

TEST REPORT

Applicant: Shenzhen Dangs Science and Technology Co., Ltd

Address of Applicant: 901,GDC Building,Keji Mid 3rd Road Maling Community,
Yuehai Sub-district,Nanshan, Shenzhen, China 518057

Manufacturer: Shenzhen Dangs Science and Technology Co., Ltd

Address of Manufacturer: 901,GDC Building,Keji Mid 3rd Road Maling Community,
Yuehai Sub-district,Nanshan, Shenzhen, China 518057

Factory: LENOVO(HUIYANG)ELECTRONIC INDUSTRIAL CO.,LTD

Address of Factory: LENOVO SCIENCE & TECHNOLOGY PARK,HUIYANG
ECONOMIC DEVELOPMENT ZONE, HUIZHOU,
GUANGDONG, CHINA

Equipment Under Test (EUT)

Product Name: Smart Projector

Model No.: See section 5.1

FCC ID: 2AV2J-DBX3

IC: 27636-DBX3

Applicable standards: FCC CFR Title 47 Part 15 Subpart E Section 15.407
RSS-Gen Issue 5
RSS-247 Issue 2

Date of sample receipt: August 01, 2021

Date of Test: August 02-19, 2021

Date of report issue: August 20, 2021

Test Result : PASS *

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

Authorized Signature:



Robinson Luo

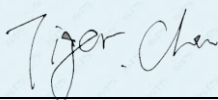
Laboratory Manager

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.

2 Version

Version No.	Date	Description
00	August 20, 2021	Original

Prepared By:

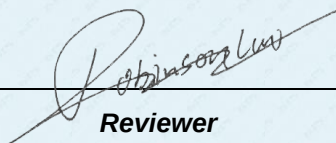


Date:

August 20, 2021

Project Engineer

Check By:



Reviewer

Date:

August 20, 2021

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4 Test Summary

Test Item	Section in CFR 47	Result
Antenna requirement	FCC part 15.203	PASS
AC Power Line Conducted Emission	FCC part 15.207	PASS
99% Bandwidth	Report only	PASS
Emission Bandwidth	FCC part 15.407(a)	PASS
Peak Transmit Power	FCC part 15.407(a)(1)(2)	PASS
Power Spectral Density	FCC part 15.407(a) (1)(2)	PASS
Undesirable Emission	FCC part 15.407(b), 15.205/15.209	PASS
Radiated Emission	FCC part 15.205/15.209	PASS
Frequency Stability	FCC part 15.407(g)	PASS

Test Item	Section in RSS	Result
Antenna requirement	RSS-Gen 6.8	PASS
AC Power Line Conducted Emission	RSS-Gen 8.8	PASS
99% Bandwidth & Emission Bandwidth	RSS-Gen 6.7 & RSS-247 section 6	PASS
Peak Transmit Power	RSS-247 section 6	PASS
Power Spectral Density	RSS-247 section 6	PASS
Undesirable Emission	RSS-247 section 6	PASS
Radiated Emission	RSS-Gen 8.9 & 8.10	PASS
Frequency Stability	RSS-Gen 8.11	PASS

Remark:

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

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 uncertainty is for coverage factor of k=2 and a level of confidence of 95%.

5 General Information

5.1 General Description of EUT

Product Name:	Smart Projector				
FCC Model No.:	DBX***** (for internal coding and trading purpose, “*****” in model can respectively be 0-9, A-Z, +, -, /, () or blank.)				
IC Model No.:	DBX3, DBX3S, DBX3A, DBJG3X, DBJG21A				
Remark: All above models are identical in the same PCB layout, interior structure and electrical circuits. The difference is model name for commercial purpose.					
Test Model No.:	DBX3				
Test sample(s) ID:	GTS202107000305-1				
Sample(s) Status:	Engineer sample				
Serial No.:	DZLX34211501482				
Hardware Version:	LF_9652_V11				
Software Version:	2.1.9.6				
TPC support:	No				
Operation Frequency:	Band	Mode	Frequency Range(MHz)	Number of channels	
	U-NII Band I	IEEE 802.11a	5180-5240	4	
		IEEE 802.11n/ac 20MHz	5180-5240	4	
		IEEE 802.11n/ac 40MHz	5190-5230	2	
		IEEE 802.11ac 80MHz	5210	1	
	U-NII Band II-A	IEEE 802.11a	5260-5320	4	
		IEEE 802.11n/ac 20MHz	5260-5320	4	
		IEEE 802.11n/ac 40MHz	5270-5310	2	
		IEEE 802.11ac 80MHz	5290	1	
	U-NII Band II-C	IEEE 802.11a	5500-5700	11	
		IEEE 802.11n/ac 20MHz	5500-5700	11	
		IEEE 802.11n/ac 40MHz	5510-5670	5	
		IEEE 802.11ac 80MHz	5530-5610	2	
Modulation technology:	OFDM				
Antenna Type:	Integral Antenna				
Antenna gain:	ANT 1: 3.0dBi @Band 1, 3.3dBi @Band 2, 4.1dBi @Band 3 ANT 2: 3.4dBi @Band 1, 2.7dBi @Band 2, 2.9dBi @Band 3				
Power supply:	ADAPTER MODEL: HKA180180A0-6B INPUT: AC 100-240V,60/50Hz 2.5A OUTPUT: DC 18.0V, 10.0A				

Channel list for 802.11a/n(HT20)/ac(HT20)							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
36	5180MHz	40	5200MHz	44	5220MHz	48	5240MHz
52	5260MHz	56	5280MHz	60	5300MHz	64	5320MHz
100	5500MHz	104	5520MHz	108	5540MHz	112	5560MHz
116	5580MHz	120	5600MHz	124	5620MHz	128	5640MHz
132	5660MHz	136	5680MHz	140	5700MHz		

Channel list for 802.11n(HT40)/ac(HT40)							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
38	5190MHz	46	5230MHz	54	5270MHz	62	5310MHz
102	5510MHz	110	5550MHz	118	5590MHz	126	5630MHz
134	5670MHz						

Channel list for 802.11ac(HT80)							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
42	5210MHz	58	5290MHz	106	5530MHz	122	5610MHz

5.2 Test mode

Transmitting mode	Keep the EUT in transmitting with modulation..
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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	Data rate	Mode	Data rate
802.11a/n/ac(HT20)	6/6.5 Mbps	802.11ac(HT80)	29.3 Mbps
802.11n/ac(HT40)	13.5 Mbps		

5.3 Test Facility

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

● **FCC —Registration No.: 381383**

Designation Number: CN5029

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.

● **IC —Registration No.: 9079A**

CAB identifier: CN0091

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.

● **NVLAP (LAB CODE:600179-0)**

Global United Technology Services Co., Ltd., is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP).

5.4 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, sBaoan District, Shenzhen, Guangdong, China 518102

Tel: 0755-27798480

Fax: 0755-27798960

5.5 Description of Support Units

None.

5.6 Deviation from Standards

None.

5.7 Abnormalities from Standard Conditions

None.

5.8 Additional Instructions

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

6 Test Instruments list

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. 02 2020	July. 01 2025
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. 24 2021	June. 23 2022
4	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	June. 24 2021	June. 23 2022
5	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120 D	GTS208	June. 24 2021	June. 23 2022
6	Horn Antenna	ETS-LINDGREN	3160	GTS217	June. 24 2021	June. 23 2022
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
8	Coaxial Cable	GTS	N/A	GTS213	June. 24 2021	June. 23 2022
9	Coaxial Cable	GTS	N/A	GTS211	June. 24 2021	June. 23 2022
10	Coaxial cable	GTS	N/A	GTS210	June. 24 2021	June. 23 2022
11	Coaxial Cable	GTS	N/A	GTS212	June. 24 2021	June. 23 2022
12	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	June. 24 2021	June. 23 2022
13	Amplifier(2GHz-20GHz)	HP	84722A	GTS206	June. 24 2021	June. 23 2022
14	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June. 24 2021	June. 23 2022
15	Band filter	Amindeon	82346	GTS219	June. 24 2021	June. 23 2022
16	Power Meter	Anritsu	ML2495A	GTS540	June. 24 2021	June. 23 2022
17	Power Sensor	Anritsu	MA2411B	GTS541	June. 24 2021	June. 23 2022
18	Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	GTS575	June. 24 2021	June. 23 2022
19	Splitter	Agilent	11636B	GTS237	June. 24 2021	June. 23 2022
20	Loop Antenna	ZHINAN	ZN30900A	GTS534	June. 24 2021	June. 23 2022
21	Breitband hornantenne	SCHWARZBECK	BBHA 9170	GTS579	Oct. 18 2020	Oct. 17 2021
22	Amplifier	TDK	PA-02-02	GTS574	Oct. 18 2020	Oct. 17 2021
23	Amplifier	TDK	PA-02-03	GTS576	Oct. 18 2020	Oct. 17 2021
24	PSA Series Spectrum Analyzer	Rohde & Schwarz	FSP	GTS578	June. 24 2021	June. 23 2022

Conducted Emission						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	Shielding Room	ZhongYu Electron	7.3(L)x3.1(W)x2.9(H)	GTS252	May.15 2019	May.14 2022
2	EMI Test Receiver	R&S	ESCI 7	GTS552	June. 24 2021	June. 23 2022
3	Coaxial Switch	ANRITSU CORP	MP59B	GTS225	June. 24 2021	June. 23 2022
4	ENV216 2-L-V-NETZNACHB.DE	ROHDE&SCHWARZ	ENV216	GTS226	June. 24 2021	June. 23 2022
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. 24 2021	June. 23 2022
8	Absorbing clamp	Elektronik-Feinmechanik	MDS21	GTS229	June. 24 2021	June. 23 2022
9	ISN	SCHWARZBECK	NTFM 8158	GTD565	June. 24 2021	June. 23 2022
10	High voltage probe	SCHWARZBECK	TK9420	GTS537	July. 09 2021	July. 08 2022

