



TEST REPORT

For WiFi-5GHz Band

Report No..... : CHTW26065081

Project No : SHT2603105404W

FCC ID : 2BV2EYOUKEY-QX

Applicant's name : Wuhan Youkey Bio-Medical Electronics Co., Ltd.

Address..... : 2nd Floor, Dingxin Industry Park, Jiayuan Road East Lake
Development Zone Wuhan 430000 CHINA

Product Name..... : Pocket Ultrasound System

Trade Mark..... : -

Model No..... : Q70

Listed Model(s) : Q31, Q32, Q33, Q34, Q35, Q36, Q37, Q38, Q39,
Q39L (Sono-Key), Q80, Q51, Q52, Q53, D80, Q7, MylabPocket

Standard : **FCC CFR Title 47 Part 15 Subpart E § 15.407**

Date of receipt of test sample..... : 2026/4/23

Date of testing..... : 2026/4/23-2026/7/15

Date of issue..... : 2026/7/17

Result..... : **Pass**



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Testing Laboratory Name : **Shenzhen Huatongwei International Inspection Co., Ltd.**

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Test Report Form No. : R0066

Test Report Form(s) Originator : Shenzhen Huatongwei International Inspection Co., Ltd.

Master TRF : Dated 2025-07

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1. TEST STANDARDS AND REPORT VERSION

1.1. Test Standards

The tests were performed according to following standards:

- [FCC CFR Title 47 Part 15 Subpart E § 15.407](#): General technical requirements
- [ANSI C63.10:2020](#): American National Standard for Testing Unlicensed Wireless Devices
- [KDB789033 D02 v02r01](#): GUIDELINES FOR COMPLIANCE TESTING OF UNLICENSED NATIONAL INFORMATION INFRASTRUCTURE (U-NII) DEVICES PART 15, SUBPART E

1.2. Report version

Revision No.	Date of issue	Description
N/A	2026-07-17	Original

2. TEST DESCRIPTION

Report clause	Test Items	Standard Requirement	Result	Test Engineer
5.1	Antenna Requirement	15.203/15.247(c)	PASS	Jiaxing Si
5.2	AC Conducted Emission	15.207	PASS	YATING.CHEN
5.3	Maximum Conducted Output Power	15.407(a)	PASS	Jiaxing Si
5.4	Maximum Power Spectral Density	15.407(a)	PASS	Jiaxing Si
5.5	26dB Bandwidth and 99% Occupancy bandwidth	15.407(a)	PASS	Jiaxing Si
5.6	6dB Bandwidth	15.407(a)	N/A	Jiaxing Si
5.7	Band edge	15.407(b)	PASS	Junxu Lin
5.8	Radiated Spurious Emissions	15.209	PASS	Junxu Lin ZIWEN.WANG
5.9	Frequency Stability	15.407(g)	PASS	Jiaxing Si

Note:

- The measurement uncertainty is not included in the test result.

3. SUMMARY

3.1. Client Information

Applicant:	Wuhan Youkey Bio-Medical Electronics Co., Ltd.
Address:	2nd Floor, Dingxin Industry Park, Jiayuan Road East Lake Development Zone Wuhan 430000 CHINA
Manufacturer:	Wuhan Youkey Bio-Medical Electronics Co., Ltd.
Address:	2nd Floor, Dingxin Industry Park, Jiayuan Road East Lake Development Zone Wuhan 430000 CHINA

3.2. Product Description

Main unit information:	
Product Name:	Pocket Ultrasound System
Trade Mark:	-
Model No.:	Q70
Listed Model(s):	Q31,Q32,Q33,Q34,Q35,Q36,Q37,Q38,Q39, Q39L (Sono-Key),Q80,Q51,Q52,Q53,D80,Q7,MylabPocket
Power supply:	DC 7.6V from Battery
Hardware version:	PCB A 1000 MB 300 0
Software version:	V2.0.9
Accessory unit information:	
Battery information:	Model:CLY502775 Rated:7.6V 1300mAh 9.88Wh

3.3. Radio Specification Description

Support type ^{*1}	☒ 802.11a	☒ 802.11n	☐ 802.11ac
Support Bandwidth	20MHz:	802.11n, 802.11a	
	40MHz:	802.11n	
Operation frequency:	☒ U-NII-1 Band:	5150MHz~5250MHz	
	☐ U-NII-2A Band:	5250MHz~5350MHz	
	☐ U-NII-2C Band:	5470MHz~5725MHz	
Modulation:	BPSK, QPSK, 16QAM, 64QAM		
Function:	☐ Outdoor AP	☐ Indoor AP	☐ Fixed P2P
	☒ Client		
DFS type:	☐ Master devices	☐ Slave devices with radar detection	☒ Slave devices without radar detection
Antenna technology:	☒ SISO	☐ MIMO	
Antenna type:	Ceramic Antenna		
Antenna gain:	3.30dBi		

Note:

*1: only show the RF function associated with this report.

3.4. Testing Laboratory Information

Laboratory Name	Shenzhen Huatongwei International Inspection Co., Ltd.	
Laboratory Location	Building 7, Baiwang Idea Factory, No.1051, Songbai Road, Yangguang Community, Xili Subdistrict, Nanshan District, Shenzhen, Guangdong, China	
Contact information:	Phone: 400-963-0755 E-mail: cs@szhtw.com.cn http://www.szhtw.com.cn	
Qualifications	Type	Accreditation Number
	FCC Registration Number	762235
	FCC Designation Number	CN1181

4. TEST CONFIGURATION

4.1. Test frequency list

According to section 15.31(m), regards to the operating frequency range over 10 MHz, must select three channels which were tested. The Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, please see the below.

Band	Test Channel	20MHz		40MHz	
		Channel	Frequency (MHz)	Channel	Frequency (MHz)
U-NII-1	CH _L	36	5180	38	5190
	-	40	5200	-	-
	CH _M	44	5220	-	-
	CH _H	48	5240	46	5230

4.2. Descriptions of Test mode

Preliminary tests were performed in different data rates, final test modes are considering the modulation and worse data rates as below table.

Modulation	Data rate
802.11a	6Mbps
802.11n(HT20)	MCS0
802.11n(HT40)	MCS0

4.3. Test mode

For RF test items
The engineering test program was provided and enabled to make EUT continuous transmit.
For AC power line conducted emissions:
The EUT was set to connect with the WLAN AP under large package sizes transmission.
For Radiated spurious emissions test item:
The engineering test program was provided and enabled to make EUT continuous transmit. The EUT in each of three orthogonal axis emissions had been tested, but only the worst case (X axis) data Recorded in the report.

4.4. Test sample information

Test item	HTW sample no.
RF Conducted test items	Please refer to the description in the appendix report
RF Radiated test items	YPHT26031054004
EMI test items	YPHT26031054019

Note:

RF Conducted test items: Maximum Conducted Output Power, Maximum Power Spectral Density , 26dB Bandwidth and 99% Occupancy bandwidth, Frequency Stability

RF Radiated test items: Band edge, Radiated Spurious Emission

EMI test items: AC Conducted Emission

4.5. Support unit used in test configuration and system

The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

The following peripheral devices and interface cables were connected during the measurement:

Whether support unit is used?			
✓ No			
Item	Equipment	Trade Name	Model No.
1			
2			

4.6. Testing environmental condition

Type	Requirement	Actual
Temperature:	15~35°C	25°C
Relative Humidity:	25~75%	50%
Air Pressure:	860~1060mbar	1000mbar

4.7. Statement of the measurement uncertainty

No.	Test Items	Measurement Uncertainty
1	AC Conducted Emission	3.21dB
2	Maximum Conducted Output Power	1.07
3	Maximum Power Spectral Density	1.07
4	26dB Bandwidth and 99% Occupancy bandwidth	0.002%
5	6dB Bandwidth	0.002%
6	Radiated Band Edge Emission	4.54dB for 30MHz-1GHz 5.10dB for above 1GHz
7	Radiated Spurious Emission	4.54dB for 30MHz-1GHz 5.10dB for above 1GHz
8	Frequency Stability	0.05ppm

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=1.96$.

