

TEST REPORT

Applicant: Lightcomm Technology Co., Ltd.

Address of Applicant: UNIT 1306 13/F ARION COMMERCIAL CENTRE,2-12
QUEEN'S ROAD WEST,SHEUNG WAN HK

Manufacturer Lightcomm Technology Co., Ltd.

Address of Manufacturer UNIT 1306 13/F ARION COMMERCIAL CENTRE,2-12
QUEEN'S ROAD WEST,SHEUNG WAN HK

Factory: Huizhou Hengdu Electronics Co.,Ltd.

Address of Factory: No.8 Huitai Road, Huinan High-tech Industrial Park, Huiao
Avenue, Huizhou, Guangdong, China

Equipment Under Test (EUT)

Product Name: Car Multimedia System

Model No.: CAR136, J6CA13, DCA13W, DMCPA13W, AVM13W,
CAR106, J6CA10, CAR126, J6CA12, CVS1543-MD
XMF-CAR136

FCC ID:

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

Date of sample receipt: July 13, 2026

Date of Test: July 14, 2026-August 03, 2026

Date of report issue: August 03, 2026

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 03, 2026	Original

Tested By:

Jaeth. Gai

Date:

August 03, 2026

Test Engineer

Prepared By:

Jessie Lu

Date:

August 03, 2026

Project Engineer

Check By:

Robinson Lu

Date:

August 03, 2026

Reviewer

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4 Test Summary

Test Item	Section	Result
Antenna requirement	FCC part 15.203	PASS
AC Power Line Conducted Emission	FCC part 15.207	N/A
Emission Bandwidth	FCC part 15.407	PASS
Maximum Conducted Output Power	FCC part 15.407(a)(1)	PASS
Power Spectral Density	FCC part 15.407(a)(1)	PASS
Undesirable Emission	FCC part 15.407(b), 15.205/15.209	PASS
Radiated Emission	FCC part 15.205/15.209	PASS
Band Edge	FCC part 15.407(b)(1)	PASS
Frequency Stability	FCC part 15.407(g)	PASS

Remarks:

1. Pass: The EUT complies with the essential requirements in the standard.
2. Test according to ANSI C63.10:2020
3. N/A: Not applicable, The product is for use in a vehicle and is powered only by a battery.

4.1 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	$\pm 7.25 \times 10^{-8}$
2	Duty cycle	$\pm 0.37\%$
3	Occupied Bandwidth	$\pm 3\%$
4	RF conducted power	$\pm 0.75\text{dB}$
5	RF power density	$\pm 3\text{dB}$
6	Conducted Spurious emissions	$\pm 2.58\text{dB}$
7	AC Power Line Conducted Emission	$\pm 3.44\text{dB}$ (0.15MHz ~ 30MHz)
8	Radiated Spurious emission test	$\pm 3.1\text{dB}$ (9kHz-30MHz)
		$\pm 3.8039\text{dB}$ (30MHz-200MHz)
		$\pm 3.9679\text{dB}$ (200MHz-1GHz)
		$\pm 4.29\text{dB}$ (1GHz-18GHz)
		$\pm 3.30\text{dB}$ (18GHz-40GHz)
9	Temperature test	$\pm 1^\circ\text{C}$
10	Humidity test	$\pm 3\%$
11	Time	$\pm 3\%$

5 General Information

5.1 General Description of EUT

Product Name:	Car Multimedia System				
Model No.:	CAR136, J6CA13, DCA13W, DMCPA13W, AVM13W, CAR106, J6CA10, CAR126, J6CA12, CVS1543-MD				
Test Model No.:	CAR136				
Remark: All above models are identical in the same PCB layout, interior structure and electrical circuits. The differences are appearance color and model name for commercial purpose.					
Test sample(s) ID:	GTS2026070259-1				
Sample(s) Status:	Engineer sample				
S/N:	Z19597700000016				
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	
Modulation technology:	OFDM				
Antenna Type:	Glue stick antenna				
Antenna gain:	5.31dBi(Declared by applicant)				
Power supply:	DC 12V				

Disclaimer statement:

1. Antenna gain information provided by the customer, and the laboratory is not responsible for its authenticity.
2. The information in this section is provided by the applicant or manufacturer, GTS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

Channel list for 802.11a/n/ac(HT20)							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
36	5180MHz	40	5200MHz	44	5220MHz	48	5240MHz

Channel list for 802.11n(HT40)/ac(HT40)			
Channel	Frequency	Channel	Frequency
38	5190MHz	46	5230MHz

Channel list for 802.11ac(HT80)	
Channel	Frequency
42	5210MHz

5.2 Test mode

Transmitting mode	Keep the EUT in 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:	
Pre-scan all kind of data rate in lowest channel, and found the follow list which it was worst case.	
Mode	Data rate
802.11a/n/ac(HT20)	6/6.5 Mbps
802.11n/ac(HT40)	13.5 Mbps
802.11ac(HT80)	29.3 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. ● ISED—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 ISED 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, Baoan District, Shenzhen, Guangdong, China 518102 Tel: 0755-27798480 Fax: 0755-27798960

5.5 Description of Support Units

Manufacturer	Description	Model	Serial Number
MEILI	DC POWER SUPPLY	MCH-305A	11121168

5.6 Deviation from Standards

None.

