



FCC PART 15.247

TEST REPORT

For

Quanzhou Tesunho Electronics Co., Ltd

NO.605 BLDG1, 269 TIYU STR., FZ, Quanzhou, 362000 China

FCC ID: 2AKS9TM981

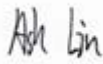
Report Type: Original Report	Product Name: Mobile PoC Radio
Report Number:	2507W20891E-RF-01
Report Date:	2025-12-16
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TABLE OF CONTENTS

REPORT REVISION HISTORY.....	4
GENERAL INFORMATION.....	5
PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT)	5
OBJECTIVE	5
TEST METHODOLOGY	5
MEASUREMENT UNCERTAINTY.....	6
SYSTEM TEST CONFIGURATION.....	7
TEST MODE AND VOLTAGE.....	7
DESCRIPTION OF TEST CONFIGURATION	7
EQUIPMENT MODIFICATIONS	7
★EUT EXERCISE SOFTWARE	7
DUTY CYCLE	8
SUPPORT EQUIPMENT LIST AND DETAILS	9
EXTERNAL I/O CABLE.....	9
BLOCK DIAGRAM OF TEST SETUP	9
SUMMARY OF TEST RESULTS	11
TEST EQUIPMENT LIST	12
FCC §15.203 - ANTENNA REQUIREMENT.....	13
APPLICABLE STANDARD	13
ANTENNA CONNECTOR CONSTRUCTION	13
FCC §15.209, §15.205 & §15.247(d) - SPURIOUS EMISSIONS.....	14
APPLICABLE STANDARD	14
EUT SETUP	14
EMI TEST RECEIVER & SPECTRUM ANALYZER SETUP	16
TEST PROCEDURE	16
RESULT & MARGIN CALCULATION.....	17
TEST DATA	18
FCC §15.247(a) (2) – 6 dB EMISSION BANDWIDTH.....	90
APPLICABLE STANDARD	90
EUT SETUP	90
TEST PROCEDURE	90
TEST DATA	91
FCC §15.247(b) (3) - MAXIMUM CONDUCTED OUTPUT POWER.....	94
APPLICABLE STANDARD	94
EUT SETUP	94
TEST PROCEDURE	94
TEST DATA	95
FCC §15.247(d) – 100 kHz BANDWIDTH OF FREQUENCY BAND EDGE.....	96
APPLICABLE STANDARD	96
EUT SETUP	96
TEST PROCEDURE	96
TEST DATA	96
FCC §15.247(e) - POWER SPECTRAL DENSITY	99
APPLICABLE STANDARD	99
EUT SETUP	99
TEST PROCEDURE	99

TEST DATA	100
EUT PHOTOGRAPHS	103
TEST SETUP PHOTOGRAPHS	104

REPORT REVISION HISTORY

Number of Revisions	Report No.	Version	Issue Date	Description
0	2507W20891E-RF-01	R1V1	2025-12-16	Initial Release

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Applicant:	Quanzhou Tesunho Electronics Co., Ltd
Product Name:	Mobile PoC Radio
Tested Model:	TM981
Series Model(s):	TM982, TM983
Trade Mark:	TESUNHO
Power Supply:	DC 12V
Maximum Peak Conducted Output Power:	18.40 dBm
Frequency Range:	802.11b/g/n20: 2412-2462 MHz 802.11n40: 2422-2452 MHz
Modulation Technique:	802.11b:DSSS 802.11g/n:OFDM
Antenna Type:	ceramic antenna
★Maximum Antenna Gain:	1dBi
EUT Received Status:	Good
<i>Note:</i> 1. The Maximum Antenna Gain was declared by manufacturer. 2. The test model is identify with the series model except for the model name, please refer to declaration letter for more detail. 3. All measurement and test data in this report was gathered from production sample serial number: 38M2-10 (RF conducted), 38M2-2 (Conducted Emission and Radiated Spurious Emission) (Assigned by the BACL (Xiamen). The EUT supplied by the applicant was received on 2025-08-18).	

Objective

This report is prepared on behalf of *Quanzhou Tesunho Electronics Co., Ltd* in accordance with Part 2-Subpart J, Part 15-Subparts A and C of the Federal Communication Commission's rules.

The tests were performed in order to determine compliance with FCC Part 15, Subpart C, and section 15.203, 15.205, 15.209 and 15.247 rules.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2020, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

And KDB 558074 D01 15.247 Meas Guidance v05r02.

Test Facility

The test site used by Bay Area Compliance Laboratories Corp. (Xiamen) to collect test data is located on the Unit 102, No. 902 Meifeng South Road, Binhai West Avenue, Science and Technology Innovation Park, Torch High tech Zone XiaMen.

Bay Area Compliance Laboratories Corp. (Xiamen) Lab is accredited to ISO/IEC 17025 by A2LA (Certificate Number: 7134.01) and the lab has been recognized as the FCC accredited lab under the KDB 974614 D01, the FCC Designation No. : CN1384.

Measurement Uncertainty

Item		U_{lab}
Radiated Spurious Emission	9kHz-30MHz	2.49 dB
	30MHz~200MHz	3.47 dB
	200MHz~1GHz	4.86 dB
	1GHz~6GHz	4.88 dB
	6GHz-18GHz	4.95dB
	18GHz~40GHz	4.45 dB
Occupied Channel Bandwidth		2%
Transmitter Conducted Power(Conducted RF power)		± 1.49 dB
Power Spectral Density		2.52dB
Duty Cycle		1%
Temperature		$\pm 1^{\circ}\text{C}$
Humidity		$\pm 5\%$
Supply voltages		$\pm 0.4\%$

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.

SYSTEM TEST CONFIGURATION

Test Mode and Voltage

The system was configured for testing in a typical mode (as normally used by a typical user).	
Test mode:	Test mode 1: Transmitting
Test voltage:	DC 12V

Description of Test Configuration

For 802.11b, 802.11g, 802.11n-HT20, 802.11n-HT40 mode, 11 channels are provided to testing:

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

For 802.11b, 802.11g, 802.11n-HT20 mode, EUT was tested with Channel 1, 6 and 11.
For 802.11n-HT40 mode, EUT was tested with Channel 3, 6 and 9.

Equipment Modifications

No modification was made to the EUT tested.

★EUT Exercise Software

Wi-Fi test in the engineer mode.

RF Test Tool: iwpriv

The device was tested with the worst case was performed as below:

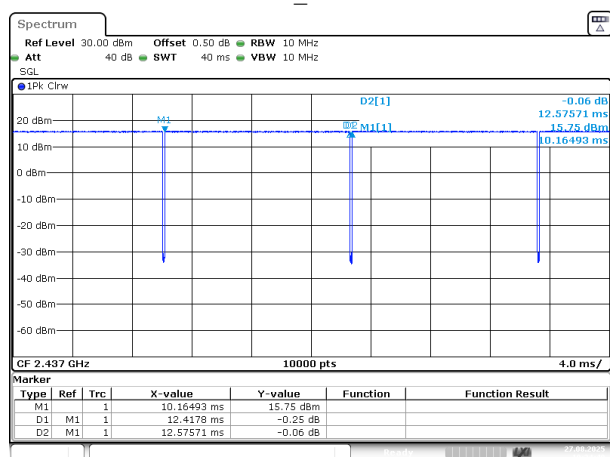
Test Modes	Test Channels	Test Frequency	Data rate	Power Level Setting
802.11b	Lowest	2412	1Mbps	46
	Middle	2437	1Mbps	46
	Highest	2462	1Mbps	46
802.11g	Lowest	2412	6Mbps	44
	Middle	2437	6Mbps	44
	Highest	2462	6Mbps	44
802.11n ht20	Lowest	2412	MCS0	44
	Middle	2437	MCS0	44
	Highest	2462	MCS0	44
802.11n ht40	Lowest	2422	MCS0	40
	Middle	2437	MCS0	40
	Highest	2452	MCS0	40

Pre-scan with all the data rates, the above data rate is the worst case for Wi-Fi test.

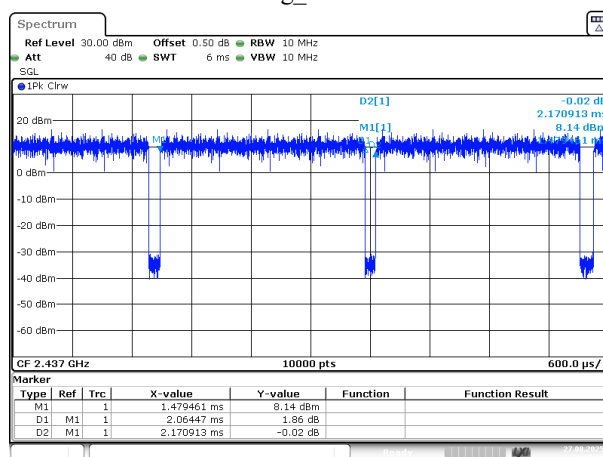
Duty Cycle

Test Mode:		Transmitting		Test Engineer:		Braylon Ma	
Test Date:		2025-08-27		Test Voltage:		DC 12V	
Environment:		Temp.: 24.6°C; Humi.: 50%; Atm :100.1kPa					
Modes	Ton (ms)	Ton+off (ms)	Duty Cycle (%)	1/T (Hz)	Duty Factor (dB)	VBW Setting (kHz)	
802.11b	12.418	12.576	98.74	/	/	0.01	
802.11g	2.064	2.171	95.07	484	0.22	0.50	
802.11n ht20	2.064	2.233	92.43	484	0.34	0.50	
802.11n ht40	2.064	2.179	94.72	484	0.24	0.50	

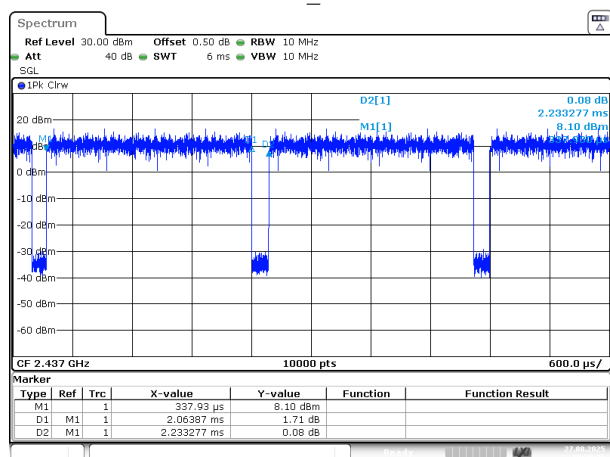
802.11b_2437MHz



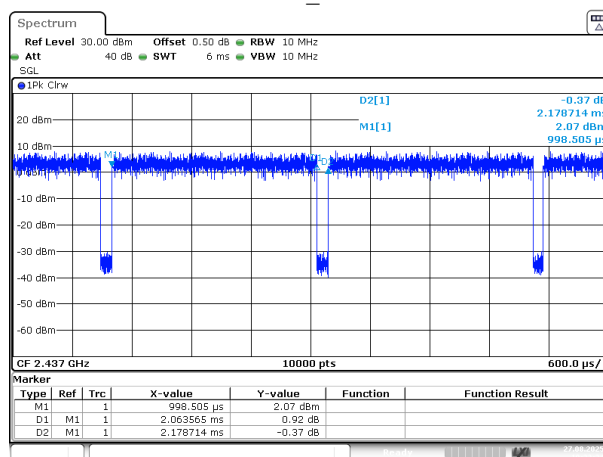
802.11g_2437MHz



802.11n20_2437MHz



802.11n40_2437MHz



Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
Lenovo	Laptop	T480	PF1P5K4F
MAISHENG	DC source	N-606DS	2023115703
Quanzhou Tesunho Electronics Co., Ltd	GMRS Radio	SC02	Unknown

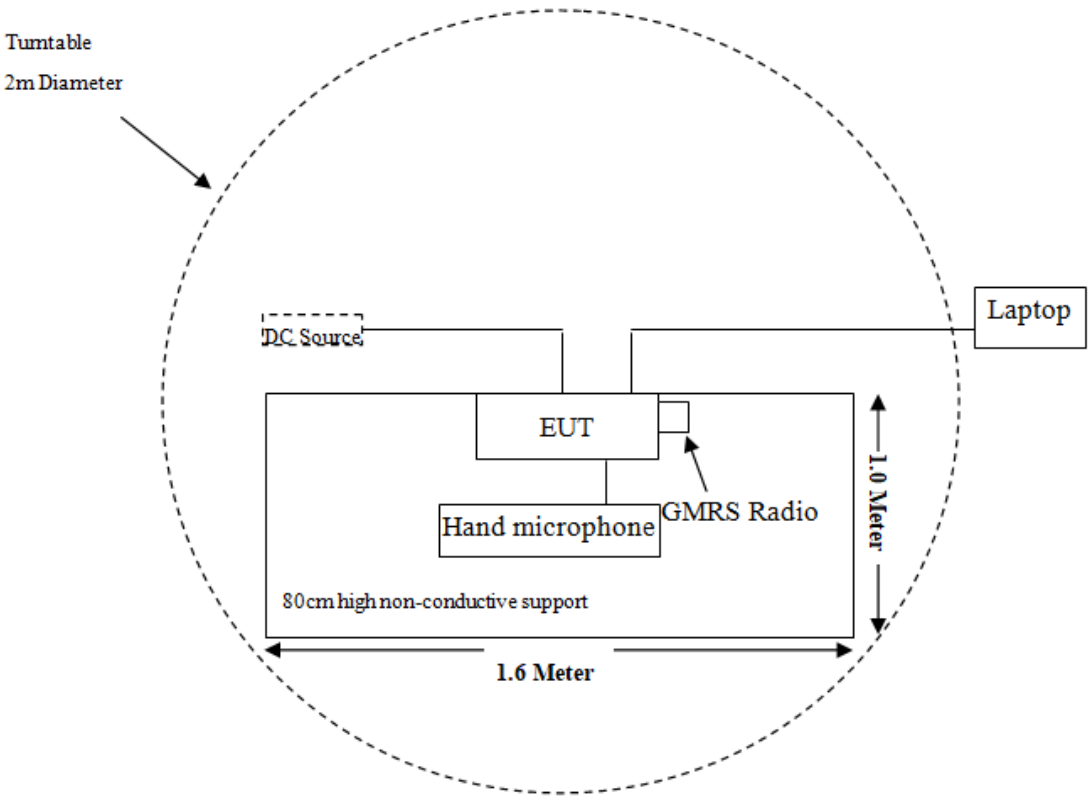
External I/O Cable

Cable Description	Length (m)	From Port	To
Power cable	10	EUT	DC source
USB Cable	10	EUT	Laptop

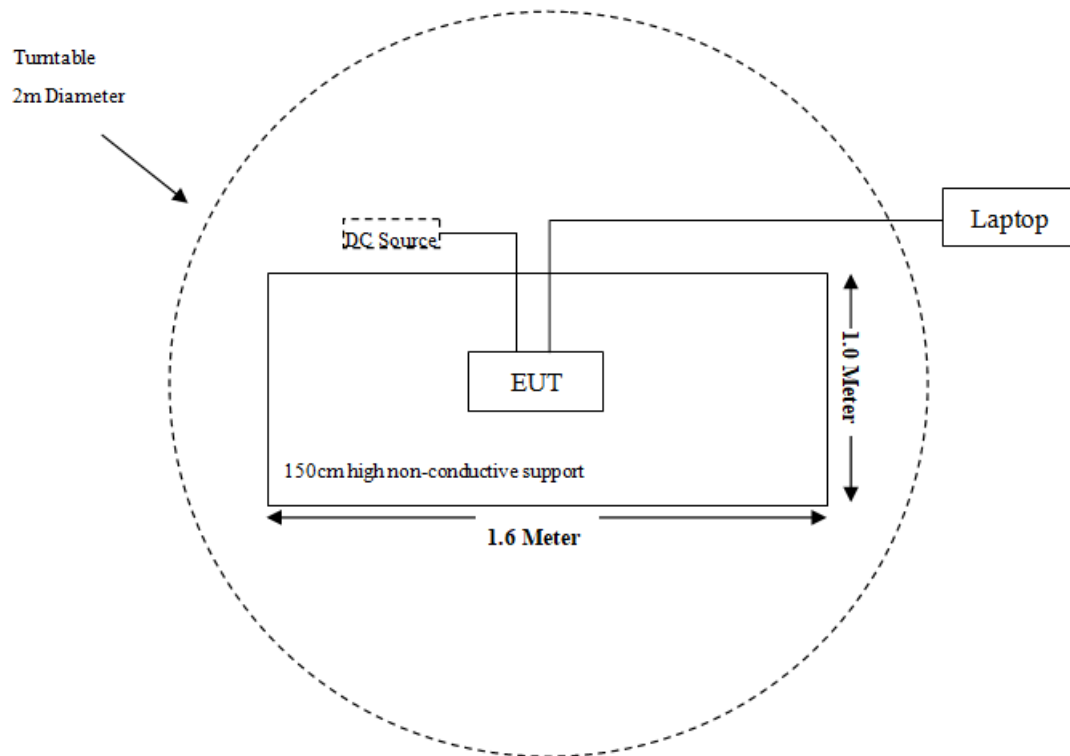
Block Diagram of Test Setup

Radiated Spurious Emission:

Below 1GHz



Above 1GHz



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§15.203	Antenna Requirement	Compliance
§15.207 (a)	AC Line Conducted Emissions	Not Applicable (Note 1)
§15.205, §15.209, §15.247(d)	Spurious Emissions	Compliance
§15.247 (a)(2)	6 dB Emission Bandwidth	Compliance
§15.247(b)(3)	Maximum Conducted Output Power	Compliance
§15.247(d)	100 kHz Bandwidth of Frequency Band Edge	Compliance
§15.247(e)	Power Spectral Density	Compliance

Note 1: The device is power by DC source.

