

Global United Technology Services Co., Ltd.

Report No.: GTSE14030035401

FCC REPORT

Applicant: SHENZHEN GIEC ELECTRONICS CO., LTD.

Address of Applicant: 24/F, Building A Xinian Center, No. 6021 Shennan Road,

Shenzhen, Guangdong, China

Equipment Under Test (EUT)

Product Name: Tablet PC

Model No.: EM63T

FCC ID: ZVRTPCM63DUSAO01

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

Date of sample receipt: April 17, 2014

Date of Test: April 17-25, 2014

Date of report issued: April 25, 2014

Test Result: PASS *

Authorized Signature:



Robinson Lo Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the GTS product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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



2 Version

Version No.	Date	Description
00	April 25, 2014	Original

Prepared By:	hank yan.	Date:	April 25, 2014	
	Project Engineer			
Check By:	Hans. Hu	Date:	April 25, 2014	
	Reviewer			

Shenzhen, China 518102



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4 Test Summary

Test Item	Section in CFR 47	Result
Antenna requirement	15.203/15.247 (c)	Pass
AC Power Line Conducted Emission	15.207	Pass
Conducted Peak Output Power	15.247 (b)(3)	Pass
Channel Bandwidth	15.247 (a)(2)	Pass
Power Spectral Density	15.247 (e)	Pass
Band Edge	15.247(d)	Pass
Spurious Emission	15.205/15.209	Pass

Pass: The EUT complies with the essential requirements in the standard.

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5 General Information

5.1 Client Information

Applicant:	SHENZHEN GIEC ELECTRONICS CO., LTD.	
Address of Applicant:	24/F, Building A Xinian Center, No. 6021 Shennan Road, Shenzhen, Guangdong, China	
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.:	EM63T
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:	Model No.: HB10U-0501504SPA
	Input: AC 100-240V, 50/60Hz, 0.4A
	Output: DC 5V, 1500mA
	Or
	DC 3.7V Li-ion Battery



Operation Frequency each of channel								
Channel Frequency Channel Frequency Channel Frequency Channel Frequency						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

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-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

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



6 Test Instruments list

Radi	Radiated Emission:							
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)		
1	3m Semi- Anechoic Chamber	ZhongYu Electron	9.2(L)*6.2(W)* 6.4(H)	GTS250	Mar. 28 2014	Mar. 27 2015		
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A		
3	Spectrum Analyzer	Agilent	E4440A	GTS533	Dec. 5, 2013	Dec. 4, 2014		
4	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	Jul. 02 2013	Jul. 01 2014		
5	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	Feb. 23 2014	Feb. 22 2015		
6	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	9120D-829	GTS208	June 28 2013	June 27 2014		
7	Horn Antenna	ETS-LINDGREN	3160	GTS217	Mar. 28 2014	Mar. 27 2015		
8	EMI Test Software	AUDIX	E3	N/A	N/A	N/A		
9	Coaxial Cable	GTS	N/A	GTS213	Mar. 29 2014	Mar. 28 2015		
10	Coaxial Cable	GTS	N/A	GTS211	Mar. 29 2014	Mar. 28 2015		
11	Coaxial cable	GTS	N/A	GTS210	Mar. 29 2014	Mar. 28 2015		
12	Coaxial Cable	GTS	N/A	GTS212	Mar. 29 2014	Mar. 28 2015		
13	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	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. 29 2014	Mar. 28 2015		

Con	Conducted Emission:							
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)		
1	Shielding Room	ZhongYu Electron	7.0(L)x3.0(W)x3.0(H)	GTS264	Sep. 07 2013	Sep. 06 2014		
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:

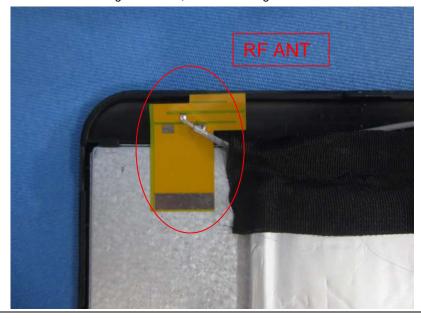
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit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





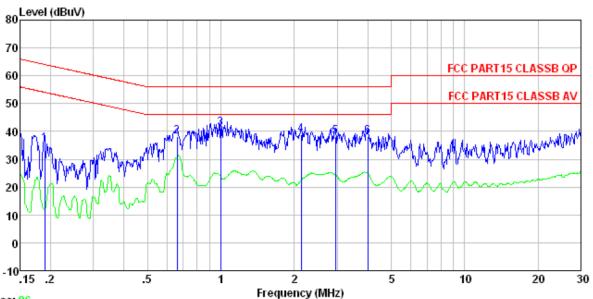
7.2 Conducted Emissions

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, Sweep 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			
-	* Decreases with the logarithm	•				
Test setup:	Reference Plane		•			
	AUX Equipment E.U.T Test table/Insulation plane Remark E.U.T Equipment Under Test LISN Line Impedence Stabilization Network Test table height=0.8m					
Test procedure:	 The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 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: 86

Condition : FCC PART15 CLASSB QP LISN-2013 LINE

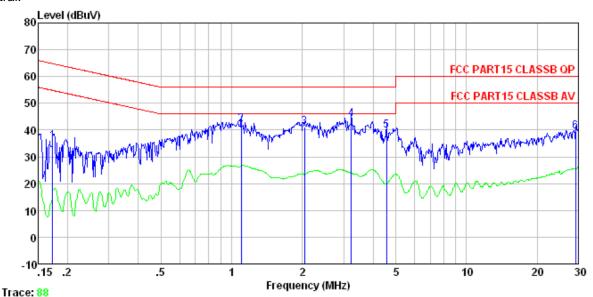
Job No. : 0354RF Test mode : WiFi mode

Test Engineer: Liu

	Freq	Read Level	Cable Loss				Remark
	MHz	dBu₹	d₿	dBu₹	dBuV	dB	
1 2 3 4 5	0. 661 1. 000 2. 133 2. 946	35. 37 38. 03 40. 98 38. 67 37. 87 37. 80	0.13 0.13 0.15 0.15	41.25 38.94	56.00 56.00 56.00 56.00	-17.70 -14.75 -17.06 -17.83	QP QP QP QP



Neutral:



Condition : FCC PART15 CLASSB QP LISN-2013 NEUTRAL

Job No. : 0354RF Test mode : WiFi mode Test Engineer: Liu

	Freq	Read Level	Cable Loss				Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1 2 3 4 5	1.100 2.044 3.241	35. 73 41. 81 40. 78 43. 91 39. 56 38. 63	0.13 0.15 0.15 0.15	35. 92 42. 02 41. 02 44. 19 39. 86 39. 58	56.00 56.00 56.00 56.00	-13.98 -14.98 -11.81 -16.14	QP QP QP QP

Notes:

- 1. An initial pre-scan was performed on the line and neutral lines with peak detector.
- 2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3. Final Level =Receiver Read level + LISN Factor + Cable Loss
- 4. If the average limit is met when using a quasi-peak detector receiver, the EUT shall be deemed to meet both limits and measurement with the average detector receiver is unnecessary.



