



TEST REPORT

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 Report Number:
 2401Y97990E-RFA

 FCC ID:
 2BGN6-SCZN0923

 IC:
 32482-SCZN0923

Test Standard (s)

FCC PART 15.247; RSS-GEN ISSUE 5, FEBRUARY 2021 AMENDMENT 2; RSS-247 ISSUE 3, AUGUST 2023

Sample Description

Product Type: Robot Vacuum Model No.: HOME-G10P

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

Date Received: 2024-10-08 Issue Date: 2025-03-04

Test Result: Pass▲

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

Prepared and Checked By: Approved By:

EKKO. Wu Nang Wang

Ekko Wu Nancy Wang
RF Engineer 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	2401Y97990E-RFA	Original Report	2025-03-04

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

HVIN	HOME-G10P		
FVIN	N/A		
Frequency Range	2412~2462MHz		
Maximum Conducted Output Peak Power	19.84dBm		
Modulation Technique	DSSS, OFDM		
Antenna Specification [#]	3.1dBi (It is provided by the applicant)		
Voltage Range	DC 14.4V from battery or DC 20V from Charging Dock		
Sample serial number	2U24-1 for Conducted and Radiated Emissions Test 2U24-2 for RF Conducted Test (Assigned by BACL, Shenzhen)		
Sample/EUT Status	Good condition		
Adapter Information	N/A		
Charging Dock Information	Model: HOME-G10P Rated Input: AC 100-240V, 50/60Hz, 0.2A, 50/60Hz, 36W Rated Output: DC 20V, 1A		
Battery Information	Model: SC260 Nominal Voltage: 14.4V _{DC} Rated Capacity/Energy: 4800mAh, 69.12Wh		

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Objective

This report is in accordance with Part 2-Subpart J, Part 15-Subparts A and C of the Federal Communication Commission's rules and RSS-GEN Issue 5, February 2021 Amendment 2 and RSS-247 Issue 3, August 2023 of the Innovation, Science and Economic Development Canada rules.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard of Procedures for Compliant Testing of Unlicensed Wireless Devices and RSS-GEN Issue 5, February 2021 Amendment 2 and RSS-247 Issue 3, August 2023.

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 Channel Bandwidth		andwidth	109.2kHz(k=2, 95% level of confidence)	
RF output	RF output power, conducted		0.86dB(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)	
	30MF	Iz~200MHz (Vertical)	5.43dB(k=2, 95% level of confidence)	
Radiated Emissions	200MHz	~1000MHz (Horizontal)	5.77dB(k=2, 95% level of confidence)	
Radiated Emissions	200MF	Iz~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)	
Te	Temperature		±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.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0023.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

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

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

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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

Lo I Lacreise Software					
Exercise	Software#	CMD.exe			
Mode	Data rate	Power Level [#]			
Mode	Data Tate	Low Channel	Middle Channel	High Channel	
802.11b	1Mbps	79	79	79	
802.11g	6Mbps	79	79	79	
802.11n20	MCS0	79	79	79	
802.11n40	MCS0	66	66	66	

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
/	/	/	/

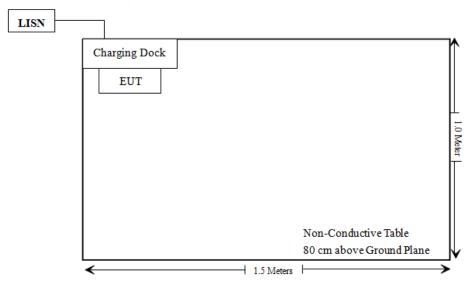
External I/O Cable

Cable Description	Length (m)	From Port	То
Un-shielding Un-Detachable AC Cable	1.5	Charging Dock	LISN/AC Mains

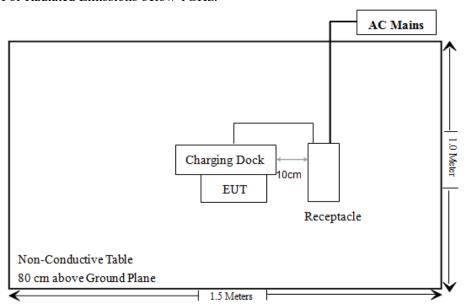
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Block Diagram of Test Setup

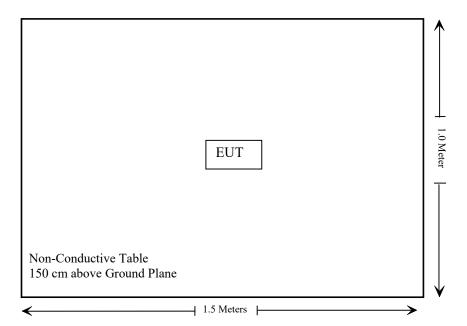
For Conducted Emissions:



For Radiated Emissions below 1GHz:



For Radiated Emissions above 1GHz:



SUMMARY OF TEST RESULTS

FCC Rules	RSS Rules	Description of Test	Result
FCC §15.203	RSS-Gen §6.8	Antenna Requirement	Compliant
FCC §15.207(a)	RSS-Gen §8.8	AC Line Conducted Emissions	Compliant
FCC §15.205,§15.209,§15.247(d)	RSS-GEN § 8.10 & RSS-247 § 5.5	Radiated Spurious Emission	Compliant
FCC §15.207(a)(2)	RSS- Gen§6.7 RSS-247 § 5.2 (a)	99% Occupied Bandwidth & 6 dB Emission Bandwidth	Compliant
FCC §15.247(b)(1)	RSS-247 § 5.4(d)	Maximum Conducted Output Power	Compliant
FCC §15.247(d)	RSS-247 § 5.5	100 kHz Bandwidth of Frequency Band Edge	Compliant
FCC §15.247(e)	RSS-247 § 5.2 (b)	Power Spectral Density	Compliant
C63.10 §11.6	C63.10 §11.6	Duty Cycle	Compliant
§15.247 (i), §1.1307 (b) (3) & §2.1091	RSS-102§6.6	MPE-Based Exemption & Field reference level exposure exemption limits	Compliant

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date		
	Conducted Emission Test						
Audix	EMI Test software	E3	191218(V9)	NCR	NCR		
Rohde & Schwarz	EMI Test Receiver	ESCI	101120	2024/01/16	2025/01/15		
Rohde & Schwarz	LISN	ENV216	101613	2024/01/16	2025/01/15		
Unknown	CE Cable	Unknown	UF A210B-1- 0720-504504	2024/05/21	2025/05/20		
Rohde & Schwarz	Transient Limiter	ESH3Z2	DE25985	2024/05/21	2025/05/20		
		Radiated Er	nission Test				
Audix	EMI Test software	E3	19821b(V9)	NCR	NCR		
Rohde & Schwarz	EMI Test Receiver	ESR3	102455	2024/01/16	2025/01/15		
Sonoma instrument	Pre-amplifier	310N	186238	2024/05/21	2025/05/20		
Unknown	Cable	XH500C	J-10M-A	2024/06/18	2025/06/17		
Unknown	Cable	Chamber Cable	F-03-EM236	2024/06/18	2025/06/17		
BACL	Active Loop Antenna	1313-1A	4031911	2024/05/14	2027/05/13		
Unknown	Cable	PNG214	1354	2024/05/21	2025/05/20		
Unknown	Cable	2Y194	0735	2024/05/21	2025/05/20		
Sunol Sciences	Broadband Antenna	ЈВ1	A040904-1	2023/07/20	2026/07/19		
Rohde&Schwarz	Spectrum Analyzer	FSV40	101605	2024/03/27	2025/03/26		
COM-POWER	Pre-amplifier	PA-122	181919	2024/06/18	2025/06/17		
Schwarzbeck	Horn Antenna	BBHA9120D(12 01)	1143	2023/07/26	2026/07/25		
Unknown	RF Cable	KMSE	0735	2024/06/18	2025/06/17		
Unknown	RF Cable	UFA147	219661	2024/06/18	2025/06/17		
Unknown	RF Cable	XH750A-N	J-10M	2024/06/18	2025/06/17		
JD	Multiplex Switch Test Control Set	DT7220FSU	DQ77926	2024/06/18	2025/06/17		
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	2024/06/18	2025/06/17		

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
		RF Cond	ucted Test		
Rohde & Schwarz	Spectrum Analyze	FSU26	200982	2024/09/20	2025/09/19
MARCONI	10dB Attenuator	6534/3	2942	2024/06/27	2025/06/26
Rohde&Schwarz	Spectrum Analyzer	FSV40-N	102259	2024/01/16	2025/01/15
ANRITSU	Microwave peak power sensor	MA24418A	12622	2024/05/21	2025/05/20

^{*} 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 (a) & RSS-GEN §8.8

Unless stated otherwise in the applicable RSS, for radio apparatus that are designed to be connected to the public utility AC power network, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the range 150 kHz to 30 MHz shall not exceed the limits in table 4, as measured using a 50 μH / 50 Ω line impedance stabilization network. This requirement applies for the radio frequency voltage measured between each power line and the ground terminal of each AC power-line mains cable of the EUT.

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For an EUT that connects to the AC power lines indirectly, through another device, the requirement for Compliant with the limits in table 4 shall apply at the terminals of the AC power-line mains cable of a representative support device, while it provides power to the EUT. The lower limit applies at the boundary between the frequency ranges. The device used to power the EUT shall be representative of typical applications.

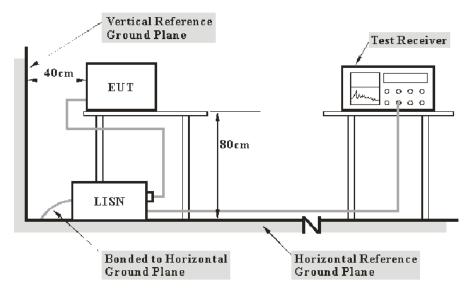
Table 4 - AC Power Lines Conducted Emission Limits				
Frequency range	Conducted limit (dBμV)			
(MHz)	Quasi-Peak Average			
0.15 - 0.5	66 to 56 ¹	56 to 46 ¹		
0.5 - 5	56	46		
5 – 30	60	50		

Note 1: The level decreases linearly with the logarithm of the frequency.

For an EUT with a permanent or detachable antenna operating between 150 kHz and 30 MHz, the AC power-line conducted emissions must be measured using the following configurations:

- (a) Perform the AC power-line conducted emissions test with the antenna connected to determine Compliant with the limits of table 4 outside the transmitter's fundamental emission band.
- (b) Retest with a dummy load instead of the antenna to determine Compliant with the limits of table 4 within the transmitter's fundamental emission band. For a detachable antenna, remove the antenna and connect a suitable dummy load to the antenna connector. For a permanent antenna, remove the antenna and terminate the RF output with a dummy load or network that simulates the antenna in the fundamental frequency band.

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 C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.207 & RSS-247/RSS-Gen limits.

The spacing between the peripherals was 10 cm.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

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;

According to RSS-GEN § 8.10 & RSS-247 § 5.5

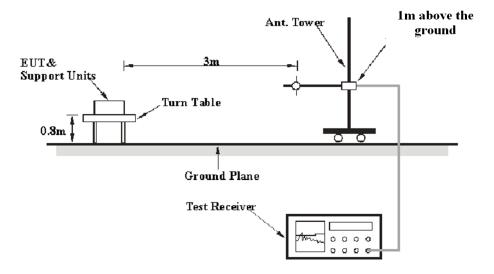
Restricted frequency bands, identified in table 7, are designated primarily for safety-of-life services (distress calling and certain aeronautical activities), certain satellite downlinks, radio astronomy and some government uses. Except where otherwise indicated, the following conditions related to the restricted frequency bands apply:(a) The transmit frequency, including fundamental components of modulation, of licence-exempt radio apparatus shall not fall within the restricted frequency bands listed in table 7 except for apparatus compliant with RSS-287, Emergency Position Indicating Radio Beacons (EPIRB), Emergency Locator Transmitters (ELT), Personal Locator Beacons (PLB), and Maritime Survivor Locator Devices (MSLD).(b) Unwanted emissions that fall into restricted frequency bands listed in table 7 shall comply with the limits specified in table 5 and table 6.(c) Unwanted emissions that do not fall within the restricted frequency bands listed in table 7 shall comply either with the limits specified in the applicable RSS or with those specified in table 5 and table 6.