TEST EQUIPMENT LIST

Test Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due Date
Radiated Emissions Below 1GHz					
EMI Test Receiver	Rohde & Schwarz	ESR	103103	2025/2/20	2026/2/19
Loop Antenna	Rohde & Schwarz	HFH2-Z2	830749/001	2023/7/27	2026/7/26
Antenna	Sunol Sciences	JB6	A122022-5	2023/7/27	2026/7/26
Amplifier	Sonoma	310B	120903	2025/2/20	2026/2/19
Coaxial Cable	XINHANGWEIBO	XH400T-N-4M	CC002	2025/2/20	2026/2/19
Coaxial Cable	XINHANGWEIBO	XH460B-N-2M	CC006	2025/2/20	2026/2/19
Coaxial Cable	XINHANGWEIBO	XH460B-N-12M	CC007	2025/2/20	2026/2/19
Coaxial Cable	XINHANGWEIBO	HFH2-CC	335.3609	2025/2/20	2026/2/19
Test Software	Audix	E3	18621a	N/A	N/A
Radiated Emissions Above 1 GHz					
Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102051	2025/2/20	2026/2/19
Filter Switch Unit	Decentest	DT7220FSU	DS79904	2025/2/21	2026/2/20
Multiplex Switch Test Control Set	Decentest	DT7220SCU	DS79901	2025/2/21	2026/2/20
Horn Antenna	EMCO	3115	9002-3355	2024/11/19	2027/11/18
Preamplifier	GLOBAL	1313-A100M18G	4121301	2025/1/16	2026/1/15
Coaxial Cable	XINHANGWEIBO	XH800A-N-6M	CC003	2025/2/20	2026/2/19
Coaxial Cable	XINHANGWEIBO	XH800A-N-1M	CC005	2025/2/20	2026/2/19
Horn Antenna	EMCO	3116	9407-2232	2023/7/31	2026/7/30
Preamplifier	A.H.Systems	PAM-1840	200	2025/2/20	2026/2/19
Coaxial Cable	XINHANGWEIBO	XH360A-2.92-3M	CC008	2025/2/20	2026/2/19
Coaxial Cable	XINHANGWEIBO	XH360A-2.92-1M	CC009	2025/2/20	2026/2/19
Test Software	Audix	E3	18621a	N/A	N/A
RF Conducted Test					
Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102051	2025/2/20	2026/2/19
USB Wideband Power Sensor	Boonton	55318	8934	2025/9/8	2026/9/7
Test Software	JD	JDAutoTestSystem	1.0.0.3813	N/A	N/A

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Xiamen) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

FCC §15.203 - ANTENNA REQUIREMENT

Applicable Standard

According to § 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator 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 user of a standard antenna jack or electrical connector is prohibited. The structure and application of the EUT were analyzed to determine compliance with section §15.203 of the rules. §15.203 state that the subject device must meet the following criteria:

- a. Antenna must be permanently attached to the unit.
- b. Antenna must use a unique type of connector to attach to the EUT.
- c. Unit must be professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

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

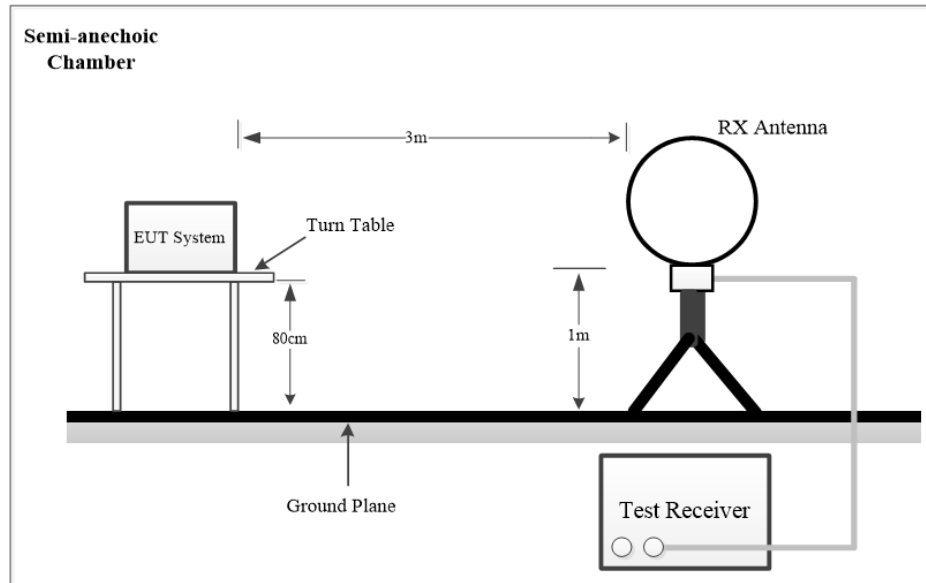
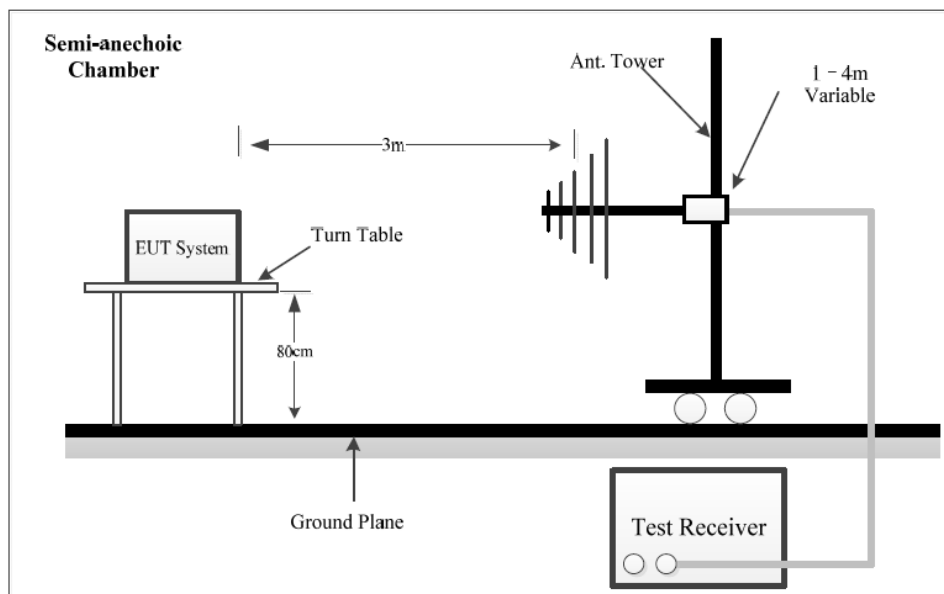
Antenna Connector Construction

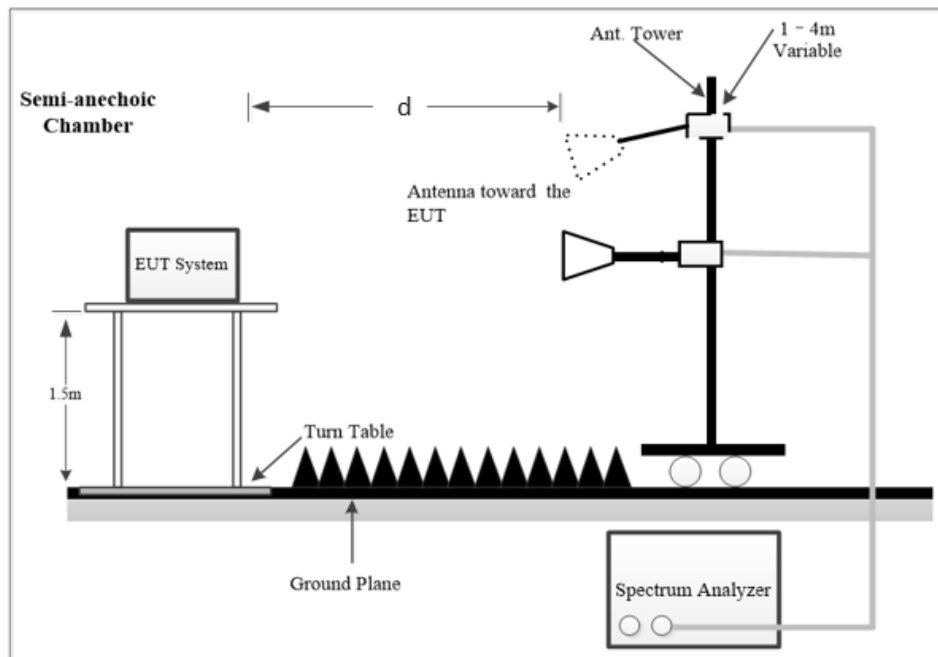
The EUT has one ceramic antenna arrangement for WIFI, which was permanently attached and the antenna gain is 1dBi, fulfill the requirement of this section. Please refer to the EUT photos.

Result: Compliance

FCC §15.209, §15.205 & §15.247(d) - SPURIOUS EMISSIONS**Applicable Standard**

FCC §15.247 (d); §15.209; §15.205;

EUT Setup**9 kHz-30MHz****Below 1 GHz:**

Above 1GHz:

The radiated emission tests using the setup accordance with the ANSI C63.10-2020. The specification used was the FCC 15.209, and FCC 15.247 limits.

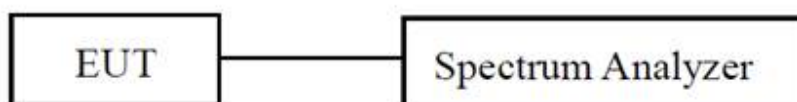
NOTE:

d is testing distance;

For Radiated Emission test (1GHz-18GHz) and Bandedge Emission test, which was performed at 3 m distance.

For Radiated Emission test (18GHz-25GHz), which was performed at 1.5 m distance, according to ANSI C63.10 - 2020, the test result shall be extrapolated to the specified distance using an extrapolation Factor of 20dB/decade from 3m to 1.5m.

Distance extrapolation Factor = $20 \log (\text{specific distance [3m]}/\text{test distance [1.5m]})$ dB= 6dB

Antenna-port conducted emission:

Note: A short RF cable with low cable loss connected to the EUT antenna port. The insert loss of this RF cable was TDF into the setting of test equipment:

TDF = Insert loss of RF cable

★ The Insert loss was declared by manufacturer.

EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 9 kHz to 25 GHz.

During the radiated emission test, the EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

Below 1GHz:

Frequency Range	RBW	VBW	Measurement
9 kHz – 150 kHz	300Hz	1 kHz	PK
	200Hz	/	QP
150 kHz – 30 MHz	10 kHz	30 kHz	PK
	9kHz	/	QP
30 MHz – 1000 MHz	100 kHz	300 kHz	PK
	120kHz	/	QP

Above 1GHz:

Pre-scan:

Duty Cycle	RBW	VBW	Measurement	Detector
Any	1MHz	3MHz	PK	PK
>98%	1MHz	5kHz	AV	PK
<98%	1MHz	1/T, not less than 5kHz	AV	PK

Final measurement for emission identified during the pre-scan:

Duty Cycle	RBW	VBW	Measurement	Detector
Any	1MHz	3MHz	PK	PK
>98%	1MHz	10Hz	AV	PK
<98%	1MHz	1/T	AV	PK

Note: T is minimum transmission duration

Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

For each measurement antenna alignment, the EUT shall be rotated through 0° to 360° on a turntable. The report shall list the six emissions with the smallest margin relative to the limit, for each of the three antenna orientations (parallel, perpendicular, and ground parallel) unless the margin is greater than 20 dB, then the following statement shall be made: “all emissions were greater than 20 dB below the limit.”

Below 1GHz, if the measured peak level of the emissions that the measuring receiver reading level plus corrected factor is at least 6 dB below the QP emission limit, there's no need to record the measured QP level of the emissions in the report.

Above 1GHz, if the measured peak level of the emissions that the measuring receiver reading level plus corrected factor is below the AV emission limit, there's no need to record the measured AV level of the emissions in the report.

Antenna-port conducted emission:

Connect the primary antenna port through an attenuator to the spectrum analyzer input; in the results, account for all losses between the unlicensed wireless device output and the spectrum analyzer. The frequency range of testing shall span 30 MHz to 10 times the operating frequency and this may be done in a single sweep or, to aid resolution, across a number of sweeps. The resolution bandwidth shall be 100 kHz, video bandwidth 300 kHz, and a coupled sweep time with a peak detector.

The limit is based on the highest in-band level across all channels measured using the same instrument settings (resolution bandwidth of 100 kHz, video bandwidth of 300 kHz, and a coupled sweep time with a peak detector). To help clearly demonstrate compliance a display line may be set at the required offset (typically 20 dB) below the highest in-band level. Where the highest in-band level is not clearly identified in the out-of-band measurements a separate spectral plot showing the in-band level shall be provided. When conducted measurements cannot be made (for example a device with integrated, non-removable antenna) radiated measurements shall be used. The reference level for determining the limit shall be established by maximizing the field strength from the highest power channel and measuring using the resolution and video bandwidth settings and peak detector as described above. The field strength limit for spurious emissions outside of restricted-bands shall then be set at the required offset (typically 20 dB) below the highest in-band level. Radiated measurements will follow the standards measurement procedures described in Clause 6 with the exception that the resolution bandwidth shall be 100 kHz, video bandwidth 300 kHz, and a coupled sweep time with a peak detector. Note that use of wider measurement bandwidths are acceptable for measuring the spurious emissions provided that the peak detector is used and that the measured value of spurious emissions are compared to the highest in-band level measured with the 100 kHz / 300 kHz bandwidth settings to determine compliance.

Result & Margin Calculation

The Result is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain from the Meter Reading. The basic equation is as follows:

For 9 kHz to 18GHz Radiated emission test and Bandedge emissions test

$$\text{Factor (dB/m)} = \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} - \text{Amplifier Gain (dB)}$$

$$\text{For 18GHz to 25GHz Radiated emission test Factor (dB/m)} = \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} - \text{Amplifier Gain (dB)} - \text{Extrapolation factor (dB)}$$

$$\text{Extrapolation factor} = 6\text{dB (distance} = 1.5\text{m)}$$

$$\text{Result (dB}\mu\text{V/m)} = \text{Reading (dB}\mu\text{V)} + \text{Factor (dB/m)}$$

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:

$$\text{Margin (dB)} = \text{Limit (dB}\mu\text{V/m)} - \text{Result (dB}\mu\text{V/m)}$$

Test Data

Please refer to the below table and plots.

Frequency Range:	Below 1 GHz	Above 1 GHz	Antenna-port emission conducted
Temperature:	25.6 °C	25.6 °C	24.6 °C
Relative Humidity:	61 %	61 %	50 %
ATM Pressure:	100.1 kPa	100.1 kPa	100.1 kPa
Test Date:	2025-09-23	2025-09-23	2025-08-27
Test Engineer:	Wlif Wu	Wlif Wu	Braylon Ma

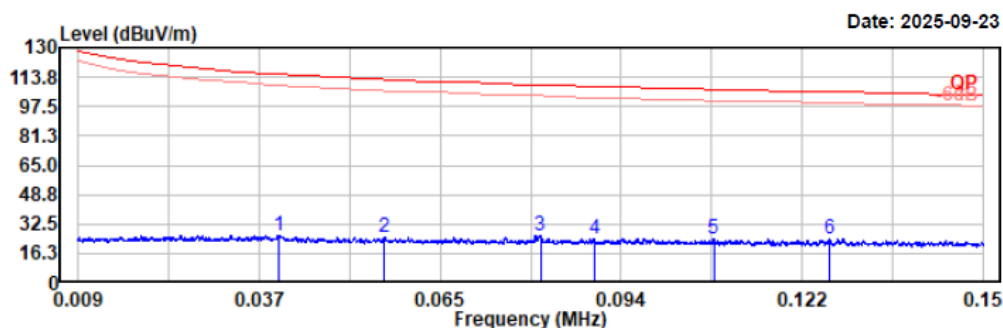
1) 9 kHz~30MHz

Pre-scan in parallel, ground-parallel and perpendicular of orientation of loop antenna, parallel is worst case.

Note: The maximum output power mode: WiFi 802.11n20 low channel was tested.

Project No.: 2507W20891E-RF
 Test Mode: 802.11n20 2412MHz
 EUT Model: TM981
 Test distance: 3m

Temp/Humi/ATM: 25.6°C/61%/100.1kPa
 Tested by: Wlif Wu
 Power Source: DC 12V

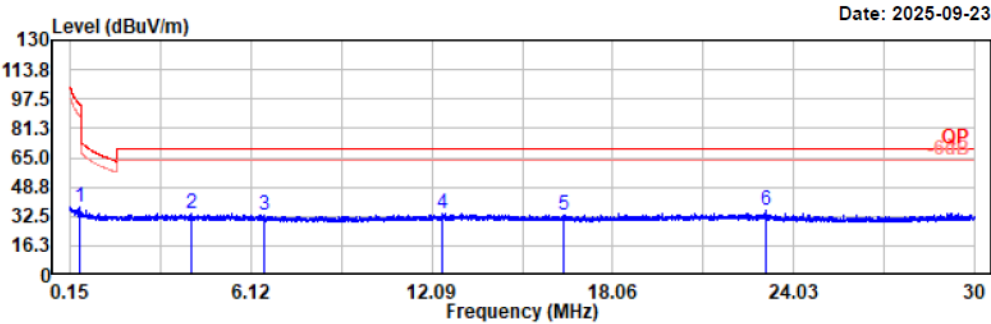


Condition: PK RBW:300Hz VBW:1kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Remark
0.040	6.42	19.91	26.33	115.53	89.20	Peak
0.057	5.42	19.91	25.33	112.55	87.22	Peak
0.081	6.00	19.72	25.72	109.44	83.72	Peak
0.089	4.59	19.80	24.39	108.58	84.19	Peak
0.108	4.24	19.73	23.97	106.94	82.97	Peak
0.126	4.38	19.73	24.11	105.59	81.48	Peak

Project No.: 2507W20891E-RF
Test Mode: 802.11n20 2412MHz
EUT Model: TM981
Test distance: 3m

Temp/Humi/ATM: 25.6°C/61%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



Condition: PK RBW:10kHz VBW:30kHz SWT:auto

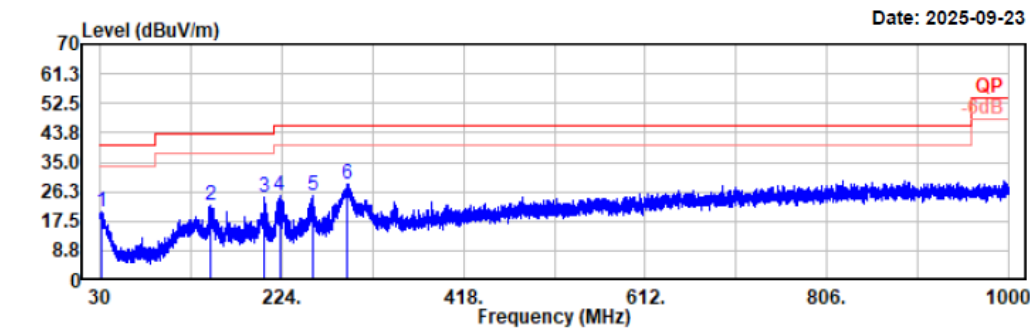
Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Remark
0.451	17.63	19.79	37.42	94.51	57.09	Peak
4.132	14.03	19.75	33.78	69.54	35.76	Peak
6.529	13.25	19.74	32.99	69.54	36.55	Peak
12.433	14.34	19.73	34.07	69.54	35.47	Peak
16.436	13.56	19.86	33.42	69.54	36.12	Peak
23.132	15.54	20.17	35.71	69.54	33.83	Peak

2) 30MHz -1GHz

Note: The maximum output power mode: WiFi 802.11n20 low channel was tested.

Project No.: 2507W20891E-RF
Test Mode: 802.11n20 2412MHz
EUT Model: TM981
Test distance: 3m

Temp/Humi/ATM: 25.6°C/61%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 12V

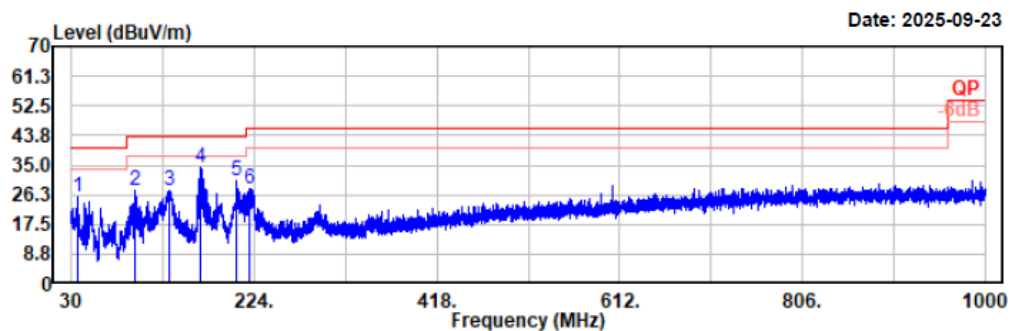


Condition: PK RBW:100kHz VBW:300kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
32.04	26.62	-6.42	20.20	40.00	19.80	Horizontal	Peak
147.86	33.42	-11.06	22.36	43.50	21.14	Horizontal	Peak
204.89	36.55	-12.06	24.49	43.50	19.01	Horizontal	Peak
221.58	37.59	-12.60	24.99	46.00	21.01	Horizontal	Peak
257.37	36.18	-11.22	24.96	46.00	21.04	Horizontal	Peak
293.16	37.85	-9.28	28.57	46.00	17.43	Horizontal	Peak

Project No.: 2507W20891E-RF
Test Mode: 802.11n20 2412MHz
EUT Model: TM981
Test distance: 3m

Temp/Humi/ATM: 25.6°C/61%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 12V



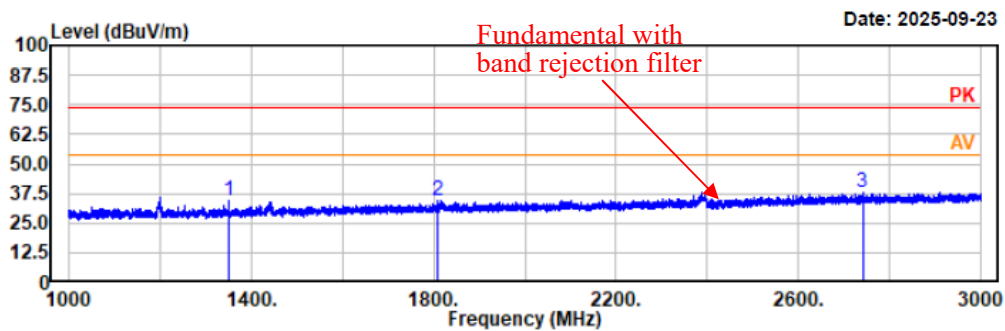
Condition: PK RBW:100kHz VBW:300kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
36.31	34.39	-8.96	25.43	40.00	14.57	Vertical	Peak
98.00	42.79	-15.50	27.29	43.50	16.21	Vertical	Peak
134.28	37.88	-10.27	27.61	43.50	15.89	Vertical	Peak
166.96	46.25	-11.78	34.47	43.50	9.03	Vertical	Peak
205.76	42.61	-12.16	30.45	43.50	13.05	Vertical	Peak
219.73	40.54	-12.65	27.89	46.00	18.11	Vertical	Peak