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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 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		

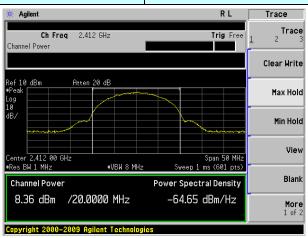
Measurement Data

Test CH		Peak Outp	ut Power (dBm)		Limit(dBm)	Result
1631 011	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	Limit(abin)	Nesuit
Lowest	8.36	7.00	6.04	3.32		Pass
Middle	8.09	7.30	6.12	3.27	30.00	
Highest	8.49	6.95	6.20	3.71		

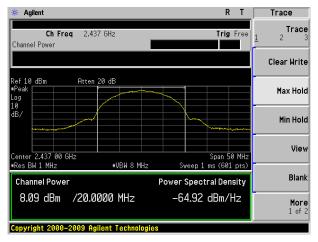


Test plot as follows:

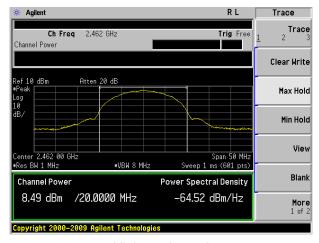
Test mode: 802.11b



Lowest channel



Middle channel

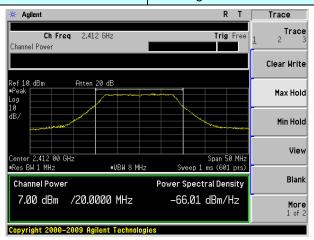


Highest channel

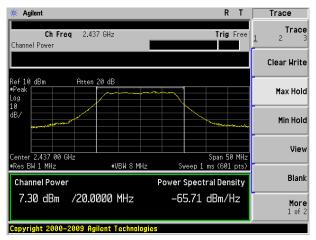
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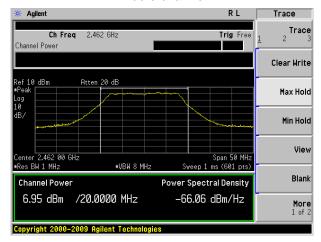
Test mode: 802.11g



Lowest channel



Middle channel



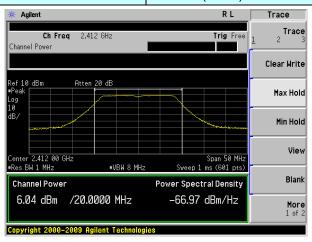
Highest channel

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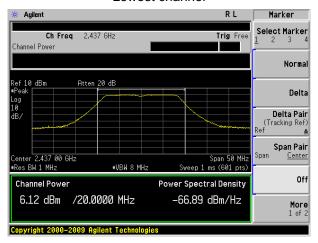


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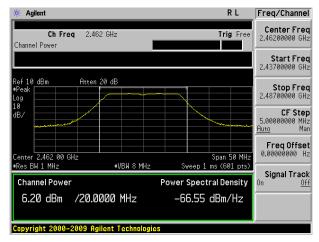
Test mode: 802.11n(HT20)



Lowest channel



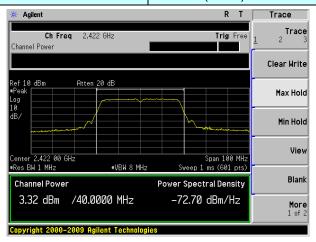
Middle channel



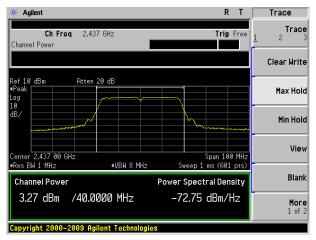
Highest channel



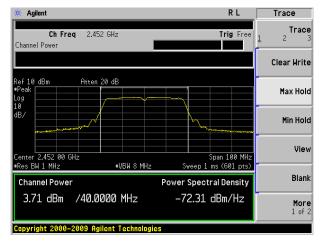
Test mode: 802.11n(HT40)



Lowest channel



Middle channel



Highest channel



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

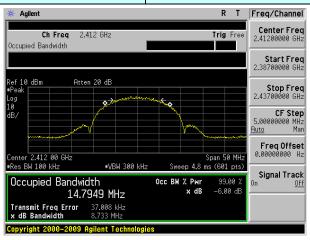
Test CH		Channel Ban	dwidth (MHz)		Limit(KHz) Result		
Test Off	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	Littit(Ki iz)	Result	
Lowest	8.733	16.628	17.847	36.462		Pass	
Middle	8.794	16.631	17.855	36.433	>500		
Highest	8.817	16.753	17.838	36.463			

Test plot as follows:

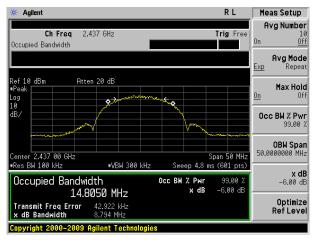
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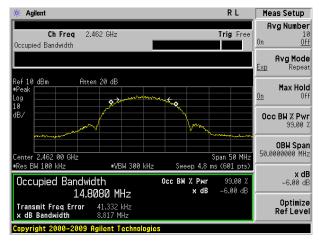
802.11b Test mode:



Lowest channel



Middle channel

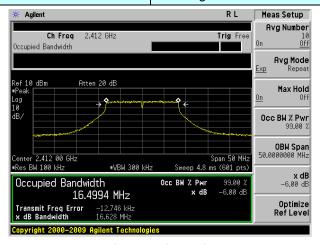


Highest channel

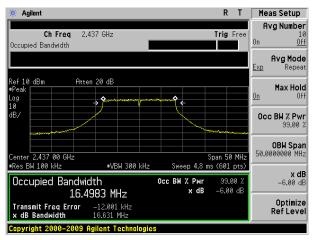


Project No.: GTSE140300354RF

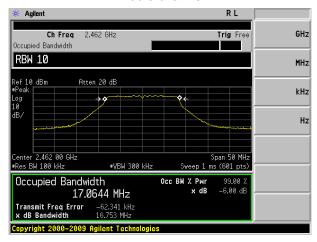
Test mode: 802.11g



Lowest channel



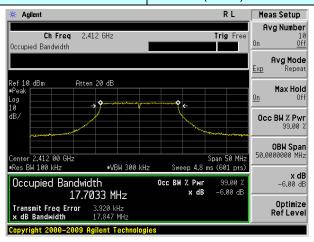
Middle channel



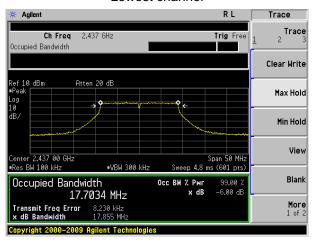
Highest channel



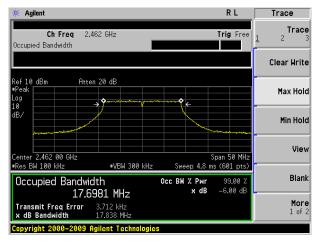
Test mode: 802.11n(HT20)



Lowest channel



Middle channel



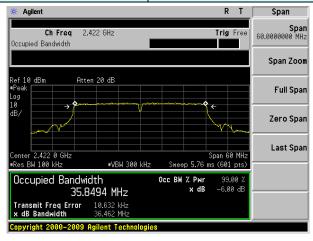
Highest channel

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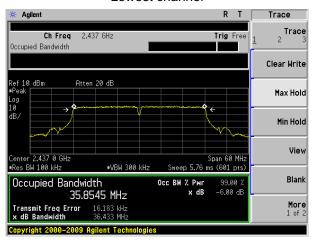


Project No.: GTSE140300354RF

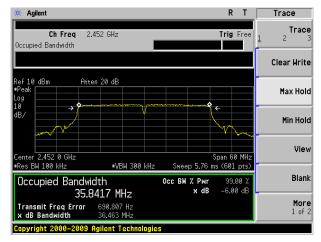
Test mode: 802.11n(HT40)



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 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	l Density (dBm)		Limit(dBm/3kHz) Re		
rest Off	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	Limit(dBm/3Km2)	Result	
Lowest	-4.44	-9.34	-11.49	-17.13		Pass	
Middle	-4.34	-8.66	-11.39	-16.60	8.00		
Highest	-3.73	-9.19	-11.68	-16.85			

