

FCC REPORT

(UNII)

Applicant: Todos Industrial Limited

Address of Applicant: Room 308, building A3, Fuhai information port, Fuhai street, Bao'an District, Shenzhen City, Guangdong Province, 518000

Equipment Under Test (EUT)

Product Name: Tablet PC

Model No.: Tab1066, Tab7ii, Tab8ii, Tab10ii, TabX1, TabX2, TabX3, TabX4, TabXX (X can be any number), TabAI1

Trade mark: Aprix, Geex

FCC ID: 2AZQ6-AP1066

Applicable standards: FCC CFR Title 47 Part 15 Subpart E Section 15.407

Date of sample receipt: 08 May, 2021

Date of Test: 09 May, to 26 May, 2021

Date of report issued: 28 May, 2021

Test Result: PASS*

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

Authorized Signature:



Bruce Zhang
Laboratory Manager

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

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2 Version

Version No.	Date	Description
00	28 May, 2021	Original

Tested by: Yao Wu
Test Engineer

Date: 28 May, 2021

Reviewed by: Winner Zhang
Project Engineer

Date: 28 May, 2021

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4 Test Summary

Test Item	Section in CFR 47	Test Data	Test Result
Antenna requirement	15.203 & 15.407 (a)	See Section 6.1	Pass
AC Power Line Conducted Emission	15.207	See Section 6.2	Pass
Duty Cycle	ANSI C63.10-2013	Appendix A – 5G Wi-Fi	Pass
Conducted Peak Output Power	15.407 (a) (1) (iv) & (a) (2) & (a) (3)	Appendix A – 5G Wi-Fi	Pass
26dB Occupied Bandwidth	15.407 (a) (12)	Appendix A – 5G Wi-Fi	Pass
6dB Emission Bandwidth	15.407(e)	Appendix A – 5G Wi-Fi	Pass
Power Spectral Density	15.407 (a) (1) (iv) & (a) (2) & (a) (3)	Appendix A – 5G Wi-Fi	Pass
Band Edge	15.407(b)	See Section 6.6	Pass
Spurious Emission	15.407 (b) & 15.205 & 15.209	See Section 6.7	Pass
Frequency Stability	15.407(g)	See Section 6.8	Pass
Remark: 1. Pass: The EUT complies with the essential requirements in the standard. 2. N/A: Not Applicable. 3. The cable insertion loss used by “RF Output Power” and other conduction measurement items is 0.5dB (provided by the customer).			
Test Method:	ANSI C63.10-2013 KDB 789033 D02 General UNII Test Procedures New Rules v02r01		

5 General Information

5.1 Client Information

Applicant:	Todos Industrial Limited
Address:	Room 308, building A3, Fuhai information port, Fuhai street, Bao'an District, Shenzhen City, Guangdong Province, 518000
Manufacturer:	Todos Industrial Limited
Address:	Room 308, building A3, Fuhai information port, Fuhai street, Bao'an District, Shenzhen City, Guangdong Province, 518000

5.2 General Description of E.U.T.

Product Name:	Tablet PC		
Model No.:	Tab1066, Tab7ii, Tab8ii, Tab10ii, TabX1, TabX2, TabX3, TabX4, TabXX (X can be any number), TabAI1		
Operation Frequency:	Band 1: 5150MHz-5250MHz		
Channel numbers:	Band 1:	802.11a/802.11n20: 4	802.11n40: 2 802.11ac: 1
Channel separation:	20MHz:	802.11a/802.11n-HT20/802.11ac-HT20	
	40MHz:	802.11n-HT40/802.11ac-HT40	
	80MHz:	802.11ac-HT80	
Modulation technology (IEEE 802.11a):	BPSK, QPSK, 16-QAM, 64-QAM		
Modulation technology (IEEE 802.11n):	BPSK, QPSK, 16-QAM, 64-QAM		
Modulation technology (IEEE 802.11ac):	BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM		
Data speed (IEEE 802.11a):	6Mbps, 9Mbps,12Mbps,18Mbps, 24Mbps, 36Mbps, 48Mbps, 54Mbps		
Data speed (IEEE 802.11n20):	MCS0: 6.5Mbps, MCS1:13Mbps,MCS2:19.5Mbps, MCS3:26Mbps, MCS4:39Mbps, MCS5:52Mbps, MCS6:58.5Mbps, MCS7:65Mbps		
Data speed (IEEE 802.11n40):	MCS0:15Mbps, MCS1:30Mbps, MCS2:45Mbps, MCS3:60Mbps, MCS4:90Mbps, MCS5:120Mbps, MCS6:135Mbps, MCS7:150Mbps		
Data speed (IEEE 802.11ac):	Up to 433.3Mbps		
Antenna Type:	Internal Antenna		
Antenna gain:	1.37dBi		
Power supply:	Rechargeable Li-ion Battery DC3.8V, 6000mAh		
AC adapter:	Model: EE-0502000UZ Input: AC100-220V, 50/60Hz, 0.5A Output: DC 5.0V, 2000mA		
Remark:	Model No.: Tab1066, Tab7ii, Tab8ii, Tab10ii, TabX1, TabX2, TabX3, TabX4, TabXX, TabAI1, were identical inside, the electrical circuit design, layout, components used and internal wiring, with only difference being model name.		
Test Sample Condition:	The test samples were provided in good working order with no visible defects.		

Operation Frequency each of channel					
Band 1					
802.11a/802.11n/ac-HT20		802.11n/ac-HT40		802.11ac-HT80	
Channel	Frequency	Channel	Frequency	Channel	Frequency
36	5180MHz	38	5190MHz	42	5210MHz
40	5200MHz	46	5230MHz		
44	5220MHz				
48	5240MHz				

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:

Band 1					
802.11a/802.11n/ac-HT20		802.11n/ac-HT40		802.11ac-HT80	
Channel	Frequency	Channel	Frequency	Channel	Frequency
Lowest	5180MHz	Lowest	5190MHz	Middle	5210MHz
Middle	5200MHz	Highest	5230MHz		
Highest	5240MHz				

5.3 Test environment and mode, and test samples plans

Operating Environment:	
Temperature:	24.0 °C
Humidity:	54 % RH
Atmospheric Pressure:	1010 mbar
Test mode:	
Continuously transmitting mode	Keep the EUT in 100% duty cycle transmitting with modulation.
We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:	
Per-scan all kind of data rate, and found the follow list were the worst case.	
Mode	Data rate
802.11a	6 Mbps
802.11n/ac20	6.5 Mbps
802.11n/ac40	13.5 Mbps
802.11ac80	29.3 Mbps
Test Samples Plans:	
Samples Number	Used for Test Items
1#	Conducted measurements test method
2#	Radiated measurements test method
3#	EUT constructional details
<i>Remark: JianYan Testing Group Shenzhen Co., Ltd. is only responsible for the test project data of the above samples, and will keep the above samples for a month.</i>	

5.4 Description of Support Units

Manufacturer	Description	Model	Serial Number	FCC ID/DoC
The EUT has been tested as an independent unit.				

