

Global United Technology Services Co., Ltd.

Report No.: GTS201904000204F03

FCC Report (WIFI)

Applicant: Darmuoba, S.A. de C.V

Address of Applicant: Mar Negro 1, Col. Tacuba, CDMX, C.P 11410 Miguel

Hidalgo, Distrito Federal, Mexico

Manufacturer/Factory: Z-TECH COMMUNICATION(SZ)CO;LTD

Address of 7L BLK D BAO'AN ZHIGU YIN'TIAN ROAD NO.4 XI'XIANG,

Manufacturer/Factory: BAO'AN DISTRICT SZ CHINA

Equipment Under Test (EUT)

Product Name: MOBIE PHONE

Model No.: **SD50**

Trade Mark: **UNEONE**

FCC ID: 2AIFYSD50

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

Date of sample receipt: April 28, 2019

Date of Test: April 29, 2019-May 30, 2019

Date of report issued: May 31, 2019

Test Result: PASS *

Authorized Signature:

Robinson Lo **Laboratory Manager**

This results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

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



2 Version

Version No.	Date	Description
00	May 31, 2019	Original

Prepared By:	Bill. yvan	Date:	May 31, 2019
	Project Engineer		
Check By:	Reviewer	Date:	May 31, 2019



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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

Remarks:

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

2. Test according to ANSI C63.10:2013

4.1 Measurement Uncertainty

Test Item	Frequency Range	Measurement Uncertainty	Notes			
Radiated Emission	9kHz ~ 30MHz	± 4.54dB	(1)			
Radiated Emission	30MHz ~ 1000MHz	± 5.34dB	(1)			
Radiated Emission	1GHz ~ 26.5GHz	± 5.34dB	(1)			
AC Power Line Conducted Emission	0.15MHz ~ 30MHz	± 3.44dB	(1)			
Note (1): The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.						



5 General Information

5.1 General Description of EUT

MOBIE PHONE
SD50
356888100000437
SD50_V1.1
SD50_002R
GTS201904000204-1
Engineer sample
2412MHz~2462MHz(802.11b/g/n(HT20))
2422MHz~2452MHz(802.11n(HT40))
802.11b/802.11g /802.11n(HT20): 11
802.11n(HT40):7
5MHz
802.11b: Direct Sequence Spread Spectrum (DSSS)
802.11g/802.11n(HT20):
Orthogonal Frequency Division Multiplexing (OFDM)
PIFA Antenna
1.24dBi(Max)
Adaptor
Model:SD50-A
Input: AC 100-240V, 50-60Hz, 150mA
Output: DC 5V, 800mA
Or
Battery: DC 3.8V, 2000mAh, 7.6W



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

Note:

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

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



5.2 Test mode

Transmitting mode Keep the EUT in continuously transmitting mode

Remark: During the test, the dutycycle >98%, 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:

Pre-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

5.3 Description of Support Units

None.

5.4 Test Facility

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

• FCC —Registration No.: 381383

Global United Technology Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in files. Registration 381383.

• 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.

• NVLAP (LAB CODE:600179-0)

Global United Technology Services Co., Ltd., is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP). LAB CODE:600179-0

5.5 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

Address: No. 301-309, 3/F, Jinyuan Business Building, No.2, Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102

Tel: 0755-27798480 Fax: 0755-27798960



6 Test Instruments list

Rad	iated 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	July. 03 2015	July. 02 2020
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A
3	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	June. 27 2018	June. 26 2019
4	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	June. 27 2018	June. 26 2019
5	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120 D	GTS208	June. 27 2018	June. 26 2019
6	Horn Antenna	ETS-LINDGREN	3160	GTS217	June. 27 2018	June. 26 2019
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
8	Coaxial Cable	GTS	N/A	GTS213	June. 27 2018	June. 26 2019
9	Coaxial Cable	GTS	N/A	GTS211	June. 27 2018	June. 26 2019
10	Coaxial cable	GTS	N/A	GTS210	June. 27 2018	June. 26 2019
11	Coaxial Cable	GTS	N/A	GTS212	June. 27 2018	June. 26 2019
12	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	June. 27 2018	June. 26 2019
13	Amplifier(2GHz-20GHz)	HP	84722A	GTS206	June. 27 2018	June. 26 2019
14	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June. 27 2018	June. 26 2019
15	Band filter	Amindeon	82346	GTS219	June. 27 2018	June. 26 2019
16	Power Meter	Anritsu	ML2495A	GTS540	June. 27 2018	June. 26 2019
17	Power Sensor	Anritsu	MA2411B	GTS541	June. 27 2018	June. 26 2019
18	Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	GTS575	June. 27 2018	June. 26 2019
19	Splitter	Agilent	11636B	GTS237	June. 27 2018	June. 26 2019
20	Loop Antenna	ZHINAN	ZN30900A	GTS534	June. 27 2018	June. 26 2019
21	Breitband hornantenne	SCHWARZBECK	BBHA 9170	GTS579	Oct. 20 2018	Oct. 19 2019
22	Amplifier	TDK	PA-02-02	GTS574	Oct. 20 2018	Oct. 19 2019
23	Amplifier	TDK	PA-02-03	GTS576	Oct. 20 2018	Oct. 19 2019
24	PSA Series Spectrum Analyzer	Rohde & Schwarz	FSP	GTS578	June. 27 2018	June. 26 2019



Cond	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	7.3(L)x3.1(W)x2.9(H)	GTS252	May.15 2019	May.14 2022		
2	EMI Test Receiver	R&S	ESCI 7	GTS552	June. 27 2018	June. 26 2019		
3	Coaxial Switch	ANRITSU CORP	MP59B	GTS225	June. 27 2018	June. 26 2019		
4	Artificial Mains Network	SCHWARZBECK MESS	NSLK8127	GTS226	June. 27 2018	June. 26 2019		
5	Coaxial Cable	GTS	N/A	GTS227	N/A	N/A		
6	EMI Test Software	AUDIX	E3	N/A	N/A	N/A		
7	Thermo meter	KTJ	TA328	GTS233	June. 27 2018	June. 26 2019		
8	Absorbing clamp	Elektronik- Feinmechanik	MDS21	GTS229	June. 27 2018	June. 26 2019		

RF C	RF Conducted Test:								
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)			
1	MXA Signal Analyzer	Agilent	N9020A	GTS566	June. 27 2018	June. 26 2019			
2	EMI Test Receiver	R&S	ESCI 7	GTS552	June. 27 2018	June. 26 2019			
3	Spectrum Analyzer	Agilent	E4440A	GTS533	June. 27 2018	June. 26 2019			
4	MXG vector Signal Generator	Agilent	N5182A	GTS567	June. 27 2018	June. 26 2019			
5	ESG Analog Signal Generator	Agilent	E4428C	GTS568	June. 27 2018	June. 26 2019			
6	USB RF Power Sensor	DARE	RPR3006W	GTS569	June. 27 2018	June. 26 2019			
7	RF Switch Box	Shongyi	RFSW3003328	GTS571	June. 27 2018	June. 26 2019			
8	Programmable Constant Temp & Humi Test Chamber	WEWON	WHTH-150L-40-880	GTS572	June. 27 2018	June. 26 2019			

Gene	General used equipment:									
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)				
1	Humidity/ Temperature Indicator	KTJ	TA328	GTS243	June. 27 2018	June. 26 2019				
2	Barometer	ChangChun	DYM3	GTS255	June. 27 2018	June. 26 2019				



7 Test results and Measurement Data

7.1 Antenna requirement

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

15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(c) (1)(i) requirement:

(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

EUT Antenna:

The antenna is PIFA antenna, the best case gain of the antenna is 1.24dBi, reference to the appendix II for details



