



TEST REPORT

JEM ACCESSORIES INC. **Applicant Name:**

Address: 32 Brunswick Avenue, Edison, New Jersey, United

States,08817

Report Number: 2501P26598E-RF-00A FCC ID: 2AHAS-EOD11005

Test Standard (s)

FCC PART 15.247

Sample Description

Product Type: Smart 2K color night vision wired doorbell

EOD1-1005-BLK Model No.:

Multiple Model(s) No.: N/A Trade Mark: N/A

Date Received: 2025-01-15 Issue Date: 2025-04-27

Test Result: Pass▲

▲ In the configuration tested, the EUT complied with the standards above.

Prepared and Checked By:

Approved By:

Jim Cheng **RF Engineer**

Jim Cheng

Nancy Wang

RF Supervisor

Note: 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.

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
0	2501P26598E-RF-00A	Original Report	2025-04-27

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Frequency Range	2412~2462MHz
Maximum Conducted Output Peak Power	22.87dBm
Modulation Technique	DSSS, OFDM
Antenna Specification#	2.97dBi (provided by the applicant)
Voltage Range	AC 24V or DC 5V from USB Port
Sample serial number	2XKL-2 for Conducted and Radiated Emissions Test 2XKL-1 for RF Conducted Test (Assigned by BACL, Shenzhen)
Sample/EUT Status	Good condition
Adapter Information	N/A

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Note: The EUT powered by AC port or USB Port, the worst case USB port was selected to test for radiated emission below 1GHz according to 5G Wi-Fi report test result.

Objective

This test report is 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, 15.207, 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.

All emissions measurement was performed at Bay Area Compliance Laboratories Corp. (Shenzhen). The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Each test item follows test standards and with no deviation.

Measurement Uncertainty

Parameter			Uncertainty
Occupied (Occupied Channel Bandwidth		109.2kHz(k=2, 95% level of confidence)
RF output	power, co	onducted	0.86dB(k=2, 95% level of confidence)
Power S	Spectral D	ensity	0.90dB(k=2, 95% level of confidence)
AC Power Lines Cond	ucted	9kHz~150 kHz	3.63dB(k=2, 95% level of confidence)
Emissions		150 kHz ~30MHz	3.66dB(k=2, 95% level of confidence)
	0.	009MHz~30MHz	3.60dB(k=2, 95% level of confidence)
	30MHz	~200MHz (Horizontal)	5.32dB(k=2, 95% level of confidence)
	30MHz~200MHz (Vertical) 5.43dB(k=2, 95% level of confidence)		5.43dB(k=2, 95% level of confidence)
Radiated Emissions	200MHz~1000MHz (Horizontal)		5.77dB(k=2, 95% level of confidence)
Radiated Ellissions	200MHz~1000MHz (Vertical)		5.73dB(k=2, 95% level of confidence)
		1GHz - 6GHz	5.34dB(k=2, 95% level of confidence)
		6GHz - 18GHz	5.40dB(k=2, 95% level of confidence)
	18GHz - 40GHz		5.64dB(k=2, 95% level of confidence)
Temperature		2	±1°C
I	Humidity		±1%
Supply voltages		ges	$\pm 0.4\%$

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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.

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Shenzhen) to collect test data is located on the 5F(B-West), 6F, 7F, the 3rd Phase of Wan Li Industrial Building D, Shihua Rd, FuTian Free Trade Zone, Shenzhen, China.

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.: 715558, the FCC Designation No.: CN5045.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

For 2.4GHz Wi-Fi mode, total 11 channels are provided to testing:

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

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802.11b, 802.11g and 802.11n-HT20 mode was tested with Channel 1, 6 and 11.

802.11n-HT40 mode was tested with Channel 3, 6 and 9.

EUT Exercise Software

E o i Endidos o o o o o o o o o o o o o o o o o o					
Exercise Software [#]		SecureCRT			
M 1 D ()		Power Level [#]			
Mode	Data rate	Low Channel	Middle Channel	High Channel	
802.11b	1Mbps	-7	-7	-7	
802.11g	6Mbps	-3	-3	-3	
802.11n20	MCS0	-3	-3	-3	
802.11n40	MCS0	-10	-10	-10	

Note: The worst-case data rates are determined to be as follows for each mode based upon inverstigation by measuring the power and PSD across all data rates bandwidths, and modulations.

Special Accessories

No special accessory.

Equipment Modifications

No modification was made to the EUT tested.

Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
Unknown	Receptacle	Unknown	Unknown
Qingliu	Adapter	QL010-0502000UU	Unknown
Unknown	SD Card	Unknown	Unknown
HELLVIAO	Contact voltage regulator	TDGC2-5KVA	Unknown

External I/O Cable

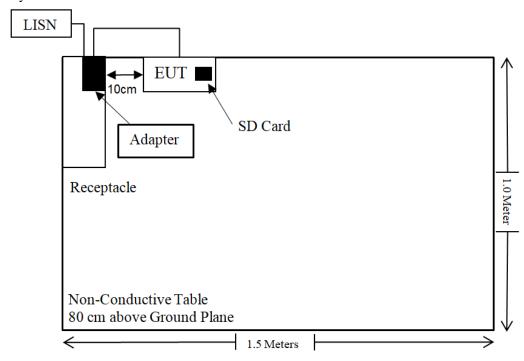
Cable Description	Length (m)	From Port	То
Un-shielding Detachable USB Cable	0.8	EUT	Adapter
Shielded Un-detachable AC Cable	1.5	Receptacle	LISN/AC Mains
Un-shielding Detachable AC Cable	2.0	EUT	LISN
Un-shielding Detachable AC Cable	2.0	LISN	Contact voltage regulator
Un-shielding Detachable AC Cable	1.0	AC Mains	Contact voltage regulator

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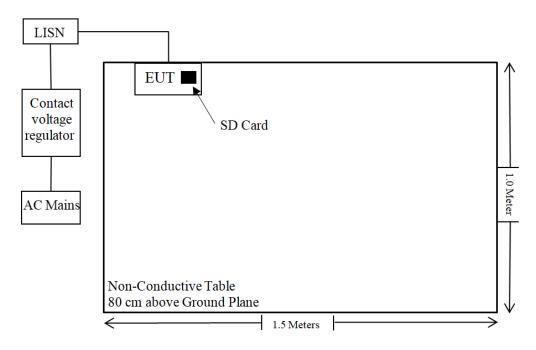
Block Diagram of Test Setup

For Conducted Emissions:

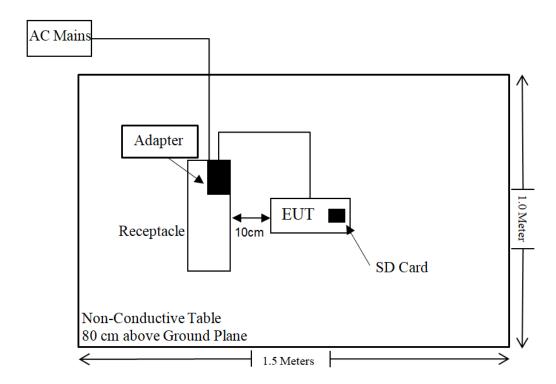
Powered by USB Port:



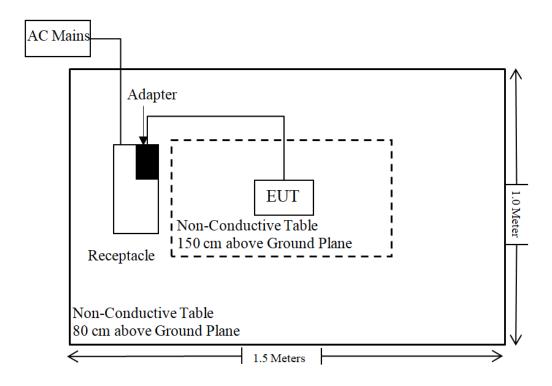
Powered by AC Port:



For Radiated Emissions below 1GHz:



For Radiated Emissions above 1GHz:



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
FCC §15.203	Antenna Requirement	Compliant
FCC §15.207(a)	AC Line Conducted Emissions	Compliant
FCC §15.205,§15.209,§15.247(d)	Radiated Spurious Emission	Compliant
FCC §15.207(a)(2)	6dB Emission Bandwidth	Compliant
FCC §15.247(b)(1)	Maximum Conducted Output Power	Compliant
FCC §15.247(d)	100 kHz Bandwidth of Frequency Band Edge	Compliant
FCC §15.247(e)	Power Spectral Density	Compliant
C63.10 §11.6	Duty Cycle	/
FCC §1.1307&§2.1091&§15.247 (i)	MPE-Based Exemption	Compliant

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date	
Conducted Emission Test						
Rohde & Schwarz	EMI Test Receiver	ESCI	101120	2024/12/04	2025/12/03	
Rohde & Schwarz	Transient Limiter	ESH3Z2	DE25985	2024/05/21	2025/05/20	
Rohde & Schwarz	LISN	ENV216	101613	2024/12/04	2025/12/03	
Unknown	CE Cable	Unknown	UF A210B-1- 0720-504504	2024/05/21	2025/05/20	
Audix	EMI Test software	E3	191218(V9)	NCR	NCR	
		Radiated Emissi	on Test			
Rohde & Schwarz	EMI Test Receiver	ESR3	102455	2024/12/04	2025/12/03	
Sonoma instrument	Pre-amplifier	310N	186238	2024/05/21	2025/05/20	
Sunol Sciences	Broadband Antenna	ЈВ1	A040904-1	2023/07/20	2026/07/19	
Unknown	Cable	Chamber Cable	F-03-EM236	2024/06/18	2025/06/17	
Unknown	Cable	XH500C	J-10M-A	2024/06/18	2025/06/17	
BACL	Active Loop Antenna	1313-1A	4031911	2024/05/14	2027/05/13	
Unknown	Cable	2Y194	0735	2024/12/04	2025/12/03	
Unknown	Cable	PNG214	1354	2024/12/04	2025/12/03	
Audix	EMI Test software	E3	19821b(V9)	NCR	NCR	
Rohde&Schwarz	Spectrum Analyzer	FSV40	101605	2024/03/27	2025/03/26	
A.H.System	Preamplifier	PAM-0118P	489	2024/11/15	2025/11/14	
Schwarzbeck	Horn Antenna	BBHA9120D(1 201)	1143	2023/07/26	2026/07/25	
Unknown	RF Cable	KMSE	0735	2024/12/06	2025/12/05	
Unknown	RF Cable	UFA147	219661	2024/12/06	2025/12/05	
Unknown	RF Cable	XH750A-N	J-10M	2024/12/06	2025/12/05	
JD	Filter Switch Unit	DT7220FSU	DS79906	2024/09/09	2025/09/08	
JD	Multiplex Switch Test Control Set	DT7220SCU	DS79903	2024/09/09	2025/09/08	
A.H.System	Pre-amplifier	PAM-1840VH	190	2024/06/18	2025/06/17	
Electro-Mechanics Co	Horn Antenna	3116	9510-2270	2023/09/18	2026/09/17	
UTIFLEX	RF Cable	NO. 13	232308-001	2024/12/18	2025/12/17	
Audix	EMI Test software	E3	191218(V9)	NCR	NCR	

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
	RF Conducted Test				
ANRITSU	Microwave peak power sensor	MA24418A	12622	2024/05/21	2025/05/20
Rohde&Schwarz	Spectrum Analyzer	FSV40-N	102259	2024/12/04	2025/12/03
Unknown	10dB Attenuator	Unknown	F-03-EM014	2024/06/27	2025/06/26

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

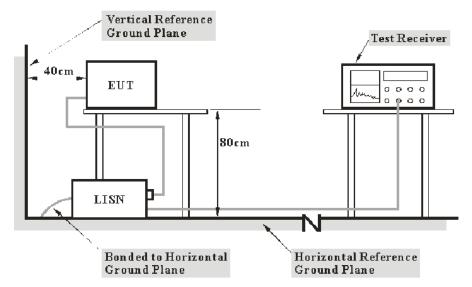
REQUIREMENTS AND TEST PROCEDURES

AC Line Conducted Emissions

Applicable Standard

FCC§15.207

EUT Setup



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Note: 1. Support units were connected to second LISN.

2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The setup of EUT is according with per ANSI C63.10-2020 measurement procedure. The specification used was with the FCC Part 15.207 limits.

The spacing between the peripherals was 10 cm.

EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	IF B/W
150 kHz – 30 MHz	9 kHz

Test Procedure

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All final data was recorded in the Quasi-peak and average detection mode.

Factor & Over Limit Calculation

The factor is calculated by adding LISN VDF (Voltage Division Factor) and Cable Loss. The basic equation is as follows:

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Factor = LISN VDF + Cable Loss
```

The "Over Limit" column of the following data tables indicates the degree of compliance with the applicable limit. For example, an over limit of -7 dB means the emission is 7 dB below the limit. The equation for margin calculation is as follows:

