FCC Test Report

Report No.:	2505R50271EA-A1
Applicant:	ZHENGZHOU DEWENWILS NETWORK TECHNOLOGY CO., LTD.
Address:	No.2602, 26th Floor, Block B, Dongfang Building No. 198-19 Songshan South Road, Erqi District, Zhengzhou, China
Product Name:	Smart timer Box
Product Model:	PTW01
Multiple Models:	PTW02, PTW03, PTW04
Trade Mark:	dewenwils
FCC ID:	2A4G9-016
Standards:	FCC CFR Title 47 Part 15C (§15.247)
Test Date:	2025-04-07 to 2025-04-22
Test Result:	Complied
Report Date:	2025-04-28

Reviewed by:	Luke Li	**Approved by:**	Jacob Gong
	Luke Li Project Engineer		Jacob Kong Manager

Prepared by:

World Alliance Testing & Certification (Shenzhen) Co., Ltd

No. 1002, East Block, Laobing Building, Xingye Road 3012, Xixiang street, Bao'an District, Shenzhen, Guangdong, People's Republic of China

NVLAP TESTING NVLAP LAB CODE 600335-0

ilac-MRA

This report may contain data that are not covered by the NVLAP accreditation and shall be marked with an asterisk "★"

Announcement

1. This test report shall not be reproduced except in full, without the written approval of World Alliance Testing & Certification (Shenzhen) Co., Ltd

2. The results in this report apply only to the sample tested.

3. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Government.

4. The information marked "#" is provided by the applicant, the laboratory is not responsible for its authenticity and this information can affect the validity of the result in the test report. Customer model name, addresses, names, trademarks etc. are included.

Revision History

Version No.	Report No.	Issued Date	Description
00	2405U43320EA	*2024-06-19*	*Original*
01	2505R50271EA-A1	*2025-04-28*	*CIIPC*

Contents

1 General Information

1.1 Client Information

Applicant:	ZHENGZHOU DEWENWILS NETWORK TECHNOLOGY CO., LTD.
Address:	No.2602, 26th Floor, Block B, Dongfang Building No. 198-19 Songshan South Road, Erqi District, Zhengzhou, China
Manufacturer:	ZHENGZHOU DEWENWILS NETWORK TECHNOLOGY CO., LTD.
Address:	No.2602, 26th Floor, Block B, Dongfang Building No. 198-19 Songshan South Road, Erqi District, Zhengzhou, China

1.2 Product Description of EUT

The EUT is Smart timer Box that contains BLE and 2.4G WLAN radios, this report covers the full testing of the 2.4G WLAN radio.

Sample Serial Number	CE&RE(below 1GHz): 30EP-2(PTW02), 30EP-4(PTW04) CE&RE: 30EP-3(PTW03) RF: 30EP-5(PTW03) (assigned by WATC)
Sample Received Date	2025-03-27
Sample Status	Good Condition
Frequency Range	2412MHz - 2462MHz(802.11b, g, n-HT20) 2422MHz - 2452MHz(802.11n-HT40)
Maximum Conducted Peak Output Power	16.99dBm
Modulation Technology	DSSS, OFDM
Antenna Gain#	2dBi
Spatial Streams#	SISO (1TX, 1RX)
Power Supply	PTW 01/ PTW 03: AC 120V/60Hz PTW 02/ PTW 04: AC 240V/60Hz
Adapter Information	N/A
Modification	Sample No Modification by the test lab

1.3 Antenna information

15.203 requirement:

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

Device Antenna information:	

The Wi-Fi antenna is an integral antenna which cannot replace by end-user. Please see product internal photos for details.

1.4 Related Submittal(s)/Grant(s)

No Related Submittal(s)/Grant(s)

1.5 Measurement Uncertainty

Parameter		Expanded Uncertainty (Confidence of 95%(U = 2Uc(y)))
AC Power Lines Conducted Emissions		±3.14dB
Emissions, Radiated	Below 30MHz	±2.78dB
	Below 1GHz	±4.84dB
	Above 1GHz	±5.44dB
Emissions, Conducted		1.75dB
Conducted Power		0.74dB
Frequency Error		150Hz
Bandwidth		0.34%
Power Spectral Density		0.74dB
Note: *The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.*		

1.6 Laboratory Location

World Alliance Testing & Certification (Shenzhen) Co., Ltd

No. 1002, East Block, Laobing Building, Xingye Road 3012, Xixiang street, Bao'an District, Shenzhen, Guangdong, People's Republic of China

Tel: +86-755-29691511, Email: qa@watc.com.cn

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 463912, the FCC Designation No. : CN5040.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0160.

1.7 Test Methodology

FCC CFR 47 Part 2

FCC CFR 47 Part 15

KDB 558074 D01 15.247 Meas Guidance v05r02

ANSI C63.10-2020

Unless otherwise stated there are no any additions to, deviations, or exclusions from the method

2 Description of Measurement

2.1 Test Configuration

Operating channels:					
Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
1	2412	5	2432	9	2452
2	2417	6	2437	10	2457
3	2422	7	2442	11	2462
4	2427	8	2447	/	/

According to ANSI C63.10-2020 chapter 5.6.1 Table 11 requirement, select lowest channel, middle channel, and highest channel in the frequency range in which device operates for testing. The detailed frequency points are as follows:

802.11b, 802.11g, 802.11n-HT20

Lowest channel		Middle channel		Highest channel	
Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
1	2412	6	2437	11	2462

802.11n-HT40

Lowest channel		Middle channel		Highest channel	
Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
3	2422	6	2437	9	2452

Test Mode:	
Transmitting mode:	Keep the EUT in continuous transmitting with modulation
Exercise software#:	Wifi_Test_Tool

Mode	Worst-case Data rate	Power Level Setting#		
		Low Channel	Middle Channel	High Channel
802.11b	1Mbps	8	8	8
802.11g	6Mbps	20	20	20
802.11n-HT20	6.5Mbps	20	20	20
802.11n-HT40	13.5Mbps	6	6	6

The exercise software and the maximum power setting that provided by manufacturer.

Worst-Case Configuration:

For AC power line conducted emission and radiated emission 9kHz-1GHz and above 18GHz were performed with the EUT transmits at the channel with highest output power as worst-case scenario.

For radiated emissions below 30MHz, three antenna orientations (parallel, perpendicular, gound-parallel) were tested, only record the worse case test data in report.

EUT model PTW 01/PTW 02/PTW 03/PTW 04 is electrical identical, except for difference voltage supply

and shell material, Model PTW 01 and PTW 03 support AC120V power supply, Model PTW 02 and PTW 04 support AC240V power supply, Model PTW 01 and PTW 02 is metal shell, and Model PTW 03 and PTW 04 is plastic shell, detail please refer to the DOS letter# provided by applicant and EUT photo.

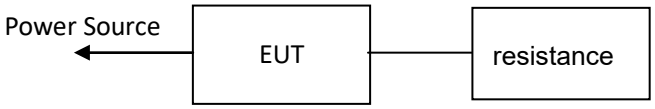
2.2 Test Auxiliary Equipment

Manufacturer	Description	Model	Serial Number
unknown	resistance	unknown	unknown

2.1 Interconnecting Cables

Manufacturer	Description	Length(m)	From	To
Unknown	Power cable	1.0	Power Source	EUT
Unknown	Power cable	0.3	EUT	resistance

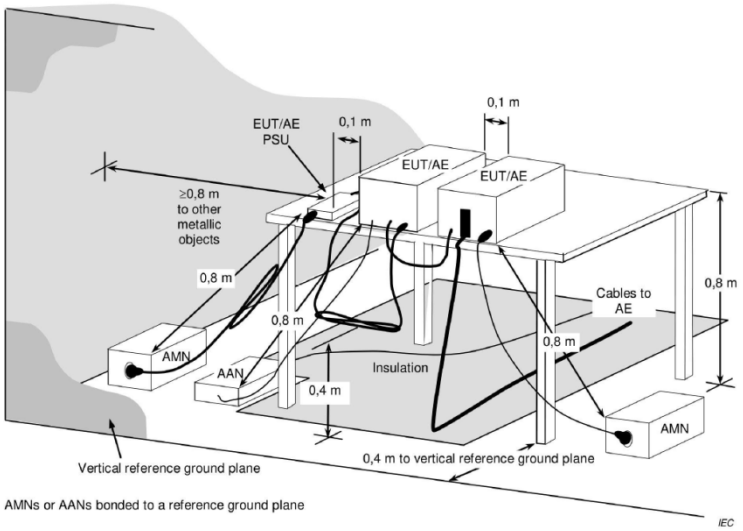
2.2 Block Diagram of Connection between EUT and AE



Note: for reference only, the actual connection setup used for testing please refer to the test photos.

2.3 Test Setup

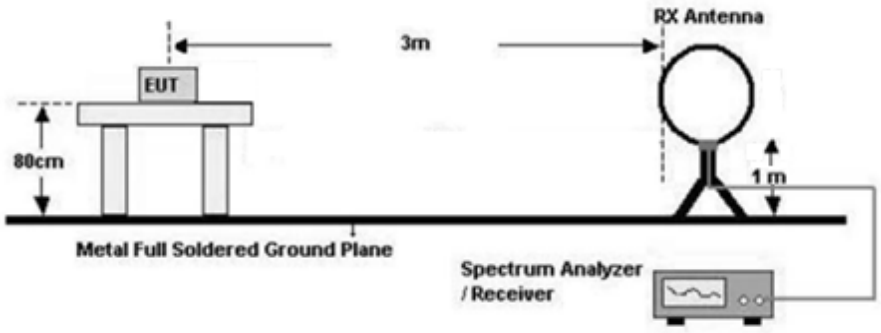
1) Conducted emission measurement:



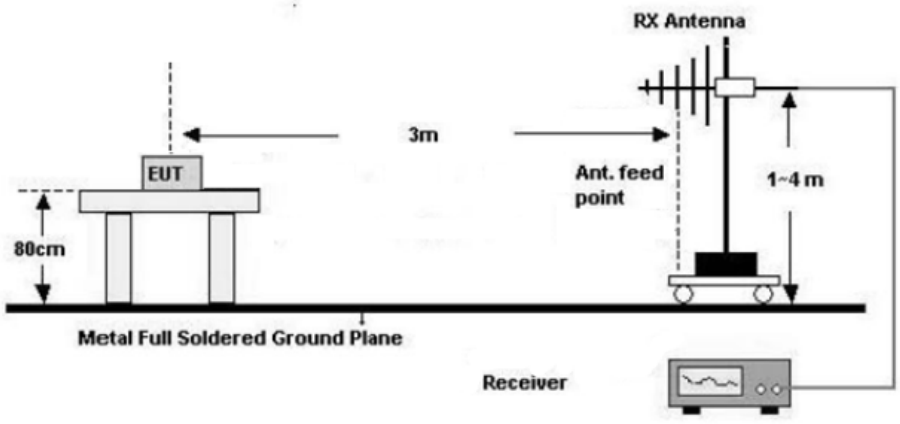
Note: The 0.8 m distance specified between EUT/AE/PSU and AMN/AAN, is applicable only to the EUT being measured. If the device is AE then it shall be >0.8 m.

2) Radiated emission measurement:

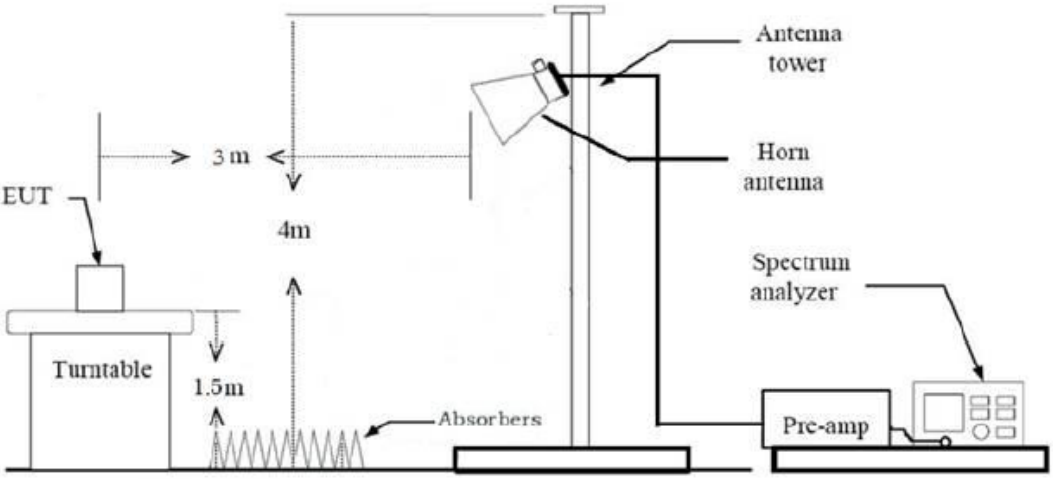
Below 30MHz (3m SAC)



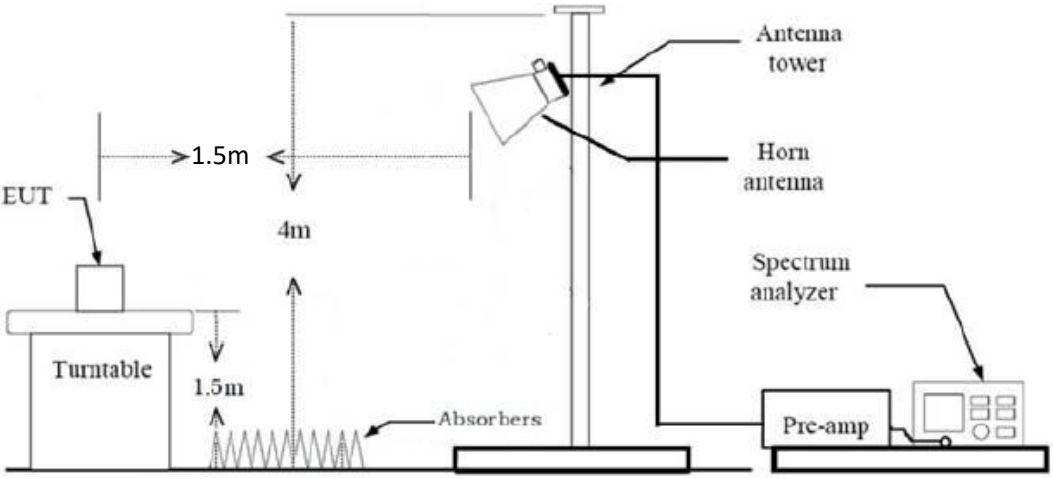
30MHz-1GHz (3m SAC)



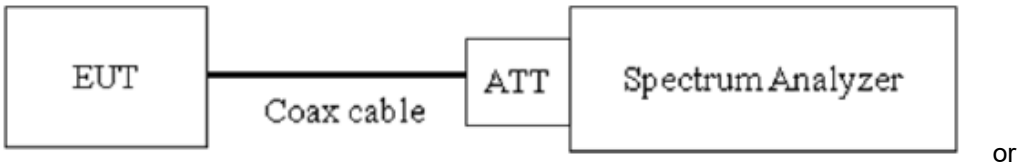
1GHz-18GHz



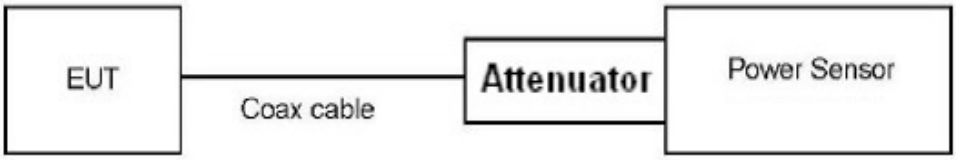
Above 18GHz



3) RF Conducted Test



or



2.4 Test Procedure

Conducted emission:

1. The E.U.T is placed on a non-conducting table 40cm from the vertical ground plane and 80cm above the horizontal ground plane (Please refer to the block diagram of the test setup and photographs).
2. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.
3. Line conducted data is recorded for both Line and Neutral

Radiated Emission Procedure:

a) For below 30MHz

1. All measurements were made at a test distance of 3 m. The measured data was extrapolated from the test distance (3m) to the specification distance (300 m from 9-490 kHz and 30 m from 490 kHz- 30 MHz) to clearly show the relative levels of fundamental and spurious emissions and demonstrate compliance with the requirement that the level of any spurious emissions be below the level of the intentionally transmitted signal. The extrapolation factor for the limits were 40*Log (test distance / specification distance).
2. Loop antenna use, investigation was done on the three antenna orientations (parallel, perpendicular, gound-parallel)
3. The RBW/VBW of receiver is set to 200Hz/1kHz for 9kHz to 150kHz range, to 9kHz/30kHz for 150kHz to 30MHz range for scan Peak emission, 200Hz/9kHz IF BW was used for final measurement in the Quasi-peak or average detection mode for frequency range 9~150kHz/150kHz~30MHz respectively.
4. If the Peak emission complies with the QP limit, then perform final measurement is optional.

b) For 30MHz-1GHz:

1. The EUT was placed on the tabletop of a rotating table 0.8 m the ground at a 3 m semi anechoic chamber. The measurement distance from the EUT to the receiving antenna is 3 m.
2. EUT works in each mode of operation that needs to be tested. The highest signal levels relative to the limit shall be determined by rotating the EUT from 0° to 360° and with varying the measurement antenna height between 1 m and 4 m in vertical and horizontal polarizations.
3. The RBW/VBW of receiver is set to 100kHz/300kHz for scan Peak emission, 120kHz IF BW was used for final measurement in the Quasi-peak detection mode.
4. If the Peak emission complies with the QP limit, then perform final measurement is optional.

c) For above 1GHz:

1. The EUT was placed on the tabletop of a rotating table 1.5 m the ground at a 3 m chamber. The measurement distance from the EUT to the receiving antenna is 3 m (1-18GHz) and 1.5 m (above 18GHz).
2. EUT works in each mode of operation that needs to be tested，and having the EUT continuously working. The highest signal levels relative to the limit shall be determined by rotating the EUT from 0° to 360° and with varying the measurement antenna height between 1 m and 4 m in vertical and horizontal polarizations.
3. The RBW/VBW of spectrum analyzer is set to 1MHz/3MHz for scan Peak emission, for measured average emission, reduce the VBW to 10Hz(for duty cycle≥98%), or ≥1/T(for duty cycle<98%). T is

minimum transmission duration. (Note: a high VBW (for example 1kHz, not less than 1/T) may used to scan average emissions to avoid long sweep time.)

4. If the Peak emission complies with the Average limit, then perform average measurement is optional.
5. Open the test software to control the test antenna and test turntable. Perform the test, save the test results, and export the test data.
6. Base on FCC part 15.31(f): measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field.

RF Conducted Test:

1. The antenna port of EUT was connected to the RF port of the test equipment (Power Meter or Spectrum analyzer) through Attenuator and RF cable.
2. The cable assembly insertion loss of 7.0dB (including 6.0 dB Attenuator and 1.0 dB cable) was entered as an offset in the power meter. Note: Actual cable loss was unavailable at the time of testing, therefore a loss of 1.0dB was assumed as worst case. This was later verified to be true by laboratory. (if the RF cable provided by client, the cable loss declared by client)
3. The EUT is keeping in continuous transmission mode and tested in all modulation modes.

2.5 Measurement Method

Description of Test	Measurement Method
AC Line Conducted Emissions	ANSI C63.10-2020 Section 6.2
Maximum Conducted Output Power	ANSI C63.10-2020 Section 11.9.1.2 PKPM1 Peak power meter method or ANSI C63.10-2020 Section 11.9.2.3.2 Method AVGPM-G
Power Spectral Density	ANSI C63.10-2020 Section 11.10.2 Method PKPSD (peak PSD)
6 dB Emission Bandwidth	ANSI C63.10-2020 Section 11.8.1
99% Occupied Bandwidth	ANSI C63.10-2020 Section 6.9.3
100kHz Bandwidth of Frequency Band Edge	ANSI C63.10-2020 Section 6.10
Radiated emission	ANSI C63.10-2020 Section 11.11&11.12
Duty Cycle	ANSI C63.10-2020 Section 11.6

2.6 Measurement Equipment

Manufacturer	Description	Model	Management No.	Calibration Date	Calibration Due Date
AC Line Conducted Emission Test					
ROHDE& SCHWARZ	EMI TEST RECEIVER	ESR	101817	2024/6/4	2025/6/3
R&S	LISN	ENV216	101748	2024/6/4	2025/6/3
N/A	Coaxial Cable	NO.12	N/A	2024/6/4	2025/6/3
Farad	Test Software	EZ-EMC	Ver. EMEC-3A1	/	/
Radiated Emission Test					
R&S	EMI test receiver	ESR3	102758	2024/6/4	2025/6/3
ROHDE& SCHWARZ	SPECTRUM ANALYZER	FSV40-N	101608	2024/6/4	2025/6/3
SONOMA INSTRUMENT	Low frequency amplifier	310	186014	2024/6/4	2025/6/3
A.H. Systems	PREAMPLIFIER	PAM-0118P	531	2024/6/4	2025/6/3
COM-POWER	Amplifier	PAM-840A	461306	2024/8/7	2025/8/6
BACL	Loop Antenna	1313-1A	4010611	2024/2/7	2027/2/6
SCHWARZBECK	Log - periodic wideband antenna	VULB 9163	9163-872	2023/7/7	2026/7/6
Astro Antenna Ltd	Horn antenna	AHA-118S	3015	2023/7/6	2026/7/5
Ducommun technologies	Horn Antenna	ARH-4223-02	1007726-03	2023/7/10	2026/7/9
Oulitong	Band Reject Filter	OBSF-2400-2483.5-50N	OE02103119	2024/6/4	2025/6/3
N/A	Coaxial Cable	NO.9	N/A	2024/6/4	2025/6/3
N/A	Coaxial Cable	NO.13	N/A	2024/8/7	2025/8/6
N/A	Coaxial Cable	NO.15	N/A	2024/6/4	2025/6/3
N/A	Coaxial Cable	NO.16	N/A	2024/6/4	2025/6/3
N/A	Coaxial Cable	NO.17	N/A	2024/6/4	2025/6/3
Audix	Test Software	E3	191218 V9	/	/
RF Conducted Test					
ANRITSU	USB Power Sensor	MA24418A	12620	2024/6/4	2025/6/3
narda	6dB attenuator	603-06-1	N/A	2024/6/4	2025/6/3

Note: All equipment is calibrated with valid calibrations. Each measurement data is traceable to the national or International standards.

3 Test Results

3.1 Test Summary

FCC Rules	Description of Test	Result	Remark
§15.203	Antenna Requirement	Compliance	/
§15.207 (a)	AC Line Conducted Emissions	Compliance	/
§15.247(b)(3)	Maximum Conducted Output Power	Report only	See Note
§15.247(e)	Power Spectral Density	Compliance	See Note
§15.247 (a)(2)	6 dB Emission Bandwidth	Compliance	See Note
-	99% Occupied Bandwidth	Report only	See Note
§15.247(d)	100kHz Bandwidth of Frequency Band Edge	Compliance	See Note
§15.205, §15.209, §15.247(d)	Radiated emission	Compliance	/
-	Duty Cycle	Report only	See Note

Note:
This is a Class II Permissive Change test report. The applicant declared the difference# between current EUT and original device (Granted on 2024/07/18) as below:

1. Add the Multiple Models and the shell material of the new models is changed to plastic
2. the Multiple Models has two difference power board which with difference voltage
3. the WiFi control board to avoid the light guide columns of D1 and D3, the positions of R29 and ZD2 have been moved.