5.5 Measurement Uncertainty

Parameters	Expanded Uncertainty
Conducted Emission (9kHz ~ 30MHz)	±1.60 dB (k=2)
Radiated Emission (9kHz ~ 30MHz)	±3.12 dB (k=2)
Radiated Emission (30MHz ~ 1000MHz)	±4.32 dB (k=2)
Radiated Emission (1GHz ~ 18GHz)	±5.16 dB (k=2)
Radiated Emission (18GHz ~ 40GHz)	±3.20 dB (k=2)

5.6 Additions to, deviations, or exclusions from the method

No

5.7 Related Submittal(s) / Grant (s)

This is an original grant, no related submittals and grants.
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5.8 Laboratory Facility

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

- **FCC - Designation No.: CN1211**

JianYan Testing Group Shenzhen Co., Ltd. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Registration No. is 727551.

- **ISED – CAB identifier.: CN0021**

The 3m Semi-anechoic chamber of JianYan Testing Group Shenzhen Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

- **A2LA - Registration No.: 4346.01**

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: <https://portal.a2la.org/scopepdf/4346-01.pdf>

5.9 Laboratory Location

JianYan Testing Group Shenzhen Co., Ltd.

Address: No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China.

Tel: +86-755-23118282, Fax: +86-755-23116366

Email: info@ccis-cb.com, Website: <http://www.ccis-cb.com>

5.10 Test Instruments list

Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
3m SAC	ETS	9m*6m*6m	966	01-19-2021	01-18-2024
BiConiLog Antenna	SCHWARZBECK	VULB9163	497	03-03-2021	03-02-2022
Biconical Antenna	SCHWARZBECK	VUBA9117	359	06-18-2020	06-17-2021
Horn Antenna	SCHWARZBECK	BBHA9120D	916	03-03-2021	03-02-2022
Horn Antenna	SCHWARZBECK	BBHA9120D	1805	06-18-2020	06-17-2021
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170582	11-18-2020	11-17-2021
EMI Test Software	AUDIX	E3	Version: 6.110919b		
Pre-amplifier	HP	8447D	2944A09358	03-03-2021	03-02-2022
Pre-amplifier	CD	PAP-1G18	11804	03-03-2021	03-02-2022
Spectrum analyzer	Rohde & Schwarz	FSP30	101454	03-03-2021	03-02-2022
Spectrum analyzer	Rohde & Schwarz	FSP40	100363	11-18-2020	11-17-2021
EMI Test Receiver	Rohde & Schwarz	ESRP7	101070	03-03-2021	03-02-2022
Spectrum Analyzer	Agilent	N9020A	MY50510123	11-18-2020	11-17-2021
Signal Generator	Rohde & Schwarz	SMX	835454/016	03-03-2021	03-02-2022
Signal Generator	R&S	SMR20	1008100050	03-03-2021	03-02-2022
RF Switch Unit	MWRFTTEST	MW200	N/A	N/A	N/A
Test Software	MWRFTTEST	MTS8200	Version: 2.0.0.0		
Cable	ZDECL	Z108-NJ-NJ-81	1608458	03-03-2021	03-02-2022
Cable	MICRO-COAX	MFR64639	K10742-5	03-03-2021	03-02-2022
Cable	SUHNER	SUCOFLEX100	58193/4PE	03-03-2021	03-02-2022
DC Power Supply	XinNuoEr	WYK-10020K	1409050110020	09-25-2020	09-24-2021
Temperature Humidity Chamber	HengPu	HPGDS-500	20140828008	11-01-2020	10-31-2021
Simulated Station	Rohde & Schwarz	CMW500	140493	07-22-2020	07-21-2021
10m SAC	ETS	RFSD-100-F/A	Q2005	03-31-2021	04-01-2024
BiConiLog Antenna	SCHWARZBECK	VULB 9168	1249	03-31-2021	04-01-2022
BiConiLog Antenna	SCHWARZBECK	VULB 9168	1250	03-31-2021	04-01-2022
EMI Test Receiver	R&S	ESR 3	102800	04-06-2021	04-07-2022
EMI Test Receiver	R&S	ESR 3	102802	04-06-2021	04-07-2022
Pre-amplifier	Bost	LNA 0920N	2016	04-06-2021	04-07-2022
Pre-amplifier	Bost	LNA 0920N	2019	04-06-2021	04-07-2022
Test Software	R&S	EMC32	Version: 10.50.40		

Conducted Emission:					
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
EMI Test Receiver	Rohde & Schwarz	ESCI	101189	03-03-2021	03-02-2022
Pulse Limiter	SCHWARZBECK	OSRAM 2306	9731	03-03-2021	03-02-2022
LISN	CHASE	MN2050D	1447	03-03-2021	03-02-2022
LISN	Rohde & Schwarz	ESH3-Z5	8438621/010	06-18-2020	06-17-2021
Cable	HP	10503A	N/A	03-03-2021	03-02-2022
EMI Test Software	AUDIX	E3	Version: 6.110919b		

Conducted method:					
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
Spectrum Analyzer	Keysight	N9010B	MY60240202	11-27-2020	11-26-2021
Vector Signal Generator	Keysight	N5182B	MY59101009	11-27-2020	11-26-2021
Analog Signal Generator	Keysight	N5173B	MY59100765	11-27-2020	11-26-2021
Power Detector Box	MWRF-test	MW100-PSB	MW201020JYT	11-27-2020	11-26-2021
Simulated Station	Rohde & Schwarz	CMW270	102335	11-27-2020	11-26-2021

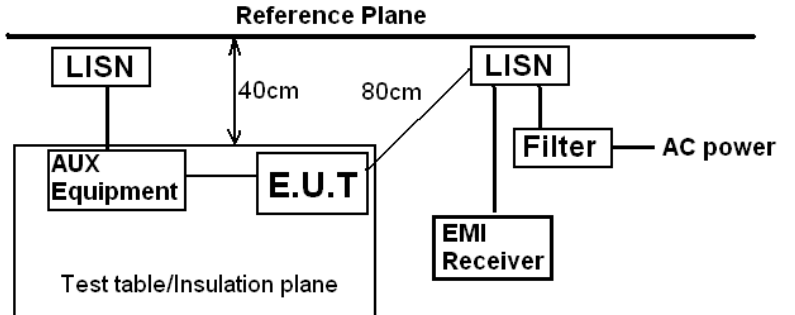
RF Control Box	MWRF-test	MW100-RFCB	MW200927JYT	N/A	N/A
PDU	MWRF-test	XY-G10	N/A	N/A	N/A
Test Software	MWRF-tes	MTS 8310	Version: 2.0.0.0		
DC Power Supply	Keysight	E3642A	MY60296194	11-27-2020	11-26-2021