5.7 Additional Instructions

Test Software	Special test command 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	Apr. 10, 2026	Apr. 09, 2031
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	Apr. 10, 2026	Apr. 09, 2027
4	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9168	GTS640	Apr. 11, 2026	Apr. 10, 2027
5	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120 D	GTS208	Apr. 11, 2026	Apr. 10, 2027
6	Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	GTS575	Jul 17, 2026	Jul 16, 2027
7	Loop Antenna	ZHINAN	ZN30900A	GTS534	Nov.22, 2025	Nov.21, 2026
8	Broadband Preamplifier	SCHWARZBECK	BBV9718	GTS535	Apr. 10, 2026	Apr. 09, 2027
9	Amplifier(1GHz-26.5GHz)	HP	8449B	GTS601	Apr. 10, 2026	Apr. 09, 2027
10	Horn Antenna (18GH-40GHz)	Schwarzbeck	BBHA 9170	GTS691	Apr. 11, 2026	Apr. 10, 2027
11	Spectrum analyzer (9kHz-40GHz)	Rohde & Schwarz	FSV40-N	GTS666	Mar. 10, 2026	Mar. 09, 2027
12	Amplifier	/	LNA-1000-30S	GTS650	Apr. 10, 2026	Apr. 09, 2027
13	CDNE M2+M3-16A	HCT	30MHz-300MHz	GTS692	Nov. 24, 2025	Nov. 23, 2026
14	Wideband Amplifier	/	WDA-01004000-15P35	GTS602	Apr. 10, 2026	Apr. 09, 2027
15	Thermo meter	JINCHUANG	GSP-8A	GTS643	Apr. 13, 2026	Apr. 12, 2027
16	RE cable 1	GTS	N/A	GTS675	Jul. 17, 2026	Jul. 16, 2027
17	RE cable 2	GTS	N/A	GTS676	Jul. 17, 2026	Jul. 16, 2027
18	RE cable 3	GTS	N/A	GTS677	Jul. 17, 2026	Jul. 16, 2027
19	RE cable 4	GTS	N/A	GTS678	Jul. 17, 2026	Jul. 16, 2027
20	RE cable 5	GTS	N/A	GTS679	Jul. 17, 2026	Jul. 16, 2027
21	RE cable 6	GTS	N/A	GTS680	Jul. 17, 2026	Jul. 16, 2027
22	RE cable 7	GTS	N/A	GTS681	Jul. 22, 2026	Jul. 21, 2027
23	RE cable 8	GTS	N/A	GTS682	Jul. 22, 2026	Jul. 21, 2027
24	CE cable 9	GTS	N/A	GTS683	Jul. 23, 2026	Jul. 22, 2027
25	EMI Test Software	AUDIX	E3-6.100614a	GTS725	N/A	N/A

RF Conducted Test:						
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	Wireless Connectivity Test Set	Anritsu	MT8862A	SN6272327180	Aug. 26, 2025	Aug. 25, 2026
2	Bluetooth Test Set	Anritsu	MT8852B	SN6262097212	Aug. 26, 2025	Aug. 25, 2026
3	EXA Signal Analyzer	Keysight	N9010B	MY60241168	Aug. 26, 2025	Aug. 25, 2026
4	Vector Signal Generator	Keysight	N5182B	MY61250192	Apr. 16, 2026	Apr. 15, 2027
5	Analog Signal Generator	Keysight	N5171B	MY61252573	Aug. 26, 2025	Aug. 25, 2026
6	RF Control Unit and Power Test Unit	Tonscend	JS0806-2	SN21F8060437	Apr. 16, 2026	Apr. 15, 2027
7	Power Control Unit	Tonscend	JS0806-4ADC	SN21C8060386	N/A	N/A
8	Wideband Radio Communication Tester	R&S	CWM500	GTS569	Aug. 26, 2025	Aug. 25, 2026
9	Programmable Constant Temp & Humi Test Chamber	WEWON	WHTH-150L-40-880	GTS572	Apr. 10, 2026	Apr. 09, 2027
10	Thermo meter	JINCHUANG	GSP-8A	GTS641	Apr. 14, 2026	Apr. 13, 2027
11	Test Software	Tonscend	JS1120-3 V3.5.39	N/A	N/A	N/A

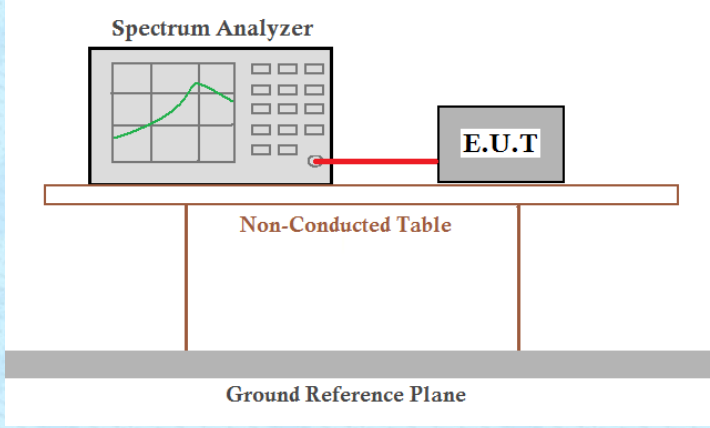
General used equipment:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	Barometer	KUMAO	SF132	GTS647	Jul. 21, 2026	Jul. 20, 2027