3) 1GHz~3GHz

Project No.: 2507W20891E-RF
Test Mode: 802.11b 2412MHz
EUT Model: TM981
Test distance: 3m

Temp/Humi/ATM: 25.6°C/61%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 12V

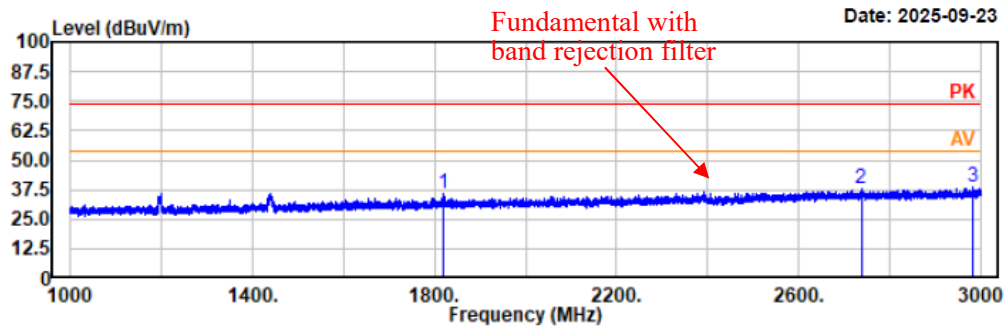


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
1350.00	49.50	-14.89	34.61	74.00	39.39	horizontal	Peak
1808.00	47.47	-13.20	34.27	74.00	39.73	horizontal	Peak
2741.20	47.55	-9.96	37.59	74.00	36.41	horizontal	Peak

Project No.: 2507W20891E-RF
Test Mode: 802.11b 2412MHz
EUT Model: TM981
Test distance: 3m

Temp/Humi/ATM: 25.6°C/61%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 12V

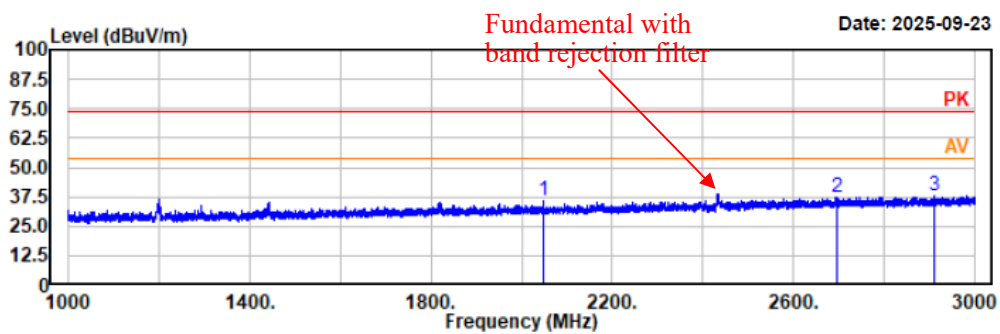


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
1818.60	49.16	-13.17	35.99	74.00	38.01	vertical	Peak
2737.60	47.89	-9.96	37.93	74.00	36.07	vertical	Peak
2983.40	47.35	-9.03	38.32	74.00	35.68	vertical	Peak

Project No.: 2507W20891E-RF
Test Mode: 802.11b 2437MHz
EUT Model: TM981
Test distance: 3m

Temp/Humi/ATM: 25.6°C/61%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 12V



Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2049.60	48.49	-12.43	36.06	74.00	37.94	horizontal	Peak
2696.20	47.18	-10.02	37.16	74.00	36.84	horizontal	Peak
2910.00	47.64	-9.48	38.16	74.00	35.84	horizontal	Peak

Project No.: 2507W20891E-RF

Test Mode: 802.11b 2437MHz

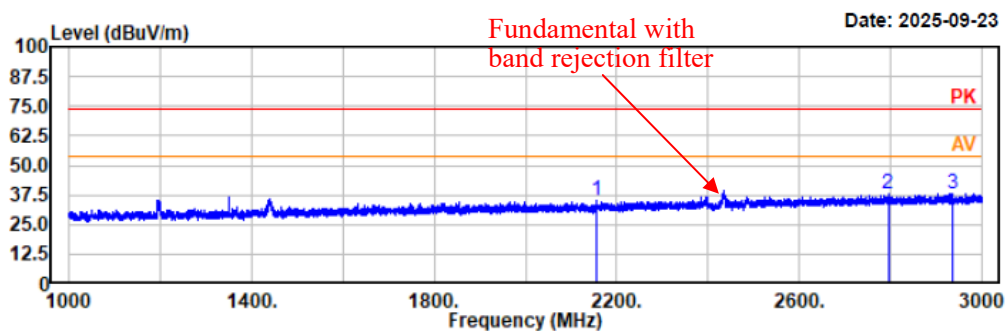
EUT Model: TM981

Test distance: 3m

Temp/Humi/ATM: 25.6°C/61%/100.1kPa

Tested by: Wlif Wu

Power Source: DC 12V



Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2156.60	47.21	-12.11	35.10	74.00	38.90	vertical	Peak
2794.80	47.44	-9.80	37.64	74.00	36.36	vertical	Peak
2936.40	47.29	-9.30	37.99	74.00	36.01	vertical	Peak

Project No.: 2507W20891E-RF

Test Mode: 802.11b 2462MHz

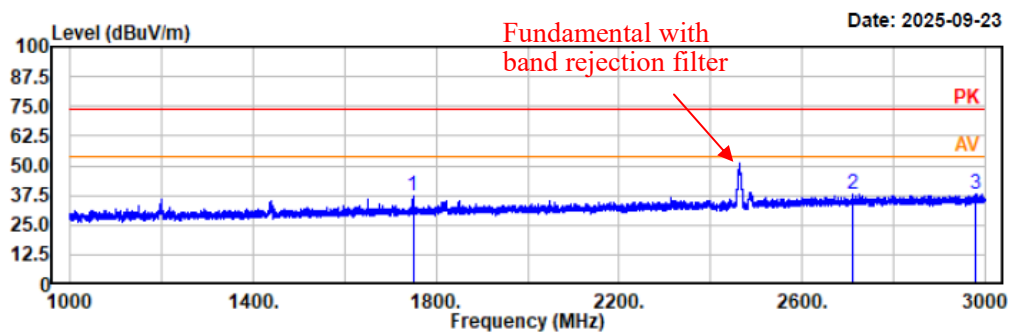
EUT Model: TM981

Test distance: 3m

Temp/Humi/ATM: 25.6°C/61%/100.1kPa

Tested by: Wlif Wu

Power Source: DC 12V

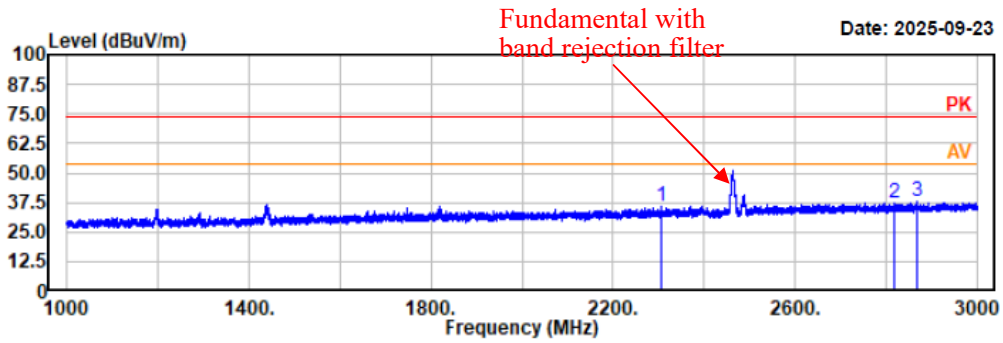


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
1749.40	50.98	-13.50	37.48	74.00	36.52	horizontal	Peak
2711.40	47.71	-9.99	37.72	74.00	36.28	horizontal	Peak
2977.60	47.07	-9.06	38.01	74.00	35.99	horizontal	Peak

Project No.: 2507W20891E-RF
Test Mode: 802.11b 2462MHz
EUT Model: TM981
Test distance: 3m

Temp/Humi/ATM: 25.6°C/61%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 12V

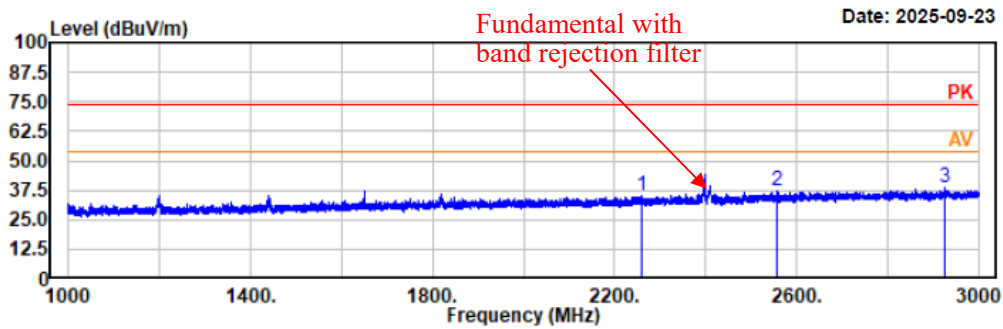


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2306.60	47.29	-11.41	35.88	74.00	38.12	vertical	Peak
2817.40	46.78	-9.73	37.05	74.00	36.95	vertical	Peak
2869.20	47.29	-9.60	37.69	74.00	36.31	vertical	Peak

Project No.: 2507W20891E-RF
Test Mode: 802.11g 2412MHz
EUT Model: TM981
Test distance: 3m

Temp/Humi/ATM: 25.6°C/61%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 12V

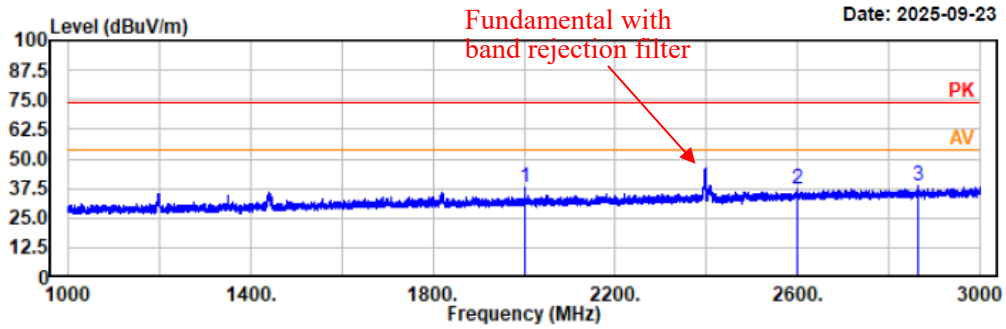


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2258.60	46.60	-11.73	34.87	74.00	39.13	horizontal	Peak
2558.00	47.58	-10.57	37.01	74.00	36.99	horizontal	Peak
2927.00	47.73	-9.37	38.36	74.00	35.64	horizontal	Peak

Project No.: 2507W20891E-RF
Test Mode: 802.11g 2412MHz
EUT Model: TM981
Test distance: 3m

Temp/Humi/ATM: 25.6°C/61%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 12V



Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2002.00	50.35	-12.55	37.80	74.00	36.20	vertical	Peak
2600.80	47.76	-10.40	37.36	74.00	36.64	vertical	Peak
2864.40	48.11	-9.60	38.51	74.00	35.49	vertical	Peak

Project No.: 2507W20891E-RF

Test Mode: 802.11g 2437MHz

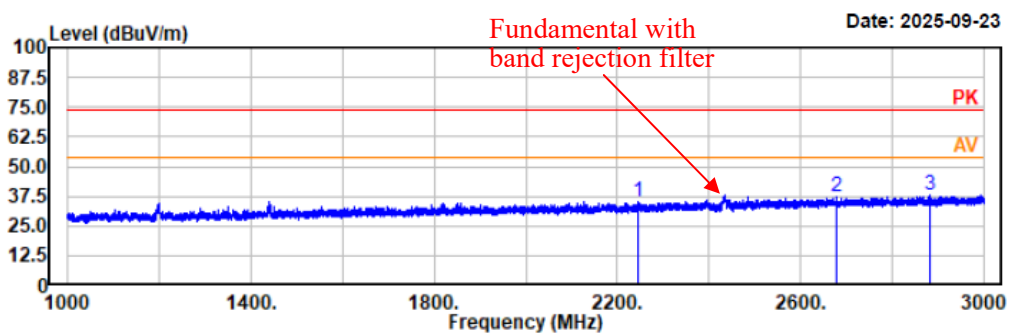
EUT Model: TM981

Test distance: 3m

Temp/Humi/ATM: 25.6°C/61%/100.1kPa

Tested by: Wlif Wu

Power Source: DC 12V

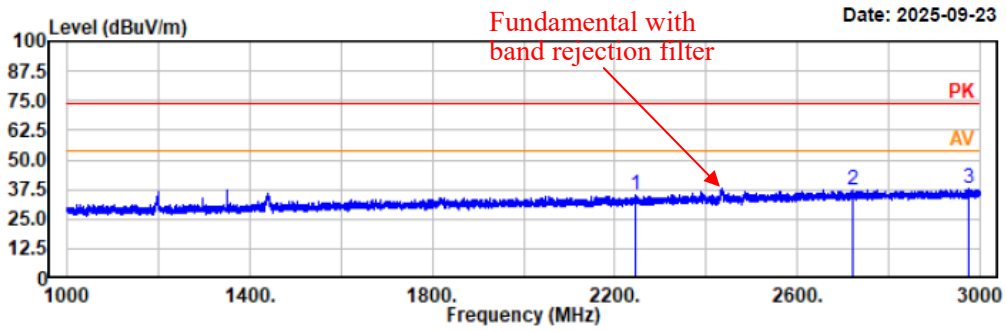


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2244.80	46.74	-11.80	34.94	74.00	39.06	horizontal	Peak
2678.40	47.21	-10.10	37.11	74.00	36.89	horizontal	Peak
2882.00	47.44	-9.59	37.85	74.00	36.15	horizontal	Peak

Project No.: 2507W20891E-RF
 Test Mode: 802.11g 2437MHz
 EUT Model: TM981
 Test distance: 3m

Temp/Humi/ATM: 25.6°C/61%/100.1kPa
 Tested by: Wlif Wu
 Power Source: DC 12V



Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2246.80	46.93	-11.80	35.13	74.00	38.87	vertical	Peak
2720.60	47.37	-9.98	37.39	74.00	36.61	vertical	Peak
2975.00	46.86	-9.07	37.79	74.00	36.21	vertical	Peak

Project No.: 2507W20891E-RF

Test Mode: 802.11g 2462MHz

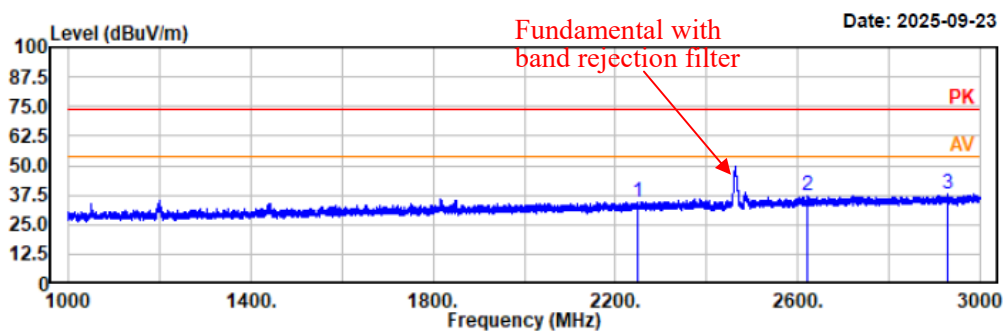
EUT Model: TM981

Test distance: 3m

Temp/Humi/ATM: 25.6°C/61%/100.1kPa

Tested by: Wlif Wu

Power Source: DC 12V

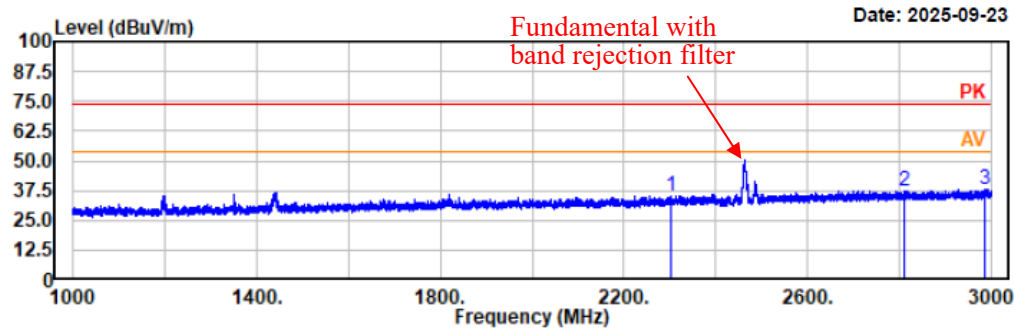


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2247.60	46.49	-11.79	34.70	74.00	39.30	horizontal	Peak
2620.00	47.58	-10.31	37.27	74.00	36.73	horizontal	Peak
2930.60	47.21	-9.34	37.87	74.00	36.13	horizontal	Peak

Project No.: 2507W20891E-RF
Test Mode: 802.11g 2462MHz
EUT Model: TM981
Test distance: 3m

Temp/Humi/ATM: 25.6°C/61%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 12V

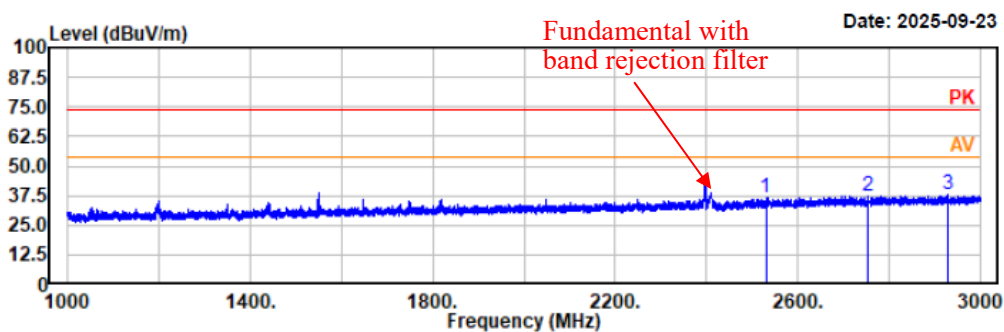


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2303.80	46.72	-11.41	35.31	74.00	38.69	vertical	Peak
2812.00	47.31	-9.75	37.56	74.00	36.44	vertical	Peak
2985.20	46.99	-9.02	37.97	74.00	36.03	vertical	Peak

Project No.: 2507W20891E-RF
Test Mode: 802.11n20 2412MHz
EUT Model: TM981
Test distance: 3m

Temp/Humi/ATM: 25.6°C/61%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 12V

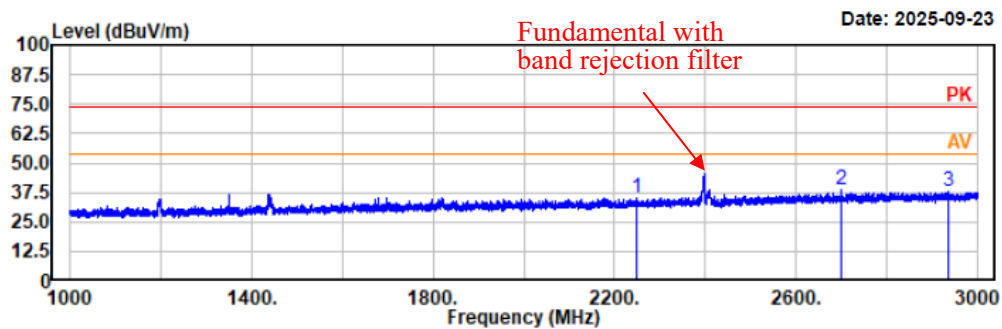


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2530.00	47.18	-10.64	36.54	74.00	37.46	horizontal	Peak
2752.80	47.13	-9.93	37.20	74.00	36.80	horizontal	Peak
2929.00	47.46	-9.35	38.11	74.00	35.89	horizontal	Peak

Project No.: 2507W20891E-RF
Test Mode: 802.11n20 2412MHz
EUT Model: TM981
Test distance: 3m

Temp/Humi/ATM: 25.6°C/61%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 12V