4.8. Equipment Used during the Test

● EMC Test Software					
Used	Test Item	Software Name	Manufacturer	Equipment No.	Version
●	Conducted Emission	EMC32	R&S	HTWER012	V10.60.20
●	Radiated Emission	TS+	Tonscend	/	V5.0.0

● RF Test Software					
Used	Test Item	Software Name	Manufacturer	Equipment No.	Version
●	RF Conducted	JS1120-3 RF Test Software	Tonscend	-	V3.6.21
●	Radiated Spurious Emission	E3	AUDIX	HTWER006	V6.110407a

● RF Conducted test item							
Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
●	Signal and spectrum Analyzer	R&S	HTWE0242	FSV40	100048	2025/8/19	2026/8/18
●	Vector signal generator	R&S	HTWE0244	SMBV100A	260790	2026/3/13	2027/3/12
●	OSP	R&S	HTWE0243	OSP120	101317	2025/8/19	2026/8/18
●	10dB Attenuator	R&S	HTWE0250-01	10dB Attenuator-1	N/A	2025/8/22	2026/8/21
●	10dB Attenuator	R&S	HTWE0250-02	10dB Attenuator-2	N/A	2025/8/22	2026/8/21
●	10dB Attenuator	R&S	HTWE0250-03	10dB Attenuator-3	N/A	2025/8/22	2026/8/21
●	10dB Attenuator	R&S	HTWE0250-04	10dB Attenuator-4	N/A	2025/8/22	2026/8/21
●	30dB Attenuator	R&S	HTWE0250-05	30dB Attenuator-5	N/A	2025/8/22	2026/8/21

● Auxiliary Equipment							
Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
●	Climate chamber	ESPEC	HTWS0715	GPL-2	N/A	2026/6/5	2027/6/4
●	Walk-in Constant Temperature And Humidity Cabinet	重庆银河	HTWS0383	SDJ610A	201800463	2026/6/5	2027/6/4
○	DC Power Supply	Gwinstek	HTWE0274	SPS-2415	GER835793	N/A	N/A
○	DC Power Supply	MESTEK	HTWE0705	DP6010	00230820197	N/A	N/A

● Radiated emission- 9kHz~30MHz

Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
●	Semi-Anechoic Chamber	Albatross projects	HTWE0127	SAC-3m-02	C11121	2026/3/24	2029/3/23
●	EMI Test Receiver	R&S	HTWE0099	ESCI 7	100900	2025/8/6	2026/8/5
●	Loop Antenna	R&S	HTWE0546	HFH2-Z2E	101073	2024/4/8	2027/4/7

● Radiated emission- 30MHz~1GHz

Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
●	Semi-Anechoic Chamber	Albatross projects	HTWE0127	SAC-3m-02	C11121	2026/3/24	2029/3/23
●	EMI Test Receiver	R&S	HTWE0099	ESCI 7	100900	2025/8/6	2026/8/5
●	Ultra-Broadband Antenna	SCHWARZBECK	HTWE0119	VULB9163	546	2025/12/16	2028/12/15
●	Pre-Amplifier	SCHWARZBECK	HTWE0295	BBV 9742	/	2026/5/12	2027/5/11
●	CMAD	SCHWARZBECK	HTWE0537	CMAD1614	1614-530	2025/8/4	2026/8/3

● Radiated emission- Above 1GHz

Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
●	Full-Anechoic Chamber	Albatross projects	HTWE0122	SAC-3m-01	C11122	2026/3/19	2029/3/18
●	Spectrum Analyzer	R&S	HTWE0098	FSP40	100597	2025/8/6	2026/8/5
●	Horn Antenna	SCHWARZBECK	HTWE0126	BBHA 9120D	1011	2026/1/23	2029/1/22
●	Broadband Pre-amplifier	SCHWARZBECK	HTWE0551	SCU18F	100855	2026/5/12	2027/5/11

● Auxiliary Equipment

Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
○	DC Power Supply	Gwinstek	HTWE0274	SPS-2415	GER835793	N/A	N/A
○	DC Power Supply	MESTEK	HTWE0705	DP6010	00230820197	N/A	N/A

5. TEST CONDITIONS AND RESULTS

5.1. Antenna Requirement

Requirement

FCC CFR Title 47 Part 15 Subpart C Section 15.203:

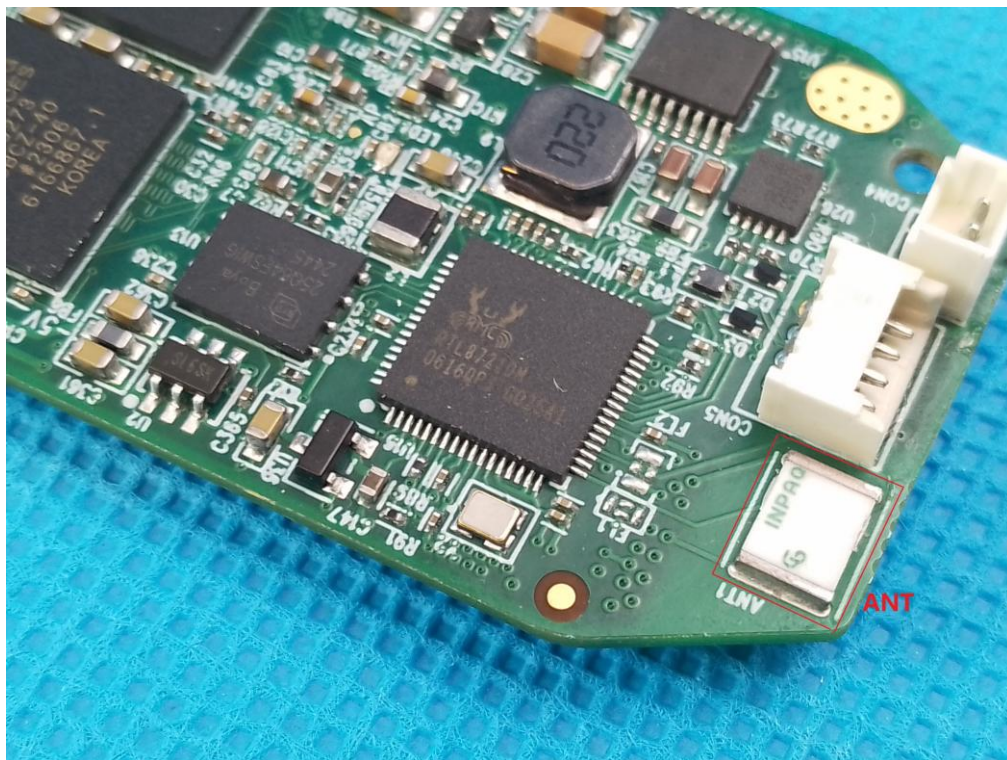
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit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

