

Global United Technology Services Co., Ltd.

Report No.: GTS201612000141F02

FCC Report (WIFI)

Applicant: Autel Intelligent Tech. Corp., Ltd.

Address of Applicant: 6th - 10th Floor, Bldg. B1, Zhiyuan, Xueyuan Rd., Xili,

Nanshan, Shenzhen, China

Manufacturer/ Factory: Autel Intelligent Tech. Corp., Ltd.

Address of 6th - 10th Floor, Bldg. B1, Zhiyuan, Xueyuan Rd., Xili,

Manufacturer/ Factory: Nanshan, Shenzhen, China

Equipment Under Test (EUT)

Product Name: AUTOMOTIVE DIAGNOSTIC & ANALYSIS SYSTEM

Model No.: MaxiSys, MaxiSys Pro

Trade Mark: AUTEL

FCC ID: WQ8MAXISYSMY908

Applicable standards: FCC CFR Title 47 Part 15.247:2016

Date of sample receipt: January 08, 2017

Date of Test: January 09-16, 2017

Date of report issued: January 17, 2017

Test Result: PASS *

Authorized Signature:

Robinson Lo Laboratory Manager

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

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



2 Version

Version No.	Date	Description
01	January 17, 2017	Original

Prepared By:	Tiger. Ohn	Date:	January 17, 2017	
	Project Engineer			
Check By:	Andy un	Date:	January 17, 2017	
	Poviower			



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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

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 General Description of EUT

AUTOMOTIVE DIAGNOSTIC & ANALYSIS SYSTEM
MaxiSys, MaxiSys Pro
MaxiSys
Remark: All above models are identical in the same PCB layout, interior structure and electrical circuits. The only difference is the model name for commercial purpose.
802.11b/802.11g/802.11n(HT20): 2412MHz~2462MHz
802.11n(HT40): 2422MHz~2452MHz
802.11b/802.11g /802.11n(HT20): 11
802.11(HT40): 7
5MHz
802.11b: Direct Sequence Spread Spectrum (DSSS)
802.11g/802.11n(H20)/802.11n(H40):
Orthogonal Frequency Division Multiplexing (OFDM)
Integral Antenna
0.68dBi
Model No.:GFP361DA-1230-1
Input: AC 100~240V~50/60Hz 1.2A
Output: DC 12.0V 3.0A
DC 3.7V Li-ion Battery



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

Note:

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

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

5.2 Test mode

Transmitting mode	Keep the EUT in continuously transmitting mode
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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

5.3 Description of Support Units

None.



5.4 Test Facility

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

• FCC —Registration No.: 600491

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

5.5 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

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

Tel: 0755-27798480 Fax: 0755-27798960



6 Test Instruments list

Rad	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			

Conduc	Conducted Emission:							
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)		
1	Shielding Room	ZhongYu Electron	7.3(L)x3.1(W)x2.9(H)	GTS252	May.16 2014	May.15 2019		
2	EMI Test Receiver	R&S	ESCI 7	GTS552	June. 29 2016	June. 28 2017		
3	Coaxial Switch	ANRITSU CORP	MP59B	GTS225	June. 29 2016	June. 28 2017		
4	Artificial Mains Network	SCHWARZBECK MESS	NSLK8127	GTS226	June. 29 2016	June. 28 2017		
5	Coaxial Cable	GTS	N/A	GTS227	N/A	N/A		
6	EMI Test Software	AUDIX	E3	N/A	N/A	N/A		
7	Thermo meter	KTJ	TA328	GTS233	June. 29 2016	June. 28 2017		

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 PCB antenna, the best case gain of the antenna is 0.68dBi





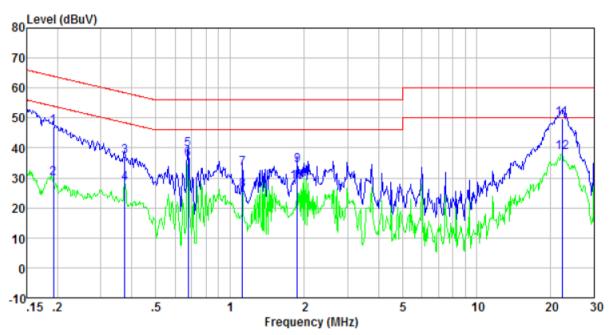
7.2 Conducted Emissions

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, St				
Limit:	Frequency range (MHz)	Limit (c			
		Quasi-peak 66 to 56*	Average		
	0.15-0.5 0.5-5	56	56 to 46* 46		
	5-30	60	50		
	* Decreases with the logarithn				
Test setup:	Reference Plane	•			
	AUX Equipment Test table/Insulation plane Remark E.U.T. Equipment Under Test LISN Line Impedence Stabilization Network Test table height=0.8m	Filter — AC pow	ver		
Test procedure:	 The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 500hm/50uH coupling impedance for the measuring equipment. 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). Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10:2013 on conducted measurement. 				
Test Instruments:	Refer to section 6.0 for details				
Test mode:	Refer to section 5.2 for details				
Test results:	Pass				



Measurement data

Line:

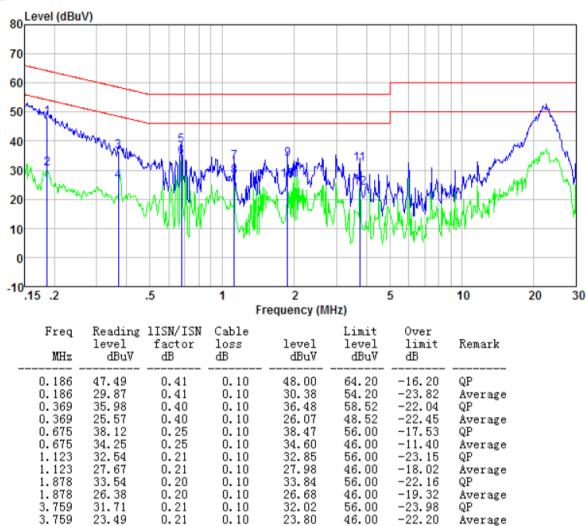


Freq	Reading level dBuV	1ISN/ISN factor dB	Cable loss dB	level dBuV	Limit level dBuV	Over limit dB	Remark
0. 192 0. 192 0. 375 0. 375 0. 675 0. 675 1. 123 1. 123 1. 878 1. 878 22. 180	46. 57 29. 42 36. 52 27. 79 39. 11 35. 61 32. 72 25. 50 33. 98 28. 19 49. 13	0. 43 0. 42 0. 42 0. 42 0. 29 0. 25 0. 25 0. 20 0. 20 0. 33	0. 10 0. 10	47. 10 29. 95 37. 04 28. 31 39. 50 36. 00 33. 07 25. 85 34. 28 28. 49 49. 67	63.93 53.93 58.39 48.39 56.00 46.00 56.00 46.00 46.00 60.00	-16.83 -23.98 -21.35 -20.08 -16.50 -10.00 -22.93 -20.15 -21.72 -17.51 -10.33	QP Average QP Average QP Average QP Average QP Average QP Average QP
22.180	37.96	0.33	0.21	38.50	50.00	-11.50	Average

Remarks:level = Reading level + Antenna factor + Cable loss



Neutral:

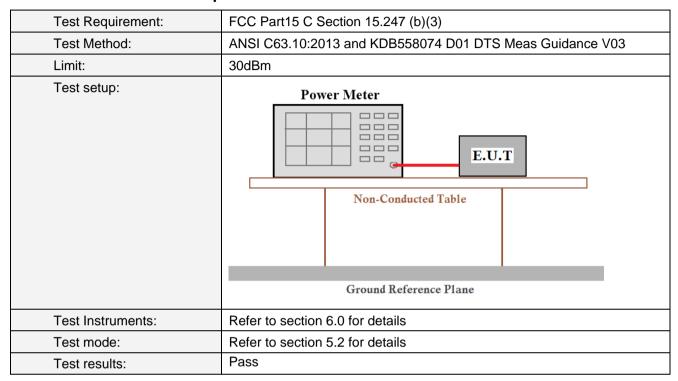


- 1. An initial pre-scan was performed on the line and neutral lines with peak detector.
- 2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3. Final Level =Receiver Read level + LISN Factor + Cable Loss
- 4. If the average limit is met when using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

Average



7.3 Conducted Peak Output Power



Measurement Data

Test CH		Peak Outp	ut Power (dBm)		Limit(dBm)	Result
1631 011	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	Limit(abin)	Nesuit
Lowest	16.17	16.58	16.49	16.42		
Middle	16.70	18.04	18.35	17.36	30.00	Pass
Highest	16.17	18.38	18.49	17.64		



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 5.2 for details	
Test results:	Pass	

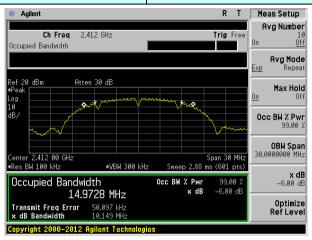
Measurement Data

Test CH		Channel E	Limit(KHz)	Result		
1631 011	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	Littiit(IXI IZ)	Nesuit
Lowest	10.149	16.557	17.819	36.572		
Middle	10.140	16.584	17.815	36.590	>500	Pass
Highest	10.153	16.576	17.796	36.585		

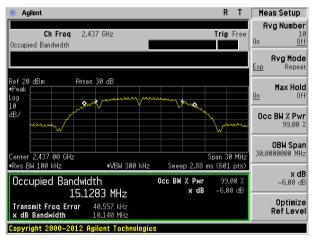
Test plot as follows:

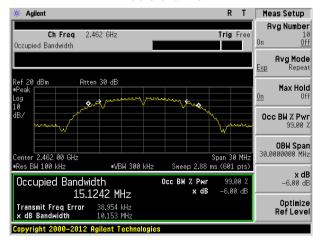


Test mode: 802.11b



Lowest channel

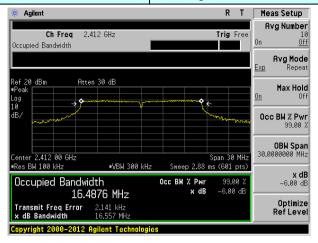




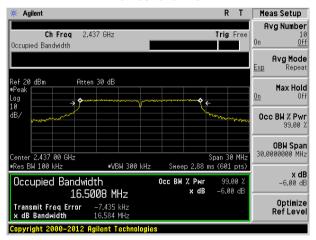
Highest channel

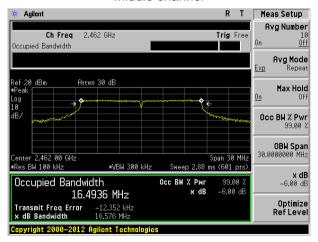


Test mode: 802.11g



Lowest channel

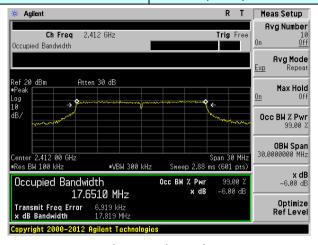




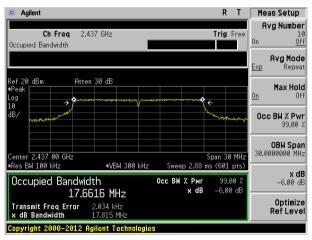
Highest channel

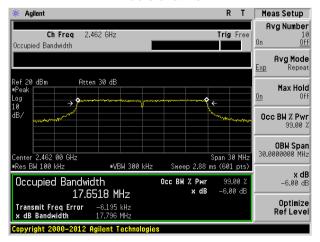


Test mode: 802.11n(HT20)



Lowest channel

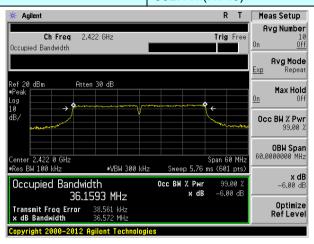




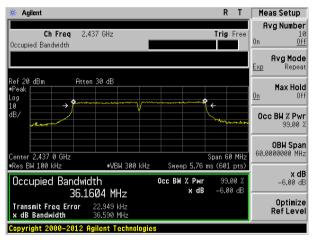
Highest channel

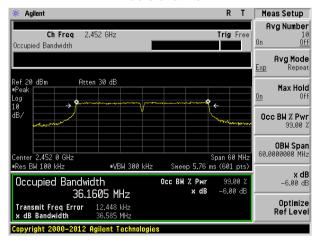


Test mode: 802.11n(HT40)



Lowest 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 5.2 for details	
Test results:	Pass	

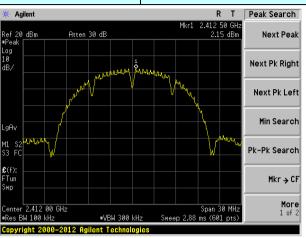
Measurement Data

Test CH		Power Spe	Limit	Result		
1631 011	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	(dBm/3kHz)	Nesuit
Lowest	2.15	-0.36	-1.15	-3.70		
Middle	3.39	0.76	0.56	-3.02	8.00	Pass
Highest	3.96	0.64	1.47	-2.85		

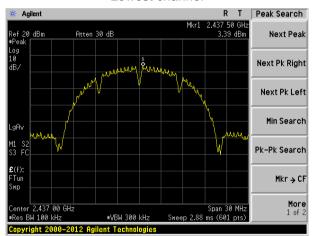


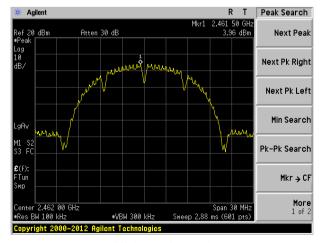
Test plot as follows:

Test mode: 802.11b



Lowest channel

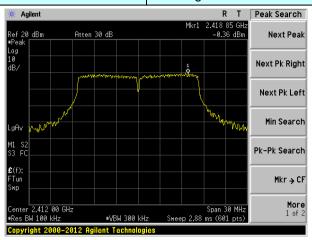




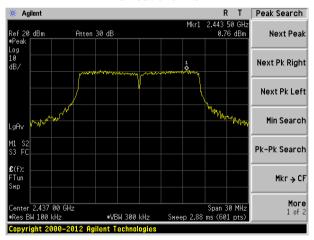
Highest channel

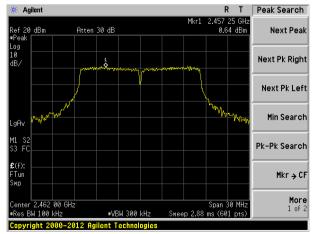


Test mode: 802.11g



Lowest channel

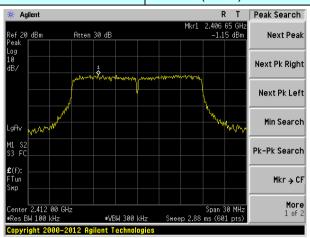




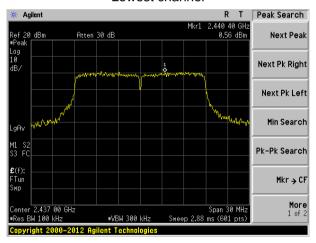
Highest channel

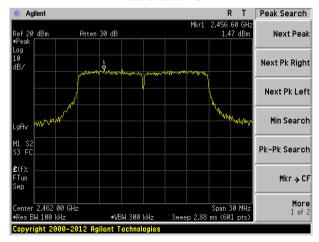


Test mode: 802.11n(HT20)



Lowest channel

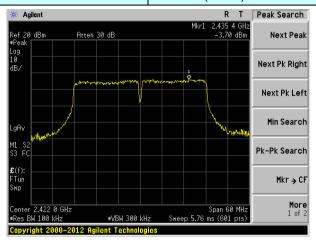




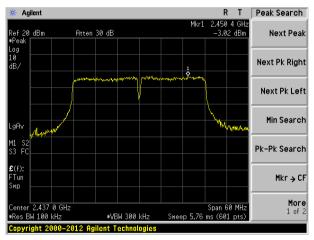
Highest channel

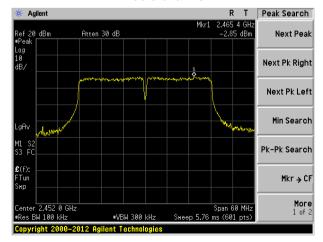


Test mode: 802.11n(HT40)



Lowest channel





Highest channel



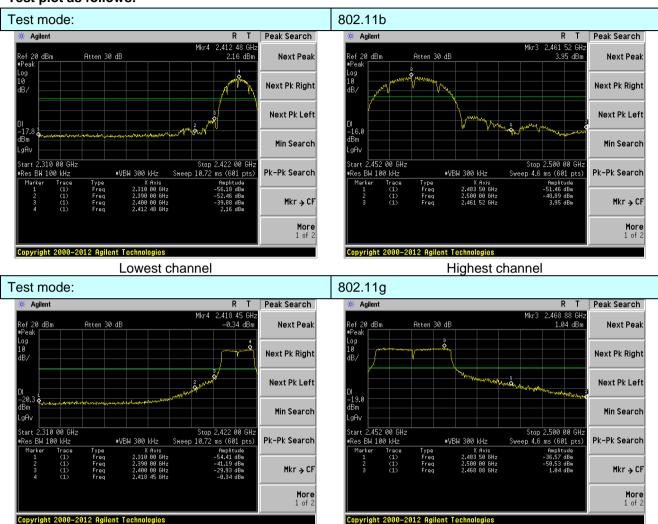
7.6 Band edges

7.6.1 Conducted Emission Method

	T		
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 5.2 for details		
Test results:	Pass		

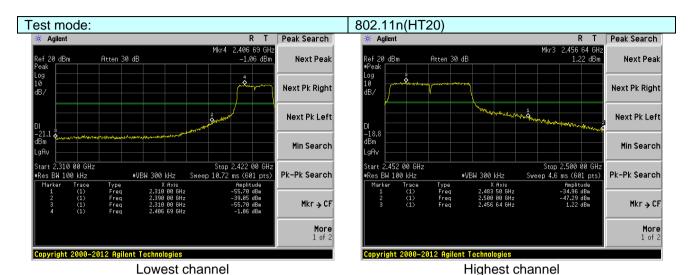


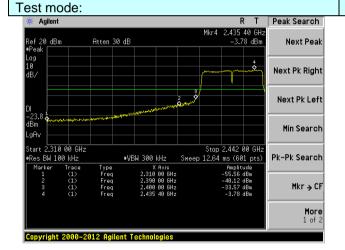
Test plot as follows:

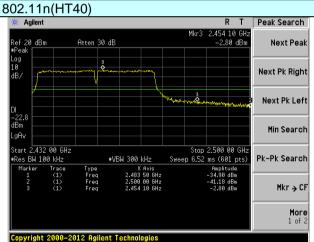


Lowest channel Highest channel









Lowest channel

Highest channel



7.6.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209 and 15.205					
Test Method:	ANSI C63.10:20					
Test Frequency Range:			tested, only	the worst ba	ind's (2310MHz to	
	2500MHz) data					
Test site:	Measurement D	Distance: 3m				
Receiver setup:	Frequency	Detector	RBW	VBW	Value	
	Above 1GHz	Peak	1MHz	3MHz	Peak	
	Above Toriz	Average	1MHz	3MHz	Average	
Limit:	Freque	Frequency Above 1GHz		/m @3m)	Value	
	Above 1			0	Average	
Test setup:	713010	02	74.0	0	Peak	
	Tum Table			Antenna - 4m > 1	T+1	
Test Procedure:	the ground a determine the 2. The EUT was antenna, whice tower. 3. The antenna ground to deshorizontal and measuremer. 4. For each sus and then the and the rota the maximum. 5. The test-recesspecified Bas. 6. If the emission the limit specified Bas. 6. If the and the rota the maximum. 7. The radiation the rota the maximum.	t a 3 meter cate position of the set 3 meters chewas mount height is varietermine the mid vertical polant. Spected emission antenna was table was turn reading. Eiver system with a level of the cified, then test rould be report nargin would be age method at a measurement.	mber. The tall he highest race away from the don the top ed from one maximum value inizations of the top ed from 0 de was set to Peadaximum Hole EUT in peak ting could be ted. Otherwisse re-tested on sepecified are tested on the sare performance in the sare performance	ole was rotated diation. The interference of a variable neter to four experience of the field ne antenna at the antenna at the antenna at the antenna at the emission of the emission of the report of the antenna at th	meters above the strength. Both re set to make the d to its worst case eter to 4 meters degrees to find anction and OdB lower than I the peak values ons that did not sing peak, quasi-	



	worst case mode is recorded in the report.
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

Measurement data:

Test mode: 802.11b Test	Test 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)	Over Limit (dB)	Polarization
2390.00	50.79	27.59	5.38	34.01	49.75	74.00	-24.25	Horizontal
2400.00	65.52	27.58	5.39	34.01	64.48	74.00	-9.52	Horizontal
2390.00	52.41	27.59	5.38	34.01	51.37	74.00	-22.63	Vertical
2400.00	70.08	27.58	5.39	34.01	69.04	74.00	-4.96	Vertical

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	37.80	27.59	5.38	34.01	36.76	54.00	-17.24	Horizontal
2400.00	47.00	27.58	5.39	34.01	45.96	54.00	-8.04	Horizontal
2390.00	39.55	27.59	5.38	34.01	38.51	54.00	-15.49	Vertical
2400.00	49.06	27.58	5.39	34.01	48.02	54.00	-5.98	Vertical

Test mode:	802.11b	Test channel:	Highest
10011110001	002.1.10	1 oot onarmon	1 11911001

Peak value:

	=							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	51.08	27.53	5.47	33.92	50.16	74.00	-23.84	Horizontal
2500.00	47.18	27.55	5.49	29.93	50.29	74.00	-23.71	Horizontal
2483.50	53.16	27.53	5.47	33.92	52.24	74.00	-21.76	Vertical
2500.00	49.53	27.55	5.49	29.93	52.64	74.00	-21.36	Vertical

Average value:

The age talue.								
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	38.04	27.53	5.47	33.92	37.12	54.00	-16.88	Horizontal
2500.00	34.30	27.55	5.49	29.93	37.41	54.00	-16.59	Horizontal
2483.50	39.91	27.53	5.47	33.92	38.99	54.00	-15.01	Vertical
2500.00	36.15	27.55	5.49	29.93	39.26	54.00	-14.74	Vertical

Remark:

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

Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960 Page 28 of 53



Test mode:		802.1	1g	Te	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	50.35	27.59	5.38	34.01	49.31	74.00	-24.69	Horizontal
2400.00	68.93	27.58	5.39	34.01	63.89	74.00	-6.11	Horizontal
2390.00	51.94	27.59	5.38	34.01	50.90	74.00	-23.10	Vertical
2400.00	69.38	27.58	5.39	34.01	68.34	74.00	-5.66	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	37.49	27.59	5.38	34.01	36.45	54.00	-17.55	Horizontal
2400.00	46.64	27.58	5.39	34.01	45.60	54.00	-8.40	Horizontal
2390.00	39.20	27.59	5.38	34.01	38.16	54.00	-15.84	Vertical
2400.00	48.67	27.58	5.39	34.01	47.63	54.00	-6.37	Vertical
Test mode:		802.1	1g	Te	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	50.45	27.53	5.47	33.92	49.53	74.00	-24.47	Horizontal
2500.00	46.69	27.55	5.49	29.93	49.80	74.00	-24.20	Horizontal
2483.50	52.44	27.53	5.47	33.92	51.52	74.00	-22.48	Vertical
2500.00	48.96	27.55	5.49	29.93	52.07	74.00	-21.93	Vertical
Average va	lue:	1		7	1	ı	1	1
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	37.65	27.53	5.47	33.92	36.73	54.00	-17.27	Horizontal
2500.00	34.00	27.55	5.49	29.93	37.11	54.00	-16.89	Horizontal
2483.50	39.49	27.53	5.47	33.92	38.57	54.00	-15.43	Vertical
2500.00	35.83	27.55	5.49	29.93	38.94	54.00	-15.06	Vertical
Remark:								

Global United Technology Services Co., Ltd.

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

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.: GTS201612000141F02

Lowest

			` ,						
Peak value:	:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	
2390.00	50.63	27.59	5.38	34.01	49.59	74.00	-24.41	Horizontal	
2400.00	67.31	27.58	5.39	34.01	64.27	74.00	-7.73	Horizontal	
2390.00	52.25	27.59	5.38	34.01	51.21	74.00	-22.79	Vertical	
2400.00	69.83	27.58	5.39	34.01	68.79	74.00	-5.21	Vertical	
Average va	lue:	•		I.	•			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	
2390.00	37.69	27.59	5.38	34.01	36.65	54.00	-17.35	Horizontal	
2400.00	46.87	27.58	5.39	34.01	45.83	54.00	-8.17	Horizontal	
2390.00	39.43	27.59	5.38	34.01	38.39	54.00	-15.61	Vertical	
2400.00	48.92	27.58	5.39	34.01	47.88	54.00	-6.12	Vertical	
•		•		•	•				
Test mode:		802.1	1n(HT20)	Те	st channel:	nannel: 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	50.86	27.53	5.47	33.92	49.94	74.00	-24.06	Horizontal	
2500.00	47.01	27.55	5.49	29.93	50.12	74.00	-23.88	Horizontal	
2483.50	52.91	27.53	5.47	33.92	51.99	74.00	-22.01	Vertical	
2500.00	49.33	27.55	5.49	29.93	52.44	74.00	-21.56	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	37.90	27.53	5.47	33.92	36.98	54.00	-17.02	Horizontal	
2500.00	34.19	27.55	5.49	29.93	37.30	54.00	-16.70	Horizontal	
2483.50	39.76	27.53	5.47	33.92	38.84	54.00	-15.16	Vertical	
2500.00	36.04	27.55	5.49	29.93	39.15	54.00	-14.85	Vertical	
Remark:									

Test channel:

802.11n(HT20)

Global United Technology Services Co., Ltd.

No. 301-309, 3/F., Jinyuan Business Building, No.2, Laodong Industrial Zone,

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.

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



Test mode:

Report No.: GTS201612000141F02

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	49.61	27.59	5.38	34.01	48.57	74.00	-25.43	Horizontal	
2400.00	68.94	27.58	5.39	34.01	62.90	74.00	-6.10	Horizontal	
2390.00	51.15	27.59	5.38	34.01	50.11	74.00	-23.89	Vertical	
2400.00	68.19	27.58	5.39	34.01	67.15	74.00	-6.85	Vertical	
Average va	lue:			•	•	•	•		
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	
2390.00	36.96	27.59	5.38	34.01	35.92	54.00	-18.08	Horizontal	
2400.00	47.04	27.58	5.39	34.01	45.00	54.00	-8.00	Horizontal	
2390.00	38.62	27.59	5.38	34.01	37.58	54.00	-16.42	Vertical	
2400.00	48.00	27.58	5.39	34.01	46.96	54.00	-7.04	Vertical	
Test mode:		802.1	1n(HT40)	Te	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	49.40	27.53	5.47	33.92	48.48	74.00	-25.52	Horizontal	
2500.00	45.88	27.55	5.49	29.93	48.99	74.00	-25.01	Horizontal	
2483.50	51.24	27.53	5.47	33.92	50.32	74.00	-23.68	Vertical	
2500.00	48.00	27.55	5.49	29.93	51.11	74.00	-22.89	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	37.02	27.53	5.47	33.92	36.10	54.00	-17.90	Horizontal	
2500.00	33.51	27.55	5.49	29.93	36.62	54.00	-17.38	Horizontal	
2483.50	38.78	27.53	5.47	33.92	37.86	54.00	-16.14	Vertical	
2500.00	35.31	27.55	5.49	29.93	38.42	54.00	-15.58	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

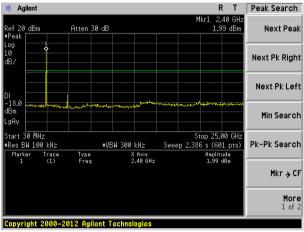
Test Requirement:	FCC Part15 C Section 15.247 (d)					
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance V03					
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the 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 5.2 for details					
Test results:	Pass					

Test plot as follows:



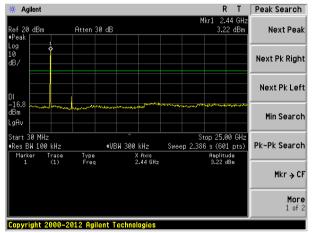
Test mode: 802.11b

Lowest channel



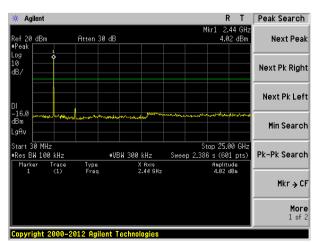
30MHz~25GHz

Middle channel



30MHz~25GHz

Highest channel

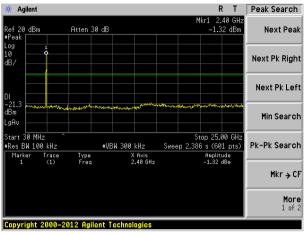


30MHz~25GHz



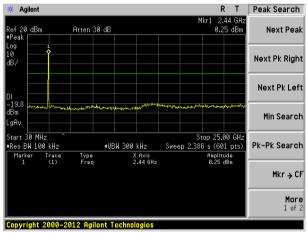
Test mode: 802.11g

Lowest channel



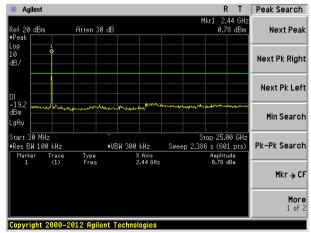
30MHz~25GHz

Middle channel



Highest channel

30MHz~25GHz



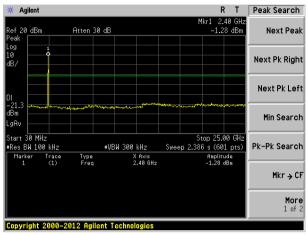
30MHz~25GHz



Test mode:

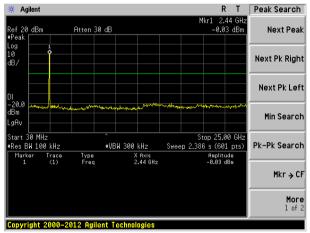
802.11n(HT20)

Lowest channel



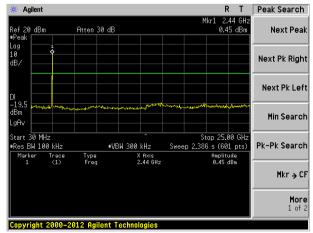
30MHz~25GHz

Middle channel



Highest channel

30MHz~25GHz



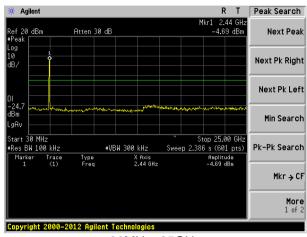
30MHz~25GHz



Test mode:

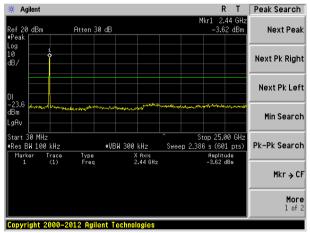
802.11n(HT40)

Lowest channel



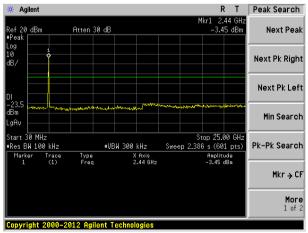
30MHz~25GHz

Middle channel



Highest channel

30MHz~25GHz



30MHz~25GHz



7.7.2 Radiated Emission Method

FCC Part15 C Se	ection 15.209								
ANSI C63.10:2013									
30MHz to 25GHz	<u>, </u>								
Measurement Dis	stance: 3m								
Frequency	Detector	RBW	VBW	Value					
30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak					
Above 1GHz	Peak	1MHz	3MHz	Peak					
Above 1G112	Average	1MHz	3MHz	Average					
Frequen	Frequency Limit (dBuV/m @3m) Value								
30MHz-88MHz 40.00 Quasi-peak									
88MHz-216	88MHz-216MHz 43.50 Quasi-peak								
216MHz-96	216MHz-960MHz 46.00 Quasi-peak								
960MHz-1	960MHz-1GHz 54.00 Quasi-peak								
Above 10	2H-7	54.0	0	Average					
Above 10	J1 12	74.0	0	Peak					
Below 1GHz	EUT+	< 1n n Table _"	a 4m >√	ier-					
	ANSI C63.10:201 30MHz to 25GHz Measurement Dis Frequency 30MHz-1GHz Above 1GHz Frequen 30MHz-88 88MHz-216 216MHz-96 960MHz-1 Above 1C	Measurement Distance: 3m Frequency Detector 30MHz-1GHz Quasi-peak Above 1GHz Peak Average Frequency 30MHz-88MHz 88MHz-216MHz 216MHz-960MHz 960MHz-1GHz Above 1GHz Below 1GHz Below 1GHz	ANSI C63.10:2013 30MHz to 25GHz Measurement Distance: 3m Frequency Detector RBW 30MHz-1GHz Quasi-peak 120KHz Above 1GHz Peak 1MHz Average 1MHz Frequency Limit (dBuV/ 30MHz-88MHz 40.0 88MHz-216MHz 43.5 216MHz-960MHz 46.0 960MHz-1GHz 54.0 Above 1GHz 54.0 Below 1GHz Tum Table Receiver	ANSI C63.10:2013 30MHz to 25GHz Measurement Distance: 3m Frequency Detector RBW VBW 30MHz-1GHz Quasi-peak 120KHz 300KHz Above 1GHz Peak 1MHz 3MHz Average 1MHz 3MHz Frequency Limit (dBuV/m @3m) 30MHz-88MHz 40.00 88MHz-216MHz 43.50 216MHz-960MHz 46.00 960MHz-1GHz 54.00 Above 1GHz 54.00 Below 1GHz Below 1GHz Tum Table Receiver Preamplif					



	Tum Table (150cm > 1
Test Procedure:	1. 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 5.2 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.

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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
38.75	53.32	15.25	0.65	32.06	37.16	40.00	-2.84	Vertical
39.30	53.51	15.39	0.65	32.06	37.49	40.00	-2.51	Vertical
59.65	53.46	14.73	0.86	31.94	37.11	40.00	-2.89	Vertical
60.49	52.20	14.56	0.86	31.94	35.68	40.00	-4.32	Vertical
61.78	53.21	14.03	0.87	31.93	36.18	40.00	-3.82	Vertical
62.21	53.21	13.77	0.88	31.93	35.93	40.00	-4.07	Vertical
106.39	43.14	14.59	1.25	31.79	27.19	43.50	-16.31	Horizontal
109.03	43.65	14.35	1.27	31.81	27.46	43.50	-16.04	Horizontal
132.22	52.11	10.77	1.45	31.91	32.42	43.50	-11.08	Horizontal
135.03	51.63	10.56	1.47	31.92	31.74	43.50	-11.76	Horizontal
136.46	51.81	10.45	1.48	31.93	31.81	43.50	-11.69	Horizontal
146.89	52.08	10.24	1.55	31.97	31.90	43.50	-11.60	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	41.18	31.79	8.62	32.10	49.49	74.00	-24.51	Vertical
7236.00	34.78	36.19	11.68	31.97	50.68	74.00	-23.32	Vertical
9648.00	33.12	38.07	14.16	31.56	53.79	74.00	-20.21	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	39.71	31.79	8.62	32.10	48.02	74.00	-25.98	Horizontal
7236.00	34.46	36.19	11.68	31.97	50.36	74.00	-23.64	Horizontal
9648.00	32.66	38.07	14.16	31.56	53.33	74.00	-20.67	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	30.20	31.79	8.62	32.10	38.51	54.00	-15.49	Vertical
7236.00	23.63	36.19	11.68	31.97	39.53	54.00	-14.47	Vertical
9648.00	23.45	38.07	14.16	31.56	44.12	54.00	-9.88	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	29.21	31.79	8.62	32.10	37.52	54.00	-16.48	Horizontal
7236.00	23.03	36.19	11.68	31.97	38.93	54.00	-15.07	Horizontal
9648.00	22.40	38.07	14.16	31.56	43.07	54.00	-10.93	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal
16884.00	*					54.00		Horizontal

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

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



Test mode:		802.11b		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	40.09	31.85	8.66	32.12	48.48	74.00	-25.52	Vertical
7311.00	34.76	36.37	11.71	31.91	50.93	74.00	-23.07	Vertical
9748.00	34.07	38.27	14.25	31.56	55.03	74.00	-18.97	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	40.45	31.85	8.66	32.12	48.84	74.00	-25.16	Horizontal
7311.00	33.34	36.37	11.71	31.91	49.51	74.00	-24.49	Horizontal
9748.00	33.93	38.27	14.25	31.56	54.89	74.00	-19.11	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	30.88	31.85	8.66	32.12	39.27	54.00	-14.73	Vertical
7311.00	23.06	36.37	11.71	31.91	39.23	54.00	-14.77	Vertical
9748.00	23.31	38.27	14.25	31.56	44.27	54.00	-9.73	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	30.52	31.85	8.66	32.12	38.91	54.00	-15.09	Horizontal
7311.00	22.41	36.37	11.71	31.91	38.58	54.00	-15.42	Horizontal
9748.00	23.63	38.27	14.25	31.56	44.59	54.00	-9.41	Horizontal
12185.00	*					54.00		Horizontal
14622.00	*					54.00		Horizontal
17059.00	*					54.00		Horizontal

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

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



Test mode:		802.11b		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	46.15	31.90	8.70	32.15	54.60	74.00	-19.40	Vertical
7386.00	35.77	36.49	11.76	31.83	52.19	74.00	-21.81	Vertical
9848.00	37.60	38.62	14.31	31.77	58.76	74.00	-15.24	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	45.26	31.90	8.70	32.15	53.71	74.00	-20.29	Horizontal
7386.00	34.57	36.49	11.76	31.83	50.99	74.00	-23.01	Horizontal
9848.00	33.73	38.62	14.31	31.77	54.89	74.00	-19.11	Horizontal
12310.00	*					74.00		Horizontal
14772.00	*					74.00		Horizontal
17234.00	*					74.00		Horizontal
Average val	ue:				_			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	36.97	31.90	8.70	32.15	45.42	54.00	-8.58	Vertical
7386.00	25.66	36.49	11.76	31.83	42.08	54.00	-11.92	Vertical
9848.00	26.08	38.62	14.31	31.77	47.24	54.00	-6.76	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	35.56	31.90	8.70	32.15	44.01	54.00	-9.99	Horizontal
7386.00	23.94	36.49	11.76	31.83	40.36	54.00	-13.64	Horizontal
9848.00	22.97	38.62	14.31	31.77	44.13	54.00	-9.87	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*	_				54.00		Horizontal
17234.00	*					54.00		Horizontal