7 Test results and Measurement Data

7.1 Antenna requirement:

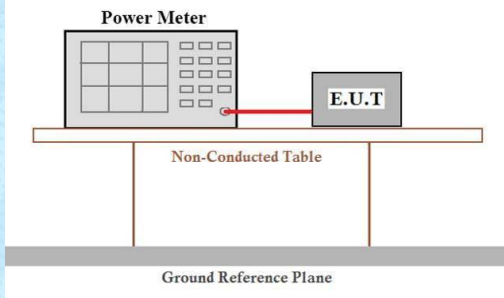
Standard requirement:	FCC Part15 C Section 15.203
15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling 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.	
E.U.T Antenna:	
The antenna is glue stick antenna, reference to the appendix II for details	

7.2 Emission Bandwidth

Test Requirement :	FCC Part15 E Section 15.407
Test Method :	ANSI C63.10:2020 & KDB 789033 D02 v02r01
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. Below the table is 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

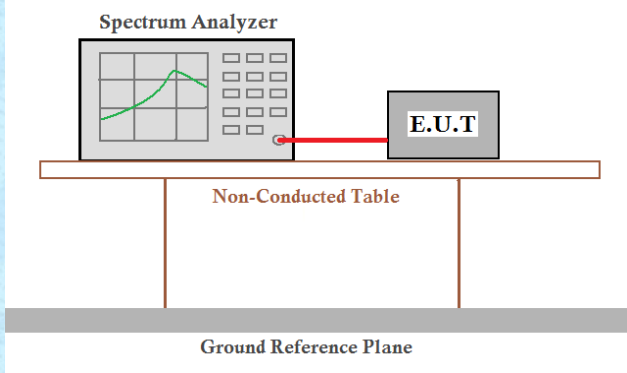
Measurement Data: The detailed test data see Appendix for UNII.

7.3 Maximum Conducted Output Power

Test Requirement	FCC Part15 E Section 15.407	
Test Method :	ANSI C63.10:2020 & KDB 789033 D02 v02r01	
Limit:	Frequency band (MHz)	Limit
	5150-5250	$\leq 1\text{W}(30\text{dBm})$ for master device
		$\leq 250\text{Mw}(23.98\text{dBm})$ for client device
	5250-5350	$\leq 250\text{Mw}(23.98\text{dBm})$ for client device or $11\text{dBm}+10\log B^*$
	5470-5725	$\leq 250\text{Mw}(23.98\text{dBm})$ for client device or $11\text{dBm}+10\log B^*$
Remark: *Where B is the 26Db emission bandwidth in MHz. The maximum conducted output power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage.		
Test setup:		
Duty Cycle set up:	RBW=VBW=8MHz	
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 UNII.

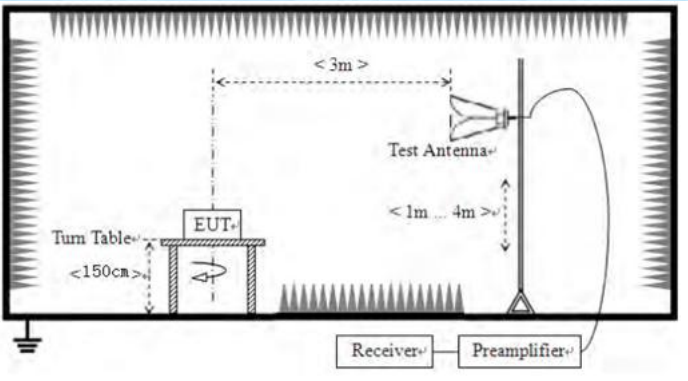
7.4 Power Spectral Density

Test Requirement:	FCC Part15 E Section 15.407	
Test Method :	ANSI C63.10:2020 & KDB 789033 D02 v02r01	
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.		
Test setup:		
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 UNII.

7.5 Band Edge

Test Requirement:	FCC Part15 E Section 15.407 and 5.205																								
Test Method:	ANSI C63.10:2020																								
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>120KHz</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	120KHz	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	120KHz	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. Final Level (dBuV/m) = Reading level (dBuV)+ Antenna Factor (dB/m) + Cable Loss (dB) – Preamp Factor (dB)
2. The emission levels of other frequencies are very lower than the limit and not show in test report.
3. The pre-test were performed on lowest, middle and highest frequencies, only the worst case's (lowest and highest frequencies) data was showed.
4. 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:

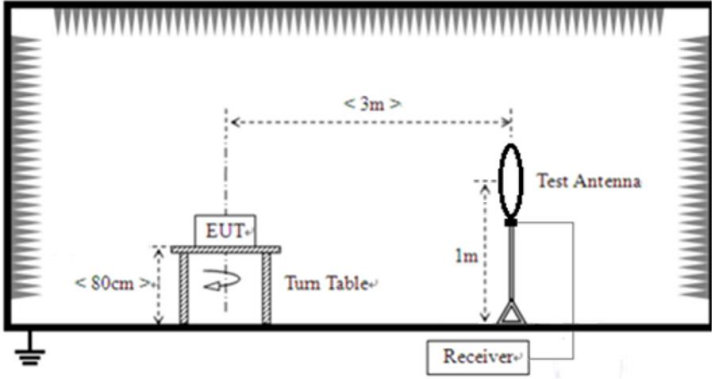
Test mode:		802.11a		Test Frequency:		5180MHz	
Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Over (dB)	Detector Type	Ant. Pol. H/V
5150	49.89	-3.63	46.26	68.20	-21.94	peak	H
5150	45.78	-3.63	42.15	54.00	-11.85	AVG	H
5150	51.82	-3.63	48.19	68.20	-20.01	peak	V
5150	45.01	-3.63	41.38	54.00	-12.62	AVG	V
Test mode:		802.11a		Test Frequency:		5240MHz	
Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Over (dB)	Detector Type	Ant. Pol. H/V
5350	48.68	-3.59	45.09	68.20	-23.11	peak	H
5350	45.26	-3.59	41.67	54.00	-12.33	AVG	H
5350	50.08	-3.59	46.49	68.20	-21.71	peak	V
5350	43.84	-3.59	40.25	54.00	-13.75	AVG	V
Test mode:		802.11n(HT20)		Test Frequency:		5180MHz	
Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Over (dB)	Detector Type	Ant. Pol. H/V
5150	49.49	-3.63	45.86	68.20	-22.34	peak	H
5150	45.89	-3.63	42.26	54.00	-11.74	AVG	H
5150	51.88	-3.63	48.25	68.20	-19.95	peak	V
5150	44.70	-3.63	41.07	54.00	-12.93	AVG	V
Test mode:		802.11n(HT20)		Test Frequency:		5240MHz	
Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Over (dB)	Detector Type	Ant. Pol. H/V
5350	48.79	-3.59	45.20	68.20	-23.00	peak	H
5350	45.28	-3.59	41.69	54.00	-12.31	AVG	H
5350	49.66	-3.59	46.07	68.20	-22.13	peak	V
5350	43.83	-3.59	40.24	54.00	-13.76	AVG	V

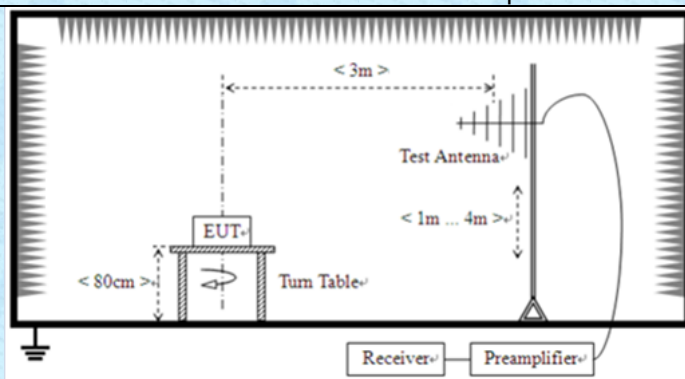
Worse case mode:		802.11n(HT40)		Test Frequency:		5190MHz	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5150	49.49	-3.63	45.86	68.20	-22.34	peak	H
5150	45.89	-3.63	42.26	54.00	-11.74	AVG	H
5150	51.87	-3.63	48.24	68.20	-19.96	peak	V
5150	44.70	-3.63	41.07	54.00	-12.93	AVG	V
Worse case mode:		802.11n(HT40)		Test Frequency:		5230MHz	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5350	48.77	-3.45	45.32	68.20	-22.88	peak	H
5350	45.27	-3.45	41.82	54.00	-12.18	AVG	H
5350	49.66	-3.45	46.21	68.20	-21.99	peak	V
5350	43.82	-3.45	40.37	54.00	-13.63	AVG	V
Worse case mode:		802.11ac(VHT20)		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	49.89	-3.63	46.26	68.20	-21.94	peak	H
5150	45.78	-3.63	42.15	54.00	-11.85	AVG	H
5150	51.81	-3.63	48.18	68.20	-20.02	peak	V
5150	45.01	-3.63	41.38	54.00	-12.62	AVG	V
Worse case mode:		802.11ac(VHT20)		Test Frequency:		5240MHz	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5350	48.68	-3.59	45.09	68.20	-23.11	peak	H
5350	45.26	-3.59	41.67	54.00	-12.33	AVG	H
5350	50.08	-3.59	46.49	68.20	-21.71	peak	V
5350	43.84	-3.59	40.25	54.00	-13.75	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	49.25	-3.63	45.62	68.20	-22.58	peak	H
5150	45.38	-3.63	41.75	54.00	-12.25	AVG	H
5150	51.53	-3.63	47.90	68.20	-20.30	peak	V
5150	44.47	-3.63	40.84	54.00	-13.16	AVG	V
Worse case mode:		802.11ac(VHT40)		Test Frequency:		5230MHz	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5350	48.32	-3.59	44.73	68.20	-23.47	peak	H
5350	44.99	-3.59	41.40	54.00	-12.60	AVG	H
5350	49.49	-3.59	45.90	68.20	-22.30	peak	V
5350	43.45	-3.59	39.86	54.00	-14.14	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	48.14	-3.63	44.51	68.20	-23.69	peak	H
5150	42.13	-3.63	38.50	54.00	-15.50	AVG	H
5150	49.56	-3.63	45.93	68.20	-22.27	peak	V
5150	42.63	-3.63	39.00	54.00	-15.00	AVG	V
5350	48.76	-3.59	45.17	68.20	-23.03	peak	H
5350	41.22	-3.59	37.63	54.00	-16.37	AVG	H
5350	50.10	-3.59	46.51	68.20	-21.69	peak	V
5350	44.09	-3.59	40.50	54.00	-13.50	AVG	V