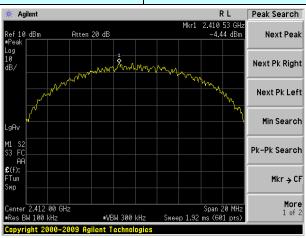
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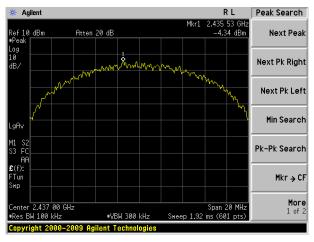
Project No.: GTSE140300354RF

Test plot as follows:

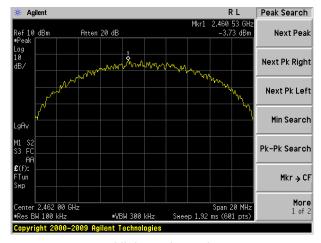
Test mode: 802.11b



Lowest channel



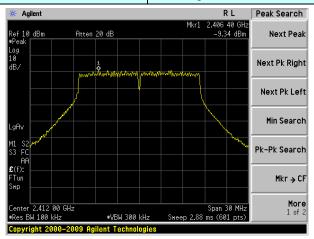
Middle channel



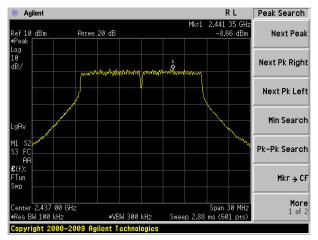
Highest channel



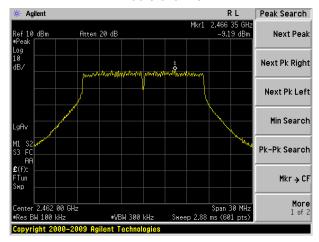
Test mode: 802.11g



Lowest channel



Middle channel

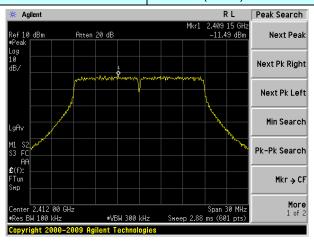


Highest channel

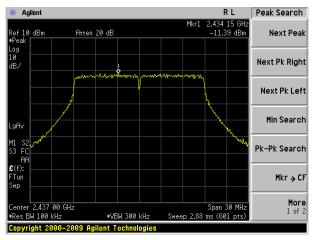
Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



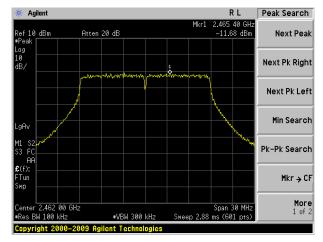
Test mode: 802.11n(HT20)



Lowest channel



Middle channel

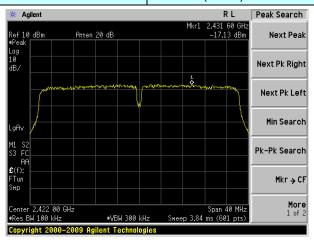


Highest channel

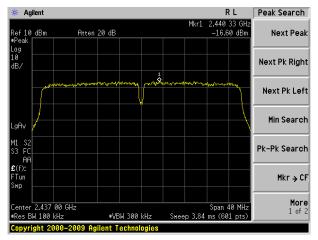
Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



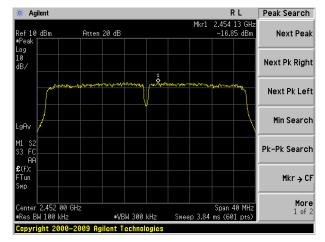
Test mode: 802.11n(HT40)



Lowest channel



Middle channel



Highest channel

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



7.6 Band edges

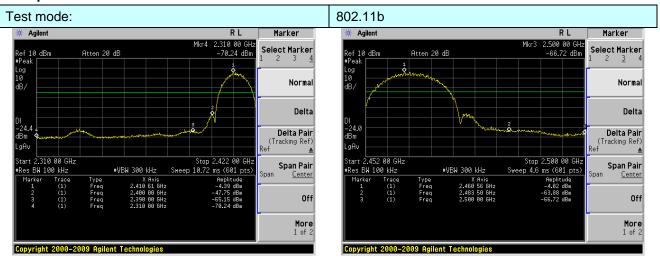
7.6.1 Conducted Emission Method

Test Requirement:	FCC Part15 C Section 15.247 (d)				
Test Method:	ANSI C63.4:2003 and KDB558074 D01 DTS Meas Guidance V03				
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.				
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane				
Test Instruments:	Refer to section 6.0 for details				
Test mode:	Refer to section 5.3 for details				
Test results:	Pass				

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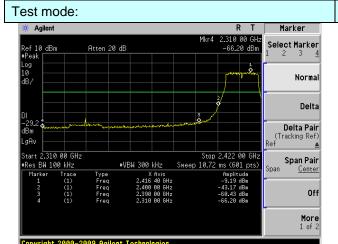


Test plot as follows:

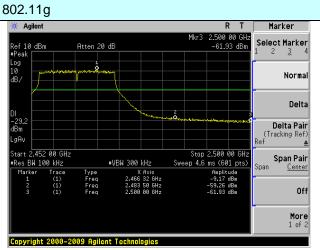


Lowest channel

Highest channel



Lowest channel



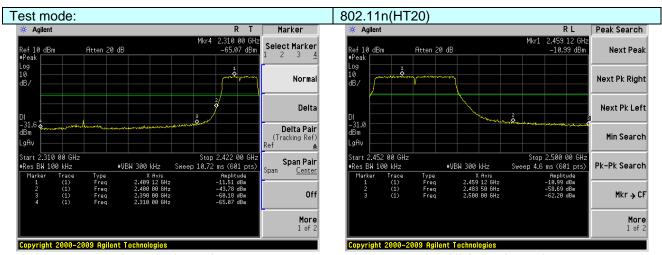
Highest channel

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Project No.: GTSE140300354RF

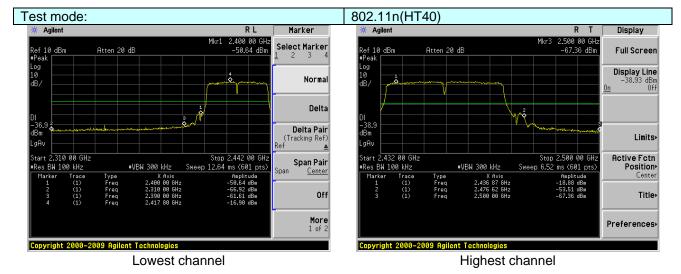
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Lowest channel

Highest channel



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7.6.2 Radiated Emission Method

T (D)	500 D 445 0 G		1.45.005			
Test Requirement:	FCC Part15 C Section 15.209 and 15.205					
Test Method:	ANSI C63.4: 20				U (00 (01 U) (
Test Frequency Range:	All of the restrict 2500MHz) data		tested, only	the worst b	and's (2310MHz to	
Test site:	Measurement D	istance: 3m				
Receiver setup:	Frequency	Detector	RBW	VBW	Value	
	Abovo 4CU=	Peak	1MHz	3MHz	Peak	
	Above 1GHz	Peak	1MHz	10Hz	Average	
Limit:	Freque	ncy	Limit (dBuV/	/m @3m)	Value	
	Above 1	CH-	54.0	0	Average	
	Above i	GHZ	74.0	0	Peak	
Test setup:	Antenna Tower Horn Antenna Spectrum Analyzer Turn Table 0.8m Im 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, quasipeak or average method as specified and then reported in a data sheet. The radiation measurements are performed in X, Y, Z axis positioning And found the Y axis positioning which it is worse case, only the test 				ated 360 degrees to ince-receiving le-height antenna in meters above the distrength. Both are set to make the ed to its worst case meter to 4 meters 0 degrees to find function and 10dB lower than and the peak values sions that did not using peak, quasi-pred in a data in Z axis positioning.	
Test Instruments:	Refer to section	6.0 for details				
Test mode:	Refer to section	5.3 for details				
Test results:	Pass					