TEST RESULT

☒ Passed ☐ Not Applicable

The antenna type is a Ceramic antenna, please refer to the below antenna photo.

|



5.2. AC Conducted Emission

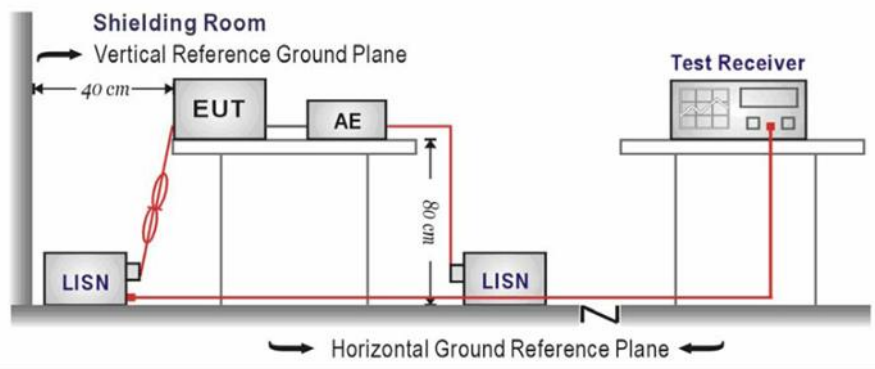
LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.207

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 CONFIGURATION



TEST PROCEDURE

1. The EUT was setup according to ANSI C63.10 requirements.
2. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface.
3. The EUT and simulators are connected to the main power through a line impedances stabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for the measuring equipment.
4. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs)
5. Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.
6. The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.
7. Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.
8. During the above scans, the emissions were maximized by cable manipulation.

TEST MODE:

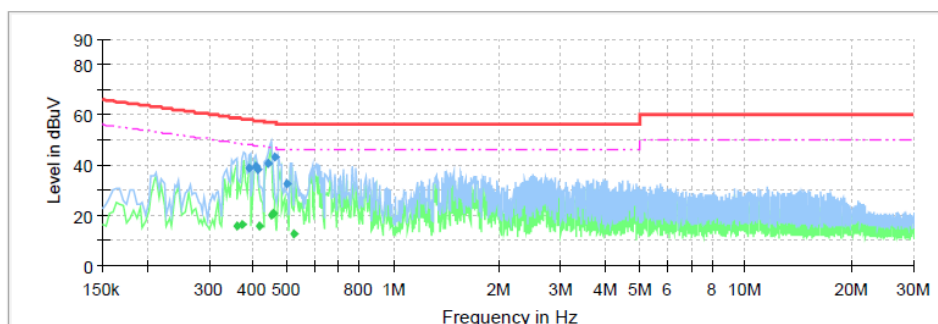
Please refer to the clause 4.3

TEST RESULT

☒ Passed ☐ Not Applicable

Test Line:

L

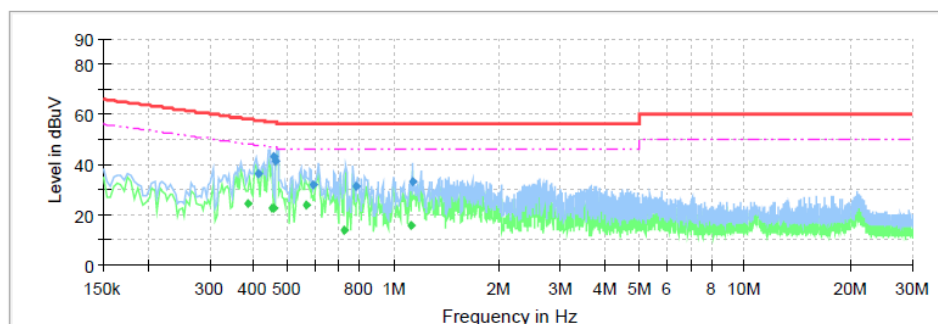


Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Corr. (dB)
0.359106	---	15.40	48.75	33.35	L1	10.0
0.374031	---	16.33	48.41	32.08	L1	10.0
0.391106	38.92	---	58.04	19.12	L1	10.0
0.408956	39.14	---	57.67	18.52	L1	10.1
0.414031	38.30	---	57.57	19.26	L1	10.1
0.416956	---	15.55	47.51	31.96	L1	10.1
0.441731	40.58	---	57.03	16.45	L1	10.1
0.452119	---	19.77	46.84	27.06	L1	10.1
0.457731	---	20.37	46.73	26.37	L1	10.1
0.464119	43.10	---	56.62	13.52	L1	10.1
0.501162	32.20	---	56.00	23.80	L1	10.1
0.521162	---	12.50	46.00	33.50	L1	10.1

Test Line:

N



Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Corr. (dB)
0.384956	---	24.55	48.17	23.62	N	10.3
0.412956	36.18	---	57.59	21.41	N	10.3
0.452656	---	22.70	46.83	24.12	N	10.3
0.454269	---	22.69	46.80	24.11	N	10.3
0.458269	42.90	---	56.72	13.82	N	10.3
0.464388	41.54	---	56.61	15.08	N	10.3
0.567012	---	23.44	46.00	22.56	N	10.3
0.594175	32.09	---	56.00	23.91	N	10.3
0.721306	---	13.92	46.00	32.08	N	10.3
0.782888	31.40	---	56.00	24.60	N	10.3
1.124550	---	15.66	46.00	30.34	N	10.4
1.132550	33.19	---	56.00	22.81	N	10.4

Note: Have pre-scan all test channel, found CH_L of 802.11A which it was worst case, so only show the worst case's data on this report.

5.3. Maximum Conducted Output Power

LIMIT

FCC CFR Title 47 Part 15 Subpart E Section 15.407(a):

For the 5.15~5.25GHz band:

- Outdoor AP
The maximum conducted output power (P_{out}) shall not exceed the lesser of 1W (30dBm).
if $G_{TX} > 6\text{dBi}$, then $P_{out} = 30 - (G_{TX} - 6)$. e.i.r.p. at any elevation angle above 30 degrees $\leq 125\text{mW}$ (21dBm)
- Indoor AP
The maximum conducted output power (P_{out}) shall not exceed the lesser of 1W (30dBm).
if $G_{TX} > 6\text{dBi}$, then $P_{out} = 30 - (G_{TX} - 6)$.
- Point-to-point AP
The maximum conducted output power (P_{out}) shall not exceed the lesser of 1W (30dBm).
if $G_{TX} > 23\text{dBi}$, then $P_{out} = 30 - (G_{TX} - 23)$.
- Client devices
The maximum conducted output power (P_{out}) shall not exceed the lesser of 250W (24dBm).
if $G_{TX} > 6\text{dBi}$, then $P_{out} = 24 - (G_{TX} - 6)$.

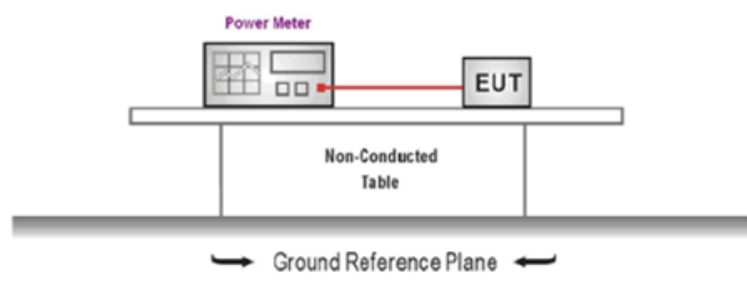
For the 5.25~5.35GHz band:

The maximum conducted output power (P_{out}) shall not exceed the lesser of 250mW (24dBm) or $11\text{dBm} + 10 \log B$, where B is the 26dB emission bandwidth in MHz.
if $G_{TX} > 6\text{dBi}$, then $P_{out} = 24 - (G_{TX} - 6)$.