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

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



Test mode:		802.11g		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	39.58	31.79	8.62	32.10	47.89	74.00	-26.11	Vertical
7236.00	33.77	36.19	11.68	31.97	49.67	74.00	-24.33	Vertical
9648.00	32.39	38.07	14.16	31.56	53.06	74.00	-20.94	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	38.36	31.79	8.62	32.10	46.67	74.00	-27.33	Horizontal
7236.00	33.57	36.19	11.68	31.97	49.47	74.00	-24.53	Horizontal
9648.00	32.00	38.07	14.16	31.56	52.67	74.00	-21.33	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	28.72	31.79	8.62	32.10	37.03	54.00	-16.97	Vertical
7236.00	22.65	36.19	11.68	31.97	38.55	54.00	-15.45	Vertical
9648.00	22.75	38.07	14.16	31.56	43.42	54.00	-10.58	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertica
4824.00	27.94	31.79	8.62	32.10	36.25	54.00	-17.75	Horizontal
7236.00	22.17	36.19	11.68	31.97	38.07	54.00	-15.93	Horizontal
9648.00	21.75	38.07	14.16	31.56	42.42	54.00	-11.58	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*	_				54.00		Horizontal
16884.00	*					54.00		Horizontal

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

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



Test mode:		802.11g		Test	channel:	Midd	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	38.76	31.85	8.66	32.12	47.15	74.00	-26.85	Vertical
7311.00	33.92	36.37	11.71	31.91	50.09	74.00	-23.91	Vertical
9748.00	33.47	38.27	14.25	31.56	54.43	74.00	-19.57	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	39.33	31.85	8.66	32.12	47.72	74.00	-26.28	Horizontal
7311.00	32.61	36.37	11.71	31.91	48.78	74.00	-25.22	Horizontal
9748.00	33.38	38.27	14.25	31.56	54.34	74.00	-19.66	Horizontal
12185.00	*					74.00		Horizontal
14622.00	*					74.00		Horizontal
17059.00	*					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
4874.00	29.66	31.85	8.66	32.12	38.05	54.00	-15.95	Vertical
7311.00	22.25	36.37	11.71	31.91	38.42	54.00	-15.58	Vertical
9748.00	22.73	38.27	14.25	31.56	43.69	54.00	-10.31	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	29.48	31.85	8.66	32.12	37.87	54.00	-16.13	Horizontal
7311.00	21.70	36.37	11.71	31.91	37.87	54.00	-16.13	Horizontal
9748.00	23.10	38.27	14.25	31.56	44.06	54.00	-9.94	Horizontal
12185.00	*					54.00		Horizontal
14622.00	*					54.00		Horizontal
17059.00	*					54.00		Horizontal

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

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



Test mode:		802.11g		Test	channel:	Highe	est	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	43.87	31.90	8.70	32.15	52.32	74.00	-21.68	Vertical
7386.00	34.32	36.49	11.76	31.83	50.74	74.00	-23.26	Vertical
9848.00	36.57	38.62	14.31	31.77	57.73	74.00	-16.27	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	43.33	31.90	8.70	32.15	51.78	74.00	-22.22	Horizontal
7386.00	33.31	36.49	11.76	31.83	49.73	74.00	-24.27	Horizontal
9848.00	32.78	38.62	14.31	31.77	53.94	74.00	-20.06	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	34.86	31.90	8.70	32.15	43.31	54.00	-10.69	Vertical
7386.00	24.26	36.49	11.76	31.83	40.68	54.00	-13.32	Vertical
9848.00	25.09	38.62	14.31	31.77	46.25	54.00	-7.75	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	33.75	31.90	8.70	32.15	42.20	54.00	-11.80	Horizontal
7386.00	22.71	36.49	11.76	31.83	39.13	54.00	-14.87	Horizontal
9848.00	22.05	38.62	14.31	31.77	43.21	54.00	-10.79	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*	_				54.00		Horizontal
17234.00	*					54.00		Horizontal

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

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



Test mode:	802.11	n(HT20)		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	40.27	31.79	8.62	32.10	48.58	74.00	-25.42	Vertical
7236.00	34.20	36.19	11.68	31.97	50.10	74.00	-23.90	Vertical
9648.00	32.70	38.07	14.16	31.56	53.37	74.00	-20.63	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	38.94	31.79	8.62	32.10	47.25	74.00	-26.75	Horizontal
7236.00	33.95	36.19	11.68	31.97	49.85	74.00	-24.15	Horizontal
9648.00	32.28	38.07	14.16	31.56	52.95	74.00	-21.05	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	29.35	31.79	8.62	32.10	37.66	54.00	-16.34	Vertical
7236.00	23.07	36.19	11.68	31.97	38.97	54.00	-15.03	Vertical
9648.00	23.05	38.07	14.16	31.56	43.72	54.00	-10.28	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	28.48	31.79	8.62	32.10	36.79	54.00	-17.21	Horizontal
7236.00	22.53	36.19	11.68	31.97	38.43	54.00	-15.57	Horizontal
9648.00	22.03	38.07	14.16	31.56	42.70	54.00	-11.30	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal
16884.00	*					54.00		Horizontal

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

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



Test mode:	802.11	n(HT20)		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	39.33	31.85	8.66	32.12	47.72	74.00	-26.28	Vertical
7311.00	34.28	36.37	11.71	31.91	50.45	74.00	-23.55	Vertical
9748.00	33.72	38.27	14.25	31.56	54.68	74.00	-19.32	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	39.81	31.85	8.66	32.12	48.20	74.00	-25.80	Horizontal
7311.00	32.92	36.37	11.71	31.91	49.09	74.00	-24.91	Horizontal
9748.00	33.61	38.27	14.25	31.56	54.57	74.00	-19.43	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	30.18	31.85	8.66	32.12	38.57	54.00	-15.43	Vertical
7311.00	22.59	36.37	11.71	31.91	38.76	54.00	-15.24	Vertical
9748.00	22.98	38.27	14.25	31.56	43.94	54.00	-10.06	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	29.92	31.85	8.66	32.12	38.31	54.00	-15.69	Horizontal
7311.00	22.01	36.37	11.71	31.91	38.18	54.00	-15.82	Horizontal
9748.00	23.33	38.27	14.25	31.56	44.29	54.00	-9.71	Horizontal
12185.00	*					54.00		Horizontal
14622.00	*					54.00		Horizontal
17059.00	*					54.00		Horizontal