Base on above difference, the output power of Wi-Fi was checked and consist with original report, the changes not affect those items so those items please refer the original report.

3.2 Limit

Test items	Limit
AC Line Conducted Emissions	See details §15.207 (a)
Conducted Output Power	For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt.
6dB Emission Bandwidth	The minimum 6 dB bandwidth shall be at least 500 kHz.
Power Spectral Density	For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.
Spurious Emissions, 100kHz Bandwidth of Frequency Band Edge	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. Attenuation below the general limits specified in §15.209(a) is not required. In addition, 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)).

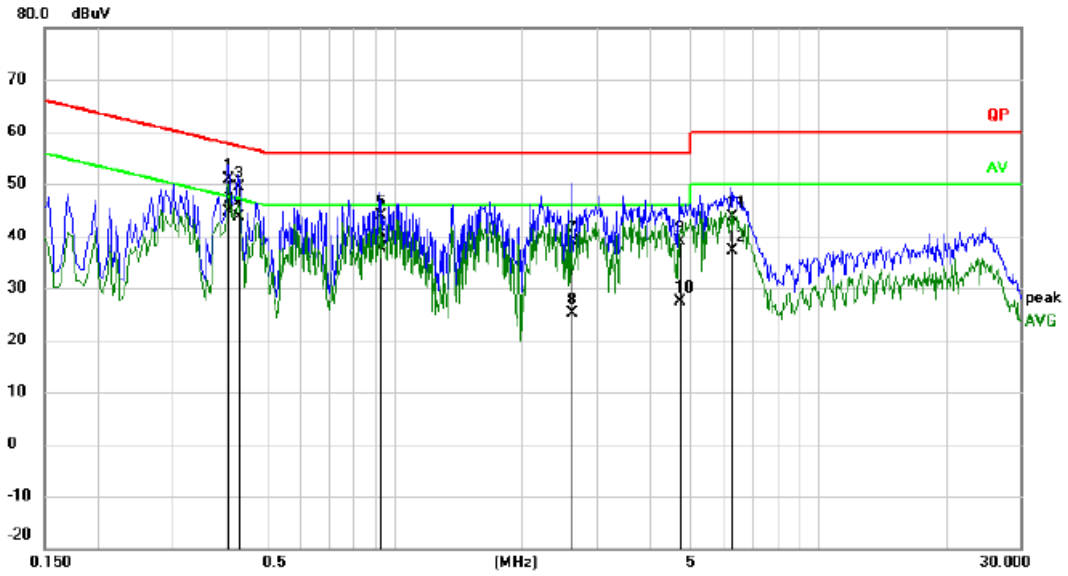
3.3 AC Line Conducted Emissions Test Data

Test Date:	2025-04-17	Test By:	Ryan Zhang
Environment condition:	Temperature: 24.9°C; Relative Humidity:65%; ATM Pressure: 101.0kPa		

Model: PTW02

Conducted Emission Measurement

File :2505R50271E-RFA1 Data :#2 Date: 2025/4/17 Time: 09:10:48



Limit: QP
Mode: Transmitting
Note: 802.11g 2412

Phase: L1
Power: AC 240V/60Hz

Temperature: 24.9 ℃
Humidity: 65 %
Air Pressure: 1010 hpa

Receiver Setting:
9~150kHz(if apply): Pre-scan: RBW: 200Hz, DET: PK/AV; Final measure: RBW: 200Hz, DET: QP/AV
0.15~30MHz: Pre-scan: RBW: 9kHz, DET: PK/AV; Final measure: RBW: 9kHz, DET: QP/AV

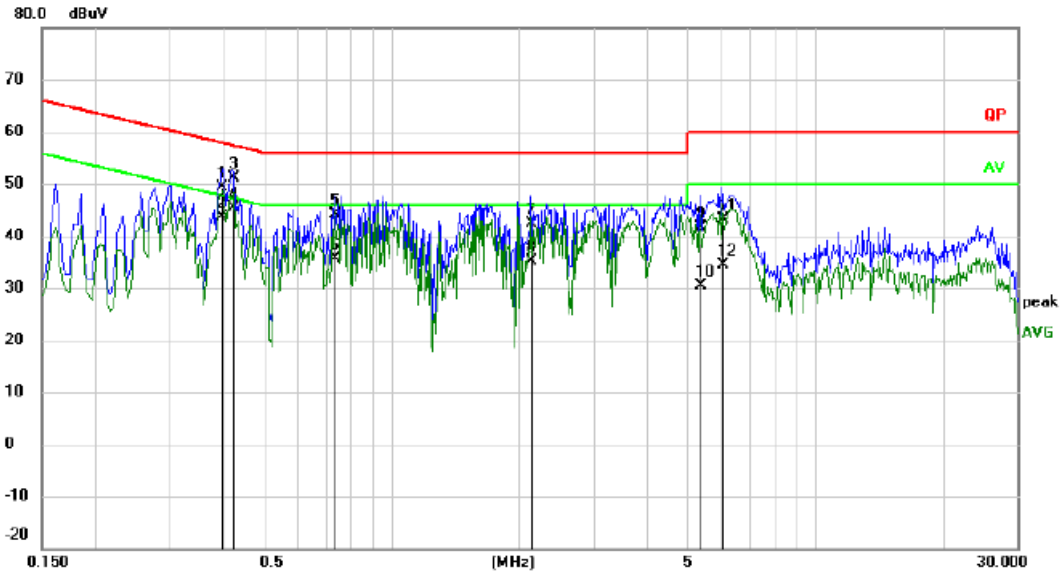
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over Limit		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.4060	40.47	10.52	50.99	57.73	-6.74	QP	
2	*	0.4060	34.08	10.52	44.60	47.73	-3.13	AVG	
3		0.4300	38.96	10.53	49.49	57.25	-7.76	QP	
4		0.4300	33.06	10.53	43.59	47.25	-3.66	AVG	
5		0.9260	33.31	10.65	43.96	56.00	-12.04	QP	
6		0.9260	26.88	10.65	37.53	46.00	-8.47	AVG	
7		2.6340	28.13	10.72	38.85	56.00	-17.15	QP	
8		2.6340	14.37	10.72	25.09	46.00	-20.91	AVG	
9		4.7140	28.42	10.50	38.92	56.00	-17.08	QP	
10		4.7140	16.95	10.50	27.45	46.00	-18.55	AVG	
11		6.2380	33.35	10.35	43.70	60.00	-16.30	QP	
12		6.2380	26.75	10.35	37.10	50.00	-12.90	AVG	

*:Maximum data x:Over limit !:over margin

Engineer Signature: Ryan

Conducted Emission Measurement

File :2505R50271E-RFA1 Data :#1 Date: 2025/4/17 Time: 09:08:32



Limit: QP
Mode: Transmitting
Note: 802.11g 2412

Phase: N
Power: AC 240V/60Hz

Temperature: 24.9 ℃
Humidity: 65 %
Air Pressure: 1010 hpa

Receiver Setting:
9~150kHz(if apply): Pre-scan: RBW: 200Hz, DET: PK/AV; Final measure: RBW: 200Hz, DET: QP/AV
0.15~30MHz: Pre-scan: RBW: 9kHz, DET: PK/AV; Final measure: RBW: 9kHz, DET: QP/AV

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over Limit		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.3980	38.80	10.51	49.31	57.90	-8.59	QP	
2		0.3980	33.12	10.51	43.63	47.90	-4.27	AVG	
3		0.4220	40.53	10.53	51.06	57.41	-6.35	QP	
4	*	0.4220	34.92	10.53	45.45	47.41	-1.96	AVG	
5		0.7340	33.54	10.49	44.03	56.00	-11.97	QP	
6		0.7340	25.09	10.49	35.58	46.00	-10.42	AVG	
7		2.1340	31.74	10.66	42.40	56.00	-13.60	QP	
8		2.1340	24.48	10.66	35.14	46.00	-10.86	AVG	
9		5.3540	31.32	10.37	41.69	60.00	-18.31	QP	
10		5.3540	20.12	10.37	30.49	50.00	-19.51	AVG	
11		6.0540	32.70	10.37	43.07	60.00	-16.93	QP	
12		6.0540	24.03	10.37	34.40	50.00	-15.60	AVG	

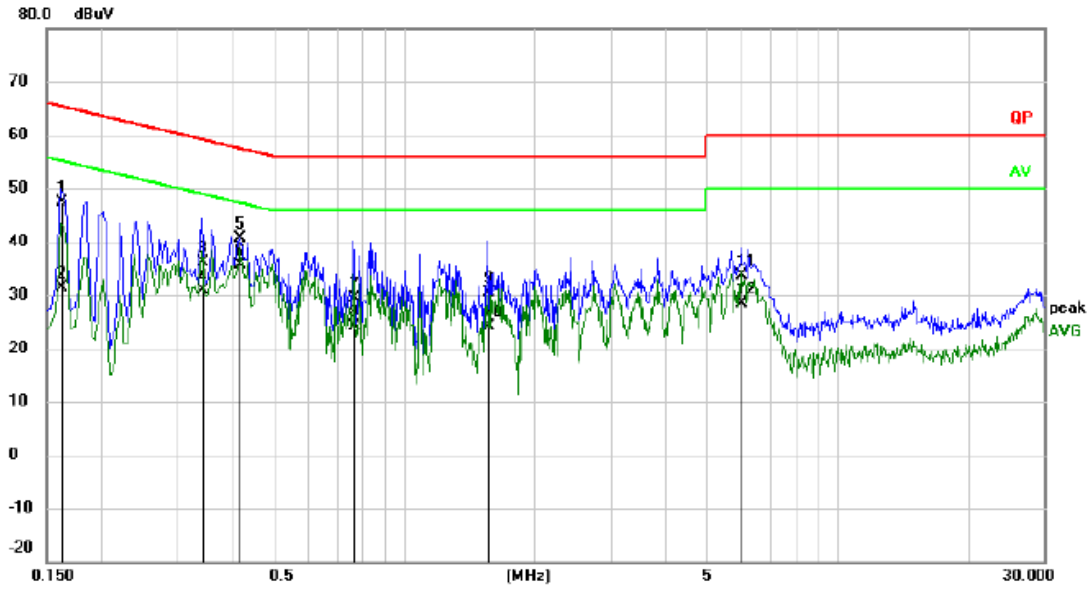
*:Maximum data x:Over limit !:over margin

Engineer Signature: Ryan

Model: PTW03

Conducted Emission Measurement

File :2505R50271E-RFA1 Data :#5 Date: 2025/4/17 Time: 9:44:55



Limit: QP
Mode: Transmitting
Note: 802.11g 2412

Phase: L1
Power: AC 120V/60Hz

Temperature: 24.9 ℃
Humidity: 65 %
Air Pressure: 1010 hpa

Receiver Setting:
9~150kHz(if apply): Pre-scan: RBW: 200Hz, DET: PK/AV; Final measure: RBW: 200Hz, DET: QP/AV
0.15~30MHz: Pre-scan: RBW: 9kHz, DET: PK/AV; Final measure: RBW: 9kHz, DET: QP/AV

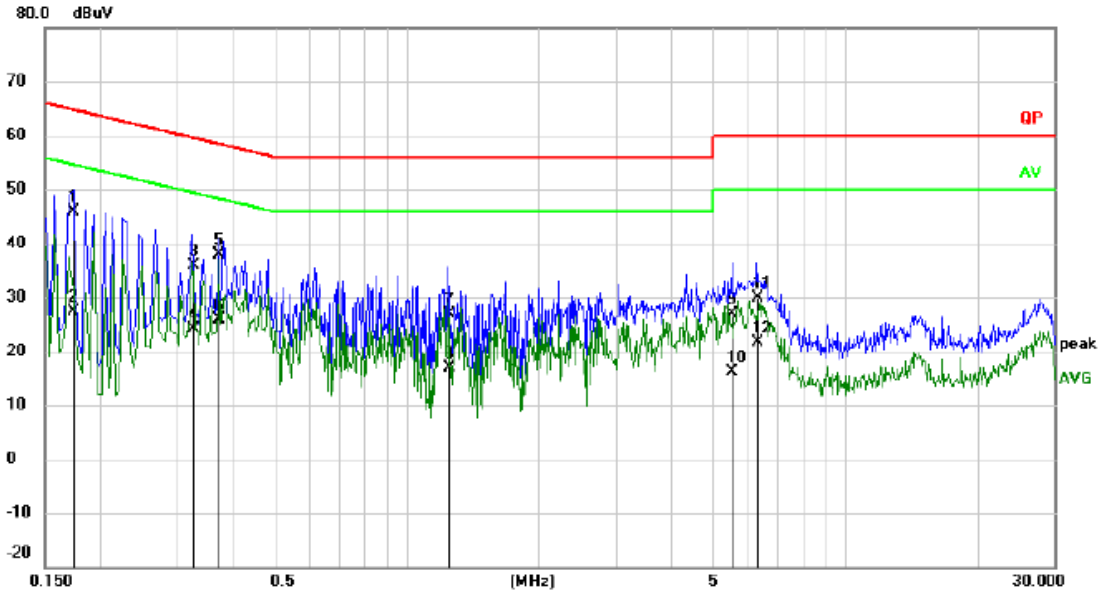
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over Limit		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1620	36.83	10.43	47.26	65.36	-18.10	QP	
2		0.1620	20.96	10.43	31.39	55.36	-23.97	AVG	
3		0.3420	25.73	10.48	36.21	59.15	-22.94	QP	
4		0.3420	20.45	10.48	30.93	49.15	-18.22	AVG	
5		0.4180	30.20	10.53	40.73	57.49	-16.76	QP	
6	*	0.4180	25.20	10.53	35.73	47.49	-11.76	AVG	
7		0.7660	18.80	10.60	29.40	56.00	-26.60	QP	
8		0.7660	13.63	10.60	24.23	46.00	-21.77	AVG	
9		1.5620	19.74	10.73	30.47	56.00	-25.53	QP	
10		1.5620	13.45	10.73	24.18	46.00	-21.82	AVG	
11		6.0220	23.27	10.37	33.64	60.00	-26.36	QP	
12		6.0220	17.99	10.37	28.36	50.00	-21.64	AVG	

*:Maximum data x:Over limit !:over margin

Engineer Signature: Ryan

Conducted Emission Measurement

File :2505R50271E-RFA1 Data :#6 Date: 2025/4/17 Time: 9:46:21



Limit: QP
Mode: Transmitting
Note: 802.11g 2412

Phase: N
Power: AC 120V/60Hz

Temperature: 24.9 ℃
Humidity: 65 %
Air Pressure: 1010 hpa

Receiver Setting:
9~150kHz(if apply): Pre-scan: RBW: 200Hz, DET: PK/AV; Final measure: RBW: 200Hz, DET: QP/AV
0.15~30MHz: Pre-scan: RBW: 9kHz, DET: PK/AV; Final measure: RBW: 9kHz, DET: QP/AV

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over Limit		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1740	35.58	10.30	45.88	64.77	-18.89	QP	
2		0.1740	16.96	10.30	27.26	54.77	-27.51	AVG	
3		0.3260	25.29	10.47	35.76	59.55	-23.79	QP	
4		0.3260	13.69	10.47	24.16	49.55	-25.39	AVG	
5		0.3740	27.44	10.50	37.94	58.41	-20.47	QP	
6		0.3740	15.29	10.50	25.79	48.41	-22.62	AVG	
7		1.2460	16.42	10.58	27.00	56.00	-29.00	QP	
8		1.2460	6.29	10.58	16.87	46.00	-29.13	AVG	
9		5.5100	16.42	10.37	26.79	60.00	-33.21	QP	
10		5.5100	5.69	10.37	16.06	50.00	-33.94	AVG	
11		6.3020	19.51	10.37	29.88	60.00	-30.12	QP	
12		6.3020	11.31	10.37	21.68	50.00	-28.32	AVG	

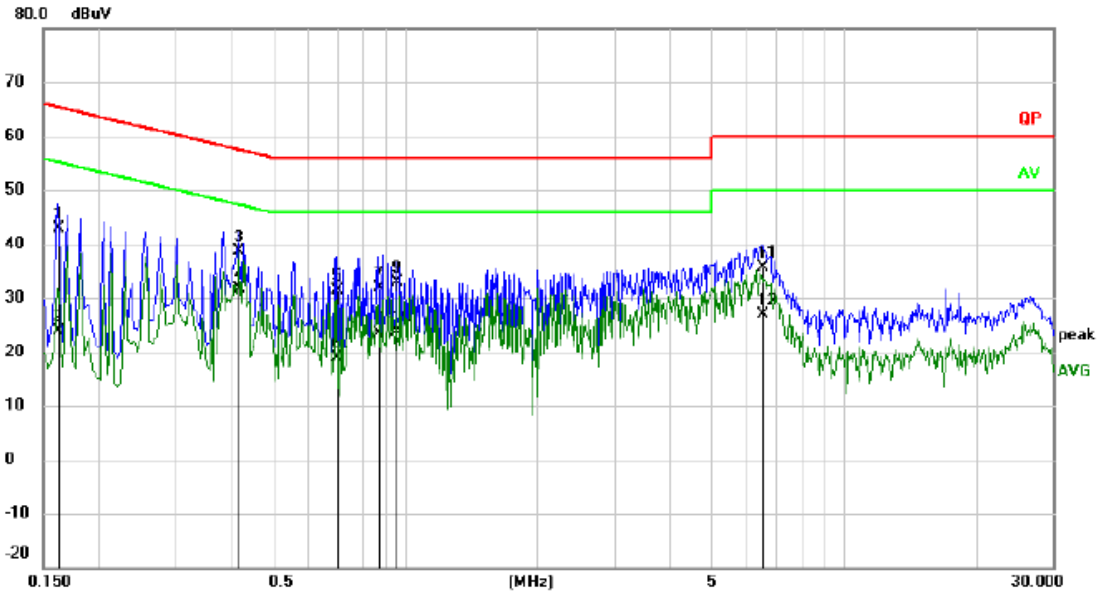
*:Maximum data x:Over limit !:over margin

Engineer Signature: Ryan

Model: PTW04

Conducted Emission Measurement

File :2505R50271E-RFA1 Data :#9 Date: 2025/4/17 Time: 10:02:21



Limit: QP
Mode: Transmitting
Note: 802.11g 2412

Phase: L1
Power: AC 240V/60Hz

Temperature: 24.9 ℃
Humidity: 65 %
Air Pressure: 1010 hpa

Receiver Setting:
9~150kHz(if apply): Pre-scan: RBW: 200Hz, DET: PK/AV; Final measure: RBW: 200Hz, DET: QP/AV
0.15~30MHz: Pre-scan: RBW: 9kHz, DET: PK/AV; Final measure: RBW: 9kHz, DET: QP/AV

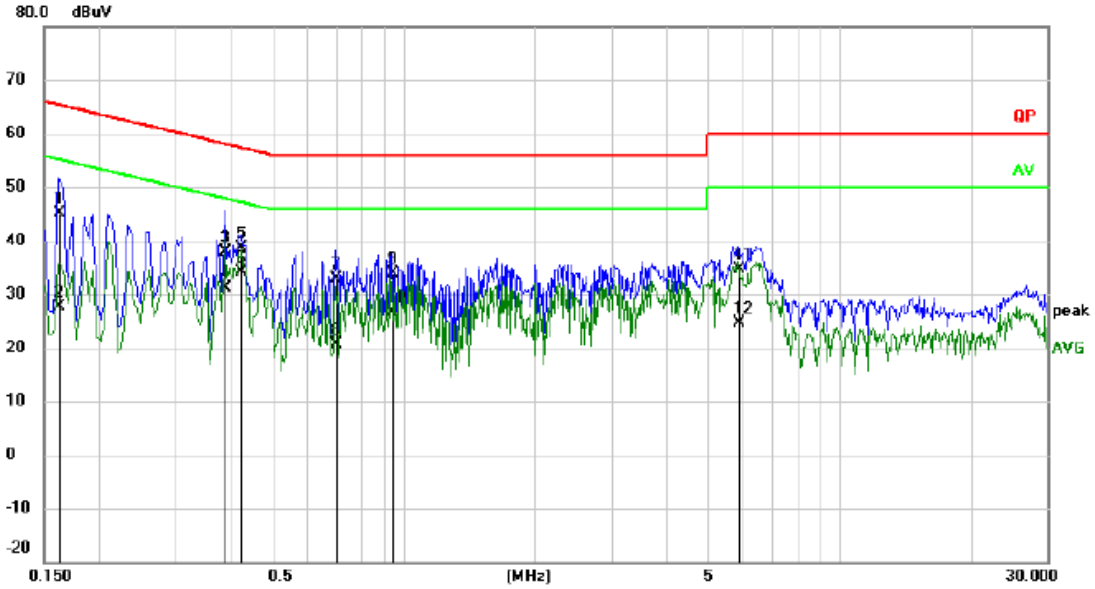
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over Limit		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1620	32.53	10.43	42.96	65.36	-22.40	QP	
2		0.1620	13.40	10.43	23.83	55.36	-31.53	AVG	
3		0.4180	28.11	10.53	38.64	57.49	-18.85	QP	
4	*	0.4180	20.98	10.53	31.51	47.49	-15.98	AVG	
5		0.6980	20.81	10.57	31.38	56.00	-24.62	QP	
6		0.6980	8.24	10.57	18.81	46.00	-27.19	AVG	
7		0.8700	21.30	10.64	31.94	56.00	-24.06	QP	
8		0.8700	12.82	10.64	23.46	46.00	-22.54	AVG	
9		0.9540	22.15	10.65	32.80	56.00	-23.20	QP	
10		0.9540	13.03	10.65	23.68	46.00	-22.32	AVG	
11		6.5220	25.39	10.32	35.71	60.00	-24.29	QP	
12		6.5220	16.51	10.32	26.83	50.00	-23.17	AVG	

*:Maximum data x:Over limit !:over margin

Engineer Signature: Ryan

Conducted Emission Measurement

File :2505R50271E-RFA1 Data :#10 Date: 2025/4/17 Time: 10:03:58



Limit: QP
Mode: Transmitting
Note: 802.11g 2412

Phase: N
Power: AC 240V/60Hz

Temperature: 24.9 ℃
Humidity: 65 %
Air Pressure: 1010 hpa

Receiver Setting:
9~150kHz(if apply): Pre-scan: RBW: 200Hz, DET: PK/AV; Final measure: RBW: 200Hz, DET: QP/AV
0.15~30MHz: Pre-scan: RBW: 9kHz, DET: PK/AV; Final measure: RBW: 9kHz, DET: QP/AV

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over Limit		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1620	34.79	10.27	45.06	65.36	-20.30	QP	
2		0.1620	17.43	10.27	27.70	55.36	-27.66	AVG	
3		0.3899	27.28	10.51	37.79	58.07	-20.28	QP	
4		0.3899	20.60	10.51	31.11	48.07	-16.96	AVG	
5		0.4220	28.12	10.53	38.65	57.41	-18.76	QP	
6	*	0.4220	23.52	10.53	34.05	47.41	-13.36	AVG	
7		0.6980	22.47	10.47	32.94	56.00	-23.06	QP	
8		0.6980	10.11	10.47	20.58	46.00	-25.42	AVG	
9		0.9420	23.44	10.55	33.99	56.00	-22.01	QP	
10		0.9420	16.10	10.55	26.65	46.00	-19.35	AVG	
11		5.8500	24.28	10.37	34.65	60.00	-25.35	QP	
12		5.8500	14.17	10.37	24.54	50.00	-25.46	AVG	