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. 24 2021	June. 23 2022
2	EMI Test Receiver	R&S	ESCI 7	GTS552	June. 24 2021	June. 23 2022
3	Spectrum Analyzer	Agilent	E4440A	GTS533	June. 24 2021	June. 23 2022
4	MXG vector Signal Generator	Agilent	N5182A	GTS567	June. 24 2021	June. 23 2022
5	ESG Analog Signal Generator	Agilent	E4428C	GTS568	June. 24 2021	June. 23 2022
6	USB RF Power Sensor	DARE	RPR3006W	GTS569	June. 24 2021	June. 23 2022
7	RF Switch Box	Shongyi	RFSW3003328	GTS571	June. 24 2021	June. 23 2022
8	Programmable Constant Temp & Humi Test Chamber	WEWON	WHTH-150L-40-880	GTS572	June. 24 2021	June. 23 2022

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. 24 2021	June. 23 2022
2	Barometer	ChangChun	DYM3	GTS255	June. 24 2021	June. 23 2022

7 Test results and Measurement Data

7.1 Antenna requirement:

Standard requirement:	FCC Part15 C Section 15.203
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.	
Standard requirement:	RSS-Gen 6.8
A transmitter can only be sold or operated with antennas with which it was approved. When a measurement at the antenna connector is used to determine RF output power, the effective gain of the device's antenna shall be stated, based on measurement or on data from the antenna manufacturer. For transmitters of RF output power of 10 milliwatts or less, only the portion of the antenna gain that is in excess of 6 dBi (6 dB above isotropic gain) shall be added to the measured RF output power to demonstrate compliance with the radiated power limits specified in the applicable standard. For transmitters of output power greater than 10 milliwatts, the total antenna gain shall be added to the measured RF output power to demonstrate compliance to the specified radiated power	
E.U.T Antenna:	
The antenna is integral antenna, reference to the appendix II for details	

7.2 Conducted Emissions

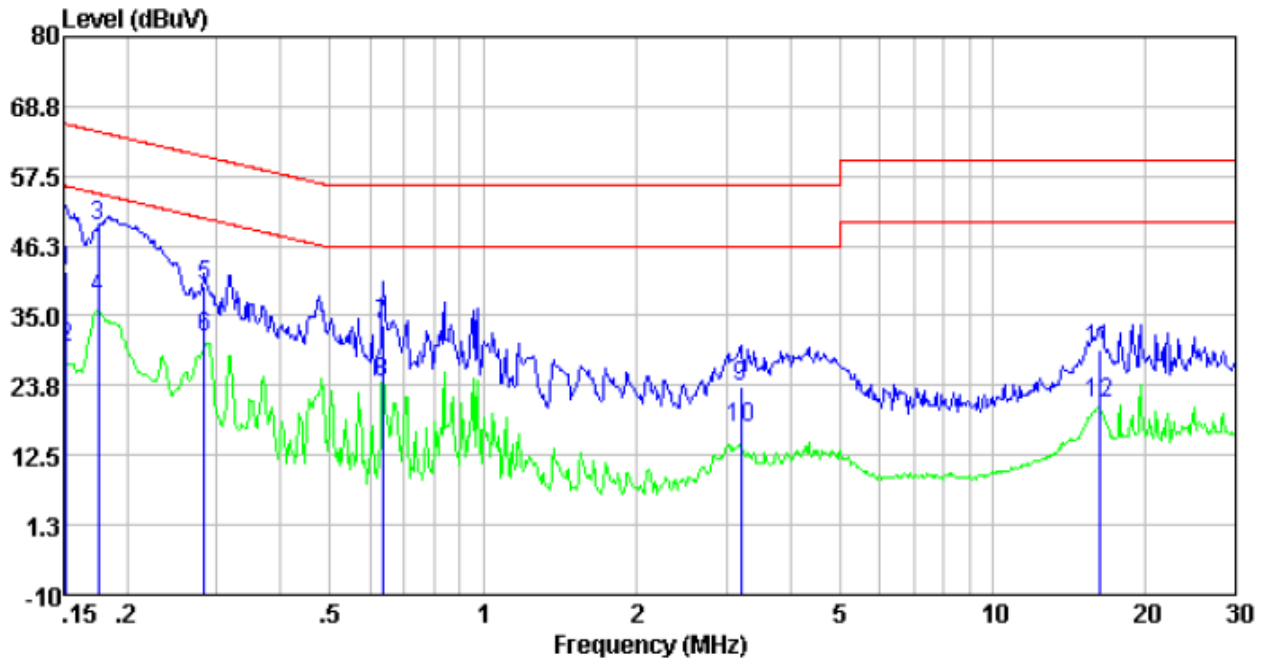
Test Requirement:	FCC Part15 C Section 15.207 RSS-Gen Section 8.8					
Test Method:	ANSI C63.10:2013 & RSS-Gen					
Test Frequency Range:	150KHz to 30MHz					
Class / Severity:	Class B					
Receiver setup:	RBW=9KHz, VBW=30KHz					
Limit:	Frequency range (MHz)		Limit (dBuV)			
			Quasi-peak		Average	
	0.15-0.5		66 to 56*		56 to 46*	
	0.5-5		56		46	
	5-30		60		50	
* Decreases with the logarithm of the frequency.						
Test procedure	The E.U.T and simulators are connected to the main power through a line impedance stabilization network(L.I.S.N.). The provide a 50ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refers 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 setup:	Reference Plane LISN AUX Equipment E.U.T 40cm 80cm LISN Filter EMI Receiver AC power Test table/Insulation plane Remark: E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m					
Test Instruments:	Refer to section 5.10 for details					
Test mode:	Refer to section 5.2 for details					
Test environment:	Temp.:	25 °C	Humid.:	52%	Press.:	1012mbar
Test voltage:	AC 120V, 60Hz					
Test results:	Pass					

Remark: Both high and low voltages have been tested to show only the worst low voltage test data.

Measurement data:

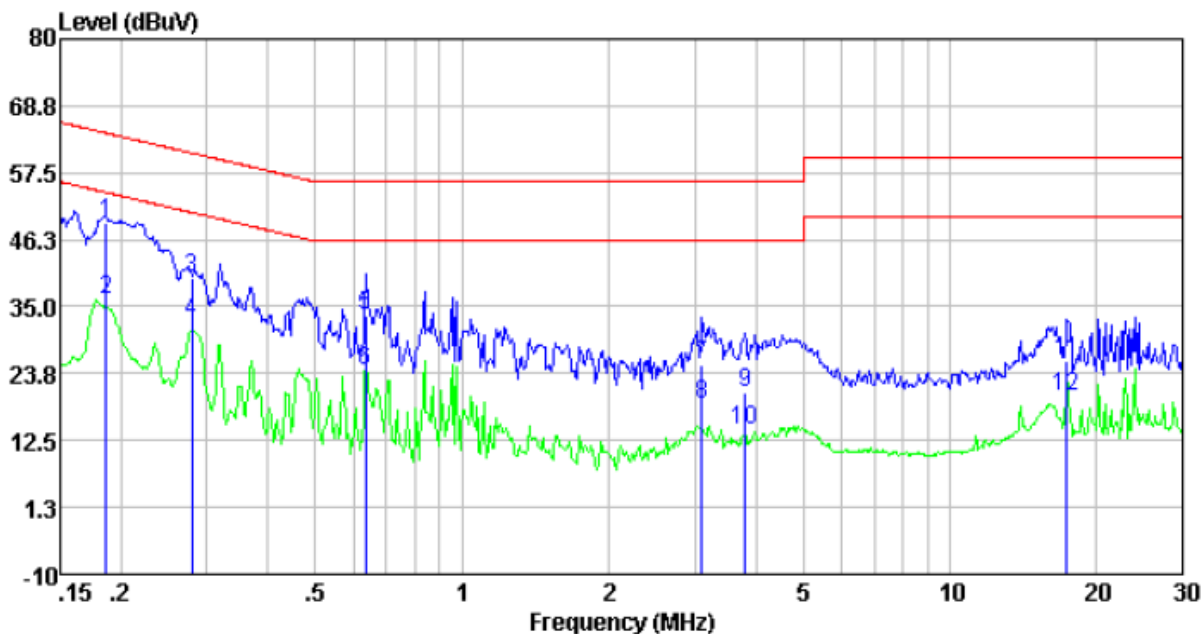
Pre-scan all test modes, found worst case at 802.11a(HT20) 5240MHz, and so only show the test result of 802.11a(HT20) 5240MHz

Line:



Freq MHz	Reading level dBuV	LISN/ISN factor dB/m	Cable loss dB	Level dBuV	Limit level dBuV	Over limit dB	Remark
0.15	31.87	10.40	0.01	42.28	65.91	-23.63	QP
0.15	19.56	10.40	0.01	29.97	55.91	-25.94	Average
0.17	39.05	10.40	0.01	49.46	64.72	-15.26	QP
0.17	27.33	10.40	0.01	37.74	54.72	-16.98	Average
0.28	29.44	10.40	0.01	39.85	60.72	-20.87	QP
0.28	21.02	10.40	0.01	31.43	50.72	-19.29	Average
0.63	23.19	10.28	0.02	33.49	56.00	-22.51	QP
0.63	13.79	10.28	0.02	24.09	46.00	-21.91	Average
3.21	13.18	10.20	0.05	23.43	56.00	-32.57	QP
3.21	6.50	10.20	0.05	16.75	46.00	-29.25	Average
16.23	19.01	10.23	0.17	29.41	60.00	-30.59	QP
16.23	10.65	10.23	0.17	21.05	50.00	-28.95	Average

Neutral:

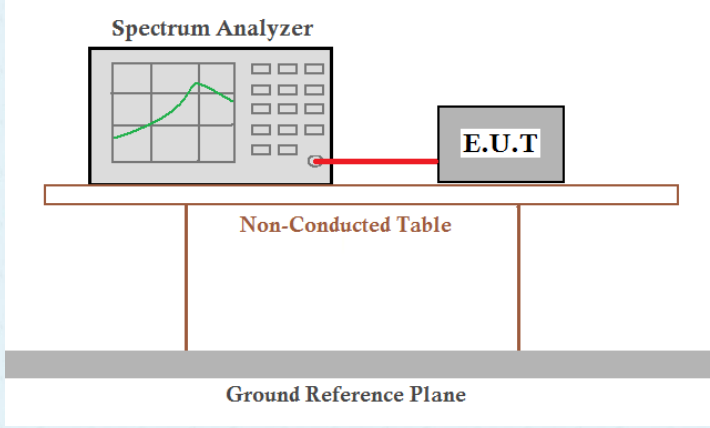


Freq MHz	Reading level dBuV	LISN/ISN factor dB/m	Cable loss dB	Level dBuV	Limit level dBuV	Over limit dB	Remark
0.19	38.66	10.40	0.01	49.07	64.20	-15.13	QP
0.19	25.90	10.40	0.01	36.31	54.20	-17.89	Average
0.28	29.33	10.40	0.01	39.74	60.85	-21.11	QP
0.28	22.21	10.40	0.01	32.62	50.85	-18.23	Average
0.63	23.18	10.28	0.02	33.48	56.00	-22.52	QP
0.63	13.94	10.28	0.02	24.24	46.00	-21.76	Average
3.11	14.88	10.20	0.05	25.13	56.00	-30.87	QP
3.11	8.34	10.20	0.05	18.59	46.00	-27.41	Average
3.80	10.43	10.20	0.06	20.69	56.00	-35.31	QP
3.80	4.07	10.20	0.06	14.33	46.00	-31.67	Average
17.38	15.55	10.25	0.17	25.97	60.00	-34.03	QP
17.38	9.33	10.25	0.17	19.75	50.00	-30.25	Average

Notes:

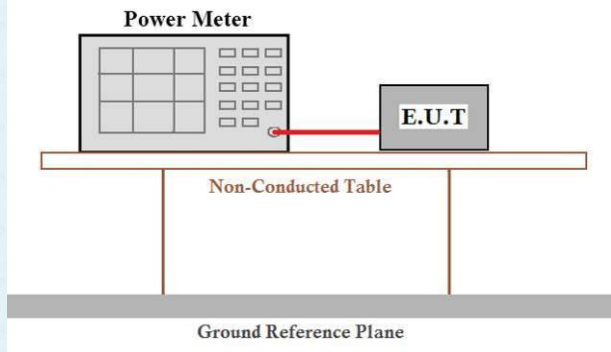
1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Receiver Read level + LISN Factor + Cable Loss

7.3 Emission Bandwidth and 99% Occupied Bandwidth

Test Requirement:	FCC Part15 E Section 15.407 RSS-247 section 6 & RSS-Gen 6.7
Test Method:	KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 ANSI C63.10:2013 and RSS-Gen
Limit:	N/A
Test setup:	 The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T (Equipment Under Test) via a red cable. Both the Spectrum Analyzer and the E.U.T are placed on a Non-Conducted Table. The table is supported by a Ground Reference Plane.
Test procedure:	According to KDB 789033 D02 General U-NII Test Procedures New Rules v02r01.
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

Measurement Data: The detailed test data see Appendix for WIFI 5G

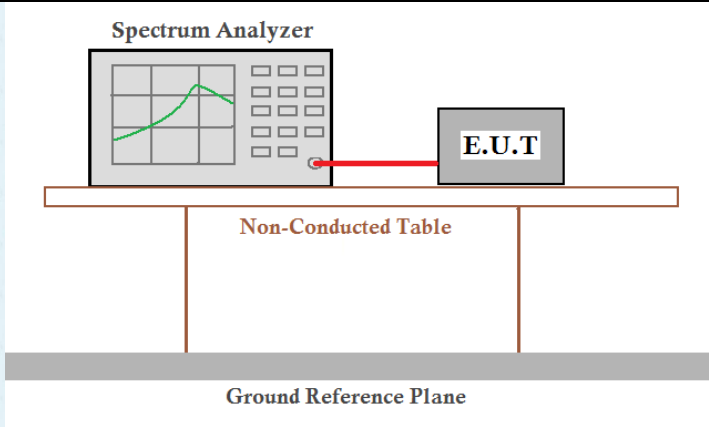
7.4 Peak Transmit Power

Test Requirement:	FCC Part15 E Section 15.407(a) RSS-247 section 6																
Test Method:	KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 ANSI C63.10:2013 and RSS-Gen																
FCC Limit:	<table><tr><th>Operation Band</th><th>EUT Category</th><th>Limit</th></tr><tr><td rowspan="3">U-NII-1</td><td>Access Point(Mater Device)</td><td>1 Watt(30dBm)</td></tr><tr><td>Fixed point-to-point Acess Ponit</td><td>1 Watt(30dBm)</td></tr><tr><td>Mobile and portable clinet device</td><td>250mW(23.98dBm)</td></tr><tr><td>U-NII-2A</td><td></td><td>250mW(23.98dBm) or 11dBm+10 log B</td></tr><tr><td>U-NII-2C</td><td></td><td>250mW(23.98dBm) or 11dBm+10 log B</td></tr></table>	Operation Band	EUT Category	Limit	U-NII-1	Access Point(Mater Device)	1 Watt(30dBm)	Fixed point-to-point Acess Ponit	1 Watt(30dBm)	Mobile and portable clinet device	250mW(23.98dBm)	U-NII-2A		250mW(23.98dBm) or 11dBm+10 log B	U-NII-2C		250mW(23.98dBm) or 11dBm+10 log B
Operation Band	EUT Category	Limit															
U-NII-1	Access Point(Mater Device)	1 Watt(30dBm)															
	Fixed point-to-point Acess Ponit	1 Watt(30dBm)															
	Mobile and portable clinet device	250mW(23.98dBm)															
U-NII-2A		250mW(23.98dBm) or 11dBm+10 log B															
U-NII-2C		250mW(23.98dBm) or 11dBm+10 log B															
IC Limit:	<table><tr><th>Operation Frequency Band</th><th>Limit</th></tr><tr><td>5150~5250 MHz</td><td>EIRP shall not exceed 200 mW or 10 + 10 logB, dBm</td></tr><tr><td>5250~5350 MHz</td><td>Conducted output power shall not exceed 250 mW or 11 +10 logB EIRP shall not exceed 1.0 W or 17 + 10 logB, dBm</td></tr><tr><td>5470~5600 MHz and 5650~5725 MHz</td><td>Conducted output power shall not exceed 250 mW or 11 +10 logB EIRP shall not exceed 1.0 W or 17 + 10 logB, dBm</td></tr></table>	Operation Frequency Band	Limit	5150~5250 MHz	EIRP shall not exceed 200 mW or 10 + 10 logB, dBm	5250~5350 MHz	Conducted output power shall not exceed 250 mW or 11 +10 logB EIRP shall not exceed 1.0 W or 17 + 10 logB, dBm	5470~5600 MHz and 5650~5725 MHz	Conducted output power shall not exceed 250 mW or 11 +10 logB EIRP shall not exceed 1.0 W or 17 + 10 logB, dBm								
Operation Frequency Band	Limit																
5150~5250 MHz	EIRP shall not exceed 200 mW or 10 + 10 logB, dBm																
5250~5350 MHz	Conducted output power shall not exceed 250 mW or 11 +10 logB EIRP shall not exceed 1.0 W or 17 + 10 logB, dBm																
5470~5600 MHz and 5650~5725 MHz	Conducted output power shall not exceed 250 mW or 11 +10 logB EIRP shall not exceed 1.0 W or 17 + 10 logB, dBm																
Test setup:	Power Meter  Non-Conducted Table Ground Reference Plane																
Test procedure:	Measurement using an RF average power meter (i) Measurements may be performed using a wideband RF power meter with a thermocouple detector or equivalent if all of the conditions listed below are satisfied a) The EUT is configured to transmit continuously or to transmit with a constant duty cycle. b) At all times when the EUT is transmitting, it must be transmitting at its maximum power control level. c) The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five. (ii) If the transmitter does not transmit continuously, measure the duty cycle, x, of the transmitter output signal as described in																

	section B). (iii) Measure the average power of the transmitter. This measurement is an average over both the on and off periods of the transmitter. (iv) Adjust the measurement in dBm by adding $10 \log(1/x)$ where x is the duty cycle (e.g., $10 \log(1/0.25)$ if the duty cycle is 25 percent).
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

Measurement Data: The detailed test data see Appendix for WIFI 5G

7.5 Power Spectral Density

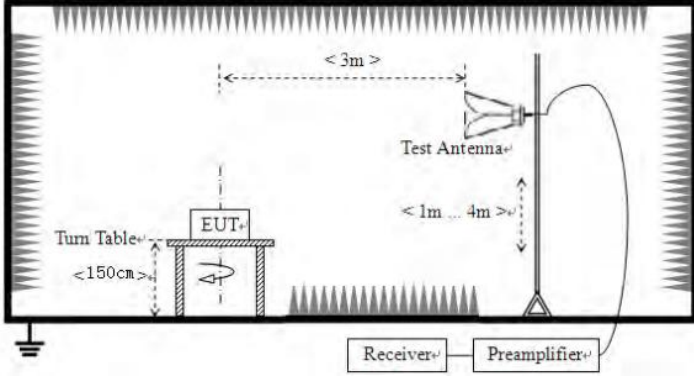
Test Requirement:	FCC Part15 E Section 15.407(a) RSS-247 section 6	
Test Method:	KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 ANSI C63.10:2013 and RSS-Gen	
FCC Limit:	Frequency band (MHz)	Limit
	5150-5250	≤17dBm in 1MHz for master device
		≤11dBm in 1MHz for client device
	5250-5350	≤11dBm in 1MHz for client device
	5470-5725	≤11dBm in 1MHz for client device
Remark: The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test.		
IC Limit:	Frequency band (MHz)	Limit
	5150-5250	≤10dBm in 1MHz, EIRP spectral density
	5250-5350	≤11dBm in 1MHz
	5470-5725	≤11dBm in 1MHz
Test setup:	 The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T. (Equipment Under Test) via a red cable. Both the Spectrum Analyzer and the E.U.T. are placed on a Non-Conducted Table. The table is supported by a Ground Reference Plane.	
Test procedure:	1) Create an average power spectrum for the EUT operating mode being tested by following the instructions in section E)2) for measuring maximum conducted output power using a spectrum analyzer or EMI receiver: select the appropriate test method (SA-1, SA-2, SA-3, or alternatives to each) and apply it up to, but not including, the step labeled, "Compute power...". 2) Use the peak search function on the instrument to find the peak of the spectrum. 3) Make the following adjustments to the peak value of the spectrum, if applicable: a) If Method SA-2 or SA-2 Alternative was used, add $10 \log(1/x)$, where x is the duty cycle, to the peak of the spectrum. b) If Method SA-3 Alternative was used and the linear mode was	

	used in step E)2)g)(viii), add 1 dB to the final result to compensate for the difference between linear averaging and power averaging. 4) The result is the PSD.
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