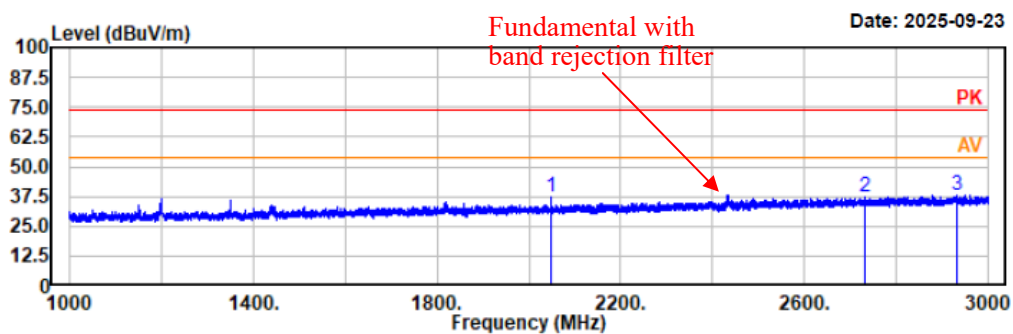


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2247.60	46.70	-11.79	34.91	74.00	39.09	vertical	Peak
2699.00	48.80	-10.00	38.80	74.00	35.20	vertical	Peak
2935.00	47.54	-9.31	38.23	74.00	35.77	vertical	Peak

Project No.: 2507W20891E-RF
Test Mode: 802.11n20 2437MHz
EUT Model: TM981
Test distance: 3m

Temp/Humi/ATM: 25.6°C/61%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 12V

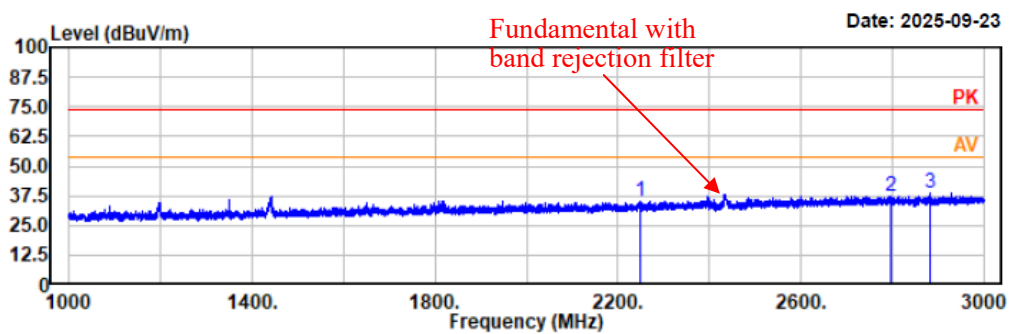


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2049.00	49.34	-12.43	36.91	74.00	37.09	horizontal	Peak
2730.80	47.56	-9.97	37.59	74.00	36.41	horizontal	Peak
2932.80	47.52	-9.32	38.20	74.00	35.80	horizontal	Peak

Project No.: 2507W20891E-RF
Test Mode: 802.11n20 2437MHz
EUT Model: TM981
Test distance: 3m

Temp/Humi/ATM: 25.6°C/61%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 12V

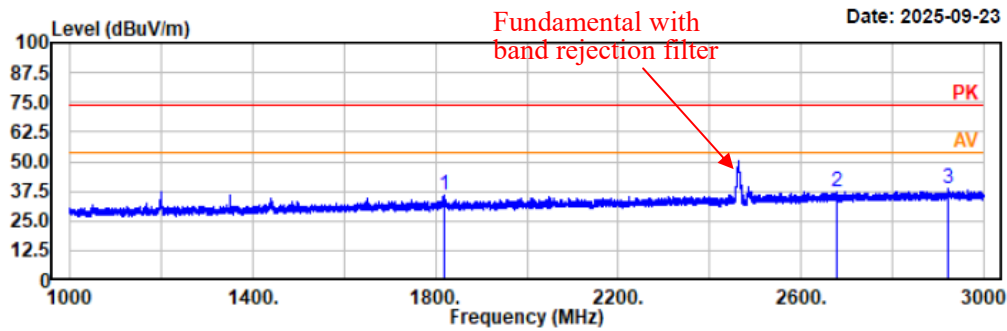


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2249.60	47.08	-11.79	35.29	74.00	38.71	vertical	Peak
2798.20	47.19	-9.80	37.39	74.00	36.61	vertical	Peak
2883.00	48.40	-9.58	38.82	74.00	35.18	vertical	Peak

Project No.: 2507W20891E-RF
Test Mode: 802.11n20 2462MHz
EUT Model: TM981
Test distance: 3m

Temp/Humi/ATM: 25.6°C/61%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 12V

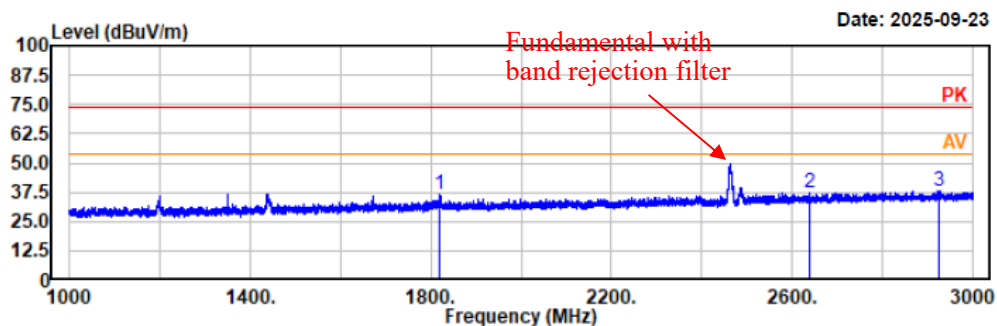


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
1818.60	49.33	-13.17	36.16	74.00	37.84	horizontal	Peak
2680.00	47.43	-10.08	37.35	74.00	36.65	horizontal	Peak
2921.60	48.07	-9.40	38.67	74.00	35.33	horizontal	Peak

Project No.: 2507W20891E-RF
Test Mode: 802.11n20 2462MHz
EUT Model: TM981
Test distance: 3m

Temp/Humi/ATM: 25.6°C/61%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 12V

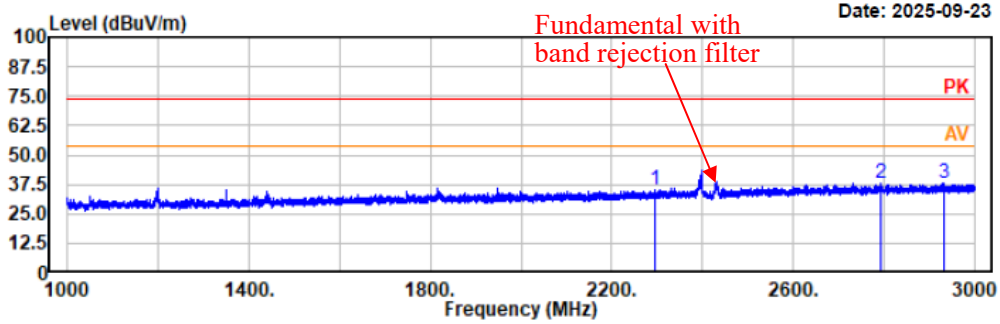


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
1818.20	50.06	-13.17	36.89	74.00	37.11	vertical	Peak
2640.80	47.82	-10.24	37.58	74.00	36.42	vertical	Peak
2924.00	47.41	-9.39	38.02	74.00	35.98	vertical	Peak

Project No.: 2507W20891E-RF
Test Mode: 802.11n40 2422MHz
EUT Model: TM981
Test distance: 3m

Temp/Humi/ATM: 25.6°C/61%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 12V

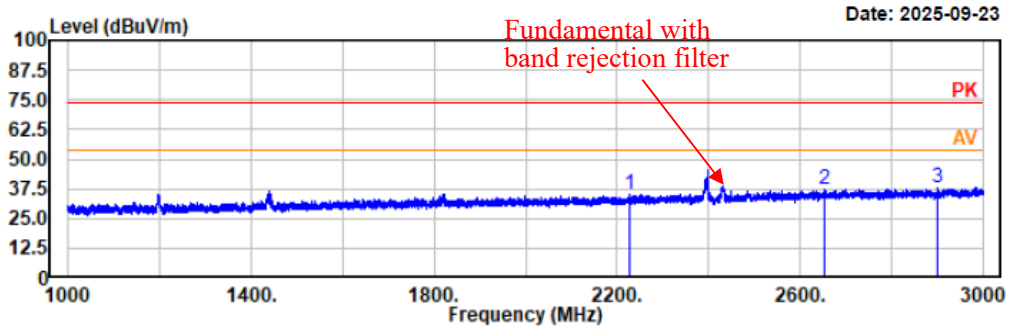


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2293.80	46.97	-11.47	35.50	74.00	38.50	horizontal	Peak
2793.20	47.76	-9.81	37.95	74.00	36.05	horizontal	Peak
2932.00	47.19	-9.33	37.86	74.00	36.14	horizontal	Peak

Project No.: 2507W20891E-RF
 Test Mode: 802.11n40 2422MHz
 EUT Model: TM981
 Test distance: 3m

Temp/Humi/ATM: 25.6°C/61%/100.1kPa
 Tested by: Wlif Wu
 Power Source: DC 12V



Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2227.60	46.97	-11.85	35.12	74.00	38.88	vertical	Peak
2651.80	47.18	-10.19	36.99	74.00	37.01	vertical	Peak
2899.40	47.39	-9.55	37.84	74.00	36.16	vertical	Peak

Project No.: 2507W20891E-RF

Test Mode: 802.11n40 2437MHz

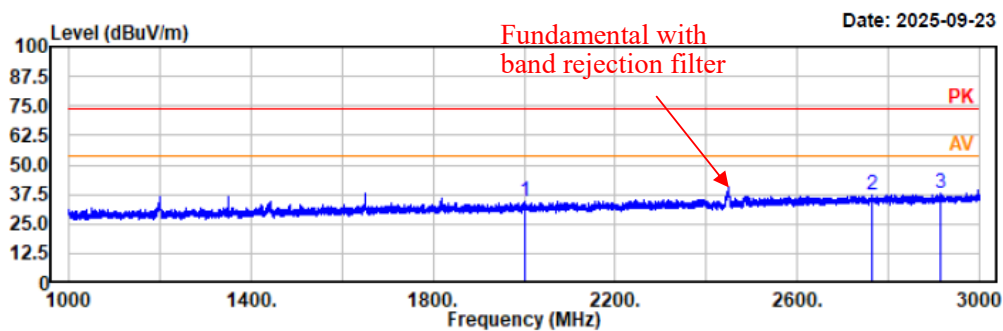
EUT Model: TM981

Test distance: 3m

Temp/Humi/ATM: 25.6°C/61%/100.1kPa

Tested by: Wlif Wu

Power Source: DC 12V

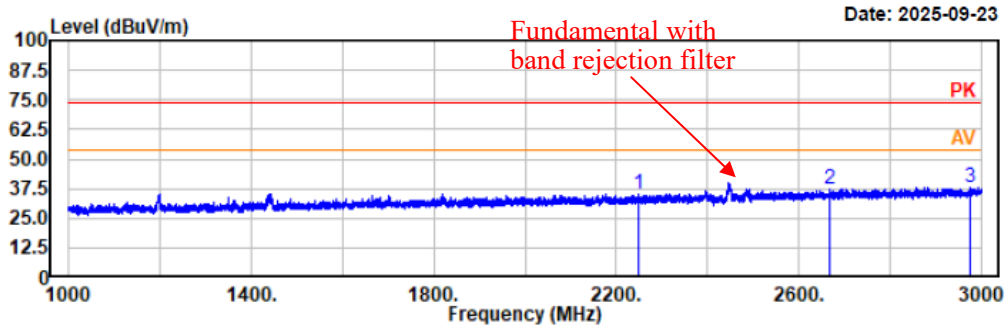


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2001.40	46.98	-12.55	34.43	74.00	39.57	horizontal	Peak
2766.00	47.04	-9.90	37.14	74.00	36.86	horizontal	Peak
2914.40	47.47	-9.45	38.02	74.00	35.98	horizontal	Peak

Project No.: 2507W20891E-RF
 Test Mode: 802.11n40 2437MHz
 EUT Model: TM981
 Test distance: 3m

Temp/Humi/ATM: 25.6°C/61%/100.1kPa
 Tested by: Wlif Wu
 Power Source: DC 12V

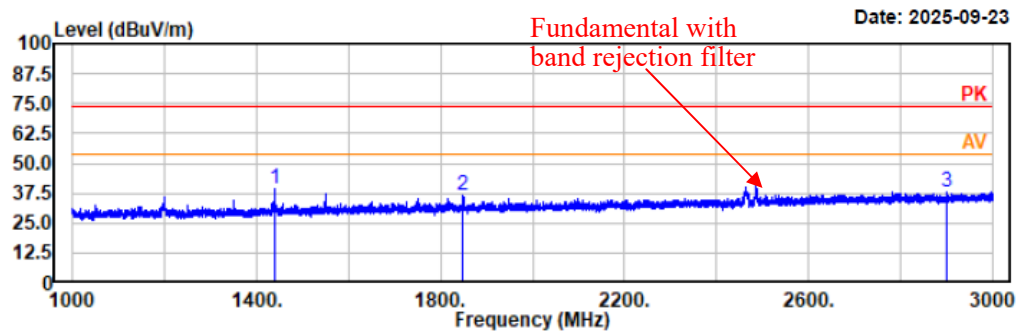


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2247.40	47.02	-11.80	35.22	74.00	38.78	vertical	Peak
2667.40	47.58	-10.13	37.45	74.00	36.55	vertical	Peak
2976.80	47.19	-9.06	38.13	74.00	35.87	vertical	Peak

Project No.: 2507W20891E-RF
Test Mode: 802.11n40 2452MHz
EUT Model: TM981
Test distance: 3m

Temp/Humi/ATM: 25.6°C/61%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 12V

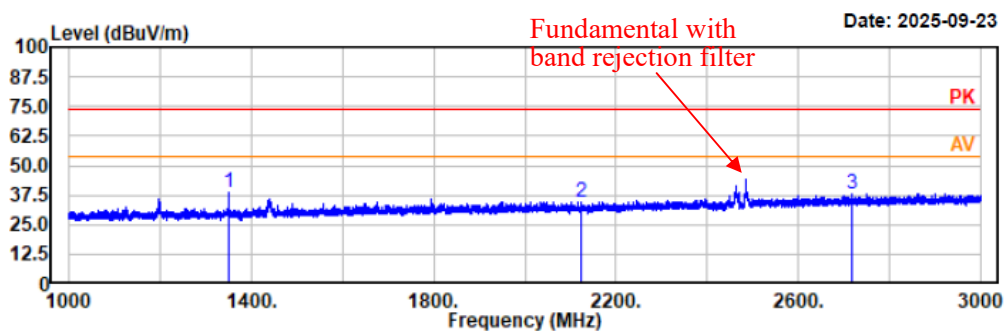


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
1440.00	53.99	-14.56	39.43	74.00	34.57	horizontal	Peak
1849.40	49.64	-13.09	36.55	74.00	37.45	horizontal	Peak
2901.80	47.40	-9.54	37.86	74.00	36.14	horizontal	Peak

Project No.: 2507W20891E-RF
Test Mode: 802.11n40 2452MHz
EUT Model: TM981
Test distance: 3m

Temp/Humi/ATM: 25.6°C/61%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 12V



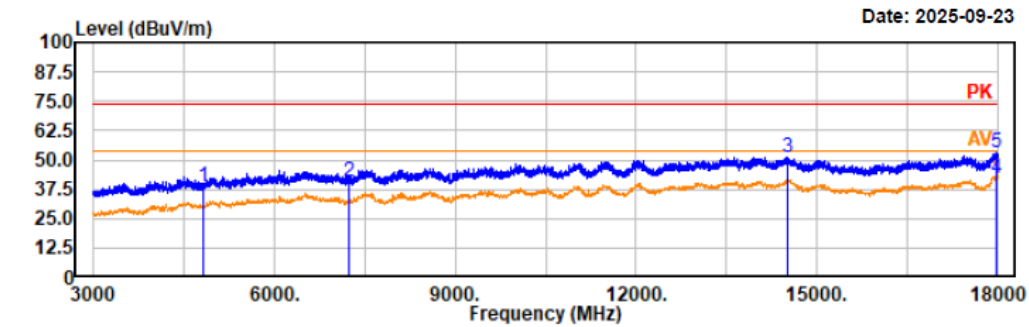
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
1350.20	53.21	-14.89	38.32	74.00	35.68	vertical	Peak
2123.00	46.82	-12.18	34.64	74.00	39.36	vertical	Peak
2716.60	47.95	-9.99	37.96	74.00	36.04	vertical	Peak

4) 3GHz~18GHz

Project No.: 2507W20891E-RF
Test Mode: 802.11b 2412MHz
EUT Model: TM981
Test distance: 3m

Temp/Humi/ATM: 25.6°C/61%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 12V



Trace: 1

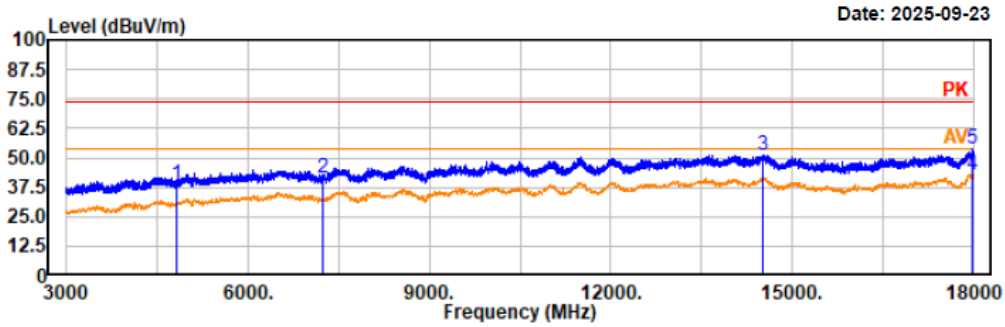
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4824.00	43.83	-5.26	38.57	74.00	35.43	horizontal	Peak
7236.00	43.16	-2.47	40.69	74.00	33.31	horizontal	Peak
14511.00	46.31	5.06	51.37	74.00	22.63	horizontal	Peak
17967.00	35.05	6.88	41.93	54.00	12.07	horizontal	Average
17967.00	46.24	6.88	53.12	74.00	20.88	horizontal	Peak

Project No.: 2507W20891E-RF
Test Mode: 802.11b 2412MHz
EUT Model: TM981
Test distance: 3m

Temp/Humi/ATM: 25.6°C/61%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 12V



Trace: 1

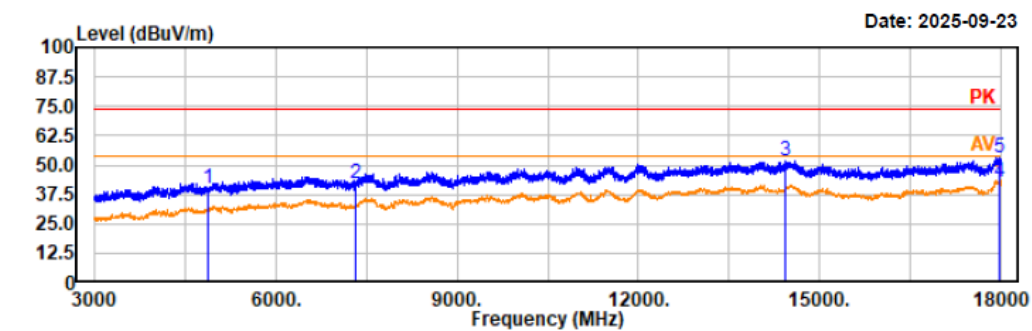
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4824.00	43.57	-5.26	38.31	74.00	35.69	vertical	Peak
7236.00	43.92	-2.47	41.45	74.00	32.55	vertical	Peak
14506.50	46.23	5.06	51.29	74.00	22.71	vertical	Peak
17979.00	35.73	6.89	42.62	54.00	11.38	vertical	Average
17979.00	46.82	6.89	53.71	74.00	20.29	vertical	Peak

Project No.: 2507W20891E-RF
Test Mode: 802.11b 2437MHz
EUT Model: TM981
Test distance: 3m

Temp/Humi/ATM: 25.6°C/61%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 12V