6 Test results and Measurement Data

6.1 Antenna requirement

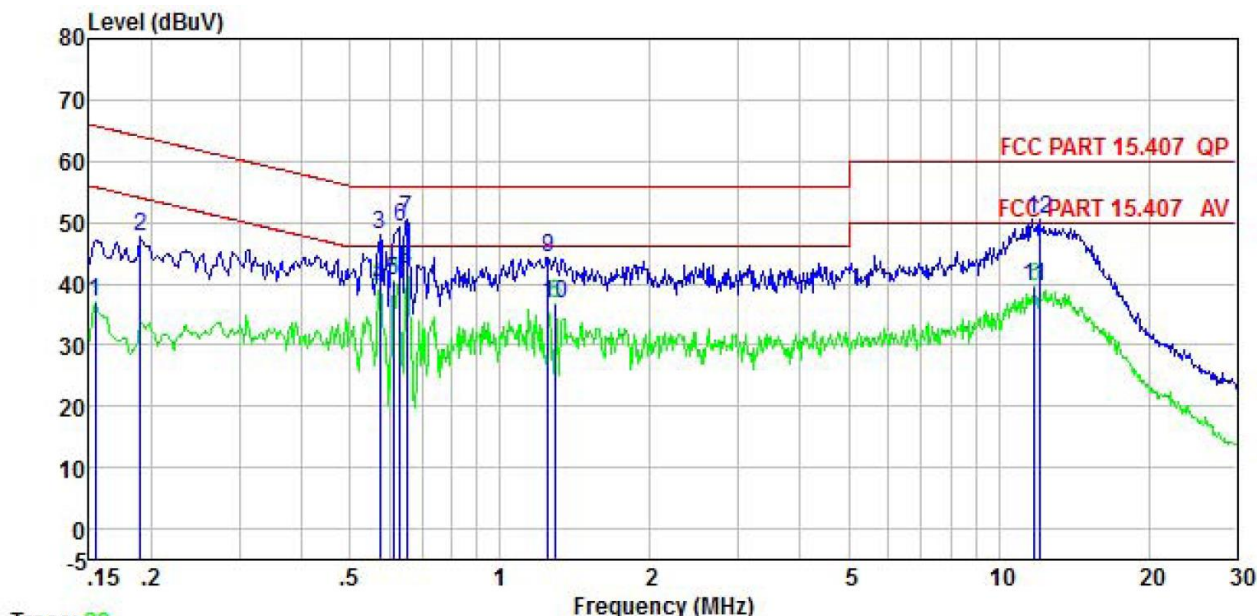
Standard requirement:	FCC Part15 E Section 15.203 /407(a)
15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique 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. This requirement does not apply to carrier current devices or to devices operated under the provisions of §15.211, § 15.213, § 15.217, § 15.219, or § 15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.	
E.U.T Antenna:	
The Wi-Fi antenna is an Internal antenna which cannot replace by end-user, the best case gain of the antenna is 1.37 dBi.	

6.2 Conducted Emission

Test Requirement:	FCC Part15 C Section 15.207		
Test Frequency Range:	150kHz to 30MHz		
Class / Severity:	Class B		
Receiver setup:	RBW=9kHz, VBW=30kHz		
Limit:	Frequency range (MHz)	Limit (dBUV)	
		Quasi-peak	
	0.15-0.5	66 to 56*	0.15-0.5
	0.5-5	56	0.5-5
	5-30	60	5-30
* 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.). It provides a 50ohm/50uH coupling impedance for the measuring equipment. - The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). - Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10(latest version) on conducted measurement.		
Test setup:	 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 5.3 for details.		
Test results:	Passed		

Measurement Data:

Product name:	Tablet PC	Product model:	Tab1066
Test by:	Mike	Test mode:	5G Wi-Fi Tx mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Line
Test voltage:	AC 120 V/60 Hz	Environment:	Temp: 22.5℃ Humi: 55%



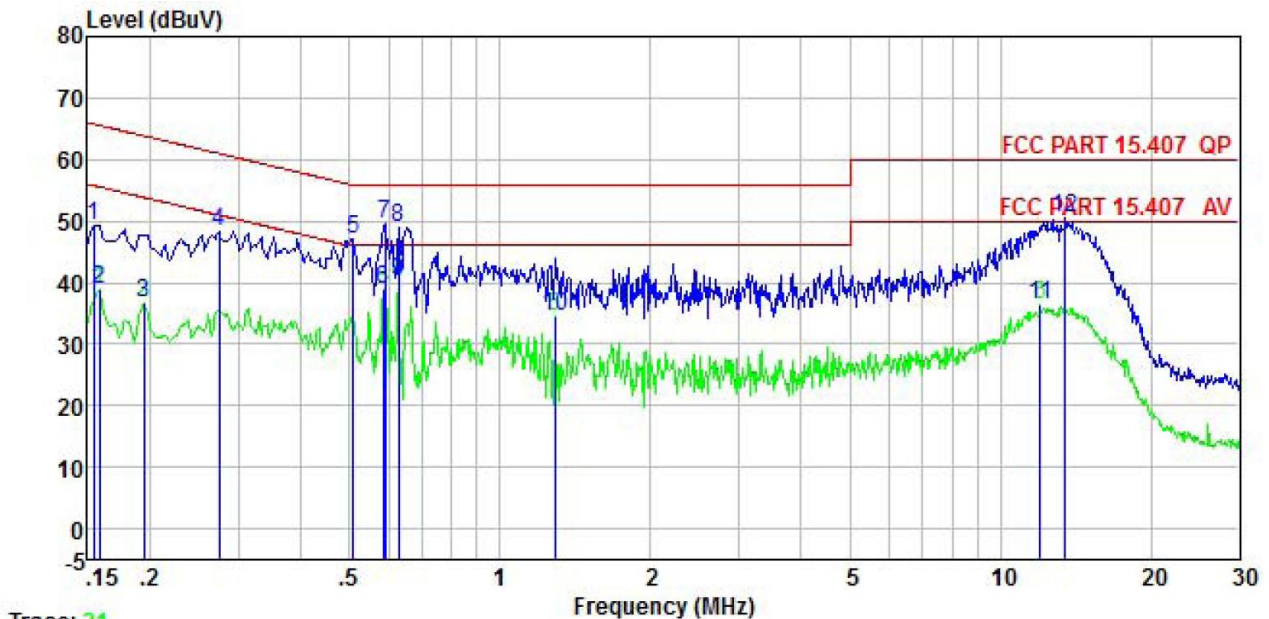
Trace: 23

	Freq	Read	LISN	Aux	Cable	Level	Limit	Over	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dB	
1	0.154	26.82	10.12	-0.06	0.01	36.89	55.78	-18.89	Average
2	0.190	37.52	10.14	-0.14	0.03	47.55	64.02	-16.47	QP
3	0.573	38.04	10.37	-0.37	0.02	48.06	56.00	-7.94	QP
4	0.573	29.49	10.37	-0.37	0.02	39.51	46.00	-6.49	Average
5	0.611	30.59	10.38	-0.38	0.02	40.61	46.00	-5.39	Average
6	0.630	39.19	10.39	-0.38	0.02	49.22	56.00	-6.78	QP
7	0.651	40.49	10.39	-0.39	0.03	50.52	56.00	-5.48	QP
8	0.651	32.31	10.39	-0.39	0.03	42.34	46.00	-3.66	Average
9	1.249	33.58	10.50	0.21	0.10	44.39	56.00	-11.61	QP
10	1.296	25.90	10.50	0.17	0.11	36.68	46.00	-9.32	Average
11	11.807	25.86	10.91	2.61	0.10	39.48	50.00	-10.52	Average
12	12.060	36.84	10.93	2.71	0.10	50.58	60.00	-9.42	QP

Notes:

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

Product name:	Tablet PC	Product model:	Tab1066
Test by:	Mike	Test mode:	5G Wi-Fi Tx mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Neutral
Test voltage:	AC 120 V/60 Hz	Environment:	Temp: 22.5°C Humi: 55%



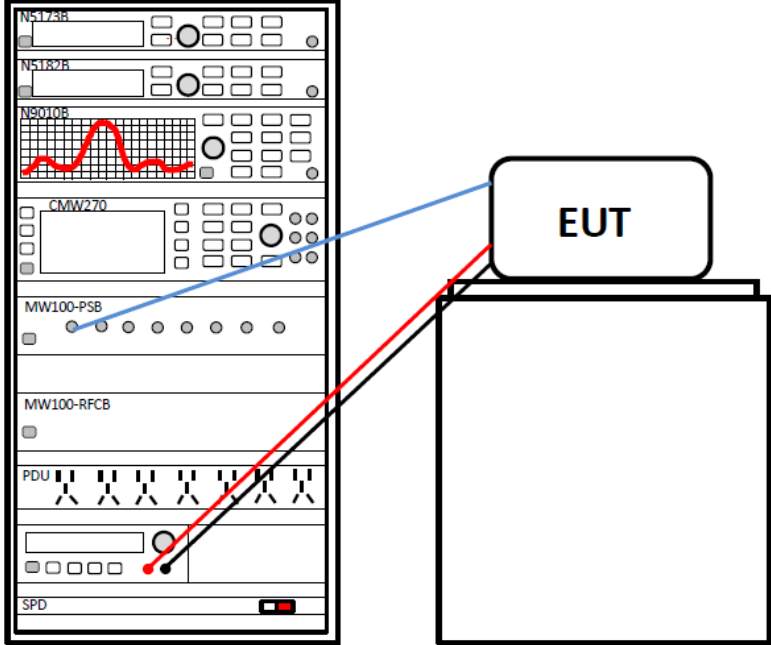
Trace: 21

	Freq	Read	LISN	Aux	Cable	Limit	Over	
	MHz	Level	Factor	Factor	Loss	Line	Limit	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dB	
1	0.154	39.35	9.89	0.01	0.01	49.26	65.78	-16.52 QP
2	0.158	28.99	9.90	0.01	0.01	38.91	55.56	-16.65 Average
3	0.194	26.68	9.92	0.00	0.03	36.63	53.84	-17.21 Average
4	0.274	38.31	9.99	0.01	0.02	48.33	60.98	-12.65 QP
5	0.510	36.86	10.21	0.03	0.03	47.13	56.00	-8.87 QP
6	0.585	28.48	10.28	0.03	0.02	38.81	46.00	-7.19 Average
7	0.589	39.35	10.28	0.03	0.02	49.68	56.00	-6.32 QP
8	0.627	38.63	10.31	0.04	0.02	49.00	56.00	-7.00 QP
9	0.627	29.95	10.31	0.04	0.02	40.32	46.00	-5.68 Average
10	1.289	23.80	10.65	0.11	0.11	34.67	46.00	-11.33 Average
11	11.996	22.79	11.30	2.16	0.10	36.35	50.00	-13.65 Average
12	13.479	36.27	11.35	2.64	0.11	50.37	60.00	-9.63 QP

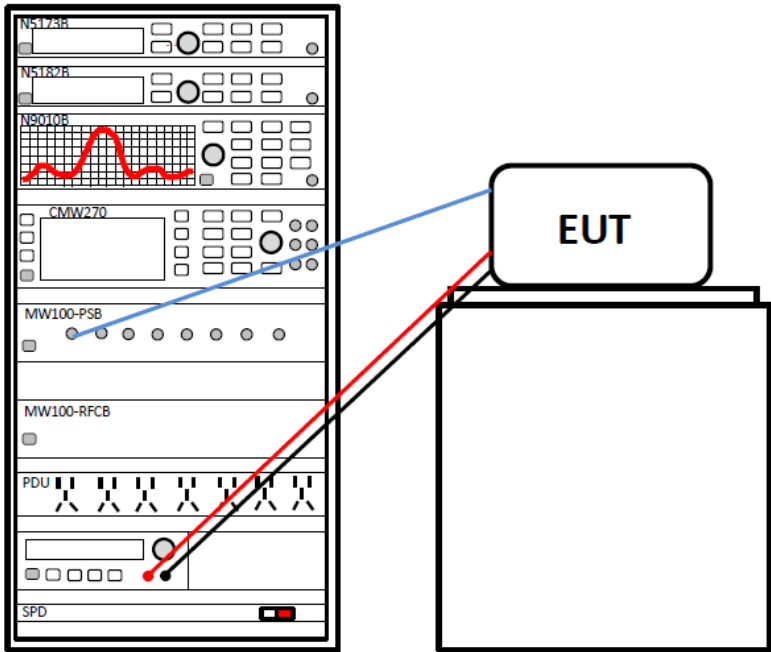
Notes:

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

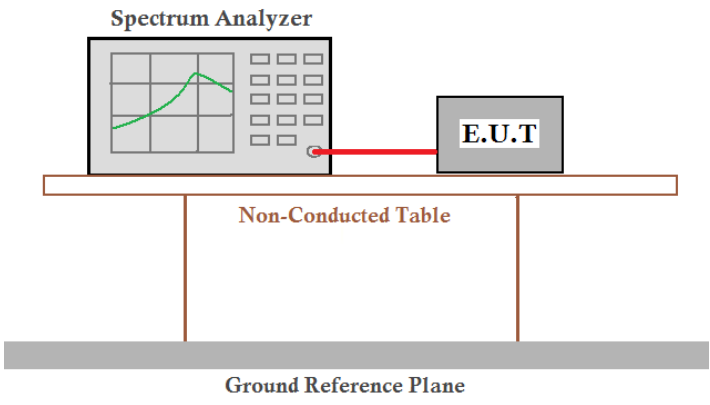
6.3 Conducted Output Power

Test Requirement:	FCC Part15 E Section 15.407 (a) (1) (iv) & (a)(2) & (a) (3)
Limit:	Band 1: 24dBm Band 2: 24dBm or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz. Band 3: 24dBm or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz. Band 4: 30dBm
Test setup:	
Test Instruments:	Refer to section 5.10 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed
Measurement Data:	Refer to Appendix A - 5G WIFI

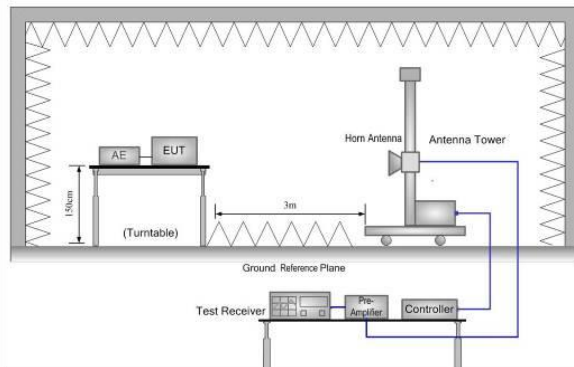
6.4 Occupy Bandwidth

Test Requirement:	FCC Part15 E Section 15.407 (a) (12) and Section 15.407 (e)
Limit:	Band 1/2/3/4: N/A (26dB Emission Bandwidth and 99% Occupy Bandwidth) Band 4: >500kHz (6dB Bandwidth)
Test setup:	
Test Instruments:	Refer to section 5.10 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed
Measurement Data:	Refer to Appendix A - 5G WIFI

6.5 Power Spectral Density

Test Requirement:	FCC Part15 E Section 15.407 (a) (1) (iv) & (a) (2) & (a)(3)
Limit:	Band 1: 11 dBm/MHz
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 two vertical legs. Below the table is a Ground Reference Plane.
Test Instruments:	Refer to section 5.10 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed
Measurement Data:	Refer to Appendix A - 5G WIFI

6.6 Band Edge

Test Requirement:	FCC Part 15 E Section 15.407 (b)			
Receiver setup:	Detector	RBW	VBW	Remark
	Quasi-peak	120kHz	300kHz	Quasi-peak Value
	RMS	1MHz	3MHz	Average Value
Limit:	Band	Limit (dBuV/m @3m)		Remark
	Band 1	68.20		Peak Value
		54.00		Average Value
	Remark:			
1. Band 1 limit: E[dBuV/m] = EIRP[dBm] + 95.2=68.2 dBuV/m, for EIPR[dBm]=-27dBm.				
Test Procedure:	1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable 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 setup:				
Test Instruments:	Refer to section 5.10 for details			
Test mode:	Refer to section 5.3 for details			
Test results:	Passed			

Measurement Data (worst case):
Band 1:

Band 1 – 802.11a						
Lowest						
Peak Value						
Frequency (MHz)	Read Level (dBuV/m)	Level (dBuV/m)	Factor (dB)	Limit Line (dBuV/m)	Margin [dB]	Polarization
5150.00	55.58	-4.52	51.06	68.20	-17.14	Horizontal
5150.00	56.26	-4.52	51.74	68.20	-16.46	Vertical
Average Value						
Frequency (MHz)	Read Level (dBuV/m)	Level (dBuV/m)	Factor (dB)	Limit Line (dBuV/m)	Margin [dB]	Polarization
5150.00	48.35	-4.52	43.83	54.00	-10.17	Horizontal
5150.00	48.29	-4.52	43.77	54.00	-10.23	Vertical
Highest						
Peak Value						
Frequency (MHz)	Read Level (dBuV/m)	Level (dBuV/m)	Factor (dB)	Limit Line (dBuV/m)	Margin [dB]	Polarization
5350.00	53.69	-2.68	51.01	68.20	-17.19	Horizontal
5350.00	53.86	-2.68	51.18	68.20	-17.02	Vertical
Average Value						
Frequency (MHz)	Read Level (dBuV/m)	Level (dBuV/m)	Factor (dB)	Limit Line (dBuV/m)	Margin [dB]	Polarization
5350.00	46.62	-2.68	43.94	54.00	-10.06	Horizontal
5350.00	46.95	-2.68	44.27	54.00	-9.73	Vertical
Remark: 1. Final Level = Receiver Read level + Factor. 2. The emission levels of other frequencies are very lower than the limit and not show in test report.						

Band 1 – 802.11n(HT20)						
Lowest						
Peak Value						
Frequency (MHz)	Read Level (dBuV/m)	Level (dBuV/m)	Factor (dB)	Limit Line (dBuV/m)	Margin [dB]	Polarization
5150.00	55.82	-4.52	51.30	68.20	-16.90	Horizontal
5150.00	55.85	-4.52	51.33	68.20	-16.87	Vertical
Average Value						
Frequency (MHz)	Read Level (dBuV/m)	Level (dBuV/m)	Factor (dB)	Limit Line (dBuV/m)	Margin [dB]	Polarization
5150.00	48.25	-4.52	43.73	54.00	-10.27	Horizontal
5150.00	48.64	-4.52	44.12	54.00	-9.88	Vertical
Highest						
Peak Value						
Frequency (MHz)	Read Level (dBuV/m)	Level (dBuV/m)	Factor (dB)	Limit Line (dBuV/m)	Margin [dB]	Polarization
5350.00	54.18	-2.68	51.50	68.20	-16.70	Horizontal
5350.00	53.60	-2.68	50.92	68.20	-17.28	Vertical
Average Value						
Frequency (MHz)	Read Level (dBuV/m)	Level (dBuV/m)	Factor (dB)	Limit Line (dBuV/m)	Margin [dB]	Polarization
5350.00	46.55	-2.68	43.87	54.00	-10.13	Horizontal
5350.00	47.27	-2.68	44.59	54.00	-9.41	Vertical
Remark: 1. Final Level = Receiver Read level + Factor. 2. The emission levels of other frequencies are very lower than the limit and not show in test report.						

Band 1 – 802.11n(HT40)						
Lowest						
Peak Value						
Frequency (MHz)	Read Level (dBuV/m)	Level (dBuV/m)	Factor (dB)	Limit Line (dBuV/m)	Margin [dB]	Polarization
5150.00	56.57	-4.52	52.05	68.20	-16.15	Horizontal
5150.00	54.88	-4.52	50.36	68.20	-17.84	Vertical
Average Value						
Frequency (MHz)	Read Level (dBuV/m)	Level (dBuV/m)	Factor (dB)	Limit Line (dBuV/m)	Margin [dB]	Polarization
5150.00	47.84	-4.52	43.32	54.00	-10.68	Horizontal
5150.00	48.68	-4.52	44.16	54.00	-9.84	Vertical
Highest						
Peak Value						
Frequency (MHz)	Read Level (dBuV/m)	Level (dBuV/m)	Factor (dB)	Limit Line (dBuV/m)	Margin [dB]	Polarization
5350.00	54.99	-2.68	52.31	68.20	-15.89	Horizontal
5350.00	55.08	-2.68	52.40	68.20	-15.80	Vertical
Average Value						
Frequency (MHz)	Read Level (dBuV/m)	Level (dBuV/m)	Factor (dB)	Limit Line (dBuV/m)	Margin [dB]	Polarization
5350.00	47.03	-2.68	44.35	54.00	-9.65	Horizontal
5350.00	47.23	-2.68	44.55	54.00	-9.45	Vertical
Remark: 1. Final Level = Receiver Read level + Factor. 2. The emission levels of other frequencies are very lower than the limit and not show in test report.						

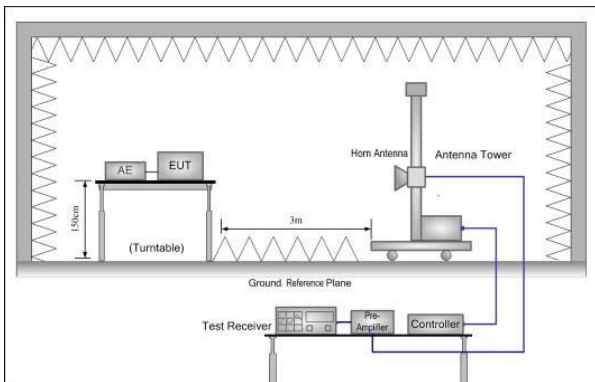
Band 1 – 802.11ac(HT20)						
Lowest						
Peak Value						
Frequency (MHz)	Read Level (dBuV/m)	Level (dBuV/m)	Factor (dB)	Limit Line (dBuV/m)	Margin [dB]	Polarization
5150.00	54.00	-4.52	49.48	68.20	-18.72	Horizontal
5150.00	54.23	-4.52	49.71	68.20	-18.49	Vertical
Average Value						
Frequency (MHz)	Read Level (dBuV/m)	Level (dBuV/m)	Factor (dB)	Limit Line (dBuV/m)	Margin [dB]	Polarization
5150.00	47.42	-4.52	42.90	54.00	-11.10	Horizontal
5150.00	47.40	-4.52	42.88	54.00	-11.12	Vertical
Highest						
Peak Value						
Frequency (MHz)	Read Level (dBuV/m)	Level (dBuV/m)	Factor (dB)	Limit Line (dBuV/m)	Margin [dB]	Polarization
5350.00	53.71	-2.68	51.03	68.20	-17.17	Horizontal
5350.00	53.81	-2.68	51.13	68.20	-17.07	Vertical
Average Value						
Frequency (MHz)	Read Level (dBuV/m)	Level (dBuV/m)	Factor (dB)	Limit Line (dBuV/m)	Margin [dB]	Polarization
5350.00	46.96	-2.68	44.28	54.00	-9.72	Horizontal
5350.00	47.23	-2.68	44.55	54.00	-9.45	Vertical
Remark: 1. Final Level = Receiver Read level + Factor. 2. The emission levels of other frequencies are very lower than the limit and not show in test report.						

Band 1 – 802.11ac(HT40)						
Lowest						
Peak Value						
Frequency (MHz)	Read Level (dBuV/m)	Level (dBuV/m)	Factor (dB)	Limit Line (dBuV/m)	Margin [dB]	Polarization
5150.00	57.02	-4.52	52.50	68.20	-15.70	Horizontal
5150.00	54.85	-4.52	50.33	68.20	-17.87	Vertical
Average Value						
Frequency (MHz)	Read Level (dBuV/m)	Level (dBuV/m)	Factor (dB)	Limit Line (dBuV/m)	Margin [dB]	Polarization
5150.00	47.57	-4.52	43.05	54.00	-10.95	Horizontal
5150.00	48.69	-4.52	44.17	54.00	-9.83	Vertical
Highest						
Peak Value						
Frequency (MHz)	Read Level (dBuV/m)	Level (dBuV/m)	Factor (dB)	Limit Line (dBuV/m)	Margin [dB]	Polarization
5350.00	55.37	-2.68	52.69	68.20	-15.51	Horizontal
5350.00	54.69	-2.68	52.01	68.20	-16.19	Vertical
Average Value						
Frequency (MHz)	Read Level (dBuV/m)	Level (dBuV/m)	Factor (dB)	Limit Line (dBuV/m)	Margin [dB]	Polarization
5350.00	46.83	-2.68	44.15	54.00	-9.85	Horizontal
5350.00	46.84	-2.68	44.16	54.00	-9.84	Vertical
Remark: 1. Final Level = Receiver Read level + Factor. 2. The emission levels of other frequencies are very lower than the limit and not show in test report.						

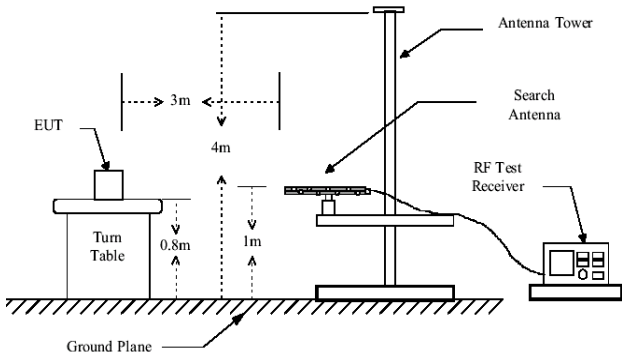
Band 1 – 802.11ac(HT80)						
Lowest						
Peak Value						
Frequency (MHz)	Read Level (dBuV/m)	Level (dBuV/m)	Factor (dB)	Limit Line (dBuV/m)	Margin [dB]	Polarization
5150.00	55.45	-4.52	50.93	68.20	-17.27	Horizontal
5150.00	56.55	-4.52	52.03	68.20	-16.17	Vertical
Average Value						
Frequency (MHz)	Read Level (dBuV/m)	Level (dBuV/m)	Factor (dB)	Limit Line (dBuV/m)	Margin [dB]	Polarization
5150.00	47.61	-4.52	43.09	54.00	-10.91	Horizontal
5150.00	48.86	-4.52	44.34	54.00	-9.66	Vertical
Highest						
Peak Value						
Frequency (MHz)	Read Level (dBuV/m)	Level (dBuV/m)	Factor (dB)	Limit Line (dBuV/m)	Margin [dB]	Polarization
5350.00	54.20	-2.68	51.52	68.20	-16.68	Horizontal
5350.00	55.43	-2.68	52.75	68.20	-15.45	Vertical
Average Value						
Frequency (MHz)	Read Level (dBuV/m)	Level (dBuV/m)	Factor (dB)	Limit Line (dBuV/m)	Margin [dB]	Polarization
5350.00	47.48	-2.68	44.80	54.00	-9.20	Horizontal
5350.00	47.29	-2.68	44.61	54.00	-9.39	Vertical
Remark: 1. Final Level = Receiver Read level + Factor. 2. The emission levels of other frequencies are very lower than the limit and not show in test report.						

