

TEST REPORT

For WiFi-2.4GHz Band

Report No. : **CHTEW22060042** **Report Verification:** 

Project No. : **SHT2109010007EW**

FCC ID : **2A6LY-0001**

Applicant's name : **Resvent Medical Technology Co., Ltd.**

Address : BC601, BC602, Gaoxinqi Factory, District 67, Xingdong Community, Xin'an Street, Bao'an District, 518100 Shenzhen, PEOPLE'S REPUBLIC OF CHINA

Product Name : **RXiBreeze PAP System**

Trade Mark : -

Model No. : RXiBreeze 20A

Listed Model(s) : RXiBreeze 20C

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

Date of receipt of test sample : May 24, 2022

Date of testing : May 24, 2022- Jun.06, 2022

Date of issue : Jun.07, 2022

Result : **PASS**

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

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1. TEST STANDARDS AND REPORT VERSION

1.1. Test Standards

The tests were performed according to following standards:

- [FCC Rules Part 15.247](#): Frequency Hopping, Direct Spread Spectrum and Hybrid Systems that are in operation within the bands of 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz
- [ANSI C63.10:2013](#): American National Standard for Testing Unlicensed Wireless Devices
- [KDB 558074 D01 15.247 Meas Guidance v05r02](#): Guidance for Compliance Measurements on Digital Transmission System, Frequency Hopping Spread Spectrum System, and Hybrid System Devices Operating under Section 15.247 of The FCC Rules

1.2. Report version

Revision No.	Date of issue	Description
N/A	2022-06-07	Original

2. TEST DESCRIPTION

Report clause	Test Items	Standard Requirement	Result	Test Engineer
5.1	Antenna Requirement	15.203/15.247(c)	PASS	Xiaoqin Li
5.2	AC Conducted Emission	15.207	PASS	Pan Xie
5.3	Peak Output Power	15.247(b)(3)	PASS	Xiaoqin Li
5.4	Power Spectral Density	15.247(e)	PASS	Xiaoqin Li
5.5	6dB Bandwidth	15.247(a)(2)	PASS	Xiaoqin Li
5.6	99% Occupied Bandwidth	-	PASS ^{*1}	Xiaoqin Li
5.7	Duty cycle	-	PASS ^{*1}	Xiaoqin Li
5.8	Conducted Band Edge and Spurious Emission	15.247(d)/15.205	PASS	Xiaoqin Li
5.9	Radiated Band Edge Emission	15.205/15.209	PASS	Xiaoqin Li
5.10	Radiated Spurious Emission	15.247(d)/15.205/15.209	PASS	Hongbin Zhong

Note:

- The measurement uncertainty is not included in the test result.
- ^{*1}: No requirement on standard, only report these test data.

3. SUMMARY

3.1. Client Information

Applicant:	Resvent Medical Technology Co., Ltd.
Address:	BC601, BC602, Gaoxinqi Factory, District 67, Xingdong Community,Xin'an Street, Bao'an District, 518100 Shenzhen, PEOPLE'S REPUBLIC OF CHINA
Manufacturer:	Resvent Medical Technology Co., Ltd.
Address:	BC601, BC602, Gaoxinqi Factory, District 67, Xingdong Community,Xin'an Street, Bao'an District, 518100 Shenzhen, PEOPLE'S REPUBLIC OF CHINA
Factory:	Resvent Medical Technology Co., Ltd.
Address:	BC601, BC602, Gaoxinqi Factory, District 67, Xingdong Community,Xin'an Street, Bao'an District, 518100 Shenzhen, PEOPLE'S REPUBLIC OF CHINA

3.2. Product Description

Main unit information:	
Product Name:	RXiBreeze PAP System
Trade Mark:	-
Model No.:	RXiBreeze 20A
Listed Model(s):	RXiBreeze 20C
Power supply:	AC 100-240V
Hardware version:	1.0
Software version:	V01.00.00
Accessory unit information:	
Adapter information1:	Model: MDA60-220S24-W1 Input: 100-240Va.c.,1.18-0.56A 50/60Hz 2A Max Output: 24Vd.c.,2.5A
Adapter information2:	Model: LXCP61(II)-024300 Input: 100-240Va.c.,50/60Hz 1.5A Max Output: 24.0Vd.c.,3.0A

3.3. Radio Specification Description

Support type ^{*2} :	☒ 802.11b	☒ 802.11g	☒ 802.11n
Support bandwidth:	☒ 20MHz	☐ 40MHz	
Modulation:	802.11b:	DBPSK, DQPSK, BPSK, QPSK	
	802.11g/n:	BPSK, QPSK, 16QAM, 64QAM	
Operation frequency:	802.11b/g/n(HT20):	2412MHz~2462MHz	
Channel number:	802.11b/g/n(HT20):	11	
Channel separation:	5MHz		
Antenna technology:	☒ SISO	☐ MIMO	
Antenna type:	FPC Antenna		
Antenna gain:	2.5dBi		

Note:

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

3.4. Testing Laboratory Information

Laboratory Name	Shenzhen Huatongwei International Inspection Co., Ltd.	
Laboratory Location	1/F, Bldg 3, Hongfa Hi-tech Industrial Park, Genyu Road, Tianliao, Gongming, Shenzhen, China	
Connect information:	Phone: 86-755-26715499 E-mail: cs@szhtw.com.cn http://www.szhtw.com.cn	
Qualifications	Type	Accreditation Number
	FCC	762235

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 blue front.

802.11b/g/n(HT20)	
Channel	Frequency (MHz)
01	2412
02	2417
· :	· :
06	2437
· :	· :
10	2457
11	2462

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
802.11b	1Mbps
802.11g	6Mbps
802.11n(HT20)	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
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	YPHT21090100006
RF Radiated test items	YPHT21090100005
EMI test items	YPHT21090100001

Note:

RF Conducted test items: Peak Output Power, Power Spectral Density, 6dB Bandwidth, 99% Occupied Bandwidth, Duty cycle, Conducted Band Edge and Spurious Emission

RF Radiated test items: Radiated Band Edge Emission, 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

Test Item	Measurement Uncertainty
AC Conducted Emission (150kHz~30MHz)	3.00 dB
Radiated Emission (30MHz~1000MHz)	4.36 dB
Radiated Emissions (1GHz~25GHz)	5.10 dB
Peak Output Power	0.77dB
Power Spectral Density	0.77dB
Conducted Spurious Emission	0.77dB
6dB Bandwidth	70Hz for <1GHz 130Hz for >1GHz

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

● Conducted Emission							
Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
●	Shielded Room	Albatross projects	HTWE0114	N/A	N/A	2018/09/28	2023/09/27
●	EMI Test Receiver	R&S	HTWE0111	ESCI	101247	2021/09/14	2022/09/13
●	Artificial Mains	SCHWARZBECK	HTWE0113	NNLK 8121	573	2021/09/17	2022/09/16
●	Pulse Limiter	R&S	HTWE0193	ESH3-Z2	101447	2021/09/16	2022/09/15
●	RF Connection Cable	HUBER+SUHNER	HTWE0113-02	ENVIROFLEX 142	EF-NM-BNCM-2M	2021/09/17	2022/09/16
●	Test Software	R&S	N/A	ES-K1	N/A	N/A	N/A

● Radiated emission-6th test site							
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	2018/09/30	2022/09/29
●	EMI Test Receiver	R&S	HTWE0099	ESCI	100900	2021/09/14	2022/09/13
●	Loop Antenna	R&S	HTWE0170	HFH2-Z2	100020	2021/04/06	2024/04/05
●	Ultra-Broadband Antenna	SCHWARZBECK	HTWE0123	VULB9163	538	2021/04/06	2024/04/05
●	Pre-Amplifier	SCHWARZBECK	HTWE0295	BBV 9742	N/A	2021/11/05	2022/11/04
●	RF Connection Cable	HUBER+SUHNER	HTWE0062-01	N/A	N/A	2022/02/25	2023/02/24
●	RF Connection Cable	HUBER+SUHNER	HTWE0062-02	SUCOFLEX104	501184/4	2022/02/25	2023/02/24
●	Test Software	R&S	N/A	ES-K1	N/A	N/A	N/A

● Radiated emission-7th test site							
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	HTWE0122	SAC-3m-01	C11121	2018/09/27	2022/09/26
●	Spectrum Analyzer	R&S	HTWE0098	FSP40	100597	2021/09/13	2022/09/12
●	Horn Antenna	SCHWARZBECK	HTWE0126	9120D	1011	2020/04/01	2023/03/31
●	Broadband Horn Antenna	SCHWARZBECK	HTWE0103	BBHA9170	BBHA9170472	2020/04/27	2023/04/26
●	Pre-amplifier	CD	HTWE0071	PAP-0102	12004	2021/11/05	2022/11/04
●	Broadband Pre-amplifier	SCHWARZBECK	HTWE0201	BBV 9718	9718-248	2022/02/28	2023/02/27
●	RF Connection Cable	HUBER+SUHNER	HTWE0120-01	6m 18GHz S Serisa	N/A	2022/02/25	2023/02/24
●	RF Connection Cable	HUBER+SUHNER	HTWE0120-02	6m 3GHz RG Serisa	N/A	2022/02/25	2023/02/24
●	RF Connection Cable	HUBER+SUHNER	HTWE0119-05	6m 3GHz RG Serisa	N/A	2022/02/25	2023/02/24
●	RF Connection Cable	HUBER+SUHNER	HTWE0120-04	6m 3GHz RG Serisa	N/A	2022/02/25	2023/02/24
●	Test Software	Audix	N/A	E3	N/A	N/A	N/A

● RF Conducted Method						
Used	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
●	Signal and spectrum Analyzer	R&S	FSV40	100048	2021/09/13	2022/09/12
●	Spectrum Analyzer	Agilent	N9020A	MY50510187	2021/09/13	2022/09/12
●	Power Meter	Anritsu	ML249A	N/A	2021/09/13	2022/09/12
○	Radio communication tester	R&S	CMW500	137688-Lv	2021/09/13	2022/09/12

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.