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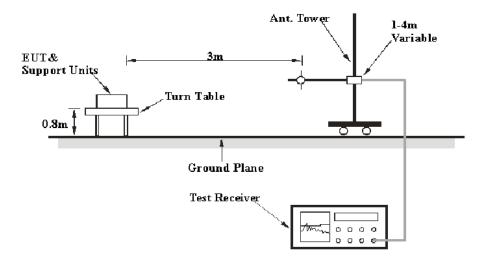
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided that the transmitter demonstrates Compliant with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted under section 5.4(d), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general field strength limits specified in RSS-Gen is not required.

EUT Setup

9 kHz-30MHz:

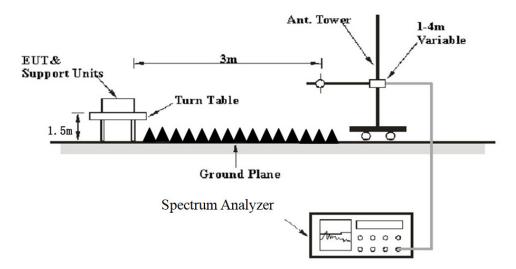


30MHz-1GHz:



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Above 1GHz:



The radiated emission tests were performed in the 3 meters test site, using the setup accordance with the ANSI C63.10-2013 & RSS-Gen. The specification used was the FCC 15.209, and FCC 15.247 & RSS-Gen limits.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

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:

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9 kHz-1GHz:

Frequency Range	RBW	Video B/W	IF B/W	Measurement
0 kHz 150 kHz	/	/	200 Hz	QP
9 kHz – 150 kHz	300 Hz	1 kHz	/	PK
150 kHz – 30 MHz	/	/	9 kHz	QP
130 KHZ — 30 MHZ	10 kHz	30 kHz	/	PK
30 MHz – 1000 MHz	/	/	120 kHz	QP
30 MHZ - 1000 MHZ	100 kHz	300 kHz	/	PK

1-25GHz:

Pre-scan

Measurement	Duty cycle	RBW	Video B/W
PK	Any	1MHz	3 MHz
	>98%	1MHz	5 kHz
AV	<98%	1MHz	≥1/Ton, not less than 5 kHz

Final measurement for emission identified during pre-scan

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

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.

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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

99% Occupied Bandwidth & 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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According to RSS-247 §5.2 a)

The minimum 6 dB bandwidth shall be 500 kHz.

According to RSS-Gen §6.7

The occupied bandwidth or the "99% emission bandwidth" is defined as the frequency range between two points, one above and the other below the carrier frequency, within which 99% of the total transmitted power of the fundamental transmitted emission is contained. The occupied bandwidth shall be reported for all equipment in addition to the specified bandwidth required in the applicable RSSs. In some cases, the "x dB bandwidth" is required, which is defined as the frequency range between two

In some cases, the "x dB bandwidth" is required, which is defined as the frequency range between two points, one at the lowest frequency below and one at the highest frequency above the carrier frequency, at which the maximum power level of the transmitted emission is attenuated x dB below the maximum inband power level of the modulated signal, where the two points are on the outskirts of the in-band emission.

The following conditions shall be observed for measuring the occupied bandwidth and x dB bandwidth:

- The transmitter shall be operated at its maximum carrier power measured under normal test conditions.
- The span of the spectrum analyzer shall be set large enough to capture all products of the modulation process, including the emission skirts, around the carrier frequency, but small enough to avoid having other emissions (e.g. on adjacent channels) within the span.
- The detector of the spectrum analyzer shall be set to "Sample". However, a peak, or peak hold, may be used in place of the sampling detector since this usually produces a wider bandwidth than the actual bandwidth (worst-case measurement). Use of a peak hold (or "Max Hold") may be necessary to determine the occupied / x dB bandwidth if the device is not transmitting continuously.
- The resolution bandwidth (RBW) shall be in the range of 1% to 5% of the actual occupied / x dB bandwidth and the video bandwidth (VBW) shall not be smaller than three times the RBW value. Video averaging is not permitted.

Note: It may be necessary to repeat the measurement a few times until the RBW and VBW are in compliance with the above requirement.

For the 99% emission bandwidth, the trace data points are recovered and directly summed in linear power level 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, and that frequency recorded. The process is repeated for the highest frequency data points (starting at the highest frequency, at the right side of the span, and going down in frequency). This frequency is then recorded. The difference between the two recorded frequencies is the occupied bandwidth (or the 99% emission bandwidth).

Test Procedure

Test Method: ANSI C63.10-2013 section 11.8&6.9.3

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.

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- 2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
- 3. Measure the frequency difference of two frequencies that were attenuated 6 dB from the reference level. Record the frequency difference as the emission bandwidth.
- 4. Repeat above procedures until all frequencies measured were complete.

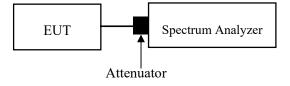
The following conditions shall be observed for measuring the occupied bandwidth and 6 dB bandwidth:

- The transmitter shall be operated at its maximum carrier power measured under normal test conditions.
- The span of the spectrum analyzer shall be set large enough to capture all products of the modulation process, including the emission skirts, around the carrier frequency, but small enough to avoid having other emissions (e.g. on adjacent channels) within the span.
- The detector of the spectrum analyzer shall be set to "Sample". However, a peak, or peak hold, may be used in place of the sampling detector since this usually produces a wider bandwidth than the actual bandwidth (worst-case measurement). Use of a peak hold (or "Max Hold") may be necessary to determine the occupied / 6 dB bandwidth if the device is not transmitting continuously.
- The resolution bandwidth (RBW) shall be in the range of 1% to 5% of the actual occupied / 6 dB bandwidth and the video bandwidth (VBW) shall not be smaller than three times the RBW value. Video averaging is not permitted.

Note: It may be necessary to repeat the measurement a few times until the RBW and VBW are in Compliant with the above requirement.

For the 99% emission bandwidth, the trace data points are recovered and directly summed in linear power level 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, and that frequency recorded. The process is repeated for the highest frequency data points (starting at the highest frequency, at the right side of the span, and going down in frequency). This frequency is then recorded. The difference between the two recorded frequencies is the occupied bandwidth (or the 99% emission bandwidth).



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.

Report No.: 2401Y97990E-RFA

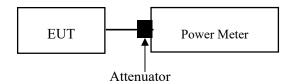
According to RSS-247§5.4 d) For DTSs employing digital modulation techniques operating in the bands 902-928 MHz and 2400-2483.5 MHz, the maximum peak conducted output power shall not exceed 1W. Except as provided in Section 5.4(e), the e.i.r.p. shall not exceed 4 W.

As an alternative to a peak power measurement, compliance can be based on a measurement of the maximum conducted output power. The maximum conducted output power is the total transmit power delivered to all antennas and antenna elements, averaged across all symbols in the signalling 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 transmitting at a reduced power level. If multiple modes of operation are implemented, the maximum conducted output power is the highest total transmit power occurring in any mode.

Test Procedure

Test Method: ANSI C63.10-2013 section 11.9.1.3 & 11.9.2.3.2

- a) Place the EUT on a bench and set it in transmitting mode.
- b) Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to one test equipment.
- c) 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)).

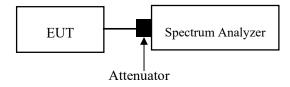
Report No.: 2401Y97990E-RFA

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced 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 that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted under section 5.4(d), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general field strength limits specified in RSS-Gen is not required

Test Procedure

Test Method: ANSI C63.10-2013 section 11.11

- a) Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- b) Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
- c) Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
- d) Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
- e) Repeat above procedures until all measured frequencies were complete.



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.

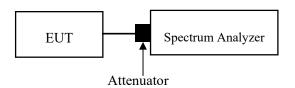
Report No.: 2401Y97990E-RFA

The transmitter power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of section 5.4(d), (i.e. the power spectral density shall be determined using the same method as is used to determine the conducted output power).

Test Procedure

Test Method: ANSI C63.10-2013 section 11.10.2

- a) Set analyzer center frequency to DTS channel center frequency.
- b) Set the span to 1.5 times the DTS bandwidth.
- c) Set the RBW to 3 kHz \leq RBW \leq 100 kHz.
- d) Set the VBW \geq [3 × RBW].
- e) Detector = peak.
- f) Sweep time = auto couple. 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

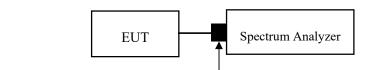
According to ANSI C63.10-2013 Section 11.6

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

Report No.: 2401Y97990E-RFA

- 1) Set the center frequency of the instrument to the center frequency of the transmission.
- 2) Set RBW ≥ OBW if possible; otherwise, set RBW to the largest available value.
 3) Set VBW ≥ 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 $T \le 16.7 \mu s$.)

Attenuator



TR-EM-RF012 Page 24 of 113 Version 4.0

ANTENNA REQUIREMENT

Applicable Standard

According to § 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the user of a standard antenna jack or electrical connector is prohibited. The structure and application of the EUT were analyzed to determine Compliant with section §15.203 of the rules. §15.203 state that the subject device must meet the following criteria:

Report No.: 2401Y97990E-RFA

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

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

The applicant for equipment certification shall provide a list of all antenna types that may be used with the transmitter, where applicable (i.e. for transmitters with detachable antenna), indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna. The test report shall demonstrate the Compliant of the transmitter with the limit for maximum equivalent isotropically radiated power (e.i.r.p.) specified in the applicable RSS, when the transmitter is equipped with any antenna type, selected from this list.

For expediting the testing, measurements may be performed using only the antenna with highest gain of each combination of transmitter and antenna type, with the transmitter output power set at the maximum level. However, the transmitter shall comply with the applicable requirements under all operational conditions and when in combination with any type of antenna from the list provided in the test report (and in the notice to be included in the user manual, provided below).

When measurements at the antenna port are used to determine the RF output power, the effective gain of the device's antenna shall be stated, based on a measurement or on data from the antenna's manufacturer.

The test report shall state the RF power, output power setting and spurious emission measurements with each antenna type that is used with the transmitter being tested.

For licence-exempt equipment with detachable antennas, the user manual shall also contain the following notice in a conspicuous location:

This radio transmitter [enter the device's ISED certification number] has been approved by Innovation, Science and Economic Development Canada to operate with the antenna types listed below, with the maximum permissible gain indicated. Antenna types not included in this list that have a gain greater than the maximum gain indicated for any type listed are strictly prohibited for use with this device. Immediately following the above notice, the manufacturer shall provide a list of all antenna types which can be used with the transmitter, indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna type.

Antenna Connector Construction

The EUT has an internal antenna arrangement, which was permanently attached, the antenna gain[#] is 3.1dBi, fulfill the requirement of this section. Please refer to the EUT photos.