For the 5.47~5.725GHz band:

The maximum conducted output power (P_{out}) shall not exceed the lesser of 250mW (24dBm) or $11\text{dBm} + 10 \log B$, where B is the 26dB emission bandwidth in MHz.
if $G_{TX} > 6\text{dBi}$, then $P_{out} = 24 - (G_{TX} - 6)$.

TEST CONFIGURATION



TEST PROCEDURE

1. The EUT was tested according to KDB789033 Section E-3-b)
2. The maximum conducted output power may be measured using a broadband AVG RF power meter.
3. Average power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor.
4. The power meter implemented triggering and gating capabilities which were set up such that power measurements were recorded only during the ON time of the transmitter.
5. Record the measurement data.

TEST MODE:

Please refer to the clause 4.3

TEST RESULT

☒ **Passed** ☐ **Not Applicable**

TEST Data

Refer to the appendix report on the section 8

5.4. Power Spectral Density

LIMIT

FCC CFR Title 47 Part 15 Subpart E Section 15.407(a):

For the 5.15~5.25GHz band:

- Outdoor AP
The peak power spectral density (PSD) shall not exceed the lesser of 17dBm/MHz.
if $G_{TX} > 6\text{dBi}$, then $\text{PSD} = 17 - (G_{TX} - 6)$.
- Indoor AP
The peak power spectral density (PSD) shall not exceed the lesser of 17dBm/MHz.
if $G_{TX} > 6\text{dBi}$, then $\text{PSD} = 17 - (G_{TX} - 6)$.
- Point-to-point AP
The peak power spectral density (PSD) shall not exceed the lesser of 17dBm/MHz.
if $G_{TX} > 23\text{dBi}$, then $\text{PSD} = 17 - (G_{TX} - 23)$.
- Client devices
The peak power spectral density (PSD) shall not exceed the lesser of 11dBm/MHz.
if $G_{TX} > 6\text{dBi}$, then $\text{PSD} = 11 - (G_{TX} - 6)$.

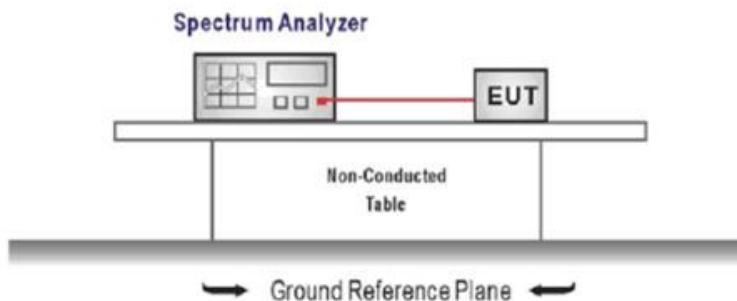
For the 5.25~5.35GHz band:

The peak power spectral density (PSD) shall not exceed the lesser of 11dBm/MHz.
if $G_{TX} > 6\text{dBi}$, then $\text{PSD} = 11 - (G_{TX} - 6)$.

For the 5.47~5.725GHz band:

The peak power spectral density (PSD) shall not exceed the lesser of 11dBm/MHz.
if $G_{TX} > 6\text{dBi}$, then $\text{PSD} = 11 - (G_{TX} - 6)$.

TEST CONFIGURATION



TEST PROCEDURE

1. According KDB 789033 D02 – Section F
2. Analyzer was setting as follow:
Center frequency: test channel
Span was set to encompass the entire emission bandwidth of the signal
RBW=1MHz for devices operating in the bands 5.15-5.25 GHz, 5.25-5.35 GHz, and 5.47-5.725 GHz
RBW=500kHz for devices operating in the band 5.725-5.85 GHz
VBW ≥ 3 RBW
Number of sweep points $> 2 \times (\text{span}/\text{RBW})$
Sweep time = auto
Detector = RMS
Trigger was set to free run for all modes, trace was averaged over 100 sweeps
3. The peak search function of the spectrum analyzer was used to find the peak of the spectrum.

TEST MODE:

Please refer to the clause 4.3

TEST RESULT

☒ **Passed** ☐ **Not Applicable**

TEST Data

Refer to the appendix report on the section 8

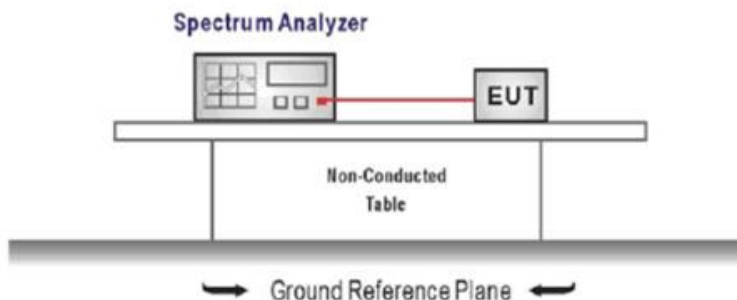
NOTE: Result [dBm/MHz]= PSD[dBm/MHz]+ DC Factor[dBm]

5.5. 26dB bandwidth and 99% Occupancy bandwidth

LIMIT

The bandwidth at 26dB down from the highest in-band spectral density is measured with a spectrum analyzer connected to the antenna terminal while the EUT is operating at its maximum duty cycle, at its maximum power control level, as defined in KDB 789033 D02 , and at the appropriate frequencies. The spectrum analyzer's bandwidth measurement function is configured to measure the 26dB bandwidth.

TEST CONFIGURATION



TEST PROCEDURE

1. According KDB 789033 D02 – Section C, 26dB bandwidth test as follow
 - a) Set RBW = approximately 1% of the emission bandwidth.
 - b) Set the VBW > RBW.
 - c) Detector = Peak.
 - d) Trace mode = max hold.
 - e) Measure the maximum width of the emission that is 26 dB down from the maximum of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.
2. According KDB 789033 D02 – Section D, 99% bandwidth test as follow
 - a). Set center frequency to the nominal EUT channel center frequency.
 - b). Set span = 1.5 times to 5.0 times the OBW.
 - c). Set RBW = 1% to 5% of the OBW
 - d). Set VBW ≥ 3 RBW
 - e). Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
 - f). Use the 99% power bandwidth function of the instrument

TEST MODE:

Please refer to the clause 4.3

TEST RESULT

☒ Passed ☐ Not Applicable

TEST Data

Refer to the appendix report on the section 8

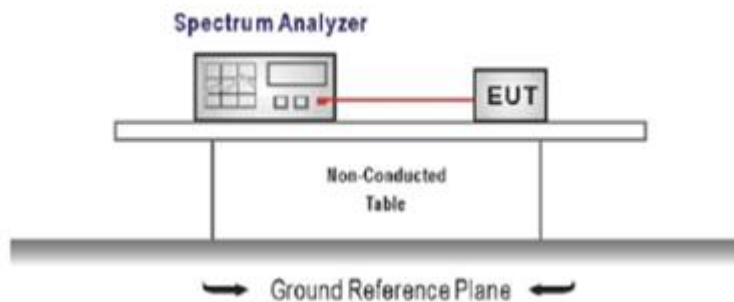
5.6. 6dB Bandwidth

LIMIT

FCC CFR Title 47 Part 15 Subpart E Section 15.407(e)

Within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz

TEST CONFIGURATION



TEST PROCEDURE

1. C Connect the antenna port(s) to the spectrum analyzer input.
2. Configure the spectrum analyzer as shown below (enter all losses between the transmitter output and the spectrum analyzer).
Center Frequency = test channel center frequency
Span = 2 x emission bandwidth
RBW = 100 kHz, VBW $\geq 3 \times$ RBW
Sweep time = auto couple
Detector = Peak
Trace mode = max hold
3. Place the radio in continuous transmit mode, allow the trace to stabilize, view the transmitter wave form on the spectrum analyzer.
4. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission, and record the pertinent measurements.

