

Global United Technology Services Co., Ltd.

Report No.: GTSE13120202801

FCC REPORT

Applicant: Connect One Ltd.

Address of Applicant: 20 Atir Yeda Street, Kfar Saba 44643 Israel

Equipment Under Test (EUT)

Product Name: C1 Wireless b/g baseband

Model No.: MDLWMGMR09

FCC ID: XM5-MDLWMGMR09

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

Date of sample receipt: January 06, 2014

Date of Test: January 06-13, 2014

Date of report issued: January 14, 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.

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	January 14, 2014	Original

Prepared By:	hank. yan	Date:	January 14, 2014	
	Project Engineer			
Check By:	Hams. Hu	Date:	January 14, 2014	
	Reviewer	<u> </u>		

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

Page 2 of 42



3 Contents

			Page
1	COV	/ER PAGE	1
2	VER	SION	2
3	CON	ITENTS	3
4	TES	PAGE	
5	GEN	IERAL INFORMATION	5
	5.1		
	5.2		
	5.3		-
	5.4		
	5.5		
	5.6	TEST LOCATION	7
6	TES	T INSTRUMENTS LIST	8
7	TES	T RESULTS AND MEASUREMENT DATA	9
	7.1	ANTENNA REQUIREMENT:	9
	7.2		
	7.3		
	7.4		
	7.5		
	7.6		
	7.6.		
	7.6.2		
	7.7		
	7.7.1		
	7.7.2		
8	TES	T SETUP PHOTO	39
9	EUT	CONSTRUCTIONAL DETAILS	41

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:	Connect One Ltd.
Address of Applicant:	20 Atir Yeda Street, Kfar Saba 44643 Israel
Manufacturer/Factory:	Connect One Ltd.
Address of Manufacturer/ Factory:	20 Atir Yeda Street, Kfar Saba 44643 Israel

5.2 General Description of EUT

Product Name:	C1 Wireless b/g baseband
Model No.:	MDLWMGMR09
Operation Frequency:	2412MHz~2462MHz (802.11b/802.11g)
Channel numbers:	11 for 802.11b/802.11g
Channel separation:	5MHz
Modulation technology: (IEEE 802.11b)	Direct Sequence Spread Spectrum (DSSS)
Modulation technology: (IEEE 802.11g)	Orthogonal Frequency Division Multiplexing(OFDM)
Antenna Type:	Dedicated Antenna
Antenna gain:	2.0dBi (declare by Applicant)
Power supply:	D.C 3.3V



Operation Frequency each of channel							
Channel	Frequency	Channel	Channel	Frequency	Channel	Frequency	
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz
3	2422MHz	6	2437MHz	9	2452MHz		

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

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

5.3 Test mode

Transmitting mode Keep the EUT in continuously transmitting mode	T 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	
Data rate	1Mbps	6Mbps	

5.4 Description of Support Units

Manufacturer	nufacturer Description Model Ser		Serial Number	FCC ID/DoC
IBM	Notebook	T42	GTS209	DoC
IBM	AC Adapter	92P1024	N/A	DoC

Shenzhen, China 518102



5.5 Test Facility

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

CNAS —Registration No.: CNAS L5775

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

• FCC —Registration No.: 600491

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

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

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

5.6 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

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

China

Tel: 0755-27798480 Fax: 0755-27798960

Global United Technology Services Co., Ltd. 2nd Floor, Block No.2, Laodong Industrial Zone, Xixiang Road Baoan District, Shenzhen, China 518102



6 Test Instruments list

Rad	Radiated Emission:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)	
1	3m Semi- Anechoic Chamber	ZhongYu Electron	9.2(L)*6.2(W)* 6.4(H)	GTS250	Mar. 29 2013	Mar. 28 2014	
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A	
3	Spectrum Analyzer	Agilent	E4440A	GTS533	Dec. 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. 24 2013	Feb. 23 2014	
6	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	9120D-829	GTS208	June 28 2013	June 27 2014	
7	Horn Antenna	ETS-LINDGREN	3160	GTS217	Mar. 29 2013	Mar. 28 2014	
8	EMI Test Software	AUDIX	E3	N/A	N/A	N/A	
9	Coaxial Cable	GTS	N/A	GTS213	Mar. 30 2013	Mar. 29 2014	
10	Coaxial Cable	GTS	N/A	GTS211	Mar. 30 2013	Mar. 29 2014	
11	Coaxial cable	GTS	N/A	GTS210	Mar. 30 2013	Mar. 29 2014	
12	Coaxial Cable	GTS	N/A	GTS212	Mar. 30 2013	Mar. 29 2014	
13	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	Jul. 02 2013	Jul. 01 2014	
14	Amplifier(2GHz-20GHz)	HP	8349B	GTS206	Jul. 02 2013	Jul. 01 2014	
15	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June 28 2013	June 27 2014	
16	Band filter	Amindeon	82346	GTS219	Mar. 30 2013	Mar. 29 2014	