Report No.: 2401Y97990E-RFA

Antenna Type	Antenna Gain [#]	Impedance	Frequency Range		
FPC	3.1dBi	50Ω	2.4~2.5GHz		

Result: Compliant

TEST DATA AND RESULTS

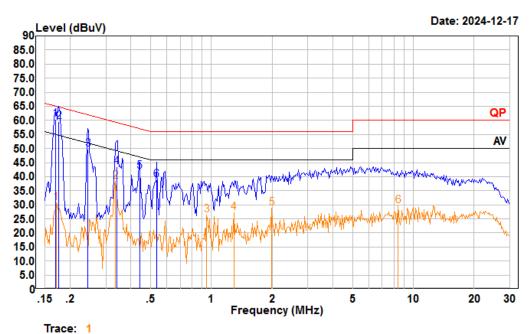
AC Line Conducted Emissions

Environmental Conditions

Temperature (°C)	24.2	Relative Humidity (%)	35				
ATM Pressure (kPa)	101.3	Test engineer	Macy Shi				
Test date	2024.12.17	2024.12.17					
EUT operation mode	Transmitting (Maximum	Transmitting (Maximum output power mode, 802.11n40 2452MHz)					

AC120V 60 Hz, Line

Report No.: 2401Y97990E-RFA



Condition: Line

Project : 2401Y97990E-RF

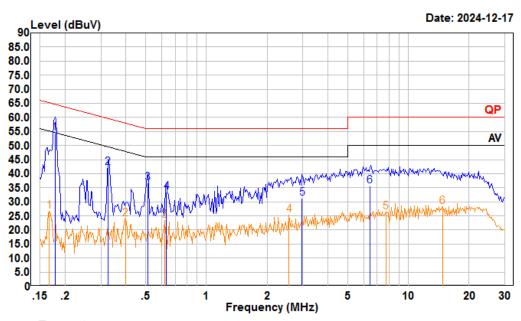
tester : Macy.shi Note:Transmitting

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

	Freq	Read Level	Level	LISN Factor	Cable Loss	Limit Line	Over Limit	Remark
	MHz	dBuV	dBuV	dB	dB	dBuV	dB	
1	0.169	39.40	60.36	10.86	10.10	65.03	-4.67	QP
2	0.176	38.70	59.64	10.84	10.10	64.68	-5.04	QP
3	0.244	28.91	49.72	10.73	10.08	61.95	-12.23	QP
4	0.339	22.89	43.64	10.63	10.12	59.22	-15.58	QP
5	0.442	21.20	41.86	10.54	10.12	57.02	-15.16	QP
6	0.535	18.20	38.83	10.50	10.13	56.00	-17.17	QP
		Read		LISN	Cable	Limit	0ver	
	Freq	Level	Level	Factor	Loss	Line	Limit	Remark
	MHz	dBuV	dBuV	——dB	dB	dBuV	——dB	
1	0.170	9.84	30.80	10.86	10.10	54.94	-24.14	Average
2	0.336	17.56	38.31	10.63	10.12	49.31	-11.00	Average
3	0.948	5.95	26.46	10.41	10.10	46.00	-19.54	Average
4	1.289	6.63	27.25	10.47	10.15	46.00	-18.75	Average
5	1.991	7.96	28.75	10.60	10.19	46.00	-17.25	Average
6	8.412	8.80	29.55	10.55	10.20	50.00	-20.45	Average

AC120V 60 Hz, Neutral

Report No.: 2401Y97990E-RFA



Trace: 1

Condition: Neutral

Project : 2401Y97990E-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	0.178	33.90	54.48	10.48	10.10	64.59	-10.11	QP
2	0.325	21.39	42.07	10.56	10.12	59.57	-17.50	QP
3	0.513	15.90	36.74	10.70	10.14	56.00	-19.26	QP
4	0.634	12.50	33.33	10.70	10.13	56.00	-22.67	QP
5	2.978	10.60	31.18	10.40	10.18	56.00	-24.82	QP
6	6.454	14.79	35.64	10.66	10.19	60.00	-24.36	QP
		Read		LISN	Cable	Limit	0ver	
	Freq	Level	Level	Factor	Loss	Line	Limit	Remark
	MHz	dBuV	dBuV	dB	dB	dBuV	dB	
1	0.167	6.04	26.67	10.53	10.10	55.12	-28.45	Average
2	0.398	3.28	24.00	10.62	10.10	47.90	-23.90	Average
3	0.621	2.55	23.38	10.70	10.13	46.00	-22.62	Average
4	2.567	4.72	25.29	10.40	10.17	46.00	-20.71	Average
5	7.728	5.36	26.28	10.73	10.19	50.00	-23.72	Average
6	14.750	7.25	28.27	10.80	10.22	50.00	-21.73	Average

Spurious Emissions

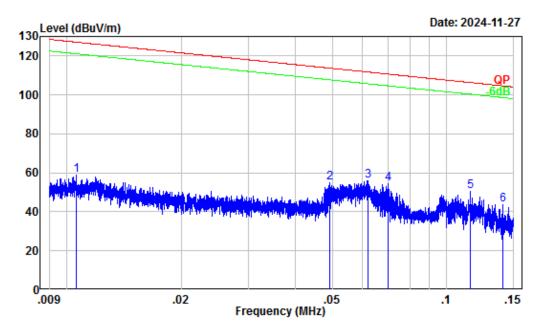
Environmental Conditions

Temperature (°C)	24~25	Relative Humidity (%)	54~50				
ATM Pressure (kPa):	101		Anson Su & Zenos Qiao				
Test date:	2024.11.27~2024.12.03						
EUT operation mode:	Below 1GHz: Transmitting (Maximum output power mode, 802.11n40 2452MHz) Above 1GHz: Transmitting						
Note:	was recorded. 2. For the radiated spurioless than the limit of QP. 3. The spurious emission	ous emission below 30MI/Average more than 6dB, n from 9 kHz-30MHz of l	Hz, only the worst case (parallel) Hz, When the test result of peak was just peak value were recorded. IC RSS-GEN standard, the unit of mit should be added by 51,5 dB from				

Below 1GHz:

9kHz-150kHz

Report No.: 2401Y97990E-RFA



Site : Chamber A

Condition : 3m

Project Number : 2401Y97990E-RF

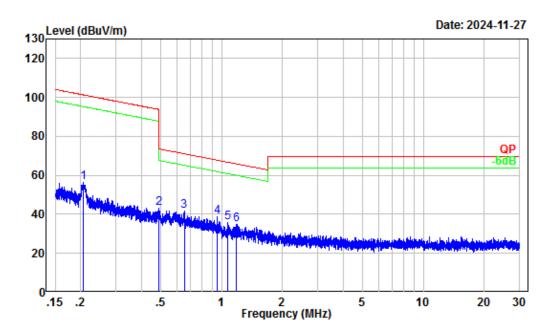
Test Mode : 2.4G WIFI Transmitting

Detector: Peak RBW/VBW: 0.3/1kHz Tester : Anson Su

	Freq	Factor			Limit Line		Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.01	32.18	26.44	58.62	127.09	-68.47	Peak
2	0.05	26.48	28.66	55.14	113.75	-58.61	Peak
3	0.06	25.19	30.89	56.08	111.75	-55.67	Peak
4	0.07	24.39	30.23	54.62	110.69	-56.07	Peak
5	0.12	21.09	29.65	50.74	106.36	-55.62	Peak
6	0.14	19.61	23.85	43.46	104.65	-61.19	Peak

150KHz-30MHz

Report No.: 2401Y97990E-RFA



Site : Chamber A

Condition : 3m

Project Number : 2401Y97990E-RF

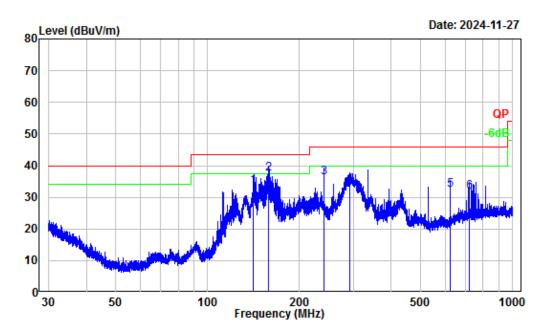
Test Mode : 2.4G WIFI Transmitting

Detector: Peak RBW/VBW: 10/30kHz Tester : Anson Su

	Freq	Factor			Limit Line		Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.21	15.69	40.53	56.22	101.29	-45.07	Peak
2	0.49	6.57	36.58	43.15	73.78	-30.63	Peak
3	0.65	4.51	36.97	41.48	71.25	-29.77	Peak
4	0.95	1.58	37.27	38.85	67.94	-29.09	Peak
5	1.07	0.99	34.59	35.58	66.84	-31.26	Peak
6	1.19	0.67	34.23	34.90	65.94	-31.04	Peak

30MHz-1GHz_Horizontal

Report No.: 2401Y97990E-RFA



Site : Chamber A
Condition : 3m Horizontal
Project Number : 2401Y97990E-RF

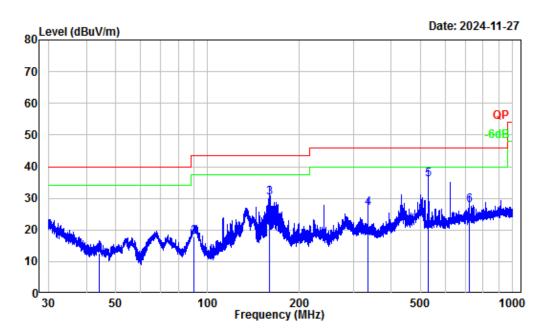
Test Mode : 2.4G WIFI Transmitting

Detector: Peak RBW/VBW: 100/300kHz Tester : Anson Su

	Freq	Factor			Limit Line		Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	141.39	-11.93	45.31	33.38	43.50	-10.12	QP
2	158.11	-12.64	50.00	37.36	43.50	-6.14	QP
3	239.99	-13.32	49.57	36.25	46.00	-9.75	QP
4	291.67	-11.21	45.00	33.79	46.00	-12.21	QP
5	624.26	-4.69	37.02	32.33	46.00	-13.67	QP
6	720.15	-3.20	34.97	31.77	46.00	-14.23	QP

30MHz-1GHz_Vertical

Report No.: 2401Y97990E-RFA



Site : Chamber A
Condition : 3m Vertical
Project Number : 2401Y97990E-RF

Test Mode : 2.4G WIFI Transmitting

Detector: Peak RBW/VBW: 100/300kHz Tester : Anson Su

	Freq	Factor			Limit Line		Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	44.10	-15.24	27.90	12.66	40.00	-27.34	QP
2	90.14	-17.97	35.92	17.95	43.50	-25.55	QP
3	159.16	-12.73	43.02	30.29	43.50	-13.21	QP
4	336.04	-10.50	37.33	26.83	46.00	-19.17	QP
5	528.01	-5.80	41.80	36.00	46.00	-10.00	QP
6	720.15	-3.20	30.97	27.77	46.00	-18.23	QP

Above 1GHz:

	Reco	eiver		_	Corrected		Margin (dB)
Frequency (MHz)	Reading (dBµV)	PK/Ave	Polar (H/V)	Factor (dB/m)	Amplitude (dBµV/m)	Limit (dBµV/m)	
			802	.11b			
			Low C	Channel			
4824	52.57	PK	Н	2.45	55.02	74	-18.98
4824	47.1	AV	Н	2.45	49.55	54	-4.45
4824	51.86	PK	V	2.45	54.31	74	-19.69
4824	46.73	AV	V	2.45	49.18	54	-4.82
			Middle	Channel			
4874	53.7	PK	Н	2.56	56.26	74	-17.74
4874	48.43	AV	Н	2.56	50.99	54	-3.01
4874	52.87	PK	V	2.56	55.43	74	-18.57
4874	47.99	AV	V	2.56	50.55	54	-3.45
			High C	Channel	.		
4924	51.48	PK	Н	2.63	54.11	74	-19.89
4924	46.52	AV	Н	2.63	49.15	54	-4.85
4924	50.74	PK	V	2.63	53.37	74	-20.63
4924	46.13	AV	V	2.63	48.76	54	-5.24
			802	.11g	•		
			Low C	hannel			
4824	51.59	PK	Н	2.45	54.04	74	-19.96
4824	37.25	AV	Н	2.45	39.7	54	-14.3
4824	50.76	PK	V	2.45	53.21	74	-20.79
4824	36.87	AV	V	2.45	39.32	54	-14.68
			Middle	Channel			
4874	52.74	PK	Н	2.56	55.3	74	-18.7
4874	38.11	AV	Н	2.56	40.67	54	-13.33
4874	51.93	PK	V	2.56	54.49	74	-19.51
4874	37.82	AV	V	2.56	40.38	54	-13.62
			High C	Channel			
4924	50.84	PK	Н	2.63	53.47	74	-20.53
4924	35.7	AV	Н	2.63	38.33	54	-15.67
4924	50.11	PK	V	2.63	52.74	74	-21.26
4924	35.39	AV	V	2.63	38.02	54	-15.98