*:Maximum data x:Over limit !:over margin

Engineer Signature: Ryan

Remark:

Measurement (dBuV)= Reading Level (dBuV) + Correct Factor(dB)

Correct Factor (dB)= LISN Voltage Division Factor (dB)+ Cable loss(dB)

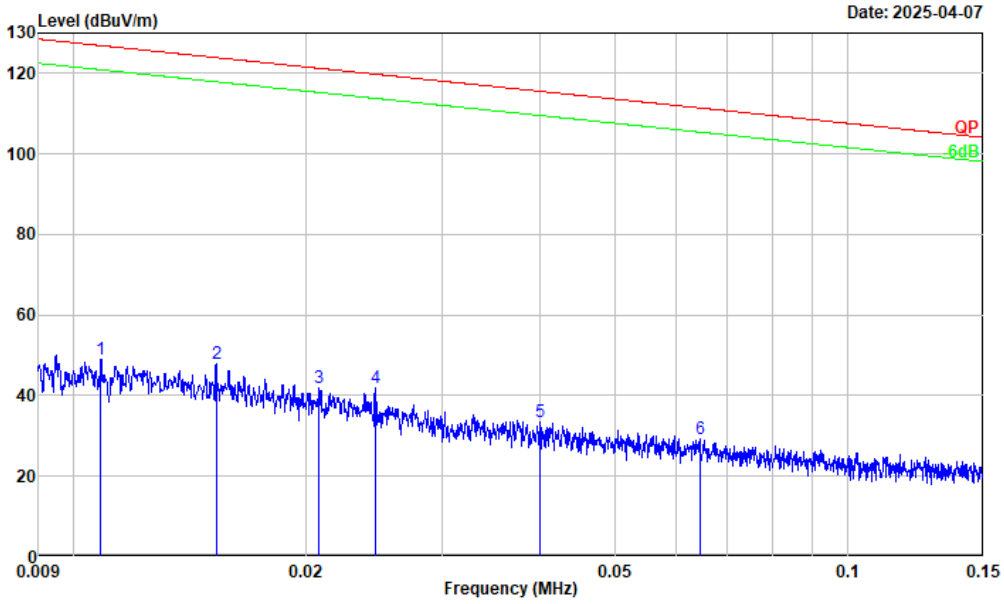
Over Limit = Measurement – Limit

3.4 Radiated emission Test Data

9 kHz-30MHz:

Test Date:	2025-04-07	**Test By:**	Luke Li
Environment condition:	Temperature: 24.2°C; Relative Humidity:57%; ATM Pressure: 101.1kPa		

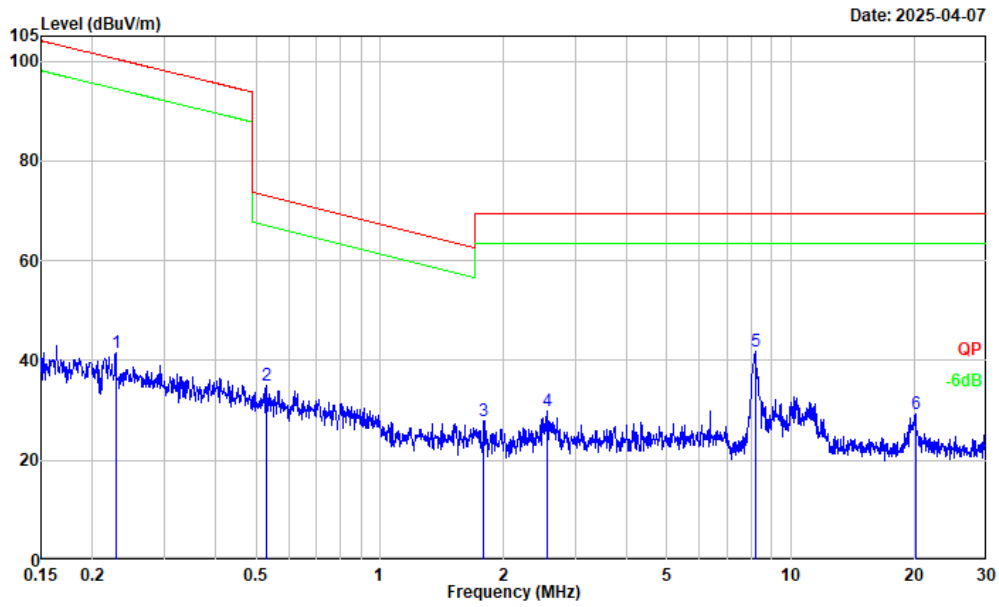
Model: PTW02



Project No. : 2505R50271E-RFA1
Test Mode : Transmitting
Test Voltage : AC 240V/60Hz
Environment : 24.2℃/57%R.H./101.1kPa
Tested by : Luke Li
Polarization : PARALLEL
Remark : 802.11g 2412

--No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	0.011	12.24	36.75	48.99	126.89	-77.90	Peak
2	0.015	13.81	33.93	47.74	123.91	-76.17	Peak
3	0.021	11.44	30.45	41.89	121.25	-79.36	Peak
4	0.025	13.73	28.07	41.80	119.81	-78.01	Peak
5	0.040	11.04	22.54	33.58	115.54	-81.96	Peak
6	0.064	10.77	18.52	29.29	111.43	-82.14	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain
Result = Reading + Factor
Over Limit = Result - Limit
SA setting: RBW/VBW: 200Hz/1kHz, DET: PK

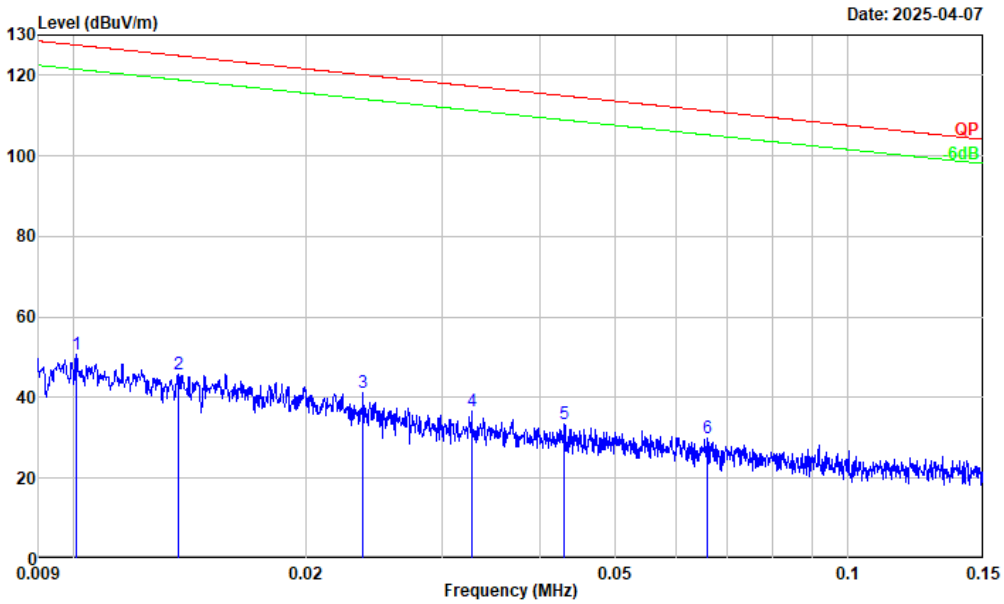


Project No. : 2505R50271E-RFA1
Test Mode : Transmitting
Test Voltage : AC 240V/60Hz
Environment : 24.2℃/57%R.H./101.1kPa
Tested by : Luke Li
Polarization : PARALLEL
Remark : 802.11g 2412

--No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Detector
1	0.228	30.10	11.47	41.57	100.45	-58.88	Peak
2	0.531	29.76	5.35	35.11	73.09	-37.98	Peak
3	1.795	29.82	-1.85	27.97	69.54	-41.57	Peak
4	2.560	32.80	-2.82	29.98	69.54	-39.56	Peak
5	8.192	45.64	-3.80	41.84	69.54	-27.70	Peak
6	20.109	32.28	-3.09	29.19	69.54	-40.35	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain
Result = Reading + Factor
Over Limit = Result - Limit
SA setting: RBW/VBW: 9kHz/30kHz, DET: PK

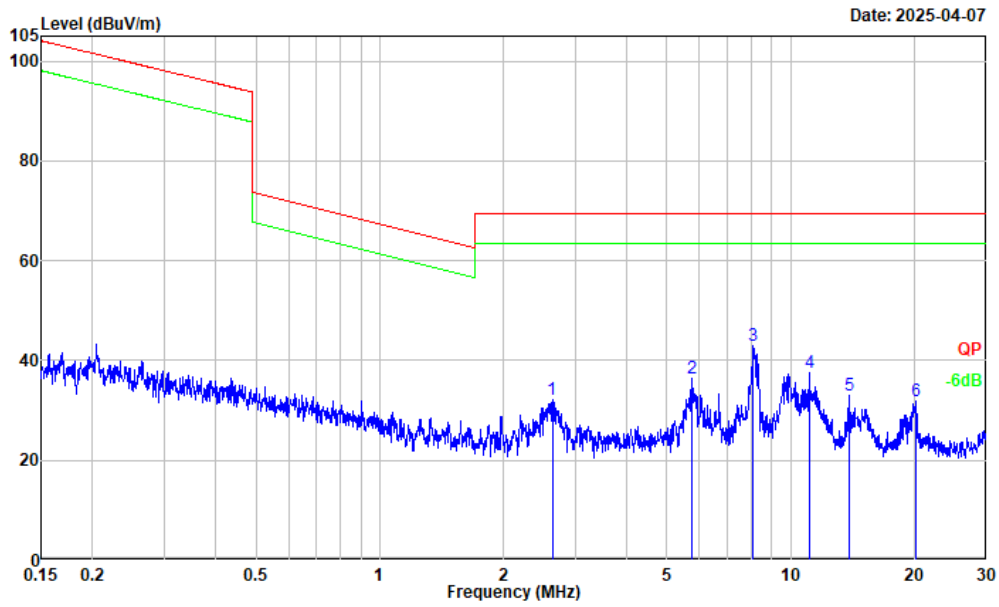
Model: PTW03



Project No. : 2505R50271E-RFA1
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 24.2℃/57%R.H./101.1kPa
Tested by : Luke Li
Polarization : PARALLEL
Remark : 802.11g 2412

--No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Detector
1	0.010	13.53	37.23	50.76	127.53	-76.77	Peak
2	0.014	11.00	34.96	45.96	124.89	-78.93	Peak
3	0.024	12.49	28.62	41.11	120.12	-79.01	Peak
4	0.033	12.63	24.04	36.67	117.31	-80.64	Peak
5	0.043	11.71	21.92	33.63	114.91	-81.28	Peak
6	0.066	11.82	18.30	30.12	111.21	-81.09	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain
Result = Reading + Factor
Over Limit = Result - Limit
SA setting: RBW/VBW: 200Hz/1kHz, DET: PK

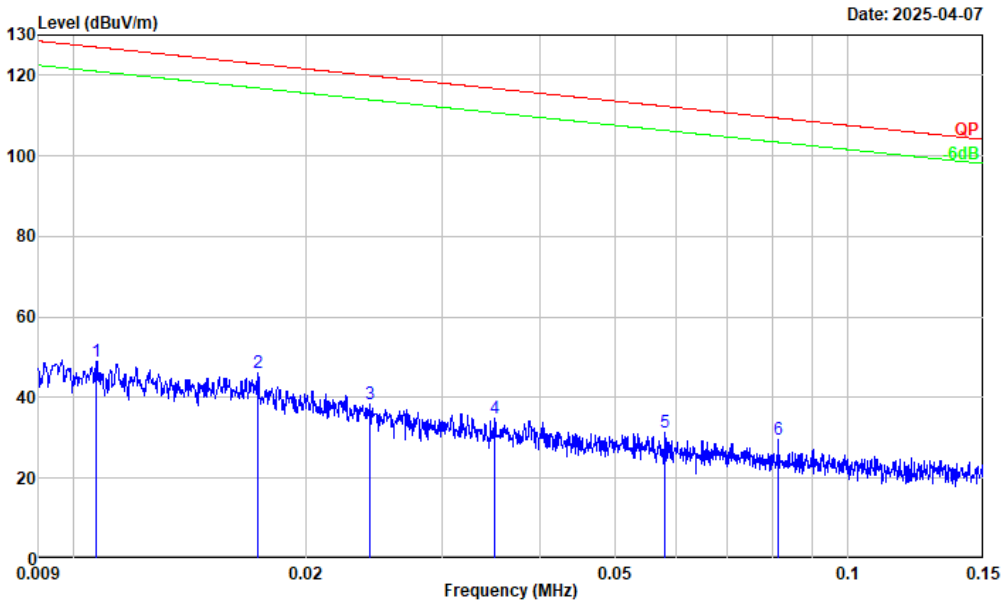


Project No. : 2505R50271E-RFA1
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 24.2℃/57%R.H./101.1kPa
Tested by : Luke Li
Polarization : PARALLEL
Remark : 802.11g 2412

--No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Detector
1	2.629	34.91	-2.87	32.04	69.54	-37.50	Peak
2	5.729	40.54	-4.03	36.51	69.54	-33.03	Peak
3	8.105	46.84	-3.82	43.02	69.54	-26.52	Peak
4	11.080	40.94	-3.34	37.60	69.54	-31.94	Peak
5	13.915	36.48	-3.53	32.95	69.54	-36.59	Peak
6	20.162	34.91	-3.10	31.81	69.54	-37.73	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain
Result = Reading + Factor
Over Limit = Result - Limit
SA setting: Pre-scan: RBW/VBW: 100kHz/300kHz, DET: PK
Final measure: RBW: 120kHz, DET: QP

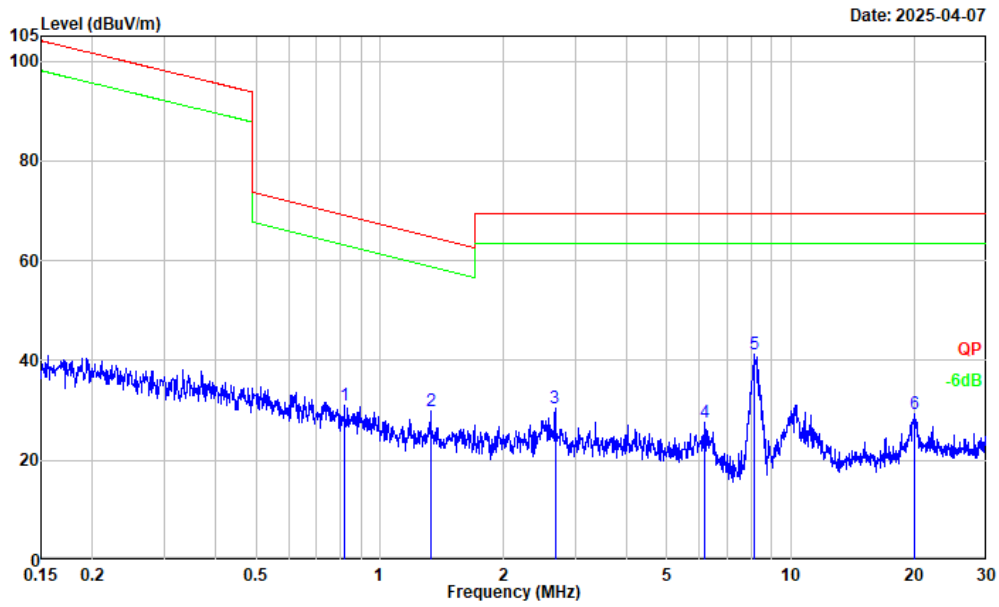
Model: PTW04



Project No. : 2505R50271E-RFA1
Test Mode : Transmitting
Test Voltage : AC 240V/60Hz
Environment : 24.2℃/57%R.H./101.1kPa
Tested by : Luke Li
Polarization : PARALLEL
Remark : 802.11g 2412

--No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Detector
1	0.011	12.26	36.84	49.10	127.00	-77.90	Peak
2	0.017	13.46	32.65	46.11	122.84	-76.73	Peak
3	0.024	10.24	28.31	38.55	119.94	-81.39	Peak
4	0.035	11.20	23.56	34.76	116.70	-81.94	Peak
5	0.058	11.91	19.39	31.30	112.32	-81.02	Peak
6	0.081	13.14	16.28	29.42	109.39	-79.97	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain
Result = Reading + Factor
Over Limit = Result - Limit
SA setting: RBW/VBW: 200Hz/1kHz, DET: PK



Project No. : 2505R50271E-RFA1
Test Mode : Transmitting
Test Voltage : AC 240V/60Hz
Environment : 24.2℃/57%R.H./101.1kPa
Tested by : Luke Li
Polarization : PARALLEL
Remark : 802.11g 2412

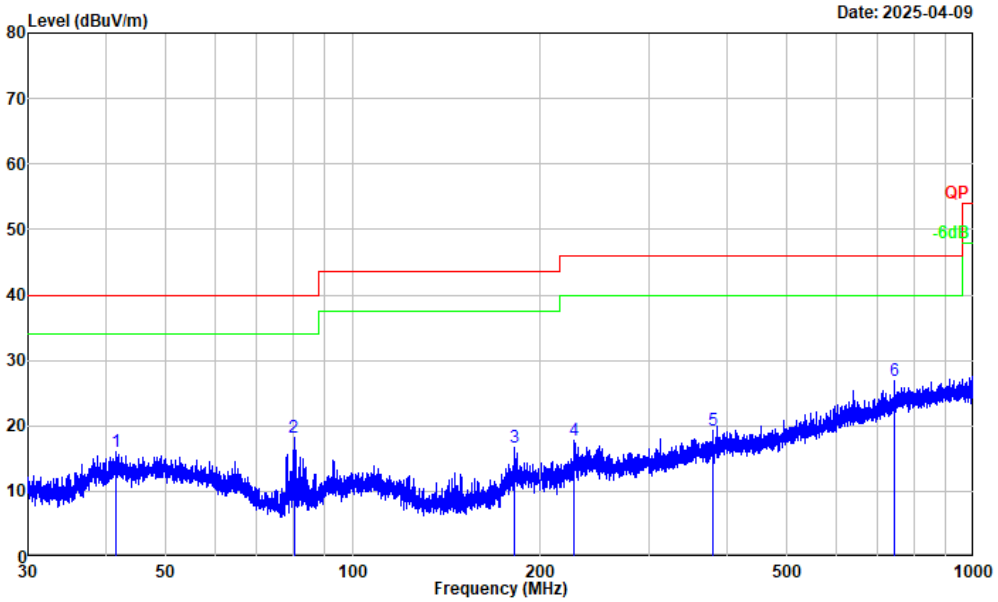
--No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Detector
1	0.822	28.81	2.29	31.10	69.21	-38.11	Peak
2	1.334	30.36	-0.47	29.89	64.91	-35.02	Peak
3	2.671	33.33	-2.90	30.43	69.54	-39.11	Peak
4	6.170	31.62	-4.04	27.58	69.54	-41.96	Peak
5	8.127	45.17	-3.81	41.36	69.54	-28.18	Peak
6	20.003	32.35	-3.08	29.27	69.54	-40.27	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain
Result = Reading + Factor
Over Limit = Result - Limit
SA setting: RBW/VBW: 9kHz/30kHz, DET: PK

30MHz-1GHz:

Test Date:	2025-04-07~2025-04-09	**Test By:**	Luke Li
Environment condition:	Temperature: 24.1~24.2°C; Relative Humidity:57~62%; ATM Pressure: 101.1~100.7kPa		

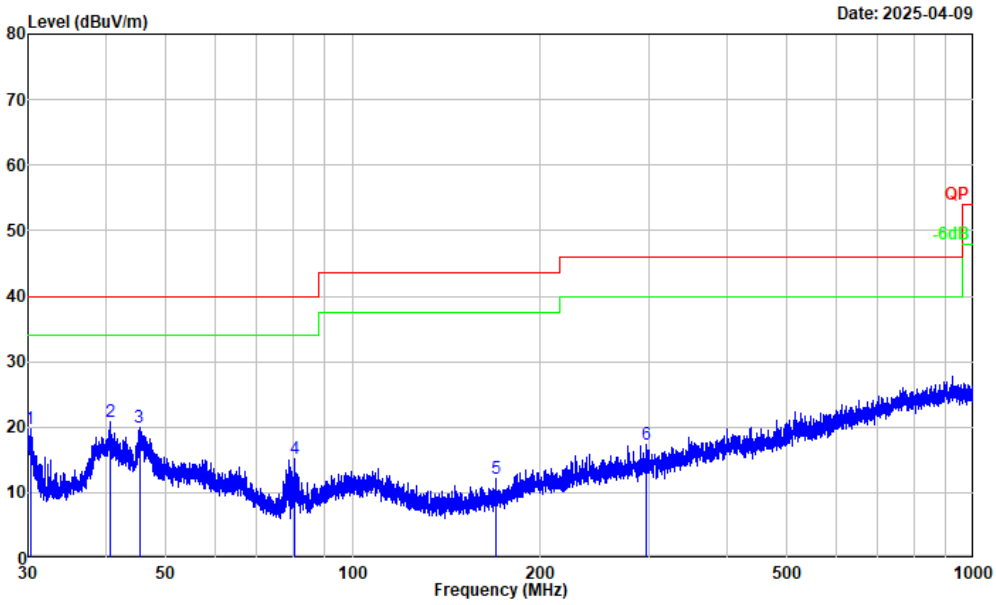
Model: PTW02



Project No. : 2505R50271E-RFA1
Test Mode : Transmitting
Test Voltage : AC 240V/60Hz
Environment : 24.1℃/62%R.H./100.7kPa
Tested by : Luke Li
Polarization : horizontal
Remark : 802.11g 2412

--No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Detector
1	41.549	28.59	-12.54	16.05	40.00	-23.95	Peak
2	80.397	36.05	-17.94	18.11	40.00	-21.89	Peak
3	181.920	32.04	-15.40	16.64	43.50	-26.86	Peak
4	227.591	30.80	-13.08	17.72	46.00	-28.28	Peak
5	379.581	28.42	-9.19	19.23	46.00	-26.77	Peak
6	746.173	29.71	-2.79	26.92	46.00	-19.08	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain
Result = Reading + Factor
Over Limit = Result - Limit
SA setting: Pre-scan: RBW/VBW: 100kHz/300kHz, DET: PK
Final measure: RBW: 120kHz, DET: QP

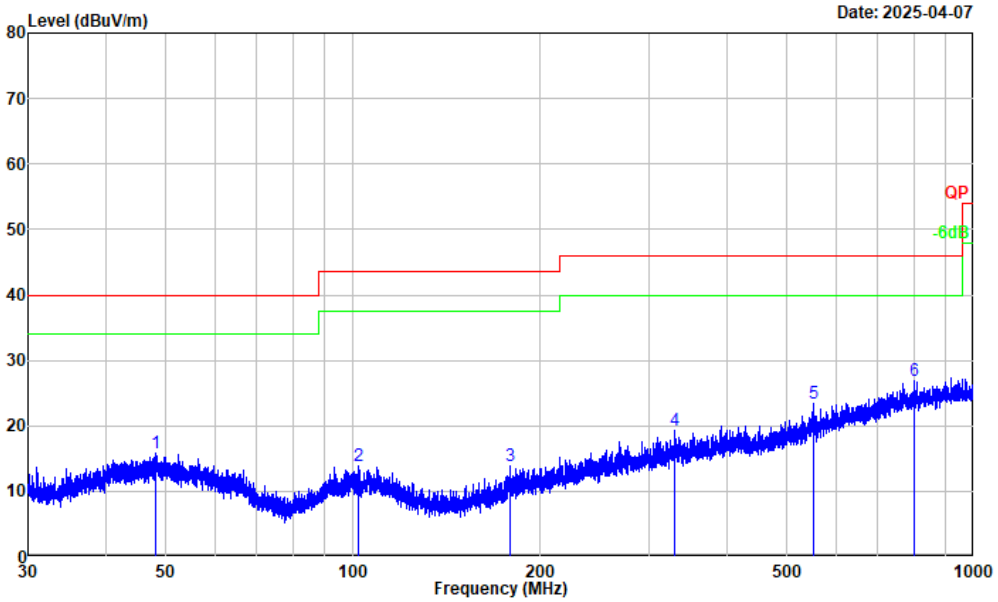


Project No. : 2505R50271E-RFA1
Test Mode : Transmitting
Test Voltage : AC 240V/60Hz
Environment : 24.1℃/62%R.H./100.7kPa
Tested by : Luke Li
Polarization : vertical
Remark : 802.11g 2412

--No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Detector
1	30.238	34.79	-14.97	19.82	40.00	-20.18	Peak
2	40.613	33.62	-12.83	20.79	40.00	-19.21	Peak
3	45.336	32.10	-12.09	20.01	40.00	-19.99	Peak
4	80.432	33.11	-17.94	15.17	40.00	-24.83	Peak
5	170.419	28.41	-16.23	12.18	43.50	-31.32	Peak
6	297.354	28.76	-11.34	17.42	46.00	-28.58	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain
Result = Reading + Factor
Over Limit = Result - Limit
SA setting: Pre-scan: RBW/VBW: 100kHz/300kHz, DET: PK
Final measure: RBW: 120kHz, DET: QP

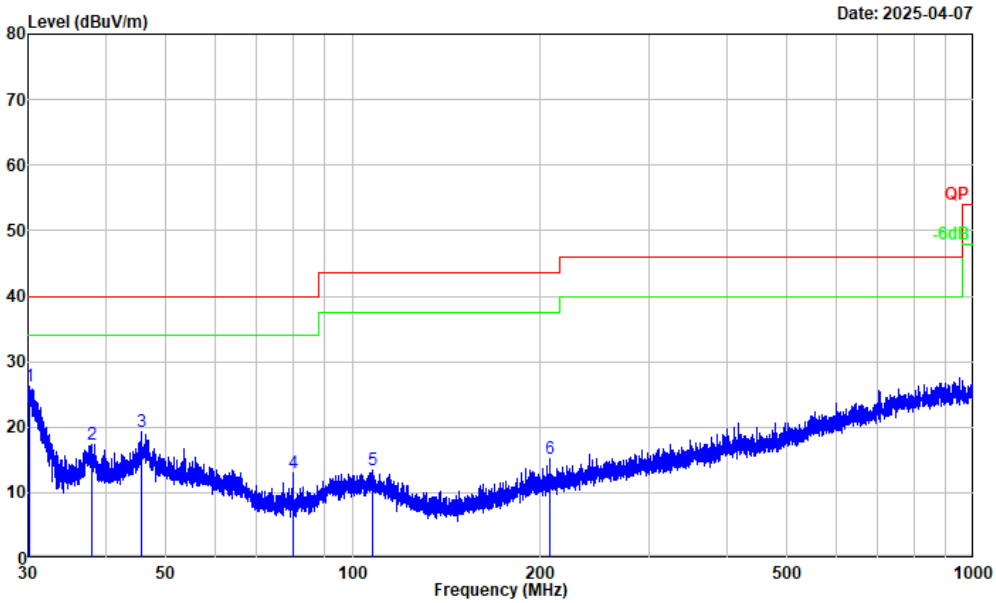
Model: PTW03



Project No. : 2505R50271E-RFA1
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 24.2℃/57%R.H./101.1kPa
Tested by : Luke Li
Polarization : horizontal
Remark : 802.11g 2412

--No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Detector
1	48.268	27.80	-12.08	15.72	40.00	-24.28	Peak
2	101.912	27.81	-13.94	13.87	43.50	-29.63	Peak
3	178.915	29.48	-15.61	13.87	43.50	-29.63	Peak
4	330.629	29.59	-10.35	19.24	46.00	-26.76	Peak
5	552.157	29.90	-6.39	23.51	46.00	-22.49	Peak
6	800.031	29.12	-2.29	26.83	46.00	-19.17	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain
Result = Reading + Factor
Over Limit = Result - Limit
SA setting: Pre-scan: RBW/VBW: 100kHz/300kHz, DET: PK
Final measure: RBW: 120kHz, DET: QP

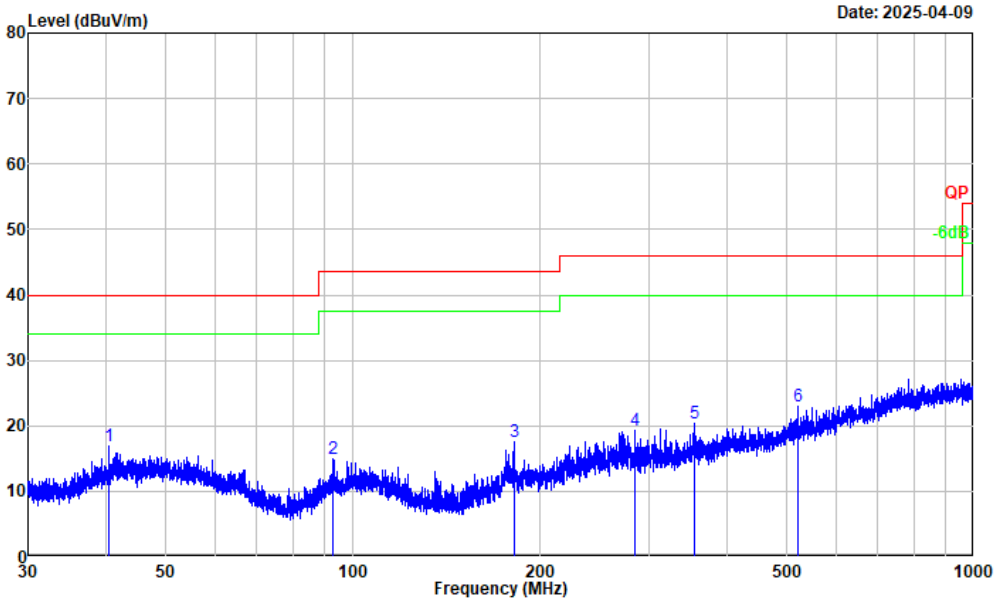


Project No. : 2505R50271E-RFA1
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 24.2℃/57%R.H./101.1kPa
Tested by : Luke Li
Polarization : vertical
Remark : 802.11g 2412

--No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Detector
1	30.185	41.14	-14.96	26.18	40.00	-13.82	Peak
2	38.028	30.85	-13.52	17.33	40.00	-22.67	Peak
3	45.615	31.33	-12.09	19.24	40.00	-20.76	Peak
4	80.046	31.06	-17.98	13.08	40.00	-26.92	Peak
5	107.557	27.29	-13.90	13.39	43.50	-30.11	Peak
6	207.850	29.06	-13.78	15.28	43.50	-28.22	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain
Result = Reading + Factor
Over Limit = Result - Limit
SA setting: Pre-scan: RBW/VBW: 100kHz/300kHz, DET: PK
Final measure: RBW: 120kHz, DET: QP

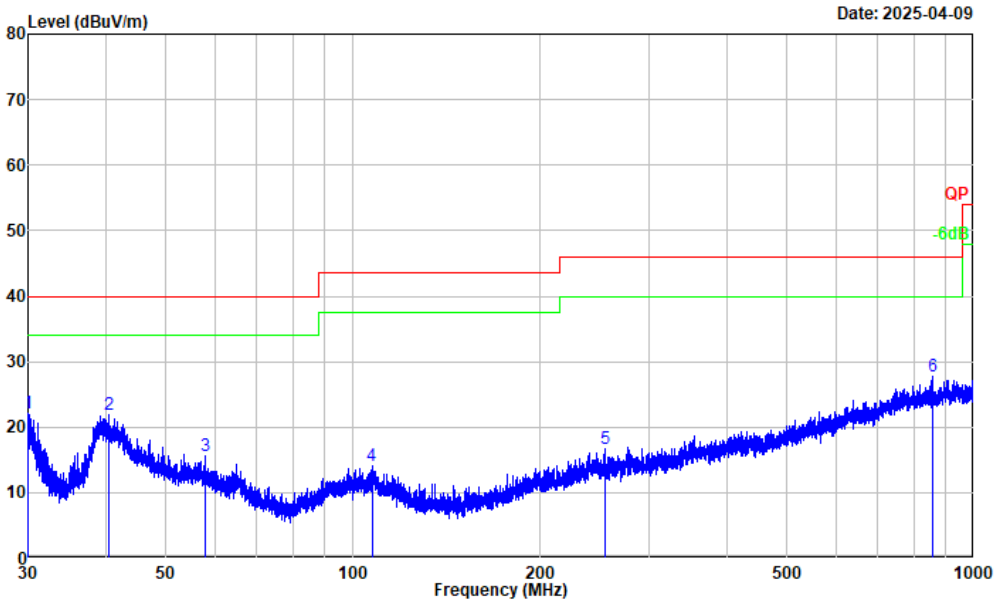
Model: PTW04



Project No. : 2505R50271E-RFA1
Test Mode : Transmitting
Test Voltage : AC 240V/60Hz
Environment : 24.1℃/62%R.H./100.7kPa
Tested by : Luke Li
Polarization : horizontal
Remark : 802.11g 2412

--No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Detector
1	40.559	29.85	-12.84	17.01	40.00	-22.99	Peak
2	93.113	29.89	-14.96	14.93	43.50	-28.57	Peak
3	182.080	33.02	-15.38	17.64	43.50	-25.86	Peak
4	284.478	30.87	-11.62	19.25	46.00	-26.75	Peak
5	354.805	30.06	-9.57	20.49	46.00	-25.51	Peak
6	520.204	29.84	-6.90	22.94	46.00	-23.06	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain
Result = Reading + Factor
Over Limit = Result - Limit
SA setting: Pre-scan: RBW/VBW: 100kHz/300kHz, DET: PK
Final measure: RBW: 120kHz, DET: QP



Project No. : 2505R50271E-RFA1
Test Mode : Transmitting
Test Voltage : AC 240V/60Hz
Environment : 24.1℃/62%R.H./100.7kPa
Tested by : Luke Li
Polarization : vertical
Remark : 802.11g 2412

--No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Detector
1	30.053	36.97	-14.92	22.05	40.00	-17.95	Peak
2	40.417	34.71	-12.88	21.83	40.00	-18.17	Peak
3	57.923	28.85	-13.27	15.58	40.00	-24.42	Peak
4	107.369	27.94	-13.90	14.04	43.50	-29.46	Peak
5	254.394	28.98	-12.27	16.71	46.00	-29.29	Peak
6	856.649	29.75	-2.03	27.72	46.00	-18.28	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain
Result = Reading + Factor
Over Limit = Result - Limit
SA setting: Pre-scan: RBW/VBW: 100kHz/300kHz, DET: PK
Final measure: RBW: 120kHz, DET: QP

Above 1GHz:

Test Date:	2025-04-07	Test By:	Bard Huang
Environment condition:	Temperature:24.2 °C; Relative Humidity:57%; ATM Pressure:101.1kPa		

Model: PTW03

Frequency (MHz)	Reading level (dBμV)	Polar	Corrected Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
802.11b							
Low Channel							
4824.000	46.96	horizontal	-2.29	44.67	74.00	-29.33	Peak
4824.000	46.88	vertical	-2.29	44.59	74.00	-29.41	Peak
Middle Channel							
4874.000	47.28	horizontal	-1.92	45.36	74.00	-28.64	Peak
4874.000	46.95	vertical	-1.92	45.03	74.00	-28.97	Peak
High Channel							
4924.000	46.76	horizontal	-1.70	45.06	74.00	-28.94	Peak
4924.000	47.75	vertical	-1.70	46.05	74.00	-27.95	Peak
802.11g							
Low Channel							
4824.000	47.14	horizontal	-2.29	44.85	74.00	-29.15	Peak
4824.000	46.96	vertical	-2.29	44.67	74.00	-29.33	Peak
Middle Channel							
4874.000	47.36	horizontal	-1.92	45.44	74.00	-28.56	Peak
4874.000	47.52	vertical	-1.92	45.60	74.00	-28.40	Peak
High Channel							
4924.000	47.38	horizontal	-1.70	45.68	74.00	-28.32	Peak
4924.000	47.14	vertical	-1.70	45.44	74.00	-28.56	Peak
802.11n20							
Low Channel							
4824.000	48.03	horizontal	-2.29	45.74	74.00	-28.26	Peak
4824.000	46.91	vertical	-2.29	44.62	74.00	-29.38	Peak
Middle Channel							
4874.000	48.07	horizontal	-1.92	46.15	74.00	-27.85	Peak
4874.000	47.79	vertical	-1.92	45.87	74.00	-28.13	Peak
High Channel							
4924.000	47.47	horizontal	-1.70	45.77	74.00	-28.23	Peak
4924.000	47.14	vertical	-1.70	45.44	74.00	-28.56	Peak
802.11n40							

Low Channel							
4844.000	47.27	horizontal	-2.17	45.10	74.00	-28.90	Peak
4844.000	48.44	vertical	-2.17	46.27	74.00	-27.73	Peak
Middle Channel							
4874.000	47.60	horizontal	-1.92	45.68	74.00	-28.32	Peak
4874.000	47.31	vertical	-1.92	45.39	74.00	-28.61	Peak
High Channel							
4904.000	47.35	horizontal	-1.71	45.64	74.00	-28.36	Peak
4904.000	47.09	vertical	-1.71	45.38	74.00	-28.62	Peak

Remark:

Corrected Amplitude= Reading level + corrected Factor

Corrected Factor = Antenna factor + Cable loss – Amplifier gain

Margin = Corrected Amplitude – Limit

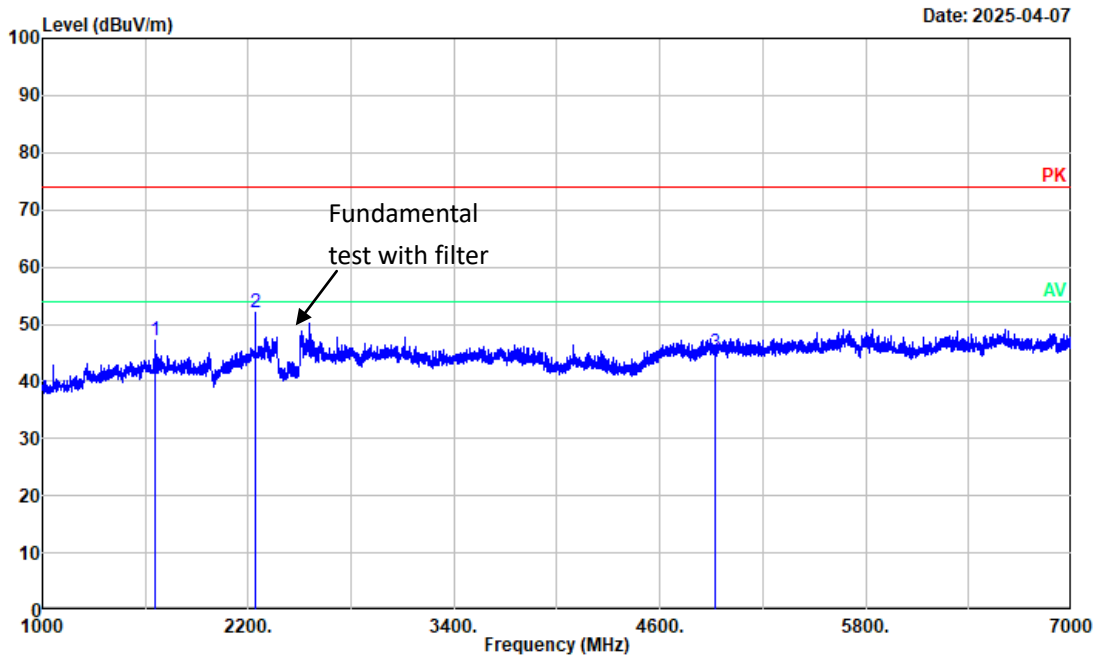
For the test result of Peak below the Peak limit more than 20dB, which can compliance with the average limit, just the Peak level was recorded.

The emission levels of other frequencies that were lower than the limit 20dB not show in test report.

For emissions in 18GHz-25GHz range, all emissions were investigated and in the noise floor level.

Test plot for example as below:

Mode:	802.11b	Channel:	2462MHz

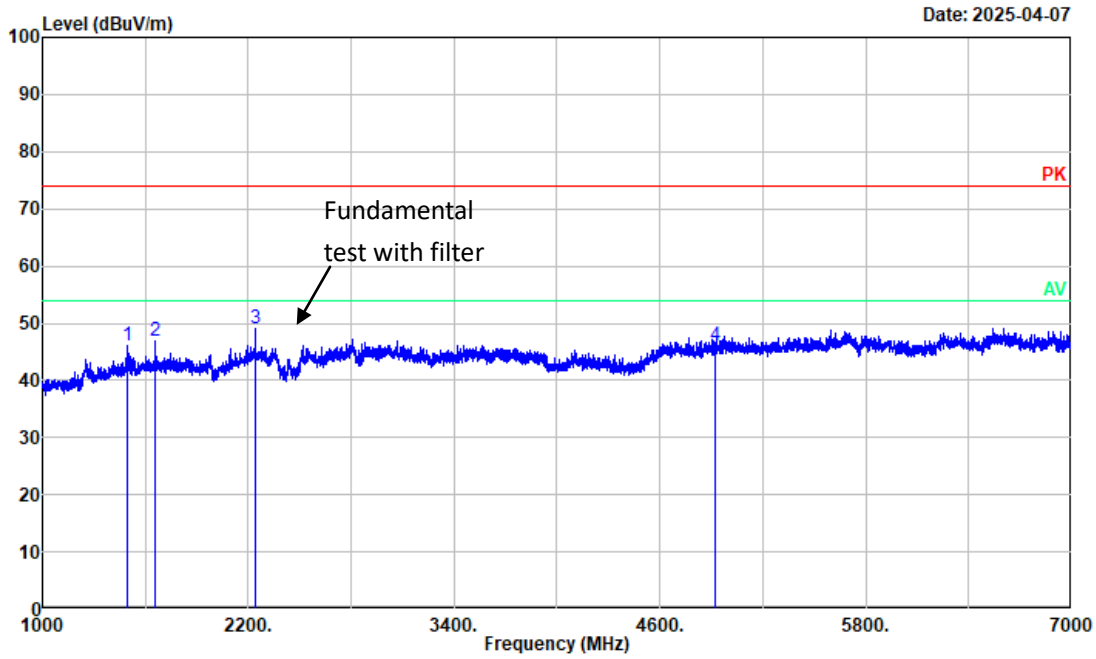


Project No. : 2505R50271E-RFA1
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 24.2℃/57%R.H./101.1kPa
Tested by : Barg Huang
Polarization : horizontal
Remark : 802.11b 2462

--No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Detector
1	1661.000	51.03	-3.80	47.23	74.00	-26.77	Peak
2	2239.000	55.23	-3.13	52.10	74.00	-21.90	Peak
3	4924.000	46.76	-1.70	45.06	74.00	-28.94	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain
Result = Reading + Factor
Over Limit = Result - Limit
SA setting: Peak: RBW/VBW: 1MHz/3MHz, DET: PK

Mode:	802.11b	Channel:	2462MHz

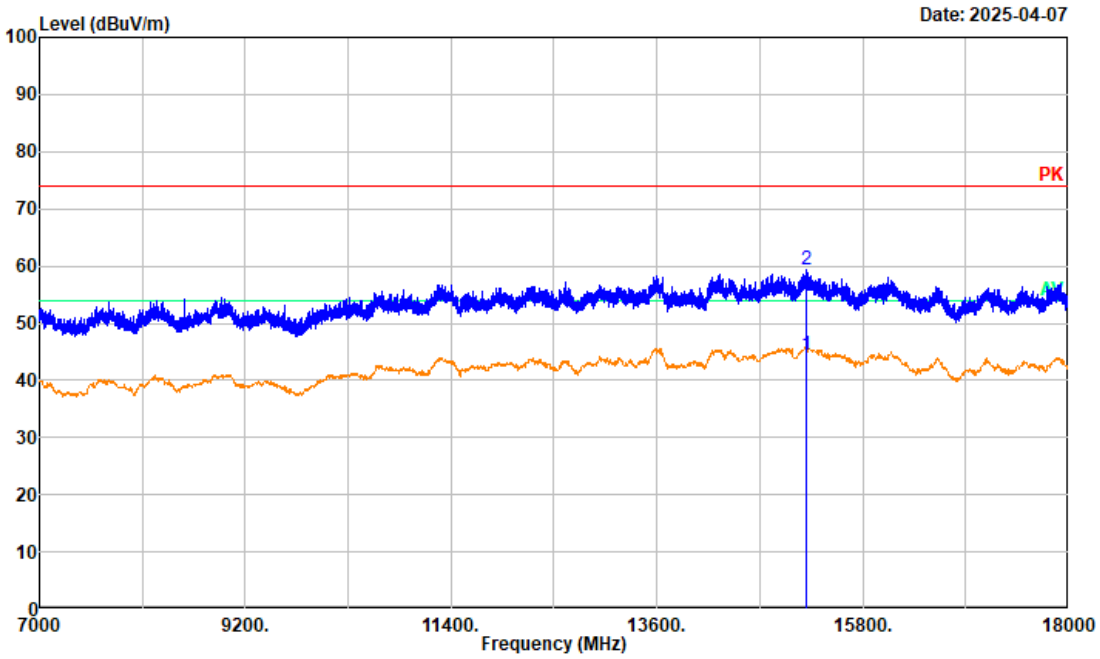


Project No. : 2505R50271E-RFA1
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 24.2℃/57%R.H./101.1kPa
Tested by : Barg Huang
Polarization : vertical
Remark : 802.11b 2462

--No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Detector
1	1499.000	51.04	-4.86	46.18	74.00	-27.82	Peak
2	1661.000	50.81	-3.80	47.01	74.00	-26.99	Peak
3	2240.000	52.26	-3.12	49.14	74.00	-24.86	Peak
4	4924.000	47.75	-1.70	46.05	74.00	-27.95	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain
Result = Reading + Factor
Over Limit = Result - Limit
SA setting: Peak: RBW/VBW: 1MHz/3MHz, DET: PK

Mode:	802.11b	Channel:	2462MHz

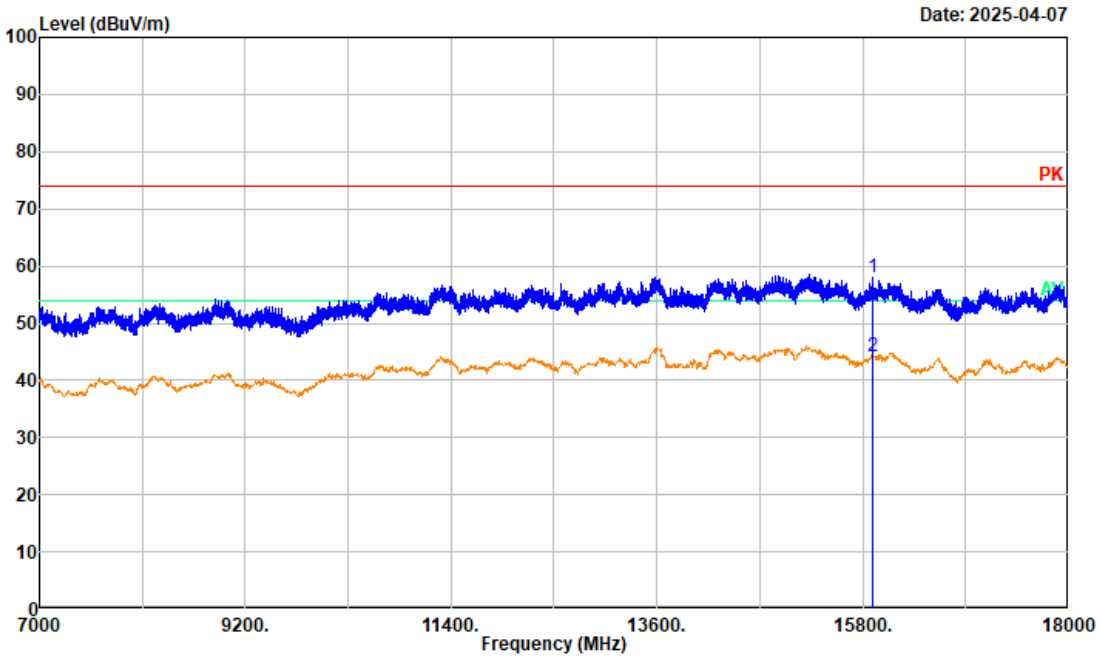


Project No. : 2505R50271E-RFA1
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 24.2℃/57%R.H./101.1kPa
Tested by : Barg Huang
Polarization : horizontal
Remark : 802.11b 2462

--No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Detector
1	15197.000	38.13	6.30	44.43	54.00	-9.57	Average
2	15197.000	53.18	6.30	59.48	74.00	-14.52	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain
Result = Reading + Factor
Over Limit = Result - Limit
SA setting: Peak: RBW/VBW: 1MHz/3MHz, DET: PK
Average: RBW/VBW: 1MHz/1kHz, DET: PK

Mode:	802.11b	Channel:	2462MHz

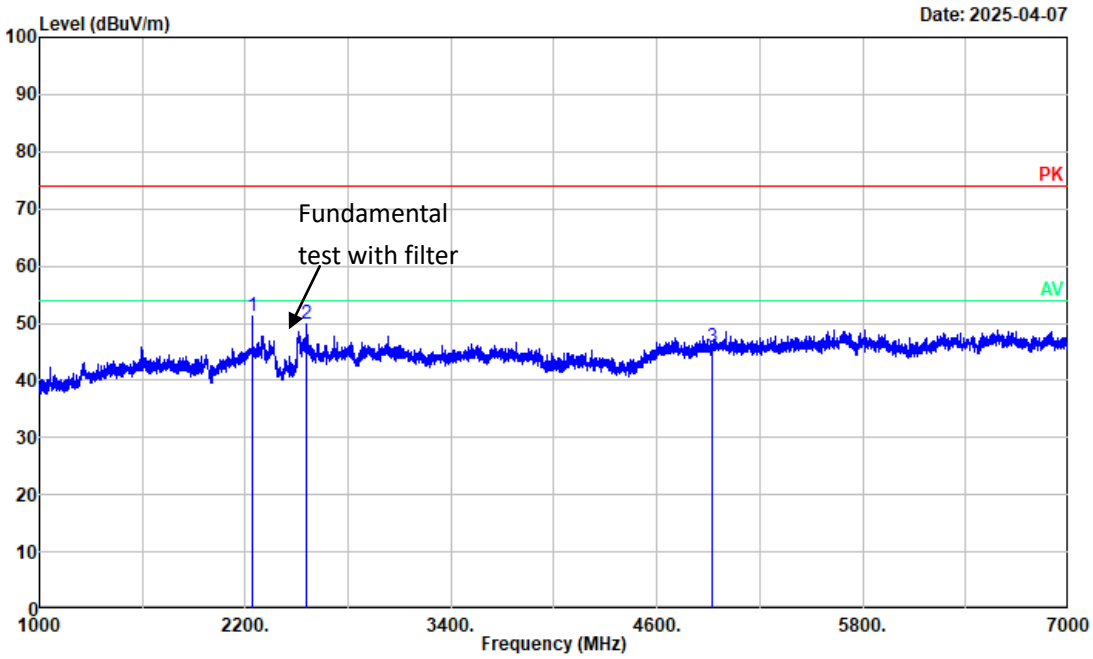


Project No. : 2505R50271E-RFA1
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 24.2℃/57%R.H./101.1kPa
Tested by : Barg Huang
Polarization : vertical
Remark : 802.11b 2462

--No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Detector
1	15910.000	52.18	5.94	58.12	74.00	-15.88	Peak
2	15910.000	38.28	5.94	44.22	74.00	-29.78	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain
Result = Reading + Factor
Over Limit = Result - Limit
SA setting: Peak: RBW/VBW: 1MHz/3MHz, DET: PK
Average: RBW/VBW: 1MHz/1kHz, DET: PK

Mode:	802.11g	Channel:	2462MHz

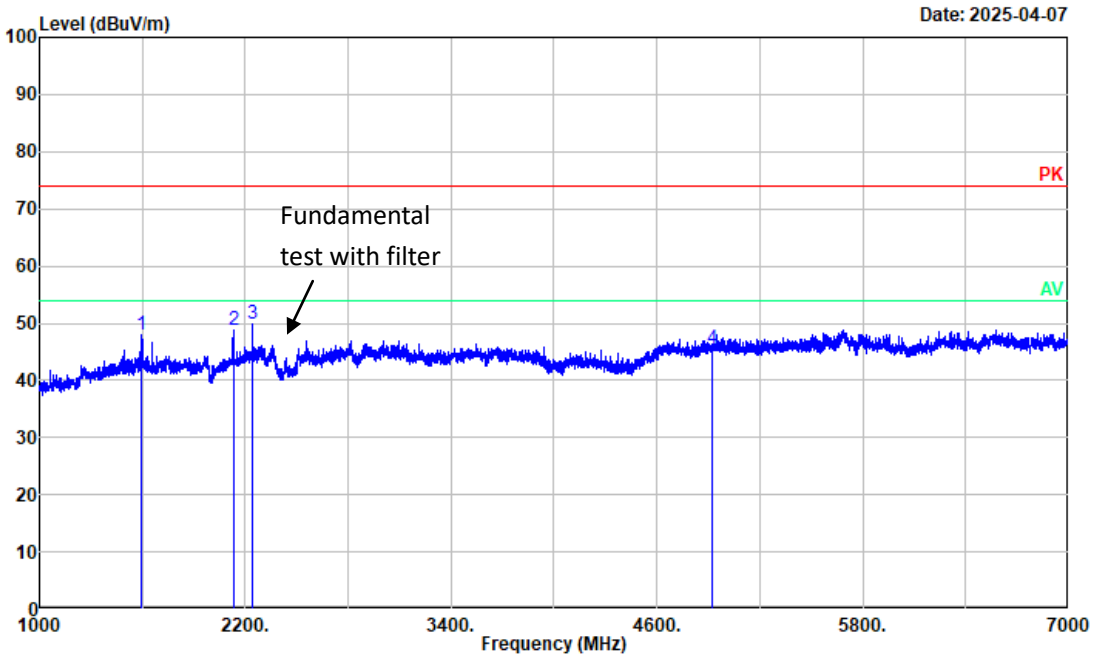


Project No. : 2505R50271E-RFA1
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 24.2℃/57%R.H./101.1kPa
Tested by : Barg Huang
Polarization : horizontal
Remark : 802.11g 2462

--No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Detector
1	2240.000	54.23	-3.12	51.11	74.00	-22.89	Peak
2	2560.000	52.34	-2.60	49.74	74.00	-24.26	Peak
3	4924.000	47.38	-1.70	45.68	74.00	-28.32	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain
Result = Reading + Factor
Over Limit = Result - Limit
SA setting: Peak: RBW/VBW: 1MHz/3MHz, DET: PK

Mode:	802.11g	Channel:	2462MHz

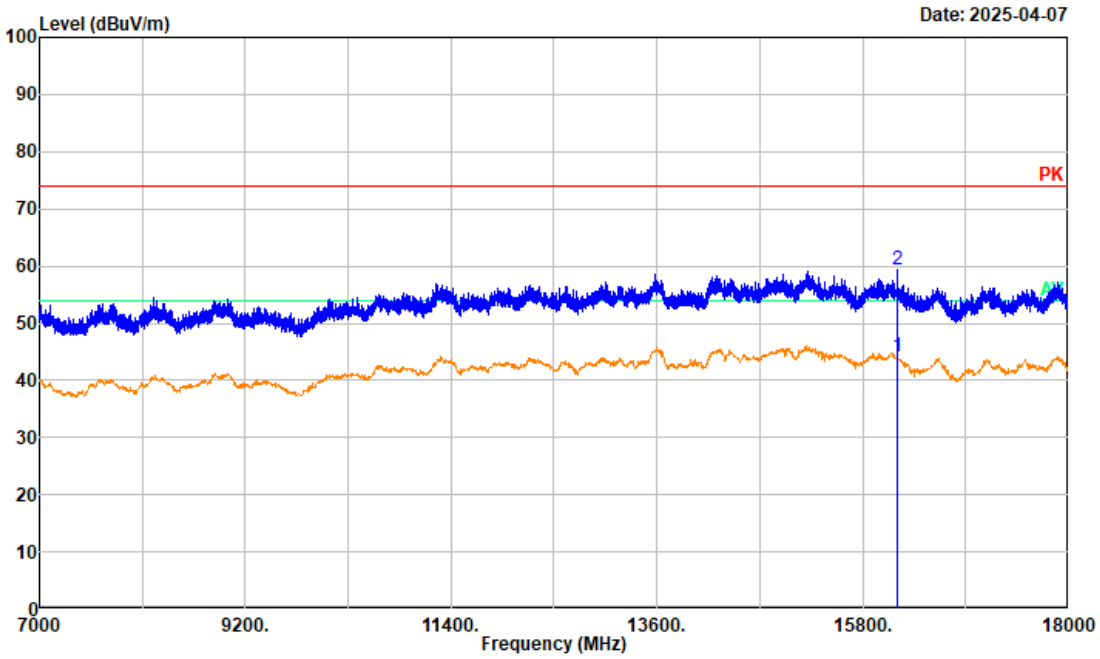


Project No. : 2505R50271E-RFA1
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 24.2℃/57%R.H./101.1kPa
Tested by : Barg Huang
Polarization : vertical
Remark : 802.11g 2462

--No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Detector
1	1592.000	52.20	-4.28	47.92	74.00	-26.08	Peak
2	2130.000	52.76	-3.96	48.80	74.00	-25.20	Peak
3	2240.000	53.05	-3.12	49.93	74.00	-24.07	Peak
4	4924.000	47.14	-1.70	45.44	74.00	-28.56	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain
Result = Reading + Factor
Over Limit = Result - Limit
SA setting: Peak: RBW/VBW: 1MHz/3MHz, DET: PK

Mode:	802.11g	Channel:	2462MHz

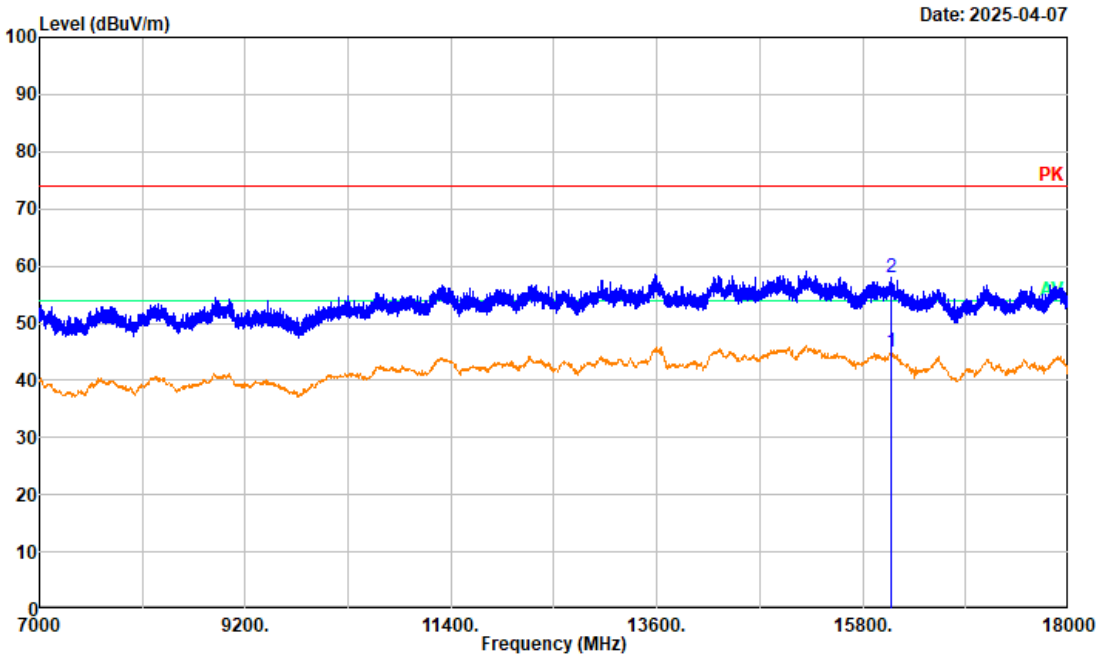


Project No. : 2505R50271E-RFA1
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 24.2℃/57%R.H./101.1kPa
Tested by : Barg Huang
Polarization : horizontal
Remark : 802.11g 2462

--No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	16163.000	38.46	5.65	44.11	54.00	-9.89	Average
2	16163.000	53.58	5.65	59.23	74.00	-14.77	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain
Result = Reading + Factor
Over Limit = Result - Limit
SA setting: Peak: RBW/VBW: 1MHz/3MHz, DET: PK
Average: RBW/VBW: 1MHz/1kHz, DET: PK

Mode:	802.11g	Channel:	2462MHz

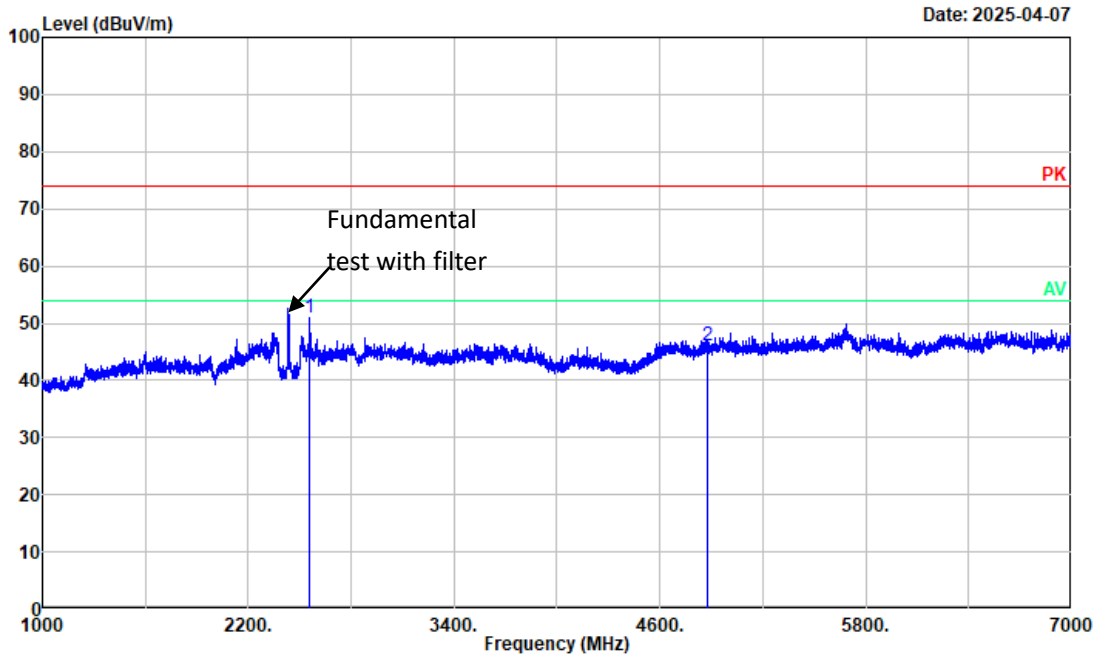


Project No. : 2505R50271E-RFA1
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 24.2℃/57%R.H./101.1kPa
Tested by : Barg Huang
Polarization : vertical
Remark : 802.11g 2462

--No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	16098.000	38.61	6.24	44.85	54.00	-9.15	Average
2	16098.000	51.87	6.24	58.11	74.00	-15.89	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain
Result = Reading + Factor
Over Limit = Result - Limit
SA setting: Peak: RBW/VBW: 1MHz/3MHz, DET: PK
Average: RBW/VBW: 1MHz/1kHz, DET: PK

Mode:	802.11n20	Channel:	2437MHz

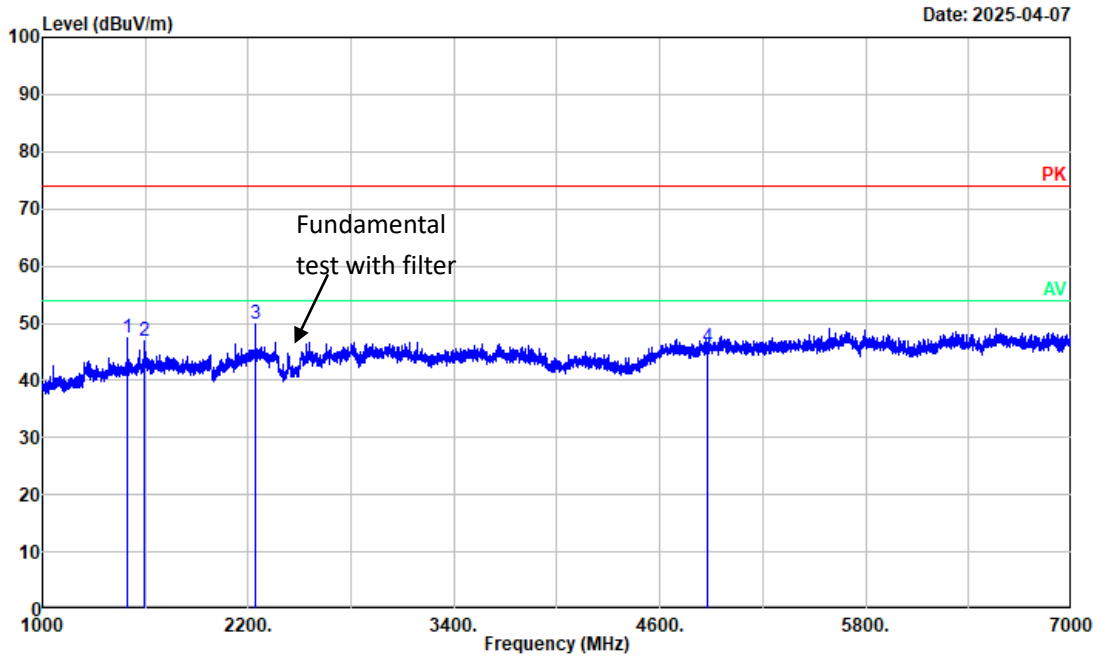


Project No. : 2505R50271E-RFA1
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 24.2℃/57%R.H./101.1kPa
Tested by : Barg Huang
Polarization : horizontal
Remark : 802.11n20 2437

--No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Detector
1	2560.000	53.61	-2.60	51.01	74.00	-22.99	Peak
2	4874.000	48.07	-1.92	46.15	74.00	-27.85	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain
Result = Reading + Factor
Over Limit = Result - Limit
SA setting: Peak: RBW/VBW: 1MHz/3MHz, DET: PK

Mode:	802.11n20	Channel:	2437MHz

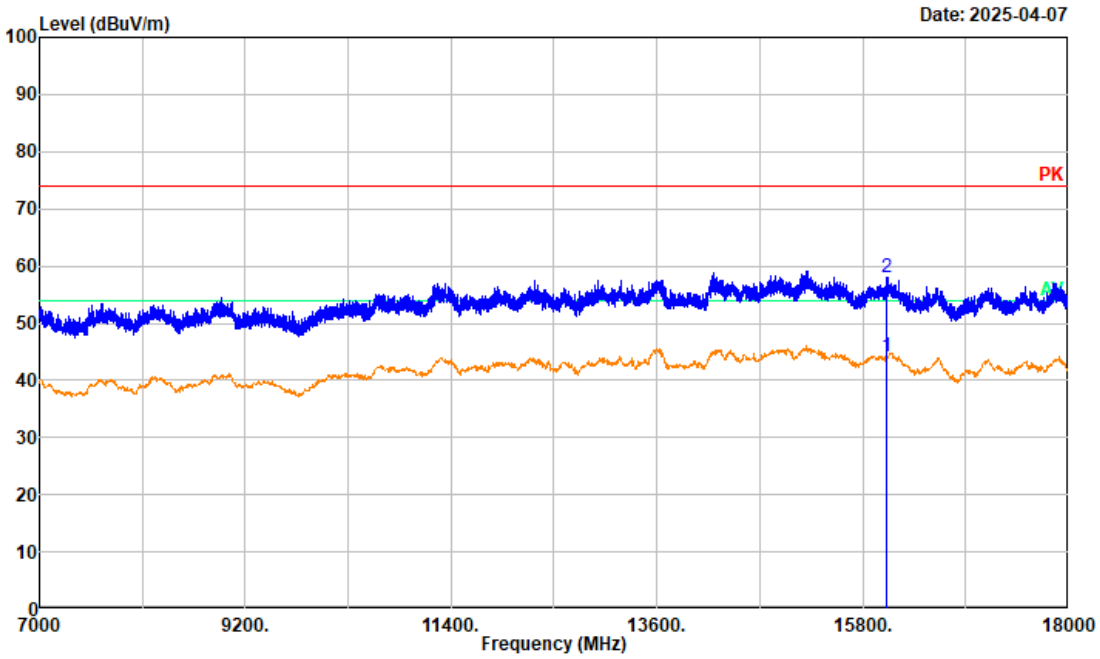


Project No. : 2505R50271E-RFA1
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 24.2℃/57%R.H./101.1kPa
Tested by : Barg Huang
Polarization : vertical
Remark : 802.11n20 2437

--No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Detector
1	1493.000	52.34	-4.90	47.44	74.00	-26.56	Peak
2	1595.000	51.13	-4.25	46.88	74.00	-27.12	Peak
3	2240.000	52.99	-3.12	49.87	74.00	-24.13	Peak
4	4874.000	47.79	-1.92	45.87	74.00	-28.13	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain
Result = Reading + Factor
Over Limit = Result - Limit
SA setting: Peak: RBW/VBW: 1MHz/3MHz, DET: PK

Mode:	802.11n20	Channel:	2437MHz

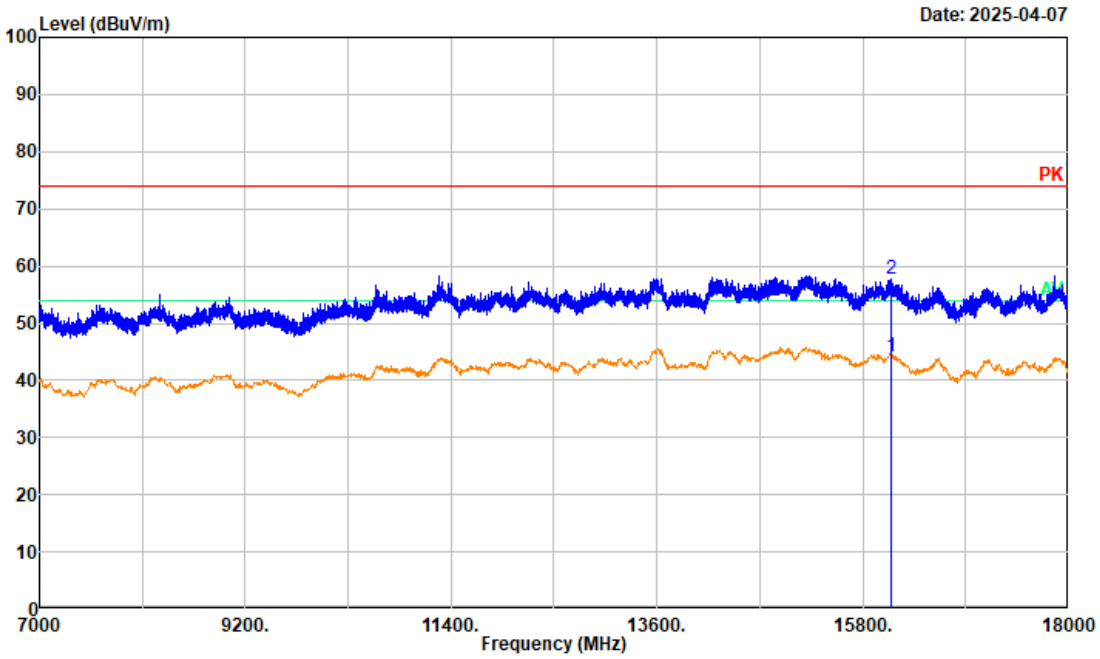


Project No. : 2505R50271E-RFA1
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 24.2℃/57%R.H./101.1kPa
Tested by : Barg Huang
Polarization : horizontal
Remark : 802.11n20 2437

--No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Detector
1	16051.000	37.91	6.33	44.24	54.00	-9.76	Average
2	16051.000	51.58	6.33	57.91	74.00	-16.09	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain
Result = Reading + Factor
Over Limit = Result - Limit
SA setting: Peak: RBW/VBW: 1MHz/3MHz, DET: PK
Average: RBW/VBW: 1MHz/1kHz, DET: PK

Mode:	802.11n20	Channel:	2437MHz

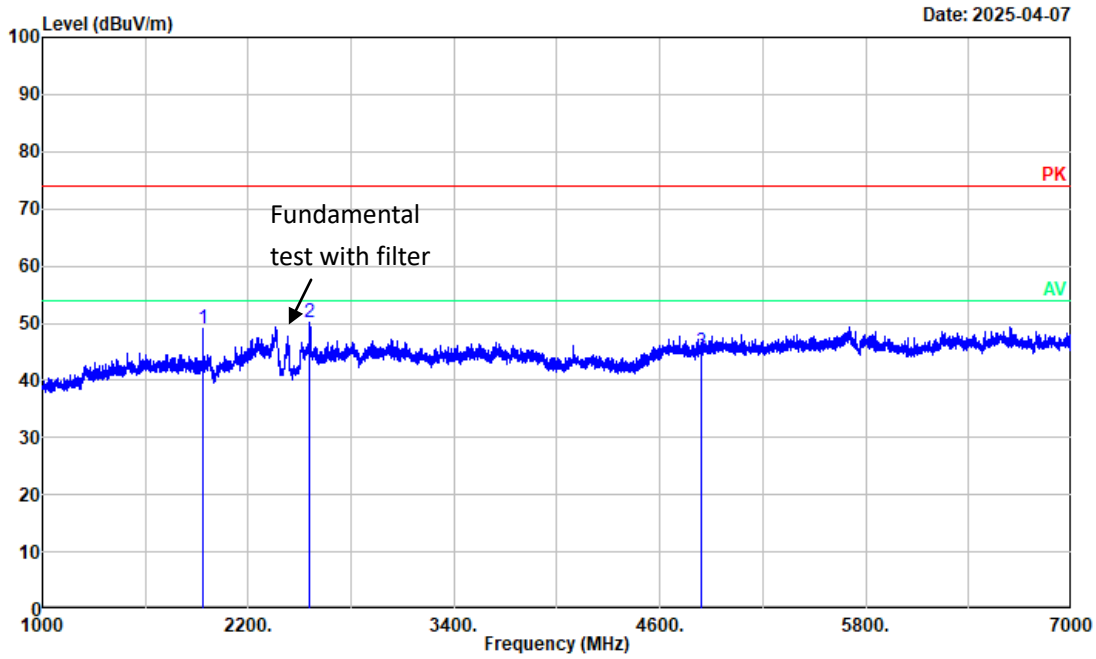


Project No. : 2505R50271E-RFA1
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 24.2℃/57%R.H./101.1kPa
Tested by : Barg Huang
Polarization : vertical
Remark : 802.11n20 2437

--No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Detector
1	16111.000	38.15	6.13	44.28	54.00	-9.72	Average
2	16111.000	51.56	6.13	57.69	74.00	-16.31	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain
Result = Reading + Factor
Over Limit = Result - Limit
SA setting: Peak: RBW/VBW: 1MHz/3MHz, DET: PK
Average: RBW/VBW: 1MHz/1kHz, DET: PK

Mode:	802.11n40	Channel:	2422MHz

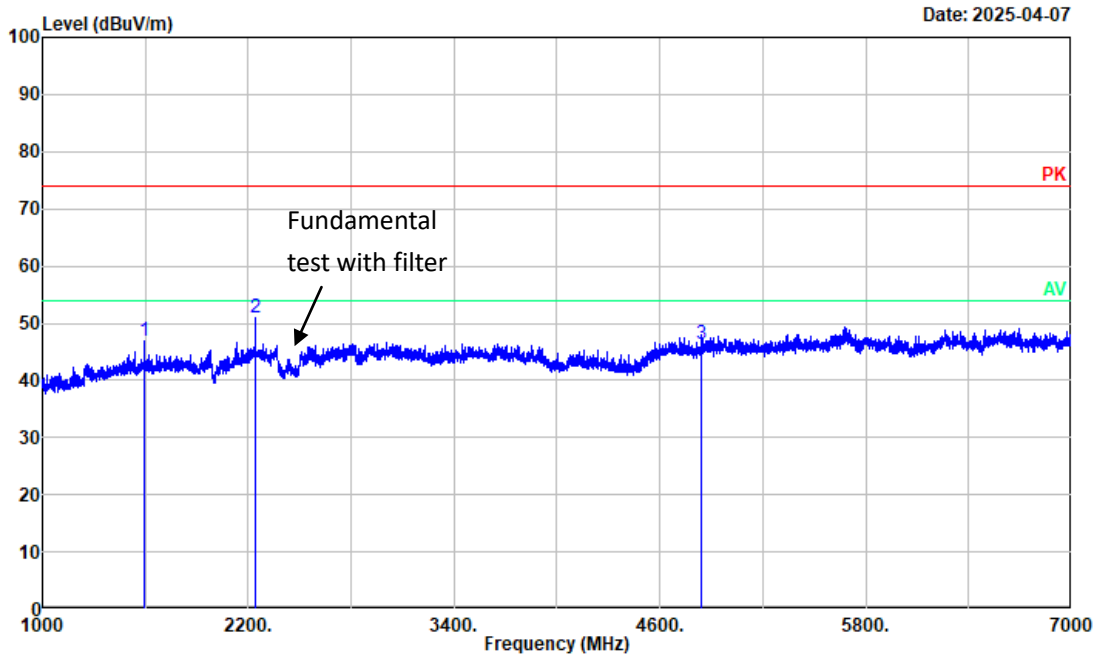


Project No. : 2505R50271E-RFA1
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 24.2℃/57%R.H./101.1kPa
Tested by : Barg Huang
Polarization : horizontal
Remark : 802.11n40 2422

--No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Detector
1	1937.000	53.65	-4.70	48.95	74.00	-25.05	Peak
2	2559.000	52.81	-2.60	50.21	74.00	-23.79	Peak
3	4844.000	47.27	-2.17	45.10	74.00	-28.90	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain
Result = Reading + Factor
Over Limit = Result - Limit
SA setting: Peak: RBW/VBW: 1MHz/3MHz, DET: PK

Mode:	802.11n40	Channel:	2422MHz

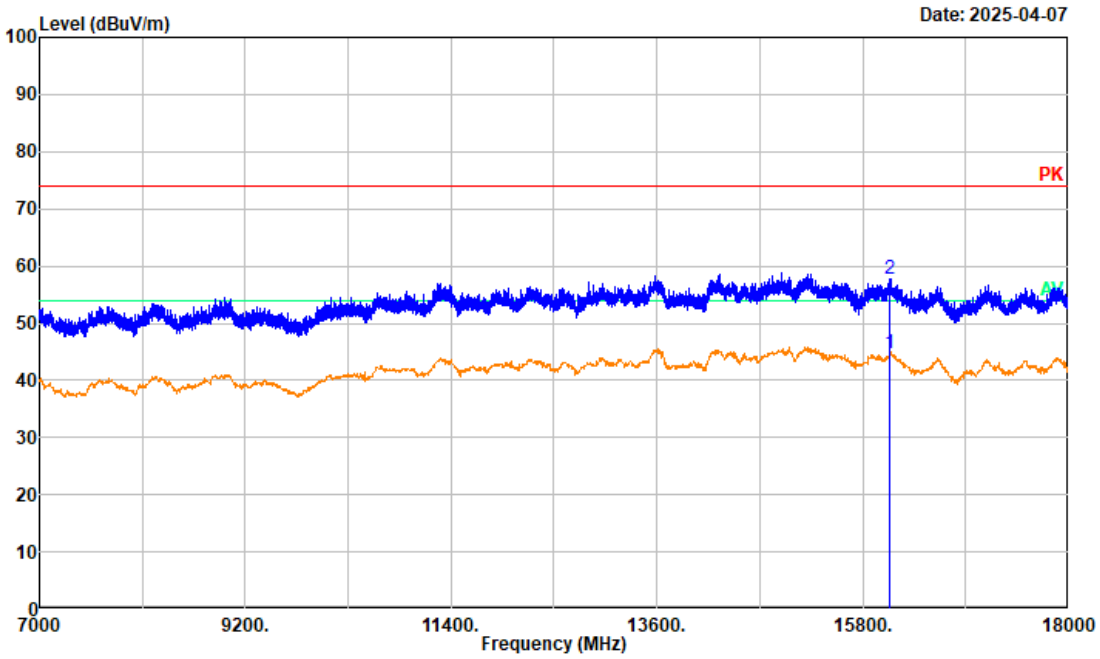


Project No. : 2505R50271E-RFA1
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 24.2℃/57%R.H./101.1kPa
Tested by : Barg Huang
Polarization : vertical
Remark : 802.11n40 2422

--No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Detector
1	1595.000	51.05	-4.25	46.80	74.00	-27.20	Peak
2	2240.000	54.14	-3.12	51.02	74.00	-22.98	Peak
3	4844.000	48.44	-2.17	46.27	74.00	-27.73	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain
Result = Reading + Factor
Over Limit = Result - Limit
SA setting: Peak: RBW/VBW: 1MHz/3MHz, DET: PK

Mode:	802.11n40	Channel:	2422MHz

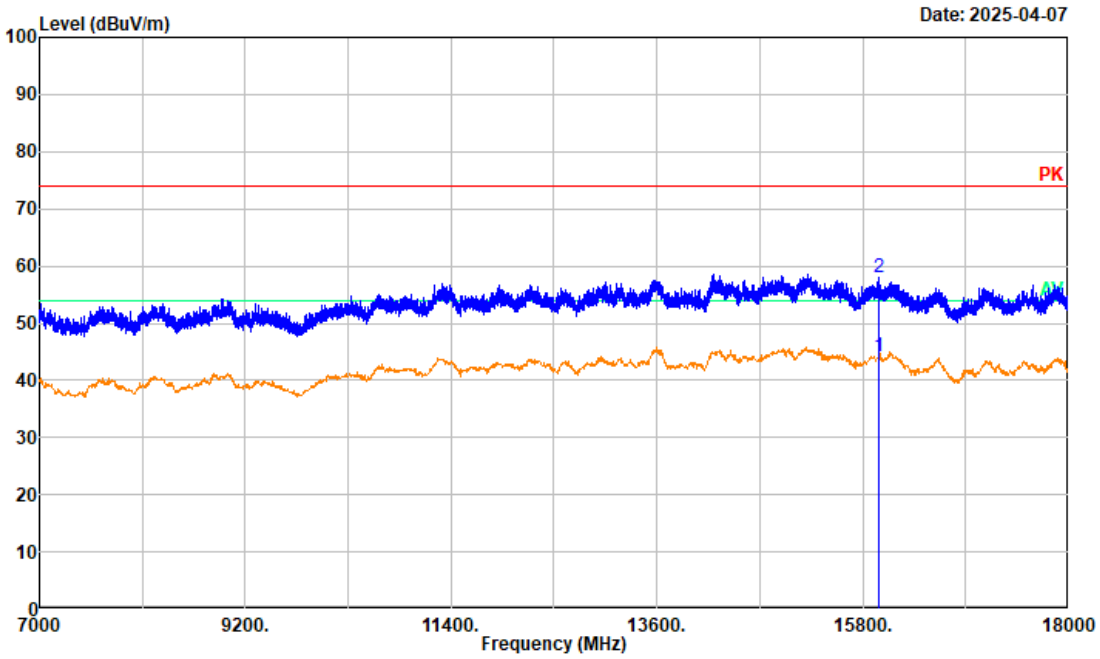


Project No. : 2505R50271E-RFA1
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 24.2℃/57%R.H./101.1kPa
Tested by : Barg Huang
Polarization : horizontal
Remark : 802.11n40 2422

--No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Detector
1	16090.000	38.37	6.25	44.62	54.00	-9.38	Average
2	16090.000	51.46	6.25	57.71	74.00	-16.29	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain
Result = Reading + Factor
Over Limit = Result - Limit
SA setting: Peak: RBW/VBW: 1MHz/3MHz, DET: PK
Average: RBW/VBW: 1MHz/2KHz , DET: PK

Mode:	802.11n40	Channel:	2422MHz

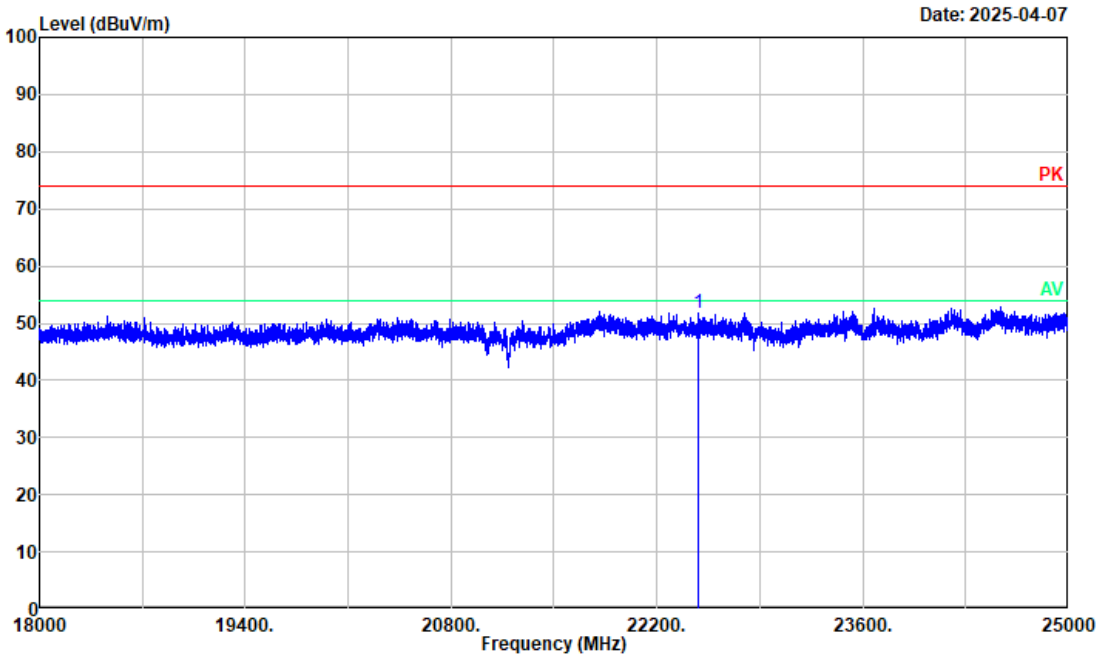


Project No. : 2505R50271E-RFA1
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 24.2℃/57%R.H./101.1kPa
Tested by : Barg Huang
Polarization : vertical
Remark : 802.11n40 2422

--No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Detector
1	15967.000	38.06	6.24	44.30	54.00	-9.70	Average
2	15967.000	51.85	6.24	58.09	74.00	-15.91	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain
Result = Reading + Factor
Over Limit = Result - Limit
SA setting: Peak: RBW/VBW: 1MHz/3MHz, DET: PK
Average: RBW/VBW: 1MHz/2KHz , DET: PK

Mode:	802.11g	Channel:	2412MHz

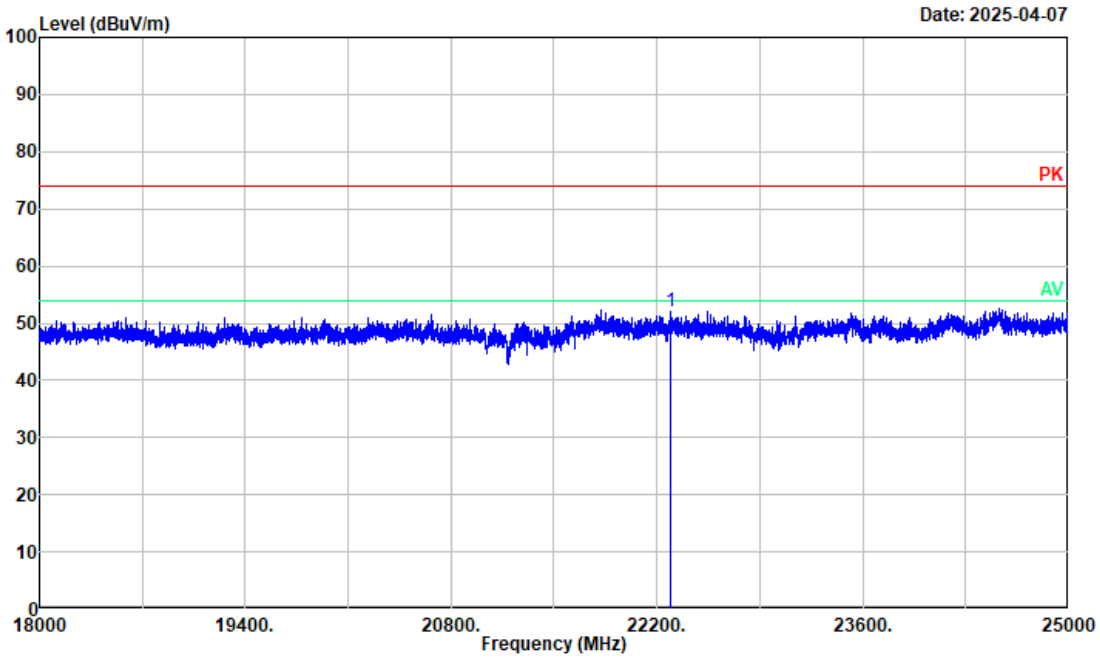


Project No. : 2505R50271E-RFA1
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 24.2℃/57%R.H./101.1kPa
Tested by : Bard Huang
Polarization : horizontal
Remark : 802.11g 2412

--No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Detector
1	22486.000	54.63	-2.85	51.78	74.00	-22.22	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain - Distance extrapolate factor
Distance extrapolate factor = 20*log(specified distance/measured distance)
Specified distance = 3 meters, measured distance = 1.5 meters
Result = Reading + Factor
Over Limit = Result - Limit
SA setting: Peak: RBW/VBW: 1MHz/3MHz, DET: PK
Average: RBW/VBW: 1MHz/1kHz, DET: PK

Mode:	802.11g	Channel:	2412MHz



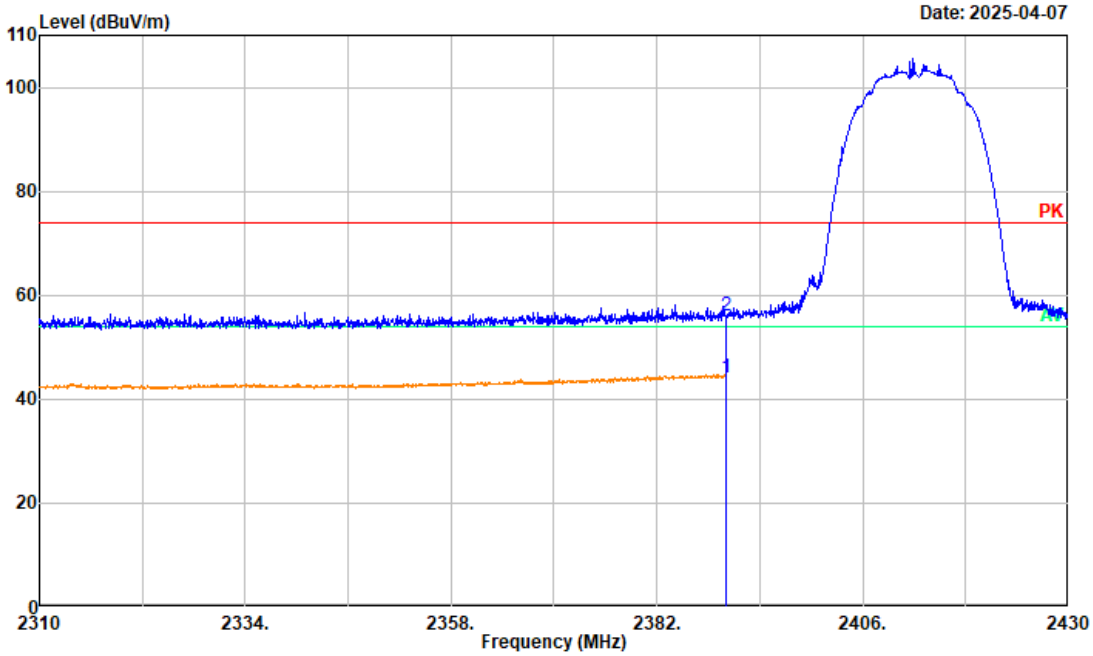
Project No. : 2505R50271E-RFA1
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 24.2℃/57%R.H./101.1kPa
Tested by : Bard Huang
Polarization : vertical
Remark : 802.11g 2412

--No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Detector
1	22297.000	54.78	-2.88	51.90	74.00	-22.10	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain - Distance extrapolate factor
Distance extrapolate factor = 20*log(specified distance/measured distance)
Specified distance = 3 meters, measured distance = 1.5 meters
Result = Reading + Factor
Over Limit = Result - Limit
SA setting: Peak: RBW/VBW: 1MHz/3MHz, DET: PK
Average: RBW/VBW: 1MHz/1kHz, DET: PK

Radiated Band edge:

Mode:	802.11b	Channel:	2412MHz

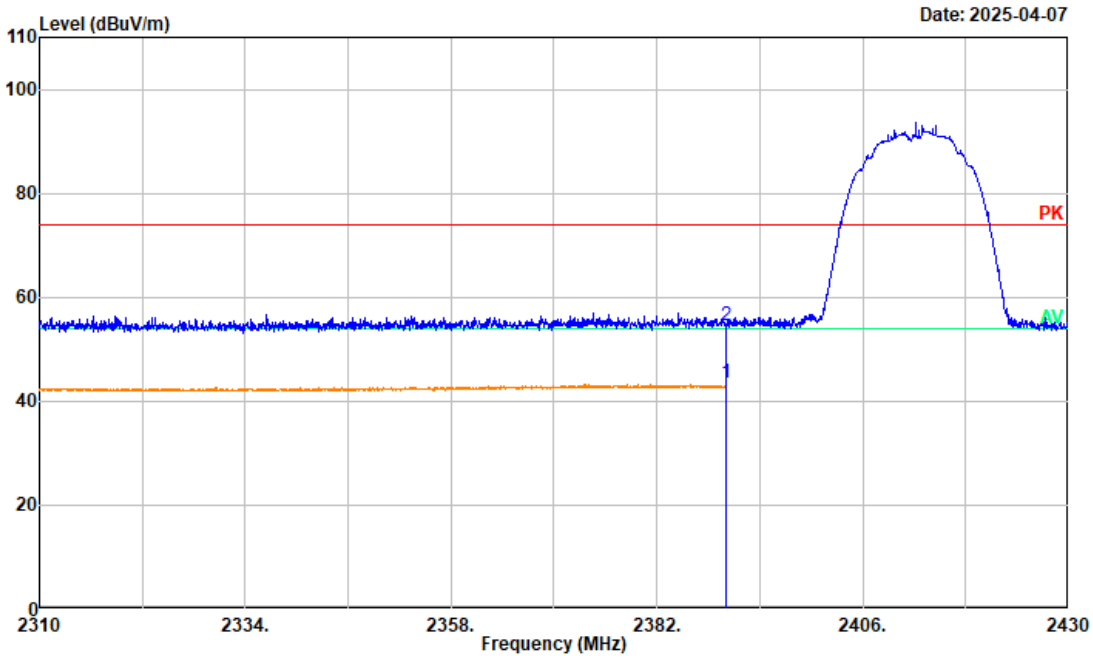


Project No. : 2505R50271E-RFA1
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 24.2℃/57%R.H./101.1kPa
Tested by : Barg Huang
Polarization : horizontal
Remark : 802.11b 2412

--No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	2389.980	37.10	7.00	44.10	54.00	-9.90	Average
2	2389.980	48.98	7.00	55.98	74.00	-18.02	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain
Result = Reading + Factor
Over Limit = Result - Limit
SA setting: Peak: RBW/VBW: 1MHz/3MHz, DET: PK
Average: RBW/VBW: 1MHz/1kHz, DET: PK

Mode:	802.11b	Channel:	2412MHz

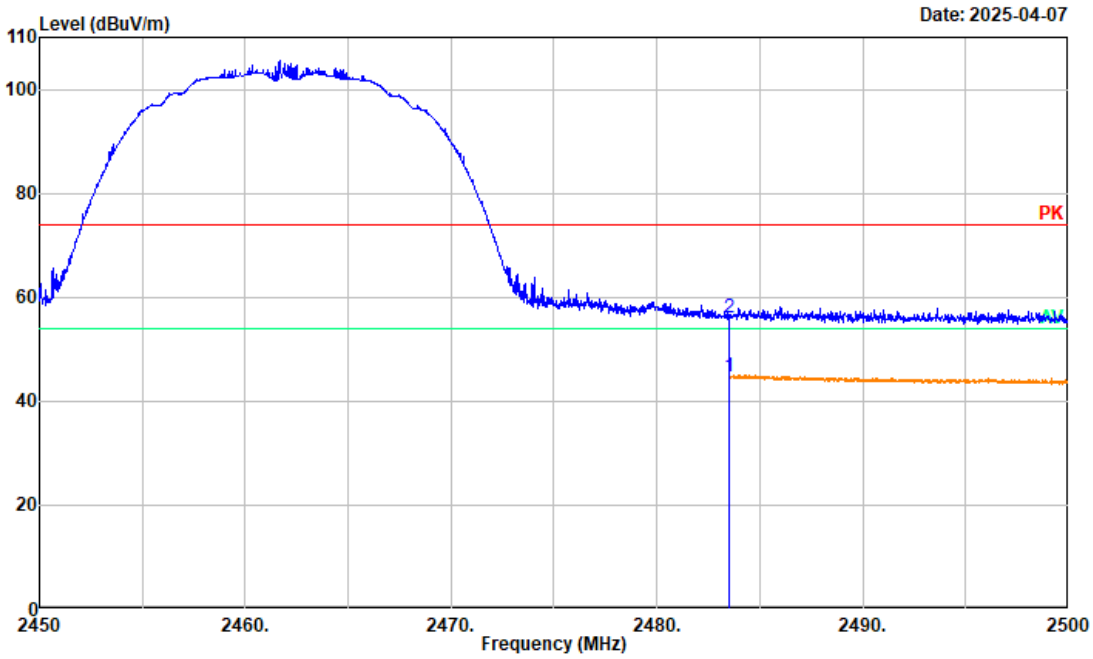


Project No. : 2505R50271E-RFA1
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 24.2℃/57%R.H./101.1kPa
Tested by : Barg Huang
Polarization : vertical
Remark : 802.11b 2412

--No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	2389.980	36.55	7.00	43.55	54.00	-10.45	Average
2	2389.980	47.61	7.00	54.61	74.00	-19.39	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain
Result = Reading + Factor
Over Limit = Result - Limit
SA setting: Peak: RBW/VBW: 1MHz/3MHz, DET: PK
Average: RBW/VBW: 1MHz/1kHz, DET: PK

Mode:	802.11b	Channel:	2462MHz

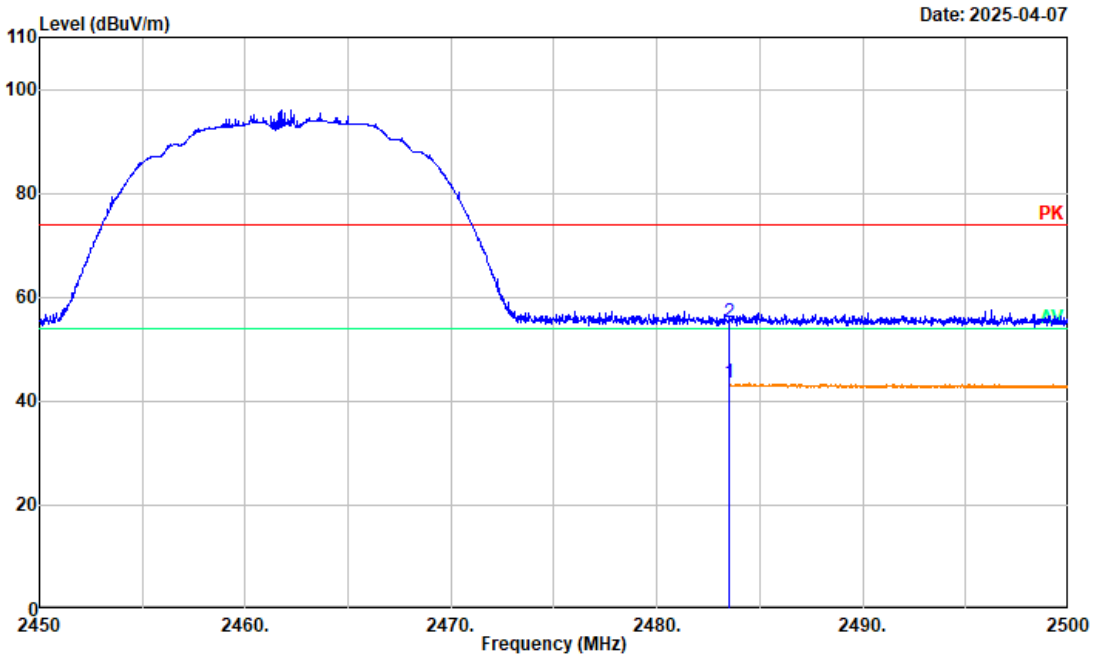


Project No. : 2505R50271E-RFA1
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 24.2℃/57%R.H./101.1kPa
Tested by : Barg Huang
Polarization : horizontal
Remark : 802.11b 2462

--No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	2483.500	37.58	7.20	44.78	54.00	-9.22	Average
2	2483.500	48.86	7.20	56.06	74.00	-17.94	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain
Result = Reading + Factor
Over Limit = Result - Limit
SA setting: Peak: RBW/VBW: 1MHz/3MHz, DET: PK
Average: RBW/VBW: 1MHz/1kHz, DET: PK

Mode:	802.11b	Channel:	2462MHz

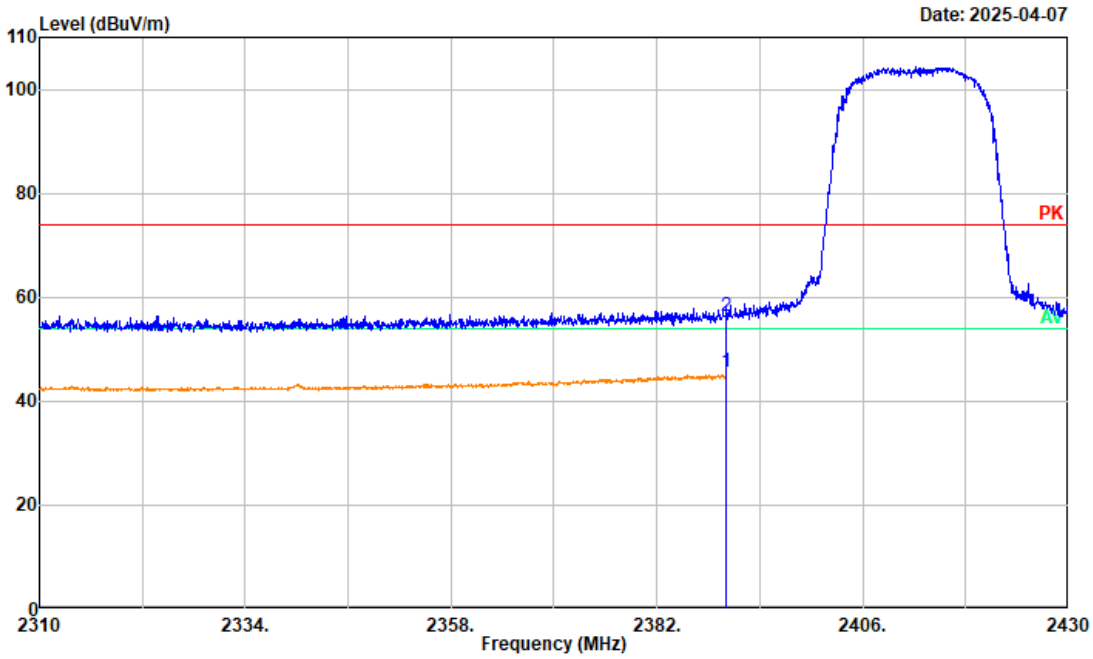


Project No. : 2505R50271E-RFA1
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 24.2℃/57%R.H./101.1kPa
Tested by : Barg Huang
Polarization : vertical
Remark : 802.11b 2462

--No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	2483.500	36.34	7.20	43.54	54.00	-10.46	Average
2	2483.500	48.02	7.20	55.22	74.00	-18.78	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain
Result = Reading + Factor
Over Limit = Result - Limit
SA setting: Peak: RBW/VBW: 1MHz/3MHz, DET: PK
Average: RBW/VBW: 1MHz/1kHz, DET: PK

Mode:	802.11g	Channel:	2412MHz

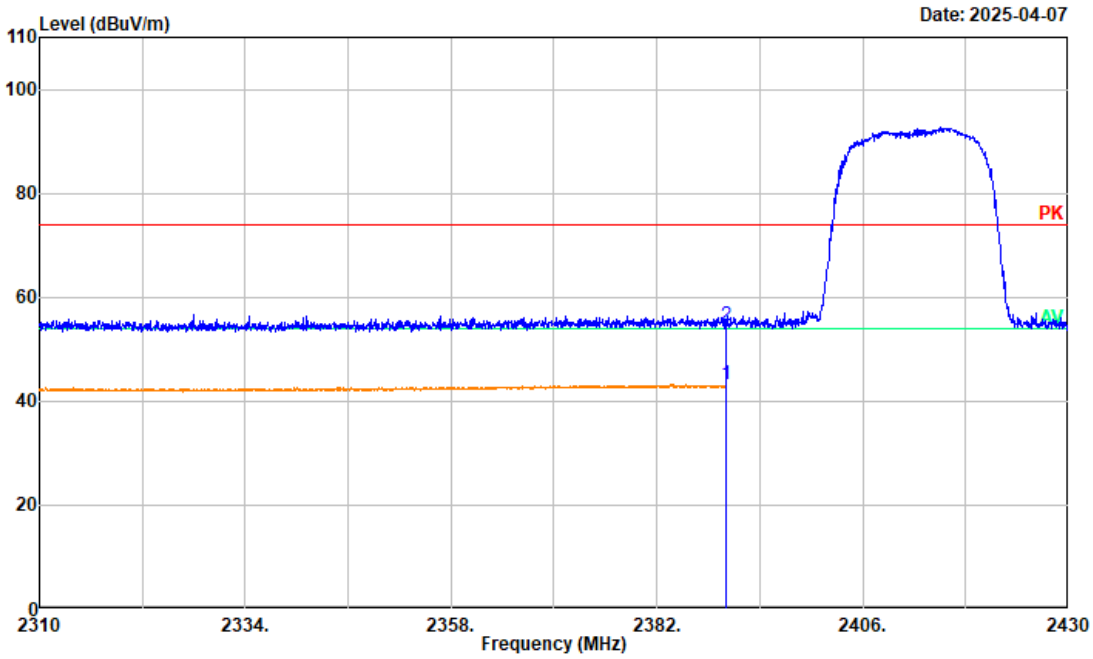


Project No. : 2505R50271E-RFA1
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 24.2℃/57%R.H./101.1kPa
Tested by : Barg Huang
Polarization : horizontal
Remark : 802.11g 2412

--No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Detector
1	2389.980	38.56	7.00	45.56	54.00	-8.44	Average
2	2389.980	49.29	7.00	56.29	74.00	-17.71	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain
Result = Reading + Factor
Over Limit = Result - Limit
SA setting: Peak: RBW/VBW: 1MHz/3MHz, DET: PK
Average: RBW/VBW: 1MHz/1kHz, DET: PK

Mode:	802.11g	Channel:	2412MHz

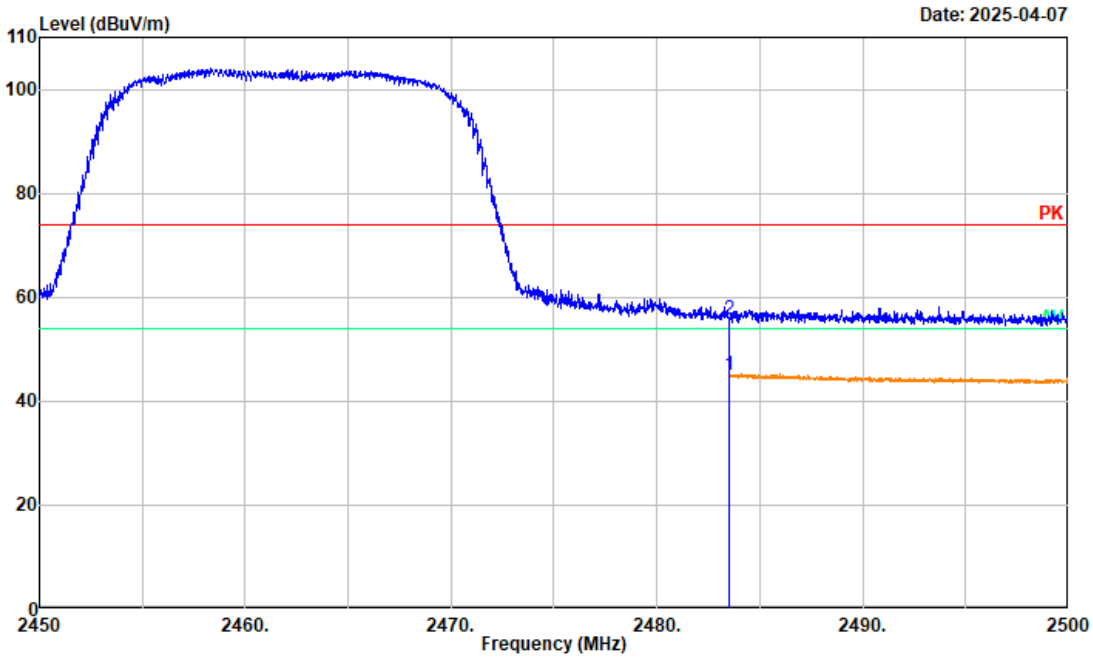


Project No. : 2505R50271E-RFA1
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 24.2℃/57%R.H./101.1kPa
Tested by : Barg Huang
Polarization : vertical
Remark : 802.11g 2412

--No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	2389.980	36.15	7.00	43.15	54.00	-10.85	Average
2	2389.980	47.41	7.00	54.41	74.00	-19.59	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain
Result = Reading + Factor
Over Limit = Result - Limit
SA setting: Peak: RBW/VBW: 1MHz/3MHz, DET: PK
Average: RBW/VBW: 1MHz/1kHz, DET: PK

Mode:	802.11g	Channel:	2462MHz

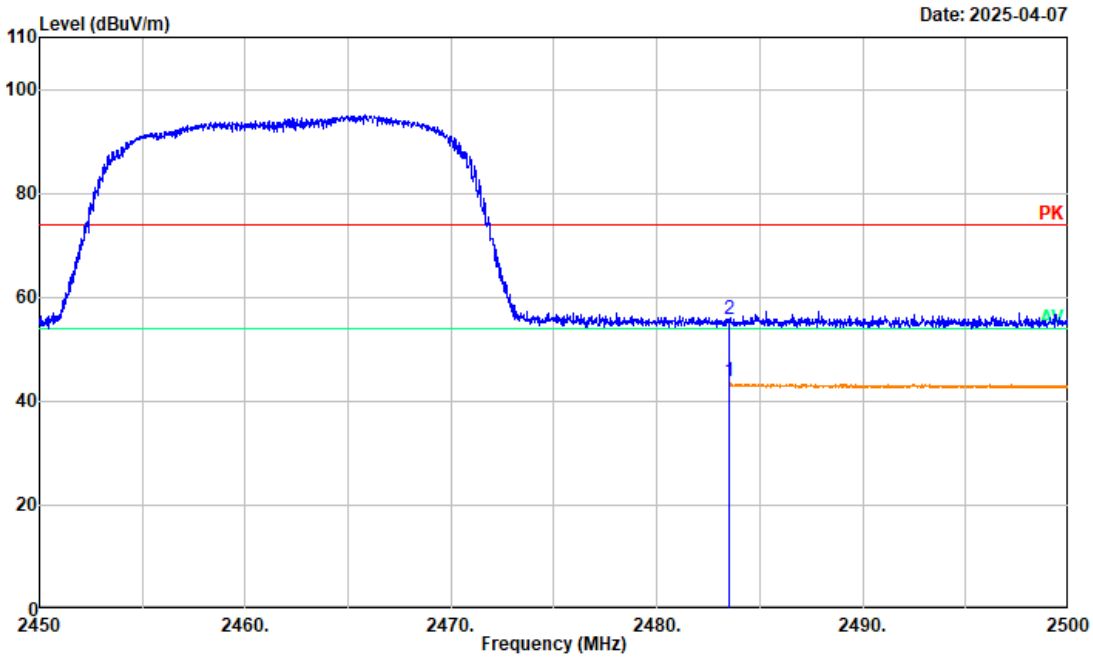


Project No. : 2505R50271E-RFA1
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 24.2℃/57%R.H./101.1kPa
Tested by : Barg Huang
Polarization : horizontal
Remark : 802.11g 2462

--No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	2483.500	37.84	7.20	45.04	54.00	-8.96	Average
2	2483.500	48.52	7.20	55.72	74.00	-18.28	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain
Result = Reading + Factor
Over Limit = Result - Limit
SA setting: Peak: RBW/VBW: 1MHz/3MHz, DET: PK
Average: RBW/VBW: 1MHz/1kHz, DET: PK

Mode:	802.11g	Channel:	2462MHz

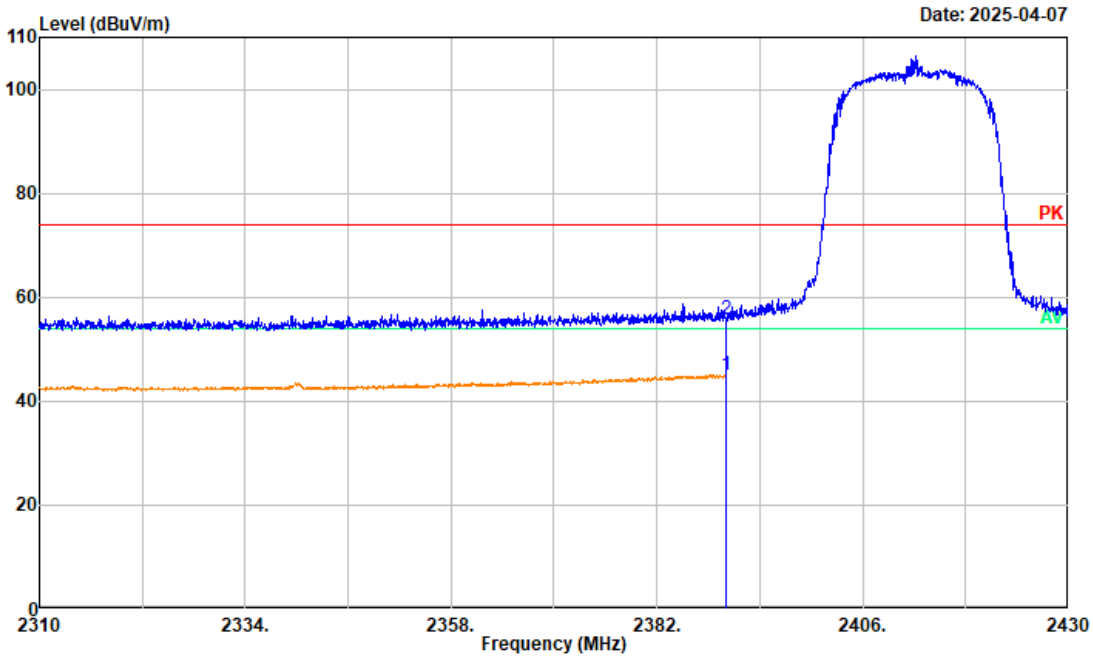


Project No. : 2505R50271E-RFA1
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 24.2℃/57%R.H./101.1kPa
Tested by : Barg Huang
Polarization : vertical
Remark : 802.11g 2462

--No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Detector
1	2483.500	36.69	7.20	43.89	54.00	-10.11	Average
2	2483.500	48.44	7.20	55.64	74.00	-18.36	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain
Result = Reading + Factor
Over Limit = Result - Limit
SA setting: Peak: RBW/VBW: 1MHz/3MHz, DET: PK
Average: RBW/VBW: 1MHz/1kHz, DET: PK

Mode:	802.11n20	Channel:	2412MHz

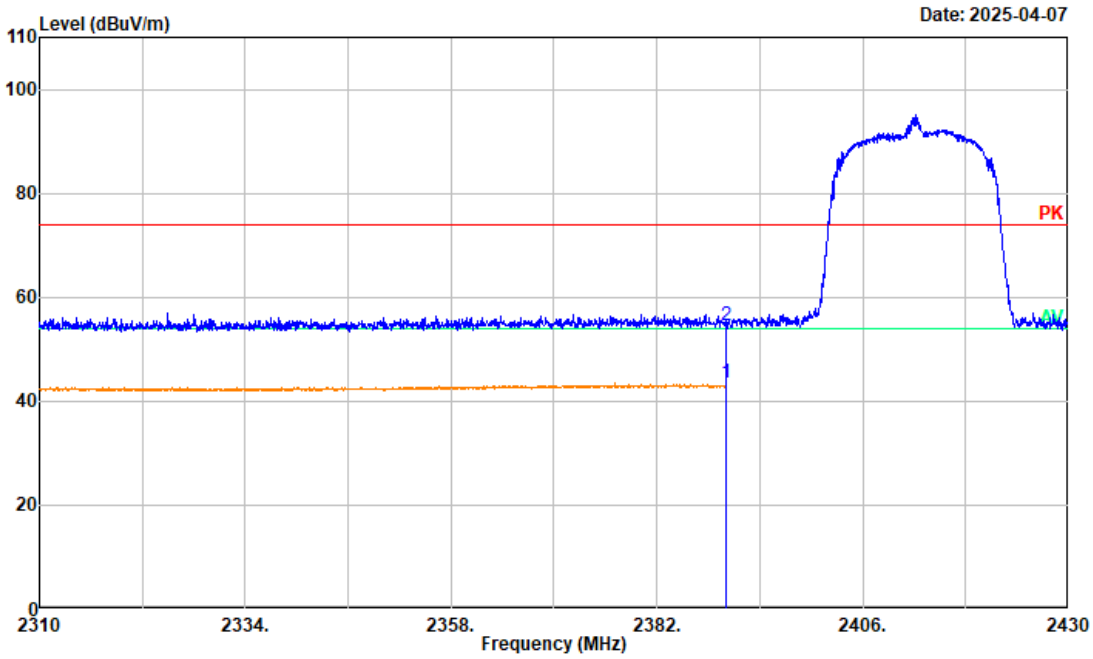


Project No. : 2505R50271E-RFA1
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 24.2℃/57%R.H./101.1kPa
Tested by : Barg Huang
Polarization : horizontal
Remark : 802.11n20 2412

--No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Detector
1	2389.980	37.90	7.00	44.90	54.00	-9.10	Average
2	2389.980	48.62	7.00	55.62	74.00	-18.38	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain
Result = Reading + Factor
Over Limit = Result - Limit
SA setting: Peak: RBW/VBW: 1MHz/3MHz, DET: PK
Average: RBW/VBW: 1MHz/1kHz, DET: PK

Mode:	802.11n20	Channel:	2412MHz

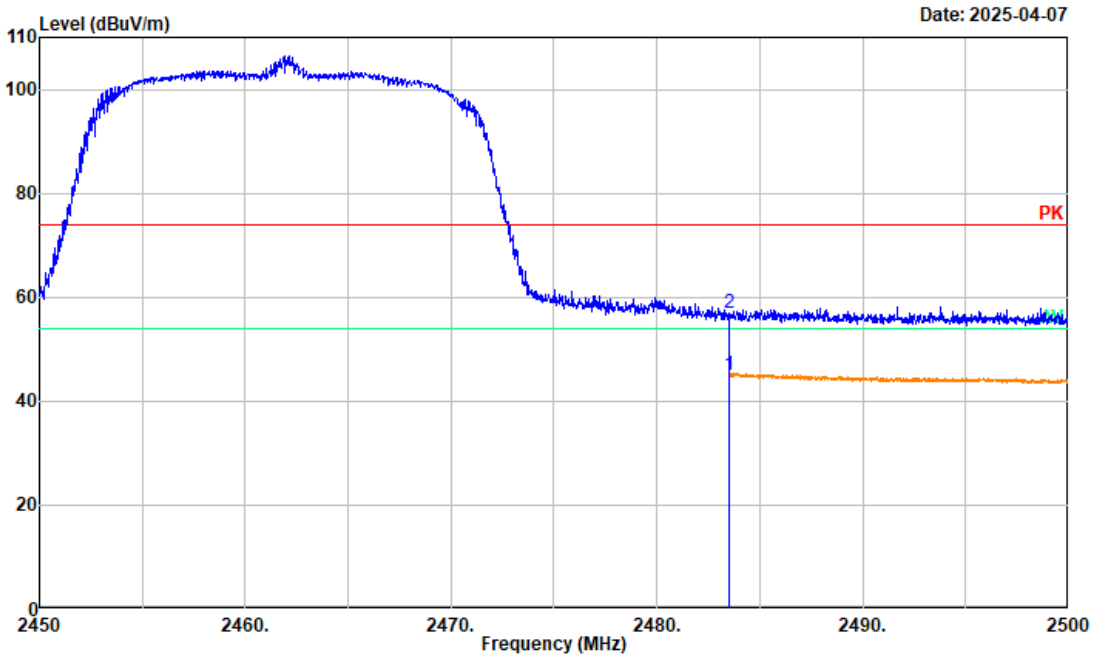


Project No. : 2505R50271E-RFA1
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 24.2℃/57%R.H./101.1kPa
Tested by : Barg Huang
Polarization : vertical
Remark : 802.11n20 2412

--No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	2389.980	36.50	7.00	43.50	54.00	-10.50	Average
2	2389.980	47.49	7.00	54.49	74.00	-19.51	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain
Result = Reading + Factor
Over Limit = Result - Limit
SA setting: Peak: RBW/VBW: 1MHz/3MHz, DET: PK
Average: RBW/VBW: 1MHz/1kHz, DET: PK

Mode:	802.11n20	Channel:	2462MHz

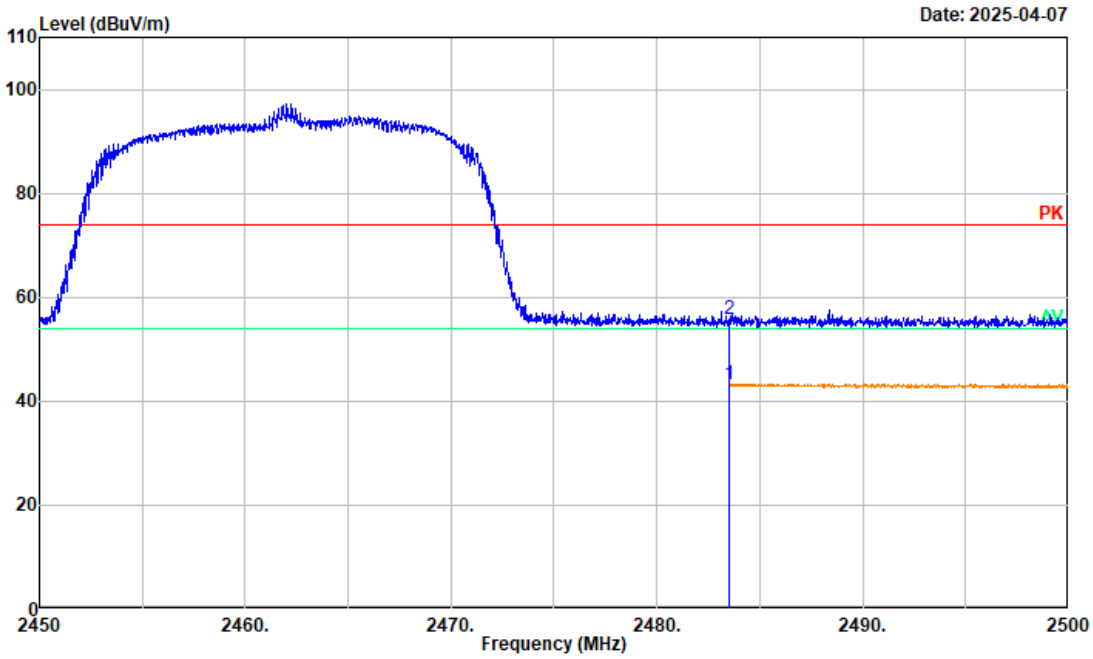


Project No. : 2505R50271E-RFA1
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 24.2℃/57%R.H./101.1kPa
Tested by : Barg Huang
Polarization : horizontal
Remark : 802.11n20 2462

--No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Detector
1	2483.500	37.95	7.20	45.15	54.00	-8.85	Average
2	2483.500	49.63	7.20	56.83	74.00	-17.17	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain
Result = Reading + Factor
Over Limit = Result - Limit
SA setting: Peak: RBW/VBW: 1MHz/3MHz, DET: PK
Average: RBW/VBW: 1MHz/1kHz, DET: PK

Mode:	802.11n20	Channel:	2462MHz

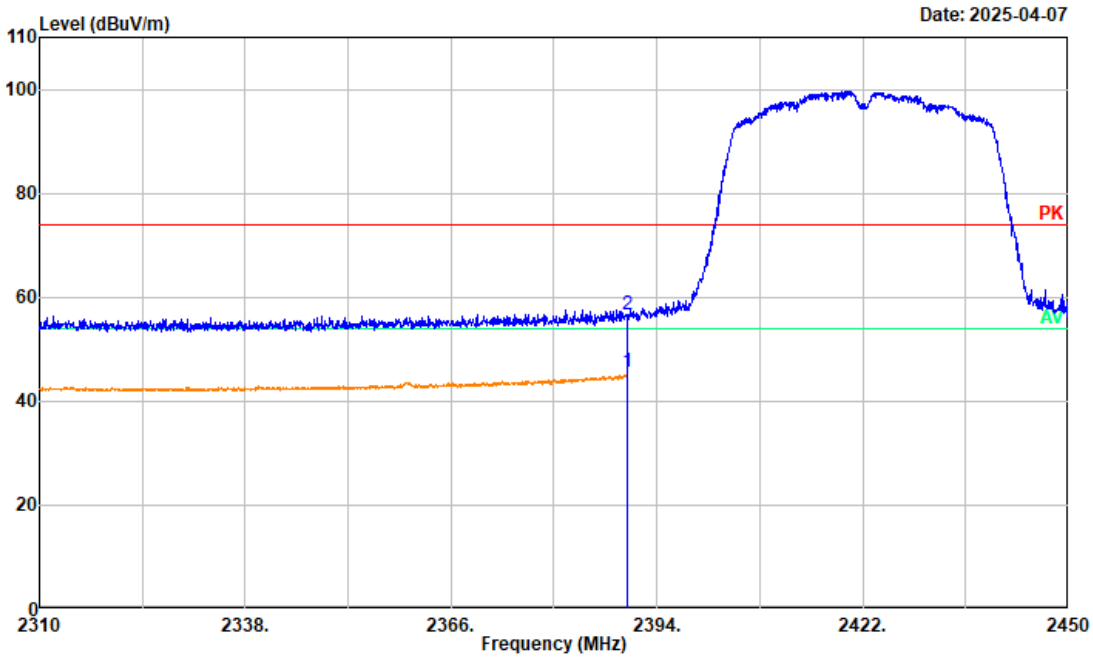


Project No. : 2505R50271E-RFA1
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 24.2℃/57%R.H./101.1kPa
Tested by : Barg Huang
Polarization : vertical
Remark : 802.11n20 2462

--No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	2483.500	36.16	7.20	43.36	54.00	-10.64	Average
2	2483.500	48.48	7.20	55.68	74.00	-18.32	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain
Result = Reading + Factor
Over Limit = Result - Limit
SA setting: Peak: RBW/VBW: 1MHz/3MHz, DET: PK
Average: RBW/VBW: 1MHz/1kHz, DET: PK

Mode:	802.11n40	Channel:	2422MHz

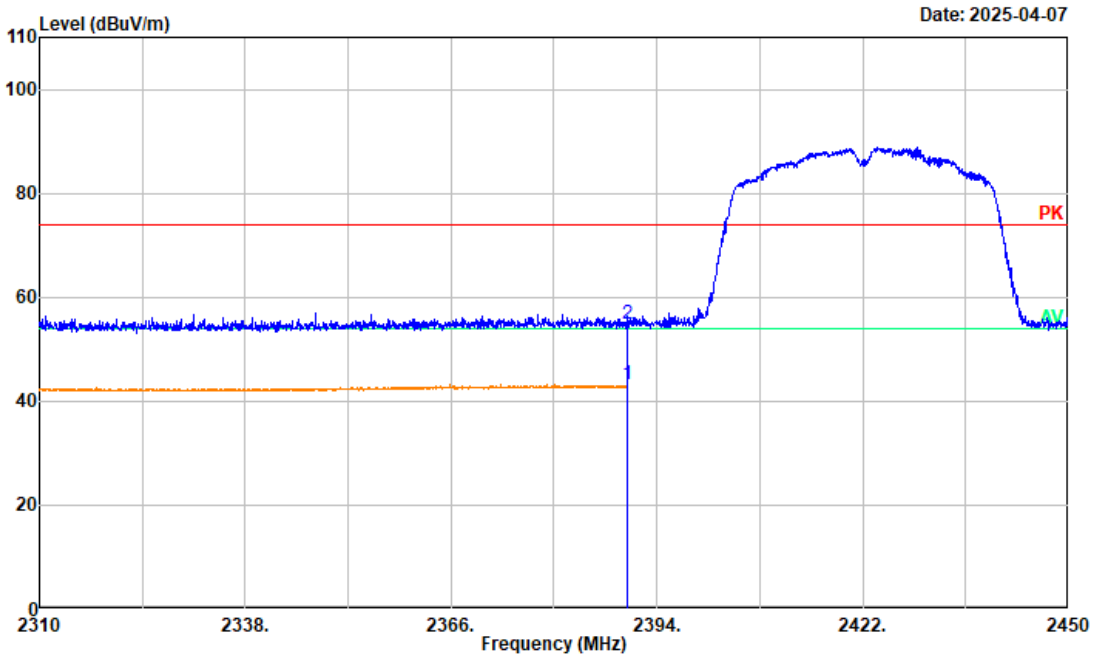


Project No. : 2505R50271E-RFA1
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 24.2℃/57%R.H./101.1kPa
Tested by : Barg Huang
Polarization : horizontal
Remark : 802.11n40 2422

--No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Detector
1	2390.000	38.54	7.00	45.54	54.00	-8.46	Average
2	2390.000	49.62	7.00	56.62	74.00	-17.38	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain
Result = Reading + Factor
Over Limit = Result - Limit
SA setting: Peak: RBW/VBW: 1MHz/3MHz, DET: PK
Average: RBW/VBW: 1MHz/2KHz , DET: PK

Mode:	802.11n40	Channel:	2422MHz

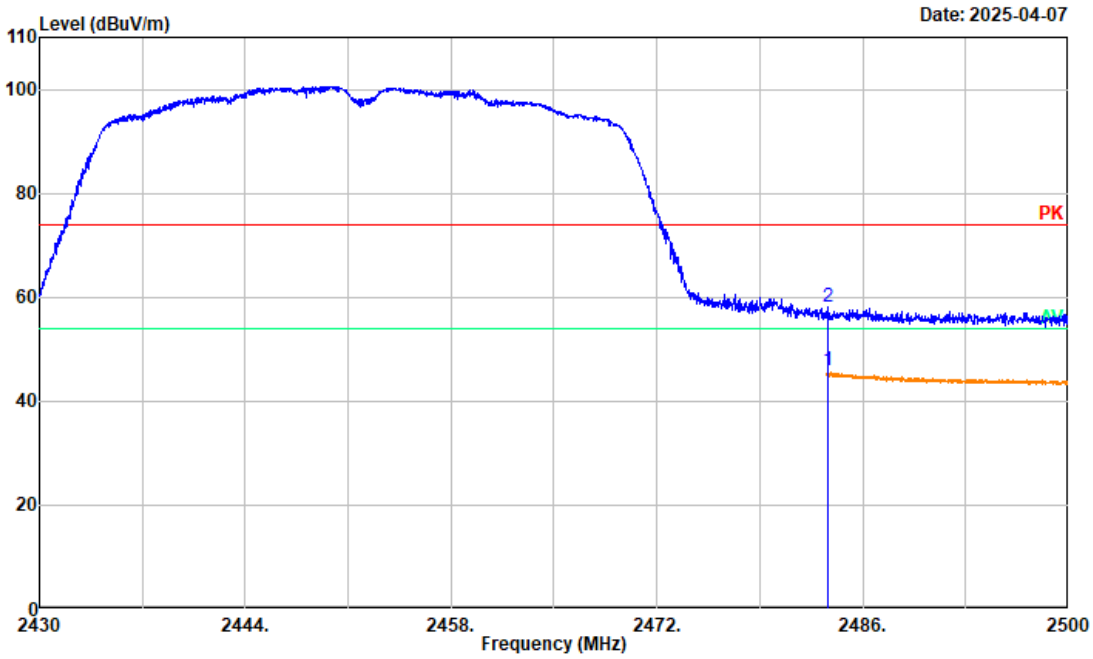


Project No. : 2505R50271E-RFA1
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 24.2℃/57%R.H./101.1kPa
Tested by : Barg Huang
Polarization : vertical
Remark : 802.11n40 2422

--No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Detector
1	2390.000	36.28	7.00	43.28	54.00	-10.72	Average
2	2390.000	47.90	7.00	54.90	74.00	-19.10	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain
Result = Reading + Factor
Over Limit = Result - Limit
SA setting: Peak: RBW/VBW: 1MHz/3MHz, DET: PK
Average: RBW/VBW: 1MHz/2KHz , DET: PK

Mode:	802.11n40	Channel:	2452MHz

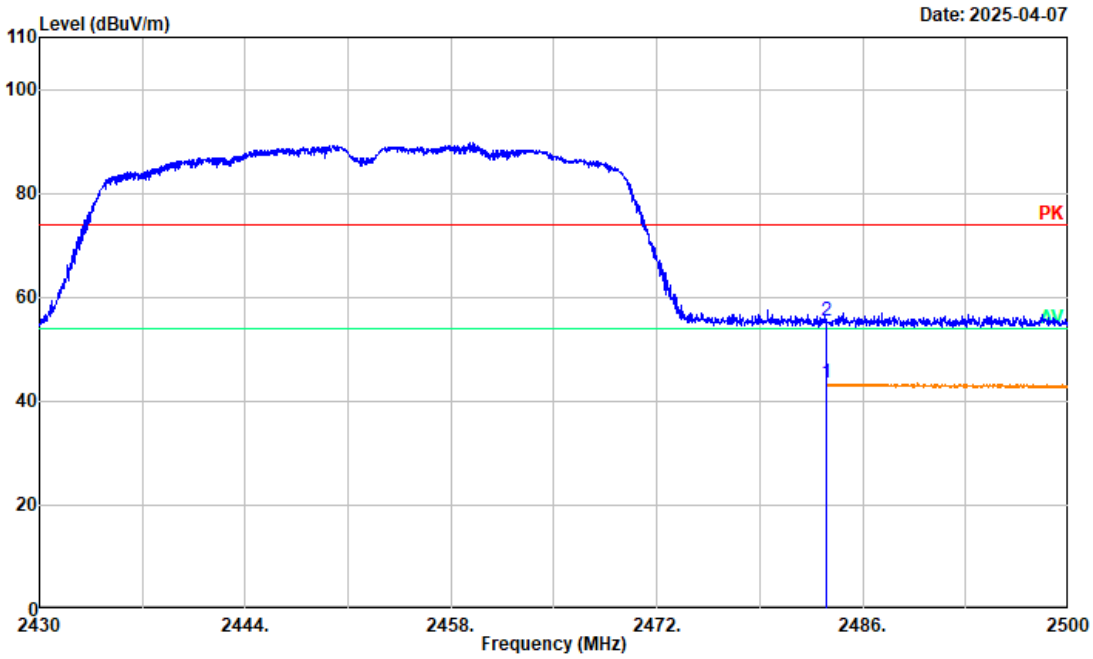


Project No. : 2505R50271E-RFA1
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 24.2℃/57%R.H./101.1kPa
Tested by : Barg Huang
Polarization : horizontal
Remark : 802.11n40 2452

--No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Detector
1	2483.655	38.56	7.20	45.76	54.00	-8.24	Average
2	2483.655	50.95	7.20	58.15	74.00	-15.85	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain
Result = Reading + Factor
Over Limit = Result - Limit
SA setting: Peak: RBW/VBW: 1MHz/3MHz, DET: PK
Average: RBW/VBW: 1MHz/2KHz , DET: PK

Mode:	802.11n40	Channel:	2452MHz



Project No. : 2505R50271E-RFA1
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 24.2℃/57%R.H./101.1kPa
Tested by : Barg Huang
Polarization : vertical
Remark : 802.11n40 2452

--No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Detector
1	2483.515	36.39	7.20	43.59	54.00	-10.41	Average
2	2483.515	48.36	7.20	55.56	74.00	-18.44	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain
Result = Reading + Factor
Over Limit = Result - Limit
SA setting: Peak: RBW/VBW: 1MHz/3MHz, DET: PK
Average: RBW/VBW: 1MHz/2KHz , DET: PK

3.5 RF Conducted Test Data

Test Date:	2025-04-22	Test By:	Ryan Zhang
Environment condition:	Temperature:26.3°C;RelativeHumidity:58%; ATM Pressure: 100.5kPa		

3.5.1 Maximum Conducted Peak Output Power

Mode	Test Frequency (MHz)	Peak Output Power(dBm)	Limit (dBm)	Verdict
802.11b	2412	13.605	30	Pass
	2442	13.523	30	Pass
	2462	13.293	30	Pass
802.11g	2412	15.735	30	Pass
	2442	15.481	30	Pass
	2462	15.282	30	Pass
802.11n20	2412	16.084	30	Pass
	2442	15.916	30	Pass
	2462	15.620	30	Pass
802.11n40	2422	11.427	30	Pass
	2437	11.328	30	Pass
	2452	11.363	30	Pass

4 Test Setup Photo

Please refer to the attachment 2505R50271E-A1Test Setup photo.

5 E.U.T Photo

Please refer to the attachment 2505R50271E-A1 External photo and 2505R50271E-A1 Internal photo.

---End of Report---