Measurement data:

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

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

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	49.39	27.59	5.38	34.01	48.35	74.00	-25.65	Horizontal
2400.00	57.64	27.58	5.39	34.01	56.60	74.00	-17.40	Horizontal
2390.00	50.91	27.59	5.38	34.01	49.87	74.00	-24.13	Vertical
2400.00	58.83	27.58	5.39	34.01	57.79	74.00	-16.21	Vertical

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	36.80	27.59	5.38	34.01	35.76	54.00	-18.24	Horizontal
2400.00	44.85	27.58	5.39	34.01	43.81	54.00	-10.19	Horizontal
2390.00	38.44	27.59	5.38	34.01	37.40	54.00	-16.60	Vertical
2400.00	45.80	27.58	5.39	34.01	44.76	54.00	-9.24	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	49.07	27.53	5.47	33.92	48.15	74.00	-25.85	Horizontal
2500.00	45.62	27.55	5.49	29.93	48.73	74.00	-25.27	Horizontal
2483.50	50.87	27.53	5.47	33.92	49.95	74.00	-24.05	Vertical
2500.00	47.71	27.55	5.49	29.93	50.82	74.00	-23.18	Vertical

Average value:

, troinge ru								
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	36.82	27.53	5.47	33.92	35.90	54.00	-18.10	Horizontal
2500.00	33.36	27.55	5.49	29.93	36.47	54.00	-17.53	Horizontal
2483.50	38.57	27.53	5.47	33.92	37.65	54.00	-16.35	Vertical
2500.00	35.15	27.55	5.49	29.93	38.26	54.00	-15.74	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.: GTSE14030035401

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)	1 1 4041	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	48.55	27.59	5.38	34.01	47.51	74.00	-26.49	Horizontal
2400.00	56.52	27.58	5.39	34.01	55.48	74.00	-18.52	Horizontal
2390.00	50.01	27.59	5.38	34.01	48.97	74.00	-25.03	Vertical
2400.00	57.48	27.58	5.39	34.01	56.44	74.00	-17.56	Vertical
Average va	lue:							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	i Levei	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	36.20	27.59	5.38	34.01	35.16	54.00	-18.84	Horizontal
2400.00	44.16	27.58	5.39	34.01	43.12	54.00	-10.88	Horizontal
2390.00	37.77	27.59	5.38	34.01	36.73	54.00	-17.27	Vertical
2400.00	45.05	27.58	5.39	34.01	44.01	54.00	-9.99	Vertical
Test mode:		802.1	1g	1	est channel:		Highest	
Peak value:	!					_	_	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	i Levei	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	47.87	27.53	5.47	33.92	46.95	74.00	-27.05	Horizontal
2500.00	44.69	27.55	5.49	29.93	47.80	74.00	-26.20	Horizontal
2483.50	49.50	27.53	5.47	33.92	48.58	74.00	-25.42	Vertical
2500.00	46.62	27.55	5.49	29.93	49.73	74.00	-24.27	Vertical
Average va	lue:					_	•	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	1 1 20/21	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	36.10	27.53	5.47	33.92	35.18	54.00	-18.82	Horizontal
2500.00	32.79	27.55	5.49	29.93	35.90	54.00	-18.10	Horizontal
2483.50	37.77	27.53	5.47	33.92	36.85	54.00	-17.15	Vertical
2500.00	34.55	27.55	5.49	29.93	37.66	54.00	-16.34	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.: GTSE14030035401

Lowest

i est illoue.		002.1	111(11120)	10.	ot Charmer.	-	OWESI	
Peak value:	•			·				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	48.35	27.59	5.38	34.01	47.31	74.00	-26.69	Horizontal
2400.00	56.25	27.58	5.39	34.01	55.21	74.00	-18.79	Horizontal
2390.00	49.80	27.59	5.38	34.01	48.76	74.00	-25.24	Vertical
2400.00	57.16	27.58	5.39	34.01	56.12	74.00	-17.88	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	36.06	27.59	5.38	34.01	35.02	54.00	-18.98	Horizontal
2400.00	44.00	27.58	5.39	34.01	42.96	54.00	-11.04	Horizontal
2390.00	37.61	27.59	5.38	34.01	36.57	54.00	-17.43	Vertical
2400.00	44.87	27.58	5.39	34.01	43.83	54.00	-10.17	Vertical
Test mode:		802.1	1n(HT20)	Tes	st channel:	F	Highest	
Peak value:	:	1			1		ı	T
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	47.59	27.53	5.47	33.92	46.67	74.00	-27.33	Horizontal
2500.00	4.4.47				40.07	74.00	27.00	Honzoniai
	44.47	27.55	5.49	29.93	47.58	74.00	-26.42	Horizontal
2483.50	44.47	27.55 27.53	5.49 5.47	29.93 33.92				.
2483.50 2500.00					47.58	74.00	-26.42	Horizontal
	49.17 46.36	27.53	5.47	33.92	47.58 48.25	74.00 74.00	-26.42 -25.75	Horizontal Vertical
2500.00	49.17 46.36	27.53	5.47	33.92	47.58 48.25	74.00 74.00	-26.42 -25.75	Horizontal Vertical
2500.00 Average va Frequency	49.17 46.36 lue: Read Level	27.53 27.55 Antenna Factor	5.47 5.49 Cable Loss	33.92 29.93 Preamp Factor	47.58 48.25 49.47 Level	74.00 74.00 74.00 Limit Line	-26.42 -25.75 -24.53 Over Limit	Horizontal Vertical Vertical
2500.00 Average va Frequency (MHz)	49.17 46.36 lue: Read Level (dBuV)	27.53 27.55 Antenna Factor (dB/m)	5.47 5.49 Cable Loss (dB)	33.92 29.93 Preamp Factor (dB)	47.58 48.25 49.47 Level (dBuV/m)	74.00 74.00 74.00 Limit Line (dBuV/m)	-26.42 -25.75 -24.53 Over Limit (dB)	Horizontal Vertical Vertical Polarization
2500.00 Average va Frequency (MHz) 2483.50	49.17 46.36 lue: Read Level (dBuV) 35.93	27.53 27.55 Antenna Factor (dB/m) 27.53	5.47 5.49 Cable Loss (dB) 5.47	33.92 29.93 Preamp Factor (dB) 33.92	47.58 48.25 49.47 Level (dBuV/m) 35.01	74.00 74.00 74.00 Limit Line (dBuV/m) 54.00	-26.42 -25.75 -24.53 Over Limit (dB) -18.99	Horizontal Vertical Vertical Polarization Horizontal

Test channel:

802.11n(HT20)

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:

Report No.: GTSE14030035401

Lowest

Peak value	:	<u>'</u>		,		•		
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	48.03	27.59	5.38	34.01	46.99	74.00	-27.01	Horizontal
2400.00	55.82	27.58	5.39	34.01	54.78	74.00	-19.22	Horizontal
2390.00	49.45	27.59	5.38	34.01	48.41	74.00	-25.59	Vertical
2400.00	56.64	27.58	5.39	34.01	55.60	74.00	-18.40	Vertical
Average va	lue:							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	35.83	27.59	5.38	34.01	34.79	54.00	-19.21	Horizontal
2400.00	43.73	27.58	5.39	34.01	42.69	54.00	-11.31	Horizontal
2390.00	37.36	27.59	5.38	34.01	36.32	54.00	-17.68	Vertical
2400.00	44.58	27.58	5.39	34.01	43.54	54.00	-10.46	Vertical
Test mode:		802.1	1n(HT40)	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	47.13	27.53	5.47	33.92	46.21	74.00	-27.79	Horizontal
2500.00	44.11	27.55	5.49	29.93	47.22	74.00	-26.78	Horizontal
2483.50	48.64	27.53	5.47	33.92	47.72	74.00	-26.28	Vertical
2500.00	45.94	27.55	5.49	29.93	49.05	74.00	-24.95	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	35.65	27.53	5.47	33.92	34.73	54.00	-19.27	Horizontal
2500.00	32.44	27.55	5.49	29.93	35.55	54.00	-18.45	Horizontal
2483.50	37.27	27.53	5.47	33.92	36.35	54.00	-17.65	Vertical
2500.00	34.18	27.55	5.49	29.93	37.29	54.00	-16.71	Vertical

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

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7.7 Spurious Emission

7.7.1 Conducted Emission Method

Test Requirement:	FCC Part15 C Section 15.247 (d)				
Test Method:	ANSI C63.4:2003 and KDB558074 D01 DTS Meas Guidance V03				
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.				
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane				
Test Instruments:	Refer to section 6.0 for details				
Test mode:	Refer to section 5.3 for details				
Test results:	Pass				

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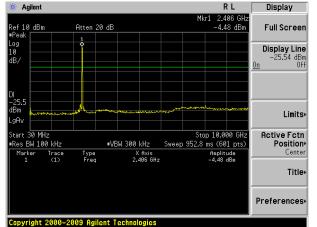


Test plot as follows:

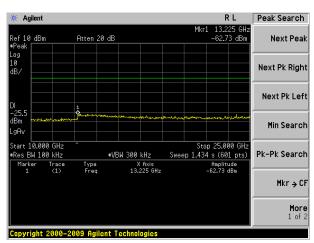
Test mode:

802.11b

Lowest channel

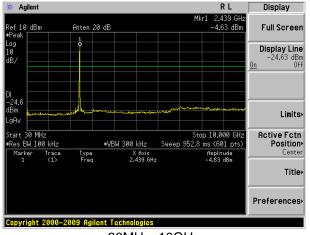


30MHz~10GHz

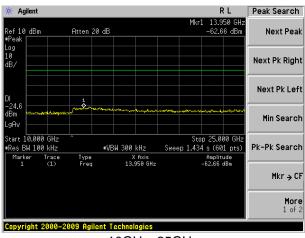


10GHz~25GHz

Middle channel

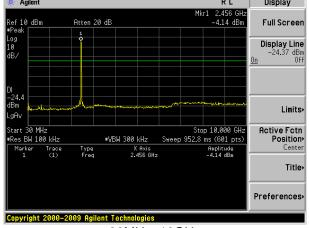


30MHz~10GHz

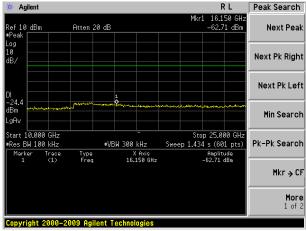


10GHz~25GHz





30MHz~10GHz



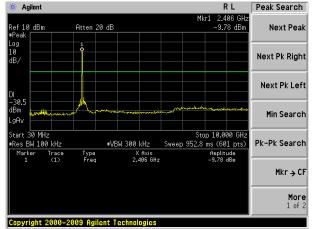
10GHz~25GHz



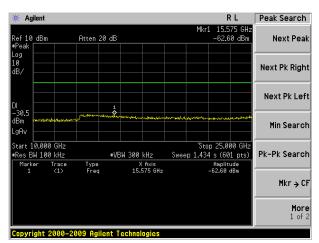
Test mode:

802.11g



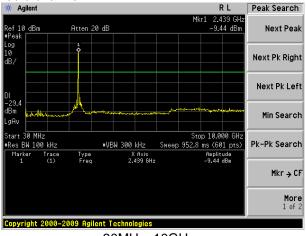


30MHz~10GHz

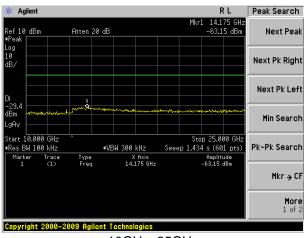


10GHz~25GHz

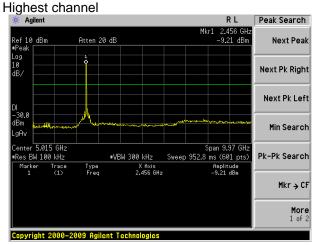
Middle channel



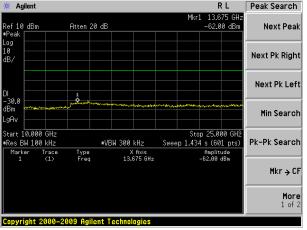
30MHz~10GHz



10GHz~25GHz



30MHz~10GHz



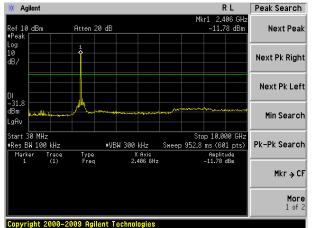
10GHz~25GHz



Test mode:

802.11n(HT20)

Lowest channel

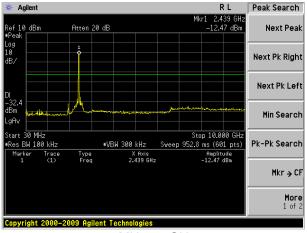


30MHz~10GHz

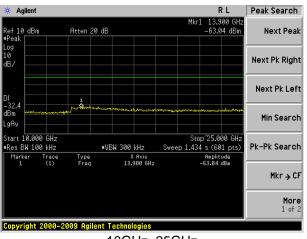
R L Peak Search 🗰 Agilent Next Peak Atten 20 dB Next Pk Right Next Pk Left Min Search Start 10.000 GHz ■Res BW 100 kHz Stop 25.000 GH: Sweep 1.434 s (601 pts) Pk-Pk Search #VBW 300 kHz Type Freq Amplitude -61.97 dBm X Axis 13.925 GHz Mkr → CF More 1 of 2 Copyright 2000-2009 Agilent Technologies

10GHz~25GHz

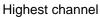
Middle channel

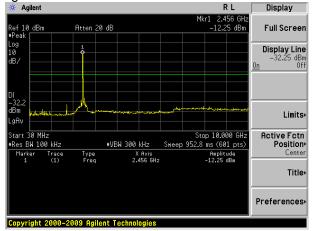


30MHz~10GHz

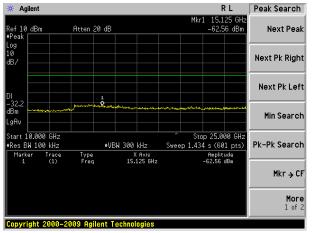


10GHz~25GHz





30MHz~10GHz



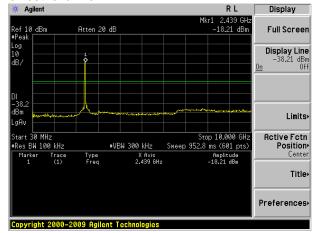
10GHz~25GHz



Test mode:

802.11n(HT40)