Trace: 1

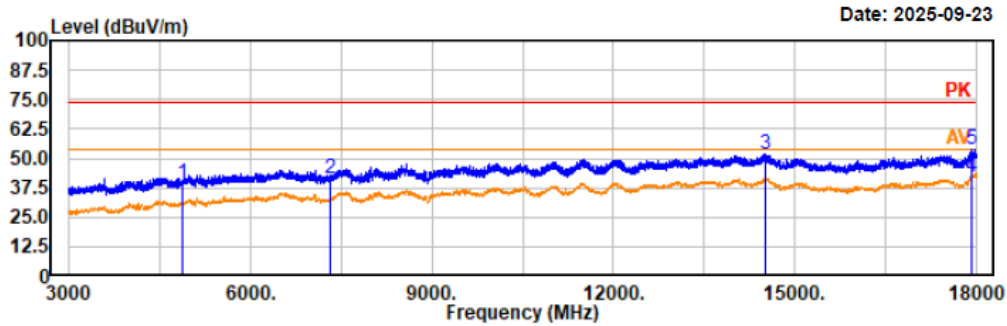
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4874.00	45.40	-5.29	40.11	74.00	33.89	horizontal	Peak
7311.00	44.15	-2.28	41.87	74.00	32.13	horizontal	Peak
14436.00	46.41	5.18	51.59	74.00	22.41	horizontal	Peak
17989.50	36.07	6.90	42.97	54.00	11.03	horizontal	Average
17989.50	46.31	6.90	53.21	74.00	20.79	horizontal	Peak

Project No.: 2507W20891E-RF
Test Mode: 802.11b 2437MHz
EUT Model: TM981
Test distance: 3m

Temp/Humi/ATM: 25.6°C/61%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 12V



Trace: 1

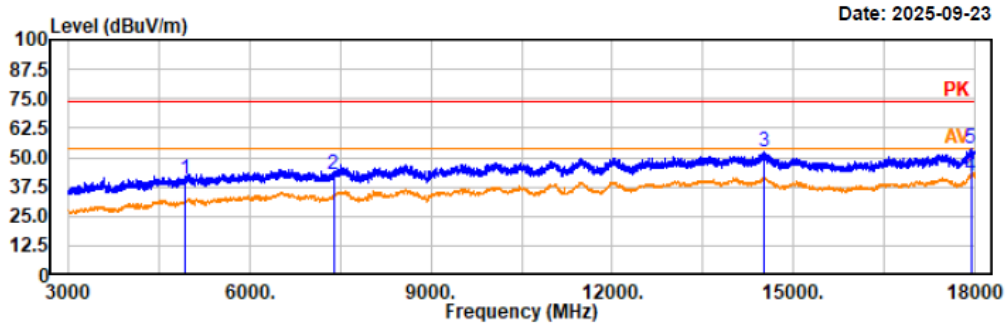
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4874.00	44.85	-5.29	39.56	74.00	34.44	vertical	Peak
7311.00	43.81	-2.28	41.53	74.00	32.47	vertical	Peak
14518.50	46.74	5.06	51.80	74.00	22.20	vertical	Peak
17922.00	35.28	6.83	42.11	54.00	11.89	vertical	Average
17922.00	46.93	6.83	53.76	74.00	20.24	vertical	Peak

Project No.: 2507W20891E-RF
Test Mode: 802.11b 2462MHz
EUT Model: TM981
Test distance: 3m

Temp/Humi/ATM: 25.6°C/61%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 12V



Trace: 1

Condition: PK RBW:1MHz VBW:3MHz SWT:auto
AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4924.00	45.79	-5.24	40.55	74.00	33.45	horizontal	Peak
7386.00	44.63	-2.15	42.48	74.00	31.52	horizontal	Peak
14514.00	47.39	5.07	52.46	74.00	21.54	horizontal	Peak
17938.50	35.28	6.84	42.12	54.00	11.88	horizontal	Average
17938.50	47.08	6.84	53.92	74.00	20.08	horizontal	Peak

Project No.: 2507W20891E-RF

Temp/Humi/ATM: 25.6°C/61%/100.1kPa

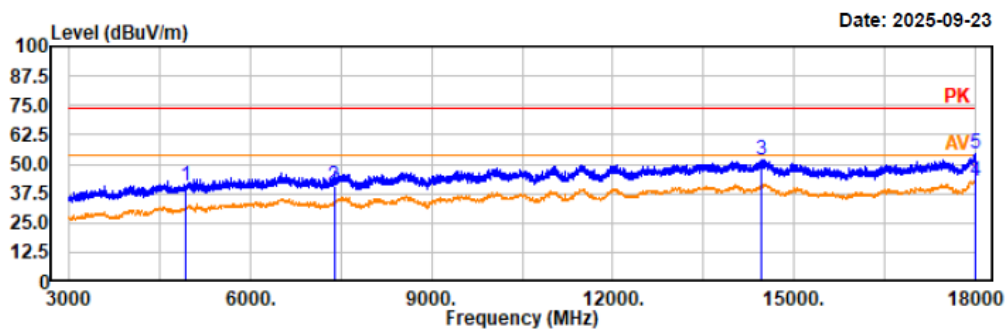
Test Mode: 802.11b 2462MHz

Tested by: Wlif Wu

EUT Model: TM981

Power Source: DC 12V

Test distance: 3m



Trace: 1

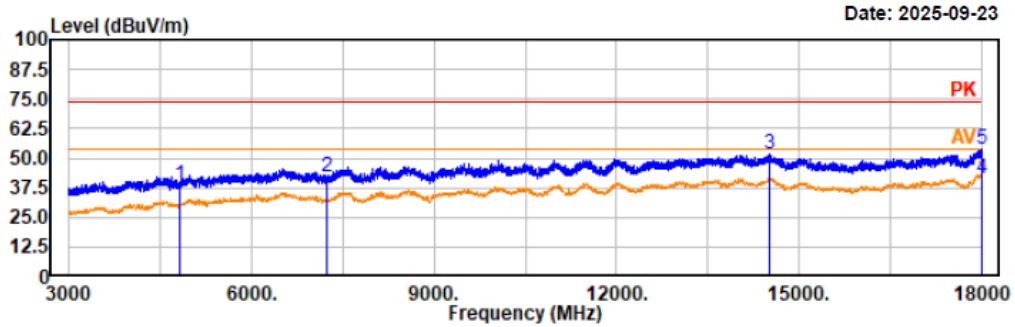
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4924.00	45.83	-5.24	40.59	74.00	33.41	vertical	Peak
7386.00	43.02	-2.15	40.87	74.00	33.13	vertical	Peak
14449.50	46.78	5.15	51.93	74.00	22.07	vertical	Peak
17992.50	36.10	6.90	43.00	54.00	11.00	vertical	Average
17992.50	47.50	6.90	54.40	74.00	19.60	vertical	Peak

Project No.: 2507W20891E-RF
 Test Mode: 802.11g 2412MHz
 EUT Model: TM981
 Test distance: 3m

Temp/Humi/ATM: 25.6°C/61%/100.1kPa
 Tested by: Wlif Wu
 Power Source: DC 12V



Trace: 1

Condition: PK RBW:1MHz VBW:3MHz SWT:auto

AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4824.00	44.03	-5.26	38.77	74.00	35.23	horizontal	Peak
7236.00	44.55	-2.47	42.08	74.00	31.92	horizontal	Peak
14518.50	46.34	5.06	51.40	74.00	22.60	horizontal	Peak
17998.50	34.55	6.91	41.46	54.00	12.54	horizontal	Average
17998.50	46.63	6.91	53.54	74.00	20.46	horizontal	Peak

Project No.: 2507W20891E-RF

Test Mode: 802.11g 2412MHz

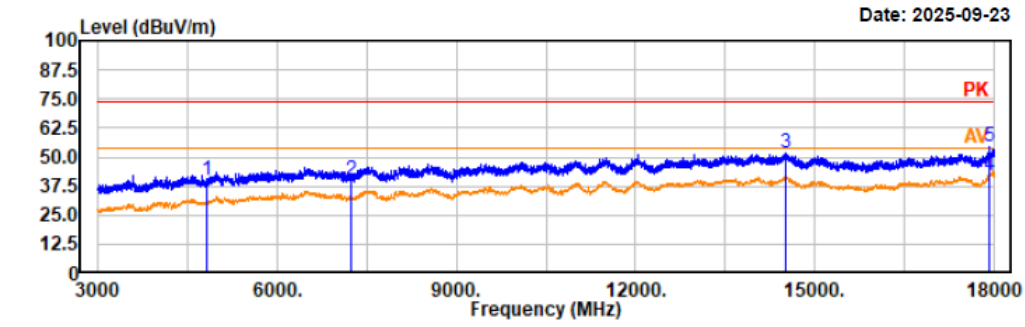
EUT Model: TM981

Test distance: 3m

Temp/Humi/ATM: 25.6°C/61%/100.1kPa

Tested by: Wlif Wu

Power Source: DC 12V



Trace: 1

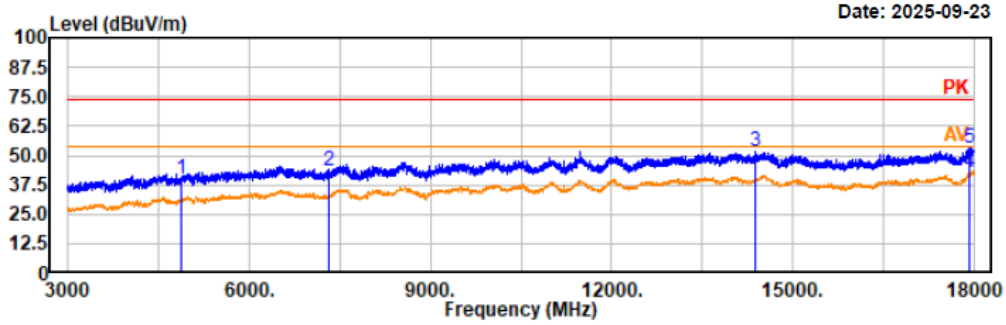
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4824.00	45.47	-5.26	40.21	74.00	33.79	vertical	Peak
7236.00	42.81	-2.47	40.34	74.00	33.66	vertical	Peak
14505.00	46.44	5.06	51.50	74.00	22.50	vertical	Peak
17919.00	35.25	6.82	42.07	54.00	11.93	vertical	Average
17919.00	47.39	6.82	54.21	74.00	19.79	vertical	Peak

Project No.: 2507W20891E-RF
Test Mode: 802.11g 2437MHz
EUT Model: TM981
Test distance: 3m

Temp/Humi/ATM: 25.6°C/61%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 12V



Trace: 1

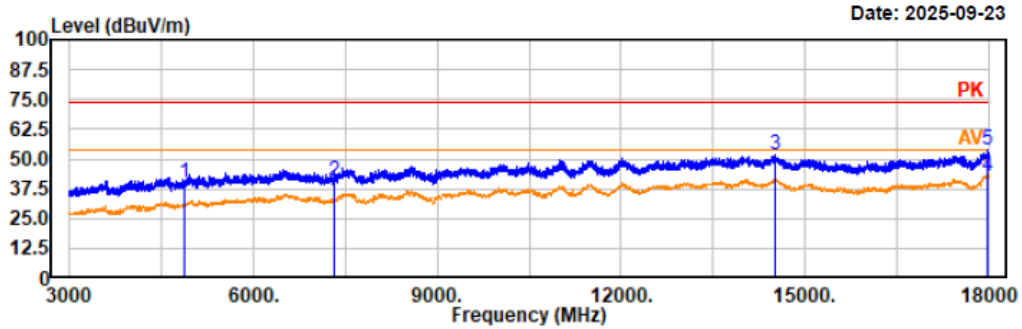
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4874.00	45.29	-5.29	40.00	74.00	34.00	horizontal	Peak
7311.00	45.86	-2.28	43.58	74.00	30.42	horizontal	Peak
14386.50	46.49	5.25	51.74	74.00	22.26	horizontal	Peak
17928.00	35.58	6.84	42.42	54.00	11.58	horizontal	Average
17928.00	46.06	6.84	52.90	74.00	21.10	horizontal	Peak

Project No.: 2507W20891E-RF
Test Mode: 802.11g 2437MHz
EUT Model: TM981
Test distance: 3m

Temp/Humi/ATM: 25.6°C/61%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 12V



Trace: 1

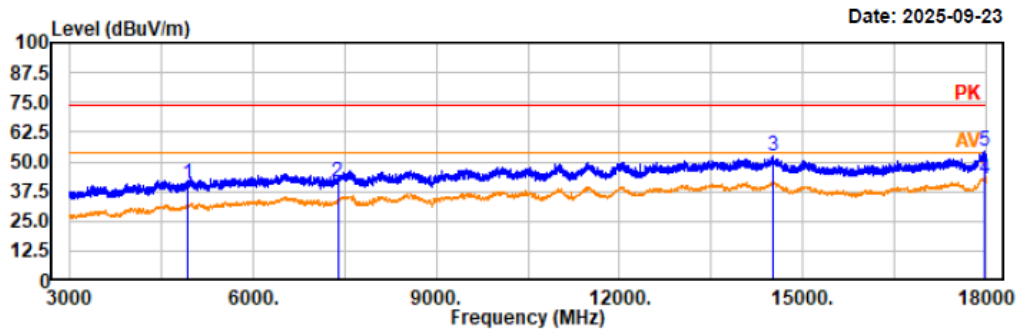
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4874.00	45.26	-5.29	39.97	74.00	34.03	vertical	Peak
7311.00	43.26	-2.28	40.98	74.00	33.02	vertical	Peak
14523.00	46.40	5.06	51.46	74.00	22.54	vertical	Peak
17983.50	35.69	6.89	42.58	54.00	11.42	vertical	Average
17983.50	47.09	6.89	53.98	74.00	20.02	vertical	Peak

Project No.: 2507W20891E-RF
Test Mode: 802.11g 2462MHz
EUT Model: TM981
Test distance: 3m

Temp/Humi/ATM: 25.6°C/61%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 12V



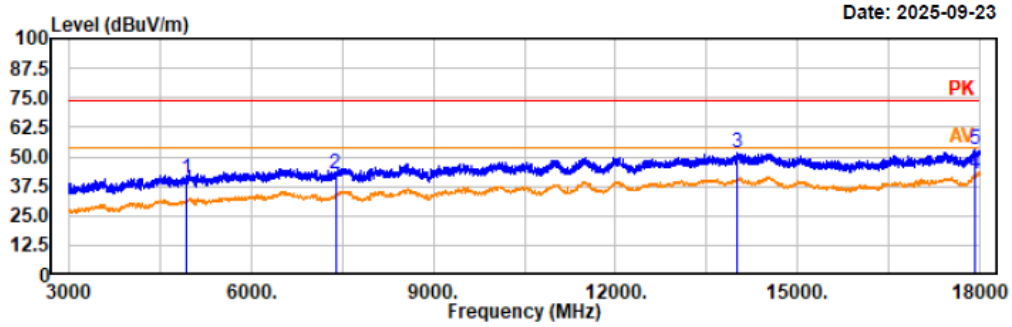
Trace: 1

Condition: PK RBW:1MHz VBW:3MHz SWT:auto
AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4924.00	46.13	-5.24	40.89	74.00	33.11	horizontal	Peak
7386.00	43.40	-2.15	41.25	74.00	32.75	horizontal	Peak
14526.00	47.02	5.05	52.07	74.00	21.93	horizontal	Peak
17986.50	36.00	6.89	42.89	54.00	11.11	horizontal	Average
17986.50	47.47	6.89	54.36	74.00	19.64	horizontal	Peak

Project No.: 2507W20891E-RF
Test Mode: 802.11g 2462MHz
EUT Model: TM981
Test distance: 3m

Temp/Humi/ATM: 25.6°C/61%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 12V



Trace: 1

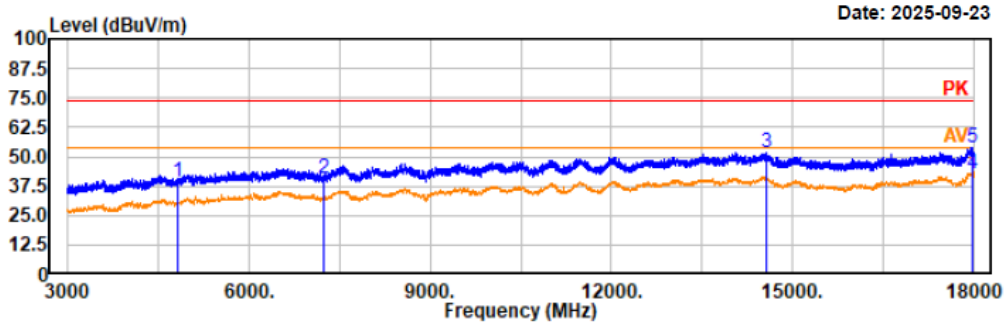
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4924.00	45.90	-5.24	40.66	74.00	33.34	vertical	Peak
7386.00	45.02	-2.15	42.87	74.00	31.13	vertical	Peak
14014.50	46.24	5.22	51.46	74.00	22.54	vertical	Peak
17925.00	35.79	6.84	42.63	54.00	11.37	vertical	Average
17925.00	46.02	6.84	52.86	74.00	21.14	vertical	Peak

Project No.: 2507W20891E-RF
Test Mode: 802.11n20 2412MHz
EUT Model: TM981
Test distance: 3m

Temp/Humi/ATM: 25.6°C/61%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 12V



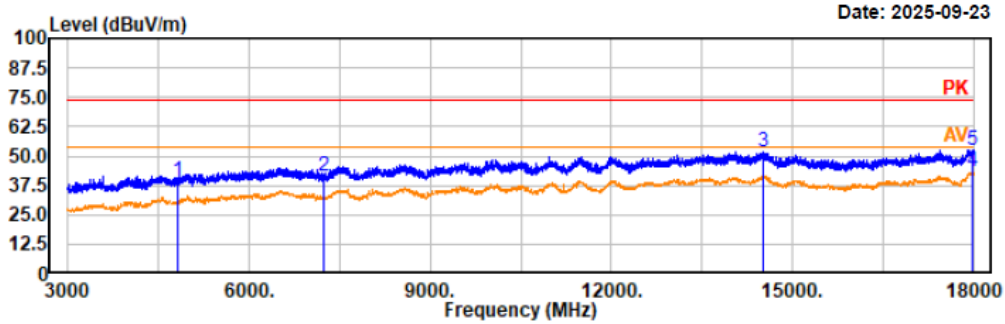
Trace: 1

Condition: PK RBW:1MHz VBW:3MHz SWT:auto
AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4824.00	44.23	-5.26	38.97	74.00	35.03	horizontal	Peak
7236.00	43.38	-2.47	40.91	74.00	33.09	horizontal	Peak
14565.00	46.66	5.03	51.69	74.00	22.31	horizontal	Peak
17983.50	35.98	6.89	42.87	54.00	11.13	horizontal	Average
17983.50	46.93	6.89	53.82	74.00	20.18	horizontal	Peak

Project No.: 2507W20891E-RF
Test Mode: 802.11n20 2412MHz
EUT Model: TM981
Test distance: 3m

Temp/Humi/ATM: 25.6°C/61%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 12V



Trace: 1

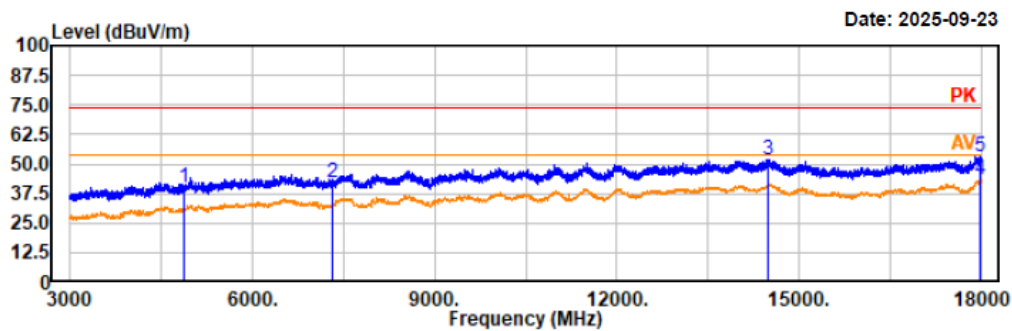
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4824.00	44.86	-5.26	39.60	74.00	34.40	vertical	Peak
7236.00	43.80	-2.47	41.33	74.00	32.67	vertical	Peak
14505.00	46.63	5.06	51.69	74.00	22.31	vertical	Peak
17989.50	36.20	6.90	43.10	54.00	10.90	vertical	Average
17989.50	45.80	6.90	52.70	74.00	21.30	vertical	Peak