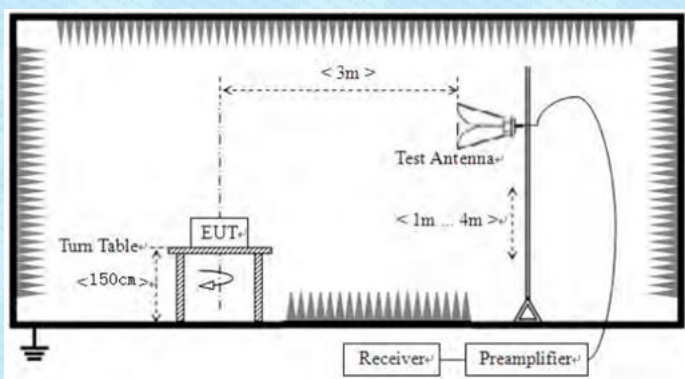
7.6 Radiated Emission

Test Requirement :	FCC Part15 C Section 15.209 and 15.205																												
Test Method :	ANSI C63.10: 2020																												
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																								
	Note: For Duty cycle ≥ 98%, average detector set as above For Duty cycle < 98%, average detector set as below: VBW ≥ 1 / T																												
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.																												
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. 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 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. 2>.Above 1GHz test procedure: 1. 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. 2. 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. 3. 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. 4. 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. 5. Repeat step 4 for test frequency with the test antenna polarized horizontally. 6. Remove the transmitter and replace it with a substitution antenna 7. 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. 8. Repeat step 7 with both antennas horizontally polarized for each test frequency. 9. 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 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:	DC 12V					
Test results:	Pass					

Remarks:

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

Measurement Data:

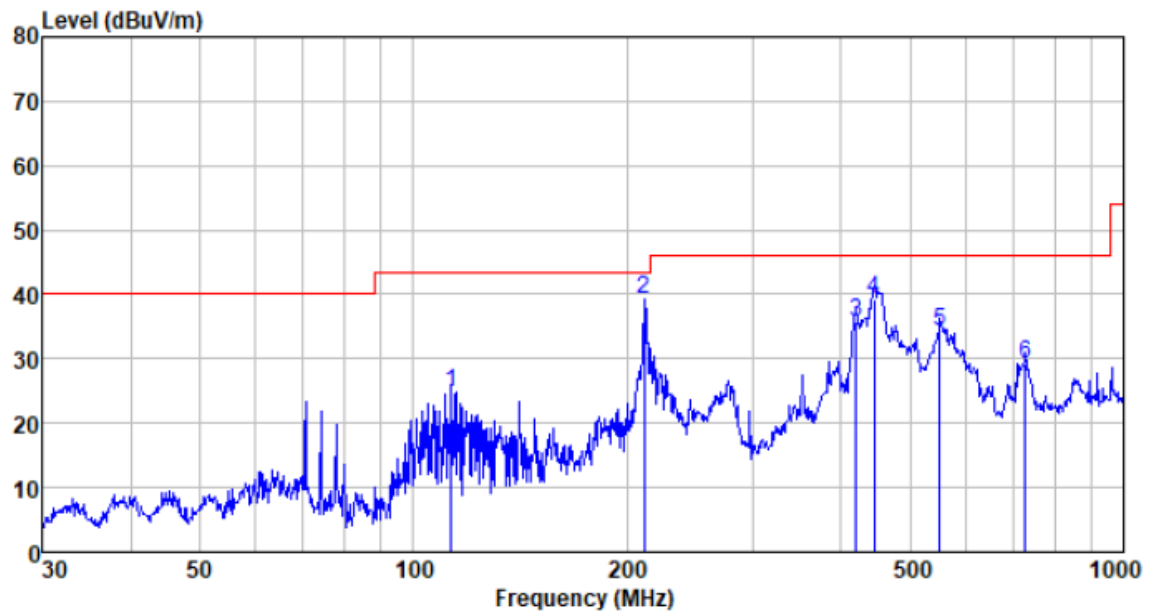
9 kHz ~ 30 MHz

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 802.11ac(HT80) 5210MHz, and so only show the test result of it.

Horizontal:

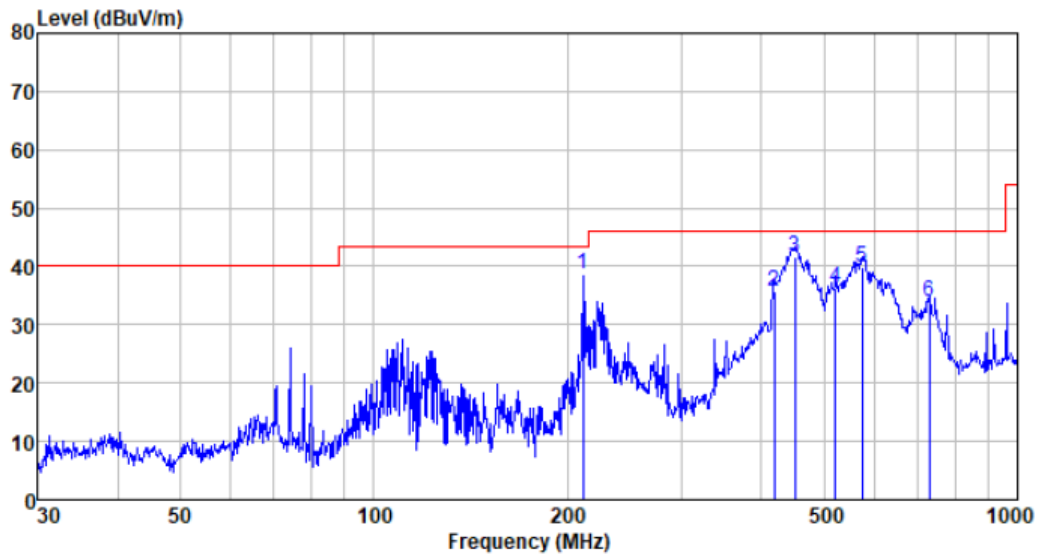


Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	Final level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
112.920	44.83	11.20	2.11	33.26	24.88	43.50	-18.62	QP
211.527	59.51	10.05	2.90	33.07	39.39	43.50	-4.11	QP
420.580	48.36	15.89	4.24	32.77	35.72	46.00	-10.28	QP
444.851	51.03	16.59	4.35	32.75	39.22	46.00	-6.78	QP
550.948	43.77	18.18	4.85	32.56	34.24	46.00	-11.76	QP
726.805	34.72	20.86	5.68	32.14	29.12	46.00	-16.88	QP

Remarks:

Final level(dBuV/m) = Reading level(dBuV) + Antenna factor(dB/m) + Cable loss(dB) - Preamp Factor(dB)

Vertical:



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	Final level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
211.527	58.69	10.05	2.90	33.07	38.57	43.50	-4.93	QP
419.108	48.56	15.85	4.23	32.77	35.87	46.00	-10.13	QP
451.135	53.21	16.65	4.38	32.74	41.50	46.00	-4.50	QP
520.888	46.79	17.47	4.69	32.64	36.31	46.00	-9.69	QP
572.614	48.67	18.60	4.95	32.50	39.72	46.00	-6.28	QP
729.358	39.65	20.81	5.69	32.14	34.01	46.00	-11.99	QP

Remarks:

Final level(dBuV/m) = Reading level(dBuV) + Antenna factor(dB/m) + Cable loss(dB) - Preamp Factor(dB)

Above 1GHz:

802.11a					Test Frequency: 5180MHz			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10360	36.09	38.96	8.27	35.64	47.68	68.20	-20.52	Vertical
15540	34.10	38.40	10.57	35.35	47.72	68.20	-20.48	Vertical
10360	35.33	38.96	8.27	35.64	46.92	68.20	-21.28	Horizontal
15540	31.67	38.40	10.57	35.35	45.29	68.20	-22.91	Horizontal
10360	28.61	38.96	8.27	35.64	40.20	54.00	-13.80	Vertical
15540	26.96	38.40	10.57	35.35	40.58	54.00	-13.42	Vertical
10360	26.38	38.96	8.27	35.64	37.97	54.00	-16.03	Horizontal
15540	26.48	38.40	10.57	35.35	40.10	54.00	-13.90	Horizontal
802.11a					Test Frequency: 5200MHz			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10400	35.99	39.01	8.29	35.67	47.62	68.20	-20.58	Vertical
15600	34.14	38.30	10.62	35.36	47.70	68.20	-20.50	Vertical
10400	35.73	39.01	8.29	35.67	47.36	68.20	-20.84	Horizontal
15600	29.79	38.30	10.62	35.36	43.35	68.20	-24.85	Horizontal
10400	29.47	39.01	8.29	35.67	41.10	54.00	-12.90	Vertical
15600	28.21	38.30	10.62	35.36	41.77	54.00	-12.23	Vertical
10400	24.81	39.01	8.29	35.67	36.44	54.00	-17.56	Horizontal
15600	25.50	38.30	10.62	35.36	39.06	54.00	-14.94	Horizontal
802.11a					Test Frequency: 5240MHz			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10480	36.62	39.15	8.32	35.78	48.31	68.20	-19.89	Vertical
15720	33.12	38.00	10.72	35.37	46.47	68.20	-21.73	Vertical
10480	33.23	39.15	8.32	35.78	44.92	68.20	-23.28	Horizontal
15720	33.31	38.00	10.72	35.37	46.66	68.20	-21.54	Horizontal
10480	27.26	39.15	8.32	35.78	38.95	54.00	-15.05	Vertical
15720	25.05	38.00	10.72	35.37	38.40	54.00	-15.60	Vertical
10480	25.70	39.15	8.32	35.78	37.39	54.00	-16.61	Horizontal
15720	22.45	38.00	10.72	35.37	35.80	54.00	-18.20	Horizontal