TEST MODE:

Please refer to the clause 4.3

TEST RESULT

☐ Passed ☒ Not Applicable

5.7. Band edge

LIMIT

FCC CFR Title 47 Part 15 Subpart E Section 15.407(b)

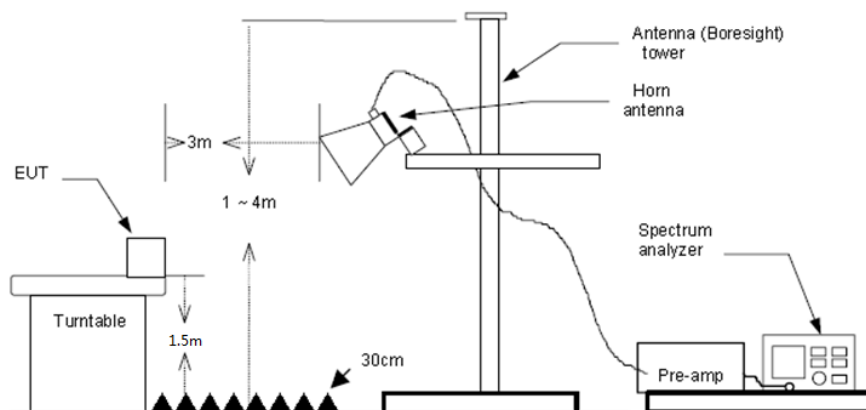
Un-restricted band emissions above 1GHz			
Operating Band	Frequency	EIRP Limit	Value
5150-5250MHz	Above 1GHz	-27dBm/MHz(68.2dBuV/m)@3m	Peak
5250-5350MHz	Above 1GHz	-27dBm/MHz(68.2dBuV/m)@3m	Peak
5470-5725MHz	Above 1GHz	-27dBm/MHz(68.2dBuV/m)@3m	Peak
5725-5850 MHz	1GHz-5.65GHz	-27 dBm/MHz(68.2dBuV/m)@3m	Peak
	5.65GHz-5.7GHz	-27*dBm/MHz to 10dBm/MHz (68.2* dBuV/m to 105.2dBuV/m)	Peak
	5.7GHz-5.72GHz	10*dBm/MHz to 15.6dBm/MHz (105.6*dBuV/m to 110.8dBuV/m)	Peak
	5.72GHz-5.725GHz	15.6*dBm/MHz to 27dBm/MHz (110.8dBuV/m to * 122.2dBuV/m)	Peak
	5.85GHz-5.855GHz	27dBm/MHz to 15.6*dBm/MHz (122.2dBuV/m to 110.8* dBuV/m)	Peak
	5.855GHz-5.875GHz	15.6dBm/MHz to 10*dBm/MHz (110.8dBuV/m to 105.2* dBuV/m)	Peak
	5.875GHz-5.925GHz	10dBm/MHz to -27*dBm/MHz (105.6dBuV/m to 68.2* dBuV/m)	Peak
	Above 5.925GHz	-27 dBm/MHz(68.2dBuV/m)@3m	Peak

* Increase/Decreases with the linearity of the frequency.

For emission above 1GHz and in restricted band, according to FCC KDB 789033 D02 General UNII Test Procedure, all emission that complies with both the average and peak limits of Section 15.209 is not required to satisfy the -27 dBm/MHz peak emission limit. $E[dBuV/m] = EIRP[dBm] + 95.2$, for $d = 3$ meters.

TEST CONFIGURATION

Radiated:



TEST PROCEDURE

1. The EUT was setup and tested according to ANSI C63.10:2013 requirements.
2. The EUT is placed on a turn table which is 1.5 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
3. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.
4. The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10:2013 on radiated measurement.
5. The receiver set as follow:
RBW=1MHz, VBW=3MHz PEAK detector for Peak value.
RBW=1MHz, VBW=3MHz RMS detector for Average value.

TEST MODE:

Please refer to the clause 4.3

TEST RESULTS

☒ Passed ☐ Not Applicable

Radiated Band Edge Test Data

Radiated EMI Edge Test Data										
U-NII-1			Worst mode: 802.11a				Test channel: CH _L			
Polarization:						Horizontal				
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	5150.07	41.45	31.90	6.49	39.90	10.00	49.94	68.20	-18.26	Peak
Polarization:						Vertical				
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	5150.07	42.22	31.90	6.49	39.90	10.00	50.71	68.20	-17.49	Peak

U-NII-1			Worst mode: 802.11a				Test channel: CH _H				
Polarization:						Horizontal					
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	5350.06	41.34	31.40	6.72	39.63	10.00	49.83	68.20	-18.37	Peak	
Polarization:						Vertical					
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	5350.06	41.53	31.40	6.72	39.63	10.00	50.02	68.20	-18.18	Peak	

U-NII-1			Worst mode: 802.11n(HT40)					Test channel: CH _L		
Polarization:					Horizontal					
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	5150.07	42.61	31.90	6.49	39.90	10.00	51.10	68.20	-17.10	Peak
Polarization:					Vertical					
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	5150.07	44.85	31.90	6.49	39.90	10.00	53.34	68.20	-14.86	Peak

U-NII-1		Worst mode: 802.11n(HT40)					Test channel: CH _H				
Polarization:						Horizontal					
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	5350.06	41.53	31.40	6.72	39.63	10.00	50.02	68.20	-18.18	Peak	
Polarization:						Vertical					
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	5350.06	41.67	31.40	6.72	39.63	10.00	50.16	68.20	-18.04	Peak	

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. Pre-tested all modulations for 802.11a, 802.11n mode, only worst case is reported

5.8. Radiated Spurious Emissions

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.209 and Part 15 Subpart E Section 15.407

Frequency	Limit (dBuV/m)	Value
0.009 MHz ~0.49 MHz	2400/F(kHz) @300m	Quasi-peak
0.49 MHz ~ 1.705 MHz	24000/F(kHz) @30m	Quasi-peak
1.705 MHz ~30 MHz	30 @30m	Quasi-peak

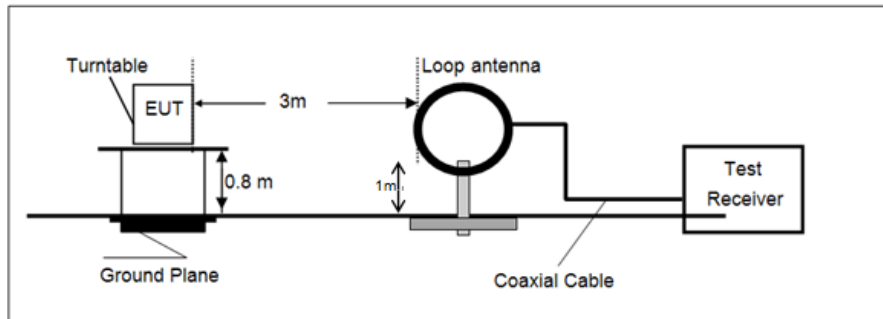
Note: Limit dBuV/m @3m = Limit dBuV/m @300m + 40*log(300/3)= Limit dBuV/m @300m +80,

Limit dBuV/m @3m = Limit dBuV/m @30m +40*log(30/3)= Limit dBuV/m @30m + 40.