Lowest channel

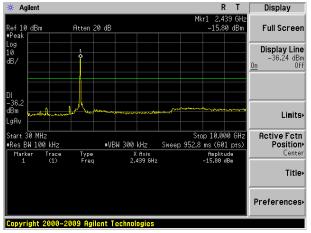


30MHz~10GHz

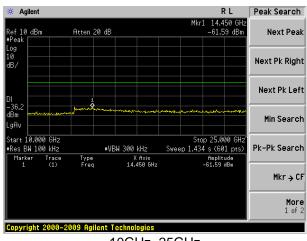
🔆 Agilent R T Peak Search Atten 20 dB Next Peak Next Pk Right Next Pk Left Min Search Stop 25.000 GH Sweep 1.434 s (601 pts) ■Res BW 100 kHz #VBW 300 kHz Pk-Pk Search X Axis 15.075 GHz Amplitude -62.22 dBm Mkr → CF More 1 of 2 Copyright 2000-2009 Agilent Technologies

10GHz~25GHz

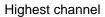
Middle channel

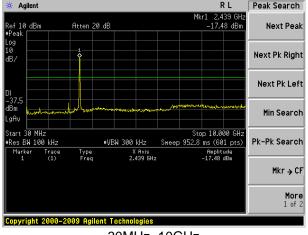


30MHz~10GHz

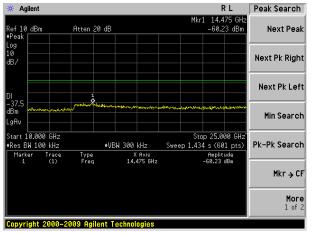


10GHz~25GHz





30MHz~10GHz



10GHz~25GHz



7.7.2 Radiated Emission Method

Test Method:	ANSI C63.4: 200										
	ANSI C03.4. 200	3									
Test Frequency Range:	30MHz to 25GHz	30MHz to 25GHz									
Test site:	Measurement Dis	Measurement Distance: 3m Frequency Detector RBW VBW Value									
Receiver setup:	Frequency										
	30MHz-1GHz										
	Above 1CHz	Above 1GHz Peak 1MHz 3MHz Pe									
	Above 1GHz	Peak	1MHz	10Hz	Average						
Limit:	Frequen	cy L	_imit (dBuV	/m @3m)	Value						
	30MHz-88	MHz	40.0	0	Quasi-peak						
	88MHz-216	6MHz	43.5	0	Quasi-peak						
	216MHz-96	216MHz-960MHz 46.00 Quasi-peak									
	960MHz-1	960MHz-1GHz 54.00 Quasi-peak									
	Above 10	`U-	54.0	0	Average						
	Above 10	סחב	74.0	0	Peak						
	Tum 7.8m 7.8m 7.8m 7.8m 7.8m 7.8m 7.8m 7.8	Above 1GHz Antenna Tower									

Global United Technology Services Co., Ltd.

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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 Y axis positioning which it is worse case, only the test worst case mode is recorded in the report.
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

Remark:

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



Measurement Data

■ Below 1GHz

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
30.00	53.68	14.33	0.55	32.06	36.50	40.00	-3.50	Vertical
53.32	44.59	15.10	0.80	31.95	28.54	40.00	-11.46	Vertical
83.82	52.91	11.87	1.06	31.74	34.10	40.00	-5.90	Vertical
132.22	56.58	10.77	1.45	31.91	36.89	43.50	-6.61	Vertical
203.52	47.54	12.67	1.86	32.14	29.93	43.50	-13.57	Vertical
543.27	50.58	19.46	3.50	31.33	42.21	46.00	-3.79	Vertical
30.00	44.40	14.33	0.55	32.06	27.22	40.00	-12.78	Horizontal
84.11	54.92	12.02	1.06	31.74	36.26	40.00	-3.74	Horizontal
180.02	53.11	11.68	1.74	32.08	34.45	43.50	-9.05	Horizontal
287.99	48.13	14.84	2.31	32.18	33.10	46.00	-12.90	Horizontal
354.18	45.96	16.33	2.64	32.02	32.91	46.00	-13.09	Horizontal
543.27	46.72	19.46	3.50	31.33	38.35	46.00	-7.65	Horizontal

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



■ Above 1GHz

Test mode:		802.11b		Test	channel:	Lowe	st	
Peak value:						<u>'</u>		
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	37.38	31.79	8.62	32.10	45.69	74.00	-28.31	Vertical
7236.00	32.38	36.19	11.68	31.97	48.28	74.00	-25.72	Vertical
9648.00	31.40	38.07	14.16	31.56	52.07	74.00	-21.93	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	36.50	31.79	8.62	32.10	44.81	74.00	-29.19	Horizontal
7236.00	32.36	36.19	11.68	31.97	48.26	74.00	-25.74	Horizontal
9648.00	31.08	38.07	14.16	31.56	51.75	74.00	-22.25	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	26.69	31.79	8.62	32.10	35.00	54.00	-19.00	Vertical
7236.00	21.31	36.19	11.68	31.97	37.21	54.00	-16.79	Vertical
9648.00	21.80	38.07	14.16	31.56	42.47	54.00	-11.53	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	26.19	31.79	8.62	32.10	34.50	54.00	-19.50	Horizontal
7236.00	20.99	36.19	11.68	31.97	36.89	54.00	-17.11	Horizontal
9648.00	20.87	38.07	14.16	31.56	41.54	54.00	-12.46	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal
16884.00	*					54.00		Horizontal

Remark:

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

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



Test mode:		802.11b		Tes	t channel:	Midd	le	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	36.94	31.85	8.66	32.12	45.33	74.00	-28.67	Vertical
7311.00	32.77	36.37	11.71	31.91	48.94	74.00	-25.06	Vertical
9748.00	32.64	38.27	14.25	31.56	53.60	74.00	-20.40	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	37.79	31.85	8.66	32.12	46.18	74.00	-27.82	Horizontal
7311.00	31.60	36.37	11.71	31.91	47.77	74.00	-26.23	Horizontal
9748.00	32.62	38.27	14.25	31.56	53.58	74.00	-20.42	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	27.98	31.85	8.66	32.12	36.37	54.00	-17.63	Vertical
7311.00	21.13	36.37	11.71	31.91	37.30	54.00	-16.70	Vertical
9748.00	21.94	38.27	14.25	31.56	42.90	54.00	-11.10	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	28.03	31.85	8.66	32.12	36.42	54.00	-17.58	Horizontal
7311.00	20.73	36.37	11.71	31.91	36.90	54.00	-17.10	Horizontal
9748.00	22.37	38.27	14.25	31.56	43.33	54.00	-10.67	Horizontal
12185.00	*					54.00		Horizontal
14622.00	*					54.00		Horizontal
17059.00	*					54.00		Horizontal

Remark:

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

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



Test mode:		802.11b		Te	est channel:	High	est	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Pream Facto (dB)	. 6//5	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	40.72	31.90	8.70	32.15	49.17	74.00	-24.83	Vertical
7386.00	32.34	36.49	11.76	31.83	48.76	74.00	-25.24	Vertical
9848.00	35.15	38.62	14.31	31.77	56.31	74.00	-17.69	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	40.68	31.90	8.70	32.15	49.13	74.00	-24.87	Horizontal
7386.00	31.57	36.49	11.76	31.83	47.99	74.00	-26.01	Horizontal
9848.00	31.47	38.62	14.31	31.77	52.63	74.00	-21.37	Horizontal
12310.00	*					74.00		Horizontal
14772.00	*					74.00		Horizontal
17234.00	*					74.00		Horizontal
Average val								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Pream Facto (dB)	· I evel	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	31.97	31.90	8.70	32.15	40.42	54.00	-13.58	Vertical
7386.00	22.34	36.49	11.76	31.83	38.76	54.00	-15.24	Vertical
9848.00	23.73	38.62	14.31	31.77	44.89	54.00	-9.11	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	31.26	31.90	8.70	32.15	39.71	54.00	-14.29	Horizontal
7386.00	21.03	36.49	11.76	31.83	37.45	54.00	-16.55	Horizontal
9848.00	20.79	38.62	14.31	31.77	41.95	54.00	-12.05	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					54.00		Horizontal