Measurement Data: The detailed test data see Appendix for WIFI 5G

7.6 Band Edge

Test Requirement:	FCC Part15 E Section 15.407 and 205, 209 RSS-Gen 8.9 & 8.10, RSS-247 section 6																								
Test Method:	ANSI C63.10:2013 & RSS-Gen																								
Test site:	Measurement Distance: 3m (Semi-Anechoic Chamber)																								
Receiver setup:	<table><tr><td>Frequency</td><td>Detector</td><td>RBW</td><td>VBW</td><td>Remark</td></tr><tr><td>30MHz-1GHz</td><td>Quasi-peak</td><td>100KHz</td><td>300KHz</td><td>Quasi-peak Value</td></tr><tr><td rowspan="2">Above 1GHz</td><td>Peak</td><td>1MHz</td><td>3MHz</td><td>Peak Value</td></tr><tr><td>AV</td><td>1MHz</td><td>3MHz</td><td>Average Value</td></tr></table>					Frequency	Detector	RBW	VBW	Remark	30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak Value	Above 1GHz	Peak	1MHz	3MHz	Peak Value	AV	1MHz	3MHz	Average Value	
Frequency	Detector	RBW	VBW	Remark																					
30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak Value																					
Above 1GHz	Peak	1MHz	3MHz	Peak Value																					
	AV	1MHz	3MHz	Average Value																					
Limit:	<table><tr><td>Frequency</td><td>Limit (dBuV/m @3m)</td><td>Remark</td></tr><tr><td>30MHz-88MHz</td><td>40.0</td><td>Quasi-peak Value</td></tr><tr><td>88MHz-216MHz</td><td>43.5</td><td>Quasi-peak Value</td></tr><tr><td>216MHz-960MHz</td><td>46.0</td><td>Quasi-peak Value</td></tr><tr><td>960MHz-1GHz</td><td>54.0</td><td>Quasi-peak Value</td></tr><tr><td rowspan="2">Above 1GHz</td><td>54.0</td><td>Average Value</td></tr><tr><td>68.2</td><td>Peak Value</td></tr></table> Undesirable emission limits: (1) For transmitters operating in the 5.15-5.25 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz. (2) For transmitters operating in the 5.25-5.35 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz. Devices operating in the 5.25-5.35 GHz band that generate emissions in the 5.15-5.25 GHz band must meet all applicable technical requirements for operation in the 5.15-5.25 GHz band (including indoor use) or alternatively meet an out-of-band emission EIRP limit of -27 dBm/MHz in the 5.15-5.25 GHz band. (3) For transmitters operating in the 5.47-5.725 GHz band: all emissions outside of the 5.47-5.725 GHz band shall not exceed an EIRP of -27 dBm/MHz.					Frequency	Limit (dBuV/m @3m)	Remark	30MHz-88MHz	40.0	Quasi-peak Value	88MHz-216MHz	43.5	Quasi-peak Value	216MHz-960MHz	46.0	Quasi-peak Value	960MHz-1GHz	54.0	Quasi-peak Value	Above 1GHz	54.0	Average Value	68.2	Peak Value
Frequency	Limit (dBuV/m @3m)	Remark																							
30MHz-88MHz	40.0	Quasi-peak Value																							
88MHz-216MHz	43.5	Quasi-peak Value																							
216MHz-960MHz	46.0	Quasi-peak Value																							
960MHz-1GHz	54.0	Quasi-peak Value																							
Above 1GHz	54.0	Average Value																							
	68.2	Peak Value																							
Test Procedure:	a. The EUT was placed on the top of a rotating table 1.5 m above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. c. 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. d. 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 rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. f. 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 setup:	For radiated emissions above 1GHz 
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

Remarks:

1. Only show the worst case test data.
2. $\text{Final Level} = \text{Receiver Read level} + \text{Antenna Factor} + \text{Cable Loss} - \text{Preamplifier Factor}$
3. The emission levels of other frequencies are very lower than the limit and not show in test report.
4. The pre-test were performed on lowest, middle and highest frequencies, only the worst case's (lowest and highest frequencies) data was showed.
5. According to KDB 789033 D02 v02r01 section G) 1) (d), for For measurements above 1000 MHz @ 3m distance, the limit of field strength is computed as follows:
 $E[\text{dBuV/m}] = \text{EIRP}[\text{dBm}] + 95.2;$
For example, if $\text{EIRP} = -27\text{dBm}$
 $E[\text{dBuV/m}] = -27 + 95.2 = 68.2\text{dBuV/m}.$

Measurement Data:

Worse case mode:		802.11a		Test Frequency:		5180MHz	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5150	51.45	-3.63	47.82	68.2	-20.38	peak	H
5150	46.91	-3.63	43.28	54	-10.72	AVG	H
5150	50.56	-3.63	46.93	68.2	-21.27	peak	V
5150	43.47	-3.63	39.84	54	-14.16	AVG	V

Worse case mode:		802.11a		Test Frequency:		5320MHz	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5350	51.07	-3.59	47.48	68.2	-20.72	peak	H
5350	46.34	-3.59	42.75	54	-11.25	AVG	H
5350	51.2	-3.59	47.61	68.2	-20.59	peak	V
5350	45.37	-3.59	41.78	54	-12.22	AVG	V

Worse case mode:		802.11a		Test Frequency:		5500MHz	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5460	48.38	-3.54	44.84	68.2	-23.36	peak	H
5460	45.55	-3.54	42.01	54	-11.99	AVG	H
5460	50.84	-3.54	47.3	68.2	-20.9	peak	V
5460	44.54	-3.54	41	54	-13	AVG	V

Worse case mode:		802.11a		Test Frequency:		5700MHz	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5725	48.7	-3.45	45.25	68.2	-22.95	peak	H
5725	44.14	-3.45	40.69	54	-13.31	AVG	H
5725	49.42	-3.45	45.97	68.2	-22.23	peak	V
5725	44.36	-3.45	40.91	54	-13.09	AVG	V

Worse case mode:		802.11n(HT20)		Test Frequency:		5180MHz	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5150	49.19	-3.63	45.56	68.2	-22.64	peak	H
5150	45.34	-3.63	41.71	54	-12.29	AVG	H
5150	51.5	-3.63	47.87	68.2	-20.33	peak	V
5150	44.42	-3.63	40.79	54	-13.21	AVG	V

Worse case mode:		802.11n(HT20)		Test Frequency:		5320MHz	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5350	48.29	-3.59	44.7	68.2	-23.5	peak	H
5350	44.97	-3.59	41.38	54	-12.62	AVG	H
5350	49.44	-3.59	45.85	68.2	-22.35	peak	V
5350	43.41	-3.59	39.82	54	-14.18	AVG	V

Worse case mode:		802.11n(HT20)		Test Frequency:		5500MHz	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5460	48.65	-3.54	45.11	68.2	-23.09	peak	H
5460	46.13	-3.54	42.59	54	-11.41	AVG	H
5460	50.06	-3.54	46.52	68.2	-21.68	peak	V
5460	45.65	-3.54	42.11	54	-11.89	AVG	V

Worse case mode:		802.11n(HT20)		Test Frequency:		5700MHz	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5725	51.81	-3.45	48.36	68.2	-19.84	peak	H
5725	45.77	-3.45	42.32	54	-11.68	AVG	H
5725	51.95	-3.45	48.5	68.2	-19.7	peak	V
5725	43.21	-3.45	39.76	54	-14.24	AVG	V

Worse case mode:		802.11n(HT40)		Test Frequency:		5190MHz	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5150	48.04	-3.63	44.41	68.2	-23.79	peak	H
5150	46.92	-3.63	43.29	54	-10.71	AVG	H
5150	48.15	-3.63	44.52	68.2	-23.68	peak	V
5150	45.04	-3.63	41.41	54	-12.59	AVG	V

Worse case mode:		802.11n(HT40)		Test Frequency:		5310MHz	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5350	50.14	-3.59	46.55	68.2	-21.65	peak	H
5350	46.17	-3.59	42.58	54	-11.42	AVG	H
5350	49.82	-3.59	46.23	68.2	-21.97	peak	V
5350	43.03	-3.59	39.44	54	-14.56	AVG	V

Worse case mode:		802.11n(HT40)		Test Frequency:		5510MHz	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5460	49.15	-3.54	45.61	68.2	-22.59	peak	H
5460	44.97	-3.54	41.43	54	-12.57	AVG	H
5460	50.29	-3.54	46.75	68.2	-21.45	peak	V
5460	44.72	-3.54	41.18	54	-12.82	AVG	V

Worse case mode:		802.11n(HT40)		Test Frequency:		5670MHz	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5725	48.23	-3.45	44.78	68.2	-23.42	peak	H
5725	44.77	-3.45	41.32	54	-12.68	AVG	H
5725	51.28	-3.45	47.83	68.2	-20.37	peak	V
5725	45.47	-3.45	42.02	54	-11.98	AVG	V