Project No.: 2507W20891E-RF
Test Mode: 802.11n20 2437MHz
EUT Model: TM981
Test distance: 3m

Temp/Humi/ATM: 25.6°C/61%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 12V



Trace: 1

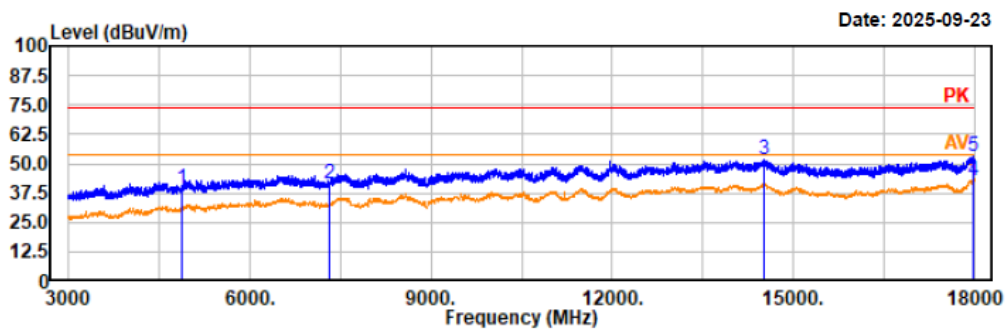
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4874.00	45.51	-5.29	40.22	74.00	33.78	horizontal	Peak
7311.00	44.60	-2.28	42.32	74.00	31.68	horizontal	Peak
14479.50	46.49	5.11	51.60	74.00	22.40	horizontal	Peak
17988.00	36.67	6.89	43.56	54.00	10.44	horizontal	Average
17988.00	46.12	6.89	53.01	74.00	20.99	horizontal	Peak

Project No.: 2507W20891E-RF
Test Mode: 802.11n20 2437MHz
EUT Model: TM981
Test distance: 3m

Temp/Humi/ATM: 25.6°C/61%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 12V



Trace: 1

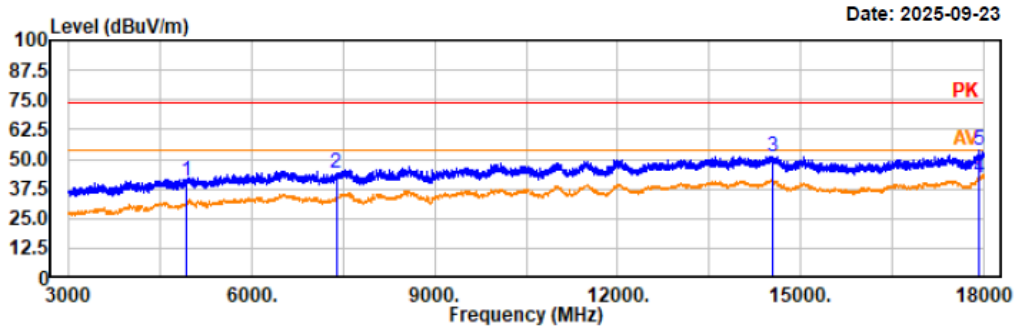
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4874.00	44.84	-5.29	39.55	74.00	34.45	vertical	Peak
7311.00	43.65	-2.28	41.37	74.00	32.63	vertical	Peak
14512.50	46.45	5.07	51.52	74.00	22.48	vertical	Peak
17979.00	35.62	6.89	42.51	54.00	11.49	vertical	Average
17979.00	46.24	6.89	53.13	74.00	20.87	vertical	Peak

Project No.: 2507W20891E-RF
Test Mode: 802.11n20 2462MHz
EUT Model: TM981
Test distance: 3m

Temp/Humi/ATM: 25.6°C/61%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 12V



Trace: 1

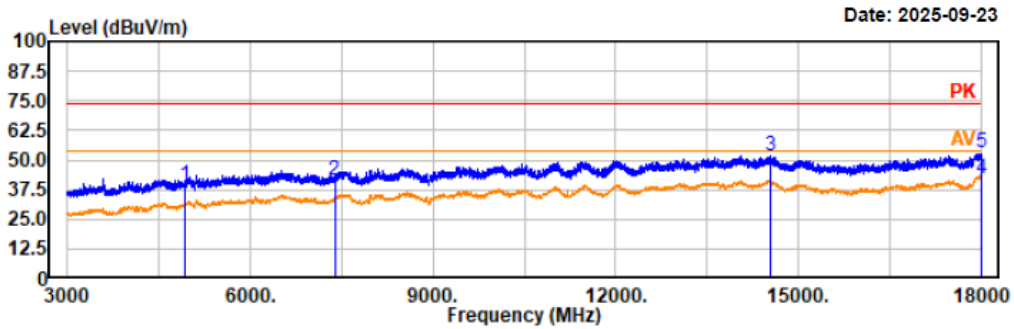
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4924.00	45.95	-5.24	40.71	74.00	33.29	horizontal	Peak
7386.00	46.08	-2.15	43.93	74.00	30.07	horizontal	Peak
14538.00	46.29	5.05	51.34	74.00	22.66	horizontal	Peak
17931.00	35.42	6.83	42.25	54.00	11.75	horizontal	Average
17931.00	47.29	6.83	54.12	74.00	19.88	horizontal	Peak

Project No.: 2507W20891E-RF
Test Mode: 802.11n20 2462MHz
EUT Model: TM981
Test distance: 3m

Temp/Humi/ATM: 25.6°C/61%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 12V



Trace: 1

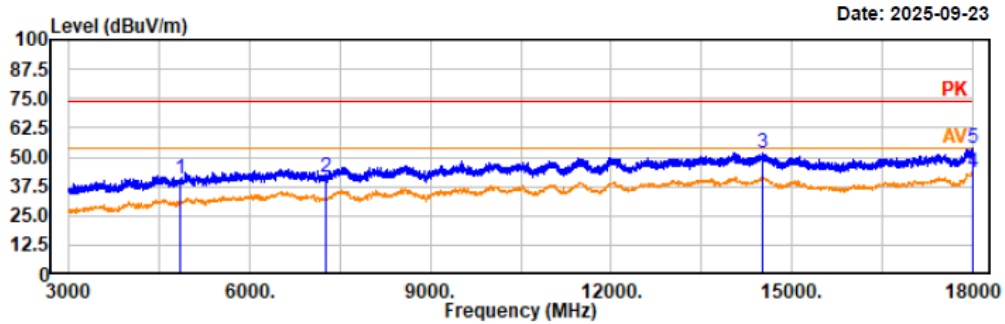
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4924.00	44.62	-5.24	39.38	74.00	34.62	vertical	Peak
7386.00	43.77	-2.15	41.62	74.00	32.38	vertical	Peak
14547.00	46.91	5.04	51.95	74.00	22.05	vertical	Peak
17999.99	34.86	6.91	41.77	54.00	12.23	vertical	Average
17999.99	45.93	6.91	52.84	74.00	21.16	vertical	Peak

Project No.: 2507W20891E-RF
Test Mode: 802.11n40 2422MHz
EUT Model: TM981
Test distance: 3m

Temp/Humi/ATM: 25.6°C/61%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 12V



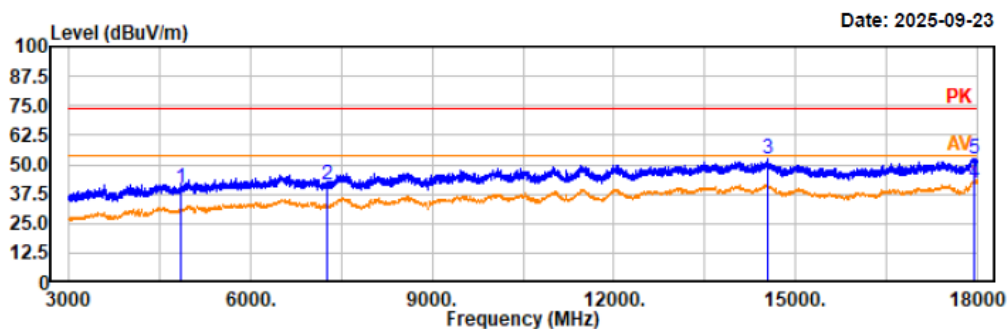
Trace: 1

Condition: PK RBW:1MHz VBW:3MHz SWT:auto
AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4844.00	46.27	-5.27	41.00	74.00	33.00	horizontal	Peak
7266.00	44.09	-2.39	41.70	74.00	32.30	horizontal	Peak
14520.00	46.55	5.06	51.61	74.00	22.39	horizontal	Peak
17994.00	36.40	6.90	43.30	54.00	10.70	horizontal	Average
17994.00	47.05	6.90	53.95	74.00	20.05	horizontal	Peak

Project No.: 2507W20891E-RF
Test Mode: 802.11n40 2422MHz
EUT Model: TM981
Test distance: 3m

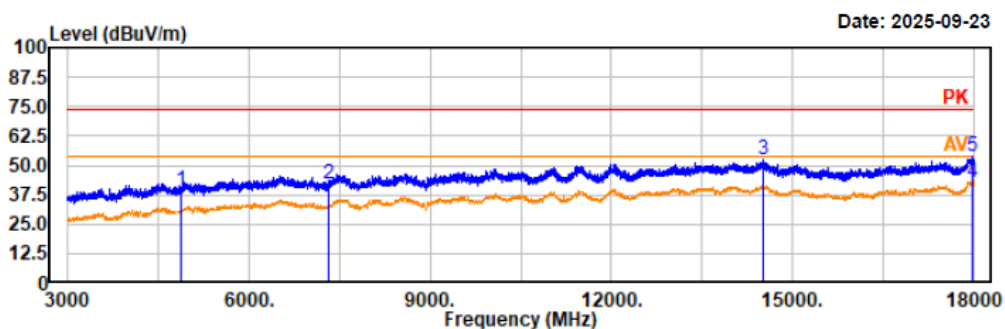
Temp/Humi/ATM: 25.6°C/61%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 12V



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4844.00	45.35	-5.27	40.08	74.00	33.92	vertical	Peak
7266.00	43.67	-2.39	41.28	74.00	32.72	vertical	Peak
14535.00	47.03	5.06	52.09	74.00	21.91	vertical	Peak
17958.00	35.33	6.87	42.20	54.00	11.80	vertical	Average
17958.00	45.85	6.87	52.72	74.00	21.28	vertical	Peak

Project No.: 2507W20891E-RF
Test Mode: 802.11n40 2437MHz
EUT Model: TM981
Test distance: 3m

Temp/Humi/ATM: 25.6°C/61%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 12V



Trace: 1

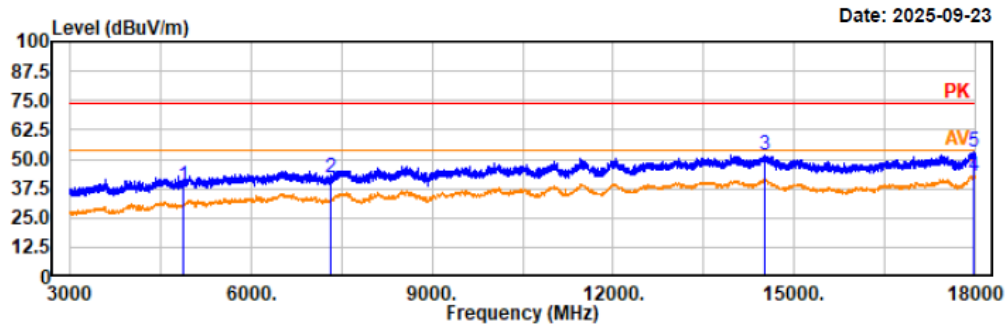
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4874.00	44.77	-5.29	39.48	74.00	34.52	horizontal	Peak
7311.00	44.27	-2.28	41.99	74.00	32.01	horizontal	Peak
14514.00	47.43	5.07	52.50	74.00	21.50	horizontal	Peak
17991.00	36.08	6.90	42.98	54.00	11.02	horizontal	Average
17991.00	46.64	6.90	53.54	74.00	20.46	horizontal	Peak

Project No.: 2507W20891E-RF
Test Mode: 802.11n40 2437MHz
EUT Model: TM981
Test distance: 3m

Temp/Humi/ATM: 25.6°C/61%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 12V



Trace: 1

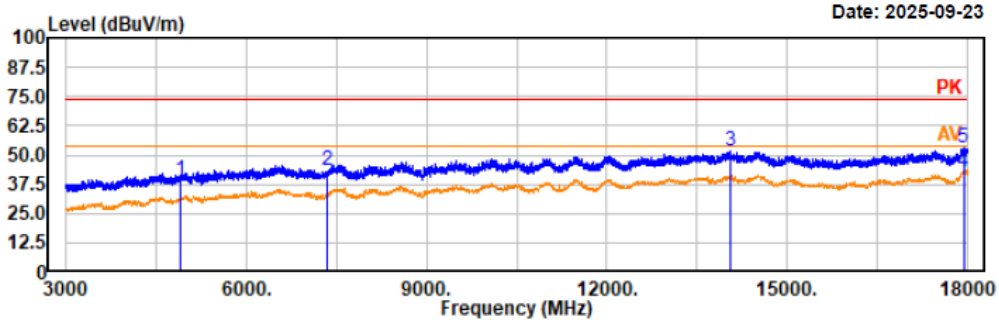
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4874.00	44.02	-5.29	38.73	74.00	35.27	vertical	Peak
7311.00	44.31	-2.28	42.03	74.00	31.97	vertical	Peak
14512.50	46.91	5.07	51.98	74.00	22.02	vertical	Peak
17988.00	36.14	6.89	43.03	54.00	10.97	vertical	Average
17988.00	46.27	6.89	53.16	74.00	20.84	vertical	Peak

Project No.: 2507W20891E-RF
Test Mode: 802.11n40 2452MHz
EUT Model: TM981
Test distance: 3m

Temp/Humi/ATM: 25.6°C/61%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 12V



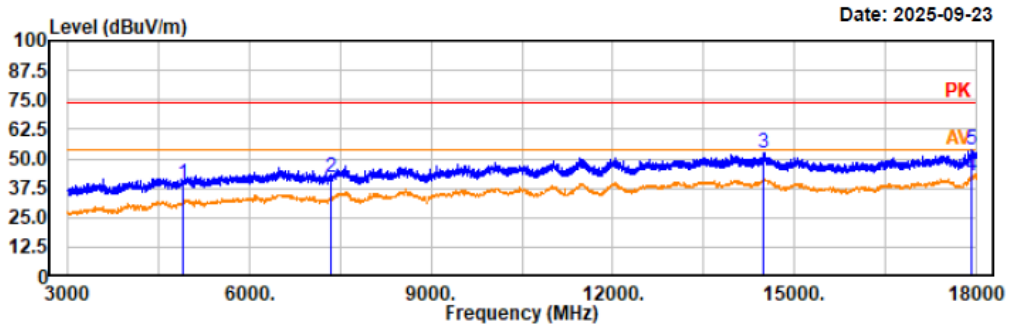
Trace: 1

Condition: PK RBW:1MHz VBW:3MHz SWT:auto
AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4904.00	44.51	-5.30	39.21	74.00	34.79	horizontal	Peak
7356.00	45.71	-2.17	43.54	74.00	30.46	horizontal	Peak
14068.50	46.15	5.29	51.44	74.00	22.56	horizontal	Peak
17938.50	35.75	6.84	42.59	54.00	11.41	horizontal	Average
17938.50	46.17	6.84	53.01	74.00	20.99	horizontal	Peak

Project No.: 2507W20891E-RF
 Test Mode: 802.11n40 2452MHz
 EUT Model: TM981
 Test distance: 3m

Temp/Humi/ATM: 25.6°C/61%/100.1kPa
 Tested by: Wlif Wu
 Power Source: DC 12V



Trace: 1

Condition: PK RBW:1MHz VBW:3MHz SWT:auto
 AV RBW:1MHz VBW:5kHz SWT:auto

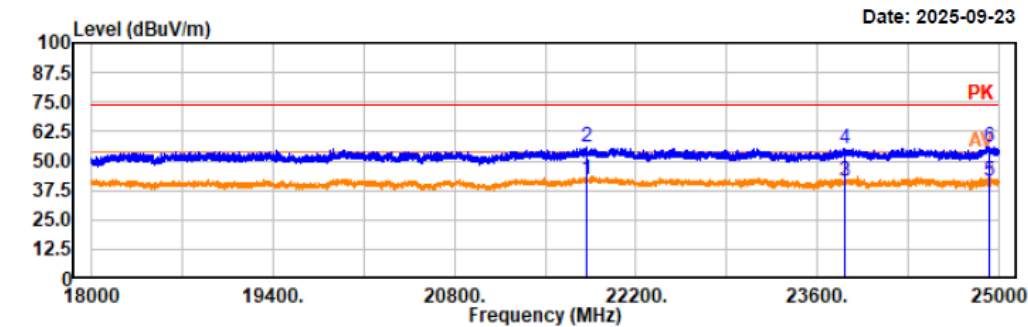
Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4904.00	44.87	-5.30	39.57	74.00	34.43	vertical	Peak
7356.00	44.58	-2.17	42.41	74.00	31.59	vertical	Peak
14499.00	47.32	5.07	52.39	74.00	21.61	vertical	Peak
17929.50	35.78	6.84	42.62	54.00	11.38	vertical	Average
17929.50	46.62	6.84	53.46	74.00	20.54	vertical	Peak

5) 18-25GHz

Note: The maximum output power mode: Wifi 802.11n20 low channel was tested.