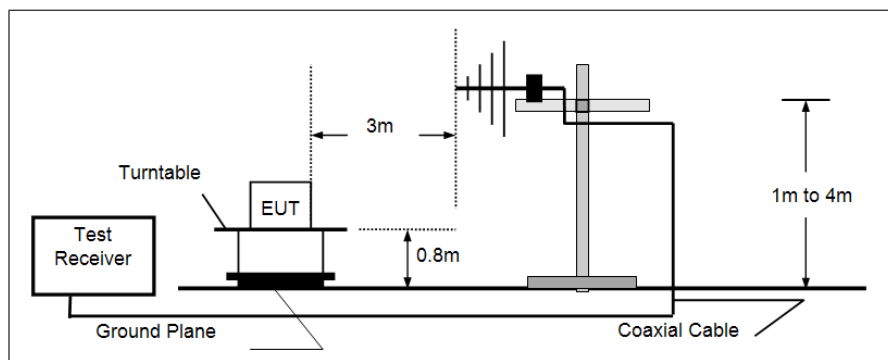
Unwanted emissions below 1GHz and Restricted band emissions above 1GHz		
Frequency	Limit (dBuV/m @3m)	Value
30MHz-88MHz	40.00	Quasi-peak
88MHz-216MHz	43.50	Quasi-peak
216MHz-960MHz	46.00	Quasi-peak
960MHz-1GHz	54.00	Quasi-peak
Above 1GHz	54.00	Average
	74.00	Peak

TEST CONFIGURATION

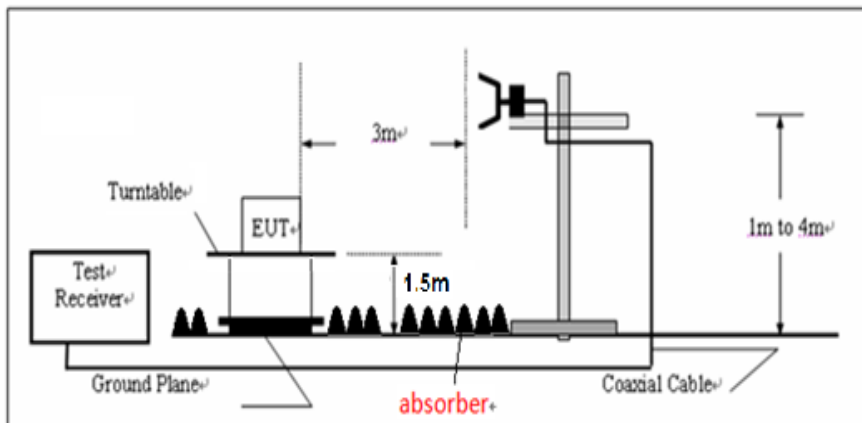
- 9KHz ~30MHz



- 30MHz ~ 1GHz



➤ Above 1GHz

**TEST PROCEDURE**

1. The EUT was setup and tested according to ANSI C63.10:2013
2. The EUT is placed on a turn table which is 0.8 meter above ground for below 1 GHz, and 1.5 m for above 1 GHz. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
3. The EUT was set 3 meters from the receiving antenna, which was mounted on the top of a variable height antenna tower.
4. For each suspected emission, the EUT was arranged to its worst case and then tune the Antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level to comply with the guidelines.
5. Set to the maximum power setting and enable the EUT transmit continuously.
6. Use the following spectrum analyzer settings
 - a) Span shall wide enough to fully capture the emission being measured;
 - b) Below 1 GHz:
 - RBW=120 kHz, VBW=300 kHz, Sweep=auto, Detector function=peak, Trace=max hold;
 - If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.
 - c) From 1 GHz to 10th harmonic:
 - RBW=1MHz, VBW=3MHz Peak detector for Peak value.
 - RBW=1MHz, VBW=3MHz RMS detector for Average value.

TEST MODE:

Please refer to the clause 4.3

TEST RESULT

☒ Passed ☐ Not Applicable

TEST Data**TEST DATA FOR 9 kHz ~ 30 MHz**

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

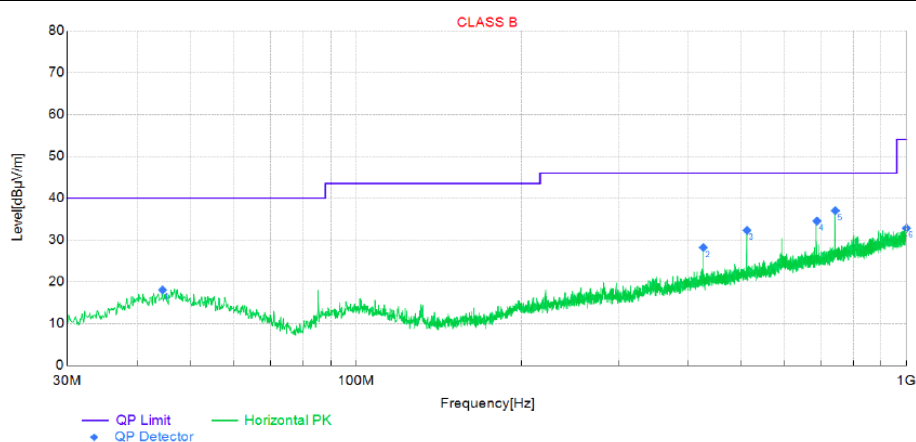
TEST DATA FOR 30MHz-1GHz

Note: Have pre-scan all test channel, found CH_L of 802.11A which it was worst case, so only show the worst case's data on this report.

TEST DATA FOR 30MHz-1GHz

Polarization:

Horizontal

**Final Data List**

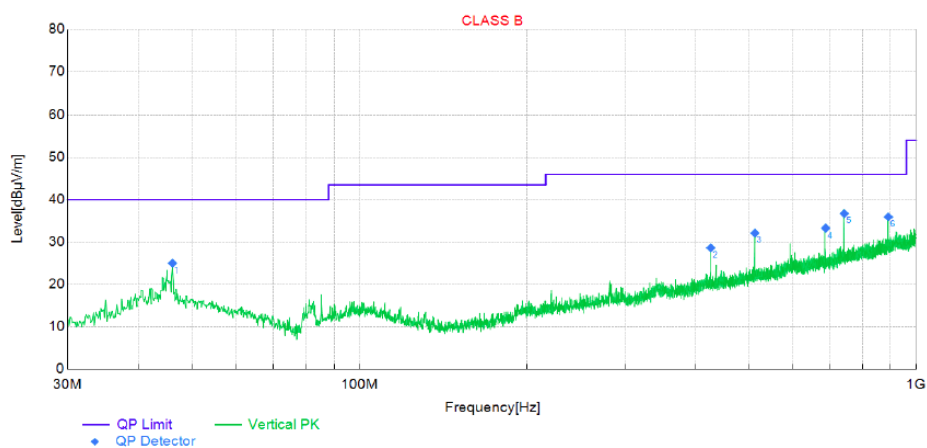
NO.	Frequency [MHz]	Factor [dB/m]	QP Reading [dBμV/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Pol
1	44.5500	-8.94	27	18.06	40.00	21.94	100	121	Horizontal
2	427.4575	-3.65	31.85	28.20	46.00	17.80	100	171	Horizontal
3	513.0600	-1.84	34.14	32.30	46.00	13.70	100	171	Horizontal
4	687.5388	2.05	32.44	34.49	46.00	11.51	100	168	Horizontal
5	742.5863	3.53	33.48	37.01	46.00	8.99	100	109	Horizontal
6	1000.0000	7.88	24.92	32.80	54.00	21.20	100	5	Horizontal