```
Over Limit = level – Limit
Level= reading level+ Factor
```

Note: The term "cable loss" refers to the combination of a cable and a 10dB transient limiter (attenuator).

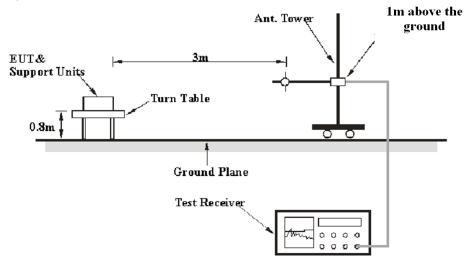
Spurious Emissions

Applicable Standard

FCC §15.247 (d); §15.209; §15.205;

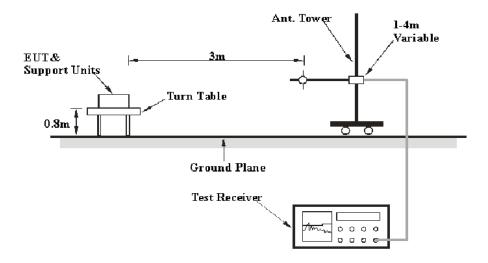
EUT Setup

9 kHz-30MHz:

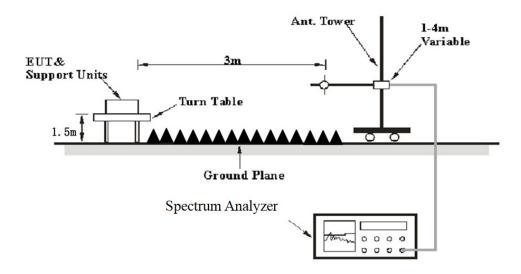


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30MHz-1GHz:



Above 1GHz:



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The radiated emission performed in the 3 meters, using the setup accordance with the ANSI C63.10-2020. The specification used was the FCC 15.209, FCC 15.247 limits.

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:

9 kHz-1GHz:

Frequency Range	RBW	Video B/W	IF B/W	Measurement	Detector
9 kHz – 150 kHz	/	/	200 Hz	QP	QP
9 KHZ — 130 KHZ	300 Hz	1 kHz	/	PK	Peak
1501H 20MH	/	/	9 kHz	QP	QP
150 kHz – 30 MHz	10 kHz	30 kHz	/	PK	Peak
30 MHz – 1000 MHz	/	/	120 kHz	QP	QP
30 MIZ – 1000 MIZ	100 kHz	300 kHz	/	PK	Peak

1-25GHz: Pre-scan

Measurement	Duty cycle	RBW	Video B/W	Detector
PK	Any	1MHz	3 MHz	Peak
A 7.7	>98%	1MHz	1 kHz	Peak
AV	<98%	1MHz	≥1/Ton	Peak

Final measurement for emission identified during pre-scan

Measurement	Duty cycle	RBW	Video B/W	Detector
PK	Any	1MHz	3 MHz	Peak
A 3.7	>98%	1MHz	10 Hz	Peak
AV	<98%	1MHz	≥1/Ton	Peak

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Note: Ton is minimum transmission duration

If the maximized peak measured value complies with under the QP/Average limit more than 6dB, then it is unnecessary to perform an QP/Average measurement.

Test Procedure

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

All final data was recorded in Quasi-peak detection mode except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz, average detection modes for frequency bands 9–90 kHz and 110–490 kHz, peak and average detection modes for frequencies above 1 GHz.

For 9 kHz-30MHz, 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.

All emissions under the average limit and under the noise floor have not recorded in the report.

Factor & Over Limit/Margin Calculation

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

Factor = Antenna Factor + Cable Loss - Amplifier Gain

The "Over Limit/Margin" column of the following data tables indicates the degree of compliance with the applicable limit. For example, an Over Limit/margin of -7dB means the emission is 7dB below the limit. The equation for calculation is as follows:

Over Limit/Margin = Level/Corrected Amplitude – Limit Level / Corrected Amplitude = Read Level + Factor

6 dB Emission Bandwidth

Applicable Standard

According to FCC §15.247(a) (2)

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.

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Test Procedure

Test Method: ANSI C63.10-2020 Clause 11.8.1 & Clause 6.9.3

The steps for the first option are as follows:

- 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 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.

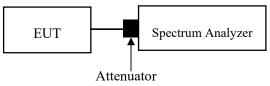
The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission. The following procedure shall be used for measuring 99% power bandwidth:

- a) The instrument center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be between 1.5 times and 5.0 times the OBW.
- b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW, and VBW shall be at least three times the RBW, unless otherwise specified by the applicable requirement.
- c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than [10 log (OBW/RBW)] below the reference level. Specific guidance is given in 4.1.6.2.
- d) Step a) through step c) might require iteration to adjust within the specified range.
- e) Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max-hold mode (until the trace stabilizes) shall be used.
- f) Use the 99% power bandwidth function of the instrument (if available) and report the measured bandwidth.

g) If the instrument does not have a 99% power bandwidth function, then the trace data points are recovered and directly summed in linear power terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5% of the total is reached; that frequency is recorded as the upper frequency. The 99% power bandwidth is the difference between these two frequencies.

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h) The occupied bandwidth shall be reported by providing spectral plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).



Maximum Conducted Output Power

Applicable Standard

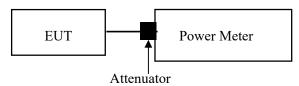
According to FCC §15.247(b) (3), for systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

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Test method: ANSI C63.10-2020 clause 11.9.1.2 for peak power method or clause 11.9.2.3.2 for average power method.

- 1. Place the EUT on a bench and set it in transmitting mode.
- 2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to one test equipment.
- 3. Add a correction factor to the display.



Note: A short RF cable with low cable loss connected to the EUT antenna port, which was provided by client or lab, the cable loss was add with offset into test equipment, the total offset consists of attenuator and/or RF cable and/or power splitter loss

100 kHz Bandwidth of Frequency Band Edge

Applicable Standard

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)).

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Test Procedure

Test Method: ANSI C63.10-2020 Clause 11.11.3

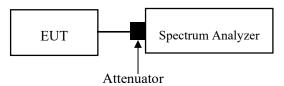
Establish an emission level by using the following procedure:

a) Set the center frequency and span to encompass frequency range to be measured. Note that the frequency range might need to be divided into multiple frequency ranges to retain frequency resolution.

NOTE—the number of points can also be increased for large spans to retain frequency resolution

- b) Set the RBW = 100 kHz.
- c) Set the VBW \geq [3 \times RBW].
- d) Detector = peak.
- e) Sweep time = No faster than coupled (auto) time.
- f) Trace mode = max-hold.
- g) Allow trace to fully stabilize.
- h) Use the peak marker function to determine the maximum amplitude level.

Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) is attenuated by at least the minimum requirements specified in 11.11. Report the three highest emissions relative to the limit.



Power Spectral Density

Applicable Standard

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. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

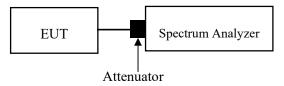
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Test Procedure

Test Method: ANSI C63.10-2020 Clause 11.10.2

The following procedure shall be used if maximum peak conducted output power was used to determine compliance, and it is optional if the maximum conducted (average) output power was used to determine compliance:

- a) Set analyzer center frequency to DTS channel center frequency.
- b) Set the span >1.5 times the DTS bandwidth.
- c) Set the RBW to $3 \text{ kHz} \le \text{RBW} \le 100 \text{ kHz}$.
- d) Set the VBW \geq [3 \times RBW].
- e) Detector = peak.
- f) Sweep time = No faster than coupled (auto) time.
- g) Trace mode = max-hold.
- h) Allow trace to fully stabilize.
- i) Use the peak marker function to determine the maximum amplitude level within the RBW.
- j) If measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat.



Note: A short RF cable with low cable loss connected to the EUT antenna port, which was provided by client or lab, the cable loss was add with offset into test equipment, the total offset consists of attenuator and/or RF cable and/or power splitter loss

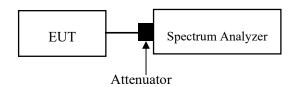
Duty Cycle

Test Procedure

According to ANSI C63.10-2020 Section 11.6

Measurements of duty cycle and transmission duration shall be performed using one of the following techniques:

- a) A diode detector and an oscilloscope that together have a sufficiently short response time to permit accurate measurements of the ON and OFF times of the transmitted signal.
- b) The zero-span mode on a spectrum analyzer or EMI receiver if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the ON and OFF times of the transmitted signal:
- 1) Set the center frequency of the instrument to the center frequency of the transmission.
- 2) Set RBW \geq OBW if possible; otherwise, set RBW to the largest available value.
- 3) Set $VBW \ge RBW$. Set detector = peak or average.
- 4) The zero-span measurement method shall not be used unless both RBW and VBW are > 50/T and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring the duty cycle shall not be used if T $\le 16.7 \,\mu s$.)



ANTENNA REQUIREMENT

Applicable Standard

According to FCC § 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 use of a standard antenna jack or electrical connector is prohibited.

Report No.: 2501P26598E-RF-00A

Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

Antenna Connector Construction

The EUT has one internal antenna arrangement, which was permanently attached, the antenna gain[#] is 2.97dBi, fulfill the requirement of this section. Please refer to the EUT photos.

Result: Compliant

TEST DATA AND RESULTS

AC Line Conducted Emissions

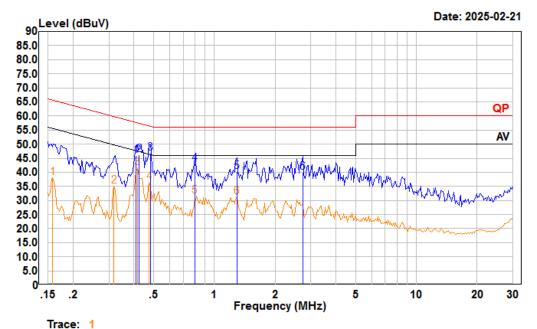
Environmental Conditions

Temperature (°C)	22.2-25.2	Relative Humidity (%)	49-51				
ATM Pressure (kPa)	101.2-101.4	Test engineer	Macy shi				
Test date	2025.2.21-2025.3.31	2025.2.21-2025.3.31					
EUT operation mode	Transmitting(Maximum output power mode, 802.11n-HT20 Mode High Channel)						

Powered by USB Port:

AC 120V 60 Hz, Line

Report No.: 2501P26598E-RF-00A



Condition: Line

Project : 2501P26598E-RF

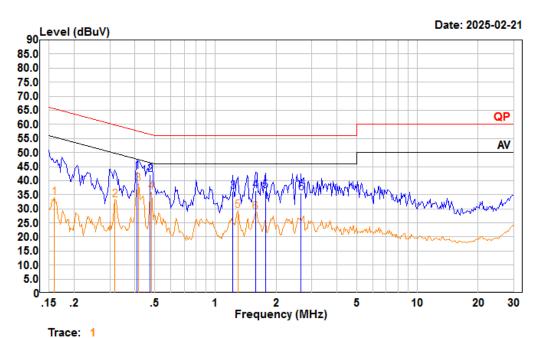
tester : Macy.shi Note:Transmitting

Setting : RBW:9kHz VBW:30KHz Detector Peak/AV

		Read		LISN	Cable	Limit	0ver	
	Freq	Level	Level	Factor	Loss	Line	Limit	Remark
	MHz	dBuV	dBuV	dB	dB	dBuV	dB	
1	0.410	25.33	45.97	10.54	10.10	57.64	-11.67	QP
2	0.424	25.61	46.26	10.54	10.11	57.37	-11.11	QP
3	0.481	26.11	46.75	10.51	10.13	56.32	-9.57	QP
4	0.800	21.98	42.89	10.79	10.12	56.00	-13.11	QP
5	1.289	19.28	40.21	10.78	10.15	56.00	-15.79	QP
6	2.736	18.73	39.91	11.01	10.17	56.00	-16.09	QP
		Read		LISN	Cable	Limit	0ver	
	Freq	Level	Level	Factor	Loss	Line	Limit	Remark
	MHz	dBuV	dBuV	dB	dB	dBuV	dB	
1	0.158	17.49	38.08	10.47	10.12	55.56	-17.48	Average
2	0.318	14.39	35.15	10.65	10.11	49.75	-14.60	Average
3	0.415	21.00	41.67	10.56	10.11	47.55	-5.88	Average
4	0.476	15.88	36.53	10.52	10.13	46.41	-9.88	Average
5	0.800	10.80	31.60	10.68	10.12	46.00	-14.40	Average
6	1.289	10.26	31.17	10.76	10.15	46.00	-14.83	Average

AC 120V 60 Hz, Neutral

Report No.: 2501P26598E-RF-00A



Condition: Neutral

Project : 2501P26598E-RF

tester : Macy.shi Note:Transmitting

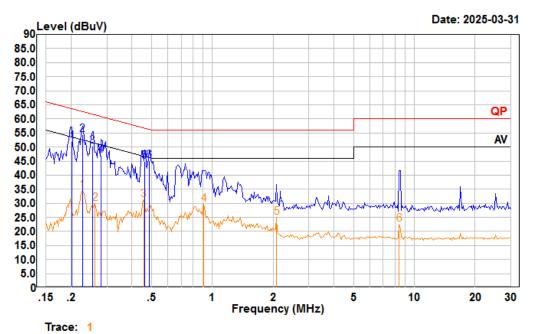
Setting : RBW:9kHz VBW:30KHz Detector Peak/AV

		Read		LISN	Cable	Limit	0ver	
	Freq	Level	Level	Factor	Loss	Line	Limit	Remark
	MHz	dBuV	dBuV	dB	dB	dBuV	dB	
1	0.410	22.51	43.17	10.56	10.10	57.64	-14.47	QP
2	0.476	21.60	42.25	10.52	10.13	56.41	-14.16	QP
3	1.223	15.30	36.21	10.77	10.14	56.00	-19.79	QP
4	1.577	15.61	36.50	10.73	10.16	56.00	-19.50	QP
5	1.772	15.59	36.49	10.72	10.18	56.00	-19.51	QP
6	2.650	14.70	35.69	10.82	10.17	56.00	-20.31	QP
		Read		LISN	Cable	Limit	0ver	
	Freq	Level	Level	Factor	Loss	Line	Limit	Remark
	MHz	dBuV	dBuV	dB	dB	dBuV	dB	
1	0.160	13.39	34.00	10.49	10.12	55.47	-21.47	Average
2	0.318	12.50	33.26	10.65	10.11	49.75	-16.49	Average
3	0.415	18.15	38.82	10.56	10.11	47.55	-8.73	Average
4	0.481	15.17	35.81	10.51	10.13	46.32	-10.51	Average
5	1.289	8.49	29.40	10.76	10.15	46.00	-16.60	Average
6	1.577	7.89	28.78	10.73	10.16	46.00	-17.22	Average

Powered by AC Port:

AC 24V, Line

Report No.: 2501P26598E-RF-00A



Condition: Line

Project : 2501P26598E-RF

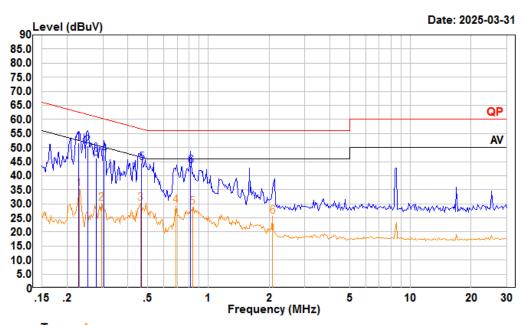
tester : Macy.shi Note:Transmitting

Setting : RBW:9kHz

		Read		LISN	Cable	Limit	0ver	
	Freq	Level	Level	Factor	Loss	Line	Limit	Remark
	MHz	dBuV	dBuV	dB	dB	dBuV	dB	
1	0.202	31.90	51.90	9.91	10.09	63.54	-11.64	QP
2	0.227	34.41	54.47	9.98	10.08	62.57	-8.10	QP
3	0.255	30.30	50.44	10.06	10.08	61.60	-11.16	QP
4	0.280	26.70	46.92	10.12	10.10	60.81	-13.89	QP
5	0.461	24.40	44.97	10.45	10.12	56.67	-11.70	QP
6	0.486	24.61	45.22	10.48	10.13	56.23	-11.01	QP
		Read		LISN	Cable	Limit	0ver	
	Freq	Level	Level	Factor	Loss	Line	Limit	Remark
	MHz	dBuV	dBuV	dB	dB	dBuV	dB	
1	0.227	14.35	34.41	9.98	10.08	52.57	-18.16	Average
2	0.263	9.62	29.79	10.08	10.09	51.34	-21.55	Average
3	0.456	10.65	31.21	10.44	10.12	46.76	-15.55	Average
4	0.909	8.91	29.64	10.63	10.10	46.00	-16.36	Average
5	2.077	4.65	25.12	10.28	10.19	46.00	-20.88	Average
6	8.412	1.93	22.58	10.45	10.20	50.00	-27.42	Average

AC 24V, Neutral

Report No.: 2501P26598E-RF-00A



Trace: 1

Condition: Neutral

Project : 2501P26598E-RF

tester : Macy.shi Note:Transmitting

Setting : RBW:9kHz

		Read		LISN	Cable	Limit	0ver	
	Freq	Level	Level	Factor	Loss	Line	Limit	Remark
	MHz	dBuV	dBuV	dB	dB	dBuV	dB	
1	0.227	31.50	51.75	10.17	10.08	62.57	-10.82	QP
2	0.252	30.20	50.51	10.23	10.08	61.69	-11.18	QP
3	0.277	25.89	46.27	10.28	10.10	60.90	-14.63	QP
4	0.305	26.90	47.34	10.33	10.11	60.10	-12.76	QP
5	0.466	23.80	44.49	10.56	10.13	56.58	-12.09	QP
6	0.817	22.79	43.50	10.59	10.12	56.00	-12.50	QP
		Read		LISN	Cable	Limit	0ver	
	Freq	Level	Level	Factor	Loss	Line	Limit	Remark
	MHz	dBuV	dBuV	dB	dB	dBuV	dB	
1	0.229	15.12	35.37	10.17	10.08	52.48	-17.11	Average
2	0.296	9.66	30.08	10.31	10.11	50.37	-20.29	Average
3	0.461	9.60	30.28	10.56	10.12	46.67	-16.39	Average
4	0.690	8.64	29.29	10.50	10.15	46.00	-16.71	Average
5	0.835	8.24	28.95	10.60	10.11	46.00	-17.05	Average
6	2.077	5.00	25.48	10.29	10.19	46.00	-20.52	Average

Spurious Emissions

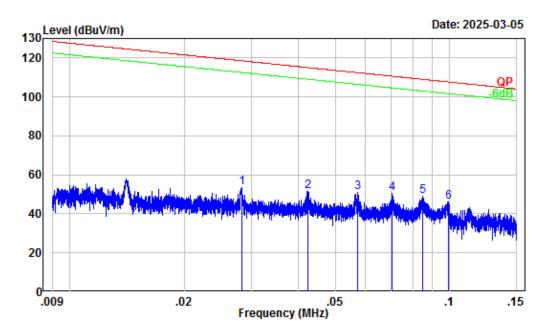
Environmental Conditions

Temperature (°C)	23.6-25.2	Relative Humidity (%)	37-55				
ATM Pressure (kPa):	100.8-101.5	Test engineer:	Alex Yan&Zenos Qiao				
Test date:	2025.3.1-2025.3.5						
EUT operation mode:	Below 1GHz: Transmitting(Maximum output power mode, 802.11n20 High Channel) Above 1GHz: Transmitting						
Note:	recorded. 2. When the test result o just peak value were recorded.	f peak was less than the li orded. X, Y and Z axes of orienta	Hz, only the worst case (parallel) was mit of QP/Average more than 6dB, ation, the worst case y-axis of				

Below 1GHz:

9kHz-150kHz

Report No.: 2501P26598E-RF-00A



Site : Chamber A

Condition : 3m

Project Number : 2501P26598E-RF

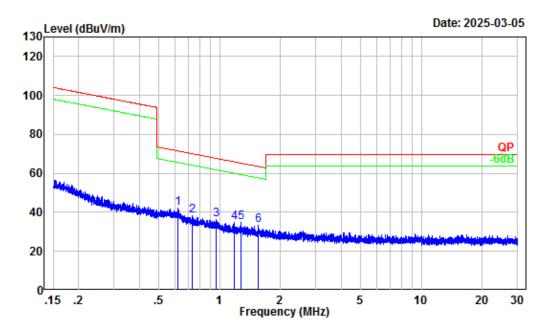
Test Mode : 2.4G WIFI Transmitting

Detector: Peak RBW/VBW: 0.3/1KHz Tester : Alex Yan

	Freq	Factor			Limit Line		Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.03	28.82	24.87	53.69	118.56	-64.87	Peak
2	0.04	27.20	24.41	51.61	115.05	-63.44	Peak
3	0.06	25.67	25.38	51.05	112.44	-61.39	Peak
4	0.07	24.36	25.94	50.30	110.65	-60.35	Peak
5	0.08	23.07	26.05	49.12	109.04	-59.92	Peak
6	0.10	22.07	23.97	46.04	107.69	-61.65	Peak

150kHz-30MHz

Report No.: 2501P26598E-RF-00A



Site : Chamber A

Condition : 3m

Project Number : 2501P26598E-RF

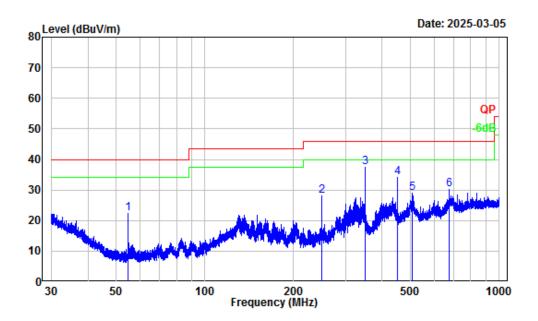
Test Mode : 2.4G WIFI Transmitting

Detector: Peak RBW/VBW: 10/30KHz Tester : Alex Yan

	F	F4			Limit		Dama ala
	Freq	Factor	rever	revel	Line	Limit	Kemark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.62	4.92	37.02	41.94	71.71	-29.77	Peak
2	0.73	3.57	34.53	38.10	70.27	-32.17	Peak
3	0.96	1.49	34.75	36.24	67.82	-31.58	Peak
4	1.18	0.70	34.21	34.91	66.01	-31.10	Peak
5	1.28	0.41	34.26	34.67	65.27	-30.60	Peak
6	1.56	-0.37	33.65	33.28	63.52	-30.24	Peak

30MHz-1GHz_Horizontal

Report No.: 2501P26598E-RF-00A



Site : Chamber A
Condition : 3m Horizontal
Project Number : 2501P26598E-RF

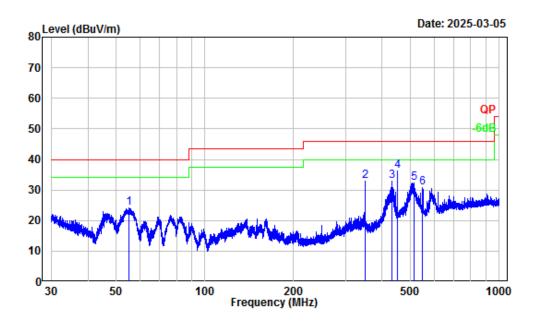
Test Mode : 2.4G WIFI Transmitting

Detector: Peak RBW/VBW: 100/300kHz Tester : Alex Yan

			Read		Limit	0ver	
	Freq	Factor	Level	Level	Line	Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	54.88	-18.31	40.65	22.34	40.00	-17.66	Peak
2	249.97	-13.09	41.19	28.10	46.00	-17.90	Peak
3	350.02	-10.16	47.44	37.28	46.00	-8.72	Peak
4	450.15	-7.53	41.56	34.03	46.00	-11.97	Peak
5	505.59	-5.77	34.76	28.99	46.00	-17.01	Peak
6	675.21	-3.82	33.87	30.05	46.00	-15.95	Peak

30MHz-1GHz_Vertical

Report No.: 2501P26598E-RF-00A



Site : Chamber A
Condition : 3m Vertical
Project Number : 2501P26598E-RF

Test Mode : 2.4G WIFI Transmitting

Detector: Peak RBW/VBW: 100/300kHz Tester : Alex Yan

			Read		Limit	0ver	
	Freq	Factor	Level	Level	Line	Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	54.98	-18.31	42.33	24.02	40.00	-15.98	Peak
2	350.02	-10.16	43.00	32.84	46.00	-13.16	Peak
3	432.93	-7.77	40.64	32.87	46.00	-13.13	Peak
4	450.15	-7.53	43.68	36.15	46.00	-9.85	Peak
5	512.51	-5.83	38.07	32.24	46.00	-13.76	Peak
6	549.98	-5.43	36.15	30.72	46.00	-15.28	Peak

Above 1GHz:

Above IGH	Z :						
Frequency (MHz)	Reading (dBμV)	PK/Ave	Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)
			802	.11b			
			Low C	Channel			
4824.00	63.25	PK	Н	-7.75	55.50	74	-18.50
4824.00	58.71	AV	Н	-7.75	50.96	54	-3.04
4824.00	61.68	PK	V	-7.75	53.93	74	-20.07
4824.00	57.87	AV	V	-7.75	50.12	54	-3.88
			Middle	Channel	1		
4874.00	62.74	PK	Н	-7.61	55.13	74	-18.87
4874.00	58.19	AV	Н	-7.61	50.58	54	-3.42
4874.00	61.22	PK	V	-7.61	53.61	74	-20.39
4874.00	57.36	AV	V	-7.61	49.75	54	-4.25
			High (Channel			
4924.00	62.02	PK	Н	-7.57	54.45	74	-19.55
4924.00	57.68	AV	Н	-7.57	50.11	54	-3.89
4924.00	60.47	PK	V	-7.57	52.90	74	-21.10
4924.00	56.85	AV	V	-7.57	49.28	54	-4.72
			802	.11g			
			Low C	Channel			
4824.00	61.38	PK	Н	-7.75	53.63	74	-20.37
4824.00	48.27	AV	Н	-7.75	40.52	54	-13.48
4824.00	59.86	PK	V	-7.75	52.11	74	-21.89
4824.00	47.44	AV	V	-7.75	39.69	54	-14.31
			Middle	Channel			
4874.00	60.64	PK	Н	-7.61	53.03	74	-20.97
4874.00	47.53	AV	Н	-7.61	39.92	54	-14.08
4874.00	59.12	PK	V	-7.61	51.51	74	-22.49
4874.00	46.71	AV	V	-7.61	39.10	54	-14.90
			High (Channel			
4924.00	59.73	PK	Н	-7.57	52.16	74	-21.84
4924.00	46.91	AV	Н	-7.57	39.34	54	-14.66
4924.00	58.20	PK	V	-7.57	50.63	74	-23.37
4924.00	46.09	AV	V	-7.57	38.52	54	-15.48

Frequency (MHz)	Reading (dBμV)	PK/Ave	Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)	
			802.	11n20				
			Low C	Channel				
4824.00	61.07	PK	Н	-7.75	53.32	74	-20.68	
4824.00	47.96	AV	Н	-7.75	40.21	54	-13.79	
4824.00	59.53	PK	V	-7.75	51.78	74	-22.22	
4824.00	47.15	AV	V	-7.75	39.40	54	-14.60	
			Middle	Channel				
4874.00	60.38	PK	Н	-7.61	52.77	74	-21.23	
4874.00	47.25	AV	Н	-7.61	39.64	54	-14.36	
4874.00	58.84	PK	V	-7.61	51.23	74	-22.77	
4874.00	46.42	AV	V	-7.61	38.81	54	-15.19	
High Channel								
4924.00	59.27	PK	Н	-7.57	51.70	74	-22.30	
4924.00	46.68	AV	Н	-7.57	39.11	54	-14.89	
4924.00	57.74	PK	V	-7.57	50.17	74	-23.83	
4924.00	45.85	AV	V	-7.57	38.28	54	-15.72	
			802.	11n40				
			Low C	Channel				
4844.00	57.64	PK	Н	-7.72	49.92	74	-24.08	
4844.00	42.30	AV	Н	-7.72	34.58	54	-19.42	
4844.00	56.12	PK	V	-7.72	48.40	74	-25.60	
4844.00	41.49	AV	V	-7.72	33.77	54	-20.23	
			Middle	Channel				
4874.00	56.79	PK	Н	-7.61	49.18	74	-24.82	
4874.00	41.86	AV	Н	-7.61	34.25	54	-19.75	
4874.00	55.28	PK	V	-7.61	47.67	74	-26.33	
4874.00	41.05	AV	V	-7.61	33.44	54	-20.56	
			High (Channel				
4904.00	56.18	PK	Н	-7.53	48.65	74	-25.35	
4904.00	41.54	AV	Н	-7.53	34.01	54	-19.99	
4904.00	54.67	PK	V	-7.53	47.14	74	-26.86	
4904.00	40.72	AV	V	-7.53	33.19	54	-20.81	

Report No.: 2501P26598E-RF-00A

Note:

Corrected Factor = Antenna factor (RX) + Cable Loss – Amplifier Factor

Corrected Amplitude = Corrected Factor + Reading

Margin = Corrected. Amplitude - Limit

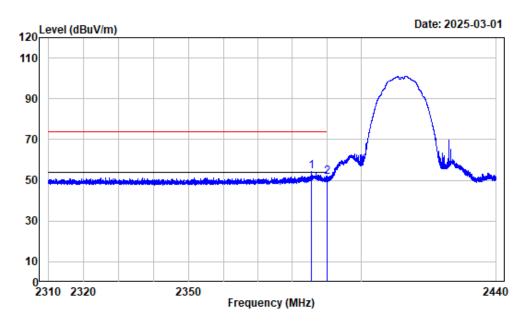
The other spurious emission which is in the noise floor level was not recorded.

For above 18GHz, the test result of peak was less than the limit of average, so just peak values were recorded.

Test plots

Left Band edge_Horizontal_Peak_802.11b_2412MHz

Report No.: 2501P26598E-RF-00A



Condition : Horizontal
Project No. : 2501P26598E-RF
Tester : Zenos Qiao

Spectrum setting: Peak reading:RBW:1MHz VBW:3MHz Detector:Peak

Note : 2.4GWiFi-b-2412

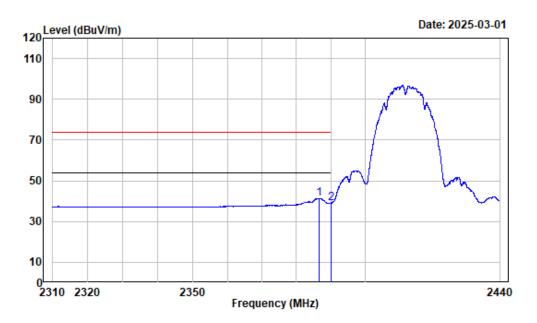
Read Limit Over
Level Level Line Limit Remark

MHz dB/m dBuV dBuV/m dBuV/m dB dB

1 2385.540 -10.97 65.10 54.13 74.00 -19.87 Peak
2 2390.000 -10.98 62.47 51.49 74.00 -22.51 Peak

Left Band edge_Horizontal_Average_802.11b_2412MHz

Report No.: 2501P26598E-RF-00A



Condition : Horizontal
Project No. : 2501P26598E-RF
Tester : Zenos Qiao

Spectrum setting: Average reading:RBW:1MHz VBW:100Hz Detector:Peak

Note : 2.4GWiFi-b-2412

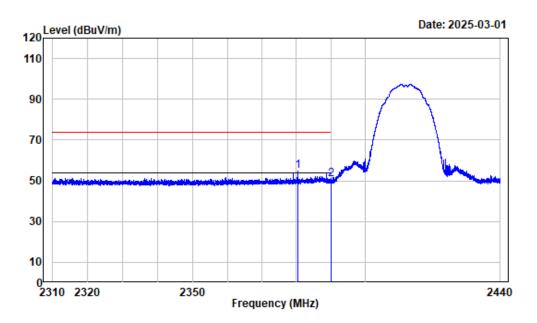
Read Limit Over
Level Level Line Limit Remark

MHz dB/m dBuV dBuV/m dBuV/m dBuV/m dB

1 2386.645 -10.97 52.40 41.43 54.00 -12.57 Average
2 2390.000 -10.98 50.09 39.11 54.00 -14.89 Average

Left Band edge Vertical Peak 802.11b 2412MHz

Report No.: 2501P26598E-RF-00A



Condition : Vertical

Project No. : 2501P26598E-RF Tester : Zenos Qiao

Spectrum setting: Peak reading:RBW:1MHz VBW:3MHz Detector:Peak

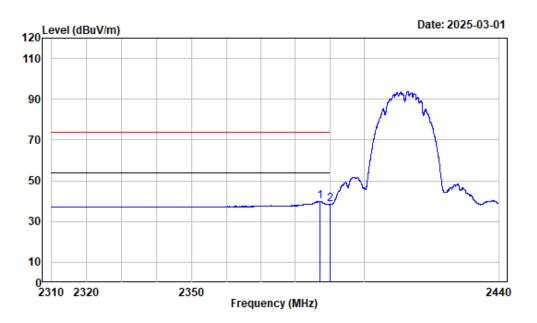
Note : 2.4GWiFi-b-2412

Read Limit Over
Level Level Line Limit Remark

MHz dB/m dBuV dBuV/m dBuV/m dB

1 2380.371 -10.96 65.77 54.81 74.00 -19.19 Peak
2 2390.000 -10.98 61.88 50.90 74.00 -23.10 Peak

Left Band edge_Vertical_Average_802.11b_2412MHz



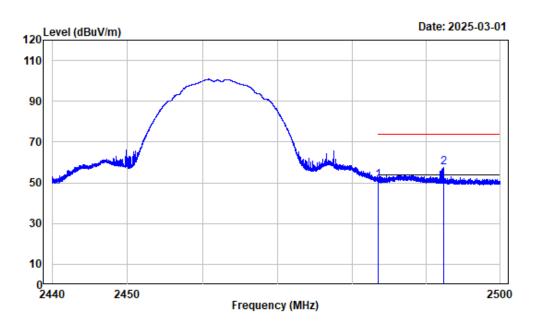
Condition : Vertical

Project No. : 2501P26598E-RF Tester : Zenos Qiao

Spectrum setting: Average reading:RBW:1MHz VBW:100Hz Detector:Peak

Note : 2.4GWiFi-b-2412

Right Band edge_Horizontal_Peak_802.11b_2462MHz

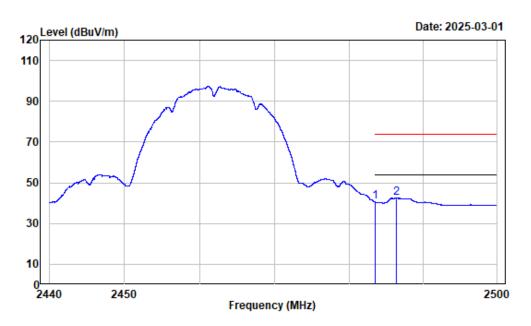


Condition : Horizontal
Project No. : 2501P26598E-RF
Tester : Zenos Qiao

Spectrum setting: Peak reading:RBW:1MHz VBW:3MHz Detector:Peak

	Freq	Factor			Limit Line		Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	2483.500	-10.97	62.10	51.13	74.00	-22.87	Peak
2	2492.312	-10.98	68.45	57.47	74.00	-16.53	Peak

Right Band edge_Horizontal_Average_802.11b_2462MHz



Condition : Horizontal
Project No. : 2501P26598E-RF
Tester : Zenos Qiao

Spectrum setting: Average reading:RBW:1MHz VBW:100Hz Detector:Peak

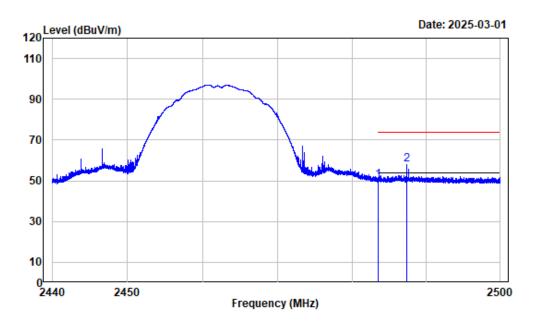
Note : 2.4GWiFi-b-2462

Read Limit Over
Level Level Line Limit Remark

MHz dB/m dBuV dBuV/m dBuV/m dB

1 2483.500 -10.97 51.55 40.58 54.00 -13.42 Average
2 2486.378 -10.97 53.57 42.60 54.00 -11.40 Average

Right Band edge_Vertical_Peak_802.11b_2462MHz



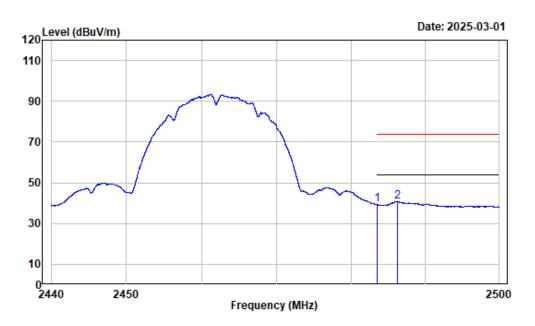
Condition : Vertical

Project No. : 2501P26598E-RF Tester : Zenos Qiao

Spectrum setting: Peak reading:RBW:1MHz VBW:3MHz Detector:Peak

	Freq	Factor			Limit Line		Remark	
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB		
1	2483.500	-10.97	61.32	50.35	74.00	-23.65	Peak	
2	2487.384	-10.97	68.78	57.81	74.00	-16.19	Peak	

Right Band edge_Vertical_Average_802.11b_2462MHz



Condition : Vertical

Project No. : 2501P26598E-RF Tester : Zenos Qiao

Spectrum setting: Average reading: RBW: 1MHz VBW: 100Hz Detector: Peak

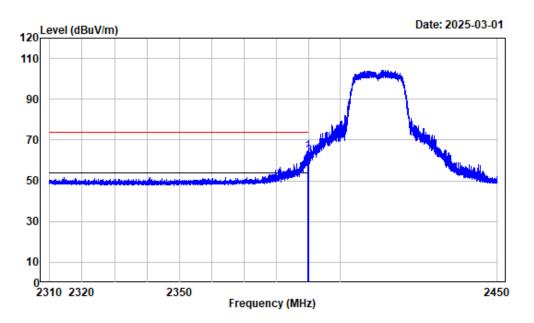
Note : 2.4GWiFi-b-2462

Read Limit Over
Level Level Line Limit Remark

MHz dB/m dBuV dBuV/m dBuV/m dB

1 2483.500 -10.97 50.26 39.29 54.00 -14.71 Average
2 2486.206 -10.97 51.73 40.76 54.00 -13.24 Average

Left Band edge_Horizontal_Peak_802.11g_2412MHz



Condition : Horizontal
Project No. : 2501P26598E-RF
Tester : Zenos Qiao

Spectrum setting: Peak reading:RBW:1MHz VBW:3MHz Detector:Peak

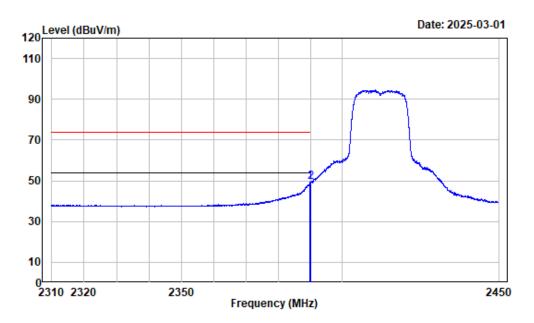
Note : 2.4GWiFi-g-2412

Read Limit Over
Freq Factor Level Level Line Limit Remark

MHz dB/m dBuV dBuV/m dBuV/m dB

1 2389.792 -10.98 75.21 64.23 74.00 -9.77 Peak
2 2390.000 -10.98 72.81 61.83 74.00 -12.17 Peak

Left Band edge_Horizontal_Average_802.11g_2412MHz



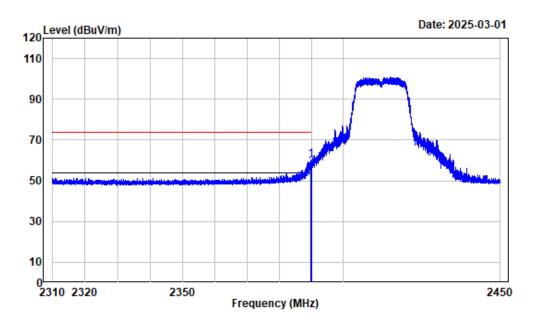
Condition : Horizontal
Project No. : 2501P26598E-RF
Tester : Zenos Qiao

Spectrum setting: Average reading:RBW:1MHz VBW:1kHz Detector:Peak

	Freq	Factor			Limit Line		Remark	
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB		
1	2389.897	-10.98	60.24	49.26	54.00	-4.74	Average	
2	2390.000	-10.98	60.13	49.15	54.00	-4.85	Average	

Left Band edge_Vertical_Peak_802.11g_2412MHz

Report No.: 2501P26598E-RF-00A



Condition : Vertical

Project No. : 2501P26598E-RF Tester : Zenos Qiao

Spectrum setting: Peak reading:RBW:1MHz VBW:3MHz Detector:Peak

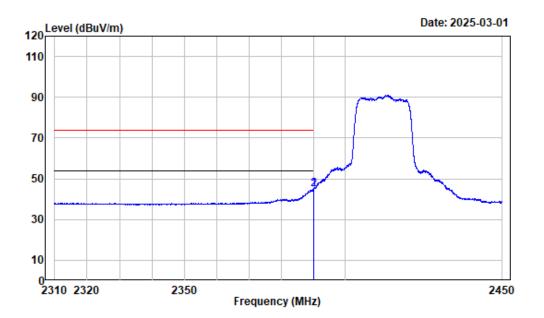
Note : 2.4GWiFi-g-2412

Read Limit Over
Freq Factor Level Level Line Limit Remark

MHz dB/m dBuV dBuV/m dBuV/m dB dB

1 2389.827 -10.98 71.20 60.22 74.00 -13.78 Peak
2 2390.000 -10.98 67.58 56.60 74.00 -17.40 Peak

Left Band edge_Vertical_Average_802.11g_2412MHz



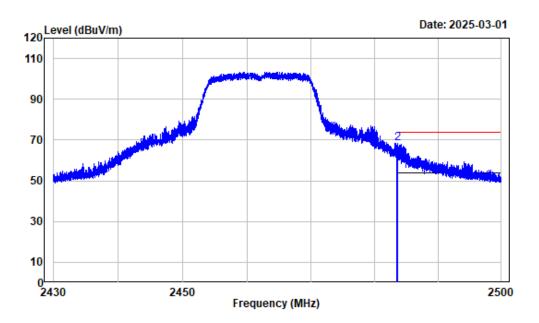
Condition : Vertical

Project No. : 2501P26598E-RF Tester : Zenos Qiao

Spectrum setting: Average reading:RBW:1MHz VBW:1kHz Detector:Peak

	Freq	Factor			Limit Line		Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	2389.985	-10.98	55.98	45.00	54.00	-9.00	Average
2	2390.000	-10.98	55.92	44.94	54.00	-9.06	Average

Right Band edge_Horizontal_Peak_802.11g_2462MHz

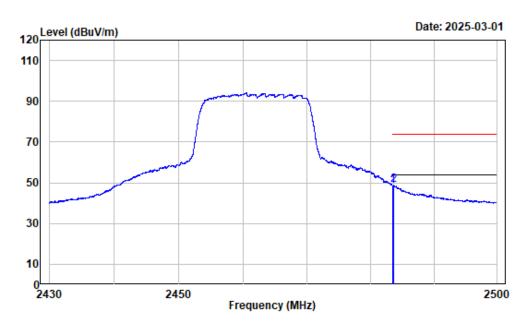


Condition : Horizontal
Project No. : 2501P26598E-RF
Tester : Zenos Qiao

Spectrum setting: Peak reading:RBW:1MHz VBW:3MHz Detector:Peak

	Freq	Factor			Limit Line		Remark	
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB		
1	2483.500	-10.97	72.40	61.43	74.00	-12.57	Peak	
2	2483.635	-10.97	79.26	68.29	74.00	-5.71	Peak	

Right Band edge_Horizontal_Average_802.11g_2462MHz

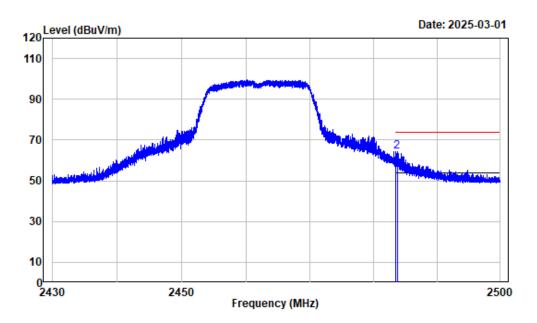


Condition : Horizontal
Project No. : 2501P26598E-RF
Tester : Zenos Qiao

Spectrum setting: Average reading:RBW:1MHz VBW:1kHz Detector:Peak

	Freq	Factor			Limit Line		Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	——dB	
1	2483.500	-10.97	59.31	48.34	54.00	-5.66	Average
2	2483.635	-10.97	59.75	48.78	54.00	-5.22	Average

Right Band edge_Vertical_Peak_802.11g_2462MHz



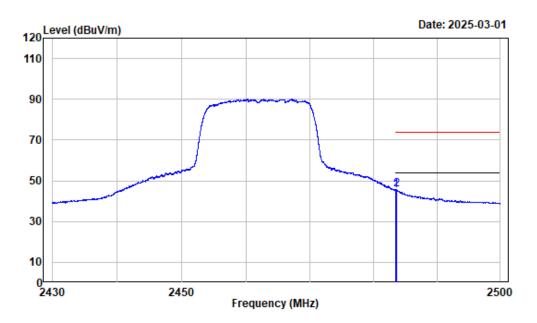
Condition : Vertical

Project No. : 2501P26598E-RF Tester : Zenos Qiao

Spectrum setting: Peak reading:RBW:1MHz VBW:3MHz Detector:Peak

	Freq	Factor			Limit Line		Remark	
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB		
1	2483.500	-10.97	68.07	57.10	74.00	-16.90	Peak	
2	2483.714	-10.97	75.23	64.26	74.00	-9.74	Peak	

Right Band edge_Vertical_Average_802.11g_2462MHz



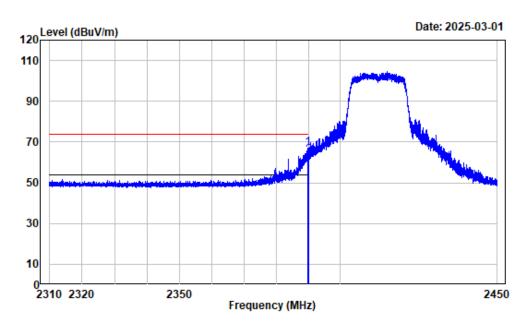
Condition : Vertical

Project No. : 2501P26598E-RF Tester : Zenos Qiao

Spectrum setting: Average reading:RBW:1MHz VBW:1kHz Detector:Peak

	Freq	Factor			Limit Line		Remark	
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB		_
1	2483.500	-10.97	56.24	45.27	54.00	-8.73	Average	
2	2483.618	-10.97	56.49	45.52	54.00	-8.48	Average	

Left Band edge Horizontal Peak 802.11n-HT20 2412MHz



Condition : Horizontal
Project No. : 2501P26598E-RF
Tester : Zenos Qiao

Spectrum setting: Peak reading:RBW:1MHz VBW:3MHz Detector:Peak

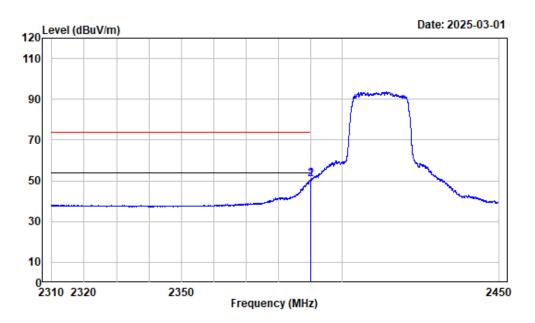
Note : 2.4GWiFi-n20-2412

Read Limit Over
Freq Factor Level Level Line Limit Remark

MHz dB/m dBuV dBuV/m dBuV/m dB

1 2389.740 -10.98 78.16 67.18 74.00 -6.82 Peak
2 2390.000 -10.98 74.44 63.46 74.00 -10.54 Peak

Left Band edge_Horizontal_Average_802.11n-HT20_2412MHz



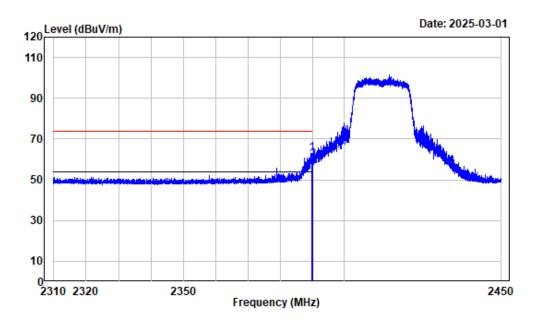
Condition : Horizontal
Project No. : 2501P26598E-RF
Tester : Zenos Qiao

Spectrum setting: Average reading:RBW:1MHz VBW:1kHz Detector:Peak

	Freq	Factor			Limit Line		Remark	
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB		_
1	2389.985	-10.98	61.57	50.59	54.00	-3.41	Average	
2	2390.000	-10.98	61.49	50.51	54.00	-3.49	Average	

Left Band edge Vertical Peak 802.11n-HT20 2412MHz

Report No.: 2501P26598E-RF-00A



Condition : Vertical

Project No. : 2501P26598E-RF Tester : Zenos Qiao

Spectrum setting: Peak reading:RBW:1MHz VBW:3MHz Detector:Peak

Note : 2.4GWiFi-n20-2412

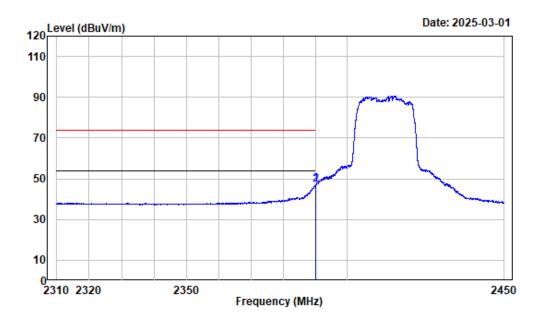
Read Limit Over
Freq Factor Level Level Line Limit Remark

MHz dB/m dBuV/m dBuV/m dBuV/m dB

1 2389.845 -10.98 73.78 62.80 74.00 -11.20 Peak
2 2390.000 -10.98 70.55 59.57 74.00 -14.43 Peak

Left Band edge_Vertical_Average_802.11n-HT20_2412MHz

Report No.: 2501P26598E-RF-00A



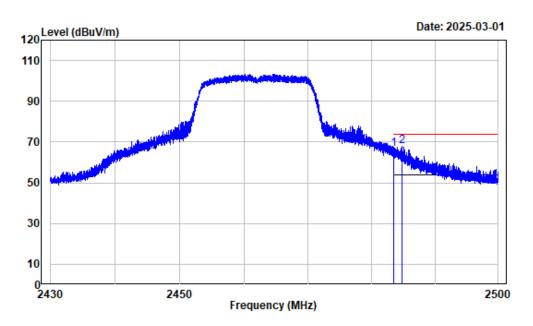
Condition : Vertical

Project No. : 2501P26598E-RF Tester : Zenos Qiao

Spectrum setting: Average reading:RBW:1MHz VBW:1kHz Detector:Peak

	Freq	Factor			Limit Line		Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	2389.985	-10.98	58.00	47.02	54.00	-6.98	Average
2	2390.000	-10.98	57.91	46.93	54.00	-7.07	Average

Right Band edge_Horizontal_Peak_802.11n-HT20_2462MHz

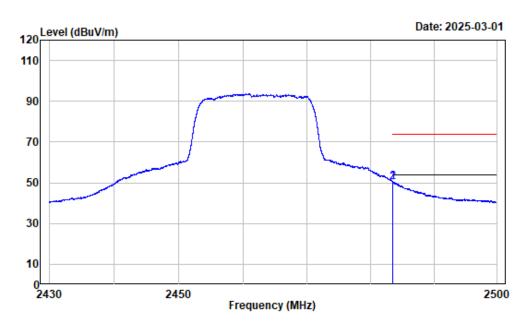


Condition : Horizontal
Project No. : 2501P26598E-RF
Tester : Zenos Qiao

Spectrum setting: Peak reading:RBW:1MHz VBW:3MHz Detector:Peak

	Freq	Factor			Limit Line		Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	2483.500	-10.97	77.62	66.65	74.00	-7.35	Peak
2	2484.738	-10.97	78.89	67.92	74.00	-6.08	Peak

Right Band edge_Horizontal_Average_802.11n-HT20_2462MHz

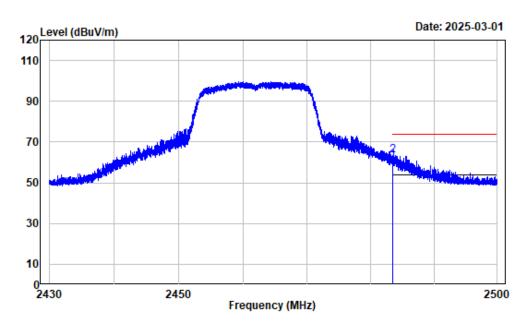


Condition : Horizontal
Project No. : 2501P26598E-RF
Tester : Zenos Qiao

Spectrum setting: Average reading:RBW:1MHz VBW:1kHz Detector:Peak

	Freq	Factor			Limit Line		Remark	
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB		_
1	2483.500	-10.97	61.23	50.26	54.00	-3.74	Average	
2	2483.524	-10.97	61.34	50.37	54.00	-3.63	Average	

Right Band edge_Vertical_Peak_802.11n-HT20_2462MHz



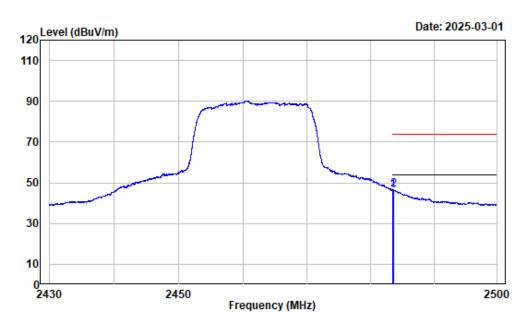
Condition : Vertical

Project No. : 2501P26598E-RF Tester : Zenos Qiao

Spectrum setting: Peak reading:RBW:1MHz VBW:3MHz Detector:Peak

	Freq	Factor			Limit Line		Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	2483.500	-10.97	71.85	60.88	74.00	-13.12	Peak
2	2483.522	-10.97	74.50	63.53	74.00	-10.47	Peak

Right Band edge_Vertical_Average_802.11n-HT20_2462MHz



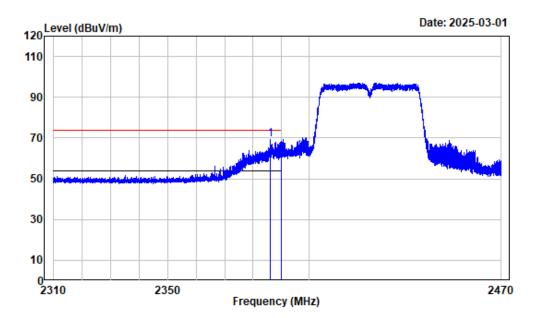
Condition : Vertical

Project No. : 2501P26598E-RF Tester : Zenos Qiao

Spectrum setting: Average reading:RBW:1MHz VBW:1kHz Detector:Peak

	Freq	Factor			Limit Line		Remark	
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB		-
1	2483.500	-10.97	57.33	46.36	54.00	-7.64	Average	
2	2483.635	-10.97	57.57	46.60	54.00	-7.40	Average	

Left Band edge_Horizontal_Peak_802.11n-HT40_2422MHz

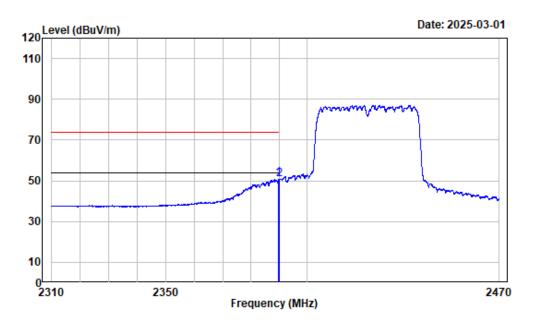


Condition : Horizontal
Project No. : 2501P26598E-RF
Tester : Zenos Qiao

Spectrum setting: Peak reading:RBW:1MHz VBW:3MHz Detector:Peak

	Freq	Factor			Limit Line		Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	2386.169	-10.97	80.33	69.36	74.00	-4.64	Peak
2	2390.000	-10.98	73.37	62.39	74.00	-11.61	Peak

Left Band edge_Horizontal_Average_802.11n-HT40_2422MHz

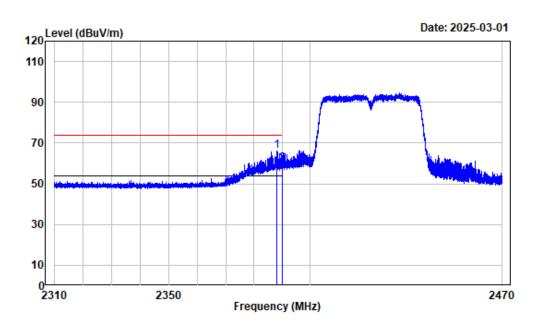


Condition : Horizontal
Project No. : 2501P26598E-RF
Tester : Zenos Qiao

Spectrum setting: Average reading:RBW:1MHz VBW:500Hz Detector:Peak

	Freq	Factor			Limit Line		Remark	
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB		_
1	2389.725	-10.98	61.93	50.95	54.00	-3.05	Average	
2	2390.000	-10.98	61.76	50.78	54.00	-3.22	Average	

Left Band edge_Vertical_Peak_802.11n-HT40_2422MHz



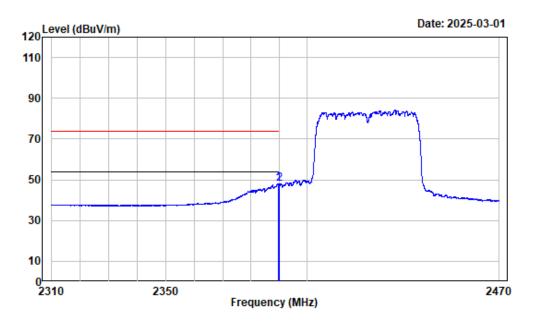
Condition : Vertical

Project No. : 2501P26598E-RF Tester : Zenos Qiao

Spectrum setting: Peak reading:RBW:1MHz VBW:3MHz Detector:Peak

	Freq	Factor			Limit Line		Remark	
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB		_
1	2388.290	-10.98	76.99	66.01	74.00	-7.99	Peak	
2	2390.000	-10.98	70.55	59.57	74.00	-14.43	Peak	

Left Band edge_Vertical_Average_802.11n-HT40_2422MHz



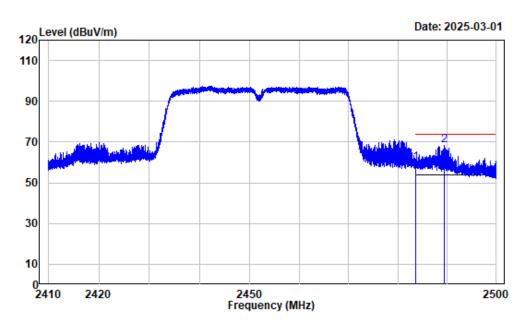
Condition : Vertical

Project No. : 2501P26598E-RF Tester : Zenos Qiao

Spectrum setting: Average reading:RBW:1MHz VBW:500Hz Detector:Peak

	Freq	Factor			Limit Line		Remark	
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB		
1	2389.690	-10.98	58.97	47.99	54.00	-6.01	Average	
2	2390.000	-10.98	58.78	47.80	54.00	-6.20	Average	

Right Band edge_Horizontal_Peak_802.11n-HT40_2452MHz

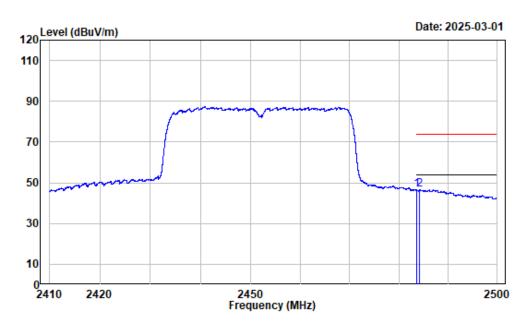


Condition : Horizontal
Project No. : 2501P26598E-RF
Tester : Zenos Qiao

Spectrum setting: Peak reading:RBW:1MHz VBW:3MHz Detector:Peak

	Freq	Factor			Limit Line		Remark	
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB		_
1	2483.500	-10.97	70.65	59.68	74.00	-14.32	Peak	
2	2489.412	-10.98	79.51	68.53	74.00	-5.47	Peak	

Right Band edge_Horizontal_Average_802.11n-HT40_2452MHz

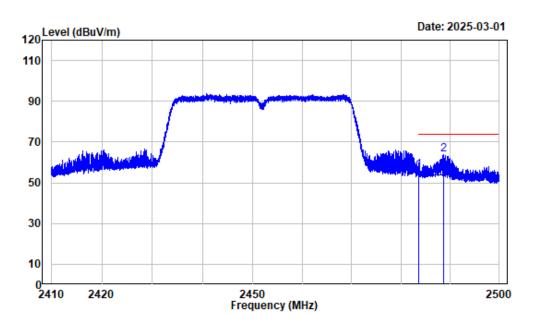


Condition : Horizontal
Project No. : 2501P26598E-RF
Tester : Zenos Qiao

Spectrum setting: Average reading:RBW:1MHz VBW:500Hz Detector:Peak

	Freq	Factor			Limit Line		Remark	
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB		_
1	2483.500	-10.97	57.45	46.48	54.00	-7.52	Average	
2	2484.226	-10.97	57.49	46.52	54.00	-7.48	Average	

Right Band edge_Vertical_Peak_802.11n-HT40_2452MHz



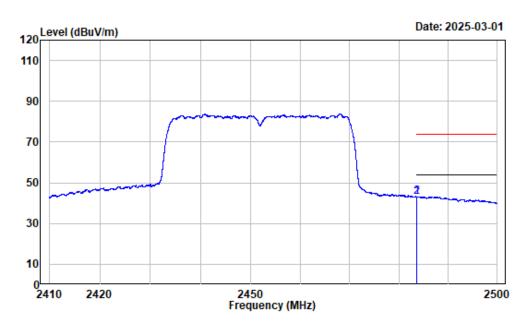
Condition : Vertical

Project No. : 2501P26598E-RF Tester : Zenos Qiao

Spectrum setting: Peak reading:RBW:1MHz VBW:3MHz Detector:Peak

	Freq	Factor			Limit Line		Remark	
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB		
1	2483.500	-10.97	67.20	56.23	74.00	-17.77	Peak	
2	2488.636	-10.98	74.94	63.96	74.00	-10.04	Peak	

Right Band edge_Vertical_Average_802.11n-HT40_2452MHz



Condition : Vertical

Project No. : 2501P26598E-RF Tester : Zenos Qiao

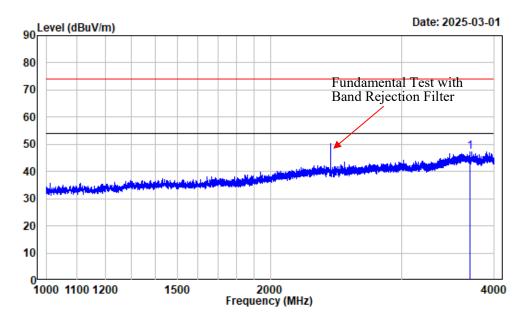
Spectrum setting: Average reading:RBW:1MHz VBW:500Hz Detector:Peak

	Freq	Factor			Limit Line		Remark	
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB		-
1	2483.500	-10.97	54.05	43.08	54.00	-10.92	Average	
2	2483.562	-10.97	54.19	43.22	54.00	-10.78	Average	

1-18GHz (Listed with the worst harmonic margin test plot)

1-4GHz Horizontal 802.11b

Report No.: 2501P26598E-RF-00A



Condition : Horizontal
Project No. : 2501P26598E-RF
Tester : Zenos Qiao

Spectrum setting: Peak reading:RBW:1MHz VBW:3MHz Detector:Peak

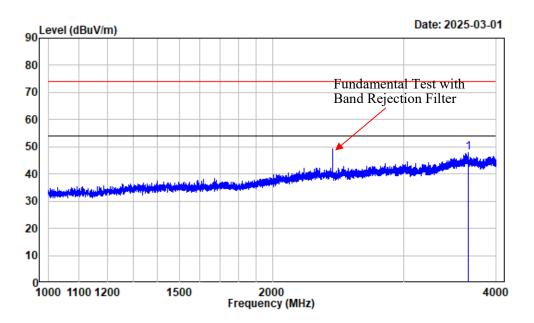
Note : 2.4GWiFi-b-2412

Read Limit Over
Freq Factor Level Level Line Limit Remark

MHz dB/m dBuV/dBuV/m dBuV/m dB

1 3711.214 -9.51 56.79 47.28 74.00 -26.72 Peak

1-4GHz_Vertical_802.11b



Condition : Vertical

Project No. : 2501P26598E-RF Tester : Zenos Qiao

Spectrum setting: Peak reading:RBW:1MHz VBW:3MHz Detector:Peak

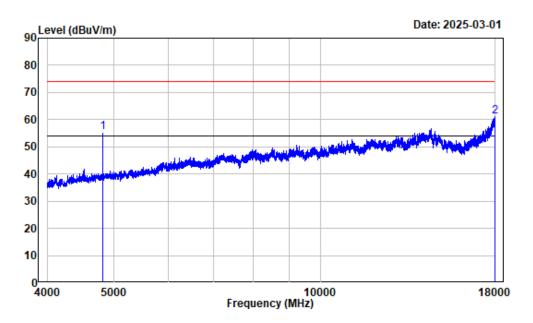
Note : 2.4GWiFi-b-2412

Read Limit Over
Level Level Line Limit Remark

MHz dB/m dBuV dBuV/m dBuV/m dB

1 3666.208 -9.69 57.53 47.84 74.00 -26.16 Peak

4-18GHz_Horizontal_Peak_802.11b

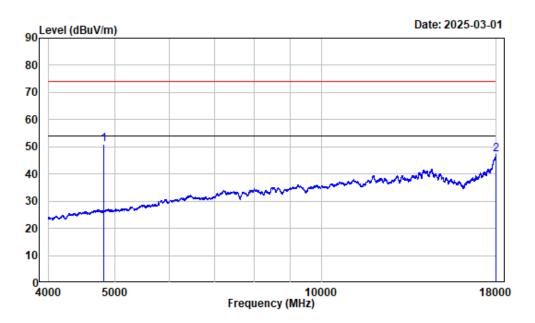


Condition : Horizontal
Project No. : 2501P26598E-RF
Tester : Zenos Qiao

Spectrum setting: Peak reading:RBW:1MHz VBW:3MHz Detector:Peak

	Freq	Factor			Limit Line		Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	4824.000	-7.75	63.25	55.50	74.00	-18.50	Peak
2	17970.250	13.05	47.99	61.04	74.00	-12.96	Peak

4-18GHz_Horizontal_Average_802.11b



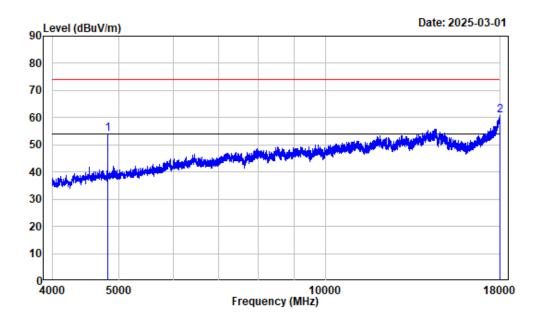
Condition : Horizontal
Project No. : 2501P26598E-RF
Tester : Zenos Qiao

Spectrum setting: Average reading:RBW:1MHz VBW:1kHz Detector:Peak

	Freq	Factor			Limit Line		Remark	
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB		_
1	4824.000	-7.75	58.71	50.96	54.00	-3.04	Average	
2	17994.750	13.17	34.09	47.26	54.00	-6.74	Average	

4-18GHz_Vertical_Peak_802.11b

Report No.: 2501P26598E-RF-00A



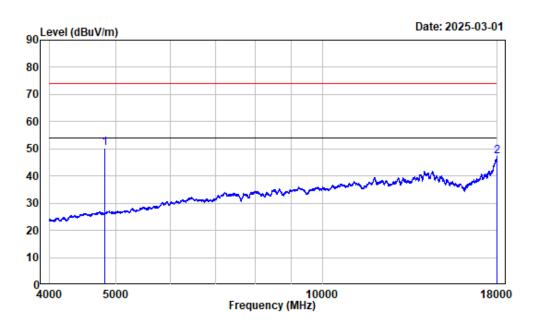
Condition : Vertical Project No. : 2501P26598E-RF

Tester : Zenos Qiao

Spectrum setting: Peak reading:RBW:1MHz VBW:3MHz Detector:Peak

	Freq	Factor			Limit Line		Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	4824.000	-7.75	61.68	53.93	74.00	-20.07	Peak
2	17989.500	13.16	47.58	60.74	74.00	-13.26	Peak

4-18GHz_Vertical_Average_802.11b



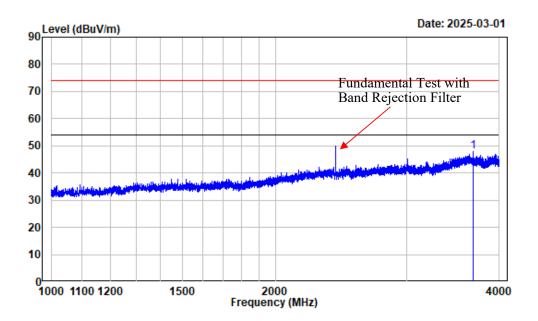
Condition : Vertical

Project No. : 2501P26598E-RF Tester : Zenos Qiao

Spectrum setting: Average reading:RBW:1MHz VBW:1kHz Detector:Peak

	Freq	Factor			Limit Line		Remark	
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB		_
1	4824.000	-7.75	57.87	50.12	54.00	-3.88	Average	
2	17994.750	13.17	33.92	47.09	54.00	-6.91	Average	

1-4GHz_Horizontal_802.11g



Condition : Horizontal
Project No. : 2501P26598E-RF
Tester : Zenos Qiao

Spectrum setting: Peak reading:RBW:1MHz VBW:3MHz Detector:Peak

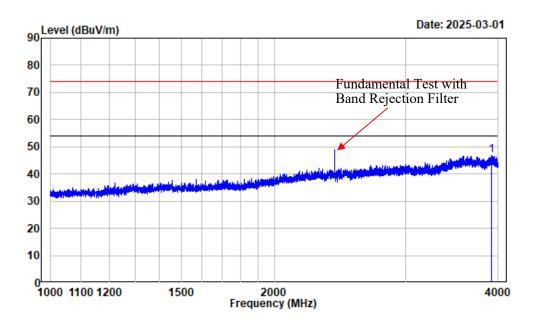
Note : 2.4GWiFi-g-2412

Read Limit Over
Level Level Line Limit Remark

MHz dB/m dBuV dBuV/m dBuV/m dB

1 3693.962 -9.52 57.45 47.93 74.00 -26.07 Peak

1-4GHz_Vertical_802.11g



Condition : Vertical

Project No. : 2501P26598E-RF Tester : Zenos Qiao

Spectrum setting: Peak reading:RBW:1MHz VBW:3MHz Detector:Peak

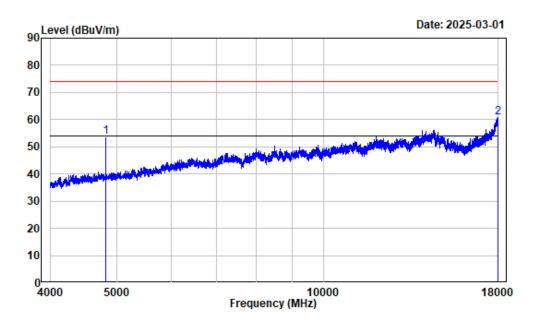
Note : 2.4GWiFi-g-2412

Read Limit Over
Freq Factor Level Level Line Limit Remark

MHz dB/m dBuV dBuV/m dBuV/m dB

1 3914.864 -9.68 56.57 46.89 74.00 -27.11 Peak

4-18GHz_Horizontal_Peak_802.11g

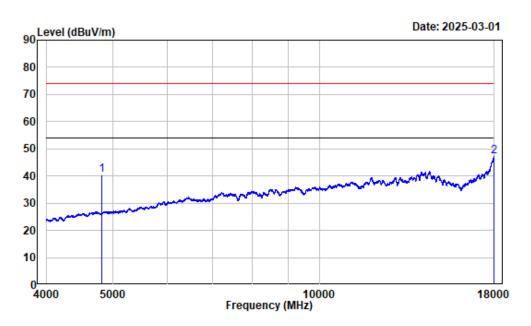


Condition : Horizontal
Project No. : 2501P26598E-RF
Tester : Zenos Qiao

Spectrum setting: Peak reading:RBW:1MHz VBW:3MHz Detector:Peak

	Freq	Factor			Limit Line		Remark	
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB		
1	4824.000	-7.75	61.38	53.63	74.00	-20.37	Peak	
2	17973.750	13.08	47.83	60.91	74.00	-13.09	Peak	

4-18GHz_Horizontal_Average_802.11g



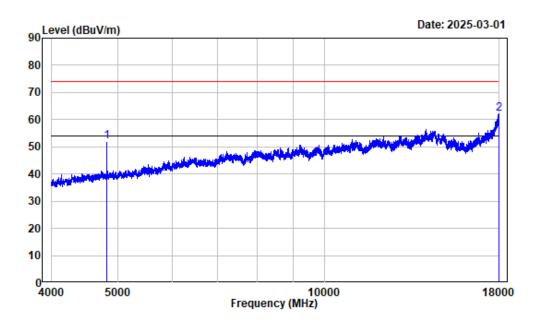
Condition : Horizontal
Project No. : 2501P26598E-RF
Tester : Zenos Qiao

Spectrum setting: Average reading:RBW:1MHz VBW:1kHz Detector:Peak

	Freq	Factor			Limit Line		Remark	
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB		_
1	4824.000	-7.75	48.27	40.52	54.00	-13.48	Average	
2	17987.750	13.13	34.07	47.20	54.00	-6.80	Average	

4-18GHz_Vertical_Peak_802.11g

Report No.: 2501P26598E-RF-00A



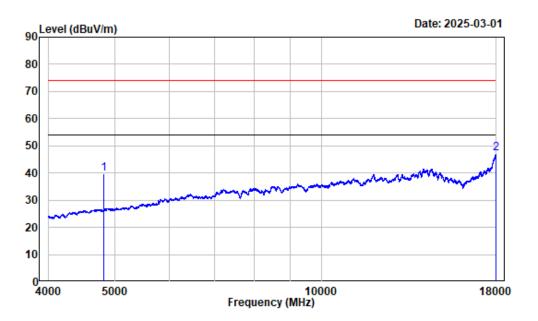
Condition : Vertical Project No. : 2501P26598E-RF

Tester : Zenos Qiao

Spectrum setting: Peak reading:RBW:1MHz VBW:3MHz Detector:Peak

	Freq	Factor			Limit Line		Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	4824.000	-7.75	59.86	52.11	74.00	-21.89	Peak
2	17989.500	13.16	48.85	62.01	74.00	-11.99	Peak

4-18GHz_Vertical_Average_802.11g



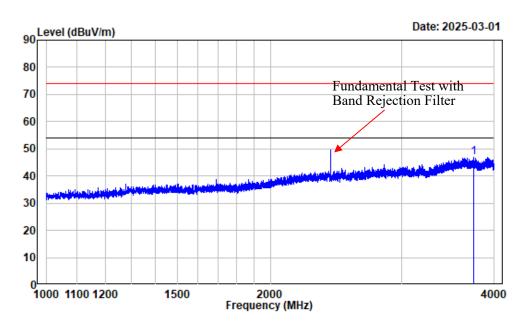
Condition : Vertical

Project No. : 2501P26598E-RF Tester : Zenos Qiao

Spectrum setting: Average reading:RBW:1MHz VBW:1kHz Detector:Peak

	Freq	Factor			Limit Line		Remark	
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB		_
1	4824.000	-7.75	47.44	39.69	54.00	-14.31	Average	
2	17994.750	13.17	33.94	47.11	54.00	-6.89	Average	

1-4GHz Horizontal 802.11n-HT20



Condition : Horizontal
Project No. : 2501P26598E-RF
Tester : Zenos Qiao

Spectrum setting: Peak reading:RBW:1MHz VBW:3MHz Detector:Peak

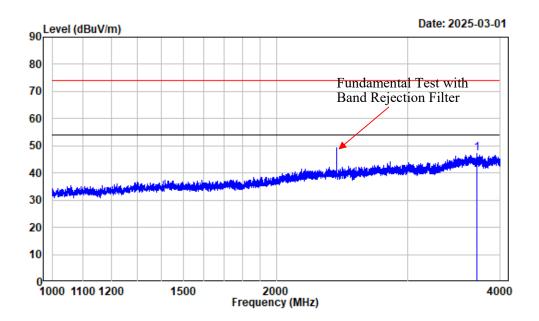
Note : 2.4GWiFi-n20-2412

Read Limit Over
Freq Factor Level Level Line Limit Remark

MHz dB/m dBuV dBuV/m dBuV/m dB

1 3753.969 -9.62 56.45 46.83 74.00 -27.17 Peak

1-4GHz_Vertical_802.11n-HT20



Condition : Vertical
Project No. : 2501P26598E-RF

Tester : Zenos Qiao

Spectrum setting: Peak reading:RBW:1MHz VBW:3MHz Detector:Peak

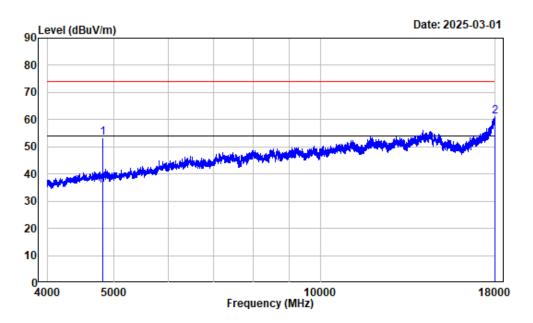
Note : 2.4GWiFi-n20-2412

Read Limit Over
Level Level Line Limit Remark

MHz dB/m dBuV dBuV/m dBuV/m dB

1 3722.840 -9.53 56.65 47.12 74.00 -26.88 Peak

4-18GHz_Horizontal_Peak_802.11n-HT20



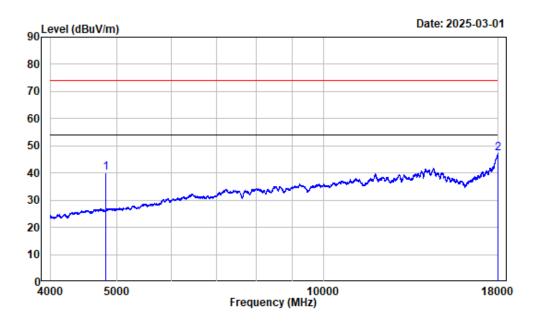
Condition : Horizontal
Project No. : 2501P26598E-RF
Tester : Zenos Qiao

Spectrum setting: Peak reading:RBW:1MHz VBW:3MHz Detector:Peak

	Freq	Factor			Limit Line		Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	4824.000	-7.75	61.07	53.32	74.00	-20.68	Peak
2	17968.500	13.05	47.95	61.00	74.00	-13.00	Peak

4-18GHz_Horizontal_Average_802.11n-HT20

Report No.: 2501P26598E-RF-00A

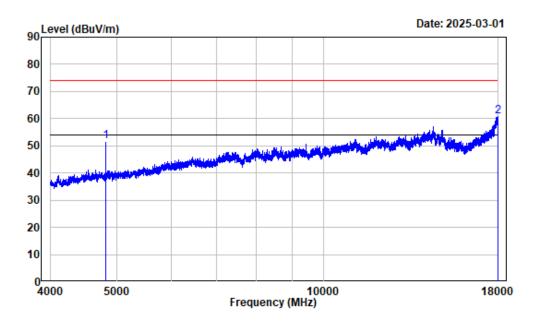


Condition : Horizontal
Project No. : 2501P26598E-RF
Tester : Zenos Qiao

Spectrum setting: Average reading:RBW:1MHz VBW:1kHz Detector:Peak

	Freq	Factor			Limit Line		Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	4824.000	-7.75	47.96	40.21	54.00	-13.79	Average
2	17994.750	13.17	34.15	47.32	54.00	-6.68	Average

4-18GHz_Vertical_Peak_802.11n-HT20



Condition : Vertical Project No. : 2501P26598E-RF

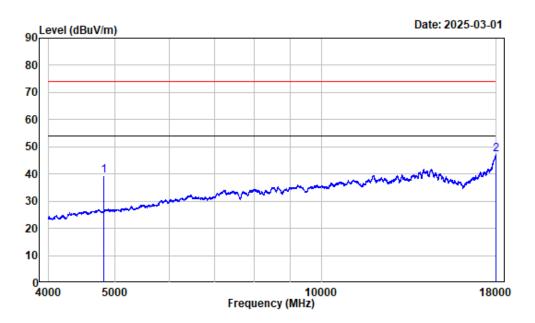
Tester : Zenos Qiao

Spectrum setting: Peak reading:RBW:1MHz VBW:3MHz Detector:Peak

	Freq	Factor			Limit Line		Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	4824.000	-7.75	59.53	51.78	74.00	-22.22	Peak
2	17989.500	13.16	47.75	60.91	74.00	-13.09	Peak

4-18GHz_Vertical_Average_802.11n-HT20

Report No.: 2501P26598E-RF-00A



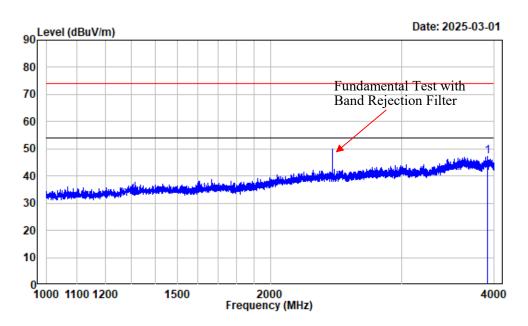
Condition : Vertical

Project No. : 2501P26598E-RF Tester : Zenos Qiao

Spectrum setting: Average reading:RBW:1MHz VBW:1kHz Detector:Peak

	Freq	Factor			Limit Line		Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	4824.000	-7.75	47.15	39.40	54.00	-14.60	Average
2	17993.000	13.17	34.06	47.23	54.00	-6.77	Average

1-4GHz Horizontal 802.11n-HT40



Condition : Horizontal
Project No. : 2501P26598E-RF
Tester : Zenos Qiao

Spectrum setting: Peak reading:RBW:1MHz VBW:3MHz Detector:Peak

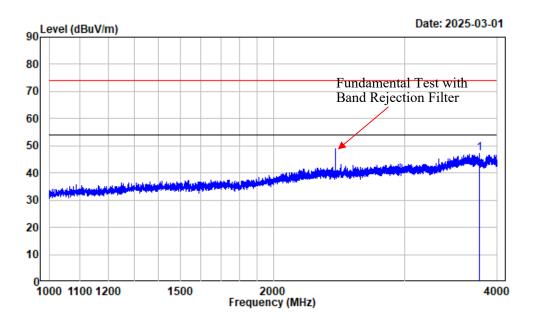
Note : 2.4GWiFi-n40-2422

Read Limit Over
Freq Factor Level Level Line Limit Remark

MHz dB/m dBuV dBuV/m dBuV/m dB

1 3917.865 -9.65 56.73 47.08 74.00 -26.92 Peak

1-4GHz_Vertical_802.11n-HT40



Condition : Vertical
Project No. : 2501P26598E-RF
Tester : Zenos Qiao

Spectrum setting: Peak reading:RBW:1MHz VBW:3MHz Detector:Peak

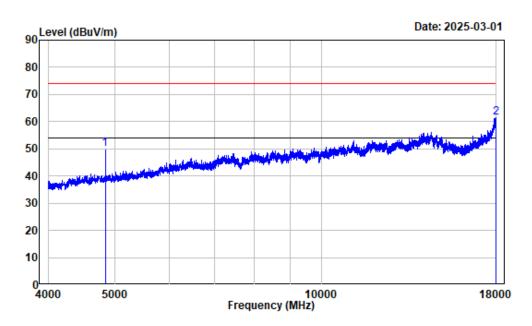
Note : 2.4GWiFi-n40-2422

Read Limit Over
Freq Factor Level Level Line Limit Remark

MHz dB/m dBuV dBuV/m dBuV/m dB

1 3781.723 -9.74 56.83 47.09 74.00 -26.91 Peak

4-18GHz_Horizontal_Peak_802.11n-HT40

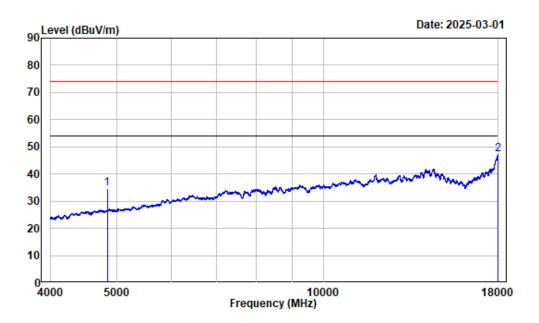


Condition : Horizontal
Project No. : 2501P26598E-RF
Tester : Zenos Qiao

Spectrum setting: Peak reading:RBW:1MHz VBW:3MHz Detector:Peak

	Freq	Factor			Limit Line		Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	4844.000	-7.72	57.64	49.92	74.00	-24.08	Peak
2	17982.500	13.11	48.20	61.31	74.00	-12.69	Peak

4-18GHz_Horizontal_Average_802.11n-HT40

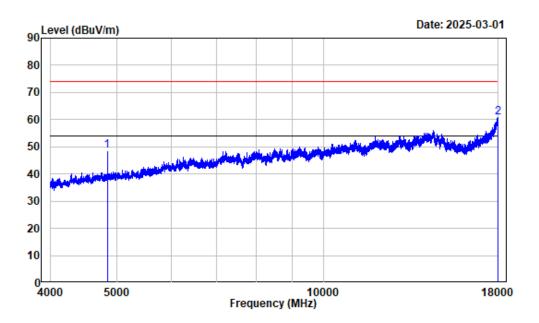


Condition : Horizontal
Project No. : 2501P26598E-RF
Tester : Zenos Qiao

Spectrum setting: Average reading:RBW:1MHz VBW:1kHz Detector:Peak

	Freq	Factor			Limit Line		Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	4844.000	-7.72	42.30	34.58	54.00	-19.42	Average
2	17994.750	13.17	34.02	47.19	54.00	-6.81	Average

4-18GHz_Vertical_Peak_802.11n-HT40



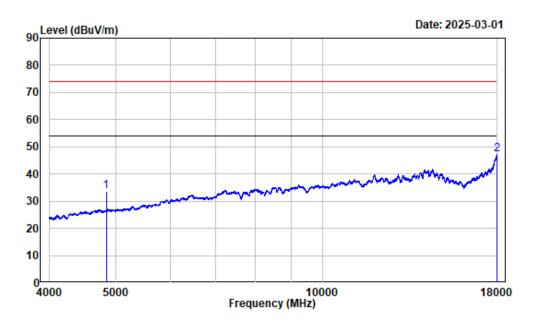
Condition : Vertical
Project No. : 2501P26598E-RF
Tester : Zenos Qiao

Spectrum setting: Peak reading: RBW: 1MHz VBW: 3MHz Detector: Peak

	Freq	Factor			Limit Line		Remark	
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB		
1	4844.000	-7.72	56.12	48.40	74.00	-25.60	Peak	
2	17987.750	13.13	47.50	60.63	74.00	-13.37	Peak	

4-18GHz_Vertical_Average_802.11n-HT40

Report No.: 2501P26598E-RF-00A



Condition : Vertical

Project No. : 2501P26598E-RF Tester : Zenos Qiao

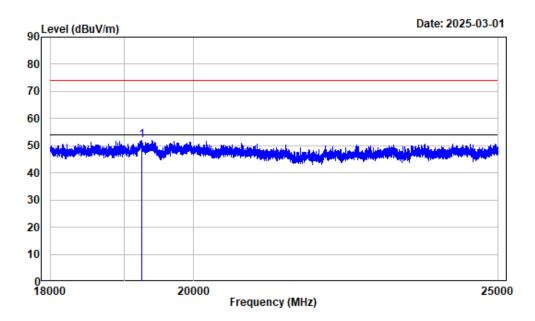
Spectrum setting: Average reading:RBW:1MHz VBW:1kHz Detector:Peak

	Freq	Factor			Limit Line		Remark	
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB		_
1	4844.000	-7.72	41.49	33.77	54.00	-20.23	Average	
2	17998.250	13.19	33.87	47.06	54.00	-6.94	Average	

18-25GHz (Only with worst case margin mode plot)

18-25GHz_Horizontal

Report No.: 2501P26598E-RF-00A



Condition : Horizontal
Project No. : 2501P26598E-RF
Tester : Zenos Qiao

Spectrum setting: Peak reading: RBW: 1MHz VBW: 3MHz Detector: Peak

Note : 2.4GWiFi-b-2412

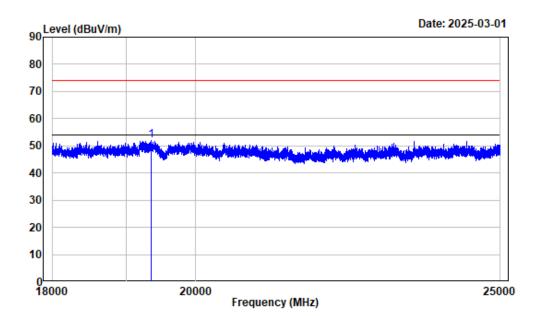
Read Limit Over
Freq Factor Level Level Line Limit Remark

MHz dB/m dBuV/m dBuV/m dBuV/m dB

1 19250.530 15.26 36.75 52.01 74.00 -21.99 Peak

18-25GHz_Vertical

Report No.: 2501P26598E-RF-00A



Condition : Vertical

Project No. : 2501P26598E-RF Tester : Zenos Qiao

Spectrum setting: Peak reading:RBW:1MHz VBW:3MHz Detector:Peak

Note : 2.4GWiFi-b-2412

Read Limit Over
Freq Factor Level Level Line Limit Remark

MHz dB/m dBuV dBuV/m dBuV/m dB

1 19355.540 15.14 36.68 51.82 74.00 -22.18 Peak

6dB Emission Bandwidth

Test Information:

Sample No.:	2XKL-1	Test Date:	2025/02/19
Test Site:	RF	Test Mode:	Transmitting
Tester:	Cheeb Huang	Test Result:	Pass

Report No.: 2501P26598E-RF-00A

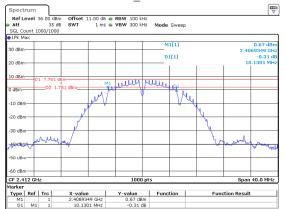
Environmental Conditions:

Temperature: (°C)	24.5	Relative Humidity: (%)	39	ATM Pressure: (kPa)	101
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Test Data:

Mode	Test Frequency (MHz)	Result (MHz)	Limit (MHz)	Verdict
	2412	10.130	≥0.5	Pass
802.11b	2437	10.130	≥0.5	Pass
	2462	10.090	≥0.5	Pass
	2412	15.175	≥0.5	Pass
802.11g	2437	16.136	≥0.5	Pass
	2462	15.536	≥0.5	Pass
	2412	15.736	≥0.5	Pass
802.11n20	2437	15.936	≥0.5	Pass
	2462	15.776	≥0.5	Pass
	2422	35.235	≥0.5	Pass
802.11n40	2437	34.675	≥0.5	Pass
	2452	35.235	≥0.5	Pass

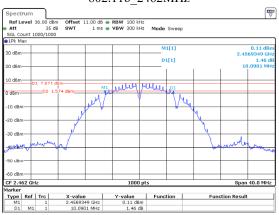
802.11b_2412MHz



ProjectNo.:2501P26598E-RF Tester:Cheeb Huang

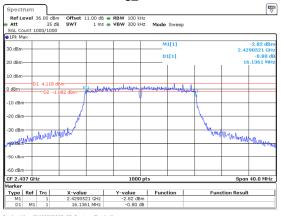
Date: 19.FEB.2025 16:07:34

802.11b 2462MHz



ProjectNo.:2501P26598E-RF Tester:Cheeb Huang Date: 19.FEB.2025 16:12:59

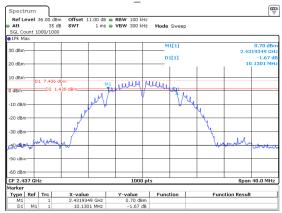
802.11g_2437MHz



ProjectNo.:2501P26598E-RF Tester:Cheeb Huang
Date: 19.FEB.2025 16:29:22

802.11b_2437MHz

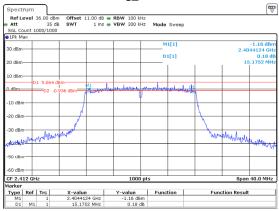
Report No.: 2501P26598E-RF-00A



ProjectNo.:2501P26598E-RF Tester:Cheeb Huang

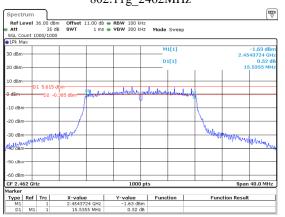
20120100

802.11g_2412MHz



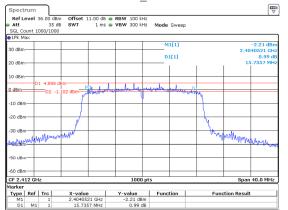
ProjectNo.:2501P26598E-RF Tester:Cheeb Huang Date: 19.FEB.2025 16:24:29

802.11g_2462MHz



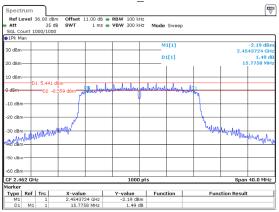
ProjectNo.:2501P26598E-RF Tester:Cheeb Huang

802.11n20_2412MHz



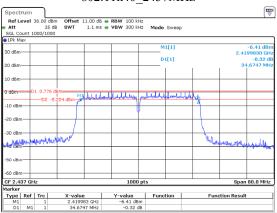
ProjectNo.:2501P26598E-RF Tester:Cheeb Huang

802.11n20 2462MHz



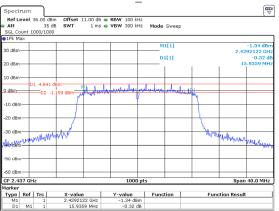
Date: 19.FEB.2025 16:44:05

802.11n40_2437MHz



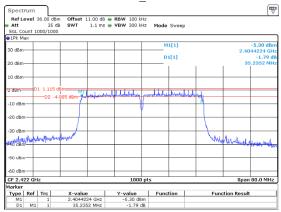
802.11n20_2437MHz

Report No.: 2501P26598E-RF-00A



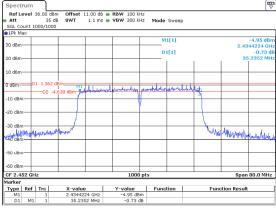
ProjectNo.:2501P26598E-RF Tester:Cheeb Huang

802.11n40 2422MHz



ProjectNo.:2501P26598E-RF Tester:Cheeb Huang Date: 19.FEB.2025 16:49:02

802.11n40_2452MHz



99% Occupied Bandwidth

Test Information:

Sample No.:	2XKL-1	Test Date:	2025/02/19
Test Site:	RF	Test Mode:	Transmitting
Tester:	Cheeb Huang	Test Result:	N/A

Report No.: 2501P26598E-RF-00A

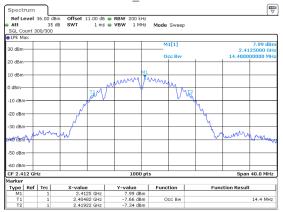
Environmental Conditions:

Temperature: (°C) 24.5	Relative Humidity: (%)	39 ATM Pressure: (kPa)	101
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Test Data:

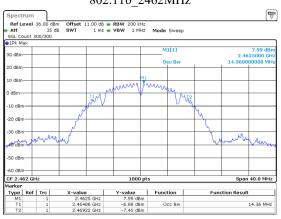
Mode	Test Frequency (MHz)	99% OBW (MHz)
	2412	14.400
802.11b	2437	14.360
	2462	14.360
	2412	16.400
802.11g	2437	16.360
	2462	16.360
	2412	17.360
802.11n20	2437	17.400
	2462	17.400
	2422	35.920
802.11n40	2437	35.920
	2452	35.920

802.11b_2412MHz



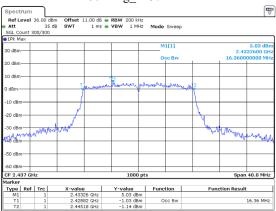
ProjectNo.:2501P26598E-RF Tester:Cheeb Huang

802.11b 2462MHz



ProjectNo.:2501P26598E-RF Tester:Cheeb Huang Date: 19.FEB.2025 16:13:21

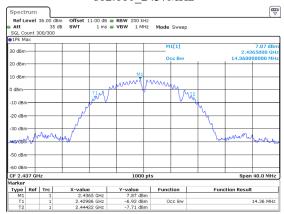
802.11g_2437MHz



ProjectNo.:2501P26598E-RF Tester:Cheeb Huang
Date: 19.FEB.2025 16:29:44

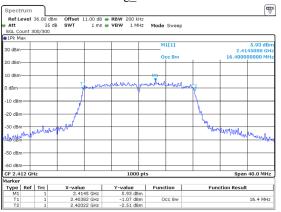
802.11b_2437MHz

Report No.: 2501P26598E-RF-00A



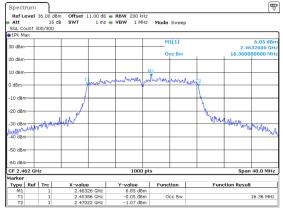
ProjectNo.:2501P26598E=RF Tester:Cheeb Huang

802.11g 2412MHz



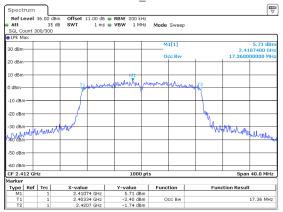
ProjectNo.:2501P26598E-RF Tester:Cheeb Huang Date: 19.FEB.2025 16:24:52

802.11g_2462MHz



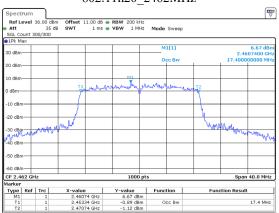
ProjectNo.:2501P26598E-RF Tester:Cheeb Huang

802.11n20_2412MHz



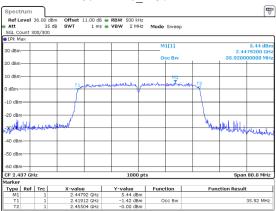
ProjectNo.:2501P26598E-RF Tester:Cheeb Huang

802.11n20 2462MHz



ProjectNo.:2501P26598E-RF Tester:Cheeb Huang Date: 19.FEB.2025 16:44:28

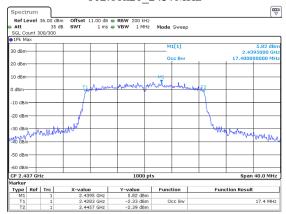
802.11n40_2437MHz



ProjectNo.:2501P26598E-RF Tester:Cheeb Huang
Date: 19.FEB.2025 16:52:44

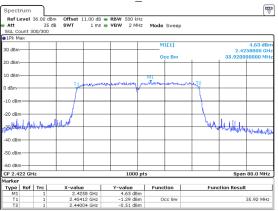
802.11n20_2437MHz

Report No.: 2501P26598E-RF-00A



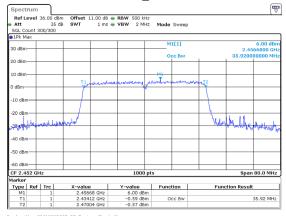
ProjectNo.:2501P26598E=RF Tester:Cheeb Huang

802.11n40 2422MHz



ProjectNo.:2501P26598E-RF Tester:Cheeb Huang Date: 19.FEB.2025 16:49:13

802.11n40_2452MHz



ProjectNo.:2501P26598E-RF Tester:Cheeb Huang Date: 19.FBB.2025 16:56:37

Maximum Conducted Output Power

Test Information:

Sample No.:	2XKL-1	Test Date:	2025/02/19
Test Site:	RF	Test Mode:	Transmitting
Tester:	Cheeb Huang	Test Result:	Pass

Report No.: 2501P26598E-RF-00A

Environmental Conditions:

Temperature: (°C)	24.5	Relative Humidity: (%)	39	ATM Pressure: (kPa)	101
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Test Data:

Mode	Test Frequency (MHz)	Peak Output Power(dBm)	Limit (dBm)	Verdict
	2412	19.66	30	Pass
802.11b	2437	19.38	30	Pass
	2462	19.50	30	Pass
	2412	22.11	30	Pass
802.11g	2437	22.13	30	Pass
	2462	22.57	30	Pass
	2412	21.96	30	Pass
802.11n20	2437	22.28	30	Pass
	2462	22.87	30	Pass
	2422	21.90	30	Pass
802.11n40	2437	21.57	30	Pass
	2452	22.01	30	Pass

Power Spectral Density

Test Information:

Sample No.:	2XKL-1	Test Date:	2025/02/19
Test Site:	RF	Test Mode:	Transmitting
Tester:	Cheeb Huang	Test Result:	Pass

Report No.: 2501P26598E-RF-00A

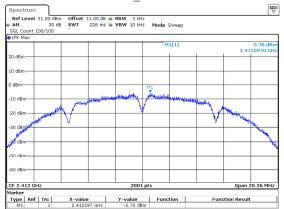
Environmental Conditions:

Temperature: (°C)	24.5	Relative Humidity: (%)	39	ATM Pressure: (kPa)	101
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Test Data:

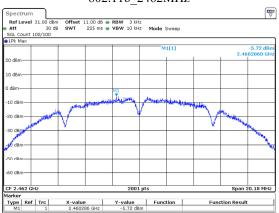
Mode	Test Frequency (MHz)	Result (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
	2412	-5.76	8	Pass
802.11b	2437	-4.04	8	Pass
	2462	-5.72	8	Pass
	2412	-8.83	8	Pass
802.11g	2437	-7.92	8	Pass
	2462	-8.00	8	Pass
	2412	-10.14	8	Pass
802.11n20	2437	-7.18	8	Pass
	2462	-8.97	8	Pass
	2422	-13.35	8	Pass
802.11n40	2437	-12.97	8	Pass
	2452	-12.72	8	Pass

802.11b_2412MHz



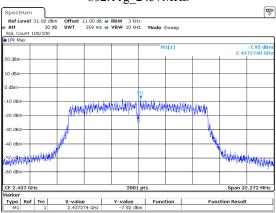
ProjectNo.:2501P26598E-RF Tester:Cheeb Huang

802.11b 2462MHz



ProjectNo.:2501P26598E-RF Tester:Cheeb Huang Date: 19.FEB.2025 16:14:48

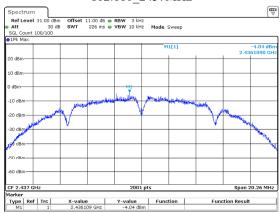
802.11g_2437MHz



ProjectNo.:2501P26598E-RF Tester:Cheeb Huang Date: 19.FEB.2025 16:30:59

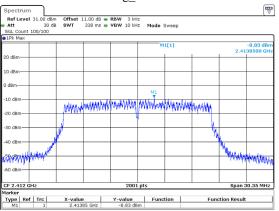
802.11b_2437MHz

Report No.: 2501P26598E-RF-00A



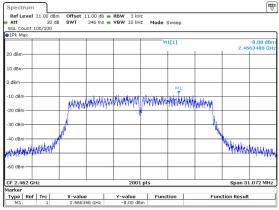
ProjectNo.:2501P26598E-RF Tester:Cheeb Huang

802.11g 2412MHz



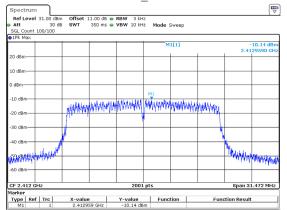
ProjectNo.:2501P26598E-RF Tester:Cheeb Huang Date: 19.FEB.2025 16:28:13

802.11g_2462MHz



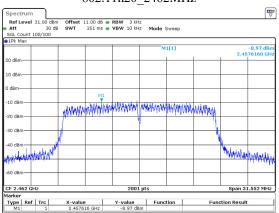
ProjectNo.:2501P26598E-RF Tester:Cheeb Huang

802.11n20_2412MHz



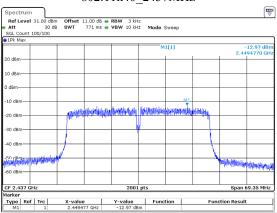
ProjectNo.:2501P26598E-RF Tester:Cheeb Huang

802.11n20 2462MHz



ProjectNo.:2501P26598E-RF Tester:Cheeb Huang Date: 19.FEB.2025 16:46:37

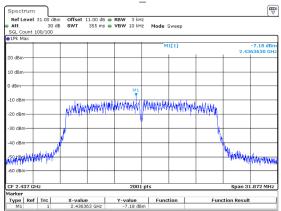
802.11n40_2437MHz



ProjectNo.:2501P26598E-RF Tester:Cheeb Huang Date: 19.FEB.2025 16:54:59

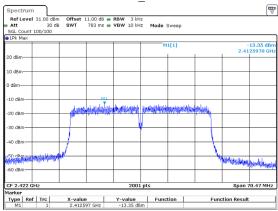
802.11n20_2437MHz

Report No.: 2501P26598E-RF-00A



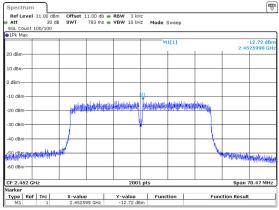
ProjectNo.:2501P26598E-RF Tester:Cheeb Huang

802.11n40 2422MHz



ProjectNo.:2501P26598E-RF Tester:Cheeb Huang Date: 19.FEB.2025 16:51:50

$802.11n40_2452MHz$



ProjectNo.:2501P26598E-RF Tester:Cheeb Huang

100 kHz Bandwidth of Frequency Band Edge

Test Information:

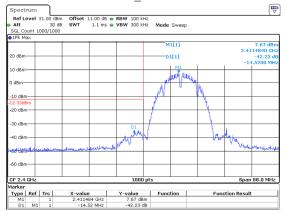
Sample No.:	2XKL-1	Test Date:	2025/02/19
Test Site:	RF	Test Mode:	Transmitting
Tester:	Cheeb Huang	Test Result:	Pass

Report No.: 2501P26598E-RF-00A

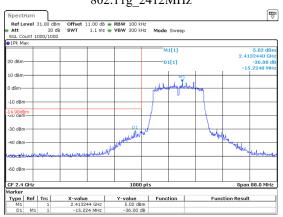
Environmental Conditions:

Temperature: (°C) 24.5	Relative Humidity: (%)	39	ATM Pressure: (kPa)	101
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802.11b_2412MHz

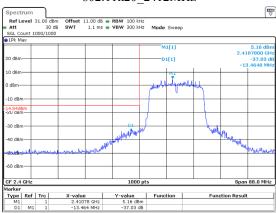


802.11g 2412MHz



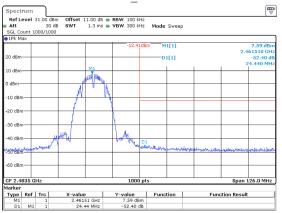
Date: 19.FEB.2025 16:27:17

802.11n20_2412MHz



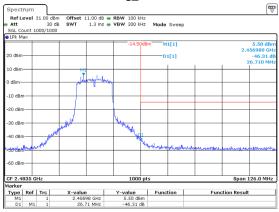
802.11b_2462MHz

Report No.: 2501P26598E-RF-00A



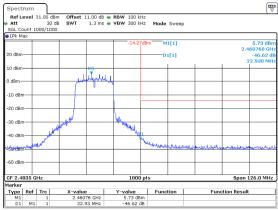
ProjectNo.:2501P26598E-RF Tester:Cheeb Huang

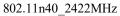
802.11g 2462MHz

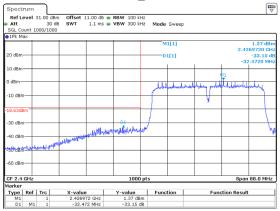


ProjectNo.:2501P26598E-RF Tester:Cheeb Huang Date: 19.FEB.2025 16:33:22

802.11n20_2462MHz



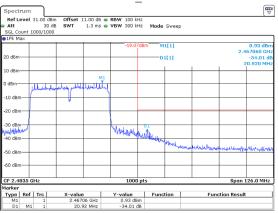




ProjectNo.:2501P26598E=RF Tester:Cheeb Huang

802.11n40_2452MHz

Report No.: 2501P26598E-RF-00A



ProjectNo.:2501P26598E-RF Tester:Cheeb Huang Date: 19.FEB.2025 16:58:13

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Duty Cycle

Test Information:

Sample No.:	2XKL-1	Test Date:	2025/02/19
Test Site:	RF	Test Mode:	Transmitting
Tester:	Cheeb Huang	Test Result:	N/A

Report No.: 2501P26598E-RF-00A

Environmental Conditions:

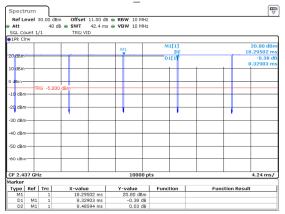
Temperature: (°C) 24.5	Relative Humidity: (%)	39	ATM Pressure: (kPa)	101
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Test Data:

Mode	Test Frequency (MHz)	Ton (ms)	Ton+Toff (ms)	Duty Cycle (%)	Duty Cycle Factor(dB)	1/Ton (Hz)	VBW Setting (kHz)
802.11b	2437	8.329	8.486	98.15	/	/	0.010
802.11g	2437	1.375	6.878	19.99	6.99	727	1
802.11n20	2437	1.286	6.432	19.99	6.99	778	1
802.11n40	2437	2.458	5.131	47.90	3.20	407	0.5

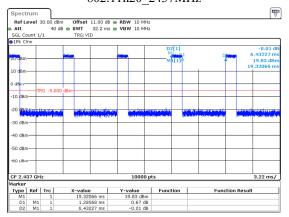
Duty Cycle = Ton/(Ton+Toff)*100%

802.11b_2437MHz



ProjectNo.:2501P26598E-RF Tester:Cheeb Huang

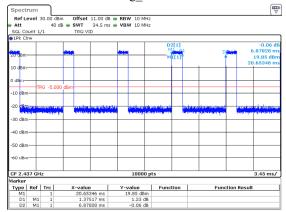
802.11n20_2437MHz



ProjectNo.:2501P26598E-RF Tester:Cheeb Huang Date: 19.FEB.2025 15:49:15

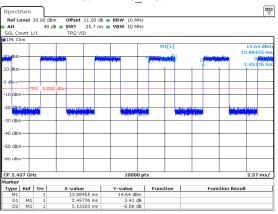
802.11g_2437MHz

Report No.: 2501P26598E-RF-00A



ProjectNo.:2501P26598E-RF Tester:Cheeb Huang

802.11n40_2437MHz



ProjectNo.:2501P26598E-RF Tester:Cheeb Huang Date: 19.FEB.2025 15:50:13

RF EXPOSURE EVALUATION

MPE-Based Exemption

Applicable Standard

According to subpart 15.247 (i) and subpart 2.1091 systems operating under the provisions of this section shall be operated in a manner that ensures the public is not exposed to RF energy level in excess of the communication guidelines.

Report No.: 2501P26598E-RF-00A

According to KDB 447498 D04 v01 Interim General RF Exposure Guidance

MPE-Based Exemption:

General frequency and separation-distance dependent MPE-based effective radiated power(ERP) thresholds are in Table B.1 [Table 1 of § 1.1307(b)(3)(i)(C)] to support an exemption from further evaluation from 300 kHz through 100 GHz.

Table 1 to § $1.1307(b)(3)(i)(C)$ - Single RF Sources Subject to Routine Environmental Evaluation					
RF Source frequency (MHz)	Threshold ERP (watts)				
0.3-1.34	1,920 R ² .				
1.34-30	3,450 R ² /f ² .				
30-300	3.83 R ² .				
300-1,500	0.0128 R ² f.				
1,500-100,000	19.2R ² .				

R is the minimum separation distance in meters

f = frequency in MHz

Result

Mode	Frequency (MHz)	Tune up conducted	Antenn	a Gain [#]	ERP		Evaluation Distance	ERP Limit
	(141112)	power [#] (dBm)	(dBi)	(dBd)	(dBm)	(mW)	(m)	(mW)
2.4G Wi-Fi	2412-2462	23.0	2.97	0.82	23.82	240.99	0.2	768

Note: 1. The tune up conducted power and antenna gain was declared by the applicant.

- 2. The 2.4G and 5G Wi-Fi cannot transmit at same time.
- 3. 0dBd=2.15dBi

To maintain compliance with the FCC's RF exposure guidelines, place the equipment at least 20cm from nearby persons.

Result: Compliant

Bay Area Compliance Laboratories Corp. (Shenzhen)	Report No.: 2501P26598E-RF-00A				
EUT PHOTOGRAPHS					
Please refer to the attachment 2501P26598E-RF External photo	o and 2501P26598E-RF Internal photo				
Trease refer to the attachment 25011 205702 for External prior	and 25011 20570E for internal photo.				

TEST SETUP PHOTOGRAPHS

Please refer to the attachment 2501P26598E-RFA Test Setup photo.

***** END OF REPORT *****

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