802.11n(HT20)					Test Frequency: 5180MHz			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10360	35.91	39.20	8.34	35.82	47.63	68.20	-20.57	Vertical
15540	34.55	37.90	10.77	35.38	47.84	68.20	-20.36	Vertical
10360	35.94	39.20	8.34	35.82	47.66	68.20	-20.54	Horizontal
15540	29.78	37.90	10.77	35.38	43.07	68.20	-25.13	Horizontal
10360	28.18	39.20	8.34	35.82	39.90	54.00	-14.10	Vertical
15540	25.75	37.90	10.77	35.38	39.04	54.00	-14.96	Vertical
10360	24.00	39.20	8.34	35.82	35.72	54.00	-18.28	Horizontal
15540	24.10	37.90	10.77	35.38	37.39	54.00	-16.61	Horizontal
802.11n(HT20)					Test Frequency: 5200MHz			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10400	36.90	38.96	8.27	35.64	48.49	68.20	-19.71	Vertical
15600	32.08	38.40	10.57	35.35	45.70	68.20	-22.50	Vertical
10400	32.95	38.96	8.27	35.64	44.54	68.20	-23.66	Horizontal
15600	33.86	38.40	10.57	35.35	47.48	68.20	-20.72	Horizontal
10400	30.09	38.96	8.27	35.64	41.68	54.00	-12.32	Vertical
15600	28.45	38.40	10.57	35.35	42.07	54.00	-11.93	Vertical
10400	27.43	38.96	8.27	35.64	39.02	54.00	-14.98	Horizontal
15600	22.60	38.40	10.57	35.35	36.22	54.00	-17.78	Horizontal
802.11n(HT20)					Test Frequency: 5240MHz			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10480	33.73	39.15	8.32	35.78	45.42	68.20	-22.78	Vertical
15720	33.24	38.00	10.72	35.37	46.59	68.20	-21.61	Vertical
10480	32.92	39.15	8.32	35.78	44.61	68.20	-23.59	Horizontal
15720	29.16	38.00	10.72	35.37	42.51	68.20	-25.69	Horizontal
10480	28.29	39.15	8.32	35.78	39.98	54.00	-14.02	Vertical
15720	27.92	38.00	10.72	35.37	41.27	54.00	-12.73	Vertical
10480	24.57	39.15	8.32	35.78	36.26	54.00	-17.74	Horizontal
15720	25.77	38.00	10.72	35.37	39.12	54.00	-14.88	Horizontal

802.11n(HT40)					Test Frequency: 5190MHz			
Frequency (MHz)	Read Level (dBUV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBUV/m)	Limit Line (dBUV/m)	Over Limit (dB)	polarization
10380	37.36	39.01	8.28	35.67	48.98	68.20	-19.22	Vertical
15570	32.75	38.30	10.60	35.36	46.29	68.20	-21.91	Vertical
10380	33.97	39.01	8.28	35.67	45.59	68.20	-22.61	Horizontal
15570	30.63	38.30	10.60	35.36	44.17	68.20	-24.03	Horizontal
10380	26.82	39.01	8.28	35.67	38.44	54.00	-15.56	Vertical
15570	26.22	38.30	10.60	35.36	39.76	54.00	-14.24	Vertical
10380	27.51	39.01	8.28	35.67	39.13	54.00	-14.87	Horizontal
15570	25.18	38.30	10.60	35.36	38.72	54.00	-15.28	Horizontal
802.11n(HT40)					Test Frequency: 5230MHz			
Frequency (MHz)	Read Level (dBUV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBUV/m)	Limit Line (dBUV/m)	Over Limit (dB)	polarization
10460	36.15	39.11	8.31	35.75	47.82	68.20	-20.38	Vertical
15690	33.23	38.10	10.70	35.37	46.66	68.20	-21.54	Vertical
10460	32.94	39.11	8.31	35.75	44.61	68.20	-23.59	Horizontal
15690	30.81	38.10	10.70	35.37	44.24	68.20	-23.96	Horizontal
10460	29.93	39.11	8.31	35.75	41.60	54.00	-12.40	Vertical
15690	28.96	38.10	10.70	35.37	42.39	54.00	-11.61	Vertical
10460	24.91	39.11	8.31	35.75	36.58	54.00	-17.42	Horizontal
15690	27.19	38.10	10.70	35.37	40.62	54.00	-13.38	Horizontal

802.11ac(VHT20)					Test Frequency: 5180MHz			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10360	34.02	38.96	8.27	35.64	45.61	68.20	-22.59	Vertical
15540	34.78	38.40	10.57	35.35	48.40	68.20	-19.80	Vertical
10360	32.63	38.96	8.27	35.64	44.22	68.20	-23.98	Horizontal
15540	33.04	38.40	10.57	35.35	46.66	68.20	-21.54	Horizontal
10360	26.83	38.96	8.27	35.64	38.42	54.00	-15.58	Vertical
15540	24.51	38.40	10.57	35.35	38.13	54.00	-15.87	Vertical
10360	24.99	38.96	8.27	35.64	36.58	54.00	-17.42	Horizontal
15540	22.27	38.40	10.57	35.35	35.89	54.00	-18.11	Horizontal
802.11ac(VHT20)					Test Frequency: 5200MHz			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10400	36.86	39.01	8.29	35.67	48.49	68.20	-19.71	Vertical
15600	33.46	38.30	10.62	35.36	47.02	68.20	-21.18	Vertical
10400	33.39	39.01	8.29	35.67	45.02	68.20	-23.18	Horizontal
15600	33.79	38.30	10.62	35.36	47.35	68.20	-20.85	Horizontal
10400	29.42	39.01	8.29	35.67	41.05	54.00	-12.95	Vertical
15600	27.92	38.30	10.62	35.36	41.48	54.00	-12.52	Vertical
10400	24.14	39.01	8.29	35.67	35.77	54.00	-18.23	Horizontal
15600	26.66	38.30	10.62	35.36	40.22	54.00	-13.78	Horizontal
802.11ac(VHT20)					Test Frequency: 5240MHz			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10480	32.42	39.15	8.32	35.78	44.11	68.20	-24.09	Vertical
15720	33.21	38.00	10.72	35.37	46.56	68.20	-21.64	Vertical
10480	34.09	39.15	8.32	35.78	45.78	68.20	-22.42	Horizontal
15720	33.96	38.00	10.72	35.37	47.31	68.20	-20.89	Horizontal
10480	27.17	39.15	8.32	35.78	38.86	54.00	-15.14	Vertical
15720	27.36	38.00	10.72	35.37	40.71	54.00	-13.29	Vertical
10480	23.55	39.15	8.32	35.78	35.24	54.00	-18.76	Horizontal
15720	24.77	38.00	10.72	35.37	38.12	54.00	-15.88	Horizontal