-	Receiver			_	Corrected		
Frequency (MHz)	Reading (dBµV)	PK/Ave	Polar (H/V)	Factor (dB/m)	Amplitude (dBµV/m)	Limit (dBμV/m)	Margin (dB)
			802.	11n20			
			Low C	Channel			
4824	51.62	PK	Н	2.45	54.07	74	-19.93
4824	37.09	AV	Н	2.45	39.54	54	-14.46
4824	50.87	PK	V	2.45	53.32	74	-20.68
4824	36.71	AV	V	2.45	39.16	54	-14.84
			Middle	Channel		<u> </u>	
4874	52.55	PK	Н	2.56	55.11	74	-18.89
4874	37.36	AV	Н	2.56	39.92	54	-14.08
4874	51.81	PK	V	2.56	54.37	74	-19.63
4874	37.07	AV	V	2.56	39.63	54	-14.37
			High (Channel		<u> </u>	
4924	50.75	PK	Н	2.63	53.38	74	-20.62
4924	35.68	AV	Н	2.63	38.31	54	-15.69
4924	49.94	PK	V	2.63	52.57	74	-21.43
4924	35.22	AV	V	2.63	37.85	54	-16.15
			802.	11n40		<u> </u>	
			Low (Channel			
4844	49.51	PK	Н	2.45	51.96	74	-22.04
4844	35.18	AV	Н	2.45	37.63	54	-16.37
4844	48.83	PK	V	2.45	51.28	74	-22.72
4844	34.79	AV	V	2.45	37.24	54	-16.76
			Middle	Channel			
4874	50.44	PK	Н	2.56	53	74	-21
4874	35.67	AV	Н	2.56	38.23	54	-15.77
4874	49.7	PK	V	2.56	52.26	74	-21.74
4874	35.32	AV	V	2.56	37.88	54	-16.12
			High (Channel		<u>"</u>	
4904	48.89	PK	Н	2.64	51.53	74	-22.47
4904	34.66	AV	Н	2.64	37.3	54	-16.7
4904	48.05	PK	V	2.64	50.69	74	-23.31
4904	34.27	AV	V	2.64	36.91	54	-17.09

Report No.: 2401Y97990E-RFA

Note:

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

Corrected Amplitude = Corrected Factor + Reading

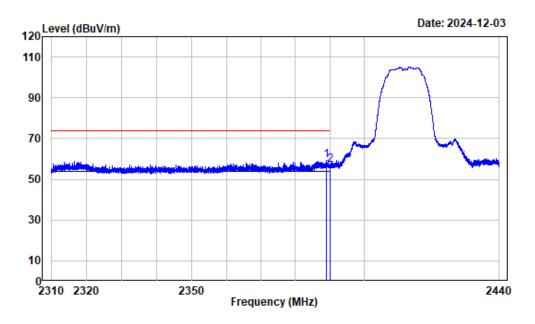
Margin = Corrected. Amplitude - Limit

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

Test plots

Left Band edge_Horizontal_Peak

Report No.: 2401Y97990E-RFA



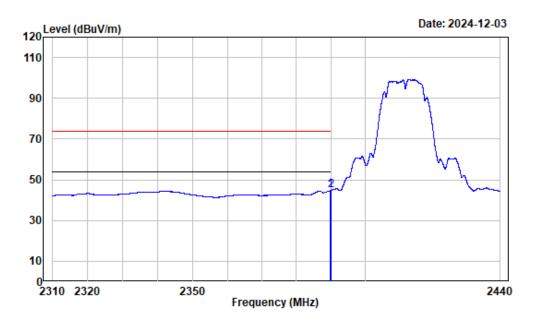
Condition : Horizontal
Project No. : 2401Y97990E-RF
Tester : Zenos Qiao

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	2388.936	-3.20	62.33	59.13	74.00	-14.87	Peak
2	2390.000	-3.20	60.31	57.11	74.00	-16.89	Peak

Left Band edge_Horizontal_Average

Report No.: 2401Y97990E-RFA



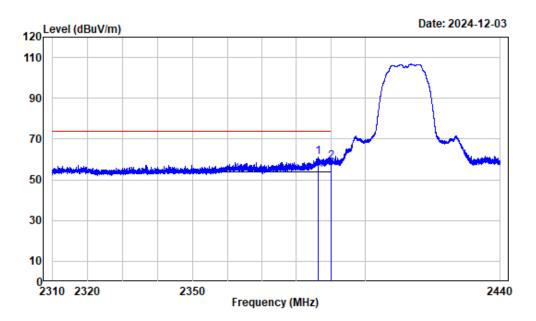
Condition : Horizontal
Project No. : 2401Y97990E-RF
Tester : Zenos Qiao

Spectrum setting: Average reading:RBW:1MHz VBW:10Hz Detector:Peak

	Freq	Factor			Limit Line		Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	2389.892	-3.20	48.02	44.82	54.00	-9.18	Average
2	2390.000	-3.20	47.90	44.70	54.00	-9.30	Average

Left Band edge_Vertical_Peak

Report No.: 2401Y97990E-RFA



Condition : Vertical Project No. : 2401Y97990E-RF

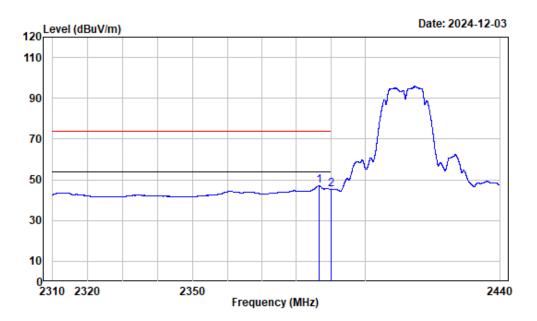
Tester : Zenos Qiao

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	2386.336	-3.19	64.35	61.16	74.00	-12.84	Peak	
2	2390.000	-3.20	62.22	59.02	74.00	-14.98	Peak	

Left Band edge_Vertical_Average

Report No.: 2401Y97990E-RFA



Condition : Vertical

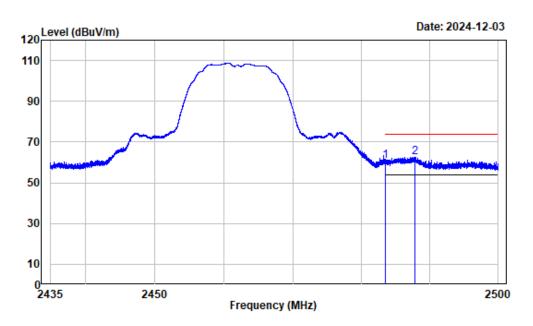
Project No. : 2401Y97990E-RF Tester : Zenos Qiao

Spectrum setting: Average reading:RBW:1MHz VBW:10Hz Detector:Peak

	Freq	Factor			Limit Line		Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	2386.515	-3.19	50.30	47.11	54.00	-6.89	Average
2	2390.000	-3.20	48.37	45.17	54.00	-8.83	Average

Right Band edge_Horizontal_Peak

Report No.: 2401Y97990E-RFA



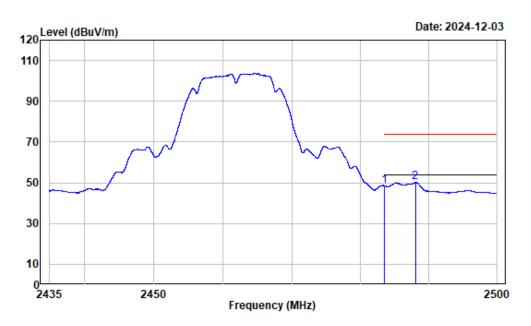
Condition : Horizontal
Project No. : 2401Y97990E-RF
Tester : Zenos Qiao

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	-3.17	64.00	60.83	74.00	-13.17	Peak
2	2487.819	-3.18	65.83	62.65	74.00	-11.35	Peak

Right Band edge_Horizontal_Average

Report No.: 2401Y97990E-RFA

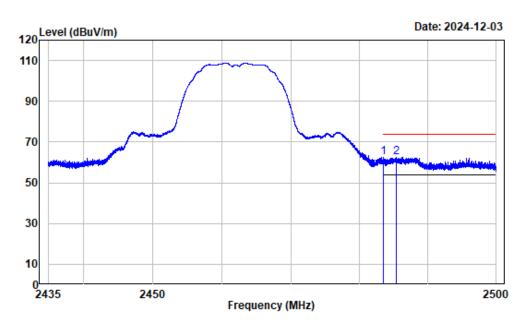


Condition : Horizontal
Project No. : 2401Y97990E-RF
Tester : Zenos Qiao

Spectrum setting: Average reading:RBW:1MHz VBW:10Hz Detector:Peak

	Freq	Factor			Limit Line		Remark	
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB		-
1	2483.500	-3.17	51.68	48.51	54.00	-5.49	Average	
2	2487.990	-3.18	53.37	50.19	54.00	-3.81	Average	

Right Band edge_Vertical_Peak



Condition : Vertical

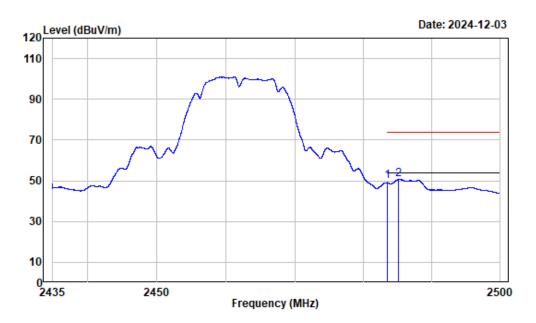
Project No. : 2401Y97990E-RF Tester : Zenos Qiao

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	-3.17	65.44	62.27	74.00	-11.73	Peak
2	2485.397	-3.17	65.88	62.71	74.00	-11.29	Peak

Right Band edge_Vertical_Average

Report No.: 2401Y97990E-RFA



Condition : Vertical

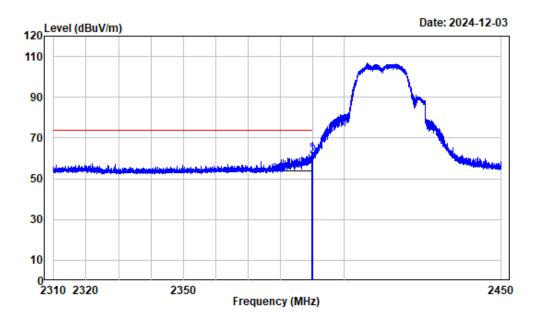
Project No. : 2401Y97990E-RF Tester : Zenos Qiao

Spectrum setting: Average reading:RBW:1MHz VBW:10Hz Detector:Peak

	Freq	Factor			Limit Line		Remark	
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB		_
1	2483.500	-3.17	53.02	49.85	54.00	-4.15	Average	
2	2485.146	-3.17	54.06	50.89	54.00	-3.11	Average	

Left Band edge_Horizontal_Peak

Report No.: 2401Y97990E-RFA



Condition : Horizontal
Project No. : 2401Y97990E-RF
Tester : Zenos Qiao

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

Note : 2.4GWiFi-g-2412

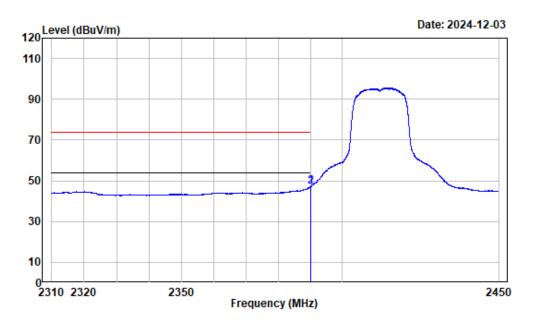
Read Limit Over
Level Level Line Limit Remark

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

1 2389.792 -3.20 65.78 62.58 74.00 -11.42 Peak
2 2390.000 -3.20 64.19 60.99 74.00 -13.01 Peak

Left Band edge_Horizontal_Average

Report No.: 2401Y97990E-RFA



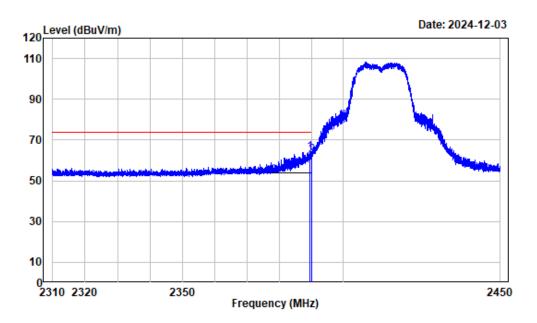
Condition : Horizontal
Project No. : 2401Y97990E-RF
Tester : Zenos Qiao

Spectrum setting: Average reading:RBW:1MHz VBW:10Hz Detector:Peak

	Freq	Factor			Limit Line		Remark	
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB		-
1	2389.985	-3.20	50.47	47.27	54.00	-6.73	Average	
2	2390.000	-3.20	50.32	47.12	54.00	-6.88	Average	

Left Band edge_Vertical_Peak

Report No.: 2401Y97990E-RFA



Condition : Vertical

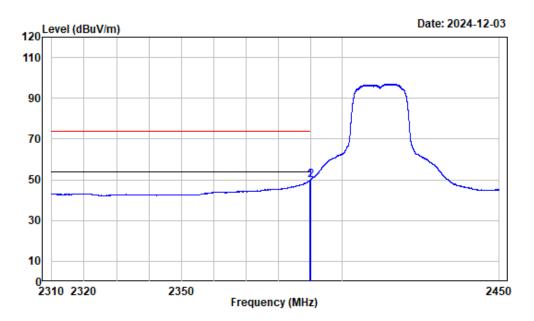
Project No. : 2401Y97990E-RF Tester : Zenos Qiao

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	2389.565	-3.20	67.18	63.98	74.00	-10.02	Peak
2	2390.000	-3.20	65.56	62.36	74.00	-11.64	Peak

Left Band edge_Vertical_Average

Report No.: 2401Y97990E-RFA



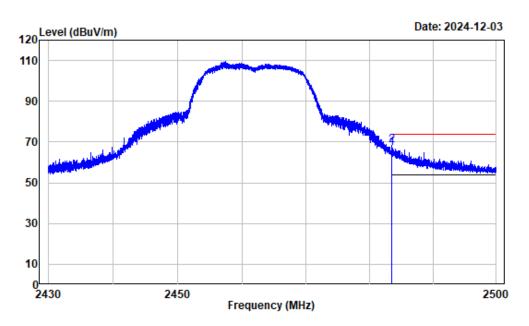
Condition : Vertical

Project No. : 2401Y97990E-RF Tester : Zenos Qiao

Spectrum setting: Average reading:RBW:1MHz VBW:10Hz Detector:Peak

	Freq	Factor			Limit Line		Remark	
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB		-
1	2389.950	-3.20	53.17	49.97	54.00	-4.03	Average	
2	2390.000	-3.20	53.03	49.83	54.00	-4.17	Average	

Right Band edge_Horizontal_Peak

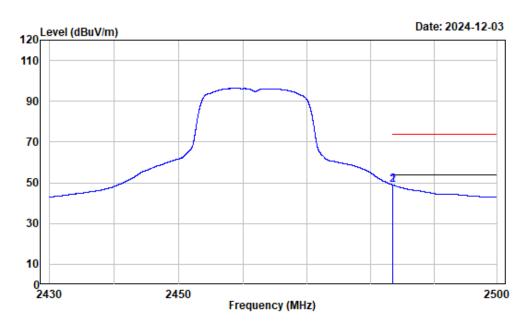


Condition : Horizontal
Project No. : 2401Y97990E-RF
Tester : Zenos Qiao

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	-3.17	70.29	67.12	74.00	-6.88	Peak
2	2483.504	-3.17	71.44	68.27	74.00	-5.73	Peak

Right Band edge_Horizontal_Average

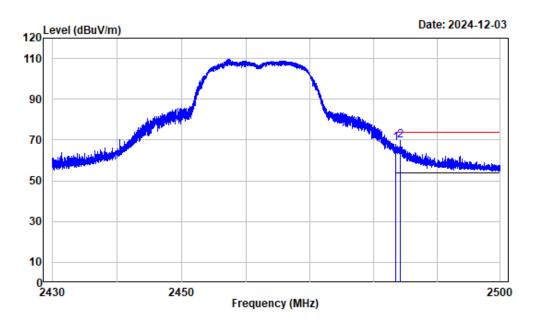


Condition : Horizontal
Project No. : 2401Y97990E-RF
Tester : Zenos Qiao

Spectrum setting: Average reading:RBW:1MHz VBW:10Hz Detector:Peak

	Freq	Factor			Limit Line		Remark	
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB		_
1	2483.500	-3.17	52.16	48.99	54.00	-5.01	Average	
2	2483.515	-3.17	52.29	49.12	54.00	-4.88	Average	

Right Band edge_Vertical_Peak



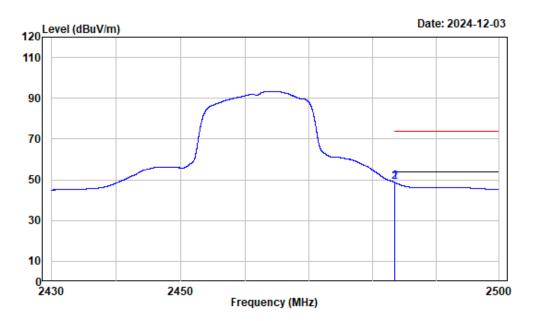
Condition : Vertical

Project No. : 2401Y97990E-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	-3.17	71.51	68.34	74.00	-5.66	Peak
2	2484.266	-3.17	72.69	69.52	74.00	-4.48	Peak

Right Band edge_Vertical_Average



Condition : Vertical

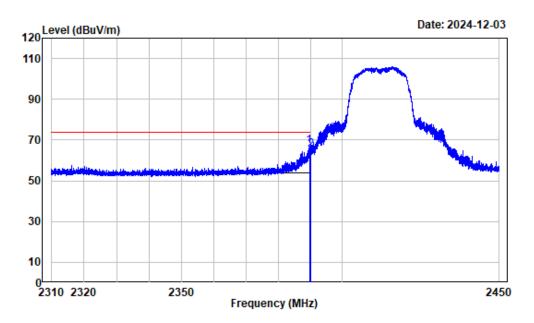
Project No. : 2401Y97990E-RF Tester : Zenos Qiao

Spectrum setting: Average reading:RBW:1MHz VBW:10Hz Detector:Peak

	Freq	Factor			Limit Line		Remark	
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB		-
1	2483.500	-3.17	51.86	48.69	54.00	-5.31	Average	
2	2483.542	-3.17	52.01	48.84	54.00	-5.16	Average	

Left Band edge_Horizontal_Peak

Report No.: 2401Y97990E-RFA



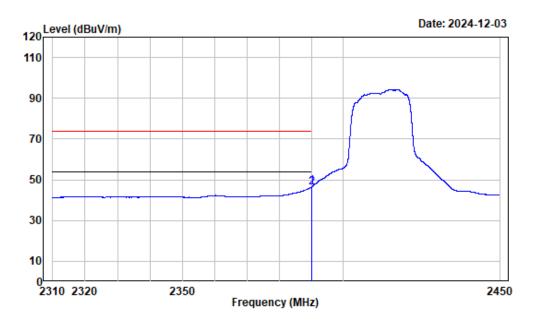
Condition : Horizontal
Project No. : 2401Y97990E-RF
Tester : Zenos Qiao

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	2389.670	-3.20	70.10	66.90	74.00	-7.10	Peak
2	2390.000	-3.20	68.57	65.37	74.00	-8.63	Peak

Left Band edge_Horizontal_Average

Report No.: 2401Y97990E-RFA



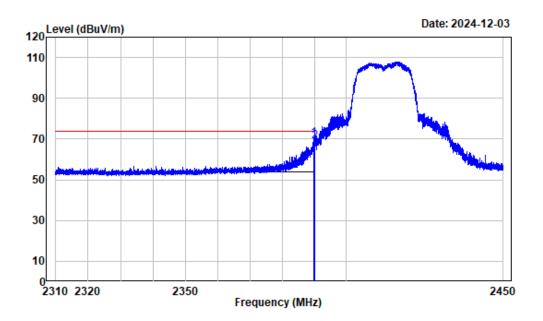
Condition : Horizontal
Project No. : 2401Y97990E-RF
Tester : Zenos Qiao

Spectrum setting: Average reading:RBW:1MHz VBW:10Hz Detector:Peak

	Freq	Factor			Limit Line		Remark	
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	——dB		_
1	2389.985	-3.20	49.72	46.52	54.00	-7.48	Average	
2	2390.000	-3.20	49.60	46.40	54.00	-7.60	Average	

Left Band edge_Vertical_Peak

Report No.: 2401Y97990E-RFA



Condition : Vertical Project No. : 2401Y97990E-RF

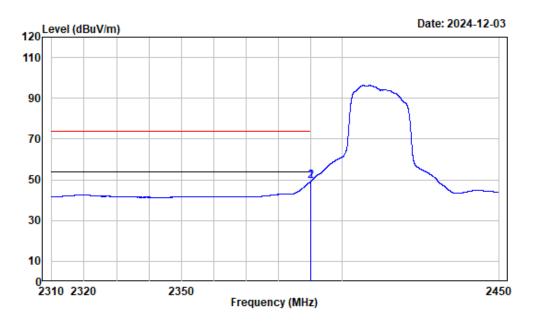
Tester : Zenos Qiao

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	2389.792	-3.20	73.43	70.23	74.00	-3.77	Peak
2	2390.000	-3.20	72.04	68.84	74.00	-5.16	Peak

Left Band edge_Vertical_Average

Report No.: 2401Y97990E-RFA



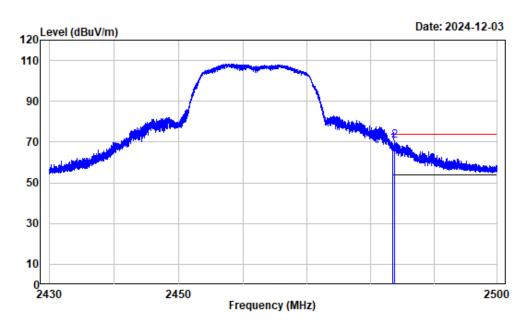
Condition : Vertical

Project No. : 2401Y97990E-RF Tester : Zenos Qiao

Spectrum setting: Average reading:RBW:1MHz VBW:10Hz Detector:Peak

	Freq	Factor			Limit Line		Remark	
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB		-
1	2389.985	-3.20	52.43	49.23	54.00	-4.77	Average	
2	2390.000	-3.20	52.35	49.15	54.00	-4.85	Average	

Right Band edge_Horizontal_Peak

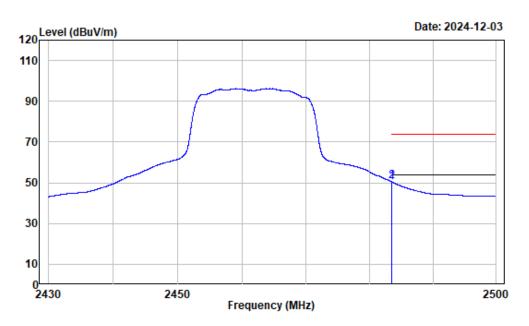


Condition : Horizontal
Project No. : 2401Y97990E-RF
Tester : Zenos Qiao

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	-3.17	72.37	69.20	74.00	-4.80	Peak	
2	2483.732	-3.17	73.77	70.60	74.00	-3.40	Peak	

Right Band edge_Horizontal_Average

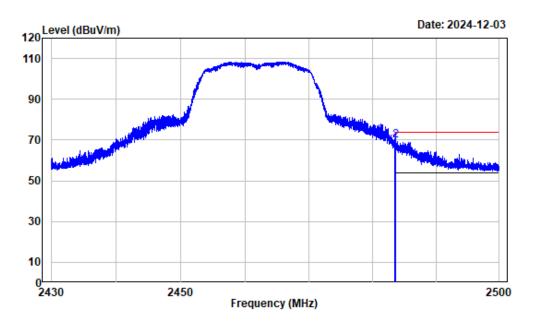


Condition : Horizontal
Project No. : 2401Y97990E-RF
Tester : Zenos Qiao

Spectrum setting: Average reading:RBW:1MHz VBW:10Hz Detector:Peak

	Freq	Factor			Limit Line		Remark	
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB		_
1	2483.500	-3.17	53.56	50.39	54.00	-3.61	Average	
2	2483.517	-3.17	53.67	50.50	54.00	-3.50	Average	

Right Band edge_Vertical_Peak



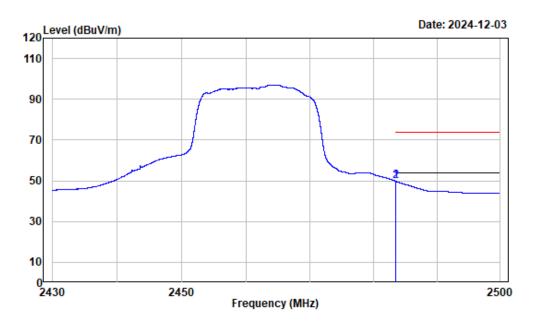
Condition : Vertical

Project No. : 2401Y97990E-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	-3.17	71.30	68.13	74.00	-5.87	Peak
2	2483.670	-3.17	72.87	69.70	74.00	-4.30	Peak

Right Band edge_Vertical_Average



Condition : Vertical

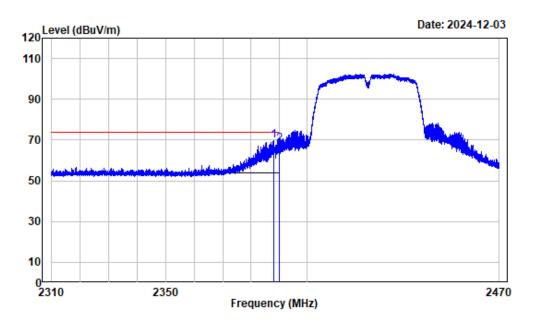
Project No. : 2401Y97990E-RF Tester : Zenos Qiao

Spectrum setting: Average reading:RBW:1MHz VBW:10Hz Detector:Peak

	Freq	Factor			Limit Line		Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	2483.500	-3.17	52.93	49.76	54.00	-4.24	Average
2	2483.525	-3.17	53.15	49.98	54.00	-4.02	Average

Left Band edge_Horizontal_Peak

Report No.: 2401Y97990E-RFA



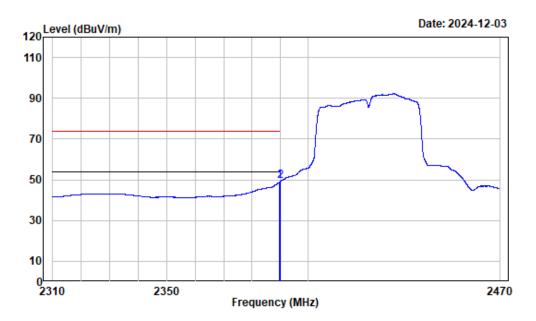
Condition : Horizontal
Project No. : 2401Y97990E-RF
Tester : Zenos Qiao

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	2388.230	-3.20	73.07	69.87	74.00	-4.13	Peak
2	2390.000	-3.20	71.31	68.11	74.00	-5.89	Peak

Left Band edge_Horizontal_Average

Report No.: 2401Y97990E-RFA



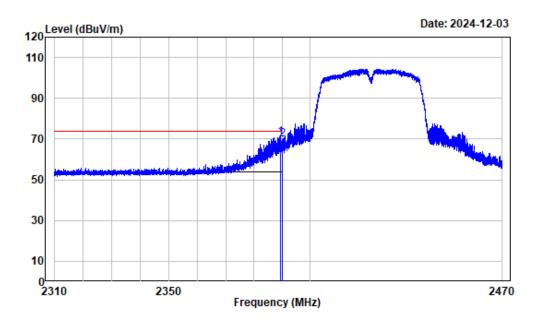
Condition : Horizontal
Project No. : 2401Y97990E-RF
Tester : Zenos Qiao

Spectrum setting: Average reading:RBW:1MHz VBW:10Hz Detector:Peak

	Freq	Factor			Limit Line		Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	2389.910	-3.20	52.48	49.28	54.00	-4.72	Average
2	2390.000	-3.20	52.36	49.16	54.00	-4.84	Average

Left Band edge_Vertical_Peak

Report No.: 2401Y97990E-RFA



Condition : Vertical
Project No. : 2401Y97990E-RF

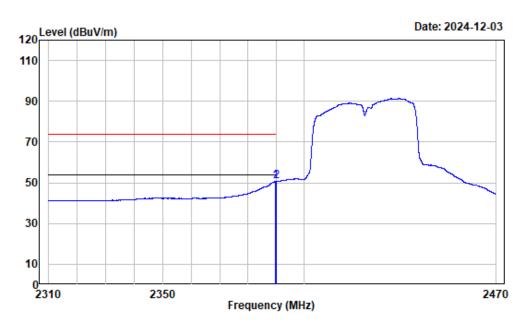
Tester : Zenos Qiao

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	2389.450	-3.20	74.03	70.83	74.00	-3.17	Peak
2	2390.000	-3.20	72.92	69.72	74.00	-4.28	Peak

Left Band edge_Vertical_Average

Report No.: 2401Y97990E-RFA



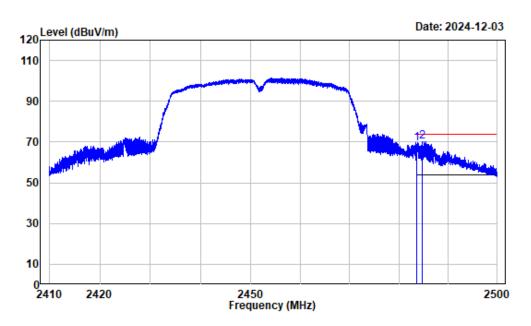
Condition : Vertical

Project No. : 2401Y97990E-RF Tester : Zenos Qiao

Spectrum setting: Average reading:RBW:1MHz VBW:10Hz Detector:Peak

	Freq	Factor			Limit Line		Remark	
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB		_
1	2389.896	-3.20	54.06	50.86	54.00	-3.14	Average	
2	2390.000	-3.20	53.95	50.75	54.00	-3.25	Average	

Right Band edge_Horizontal_Peak

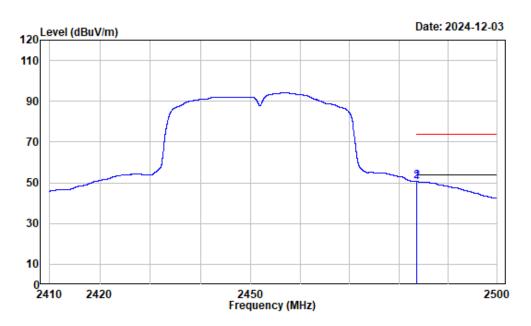


Condition : Horizontal
Project No. : 2401Y97990E-RF
Tester : Zenos Qiao

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	-3.17	72.42	69.25	74.00	-4.75	Peak	
2	2484.631	-3.17	73.53	70.36	74.00	-3.64	Peak	

Right Band edge_Horizontal_Average

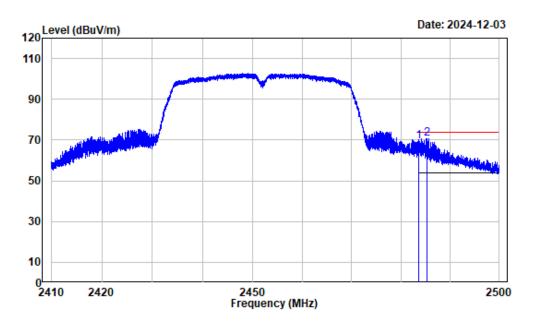


Condition : Horizontal
Project No. : 2401Y97990E-RF
Tester : Zenos Qiao

Spectrum setting: Average reading:RBW:1MHz VBW:10Hz Detector:Peak

	Freq	Factor			Limit Line		Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	2483.500	-3.17	53.59	50.42	54.00	-3.58	Average
2	2483.573	-3.17	53.70	50.53	54.00	-3.47	Average

Right Band edge_Vertical_Peak

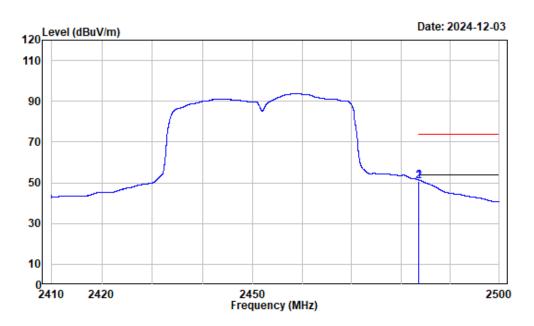


Condition : Vertical
Project No. : 2401Y97990E-RF
Tester : Zenos Qiao

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	-3.17	72.58	69.41	74.00	-4.59	Peak	
2	2485.272	-3.17	73.96	70.79	74.00	-3.21	Peak	

Right Band edge_Vertical_Average



Condition : Vertical

Project No. : 2401Y97990E-RF Tester : Zenos Qiao

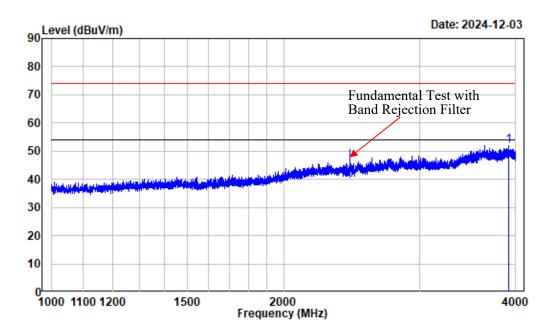
Spectrum setting: Average reading:RBW:1MHz VBW:10Hz Detector:Peak

	Freq	Factor			Limit Line		Remark	
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB		_
1	2483.500	-3.17	53.97	50.80	54.00	-3.20	Average	
2	2483.531	-3.17	54.09	50.92	54.00	-3.08	Average	

