

Global United Technology Services Co., Ltd.

Report No.: GTS201911000103F02

TEST REPORT

Applicant: Shenzhen HAWK-EYE Aerial Photography Tech Company

Limited

Address of Applicant: 202 Zhongzheng Fortune Building Baoan Avenue Nr. 6093

Fuyong Baoan, Shenzhen, China

Manufacturer: Shenzhen HAWK-EYE Aerial Photography Tech Company

Limited

Address of 202 Zhongzheng Fortune Building Baoan Avenue Nr. 6093

Manufacturer: Fuyong Baoan, Shenzhen, China

Factory: Shenzhen Xinsifang Electronic Company limited.

Address of Factory: 6 Floor, B Building, Songyuan Chuangxin keji Town, Zhangge

community, Guannan Street, Baoan district, Shenzhen,

China.

Equipment Under Test (EUT)

Product Name: Atction Camera 4K/60Fps

Model No.: FIREFLY X, FIREFLY XS, FIREFLY X PLUS,

FIREFLY X Pro, FIREFLY 9, FIREFLY 9S, FIREFLY 11,

FIREFLY11S, FIREFLY11 PLUS, FIREFLY11 Fro

FCC ID: 2AGM3-FIREFLYX

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

Date of sample receipt: November 18, 2019

Date of Test: November 18-20, 2019

Date of report issued: November 21, 2019

Test Result: PASS *

Authorized Signature:

Robinson Lo **Laboratory Manager**

This results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver. Page 1 of 45

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



2 Version

Version No.	Date	Description
00	November 21, 2019	Original

Prepared By:	Spantly	Date:	November 21, 2019
	Project Engineer	<u> </u>	
Check By:	Reviewer	Date:	November 21, 2019



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4 Test Summary

Test Item	Section	Result
Antenna requirement	FCC part 15.203/15.247 (c)	Pass
AC Power Line Conducted Emission	FCC part 15.207	N/A
Conducted Peak Output Power	FCC part 15.247 (b)(3)	Pass
Channel Bandwidth & 99% OCB	FCC part 15.247 (a)(2)	Pass
Power Spectral Density	FCC part 15.247 (e)	Pass
Band Edge	FCC part 15.247(d)	Pass
Spurious Emission	FCC part 15.205/15.209	Pass

Remark: Test according to ANSI C63.10:2013.

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

4.1 Measurement Uncertainty

Test Item	Frequency Range	Measurement Uncertainty	Notes
Radiated Emission	30MHz-200MHz	3.8039dB	(1)
Radiated Emission	200MHz-1GHz	3.9679dB	(1)
Radiated Emission	1GHz-18GHz	4.29dB	(1)
Radiated Emission	18GHz-40GHz	3.30dB	(1)
AC Power Line Conducted Emission	0.15MHz ~ 30MHz	3.44dB	(1)
Note (1): The measurement unce	ertainty is for coverage factor of k	=2 and a level of confidence of 9	95%.



5 General Information

5.1 General Description of EUT

•	
Product Name:	Atction Camera 4K/60Fps
Model No.:	FIREFLY X, FIREFLY XS, FIREFLY X PLUS, FIREFLY X Pro,
	FIREFLY 9, FIREFLY 9S, FIREFLY 11, FIREFLY11S,
	FIREFLY11 PLUS, FIREFLY11 Fro
Test Model No:	FIREFLY X
Remark: All above models are The differences are color and	identical in the same PCB layout, interior structure and electrical circuits. model name for commercial purpose.
Serial No.:	HE191100000F
Test sample(s) ID:	GTS201911000103-1
Sample(s) Status:	Engineer sample
Operation Frequency:	2412MHz~2462MHz(802.11b/g/n(HT20))
	2422MHz~2452MHz(802.11n(HT40))
Channel Numbers:	802.11b/802.11g /802.11n(HT20): 11
	802.11n(HT40):7
Channel Separation:	5MHz
Modulation Technology:	802.11b: Direct Sequence Spread Spectrum (DSSS)
	802.11g/802.11n(HT20):
	Orthogonal Frequency Division Multiplexing (OFDM)
Antenna Type:	Integral Antenna
Antenna Gain:	2dBi(declare by applicant)
Power Supply:	Rechargeable Li-ion Battery: DC3.85V 1200mAh 4.62Wh
Test Voltage:	DC3.85V
-	<u> </u>



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

Note:

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

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



5.2 Test mode

Transmitting mode Keep the EUT in continuously transmitting mode

Remark: During the test, the dutycycle >98%, the test voltage was tuned from 85% to 115% of the nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. So the report just shows that condition's data.

We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:

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

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

5.3 Description of Support Units

None.

5.4 Deviation from Standards

None.

5.5 Abnormalities from Standard Conditions

None

5.6 Test Facility

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

• FCC —Registration No.: 381383

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

• IC —Registration No.: 9079A

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

• NVLAP (LAB CODE:600179-0)

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

5.7 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

Address: No. 123-128, Tower A, Jinyuan Business Building, No.2, Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102

Tel: 0755-27798480 Fax: 0755-27798960

5.8 Additional instructions

Test Software	Special test command provided by manufacturer
Power level setup	Default

Global United Technology Services Co., Ltd.

No. 123-128, Tower A, Jinyuan Business Building, No.2, Laodong Industrial Zone,

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



6 Test Instruments list

Radi	Radiated Emission:							
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)		
1	3m Semi- Anechoic Chamber	ZhongYu Electron	9.2(L)*6.2(W)* 6.4(H)	GTS250	July. 03 2015	July. 02 2020		
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A		
3	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	June. 26 2019	June. 25 2020		
4	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	June. 26 2019	June. 25 2020		
5	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120 D	GTS208	June. 26 2019	June. 25 2020		
6	Horn Antenna	ETS-LINDGREN	3160	GTS217	June. 26 2019	June. 25 2020		
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A		
8	Coaxial Cable	GTS	N/A	GTS213	June. 26 2019	June. 25 2020		
9	Coaxial Cable	GTS	N/A	GTS211	June. 26 2019	June. 25 2020		
10	Coaxial cable	GTS	N/A	GTS210	June. 26 2019	June. 25 2020		
11	Coaxial Cable	GTS	N/A	GTS212	June. 26 2019	June. 25 2020		
12	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	June. 26 2019	June. 25 2020		
13	Amplifier(2GHz-20GHz)	HP	84722A	GTS206	June. 26 2019	June. 25 2020		
14	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June. 26 2019	June. 25 2020		
15	Band filter	Amindeon	82346	GTS219	June. 26 2019	June. 25 2020		
16	Power Meter	Anritsu	ML2495A	GTS540	June. 26 2019	June. 25 2020		
17	Power Sensor	Anritsu	MA2411B	GTS541	June. 26 2019	June. 25 2020		
18	Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	GTS575	June. 26 2019	June. 25 2020		
19	Splitter	Agilent	11636B	GTS237	June. 26 2019	June. 25 2020		
20	Loop Antenna	ZHINAN	ZN30900A	GTS534	June. 26 2019	June. 25 2020		
21	Breitband hornantenne	SCHWARZBECK	BBHA 9170	GTS579	Oct. 19 2019	Oct. 18 2020		
22	Amplifier	TDK	PA-02-02	GTS574	Oct. 19 2019	Oct. 18 2020		
23	Amplifier	TDK	PA-02-03	GTS576	Oct. 19 2019	Oct. 18 2020		
24	PSA Series Spectrum Analyzer	Rohde & Schwarz	FSP	GTS578	June. 26 2019	June. 25 2020		



RF C	RF Conducted Test:							
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)		
1	MXA Signal Analyzer	Agilent	N9020A	GTS566	June. 26 2019	June. 25 2020		
2	EMI Test Receiver	R&S	ESCI 7	GTS552	June. 26 2019	June. 25 2020		
3	Spectrum Analyzer	Agilent	E4440A	GTS533	June. 26 2019	June. 25 2020		
4	MXG vector Signal Generator	Agilent	N5182A	GTS567	June. 26 2019	June. 25 2020		
5	ESG Analog Signal Generator	Agilent	E4428C	GTS568	June. 26 2019	June. 25 2020		
6	USB RF Power Sensor	DARE	RPR3006W	GTS569	June. 26 2019	June. 25 2020		
7	RF Switch Box	Shongyi	RFSW3003328	GTS571	June. 26 2019	June. 25 2020		
8	EMI Test Receiver	R&S	ESCI 7	GTS552	June. 26 2019	June. 25 2020		
9	Programmable Constant Temp & Humi Test Chamber	WEWON	WHTH-150L-40-880	GTS572	June. 26 2019	June. 25 2020		

