

Global United Technology Services Co., Ltd.

Report No.: GTS201605000144E02

FCC Report (WIFI)

Applicant: SHENZHEN XINYI DIGITAL TECHNOLOGY CO.,LTD

Address of Applicant: 4th Floor,2nd Building,BaiShiXia Xintang Industry, Fuyong

Street, Bao'an District, Shenzhen, China

Equipment Under Test (EUT)

Product Name: Smart Watch

Model No.: X01, X02, X03, X04, X05, X06, X07, X08, X09, X01(S),

X02(S), X03(S), X04(S), X05(S), X06(S), X07(S), X08(S),

X09(S), X(Series)

FCC ID: 2AIFM-X01

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.247:2014

Date of sample receipt: May 17, 2016

Date of Test: May 18-27, 2016

Date of report issued: May 30, 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	May 30, 2016	Original

Prepared By:	Zolward. Pan	Date:	May 30, 2016	
	Project Engineer			
Check By:	Andy wa	Date:	May 30, 2016	
	Poviowar			



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4 Test Summary

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

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

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

Measurement Uncertainty

Frequency Range	Measurement Uncertainty	Notes
9kHz ~ 30MHz	± 4.34dB	(1)
nission 30MHz ~ 1000MHz ± 4.24dB		(1)
1GHz ~ 26.5GHz	± 4.68dB	(1)
on 1GHz ~ 26.5GHz ± 4.68dB lucted 0.15MHz ~ 30MHz ± 3.45dB		(1)
	9kHz ~ 30MHz 30MHz ~ 1000MHz 1GHz ~ 26.5GHz	9kHz ~ 30MHz



5 General Information

5.1 Client Information

Applicant:	SHENZHEN XINYI DIGITAL TECHNOLOGY CO.,LTD
Address of Applicant:	4th Floor,2nd Building,BaiShiXia Xintang Industry, Fuyong Street,Bao'an District, Shenzhen, China
Manufacturer:	SHENZHEN XINYI DIGITAL TECHNOLOGY CO.,LTD
Address of Manufacturer:	4th Floor,2nd Building,BaiShiXia Xintang Industry, Fuyong Street,Bao'an District, Shenzhen, China

5.2 General Description of EUT

Product Name:	Smart Watch
Model No.:	X01, X02, X03, X04, X05, X06, X07, X08, X09, X01(S), X02(S), X03(S), X04(S), X05(S), X06(S), X07(S), X08(S), X09(S), X(Series)
Operation Frequency:	802.11b/802.11g/802.11n(HT20): 2412MHz~2462MHz
	802.11n(HT40): 2422MHz~2452MHz
Channel numbers:	802.11b/802.11g /802.11n(HT20): 11
	802.11(HT40): 7
Channel separation:	5MHz
Modulation technology:	802.11b: Direct Sequence Spread Spectrum (DSSS)
	802.11g/802.11n(H20)/802.11n(H40):
	Orthogonal Frequency Division Multiplexing (OFDM)
Antenna Type:	PIFA antenna
Antenna gain:	1.0dBi
Power supply:	DC 3.7V 600mAh Li-ion Battery



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

Note:

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

Test channel	Frequency (MHz)		
rest channel	802.11b/802.11g/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.

		<u> </u>		
Mode	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)
Data rate	1Mbps	6Mbps	6.5Mbps	13Mbps

5.4 Description of Support Units

Manufacturer	Description	Model	Serial Number	FCC Approval
Emerson Network Power	USB Charger	A1299	N/A	FCC VoC



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 28, 2013.

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

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

5.6 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

Address: 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	Mar. 26 2016	Mar. 25 2017		
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A		
3	Spectrum Analyzer	Agilent	E4440A	GTS533	Dec. 03 2015	Dec. 02 2016		
4	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	June 30 2015	June 29 2016		
5	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	June 30 2015	June 29 2016		
6	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	9120D-829	GTS208	June 26 2015	June 25 2016		
7	Horn Antenna	ETS-LINDGREN	3160	GTS217	Mar. 26 2016	Mar. 25 2017		
8	EMI Test Software	AUDIX	E3	N/A	N/A	N/A		
9	Coaxial Cable	GTS	N/A	GTS213	Mar. 27 2016	Mar. 26 2017		
10	Coaxial Cable	GTS	N/A	GTS211	Mar. 27 2016	Mar. 26 2017		
11	Coaxial cable	GTS	N/A	GTS210	Mar. 27 2016	Mar. 26 2017		
12	Coaxial Cable	GTS	N/A	GTS212	Mar. 27 2016	Mar. 26 2017		
13	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	June 30 2015	June 29 2016		
14	Amplifier(2GHz-20GHz)	HP	8349B	GTS206	June 30 2015	June 29 2016		
15	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June 26 2015	June 25 2016		
16	Band filter	Amindeon	82346	GTS219	Mar. 27 2016	Mar. 26 2017		
17	Power Meter	Anritsu	ML2495A	GTS540	June 30 2015	June 29 2016		
18	Power Sensor	Anritsu	MA2411B	GTS541	June 30 2015	June 29 2016		

Cond	ducted Emission:					
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	Shielding Room	ZhongYu Electron	7.0(L)x3.0(W)x3.0(H)	GTS264	Sep. 07 2015	Sep. 06 2016
2	EMI Test Receiver	Rohde & Schwarz	ESCS30	GTS223	June 30 2015	June 29 2016
3	10dB Pulse Limita	Rohde & Schwarz	N/A	GTS224	June 30 2015	June 29 2016
4	Coaxial Switch	ANRITSU CORP	MP59B	GTS225	June 30 2015	June 29 2016
5	LISN	SCHWARZBECK MESS-ELEKTRONIK	NSLK 8127	GTS226	June 30 2015	June 29 2016
6	Coaxial Cable	GTS	N/A	GTS227	June 30 2015	June 29 2016
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A

Gen	General used equipment:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)	
1	Barometer	ChangChun	DYM3	GTS257	July 07 2015	July 06 2016	



7 Test results and Measurement Data

7.1 Antenna requirement

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

15.203 requirement:

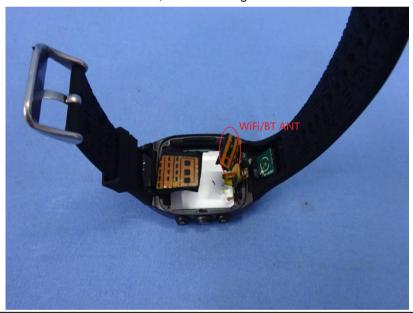
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit 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 PIFA antenna, the best case gain of the antenna is 1dBi





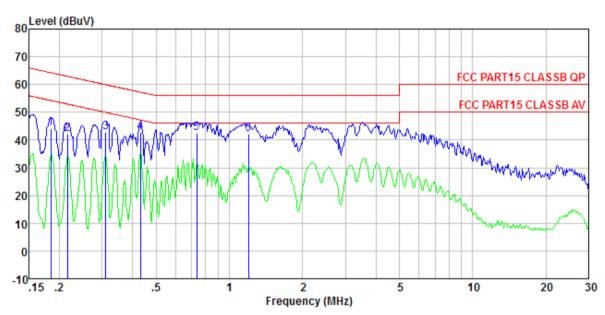
7.2 Conducted Emissions

Test Requirement:	FCC Part15 C Section 15.207	,		
Test Method:	ANSI C63.10:2013			
Test Frequency Range:	150KHz to 30MHz			
Class / Severity:	Class B			
Receiver setup:	RBW=9KHz, VBW=30KHz, Sv	weep time=auto		
Limit:	Frequency range (MHz)	Limit (c	dBuV)	
		Quasi-peak	Average	
	0.15-0.5	66 to 56*	56 to 46*	
	0.5-5	56	46	
	5-30	60	50	
	* Decreases with the logarithn	n of the frequency.		
Test setup:	Reference Plane		_	
	AUX Equipment E.U.T Test table/Insulation plane Remark E.U.T. Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m	Filter — AC pow		
Test procedure:	 The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10:2013 on conducted measurement. 			
Test Instruments:	Refer to section 6.0 for details			
Test mode:	Refer to section 5.3 for details	3		
Test results:	Pass			