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

1-4GHz Horizontal

Report No.: 2401Y97990E-RFA



Condition : Horizontal
Project No. : 2401Y97990E-RF
Tester : Zenos Qiao

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

Note : 2.4GWiFi-b-2437

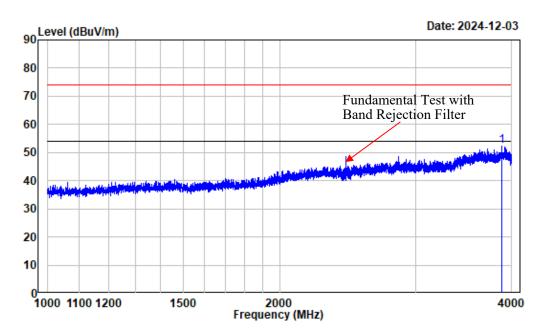
Read Limit Over
Freq Factor Level Level Line Limit Remark

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

1 3913.739 -0.43 52.39 51.96 74.00 -22.04 Peak

1-4GHz_Vertical

Report No.: 2401Y97990E-RFA



Condition : Vertical

Project No. : 2401Y97990E-RF Tester : Zenos Qiao

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

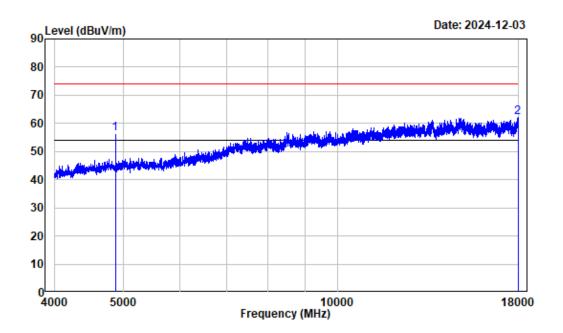
Note : 2.4GWiFi-b-2437

Read Limit Over
Freq Factor Level Level Line Limit Remark

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

4-18GHz_Horizontal_Peak

Report No.: 2401Y97990E-RFA



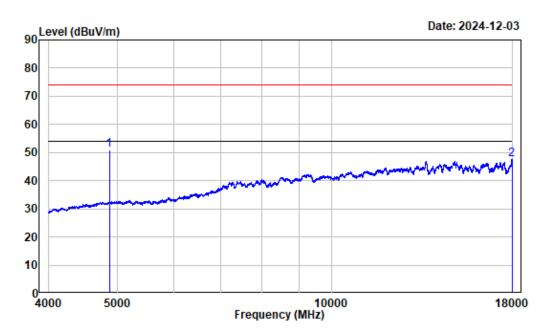
Condition : Horizontal
Project No. : 2401Y97990E-RF
Tester : Zenos Qiao

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	4874.000	2.56	53.70	56.26	74.00	-17.74	Peak
2	17956.240	24.31	37.80	62.11	74.00	-11.89	Peak

4-18GHz_Horizontal_Average

Report No.: 2401Y97990E-RFA



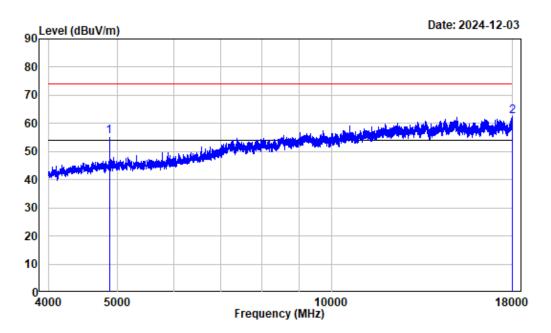
Condition : Horizontal
Project No. : 2401Y97990E-RF
Tester : Zenos Qiao

Spectrum setting: Average reading:RBW:1MHz VBW:5kHz Detector:Peak

	Freq	Factor			Limit Line		Remark	
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB		_
1	4874.000	2.56	48.43	50.99	54.00	-3.01	Average	
2	17956.240	24.31	23.36	47.67	54.00	-6.33	Average	

4-18GHz_Vertical_Peak

Report No.: 2401Y97990E-RFA



Condition : Vertical

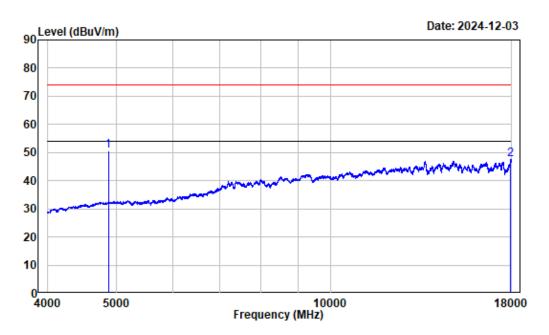
Project No. : 2401Y97990E-RF Tester : Zenos Qiao

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	4874.000	2.56	52.87	55.43	74.00	-18.57	Peak
2	17961.500	24.35	38.04	62.39	74.00	-11.61	Peak

4-18GHz_Vertical_Average

Report No.: 2401Y97990E-RFA



Condition : Vertical

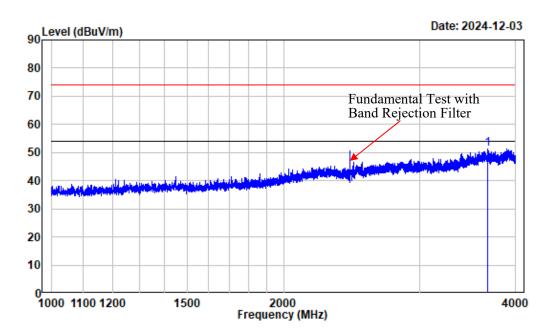
Project No. : 2401Y97990E-RF Tester : Zenos Qiao

Spectrum setting: Average reading:RBW:1MHz VBW:5kHz Detector:Peak

	Freq	Factor			Limit Line		Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	4874.000	2.56	47.99	50.55	54.00	-3.45	Average
2	17952.740	24.29	23.12	47.41	54.00	-6.59	Average

1-4GHz Horizontal

Report No.: 2401Y97990E-RFA



Condition : Horizontal
Project No. : 2401Y97990E-RF
Tester : Zenos Qiao

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

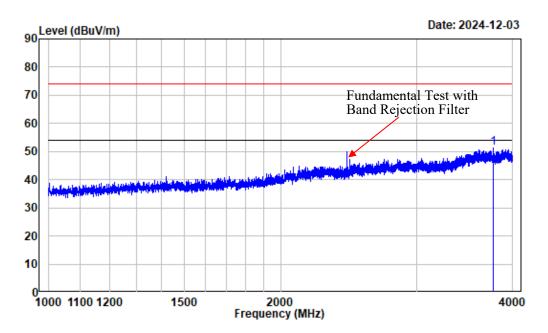
Note : 2.4GWiFi-g-2437

Read Limit Over
Freq Factor Level Level Line Limit Remark

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

1-4GHz_Vertical

Report No.: 2401Y97990E-RFA



Condition : Vertical

Project No. : 2401Y97990E-RF Tester : Zenos Qiao

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

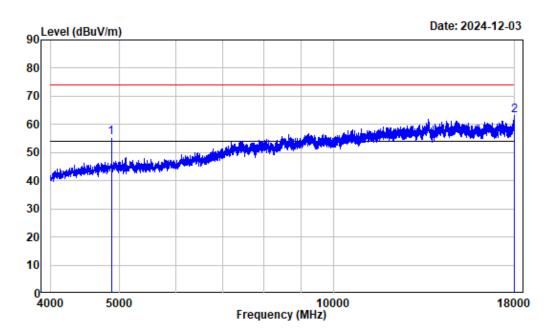
Note : 2.4GWiFi-g-2437

Read Limit Over
Freq Factor Level Level Line Limit Remark

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

4-18GHz_Horizontal_Peak

Report No.: 2401Y97990E-RFA



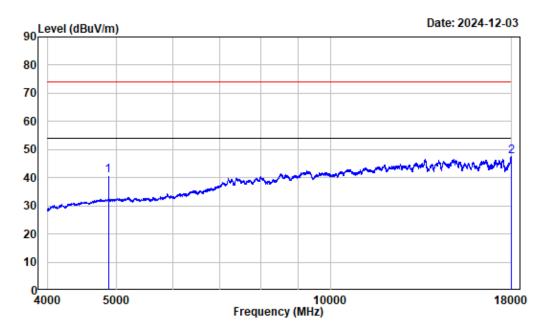
Condition : Horizontal
Project No. : 2401Y97990E-RF
Tester : Zenos Qiao

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	4874.000	2.56	52.74	55.30	74.00	-18.70	Peak
2	17968.500	24.40	38.71	63.11	74.00	-10.89	Peak

4-18GHz_Horizontal_Average

Report No.: 2401Y97990E-RFA



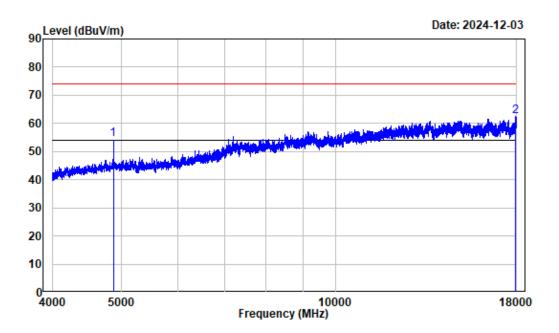
Condition : Horizontal
Project No. : 2401Y97990E-RF
Tester : Zenos Qiao

Spectrum setting: Average reading:RBW:1MHz VBW:5kHz Detector:Peak

	Freq	Factor			Limit Line		Remark	
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB		_
1	4874.000	2.56	38.11	40.67	54.00	-13.33	Average	
2	17959.740	24.34	23.14	47.48	54.00	-6.52	Average	

4-18GHz_Vertical_Peak

Report No.: 2401Y97990E-RFA



Condition : Vertical

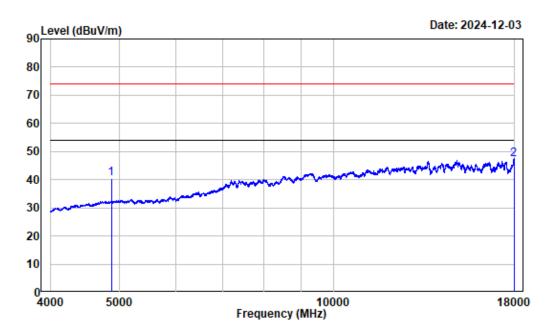
Project No. : 2401Y97990E-RF Tester : Zenos Qiao

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	4874.000	2.56	51.93	54.49	74.00	-19.51	Peak
2	17947.490	24.24	38.38	62.62	74.00	-11.38	Peak

4-18GHz_Vertical_Average

Report No.: 2401Y97990E-RFA



Condition : Vertical

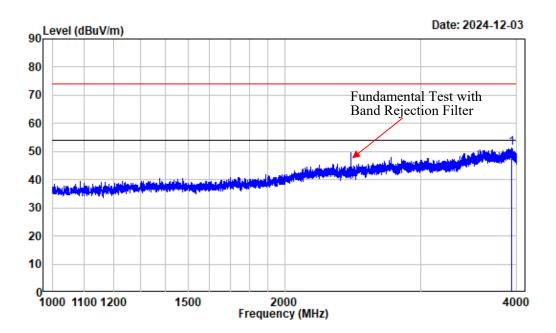
Project No. : 2401Y97990E-RF Tester : Zenos Qiao

Spectrum setting: Average reading:RBW:1MHz VBW:5kHz Detector:Peak

	Freq	Factor			Limit Line		Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	4874.000	2.56	37.82	40.38	54.00	-13.62	Average
2	17956.240	24.31	23.06	47.37	54.00	-6.63	Average