802.11ac(VHT40)					Test Frequency: 5190MHz			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10380	33.48	39.01	8.28	35.67	45.10	68.20	-23.10	Vertical
15570	30.70	38.30	10.60	35.36	44.24	68.20	-23.96	Vertical
10380	32.40	39.01	8.28	35.67	44.02	68.20	-24.18	Horizontal
15570	32.07	38.30	10.60	35.36	45.61	68.20	-22.59	Horizontal
10380	26.33	39.01	8.28	35.67	37.95	54.00	-16.05	Vertical
15570	26.75	38.30	10.60	35.36	40.29	54.00	-13.71	Vertical
10380	27.99	39.01	8.28	35.67	39.61	54.00	-14.39	Horizontal
15570	26.33	38.30	10.60	35.36	39.87	54.00	-14.13	Horizontal
802.11ac(VHT40)					Test Frequency: 5230MHz			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10460	33.81	39.11	8.31	35.75	45.48	68.20	-22.72	Vertical
15690	34.25	38.10	10.70	35.37	47.68	68.20	-20.52	Vertical
10460	31.50	39.11	8.31	35.75	43.17	68.20	-25.03	Horizontal
15690	32.74	38.10	10.70	35.37	46.17	68.20	-22.03	Horizontal
10460	28.81	39.11	8.31	35.75	40.48	54.00	-13.52	Vertical
15690	27.33	38.10	10.70	35.37	40.76	54.00	-13.24	Vertical
10460	23.82	39.11	8.31	35.75	35.49	54.00	-18.51	Horizontal
15690	23.73	38.10	10.70	35.37	37.16	54.00	-16.84	Horizontal
802.11ac(VHT80)					Test Frequency: 5210MHz			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10420	36.54	39.06	8.29	35.71	48.18	68.20	-20.02	Vertical
15630	33.62	38.20	10.65	35.36	47.11	68.20	-21.09	Vertical
10420	34.76	39.06	8.29	35.71	46.40	68.20	-21.80	Horizontal
15630	33.69	38.20	10.65	35.36	47.18	68.20	-21.02	Horizontal
10420	29.30	39.06	8.29	35.71	40.94	54.00	-13.06	Vertical
15630	27.57	38.20	10.65	35.36	41.06	54.00	-12.94	Vertical
10420	25.20	39.06	8.29	35.71	36.84	54.00	-17.16	Horizontal
15630	26.85	38.20	10.65	35.36	40.34	54.00	-13.66	Horizontal

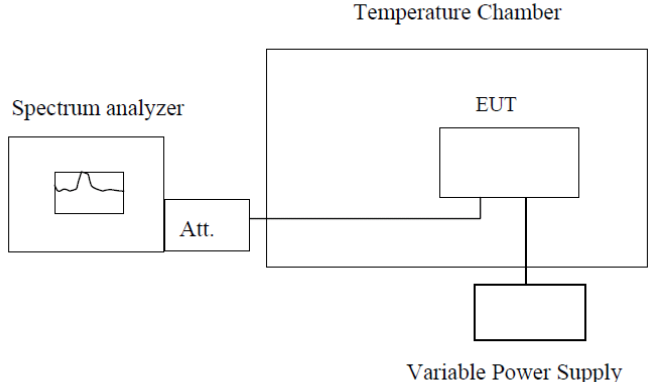
Notes:

1. The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Level(dBuV/m)=Reading level(dBuV)+Antenna Factor(dB/m)+Cable Loss(dB)-Preamp Factor(dB)

2. The test trace is same as the ambient noise (the test frequency range: 18GHz~40GHz), therefore no data appear in the report.

7.7 Frequency stability

Test Requirement:	FCC Part15 C Section 15.407(g)
Test Method:	ANSI C63.10:2020, FCC Part 2.1055,
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:

Test Condition	Test Mode	Test Frequency [MHz]	Ant	Result [ppm]	Limit [ppm]	Verdict
NTNV	Carrier	5180	1	-0.18	≤ 20	PASS
		5190	1	-1.05	≤ 20	PASS
		5200	1	-0.29	≤ 20	PASS
		5210	1	-1.35	≤ 20	PASS
		5230	1	-1.66	≤ 20	PASS
		5240	1	-0.81	≤ 20	PASS

8 Test Setup Photo

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

9 EUT Constructional Details

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

---END---