Ge	General used equipment:										
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)					
1	Humidity/ Temperature Indicator	KTJ	TA328	GTS243	June. 26 2019	June. 25 2020					
2	Barometer	ChangChun	DYM3	GTS255	June. 26 2019	June. 25 2020					



7 Test results and Measurement Data

7.1 Antenna requirement

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

15.203 requirement:

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

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

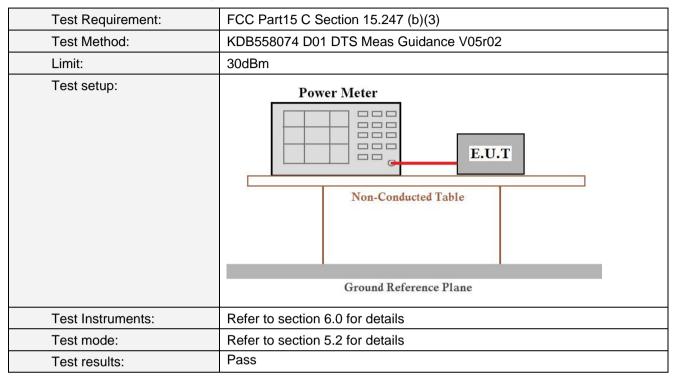
(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional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

EUT Antenna:

The antenna is integral antenna, the best case gain of the antenna is 2dBi, reference to the appendix II for details



7.2 Conducted Peak Output Power



Measurement Data

Test CH		Peak Outp	Limit(dBm)	Result		
1631 011	802.11b 802.11g 802.11n(HT20) 802.11n(HT40)		Limit(abin)	Nesuit		
Lowest	7.56	7.43	6.57	6.16		
Middle	7.57	7.22	6.63	6.19	30.00	Pass
Highest	7.59	7.32	6.64	6.63		



7.3 Channel Bandwidth

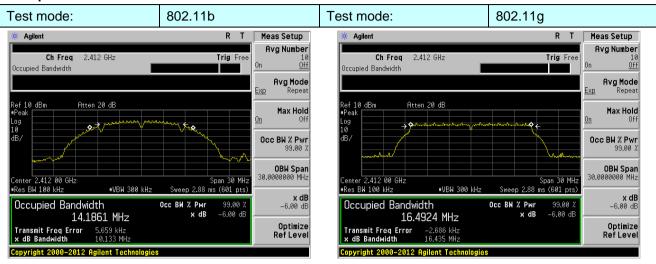
Test Requirement:	FCC Part15 C Section 15.247 (a)(2)
Test Method:	KDB558074 D01 DTS Meas Guidance V05r02
Limit:	>500KHz
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results: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

Measurement Data

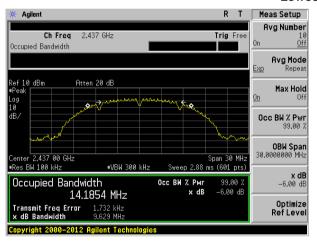
Test CH		Channel E	Limit(KHz)	Result			
Test Cn	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	Liiiii((Ki iZ)	rvesuit	
Lowest	10.133	16.435	17.630	36.069			
Middle	9.629	16.415	17.633	36.183	>500	Pass	
Highest	9.635	16.415	17.622	36.200			

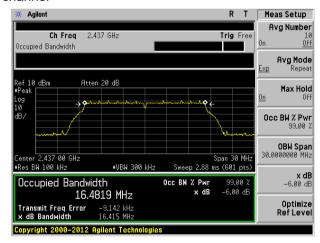


Test plot as follows:

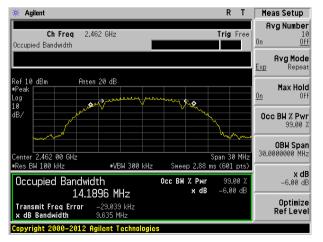


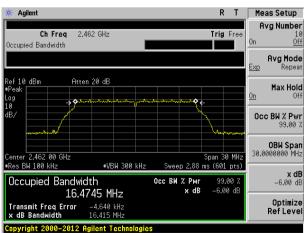
Lowest channel





Middle channel

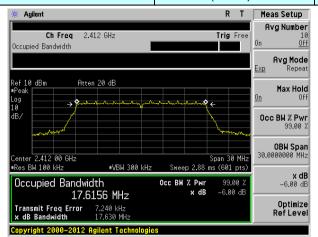


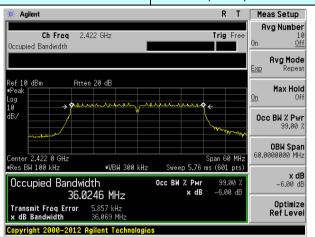


Highest channel

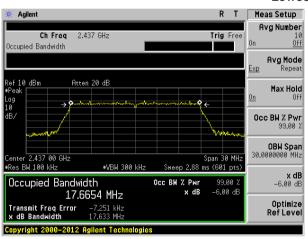


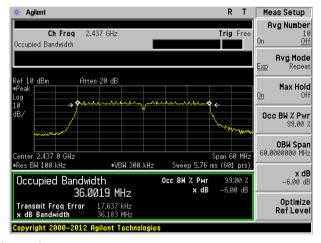
Test mode: 802.11n(HT20) Test mode: 802.11n(HT40)



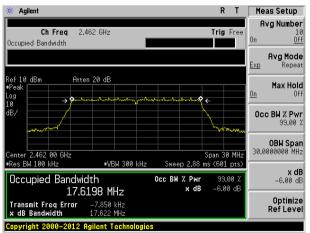


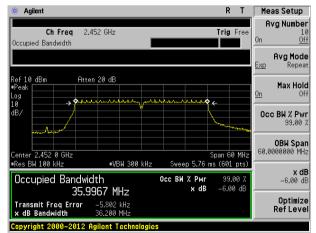
Lowest channel





Middle channel





Highest channel



7.4 Power Spectral Density

Test Requirement:	FCC Part15 C Section 15.247 (e)
Test Method:	KDB558074 D01 DTS Meas Guidance V05r02
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 Spectra	Limit	Result		
Test CIT	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	(dBm/3kHz)	Nesuit
Lowest	-19.87	-21.98	-24.36	-26.82		
Middle	-19.57	-23.70	-22.65	-27.89	8.00	Pass
Highest	-18.75	-23.17	-24.14	-27.16		

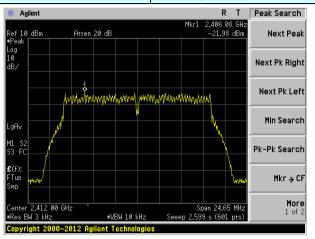


Test plot as follows:

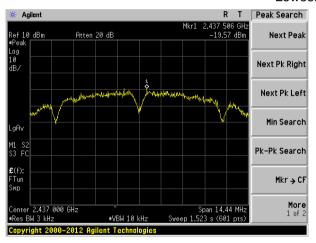
Report No.: GTS201911000103F02

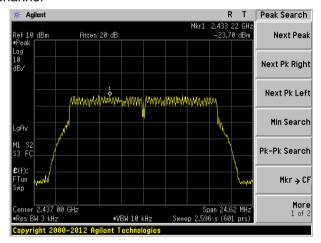
Test mode: 802.11b Test mode: 802.11g



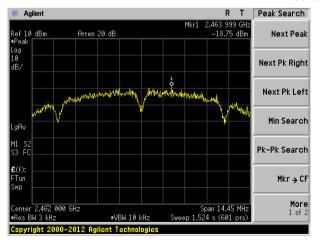


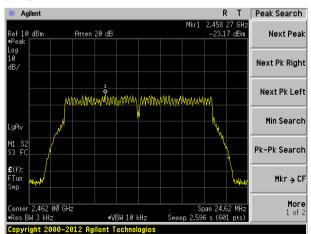
Lowest channel





Middle channel

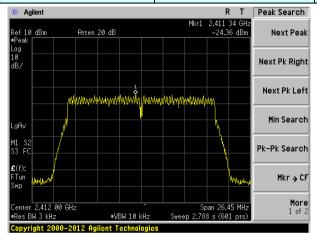


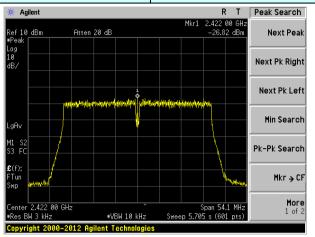


Highest channel

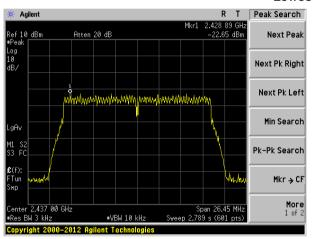


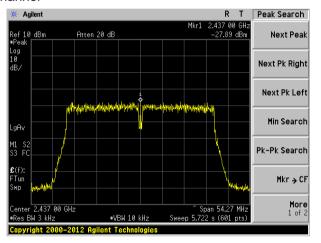
Test mode: 802.11n(HT20) Test mode: 802.11n(HT40)



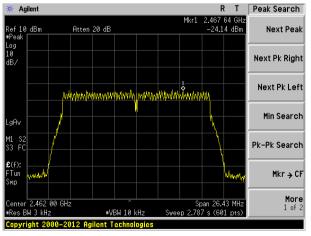


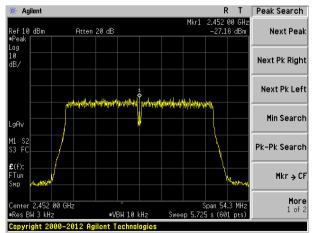
Lowest channel





Middle channel





Highest channel



7.5 Band edges

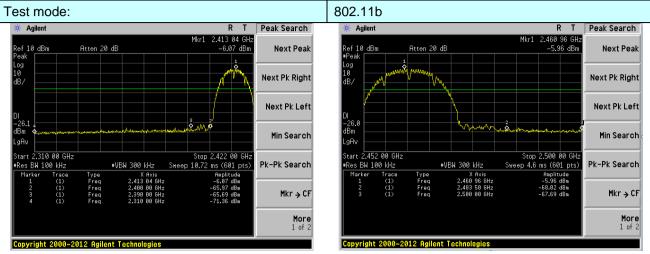
7.5.1 Conducted Emission Method

Test Requirement:	FCC Part15 C Section 15.247 (d)					
Test Method:	KDB558074 D01 DTS Meas Guidance V05r02					
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.					
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane					
Test Instruments:	Refer to section 6.0 for details					
Test mode:	Refer to section 5.2 for details					
Test results:	Pass					



Test plot as follows:

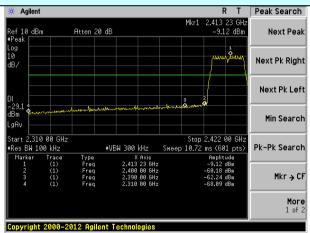
Report No.: GTS201911000103F02



Lowest channel

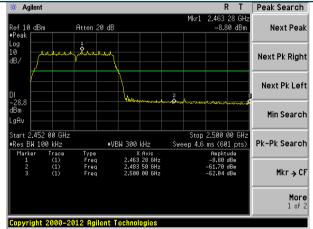
Highest channel

Test mode:



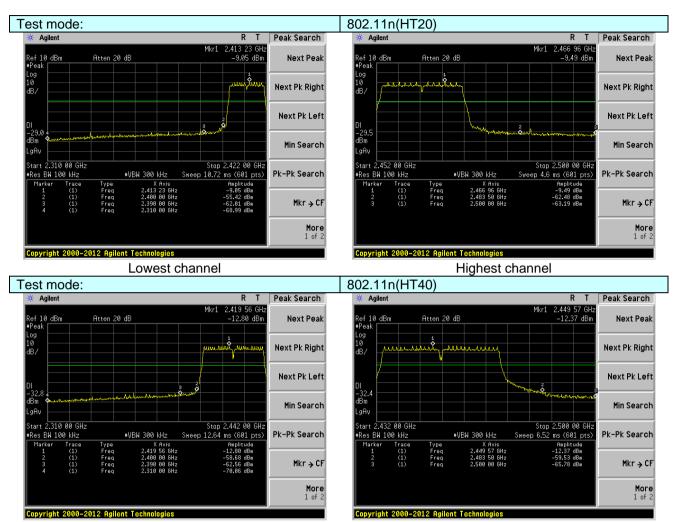
Lowest channel

802.11g



Highest channel







7.5.2 Radiated Emission Method

Test Requirement:	FCC Part15 C S	Section 15.209	and 15.205					
Test Method:	ANSI C63.10:2013							
Test Frequency Range:	All of the restrict 2500MHz) data		tested, only	the worst ba	and's (2310MHz to			
Test site:	Measurement Distance: 3m							
Receiver setup:	Frequency	Detector	RBW	VBW	Value			
•		Peak	1MHz	3MHz	Peak			
	Above 1GHz	Average	1MHz	3MHz	Average			
Limit:	Freque		Limit (dBuV/		Value			
		,	54.0		Average			
	Above 1	GHZ	74.0	0	Peak			
	Turn Table	EUI+	Test Antenna	1				
Test Procedure:		The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to						
	2. The EUT was antenna, whi tower. 3. The antenna ground to de horizontal an measuremen 4. For each sus and then the and the rotathe maximum 5. The test-recesspecified Ba 6. If the emission the limit specified ba the rotathe limit specified ba the limit specified based by the limit specified ba th	height is varietermine the moderate vertical polant. Spected emission antenna was table was turn reading. Seiver system windwidth with fon level of the cified, then test yould be reportangen would be age method an measuremer	s away from the ted on the top ed from one neaximum value arizations of the tion, the EUT tuned to height as set to Peawas set to Peawas set to Peawas mum Hole EUT in peak ting could be ted. Otherwis be re-tested on a specified are tested on the tested of the tested o	ne interference of a variable neter to four e of the field ne antenna a was arrange hts from 1 mgrees to 360 ak Detect Fud Mode. mode was 1 stopped and e the emissine by one used then reported in X, Y, it is worse care	re-height antenna meters above the strength. Both are set to make the ed to its worst case neter to 4 meters degrees to find			
Test Instruments:	Refer to section							
Test mode:	Refer to section	5.2 for details	5					
Test results:	Pass							



						Report No.	: GTS20191	1000103F02
Measurem	ent data:					·		
Test mode: 802.11b			Test channel:			_owest		
Peak value	:							
Frequency	Read	Antenna	Cable	Preamp	Level	Limit Line	Over	

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2310.00	39.76	27.14	6.19	42.04	31.05	74.00	-42.95	Horizontal
2390.00	48.14	27.37	6.31	42.11	39.71	74.00	-34.29	Horizontal
2310.00	38.31	27.14	6.19	42.04	29.60	74.00	-44.40	Vertical
2390.00	49.43	27.37	6.31	42.11	41.00	74.00	-33.00	Vertical

Average value:

Avelage va								
Frequency	Read	Antenna	Cable	Preamp	Level	Limit Line	Over	
(MHz)	Level	Factor	Loss	Factor	(dBuV/m)		Limit	Polarization
(IVITZ)	(dBuV)	(dB/m)	(dB)	(dB)	(ubuv/III)	(dBuV/m)	(dB)	
2310.00	30.07	27.14	6.19	42.04	21.36	54.00	-32.64	Horizontal
2390.00	37.15	27.37	6.31	42.11	28.72	54.00	-25.28	Horizontal
2310.00	28.73	27.14	6.19	42.04	20.02	54.00	-33.98	Vertical
2390.00	39.14	27.37	6.31	42.11	30.71	54.00	-23.29	Vertical

Test mode: 802.11b			Test channel: High				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	48.61	27.66	6.45	42.01	40.71	74.00	-33.29	Horizontal
2500.00	41.04	27.70	6.47	42.00	33.21	74.00	-40.79	Horizontal
2483.50	48.48	27.66	6.45	42.01	40.58	74.00	-33.42	Vertical
2500.00	42.22	27.70	6.47	42.00	34.39	74.00	-39.61	Vertical
Average va	lue:							

Average va	ilue:							
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	37.14	27.66	6.45	42.01	29.24	54.00	-24.76	Horizontal
2500.00	33.61	27.70	6.47	42.00	25.78	54.00	-28.22	Horizontal
2483.50	37.92	27.66	6.45	42.01	30.02	54.00	-23.98	Vertical
2500.00	32.41	27.70	6.47	42.00	24.58	54.00	-29.42	Vertical

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



Test mode:		802.11g 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
2310.00	39.40	27.14	6.19	42.04	30.69	74.00	-43.31	Horizontal
2390.00	47.66	27.37	6.31	42.11	39.23	74.00	-34.77	Horizontal
2310.00	37.93	27.14	6.19	42.04	29.22	74.00	-44.78	Vertical
2390.00	48.85	27.37	6.31	42.11	40.42	74.00	-33.58	Vertical
Average va	lue:			_				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2310.00	29.81	27.14	6.19	42.04	21.10	54.00	-32.90	Horizontal
2390.00	36.86	27.37	6.31	42.11	28.43	54.00	-25.57	Horizontal
2310.00	28.45	27.14	6.19	42.04	19.74	54.00	-34.26	Vertical
2390.00	38.82	27.37	6.31	42.11	30.39	54.00	-23.61	Vertical
		.						
Test mode:		802.11g		Tes	t channel:		Highest	
Peak value	:			T	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
2483.50	48.10	27.66	6.45	40.04				
2500.00		27.100	0.43	42.01	40.20	74.00	-33.80	Horizontal
	40.64	27.70	6.47	42.01	40.20 32.81	74.00 74.00	-33.80 -41.19	Horizontal Horizontal
2483.50	40.64 47.90							
2483.50 2500.00		27.70	6.47	42.00	32.81	74.00	-41.19	Horizontal
	47.90 41.76	27.70 27.66	6.47 6.45	42.00 42.01	32.81 40.00	74.00 74.00	-41.19 -34.00	Horizontal Vertical
2500.00	47.90 41.76	27.70 27.66	6.47 6.45	42.00 42.01	32.81 40.00	74.00 74.00	-41.19 -34.00	Horizontal Vertical
2500.00 Average value Frequency	47.90 41.76 Ilue: Read Level	27.70 27.66 27.70 Antenna Factor	6.47 6.45 6.47 Cable Loss	42.00 42.01 42.00 Preamp Factor	32.81 40.00 33.93 Level	74.00 74.00 74.00 Limit Line	-41.19 -34.00 -40.07 Over Limit	Horizontal Vertical Vertical
2500.00 Average va Frequency (MHz)	47.90 41.76 Ilue: Read Level (dBuV)	27.70 27.66 27.70 Antenna Factor (dB/m)	6.47 6.45 6.47 Cable Loss (dB)	42.00 42.01 42.00 Preamp Factor (dB)	32.81 40.00 33.93 Level (dBuV/m)	74.00 74.00 74.00 Limit Line (dBuV/m)	-41.19 -34.00 -40.07 Over Limit (dB)	Horizontal Vertical Vertical Polarization
2500.00 Average value Frequency (MHz) 2483.50	47.90 41.76 Ilue: Read Level (dBuV) 36.84	27.70 27.66 27.70 Antenna Factor (dB/m) 27.66	6.47 6.45 6.47 Cable Loss (dB) 6.45	42.00 42.01 42.00 Preamp Factor (dB) 42.01	32.81 40.00 33.93 Level (dBuV/m) 28.94	74.00 74.00 74.00 Limit Line (dBuV/m) 54.00	-41.19 -34.00 -40.07 Over Limit (dB) -25.06	Horizontal Vertical Vertical Polarization Horizontal

Notes:

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



Test mode:		802.11n((HT20)	Tes	t channel:		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	
2310.00	39.48	27.14	6.19	42.04	30.77	74.00	-43.23	Horizontal	
2390.00	47.76	27.37	6.31	42.11	39.33	74.00	-34.67	Horizontal	
2310.00	38.01	27.14	6.19	42.04	29.30	74.00	-44.70	Vertical	
2390.00	48.97	27.37	6.31	42.11	40.54	74.00	-33.46	Vertical	
Average va	lue:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	
2310.00	29.86	27.14	6.19	42.04	21.15	54.00	-32.85	Horizontal	
2390.00	36.92	27.37	6.31	42.11	28.49	54.00	-25.51	Horizontal	
2310.00	28.51	27.14	6.19	42.04	19.80	54.00	-34.20	Vertical	
2390.00	38.88	27.37	6.31	42.11	30.45	54.00	-23.55	Vertical	
		•							
Test mode:		802.11n((HT20)	Tes	t channel:		Highest		
Test mode: Peak value:		802.11n(,		t channel:		Highest		
	Read Level (dBuV)	802.11n(Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	
Peak value: Frequency	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Polarization Horizontal	
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)		
Frequency (MHz) 2483.50	Read Level (dBuV) 48.20	Antenna Factor (dB/m) 27.66	Cable Loss (dB) 6.45	Preamp Factor (dB) 42.01	Level (dBuV/m) 40.30	Limit Line (dBuV/m) 74.00	Over Limit (dB)	Horizontal	
Frequency (MHz) 2483.50 2500.00	Read Level (dBuV) 48.20 40.72	Antenna Factor (dB/m) 27.66 27.70	Cable Loss (dB) 6.45 6.47	Preamp Factor (dB) 42.01 42.00	Level (dBuV/m) 40.30 32.89	Limit Line (dBuV/m) 74.00 74.00	Over Limit (dB) -33.70 -41.11	Horizontal Horizontal	
Frequency (MHz) 2483.50 2500.00 2483.50	Read Level (dBuV) 48.20 40.72 48.02 41.86	Antenna Factor (dB/m) 27.66 27.70 27.66	Cable Loss (dB) 6.45 6.47 6.45	Preamp Factor (dB) 42.01 42.00 42.01	Level (dBuV/m) 40.30 32.89 40.12	Limit Line (dBuV/m) 74.00 74.00 74.00	Over Limit (dB) -33.70 -41.11 -33.88	Horizontal Horizontal Vertical	
Frequency (MHz) 2483.50 2500.00 2483.50 2500.00	Read Level (dBuV) 48.20 40.72 48.02 41.86	Antenna Factor (dB/m) 27.66 27.70 27.66	Cable Loss (dB) 6.45 6.47 6.45	Preamp Factor (dB) 42.01 42.00 42.01	Level (dBuV/m) 40.30 32.89 40.12	Limit Line (dBuV/m) 74.00 74.00 74.00 74.00 Limit Line	Over Limit (dB) -33.70 -41.11 -33.88	Horizontal Horizontal Vertical	
Frequency (MHz) 2483.50 2500.00 2483.50 2500.00 Average va	Read Level (dBuV) 48.20 40.72 48.02 41.86 Iue: Read Level	Antenna Factor (dB/m) 27.66 27.70 27.66 27.70 Antenna Factor	Cable Loss (dB) 6.45 6.47 6.45 6.47 Cable Loss	Preamp Factor (dB) 42.01 42.00 42.01 42.00 Preamp Factor	Level (dBuV/m) 40.30 32.89 40.12 34.03	Limit Line (dBuV/m) 74.00 74.00 74.00 74.00 Limit Line	Over Limit (dB) -33.70 -41.11 -33.88 -39.97 Over Limit	Horizontal Horizontal Vertical Vertical	
Frequency (MHz) 2483.50 2500.00 2483.50 2500.00 Average va Frequency (MHz)	Read Level (dBuV) 48.20 40.72 48.02 41.86 Iue: Read Level (dBuV)	Antenna Factor (dB/m) 27.66 27.70 27.66 27.70 Antenna Factor (dB/m)	Cable Loss (dB) 6.45 6.47 6.45 6.47 Cable Loss (dB)	Preamp Factor (dB) 42.01 42.00 42.01 42.00 Preamp Factor (dB)	Level (dBuV/m) 40.30 32.89 40.12 34.03 Level (dBuV/m)	Limit Line (dBuV/m) 74.00 74.00 74.00 74.00 Limit Line (dBuV/m)	Over Limit (dB) -33.70 -41.11 -33.88 -39.97 Over Limit (dB)	Horizontal Horizontal Vertical Vertical Polarization	
Frequency (MHz) 2483.50 2500.00 2483.50 2500.00 Average va Frequency (MHz) 2483.50	Read Level (dBuV) 48.20 40.72 48.02 41.86 Iue: Read Level (dBuV) 36.90	Antenna Factor (dB/m) 27.66 27.70 27.66 27.70 Antenna Factor (dB/m) 27.66	Cable Loss (dB) 6.45 6.47 6.45 6.47 Cable Loss (dB) 6.45	Preamp Factor (dB) 42.01 42.00 42.01 42.00 Preamp Factor (dB) 42.01	Level (dBuV/m) 40.30 32.89 40.12 34.03 Level (dBuV/m)	Limit Line (dBuV/m) 74.00 74.00 74.00 74.00 Limit Line (dBuV/m) 54.00	Over Limit (dB) -33.70 -41.11 -33.88 -39.97 Over Limit (dB) -25.00	Horizontal Horizontal Vertical Vertical Polarization Horizontal	

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



Test mode:		802.1	1n(HT40)		Test channel:			Lowest	Lowest		
Peak value:	•										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Prean Facto (dB)	or ,	Level dBuV/m)	Limit Line (dBuV/m)	I I imit	Polarization		
2310.00	39.61	27.14	6.19	42.0	4	30.90	74.00	-43.10	Horizontal		
2390.00	47.94	27.37	6.31	42.1	1	39.51	74.00	-34.49	Horizontal		
2310.00	38.15	27.14	6.19	42.0	4	29.44	74.00	-44.56	Vertical		
2390.00	49.19	27.37	6.31	42.1	1	40.76	74.00	-33.24	Vertical		
Average va	lue:										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Prean Facto (dB)	or ₍	Level dBuV/m)	Limit Line (dBuV/m)		Polarization		
2310.00	29.96	27.14	6.19	42.0	4	21.25	54.00	-32.75	Horizontal		
2390.00	37.03	27.37	6.31	42.1	1	28.60	54.00	-25.40	Horizontal		
2310.00	28.62	27.14	6.19	42.0	4	19.91	54.00	-34.09	Vertical		
2390.00	39.00	27.37	6.31	42.1	1	30.57	54.00	-23.43	Vertical		
Test mode:		802.1	1n(HT40)		Test o	channel:		Highest			
Peak value:											
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Prean Facto (dB)	or _{(/}	Level dBuV/m)	Limit Line (dBuV/m)	I I imit	Polarization		
2483.50	48.39	27.66	6.45	42.0	1	40.49	74.00	-33.51	Horizontal		
2500.00	40.87	27.70	6.47	42.0	0	33.04	74.00	-40.96	Horizontal		
2483.50	48.24	27.66	6.45	42.0	1	40.34	74.00	-33.66	Vertical		
2500.00	42.03	27.70	6.47	42.0	0	34.20	74.00	-39.80	Vertical		
Average va	lue:										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Prean Facto (dB)	or ,	Level dBuV/m)	Limit Line (dBuV/m)	I I imit	Polarization		
2483.50	27.00	27.66	6.45	42.0	1	29.12	54.00	-24.88	Horizontal		
_ :00:00	37.02	27.00	0.40	72.0	1	20.12	000		Homzontal		
2500.00	37.02	27.70	6.47	42.0		25.68	54.00	-28.32	Horizontal		

Notes:

2500.00

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

6.47

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

42.00

24.48

54.00

32.31

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27.70

-29.52

Vertical



7.6 Spurious Emission

7.6.1 Conducted Emission Method

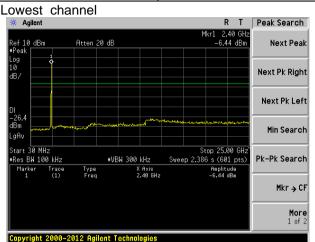
Test Requirement:	FCC Part15 C Section 15.247 (d)							
	` '							
Test Method:	KDB558074 D01 DTS Meas Guidance V05r02							
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.							
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane							
Test Instruments:	Refer to section 6.0 for details							
Test mode:	Refer to section 5.2 for details							
Test results:	Pass							

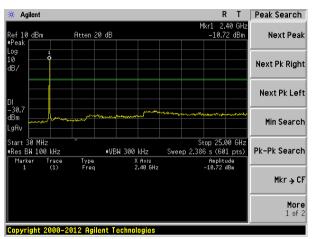


Test plot as follows:

Report No.: GTS201911000103F02

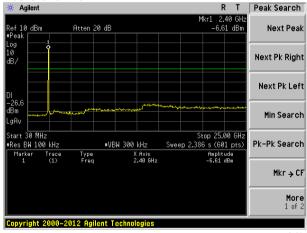
Test mode: 802.11b Test mode: 802.11g

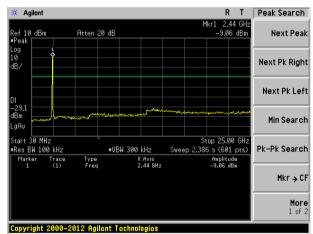




30MHz~25GHz

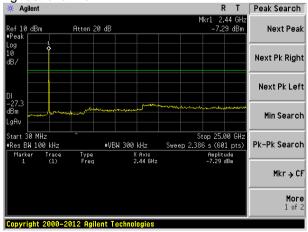
Middle channel

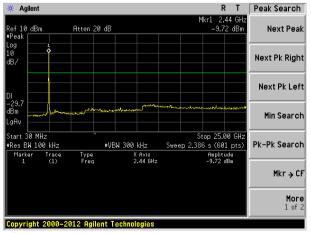




30MHz~25GHz

Highest channel

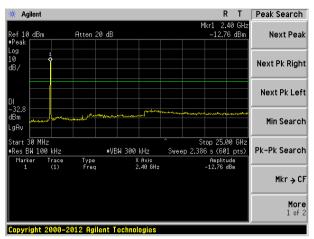




30MHz~25GHz



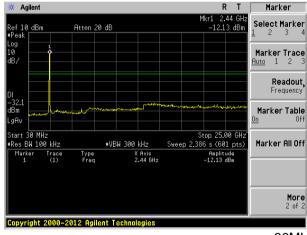
Test mode: 802.11n(HT20) Test mode: 802.11n(HT40)

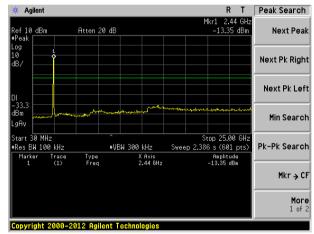


30MHz~25GHz

Middle channel

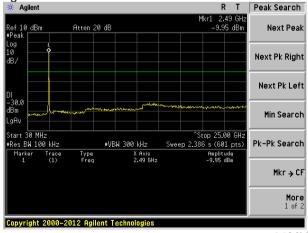
Copyright 2000-2012 Agilent Technologie

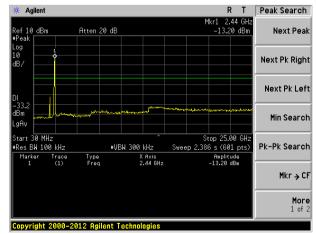




30MHz~25GHz

Highest channel





30MHz~25GHz



7.6.2 Radiated Emission Method

FCC Part15 C Section	on 15	5.209						
ANSI C63.10:2013								
9kHz to 25GHz								
Measurement Distar	nce: 3	3m						
Frequency		Detector	RB\	W	VBW	Value		
9KHz-150KHz	Qı	ıasi-peak	2001	Hz	600H	z Quasi-peak		
150KHz-30MHz Quasi-peak 9KHz 30KHz Quasi-peak								
30MHz-1GHz Quasi-peak 120KHz 300KHz Quasi-p								
Above 1GHz		Peak	1MF	Ηz	3MHz	z Peak		
Above 10112		Peak	1MF	Ηz	10Hz	z Average		
Frequency		Limit (u\	//m)	>	'alue	Measurement Distance		
0.009MHz-0.490M	lHz	2400/F(k	(Hz)		QP	300m		
0.490MHz-1.705M	lHz	24000/F(KHz)		QP	300m		
1.705MHz-30MH	lz	30			QP	30m		
30MHz-88MHz		100			QP			
88MHz-216MHz	<u> </u>	150			QP			
216MHz-960MH	Z	200			QP	3m		
960MHz-1GHz		500			QP	5		
Above 1GHz		500		Av	erage			
7.5000		5000)	F	Peak			
For radiated emiss	sions	from 9kH	z to 30	MH	Z			
Turn Table EUT			lm Î					
	ANSI C63.10:2013 9kHz to 25GHz Measurement Distar Frequency 9KHz-150KHz 150KHz-30MHz 30MHz-1GHz Above 1GHz Frequency 0.009MHz-0.490M 0.490MHz-1.705M 1.705MHz-30MH 30MHz-88MHz 88MHz-216MHz 216MHz-960MH 960MHz-1GHz Above 1GHz For radiated emiss	ANSI C63.10:2013 9kHz to 25GHz Measurement Distance: 3 Frequency 9KHz-150KHz Qu 150KHz-30MHz 30MHz-1GHz Qu Above 1GHz Frequency 0.009MHz-0.490MHz 0.490MHz-1.705MHz 1.705MHz-30MHz 30MHz-88MHz 88MHz-216MHz 216MHz-960MHz 960MHz-1GHz Above 1GHz For radiated emissions	9kHz to 25GHz Measurement Distance: 3m Frequency Detector 9KHz-150KHz Quasi-peak 150KHz-30MHz Quasi-peak 30MHz-1GHz Quasi-peak Peak Peak Peak Peak Peak Peak Peak Peak 10009MHz-0.490MHz 2400/F(k 1.705MHz-30MHz 24000/F(k 1.705MHz-30MHz 30 30MHz-88MHz 100 88MHz-216MHz 150 216MHz-960MHz 200 960MHz-1GHz 500 Above 1GHz 500 For radiated emissions from 9kH	ANSI C63.10:2013	ANSI C63.10:2013 9kHz to 25GHz Measurement Distance: 3m Frequency Detector RBW 9KHz-150KHz Quasi-peak 200Hz 150KHz-30MHz Quasi-peak 9KHz 30MHz-1GHz Peak 1MHz Above 1GHz Peak 1MHz Frequency Limit (uV/m) V 0.009MHz-0.490MHz 2400/F(KHz) 1.705MHz-30MHz 30 30MHz-88MHz 100 88MHz-216MHz 150 216MHz-960MHz 200 960MHz-1GHz 500 Above 1GHz 500 For radiated emissions from 9kHz to 30MHz For radiated emissions from 9kHz to 30MHz	ANSI C63.10:2013 9kHz to 25GHz Measurement Distance: 3m Frequency Detector RBW VBW 9KHz-150KHz Quasi-peak 200Hz 600H 150KHz-30MHz Quasi-peak 9KHz 30KH 30MHz-1GHz Quasi-peak 120KHz 300KH Above 1GHz Peak 1MHz 10Hz Frequency Limit (uV/m) Value 0.009MHz-0.490MHz 2400/F(KHz) QP 0.490MHz-1.705MHz 24000/F(KHz) QP 1.705MHz-30MHz 30 QP 30MHz-88MHz 100 QP 88MHz-216MHz 150 QP 216MHz-960MHz 200 QP 960MHz-1GHz 500 QP Above 1GHz 500 Average 500 Peak For radiated emissions from 9kHz to 30MHz		



Test Procedure:

Report No.: GTS201911000103F02 Test Antenna < 1m ... 4m EUT Turn Table Turn Table < 80cm Preamplifier. For radiated emissions above 1GHz Test Antenna+ < 1m ... 4m > EUT Tum Table -150cm Receiver+ Preamplifier-1. The EUT was placed on the top of a rotating table (0.8m for below 1G and 1.5m for above 1G) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 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

- ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.
- 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- 6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

Test Instruments: Refer to section 6.0 for details

Test mode: Refer to section 5.2 for details



		Report No.: GTS201911000103F02				
Test environment:	Temp.:	25 °C	Humid.:	52%	Press.:	1012mbar
Test results:	Pass					

Remark:

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

Measurement data:

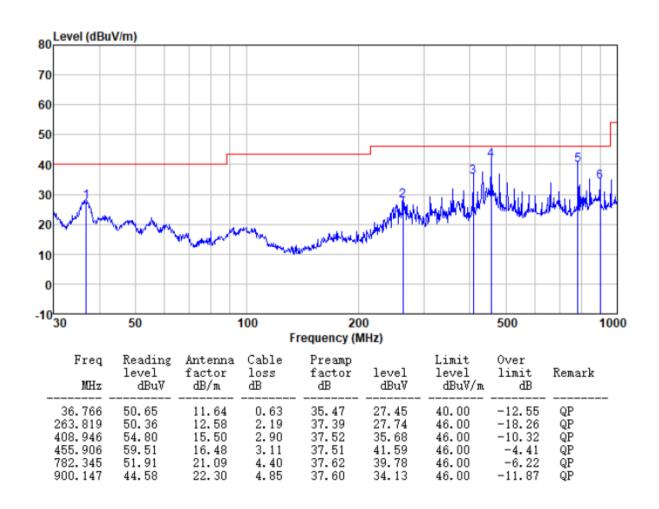
■ 9kHz~30MHz

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

■ Below 1GHz

Horizontal:

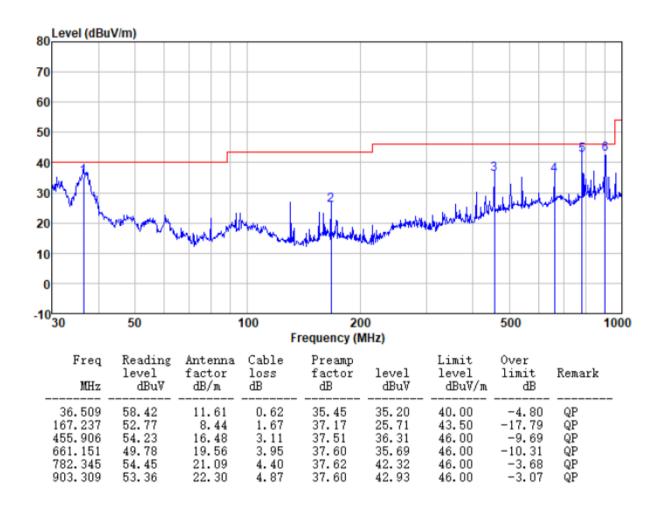
Pre-scan all test modes, found worst case at 802.11b 2462MHz, and so only show the test result of 802.11b 2462MHz





Vertical:

Report No.: GTS201911000103F02



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■ Above 1GHz

Test mode:		802.11b		Test	channel:	Lowe	est	
Peak value:		1				•		
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	39.47	31.79	8.62	32.10	47.78	74.00	-26.22	Vertical
7236.00	33.70	36.19	11.68	31.97	49.60	74.00	-24.40	Vertical
9648.00	32.34	38.07	14.16	31.56	53.01	74.00	-20.99	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	38.27	31.79	8.62	32.10	46.58	74.00	-27.42	Horizontal
7236.00	33.51	36.19	11.68	31.97	49.41	74.00	-24.59	Horizontal
9648.00	31.95	38.07	14.16	31.56	52.62	74.00	-21.38	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	28.62	31.79	8.62	32.10	36.93	54.00	-17.07	Vertical
7236.00	22.58	36.19	11.68	31.97	38.48	54.00	-15.52	Vertical
9648.00	22.70	38.07	14.16	31.56	43.37	54.00	-10.63	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	27.85	31.79	8.62	32.10	36.16	54.00	-17.84	Horizontal
7236.00	22.11	36.19	11.68	31.97	38.01	54.00	-15.99	Horizontal
9648.00	21.71	38.07	14.16	31.56	42.38	54.00	-11.62	Horizontal

Notes:

12060.00

14472.00

16884.00

- 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.

Horizontal

Horizontal

Horizontal

54.00

54.00

54.00



Test mode:		802.11b			Test channel: Middle			le		
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
4874.00	38.67	31.85	8.66	32	12	47.06	74.	00	-26.94	Vertical
7311.00	33.86	36.37	11.71	31	91	50.03	74.	00	-23.97	Vertical
9748.00	33.42	38.27	14.25	31	56	54.38	74.	00	-19.62	Vertical
12185.00	*						74.	00		Vertical
14622.00	*						74.	00		Vertical
17059.00	*						74.	00		Vertical
4874.00	39.25	31.85	8.66	32	12	47.64	74.	00	-26.36	Horizontal
7311.00	32.55	36.37	11.71	31	91	48.72	74.	00	-25.28	Horizontal
9748.00	33.34	38.27	14.25	31	56	54.30	74.	00	-19.70	Horizontal
12185.00	*						74.	00		Horizontal
14622.00	*						74.	00		Horizontal
17059.00	*						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
4874.00	29.57	31.85	8.66	32.12	37.96	54.00	-16.04	Vertical
7311.00	22.19	36.37	11.71	31.91	38.36	54.00	-15.64	Vertical
9748.00	22.69	38.27	14.25	31.56	43.65	54.00	-10.35	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	29.40	31.85	8.66	32.12	37.79	54.00	-16.21	Horizontal
7311.00	21.65	36.37	11.71	31.91	37.82	54.00	-16.18	Horizontal
9748.00	23.06	38.27	14.25	31.56	44.02	54.00	-9.98	Horizontal
12185.00	*					54.00		Horizontal
14622.00	*					54.00		Horizontal
17059.00	*					54.00		Horizontal

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



Test mode:		802.11b			Test	channel:		Highe	est	
Peak value:										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Fa	amp ctor IB)	Level (dBuV/m)	Limit (dBu)		Over Limit (dB)	polarization
4924.00	43.71	31.90	8.70	32	.15	52.16	74.	00	-21.84	Vertical
7386.00	34.22	36.49	11.76	31	.83	50.64	74.	00	-23.36	Vertical
9848.00	36.50	38.62	14.31	31	.77	57.66	74.	00	-16.34	Vertical
12310.00	*						74.	00		Vertical
14772.00	*						74.	00		Vertical
17234.00	*						74.	00		Vertical
4924.00	43.19	31.90	8.70	32	.15	51.64	74.	00	-22.36	Horizontal
7386.00	33.22	36.49	11.76	31	.83	49.64	74.	00	-24.36	Horizontal
9848.00	32.71	38.62	14.31	31	.77	53.87	74.	00	-20.13	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)	Fa	amp ctor IB)	Level (dBuV/m)	Limit (dBu		Over Limit (dB)	polarization
4924.00	34.71	31.90	8.70	32	.15	43.16	54.	00	-10.84	Vertical
7386.00	24.16	36.49	11.76	31	.83	40.58	54.	00	-13.42	Vertical
9848.00	25.02	38.62	14.31	31	.77	46.18	54.	00	-7.82	Vertical
12310.00	*						54.	00		Vertical
14772.00	*						54.	00		Vertical
17234.00	*						54.	00		Vertical
4924.00	33.62	31.90	8.70	32	.15	42.07	54.	00	-11.93	Horizontal
7386.00	22.63	36.49	11.76	31	.83	39.05	54.	00	-14.95	Horizontal
9848.00	21.99	38.62	14.31	31	.77	43.15	54.	00	-10.85	Horizontal
12310.00	*						54.	00		Horizontal
14772.00	*						54.	00		Horizontal
17234.00	*						54.	00		Horizontal

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



Test mode:		802.11g			Test channel: lower			lowes	st	
Peak value:										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Fa	amp ctor dB)	Level (dBuV/m)	Limit (dBu)		Over Limit (dB)	polarization
4824.00	39.32	31.79	8.62	32	2.10	47.63	74.00		-26.37	Vertical
7236.00	33.60	36.19	11.68	31	.97	49.50	74.	00	-24.50	Vertical
9648.00	32.27	38.07	14.16	31	.56	52.94	74.	00	-21.06	Vertical
12060.00	*						74.	00		Vertical
14472.00	*						74.	00		Vertical
16884.00	*						74.	00		Vertical
4824.00	38.14	31.79	8.62	32	2.10	46.45	74.	00	-27.55	Horizontal
7236.00	33.43	36.19	11.68	31	.97	49.33	74.	00	-24.67	Horizontal
9648.00	31.88	38.07	14.16	31	.56	52.55	74.	00	-21.45	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)	Fa	amp ctor (B)	Level (dBuV/m)	Limit (dBu)		Over Limit (dB)	polarization
4824.00	28.48	31.79	8.62	32	2.10	36.79	54.	00	-17.21	Vertical
7236.00	22.49	36.19	11.68	31	.97	38.39	54.	00	-15.61	Vertical
9648.00	22.64	38.07	14.16	31	.56	43.31	54.	00	-10.69	Vertical
12060.00	*						54.	00		Vertical
14472.00	*						54.	00		Vertical
16884.00	*						54.	00		Vertica
4824.00	27.73	31.79	8.62	32	2.10	36.04	54.	00	-17.96	Horizontal
7236.00	22.03	36.19	11.68	31	.97	37.93	54.	00	-16.07	Horizontal
9648.00	21.65	38.07	14.16	31	.56	42.32	54.	00	-11.68	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)	Prea Fac (dl	tor	Level (dBuV/m)	Limit Line (dBuV/m)		Over Limit (dB)	polarization
4874.00	38.54	31.85	8.66	32.	12	46.93	74.00		-27.07	Vertical
7311.00	33.78	36.37	11.71	31.	91	49.95	74.	00	-24.05	Vertical
9748.00	33.37	38.27	14.25	31.	56	54.33	74.	00	-19.67	Vertical
12185.00	*						74.	00		Vertical
14622.00	*						74.	00		Vertical
17059.00	*						74.	00		Vertical
4874.00	39.15	31.85	8.66	32.	12	47.54	74.	00	-26.46	Horizontal
7311.00	32.48	36.37	11.71	31.	91	48.65	74.	00	-25.35	Horizontal
9748.00	33.28	38.27	14.25	31.	56	54.24	74.	00	-19.76	Horizontal
12185.00	*						74.	00		Horizontal
14622.00	*						74.	00		Horizontal
17059.00	*						74.	00		Horizontal
Average val				1						
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Prea Fac (dl	tor	Level (dBuV/m)	Limit (dBu)		Over Limit (dB)	polarization
4874.00	29.46	31.85	8.66	32.	12	37.85	54.	00	-16.15	Vertical
7311.00	22.11	36.37	11.71	31.	91	38.28	54.	00	-15.72	Vertical
9748.00	22.64	38.27	14.25	31.	56	43.60	54.	00	-10.40	Vertical
12185.00	*						54.	00		Vertical
14622.00	*						54.	00		Vertical
17059.00	*						54.	00		Vertical
4874.00	29.30	31.85	8.66	32.	12	37.69	54.	00	-16.31	Horizontal
7311.00	21.58	36.37	11.71	31.	91	37.75	54.	00	-16.25	Horizontal
9748.00	23.01	38.27	14.25	31.	56	43.97	54.	00	-10.03	Horizontal
12185.00	*						54.	00		Horizontal
14622.00	*						54.	00		Horizontal
17059.00	*						54.	00		Horizontal

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



Test mode:		802.11g		Tes	st channel:	High	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
4924.00	43.49	31.90	8.70	32.15	51.94	74.00	-22.06	Vertical
7386.00	34.08	36.49	11.76	31.83	50.50	74.00	-23.50	Vertical
9848.00	36.40	38.62	14.31	31.77	57.56	74.00	-16.44	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	43.01	31.90	8.70	32.15	51.46	74.00	-22.54	Horizontal
7386.00	33.10	36.49	11.76	31.83	49.52	74.00	-24.48	Horizontal
9848.00	32.62	38.62	14.31	31.77	53.78	74.00	-20.22	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	34.51	31.90	8.70	32.15	42.96	54.00	-11.04	Vertical
7386.00	24.03	36.49	11.76	31.83	40.45	54.00	-13.55	Vertical
9848.00	24.93	38.62	14.31	31.77	46.09	54.00	-7.91	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	33.45	31.90	8.70	32.15	41.90	54.00	-12.10	Horizontal
7386.00	22.51	36.49	11.76	31.83	38.93	54.00	-15.07	Horizontal
9848.00	21.90	38.62	14.31	31.77	43.06	54.00	-10.94	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					54.00		Horizontal

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



Test mode:		802.11n(H	IT20)		Test	channel:		Lowe	st	
Peak value:										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Fa	amp ctor IB)	Level (dBuV/m)	Limit Line (dBuV/m)		Over Limit (dB)	polarization
4824.00	39.13	31.79	8.62	32	.10	47.44	74.00		-26.56	Vertical
7236.00	33.48	36.19	11.68	31	.97	49.38	74.	00	-24.62	Vertical
9648.00	32.19	38.07	14.16	31	.56	52.86	74.	00	-21.14	Vertical
12060.00	*						74.	00		Vertical
14472.00	*						74.	00		Vertical
16884.00	*						74.	00		Vertical
4824.00	37.98	31.79	8.62	32	.10	46.29	74.	00	-27.71	Horizontal
7236.00	33.32	36.19	11.68	31	.97	49.22	74.	00	-24.78	Horizontal
9648.00	31.81	38.07	14.16	31	.56	52.48	74.	00	-21.52	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)	Fa	amp ctor IB)	Level (dBuV/m)	Limit (dBu		Over Limit (dB)	polarization
4824.00	28.30	31.79	8.62	32	.10	36.61	54.	00	-17.39	Vertical
7236.00	22.37	36.19	11.68	31	.97	38.27	54.	00	-15.73	Vertical
9648.00	22.55	38.07	14.16	31	.56	43.22	54.	00	-10.78	Vertical
12060.00	*						54.	00		Vertical
14472.00	*						54.	00		Vertical
16884.00	*						54.	00		Vertical
4824.00	27.58	31.79	8.62	32	.10	35.89	54.	00	-18.11	Horizontal
7236.00	21.92	36.19	11.68	31	.97	37.82	54.	00	-16.18	Horizontal
9648.00	21.57	38.07	14.16	31	.56	42.24	54.	00	-11.76	Horizontal
12060.00	*						54.	00		Horizontal
14472.00	*						54.	00		Horizontal
16884.00	*						54.	00		Horizontal

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

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



Test mode:		802.11n(H	T20)		Test	channel:		Midd	le	
Peak value:										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Fa	amp ctor B)	Level (dBuV/m)	Limit (dBu		Over Limit (dB)	polarization
4874.00	38.39	31.85	8.66	32	.12	46.78	74.00		-27.22	Vertical
7311.00	33.68	36.37	11.71	31	.91	49.85	74.	00	-24.15	Vertical
9748.00	33.30	38.27	14.25	31	.56	54.26	74.	00	-19.74	Vertical
12185.00	*						74.	00		Vertical
14622.00	*						74.	00		Vertical
17059.00	*						74.	00		Vertical
4874.00	39.02	31.85	8.66	32	.12	47.41	74.	00	-26.59	Horizontal
7311.00	32.40	36.37	11.71	31	.91	48.57	74.	00	-25.43	Horizontal
9748.00	33.22	38.27	14.25	31	.56	54.18	74.	00	-19.82	Horizontal
12185.00	*						74.	00		Horizontal
14622.00	*						74.	00		Horizontal
17059.00	*						74.	00		Horizontal
Average val				ı						
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Fa	amp ctor B)	Level (dBuV/m)	Limit (dBu		Over Limit (dB)	polarization
4874.00	29.31	31.85	8.66	32	.12	37.70	54.	00	-16.30	Vertical
7311.00	22.02	36.37	11.71	31	.91	38.19	54.	00	-15.81	Vertical
9748.00	22.57	38.27	14.25	31	.56	43.53	54.	00	-10.47	Vertical
12185.00	*						54.	00		Vertical
14622.00	*						54.	00		Vertical
17059.00	*						54.	00		Vertical
4874.00	29.18	31.85	8.66	32	.12	37.57	54.	00	-16.43	Horizontal
7311.00	21.50	36.37	11.71	31	.91	37.67	54.	00	-16.33	Horizontal
9748.00	22.95	38.27	14.25	31	.56	43.91	54.	00	-10.09	Horizontal
12185.00	*						54.	00		Horizontal
14622.00	*						54.	00		Horizontal
17059.00	*						54.	00		Horizontal

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

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



Test mode:		802.11n(H	IT20)		Test	channel:		High	est	
Peak value:										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Fa	amp ctor IB)	Level (dBuV/m)	Limit (dBu)		Over Limit (dB)	polarization
4924.00	43.22	31.90	8.70	32	.15	51.67	74.	00	-22.33	Vertical
7386.00	33.91	36.49	11.76	31	.83	50.33	74.	00	-23.67	Vertical
9848.00	36.28	38.62	14.31	31	.77	57.44	74.00		-16.56	Vertical
12310.00	*						74.	00		Vertical
14772.00	*						74.	00		Vertical
17234.00	*						74.	00		Vertical
4924.00	42.78	31.90	8.70	32	.15	51.23	74.	00	-22.77	Horizontal
7386.00	32.95	36.49	11.76	31	.83	49.37	74.	00	-24.63	Horizontal
9848.00	32.51	38.62	14.31	31	.77	53.67	74.	00	-20.33	Horizontal
12310.00	*						74.	00		Horizontal
14772.00	*						74.	00		Horizontal
17234.00	*						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
4924.00	34.26	31.90	8.70	32.15	42.71	54.00	-11.29	Vertical
7386.00	23.87	36.49	11.76	31.83	40.29	54.00	-13.71	Vertical
9848.00	24.81	38.62	14.31	31.77	45.97	54.00	-8.03	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	33.23	31.90	8.70	32.15	41.68	54.00	-12.32	Horizontal
7386.00	22.36	36.49	11.76	31.83	38.78	54.00	-15.22	Horizontal
9848.00	21.79	38.62	14.31	31.77	42.95	54.00	-11.05	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					54.00		Horizontal

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

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



Test mode:	802.11n(HT40)				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
4844.00	38.42	31.81	8.63	32.	11	46.75	74.	00	-27.25	Vertical
7266.00	33.03	36.28	11.69	31.9	94	49.06	74.	00	-24.94	Vertical
9688.00	31.87	38.13	14.21	31.	52	52.69	74.	00	-21.31	Vertical
12060.00	*						74.	00		Vertical
14472.00	*						74.	00		Vertical
16884.00	*						74.	00		Vertical
4844.00	37.38	31.81	8.63	32.	11	45.71	74.	00	-28.29	Horizontal
7266.00	32.93	36.28	11.69	31.9	94	48.96	74.	00	-25.04	Horizontal
9688.00	31.51	38.13	14.21	31.	52	52.33	74.	00	-21.67	Horizontal
12060.00	*						74.	00		Horizontal
14472.00	*						74.	00		Horizontal
16884.00	*						74.	00		Horizontal

Average value:

7110rago var								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Factor (dBu\//m)		Over Limit (dB)	polarization
4844.00	27.65	31.81	8.63	32.11	35.98	54.00	-18.02	Vertical
7266.00	21.94	36.28	11.69	31.94	37.97	54.00	-16.03	Vertical
9688.00	22.25	38.13	14.21	31.52	43.07	54.00	-10.93	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4844.00	27.02	31.81	8.63	32.11	35.35	54.00	-18.65	Horizontal
7266.00	21.54	36.28	11.69	31.94	37.57	54.00	-16.43	Horizontal
9688.00	21.29	38.13	14.21	31.52	42.11	54.00	-11.89	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:		802.11n(H	T40)	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	37.80	31.85	8.66	32.12	46.19	74.00	-27.81	Vertical
7311.00	33.31	36.37	11.71	31.91	49.48	74.00	-24.52	Vertical
9748.00	33.03	38.27	14.25	31.56	53.99	74.00	-20.01	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	38.52	31.85	8.66	32.12	46.91	74.00	-27.09	Horizontal
7311.00	32.07	36.37	11.71	31.91	48.24	74.00	-25.76	Horizontal
9748.00	32.98	38.27	14.25	31.56	53.94	74.00	-20.06	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	28.77	31.85	8.66	32.12	37.16	54.00	-16.84	Vertical
7311.00	21.66	36.37	11.71	31.91	37.83	54.00	-16.17	Vertical
9748.00	22.31	38.27	14.25	31.56	43.27	54.00	-10.73	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	28.71	31.85	8.66	32.12	37.10	54.00	-16.90	Horizontal
7311.00	21.19	36.37	11.71	31.91	37.36	54.00	-16.64	Horizontal
9748.00	22.71	38.27	14.25	31.56	43.67	54.00	-10.33	Horizontal
12185.00	*					54.00		Horizontal
14622.00	*					54.00		Horizontal
17059.00	*					54.00		Horizontal

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

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



Test mode:		802.11n(H	IT40)		Test	channel:		Highe	est	
Peak value:										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Fac	amp ctor B)	Level (dBuV/m)	Limit Line (dBuV/m)		Over Limit (dB)	polarization
4904.00	42.21	31.88	8.68	32.	.13	50.64	74.00		-23.36	Vertical
7356.00	33.28	36.45	11.75	31.	.86	49.62	74.	00	-24.38	Vertical
9808.00	35.82	38.43	14.29	31.	.68	56.86	74.	00	-17.14	Vertical
12310.00	*						74.	00		Vertical
14772.00	*						74.	00		Vertical
17234.00	*						74.	00		Vertical
4904.00	41.93	31.88	8.68	32.	.13	50.36	74.	00	-23.64	Horizontal
7356.00	32.39	36.45	11.75	31.	.86	48.73	74.	00	-25.27	Horizontal
9808.00	32.08	38.43	14.29	31.	.68	53.12	74.	00	-20.88	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)	Fac	amp ctor B)	Level (dBuV/m)	Limit (dBu		Over Limit (dB)	polarization
4904.00	33.33	31.88	8.68	32.	.13	41.76	54.	00	-12.24	Vertical
7356.00	23.25	36.45	11.75	31.	.86	39.59	54.	00	-14.41	Vertical
9808.00	24.37	38.43	14.29	31.	.68	45.41	54.	00	-8.59	Vertical
12310.00	*						54.	00		Vertical
14772.00	*						54.	00		Vertical
17234.00	*						54.	00		Vertical
4904.00	32.43	31.88	8.68	32.	.13	40.86	54.	00	-13.14	Horizontal
7356.00	21.82	36.45	11.75	31	.86	38.16	54.	00	-15.84	Horizontal
9808.00	21.38	38.43	14.29	31	.68	42.42	54.	00	-11.58	Horizontal
12310.00	*						54.	00		Horizontal
14772.00	*						54.	00		Horizontal
17234.00	*						54.	00	<u> </u>	Horizontal

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

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



8 Test Setup Photo

Reference to the appendix I for details.

9 EUT Constructional Details

Reference to the appendix II for details.

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