Con	Conducted Emission:					
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	Shielding Room	ZhongYu Electron	7.0(L)x3.0(W)x3.0(H)	GTS264	Sep. 07 2013	Sep. 06 2015
2	EMI Test Receiver	Rohde & Schwarz	ESCS30	GTS223	Jul. 02 2013	Jul. 01 2014
3	10dB Pulse Limita	Rohde & Schwarz	N/A	GTS224	Jul. 02 2013	Jul. 01 2014
4	Coaxial Switch	ANRITSU CORP	MP59B	GTS225	Jul. 02 2013	Jul. 01 2014
5	LISN	SCHWARZBECK MESS-ELEKTRONIK	NSLK 8127	GTS226	Jul. 02 2013	Jul. 01 2014
6	Coaxial Cable	GTS	N/A	GTS227	Jul. 02 2013	Jul. 01 2014
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A

Gen	General used equipment:					
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	Barometer	ChangChun	DYM3	GTS257	July 09 2013	July 08 2014



Test results and Measurement Data 7

7.1 Antenna requirement:

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

15.203 requirement:

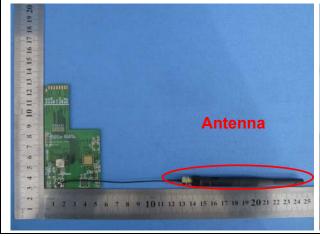
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit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





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



7.2 Conducted Emissions

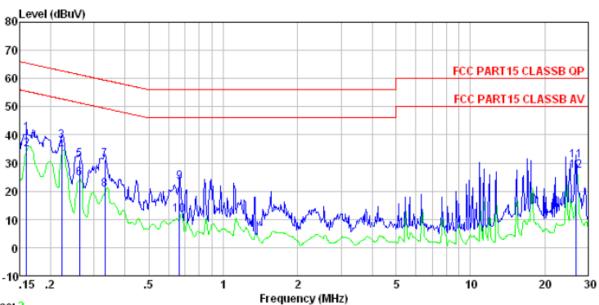
Test Requirement:	FCC Part15 C Section 15.207	,		
Test Method:	ANSI C63.4:2003			
Test Frequency Range:	150KHz to 30MHz			
Class / Severity:	Class B			
Receiver setup:	RBW=9KHz, VBW=30KHz, Sv	weep time=auto		
Limit:	Frequency range (MHz)	Limit (c	lBuV)	
		Quasi-peak	Average	
	0.15-0.5	66 to 56*	56 to 46*	
	0.5-5	56	46	
	5-30	60	50	
	* Decreases with the logarithm	n of the frequency.		
Test setup:	Reference Plane		•	
	AUX Equipment E.U.T Test table/Insulation plane Remark: E.U.T. Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m	Filter — AC pow	ver	
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			

Shenzhen, China 518102



Measurement data

Line:



Trace: 2

: FCC PART15 CLASSB QP LISN-2013 LINE

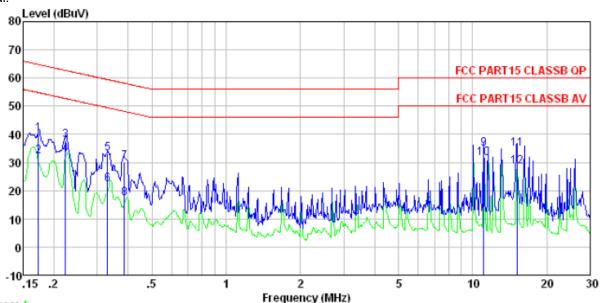
Condition : FCC PART1: Job No. : 2028RF Test mode : WiFi mode

Test Engineer: Bing

	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	d₿	d₿	dBuV	dBuV	dB	
1 2 3 4 5 6 7 8 9 10 11	0.160 0.160 0.222 0.222 0.262 0.332 0.332 0.665 0.665	40. 34 34. 61 37. 67 33. 92 31. 03 24. 26 31. 02 20. 24 22. 94 11. 21 29. 62	0.15 0.15 0.13 0.13 0.11 0.11 0.11 0.11 0.14 0.14	0.12 0.12 0.12 0.12 0.11 0.11 0.10 0.10	40. 61 34. 88 37. 92 34. 17 31. 25 24. 48 31. 23 20. 45 23. 21 11. 48 30. 86	55. 47 62. 74 52. 74 61. 38 51. 38 59. 40 49. 40 56. 00 46. 00	-24. 82 -18. 57 -30. 13 -26. 90 -28. 17 -28. 95 -32. 79	Average QP Average QP Average QP Average QP Average
12	26.841	25.86	1.01	0. 23	27.10			Average



Neutral:



Trace: 4

Condition : FCC PART15 CLASSB QP LISN-2013 NEUTRAL

Job No. : 2028RF Test mode : WiFi mode Test Engineer: Bing

	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1 2 3 4 5 6 7 8 9	0. 173 0. 173 0. 223 0. 223 0. 330 0. 330 0. 387 0. 387 11. 080	39. 91 32. 11 37. 60 32. 78 32. 91 22. 07 29. 93 17. 09 34. 39	0. 07 0. 07 0. 06 0. 06 0. 06 0. 06 0. 06 0. 06 0. 29	0.12 0.12 0.12 0.12 0.10 0.10 0.11 0.11	40. 10 32. 30 37. 78 32. 96 33. 07 22. 23 30. 10 17. 26 34. 88	54. 81 62. 70 52. 70 59. 44 49. 44 58. 12 48. 12	-24. 92 -19. 74 -26. 37 -27. 21 -28. 02	Average QP Average QP Average QP Average
10 11 12	11. 080 15. 146 15. 146	30. 87 34. 40 27. 96	0. 29 0. 33 0. 33	0.20	31.36 34.95 28.51	50.00 60.00	-18.64 -25.05	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



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	

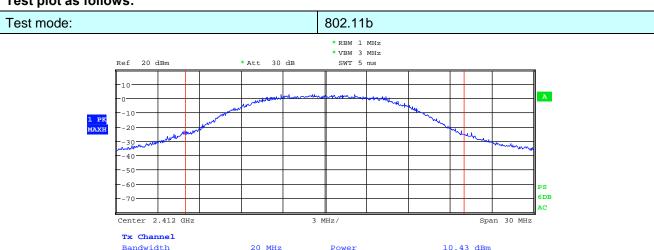
Measurement Data

Test CH	Peak Outp	Limit(dBm)	Result	
1631 011	802.11b	802.11g	Limit(abin)	Nesult
Lowest	10.43	11.51		
Middle	11.20	11.49	30.00	Pass
Highest	11.45	11.68		

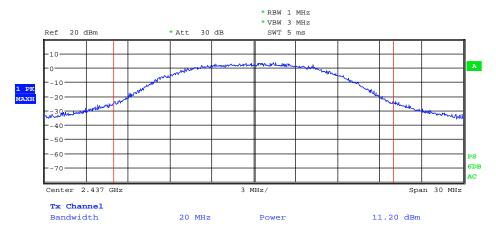
Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



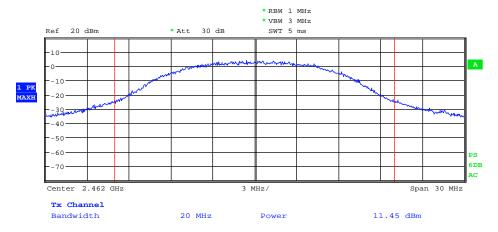
Test plot as follows:



Lowest channel

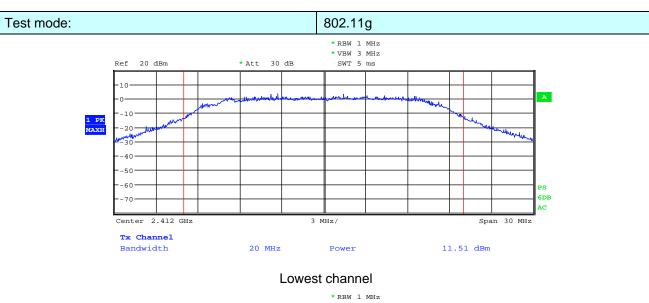


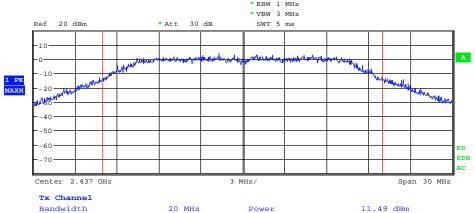
Middle channel



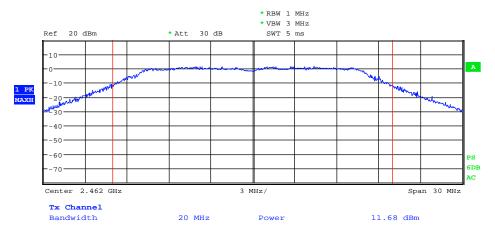
Highest channel







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

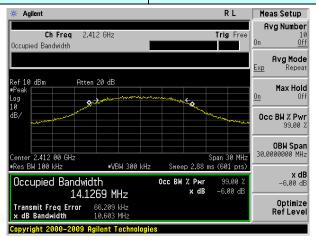
Test CH	Channel B	Limit(KHz)	Result	
	802.11b	802.11g	Littil(IXI IZ)	rvesuit
Lowest	10.603	16.400		
Middle	11.026	16.394	>500	Pass
Highest	10.147	16.449		

Test plot as follows:

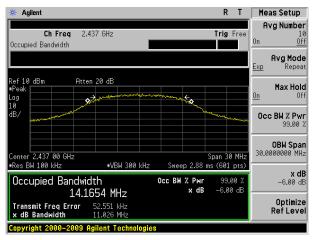
Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



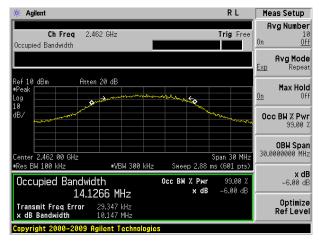
Test mode: 802.11b



Lowest channel



Middle channel

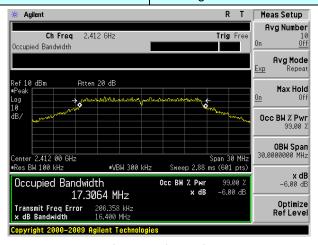


Highest channel

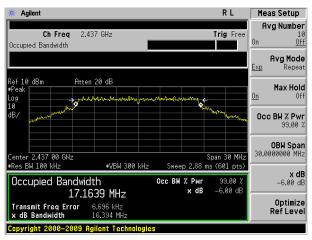
Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



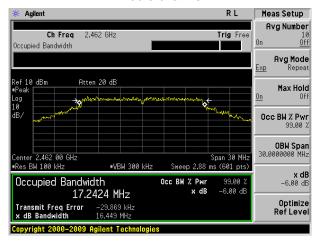
Test mode: 802.11g



Lowest channel



Middle channel



Highest channel

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



7.5 Power Spectral Density

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

Measurement Data

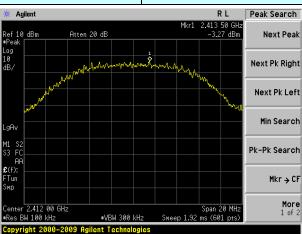
Test CH	Power Spectral Density (dBm)		Limit(dBm/3kHz)	Result
	802.11b	802.11g	LIIIII(UBIII/3KHZ)	Nesuit
Lowest	-3.27	-3.21		
Middle	-0.53	-3.20	8.00	Pass
Highest	-1.23	-2.74		

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

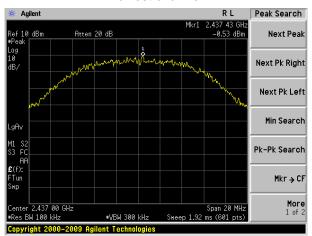


Test plot as follows:

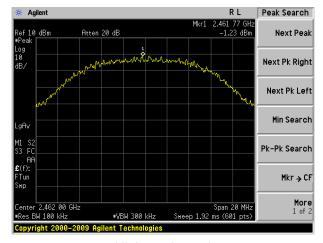
Test mode: 802.11b



Lowest channel



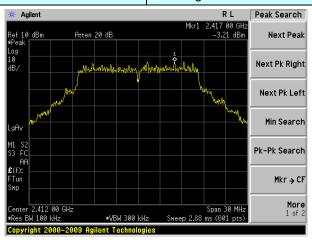
Middle channel



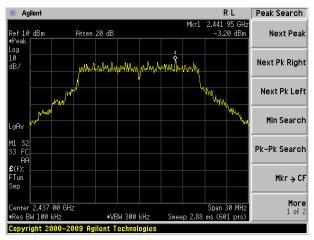
Highest channel



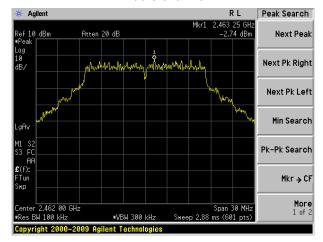
Test mode: 802.11g



Lowest channel



Middle channel



Highest channel

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



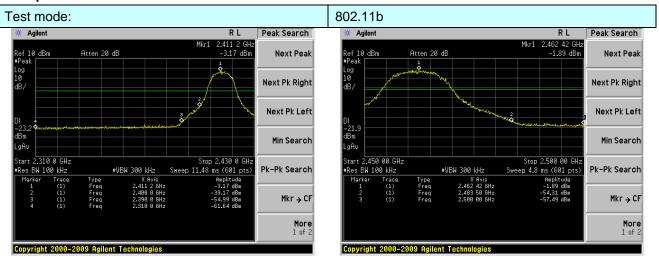
7.6 Band edges

7.6.1 Conducted Emission Method

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

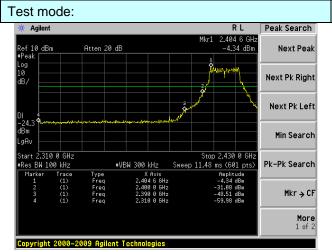


Test plot as follows:



Lowest channel

Highest channel



Lowest channel



Highest channel

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: 20	03				
Test Frequency Range:	All of the restrict 2500MHz) data		tested, only	the worst b	pand's (2310MHz to	
Test site:	Measurement D					
Receiver setup:	Frequency	Detector	RBW	VBW	Value	
·		Peak	1MHz	3MHz	Peak	
	Above 1GHz	Peak	1MHz	10Hz	Average	
Limit:	Freque		Limit (dBuV	/m @3m)	Value	
			54.0	•	Average	
	Above 1	GHZ	74.0	0	Peak	
Test setup:	Antenna Tower Horn Antenna Spectrum Analyzer Turn Table Amplifier					
Test Procedure:	Turn 0.8m lm					
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
root modo.	002.110	1 oot onamion.	LOWOOL

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	48.29	27.59	5.38	30.18	51.08	74.00	-22.92	Horizontal
2400.00	56.18	27.58	5.39	30.18	58.97	74.00	-15.03	Horizontal
2390.00	49.74	27.59	5.38	30.18	52.53	74.00	-21.47	Vertical
2400.00	57.07	27.58	5.39	30.18	59.86	74.00	-14.14	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	36.02	27.59	5.38	30.18	38.81	54.00	-15.19	Horizontal
2400.00	43.95	27.58	5.39	30.18	46.74	54.00	-7.26	Horizontal
2390.00	37.57	27.59	5.38	30.18	40.36	54.00	-13.64	Vertical
2400.00	44.82	27.58	5.39	30.18	47.61	54.00	-6.39	Vertical

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

Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	47.51	27.53	5.47	29.93	50.58	74.00	-23.42	Horizontal
2500.00	44.41	27.55	5.49	29.93	47.52	74.00	-26.48	Horizontal
2483.50	49.08	27.53	5.47	29.93	52.15	74.00	-21.85	Vertical
2500.00	46.29	27.55	5.49	29.93	49.40	74.00	-24.60	Vertical

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	35.88	27.53	5.47	29.93	38.95	54.00	-15.05	Horizontal
2500.00	32.62	27.55	5.49	29.93	35.73	54.00	-18.27	Horizontal
2483.50	37.52	27.53	5.47	29.93	40.59	54.00	-13.41	Vertical
2500.00	34.37	27.55	5.49	29.93	37.48	54.00	-16.52	Vertical

Remark:

- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Global United Technology Services Co., Ltd.

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

Shenzhen, China 518102



802.11g

Test mode:

Report No.: GTSE13120202801

Lowest

	:							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	49.45	27.59	5.38	30.18	52.24	74.00	-21.76	Horizontal
2400.00	57.72	27.58	5.39	30.18	60.51	74.00	-13.49	Horizontal
2390.00	50.98	27.59	5.38	30.18	53.77	74.00	-20.23	Vertical
2400.00	58.93	27.58	5.39	30.18	61.72	74.00	-12.28	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	36.84	27.59	5.38	30.18	39.63	54.00	-14.37	Horizontal
2400.00	44.90	27.58	5.39	30.18	47.69	54.00	-6.31	Horizontal
2390.00	38.49	27.59	5.38	30.18	41.28	54.00	-12.72	Vertical
2400.00	45.86	27.58	5.39	30.18	48.65	54.00	-5.35	Vertical
Test mode:		802.1	1g	Tes	st channel:	F	lighest	
Peak value	:							
_	Read	Antenna	Cable	Preamp		1.1	Over	
Frequency (MHz)	Level (dBuV)	Factor (dB/m)	Loss (dB)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Limit (dB)	Polarization
							Limit	Polarization Horizontal
(MHz)	(dBuV)	(dB/m)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	Limit (dB)	
(MHz) 2483.50	(dBuV) 49.16	(dB/m) 27.53	(dB) 5.47	(dB) 29.93	(dBuV/m) 52.23	(dBuV/m) 74.00	Limit (dB) -21.77	Horizontal
(MHz) 2483.50 2500.00	(dBuV) 49.16 45.69	(dB/m) 27.53 27.55	(dB) 5.47 5.49	(dB) 29.93 29.93	(dBuV/m) 52.23 48.80	74.00 74.00	Limit (dB) -21.77 -25.20	Horizontal Horizontal
(MHz) 2483.50 2500.00 2483.50	(dBuV) 49.16 45.69 50.97 47.79	(dB/m) 27.53 27.55 27.53	(dB) 5.47 5.49 5.47	(dB) 29.93 29.93 29.93	(dBuV/m) 52.23 48.80 54.04	74.00 74.00 74.00 74.00	Limit (dB) -21.77 -25.20 -19.96	Horizontal Horizontal Vertical
(MHz) 2483.50 2500.00 2483.50 2500.00	(dBuV) 49.16 45.69 50.97 47.79	(dB/m) 27.53 27.55 27.53	(dB) 5.47 5.49 5.47	(dB) 29.93 29.93 29.93	(dBuV/m) 52.23 48.80 54.04	74.00 74.00 74.00 74.00	Limit (dB) -21.77 -25.20 -19.96	Horizontal Horizontal Vertical
(MHz) 2483.50 2500.00 2483.50 2500.00 Average va	(dBuV) 49.16 45.69 50.97 47.79 Iue: Read Level	(dB/m) 27.53 27.55 27.53 27.55 Antenna Factor	(dB) 5.47 5.49 5.47 5.49 Cable Loss	(dB) 29.93 29.93 29.93 29.93 Preamp Factor	(dBuV/m) 52.23 48.80 54.04 50.90 Level	(dBuV/m) 74.00 74.00 74.00 74.00 Limit Line	Limit (dB) -21.77 -25.20 -19.96 -23.10 Over Limit	Horizontal Horizontal Vertical Vertical
2483.50 2500.00 2483.50 2500.00 Average va Frequency (MHz)	(dBuV) 49.16 45.69 50.97 47.79 Ilue: Read Level (dBuV)	(dB/m) 27.53 27.55 27.53 27.55 Antenna Factor (dB/m)	(dB) 5.47 5.49 5.47 5.49 Cable Loss (dB)	(dB) 29.93 29.93 29.93 29.93 Preamp Factor (dB)	(dBuV/m) 52.23 48.80 54.04 50.90 Level (dBuV/m)	74.00 74.00 74.00 74.00 T4.00 Limit Line (dBuV/m)	Limit (dB) -21.77 -25.20 -19.96 -23.10 Over Limit (dB)	Horizontal Horizontal Vertical Vertical Polarization
(MHz) 2483.50 2500.00 2483.50 2500.00 Average va Frequency (MHz) 2483.50	(dBuV) 49.16 45.69 50.97 47.79 Iue: Read Level (dBuV) 36.88	(dB/m) 27.53 27.55 27.55 27.55 Antenna Factor (dB/m) 27.53	(dB) 5.47 5.49 5.47 5.49 Cable Loss (dB) 5.47	(dB) 29.93 29.93 29.93 Preamp Factor (dB) 29.93	(dBuV/m) 52.23 48.80 54.04 50.90 Level (dBuV/m) 39.95	(dBuV/m) 74.00 74.00 74.00 74.00 Limit Line (dBuV/m) 54.00	Limit (dB) -21.77 -25.20 -19.96 -23.10 Over Limit (dB) -14.05	Horizontal Horizontal Vertical Vertical Polarization Horizontal

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

Test channel:

Global United Technology Services Co., Ltd.

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

Shenzhen, China 518102



7.7 Spurious Emission

7.7.1 Conducted Emission Method

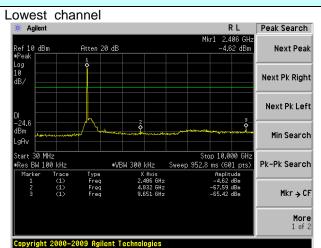
Test Requirement:	FCC Part15 C Section 15.247 (d)				
Test Method:	ANSI C63.4:2003 and KDB558074 D01 DTS Meas Guidance V03				
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional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



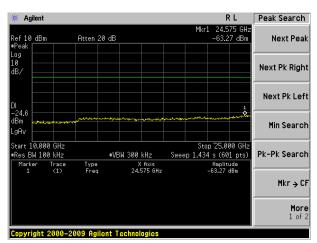
Test plot as follows:

Test mode:

802.11b

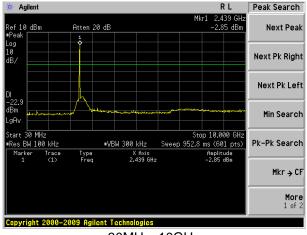


30MHz~10GHz

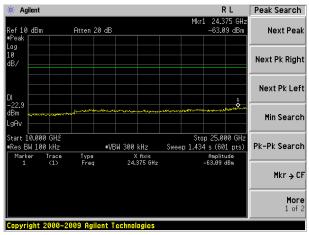


10GHz~25GHz

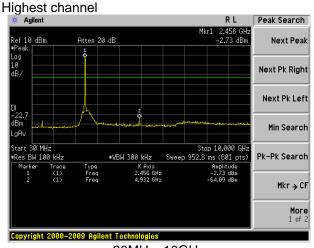




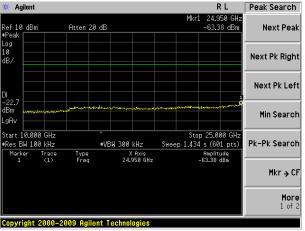
30MHz~10GHz



10GHz~25GHz



30MHz~10GHz



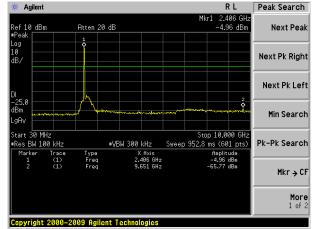
10GHz~25GHz



Test mode:

802.11g

Lowest channel

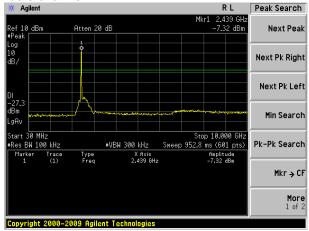


30MHz~10GHz

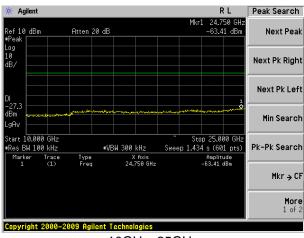
Agilent Peak Search Ref 10 dBm Atten 20 dE Next Peak Next Pk Right Next Pk Left Min Search gAv Start 10.000 GHz •Res BW 100 kHz Stop 25.000 GHz Sweep 1.434 s (601 pts) #VBW 300 kHz Pk-Pk Search X Axis 24.875 GHz Mkr → CF More 1 of 2 Copyright 2000-2009 Agilent Technologies

10GHz~25GHz

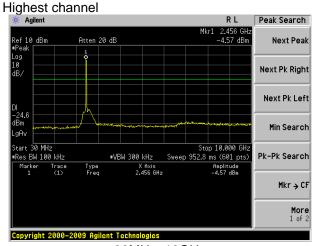
Middle channel



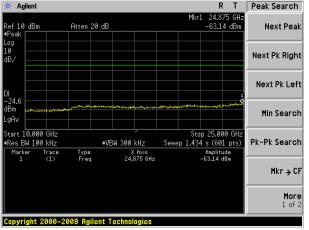
30MHz~10GHz



10GHz~25GHz



30MHz~10GHz



10GHz~25GHz



7.7.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209							
Test Method:	ANSI C63.4: 200	ANSI C63.4: 2003						
Test Frequency Range:	30MHz to 25GHz	; =						
Test site:	Measurement Dis	stance: 3m						
Receiver setup:	Frequency	Detector	RBW	VBW	Value			
	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak			
	Above 1GHz	Peak	1MHz	3MHz	Peak			
	Above 1G112	Peak 1MHz 10Hz						
Limit:	Frequen	Frequency Limit (dBuV/m @3m)						
	30MHz-88	30MHz-88MHz 40.00 Qu						
	88MHz-216	6MHz	43.5	0	Quasi-peak			
	216MHz-96	0MHz	46.0	0	Quasi-peak			
	960MHz-1	GHz	54.0	0	Quasi-peak			
	Above 10)U-	54.0	0	Average			
	Above 10	סחב	74.00		Peak			
	Tum 7 0.8m 7 o.8m 7 o.8	4m	A A	Search Antenna RF Test Receiver				



Test Procedure:	1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.
	The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
	3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
	4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.
	The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
	6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasipeak or average method as specified and then reported in a data sheet.
	7. The radiation measurements are performed in X, Y, Z axis positioning. And found the X axis positioning which it is worse case, only the test worst case mode is recorded in the report.
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

Remark:

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



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
46.34	39.73	15.46	0.73	31.99	23.93	40.00	-16.07	Vertical
96.10	41.88	14.90	1.16	31.75	26.19	43.50	-17.31	Vertical
111.35	44.71	14.04	1.29	31.82	28.22	43.50	-15.28	Vertical
181.28	42.84	11.76	1.75	32.09	24.26	43.50	-19.24	Vertical
528.25	41.78	19.15	3.43	31.41	32.95	46.00	-13.05	Vertical
975.75	37.84	23.59	5.14	31.23	35.34	54.00	-18.66	Vertical
46.34	45.23	15.46	0.73	31.99	29.43	40.00	-10.57	Horizontal
50.94	42.32	15.21	0.78	31.96	26.35	40.00	-13.65	Horizontal
96.10	42.86	14.90	1.16	31.75	27.17	43.50	-16.33	Horizontal
155.91	42.84	10.51	1.60	32.00	22.95	43.50	-20.55	Horizontal
432.55	43.21	17.53	3.01	31.78	31.97	46.00	-14.03	Horizontal
609.92	41.68	20.48	3.76	31.06	34.86	46.00	-11.14	Horizontal



■ Above 1GHz

Test mode:		802.11b		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	34.45	31.79	8.62	32.10	42.76	74.00	-31.24	Vertical
7236.00	28.45	36.19	11.68	31.97	44.35	74.00	-29.65	Vertical
9648.00	28.84	38.07	14.16	31.56	49.51	74.00	-24.49	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	33.60	31.79	8.62	32.10	41.91	74.00	-32.09	Horizontal
7236.00	28.17	36.19	11.68	31.97	44.07	74.00	-29.93	Horizontal
9648.00	28.35	38.07	14.16	31.56	49.02	74.00	-24.98	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	24.19	31.79	8.62	32.10	32.50	54.00	-21.50	Vertical
7236.00	17.96	36.19	11.68	31.97	33.86	54.00	-20.14	Vertical
9648.00	17.97	38.07	14.16	31.56	38.64	54.00	-15.36	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	23.34	31.79	8.62	32.10	31.65	54.00	-22.35	Horizontal
7236.00	17.44	36.19	11.68	31.97	33.34	54.00	-20.66	Horizontal
9648.00	16.96	38.07	14.16	31.56	37.63	54.00	-16.37	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	34.18	31.85	8.66	32.12	42.57	74.00	-31.43	Vertical
7311.00	29.18	36.37	11.71	31.91	45.35	74.00	-28.65	Vertical
9748.00	28.66	38.27	14.25	31.56	49.62	74.00	-24.38	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	34.69	31.85	8.66	32.12	43.08	74.00	-30.92	Horizontal
7311.00	27.84	36.37	11.71	31.91	44.01	74.00	-29.99	Horizontal
9748.00	28.55	38.27	14.25	31.56	49.51	74.00	-24.49	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	25.05	31.85	8.66	32.12	33.44	54.00	-20.56	Vertical
7311.00	17.50	36.37	11.71	31.91	33.67	54.00	-20.33	Vertical
9748.00	17.91	38.27	14.25	31.56	38.87	54.00	-15.13	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	24.81	31.85	8.66	32.12	33.20	54.00	-20.80	Horizontal
7311.00	16.93	36.37	11.71	31.91	33.10	54.00	-20.90	Horizontal
9748.00	18.27	38.27	14.25	31.56	39.23	54.00	-14.77	Horizontal
12185.00	*					54.00		Horizontal
14622.00	*					54.00		Horizontal
17059.00	*					54.00		Horizontal

Remark:

Shenzhen, China 518102

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

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



Test mode:		802.11b		Te	st channel:	High	est	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	1 1 2021	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	39.59	31.90	8.70	32.15	48.04	74.00	-25.96	Vertical
7386.00	29.78	36.49	11.76	31.83	46.20	74.00	-27.80	Vertical
9848.00	31.90	38.62	14.31	31.77	53.06	74.00	-20.94	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	38.94	31.90	8.70	32.15	47.39	74.00	-26.61	Horizontal
7386.00	28.70	36.49	11.76	31.83	45.12	74.00	-28.88	Horizontal
9848.00	28.08	38.62	14.31	31.77	49.24	74.00	-24.76	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)	1 41/41	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	30.53	31.90	8.70	32.15	38.98	54.00	-15.02	Vertical
7386.00	19.70	36.49	11.76	31.83	36.12	54.00	-17.88	Vertical
9848.00	20.40	38.62	14.31	31.77	41.56	54.00	-12.44	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	29.32	31.90	8.70	32.15	37.77	54.00	-16.23	Horizontal
7386.00	18.10	36.49	11.76	31.83	34.52	54.00	-19.48	Horizontal
9848.00	17.34	38.62	14.31	31.77	38.50	54.00	-15.50	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	33.17	31.79	8.62	32.10	41.48	74.00	-32.52	Vertical
7236.00	27.65	36.19	11.68	31.97	43.55	74.00	-30.45	Vertical
9648.00	28.26	38.07	14.16	31.56	48.93	74.00	-25.07	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	32.52	31.79	8.62	32.10	40.83	74.00	-33.17	Horizontal
7236.00	27.46	36.19	11.68	31.97	43.36	74.00	-30.64	Horizontal
9648.00	27.82	38.07	14.16	31.56	48.49	74.00	-25.51	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	23.01	31.79	8.62	32.10	31.32	54.00	-22.68	Vertical
7236.00	17.18	36.19	11.68	31.97	33.08	54.00	-20.92	Vertical
9648.00	17.42	38.07	14.16	31.56	38.09	54.00	-15.91	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertica
4824.00	22.33	31.79	8.62	32.10	30.64	54.00	-23.36	Horizontal
7236.00	16.75	36.19	11.68	31.97	32.65	54.00	-21.35	Horizontal
9648.00	16.44	38.07	14.16	31.56	37.11	54.00	-16.89	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	33.12	31.85	8.66	32.12	41.51	74.00	-32.49	Vertical
7311.00	28.51	36.37	11.71	31.91	44.68	74.00	-29.32	Vertical
9748.00	28.18	38.27	14.25	31.56	49.14	74.00	-24.86	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	33.79	31.85	8.66	32.12	42.18	74.00	-31.82	Horizontal
7311.00	27.25	36.37	11.71	31.91	43.42	74.00	-30.58	Horizontal
9748.00	28.11	38.27	14.25	31.56	49.07	74.00	-24.93	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	24.07	31.85	8.66	32.12	32.46	54.00	-21.54	Vertical
7311.00	16.86	36.37	11.71	31.91	33.03	54.00	-20.97	Vertical
9748.00	17.45	38.27	14.25	31.56	38.41	54.00	-15.59	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	23.97	31.85	8.66	32.12	32.36	54.00	-21.64	Horizontal
7311.00	16.36	36.37	11.71	31.91	32.53	54.00	-21.47	Horizontal
9748.00	17.84	38.27	14.25	31.56	38.80	54.00	-15.20	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	37.77	31.90	8.70	32.15	46.22	74.00	-27.78	Vertical
7386.00	28.63	36.49	11.76	31.83	45.05	74.00	-28.95	Vertical
9848.00	31.07	38.62	14.31	31.77	52.23	74.00	-21.77	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	37.40	31.90	8.70	32.15	45.85	74.00	-28.15	Horizontal
7386.00	27.70	36.49	11.76	31.83	44.12	74.00	-29.88	Horizontal
9848.00	27.32	38.62	14.31	31.77	48.48	74.00	-25.52	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	28.85	31.90	8.70	32.15	37.30	54.00	-16.70	Vertical
7386.00	18.59	36.49	11.76	31.83	35.01	54.00	-18.99	Vertical
9848.00	19.61	38.62	14.31	31.77	40.77	54.00	-13.23	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	27.87	31.90	8.70	32.15	36.32	54.00	-17.68	Horizontal
7386.00	17.12	36.49	11.76	31.83	33.54	54.00	-20.46	Horizontal
9848.00	16.61	38.62	14.31	31.77	37.77	54.00	-16.23	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

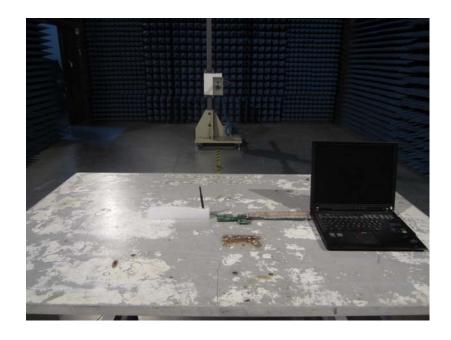
^{2. &}quot;*", means this data is the too weak instrument of signal is unable to test.



8 Test Setup Photo

Radiated Emission





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



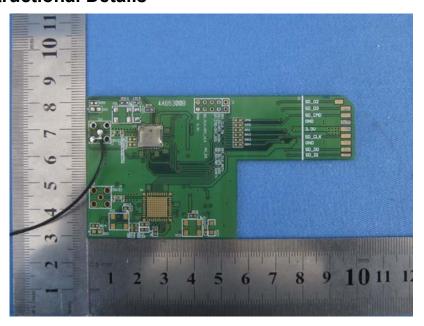
Conducted Emission

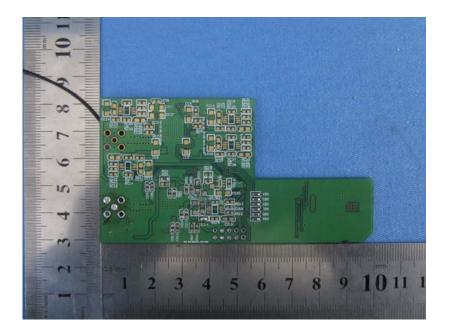


Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960

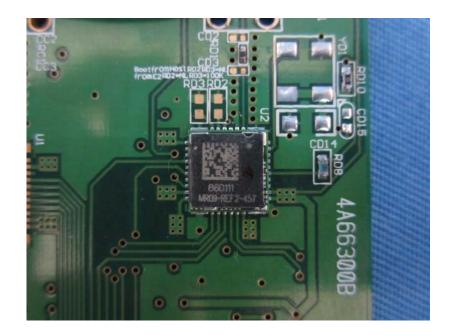


9 EUT Constructional Details









-----End-----