7.2 Conducted Emissions

Test Method: Test Frequency Range: Receiver setup: Receiver setup: Receiver setup: Receiver setup: Receiver setup: Limit: Frequency range (MHz) Quasi-peak Average 0.15-0.5 66 to 56* 56 to 46* 0.5-5 5.30 60 50 * Decreases with the logarithm of the frequency. Test setup: Reference Plane LISN AUX Equipment E.U.T Test table/Insulation plane Receiver Test procedure: 1. 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 500hm/50uH coupling impedance for the measuring equipment. 2. The peripheral devices are also connected to the main power through LISN that provides a 500hm/50uH coupling impedance with 500hm termination. (Please refer to the block diagram of the test setup and photographs). 3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10:2013 on conducted measurement. Test Instruments: Refer to section 6.0 for details Test mode: Refer to section 5.2 for details	Test Requirement:	FCC Part15 C Section 15.207							
Receiver setup: RBW=9KHz, VBW=30KHz, Sweep time=auto Limit: Frequency range (MHz) Quasi-peak Average 0.15-0.5 66 to 56* 56 to 46* 0.5-5 56 46 5-30 60 50 * Decreases with the logarithm of the frequency. Reference Plane LISN AUX Equipment Uniter Test LISN Into Impedance Stabilization Network (L.I.S.N.). This provides a 500nm/50uH coupling impedance for the measuring equipment. 2. The peripheral devices are also connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 500nm/50uH coupling impedance for the measuring equipment. 2. The peripheral devices are also connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 500nm/50uH coupling impedance with 500nm termination. (Please refer to the block diagram of the test setup and photographs). 3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10:2013 on conducted measurement. Test Instruments: Refer to section 5.2 for details	Test Method:	ANSI C63.10:2013	ANSI C63.10:2013						
Limit: Frequency range (MHz)	Test Frequency Range:	150KHz to 30MHz							
Test procedure: 1. The EU. T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 500hm/50uH coupling impedance for the masin power through LISN termination. (Please refer to the block diagram of the test setup and photographs). 3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10:2013 on conducted measurement. Test Instruments: Refer to section 5.2 for details Refer to section 5.2 for details	Receiver setup:	RBW=9KHz, VBW=30KHz, Sv	weep time=auto						
Test setup: Cutasi-peak	Limit:	Fraguency range (MHz)	Limit	(dBuV)					
Test setup: Reference Plane		, , ,							
* Decreases with the logarithm of the frequency. * Decreases with the logarithm of the frequency. * Reference Plane LISN									
* Decreases with the logarithm of the frequency. * Test setup: **Reference Plane LISN									
Test setup: Reference Plane LISN AUX Equipment E.U.T Test table/Insulation plane Receiver Test procedure: 1. 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 500hm/50uH coupling impedance for the measuring equipment. 2. The peripheral devices are also connected to the main power through a line impedance at a 500hm/50uH coupling impedance with 500hm termination. (Please refer to the block diagram of the test setup and photographs). 3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10:2013 on conducted measurement. Test Instruments: Refer to section 5.2 for details Refer to section 5.2 for details				5	50				
Test procedure: 1. 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 500hm/50uH coupling impedance for the measuring equipment. 2. The peripheral devices are also connected to the main power through a LiSN that provides a 500hm/50uH coupling impedance with 500hm termination. (Please refer to the block diagram of the test setup and photographs). 3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10:2013 on conducted measurement. Test Instruments: Refer to section 6.0 for details Test mode: Refer to section 5.2 for details	Test setup:		r or the frequency.						
line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. 2. The peripheral devices are also connected to the main power through LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). 3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10:2013 on conducted measurement. Test Instruments: Refer to section 6.0 for details Refer to section 5.2 for details		AUX Equipment Test table/Insulation plane Remark E.U.T. Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m	Filter — AC po						
LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). 3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10:2013 on conducted measurement. Test Instruments: Refer to section 6.0 for details Refer to section 5.2 for details	Test procedure:	line impedance stabilization	network (L.I.S.N.). 7	his provides	sa				
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 C63.10:2013 on conducted measurement. Test Instruments: Refer to section 6.0 for details Test mode: Refer to section 5.2 for details		LISN that provides a 50ohm termination. (Please refer to	n/50uH coupling impe	edance with	50ohm				
Test mode: Refer to section 5.2 for details		interference. In order to find positions of equipment and	d the maximum emiss all of the interface ca	sion, the rela ables must b	ative be changed				
	Test Instruments:	Refer to section 6.0 for details							
T T	Test mode:	Refer to section 5.2 for details							
Test environment: Temp.: 25 °C Humid.: 52% Press.: 1012mb	Test environment:	Temp.: 25 °C Hum	nid.: 52%	Press.:	1012mbar				
Test voltage: AC 120V, 60Hz	Test voltage:	AC 120V, 60Hz	l		1				
Test results: Pass									

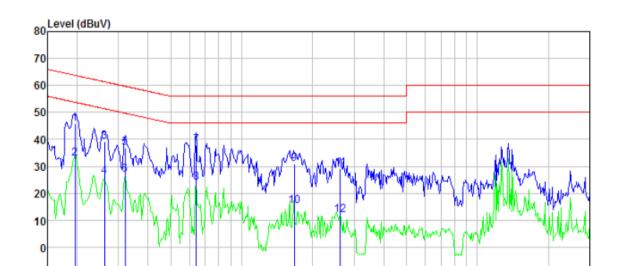


Measurement data Line:

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20

30



2

Frequency (MHz)

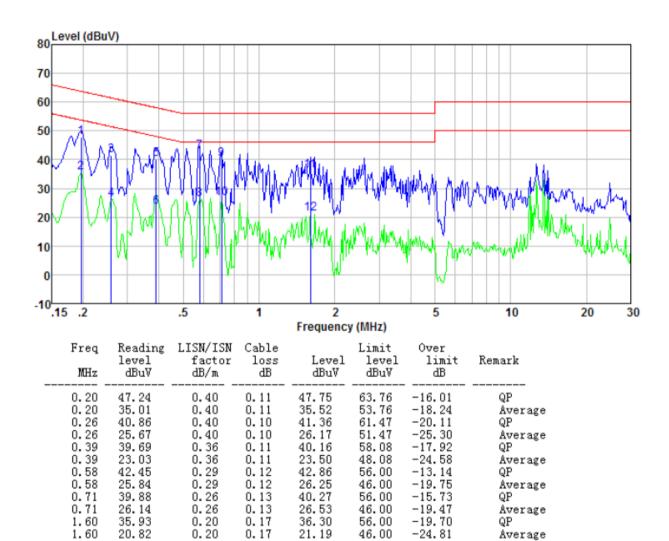
5

Freq MHz	Reading level dBuV	LISN/ISN factor dB/m	Cable loss dB	Level dBuV	Limit level dBuV	Over limit dB	Remark
0.20	45.24	0.40	0.11	45.75	63.76	-18.01	QP
0.20	32.41	0.40	0.11	32.92	53.76	-20.84	Average
0.26	38.63	0.40	0.10	39.13	61.38	-22.25	QP
0.26	25.79	0.40	0.10	26.29	51.38	-25.09	Average
0.32	36.43	0.39	0.10	36.92	59.71	-22.79	QP
0.32	26.26	0.39	0.10	26.75	49.71	-22.96	Äverage
0.64	37.27	0.27	0.12	37.66	56.00	-18.34	QP
0.64	23.36	0.27	0.12	23.75	46.00	-22.25	Äverage
1.67	30.57	0.20	0.17	30.94	56.00	-25.06	QP
1.67	14.90	0.20	0.17	15. 27	46.00	-30.73	Äverage
2.62	28.79	0.20	0.19	29.18	56.00	-26.82	QP
2.62	11.43	0.20	0.19	11.82	46.00	-34.18	Äverage
2.02	11.40	0.20	0.15	11.02	40.00	34.10	vacrage



Neutral:

Report No.: GTS201904000204F03

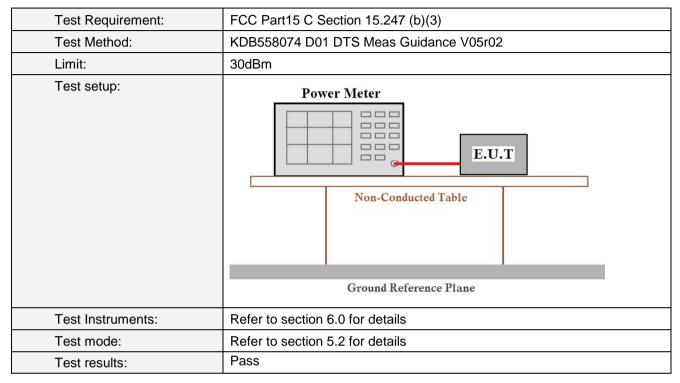


Notes:

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



7.3 Conducted Peak Output Power



Measurement Data

Test CH		Peak Outp	Limit(dBm)	Result		
1631 011	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	Limit(abin)	Nesuit
Lowest	15.68	12.79	12.32	11.12		
Middle	15.84	12.67	12.79	10.90	30.00	Pass
Highest	15.29	12.32	12.29	10.60		



7.4 Channel Bandwidth

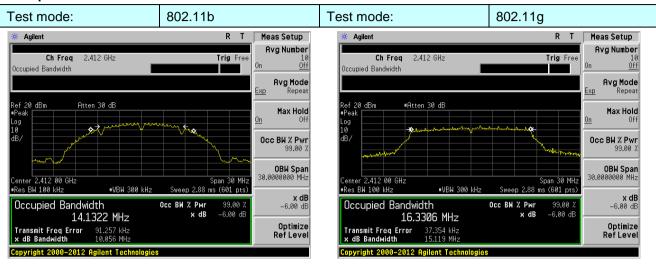
Test Requirement:	FCC Part15 C Section 15.247 (a)(2)			
Test Method:	KDB558074 D01 DTS Meas Guidance V05r02			
Limit:	>500KHz			
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane			
Test Instruments:	Refer to section 6.0 for details Refer to section 5.2 for details			
Test mode:				
Test results:	Pass			

Measurement Data

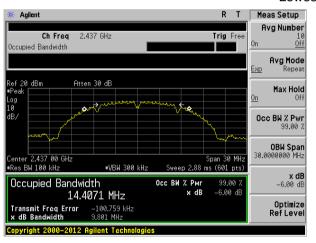
Test CH		Channel E	Limit(KHz)	Result		
1631 011	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	Limit(IXI IZ)	result
Lowest	10.056	15.119	16.001	35.201		
Middle	9.801	15.516	16.093	35.716	>500	Pass
Highest	10.069	15.144	15.977	77 35.855		

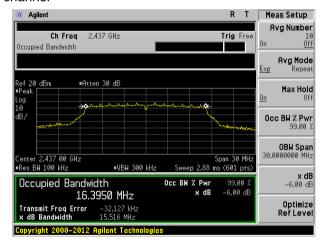


Test plot as follows:

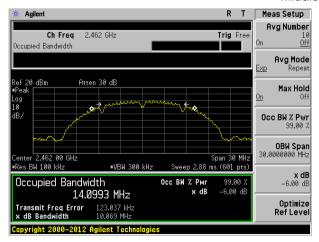


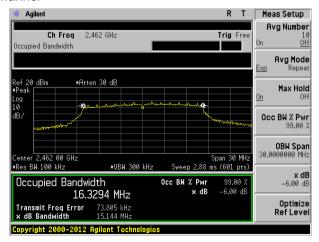
Lowest channel





Middle channel



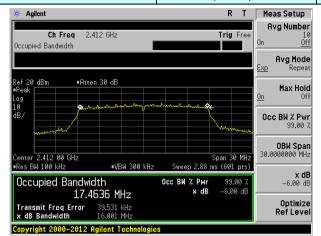


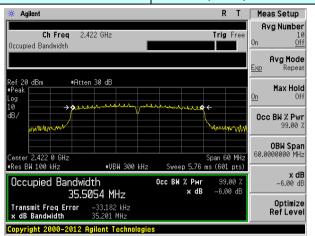
Highest channel

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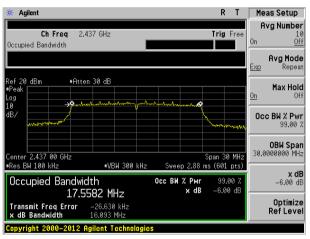


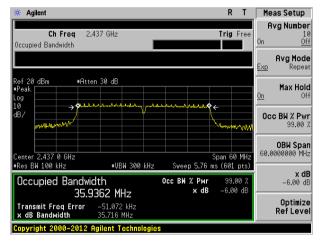
Test mode: 802.11n(HT20) Test mode: 802.11n(HT40)



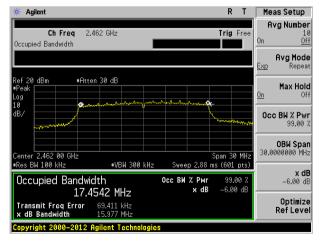


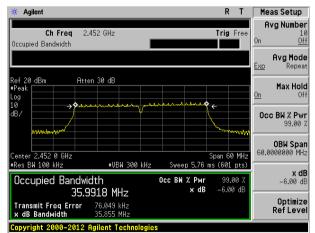
Lowest channel





Middle channel

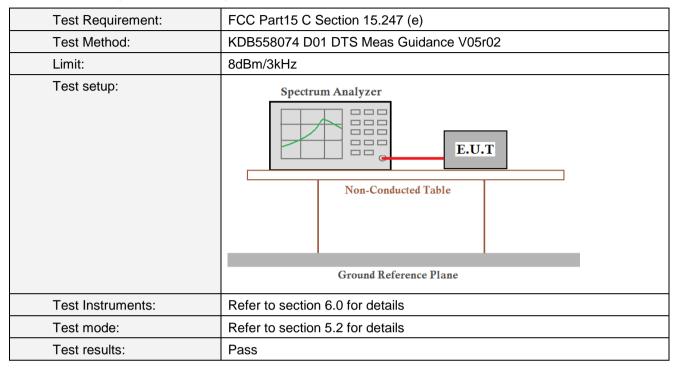




Highest channel



7.5 Power Spectral Density



Measurement Data

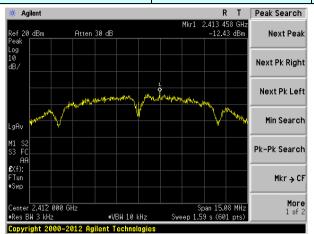
Test CH		Power Spectra	Limit	Result		
1631 011	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	(dBm/3kHz)	Nesuit
Lowest	-12.43	-18.05	-18.79	-18.54		
Middle	-13.25	-13.80	-14.97	-20.56	8.00	Pass
Highest	-14.75	-15.94	-17.21	-19.83		

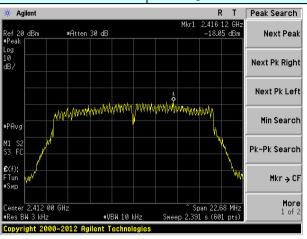


Test plot as follows:

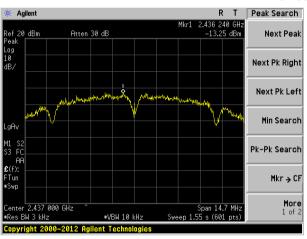
Report No.: GTS201904000204F03

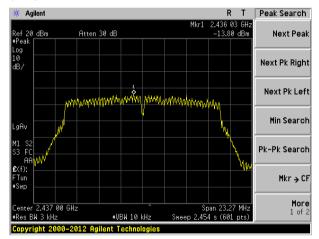
Test mode: 802.11b Test mode: 802.11g



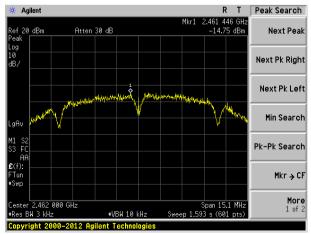


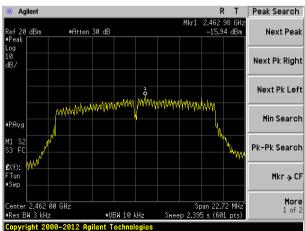
Lowest channel





Middle channel

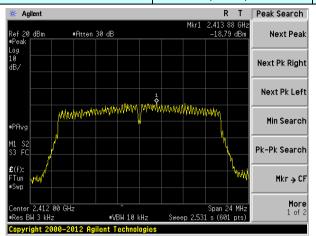


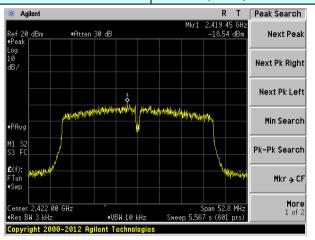


Highest channel

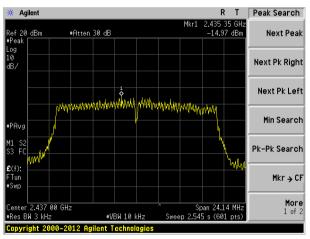


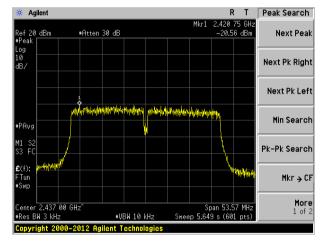
Test mode: 802.11n(HT20) Test mode: 802.11n(HT40)



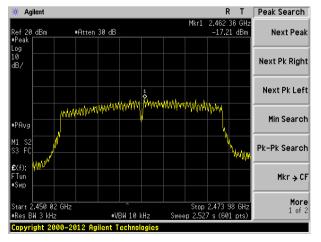


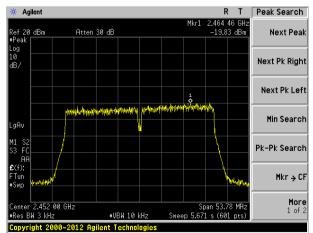
Lowest channel





Middle channel





Highest channel



7.6 Band edges

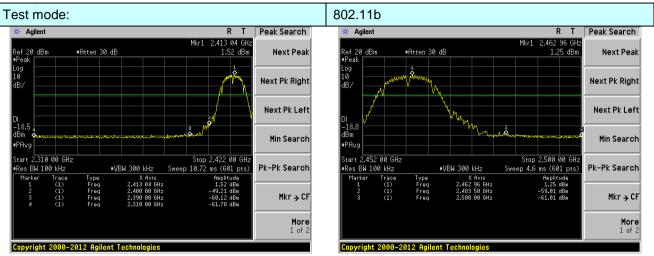
7.6.1 Conducted Emission Method

Took Dogwingmont	FOC Double O Continue 45 047 (d)					
Test Requirement:	FCC Part15 C Section 15.247 (d)					
Test Method:	KDB558074 D01 DTS Meas Guidance V05r02					
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 5.2 for details					
Test results:	Pass					



Test plot as follows:

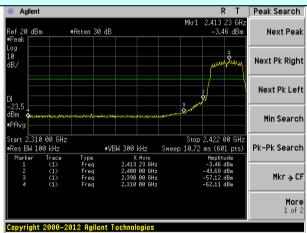
Report No.: GTS201904000204F03



Lowest channel

Highest channel

Test mode:



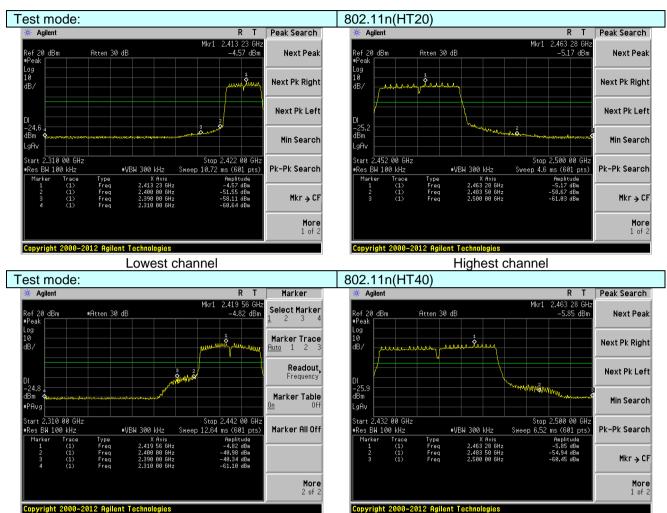
Lowest channel

802.11g



Highest channel







7.6.2 Radiated Emission Method

Test Requirement:	FCC Part15 C S	Section 15.209	and 15.205					
Test Method:	ANSI C63.10:20							
Test Frequency Range:	All of the restric	t bands were	tested, only	the worst b	and's (2310MHz to			
	2500MHz) data							
Test site:	Measurement Distance: 3m							
Receiver setup:	Frequency	Detector	RBW	VBW	Value			
	Above 1GHz	Peak	1MHz	3MHz	Peak			
	Above 1GH2 Average 1MHz 3MHz Average							
Limit:	Freque	Frequency Limit (dBuV/m @3m) Value						
	Above 1	GH ₇	54.0		Average			
	Above	OFIZ	74.0	0	Peak			
Test setup:	Tum Table 7 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	< 3m	Test Antenna < 1m 4m >	reamplifier				
Test Procedure:	the ground at determine the 2. The EUT was antenna, white tower. 3. The antenna ground to determine the horizontal and measurement and the rotal the maximum the maximum the emission limit specified Ballotte EUT wou 10dB margin average met 7. The radiation And found the sure and the rotal the maximum the maximum the maximum the maximum the maximum the test-recession is specified by the EUT wou the test-recession that the maximum the test-recession is specified by the test-recession that the test-recession is specified by the test-recession that the tes	t a 3 meter can be position of the set 3 meters on was mount theight is varied termine the mid vertical polant. pected emission antenna was trable was turn a reading. Every system who will be reported would be re-thod as specifical measurement.	mber. The take highest race away from the ed on the toped from one maximum value rizations of the fon, the EUT tuned to height as set to Peadaximum Hold EUT in peak could be stoped. Otherwise the ested one by ed and then ruts are performoning which it away from the recognition of the end of the ested one by the ested one by the ested one by the ested one formoning which it is a way from the ested one by the ested one of the est	ole was rotadiation. The interferer of a variable meter to four elements arrangents from 1 mgrees to 360 Mk Detect Full Mode, mode was arrangents from 1 mgrees to 360 mode was apped and the emission one using peported in a med in X, Y, t is worse care	de-height antenna or meters above the distrength. Both are set to make the ed to its worst case neter to 4 meters of degrees to find unction and lodB lower than the e peak values of is that did not have beak, quasi-peak or			
Test Instruments:	Refer to section			71 (.				
Test mode:	Refer to section							
Test voltage:	AC 120V, 60Hz	J.Z IUI UEIAIIS	•					
Test voltage. Test results:	Pass							
i est results.	газэ							

Measurement data:

Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102



						Report No	.: GTS2019	04000204F03
Test mode:		802.11b		Tes	t channel:	·	Lowest	
Peak value:	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
2310.00	40.53	27.61	5.38	34.01	39.51	74.00	-34.49	Horizontal
2400.00	53.89	27.59	5.40	34.01	52.87	74.00	-21.13	Horizontal
2310.00	40.88	27.61	5.38	34.01	39.86	74.00	-34.14	Vertical
2400.00	56.40	27.59	5.40	34.01	55.38	74.00	-18.62	Vertical
Average va	lue:							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2310.00	33.21	27.61	5.38	34.01	32.19	54.00	-21.81	Horizontal
2400.00	39.51	27.59	5.40	34.01	38.49	54.00	-15.51	Horizontal
2310.00	33.92	27.61	5.38	34.01	32.90	54.00	-21.10	Vertical
2400.00	41.40	27.59	5.40	34.01	40.38	54.00	-13.62	Vertical
Test mode:		802.11b		Tes	t channel:		Highest	
Peak value:		1		1	T	1	1	1
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	53.70	27.53	5.47	33.92	52.78	74.00	-21.22	Horizontal
2500.00	49.21	27.55	5.49	29.93	52.32	74.00	-21.68	Horizontal
2483.50	56.15	27.53	5.47	33.92	55.23	74.00	-18.77	Vertical
2500.00	51.91	27.55	5.49	29.93	55.02	74.00	-18.98	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	39.61	27.53	5.47	33.92	38.69	54.00	-15.31	Horizontal
2500.00	35.53	27.55	5.49	29.93	38.64	54.00	-15.36	Horizontal
2483.50	41.65	27.53	5.47	33.92	40.73	54.00	-13.27	Vertical
2500.00	37.45	27.55	5.49	29.93	40.56	54.00	-13.44	Vertical
Notes:		· · · · · · · · · · · · · · · · · · ·						

- 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.



Test mode:		802.11g		Tes	t channel:		_owest	
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
2310.00	39.21	27.61	5.38	34.01	38.19	74.00	-35.81	Horizontal
2400.00	52.13	27.59	5.40	34.01	51.11	74.00	-22.89	Horizontal
2310.00	39.46	27.61	5.38	34.01	38.44	74.00	-35.56	Vertical
2400.00	54.27	27.59	5.40	34.01	53.25	74.00	-20.75	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
2310.00	32.27	27.61	5.38	34.01	31.25	54.00	-22.75	Horizontal
2400.00	38.43	27.59	5.40	34.01	37.41	54.00	-16.59	Horizontal
2310.00	32.87	27.61	5.38	34.01	31.85	54.00	-22.15	Vertical
2400.00	40.21	27.59	5.40	34.01	39.19	54.00	-14.81	Vertical
Test mode:		802.11g		Tes	t channel:	ŀ	Highest	
Peak value	:			_				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	51.81	27.53	5.47	33.92	50.89	74.00	-23.11	Horizontal
2500.00	47.75	27.55	5.49	29.93	50.86	74.00	-23.14	Horizontal
2483.50	53.99	27.53	5.47	33.92	53.07	74.00	-20.93	Vertical
2500.00	50.19	27.55	5.49	29.93	53.30	74.00	-20.70	Vertical
Average va	lue:	ı		T	Т			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
2483.50	38.47	27.53	5.47	33.92	37.55	54.00	-16.45	Horizontal
2500.00	34.64	27.55	5.49	29.93	37.75	54.00	-16.25	Horizontal
2483.50	40.39	27.53	5.47	33.92	39.47	54.00	-14.53	Vertical
2500.00	36.51	27.55	5.49	29.93	39.62	54.00	-14.38	Vertical

Notes:

^{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.



Test mode:		802.11n(HT20)	Tes	t channel:	I	_owest	
Peak value:	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
2310.00	39.29	27.61	5.38	34.01	38.27	74.00	-35.73	Horizontal
2400.00	52.24	27.59	5.40	34.01	51.22	74.00	-22.78	Horizontal
2310.00	39.55	27.61	5.38	34.01	38.53	74.00	-35.47	Vertical
2400.00	54.41	27.59	5.40	34.01	53.39	74.00	-20.61	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
2310.00	32.33	27.61	5.38	34.01	31.31	54.00	-22.69	Horizontal
2400.00	38.50	27.58	5.40	34.01	37.47	54.00	-16.53	Horizontal
2310.00	32.94	27.61	5.38	34.01	31.92	54.00	-22.08	Vertical
2400.00	40.29	27.58	5.40	34.01	39.26	54.00	-14.74	Vertical
Test mode:		802.11n(HT20)	Tes	t channel:	I	Highest	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	51.93	27.53	5.47	33.92	51.01	74.00	-22.99	Horizontal
2500.00	47.84	27.55	5.49	29.93	50.95	74.00	-23.05	Horizontal
2483.50	54.13	27.53	5.47	33.92	53.21	74.00	-20.79	Vertical
2500.00	50.30	27.55	5.49	29.93	53.41	74.00	-20.59	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	38.55	27.53	5.47	33.92	37.63	54.00	-16.37	Horizontal
2500.00	34.70	27.55	5.49	29.93	37.81	54.00	-16.19	Horizontal
2483.50	40.47	27.53	5.47	33.92	39.55	54.00	-14.45	Vertical
	00.57	07.55	F 40			= 4 00	4400	
2500.00	36.57	27.55	5.49	29.93	39.68	54.00	-14.32	Vertical

Notes:

- 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.



Test mode:	Test mode: 802.		.11n(HT40) Tes		st channel:		Lowest		
Peak value:		•				•			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	I I Imit	Polarization	
2310.00	38.32	27.61	5.38	34.01	37.30	74.00	-36.70	Horizontal	
2400.00	50.94	27.59	5.40	34.01	49.92	74.00	-24.08	Horizontal	
2310.00	38.51	27.61	5.38	34.01	37.49	74.00	-36.51	Vertical	
2400.00	52.85	27.59	5.40	34.01	51.83	74.00	-22.17	Vertical	
Average va	lue:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	I I Imit	Polarization	
2310.00	31.64	27.61	5.38	34.01	30.62	54.00	-23.38	Horizontal	
2400.00	37.70	27.59	5.40	34.01	36.68	54.00	-17.32	Horizontal	
2310.00	32.16	27.61	5.38	34.01	31.14	54.00	-22.86	Vertical	
2400.00	39.41	9.41 27.59 5.40		34.01 38.39		54.00	-15.61	Vertical	
Test mode:		802.1	802.11n(HT40)		Test channel:		Highest		
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Limit	Polarization	
2483.50	50.53	27.53	5.47	33.92	49.61	74.00	-24.39	Horizontal	
2500.00	46.76	27.55	5.49	29.93	49.87	74.00	-24.13	Horizontal	
2483.50	52.54	27.53	5.47	33.92	51.62	74.00	-22.38	Vertical	
2500.00	49.04	27.55	5.49	29.93	52.15	74.00	-21.85	Vertical	
Average va	lue:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	I I Imit	Polarization	
2483.50	37.71	27.53	5.47	33.92	36.79	54.00	-17.21	Horizontal	
2500.00	34.04	27.55	5.49	29.93	37.15	54.00	-16.85	Horizontal	
2483.50	39.54	27.53	5.47	33.92	38.62	54.00	-15.38	Vertical	
2500.00	35.88	27.55	5.49	29.93	38.99	54.00	-15.01	Vertical	

Notes:

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



7.7 Spurious Emission

7.7.1 Conducted Emission Method

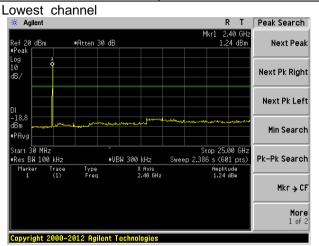
Test Requirement:	FCC Part15 C Section 15.247 (d)						
Test Method:	KDB558074 D01 DTS Meas Guidance V05r02						
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator 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 Non-Conducted Table Ground Reference Plane						
Test Instruments:	Refer to section 6.0 for details						
Test mode:	Refer to section 5.2 for details						
Test results:	Pass						

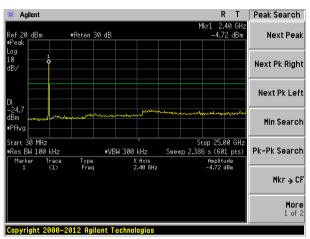


Test plot as follows:

Report No.: GTS201904000204F03

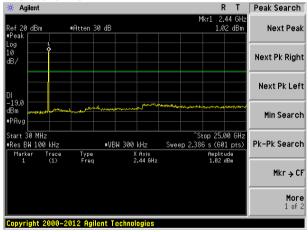
Test mode: 802.11b Test mode: 802.11g

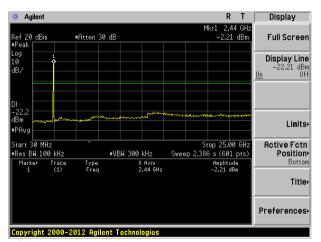




30MHz~25GHz

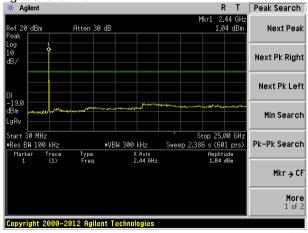
Middle channel

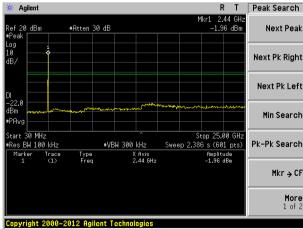




30MHz~25GHz



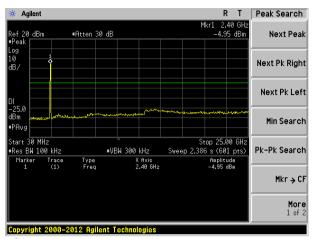




30MHz~25GHz



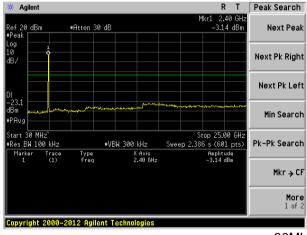
Test mode: 802.11n(HT20) Test mode: 802.11n(HT40)

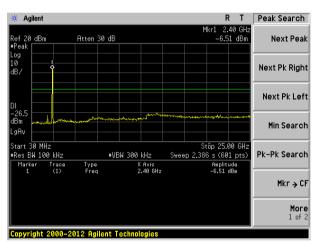


30MHz~25GHz

Middle channel

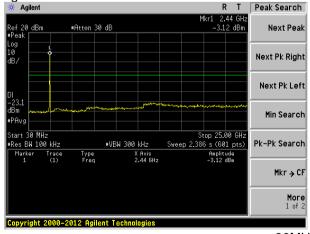
Copyright 2000-2012 Agilent Technologie

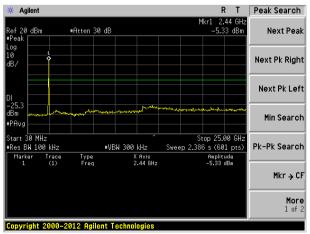




30MHz~25GHz

Highest channel





30MHz~25GHz

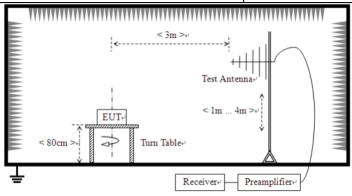


7.7.2 Radiated Emission Method

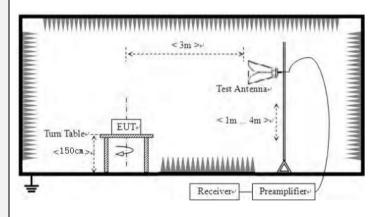
Test Requirement:	FCC Part15 C Section 15.209								
Test Method:	ANSI C63.10:2013								
Test Frequency Range:	9kHz to 25GHz								
Test site:	Measurement Distar	easurement Distance: 3m							
Receiver setup:	Frequency	Detector		RBW		VBW	Value		
	9KHz-150KHz	Quasi-peak		200Hz		600Hz	z Quasi-peak		
	150KHz-30MHz	Quasi-peak		9KHz		30KH	z Quasi-peak		
	30MHz-1GHz	Qı	Quasi-peak		120KHz		z Quasi-peak		
	Above 1GHz		Peak	1MHz		3MHz	Peak		
	Above 1GHz		Peak 1MH		Ηz	10Hz	Average		
Limit:	Frequency		Limit (uV/m)		Value		Measurement Distance		
	0.009MHz-0.490M	lHz	2400/F(KHz)		QP		300m		
	0.490MHz-1.705M	Hz	24000/F(KHz)		QP		300m		
	1.705MHz-30MH	lz	30		QP		30m		
	30MHz-88MHz	100		QP					
	88MHz-216MHz	150		QP					
	216MHz-960MH	Z	200		QP		3m		
	960MHz-1GHz	500		QP		0			
	Above 1GHz		500		Average				
	5000 Peak				Peak				
Test setup:	For radiated emissions from 9kHz to 30MHz								
	Tum Table EUT								

Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102





For radiated emissions above 1GHz



Test Procedure:

- 1. The EUT was placed on the top of a rotating table (0.8m for below 1G and 1.5m for above 1G) 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.
- 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.
- 5. 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, quasi-peak or average method as specified and then reported in a data sheet.

Test Instruments:

Refer to section 6.0 for details



Report No.: GTS201904000204F

Test mode:	Refer to section 5.2 for details						
Test environment:	Temp.:	25 °C	Humid.:	52%	Press.:	1012mbar	
Test voltage:	AC 120V, 60Hz						
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.

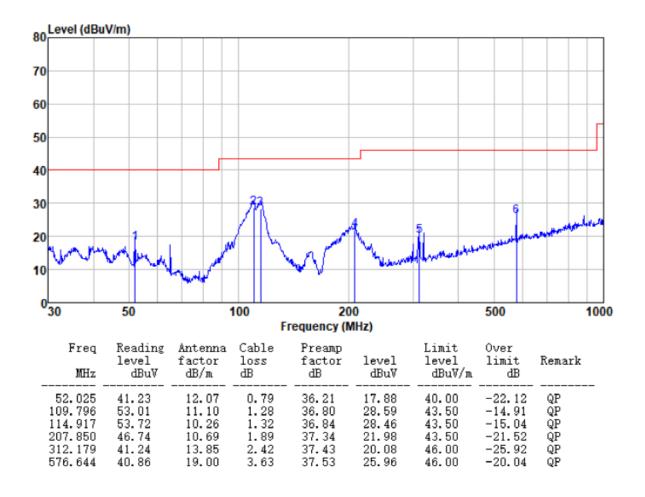
Measurement data:

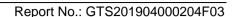
■ 9kHz~30MHz

The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.

■ Below 1GHz

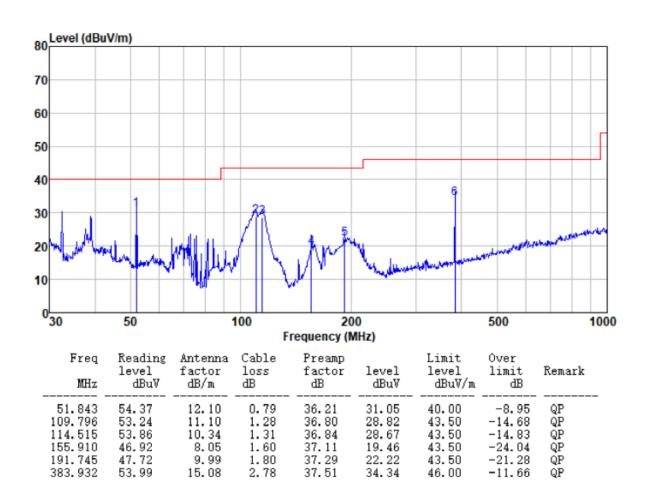
Horizontal:







Vertical:





■ Above 1GHz

Test mode:	ode: 802.11b		Test	Test channel: Lov			Lowest		
Peak value:		•		,					
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization	
4824.00	40.58	31.79	8.62	32.10	48.89	74.00	-25.11	Vertical	
7236.00	34.40	36.19	11.68	31.97	50.30	74.00	-23.70	Vertical	
9648.00	32.84	38.07	14.16	31.56	53.51	74.00	-20.49	Vertical	
12060.00	*					74.00		Vertical	
14472.00	*					74.00		Vertical	
16884.00	*					74.00		Vertical	
4824.00	39.21	31.79	8.62	32.10	47.52	74.00	-26.48	Horizontal	
7236.00	34.13	36.19	11.68	31.97	50.03	74.00	-23.97	Horizontal	
9648.00	32.41	38.07	14.16	31.56	53.08	74.00	-20.92	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	29.64	31.79	8.62	32.10	37.95	54.00	-16.05	Vertical	
7236.00	23.26	36.19	11.68	31.97	39.16	54.00	-14.84	Vertical	
9648.00	23.19	38.07	14.16	31.56	43.86	54.00	-10.14	Vertical	
12060.00	*					54.00		Vertical	
14472.00	*					54.00		Vertical	
16884.00	*					54.00		Vertical	
4824.00	28.73	31.79	8.62	32.10	37.04	54.00	-16.96	Horizontal	
7236.00	22.70	36.19	11.68	31.97	38.60	54.00	-15.40	Horizontal	
9648.00	22.16	38.07	14.16	31.56	42.83	54.00	-11.17	Horizontal	
12060.00	*					54.00		Horizontal	
14472.00	*					54.00		Horizontal	
16884.00	*					54.00		Horizontal	

Notes:

- 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:	t mode: 802.11b				Test channel: Middle				е	
Peak value:							·			-1
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Prea Fac (dl	tor	Level (dBuV/m)	Limit (dBu)		Over Limit (dB)	polarization
4874.00	39.59	31.85	8.66	32.	12	47.98	74.	00	-26.02	Vertical
7311.00	34.44	36.37	11.71	31.	91	50.61	74.	00	-23.39	Vertical
9748.00	33.84	38.27	14.25	31.	56	54.80	74.	00	-19.20	Vertical
12185.00	*						74.	00		Vertical
14622.00	*						74.	00		Vertical
17059.00	*						74.	00		Vertical
4874.00	40.03	31.85	8.66	32.	12	48.42	74.	00	-25.58	Horizontal
7311.00	33.06	36.37	11.71	31.	91	49.23	74.	00	-24.77	Horizontal
9748.00	33.72	38.27	14.25	31.	56	54.68	74.	00	-19.32	Horizontal
12185.00	*						74.	00		Horizontal
14622.00	*						74.	00		Horizontal
17059.00	*						74.	00		Horizontal

Average value:

Average val	uc.							
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	30.42	31.85	8.66	32.12	38.81	54.00	-15.19	Vertical
7311.00	22.75	36.37	11.71	31.91	38.92	54.00	-15.08	Vertical
9748.00	23.09	38.27	14.25	31.56	44.05	54.00	-9.95	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	30.13	31.85	8.66	32.12	38.52	54.00	-15.48	Horizontal
7311.00	22.15	36.37	11.71	31.91	38.32	54.00	-15.68	Horizontal
9748.00	23.43	38.27	14.25	31.56	44.39	54.00	-9.61	Horizontal
12185.00	*					54.00		Horizontal
14622.00	*			_		54.00		Horizontal
17059.00	*					54.00		Horizontal

- 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:		802.11b		Test	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	45.29	31.90	8.70	32.15	53.74	74.00	-20.26	Vertical
7386.00	35.22	36.49	11.76	31.83	51.64	74.00	-22.36	Vertical
9848.00	37.21	38.62	14.31	31.77	58.37	74.00	-15.63	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	44.53	31.90	8.70	32.15	52.98	74.00	-21.02	Horizontal
7386.00	34.09	36.49	11.76	31.83	50.51	74.00	-23.49	Horizontal
9848.00	33.37	38.62	14.31	31.77	54.53	74.00	-19.47	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	36.17	31.90	8.70	32.15	44.62	54.00	-9.38	Vertical
7386.00	25.13	36.49	11.76	31.83	41.55	54.00	-12.45	Vertical
9848.00	25.71	38.62	14.31	31.77	46.87	54.00	-7.13	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	34.87	31.90	8.70	32.15	43.32	54.00	-10.68	Horizontal
7386.00	23.47	36.49	11.76	31.83	39.89	54.00	-14.11	Horizontal
9848.00	22.62	38.62	14.31	31.77	43.78	54.00	-10.22	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					54.00		Horizontal

^{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		Te	st channel:	lowe	est	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Pream _l Factor (dB)	1 6//61	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	40.00	31.79	8.62	32.10	48.31	74.00	-25.69	Vertical
7236.00	34.03	36.19	11.68	31.97	49.93	74.00	-24.07	Vertical
9648.00	32.58	38.07	14.16	31.56	53.25	74.00	-20.75	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	38.71	31.79	8.62	32.10	47.02	74.00	-26.98	Horizontal
7236.00	33.80	36.19	11.68	31.97	49.70	74.00	-24.30	Horizontal
9648.00	32.17	38.07	14.16	31.56	52.84	74.00	-21.16	Horizontal
12060.00	*					74.00		Horizontal
14472.00	*					74.00		Horizontal
16884.00	*					74.00		Horizontal
Average val	ue:							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Pream _l Factor (dB)	1 6//61	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	29.10	31.79	8.62	32.10	37.41	54.00	-16.59	Vertical
7236.00	22.90	36.19	11.68	31.97	38.80	54.00	-15.20	Vertical
9648.00	22.93	38.07	14.16	31.56	43.60	54.00	-10.40	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertica
4824.00	28.27	31.79	8.62	32.10	36.58	54.00	-17.42	Horizontal
7236.00	22.39	36.19	11.68	31.97	38.29	54.00	-15.71	Horizontal
9648.00	21.92	38.07	14.16	31.56	42.59	54.00	-11.41	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal
16884.00	*					54.00		Horizontal

^{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		
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	39.10	31.85	8.66	32.12	47.49	74.00	-26.51	Vertical
7311.00	34.13	36.37	11.71	31.91	50.30	74.00	-23.70	Vertical
9748.00	33.62	38.27	14.25	31.56	54.58	74.00	-19.42	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	39.62	31.85	8.66	32.12	48.01	74.00	-25.99	Horizontal
7311.00	32.79	36.37	11.71	31.91	48.96	74.00	-25.04	Horizontal
9748.00	33.52	38.27	14.25	31.56	54.48	74.00	-19.52	Horizontal
12185.00	*					74.00		Horizontal
14622.00	*					74.00		Horizontal
17059.00	*					74.00		Horizontal
Average valu	ue:							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	29.98	31.85	8.66	32.12	38.37	54.00	-15.63	Vertical
7311.00	22.46	36.37	11.71	31.91	38.63	54.00	-15.37	Vertical
9748.00	22.88	38.27	14.25	31.56	43.84	54.00	-10.16	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	29.75	31.85	8.66	32.12	38.14	54.00	-15.86	Horizontal
7311.00	21.89	36.37	11.71	31.91	38.06	54.00	-15.94	Horizontal
9748.00	23.24	38.27	14.25	31.56	44.20	54.00	-9.80	Horizontal
12185.00	*					54.00		Horizontal
14622.00	*					54.00		Horizontal
17059.00	*					54.00		Horizontal

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

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



Test mode:		802.11g		Test	channel:	Highe	est	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	44.46	31.90	8.70	32.15	52.91	74.00	-21.09	Vertical
7386.00	34.70	36.49	11.76	31.83	51.12	74.00	-22.88	Vertical
9848.00	36.84	38.62	14.31	31.77	58.00	74.00	-16.00	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	43.83	31.90	8.70	32.15	52.28	74.00	-21.72	Horizontal
7386.00	33.63	36.49	11.76	31.83	50.05	74.00	-23.95	Horizontal
9848.00	33.02	38.62	14.31	31.77	54.18	74.00	-19.82	Horizontal
12310.00	*					74.00		Horizontal
14772.00	*					74.00		Horizontal
17234.00	*					74.00		Horizontal
Average value	ue:							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	35.40	31.90	8.70	32.15	43.85	54.00	-10.15	Vertical
7386.00	24.62	36.49	11.76	31.83	41.04	54.00	-12.96	Vertical
9848.00	25.35	38.62	14.31	31.77	46.51	54.00	-7.49	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	34.21	31.90	8.70	32.15	42.66	54.00	-11.34	Horizontal
7386.00	23.03	36.49	11.76	31.83	39.45	54.00	-14.55	Horizontal
9848.00	22.29	38.62	14.31	31.77	43.45	54.00	-10.55	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					54.00		Horizontal

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

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



Test mode:		802.11n(H	T20)	Test	channel:	Lowe	st	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	39.96	31.79	8.62	32.10	48.27	74.00	-25.73	Vertical
7236.00	34.01	36.19	11.68	31.97	49.91	74.00	-24.09	Vertical
9648.00	32.56	38.07	14.16	31.56	53.23	74.00	-20.77	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	38.68	31.79	8.62	32.10	46.99	74.00	-27.01	Horizontal
7236.00	33.78	36.19	11.68	31.97	49.68	74.00	-24.32	Horizontal
9648.00	32.15	38.07	14.16	31.56	52.82	74.00	-21.18	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	29.07	31.79	8.62	32.10	37.38	54.00	-16.62	Vertical
7236.00	22.88	36.19	11.68	31.97	38.78	54.00	-15.22	Vertical
9648.00	22.92	38.07	14.16	31.56	43.59	54.00	-10.41	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	28.24	31.79	8.62	32.10	36.55	54.00	-17.45	Horizontal
7236.00	22.37	36.19	11.68	31.97	38.27	54.00	-15.73	Horizontal
9648.00	21.91	38.07	14.16	31.56	42.58	54.00	-11.42	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal
16884.00	*					54.00		Horizontal

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

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



Test mode:		802.11n(H	T20)	Test	channel:	Midd		
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	39.08	31.85	8.66	32.12	47.47	74.00	-26.53	Vertical
7311.00	34.12	36.37	11.71	31.91	50.29	74.00	-23.71	Vertical
9748.00	33.61	38.27	14.25	31.56	54.57	74.00	-19.43	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	39.60	31.85	8.66	32.12	47.99	74.00	-26.01	Horizontal
7311.00	32.78	36.37	11.71	31.91	48.95	74.00	-25.05	Horizontal
9748.00	33.51	38.27	14.25	31.56	54.47	74.00	-19.53	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	29.95	31.85	8.66	32.12	38.34	54.00	-15.66	Vertical
7311.00	22.44	36.37	11.71	31.91	38.61	54.00	-15.39	Vertical
9748.00	22.87	38.27	14.25	31.56	43.83	54.00	-10.17	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	29.72	31.85	8.66	32.12	38.11	54.00	-15.89	Horizontal
7311.00	21.87	36.37	11.71	31.91	38.04	54.00	-15.96	Horizontal
9748.00	23.23	38.27	14.25	31.56	44.19	54.00	-9.81	Horizontal
12185.00	*					54.00		Horizontal
14622.00	*					54.00		Horizontal
17059.00	*					54.00		Horizontal

^{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(HT20)			Test channel: High			Highe	est	
Peak value:				•						<u>'</u>
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Prea Fac (dE	tor	Level (dBuV/m)	Limit (dBu)	-	Over Limit (dB)	polarization
4924.00	44.41	31.90	8.70	32.	15	52.86	74.	00	-21.14	Vertical
7386.00	34.67	36.49	11.76	31.	83	51.09	74.	00	-22.91	Vertical
9848.00	36.81	38.62	14.31	31.	77	57.97	74.	00	-16.03	Vertical
12310.00	*						74.	00		Vertical
14772.00	*						74.	00		Vertical
17234.00	*						74.	00		Vertical
4924.00	43.79	31.90	8.70	32.	15	52.24	74.	00	-21.76	Horizontal
7386.00	33.60	36.49	11.76	31.	83	50.02	74.	00	-23.98	Horizontal
9848.00	33.00	38.62	14.31	31.	77	54.16	74.	00	-19.84	Horizontal
12310.00	*						74.	00		Horizontal
14772.00	*						74.	00		Horizontal
17234.00	*						74.	00		Horizontal

Average value:

Average val	uc.							
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	35.36	31.90	8.70	32.15	43.81	54.00	-10.19	Vertical
7386.00	24.59	36.49	11.76	31.83	41.01	54.00	-12.99	Vertical
9848.00	25.33	38.62	14.31	31.77	46.49	54.00	-7.51	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	34.17	31.90	8.70	32.15	42.62	54.00	-11.38	Horizontal
7386.00	23.00	36.49	11.76	31.83	39.42	54.00	-14.58	Horizontal
9848.00	22.27	38.62	14.31	31.77	43.43	54.00	-10.57	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*			_	_	54.00		Horizontal
17234.00	*					54.00		Horizontal

- 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	Test channel: Lowe			
Peak value:				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
4844.00	39.32	31.81	8.63	32.11	47.65	74.00	-26.35	Vertical
7266.00	33.60	36.28	11.69	31.94	49.63	74.00	-24.37	Vertical
9688.00	32.27	38.13	14.21	31.52	53.09	74.00	-20.91	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4844.00	38.14	31.81	8.63	32.11	46.47	74.00	-27.53	Horizontal
7266.00	33.43	36.28	11.69	31.94	49.46	74.00	-24.54	Horizontal
9688.00	31.88	38.13	14.21	31.52	52.70	74.00	-21.30	Horizontal
12060.00	*					74.00		Horizontal
14472.00	*					74.00		Horizontal
16884.00	*					74.00		Horizontal
Average val	ue:							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4844.00	28.48	31.81	8.63	32.11	36.81	54.00	-17.19	Vertical
7266.00	22.49	36.28	11.69	31.94	38.52	54.00	-15.48	Vertical
9688.00	22.64	38.13	14.21	31.52	43.46	54.00	-10.54	Vertical
			1	1	1		1	

Notes:

12060.00

14472.00

16884.00

4844.00

7266.00

9688.00

12060.00

14472.00

16884.00

8.63

11.69

14.21

32.11

31.94

31.52

36.06

38.06

42.47

31.81

36.28

38.13

*

27.73

22.03

21.65

*

*

*

-17.94

-15.94

-11.53

54.00

54.00

54.00

54.00

54.00

54.00

54.00

54.00

54.00

Vertical

Vertical

Vertical

Horizontal

Horizontal

Horizontal

Horizontal

Horizontal

Horizontal

^{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:		Middle			
Peak value:										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Prea Fact (dB	or	Level (dBuV/m)	Limit (dBu\		Over Limit (dB)	polarization
4874.00	38.54	31.85	8.66	32.1	12	46.93	74.	00	-27.07	Vertical
7311.00	33.78	36.37	11.71	31.9	91	49.95	74.	00	-24.05	Vertical
9748.00	33.37	38.27	14.25	31.5	56	54.33	74.	00	-19.67	Vertical
12185.00	*						74.	00		Vertical
14622.00	*						74.	00		Vertical
17059.00	*						74.	00		Vertical
4874.00	39.15	31.85	8.66	32.1	12	47.54	74.	00	-26.46	Horizontal
7311.00	32.48	36.37	11.71	31.9	91	48.65	74.	00	-25.35	Horizontal
9748.00	33.28	38.27	14.25	31.5	56	54.24	74.	00	-19.76	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)	Prea Fact (dB	or	Level (dBuV/m)	Limit (dBu\		Over Limit (dB)	polarization
4874.00	29.46	31.85	8.66	32.1	12	37.85	54.	00	-16.15	Vertical
7311.00	22.11	36.37	11.71	31.9	91	38.28	54.	00	-15.72	Vertical
9748.00	22.64	38.27	14.25	31.5	56	43.60	54.	00	-10.40	Vertical
12185.00	*						54.	00		Vertical
14622.00	*						54.	00		Vertical
17059.00	*						54.	00		Vertical
4874.00	29.30	31.85	8.66	32.1	12	37.69	54.	00	-16.31	Horizontal
7311.00	21.58	36.37	11.71	31.9	91	37.75	54.	00	-16.25	Horizontal
9748.00	23.01	38.27	14.25	31.5	6	43.97	54.	00	-10.03	Horizontal
12185.00	*						54.	00		Horizontal
14622.00	*						54.	00		Horizontal
17059.00	*						54.	00		Horizontal

^{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)		T	Test channel:			Highe		
Peak value:										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Pream Facto (dB)	or (dB)	evel uV/m)	Limit Line (dBuV/m)		Over Limit (dB)	polarization
4904.00	43.49	31.88	8.68	32.13	3 51	.92	74.00		-22.08	Vertical
7356.00	34.08	36.45	11.75	31.86	5 50).42	74.00		-23.58	Vertical
9808.00	36.40	38.43	14.29	31.68	3 57	7.44	74.00		-16.56	Vertical
12310.00	*							74.00		Vertical
14772.00	*							74.00		Vertical
17234.00	*							74.00		Vertical
4904.00	43.01	31.88	8.68	32.13	3 51	74.00		00	-22.56	Horizontal
7356.00	33.10	36.45	11.75	31.86	6 49).44	74.00		-24.56	Horizontal
9808.00	32.62	38.43	14.29	31.68	3 53	3.66	74.00		-20.34	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)	Pream Facto (dB)	or dBi	evel uV/m)	Limit (dBu\		Over Limit (dB)	polarization
4904.00	34.51	31.88	8.68	32.13	3 42	2.94	54.	00	-11.06	Vertical
7356.00	24.03	36.45	11.75	31.86	6 40).37	54.00		-13.63	Vertical
9808.00	24.93	38.43	14.29	31.68	3 45	5.97	54.	00	-8.03	Vertical
12310.00	*						54.	00		Vertical
14772.00	*						54.	00		Vertical
17234.00	*						54.	00		Vertical
4904.00	33.45	31.88	8.68	32.13	3 41	.88	54.	00	-12.12	Horizontal
7356.00	22.51	36.45	11.75	31.86	38	3.85	54.	00	-15.15	Horizontal
9808.00	21.90	38.43	14.29	31.68	3 42	2.94	54.	00	-11.06	Horizontal
12310.00	*						54.	00		Horizontal
14772.00	*						54.	00		Horizontal
17234.00	*						54.	00		Horizontal

^{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

Reference to the appendix I for details.

9 EUT Constructional Details

Reference to the appendix II for details.

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