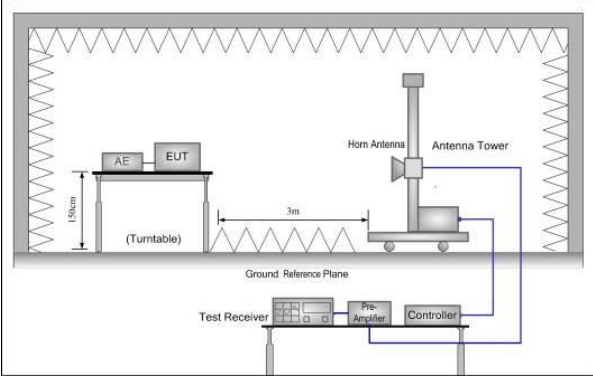
6.7 Spurious Emission

6.7.1 Restricted Band

Test Requirement:	FCC Part15 E Section 15.407(b)				
Test Frequency Range:	4.5 GHz to 5.15 GHz and 5.35GHz to 5.46GHz				
Test site:	Measurement Distance: 3m				
Receiver setup:	Frequency	Detector	RBW	VBW	Remark
	Above 1GHz	Peak	1MHz	3MHz	Peak Value
		RMS	1MHz	3MHz	Average Value
Limit:	Frequency	Limit (dBuV/m @3m)		Remark	
	Above 1GHz	74.00		Peak Value	
		54.00		Average Value	
Test Procedure:	1. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. 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 setup:					
Test Instruments:	Refer to section 5.10 for details				
Test mode:	Refer to section 5.3 for details				
Test results:	Passed(Refer to section 6.6)				

6.7.2 Unwanted Emissions out of the Restricted Bands

Test Requirement:	FCC Part15 C Section 15.209 and 15.205				
Test Frequency Range:	30MHz to 40GHz				
Test site:	Measurement Distance: 3m&10m				
Receiver setup:	Frequency	Detector	RBW	VBW	Remark
	30MHz-1GHz	Quasi-peak	100kHz	300kHz	Quasi-peak Value
	Above 1GHz	Peak	1MHz	3MHz	Peak Value
		RMS	1MHz	3MHz	Average Value
Limit:	Frequency		Limit (dBuV/m @10m)		Remark
	30MHz-88MHz		30.0		Quasi-peak Value
	88MHz-216MHz		33.5		Quasi-peak Value
	216MHz-960MHz		36.0		Quasi-peak Value
	960MHz-1GHz		44.0		Quasi-peak Value
	Frequency		Limit (dBuV/m @3m)		Remark
	Above 1GHz		68.20		Peak Value
			54.00		Average Value
	Remark:				
	Above 1GHz limit:				
$E[dB\mu V/m] = EIRP[dBm] + 95.2 = 68.2 \text{ dBuV/m}$, for $EIPR[dBm] = -27dBm$.					
Test Procedure:	1. The EUT was placed on the top of a rotating table 0.8m(below 1GHz)/1.5m(above 1GHz) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. 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 setup:	Below 1GHz  Above 1GHz				

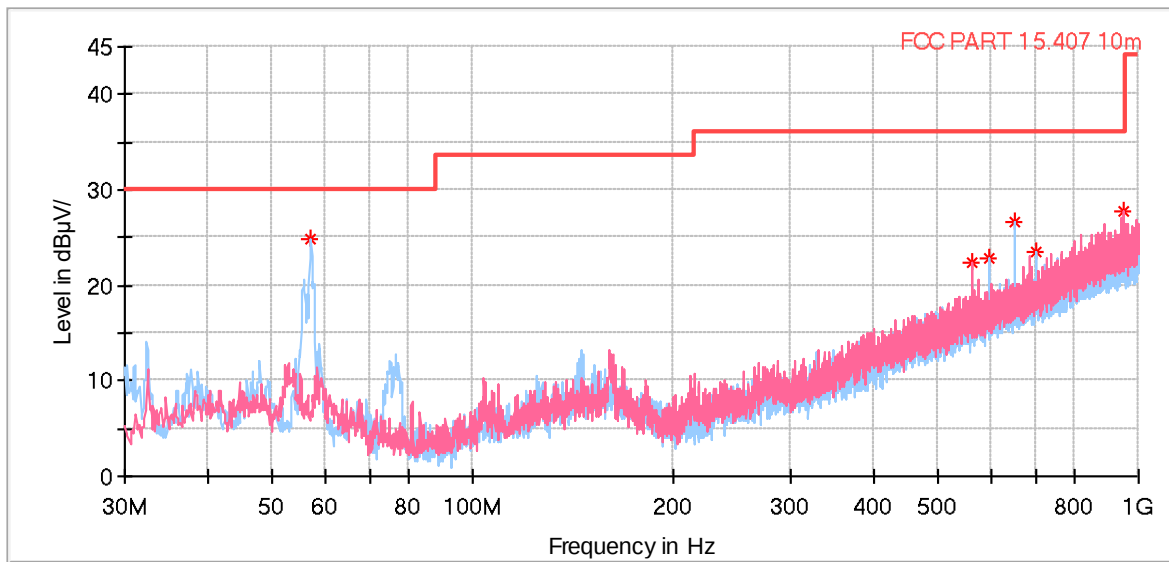
	
Test Instruments:	Refer to section 5.10 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

Measurement Data (worst case):

Below 1GHz

Product Name:	Tablet PC	Product Model:	Tab1066
Test By:	Mike	Test mode:	5G Wi-Fi Tx mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Vertical & Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Humi: 57%

Full Spectrum



Frequency ↓ (MHz)	MaxPeak ↓ (dB μV/m)	Limit ↓ (dB μV/m)	Margin ↓ (dB)	Height ↓ (cm)	Pol.	Azimuth ↓ (deg)	Corr. ↓ (dB/m)
57.063000	24.89	30.00	5.11	100.0	H	0.0	-16.5
562.530000	22.47	36.00	13.53	100.0	V	51.0	-7.5
598.032000	22.82	36.00	13.18	100.0	H	59.0	-6.6
650.024000	26.55	36.00	9.45	100.0	H	0.0	-5.8
702.016000	23.62	36.00	12.38	100.0	H	64.0	-5.1
948.590000	27.85	36.00	8.15	100.0	V	167.0	-0.1

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.
3. The Aux Factor is a notch filter switch box loss, this item is not used.

Above 1GHz:

Band 1:

Band 1 – 802.11a						
Test channel: Lowest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10360.00	50.65	11.64	62.29	68.20	-5.91	Vertical
10360.00	49.85	11.64	61.49	68.20	-6.71	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10360.00	40.95	11.64	52.59	54.00	-1.41	Vertical
10360.00	39.34	11.64	50.98	54.00	-3.02	Horizontal
Test channel: Middle channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10400.00	50.50	10.76	61.26	68.20	-6.94	Vertical
10400.00	49.61	10.76	60.37	68.20	-7.83	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10400.00	40.50	10.76	51.26	54.00	-2.74	Vertical
10400.00	39.02	10.76	49.78	54.00	-4.22	Horizontal
Test channel: Highest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10480.00	50.46	11.81	62.27	68.20	-5.93	Vertical
10480.00	49.12	11.81	60.93	68.20	-7.27	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10480.00	40.29	11.81	52.10	54.00	-1.90	Vertical
10480.00	39.01	11.81	50.82	54.00	-3.18	Horizontal
Remark: 1. Final Level = Receiver Read level + Factor. 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.						

Band 1 – 802.11n(HT20)						
Test channel: Lowest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10360.00	50.95	11.64	62.59	68.20	-5.61	Vertical
10360.00	49.60	11.64	61.24	68.20	-6.96	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10360.00	40.09	11.64	51.73	54.00	-2.27	Vertical
10360.00	38.54	11.64	50.18	54.00	-3.82	Horizontal
Test channel: Middle channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10400.00	51.27	10.76	62.03	68.20	-6.17	Vertical
10400.00	49.37	10.76	60.13	68.20	-8.07	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10400.00	40.10	10.76	50.86	54.00	-3.14	Vertical
10400.00	38.84	10.76	49.60	54.00	-4.40	Horizontal
Test channel: Highest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10480.00	51.09	11.81	62.90	68.20	-5.30	Vertical
10480.00	49.26	11.81	61.07	68.20	-7.13	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10480.00	40.54	11.81	52.35	54.00	-1.65	Vertical
10480.00	38.36	11.81	50.17	54.00	-3.83	Horizontal
Remark: 1. Final Level = Receiver Read level + Factor. 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.						

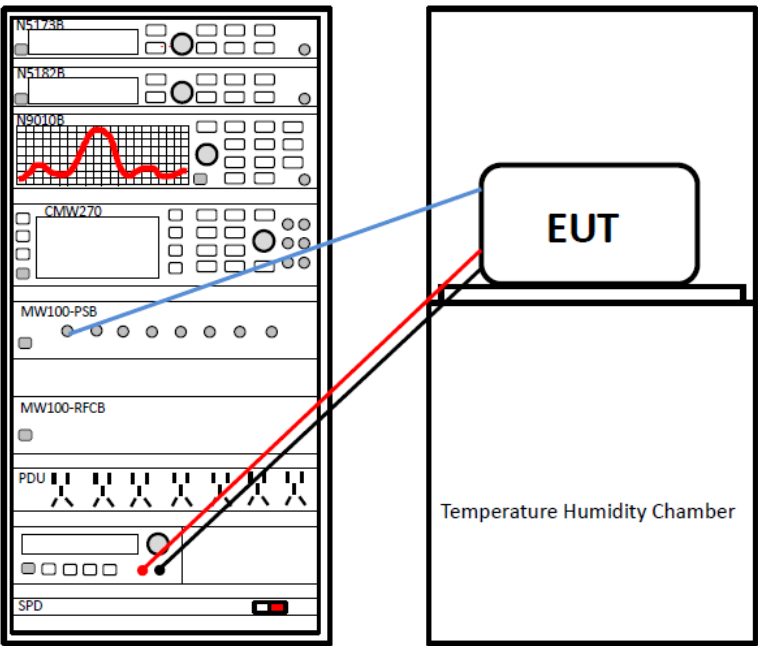
Band 1 – 802.11n(HT40)						
Test channel: Lowest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10380.00	51.39	11.20	62.59	68.20	-5.61	Vertical
10380.00	49.32	11.20	60.52	68.20	-7.68	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10380.00	40.57	11.20	51.77	54.00	-2.23	Vertical
10380.00	38.00	11.20	49.20	54.00	-4.80	Horizontal
Test channel: Highest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10460.00	50.97	11.88	62.85	68.20	-5.35	Vertical
10460.00	48.84	11.88	60.72	68.20	-7.48	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10460.00	40.35	11.88	52.23	54.00	-1.77	Vertical
10460.00	38.20	11.88	50.08	54.00	-3.92	Horizontal
Remark: 1. Final Level = Receiver Read level + Factor. 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.						

Band 1 – 802.11ac(HT20)						
Test channel: Lowest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10360.00	51.01	11.64	62.65	68.20	-5.55	Vertical
10360.00	47.84	11.64	59.48	68.20	-8.72	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10360.00	39.74	11.64	51.38	54.00	-2.62	Vertical
10360.00	38.81	11.64	50.45	54.00	-3.55	Horizontal
Test channel: Middle channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10400.00	50.63	10.76	61.39	68.20	-6.81	Vertical
10400.00	48.25	10.76	59.01	68.20	-9.19	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10400.00	39.51	10.76	50.27	54.00	-3.73	Vertical
10400.00	38.75	10.76	49.51	54.00	-4.49	Horizontal
Test channel: Highest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10480.00	50.55	11.81	62.36	68.20	-5.84	Vertical
10480.00	48.14	11.81	59.95	68.20	-8.25	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10480.00	39.51	11.81	51.32	54.00	-2.68	Vertical
10480.00	39.19	11.81	51.00	54.00	-3.00	Horizontal
Remark: 1. Final Level = Receiver Read level + Factor. 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.						

Band 1 – 802.11ac(HT40)						
Test channel: Lowest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10380.00	50.95	11.20	62.15	68.20	-6.05	Vertical
10380.00	48.21	11.20	59.41	68.20	-8.79	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10380.00	40.09	11.20	51.29	54.00	-2.71	Vertical
10380.00	38.20	11.20	49.40	54.00	-4.60	Horizontal
Test channel: Highest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10460.00	50.60	11.88	62.48	68.20	-5.72	Vertical
10460.00	48.07	11.88	59.95	68.20	-8.25	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10460.00	39.84	11.88	51.72	54.00	-2.28	Vertical
10460.00	38.54	11.88	50.42	54.00	-3.58	Horizontal
Remark: 1. Final Level = Receiver Read level + Factor. 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.						

Band 1 – 802.11ac(HT80)						
Test channel: Middle channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10420.00	50.66	11.24	61.90	68.20	-6.30	Vertical
10420.00	48.64	11.24	59.88	68.20	-8.32	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10420.00	40.09	11.24	51.33	54.00	-2.67	Vertical
10420.00	38.17	11.24	49.41	54.00	-4.59	Horizontal
Remark: 1. Final Level = Receiver Read level + Factor. 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.						

6.8 Frequency stability

Test Requirement:	FCC Part15 E Section 15.407 (g)
Limit:	Manufacturers 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 in the user's manual.
Test setup:	
Test procedure:	1. The EUT is installed in an environment test chamber with external power source. 2. Set the chamber to operate at 50 centigrade and external power source to output at nominal voltage of EUT. 3. A sufficient stabilization period at each temperature is used prior to each frequency measurement. 4. When temperature is stabled, measure the frequency stability. 5. The test shall be performed under -30 to 50 centigrade and 85 to 115 percent of the nominal voltage. Change setting of chamber and external power source to complete all conditions.
Test Instruments:	Refer to section 5.10 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

Measurement Data (the worst channel):
Band 1:
Voltage vs. Frequency Stability (Lowest channel=5180MHz)

Test conditions		Frequency(MHz)	Max. Deviation (ppm)
Temp(°C)	Voltage(dc)		
20	3.50V	5179.997481	0.49
	3.80V	5179.974669	4.89
	4.35V	5179.963812	6.98

Temperature vs. Frequency Stability (Lowest channel=5180MHz)

Test conditions		Frequency(MHz)	Max. Deviation (ppm)
Voltage(dc)	Temp(°C)		
3.80V	-20	5179.987862	2.34
	-10	5179.984715	2.95
	0	5179.968637	6.05
	10	5179.984589	2.98
	20	5179.996568	0.66
	30	5179.974348	4.95
	40	5179.963494	7.00
	50	5179.974517	4.92