Project No.: 2507W20891E-RF
Test Mode: 802.11n20 2412MHz
EUT Model: TM981
Test distance: 1.5m

Temp/Humi/ATM: 25.6°C/61%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 12V



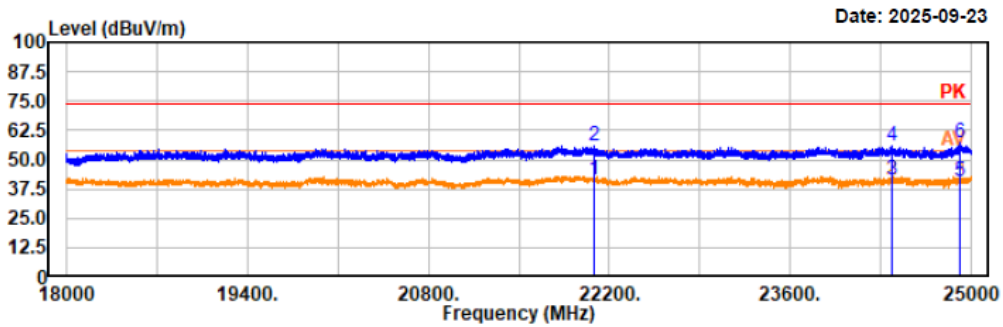
Trace: 1

Condition: PK RBW:1MHz VBW:3MHz SWT:auto
AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
21824.10	37.26	5.02	42.28	54.00	11.72	horizontal	Average
21824.10	50.72	5.02	55.74	74.00	18.26	horizontal	Peak
23814.20	36.21	5.25	41.46	54.00	12.54	horizontal	Average
23814.20	50.08	5.25	55.33	74.00	18.67	horizontal	Peak
24930.00	34.80	6.32	41.12	54.00	12.88	horizontal	Average
24930.00	49.45	6.32	55.77	74.00	18.23	horizontal	Peak

Project No.: 2507W20891E-RF
Test Mode: 802.11n20 2412MHz
EUT Model: TM981
Test distance: 1.5m

Temp/Humi/ATM: 25.6°C/61%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 12V



Trace: 1

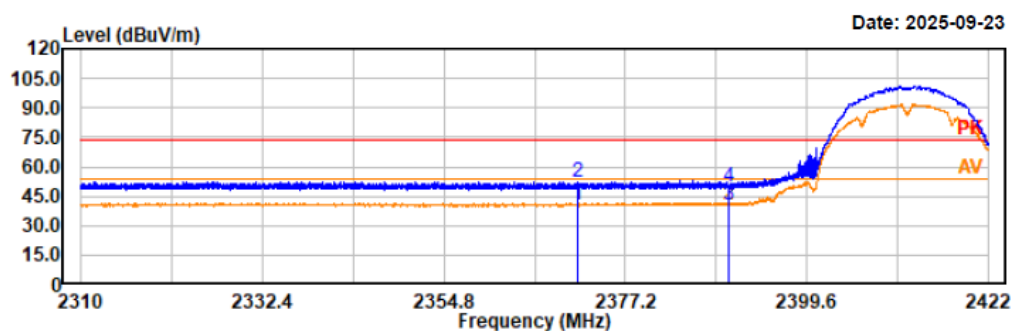
Condition: PK RBW:1MHz VBW:3MHz SWT:auto
AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
22081.00	36.18	5.05	41.23	54.00	12.77	vertical	Average
22081.00	50.60	5.05	55.65	74.00	18.35	vertical	Peak
24388.90	35.41	6.06	41.47	54.00	12.53	vertical	Average
24388.90	49.84	6.06	55.90	74.00	18.10	vertical	Peak
24914.60	34.39	6.31	40.70	54.00	13.30	vertical	Average
24914.60	50.97	6.31	57.28	74.00	16.72	vertical	Peak

Restricted Bands Emissions:

Project No.: 2507W20891E-RF
Test Mode: 802.11b 2412MHz
EUT Model: TM981
Test distance: 3m

Temp/Humi/ATM: 25.6°C/61%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 12V



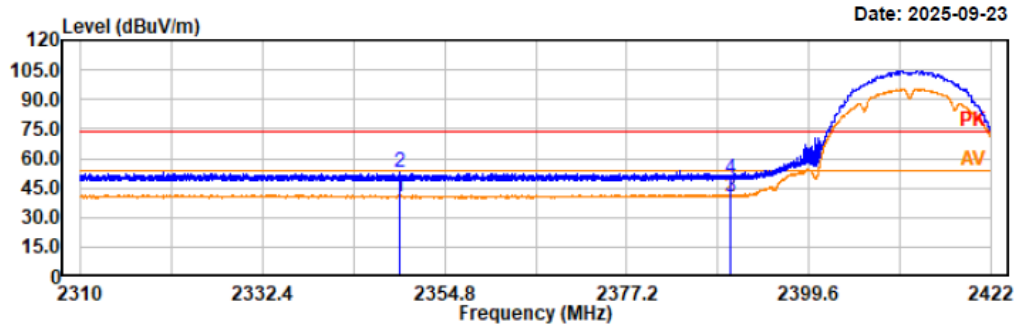
Trace: 1

Condition: PK RBW:1MHz VBW:3MHz SWT:auto
AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2371.32	35.67	4.77	40.44	54.00	13.56	horizontal	Average
2371.32	47.61	4.77	52.38	74.00	21.62	horizontal	Peak
2390.00	36.12	4.85	40.97	54.00	13.03	horizontal	Average
2390.00	44.84	4.85	49.69	74.00	24.31	horizontal	Peak

Project No.: 2507W20891E-RF
Test Mode: 802.11b 2412MHz
EUT Model: TM981
Test distance: 3m

Temp/Humi/ATM: 25.6°C/61%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 12V



Trace: 1

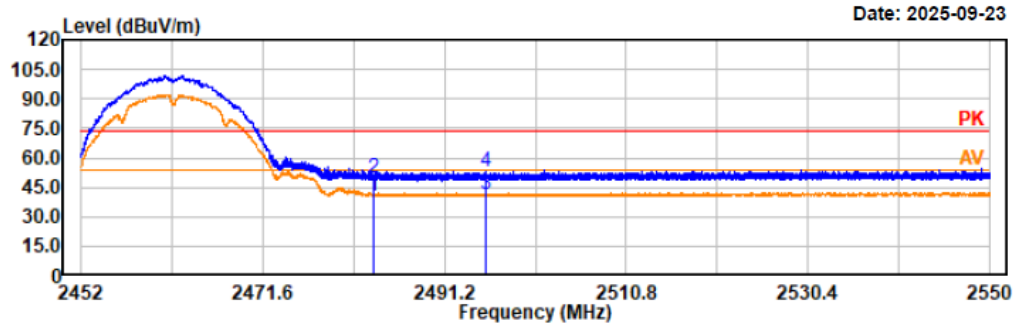
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2349.35	35.93	4.69	40.62	54.00	13.38	vertical	Average
2349.35	47.86	4.69	52.55	74.00	21.45	vertical	Peak
2390.00	35.77	4.85	40.62	54.00	13.38	vertical	Average
2390.00	45.12	4.85	49.97	74.00	24.03	vertical	Peak

Project No.: 2507W20891E-RF
Test Mode: 802.11b 2462MHz
EUT Model: TM981
Test distance: 3m

Temp/Humi/ATM: 25.6°C/61%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 12V



Trace: 1

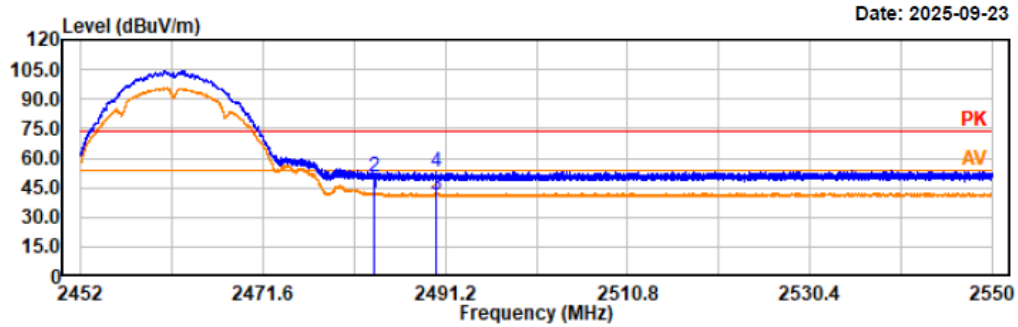
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2483.50	35.72	5.23	40.95	54.00	13.05	horizontal	Average
2483.50	44.51	5.23	49.74	74.00	24.26	horizontal	Peak
2495.70	35.88	5.30	41.18	54.00	12.82	horizontal	Average
2495.70	48.05	5.28	53.33	74.00	20.67	horizontal	Peak

Project No.: 2507W20891E-RF
Test Mode: 802.11b 2462MHz
EUT Model: TM981
Test distance: 3m

Temp/Humi/ATM: 25.6°C/61%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 12V



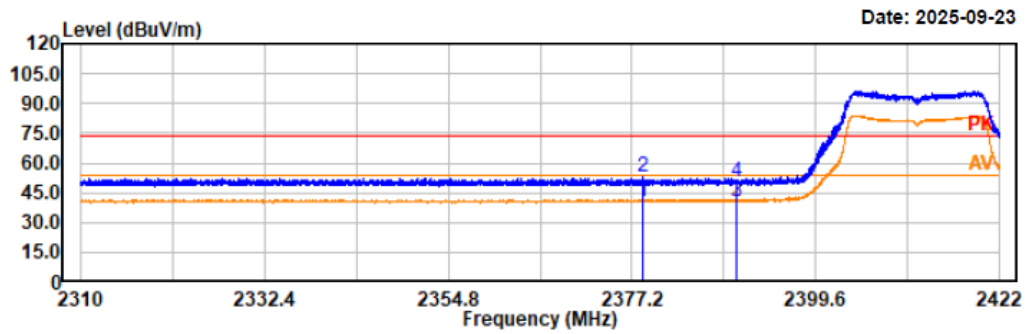
Trace: 1

Condition: PK RBW:1MHz VBW:3MHz SWT:auto
AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2483.50	36.59	5.23	41.82	54.00	12.18	vertical	Average
2483.50	44.86	5.23	50.09	74.00	23.91	vertical	Peak
2490.20	36.09	5.25	41.34	54.00	12.66	vertical	Average
2490.20	47.69	5.25	52.94	74.00	21.06	vertical	Peak

Project No.: 2507W20891E-RF
Test Mode: 802.11g 2412MHz
EUT Model: TM981
Test distance: 3m

Temp/Humi/ATM: 25.6°C/61%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 12V



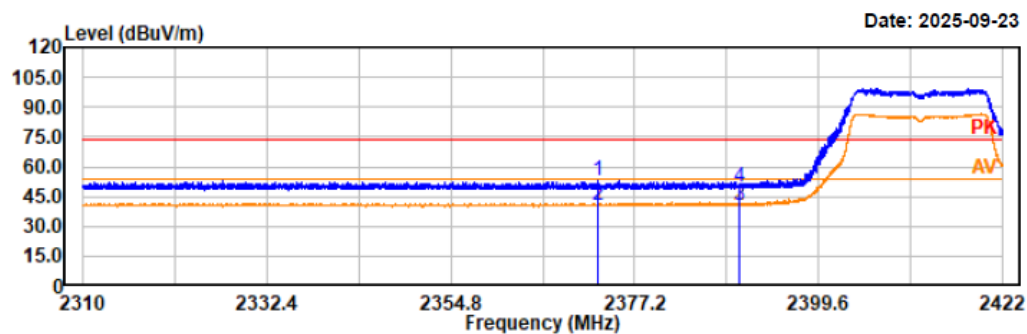
Trace: 1

Condition: PK RBW:1MHz VBW:3MHz SWT:auto
AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2378.48	36.08	4.79	40.87	54.00	13.13	horizontal	Average
2378.48	48.31	4.79	53.10	74.00	20.90	horizontal	Peak
2390.00	35.91	4.85	40.76	54.00	13.24	horizontal	Average
2390.00	45.46	4.85	50.31	74.00	23.69	horizontal	Peak

Project No.: 2507W20891E-RF
Test Mode: 802.11g 2412MHz
EUT Model: TM981
Test distance: 3m

Temp/Humi/ATM: 25.6°C/61%/100.1kPa
Tested by: Wliff Wu
Power Source: DC 12V



Trace: 1

Condition: PK RBW:1MHz VBW:3MHz SWT:auto

AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2372.67	47.95	4.77	52.72	74.00	21.28	vertical	Peak
2372.68	35.66	4.77	40.43	54.00	13.57	vertical	Average
2390.00	36.00	4.85	40.85	54.00	13.15	vertical	Average
2390.00	45.22	4.85	50.07	74.00	23.93	vertical	Peak

Project No.: 2507W20891E-RF

Test Mode: 802.11g 2462MHz

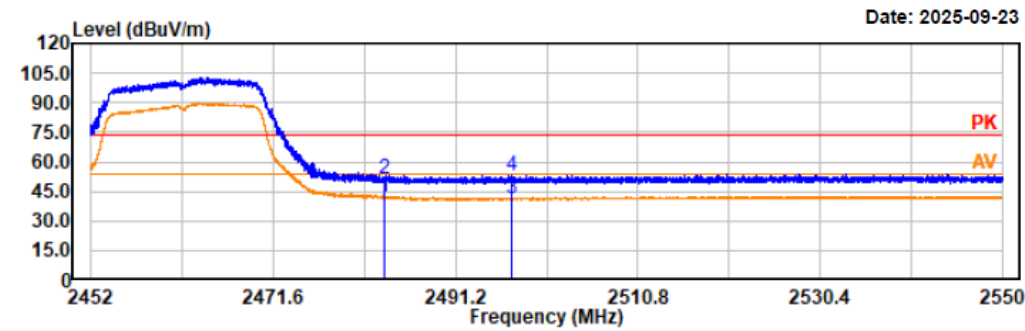
EUT Model: TM981

Test distance: 3m

Temp/Humi/ATM: 25.6°C/61%/100.1kPa

Tested by: Wlif Wu

Power Source: DC 12V



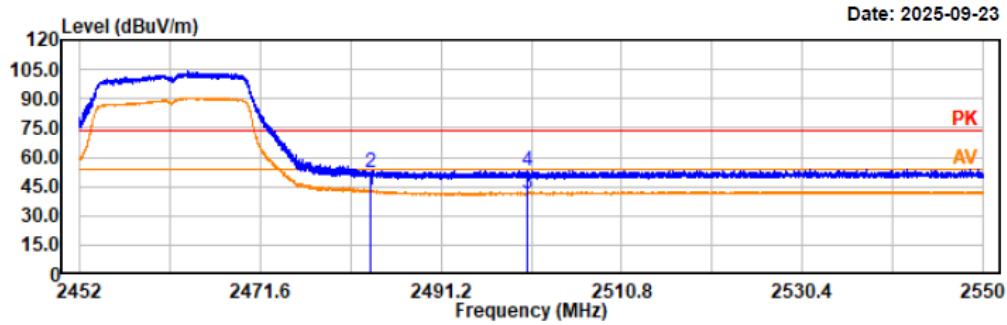
Trace: 1

Condition: PK RBW:1MHz VBW:3MHz SWT:auto
AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2483.50	37.19	5.23	42.42	54.00	11.58	horizontal	Average
2483.50	45.78	5.23	51.01	74.00	22.99	horizontal	Peak
2497.26	36.03	5.34	41.37	54.00	12.63	horizontal	Average
2497.26	47.82	5.29	53.11	74.00	20.89	horizontal	Peak

Project No.: 2507W20891E-RF
 Test Mode: 802.11g 2462MHz
 EUT Model: TM981
 Test distance: 3m

Temp/Humi/ATM: 25.6°C/61%/100.1kPa
 Tested by: Wlif Wu
 Power Source: DC 12V



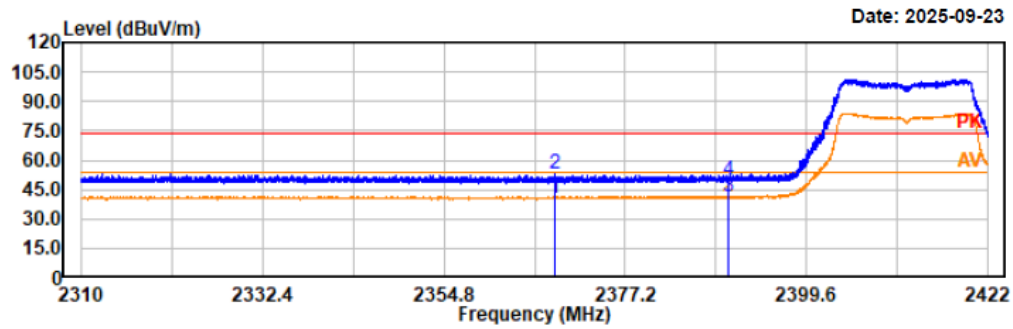
Trace: 1

Condition: PK RBW:1MHz VBW:3MHz SWT:auto
 AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2483.50	37.85	5.23	43.08	54.00	10.92	vertical	Average
2483.50	47.22	5.23	52.45	74.00	21.55	vertical	Peak
2498.58	36.47	5.30	41.77	54.00	12.23	vertical	Average
2498.58	47.66	5.30	52.96	74.00	21.04	vertical	Peak

Project No.: 2507W20891E-RF
Test Mode: 802.11n20 2412MHz
EUT Model: TM981
Test distance: 3m

Temp/Humi/ATM: 25.6°C/61%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 12V



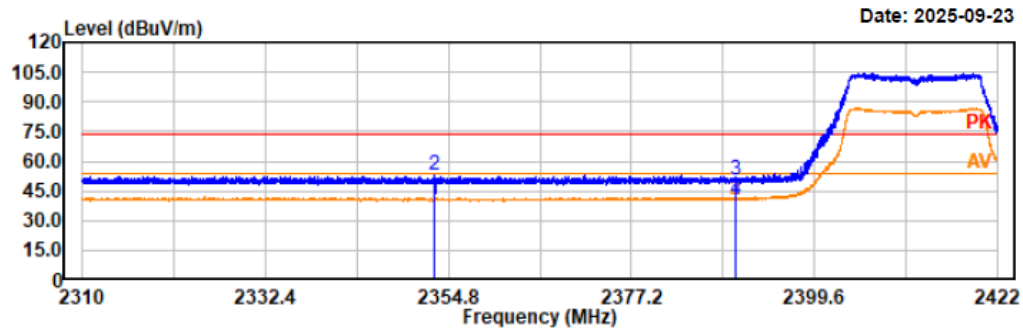
Trace: 1

Condition: PK RBW:1MHz VBW:3MHz SWT:auto
AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2368.42	35.95	4.76	40.71	54.00	13.29	horizontal	Average
2368.42	47.92	4.76	52.68	74.00	21.32	horizontal	Peak
2390.00	36.17	4.85	41.02	54.00	12.98	horizontal	Average
2390.00	45.20	4.85	50.05	74.00	23.95	horizontal	Peak

Project No.: 2507W20891E-RF
Test Mode: 802.11n20 2412MHz
EUT Model: TM981
Test distance: 3m

Temp/Humi/ATM: 25.6°C/61%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 12V



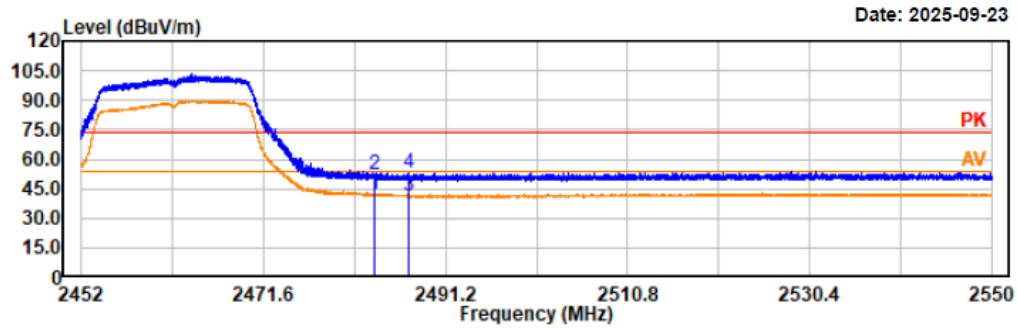
Trace: 1

Condition: PK RBW:1MHz VBW:3MHz SWT:auto
AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2353.10	35.88	4.69	40.57	54.00	13.43	vertical	Average
2353.10	48.14	4.69	52.83	74.00	21.17	vertical	Peak
2390.00	45.37	4.85	50.22	74.00	23.78	vertical	Peak
2390.00	36.12	4.85	40.97	54.00	13.03	vertical	Average

Project No.: 2507W20891E-RF
Test Mode: 802.11n20 2462MHz
EUT Model: TM981
Test distance: 3m

Temp/Humi/ATM: 25.6°C/61%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 12V



Trace: 1

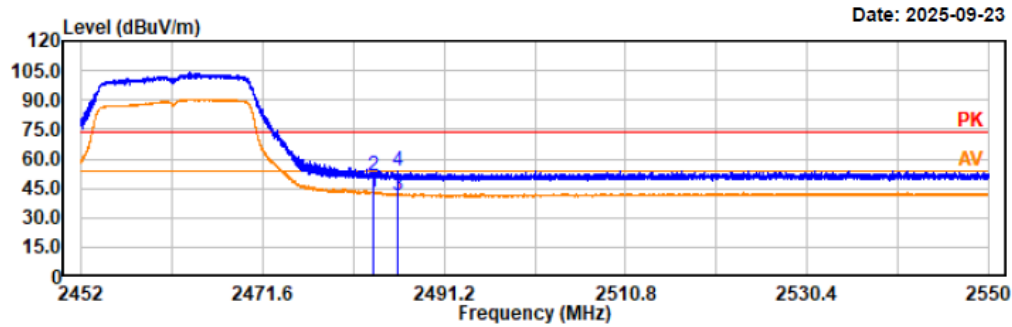
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2483.50	36.74	5.23	41.97	54.00	12.03	horizontal	Average
2483.50	46.59	5.23	51.82	74.00	22.18	horizontal	Peak
2487.23	36.15	5.25	41.40	54.00	12.60	horizontal	Average
2487.23	47.92	5.25	53.17	74.00	20.83	horizontal	Peak

Project No.: 2507W20891E-RF
Test Mode: 802.11n20 2462MHz
EUT Model: TM981
Test distance: 3m

Temp/Humi/ATM: 25.6°C/61%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 12V



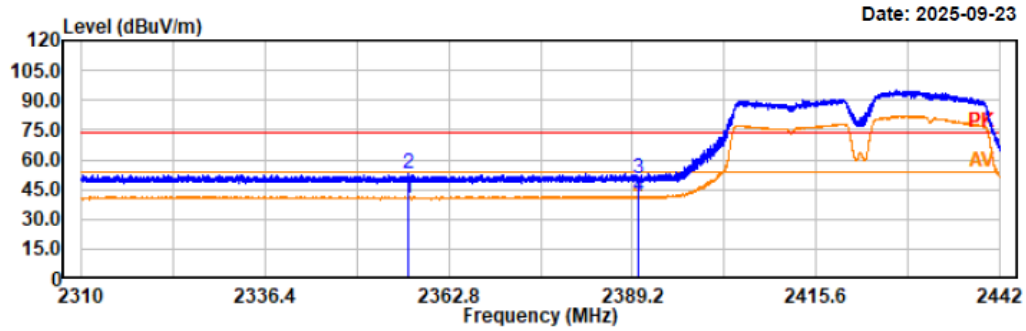
Trace: 1

Condition: PK RBW:1MHz VBW:3MHz SWT:auto
AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2483.50	37.93	5.23	43.16	54.00	10.84	vertical	Average
2483.50	45.72	5.23	50.95	74.00	23.05	vertical	Peak
2486.26	36.18	5.25	41.43	54.00	12.57	vertical	Average
2486.26	48.91	5.25	54.16	74.00	19.84	vertical	Peak