Worse case mode:		802.11ac(HT20)		Test Frequency:		5180MHz	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5150	49.55	-3.63	45.92	68.2	-22.28	peak	H
5150	45.9	-3.63	42.27	54	-11.73	AVG	H
5150	49.01	-3.63	45.38	68.2	-22.82	peak	V
5150	45.67	-3.63	42.04	54	-11.96	AVG	V

Worse case mode:		802.11ac(HT20)		Test Frequency:		5320MHz	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5350	48.24	-3.59	44.65	68.2	-23.55	peak	H
5350	43.61	-3.59	40.02	54	-13.98	AVG	H
5350	51.09	-3.59	47.5	68.2	-20.7	peak	V
5350	43.53	-3.59	39.94	54	-14.06	AVG	V

Worse case mode:		802.11ac		Test Frequency:		5500MHz	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5460	48.94	-3.54	45.4	68.2	-22.8	peak	H
5460	46.55	-3.54	43.01	54	-10.99	AVG	H
5460	51.85	-3.54	48.31	68.2	-19.89	peak	V
5460	43.45	-3.54	39.91	54	-14.09	AVG	V

Worse case mode:		802.11ac		Test Frequency:		5700MHz	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5725	49.11	-3.45	45.66	68.2	-22.54	peak	H
5725	45.5	-3.45	42.05	54	-11.95	AVG	H
5725	51.17	-3.45	47.72	68.2	-20.48	peak	V
5725	46.43	-3.45	42.98	54	-11.02	AVG	V

Worse case mode:		802.11ac(VHT40)		Test Frequency:		5190MHz	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5150	51.66	-3.63	48.03	68.2	-20.17	peak	H
5150	45.09	-3.63	41.46	54	-12.54	AVG	H
5150	48.86	-3.63	45.23	68.2	-22.97	peak	V
5150	46.42	-3.63	42.79	54	-11.21	AVG	V

Worse case mode:		802.11ac(VHT40)		Test Frequency:		5310MHz	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5350	50.11	-3.59	46.52	68.2	-21.68	peak	H
5350	44.01	-3.59	40.42	54	-13.58	AVG	H
5350	50.05	-3.59	46.46	68.2	-21.74	peak	V
5350	45.48	-3.59	41.89	54	-12.11	AVG	V

Worse case mode:		802.11ac(VHT40)		Test Frequency:		5510MHz	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5460	48.94	-3.54	45.4	68.2	-22.8	peak	H
5460	43.77	-3.54	40.23	54	-13.77	AVG	H
5460	51.68	-3.54	48.14	68.2	-20.06	peak	V
5460	45.23	-3.54	41.69	54	-12.31	AVG	V

Worse case mode:		802.11ac(VHT40)		Test Frequency:		5670MHz	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5725	50.37	-3.45	46.92	68.2	-21.28	peak	H
5725	43.07	-3.45	39.62	54	-14.38	AVG	H
5725	48.31	-3.45	44.86	68.2	-23.34	peak	V
5725	46.91	-3.45	43.46	54	-10.54	AVG	V

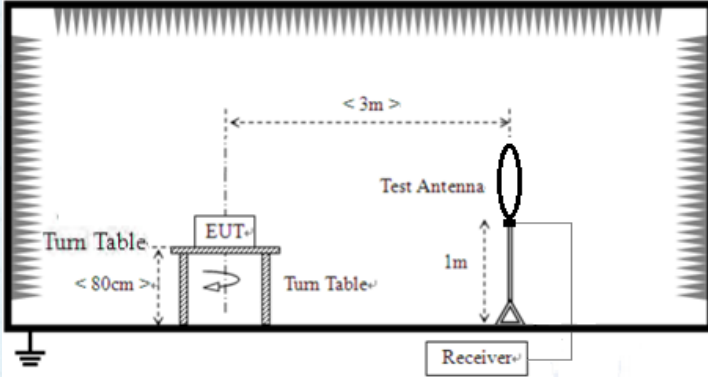
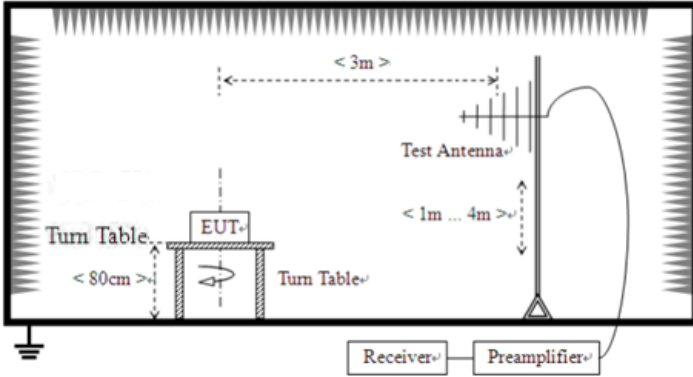
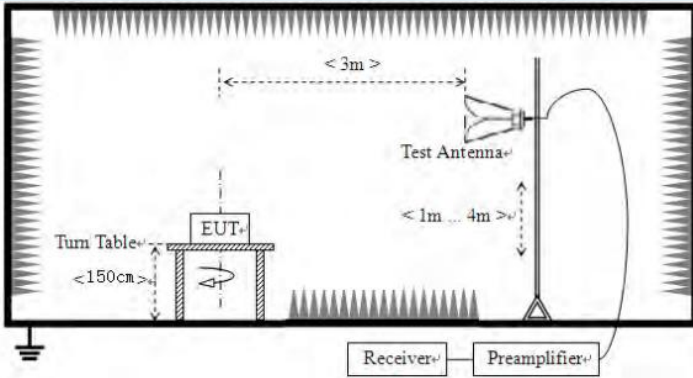
Worse case mode:		802.11ac(VHT80)		Test Frequency:		5210MHz	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5150	50.39	-3.63	46.76	68.2	-21.44	peak	H
5150	44	-3.63	40.37	54	-13.63	AVG	H
5150	49.99	-3.63	46.36	68.2	-21.84	peak	V
5150	45.87	-3.63	42.24	54	-11.76	AVG	V
5350	49.5	-3.59	45.91	68.2	-22.29	peak	H
5350	45.43	-3.59	41.84	54	-12.16	AVG	H
5350	51.27	-3.59	47.68	68.2	-20.52	peak	V
5350	43.38	-3.59	39.79	54	-14.21	AVG	V

Worse case mode:		802.11ac(VHT80)		Test Frequency:		5610MHz	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5460	48.5	-3.54	44.96	68.2	-23.24	peak	H
5460	43.66	-3.54	40.12	54	-13.88	AVG	H
5460	51	-3.54	47.46	68.2	-20.74	peak	V
5460	45.49	-3.54	41.95	54	-12.05	AVG	V
5725	50.14	-3.45	46.69	68.2	-21.51	peak	H
5725	44.21	-3.45	40.76	54	-13.24	AVG	H
5725	48.5	-3.45	45.05	68.2	-23.15	peak	V
5725	44.32	-3.45	40.87	54	-13.13	AVG	V

7.7 Radiated Emission

Test Requirement:	FCC Part15 E Section 15.407 and 205, 209 RSS-Gen 8.9 & 8.10, RSS-247 section 6																												
Test Method:	ANSI C63.10:2013 & RSS-Gen																												
Test Frequency Range:	9kHz to 40GHz																												
Test site:	Measurement Distance: 3m (Semi-Anechoic Chamber)																												
Receiver setup:	Frequency	Detector	RBW	VBW	Value																								
	9kHz-150KHz	Quasi-peak	200Hz	1kHz	Quasi-peak Value																								
	150kHz-30MHz	Quasi-peak	9kHz	30kHz	Quasi-peak Value																								
	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak Value																								
	Above 1GHz	Peak	1MHz	3MHz	Peak Value																								
		AV	1MHz	3MHz	Average Value																								
FCC Limit:	<table><tr><th>Frequency (MHz)</th><th>Field strength (microvolts/meter)</th><th>Measurement distance (meters)</th></tr><tr><td>0.009-0.490</td><td>2400/F(kHz)</td><td>300</td></tr><tr><td>0.490-1.705</td><td>24000/F(kHz)</td><td>30</td></tr><tr><td>1.705-30.0</td><td>30</td><td>30</td></tr><tr><td>30-88</td><td>100**</td><td>3</td></tr><tr><td>88-216</td><td>150**</td><td>3</td></tr><tr><td>216-960</td><td>200**</td><td>3</td></tr><tr><td>Above 960</td><td>500</td><td>3</td></tr></table>					Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)	0.009-0.490	2400/F(kHz)	300	0.490-1.705	24000/F(kHz)	30	1.705-30.0	30	30	30-88	100**	3	88-216	150**	3	216-960	200**	3	Above 960	500	3
	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)																										
	0.009-0.490	2400/F(kHz)	300																										
	0.490-1.705	24000/F(kHz)	30																										
	1.705-30.0	30	30																										
	30-88	100**	3																										
	88-216	150**	3																										
	216-960	200**	3																										
	Above 960	500	3																										
	The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.																												
IC Limit:	Table 5 – General field strength limits at frequencies above 30 MHz																												
	<table><tr><th>Frequency (MHz)</th><th>Field strength (µV/m at 3 m)</th></tr><tr><td>30 – 88</td><td>100</td></tr><tr><td>88 – 216</td><td>150</td></tr><tr><td>216 – 960</td><td>200</td></tr><tr><td>Above 960</td><td>500</td></tr></table>					Frequency (MHz)	Field strength (µV/m at 3 m)	30 – 88	100	88 – 216	150	216 – 960	200	Above 960	500														
	Frequency (MHz)	Field strength (µV/m at 3 m)																											
	30 – 88	100																											
	88 – 216	150																											
	216 – 960	200																											
	Above 960	500																											
	Table 6 – General field strength limits at frequencies below 30 MHz																												
	<table><tr><th>Frequency</th><th>Magnetic field strength (H-Field) (µA/m)</th><th>Measurement distance (m)</th></tr><tr><td>9 - 490 kHz ¹</td><td>6.37/F (F in kHz)</td><td>300</td></tr><tr><td>490 - 1705 kHz</td><td>63.7/F (F in kHz)</td><td>30</td></tr><tr><td>1.705 - 30 MHz</td><td>0.08</td><td>30</td></tr></table>					Frequency	Magnetic field strength (H-Field) (µA/m)	Measurement distance (m)	9 - 490 kHz ¹	6.37/F (F in kHz)	300	490 - 1705 kHz	63.7/F (F in kHz)	30	1.705 - 30 MHz	0.08	30												
	Frequency	Magnetic field strength (H-Field) (µA/m)	Measurement distance (m)																										
9 - 490 kHz ¹	6.37/F (F in kHz)	300																											
490 - 1705 kHz	63.7/F (F in kHz)	30																											
1.705 - 30 MHz	0.08	30																											
Note 1: The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.																													
Test Procedure:	Substitution method was performed to determine the actual ERP emission levels of the EUT.																												
	The following test procedure as below: 1>.Below 1GHz test procedure: 1. The EUT was placed on the top of a rotating table (0.8m for below																												

	1GHz and 1.5 meters for above 1GHz) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. - The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. - The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. - For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. - The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. - If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. 2>.Above 1GHz test procedure: - On the test site as test setup graph above,the EUT shall be placed at the 0.8m support on the turntable and in the position closest to normal use as declared by the provider. - The test antenna shall be oriented initially for vertical polarization and shall be chosen to correspond to the frequency of the transmitter.The output of the test antenna shall be connected to the measuring receiver. - The transmitter shall be switched on, if possible, without modulation and the measuring receiver shall be tuned to the frequency of the transmitter under test. - The test antenna shall be raised and lowered from 1m to 4m until a maximum signal level is detected by the measuring receiver. Then the turntable should be rotated through 360° in the horizontal plane, until the maximum signal level is detected by the measuring receiver. - Repeat step 4 for test frequency with the test antenna polarized horizontally. - Remove the transmitter and replace it with a substitution antenna - Feed the substitution antenna at the transmitter end with a signal generator connected to the antenna by means of a nonradiating cable. With the antennas at both ends vertically polarized, and with the signal generator tuned to a particular test frequency, raise and lower the test antenna to obtain a maximum reading at the spectrum analyzer. Adjust the level of the signal generator output until the previously recorded maximum reading for this set of conditions is obtained. This should be done carefully repeating the adjustment of the test antenna and generator output. - Repeat step 7 with both antennas horizontally polarized for each test frequency. - Calculate power in dBm into a reference ideal half-wave dipole antenna by reducing the readings obtained in steps 7 and 8 by the power loss in the cable between the generator and the antenna, and further corrected for the gain of the substitution antenna used relative
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	to an ideal half-wave dipole antenna by the following formula: $EIRP(dBm) = P_g(dBm) - \text{cable loss (dB)} + \text{antenna gain (dBi)}$ where: P_g is the generator output power into the substitution antenna.					
Test setup:	For radiated emissions from 9kHz to 30MHz  For radiated emissions from 30MHz to 1GHz  For radiated emissions above 1GHz 					
Test Instruments:	Refer to section 6.0 for details					
Test mode:	Refer to section 5.2 for details					
Test environment:	Temp.:	25 °C	Humid.:	52%	Press.:	1012mbar
Test voltage:	AC 120V, 60Hz					
Test results:	Pass					

Measurement Data:

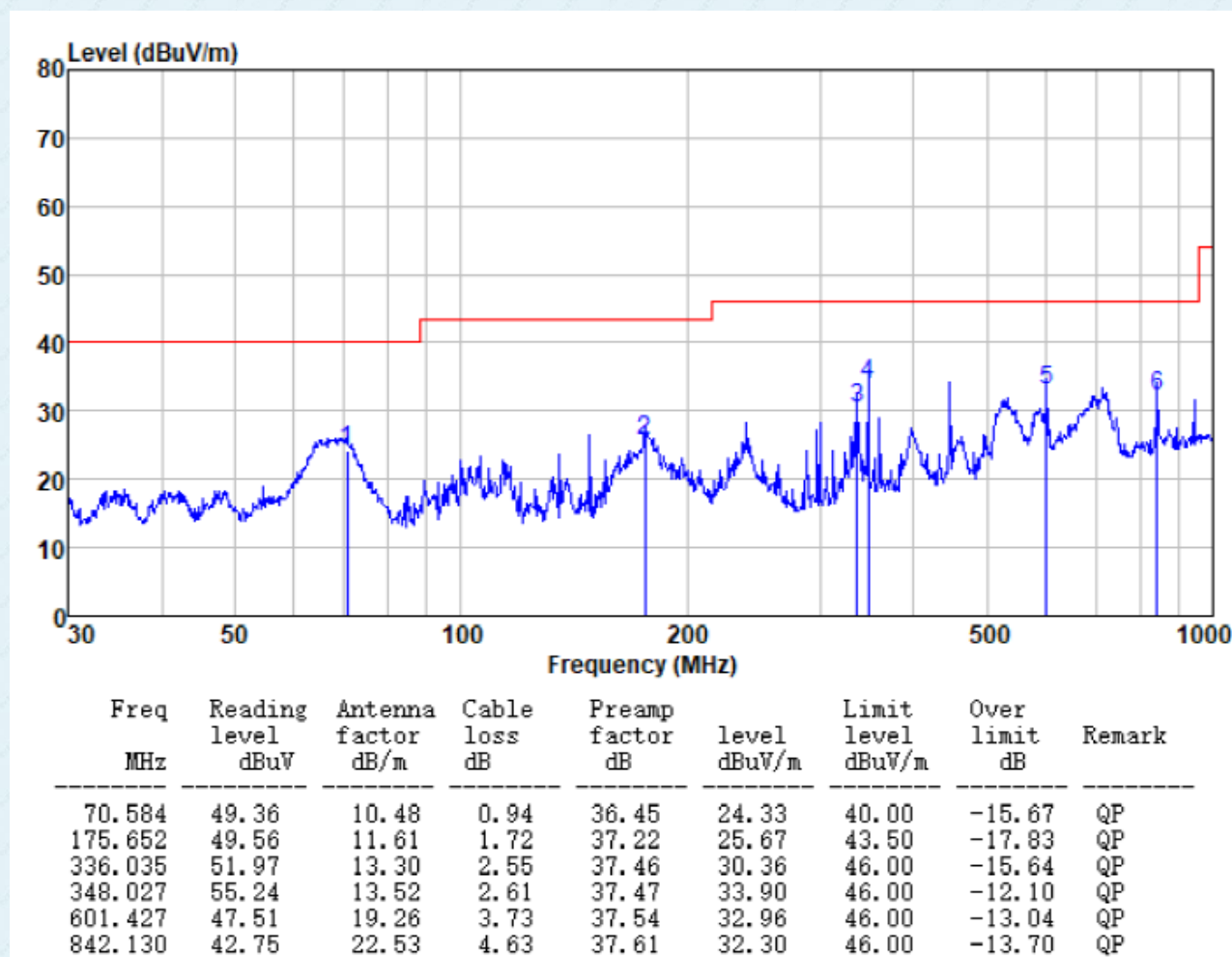
9 kHz ~ 30 MHz

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.

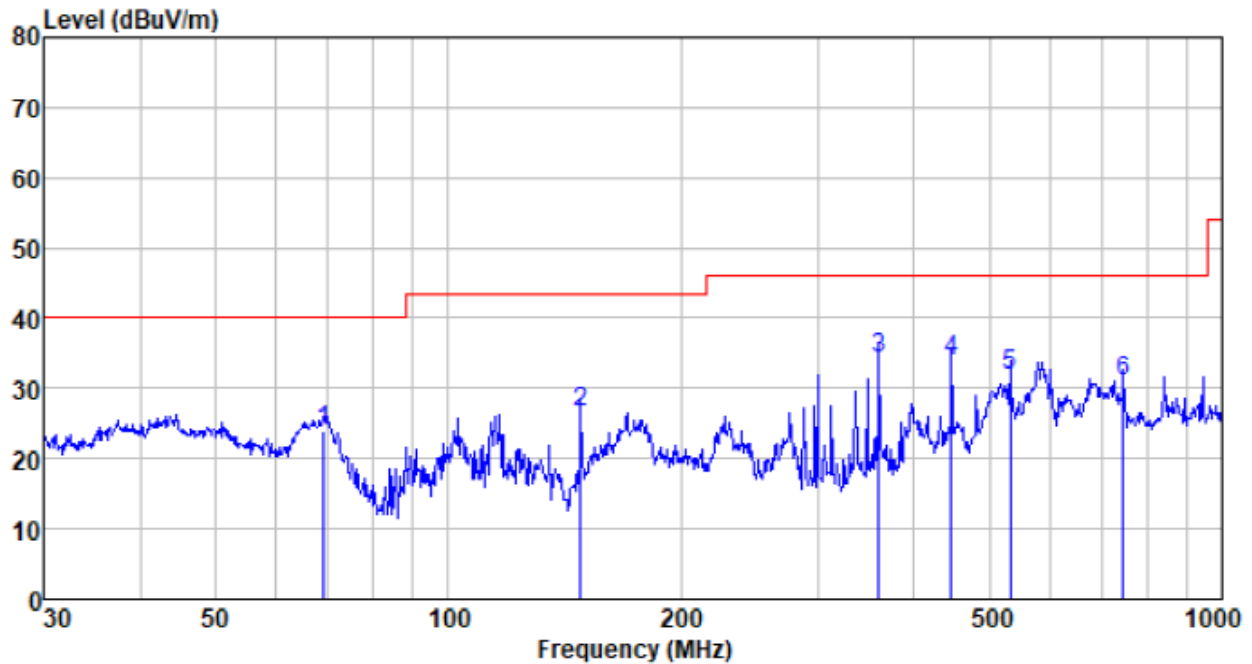
30MHz~ 1GHz

Pre-scan all test modes, found worst case at 802.11a(HT20) 5240MHz, and so only show the test result of 802.11a(HT20) 5240MHz