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level

Polarization:

Vertical

**Final Data List**

NO.	Frequency [MHz]	Factor [dB/m]	QP Reading [dBμV/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Pol
1	46.1263	-8.70	33.67	24.97	40.00	15.03	100	76	Vertical
2	427.4575	-3.65	32.26	28.61	46.00	17.39	100	118	Vertical
3	513.0600	-1.84	33.95	32.11	46.00	13.89	100	1	Vertical
4	687.5388	2.05	31.22	33.27	46.00	12.73	100	80	Vertical
5	742.5863	3.53	33.19	36.72	46.00	9.28	100	34	Vertical
6	891.1175	6.30	29.64	35.94	46.00	10.06	100	64	Vertical

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level

Remark:

Transd=Cable lose+ Antenna factor- Pre-amplifier; Margin=Limit -Level

TEST DATA FOR Above 1GHz

TEST DATA FOR ABOVE 1GHz									
U-NII-1		Worst mode: 802.11a					Test channel: CH _L		
Polarization:					Horizontal				
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	2789.46	43.42	28.24	4.56	40.91	35.31	68.20	-32.89	Peak
2	4055.37	42.27	29.90	5.68	40.40	37.45	68.20	-30.75	Peak
3	7413.73	42.13	36.20	7.91	39.20	47.04	68.20	-21.16	Peak
4	10374.42	42.57	39.82	9.10	41.12	50.37	68.20	-17.83	Peak
Polarization:					Vertical				
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	2698.67	44.61	27.70	4.49	40.95	35.85	68.20	-32.35	Peak
2	5073.59	40.71	31.84	6.37	39.90	39.02	68.20	-29.18	Peak
3	8593.22	41.95	37.47	8.58	39.51	48.49	68.20	-19.71	Peak
4	10453.95	43.84	39.95	9.16	41.24	51.71	68.20	-16.49	Peak

U-NII-1		Worst mode: 802.11a					Test channel: CH _M		
Polarization:					Horizontal				

Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	2664.54	44.05	27.63	4.52	40.97	35.23	68.20	-32.97	Peak
2	5060.69	40.54	31.76	6.36	39.90	38.76	68.20	-29.44	Peak
3	7981.72	41.69	36.96	8.37	39.23	47.79	68.20	-20.41	Peak
4	10453.95	42.70	39.95	9.16	41.24	50.57	68.20	-17.63	Peak
Polarization:					Vertical				

Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	2664.54	44.05	27.63	4.52	40.97	35.23	68.20	-32.97	Peak
2	5060.69	40.54	31.76	6.36	39.90	38.76	68.20	-29.44	Peak
3	7981.72	41.69	36.96	8.37	39.23	47.79	68.20	-20.41	Peak
4	10453.95	42.70	39.95	9.16	41.24	50.57	68.20	-17.63	Peak

U-NII-1		Worst mode: 802.11a					Test channel: CH _H			
Polarization:					Horizontal					
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	2818.01	43.24	28.34	4.59	40.89	35.28	68.20	-32.92	Peak	
2	5060.69	41.40	31.76	6.36	39.90	39.62	68.20	-28.58	Peak	
3	8002.06	41.48	37.00	8.41	39.21	47.68	68.20	-20.52	Peak	
4	11457.21	41.40	40.46	9.27	40.05	51.08	68.20	-17.12	Peak	
Polarization:					Vertical					
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	2861.38	43.94	28.42	4.61	40.87	36.10	68.20	-32.10	Peak	
2	5034.99	41.07	31.61	6.33	39.90	39.11	68.20	-29.09	Peak	
3	8506.17	42.75	37.21	8.57	39.31	49.22	68.20	-18.98	Peak	
4	10480.59	44.91	39.98	9.18	41.27	52.80	68.20	-15.40	Peak	

U-NII-1		Worst mode: 802.11n(HT20)					Test channel: CH _L		
Polarization:					Horizontal				
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	2868.67	42.76	28.44	4.62	40.87	34.95	68.20	-33.25	Peak
2	5448.41	40.00	31.79	6.81	39.49	39.11	68.20	-29.09	Peak
3	8022.46	42.23	37.00	8.42	39.20	48.45	68.20	-19.75	Peak
4	10916.26	41.18	40.50	8.95	40.72	49.91	68.20	-18.29	Peak
Polarization:					Vertical				
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	2898.03	43.23	28.50	4.63	40.86	35.50	68.20	-32.70	Peak
2	5125.52	40.48	31.95	6.43	39.90	38.96	68.20	-29.24	Peak
3	8063.40	41.30	37.00	8.39	39.21	47.48	68.20	-20.72	Peak
4	10374.42	44.94	39.82	9.10	41.12	52.74	68.20	-15.46	Peak

U-NII-1		Worst mode: 802.11n(HT20)				Test channel: CH _M			
Polarization:					Horizontal				
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	2818.01	43.39	28.34	4.59	40.89	35.43	68.20	-32.77	Peak
2	5086.52	40.86	31.92	6.39	39.90	39.27	68.20	-28.93	Peak
3	7961.43	42.08	36.92	8.33	39.25	48.08	68.20	-20.12	Peak
4	11457.21	40.25	40.46	9.27	40.05	49.93	68.20	-18.27	Peak
Polarization:					Vertical				
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	2803.70	43.24	28.31	4.58	40.90	35.23	68.20	-32.97	Peak
2	4946.07	41.23	31.20	6.35	39.97	38.81	68.20	-29.39	Peak
3	8002.06	41.79	37.00	8.41	39.21	47.99	68.20	-20.21	Peak
4	10453.95	44.68	39.95	9.16	41.24	52.55	68.20	-15.65	Peak

U-NII-1		Worst mode: 802.11n(HT20)					Test channel: CH _H		
Polarization:					Horizontal				

Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	2789.46	43.64	28.24	4.56	40.91	35.53	68.20	-32.67	Peak
2	5125.52	41.25	31.95	6.43	39.90	39.73	68.20	-28.47	Peak
3	8506.17	41.80	37.21	8.57	39.31	48.27	68.20	-19.93	Peak
4	10480.59	43.73	39.98	9.18	41.27	51.62	68.20	-16.58	Peak
Polarization:					Vertical				

Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	2868.67	43.86	28.44	4.62	40.87	36.05	68.20	-32.15	Peak
2	5177.97	40.72	31.73	6.56	39.90	39.11	68.20	-29.09	Peak
3	8484.55	42.61	37.11	8.58	39.30	49.00	68.20	-19.20	Peak
4	10507.31	45.41	40.00	9.20	41.29	53.32	68.20	-14.88	Peak