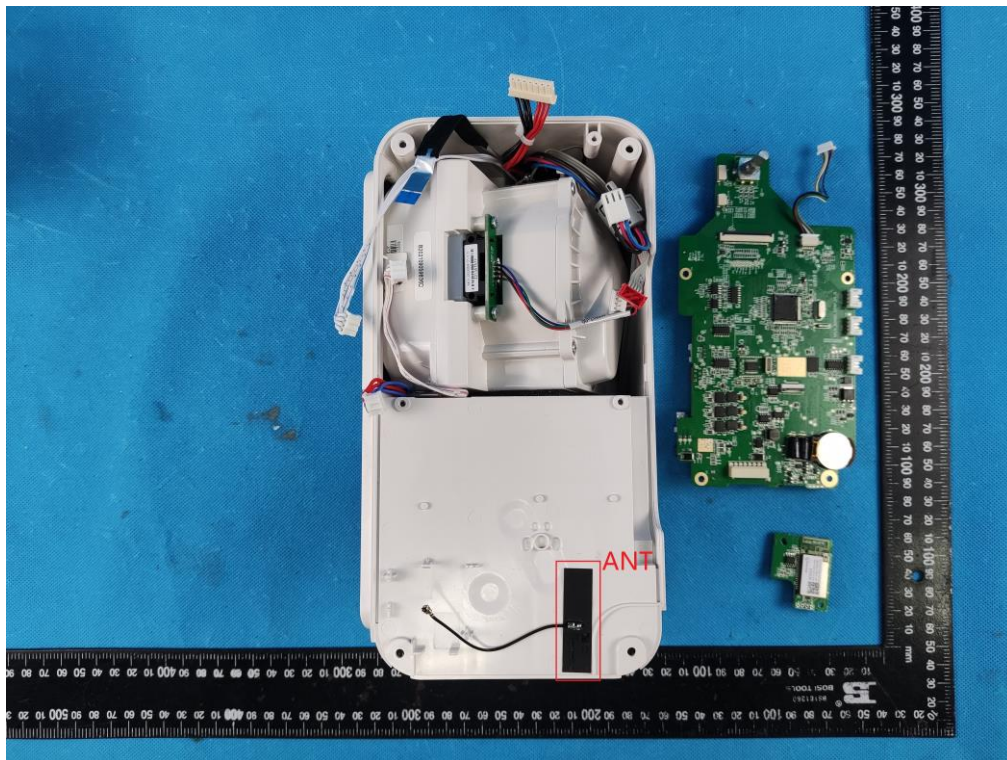
FCC CFR Title 47 Part 15 Subpart C Section 15.247(c) (1)(i):

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

TEST RESULT

☒ Passed ☐ Not Applicable

The antenna type is a FPC antenna, the directional gain of the antenna less than 6 dBi, please refer to the below antenna photo.



5.2. AC Conducted Emission

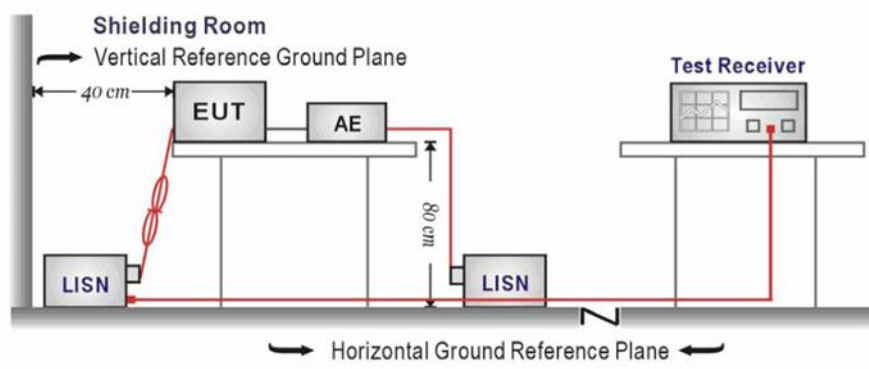
LIMIT

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 4.2

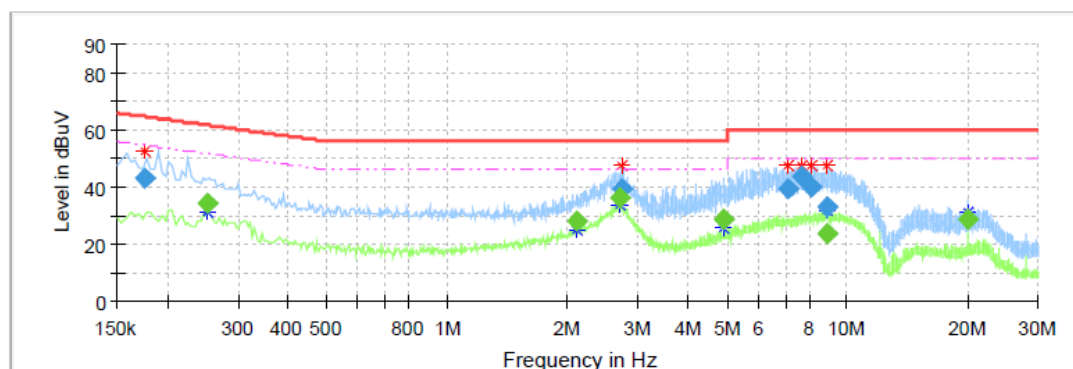
TEST RESULT

☒ Passed ☐ Not Applicable

Adapter1

Test Line:

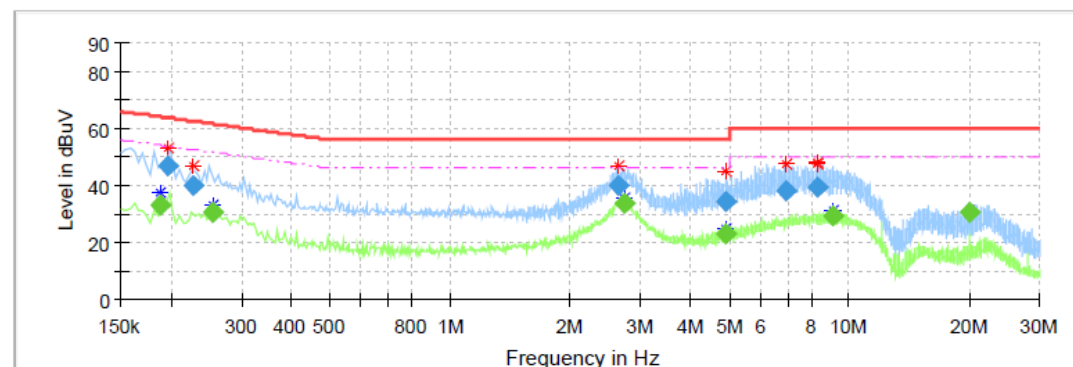
L

**Final Result**

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Corr. (dB)
0.175500	43.37	---	64.70	21.33	L1	10.1
0.251500	---	34.48	51.71	17.23	L1	10.1
2.119500	---	27.87	46.00	18.13	L1	10.1
2.707500	---	36.26	46.00	9.74	L1	10.2
2.719500	39.59	---	56.00	16.41	L1	10.2
4.911500	---	29.06	46.00	16.94	L1	10.3
7.135500	39.36	---	60.00	20.64	L1	10.4
7.683500	43.99	---	60.00	16.01	L1	10.4
8.159500	39.96	---	60.00	20.04	L1	10.4
8.879500	---	23.69	50.00	26.31	L1	10.5
8.883500	33.17	---	60.00	26.83	L1	10.5
20.003500	---	28.70	50.00	21.30	L1	10.8

Test Line:

N

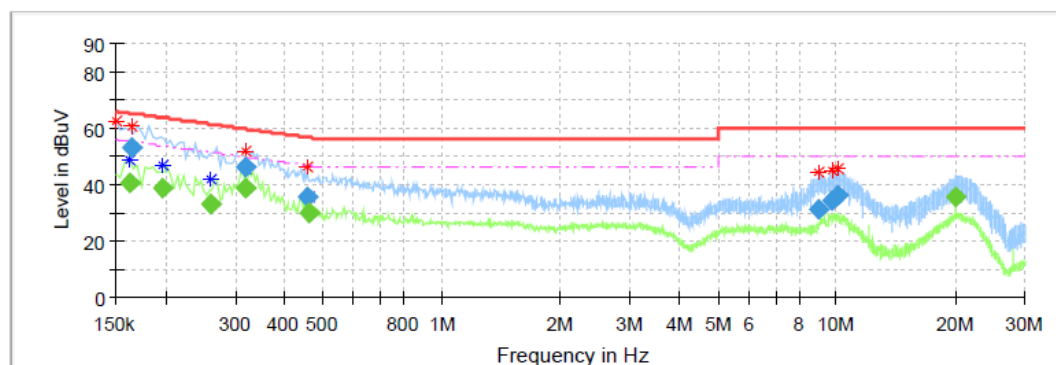
**Final Result**

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Corr. (dB)
0.187500	---	33.22	54.15	20.92	N	10.1
0.195500	46.71	---	63.80	17.08	N	10.1
0.227500	39.82	---	62.54	22.72	N	10.1
0.255500	---	30.81	51.58	20.77	N	10.1
2.640500	40.17	---	56.00	15.83	N	10.1
2.736500	---	34.02	46.00	11.98	N	10.1
4.899500	---	22.90	46.00	23.10	N	10.3
4.923500	34.36	---	56.00	21.64	N	10.3
6.983500	38.08	---	60.00	21.92	N	10.4
8.363500	39.49	---	60.00	20.51	N	10.3
9.079500	---	29.27	50.00	20.73	N	10.3
20.003500	---	30.48	50.00	19.52	N	10.7

Adapter2

Test Line:

L

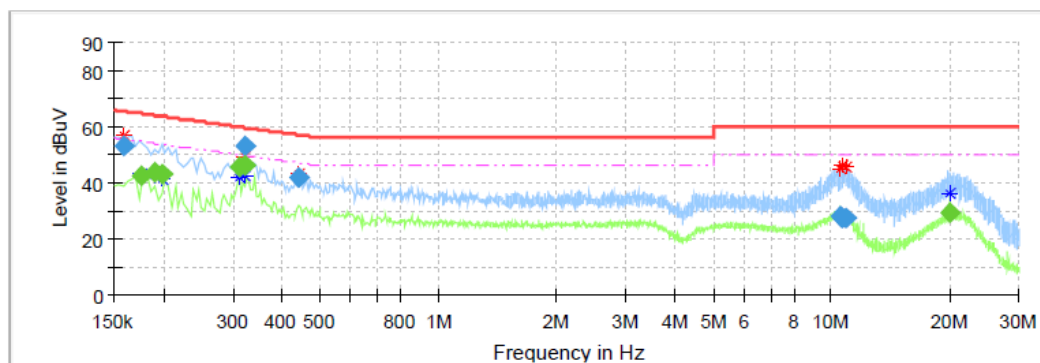


Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Corr. (dB)
0.162000	---	40.68	55.36	14.69	L1	10.1
0.163500	52.83	---	65.28	12.45	L1	10.1
0.195500	---	38.56	53.80	15.24	L1	10.1
0.259500	---	33.39	51.45	18.05	L1	10.1
0.319500	---	38.71	49.72	11.01	L1	10.1
0.319500	45.96	---	59.72	13.76	L1	10.1
0.455500	35.78	---	56.77	21.00	L1	10.1
0.463500	---	29.87	46.63	16.76	L1	10.1
8.991500	30.98	---	60.00	29.02	L1	10.5
9.731500	34.07	---	60.00	25.93	L1	10.5
10.071500	36.21	---	60.00	23.79	L1	10.5
20.003500	---	35.55	50.00	14.45	L1	10.8

Test Line:

N



Final Result

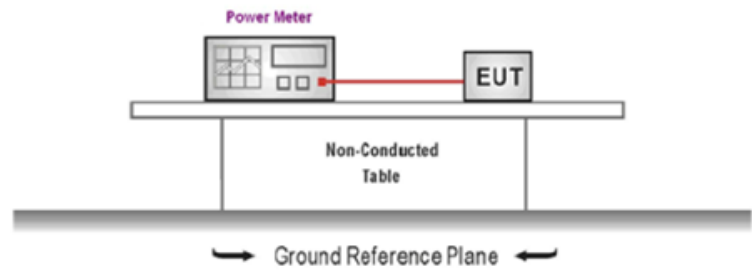
Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Corr. (dB)
0.158000	52.86	---	65.57	12.71	N	10.1
0.175500	---	42.55	54.70	12.15	N	10.1
0.190000	---	44.05	54.04	9.99	N	10.1
0.199500	---	43.27	53.63	10.36	N	10.1
0.311500	---	45.52	49.93	4.41	N	10.1
0.323500	52.99	---	59.62	6.63	N	10.1
0.323500	---	46.21	49.62	3.40	N	10.1
0.443500	41.95	---	57.00	15.05	N	10.1
10.499500	28.09	---	60.00	31.91	N	10.2
10.604500	27.56	---	60.00	32.44	N	10.2
10.867500	27.31	---	60.00	32.69	N	10.3
19.999500	---	29.36	50.00	20.64	N	10.7

5.3. Peak Output Power

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (b)(3): 30dBm

TEST CONFIGURATION



TEST PROCEDURE

1. The EUT was tested according to ANSI C63.10 and KDB 558074 D01 requirements.
2. The maximum peak conducted output power may be measured using a broadband peak RF power meter.
3. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall utilize a fast-responding diode detector.
4. Record the measurement data.

TEST MODE

Please refer to the clause 4.2

TEST RESULT

☒ Passed ☐ Not Applicable

TEST DATA

Please refer to appendix A on the appendix report

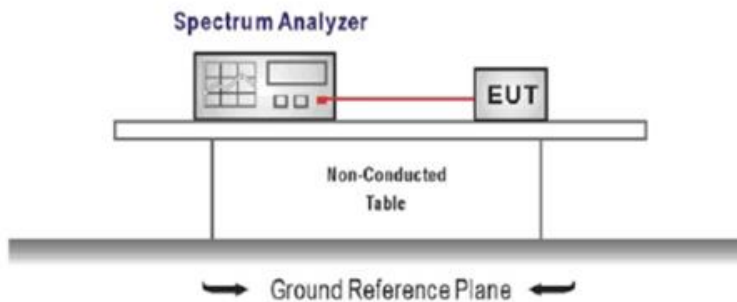
5.4. Power Spectral Density

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (e):

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3 kHz band during any time interval of continuous transmission.

TEST CONFIGURATION



TEST PROCEDURE

1. Connect the antenna port(s) to the spectrum analyzer input,
2. Configure the spectrum analyzer as shown below:
Center frequency=DTS channel center frequency
Span =1.5 times the DTS bandwidth
 $RBW = 3 \text{ kHz} \leq RBW \leq 100 \text{ kHz}$, $VBW \geq 3 \times RBW$
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. Use the peak marker function to determine the maximum amplitude level within the RBW.
5. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

TEST MODE

Please refer to the clause 4.2

TEST RESULT

☒ Passed ☐ Not Applicable

TEST DATA

Please refer to appendix B on the appendix report

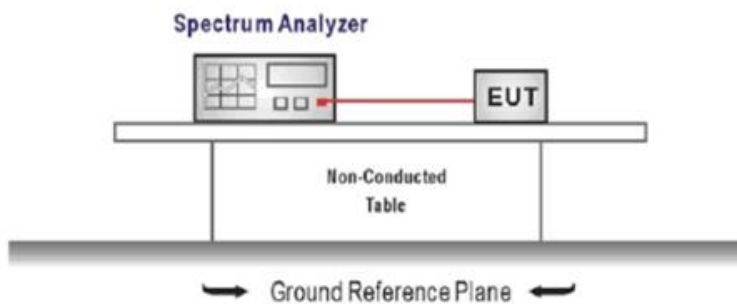
5.5. 6dB bandwidth

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (a)(2):

For digital modulation systems, the minimum 6 dB bandwidth shall be at least 500 kHz.

TEST CONFIGURATION



TEST PROCEDURE

1. 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 = DTS channel center frequency
Span = 2 x DTS 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 waveform 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 4.2

TEST RESULT

☒ Passed ☐ Not Applicable

TEST DATA

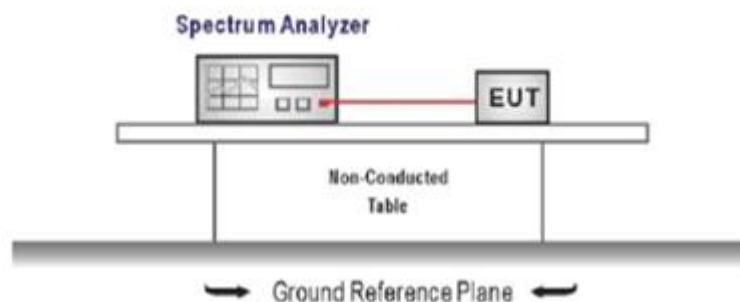
Please refer to appendix C on the appendix report

5.6. 99% Occupied Bandwidth

LIMIT

N/A

TEST CONFIGURATION



TEST PROCEDURE

1. 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 = channel center frequency
Span $\geq 1.5 \times \text{OBW}$
RBW = 1%~5%OBW
VBW $\geq 3 \times \text{RBW}$
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 waveform on the spectrum analyzer.

TEST MODE

Please refer to the clause 4.2

TEST RESULT

☒ Passed ☐ Not Applicable

TEST DATA

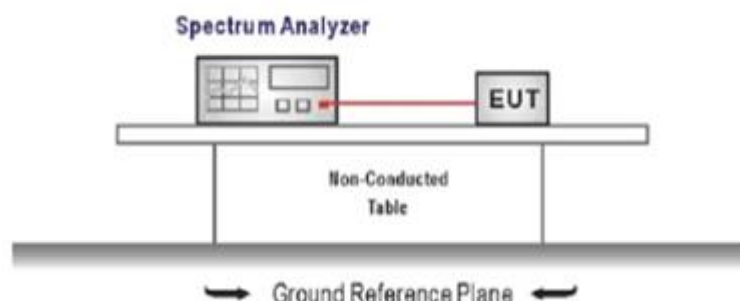
Please refer to appendix D on the appendix report

5.7. Duty Cycle

LIMIT

N/A

TEST CONFIGURATION



TEST PROCEDURE

1. The transmitter output was connected to the spectrum analyzer through an attenuator, the path loss was compensated to the results for each measurement.
2. Set to the maximum power setting and enable the EUT transmit continuously
3. Use the following spectrum analyzer settings:
Span=zero span, Frequency=centered channel, RBW= 1 MHz, VBW $\geq$ RBW
Sweep=as necessary to capture the entire dwell time,
Detector function = peak, Trigger mode
4. Measure and record the duty cycle data

TEST MODE

Please refer to the clause 4.2

TEST DATA

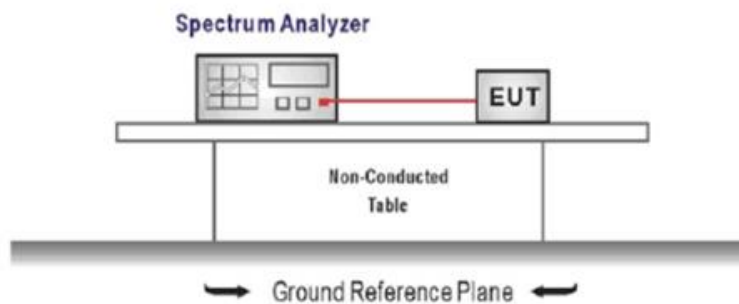
Please refer to appendix E on the appendix report

5.8. Conducted Band edge and Spurious Emission

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (d): In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

TEST CONFIGURATION



TEST PROCEDURE

1. Connect the antenna port(s) to the spectrum analyzer input.
2. Establish a reference level by using the following procedure
Center frequency=DTS channel center frequency
The span = 1.5 times the DTS bandwidth.
RBW = 100 kHz, VBW $\geq 3 \times$ RBW
Detector = peak, Sweep time = auto couple, Trace mode = max hold
Allow trace to fully stabilize
Use the peak marker function to determine the maximum PSD level

Note that the channel found to contain the maximum PSD level can be used to establish the reference level.

3. Emission level measurement
Set the center frequency and span to encompass frequency range to be measured
RBW = 100 kHz, VBW $\geq 3 \times$ RBW
Detector = peak, Sweep time = auto couple, Trace mode = max hold
Allow trace to fully stabilize
Use the peak marker function to determine the maximum amplitude level.
4. Place the radio in continuous transmit mode, allow the trace to stabilize, view the transmitter waveform on the spectrum analyzer.
5. Ensure that the amplitude of all unwanted emission outside of the authorized frequency band excluding restricted frequency bands) are attenuated by at least the minimum requirements specified (at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz). Report the three highest emission relative to the limit.

TEST MODE

Please refer to the clause 4.2

TEST RESULT

☒ **Passed** ☐ **Not Applicable**

TEST DATA

Please refer to appendix F on the appendix report

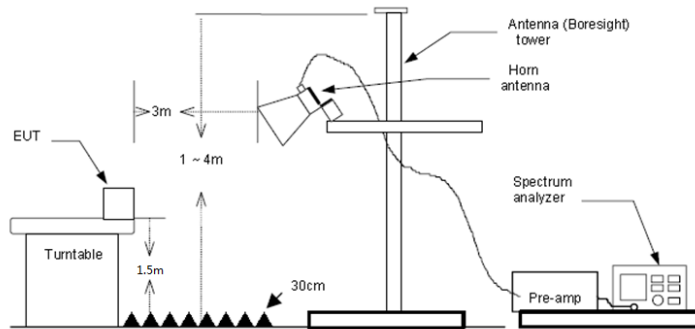
5.9. Radiated Band edge Emission

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (d):

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, Radiated Emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the Radiated Emissions limits specified in §15.209(a) (see §15.205(c)).

TEST CONFIGURATION



TEST PROCEDURE

1. The EUT was setup and tested according to ANSI C63.10 .
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 on radiated measurement.
5. Use the following spectrum analyzer settings:
 - a) Span shall wide enough to fully capture the emission being measured
 - b) Set RBW=100kHz for <1GHz, VBW=3*RBW, Sweep time=auto, Detector=peak, Trace=max hold
 - c) Set RBW=1MHz, VBW=3MHz for >1GHz, Sweep time=auto, Detector=peak, Trace=max hold for Peak measurement

For average measurement:

 - VBW=10Hz, When duty cycle is no less than 98 percent
 - VBW $\geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation, so refer to this clause 5.6 duty cycle.

TEST MODE

Please refer to the clause 4.2

TEST RESULT

☒ Passed ☐ Not Applicable

Note:

- 1) Level= Reading + Factor; Factor =Antenna Factor+ Cable Loss- Preamp Factor
- 2) Over Limit = Level– Limit
- 3) Average measurement was not performed if peak level is lower than average limit(54 dBuV/m).

Type	802.11b		Test channel		CH01		Polarity		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	2310.00	37.72	27.96	5.43	37.56	20.00	53.55	74.00	-20.45	Peak
2	2390.01	38.31	27.72	5.53	37.45	20.00	54.11	74.00	-19.89	Peak
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	2310.00	30.96	27.96	5.43	37.56	20.00	46.79	54.00	-7.21	Average
2	2390.01	31.58	27.72	5.53	37.45	20.00	47.38	54.00	-6.62	Average

Type	802.11b		Test channel		CH01		Polarity		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	2310.00	37.63	27.96	5.43	37.56	20.00	53.46	74.00	-20.54	Peak
2	2390.01	38.24	27.72	5.53	37.45	20.00	54.04	74.00	-19.96	Peak
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	2310.00	30.94	27.96	5.43	37.56	20.00	46.77	54.00	-7.23	Average
2	2390.01	31.07	27.72	5.53	37.45	20.00	46.87	54.00	-7.13	Average

Type	802.11b		Test channel		CH11		Polarity		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	2483.49	38.40	27.43	5.64	37.26	20.00	54.21	74.00	-19.79	Peak
2	2500.00	37.35	27.40	5.66	37.26	20.00	53.15	74.00	-20.85	Peak
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	2483.49	31.73	27.43	5.64	37.26	20.00	47.54	54.00	-6.46	Average
2	2500.00	30.38	27.40	5.66	37.26	20.00	46.18	54.00	-7.82	Average

Type	802.11b		Test channel		CH11		Polarity		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	2483.49	37.49	27.43	5.64	37.26	20.00	53.30	74.00	-20.70	Peak
2	2500.00	36.92	27.40	5.66	37.26	20.00	52.72	74.00	-21.28	Peak
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	2483.49	31.72	27.43	5.64	37.26	20.00	47.53	54.00	-6.47	Average
2	2500.00	30.33	27.40	5.66	37.26	20.00	46.13	54.00	-7.87	Average

Type	802.11g		Test channel		CH01		Polarity		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	2310.00	37.20	27.96	5.43	37.56	20.00	53.03	74.00	-20.97	Peak
2	2390.01	43.36	27.72	5.53	37.45	20.00	59.16	74.00	-14.84	Peak
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	2310.00	26.40	27.96	5.43	37.56	20.00	42.23	54.00	-11.77	Average
2	2390.01	28.59	27.72	5.53	37.45	20.00	44.39	54.00	-9.61	Average
Type	802.11g		Test channel		CH01		Polarity		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	2310.00	38.35	27.96	5.43	37.56	20.00	54.18	74.00	-19.82	Peak
2	2390.01	37.78	27.72	5.53	37.45	20.00	53.58	74.00	-20.42	Peak
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	2310.00	26.52	27.96	5.43	37.56	20.00	42.35	54.00	-11.65	Average
2	2390.01	26.76	27.72	5.53	37.45	20.00	42.56	54.00	-11.44	Average

Type	802.11g		Test channel		CH11		Polarity		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	2483.49	47.92	27.43	5.64	37.26	20.00	63.73	74.00	-10.27	Peak
2	2500.00	37.34	27.40	5.66	37.26	20.00	53.14	74.00	-20.86	Peak
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	2483.49	29.73	27.43	5.64	37.26	20.00	45.54	54.00	-8.46	Average
2	2500.00	26.56	27.40	5.66	37.26	20.00	42.36	54.00	-11.64	Average
Type	802.11g		Test channel		CH11		Polarity		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	2483.49	39.09	27.43	5.64	37.26	20.00	54.90	74.00	-19.10	Peak
2	2500.00	36.92	27.40	5.66	37.26	20.00	52.72	74.00	-21.28	Peak
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	2483.49	26.84	27.43	5.64	37.26	20.00	42.65	54.00	-11.35	Average
2	2500.00	26.02	27.40	5.66	37.26	20.00	41.82	54.00	-12.18	Average

Type	802.11n(HT20)		Test channel		CH01		Polarity		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	2310.00	37.45	27.96	5.43	37.56	20.00	53.28	74.00	-20.72	Peak
2	2388.17	45.10	27.72	5.52	37.45	20.00	60.89	74.00	-13.11	Peak
3	2390.01	41.98	27.72	5.53	37.45	20.00	57.78	74.00	-16.22	Peak
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	2310.00	26.48	27.96	5.43	37.56	20.00	42.31	54.00	-11.69	Average
2	2390.01	29.85	27.72	5.53	37.45	20.00	45.65	54.00	-8.35	Average

Type	802.11n(HT20)		Test channel		CH01		Polarity		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	2310.00	39.98	27.96	5.43	37.56	20.00	55.81	74.00	-18.19	Peak
2	2390.01	38.90	27.72	5.53	37.45	20.00	54.70	74.00	-19.30	Peak
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	2310.00	26.45	27.96	5.43	37.56	20.00	42.28	54.00	-11.72	Average
2	2390.01	27.20	27.72	5.53	37.45	20.00	43.00	54.00	-11.00	Average

Type	802.11n(HT20)		Test channel		CH11		Polarity		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	2483.49	43.35	27.43	5.64	37.26	20.00	59.16	74.00	-14.84	Peak
2	2484.05	46.67	27.43	5.64	37.26	20.00	62.48	74.00	-11.52	Peak
3	2500.00	37.96	27.40	5.66	37.26	20.00	53.76	74.00	-20.24	Peak
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	2483.49	30.78	27.43	5.64	37.26	20.00	46.59	54.00	-7.41	Average
2	2500.00	26.50	27.40	5.66	37.26	20.00	42.30	54.00	-11.70	Average

Type	802.11n(HT20)		Test channel		CH11		Polarity		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	2483.49	38.54	27.43	5.64	37.26	20.00	54.35	74.00	-19.65	Peak
2	2500.00	37.66	27.40	5.66	37.26	20.00	53.46	74.00	-20.54	Peak
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	2483.49	27.54	27.43	5.64	37.26	20.00	43.35	54.00	-10.65	Average
2	2487.67	29.69	27.42	5.65	37.26	20.00	45.50	54.00	-8.50	Average
3	2500.00	26.03	27.40	5.66	37.26	20.00	41.83	54.00	-12.17	Average