Measurement data

Line:



Site : Shielded room

Condition : FCC PART15 CLASSB QP LISN-2013 LINE

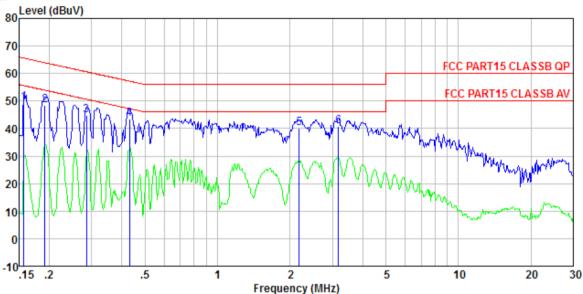
Job No. : 0144
Test mode : WiFi mode
Test Engineer: Skv

CSI	Distinct.	_		TTON	0.11		^		
	_	Read			Cable		Over		
	Freq	Level	Level	Factor	Loss	Line	Limit	Remark	
	MHz	<u>dBuV</u>	dBuV	dB	<u>dB</u>	<u>dBuV</u>	dB		
				-					
1	0.184	43.76	44.03	0.14	0.13	64 22	-20 2E	ΩP	
Т									
2	0.216	41.99	42. 25	0.13	0.13	62.96	-20.71	QP	
3	0.310	42.68	42.89	0.11	0.10	59.97	-17.08	QP	
4	0.431	42.50	42.73	0.12			-14.51		
5	0.735	42.27	42.54		0.13			-	
6			42.18		0.13			-	
~	4.101		40. 40	V. T.	V. T.	~ · · · ·	20.02	Mark .	

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



Neutral:



Site : Shielded room

Condition : FCC PART15 CLASSB QP LISN-2013 NEUTRAL

Job No. : 0144
Test mode : WiFi mode

Test Engineer: Sky

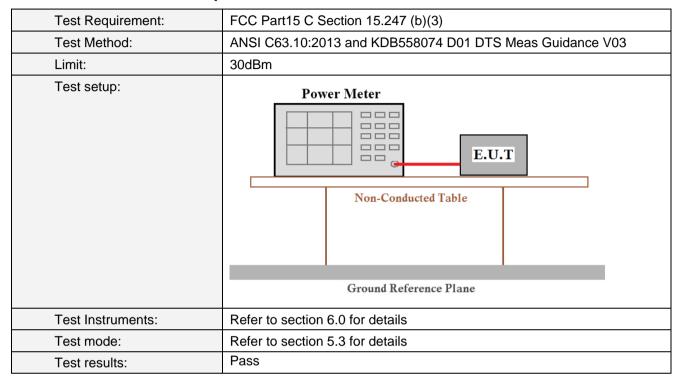
	Freq			LISN Factor				Remark
	MHz	dBuV	dBuV	dB	dB	dBuV	dB	
1 2 3 4 5	0. 192 0. 286 0. 431 2. 178	44. 62 43. 28 39. 91	48. 55 44. 78 43. 45 40. 15	0.07 0.06 0.06 0.09	0.10 0.11 0.15	63. 93 60. 63 57. 24 56. 00	-15.38 -15.85 -13.79 -15.85	QP QP QP QP
6	3.173	40.52	40.79	0.12	0.15	56.00	-15.21	QP

Notes:

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



7.3 Conducted Peak Output Power



Measurement Data

Test CH		Peak Outp	Limit(dBm)	Result		
	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	Limit(abin)	Nesuit
Lowest	15.96	11.44	11.14	8.41		
Middle	14.50	13.61	11.60	10.09	30.00	Pass
Highest	15.09	10.59	10.55	7.55		



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		

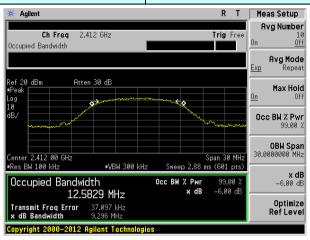
Measurement Data

Test CH		Channel E	Limit(KHz)	Result		
rest Cri	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	Littiit(IXI IZ)	ixesuit
Lowest	9.296	16.092	17.607	35.326		
Middle	9.236	16.129	17.564	35.368	>500	Pass
Highest	9.919	16.595	16.401	35.330		

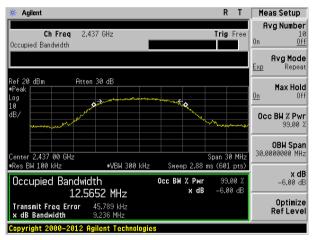
Test plot as follows:



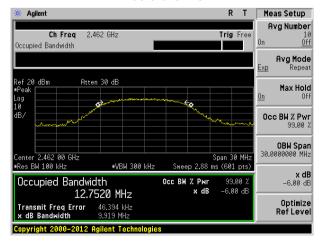
Test mode: 802.11b



Lowest channel



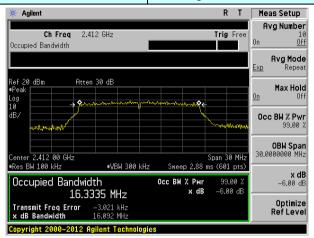
Middle channel



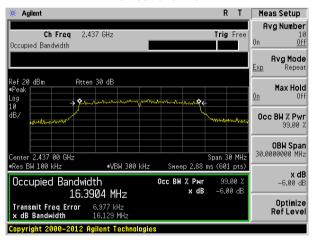
Highest channel



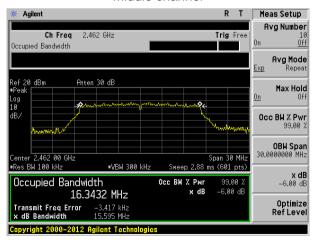
Test mode: 802.11g



Lowest channel



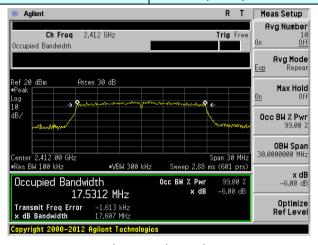
Middle channel



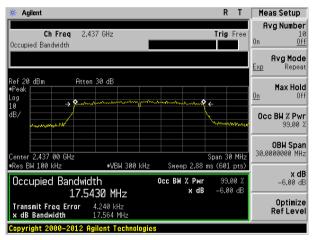
Highest channel



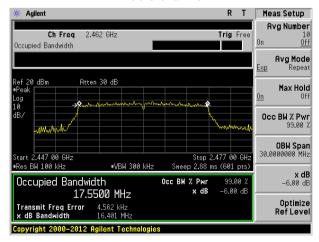
Test mode: 802.11n(HT20)



Lowest channel



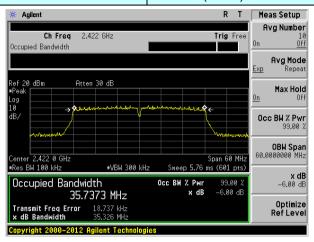
Middle channel



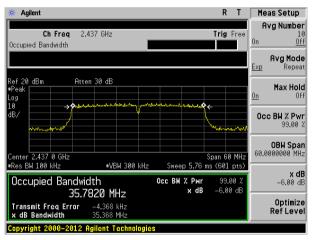
Highest channel



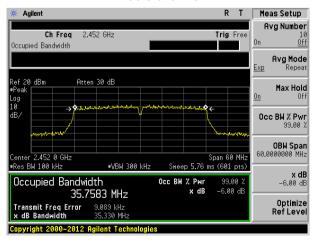
Test mode: 802.11n(HT40)



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		
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane		
Test Instruments:	Refer to section 6.0 for details		
Test mode:	Refer to section 5.3 for details		
Test results:	Pass		

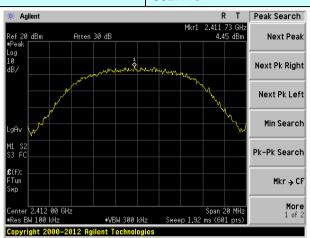
Measurement Data

Test CH		Power Spectra	Limit(dBm/3kHz)	Result		
	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	Limit(dBm/3km2)	Result
Lowest	4.45	-0.41	-1.14	-6.67		
Middle	3.19	0.56	-1.04	-5.36	8.00	Pass
Highest	3.15	-2.42	-2.21	-7.48		

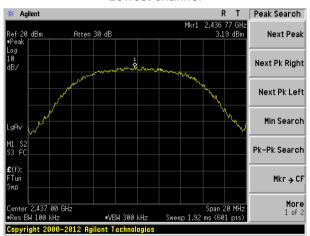


Test plot as follows:

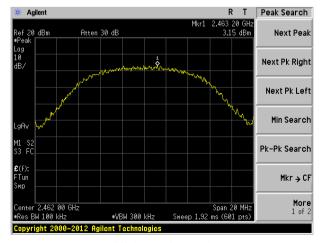
Test mode: 802.11b



Lowest channel



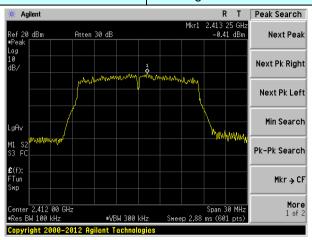
Middle channel



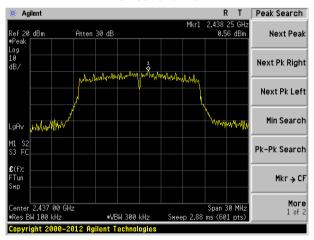
Highest channel



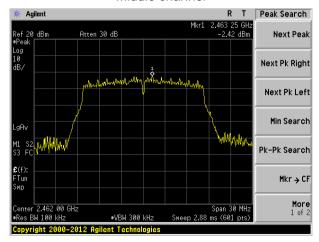
Test mode: 802.11g



Lowest channel



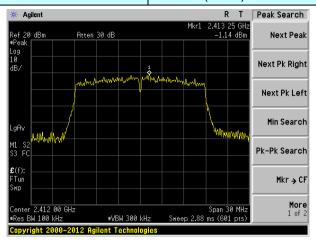
Middle channel



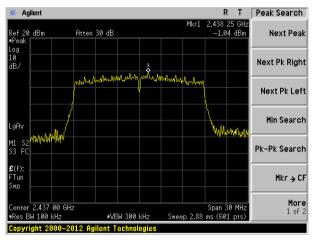
Highest channel



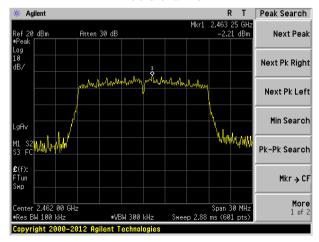
Test mode: 802.11n(HT20)



Lowest channel



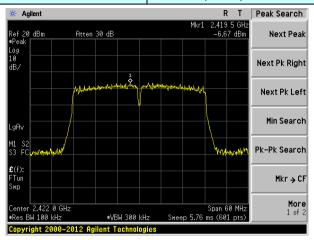
Middle channel



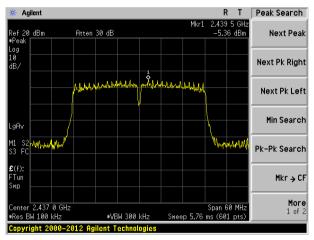
Highest channel



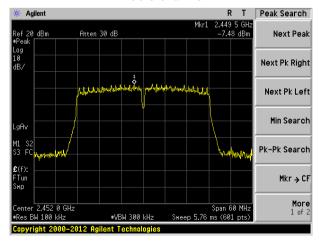
Test mode: 802.11n(HT40)



Lowest channel



Middle channel



Highest channel



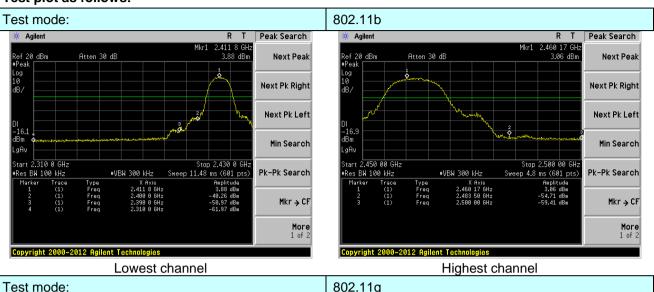
7.6 Band edges

7.6.1 Conducted Emission Method

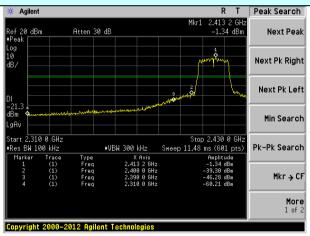
Test Requirement:	FCC Part15 C Section 15.247 (d)		
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance V03		
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional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



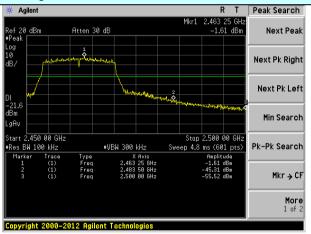
Test plot as follows:



802.11g

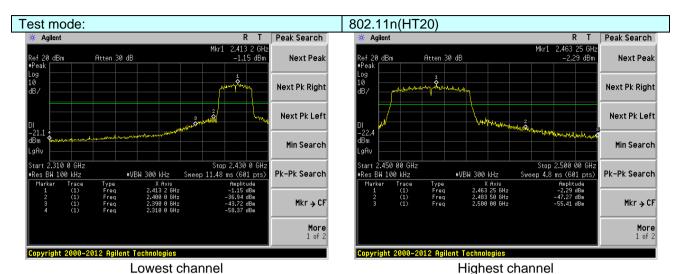


Lowest channel

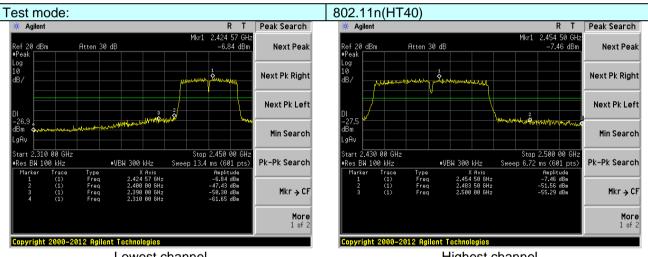


Highest channel









Lowest channel

Highest channel



7.6.2 Radiated Emission Method

Test Method: Test Frequency Range: All of the restrict bands were tested, only the worst band's (2310MHz 12500MHz) data was showed. Test site: Measurement Distance: 3m Frequency Detector RBW VBW Value Above 1GHz Peak 1MHz 3MHz Peak Above 1GHz Peak 1MHz 3MHz Average RMS 1MHz 3MHz Average Above 1GHz Frequency Limit (dBuV/m @ 3m) Value Test setup: Test Procedure: 1. 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 the ground at the set of the significant of the	Test Requirement:	FCC Part15 C Section 15.209 and 15.205							
Test site: Measurement Distance: 3m									
Test site: Measurement Distance: 3m	Test Frequency Range:			tested, only	the worst b	and's (2310MHz to			
Frequency	, , ,			•		,			
Limit: Frequency Above 1GHz Frequency Anterman Towar Above 1GHz Frequency Frequency Frequency Frequency Frequency Frequency Frequency	Test site:	Measurement Distance: 3m							
Limit: Frequency Limit (dBuV/m @3m) Value Above 1GHz 74.00 Peak Test setup: 1. 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. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. 4. For each suspected emission, the EUT was arranged to its worst cas 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, 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	Receiver setup:	Frequency	Detector	RBW	VBW	Value			
Limit: Frequency Limit (dBuV/m @3m) Value Above 1GHz Above 1GHz Test setup: 1. 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. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. 4. For each suspected emission, the EUT was arranged to its worst cas 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. 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. Refer to section 6.0 for details Test mode: Refer to section 6.3 for details		Ab 21.2 4 O U =	Peak	1MHz	3MHz	Peak			
Test Procedure: 1. 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 the determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the filed 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 cas 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, 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.		Above 1GHZ	Average						
Test setup: 1. 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. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. 4. For each suspected emission, the EUT was arranged to its worst cas 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, 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. Refer to section 6.0 for details Test mode: Refer to section 6.3 for details	Limit:								
Test Procedure: 1. 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 the determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. 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 mould 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. Refer to section 6.0 for details Test mode: Refer to section 6.3 for details		Abovo 1	CU-7	54.0	0	Average			
Test Procedure: 1. 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 the determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was tuned 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, 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. Refer to section 6.0 for details. Test mode: Refer to section 5.3 for details		Above	GHZ	74.0	0	Peak			
the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make th measurement. 4. For each suspected emission, the EUT was arranged to its worst cas 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, 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 5.0 for details Refer to section 5.3 for details	rock octup.	EUT Horn Antenna Spectrum Analyzer Lism Im							
Test Instruments: Refer to section 6.0 for details Test mode: Refer to section 5.3 for details	Test Procedure:	 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. 							
Test mode: Refer to section 5.3 for details	Test Instruments:				л				
1.00	Test results:	Pass	J.O TOT GOLding	•					

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Lowest

Measurement data:

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

Toot channol:

902 11h

Test mode:		802.1	10	Tes	st 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	51.86	27.59	5.38	34.01	50.82	74.00	-23.18	Horizontal
2400.00	60.94	27.58	5.39	34.01	59.90	74.00	-14.10	Horizontal
2390.00	53.55	27.59	5.38	34.01	52.51	74.00	-21.49	Vertical
2400.00	62.79	27.58	5.39	34.01	61.75	74.00	-12.25	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	38.56	27.59	5.38	34.01	37.52	54.00	-16.48	Horizontal
2400.00	46.87	27.58	5.39	34.01	45.83	54.00	-8.17	Horizontal
2390.00	40.39	27.59	5.38	34.01	39.35	54.00	-14.65	Vertical
2400.00	48.01	27.58	5.39	34.01	46.97	54.00	-7.03	Vertical
Test mode:	node: 802.11b		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	52.60	27.53	5.47	33.92	51.68	74.00	-22.32	Horizontal

Average value:

48.36

54.90

50.91

27.55

27.53

27.55

2500.00

2483.50

2500.00

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	38.95	27.53	5.47	33.92	38.03	54.00	-15.97	Horizontal
2500.00	35.02	27.55	5.49	29.93	38.13	54.00	-15.87	Horizontal
2483.50	40.92	27.53	5.47	33.92	40.00	54.00	-14.00	Vertical
2500.00	36.91	27.55	5.49	29.93	40.02	54.00	-13.98	Vertical

29.93

33.92

29.93

51.47

53.98

54.02

Remark:

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

5.49

5.47

5.49

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

Project No.: GTS201605000144

-22.53

-20.02

-19.98

74.00

74.00

74.00

Horizontal

Vertical

Vertical



Report No.: GTS201605000144E02

Test mode:		802.1	802.11g		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
2390.00	50.42	27.59	5.38	34.01	49.38	74.00	-24.62	Horizontal
2400.00	59.03	27.58	5.39	34.01	57.99	74.00	-16.01	Horizontal
2390.00	52.02	27.59	5.38	34.01	50.98	74.00	-23.02	Vertical
2400.00	60.49	27.58	5.39	34.01	59.45	74.00	-14.55	Vertical
Average va	lue:							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	I I imit	Polarization
2390.00	37.54	27.59	5.38	34.01	36.50	54.00	-17.50	Horizontal
2400.00	45.70	27.58	5.39	34.01	44.66	54.00	-9.34	Horizontal
2390.00	39.26	27.59	5.38	34.01	38.22	54.00	-15.78	Vertical
2400.00	46.73	27.58	5.39	34.01	45.69	54.00	-8.31	Vertical
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)	I I imit	Polarization
2483.50	50.55	27.53	5.47	33.92	49.63	74.00	-24.37	Horizontal
2500.00	46.77	27.55	5.49	29.93	49.88	74.00	-24.12	Horizontal
2483.50	52.56	27.53	5.47	33.92	51.64	74.00	-22.36	Vertical
2500.00							04.04	\
	49.05	27.55	5.49	29.93	52.16	74.00	-21.84	Vertical
Average va		27.55	5.49	29.93	52.16	74.00	-21.84	verticai
		27.55 Antenna Factor (dB/m)	Cable Loss (dB)	29.93 Preamp Factor (dB)	52.16 Level (dBuV/m)	74.00 Limit Line (dBuV/m)	Over	Polarization
Average va	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	
Average va 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
Average va Frequency (MHz) 2483.50	Read Level (dBuV) 37.72	Antenna Factor (dB/m) 27.53	Cable Loss (dB) 5.47	Preamp Factor (dB) 33.92	Level (dBuV/m) 36.80	Limit Line (dBuV/m) 54.00	Over Limit (dB) -17.20	Polarization Horizontal

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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.



Test mode:

Report No.: GTS201605000144E02

Lowest

root modo.		002.1	(20)	. 0	ot oriarinoi.		-011001	
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	50.53	27.59	5.38	34.01	49.49	74.00	-24.51	Horizontal
2400.00	59.17	27.58	5.39	34.01	58.13	74.00	-15.87	Horizontal
2390.00	52.13	27.59	5.38	34.01	51.09	74.00	-22.91	Vertical
2400.00	60.66	27.58	5.39	34.01	59.62	74.00	-14.38	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	37.61	27.59	5.38	34.01	36.57	54.00	-17.43	Horizontal
2400.00	45.79	27.58	5.39	34.01	44.75	54.00	-9.25	Horizontal
2390.00	39.34	27.59	5.38	34.01	38.30	54.00	-15.70	Vertical
2400.00	46.83	27.58	5.39	34.01	45.79	54.00	-8.21	Vertical
Test mode:		802.1	1n(HT20)	Te	st channel:	H	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	50.71	27.53	5.47	33.92	49.79	74.00	-24.21	Horizontal
2500.00	46.89	27.55	5.49	29.93	50.00	74.00	-24.00	Horizontal
2483.50	52.73	27.53	5.47	33.92	51.81	74.00	-22.19	Vertical
2500.00	49.19	27.55	5.49	29.93	52.30	74.00	-21.70	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	37.81	27.53	5.47	33.92	36.89	54.00	-17.11	Horizontal
2500.00	34.12	27.55	5.49	29.93	37.23	54.00	-16.77	Horizontal
2483.50	39.66	27.53	5.47	33.92	38.74	54.00	-15.26	Vertical
2500.00 Remark:	35.96	27.55	5.49	29.93	39.07	54.00	-14.93	Vertical
	, 5				o			

Test channel:

802.11n(HT20)

1.

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

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Peak value: Frequency (MHz) 2390.00 2400.00 2390.00 2400.00	Read Level (dBuV) 49.72 58.08 51.26 59.36	Antenna Factor (dB/m) 27.59 27.58 27.59	Cable Loss (dB) 5.38	Pream Facto (dB)	or	Level (dBuV/m)	Limit Line	Over	
(MHz) 2390.00 2400.00 2390.00 2400.00	Level (dBuV) 49.72 58.08 51.26	Factor (dB/m) 27.59 27.58	Loss (dB) 5.38	Facto (dB)	or				
2400.00 2390.00 2400.00	58.08 51.26	27.58		34.01		(UDUV/III)	(dBuV/m)	Limit (dB)	Polarization
2390.00 2400.00	51.26		5.39		1	48.68	74.00	-25.32	Horizontal
2400.00		27.59		34.01	1	57.04	74.00	-16.96	Horizontal
	59.36		5.38	34.01	1	50.22	74.00	-23.78	Vertical
_		27.58	5.39	34.01	1	58.32	74.00	-15.68	Vertical
Average valu	ıe:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Pream Facto (dB)	or	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	37.03	27.59	5.38	34.01	1	35.99	54.00	-18.01	Horizontal
2400.00	45.12	27.58	5.39	34.01	1	44.08	54.00	-9.92	Horizontal
2390.00	38.70	27.59	5.38	34.01	1	37.66	54.00	-16.34	Vertical
2400.00	46.10	27.58	5.39	34.01	1	45.06	54.00	-8.94	Vertical
Test mode:		802.1	1n(HT40)		Tes	st channel:		Highest	
Peak value:	-	Ī		1				T	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Pream Facto (dB)	or	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	49.54	27.53	5.47	33.92	2	48.62	74.00	-25.38	Horizontal
2500.00	45.99	27.55	5.49	29.93	3	49.10	74.00	-24.90	Horizontal
2483.50	51.41	27.53	5.47	33.92	2	50.49	74.00	-23.51	Vertical
2500.00	48.13	27.55	5.49	29.93	3	51.24	74.00	-22.76	Vertical
Average valu	ıe:							_	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Pream Facto (dB)	r	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	37.11	27.53	5.47	33.92	2	36.19	54.00	-17.81	Horizontal
2500.00	33.58	27.55	5.49	29.93	3	36.69	54.00	-17.31	Horizontal
2483.50	38.88	27.53	5.47	33.92	2	37.96	54.00	-16.04	Vertical
2500.00 Remark:	35.38	27.55	5.49	29.93	3	38.49	54.00	-15.51	Vertical

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.



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					

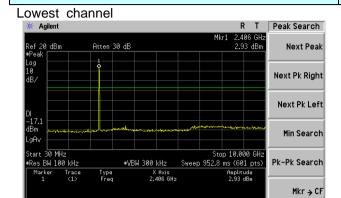


Test plot as follows:

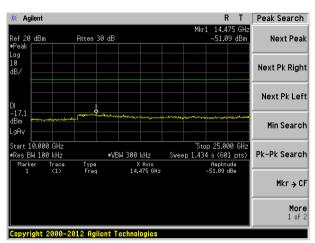
Test mode:

802.11b

More 1 of 2



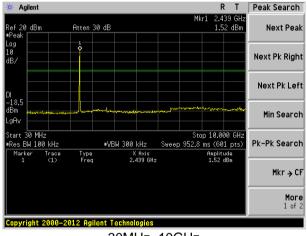




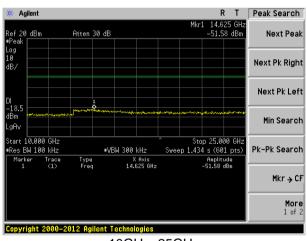
10GHz~25GHz

Middle channel

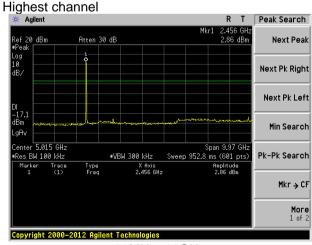
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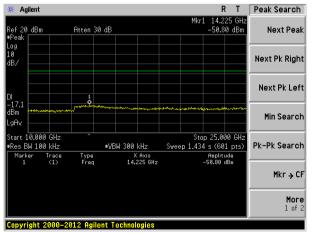
30MHz~10GHz



10GHz~25GHz



30MHz~10GHz



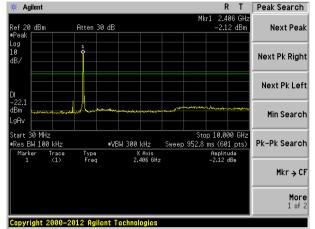
10GHz~25GHz



Test mode:

802.11g

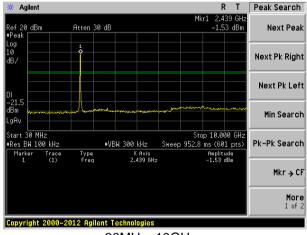
Lowest channel



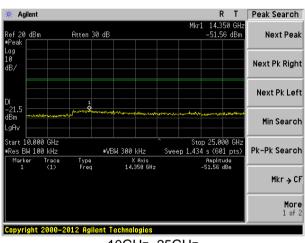
30MHz~10GHz

10GHz~25GHz

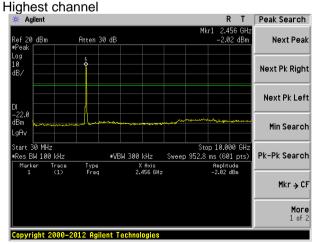
Middle channel



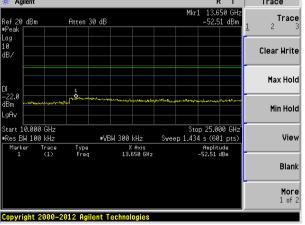
30MHz~10GHz



10GHz~25GHz



30MHz~10GHz



10GHz~25GHz

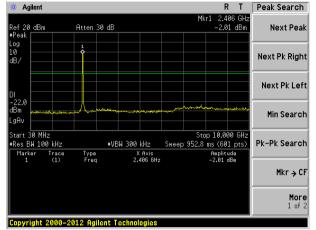


More 1 of 2

Test mode:

802.11n(HT20)

Lowest channel

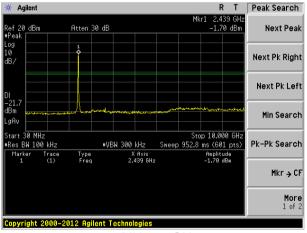


30MHz~10GHz

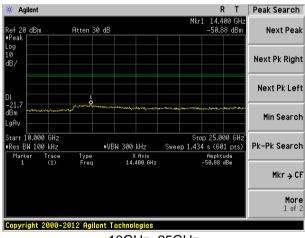
10GHz~25GHz

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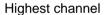
Middle channel

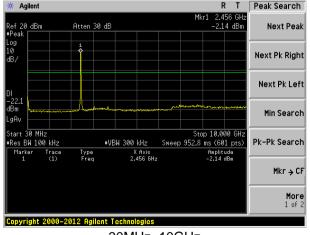


30MHz~10GHz

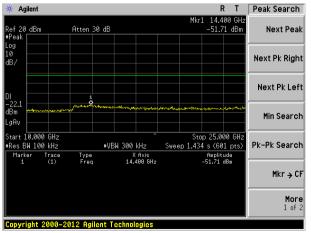


10GHz~25GHz





30MHz~10GHz



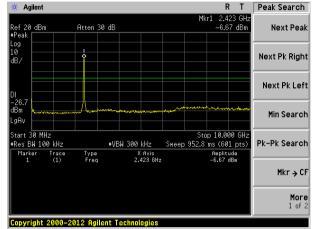
10GHz~25GHz



Test mode:

802.11n(HT40)

Lowest channel

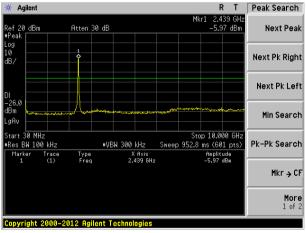


30MHz~10GHz

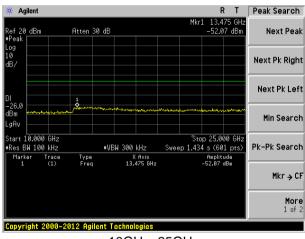
* Agilent R T Peak Search 14.300 GHz -51.40 dBm Atten 30 dB Next Peak ef 20 dBm Next Pk Right Next Pk Left Min Search Start 10.000 GHz •Res BW 100 kHz Stop 25.000 GH: Sweep 1.434 s (601 pts) Pk-Pk Search #VBW 300 kHz X Axis 14.300 GHz Amplitude -51.40 dBm Mkr → CF Copyright 2000-2012 Agilent Technologies

10GHz~25GHz

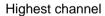
Middle channel

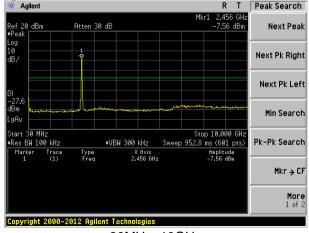


30MHz~10GHz

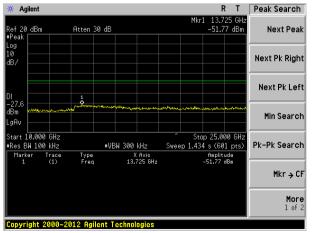


10GHz~25GHz





30MHz~10GHz



10GHz~25GHz



7.7.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209								
Test Method:	ANSI C63.10:2013								
Test Frequency Range:	30MHz to 25GHz	30MHz to 25GHz							
Test site:	Measurement Di	Measurement Distance: 3m							
Receiver setup:	Frequency	Detector	RBW	VBW	Value				
	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak				
	Above 4CH-	Peak	1MHz	3MHz	Peak				
	Above 1GHz	RMS	1MHz	3MHz	Average				
Limit:	Frequer	су	Limit (dBuV	/m @3m)	Value				
	30MHz-88	MHz	40.0	0	Quasi-peak				
	88MHz-216	6MHz	43.5	0	Quasi-peak				
	216MHz-96	0MHz	46.0	0	Quasi-peak				
	960MHz-1	GHz	54.0	0	Quasi-peak				
	Above 10	NU-	54.0	0	Average				
	Above 10	J∏Z	74.0	0	Peak				
Test setup:	Below 1GHz Tum Table Ground Plane Ground Plane	4m		Antenna Tower Search Antenna RF Test Receiver					
	Above 1GHz								



	Antenna Tower Horn Antenna Turn Table 1.5m A A A A A A A Amplifier
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.
	3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
	4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.
	The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
	6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasipeak or average method as specified and then reported in a data sheet.
	7. The radiation measurements are performed in X, Y, Z axis positioning. And found the Y axis positioning which it is worse case, only the test worst case mode is recorded in the report.
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

Remark:

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



Measurement Data

■ Below 1GHz

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
50.59	31.27	15.22	0.78	30.00	17.27	40.00	-22.73	Vertical
88.96	39.68	13.61	1.10	29.75	24.64	43.50	-18.86	Vertical
235.82	52.41	13.88	2.05	29.53	38.81	46.00	-7.19	Vertical
350.48	36.92	16.27	2.62	29.73	26.08	46.00	-19.92	Vertical
494.20	36.82	18.45	3.28	29.31	29.24	46.00	-16.76	Vertical
633.91	44.25	20.58	3.85	29.27	39.41	46.00	-6.59	Vertical
94.76	45.00	14.84	1.15	29.72	31.27	43.50	-12.23	Horizontal
230.91	52.96	13.67	2.02	29.48	39.17	46.00	-6.83	Horizontal
350.48	43.17	16.27	2.62	29.73	32.33	46.00	-13.67	Horizontal
547.10	36.81	19.51	3.51	29.30	30.53	46.00	-15.47	Horizontal
755.39	35.99	21.53	4.29	29.20	32.61	46.00	-13.39	Horizontal
851.04	37.92	22.60	4.66	29.15	36.03	46.00	-9.97	Horizontal



■ Above 1GHz

Test mode:		802.11b		Test	channel:	Lowe	est	
Peak value:		T	Γ	T	ı		T	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	40.99	31.79	8.62	32.10	49.30	74.00	-24.70	Vertical
7236.00	34.66	36.19	11.68	31.97	50.56	74.00	-23.44	Vertical
9648.00	33.03	38.07	14.16	31.56	53.70	74.00	-20.30	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	39.55	31.79	8.62	32.10	47.86	74.00	-26.14	Horizontal
7236.00	34.35	36.19	11.68	31.97	50.25	74.00	-23.75	Horizontal
9648.00	32.58	38.07	14.16	31.56	53.25	74.00	-20.75	Horizontal
12060.00	*					74.00		Horizontal
14472.00	*					74.00		Horizontal
16884.00	*					74.00		Horizontal
Average val							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
4824.00	30.02	31.79	8.62	32.10	38.33	54.00	-15.67	Vertical
7236.00	23.51	36.19	11.68	31.97	39.41	54.00	-14.59	Vertical
9648.00	23.36	38.07	14.16	31.56	44.03	54.00	-9.97	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	29.06	31.79	8.62	32.10	37.37	54.00	-16.63	Horizontal
7236.00	22.93	36.19	11.68	31.97	38.83	54.00	-15.17	Horizontal
9648.00	22.32	38.07	14.16	31.56	42.99	54.00	-11.01	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	39.93	31.85	8.66	32.12	48.32	74.00	-25.68	Vertical
7311.00	34.66	36.37	11.71	31.91	50.83	74.00	-23.17	Vertical
9748.00	33.99	38.27	14.25	31.56	54.95	74.00	-19.05	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	40.32	31.85	8.66	32.12	48.71	74.00	-25.29	Horizontal
7311.00	33.25	36.37	11.71	31.91	49.42	74.00	-24.58	Horizontal
9748.00	33.86	38.27	14.25	31.56	54.82	74.00	-19.18	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	30.74	31.85	8.66	32.12	39.13	54.00	-14.87	Vertical
7311.00	22.96	36.37	11.71	31.91	39.13	54.00	-14.87	Vertical
9748.00	23.24	38.27	14.25	31.56	44.20	54.00	-9.80	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	30.40	31.85	8.66	32.12	38.79	54.00	-15.21	Horizontal
7311.00	22.33	36.37	11.71	31.91	38.50	54.00	-15.50	Horizontal
9748.00	23.57	38.27	14.25	31.56	44.53	54.00	-9.47	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	t 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	45.88	31.90	8.70	32.15	54.33	74.00	-19.67	Vertical
7386.00	35.60	36.49	11.76	31.83	52.02	74.00	-21.98	Vertical
9848.00	37.48	38.62	14.31	31.77	58.64	74.00	-15.36	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	45.03	31.90	8.70	32.15	53.48	74.00	-20.52	Horizontal
7386.00	34.42	36.49	11.76	31.83	50.84	74.00	-23.16	Horizontal
9848.00	33.62	38.62	14.31	31.77	54.78	74.00	-19.22	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	36.71	31.90	8.70	32.15	45.16	54.00	-8.84	Vertical
7386.00	25.49	36.49	11.76	31.83	41.91	54.00	-12.09	Vertical
9848.00	25.96	38.62	14.31	31.77	47.12	54.00	-6.88	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	35.34	31.90	8.70	32.15	43.79	54.00	-10.21	Horizontal
7386.00	23.79	36.49	11.76	31.83	40.21	54.00	-13.79	Horizontal
9848.00	22.86	38.62	14.31	31.77	44.02	54.00	-9.98	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	39.76	31.79	8.62	32.10	48.07	74.00	-25.93	Vertical
7236.00	33.88	36.19	11.68	31.97	49.78	74.00	-24.22	Vertical
9648.00	32.47	38.07	14.16	31.56	53.14	74.00	-20.86	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	38.51	31.79	8.62	32.10	46.82	74.00	-27.18	Horizontal
7236.00	33.67	36.19	11.68	31.97	49.57	74.00	-24.43	Horizontal
9648.00	32.07	38.07	14.16	31.56	52.74	74.00	-21.26	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	28.89	31.79	8.62	32.10	37.20	54.00	-16.80	Vertical
7236.00	22.76	36.19	11.68	31.97	38.66	54.00	-15.34	Vertical
9648.00	22.83	38.07	14.16	31.56	43.50	54.00	-10.50	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertica
4824.00	28.08	31.79	8.62	32.10	36.39	54.00	-17.61	Horizontal
7236.00	22.27	36.19	11.68	31.97	38.17	54.00	-15.83	Horizontal
9648.00	21.83	38.07	14.16	31.56	42.50	54.00	-11.50	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	38.91	31.85	8.66	32.12	47.30	74.00	-26.70	Vertical
7311.00	34.01	36.37	11.71	31.91	50.18	74.00	-23.82	Vertical
9748.00	33.53	38.27	14.25	31.56	54.49	74.00	-19.51	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	39.46	31.85	8.66	32.12	47.85	74.00	-26.15	Horizontal
7311.00	32.69	36.37	11.71	31.91	48.86	74.00	-25.14	Horizontal
9748.00	33.44	38.27	14.25	31.56	54.40	74.00	-19.60	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	29.80	31.85	8.66	32.12	38.19	54.00	-15.81	Vertical
7311.00	22.34	36.37	11.71	31.91	38.51	54.00	-15.49	Vertical
9748.00	22.80	38.27	14.25	31.56	43.76	54.00	-10.24	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	29.59	31.85	8.66	32.12	37.98	54.00	-16.02	Horizontal
7311.00	21.78	36.37	11.71	31.91	37.95	54.00	-16.05	Horizontal
9748.00	23.16	38.27	14.25	31.56	44.12	54.00	-9.88	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:	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	44.12	31.90	8.70	32.15	52.57	74.00	-21.43	Vertical
7386.00	34.49	36.49	11.76	31.83	50.91	74.00	-23.09	Vertical
9848.00	36.69	38.62	14.31	31.77	57.85	74.00	-16.15	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	43.55	31.90	8.70	32.15	52.00	74.00	-22.00	Horizontal
7386.00	33.45	36.49	11.76	31.83	49.87	74.00	-24.13	Horizontal
9848.00	32.88	38.62	14.31	31.77	54.04	74.00	-19.96	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	35.10	31.90	8.70	32.15	43.55	54.00	-10.45	Vertical
7386.00	24.42	36.49	11.76	31.83	40.84	54.00	-13.16	Vertical
9848.00	25.20	38.62	14.31	31.77	46.36	54.00	-7.64	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	33.95	31.90	8.70	32.15	42.40	54.00	-11.60	Horizontal
7386.00	22.85	36.49	11.76	31.83	39.27	54.00	-14.73	Horizontal
9848.00	22.15	38.62	14.31	31.77	43.31	54.00	-10.69	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					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:	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	40.09	31.79	8.62	32.10	48.40	74.00	-25.60	Vertical
7236.00	34.09	36.19	11.68	31.97	49.99	74.00	-24.01	Vertical
9648.00	32.62	38.07	14.16	31.56	53.29	74.00	-20.71	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	38.79	31.79	8.62	32.10	47.10	74.00	-26.90	Horizontal
7236.00	33.86	36.19	11.68	31.97	49.76	74.00	-24.24	Horizontal
9648.00	32.21	38.07	14.16	31.56	52.88	74.00	-21.12	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	29.19	31.79	8.62	32.10	37.50	54.00	-16.50	Vertical
7236.00	22.96	36.19	11.68	31.97	38.86	54.00	-15.14	Vertical
9648.00	22.97	38.07	14.16	31.56	43.64	54.00	-10.36	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	28.34	31.79	8.62	32.10	36.65	54.00	-17.35	Horizontal
7236.00	22.44	36.19	11.68	31.97	38.34	54.00	-15.66	Horizontal
9648.00	21.96	38.07	14.16	31.56	42.63	54.00	-11.37	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*	_				54.00		Horizontal
16884.00	*					54.00		Horizontal

Remark:

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

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



Test mode:		802.11n(H	IT20)	Tes	t channel:	Midd	le	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	39.18	31.85	8.66	32.12	47.57	74.00	-26.43	Vertical
7311.00	34.18	36.37	11.71	31.91	50.35	74.00	-23.65	Vertical
9748.00	33.66	38.27	14.25	31.56	54.62	74.00	-19.38	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	39.69	31.85	8.66	32.12	48.08	74.00	-25.92	Horizontal
7311.00	32.84	36.37	11.71	31.91	49.01	74.00	-24.99	Horizontal
9748.00	33.55	38.27	14.25	31.56	54.51	74.00	-19.49	Horizontal
12185.00	*					74.00		Horizontal
14622.00	*					74.00		Horizontal
17059.00	*					74.00		Horizontal
Average val	ue:							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	30.05	31.85	8.66	32.12	38.44	54.00	-15.56	Vertical
7311.00	22.50	36.37	11.71	31.91	38.67	54.00	-15.33	Vertical
9748.00	22.91	38.27	14.25	31.56	43.87	54.00	-10.13	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	29.81	31.85	8.66	32.12	38.20	54.00	-15.80	Horizontal
7311.00	21.93	36.37	11.71	31.91	38.10	54.00	-15.90	Horizontal
9748.00	23.27	38.27	14.25	31.56	44.23	54.00	-9.77	Horizontal
12185.00	*					54.00		Horizontal
14622.00	*					54.00		Horizontal
17059.00	*					54.00		Horizontal

Remark:

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

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



Test mode:		802.11n(H	IT20)	Test	channel:	High	est	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	44.59	31.90	8.70	32.15	53.04	74.00	-20.96	4924.00
7386.00	34.78	36.49	11.76	31.83	51.20	74.00	-22.80	7386.00
9848.00	36.90	38.62	14.31	31.77	58.06	74.00	-15.94	9848.00
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	43.94	31.90	8.70	32.15	52.39	74.00	-21.61	Horizontal
7386.00	33.71	36.49	11.76	31.83	50.13	74.00	-23.87	Horizontal
9848.00	33.08	38.62	14.31	31.77	54.24	74.00	-19.76	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	35.53	31.90	8.70	32.15	43.98	54.00	-10.02	Vertical
7386.00	24.71	36.49	11.76	31.83	41.13	54.00	-12.87	Vertical
9848.00	25.41	38.62	14.31	31.77	46.57	54.00	-7.43	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	34.32	31.90	8.70	32.15	42.77	54.00	-11.23	Horizontal
7386.00	23.10	36.49	11.76	31.83	39.52	54.00	-14.48	Horizontal
9848.00	22.34	38.62	14.31	31.77	43.50	54.00	-10.50	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	st	
Peak value:		'								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)		Level (dBuV/m)	Limit (dBu)		Over Limit (dB)	polarization
4844.00	39.10	31.81	8.63	32.11		47.43	74.	00	-26.57	Vertical
7266.00	33.47	36.28	11.69	31	.94	49.50	74.	00	-24.50	Vertical
9688.00	32.18	38.13	14.21	31	.52	53.00	74.	00	-21.00	Vertical
12060.00	*						74.	00		Vertical
14472.00	*						74.	00		Vertical
16884.00	*						74.	00		Vertical
4844.00	37.96	31.81	8.63	32	.11	46.29	74.	00	-27.71	Horizontal
7266.00	33.31	36.28	11.69	31	.94	49.34	74.	00	-24.66	Horizontal
9688.00	31.80	38.13	14.21	31	.52	52.62	74.	00	-21.38	Horizontal
12060.00	*						74.	00		Horizontal
14472.00	*						74.	00		Horizontal
16884.00	*						74.	00		Horizontal
16884.00							74.	00		Horizont

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	28.28	31.81	8.63	32.11	36.61	54.00	-17.39	Vertical
7266.00	22.36	36.28	11.69	31.94	38.39	54.00	-15.61	Vertical
9688.00	22.54	38.13	14.21	31.52	43.36	54.00	-10.64	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4844.00	27.56	31.81	8.63	32.11	35.89	54.00	-18.11	Horizontal
7266.00	21.91	36.28	11.69	31.94	37.94	54.00	-16.06	Horizontal
9688.00	21.56	38.13	14.21	31.52	42.38	54.00	-11.62	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:

Report No.: GTS201605000144E02

Middle

restilloue.		002.1111(11140) Test chamilei.				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	38.37	31.85	8.66	32.12	46.76	74.00	-27.24	Vertical		
7311.00	33.67	36.37	11.71	31.91	49.84	74.00	-24.16	Vertical		
9748.00	33.29	38.27	14.25	31.56	54.25	74.00	-19.75	Vertical		
12185.00	*					74.00		Vertical		
14622.00	*					74.00		Vertical		
17059.00	*					74.00		Vertical		
4874.00	39.00	31.85	8.66	32.12	47.39	74.00	-26.61	Horizontal		
7311.00	32.39	36.37	11.71	31.91	48.56	74.00	-25.44	Horizontal		
9748.00	33.21	38.27	14.25	31.56	54.17	74.00	-19.83	Horizontal		
12185.00						74.00		Horizontal		
14622.00	*					74.00		Horizontal		
17059.00	*					74.00		Horizontal		
Average val	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		
	Level	Factor	Loss	Factor			Limit	polarization Vertical		
(MHz)	Level (dBuV)	Factor (dB/m)	Loss (dB)	Factor (dB)	(dBuV/m)	(dBuV/m)	Limit (dB)	•		
(MHz) 4874.00	Level (dBuV) 29.30	Factor (dB/m) 31.85	Loss (dB) 8.66	Factor (dB) 32.12	(dBuV/m) 37.69	(dBuV/m) 54.00	Limit (dB) -16.31	Vertical		
(MHz) 4874.00 7311.00	Level (dBuV) 29.30 22.01	Factor (dB/m) 31.85 36.37	Loss (dB) 8.66 11.71	Factor (dB) 32.12 31.91	(dBuV/m) 37.69 38.18	(dBuV/m) 54.00 54.00	Limit (dB) -16.31 -15.82	Vertical Vertical		
(MHz) 4874.00 7311.00 9748.00	Level (dBuV) 29.30 22.01 22.56	Factor (dB/m) 31.85 36.37	Loss (dB) 8.66 11.71	Factor (dB) 32.12 31.91	(dBuV/m) 37.69 38.18	(dBuV/m) 54.00 54.00 54.00	Limit (dB) -16.31 -15.82	Vertical Vertical Vertical		
(MHz) 4874.00 7311.00 9748.00 12185.00	Level (dBuV) 29.30 22.01 22.56	Factor (dB/m) 31.85 36.37	Loss (dB) 8.66 11.71	Factor (dB) 32.12 31.91	(dBuV/m) 37.69 38.18	(dBuV/m) 54.00 54.00 54.00 54.00	Limit (dB) -16.31 -15.82	Vertical Vertical Vertical Vertical		
(MHz) 4874.00 7311.00 9748.00 12185.00 14622.00	Level (dBuV) 29.30 22.01 22.56 *	Factor (dB/m) 31.85 36.37	Loss (dB) 8.66 11.71	Factor (dB) 32.12 31.91	(dBuV/m) 37.69 38.18	(dBuV/m) 54.00 54.00 54.00 54.00 54.00	Limit (dB) -16.31 -15.82	Vertical Vertical Vertical Vertical Vertical		
(MHz) 4874.00 7311.00 9748.00 12185.00 14622.00 17059.00	Level (dBuV) 29.30 22.01 22.56 *	Factor (dB/m) 31.85 36.37 38.27	Loss (dB) 8.66 11.71 14.25	Factor (dB) 32.12 31.91 31.56	(dBuV/m) 37.69 38.18 43.52	(dBuV/m) 54.00 54.00 54.00 54.00 54.00 54.00	Limit (dB) -16.31 -15.82 -10.48	Vertical Vertical Vertical Vertical Vertical Vertical Vertical		
(MHz) 4874.00 7311.00 9748.00 12185.00 14622.00 17059.00 4874.00	Level (dBuV) 29.30 22.01 22.56 * * 29.16	Factor (dB/m) 31.85 36.37 38.27	Loss (dB) 8.66 11.71 14.25	Factor (dB) 32.12 31.91 31.56	(dBuV/m) 37.69 38.18 43.52 37.55	(dBuV/m) 54.00 54.00 54.00 54.00 54.00 54.00 54.00 54.00	Limit (dB) -16.31 -15.82 -10.48	Vertical Vertical Vertical Vertical Vertical Vertical Horizontal		
(MHz) 4874.00 7311.00 9748.00 12185.00 14622.00 17059.00 4874.00 7311.00	Level (dBuV) 29.30 22.01 22.56 * * 29.16 21.49	Factor (dB/m) 31.85 36.37 38.27 31.85 36.37	Loss (dB) 8.66 11.71 14.25 8.66 11.71	Factor (dB) 32.12 31.91 31.56 32.12 31.91	(dBuV/m) 37.69 38.18 43.52 37.55 37.66	(dBuV/m) 54.00 54.00 54.00 54.00 54.00 54.00 54.00 54.00 54.00	Limit (dB) -16.31 -15.82 -10.48 -16.45 -16.34	Vertical Vertical Vertical Vertical Vertical Vertical Horizontal Horizontal		
(MHz) 4874.00 7311.00 9748.00 12185.00 14622.00 17059.00 4874.00 7311.00 9748.00	Level (dBuV) 29.30 22.01 22.56 * * 29.16 21.49 22.94	Factor (dB/m) 31.85 36.37 38.27 31.85 36.37	Loss (dB) 8.66 11.71 14.25 8.66 11.71	Factor (dB) 32.12 31.91 31.56 32.12 31.91	(dBuV/m) 37.69 38.18 43.52 37.55 37.66	(dBuV/m) 54.00 54.00 54.00 54.00 54.00 54.00 54.00 54.00 54.00 54.00	Limit (dB) -16.31 -15.82 -10.48 -16.45 -16.34	Vertical Vertical Vertical Vertical Vertical Vertical Horizontal Horizontal Horizontal		

Test channel:

Remark:

802.11n(HT40)

^{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:		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	43.18	31.88	8.68	32.13	51.61	74.00	-22.39	Vertical
7356.00	33.89	36.45	11.75	31.86	50.23	74.00	-23.77	Vertical
9808.00	36.26	38.43	14.29	31.68	57.30	74.00	-16.70	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4904.00	42.75	31.88	8.68	32.13	51.18	74.00	-22.82	Horizontal
7356.00	32.93	36.45	11.75	31.86	49.27	74.00	-24.73	Horizontal
9808.00	32.49	38.43	14.29	31.68	53.53	74.00	-20.47	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
4904.00	34.23	31.88	8.68	32.13	42.66	54.00	-11.34	Vertical
7356.00	23.85	36.45	11.75	31.86	40.19	54.00	-13.81	Vertical
9808.00	24.80	38.43	14.29	31.68	45.84	54.00	-8.16	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4904.00	33.21	31.88	8.68	32.13	41.64	54.00	-12.36	Horizontal
7356.00	22.35	36.45	11.75	31.86	38.69	54.00	-15.31	Horizontal
9808.00	21.78	38.43	14.29	31.68	42.82	54.00	-11.18	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					54.00		Horizontal

Remark:

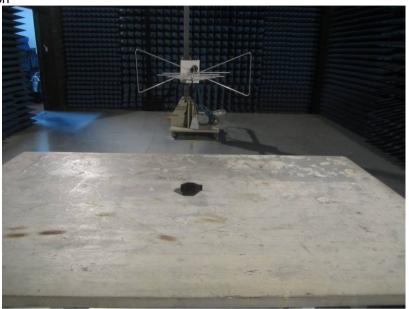
¹ Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

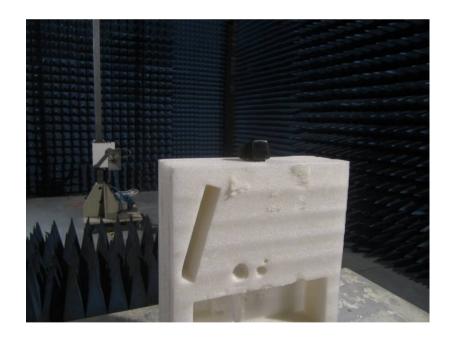
^{2 &}quot;*", means this data is the too weak instrument of signal is unable to test.



8 Test Setup Photo

Radiated Emission







Conducted Emission



9 EUT Constructional Details

Reference to the test report No. GTS201605000144E01

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