Horizontal:



Vertical:



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
69.114	48.80	10.75	0.93	36.43	24.05	40.00	-15.95	QP
148.441	49.37	12.69	1.56	37.07	26.55	43.50	-16.95	QP
360.448	55.19	13.82	2.67	37.48	34.20	46.00	-11.80	QP
446.414	52.36	15.91	3.07	37.52	33.82	46.00	-12.18	QP
531.964	48.47	17.41	3.45	37.52	31.81	46.00	-14.19	QP
744.866	42.83	21.43	4.26	37.63	30.89	46.00	-15.11	QP

Above 1GHz:

802.11ac(HT20)					Test Frequency: 5180MHz			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10360	27.27	38.96	8.27	35.64	38.86	68.2	-29.34	Vertical
15540	28.67	38.4	10.57	35.35	42.29	68.2	-25.91	Vertical
10360	28.73	38.96	8.27	35.64	40.32	68.2	-27.88	Horizontal
15540	27.04	38.4	10.57	35.35	40.66	68.2	-27.54	Horizontal
10360	18.42	38.96	8.27	35.64	30.01	54	-23.99	Vertical
15540	17.28	38.4	10.57	35.35	30.9	54	-23.1	Vertical
10360	18.77	38.96	8.27	35.64	30.36	54	-23.64	Horizontal
15540	22.05	38.4	10.57	35.35	35.67	54	-18.33	Horizontal

802.11ac(HT20)					Test Frequency: 5200MHz			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10400	28.9	39.01	8.29	35.67	40.53	68.2	-27.67	Vertical
15600	28.53	38.3	10.62	35.36	42.09	68.2	-26.11	Vertical
10400	24.7	39.01	8.29	35.67	36.33	68.2	-31.87	Horizontal
15600	25.84	38.3	10.62	35.36	39.4	68.2	-28.8	Horizontal
10400	20.17	39.01	8.29	35.67	31.8	54	-22.2	Vertical
15600	18.58	38.3	10.62	35.36	32.14	54	-21.86	Vertical
10400	19.04	39.01	8.29	35.67	30.67	54	-23.33	Horizontal
15600	20.06	38.3	10.62	35.36	33.62	54	-20.38	Horizontal

802.11ac(HT20)					Test Frequency: 5240MHz			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10480	29.83	39.15	8.32	35.78	41.52	68.2	-26.68	Vertical
15720	27.37	38	10.72	35.37	40.72	68.2	-27.48	Vertical
10480	29.31	39.15	8.32	35.78	41	68.2	-27.2	Horizontal
15720	28.94	38	10.72	35.37	42.29	68.2	-25.91	Horizontal
10480	19.76	39.15	8.32	35.78	31.45	54	-22.55	Vertical
15720	21.58	38	10.72	35.37	34.93	54	-19.07	Vertical
10480	17	39.15	8.32	35.78	28.69	54	-25.31	Horizontal
15720	19.12	38	10.72	35.37	32.47	54	-21.53	Horizontal

802.11ac(HT20)					Test Frequency: 5260MHz			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10520	27.1	39.2	8.34	35.82	38.82	68.2	-29.38	Vertical
15780	27.95	37.9	10.77	35.38	41.24	68.2	-26.96	Vertical
10520	27.93	39.2	8.34	35.82	39.65	68.2	-28.55	Horizontal
15780	27.94	37.9	10.77	35.38	41.23	68.2	-26.97	Horizontal
10520	17.64	39.2	8.34	35.82	29.36	54	-24.64	Vertical
15780	22.2	37.9	10.77	35.38	35.49	54	-18.51	Vertical
10520	21.73	39.2	8.34	35.82	33.45	54	-20.55	Horizontal
15780	19.4	37.9	10.77	35.38	32.69	54	-21.31	Horizontal

802.11ac(HT20)					Test Frequency: 5300MHz			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10600	28.58	39.22	8.37	35.93	40.24	68.2	-27.96	Vertical
15900	25.75	37.6	10.87	35.39	38.83	68.2	-29.37	Vertical
10600	25.11	39.22	8.37	35.93	36.77	68.2	-31.43	Horizontal
15900	24.3	37.6	10.87	35.39	37.38	68.2	-30.82	Horizontal
10600	18.6	39.22	8.37	35.93	30.26	54	-23.74	Vertical
15900	17.12	37.6	10.87	35.39	30.2	54	-23.8	Vertical
10600	17.21	39.22	8.37	35.93	28.87	54	-25.13	Horizontal
15900	18.1	37.6	10.87	35.39	31.18	54	-22.82	Horizontal

802.11ac(HT20)					Test Frequency: 5320MHz			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10640	28.22	39.22	8.38	35.96	39.86	68.2	-28.34	Vertical
15960	28.09	37.5	10.92	35.4	41.11	68.2	-27.09	Vertical
10640	28.38	39.22	8.38	35.96	40.02	68.2	-28.18	Horizontal
15960	26.04	37.5	10.92	35.4	39.06	68.2	-29.14	Horizontal
10640	19.33	39.22	8.38	35.96	30.97	54	-23.03	Vertical
15960	21.98	37.5	10.92	35.4	35	54	-19	Vertical
10640	17.13	39.22	8.38	35.96	28.77	54	-25.23	Horizontal
15960	20.31	37.5	10.92	35.4	33.33	54	-20.67	Horizontal

802.11ac(HT20)					Test Frequency: 5500MHz			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
11000	26.96	39.3	8.53	36.4	38.39	68.2	-29.81	Vertical
16500	27.9	39.3	11.06	35.87	42.39	68.2	-25.81	Vertical
11000	28.48	39.3	8.53	36.4	39.91	68.2	-28.29	Horizontal
16500	26.93	39.3	11.06	35.87	41.42	68.2	-26.78	Horizontal
11000	18.91	39.3	8.53	36.4	30.34	54	-23.66	Vertical
16500	21.43	39.3	11.06	35.87	35.92	54	-18.08	Vertical
11000	17.66	39.3	8.53	36.4	29.09	54	-24.91	Horizontal
16500	22.28	39.3	11.06	35.87	36.77	54	-17.23	Horizontal

802.11ac(HT20)					Test Frequency: 5580MHz			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
11160	26.83	39.33	8.6	36.37	38.39	68.2	-29.81	Vertical
16740	26.45	39.5	11.11	36.09	40.97	68.2	-27.23	Vertical
11160	25.13	39.33	8.6	36.37	36.69	68.2	-31.51	Horizontal
16740	27.82	39.5	11.11	36.09	42.34	68.2	-25.86	Horizontal
11160	18.7	39.33	8.6	36.37	30.26	54	-23.74	Vertical
16740	22.92	39.5	11.11	36.09	37.44	54	-16.56	Vertical
11160	17.65	39.33	8.6	36.37	29.21	54	-24.79	Horizontal
16740	22.58	39.5	11.11	36.09	37.1	54	-16.9	Horizontal

802.11ac(HT20)					Test Frequency: 5600MHz			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
11200	26.46	39.34	8.61	36.36	38.05	68.2	-30.15	Vertical
16800	26.25	39.54	11.13	36.13	40.79	68.2	-27.41	Vertical
11200	28.62	39.34	8.61	36.36	40.21	68.2	-27.99	Horizontal
16800	28.19	39.54	11.13	36.13	42.73	68.2	-25.47	Horizontal
11200	20.19	39.34	8.61	36.36	31.78	54	-22.22	Vertical
16800	21.01	39.54	11.13	36.13	35.55	54	-18.45	Vertical
11200	22.92	39.34	8.61	36.36	34.51	54	-19.49	Horizontal
16800	19.78	39.54	11.13	36.13	34.32	54	-19.68	Horizontal

802.11ac(HT20)					Test Frequency: 5700MHz			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
11400	27.26	39.38	8.7	36.32	39.02	68.2	-29.18	Vertical
17100	27.08	40.22	11.26	36.29	42.27	68.2	-25.93	Vertical
11400	28.12	39.38	8.7	36.32	39.88	68.2	-28.32	Horizontal
17100	27.03	40.22	11.26	36.29	42.22	68.2	-25.98	Horizontal
11400	19.16	39.38	8.7	36.32	30.92	54	-23.08	Vertical
17100	15.86	40.22	11.26	36.29	31.05	54	-22.95	Vertical
11400	15.01	39.38	8.7	36.32	26.77	54	-27.23	Horizontal
17100	18.55	40.22	11.26	36.29	33.74	54	-20.26	Horizontal

802.11ac(HT40)					Test Frequency: 5190MHz			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10380	28.13	39.01	8.28	35.67	39.75	68.2	-28.45	Vertical
15570	27.3	38.3	10.6	35.36	40.84	68.2	-27.36	Vertical
10380	26.99	39.01	8.28	35.67	38.61	68.2	-29.59	Horizontal
15570	26.71	38.3	10.6	35.36	40.25	68.2	-27.95	Horizontal
10380	22.92	39.01	8.28	35.67	34.54	54	-19.46	Vertical
15570	19.87	38.3	10.6	35.36	33.41	54	-20.59	Vertical
10380	21.56	39.01	8.28	35.67	33.18	54	-20.82	Horizontal
15570	20.46	38.3	10.6	35.36	34	54	-20	Horizontal

802.11ac(HT40)					Test Frequency: 5230MHz			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10460	25.91	39.11	8.31	35.75	37.58	68.2	-30.62	Vertical
15690	27.63	38.1	10.7	35.37	41.06	68.2	-27.14	Vertical
10460	27.36	39.11	8.31	35.75	39.03	68.2	-29.17	Horizontal
15690	26.76	38.1	10.7	35.37	40.19	68.2	-28.01	Horizontal
10460	22.65	39.11	8.31	35.75	34.32	54	-19.68	Vertical
15690	19.97	38.1	10.7	35.37	33.4	54	-20.6	Vertical
10460	17.38	39.11	8.31	35.75	29.05	54	-24.95	Horizontal
15690	20.32	38.1	10.7	35.37	33.75	54	-20.25	Horizontal