5.10. Radiated Spurious Emission

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.209

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

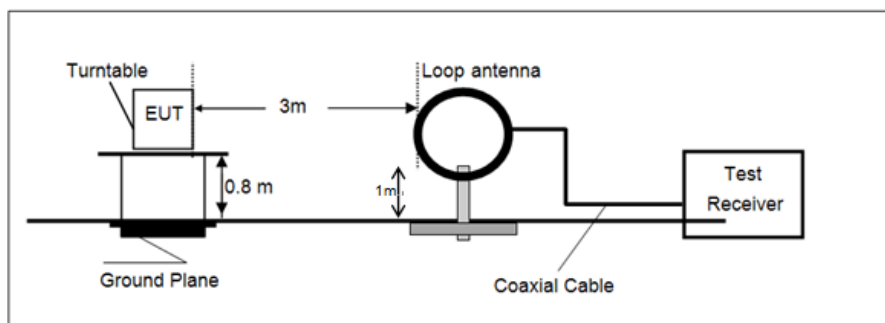
Note: Limit dBuV/m @3m = Limit dBuV/m @300m + 40*log(300/3)= Limit dBuV/m @300m +80,

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

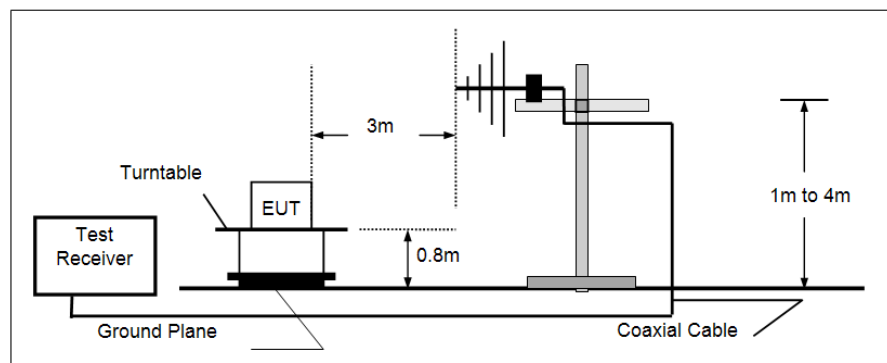
Frequency	Limit (dBuV/m @3m)	Value
30MHz~88MHz	40.00	Quasi-peak
88MHz~216MHz	43.50	Quasi-peak
216MHz~960MHz	46.00	Quasi-peak
960MHz~1GHz	54.00	Quasi-peak
Above 1GHz	54.00	Average
	74.00	Peak

TEST CONFIGURATION

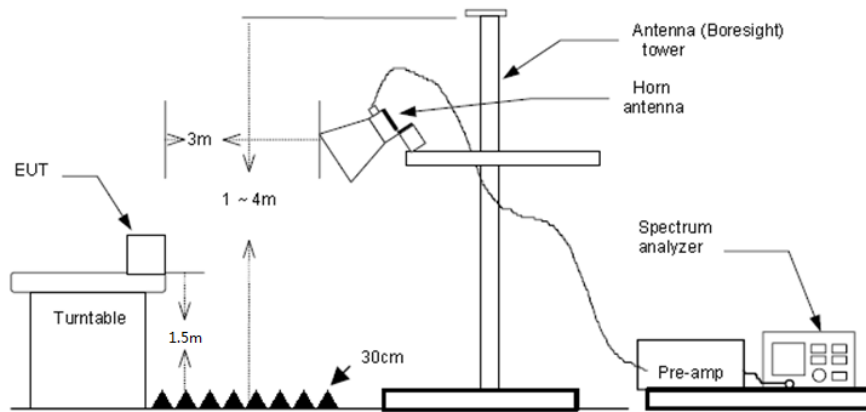
- 9 kHz ~ 30 MHz



- 30 MHz ~ 1 GHz



- Above 1 GHz



TEST PROCEDURE

1. The EUT was setup and tested according to ANSI C63.10 .
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) Set RBW=1MHz, VBW=3MHz for >1GHz, Sweep time=auto, Detector=peak, Trace=max hold for Peak measurement
 For average measurement:
 - VBW=10Hz, When duty cycle is no less than 98 percent
 - VBW $\geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation, so refer to this clause 5.6 duty cycle.

TEST MODE

Please refer to the clause 4.2

TEST RESULT

☒ Passed ☐ Not Applicable

Note:

- 1) Level= Reading + Factor/Transd; Factor/Transd =Antenna Factor+ Cable Loss- Preamp Factor
- 2) Over Limit = Level– Limit
- 3) Average measurement was not performed if peak level is lower than average limit(54 dBuV/m) for above 1GHz.

For 9 kHz ~ 30 MHz

The EUT was pre-scanned this frequency band, found the radiated level 20dB lower than the limit, so don't show data on this report.

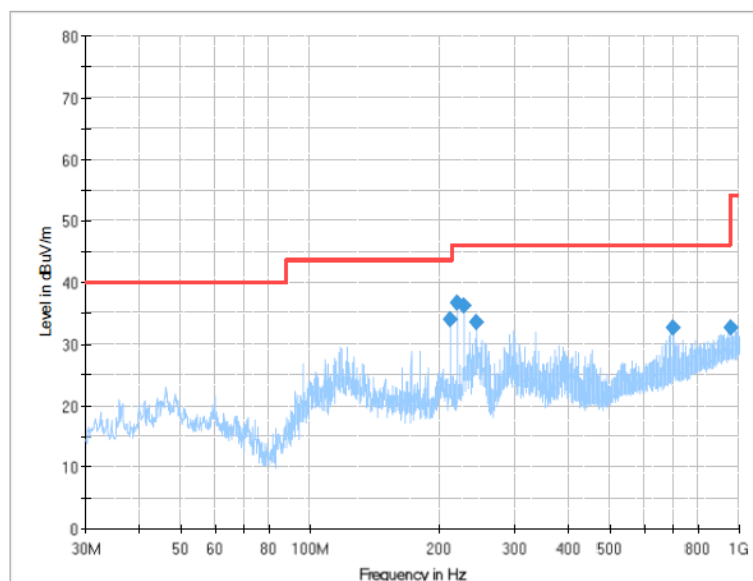
For 30 MHz ~ 1000 MHz

Have pre-scan all test channel, found CH06 of 802.11B which it was worst case, so only show the worst case's data on this report.

Adapter1

Polarization:

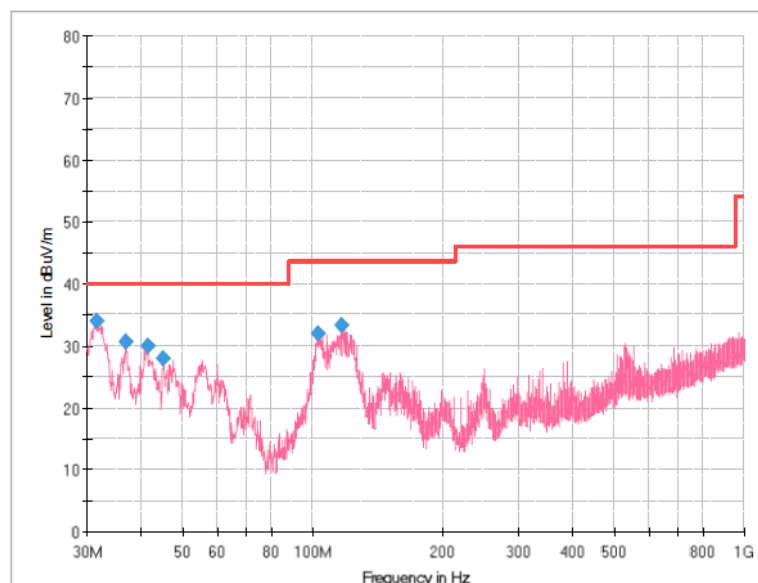
Horizontal

**Final Result**

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
211.996250	34.08	43.50	9.42	100.0	H	301.0	-10.1
219.998750	36.75	46.00	9.25	100.0	H	301.0	-10.1
228.001250	36.13	46.00	9.87	100.0	H	291.0	-9.7
244.006250	33.52	46.00	12.48	100.0	H	198.0	-9.0
704.150000	32.71	46.00	13.29	100.0	H	237.0	2.5
957.320000	32.59	46.00	13.41	100.0	H	0.0	7.8

Polarization:

Vertical

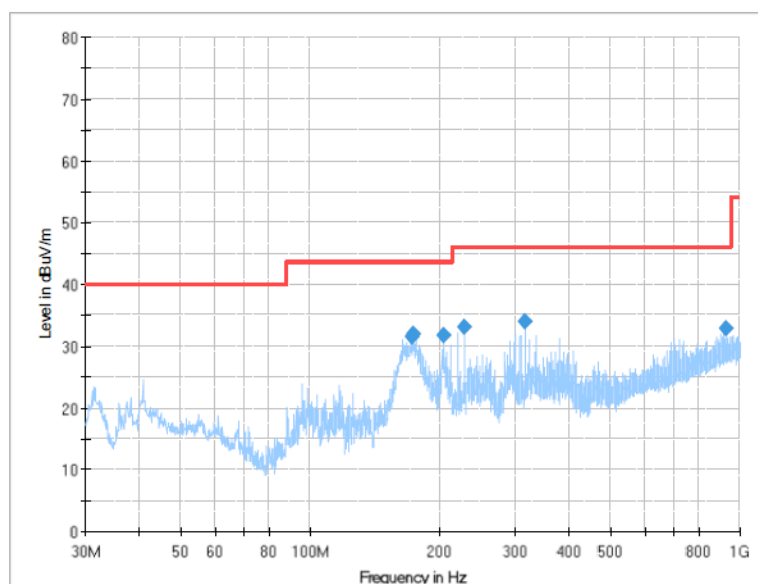
**Final Result**

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
31.576250	34.03	40.00	5.97	100.0	V	243.0	-12.2
36.790000	30.57	40.00	9.43	100.0	V	283.0	-10.6
41.518750	29.96	40.00	10.04	100.0	V	243.0	-9.6
45.156250	28.03	40.00	11.97	100.0	V	258.0	-9.4
102.992500	31.94	43.50	11.56	100.0	V	28.0	-11.0
117.057500	33.20	43.50	10.30	100.0	V	0.0	-12.5

Adapter2

Polarization:

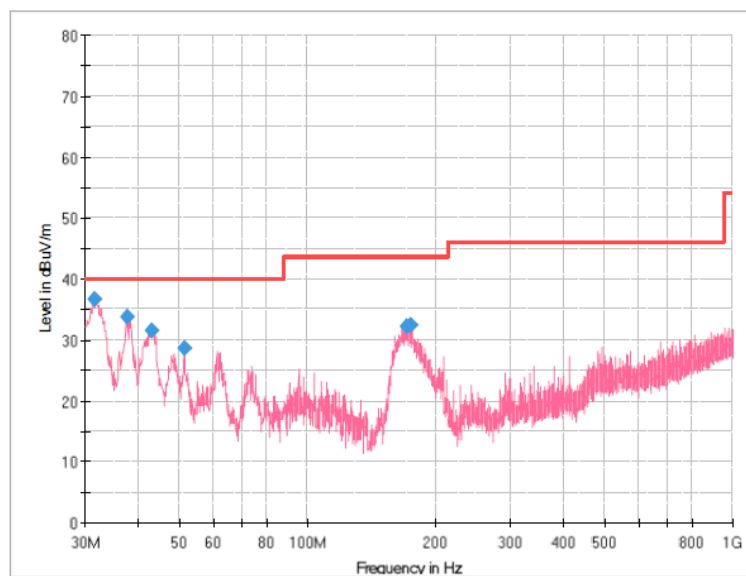
Horizontal

**Final Result**

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
171.983750	31.42	43.50	12.08	100.0	H	62.0	-13.0
174.045000	32.00	43.50	11.50	100.0	H	86.0	-12.8
204.600000	31.74	43.50	11.76	100.0	H	291.0	-10.0
228.001250	33.16	46.00	12.84	100.0	H	315.0	-9.7
316.150000	34.03	46.00	11.97	100.0	H	300.0	-6.7
926.886250	32.86	46.00	13.14	100.0	H	350.0	7.3

Polarization:

Vertical

**Final Result**

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
31.697500	36.65	40.00	3.35	100.0	V	80.0	-12.2
37.638750	33.63	40.00	6.37	100.0	V	22.0	-10.3
42.973750	31.45	40.00	8.55	100.0	V	294.0	-9.5
51.340000	28.54	40.00	11.46	100.0	V	10.0	-9.2
171.620000	32.11	43.50	11.39	100.0	V	137.0	-13.0
174.651250	32.38	43.50	11.12	100.0	V	137.0	-12.7

For 1 GHz ~ 25 GHz

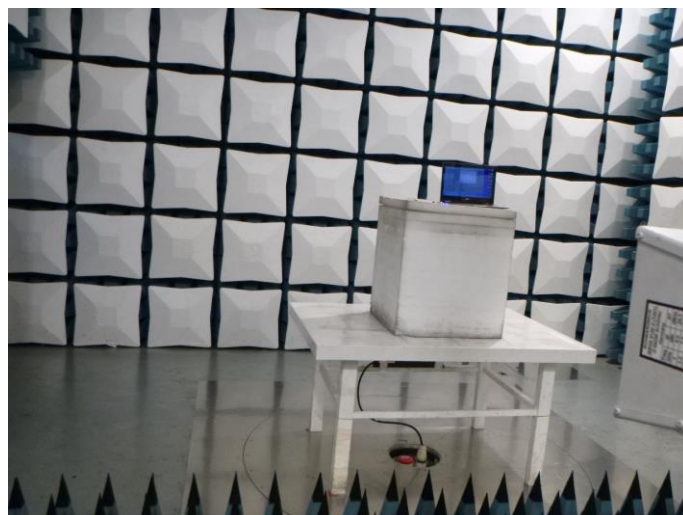
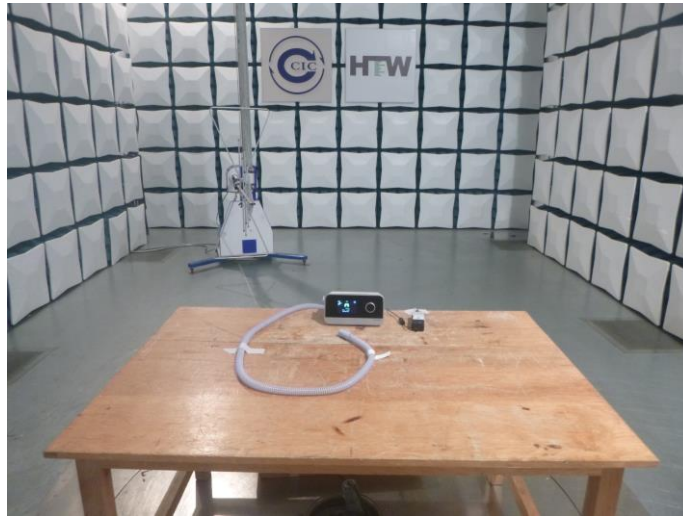
Type	802.11b		Test channel	CH01		Polarity		Horizontal	
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	1329.15	49.47	26.18	4.07	36.37	43.35	74.00	-30.65	Peak
2	2664.36	49.58	27.79	5.87	37.02	46.22	74.00	-27.78	Peak
3	3993.90	41.26	29.90	7.38	36.37	42.17	74.00	-31.83	Peak
4	4983.99	41.96	31.77	8.80	35.22	47.31	74.00	-26.69	Peak
Type	802.11b		Test channel	CH01		Polarity		Vertical	
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	1327.69	47.96	26.17	4.07	36.37	41.83	74.00	-32.17	Peak
2	2661.43	46.76	27.77	5.87	37.01	43.39	74.00	-30.61	Peak
3	3993.90	41.26	29.90	7.38	36.37	42.17	74.00	-31.83	Peak
4	4983.99	41.96	31.77	8.80	35.22	47.31	74.00	-26.69	Peak
Type	802.11b		Test channel	CH06		Polarity		Horizontal	
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	1327.69	47.96	26.17	4.07	36.37	41.83	74.00	-32.17	Peak
2	2661.43	46.76	27.77	5.87	37.01	43.39	74.00	-30.61	Peak
3	3653.46	46.17	29.40	6.97	37.02	45.52	74.00	-28.48	Peak
4	7319.96	37.41	36.44	10.06	34.10	49.81	74.00	-24.19	Peak
Type	802.11b		Test channel	CH06		Polarity		Vertical	
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	1329.15	49.47	26.18	4.07	36.37	43.35	74.00	-30.65	Peak
2	2664.36	49.58	27.79	5.87	37.02	46.22	74.00	-27.78	Peak
3	3993.90	41.08	29.90	7.38	36.37	41.99	74.00	-32.01	Peak
4	7117.84	33.56	36.17	10.02	33.93	45.82	74.00	-28.18	Peak
Type	802.11b		Test channel	CH11		Polarity		Horizontal	
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	1327.69	47.96	26.17	4.07	36.37	41.83	74.00	-32.17	Peak
2	2661.43	46.76	27.77	5.87	37.01	43.39	74.00	-30.61	Peak
3	3690.85	45.48	29.40	7.00	37.04	44.84	74.00	-29.16	Peak
4	7394.88	36.41	36.59	10.25	34.02	49.23	74.00	-24.77	Peak
Type	802.11b		Test channel	CH11		Polarity		Vertical	
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	1329.15	49.47	26.18	4.07	36.37	43.35	74.00	-30.65	Peak
2	2664.36	49.58	27.79	5.87	37.02	46.22	74.00	-27.78	Peak
3	3690.85	41.01	29.40	7.00	37.04	40.37	74.00	-33.63	Peak
4	5325.01	36.44	31.45	9.48	35.41	41.96	74.00	-32.04	Peak

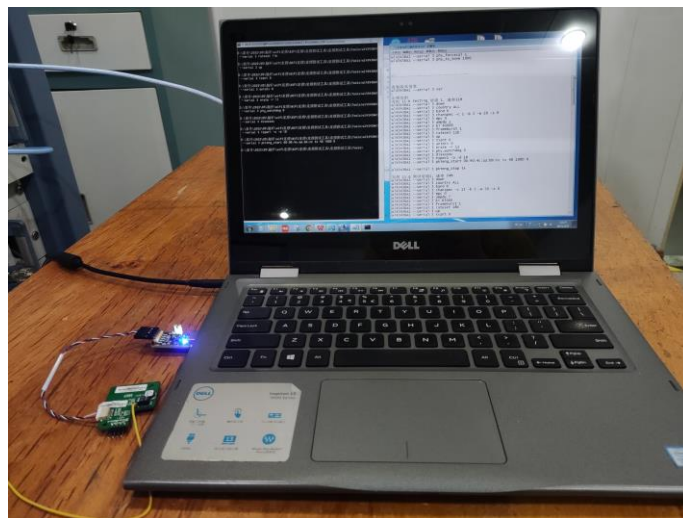
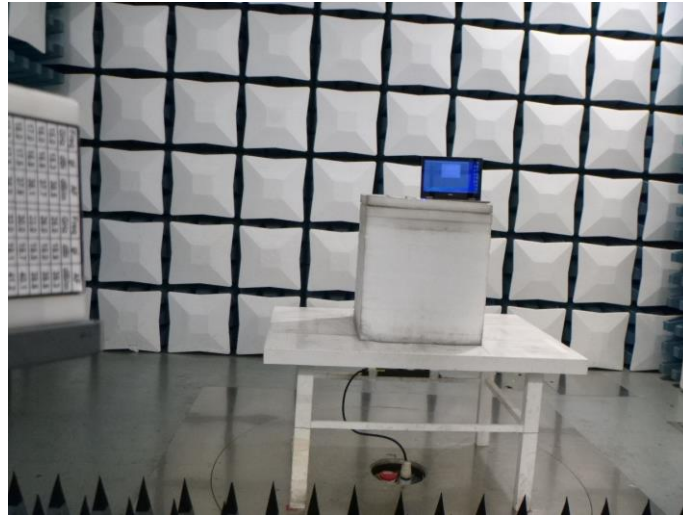
Type	802.11g		Test channel	CH01			Polarity		Horizontal	
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	1595.06	48.72	25.41	4.46	37.11	41.48	74.00	-32.52	Peak	
2	2658.51	48.78	27.75	5.87	37.01	45.39	74.00	-28.61	Peak	
3	3616.45	46.90	29.40	6.93	36.98	46.25	74.00	-27.75	Peak	
4	4004.08	42.09	29.91	7.38	36.34	43.04	74.00	-30.96	Peak	
Type	802.11g		Test channel	CH01			Polarity		Vertical	
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	1332.08	49.61	26.19	4.08	36.38	43.50	74.00	-30.50	Peak	
2	2655.59	48.38	27.73	5.87	37.01	44.97	74.00	-29.03	Peak	
3	3983.75	40.99	29.90	7.38	36.40	41.87	74.00	-32.13	Peak	
4	4983.99	44.80	31.77	8.80	35.22	50.15	74.00	-23.85	Peak	
Type	802.11g		Test channel	CH06			Polarity		Horizontal	
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	1595.06	48.72	25.41	4.46	37.11	41.48	74.00	-32.52	Peak	
2	2658.51	48.78	27.75	5.87	37.01	45.39	74.00	-28.61	Peak	
3	3653.46	46.76	29.40	6.97	37.02	46.11	74.00	-27.89	Peak	
4	4983.99	39.15	31.77	8.80	35.22	44.50	74.00	-29.50	Peak	
Type	802.11g		Test channel	CH06			Polarity		Vertical	
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	1332.08	49.61	26.19	4.08	36.38	43.50	74.00	-30.50	Peak	
2	2655.59	48.38	27.73	5.87	37.01	44.97	74.00	-29.03	Peak	
3	3983.75	41.82	29.90	7.38	36.40	42.70	74.00	-31.30	Peak	
4	4983.99	39.42	31.77	8.80	35.22	44.77	74.00	-29.23	Peak	
Type	802.11g		Test channel	CH11			Polarity		Horizontal	
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	1595.06	48.72	25.41	4.46	37.11	41.48	74.00	-32.52	Peak	
2	2658.51	48.78	27.75	5.87	37.01	45.39	74.00	-28.61	Peak	
3	3690.85	46.10	29.40	7.00	37.04	45.46	74.00	-28.54	Peak	
4	5311.47	35.85	31.42	9.48	35.41	41.34	74.00	-32.66	Peak	
Type	802.11g		Test channel	CH11			Polarity		Vertical	
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	1332.08	49.61	26.19	4.08	36.38	43.50	74.00	-30.50	Peak	
2	2655.59	48.38	27.73	5.87	37.01	44.97	74.00	-29.03	Peak	
3	3690.85	41.83	29.40	7.00	37.04	41.19	74.00	-32.81	Peak	
4	4996.69	44.63	31.87	8.81	35.24	50.07	74.00	-23.93	Peak	

Type	802.11n(HT20)		Test channel	CH01		Polarity		Horizontal	
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	1329.15	46.65	26.18	4.07	36.37	40.53	74.00	-33.47	Peak
2	2379.30	50.60	27.74	5.51	37.48	46.37	74.00	-27.63	Peak
3	3616.45	46.74	29.40	6.93	36.98	46.09	74.00	-27.91	Peak
4	4996.69	36.13	31.87	8.81	35.24	41.57	74.00	-32.43	Peak
Type	802.11n(HT20)		Test channel	CH01		Polarity		Vertical	
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	1330.61	49.82	26.19	4.07	36.37	43.71	74.00	-30.29	Peak
2	2655.59	48.77	27.73	5.87	37.01	45.36	74.00	-28.64	Peak
3	3983.75	44.28	29.90	7.38	36.40	45.16	74.00	-28.84	Peak
4	4983.99	44.03	31.77	8.80	35.22	49.38	74.00	-24.62	Peak
Type	802.11n(HT20)		Test channel	CH06		Polarity		Horizontal	
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	1329.15	46.65	26.18	4.07	36.37	40.53	74.00	-33.47	Peak
2	2379.30	50.60	27.74	5.51	37.48	46.37	74.00	-27.63	Peak
3	3653.46	46.72	29.40	6.97	37.02	46.07	74.00	-27.93	Peak
4	4983.99	39.42	31.77	8.80	35.22	44.77	74.00	-29.23	Peak
Type	802.11n(HT20)		Test channel	CH06		Polarity		Vertical	
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	1330.61	49.82	26.19	4.07	36.37	43.71	74.00	-30.29	Peak
2	2655.59	48.77	27.73	5.87	37.01	45.36	74.00	-28.64	Peak
3	3653.46	41.28	29.40	6.97	37.02	40.63	74.00	-33.37	Peak
4	4996.69	44.88	31.87	8.81	35.24	50.32	74.00	-23.68	Peak
Type	802.11n(HT20)		Test channel	CH11		Polarity		Horizontal	
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	1329.15	46.65	26.18	4.07	36.37	40.53	74.00	-33.47	Peak
2	2379.30	50.60	27.74	5.51	37.48	46.37	74.00	-27.63	Peak
3	3690.85	45.84	29.40	7.00	37.04	45.20	74.00	-28.80	Peak
4	4983.99	39.00	31.77	8.80	35.22	44.35	74.00	-29.65	Peak
Type	802.11n(HT20)		Test channel	CH11		Polarity		Vertical	
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	1330.61	49.82	26.19	4.07	36.37	43.71	74.00	-30.29	Peak
2	2655.59	48.77	27.73	5.87	37.01	45.36	74.00	-28.64	Peak
3	3690.85	41.56	29.40	7.00	37.04	40.92	74.00	-33.08	Peak
4	4996.69	44.96	31.87	8.81	35.24	50.40	74.00	-23.60	Peak

6. TEST SETUP PHOTOS

Radiated Emission





AC Conducted Emission



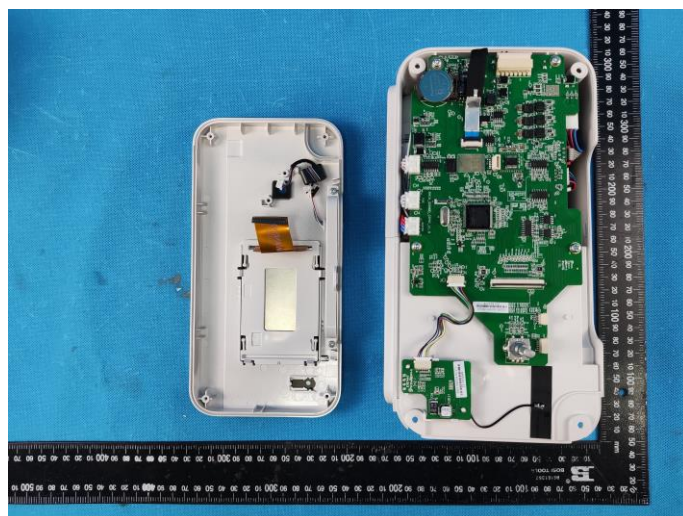
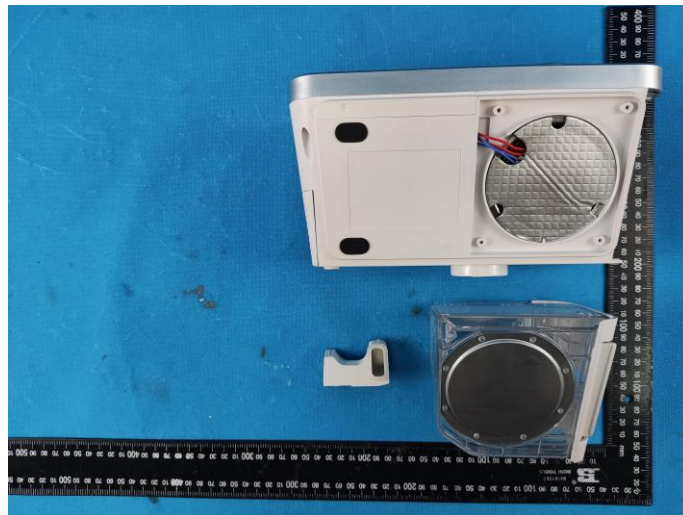
7. EXTERNAL AND INTERNAL PHOTOS

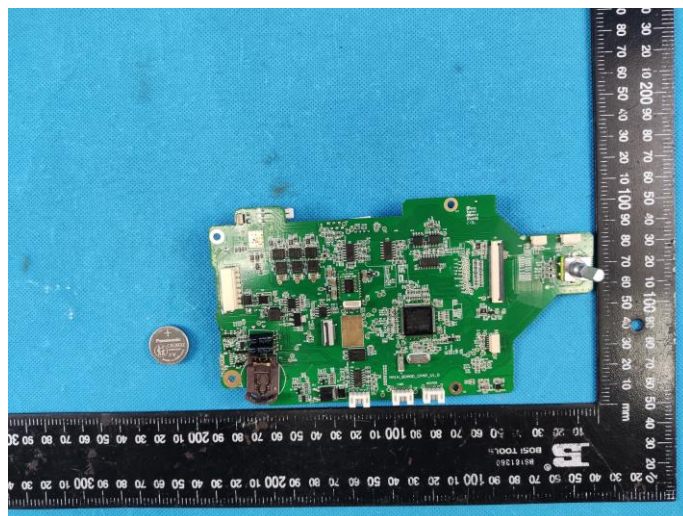
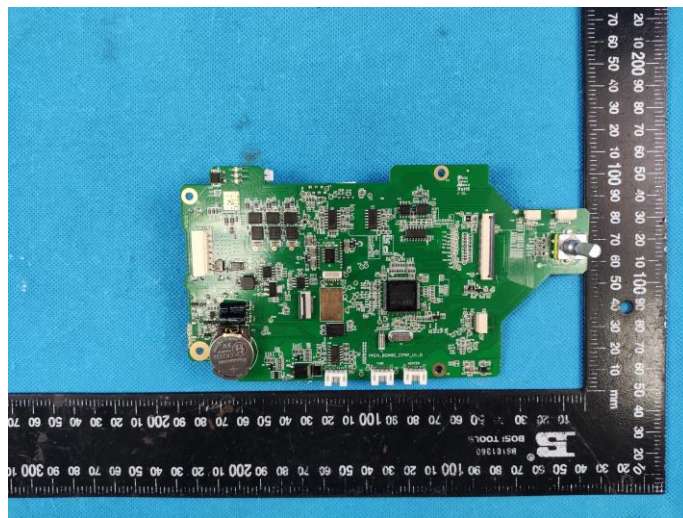
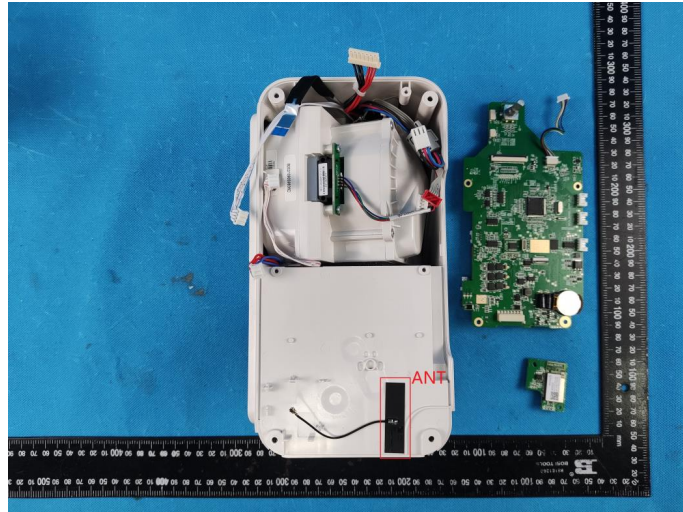
External Photos

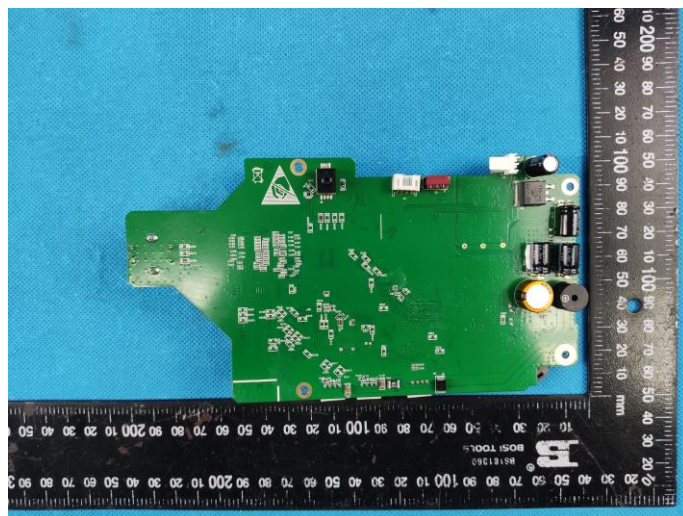
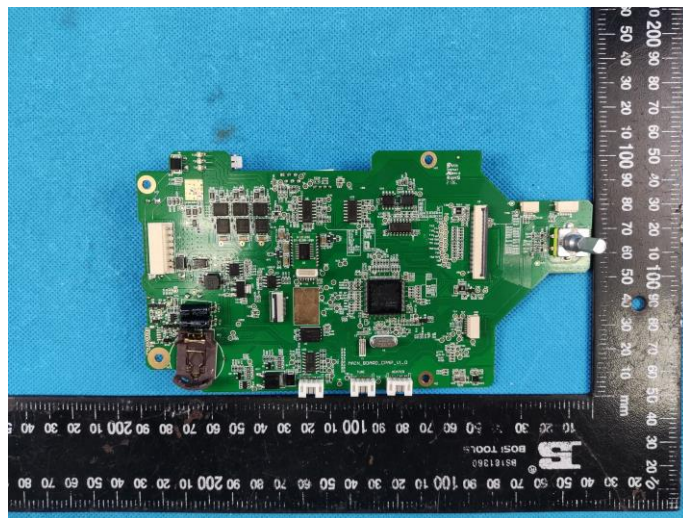
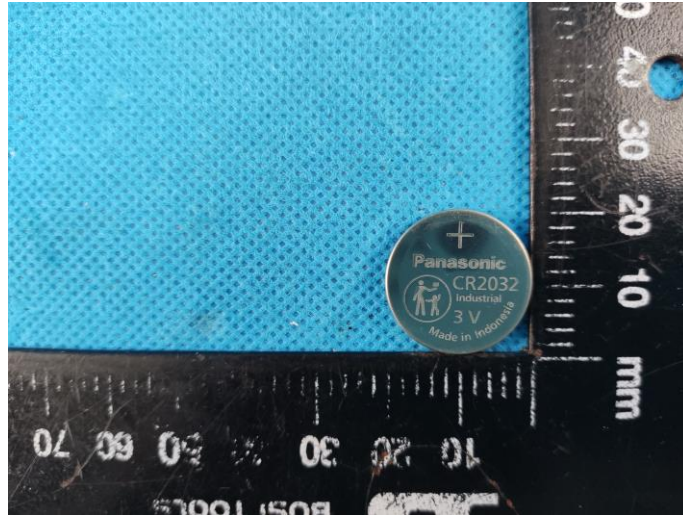


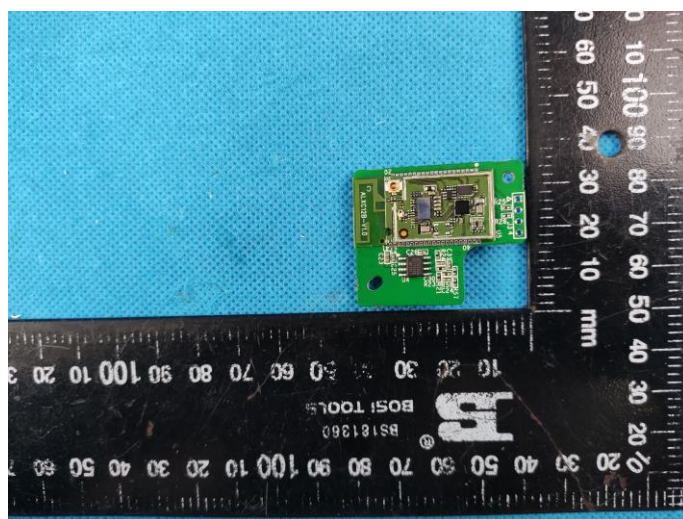
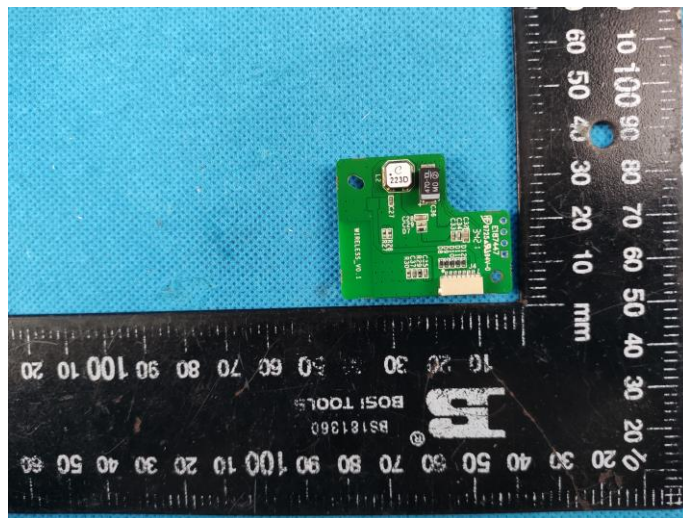
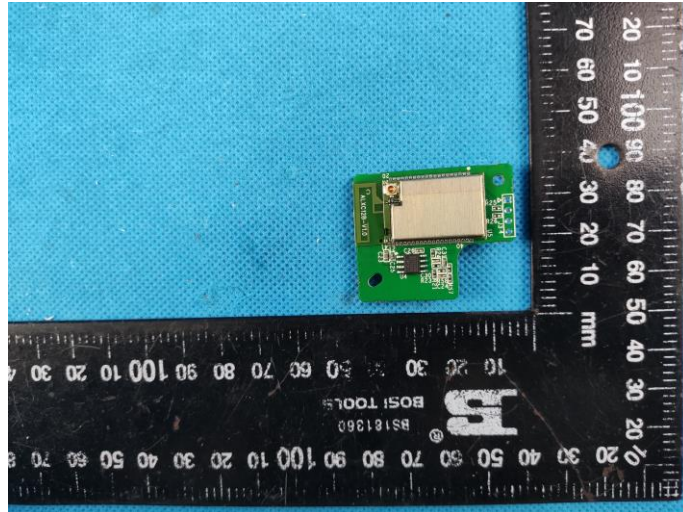


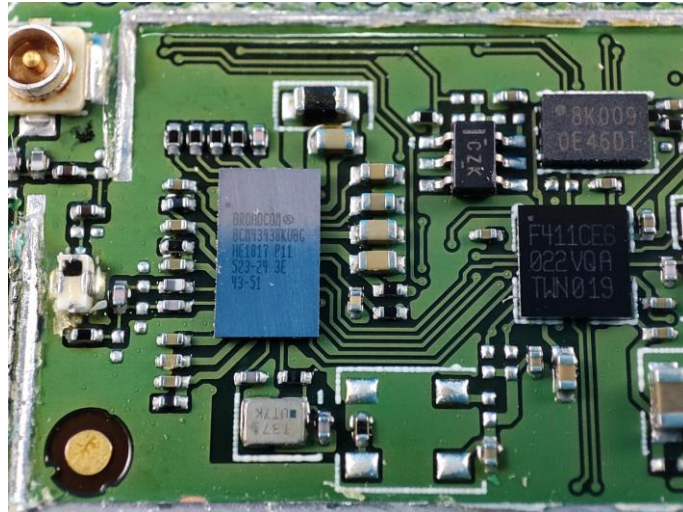


Internal Photos









8. APPENDIX REPORT