

Global United Technology Services Co., Ltd.

Report No.: GTS201608000138E01

FCC Report (WIFI)

Applicant: TOEC TECHNOLOGY CO., LTD.

Address of Applicant: NO.6 Taishan Rd., Hexi District, Tianjin, China

Equipment Under Test (EUT)

Product Name: Portable Printer

Model No.: OEP103W

Trade mark: TOEC

FCC ID: Y9K-OEP103

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.247:2015

Date of sample receipt: August 15, 2016

Date of Test: August 17-October 13, 2016

Date of report issued: October 14, 2016

Test Result: PASS *

Authorized Signature:

Robinson Lo
Laboratory Manager

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

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



2 Version

Version No.	Date	Description
00	October 14, 2016	Original

Prepared By:	Bolward. Pan	Date:	October 14, 2016
	Project Engineer		
Check By:	Andy wa	Date:	October 14, 2016
	Roviower		



3 Contents

			Page
1	COV	ER PAGE	1
2	VER	SION	2
3	CON	TENTS	3
4	TES	T SUMMARY	4
5	GEN	ERAL INFORMATION	5
	5.1	CLIENT INFORMATION	5
	5.2	GENERAL DESCRIPTION OF EUT	5
	5.3	TEST MODE	6
	5.4	DESCRIPTION OF SUPPORT UNITS	
	5.5	TEST FACILITY	
	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	CONDUCTED EMISSIONS	
	7.3	CONDUCTED PEAK OUTPUT POWER	
	7.4	CHANNEL BANDWIDTH	
	7.5	POWER SPECTRAL DENSITY	
	7.6	BAND EDGES	
	7.6.1		
	7.6.2 7.7		
	7.7.1	Spurious Emission	
	7.7.1		
0			
8	IES	T SETUP PHOTO	52
۵	EUT	CONSTRUCTIONAL DETAILS	52



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	N/A
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.

Remark: Test according to ANSI C63.4:2014 and ANSI C63.10:2013.

Measurement Uncertainty

Test Item	Frequency Range	Measurement Uncertainty	Notes
Radiated Emission	9kHz ~ 30MHz	± 4.34dB	(1)
Radiated Emission	30MHz ~ 1000MHz	± 4.24dB	(1)
Radiated Emission	1GHz ~ 26.5GHz	± 4.68dB	(1)
AC Power Line Conducted Emission	0.15MHz ~ 30MHz	± 3.45dB	(1)



5 General Information

5.1 Client Information

Applicant:	TOEC TECHNOLOGY CO., LTD.
Address of Applicant:	NO.6 Taishan Rd., Hexi District, Tianjin, China
Manufacturer/ Factory:	TOEC TECHNOLOGY CO., LTD.
Address of	NO.6 Taishan Rd., Hexi District, Tianjin, China
Manufacturer/ Factory:	

5.2 General Description of EUT

Product Name:	Portable Printer	
Model No.:	OEP103W	
Operation Frequency:	802.11b/802.11g/802.11n(HT20): 2412MHz~2462MHz	
	802.11n(HT40): 2422MHz~2452MHz	
Channel numbers:	802.11b/802.11g /802.11n(HT20): 11	
	802.11n(HT40): 7	
Channel separation:	5MHz	
Modulation technology:	802.11b: Direct Sequence Spread Spectrum (DSSS)	
	802.11g/802.11n(H20)/802.11n(H40):	
	Orthogonal Frequency Division Multiplexing (OFDM)	
Antenna Type:	Ceramic antenna	
Antenna gain:	3.0dBi	
Power supply:	AC/DC Adapter	
	Model No.: ZF120A-1406000	
	Input: AC 100-240V, 50/60Hz, 1.5A	
	Output: DC 14V, 6A	



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:

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

5.3 Test mode

Transmitting mode	Keep the EUT in continuously transmitting mode
-------------------	--

Remark: During the test, the 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:

Per-scan all kind of data rate in lowest channel, and found the follow list which it was worst case.

		•		
Mode	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)
Data rate	1Mbps	6Mbps	6.5Mbps	13Mbps

5.4 Description of Support Units

None.



5.5 Test Facility

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

• 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 22, 2016.

• 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, August 15, 2016.

5.6 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

Radi	Radiated Emission:								
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)			
1	3m Semi- Anechoic Chamber	ZhongYu Electron	9.2(L)*6.2(W)* 6.4(H)	GTS250	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	Spectrum Analyzer	Agilent	E4440A	GTS533	June 29 2016	June 28 2017			
4	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	June 29 2016	June 28 2017			
5	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	June 29 2016	June 28 2017			
6	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	9120D-829	GTS208	June 29 2016	June 28 2017			
7	Horn Antenna	ETS-LINDGREN	3160	GTS217	June 29 2016	June 28 2017			
8	EMI Test Software	AUDIX	E3	N/A	N/A	N/A			
9	Coaxial Cable	GTS	N/A	GTS213	June 29 2016	June 28 2017			
10	Coaxial Cable	GTS	N/A	GTS211	June 29 2016	June 28 2017			
11	Coaxial cable	GTS	N/A	GTS210	June 29 2016	June 28 2017			
12	Coaxial Cable	GTS	N/A	GTS212	June 29 2016	June 28 2017			
13	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	June 29 2016	June 28 2017			
14	Amplifier(2GHz-20GHz)	HP	8349B	GTS206	June 29 2016	June 28 2017			
15	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June 29 2016	June 28 2017			
16	Band filter	Amindeon	82346	GTS219	June 29 2016	June 28 2017			
17	Power Meter	Anritsu	ML2495A	GTS540	June 29 2016	June 28 2017			
18	Power Sensor	Anritsu	MA2411B	GTS541	June 29 2016	June 28 2017			

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	7.0(L)x3.0(W)x3.0(H)	GTS264	May.16 2014	May.15 2019	
2	EMI Test Receiver	Rohde & Schwarz	ESCS30	GTS223	June 29 2016	June 28 2017	
3	10dB Pulse Limita	Rohde & Schwarz	N/A	GTS224	June 29 2016	June 28 2017	
4	Coaxial Switch	ANRITSU CORP	MP59B	GTS225	June 29 2016	June 28 2017	
5	LISN	SCHWARZBECK MESS-ELEKTRONIK	NSLK 8127	GTS226	June 29 2016	June 28 2017	
6	Coaxial Cable	GTS	N/A	GTS227	June 29 2016	June 28 2017	
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	June 29 2016	June 28 2017	



7 Test results and Measurement Data

7.1 Antenna requirement

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

15.203 requirement:

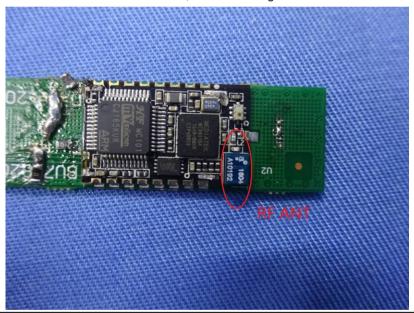
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit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

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

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

E.U.T Antenna:

The antenna is Ceramic antenna, the best case gain of the antenna is 3.0dBi





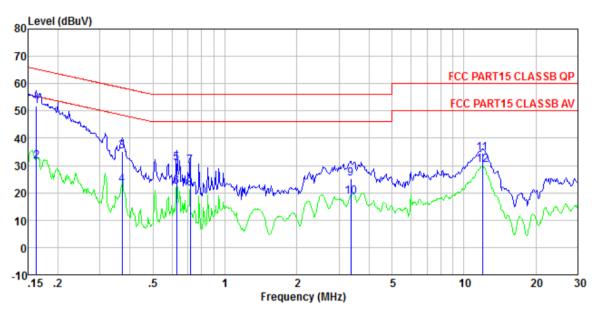
7.2 Conducted Emissions

Test Method: ANSI C63.10:2013 Test Frequency Range: Class B 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 5-30 Decreases with the logarithm of the frequency. Reference Plane LISN AUX Equipment Filter 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 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.		I = 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			
Test Frequency Range: Class / Severity: Class B 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 5-30 6 0 50 * Decreases with the logarithm of the frequency. Test setup: Reference Plane LISN Aux Feduration Plane Full Entire 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 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 Requirement:	FCC Part15 C Section 15.207			
Class / Severity: 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. Test setup: Reference Plane LISN AUX Equipment List In Bingulation plane List In Bingulation Plane List In Bingulation Network Feet list In Bingulation 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 Lisk 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. Refer to section 6.0 for details	Test Method:	ANSI C63.10:2013			
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 power Filter Ac power LISN Limit (BuV) Quasi-peak Average 0.15-0.5 66 to 56* 56 to 46* 5-30 60 50 * Decreases with the logarithm of the frequency. Reference Plane LISN Filter Ac power LISN Limit (Bully) Receiver Test setup: 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 of 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 Frequency Range:	150KHz to 30MHz			
Limit: Frequency range (MHz) Quasi-peak Average 0.15-0.5 66 to 56* 56 to 46* 0.5-30 60 50 * Decreases with the logarithm of the frequency. Reference Plane LISN AUX EQUIPMENT Fest table/Insulation plane Receiver Test procedure: 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	Class / Severity:	Class B			
Test setup: Test setup: Test setup: 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 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 for the measuring equipment. 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	Receiver setup:	RBW=9KHz, VBW=30KHz, Sv	weep time=auto		
Test setup: Comparison of the first procedure: Test procedure	Limit:	Fraguency range (MHz)	Limit (c	dBuV)	
Test setup: Test setup: Reference Plane LISN		, , ,		-	
Test setup: Reference Plane					
*Decreases with the logarithm of the frequency. Reference Plane LISN AUX Equipment Remark E.U.T. Equipment Under Test LISN Line Impedence Stabilization Network Test table height=0.8m 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 setup: Reference Plane LISN Ac power Remark EUT Equipment Under Test LISN Line impedence Stabilization Network Test table height 50 im 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 50ohm/50uH coupling impedance for the measuring equipment. 2. 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). 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				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	T	i i	•		
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 setup:	Reference Plane		_	
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 a 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		AUX Equipment Test table/Insulation plane Remark E.U.T. Equipment Under Test LISN: Line Impedence Stabilization Network			
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	Test procedure:	line impedance stabilization 50ohm/50uH coupling impe	n network (L.I.S.N.). Thedance for the measuri	nis provides a ing equipment.	
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		LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and			
	interference. In order to find the maximum emission, the relations of equipment and all of the interface cables must be				
Toot mode: Poter to coption 5.2 for details	Test Instruments:	Refer to section 6.0 for details			
rest mode. Refer to section 5.5 for details	Test mode:	Refer to section 5.3 for details			
Test results: Pass	Test results:	Pass			



Measurement data

Line:



Site : Shielded room

Condition : FCC PART15 CLASSB QP LINE

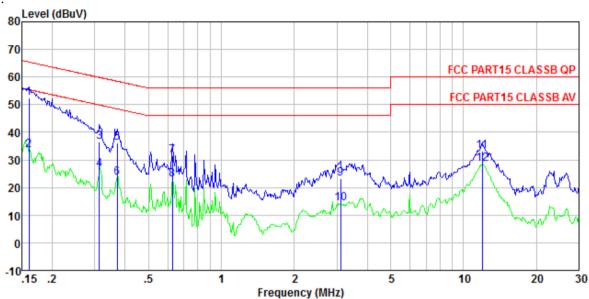
Job No. : 0138 Test mode : WiFi mode Test Engineer: Boy

	Freq	Řead Level	Cable Loss	LISN Factor	Leve1	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.162	51.57	0.12	0.15	51.84	65.34	-13.50	QP
2 3	0.162	31. 18	0.12	0.15	31.45	55.34	-23.89	Average
3	0.371	34.96	0.10	0.11	35.17	58.47	-23.30	QP
4 5	0.371	22.68	0.10	0.11	22.89	48.47	-25.58	Average
5	0.627	30.66	0.12	0.13	30.91	56.00	-25.09	QP
6	0.627	22.01	0.12	0.13	22.26	46.00	-23.74	Average
7	0.716	29.57	0.13	0.14	29.84	56.00	-26.16	QP
8	0.716	21.35	0.13	0.14	21.62	46.00	-24.38	Average
9	3.364	24.86	0.15	0.18	25. 19	56.00	-30.81	QP
10	3.364	18. 13	0.15	0.18	18.46	46.00	-27.54	Average
11	11.933	33.82	0.20	0.37	34.39	60.00	-25.61	QP
12	11. 933	29.55	0.20	0.37	30.12	50.00	-19.88	Average

Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102 Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



Neutral:



Site : Shielded room

Condition : FCC PART15 CLASSB QP NEUTRAL

Job No. : 0138 Test mode : WiFi mode Test Engineer: Boy

	Freq	Řead Level	Cable Loss	LISN Factor	Leve1	Limit Line	Over Limit	Remark
	MHz	dBuV	d₿	d₿	dBuV	dBuV	d₿	
1 2 3 4 5 6 7	0. 161 0. 161 0. 313 0. 313 0. 371 0. 371 0. 627	52. 12 33. 19 36. 37 26. 35 35. 86 23. 26 31. 45	0. 12 0. 12 0. 10 0. 10 0. 10 0. 10 0. 10 0. 12	0.07 0.07 0.06 0.06 0.06 0.06	52. 31 33. 38 36. 53 26. 51 36. 02 23. 42 31. 64	55. 43 59. 88 49. 88 58. 47 48. 47	-23.35 -23.37 -22.45	Áverage QP Average QP Average
8 9 10 11 12	0. 627 3. 107 3. 107 11. 933 11. 933	22. 79 22. 88 13. 95 32. 67 28. 12	0. 12 0. 15 0. 15 0. 20 0. 20	0. 07 0. 12 0. 12 0. 32 0. 32	22. 98 23. 15 14. 22 33. 19 28. 64	46.00 56.00 46.00 60.00	-23. 02 -32. 85 -31. 78 -26. 81	Average QP Average

Notes:

- 1. An initial pre-scan was performed on the line and neutral lines with peak detector.
- 2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3. Final Level =Receiver Read level + LISN Factor + Cable Loss



7.3 Conducted Peak Output Power

Test Requirement:	FCC Part15 C Section 15.247 (b)(3)		
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance V03		
Limit:	30dBm		
Test setup:	Power Meter 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		
	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	Limit(abin)	Nesult
Lowest	8.51	8.11	8.04	7.64		
Middle	8.60	8.12	8.16	7.90	30.00	Pass
Highest	8.56	8.04	8.11	7.97		



7.4 Channel Bandwidth

Test Requirement:	FCC Part15 C Section 15.247 (a)(2)		
Test Method:	ANSI C63.10:2013 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		

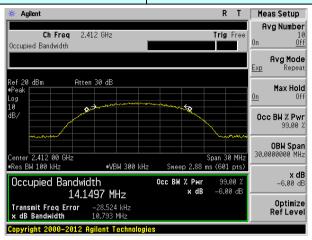
Measurement Data

Test CH		Channel B	Limit(KHz)	Result		
	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	LIIIII(KI IZ)	rvesuit
Lowest	10.793	16.529	17.778	36.294		
Middle	10.393	16.074	17.709	35.285	>500	Pass
Highest	9.762	15.177	15.186	36.141		

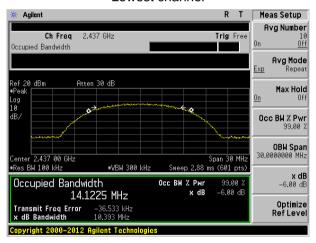
Test plot as follows:



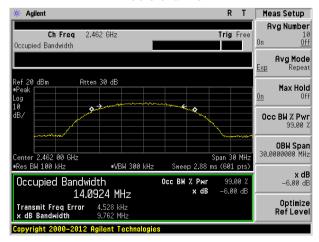
Test mode: 802.11b



Lowest channel



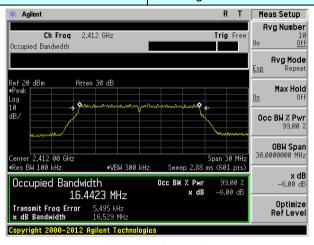
Middle channel



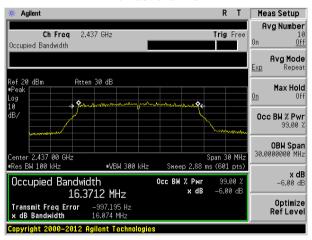
Highest channel



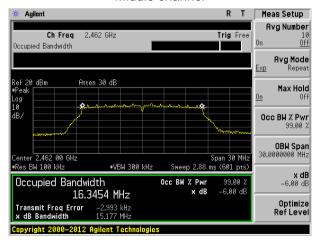
Test mode: 802.11g



Lowest channel



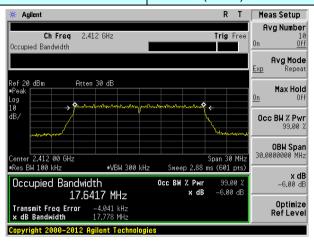
Middle channel



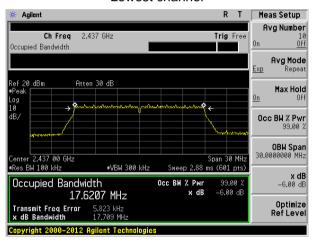
Highest channel



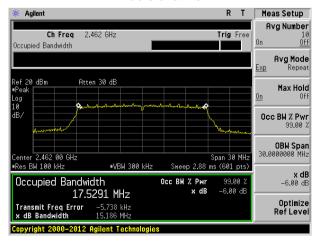
Test mode: 802.11n(HT20)