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

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



Test mode:	802.11	n(HT20)		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	44.84	31.90	8.70	32.15	53.29	74.00	-20.71	4924.00
7386.00	34.94	36.49	11.76	31.83	51.36	74.00	-22.64	7386.00
9848.00	37.01	38.62	14.31	31.77	58.17	74.00	-15.83	9848.00
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	44.15	31.90	8.70	32.15	52.60	74.00	-21.40	Horizontal
7386.00	33.84	36.49	11.76	31.83	50.26	74.00	-23.74	Horizontal
9848.00	33.18	38.62	14.31	31.77	54.34	74.00	-19.66	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	35.76	31.90	8.70	32.15	44.21	54.00	-9.79	Vertical
7386.00	24.86	36.49	11.76	31.83	41.28	54.00	-12.72	Vertical
9848.00	25.51	38.62	14.31	31.77	46.67	54.00	-7.33	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	34.52	31.90	8.70	32.15	42.97	54.00	-11.03	Horizontal
7386.00	23.23	36.49	11.76	31.83	39.65	54.00	-14.35	Horizontal
9848.00	22.44	38.62	14.31	31.77	43.60	54.00	-10.40	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					54.00		Horizontal

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

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



Test mode:	802.11	802.11n(HT40)			Test channel: Lo			Lowe	st	
Peak value:										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Fac	amp ctor B)	Level (dBuV/m)	Limit (dBu		Over Limit (dB)	polarization
4844.00	38.92	31.81	8.63	32.11		47.25	74.00		-26.75	Vertical
7266.00	33.35	36.28	11.69	31.	.94	49.38	74.	00	-24.62	Vertical
9688.00	32.09	38.13	14.21	31.	.52	52.91	74.	00	-21.09	Vertical
12060.00	*						74.	00		Vertical
14472.00	*						74.	00		Vertical
16884.00	*						74.	00		Vertical
4844.00	37.80	31.81	8.63	32.	.11	46.13	74.	00	-27.87	Horizontal
7266.00	33.21	36.28	11.69	31.	.94	49.24	74.	00	-24.76	Horizontal
9688.00	31.72	38.13	14.21	31.	.52	52.54	74.	00	-21.46	Horizontal
12060.00	*						74.	00		Horizontal
14472.00	*						74.	00		Horizontal
16884.00	*						74.	00		Horizontal

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	28.11	31.81	8.63	32.11	36.44	54.00	-17.56	Vertical
7266.00	22.25	36.28	11.69	31.94	38.28	54.00	-15.72	Vertical
9688.00	22.46	38.13	14.21	31.52	43.28	54.00	-10.72	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4844.00	27.41	31.81	8.63	32.11	35.74	54.00	-18.26	Horizontal
7266.00	21.81	36.28	11.69	31.94	37.84	54.00	-16.16	Horizontal
9688.00	21.49	38.13	14.21	31.52	42.31	54.00	-11.69	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal
16884.00	*					54.00		Horizontal

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



Test mode:	802.11	802.11n(HT40)			channel:	Midd	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	38.21	31.85	8.66	32.12	46.60	74.00	-27.40	Vertical	
7311.00	33.57	36.37	11.71	31.91	49.74	74.00	-24.26	Vertical	
9748.00	33.22	38.27	14.25	31.56	54.18	54.18 74.00		Vertical	
12185.00	*					74.00		Vertical	
14622.00	*					74.00		Vertical	
17059.00	*					74.00		Vertical	
4874.00	38.87	31.85	8.66	32.12	47.26	74.00	-26.74	Horizontal	
7311.00	32.30	36.37	11.71	31.91	48.47	74.00	-25.53	Horizontal	
9748.00	33.15	38.27	14.25	31.56	54.11	74.00	-19.89	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	29.16	31.85	8.66	32.12	37.55	54.00	-16.45	Vertical	
7311.00	21.91	36.37	11.71	31.91	38.08	54.00	-15.92	Vertical	
9748.00	22.49	38.27	14.25	31.56	43.45	54.00	-10.55	Vertical	
12185.00	*					54.00		Vertical	
14622.00	*					54.00		Vertical	
17059.00	*					54.00		Vertical	
4874.00	29.04	31.85	8.66	32.12	37.43	54.00	-16.57	Horizontal	
7311.00	21.41	36.37	11.71	31.91	37.58	54.00	-16.42	Horizontal	
9748.00	22.88	38.27	14.25	31.56	43.84	54.00	-10.16	Horizontal	
12185.00	*					54.00		Horizontal	
14622.00	*					54.00		Horizontal	
17059.00	*					54.00		Horizontal	

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



Test mode:	802.11	In(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	42.92	31.88	8.68	32.13	51.35	74.00	-22.65	Vertical
7356.00	33.73	36.45	11.75	31.86	50.07	74.00	-23.93	Vertical
9808.00	36.14	38.43	14.29	31.68	57.18	74.00	-16.82	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4904.00	42.53	31.88	8.68	32.13	50.96	74.00	-23.04	Horizontal
7356.00	32.78	36.45	11.75	31.86	49.12	74.00	-24.88	Horizontal
9808.00	32.38	38.43	14.29	31.68	53.42	74.00	-20.58	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
4904.00	33.99	31.88	8.68	32.13	42.42	54.00	-11.58	Vertical
7356.00	23.68	36.45	11.75	31.86	40.02	54.00	-13.98	Vertical
9808.00	24.68	38.43	14.29	31.68	45.72	54.00	-8.28	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4904.00	33.00	31.88	8.68	32.13	41.43	54.00	-12.57	Horizontal
7356.00	22.20	36.45	11.75	31.86	38.54	54.00	-15.46	Horizontal
9808.00	21.67	38.43	14.29	31.68	42.71	54.00	-11.29	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					54.00		Horizontal

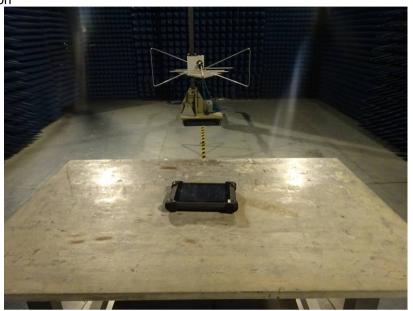
¹ Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

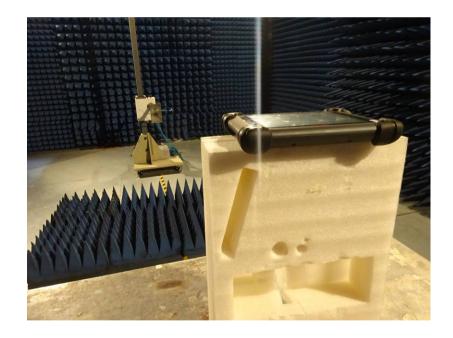
^{2 &}quot;*", means this data is the too weak instrument of signal is unable to test.



8 Test Setup Photo

Radiated Emission







Conducted Emission



9 EUT Constructional Details

Reference to the test report No. GTS201612000141F01

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