Remark:

Shenzhen, China 518102

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

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



Test mode:		802.11g		Test	channel:	lowes	st	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	36.57	31.79	8.62	32.10	44.88	74.00	-29.12	Vertical
7236.00	31.86	36.19	11.68	31.97	47.76	74.00	-26.24	Vertical
9648.00	31.03	38.07	14.16	31.56	51.70	74.00	-22.30	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	35.82	31.79	8.62	32.10	44.13	74.00	-29.87	Horizontal
7236.00	31.91	36.19	11.68	31.97	47.81	74.00	-26.19	Horizontal
9648.00	30.74	38.07	14.16	31.56	51.41	74.00	-22.59	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	25.94	31.79	8.62	32.10	34.25	54.00	-19.75	Vertical
7236.00	20.81	36.19	11.68	31.97	36.71	54.00	-17.29	Vertical
9648.00	21.44	38.07	14.16	31.56	42.11	54.00	-11.89	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertica
4824.00	25.55	31.79	8.62	32.10	33.86	54.00	-20.14	Horizontal
7236.00	20.55	36.19	11.68	31.97	36.45	54.00	-17.55	Horizontal
9648.00	20.54	38.07	14.16	31.56	41.21	54.00	-12.79	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal
16884.00	*	_				54.00		Horizontal

Remark:

Shenzhen, China 518102

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

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



Test mode:		802.11g		Test	channel:	Midd	le	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	36.27	31.85	8.66	32.12	44.66	74.00	-29.34	Vertical
7311.00	32.34	36.37	11.71	31.91	48.51	74.00	-25.49	Vertical
9748.00	32.34	38.27	14.25	31.56	53.30	74.00	-20.70	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	37.23	31.85	8.66	32.12	45.62	74.00	-28.38	Horizontal
7311.00	31.23	36.37	11.71	31.91	47.40	74.00	-26.60	Horizontal
9748.00	32.34	38.27	14.25	31.56	53.30	74.00	-20.70	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	27.36	31.85	8.66	32.12	35.75	54.00	-18.25	Vertical
7311.00	20.72	36.37	11.71	31.91	36.89	54.00	-17.11	Vertical
9748.00	21.65	38.27	14.25	31.56	42.61	54.00	-11.39	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	27.50	31.85	8.66	32.12	35.89	54.00	-18.11	Horizontal
7311.00	20.37	36.37	11.71	31.91	36.54	54.00	-17.46	Horizontal
9748.00	22.10	38.27	14.25	31.56	43.06	54.00	-10.94	Horizontal
12185.00	*	_				54.00		Horizontal
14622.00	*					54.00		Horizontal
17059.00	*	_				54.00		Horizontal

Remark:

Shenzhen, China 518102

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

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



Test mode:		802.11g		Test	channel:	High	est	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	39.57	31.90	8.70	32.15	48.02	74.00	-25.98	Vertical
7386.00	31.61	36.49	11.76	31.83	48.03	74.00	-25.97	Vertical
9848.00	34.63	38.62	14.31	31.77	55.79	74.00	-18.21	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	39.70	31.90	8.70	32.15	48.15	74.00	-25.85	Horizontal
7386.00	30.93	36.49	11.76	31.83	47.35	74.00	-26.65	Horizontal
9848.00	30.98	38.62	14.31	31.77	52.14	74.00	-21.86	Horizontal
12310.00	*					74.00		Horizontal
14772.00	*					74.00		Horizontal
17234.00	*					74.00		Horizontal
Average val	ue:				1			
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	30.90	31.90	8.70	32.15	39.35	54.00	-14.65	Vertical
7386.00	21.64	36.49	11.76	31.83	38.06	54.00	-15.94	Vertical
9848.00	23.23	38.62	14.31	31.77	44.39	54.00	-9.61	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	30.34	31.90	8.70	32.15	38.79	54.00	-15.21	Horizontal
7386.00	20.41	36.49	11.76	31.83	36.83	54.00	-17.17	Horizontal
9848.00	20.32	38.62	14.31	31.77	41.48	54.00	-12.52	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					54.00		Horizontal

Remark:

Shenzhen, China 518102

Final Level = Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor
 "*", means this data is the too weak instrument of signal is unable to test.



Test mode:		802.11n(H	IT20)	Tes	st 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	36.11	31.79	8.62	32.10	44.42	74.00	-29.58	Vertical
7236.00	31.57	36.19	11.68	31.97	47.47	74.00	-26.53	Vertical
9648.00	30.82	38.07	14.16	31.56	51.49	74.00	-22.51	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	35.43	31.79	8.62	32.10	43.74	74.00	-30.26	Horizontal
7236.00	31.65	36.19	11.68	31.97	47.55	74.00	-26.45	Horizontal
9648.00	30.55	38.07	14.16	31.56	51.22	74.00	-22.78	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	25.52	31.79	8.62	32.10	33.83	54.00	-20.17	Vertical
7236.00	20.53	36.19	11.68	31.97	36.43	54.00	-17.57	Vertical
9648.00	21.24	38.07	14.16	31.56	41.91	54.00	-12.09	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	25.19	31.79	8.62	32.10	33.50	54.00	-20.50	Horizontal
7236.00	20.31	36.19	11.68	31.97	36.21	54.00	-17.79	Horizontal
9648.00	20.36	38.07	14.16	31.56	41.03	54.00	-12.97	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)	Te	est channel:	Midd	le	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Pream Facto (dB)		Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	35.89	31.85	8.66	32.12	44.28	74.00	-29.72	Vertical
7311.00	32.10	36.37	11.71	31.91	48.27	74.00	-25.73	Vertical
9748.00	32.17	38.27	14.25	31.56	53.13	74.00	-20.87	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	36.91	31.85	8.66	32.12	45.30	74.00	-28.70	Horizontal
7311.00	31.02	36.37	11.71	31.91	47.19	74.00	-26.81	Horizontal
9748.00	32.18	38.27	14.25	31.56	53.14	74.00	-20.86	Horizontal
12185.00	*					74.00		Horizontal
14622.00	*					74.00		Horizontal
17059.00	*					74.00		Horizontal
Average val	ue:							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Pream Facto (dB)	. 000	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	27.01	31.85	8.66	32.12	35.40	54.00	-18.60	Vertical
7311.00	20.49	36.37	11.71	31.91	36.66	54.00	-17.34	Vertical
9748.00	21.48	38.27	14.25	31.56	42.44	54.00	-11.56	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	27.20	31.85	8.66	32.12	35.59	54.00	-18.41	Horizontal
7311.00	20.16	36.37	11.71	31.91	36.33	54.00	-17.67	Horizontal
9748.00	21.95	38.27	14.25	31.56	42.91	54.00	-11.09	Horizontal
12185.00	*					54.00		Horizontal
14622.00	*					54.00		Horizontal
17059.00	*					54.00		Horizontal

Remark:

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

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



Test mode:		802.11n(H	IT20)	Test	channel:	High	est	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	38.91	31.90	8.70	32.15	47.36	74.00	-26.64	4924.00
7386.00	31.19	36.49	11.76	31.83	47.61	74.00	-26.39	7386.00
9848.00	34.33	38.62	14.31	31.77	55.49	74.00	-18.51	9848.00
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	39.15	31.90	8.70	32.15	47.60	74.00	-26.40	Horizontal
7386.00	30.57	36.49	11.76	31.83	46.99	74.00	-27.01	Horizontal
9848.00	30.71	38.62	14.31	31.77	51.87	74.00	-22.13	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	30.30	31.90	8.70	32.15	38.75	54.00	-15.25	Vertical
7386.00	21.24	36.49	11.76	31.83	37.66	54.00	-16.34	Vertical
9848.00	22.94	38.62	14.31	31.77	44.10	54.00	-9.90	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	29.82	31.90	8.70	32.15	38.27	54.00	-15.73	Horizontal
7386.00	20.06	36.49	11.76	31.83	36.48	54.00	-17.52	Horizontal
9848.00	20.06	38.62	14.31	31.77	41.22	54.00	-12.78	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(HT40)			Test o	channel:		Lowe	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
4844.00	35.26	31.81	8.63	32.11		43.59	74.00		-30.41	Vertical
7266.00	31.04	36.28	11.69	31.94		47.07	74.00		-26.93	Vertical
9688.00	30.44	38.13	14.21	31.52		51.26	74.00		-22.74	Vertical
12060.00	*						74.0	00		Vertical
14472.00	*						74.0	00		Vertical
16884.00	*						74.0	00		Vertical
4844.00	34.71	31.81	8.63	32.11		43.04	74.0	00	-30.96	Horizontal
7266.00	31.18	36.28	11.69	31.94		47.21	74.0	00	-26.79	Horizontal
9688.00	30.19	38.13	14.21	31.52		51.01	74.0	00	-22.99	Horizontal
12060.00	*						74.0	00		Horizontal
14472.00	*						74.0	00		Horizontal
16884.00	*						74.0	00		Horizontal

Average value:

Average var								
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	24.74	31.81	8.63	32.11	33.07	54.00	-20.93	Vertical
7266.00	20.01	36.28	11.69	31.94	36.04	54.00	-17.96	Vertical
9688.00	20.88	38.13	14.21	31.52	41.70	54.00	-12.30	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4844.00	24.51	31.81	8.63	32.11	32.84	54.00	-21.16	Horizontal
7266.00	19.85	36.28	11.69	31.94	35.88	54.00	-18.12	Horizontal
9688.00	20.02	38.13	14.21	31.52	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.



Test mode:		802.11n(H	IT40)		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	35.19	31.85	8.66	32.12		43.58	74.00		-30.42	Vertical
7311.00	31.66	36.37	11.71	31.91		47.83	74.0	00	-26.17	Vertical
9748.00	31.85	38.27	14.25	31.56		52.81	74.0	00	-21.19	Vertical
12185.00	*						74.00			Vertical
14622.00	*						74.00			Vertical
17059.00	*						74.00			Vertical
4874.00	36.31	31.85	8.66	32	.12	44.70	74.00		-29.30	Horizontal
7311.00	30.63	36.37	11.71	31	.91	46.80	74.00		-27.20	Horizontal
9748.00	31.89	38.27	14.25	31.56		52.85	74.00		-21.15	Horizontal
12185.00	*						74.00			Horizontal
14622.00	*						74.0	00		Horizontal
17059.00	*						74.0	00		Horizontal
Average val										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Fa	amp ctor IB)	Level (dBuV/m)	Limit (dBu\		Over Limit (dB)	polarization
4874.00	26.37	31.85	8.66	32	.12	34.76	54.0	00	-19.24	Vertical
7311.00	20.06	36.37	11.71	31	.91	36.23	54.0	00	-17.77	Vertical
9748.00	21.18	38.27	14.25	31	.56	42.14	54.0	00	-11.86	Vertical
12185.00	*						54.0	00		Vertical
14622.00	*						54.0	00		Vertical
17059.00	*						54.0	00		Vertical
4874.00	26.64	31.85	8.66	32	.12	35.03	54.0	00	-18.97	Horizontal
7311.00	19.79	36.37	11.71	31.91		35.96	54.0	00	-18.04	Horizontal
9748.00	21.66	38.27	14.25	31	.56	42.62	54.0	00	-11.38	Horizontal
12185.00	*						54.0	00		Horizontal
14622.00	*						54.0	00		Horizontal
17059.00	*						54.0	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	IT40)	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	37.70	31.88	8.68	32.13	46.13	74.00	-27.87	Vertical
7356.00	30.43	36.45	11.75	31.86	46.77	74.00	-27.23	Vertical
9808.00	33.79	38.43	14.29	31.68	54.83	74.00	-19.17	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4904.00	38.13	31.88	8.68	32.13	46.56	74.00	-27.44	Horizontal
7356.00	29.90	36.45	11.75	31.86	46.24	74.00	-27.76	Horizontal
9808.00	30.21	38.43	14.29	31.68	51.25	74.00	-22.75	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	29.18	31.88	8.68	32.13	37.61	54.00	-16.39	Vertical
7356.00	20.50	36.45	11.75	31.86	36.84	54.00	-17.16	Vertical
9808.00	22.42	38.43	14.29	31.68	43.46	54.00	-10.54	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4904.00	28.86	31.88	8.68	32.13	37.29	54.00	-16.71	Horizontal
7356.00	19.41	36.45	11.75	31.86	35.75	54.00	-18.25	Horizontal
9808.00	19.58	38.43	14.29	31.68	40.62	54.00	-13.38	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					54.00		Horizontal

Remark:

Shenzhen, China 518102

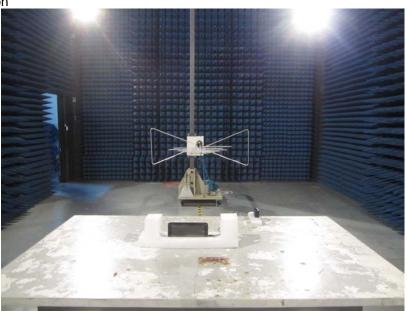
¹ Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

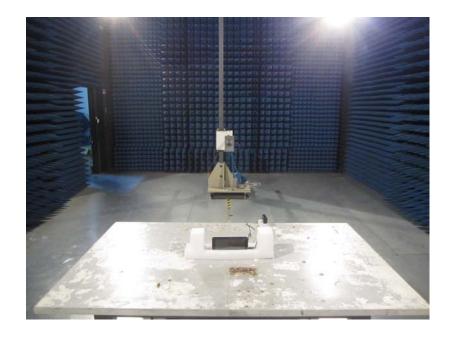
^{2 &}quot;*", means this data is the too weak instrument of signal is unable to test.



8 Test Setup Photo

Radiated Emission







Conducted Emission



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



9 EUT Constructional Details











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





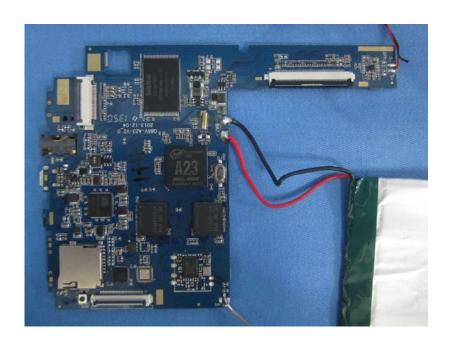


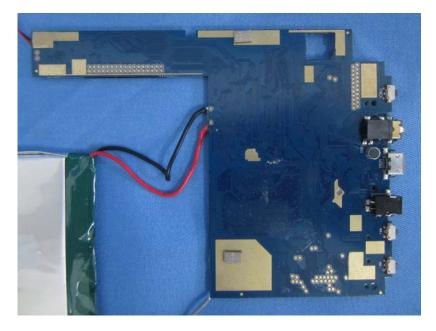


















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