Project No.: 2507W20891E-RF
 Test Mode: 802.11n40 2422MHz
 EUT Model: TM981
 Test distance: 3m

Temp/Humi/ATM: 25.6°C/61%/100.1kPa
 Tested by: Wlif Wu
 Power Source: DC 12V



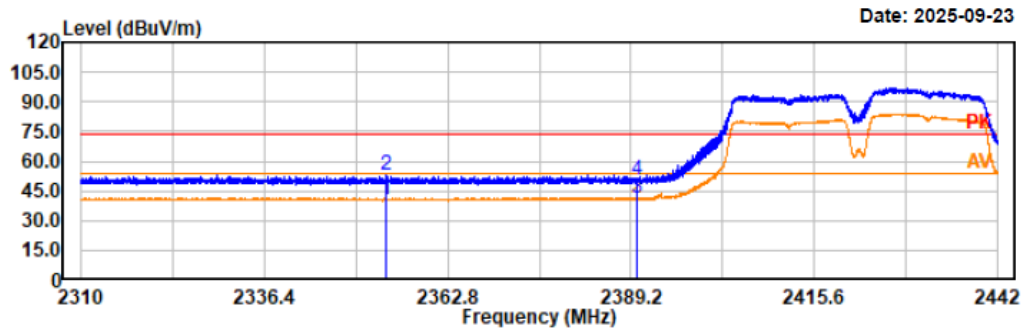
Trace: 1

Condition: PK RBW:1MHz VBW:3MHz SWT:auto
 AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2356.91	35.71	4.71	40.42	54.00	13.58	horizontal	Average
2356.91	47.91	4.71	52.62	74.00	21.38	horizontal	Peak
2390.00	45.82	4.85	50.67	74.00	23.33	horizontal	Peak
2390.00	36.37	4.85	41.22	54.00	12.78	horizontal	Average

Project No.: 2507W20891E-RF
 Test Mode: 802.11n40 2422MHz
 EUT Model: TM981
 Test distance: 3m

Temp/Humi/ATM: 25.6°C/61%/100.1kPa
 Tested by: Wlif Wu
 Power Source: DC 12V



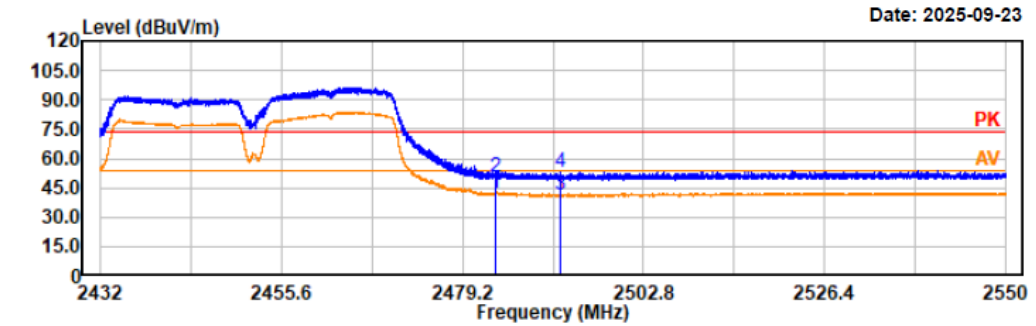
Trace: 1

Condition: PK RBW:1MHz VBW:3MHz SWT:auto
 AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2353.88	36.02	4.70	40.72	54.00	13.28	vertical	Average
2353.88	47.93	4.70	52.63	74.00	21.37	vertical	Peak
2390.00	36.16	4.85	41.01	54.00	12.99	vertical	Average
2390.00	45.55	4.85	50.40	74.00	23.60	vertical	Peak

Project No.: 2507W20891E-RF
Test Mode: 802.11n40 2452MHz
EUT Model: TM981
Test distance: 3m

Temp/Humi/ATM: 25.6°C/61%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 12V



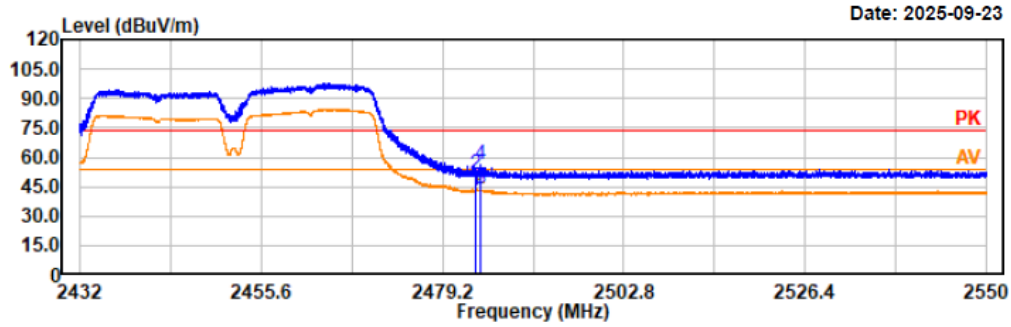
Trace: 1

Condition: PK RBW:1MHz VBW:3MHz SWT:auto
AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2483.50	37.00	5.23	42.23	54.00	11.77	horizontal	Average
2483.50	45.48	5.23	50.71	74.00	23.29	horizontal	Peak
2491.97	35.73	5.27	41.00	54.00	13.00	horizontal	Average
2491.97	47.48	5.27	52.75	74.00	21.25	horizontal	Peak

Project No.: 2507W20891E-RF
 Test Mode: 802.11n40 2452MHz
 EUT Model: TM981
 Test distance: 3m

Temp/Humi/ATM: 25.6°C/61%/100.1kPa
 Tested by: Wlif Wu
 Power Source: DC 12V



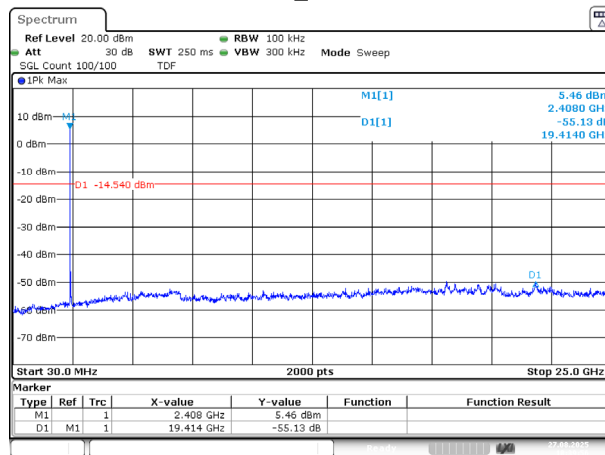
Trace: 1

Condition: PK RBW:1MHz VBW:3MHz SWT:auto
 AV RBW:1MHz VBW:5kHz SWT:auto

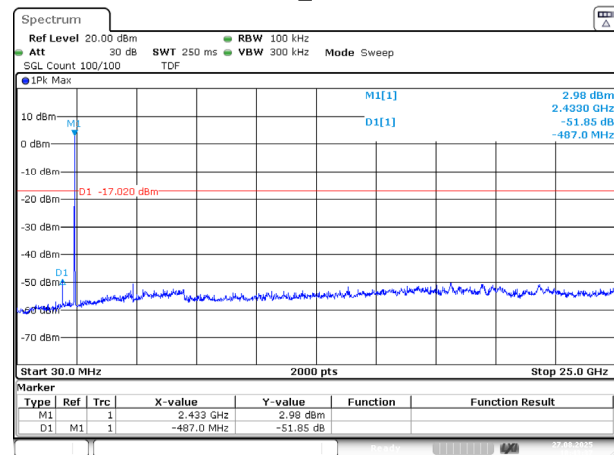
Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2483.50	38.06	5.23	43.29	54.00	10.71	vertical	Average
2483.50	46.07	5.23	51.30	74.00	22.70	vertical	Peak
2484.05	38.31	5.24	43.55	54.00	10.45	vertical	Average
2484.05	51.13	5.24	56.37	74.00	17.63	vertical	Peak

Antenna-port conducted emission

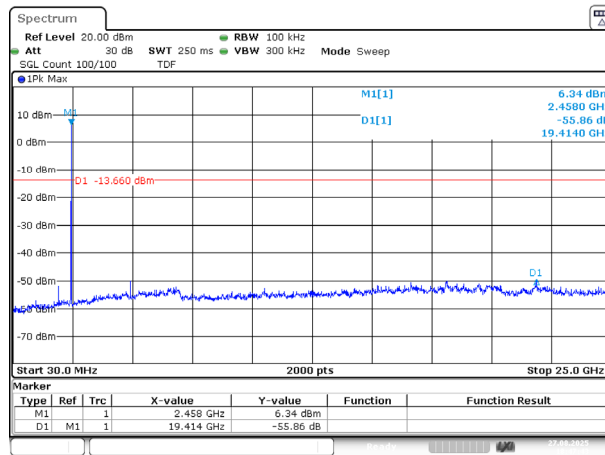
802.11b_2412MHz



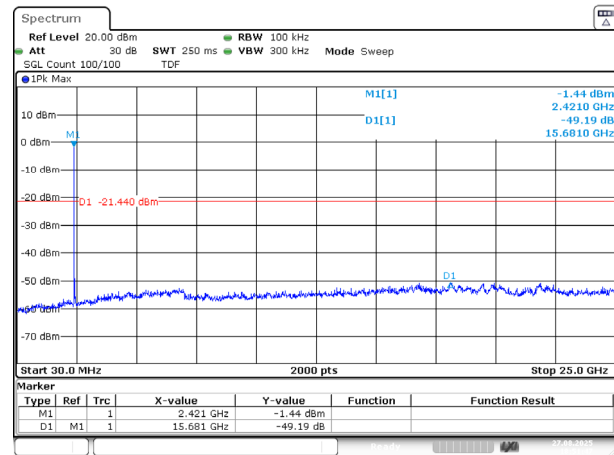
802.11b_2437MHz



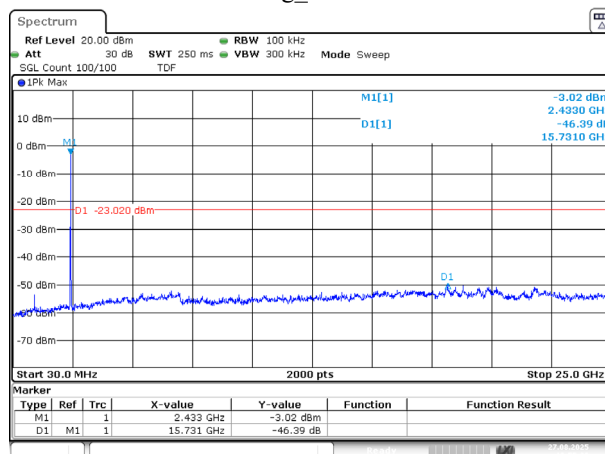
802.11b_2462MHz



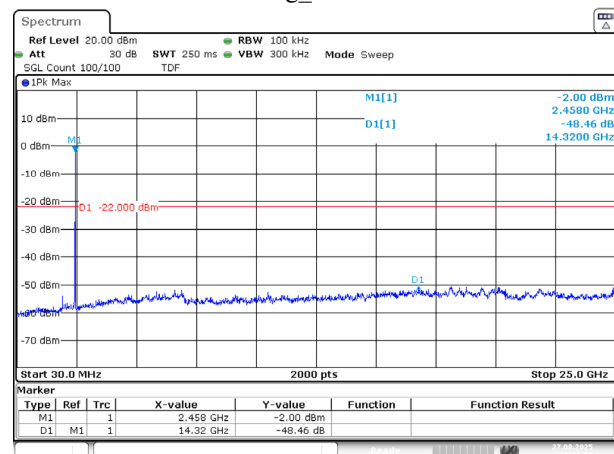
802.11g_2412MHz



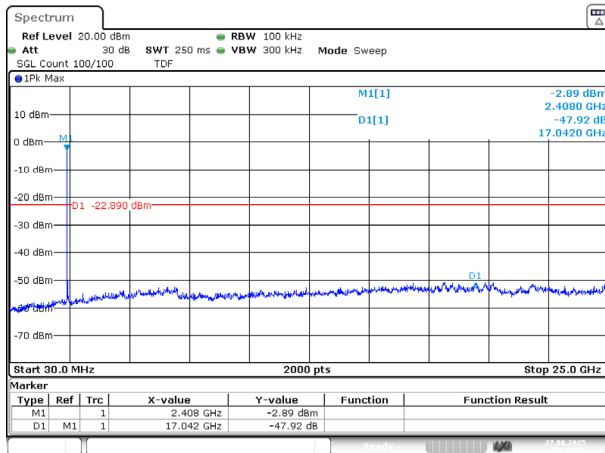
802.11g_2437MHz



802.11g_2462MHz

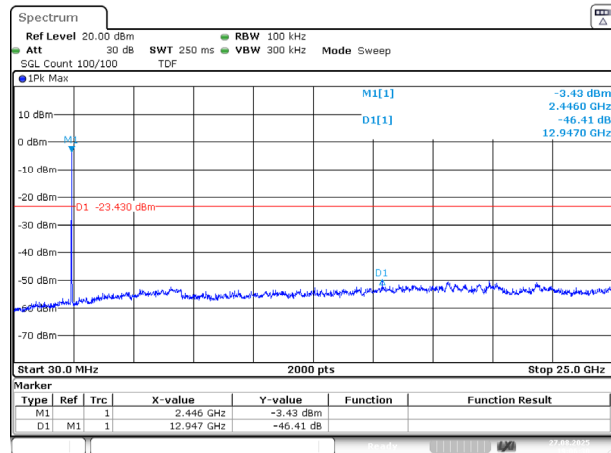


802.11n20_2412MHz



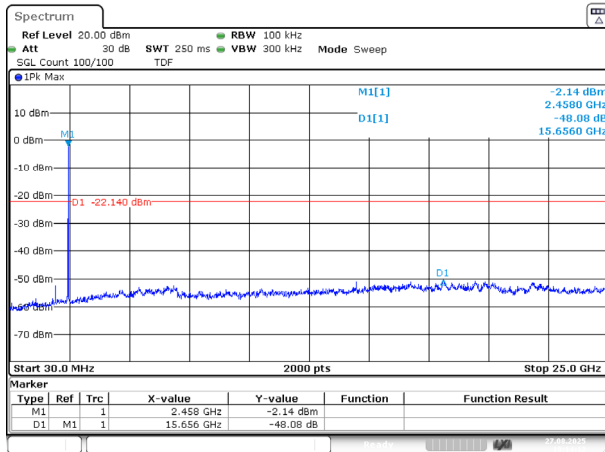
ProjectNo.:2507W20891E-RF Tester:Braylon Ma
Date: 27.AUG.2025 19:02:56

802.11n20_2437MHz



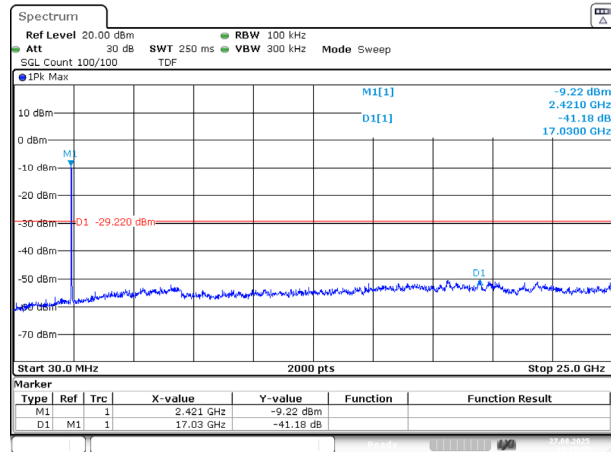
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Date: 27.AUG.2025 19:06:30

802.11n20_2462MHz



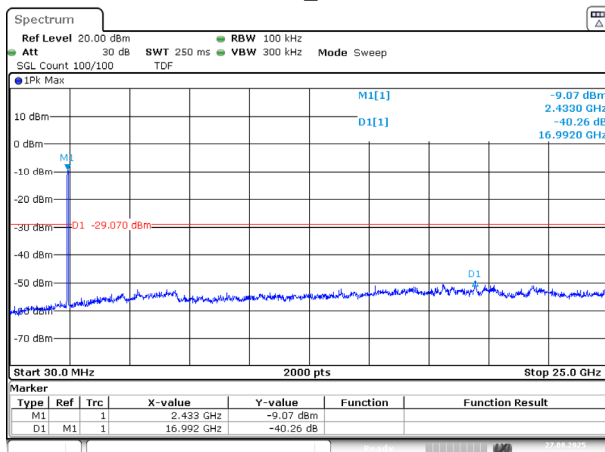
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Date: 27.AUG.2025 19:14:12

802.11n40_2422MHz



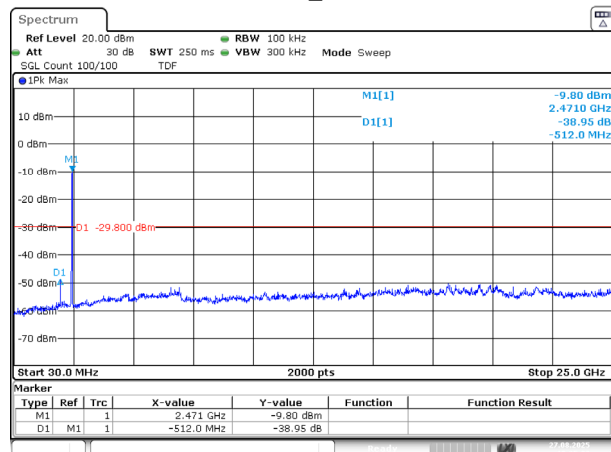
ProjectNo.:2507W20891E-RF Tester:Braylon Ma
Date: 27.AUG.2025 19:17:55

802.11n40_2437MHz



ProjectNo.:2507W20891E-RF Tester:Braylon Ma
Date: 27.AUG.2025 19:21:28

802.11n40_2452MHz

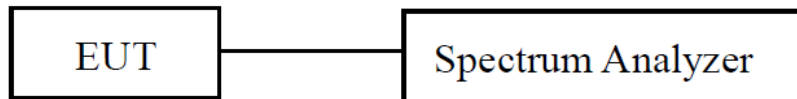


ProjectNo.:2507W20891E-RF Tester:Braylon Ma
Date: 27.AUG.2025 19:25:02

FCC §15.247(a) (2) – 6 dB EMISSION BANDWIDTH

Applicable Standard

Systems using digital modulation techniques may operate in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

EUT Setup

Note: A short RF cable with low cable loss connected to the EUT antenna port. The insert loss of this RF cable was offset into the setting of test equipment:

Offset = Insert loss of RF cable

★ The Insert loss was declared by manufacturer.

Test Procedure

According to ANSI C63.10-2020 Section 11.8

- a) Set RBW = shall be in the range of 1% to 5% of the OBW but not less than 100 kHz.
- b) Set the VBW $\geq [3 \times \text{RBW}]$.
- c) Detector = peak.
- d) Trace mode = max-hold.
- e) Sweep = No faster than coupled (auto) time.
- f) Allow the trace to stabilize.
- g) Measure the maximum width of the emission by placing two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the “–6 dB down amplitude”. If a marker is below this “–6 dB down amplitude” value, then it shall be as close as possible to this value.

Test Data

Test Mode:	Transmitting	Test Engineer:	Braylon Ma
Test Date:	2025-08-27	Test Voltage:	DC 12V
Test Result:	Compliance	Environment:	Temp.: 24.6°C Humi.: 50% Atm :100.1kPa
Test Modes	Test Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)
802.11b	2412	9.69	0.5
	2437	10.25	0.5
	2462	9.69	0.5
802.11g	2412	16.296	0.5
	2437	16.577	0.5
	2462	16.456	0.5
802.11n ht20	2412	16.296	0.5
	2437	16.537	0.5
	2462	16.537	0.5
802.11n ht40	2422	35.075	0.5
	2437	36.837	0.5
	2452	36.196	0.5

Please refer to below plots: