

# **TEST REPORT**

Product Name : Pocket WiFi V4.0 Model Number : Pocket WiFi V4.0 FCC ID : 2AMEH-POCKET4

Prepared for Address

SolaX Power Network Technology (Zhejiang) Co. ,Ltd.No.288, Shizhu Road, Chengnan Sub-district, Tonglu

County, Hangzhou, Zhejiang, China.

Prepared by Address

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Report Number : ENB2503030242W00101R

Date(s) of Tests : January 03, 2025 to March 09, 2025

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Ver. 1. 0



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# 1 TEST RESULT CERTIFICATION

Applicant : SolaX Power Network Technology (Zhejiang) Co. ,Ltd.

Address : No.288, Shizhu Road, Chengnan Sub-district, Tonglu County, Hangzhou,

Zhejiang, China.

Manufacturer : SolaX Power Network Technology (Zhejiang) Co. ,Ltd.

Address : No.288, Shizhu Road, Chengnan Sub-district, Tonglu County, Hangzhou,

Zhejiang, China.

EUT : Pocket WiFi V4.0

Model Name : Pocket WiFi V4.0

Trademark : solax power

#### Measurement Procedure Used:

APPLICABLE STANDARDS				
STANDARD TEST RESULT				
FCC 47 CFR Part 2, Subpart J FCC 47 CFR Part 15, Subpart C	PASS			

The above equipment was tested by EMTEK (NINGBO) CO., LTD. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with the requirements of FCC Rules Part 2 and Part 15.247

The test results of this report relate only to the tested sample identified in this report.

Date of Test:	January 03, 2025 to March 09, 2025
Prepared by :	WK Luo
	WK Luo /Engineer
Reviewer:	June Gao /Superviso
Approved & Authorized Signer :	Tony Wei /Manager

Report No. ENB2503030242W00101R



# 2 EUT TECHNICAL DESCRIPTION

Characteristics	Description			
Product:	Pocket WiFi V4.0			
Model Number:	Pocket WiFi V4.0			
Sample Number:	ENB2503030242W001-1-1			
IEEE 802.11 WLAN Mode Supported:	S02.11b 802.11g 802.11n(20MHz channel bandwidth) 802.11n(40MHz channel bandwidth) 802.11ax(20MHz channel bandwidth)			
Data Rate:	802.11 b:1,2,5.5,11Mbps; 802.11 g:6,9,12,18,24,36,48,54Mbps; 802.11 n: MCS0~7,up to 150Mbps;			
Modulation:	DSSS with DBPSK/DQPSK/CCK for 802.11b; OFDM with BPSK/ CCK /16QAM/64QAM for 802.11g/n(HT20)/ax(HT20);			
Operating Frequency Range:				
Number of Channels:				
Transmit Power Max:	18.73 dBm			
Smart system:	SISO for802.11 b/g/n(HT20)/ax(HT20); ☐MIMO for802.11n(HT20);			
Antenna Type:	FPC Antenna			
Antenna Gain:	0.5 dBi			
RF cable loss:	0.4 dB			
Power supply:	DC 5V/0.5W			
Test Voltage:	DC 5V for USB			
Temperature Range:	-30℃~+65℃			
Date of Received:	January 02, 2025			

Note: for more details, please refer to the User's manual of the EUT.



# 3 SUMMARY OF TEST RESULT

FCC Part Clause	Test Parameter	Verdict	Remark		
15.247(a)(2)	DTS (6dB) Bandwidth	PASS			
15.247(b)(3)	Maximum Peak Conducted Output Power	PASS			
15.247(e)	Maximum Power Spectral Density Level	PASS			
15.247(d)	Unwanted Emission Into Non-Restricted Frequency Bands	PASS			
15.247(d) 15.209	Unwanted Emission Into Restricted Frequency Bands (conducted)	PASS			
15.247(d) 15.209	Radiated Spurious Emission	PASS			
15.207	Conducted Emission Test	N/A			
15.247(b)	Antenna Application PASS				
	NOTE1:N/A (Not Applicable) NOTE2: According to FCC OET KDB 558074, the report use radiated measurements in the restricted frequency bands. In addition, the radiated test is also performed to ensure the emissions emanating from the device cabinet also comply with the applicable limits.				

# RELATED SUBMITTAL(S) / GRANT(S):

This submittal(s) (test report) is intended for FCC ID: 2AMEH-POCKET4 filing to comply with Section 15.247 of the FCC Part 15, Subpart C Rules



# 4 TEST METHODOLOGY

# 4.1 GENERAL DESCRIPTION OF APPLIED STANDARDS

According to its specifications, the EUT must comply with the requirements of the following standards: FCC 47 CFR Part 2, Subpart J FCC 47 CFR Part 15, Subpart C FCC KDB 558074 D01 15.247 Meas Guidance v05r02

# 4.2 MEASUREMENT EQUIPMENT USED

# 4.2.1 Radiated Emission Test Equipment

Equ. No.	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
ENE-185	EMI Test Receiver	R&S	ESR7	102480	April 25, 2024	1 Year
ENE-190	Antenna Multiple	Schwarzbeck	VULB 9163	01499	May 18, 2024	1 Year
ENE-195	Pre-Amplifier	JS Denki	PA09K03-40	JSPA21019	April 25, 2024	1 Year
ENE-204	Low Frequency Notch Filter RF Switching	JS Denki	JSDSW-F	JSDSW2211D 02	April 25, 2024	1 Year
ENE-251	6dB Attenuator	Mini-Circuits	UNAT-6+	11542	July 02, 2024	1 Year
ENE-279- 1	RF Cable	Rosenberger	L17-C001-7000	1	April 14, 2024	1 Year
ENE-279- 2	RF Cable	Rosenberger	L17-C001-3500	1	April 14, 2024	1 Year
ENE-279- 3	- I RE-Cable I Rosenberger I		L17-C001-1500	1	April 14, 2024	1 Year
ENE-279- 4	ENE-279- 4 RF Cable Rosenberger		1	1	April 14, 2024	1 Year
ENE-279- 5	_ I RE Caple I Rosenberger I		1	1	April 14, 2024	1 Year
ENE-279- 6	RF Cable	Rosenberger	L08-C446-1500	1	April 14, 2024	1 Year
ENE-171	EXA Signal Analyzer	KEYSIGHT	N9010B	MY60242467	Oct. 28, 2024	1 Year
ENE-191	Horn Antenna	Schwarzbeck	BBHA 9120 D	02588	May 18, 2024	1 Year
ENE-198	Pre-Amplifier	JS Denki	PA0118-50	JSPA21022	April 25, 2024	1 Year
ENE-281- 1	RF Cable	Rosenberger	LA2-C125-3500	/	April 14, 2024	1 Year
ENE-281- 2	RF Cable	Rosenberger	LA2-C125-1500	1	April 14, 2024	1 Year
ENE-281- 3	RF Cable	RF Cable Rosenberger		/	April 14, 2024	1 Year
ENE-285- 1	RF Cable	Rosenberger	LA2-C199-6500	/	April 14, 2024	1 Year
ENE-206	High Frequency Notch FilterRf Switching	JS Denki	JSDSW-F	202083582	April 25, 2024	1 Year



ENE-144	3-Meter Anechoic Chamber 2#	SKET	9*6*6m	1	June 19, 2022	3 Year
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# 4.2.2 Radio Frequency Test Equipment

Equ. No.	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
ENE-256	EXA Signal Anaalyzer	Keysight	N9010B	MY62060219	July 02, 2024	1 Year
ENE-172	RF Control Unit	Tonscend	JS0806-2(V.6E)	21L8060521	March 03, 2025	1 Year
ENE-092	DC Power Supply	KEFUNA	KDP3603	2004D3062946	July 02, 2024	1 Year
ENE-093	Attenuator 10dB	talent Microwave	TA10A2-S-18	N/A	July 02, 2024	1 Year

Note: The ENE-172 device was not tested on the day of calibration.



#### 4.3 DESCRIPTION OF TEST MODES

The EUT has been tested under its typical operating condition.

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

Test of channel included the lowest and middle and highest frequency to perform the test, then record on this report.

Those data rates ( $\boxtimes$ 802.11b:1 Mbps; $\boxtimes$ 802.11g: 6 Mbps; $\boxtimes$ 802.11n(HT20): MCS0; $\boxtimes$ 802.11ax(HT20): MCS0) were used for all test.

Pre-defined engineering program for regulatory testing used to control the EUT for staying in continuous transmitting and receiving mode is programmed.

Frequency and Channel list for 802.11b/g/n (HT20)/ax (HT20):

Channal	Frequency	Channal	Frequency	Channal	Frequency
Channel	Channel (MHz)	Channel	(MHz)	Channel	(MHz)
1	2412	6	2437	11	2462
2	2417	7	2442		
3	2422	8	2447		
4	2427	9	2452		
5	2432	10	2457		

Frequency and Channel list for 802.11n (HT40):

Channel	Frequency	Channel	Frequency	Channel	Frequency
Charmer	(MHz)	Chamilei	(MHz)	Chamilei	(MHz)
3	2422	6	2437	9	2452
4	2427	7	2442		
5	2432	8	2447		

☐ Test Frequency and Channel for 802.11b/g/n (HT20)/ax (TH20):

Lowest Frequency		Middle F	requency	Highest Frequency	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2412	6	2437	11	2462

☐Test Frequency and Channel for 802.11n (HT40):

Lowest Frequency		Middle F	requency	Highes	st Frequency
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
3	2422	6	2437	9	2452



# 4.4 TEST SOFTWARE

Item	Software
Radiated Emission:	JSDEMC-EMI(V3.9)
Conducted Emission:	N/A





### 5 FACILITIES AND ACCREDITATIONS

#### 5.1 FACILITIES

All measurement facilities used to collect the measurement data are located at

No. 8, Building 8, Lane 216, Qingyi Road, Ningbo High-Tech Zone, Ningbo, Zhejiang, China The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.10 and CISPR Publication 32.

#### 5.2 LABORATORY ACCREDITATIONS AND LISTINGS

Site Description

EMC Lab. : Accredited by CNAS

The Certificate Registration Number is L6666.

The Laboratory has been assessed and proved to be in compliance with

CNAS-CL01:2018 (identical to ISO/IEC 17025:2017)

**Designation by FCC** 

Designation Number: CN1354

Test Firm Registration Number: 427606

Accredited by A2LA

The Certificate Number is 4321.03. The certificate is valid until May 31, 2025

**Designation by Industry Canada** 

The Conformity Assessment Body Identifier is CN0114

Name of Firm : EMTEK (NINGBO) CO., LTD.

Site Location : No. 8, Building 8, Lane 216, Qingyi Road, High-Tech Zone, Ningbo,

Zhejiang, China

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# **6 TEST SYSTEM UNCERTAINTY**

The following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Uncertainty		
± 1x10^-5		
± 1.0 dB		
± 2.0 dB		
± 2.0 dB		
± 2.0 dB		
± 1.0 dB		
± 3 dB		
± 3 dB		
± 3 dB		
± 0.5 °C		
± 3 %		

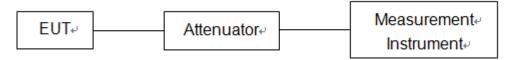
Measurement Uncertainty for a level of Confidence of 95%



#### 7 SETUP OF EQUIPMENT UNDER TEST

#### 7.1 RADIO FREQUENCY TEST SETUP 1

The WLAN component's antenna ports(s) of the EUT are connected to the measurement instrument per an appropriate attenuator. The EUT is controlled by PC/software to emit the specified signals for the purpose of measurements.



#### 7.2 RADIO FREQUENCY TEST SETUP 2

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4 dB according to the standards: ANSI C63.10. The test distance is 3m.The setup is according to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 and CAN/CSA-CEI/IEC CISPR 22.

#### Below 30MHz:

The EUT is placed on a turntable 0.8 meters above the ground in the chamber, 3 meter away from the antenna (loop antenna). The Antenna should be positioned with its plane vertical at the specified distance from the EUT androtated about its vertical axis formaximum response at each azimuth about the EUT. The center of the loopshall be 1 m above the ground. For certain applications, the loop antennaplane may also need to be positioned horizontally at the specified distance from the EUT.

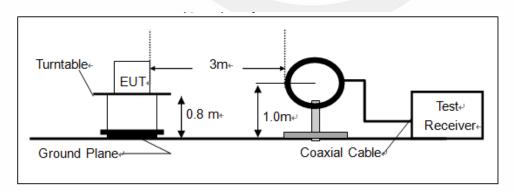
#### 30MHz-1GHz:

The EUT is placed on a turntable 0.8 meters above the ground in the chamber, 3 meter away from the antenna. The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable azimuth. Normally, the height range of antenna is 1 m to 4 m, the azimuth range of turntable is 0° to 360°, and the receive antenna has two polarizations Vertical (V) and Horizontal (H).

# Above 1GHz:

The EUT is placed on a turntable 1.5 meters above the ground in the chamber, 3 meter away from the antenna. The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable azimuth. Normally, the height range of antenna is 1 m to 4 m, the azimuth range of turntable is 0° to 360°, and the receive antenna has two polarizations Vertical (V) and Horizontal (H).

#### (a) Radiated Emission Test Set-Up, Frequency Below 30MHz

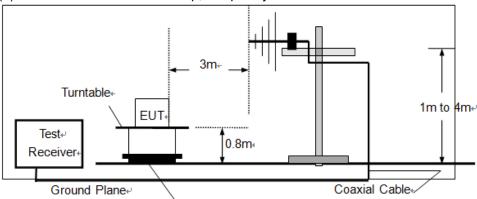


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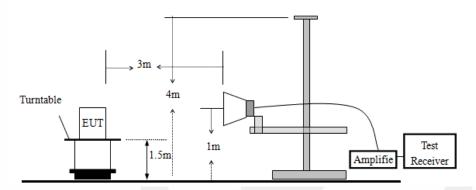
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#### (b)Radiated Emission Test Set-Up, Frequency Below 1000MHz



# (c) Radiated Emission Test Set-Up, Frequency above 1000MHz

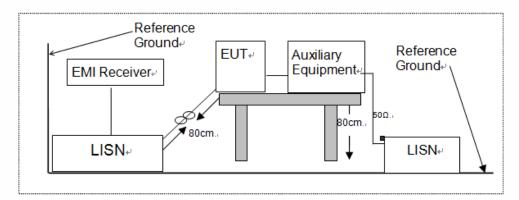


## 7.3 CONDUCTED EMISSION TEST SETUP

The mains cable of the EUT (maybe per AC/DC Adapter) must be connected to LISN. The LISN shall be placed 0.8 m from the boundary of EUT and bonded to a ground reference plane for LISN mounted on top of the ground reference plane. This distance is between the closest points of the LISN and the EUT. All other units of the EUT and associated equipment shall be at least 0.8m from the LISN.

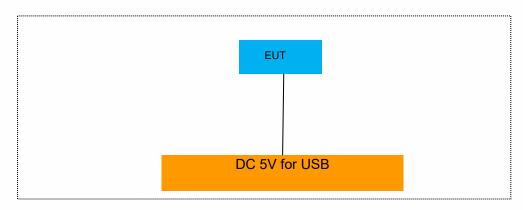
Ground connections, where required for safety purposes, shall be connected to the reference ground point of the LISN and, where not otherwise provided or specified by the manufacturer, shall be of same length as the mains cable and run parallel to the mains connection at a separation distance of not more than 0.1 m.

According to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode.





# 7.4 BLOCK DIAGRAM CONFIGURATION OF TEST SYSTEM



### 7.5 SUPPORT EQUIPMENT

EUT Cable List and Details					
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite		
1	1	1	1		

Auxiliary Cable List and Details						
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite			
1	1	1	1			

Auxiliary Equipment List and Details						
Description Manufacturer Model Serial Number						
Notebook Computer	Lenovo	E49L	WB06365006			

#### Notes:

- 1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.
- 3. Unless otherwise denoted as EUT in <code>[Remark]</code> column, device(s) used in tested system is a support equipment



## **8 TEST REQUIREMENTS**

## 8.1 DTS (6DB) BANDWIDTH

#### 8.1.1 Applicable Standard

According to FCC Part15.247 (a)(2) and KDB 558074 D01 15.247 Meas Guidance v05r02

#### 8.1.2 Conformance Limit

The minimum -6 dB bandwidth shall be at least 500 kHz.

#### 8.1.3 Test Configuration

Test according to clause 7.1 radio frequency test setup 1

## 8.1.4 Test Procedure

The EUT was operating in IEEE 802.11b/g/n mode and controlled its channel. Printed out the test result from the spectrum by hard copy function.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously

Set RBW = 100 kHz.

Set the video bandwidth (VBW) =300kHz.

Set Span=2 times OBW

Set Detector = Peak.

Set Trace mode = max hold.

Set Sweep = auto couple.

Allow the trace to stabilize.

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.

Measure and record the results in the test report.

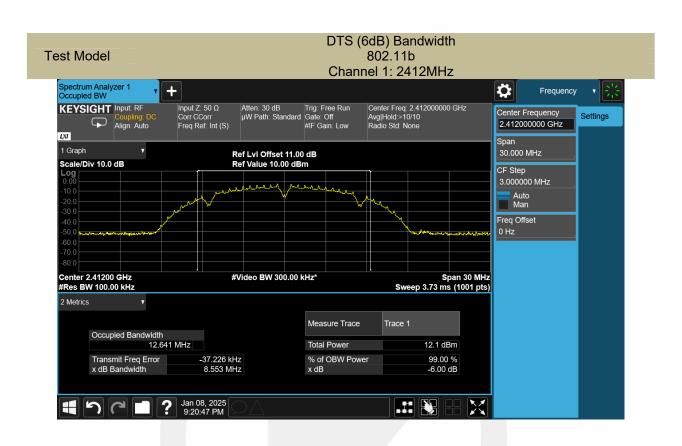
#### 8.1.5 Test Results

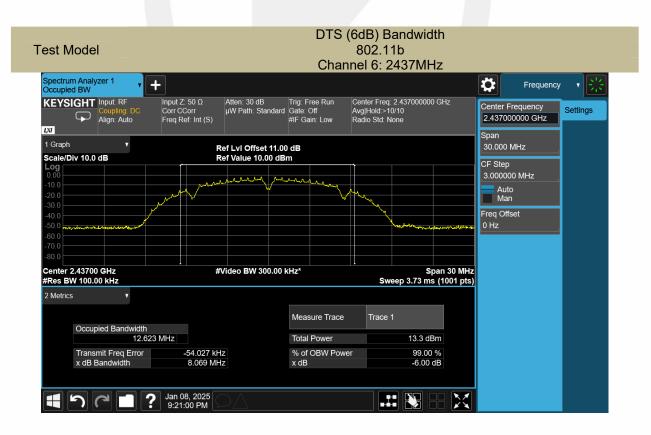
Temperature:	<b>24</b> °C
Relative Humidity:	70 %
ATM Pressure:	1011 mbar

Operation Mode	Channel Number	Channel Frequency (MHz)	Measurement Bandwidth (MHz)	Limit (kHz)	Verdict
	1	2412	8.553	>500	PASS
802.11b	6	2437	8.069	>500	PASS
	11	2462	9.014	>500	PASS
	1	2412	16.32	>500	PASS
802.11g	6	2437	16.33	>500	PASS
	11	2462	16.31	>500	PASS
802.11n (HT20)	1	2412	17.56	>500	PASS
	6	2437	17.38	>500	PASS
	11	2462	17.39	>500	PASS
802.11ax (HT20)	1	2412	17.56	>500	PASS
	6	2437	17.55	>500	PASS
	11	2462	17.56	>500	PASS

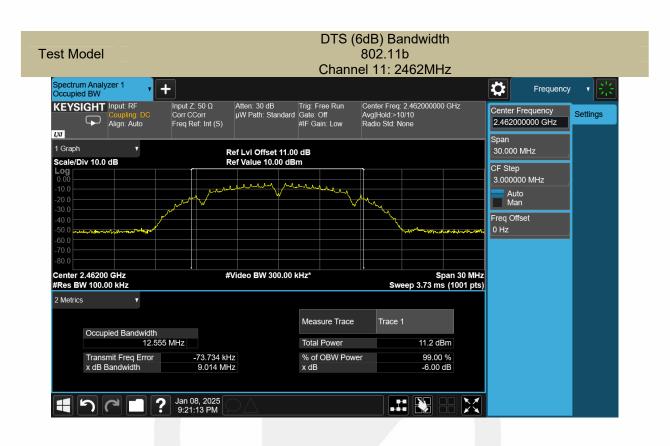
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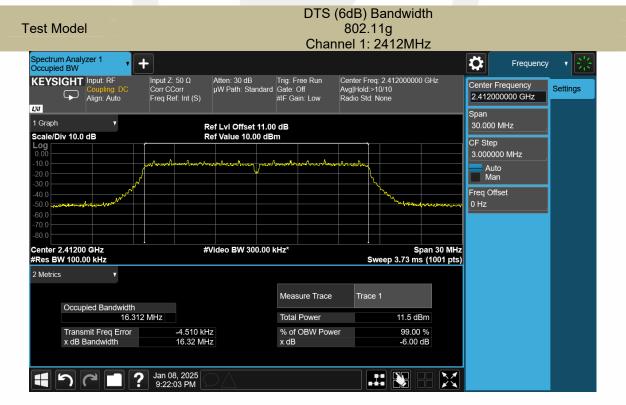






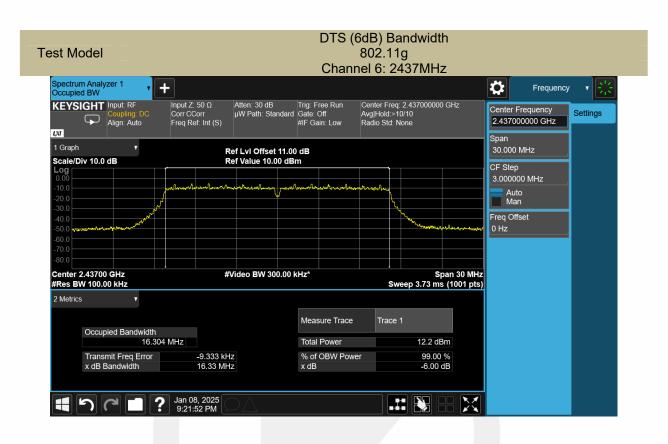


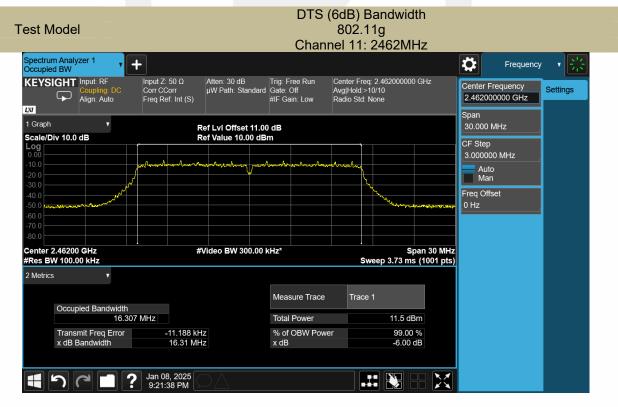




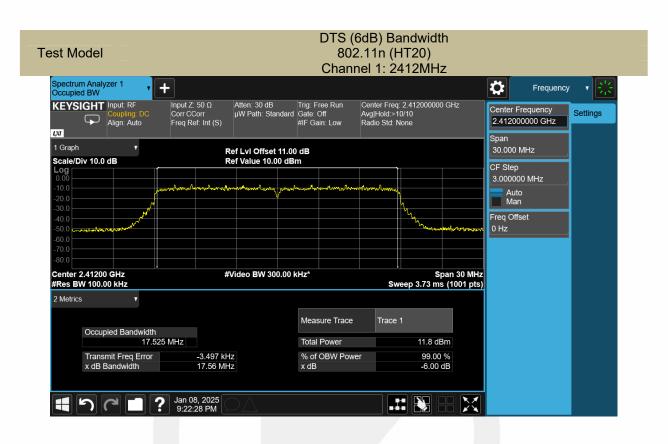
宁波市信测检测技术有限公司

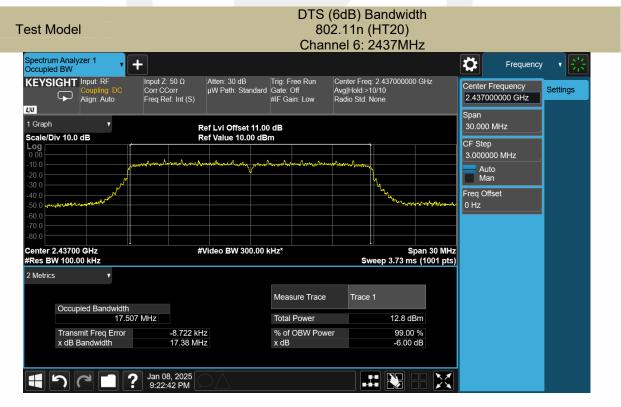




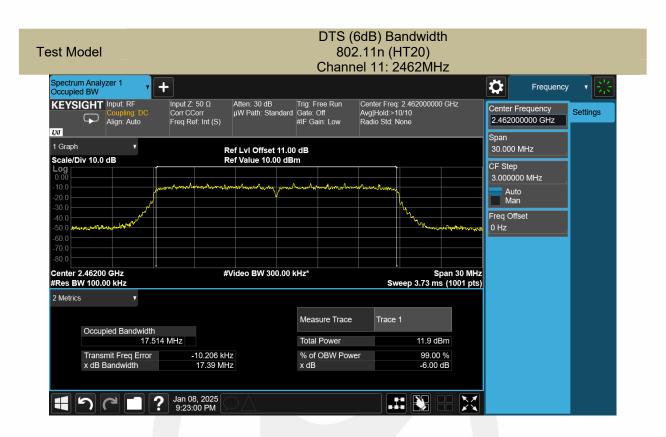


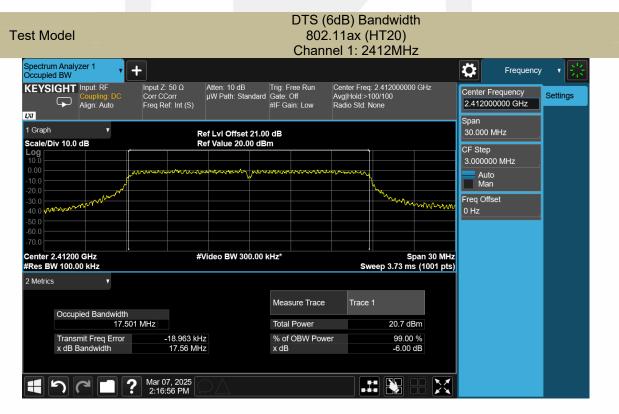




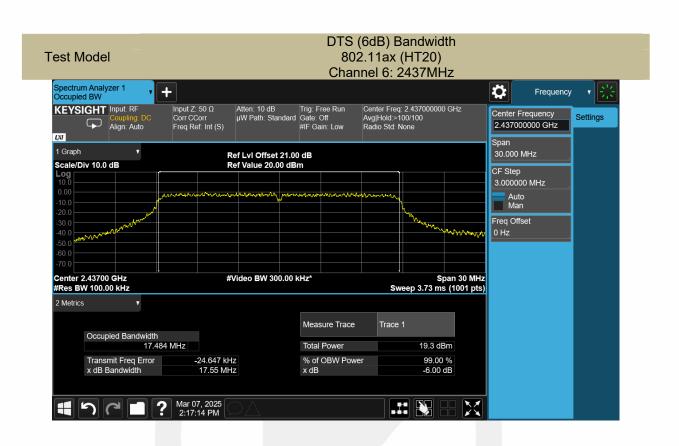


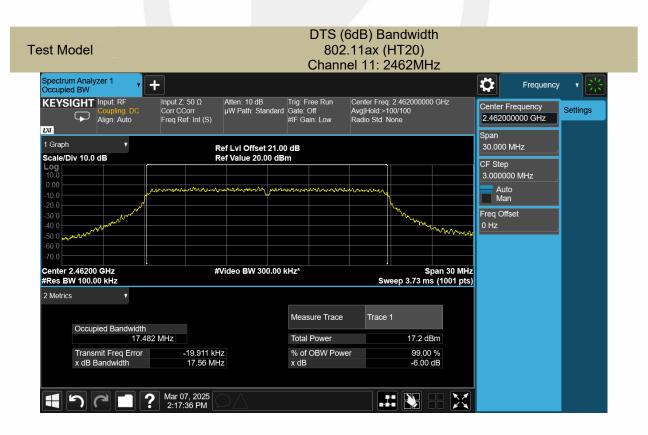














## 8.2 MAXIMUM CONDUCTED (AVERAGE) OUTPUT POWER

#### 8.2.1 Applicable Standard

According to FCC Part15.247 (b)(3) and KDB 558074 D01 15.247 Meas Guidance v05r02

#### 8.2.2 Conformance Limit

The maximum peak conducted output power of the intentional radiator for systems using digital modulation in the 2400 - 2483.5 MHz bands shall not exceed: 1 Watt (30dBm).

# 8.2.3 Test Configuration

Test according to clause 7.1 radio frequency test setup 1

#### 8.2.4 Test Procedure

- a) Set span to at least 1.5 times the OBW.
- b) Set RBW = 1-5% of the OBW, not to exceed 1 MHz.
- c) Set VBW  $\geq$  3 x RBW.
- d) Number of points in sweep  $\ge 2 \times \text{span}$  / RBW. (This gives bin-to-bin spacing  $\le \text{RBW/2}$ , so that narrowband signals are not lost between frequency bins.)
- e) Sweep time = auto.
- f) Detector = RMS (i.e., power averaging), if available. Otherwise, use sample detector mode.
- g) If transmit duty cycle < 98 %, use a sweep trigger with the level set to enable triggering only on full power pulses. The transmitter shall operate at maximum power control level for the entire duration of every sweep. If the EUT transmits continuously (i.e., with no off intervals) or at duty cycle  $\geq$  98 %, and if each transmission is entirely at the maximum power control level, then the trigger shall be set to "free run".
- h) Trace average at least 100 traces in power averaging (i.e., RMS) mode.
- i) Compute power by integrating the spectrum across the OBW of the signal using the instrument's band power measurement function, with band limits set equal to the OBW band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at intervals equal to the RBW extending across the entire OBW of the spectrum.

#### 8.2.5 Test Results

Temperature:	<b>24</b> °C
Relative Humidity:	70 %
ATM Pressure:	1011 mbar

Operation	Channel	Channel	Measurement	Limit	
Mode	Number	Frequency	Level (dBm)	(dBm)	Verdict
		(MHz)			
	1	2412	18.17	30	PASS
802.11b	6	2437	18.73	30	PASS
	11	2462	18.06	30	PASS
	1	2412	16.65	30	PASS
802.11g	6	2437	16.96	30	PASS
	11	2462	16.15	30	PASS
802.11n (HT20)	1	2412	13.01	30	PASS
	6	2437	14.02	30	PASS
	11	2462	12.80	30	PASS
802.11ax (HT20)	1	2412	14.88	30	PASS
	6	2437	13.59	30	PASS
	11	2462	11.42	30	PASS

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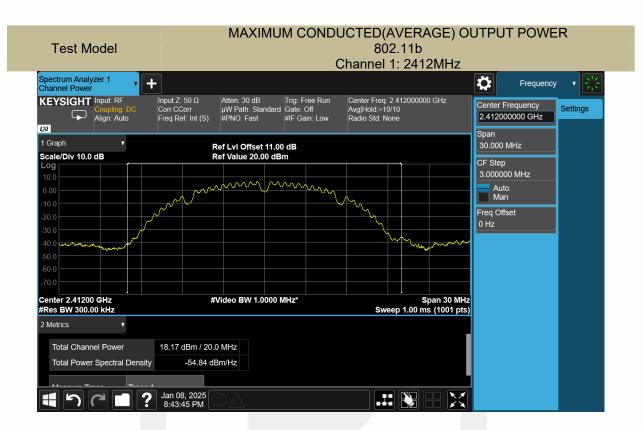






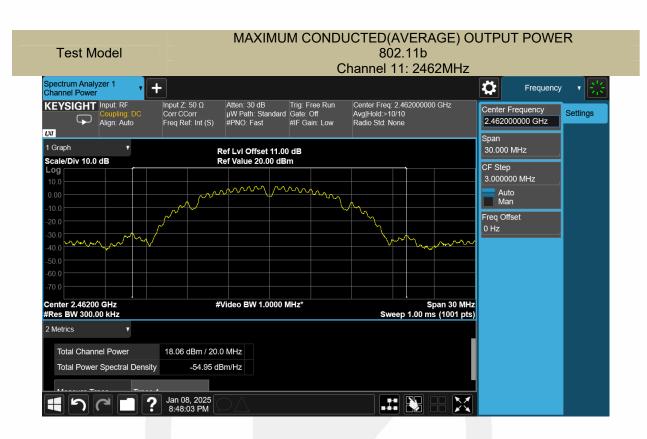


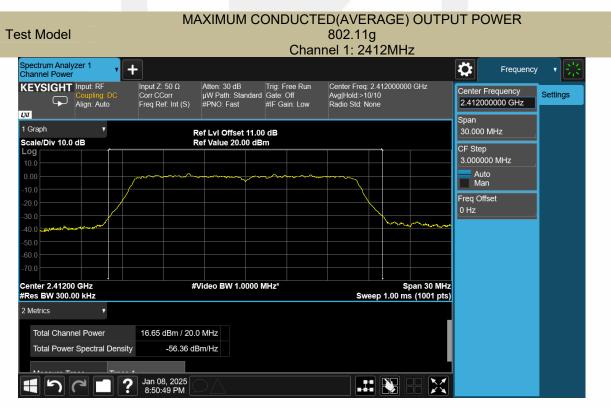




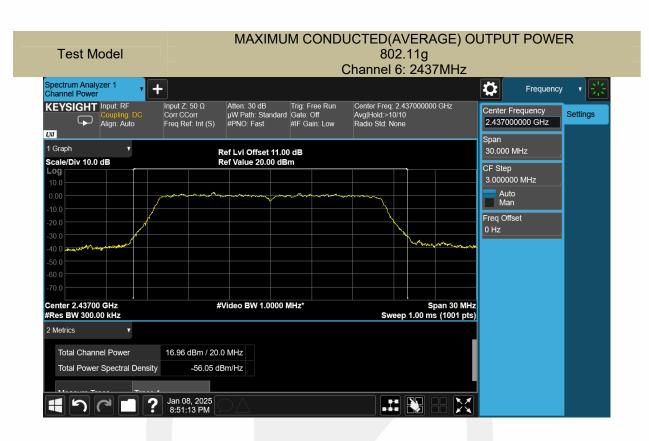


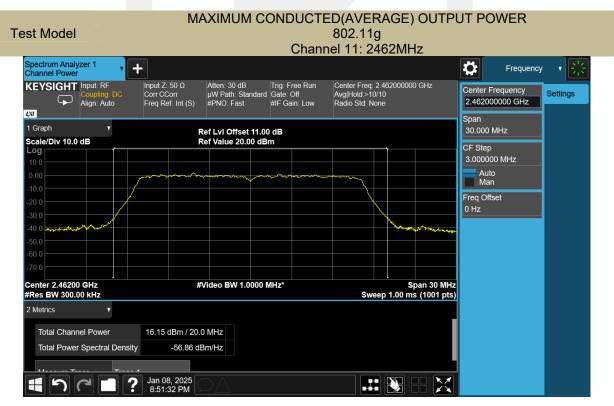




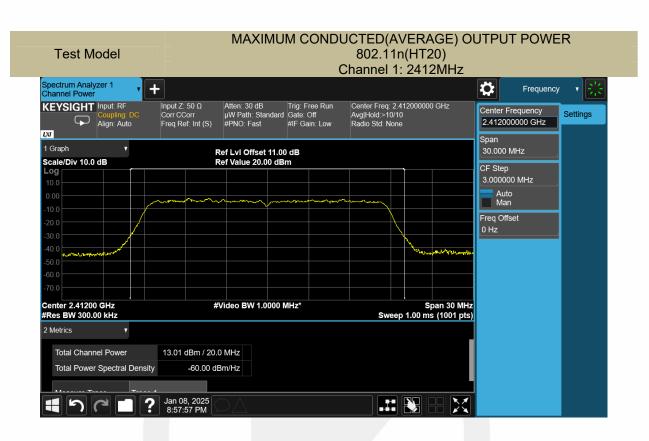






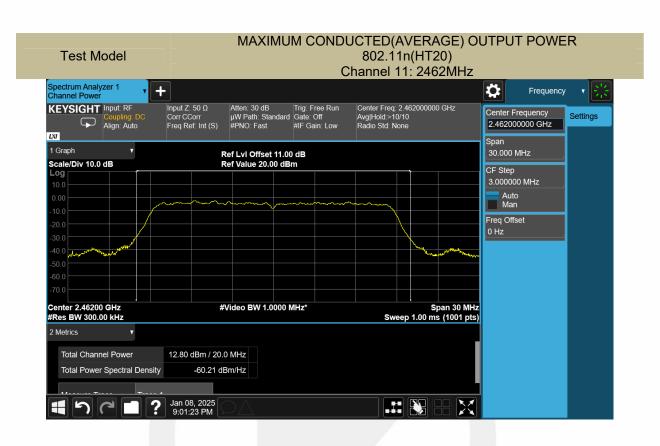


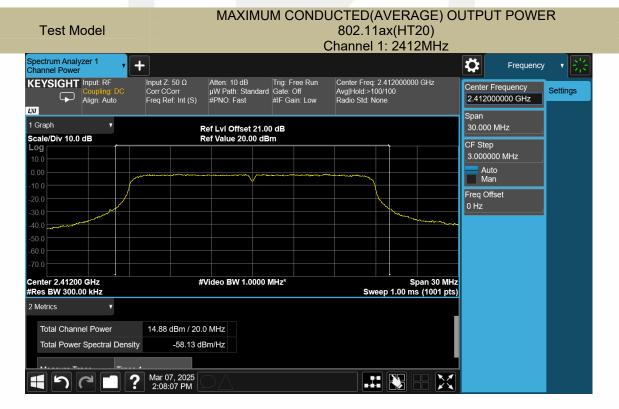




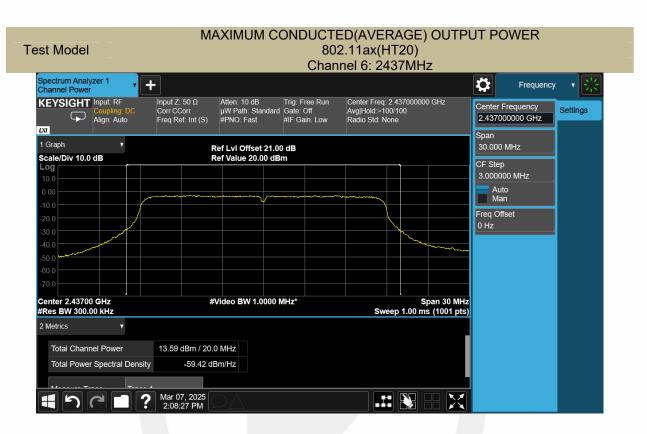


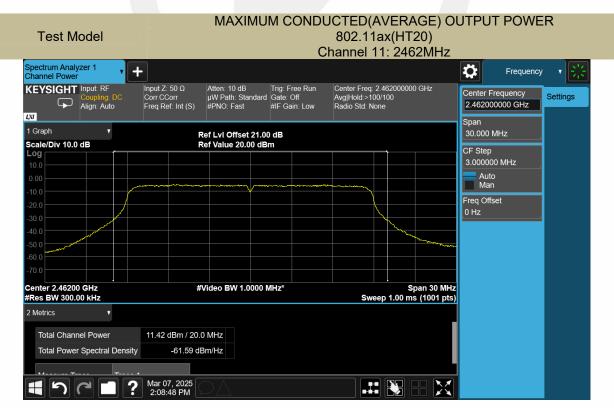














#### 8.3 MAXIMUM POWER SPECTRAL DENSITY

## 8.3.1 Applicable Standard

According to FCC Part15.247(e) and KDB 558074 D01 15.247 Meas Guidance v05r02

#### 8.3.2 Conformance Limit

The transmitter power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

# 8.3.3 Test Configuration

Test according to clause 7.1 radio frequency test setup 1

## 8.3.4 Test Procedure

This procedure shall be used if maximum peak conducted output power was used to demonstrate compliance

The transmitter output (antenna port) was connected to the spectrum analyzer

Set analyzer center frequency to DTS channel center frequency.

Set the span to 1.5 times the DTS bandwidth.

Set the RBW to: 3 kHz Set the VBW to:10 kHz. Set Detector = peak.

Set Sweep time = auto couple. Set Trace mode = max hold. Allow trace to fully stabilize.

Use the peak marker function to determine the maximum amplitude level within the RBW.

Note: If antenna Gain exceeds 6 dBi, then PSD Limit=8-(Gain- 6)

#### 8.3.5 Test Results

Temperature:	24 ℃	
Relative Humidity:	70 %	
ATM Pressure:	1011 mbar	

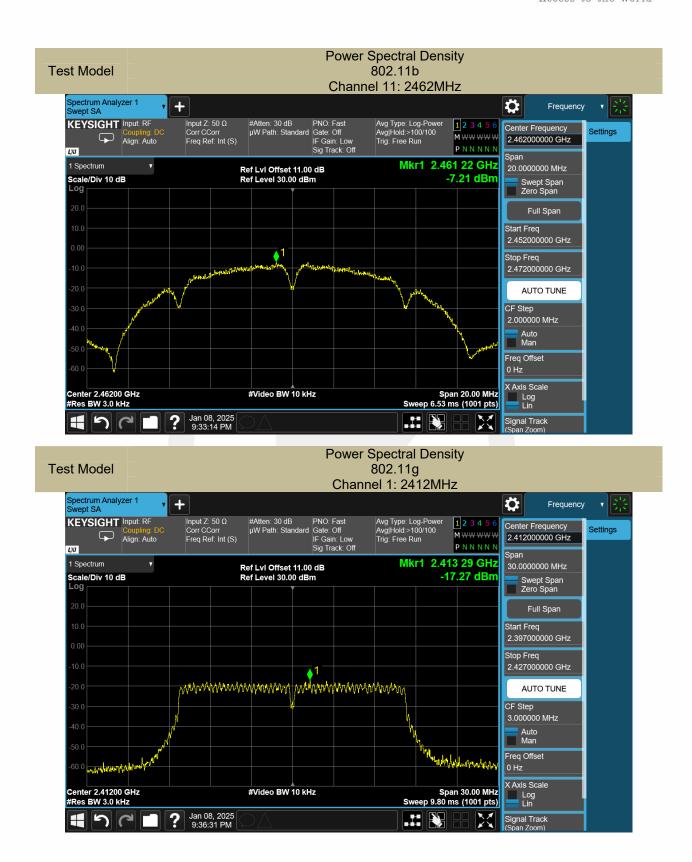
Operation Mode	Channel Number	Channel Frequency (MHz)	Measurement Level (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
	1	2412	-7.35	8	PASS
802.11b	6	2437	-6.80	8	PASS
	11	2462	-7.21	8	PASS
	1	2412	-17.27	8	PASS
802.11g	6	2437	-16.30	8	PASS
	11	2462	-17.17	8	PASS
802.11n (HT20)	1	2412	-20.65	8	PASS
	6	2437	-19.85	8	PASS
	11	2462	-20.46	8	PASS
802.11ax (HT20)	1	2412	-12.80	8	PASS
	6	2437	-13.97	8	PASS
	11	2462	-16.25	8	PASS

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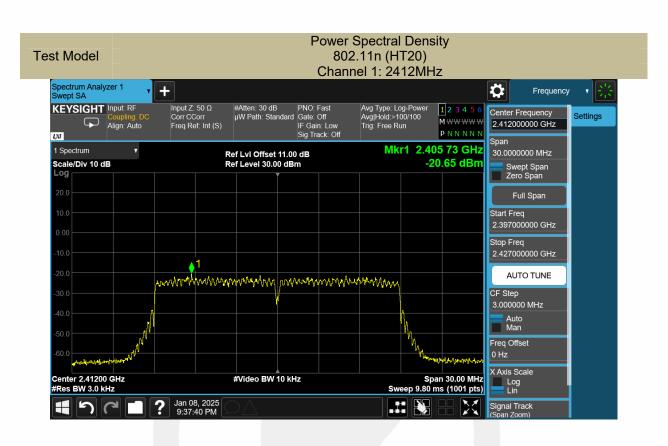






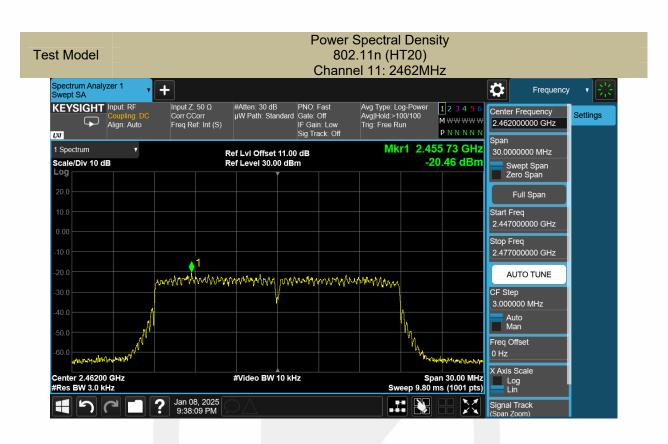






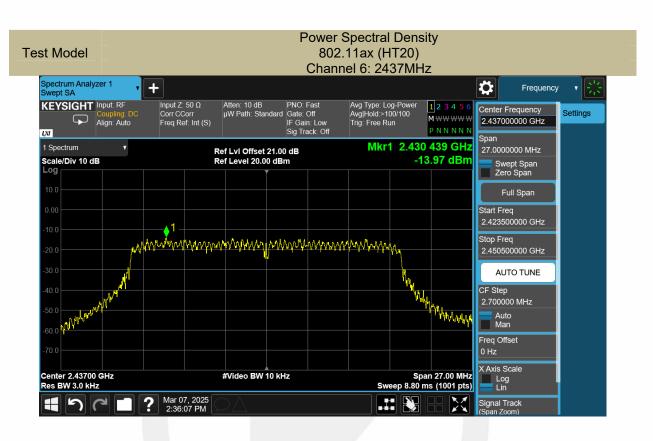














宁波市信测检测技术有限公司 EMTEK(Ningbo) Co., Ltd.



#### 8.4 UNWANTED EMISSIONS IN NON-RESTRICTED FREQUENCY BANDS

## 8.4.1 Applicable Standard

According to FCC Part15.247(d) and KDB 558074 D01 15.247 Meas Guidance v05r02

## 8.4.2 Conformance Limit

According to FCC Part 15.247(d):

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated 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, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

# 8.4.3 Test Configuration

Test according to clause 7.1 radio frequency test setup 1

#### 8.4.4 Test Procedure

The transmitter output (antenna port) was connected to the spectrum analyzer

## ■ Reference level measurement

Establish a reference level by using the following procedure:

Set instrument center frequency to DTS channel center frequency.

Set the span to ≥ 1.5 times the DTS bandwidth.

Set the RBW = 100 kHz.

Set the VBW  $\geq$  3 x RBW.

Set Detector = peak.

Set Sweep time = auto couple.

Set 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.

## **■** Emission level measurement

Set the center frequency and span to encompass frequency range to be measured.

Set the RBW = 100 kHz.

Set the VBW =300 kHz.

Set 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.

Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) are attenuated by at least the minimum requirements. Report the three highest emissions relative to the limit.

## 8.4.5 Test Results

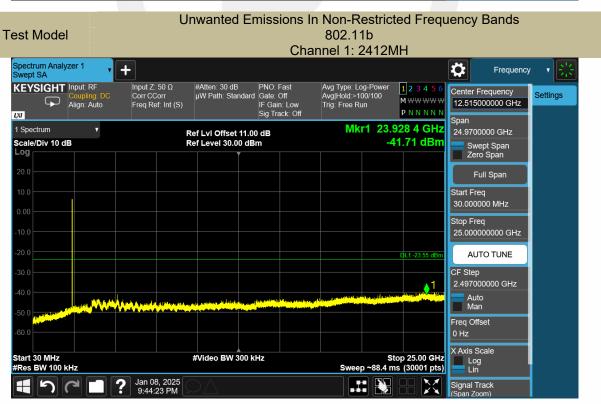
Report No. ENB2503030242W00101R

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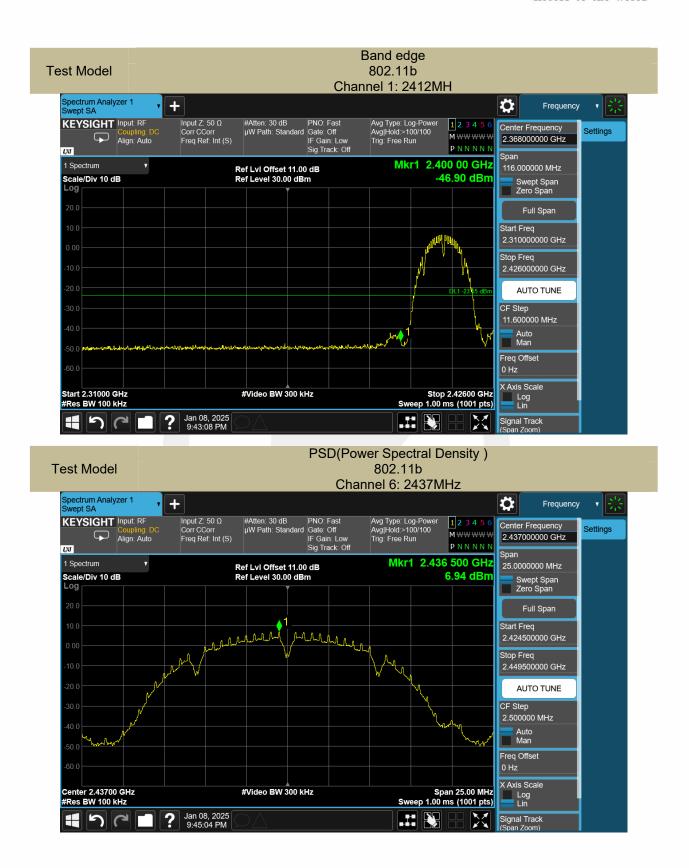


All modes 2.4G 802.11b/g/n/ax have been tested, and the worst result 802.11b recorded was report as below:











Test Model

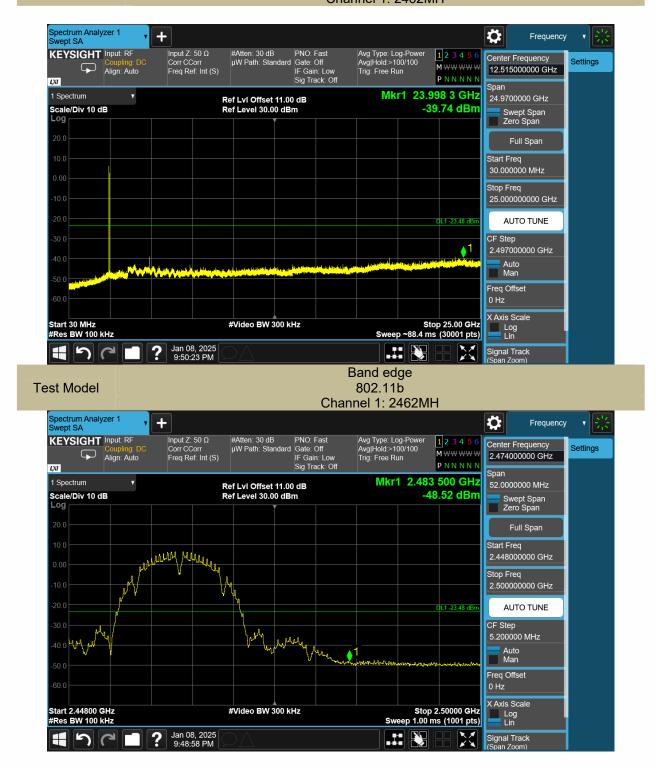
# Unwanted Emissions In Non-Restricted Frequency Bands 802.11b Channel 6: 2437MH





Test Model

# Unwanted Emissions In Non-Restricted Frequency Bands 802.11b Channel 1: 2462MH





## 8.5 RADIATED SPURIOUS EMISSION

## 8.5.1 Applicable Standard

According to FCC Part 15.247(d) and 15.209 and KDB 558074 D01 15.247 Meas Guidance v05r02

## 8.5.2 Conformance Limit

According to FCC Part 15.247(d): radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)). According to FCC Part 15.205. Restricted bands

According to 1 CC Part 13	.200, Nestricted barids		
MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
10.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(2)
13.36-13.41			

According to FCC Part15.205,the level of any transmitter spurious emission in Restricted bands shall not exceed the level of the emission specified in the following table

Restricted	Field Strength (µV/m)	Field Strength	Measurement
Frequency(MHz)		(dBµV/m)	Distance
0.009-0.490	2400/F(KHz)	20 log (uV/m)	300
0.490-1.705	24000/F(KHz)	20 log (uV/m)	30
1.705-30	30	29.5	30
30-88	100	40	3
88-216	150	43.5	3
216-960	200	46	3
Above 960	500	54	3

## 8.5.3 Test Configuration

Test according to clause 7.2 radio frequency test setup 2

# 8.5.4 Test Procedure

This test is required for any spurious emission that falls in a Restricted Band, as defined in Section 15.205. It must be performed with the highest gain of each type of antenna proposed for use with the EUT. Use the following spectrum analyzer settings:

The EUT was placed on a turn table which is 0.8m above ground plane.

Maximum procedure was performed on the highest emissions to ensure EUT compliance.

Span = wide enough to fully capture the emission being measured

RBW = 1 MHz for  $f \ge 1$  GHz(1GHz to 25GHz), 100 kHz for f < 1 GHz(30MHz to 1GHz), 200Hz for f < 150KHz(9KHz to 150KHz), 9KHz for f < 30MHz(150KHz to 30KHz)

VBW ≥ RBW Sweep = auto



Detector function = peak

Trace = max hold

Follow the guidelines in ANSI C63.10-2013 with respect to maximizing the emission by rotating the EUT, measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization, etc. A pre-amp and a high pass filter are required for this test, in order to provide the measuring system with sufficient sensitivity. Allow the trace to stabilize. The peak reading of the emission, after being corrected by the antenna factor, cable loss, pre-amp gain, etc., is the peak field strength, which must comply with the limit specified in Section 15.35(b). Submit this data.

Now set the VBW to 10 Hz, while maintaining all of the other instrument settings. This peak level, once corrected, must comply with the limit specified in Section 15.209. If the dwell time per channel of the hopping signal is less than 100 ms, then the reading obtained with the 10 Hz VBW may be further adjusted by a "duty cycle correction factor", derived from 20log(dwell time/100 ms), in an effort to demonstrate compliance with the 15.209 limit. Submit this data.

Repeat above procedures until all frequency measured was complete.

#### 8.5.5 Test Results

Temperature:	<b>21</b> ℃
Relative Humidity:	47 %
ATM Pressure:	1011 mbar

Spurious Emission below 30MHz(9KHz to 30MHz)

Freq.	Ant.Pol.	Emis Level(d	sion BuV/m)	Limit 3m(dBuV/m)		//m) Over(dB)		
(MHz)	H/V	PK `	ΑÝ	PK	AV	PK	AV	

Note: the amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

Distance extrapolation factor =40log(Specific distance/ test distance)( dB);

Limit line=Specific limits(dBuV) + distance extrapolation factor



■ Spurious Emission Above 1GHz(1GHz to 25GHz)

All modes 2.4G 802.11b/g/n/ax have been tested, and the worst result 802.11b recorded was report as below:

Test mode: 802.11 b Frequency: Channel 1: 2412 MHz

Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.	Verdict
4824.000	49.37	-8.65	40.72	74.00	33.28	PK+	V	PASS
4824.000	34.48	-8.65	25.83	54.00	28.17	AVG	V	PASS
7237.000	51.31	-0.51	50.80	74.00	23.20	PK+	V	PASS
7237.000	36.22	-0.51	35.71	54.00	18.29	AVG	V	PASS
17985.500	41.20	13.48	54.68	74.00	19.32	PK+	V	PASS
17985.500	26.18	13.48	39.66	54.00	14.34	AVG	V	PASS
Frog	Daadina	O	N/	1 1 14	NA - marina			
Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.	Verdict
		_			_	Det. PK+	Pol. H	Verdict PASS
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)			
(MHz) 4824.000	(dBµV) 48.85	(dB) -8.65	(dBµV/m) 40.20	(dBµV/m) 74.00	(dB) 33.80	PK+	Н	PASS
(MHz) 4824.000 4824.000	(dBµV) 48.85 33.82	(dB) -8.65 -8.65	(dBµV/m) 40.20 25.17	(dBµV/m) 74.00 54.00	(dB) 33.80 28.83	PK+	Н	PASS PASS
(MHz) 4824.000 4824.000 7236.000	(dBµV) 48.85 33.82 50.62	(dB) -8.65 -8.65 -0.51	(dBμV/m) 40.20 25.17 50.11	(dBµV/m) 74.00 54.00 74.00	(dB) 33.80 28.83 23.89	PK+ AVG PK+	H H	PASS PASS PASS

Test mode: 802.11 b Frequency: Channel 6:2437 MHz

Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.	Verdict
4874.000	44.49	-8.27	36.22	74.00	37.78	PK+	V	PASS
4874.000	29.64	-8.27	21.37	54.00	32.63	AVG	V	PASS
7311.000	43.23	-0.39	42.84	74.00	31.16	PK+	V	PASS
7311.000	28.32	-0.39	27.93	54.00	26.07	AVG	V	PASS
17950.500	41.48	13.06	54.54	74.00	19.46	PK+	V	PASS
17950.500	26.49	13.06	39.55	54.00	14.45	AVG	V	PASS
Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.	Verdict
4874.000	46.85	-8.27	38.58	74.00	35.42	PK+	Н	PASS
4874.000	31.94	-8.27	23.67	54.00	30.33	AVG	Н	PASS
7311.000	43.99	-0.39	43.60	74.00	30.40	PK+	Н	PASS
7311.000	28.90	-0.39	28.51	54.00	25.49	AVG	Н	PASS
17966.500	41.73	13.25	54.98	74.00	19.02	PK+	Н	PASS
17966.500	26.83	13.25	40.08	54.00	13.92	AVG	Н	PASS



Test mode: 802.11 b Frequency: Channel 11:2462 MHz

Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.	Verdict
4924.000	55.83	-7.81	48.02	74.00	25.98	PK+	V	PASS
4924.000	40.95	-7.81	33.14	54.00	20.86	AVG	V	PASS
7385.000	47.80	-0.27	47.53	74.00	26.47	PK+	V	PASS
7385.000	32.94	-0.27	32.67	54.00	21.33	AVG	V	PASS
17963.000	41.63	13.21	54.84	74.00	19.16	PK+	V	PASS
17963.000	26.74	13.21	39.95	54.00	14.05	AVG	V	PASS
Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.	Verdict
4924.000	52.20	-7.81	44.39	74.00	29.61	PK+	Н	PASS
4924.000	37.23	-7.81	29.42	54.00	24.58	AVG	Н	PASS
7387.500	50.27	-0.27	50.00	74.00	24.00	PK+	Н	PASS
7387.500	35.45	-0.27	35.18	54.00	18.82	AVG	Н	PASS
17984.500	41.73	13.47	55.20	74.00	18.80	PK+	Н	PASS
17984.500	26.69	13.47	40.16	54.00	13.84	AVG	Н	PASS

Note: (1) All Readings are Peak Value (VBW=3MHz) and Average Value (VBW=10Hz).

<sup>(2)</sup> Emission Level= Reading Level+Correct Factor. (3) Correct Factor= Ant\_F + Cab\_L - Preamp

<sup>(4)</sup> The reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.



■ Spurious Emission in Restricted Band 2310-2390MHz and 2483.5-2500MHz All modes 2.4G 802.11b/g/n/ax have been tested, and the worst result 802.11b recorded was report as below:

Test mode: 802.11 b Frequency: Channel 1: 2412MHz

Frequency (MHz)	Polarity	PK(dBuV/m) (VBW=3MHz)	Limit 3m (dBuV/m)	AV(dBuV/m) (VBW=10Hz)	Limit 3m (dBuV/m)
2382.760	Н	57.77	74.00	43.15	54.00
2338.280	V	58.59	74.00	43.27	54.00

Test mode: 802.11 b Frequency: Channel 11: 2462MHz

Frequency (MHz)	Polarity	PK(dBuV/m) (VBW=3MHz)	Limit 3m (dBuV/m)	AV(dBuV/m) (VBW=10Hz)	Limit 3m (dBuV/m)
2487.328	Н	59.01	74.00	45.18	54.00
2490.422	V	57.96	74.00	43.09	54.00

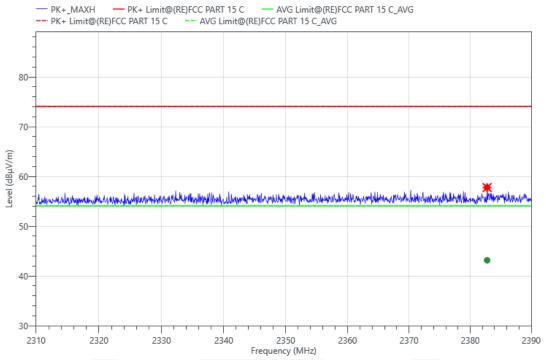
Note: (1) All Readings are Peak Value (VBW=3MHz) and Average Value (VBW=10Hz).

- (2) Emission Level= Reading Level+Correct Factor +Cable Loss.
- (3) Correct Factor= Ant\_F + Cab\_L Preamp
- (4) The reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

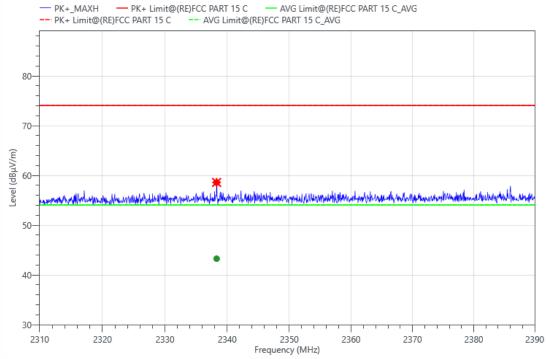
Report No. ENB2503030242W00101R



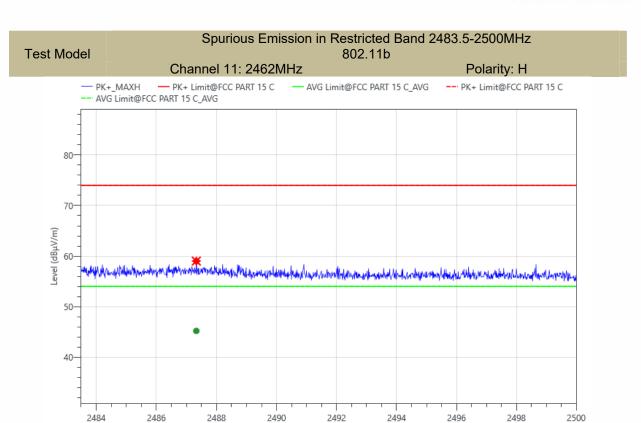




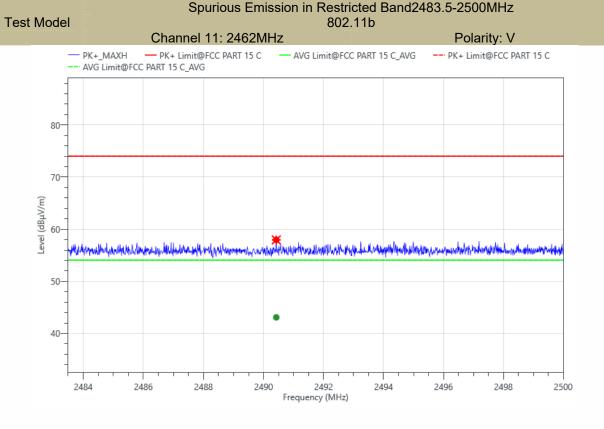








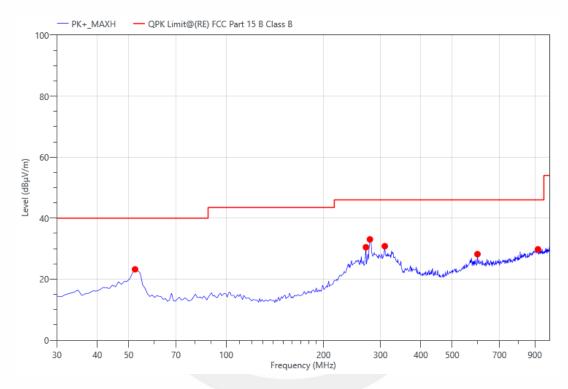
Frequency (MHz)





- Spurious Emission below 1GHz (30MHz to 1GHz)
- All modes 2.4G 802.11b/g/n have been tested, and the worst result 802.11g recorded was report as below:

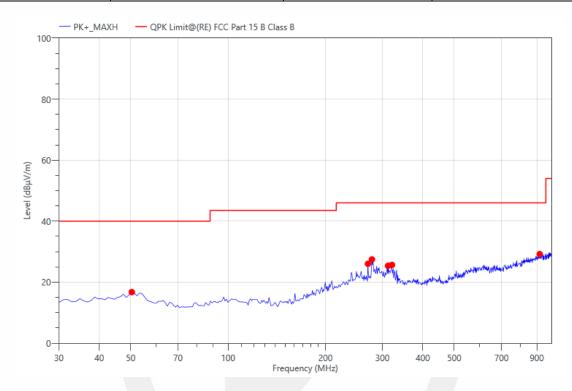
Project Information								
Mode:	TX2412 MHz	Voltage:	DC 5V					
Environment:	Temp: 21 ℃; Humi:47 %	Engineer:	WK Luo					



Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Height (cm)	Pol.	Azimuth (deg)	Verdict
52.310	47.78	-24.55	23.23	40.00	16.77	QPK	100	٧	176.0	PASS
270.560	53.25	-22.78	30.47	46.00	15.53	QPK	100	V	179.6	PASS
278.320	55.85	-22.79	33.06	46.00	12.94	QPK	100	V	176.6	PASS
309.360	52.68	-21.85	30.83	46.00	15.17	QPK	100	V	198.9	PASS
598.420	42.93	-14.72	28.21	46.00	17.79	QPK	100	V	95.1	PASS
920.460	41.28	-11.48	29.80	46.00	16.20	QPK	100	V	137.9	PASS



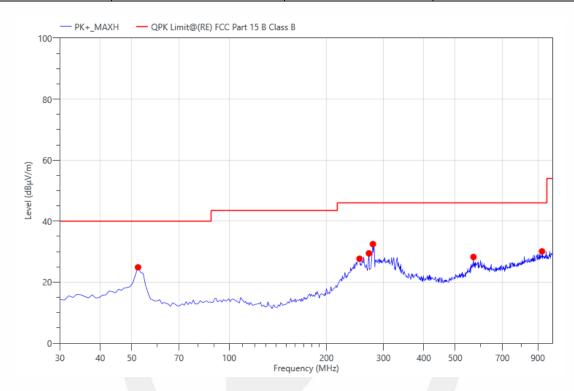
Project Information								
Mode:	TX2412 MHz	Voltage:	DC 5V					
Environment:	Temp: 21 °C; Humi:47 %	Engineer:	WK Luo					



Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Height (cm)	Pol.	Azimuth (deg)	Verdict
50.370	40.97	-24.22	16.75	40.00	23.25	QPK	100	Ι	253.3	PASS
270.560	48.81	-22.78	26.03	46.00	19.97	QPK	100	Н	152.7	PASS
278.320	50.26	-22.79	27.47	46.00	18.53	QPK	100	Н	211.1	PASS
312.270	47.06	-21.68	25.38	46.00	20.62	QPK	100	Н	136.7	PASS
321.000	46.81	-21.14	25.67	46.00	20.33	QPK	100	Н	236.7	PASS
918.520	40.69	-11.49	29.20	46.00	16.80	QPK	100	Η	224.2	PASS



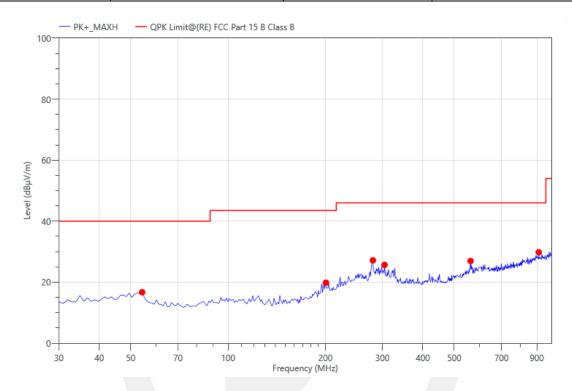
	Project	Information	
Mode:	TX2437 MHz	Voltage:	DC 5V
Environment:	Temp: 21 °C; Humi:47 %	Engineer:	WK Luo



Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Height (cm)	Pol.	Azimuth (deg)	Verdict
52.310	49.43	-24.55	24.88	40.00	15.12	QPK	100	V	144.2	PASS
253.100	50.42	-22.72	27.70	46.00	18.30	QPK	100	<b>V</b>	109.4	PASS
270.560	52.24	-22.78	29.46	46.00	16.54	QPK	100	V	311.6	PASS
278.320	55.28	-22.79	32.49	46.00	13.51	QPK	100	V	24.9	PASS
569.320	44.14	-15.88	28.26	46.00	17.74	QPK	100	V	232.5	PASS
927.250	41.57	-11.46	30.11	46.00	15.89	QPK	100	٧	134.8	PASS



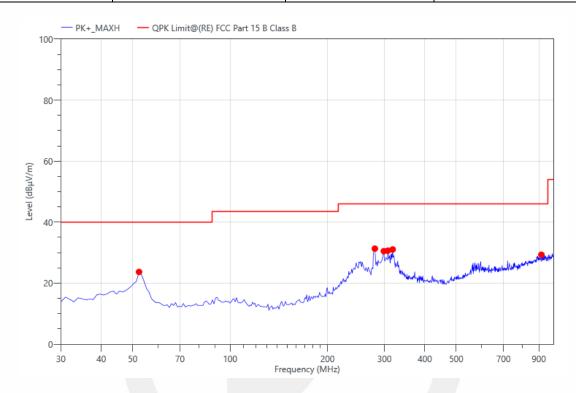
	Project	Information	
Mode:	TX2437 MHz	Voltage:	DC 5V
Environment:	Temp: 21 ℃; Humi:47 %	Engineer:	WK Luo



Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Height (cm)	Pol.	Azimuth (deg)	Verdict
54.250	41.60	-24.89	16.71	40.00	23.29	QPK	100	Ι	151.1	PASS
200.720	44.48	-24.64	19.84	43.50	23.66	QPK	100	Н	142.0	PASS
280.260	49.94	-22.77	27.17	46.00	18.83	QPK	100	Н	134.7	PASS
304.510	47.75	-22.08	25.67	46.00	20.33	QPK	100	Н	238.8	PASS
561.560	42.98	-16.02	26.96	46.00	19.04	QPK	100	Н	208.0	PASS
912.700	41.30	-11.51	29.79	46.00	16.21	QPK	100	Η	138.8	PASS



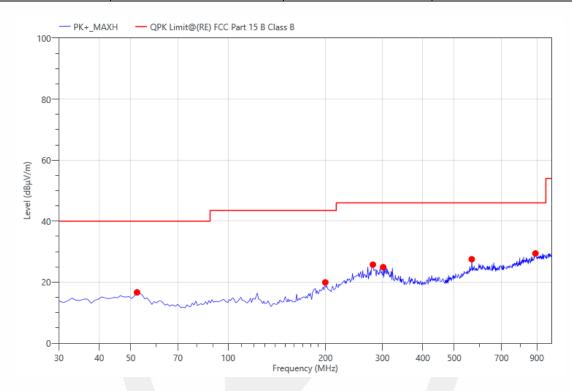
	Project	Information	
Mode:	TX2462 MHz	Voltage:	DC 5V
Environment:	Temp: 21 °C; Humi:47 %	Engineer:	WK Luo



Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Height (cm)	Pol.	Azimuth (deg)	Verdict
52.310	48.24	-24.55	23.69	40.00	16.31	QPK	100	>	68.6	PASS
280.260	54.10	-22.77	31.33	46.00	14.67	QPK	100	V	121.2	PASS
298.690	52.83	-22.33	30.50	46.00	15.50	QPK	100	V	356.7	PASS
307.420	52.59	-21.94	30.65	46.00	15.35	QPK	100	V	0.2	PASS
318.090	52.37	-21.31	31.06	46.00	14.94	QPK	100	V	90.9	PASS
916.580	40.84	-11.5	29.34	46.00	16.66	QPK	100	V	129.6	PASS



	Project	Information	
Mode:	TX2462 MHz	Voltage:	DC 5V
Environment:	Temp: 21 °C; Humi:47 %	Engineer:	WK Luo



Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Height (cm)	Pol.	Azimuth (deg)	Verdict
52.310	41.21	-24.55	16.66	40.00	23.34	QPK	100	Η	0.9	PASS
199.750	44.62	-24.68	19.94	43.50	23.56	QPK	100	Н	232.3	PASS
280.260	48.52	-22.77	25.75	46.00	20.25	QPK	100	Н	26.6	PASS
301.600	47.14	-22.22	24.92	46.00	21.08	QPK	100	Н	209.6	PASS
566.410	43.45	-15.93	27.52	46.00	18.48	QPK	100	Η	186.6	PASS
891.360	41.28	-11.86	29.42	46.00	16.58	QPK	100	Τ	359.5	PASS



## 8.6 CONDUCTED EMISSIONS TEST

# 8.6.1 Applicable Standard

According to FCC Part 15.207(a)

## 8.6.2 Conformance Limit

## Conducted Emission Limit

Frequency(MHz)	Quasi-peak	Average
0.15-0.5	66-56	56-46
0.5-5.0	56	46
5.0-30.0	60	50

Note: 1. The lower limit shall apply at the transition frequencies

2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

## 8.6.3 Test Configuration

Test according to clause 7.3conducted emission test setup

## 8.6.4 Test Procedure

The EUT was placed on a table which is 0.8m above ground plane.

Maximum procedure was performed on the highest emissions to ensure EUT compliance.

Repeat above procedures until all frequency measured were complete.

## 8.6.5 Test Results

N/A.



# 8.7 ANTENNA APPLICATION

## 8.7.1 Antenna Requirement

Standard	Requirement
FCC CRF Part15.203	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 shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §15.211, §15.213, §15.217,§15.219, or §15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

For intentional device, according to FCC 47 CFR 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. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

8.7.2	Result
	PASS.
∙ Note:	The EUT has 1 antenna: one an FPC antenna for WIFI 2.4G, the gain is 0.5 dBi,
	Which in accordance to section 15.203, please refer to the internal photos.
	*** End of Report ***



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Report No. ENB2503030242W00101R