U-NII-1		Worst mode: 802.11n(HT40)					Test channel: CH _L		
Polarization:					Horizontal				
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	2905.42	43.22	28.50	4.64	40.85	35.51	68.20	-32.69	Peak
2	5420.74	40.77	31.68	6.79	39.51	39.73	68.20	-28.47	Peak
3	7921.00	42.26	36.73	8.25	39.30	47.94	68.20	-20.26	Peak
4	10400.86	45.60	39.90	9.12	41.16	53.46	68.20	-14.74	Peak
Polarization:					Vertical				
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	2861.38	43.46	28.42	4.61	40.87	35.62	68.20	-32.58	Peak
2	4895.97	41.62	31.20	6.38	40.02	39.18	68.20	-29.02	Peak
3	7099.75	42.65	35.70	7.75	38.90	47.20	68.20	-21.00	Peak
4	10400.86	45.51	39.90	9.12	41.16	53.37	68.20	-14.83	Peak

U-NII-1		Worst mode: 802.11n(HT40)					Test channel: CH _H		
Polarization:					Horizontal				
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	2796.57	43.35	28.28	4.57	40.90	35.30	68.20	-32.90	Peak
2	5047.83	41.07	31.69	6.34	39.90	39.20	68.20	-29.00	Peak
3	8506.17	42.58	37.21	8.57	39.31	49.05	68.20	-19.15	Peak
4	11428.08	40.80	40.43	9.24	40.09	50.38	68.20	-17.82	Peak
Polarization:					Vertical				
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	2846.85	43.06	28.39	4.60	40.88	35.17	68.20	-33.03	Peak
2	5138.58	40.89	31.92	6.46	39.90	39.37	68.20	-28.83	Peak
3	7961.43	42.15	36.92	8.33	39.25	48.15	68.20	-20.05	Peak
4	10480.59	44.85	39.98	9.18	41.27	52.74	68.20	-15.46	Peak

Remark:

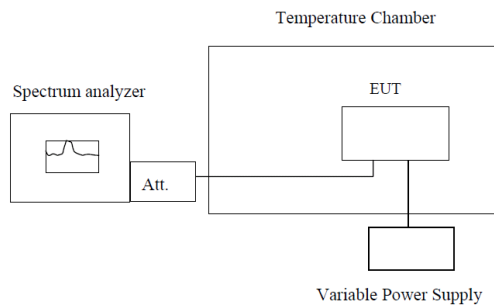
1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. The emission levels of other frequencies are very lower than the limit and not show in test report.
3. Measuring frequencies from 1 GHz to 40GHz.
4. Pre-tested all modulations for 802.11a, 802.11n mode, only worst case is reported

5.9. Frequency stability

LIMIT

Within Operation Band

TEST CONFIGURATION



Note : Measurement setup for testing on Antenna connector

TEST PROCEDURE

1. The equipment under test was connected to an external power supply.
2. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators.
3. The EUT was placed inside the temperature chamber.
4. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 25°C operating frequency as reference frequency.
5. Turn EUT off and set the chamber temperature to -20°C. After the temperature stabilized for approximately 30 minutes recorded the frequency.
6. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached..

TEST MODE:

Please refer to the clause 4.3

TEST RESULT

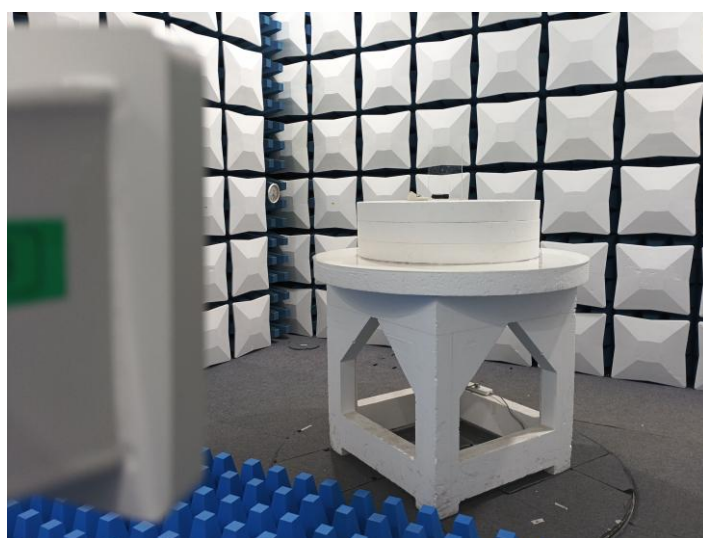
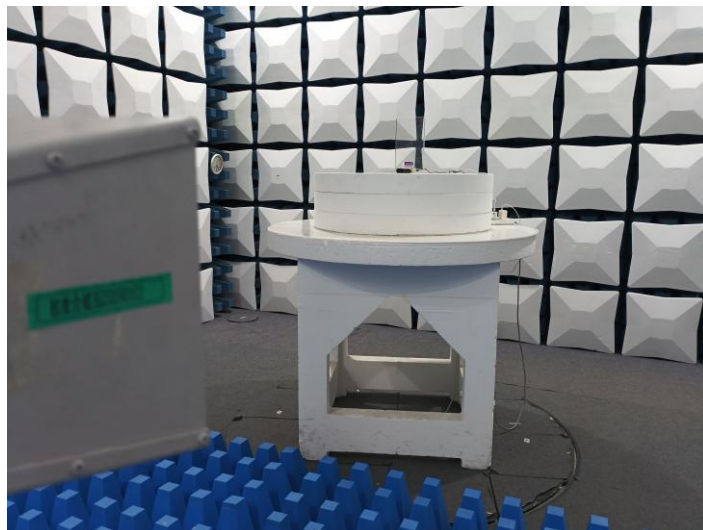
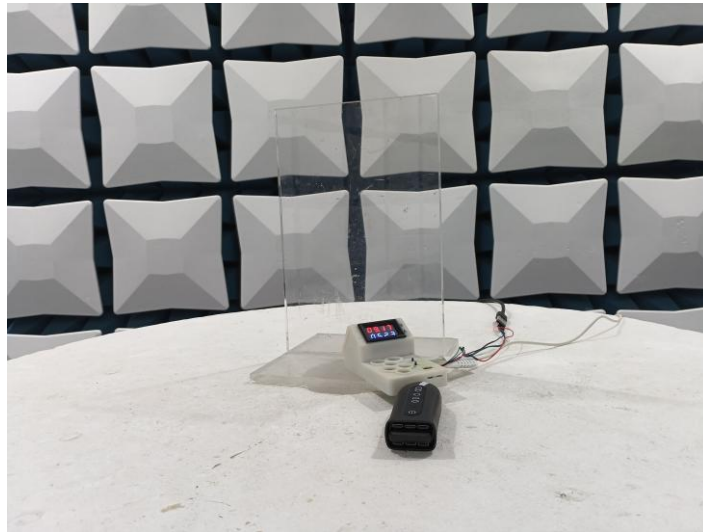
☒ Passed ☐ Not Applicable

Refer to the appendix report on the section 8

6. TEST SETUP PHOTOS

Radiated Emission





AC Conducted Emission



7. EXTERNAL AND INTERNAL PHOTOS

Refer to the test report No. CHTW26065080

8. APPENDIX REPORT