802.11ac(HT40)					Test Frequency: 5270MHz			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10540	28.73	39.21	8.34	35.85	40.43	68.2	-27.77	Vertical
15810	26.14	37.8	10.79	35.38	39.35	68.2	-28.85	Vertical
10540	25.36	39.21	8.34	35.85	37.06	68.2	-31.14	Horizontal
15810	28.07	37.8	10.79	35.38	41.28	68.2	-26.92	Horizontal
10540	18.61	39.21	8.34	35.85	30.31	54	-23.69	Vertical
15810	18.16	37.8	10.79	35.38	31.37	54	-22.63	Vertical
10540	18.04	39.21	8.34	35.85	29.74	54	-24.26	Horizontal
15810	19.37	37.8	10.79	35.38	32.58	54	-21.42	Horizontal

802.11ac(HT40)					Test Frequency: 5310MHz			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10620	27.39	39.22	8.38	35.93	39.06	68.2	-29.14	Vertical
15930	28.46	37.5	10.89	35.4	41.45	68.2	-26.75	Vertical
10620	26.02	39.22	8.38	35.93	37.69	68.2	-30.51	Horizontal
15930	26	37.5	10.89	35.4	38.99	68.2	-29.21	Horizontal
10620	21.91	39.22	8.38	35.93	33.58	54	-20.42	Vertical
15930	15.96	37.5	10.89	35.4	28.95	54	-25.05	Vertical
10620	21.4	39.22	8.38	35.93	33.07	54	-20.93	Horizontal
15930	16.59	37.5	10.89	35.4	29.58	54	-24.42	Horizontal

802.11ac(HT40)					Test Frequency: 5510MHz			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
11020	28.6	39.3	8.54	36.4	40.04	68.2	-28.16	Vertical
16530	26.8	39.34	11.07	35.91	41.3	68.2	-26.9	Vertical
11020	26.74	39.3	8.54	36.4	38.18	68.2	-30.02	Horizontal
16530	27.98	39.34	11.07	35.91	42.48	68.2	-25.72	Horizontal
11020	16.83	39.3	8.54	36.4	28.27	54	-25.73	Vertical
16530	15.21	39.34	11.07	35.91	29.71	54	-24.29	Vertical
11020	21.77	39.3	8.54	36.4	33.21	54	-20.79	Horizontal
16530	15.82	39.34	11.07	35.91	30.32	54	-23.68	Horizontal

802.11ac(HT40)					Test Frequency: 5550MHz			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
11100	28.13	39.32	8.57	36.38	39.64	68.2	-28.56	Vertical
16650	28.01	39.42	11.1	36	42.53	68.2	-25.67	Vertical
11100	29.69	39.32	8.57	36.38	41.2	68.2	-27	Horizontal
16650	29.41	39.42	11.1	36	43.93	68.2	-24.27	Horizontal
11100	20.78	39.32	8.57	36.38	32.29	54	-21.71	Vertical
16650	22.08	39.42	11.1	36	36.6	54	-17.4	Vertical
11100	20.2	39.32	8.57	36.38	31.71	54	-22.29	Horizontal
16650	21.21	39.42	11.1	36	35.73	54	-18.27	Horizontal

802.11ac(HT40)					Test Frequency: 5590MHz			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
11180	25.75	39.33	8.61	36.37	37.32	68.2	-30.88	Vertical
16770	27.27	39.54	11.12	36.13	41.8	68.2	-26.4	Vertical
11180	25.89	39.33	8.61	36.37	37.46	68.2	-30.74	Horizontal
16770	29.19	39.54	11.12	36.13	43.72	68.2	-24.48	Horizontal
11180	18.87	39.33	8.61	36.37	30.44	54	-23.56	Vertical
16770	17.67	39.54	11.12	36.13	32.2	54	-21.8	Vertical
11180	22.03	39.33	8.61	36.37	33.6	54	-20.4	Horizontal
16770	18.6	39.54	11.12	36.13	33.13	54	-20.87	Horizontal

802.11ac(HT40)					Test Frequency: 5670MHz			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
11340	26.31	39.37	8.67	36.33	38.02	68.2	-30.18	Vertical
17010	28.35	39.7	11.18	36.3	42.93	68.2	-25.27	Vertical
11340	28.35	39.37	8.67	36.33	40.06	68.2	-28.14	Horizontal
17010	28.06	39.7	11.18	36.3	42.64	68.2	-25.56	Horizontal
11340	17.48	39.37	8.67	36.33	29.19	54	-24.81	Vertical
17010	18.92	39.7	11.18	36.3	33.5	54	-20.5	Vertical
11340	20.06	39.37	8.67	36.33	31.77	54	-22.23	Horizontal
17010	18.67	39.7	11.18	36.3	33.25	54	-20.75	Horizontal

802.11ac(HT80)					Test Frequency: 5210MHz			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10420	26.75	39.06	8.29	35.71	38.39	68.2	-29.81	Vertical
15630	27.88	38.2	10.65	35.36	41.37	68.2	-26.83	Vertical
10420	27.23	39.06	8.29	35.71	38.87	68.2	-29.33	Horizontal
15630	28.14	38.2	10.65	35.36	41.63	68.2	-26.57	Horizontal
10420	15.72	39.06	8.29	35.71	27.36	54	-26.64	Vertical
15630	21.18	38.2	10.65	35.36	34.67	54	-19.33	Vertical
10420	17.53	39.06	8.29	35.71	29.17	54	-24.83	Horizontal
15630	20.76	38.2	10.65	35.36	34.25	54	-19.75	Horizontal

802.11ac(HT80)					Test Frequency: 5290MHz			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10580	26.38	39.21	8.36	35.89	38.06	68.2	-30.14	Vertical
15870	29.62	37.7	10.85	35.39	42.78	68.2	-25.42	Vertical
10580	26.33	39.21	8.36	35.89	38.01	68.2	-30.19	Horizontal
15870	26.61	37.7	10.85	35.39	39.77	68.2	-28.43	Horizontal
10580	17.83	39.21	8.36	35.89	29.51	54	-24.49	Vertical
15870	22.11	37.7	10.85	35.39	35.27	54	-18.73	Vertical
10580	21.29	39.21	8.36	35.89	32.97	54	-21.03	Horizontal
15870	22.57	37.7	10.85	35.39	35.73	54	-18.27	Horizontal

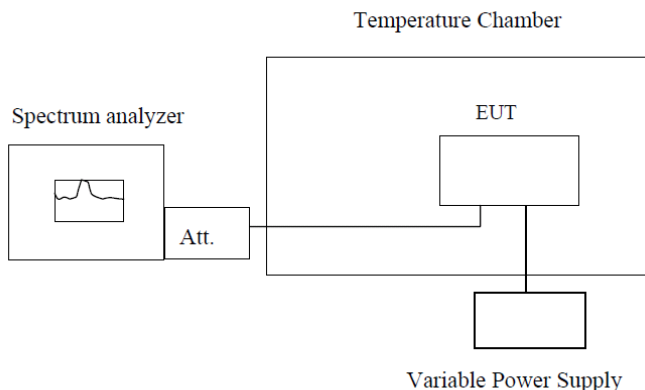
802.11ac(HT80)					Test Frequency: 5530MHz			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
11060	26.73	39.31	8.56	36.39	38.21	68.2	-29.99	Vertical
16590	28.39	39.38	11.08	35.96	42.89	68.2	-25.31	Vertical
11060	27.17	39.31	8.56	36.39	38.65	68.2	-29.55	Horizontal
16590	28.22	39.38	11.08	35.96	42.72	68.2	-25.48	Horizontal
11060	16.54	39.31	8.56	36.39	28.02	54	-25.98	Vertical
16590	15.3	39.38	11.08	35.96	29.8	54	-24.2	Vertical
11060	16.63	39.31	8.56	36.39	28.11	54	-25.89	Horizontal
16590	22.89	39.38	11.08	35.96	37.39	54	-16.61	Horizontal

802.11ac(HT80)					Test Frequency: 5610MHz			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
11220	26.38	39.34	8.62	36.36	37.98	68.2	-30.22	Vertical
16830	27.12	39.58	11.13	36.17	41.66	68.2	-26.54	Vertical
11220	26.67	39.34	8.62	36.36	38.27	68.2	-29.93	Horizontal
16830	27.61	39.58	11.13	36.17	42.15	68.2	-26.05	Horizontal
11220	22.51	39.34	8.62	36.36	34.11	54	-19.89	Vertical
16830	18.2	39.58	11.13	36.17	32.74	54	-21.26	Vertical
11220	15.57	39.34	8.62	36.36	27.17	54	-26.83	Horizontal
16830	21.61	39.58	11.13	36.17	36.15	54	-17.85	Horizontal

Notes:

1. Level = Read Level + Antenna Factor+ Cable loss- Preamplifier Factor.
2. The test trace is same as the ambient noise (the test frequency range: 18GHz~40GHz), therefore no data appear in the report.
3. all were test, only the worst data recorded in the report.

7.8 Frequency stability

Test Requirement:	FCC Part15 C Section 15.407(g) RSS-Gen 8.11
Test Method:	ANSI C63.10:2013, FCC Part 2.1055, RSS-Gen
Limit:	Manufactures of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified
Test Procedure:	The EUT was setup to ANSI C63.4, 2003; tested to 2.1055 for compliance to FCC Part 15.407(g) requirements.
Test setup:	 Note : Measurement setup for testing on Antenna connector
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

Measurement data: The detailed test data see Appendix for WIFI 5G

8 Test Setup Photo

Reference to the **appendix I** for details.

9 EUT Constructional Details

Reference to the **appendix II** for details.

---END---