Lowest channel



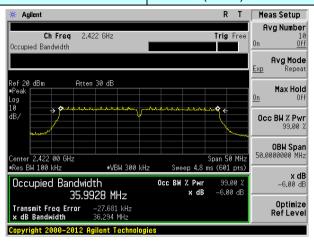
Middle channel



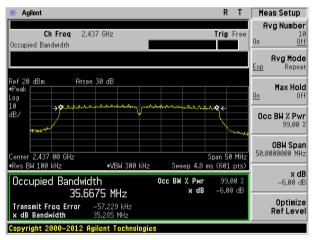
Highest channel



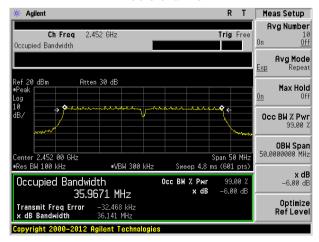
Test mode: 802.11n(HT40)



Lowest channel



Middle channel



Highest channel



7.5 Power Spectral Density

Test Requirement:	FCC Part15 C Section 15.247 (e)	
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance V03	
Limit:	8dBm/3KHz	
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	

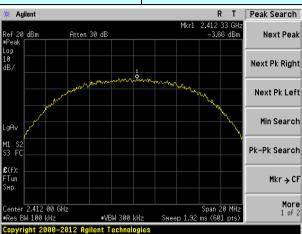
Measurement Data

Test CH		Power Spe	Limit	Result		
Test CH	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	(dBm/3kHz)	Nesuit
Lowest	-3.66	-4.55	-4.07	-8.31		
Middle	-3.11	-3.18	-4.47	-7.29	8.00	Pass
Highest	-3.56	-4.01	-4.15	-9.20		

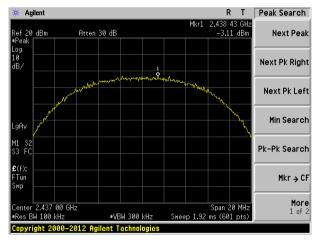


Test plot as follows:

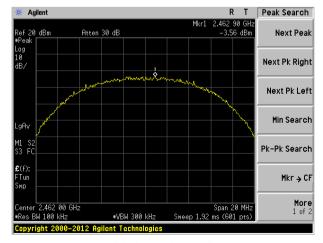
Test mode: 802.11b



Lowest channel



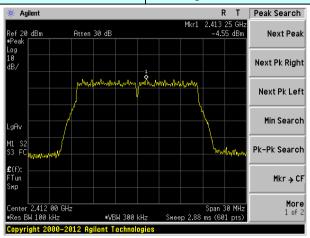
Middle channel



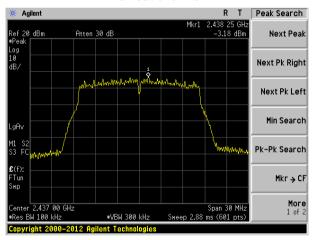
Highest channel



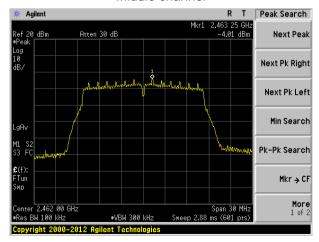
Test mode: 802.11g



Lowest channel



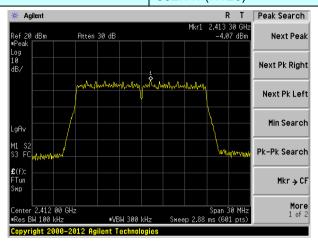
Middle channel



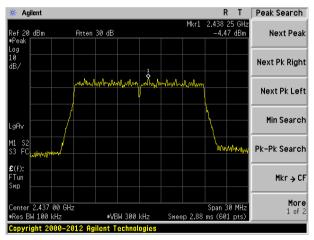
Highest channel



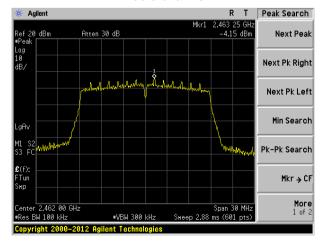
Test mode: 802.11n(HT20)



Lowest channel



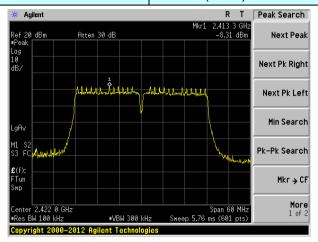
Middle channel



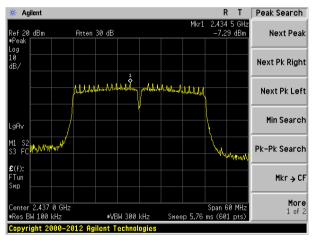
Highest channel



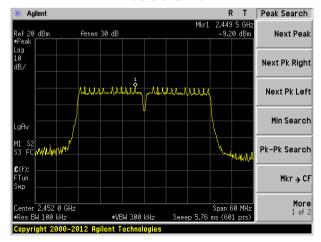
Test mode: 802.11n(HT40)



Lowest channel



Middle channel



Highest channel



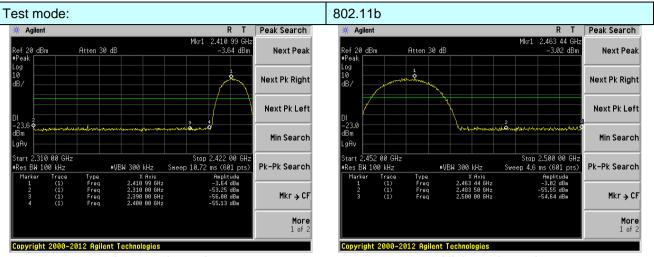
7.6 Band edges

7.6.1 Conducted Emission Method

Toot Poquiroment:	FCC Part15 C Section 15.247 (d)		
Test Requirement:			
Test Method:	ANSI C63.10:2013 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:

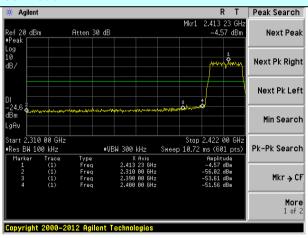


Lowest channel

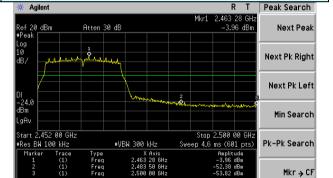
Highest channel 802.11g

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Test mode:



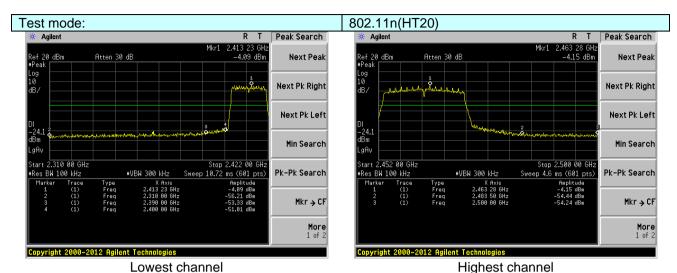
Lowest channel



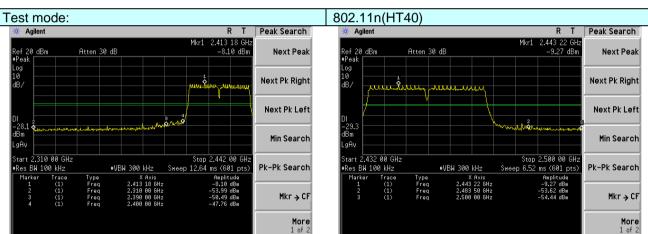
Highest channel

More 1 of 2





20WOOL OHAIIIIOI



Lowest channel

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Highest channel

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7.6.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209 and 15.205							
Test Method:	ANSI C63.10:2013							
Test Frequency Range:	All of the restrict bands were tested, only the worst band's (2310MHz to							
	2500MHz) data was showed.							
Test site:	Measurement Distance: 3m							
Receiver setup:	Frequency	Detector	RBW	VBW	Value			
	Above 1GHz	Peak	1MHz	3MHz	Peak			
	Above Toriz	RMS	1MHz	3MHz	Average			
Limit:	Freque	ency	Limit (dBuV/		Value			
	Above 1	GH ₇	54.0		Average			
	7100001	OTIZ	74.0	0	Peak			
Test setup:	Antenna Tower Horn Antenna Spectrum Analyzer Turn Table Im Amplifier							
Test Procedure:	 The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasipeak or average method as specified and then reported in a data sheet. The radiation measurements are performed in X, Y, Z axis positioning. And found the Y axis positioning which it is worse case, only the test 							
Test Instruments:	Refer to section		led in the repos s	-				
Test mode:	Refer to section							
Test results:	Pass							

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



Lowest

Measurement data:

Test mode:

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 channel:

802.11b

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	51.90	27.59	5.38	34.01	50.86	74.00	-23.14	Horizontal
2400.00	61.00	27.58	5.39	34.01	59.96	74.00	-14.04	Horizontal
2390.00	53.60	27.59	5.38	34.01	52.56	74.00	-21.44	Vertical
2400.00	62.86	27.58	5.39	34.01	61.82	74.00	-12.18	Vertical
Average va	lue:							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	38.59	27.59	5.38	34.01	37.55	54.00	-16.45	Horizontal
2400.00	46.91	27.58	5.39	34.01	45.87	54.00	-8.13	Horizontal
2390.00	40.43	27.59	5.38	34.01	39.39	54.00	-14.61	Vertical
2400.00	48.05	27.58	5.39	34.01	47.01	54.00	-6.99	Vertical
Test mode:		802.1	1b	Tes	st 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	52.66	27.53	5.47	33.92	51.74	74.00	-22.26	Horizontal
2500.00	48.41	27.55	5.49	29.93	51.52	74.00	-22.48	Horizontal
2483.50	54.97	27.53	5.47	33.92	54.05	74.00	-19.95	Vertical
2500.00	50.97	27.55	5.49	29.93	54.08	74.00	-19.92	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	38.99	27.53	5.47	33.92	38.07	54.00	-15.93	Horizontal
2500.00	35.05	27.55	5.49	29.93	38.16	54.00	-15.84	Horizontal
2483.50	40.96	27.53	5.47	33.92	40.04	54.00	-13.96	Vertical
2500.00	36.94	27.55	5.49	29.93	40.05	54.00	-13.95	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.



Test mode:		802.1	1g	Test channel:		L	_owest	
Peak value:				•		•		
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	50.44	27.59	5.38	34.01	49.40	74.00	-24.60	Horizontal
2400.00	59.05	27.58	5.39	34.01	58.01	74.00	-15.99	Horizontal
2390.00	52.04	27.59	5.38	34.01	51.00	74.00	-23.00	Vertical
2400.00	60.52	27.58	5.39	34.01	59.48	74.00	-14.52	Vertical
Average va	lue:							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	37.55	27.59	5.38	34.01	36.51	54.00	-17.49	Horizontal
2400.00	45.71	27.58	5.39	34.01	44.67	54.00	-9.33	Horizontal
2390.00	39.27	27.59	5.38	34.01	38.23	54.00	-15.77	Vertical
2400.00	46.74	27.58	5.39	34.01	45.70	54.00	-8.30	Vertical
Test mode:	Test mode: 802.11g		Te	st 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	50.58	27.53	5.47	33.92	49.66	74.00	-24.34	Horizontal
2500.00	46.79	27.55	5.49	29.93	49.90	74.00	-24.10	Horizontal
2483.50	52.59	27.53	5.47	33.92	51.67	74.00	-22.33	Vertical
2500.00	49.07	27.55	5.49	29.93	52.18	74.00	-21.82	Vertical
Average va	lue:	,		7	1	ı	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	37.73	27.53	5.47	33.92	36.81	54.00	-17.19	Horizontal
2500.00	34.06	27.55	5.49	29.93	37.17	54.00	-16.83	Horizontal
2483.50	39.57	27.53	5.47	33.92	38.65	54.00	-15.35	Vertical
2500.00	35.90	27.55	5.49	29.93	39.01	54.00	-14.99	Vertical
Remark:								

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

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



Report No.: GTS201608000138E01

Test mode:		802.	11n(HT20)	Test channel:		Lowest			
Peak value:		•					<u>'</u>		
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Prear Facto (dB	or	Level (dBuV/m)	Limit Line (dBuV/m)	I I imit	Polarization
2390.00	50.53	27.59	5.38	34.0	1	49.49	74.00	-24.51	Horizontal
2400.00	59.17	27.58	5.39	34.0	1	58.13	74.00	-15.87	Horizontal
2390.00	52.13	27.59	5.38	34.0	1	51.09	74.00	-22.91	Vertical
2400.00	60.66	27.58	5.39	34.0	1	59.62	74.00	-14.38	Vertical
Average va	lue:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Prear Facto (dB	or	Level (dBuV/m)	Limit Line (dBuV/m)	I I imit	Polarization
2390.00	37.61	27.59	5.38	34.0	1	36.57	54.00	-17.43	Horizontal
2400.00	45.79	27.58	5.39	34.0	1	44.75	54.00	-9.25	Horizontal
2390.00	39.34	27.59	5.38	34.0	1	38.30	54.00	-15.70	Vertical
2400.00	46.83	27.58	5.39	34.0	1	45.79	54.00	-8.21	Vertical
Test mode:	Test mode: 802.11n(HT20)			Tes	st channel:		Highest		
Peak value:	1			1		,		_	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Prear Facto (dB	or	Level (dBuV/m)	Limit Line (dBuV/m)	I I imit	Polarization
2483.50	50.71	27.53	5.47	33.9	2	49.79	74.00	-24.21	Horizontal
2500.00	46.89	27.55	5.49	29.9	3	50.00	74.00	-24.00	Horizontal
2483.50	52.73	27.53	5.47	33.9	2	51.81	74.00	-22.19	Vertical
2500.00	49.19	27.55	5.49	29.9	3	52.30	74.00	-21.70	Vertical
Average va	lue:	1	1	ı		7	7	-	,
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Prear Facto (dB	or	Level (dBuV/m)	Limit Line (dBuV/m)	I I imit	Polarization
2483.50	37.81	27.53	5.47	33.9	2	36.89	54.00	-17.11	Horizontal
2500.00	34.12	27.55	5.49	29.9	3	37.23	54.00	-16.77	Horizontal
2483.50	39.66	27.53	5.47	33.9	2	38.74	54.00	-15.26	Vertical
2500.00	35.96	27.55	5.49	29.9	3	39.07	54.00	-14.93	Vertical

Remark:

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



Test mode:

Report No.: GTS201608000138E01

Lowest

restinioue.		002.1	111(11140)	16	si channei.	L	-owesi	
Peak value	•							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	49.69	27.59	5.38	34.01	48.65	74.00	-25.35	Horizontal
2400.00	58.05	27.58	5.39	34.01	57.01	74.00	-16.99	Horizontal
2390.00	51.24	27.59	5.38	34.01	50.20	74.00	-23.80	Vertical
2400.00	59.32	27.58	5.39	34.01	58.28	74.00	-15.72	Vertical
Average va	lue:			•	•	•	•	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	37.02	27.59	5.38	34.01	35.98	54.00	-18.02	Horizontal
2400.00	45.10	27.58	5.39	34.01	44.06	54.00	-9.94	Horizontal
2390.00	38.68	27.59	5.38	34.01	37.64	54.00	-16.36	Vertical
2400.00	46.07	27.58	5.39	34.01	45.03	54.00	-8.97	Vertical
Test mode:		802.1	1n(HT40)	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	49.51	27.53	5.47	33.92	48.59	74.00	-25.41	Horizontal
2500.00	45.96	27.55	5.49	29.93	49.07	74.00	-24.93	Horizontal
2483.50	51.37	27.53	5.47	33.92	50.45	74.00	-23.55	Vertical
2500.00	48.10	27.55	5.49	29.93	51.21	74.00	-22.79	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	37.08	27.53	5.47	33.92	36.16	54.00	-17.84	Horizontal
2500.00	33.56	27.55	5.49	29.93	36.67	54.00	-17.33	Horizontal
2483.50	38.86	27.53	5.47	33.92	37.94	54.00	-16.06	Vertical
2500.00	35.36	27.55	5.49	29.93	38.47	54.00	-15.53	Vertical
Remark:								

Test channel:

802.11n(HT40)

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.



7.7 Spurious Emission

7.7.1 Conducted Emission Method

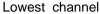
Test Requirement:	FCC Part15 C Section 15.247 (d)					
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance V03					
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the 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					

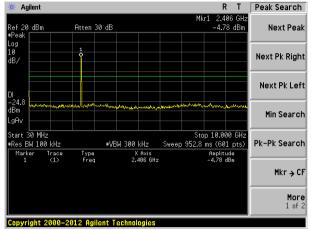


Test plot as follows:

Test mode:

802.11b



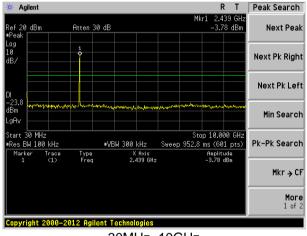


30MHz~10GHz

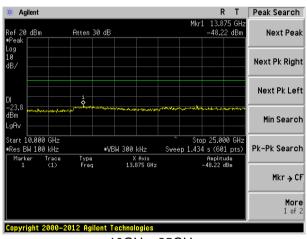
10GHz~25GHz

Middle channel

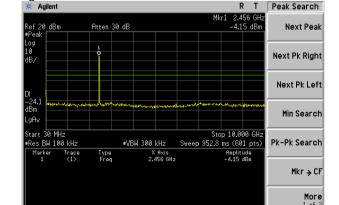
Highest channel



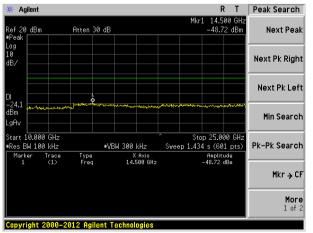
30MHz~10GHz



10GHz~25GHz



30MHz~10GHz



10GHz~25GHz

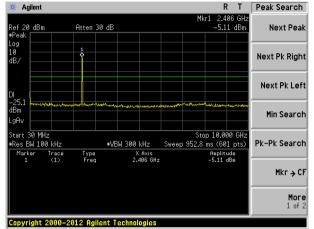
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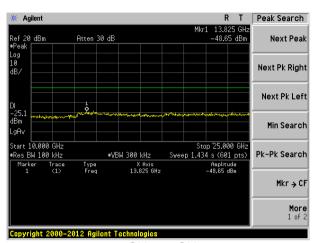
Test mode:

802.11g

Lowest channel

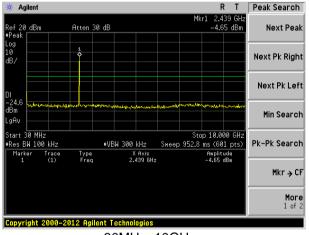


30MHz~10GHz

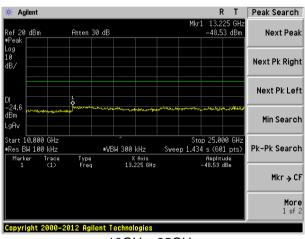


10GHz~25GHz

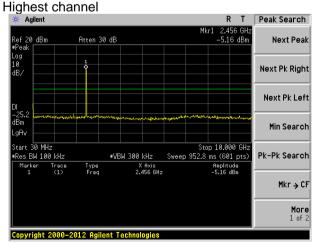
Middle channel



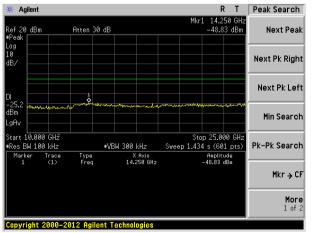
30MHz~10GHz



10GHz~25GHz



30MHz~10GHz



10GHz~25GHz



R T Peak Search

Next Peak

More 1 of 2

Next Pk Right

Test mode:

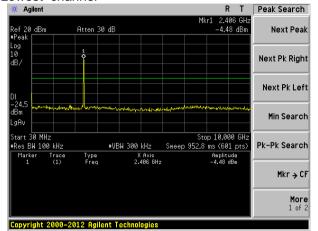
802.11n(HT20)

Atten 30 dB

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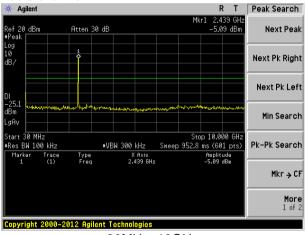
Lowest channel



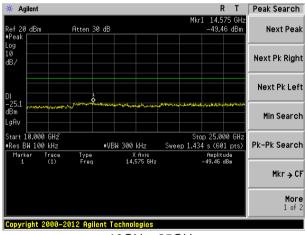
30MHz~10GHz

10GHz~25GHz

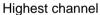
Middle channel

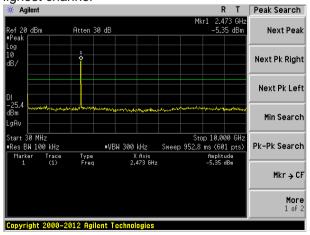


30MHz~10GHz

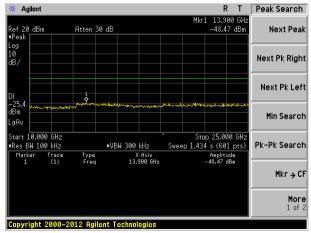


10GHz~25GHz





30MHz~10GHz



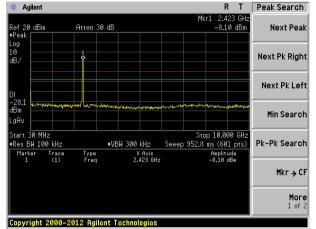
10GHz~25GHz



Test mode:

802.11n(HT40)

Lowest channel

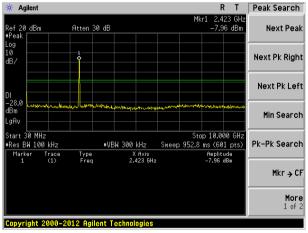


30MHz~10GHz

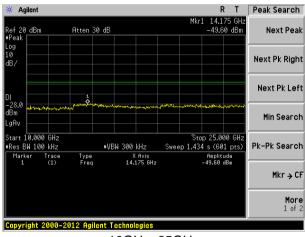
* Agilent R T Peak Search 14.000 GHz -49.50 dBm Atten 30 dB Next Peak ef 20 dBm Next Pk Right Next Pk Left Min Search Start 10.000 GHz •Res BW 100 kHz Stop 25.000 GH: Sweep 1.434 s (601 pts) Pk-Pk Search #VBW 300 kHz X Axis 14.000 GHz Amplitude -49.50 dBm Mkr → CF Copyright 2000-2012 Agilent Technologies

10GHz~25GHz

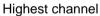
Middle channel

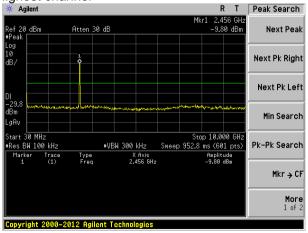


30MHz~10GHz

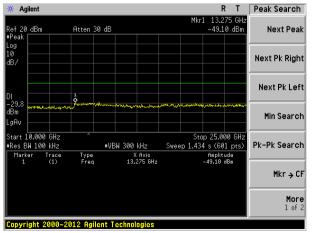


10GHz~25GHz





30MHz~10GHz



10GHz~25GHz



7.7.2 Radiated Emission Method

	FCC Part15 C Se	ection 15.209								
Test Method:	ANSI C63.10:20	13								
Test Frequency Range:	30MHz to 25GHz									
Test site:	Measurement Di	Measurement Distance: 3m								
Receiver setup:	Frequency	Detector	RBW	VBW	Value					
	30MHz-1GHz	Above 1GHz Peak 1MHz 3MHz RMS 1MHz 3MHz					30MHz-1GHz Quasi-peak 120KHz 300K		Quasi-peak	
	Above 4CUE									
	Above 1GHz	Above 1GHz RMS 1MHz 3MHz Frequency Limit (dBuV/m @3m)								
Limit:	Frequer									
	30MHz-88	30MHz-88MHz 40.00								
	88MHz-216	88MHz-216MHz 43.50								
	216MHz-96	216MHz-960MHz 46.00								
	960MHz-1	960MHz-1GHz 54.00								
	Al 40	54.00								
	Above 10	Above 1GHz 54.00 Ave 74.00 Pe								
				W \ -						
	Above 1GHz	EUT+ Tum Table+		mplifier						



Test Procedure:	 The EUT was placed on the top of a rotating table (0.8 meters below 1G and 1.5 meters 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.
	The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
	6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasipeak or average method as specified and then reported in a data sheet.
	7. The radiation measurements are performed in X, Y, Z axis positioning. And found the Y axis positioning which it is worse case, only the test worst case mode is recorded in the report.
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

Remark:

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



Measurement Data

■ Below 1GHz

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
35.88	47.66	14.54	0.62	30.07	32.75	40.00	-7.25	Vertical
46.83	48.11	15.44	0.74	30.01	34.28	40.00	-5.72	Vertical
178.76	51.75	11.62	1.73	29.28	35.82	43.50	-7.68	Vertical
306.75	47.30	15.15	2.39	29.96	34.88	46.00	-11.12	Vertical
543.27	47.78	19.46	3.50	29.30	41.44	46.00	-4.56	Vertical
711.67	43.91	20.95	4.13	29.20	39.79	46.00	-6.21	Vertical
33.10	47.22	14.31	0.59	30.08	32.04	40.00	-7.96	Horizontal
52.58	45.62	15.14	0.79	29.98	31.57	40.00	-8.43	Horizontal
118.60	45.36	12.69	1.35	29.58	29.82	43.50	-13.68	Horizontal
207.85	51.42	12.80	1.89	29.28	36.83	43.50	-6.67	Horizontal
323.32	48.56	15.46	2.49	29.87	36.64	46.00	-9.36	Horizontal
593.05	45.12	20.35	3.70	29.30	39.87	46.00	-6.13	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	40.88	31.79	8.62	32.10	49.19	74.00	-24.81	Vertical
7236.00	34.59	36.19	11.68	31.97	50.49	74.00	-23.51	Vertical
9648.00	32.98	38.07	14.16	31.56	53.65	74.00	-20.35	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	39.46	31.79	8.62	32.10	47.77	74.00	-26.23	Horizontal
7236.00	34.29	36.19	11.68	31.97	50.19	74.00	-23.81	Horizontal
9648.00	32.54	38.07	14.16	31.56	53.21	74.00	-20.79	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	29.92	31.79	8.62	32.10	38.23	54.00	-15.77	Vertical
7236.00	23.44	36.19	11.68	31.97	39.34	54.00	-14.66	Vertical
9648.00	23.31	38.07	14.16	31.56	43.98	54.00	-10.02	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	28.96	31.79	8.62	32.10	37.27	54.00	-16.73	Horizontal
7236.00	22.86	36.19	11.68	31.97	38.76	54.00	-15.24	Horizontal
9648.00	22.27	38.07	14.16	31.56	42.94	54.00	-11.06	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		Test	channel:	Midd	le	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	39.83	31.85	8.66	32.12	48.22	74.00	-25.78	Vertical
7311.00	34.60	36.37	11.71	31.91	50.77	74.00	-23.23	Vertical
9748.00	33.95	38.27	14.25	31.56	54.91	74.00	-19.09	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	40.24	31.85	8.66	32.12	48.63	74.00	-25.37	Horizontal
7311.00	33.20	36.37	11.71	31.91	49.37	74.00	-24.63	Horizontal
9748.00	33.82	38.27	14.25	31.56	54.78	74.00	-19.22	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	30.65	31.85	8.66	32.12	39.04	54.00	-14.96	Vertical
7311.00	22.90	36.37	11.71	31.91	39.07	54.00	-14.93	Vertical
9748.00	23.20	38.27	14.25	31.56	44.16	54.00	-9.84	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	30.32	31.85	8.66	32.12	38.71	54.00	-15.29	Horizontal
7311.00	22.28	36.37	11.71	31.91	38.45	54.00	-15.55	Horizontal
9748.00	23.53	38.27	14.25	31.56	44.49	54.00	-9.51	Horizontal
12185.00	*					54.00		Horizontal
14622.00	*					54.00		Horizontal
17059.00	*					54.00		Horizontal

Remark:

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

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



Test mode:		802.11b		Test	channel:	Highe	est	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	45.71	31.90	8.70	32.15	54.16	74.00	-19.84	Vertical
7386.00	35.49	36.49	11.76	31.83	51.91	74.00	-22.09	Vertical
9848.00	37.40	38.62	14.31	31.77	58.56	74.00	-15.44	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	44.89	31.90	8.70	32.15	53.34	74.00	-20.66	Horizontal
7386.00	34.33	36.49	11.76	31.83	50.75	74.00	-23.25	Horizontal
9848.00	33.55	38.62	14.31	31.77	54.71	74.00	-19.29	Horizontal
12310.00	*					74.00		Horizontal
14772.00	*					74.00		Horizontal
17234.00	*					74.00		Horizontal
Average val			1	T	•			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	36.56	31.90	8.70	32.15	45.01	54.00	-8.99	Vertical
7386.00	25.39	36.49	11.76	31.83	41.81	54.00	-12.19	Vertical
9848.00	25.89	38.62	14.31	31.77	47.05	54.00	-6.95	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	35.21	31.90	8.70	32.15	43.66	54.00	-10.34	Horizontal
7386.00	23.70	36.49	11.76	31.83	40.12	54.00	-13.88	Horizontal
9848.00	22.79	38.62	14.31	31.77	43.95	54.00	-10.05	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					54.00		Horizontal

Remark:

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^{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	39.82	31.79	8.62	32.10	48.13	74.00	-25.87	Vertical
7236.00	33.92	36.19	11.68	31.97	49.82	74.00	-24.18	Vertical
9648.00	32.50	38.07	14.16	31.56	53.17	74.00	-20.83	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	38.56	31.79	8.62	32.10	46.87	74.00	-27.13	Horizontal
7236.00	33.71	36.19	11.68	31.97	49.61	74.00	-24.39	Horizontal
9648.00	32.10	38.07	14.16	31.56	52.77	74.00	-21.23	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	28.94	31.79	8.62	32.10	37.25	54.00	-16.75	Vertical
7236.00	22.80	36.19	11.68	31.97	38.70	54.00	-15.30	Vertical
9648.00	22.86	38.07	14.16	31.56	43.53	54.00	-10.47	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertica
4824.00	28.13	31.79	8.62	32.10	36.44	54.00	-17.56	Horizontal
7236.00	22.30	36.19	11.68	31.97	38.20	54.00	-15.80	Horizontal
9648.00	21.85	38.07	14.16	31.56	42.52	54.00	-11.48	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*	_				54.00		Horizontal
16884.00	*					54.00		Horizontal

Remark:

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^{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	38.96	31.85	8.66	32.12	47.35	74.00	-26.65	Vertical
7311.00	34.04	36.37	11.71	31.91	50.21	74.00	-23.79	Vertical
9748.00	33.56	38.27	14.25	31.56	54.52	74.00	-19.48	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	39.50	31.85	8.66	32.12	47.89	74.00	-26.11	Horizontal
7311.00	32.71	36.37	11.71	31.91	48.88	74.00	-25.12	Horizontal
9748.00	33.46	38.27	14.25	31.56	54.42	74.00	-19.58	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	29.84	31.85	8.66	32.12	38.23	54.00	-15.77	Vertical
7311.00	22.37	36.37	11.71	31.91	38.54	54.00	-15.46	Vertical
9748.00	22.82	38.27	14.25	31.56	43.78	54.00	-10.22	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	29.63	31.85	8.66	32.12	38.02	54.00	-15.98	Horizontal
7311.00	21.81	36.37	11.71	31.91	37.98	54.00	-16.02	Horizontal
9748.00	23.18	38.27	14.25	31.56	44.14	54.00	-9.86	Horizontal
12185.00	*					54.00		Horizontal
14622.00	*	_				54.00		Horizontal
17059.00	*					54.00		Horizontal

Remark:

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^{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	44.21	31.90	8.70	32.15	52.66	74.00	-21.34	Vertical
7386.00	34.54	36.49	11.76	31.83	50.96	74.00	-23.04	Vertical
9848.00	36.72	38.62	14.31	31.77	57.88	74.00	-16.12	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	43.62	31.90	8.70	32.15	52.07	74.00	-21.93	Horizontal
7386.00	33.49	36.49	11.76	31.83	49.91	74.00	-24.09	Horizontal
9848.00	32.92	38.62	14.31	31.77	54.08	74.00	-19.92	Horizontal
12310.00	*					74.00		Horizontal
14772.00	*					74.00		Horizontal
17234.00	*					74.00		Horizontal
Average val								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	35.17	31.90	8.70	32.15	43.62	54.00	-10.38	Vertical
7386.00	24.47	36.49	11.76	31.83	40.89	54.00	-13.11	Vertical
9848.00	25.24	38.62	14.31	31.77	46.40	54.00	-7.60	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	34.02	31.90	8.70	32.15	42.47	54.00	-11.53	Horizontal
7386.00	22.89	36.49	11.76	31.83	39.31	54.00	-14.69	Horizontal
9848.00	22.19	38.62	14.31	31.77	43.35	54.00	-10.65	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*		-			54.00		Horizontal

Remark:

Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102 Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960

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

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



Test mode:		802.11n(H	IT20)	Test	channel:	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	40.18	31.79	8.62	32.10	48.49	74.00	-25.51	Vertical
7236.00	34.15	36.19	11.68	31.97	50.05	74.00	-23.95	Vertical
9648.00	32.66	38.07	14.16	31.56	53.33	74.00	-20.67	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	38.87	31.79	8.62	32.10	47.18	74.00	-26.82	Horizontal
7236.00	33.90	36.19	11.68	31.97	49.80	74.00	-24.20	Horizontal
9648.00	32.24	38.07	14.16	31.56	52.91	74.00	-21.09	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	29.27	31.79	8.62	32.10	37.58	54.00	-16.42	Vertical
7236.00	23.02	36.19	11.68	31.97	38.92	54.00	-15.08	Vertical
9648.00	23.01	38.07	14.16	31.56	43.68	54.00	-10.32	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	28.41	31.79	8.62	32.10	36.72	54.00	-17.28	Horizontal
7236.00	22.49	36.19	11.68	31.97	38.39	54.00	-15.61	Horizontal
9648.00	21.99	38.07	14.16	31.56	42.66	54.00	-11.34	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal
16884.00	*					54.00		Horizontal

Remark:

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

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

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



Test mode:		802.11n(H	IT20)	Test	channel:	Midd	le	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	39.26	31.85	8.66	32.12	47.65	74.00	-26.35	Vertical
7311.00	34.23	36.37	11.71	31.91	50.40	74.00	-23.60	Vertical
9748.00	33.69	38.27	14.25	31.56	54.65	74.00	-19.35	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	39.75	31.85	8.66	32.12	48.14	74.00	-25.86	Horizontal
7311.00	32.88	36.37	11.71	31.91	49.05	74.00	-24.95	Horizontal
9748.00	33.58	38.27	14.25	31.56	54.54	74.00	-19.46	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	30.12	31.85	8.66	32.12	38.51	54.00	-15.49	Vertical
7311.00	22.55	36.37	11.71	31.91	38.72	54.00	-15.28	Vertical
9748.00	22.94	38.27	14.25	31.56	43.90	54.00	-10.10	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	29.87	31.85	8.66	32.12	38.26	54.00	-15.74	Horizontal
7311.00	21.97	36.37	11.71	31.91	38.14	54.00	-15.86	Horizontal
9748.00	23.30	38.27	14.25	31.56	44.26	54.00	-9.74	Horizontal
12185.00	*					54.00		Horizontal
14622.00	*					54.00		Horizontal
17059.00	*					54.00		Horizontal

Remark:

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

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



Test mode:		802.11n(H	IT20)	Test	channel:	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	44.72	31.90	8.70	32.15	53.17	74.00	-20.83	Vertical
7386.00	34.86	36.49	11.76	31.83	51.28	74.00	-22.72	Vertical
9848.00	36.95	38.62	14.31	31.77	58.11	74.00	-15.89	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	44.05	31.90	8.70	32.15	52.50	74.00	-21.50	Horizontal
7386.00	33.78	36.49	11.76	31.83	50.20	74.00	-23.80	Horizontal
9848.00	33.13	38.62	14.31	31.77	54.29	74.00	-19.71	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	35.64	31.90	8.70	32.15	44.09	54.00	-9.91	Vertical
7386.00	24.78	36.49	11.76	31.83	41.20	54.00	-12.80	Vertical
9848.00	25.46	38.62	14.31	31.77	46.62	54.00	-7.38	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	34.42	31.90	8.70	32.15	42.87	54.00	-11.13	Horizontal
7386.00	23.17	36.49	11.76	31.83	39.59	54.00	-14.41	Horizontal
9848.00	22.39	38.62	14.31	31.77	43.55	54.00	-10.45	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*	_				54.00		Horizontal
17234.00	*					54.00		Horizontal

Remark:

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

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



Test mode:		802.11n(HT40)			Test	channel:		Lowe	est	
Peak value:		•								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)		Level (dBuV/m)	Limit Line (dBuV/m)		Over Limit (dB)	polarization
4844.00	38.82	31.81	8.63	32.11		47.15	74.00		-26.85	Vertical
7266.00	33.28	36.28	11.69	31.94		49.31	74.00		-24.69	Vertical
9688.00	32.05	38.13	14.21	31.52		52.87	74.00		-21.13	Vertical
12060.00	*						74.00			Vertical
14472.00	*						74.	00		Vertical
16884.00	*						74.	00		Vertical
4844.00	37.72	31.81	8.63	32.11		46.05	74.	00	-27.95	Horizontal
7266.00	33.15	36.28	11.69	31.94		49.18	74.	00	-24.82	Horizontal
9688.00	31.68	38.13	14.21	31.52		52.50	74.	00	-21.50	Horizontal
12060.00	*						74.	00		Horizontal
14472.00	*						74.	00		Horizontal
16884.00	*						74.	00		Horizontal
Average val		<u> </u>		<u> </u>			, 1.			Tonzontai

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
4844.00	28.02	31.81	8.63	32.11	36.35	54.00	-17.65	Vertical
7266.00	22.18	36.28	11.69	31.94	38.21	54.00	-15.79	Vertical
9688.00	22.42	38.13	14.21	31.52	43.24	54.00	-10.76	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4844.00	27.33	31.81	8.63	32.11	35.66	54.00	-18.34	Horizontal
7266.00	21.76	36.28	11.69	31.94	37.79	54.00	-16.21	Horizontal
9688.00	21.45	38.13	14.21	31.52	42.27	54.00	-11.73	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal
16884.00	*					54.00		Horizontal

Remark:

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



Test mode:		802.11n(H		Test channel:			Middle			
Peak value:										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)		Level (dBuV/m)	Limit Line (dBuV/m)		Over Limit (dB)	polarization
4874.00	38.13	31.85	8.66	32.12		46.52	74.	00	-27.48	Vertical
7311.00	33.52	36.37	11.71	31.91		49.69	74.	00	-24.31	Vertical
9748.00	33.18	38.27	14.25	31.56		54.14	74.00		-19.86	Vertical
12185.00	*						74.00			Vertical
14622.00	*						74.00			Vertical
17059.00	*						74.00			Vertical
4874.00	38.80	31.85	8.66	32	.12	47.19	74.	00	-26.81	Horizontal
7311.00	32.25	36.37	11.71	31	.91	48.42	74.	00	-25.58	Horizontal
9748.00	33.11	38.27	14.25	31.56		54.07	74.00		-19.93	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)	Fa	amp ctor B)	Level (dBuV/m)	Limit (dBu\		Over Limit (dB)	polarization
4874.00	29.08	31.85	8.66	32	.12	37.47	54.0	00	-16.53	Vertical
7311.00	21.86	36.37	11.71	31	.91	38.03	54.	00	-15.97	Vertical
9748.00	22.46	38.27	14.25	31	.56	43.42	54.	00	-10.58	Vertical
12185.00	*						54.0	00		Vertical
14622.00	*						54.	00		Vertical
17059.00	*						54.	00		Vertical
4874.00	28.97	31.85	8.66	32	.12	37.36	54.	00	-16.64	Horizontal
7311.00	21.36	36.37	11.71	31	.91	37.53	54.	00	-16.47	Horizontal
9748.00	22.85	38.27	14.25	31	.56	43.81	54.	00	-10.19	Horizontal
12185.00	*						54.	00		Horizontal
14622.00	*						54.0	00		Horizontal
17059.00	*						54.	00		Horizontal

Remark:

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



Test mode:		802.11n(H	802.11n(HT40)		channel:	Highest			
Peak value:									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization	
4904.00	42.77	31.88	8.68	32.13	51.20	74.00	-22.80	Vertical	
7356.00	33.63	36.45	11.75	31.86	49.97	74.00	-24.03	Vertical	
9808.00	36.08	38.43	14.29	31.68	57.12	74.00	-16.88	Vertical	
12310.00	*					74.00		Vertical	
14772.00	*					74.00		Vertical	
17234.00	*					74.00		Vertical	
4904.00	42.41	31.88	8.68	32.13	50.84	74.00	-23.16	Horizontal	
7356.00	32.70	36.45	11.75	31.86	49.04	74.00	-24.96	Horizontal	
9808.00	32.32	38.43	14.29	31.68	53.36	74.00	-20.64	Horizontal	
12310.00	*					74.00		Horizontal	
14772.00	*					74.00		Horizontal	
17234.00	*					74.00		Horizontal	
Average val	ue:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization	
4904.00	33.85	31.88	8.68	32.13	42.28	54.00	-11.72	Vertical	
7356.00	23.60	36.45	11.75	31.86	39.94	54.00	-14.06	Vertical	
9808.00	24.62	38.43	14.29	31.68	45.66	54.00	-8.34	Vertical	
12310.00	*					54.00		Vertical	
14772.00	*					54.00		Vertical	
17234.00	*					54.00		Vertical	
4904.00	32.88	31.88	8.68	32.13	41.31	54.00	-12.69	Horizontal	
7356.00	22.13	36.45	11.75	31.86	38.47	54.00	-15.53	Horizontal	
9808.00	21.61	38.43	14.29	31.68	42.65	54.00	-11.35	Horizontal	
12310.00	*					54.00		Horizontal	
14772.00	*					54.00		Horizontal	
17234.00	*					54.00		Horizontal	

Remark:

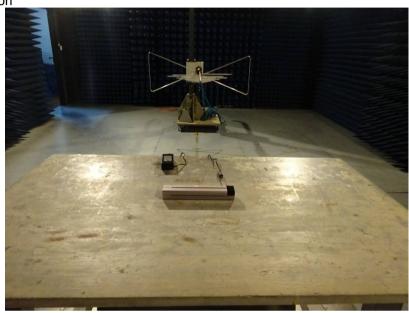
¹ Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

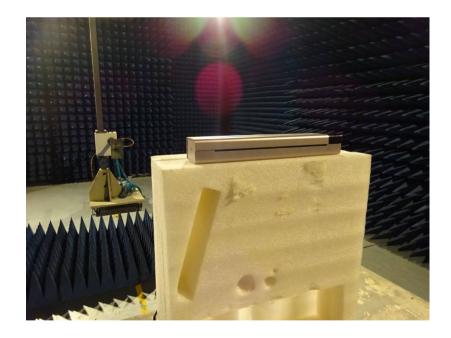
^{2 &}quot;*", means this data is the too weak instrument of signal is unable to test.



8 Test Setup Photo

Radiated Emission

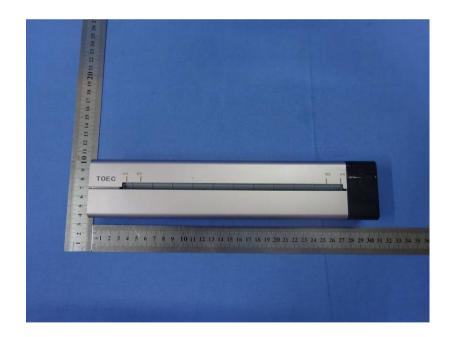






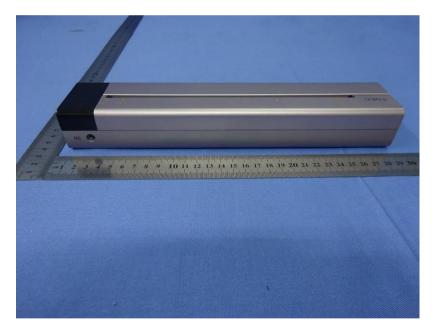
9 EUT Constructional Details



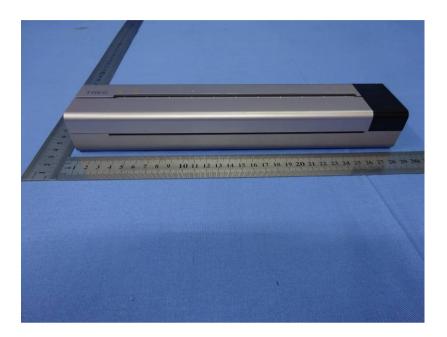


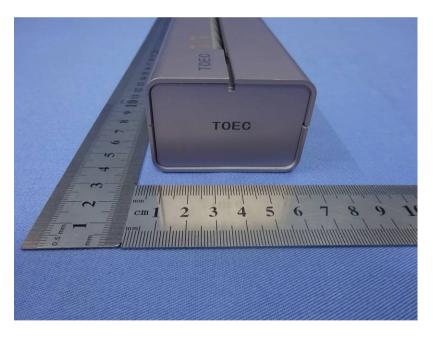




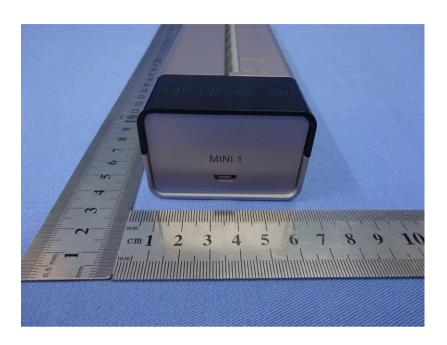










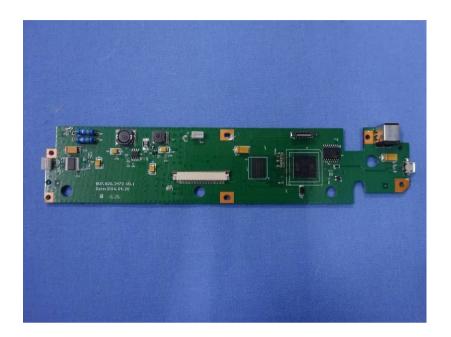


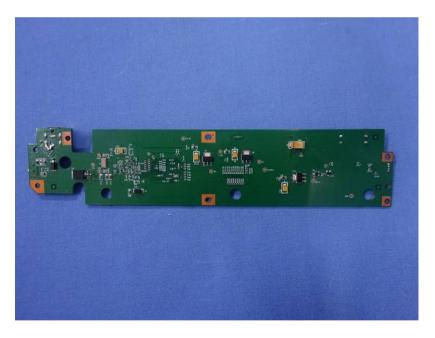


Project No.: GTS201608000138

Page 56 of 61

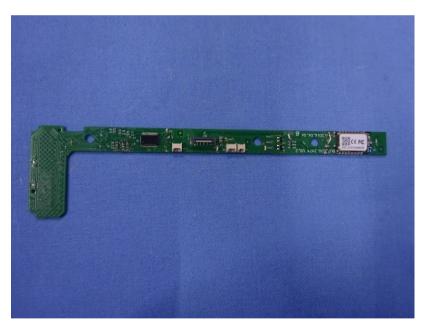




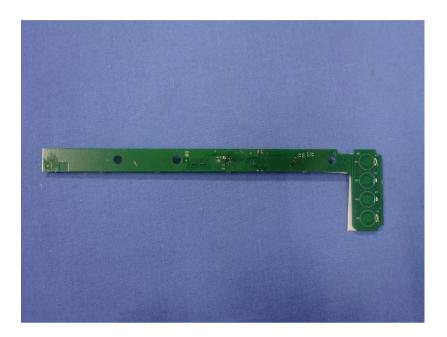


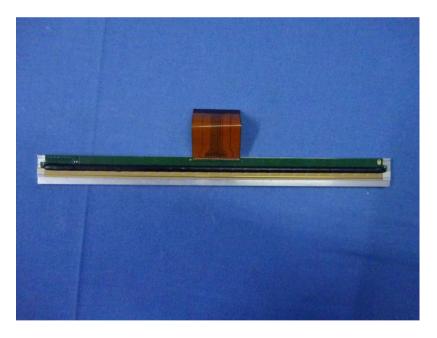






















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