1-4GHz Horizontal

Report No.: 2401Y97990E-RFA



Condition : Horizontal
Project No. : 2401Y97990E-RF
Tester : Zenos Qiao

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

Note : 2.4GWiFi-n20-2437

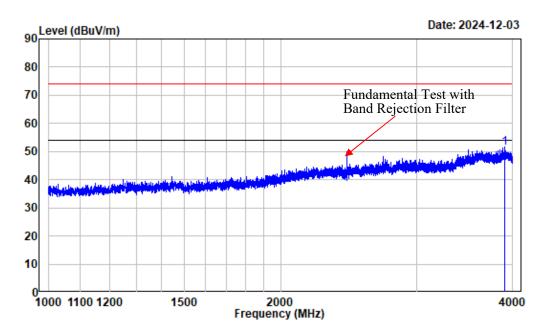
Read Limit Over
Freq Factor Level Level Line Limit Remark

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

1 3937.742 -0.25 51.48 51.23 74.00 -22.77 Peak

1-4GHz_Vertical

Report No.: 2401Y97990E-RFA



Condition : Vertical

Project No. : 2401Y97990E-RF Tester : Zenos Qiao

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

Note : 2.4GWiFi-n20-2437

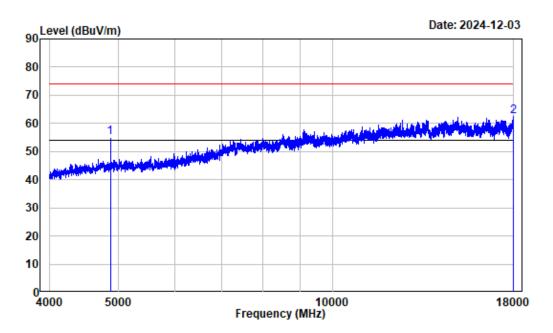
Read Limit Over
Freq Factor Level Level Line Limit Remark

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

1 3909.614 -0.46 51.91 51.45 74.00 -22.55 Peak

4-18GHz_Horizontal_Peak

Report No.: 2401Y97990E-RFA



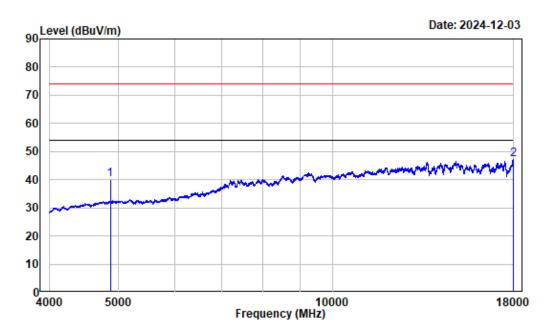
Condition : Horizontal
Project No. : 2401Y97990E-RF
Tester : Zenos Qiao

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	4874.000	2.56	52.55	55.11	74.00	-18.89	Peak
2	17968.500	24.40	37.93	62.33	74.00	-11.67	Peak

4-18GHz_Horizontal_Average

Report No.: 2401Y97990E-RFA



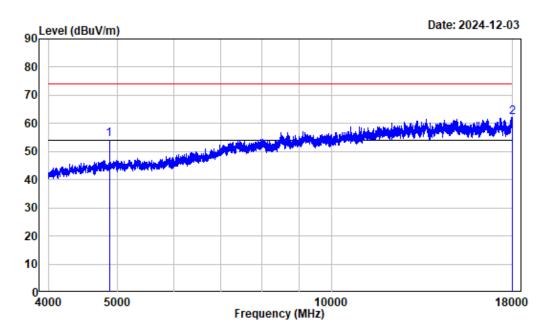
Condition : Horizontal
Project No. : 2401Y97990E-RF
Tester : Zenos Qiao

Spectrum setting: Average reading:RBW:1MHz VBW:5kHz Detector:Peak

	Freq	Factor			Limit Line		Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	4874.000	2.56	37.36	39.92	54.00	-14.08	Average
2	17959.740	24.34	22.98	47.32	54.00	-6.68	Average

4-18GHz_Vertical_Peak

Report No.: 2401Y97990E-RFA



Condition : Vertical

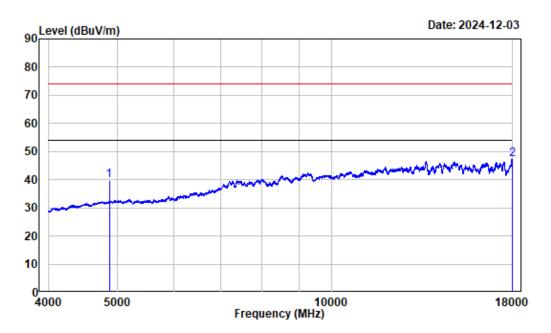
Project No. : 2401Y97990E-RF Tester : Zenos Qiao

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	4874.000	2.56	51.81	54.37	74.00	-19.63	Peak
2	17966.750	24.39	37.87	62.26	74.00	-11.74	Peak

4-18GHz_Vertical_Average

Report No.: 2401Y97990E-RFA



Condition : Vertical

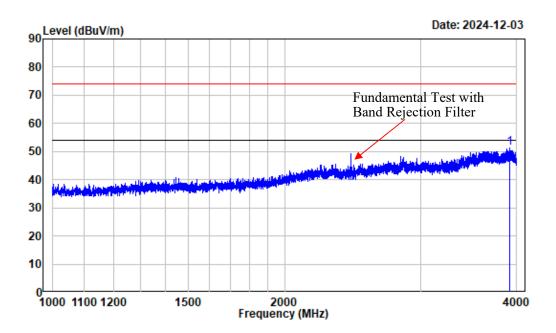
Project No. : 2401Y97990E-RF Tester : Zenos Qiao

Spectrum setting: Average reading:RBW:1MHz VBW:5kHz Detector:Peak

	Freq	Factor			Limit Line		Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	4874.000	2.56	37.07	39.63	54.00	-14.37	Average
2	17959.740	24.34	22.86	47.20	54.00	-6.80	Average

1-4GHz Horizontal

Report No.: 2401Y97990E-RFA



Condition : Horizontal
Project No. : 2401Y97990E-RF
Tester : Zenos Qiao

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

Note : 2.4GWiFi-n40-2437

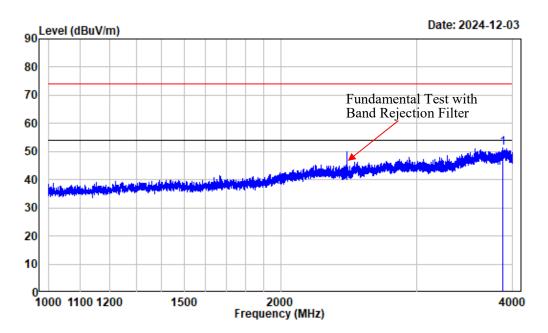
Read Limit Over
Freq Factor Level Level Line Limit Remark

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

1 3916.740 -0.40 51.80 51.40 74.00 -22.60 Peak

1-4GHz_Vertical

Report No.: 2401Y97990E-RFA



Condition : Vertical

Project No. : 2401Y97990E-RF Tester : Zenos Qiao

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

Note : 2.4GWiFi-n40-2437

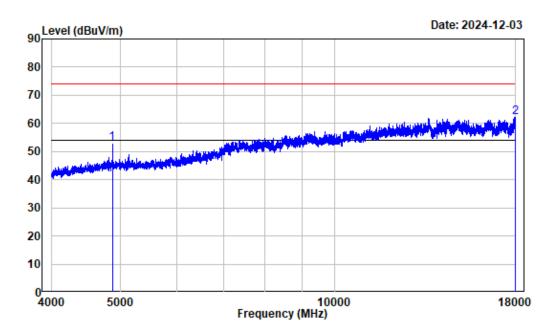
Read Limit Over
Freq Factor Level Level Line Limit Remark

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

1 3888.236 -0.59 51.76 51.17 74.00 -22.83 Peak

4-18GHz_Horizontal_Peak

Report No.: 2401Y97990E-RFA



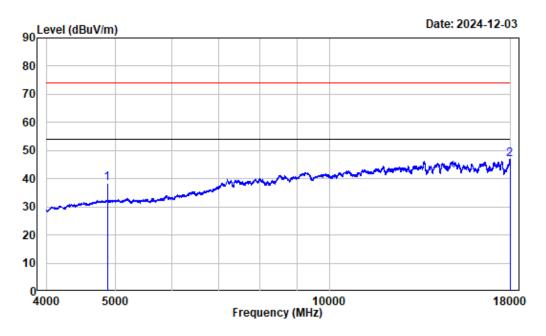
Condition : Horizontal
Project No. : 2401Y97990E-RF
Tester : Zenos Qiao

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	4874.000	2.56	50.44	53.00	74.00	-21.00	Peak
2	17965.000	24.37	37.69	62.06	74.00	-11.94	Peak

4-18GHz_Horizontal_Average

Report No.: 2401Y97990E-RFA



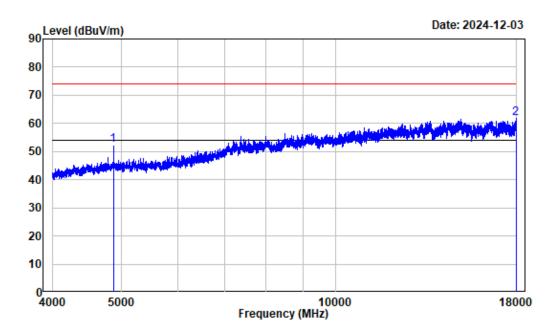
Condition : Horizontal
Project No. : 2401Y97990E-RF
Tester : Zenos Qiao

Spectrum setting: Average reading:RBW:1MHz VBW:5kHz Detector:Peak

	Freq	Factor			Limit Line		Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	4874.000	2.56	35.67	38.23	54.00	-15.77	Average
2	17956.240	24.31	22.68	46.99	54.00	-7.01	Average

4-18GHz_Vertical_Peak

Report No.: 2401Y97990E-RFA



Condition : Vertical

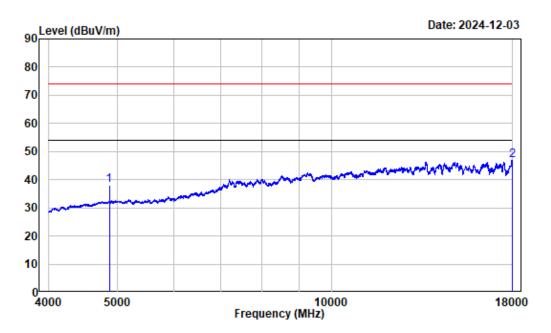
Project No. : 2401Y97990E-RF Tester : Zenos Qiao

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	4874.000	2.56	49.70	52.26	74.00	-21.74	Peak	
2	17956.240	24.31	37.37	61.68	74.00	-12.32	Peak	

4-18GHz_Vertical_Average

Report No.: 2401Y97990E-RFA



Condition : Vertical

Project No. : 2401Y97990E-RF Tester : Zenos Qiao

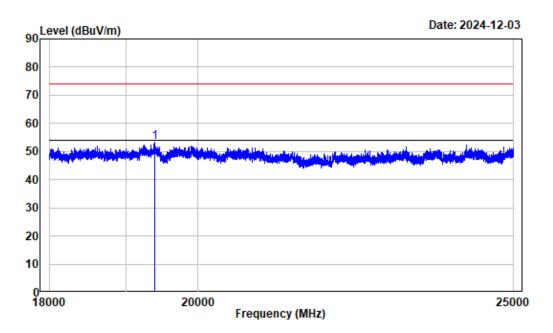
Spectrum setting: Average reading:RBW:1MHz VBW:5kHz Detector:Peak

	Freq	Factor			Limit Line		Remark	
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB		-
1	4874.000	2.56	35.32	37.88	54.00	-16.12	Average	
2	17959.740	24.34	22.47	46.81	54.00	-7.19	Average	

18-25GHz (only test with the worst harmonic margin):

18-25GHz_Horizontal

Report No.: 2401Y97990E-RFA



Condition : Horizontal
Project No. : 2401Y97990E-RF
Tester : Zenos Qiao

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

Note : 2.4GWiFi-b-2437

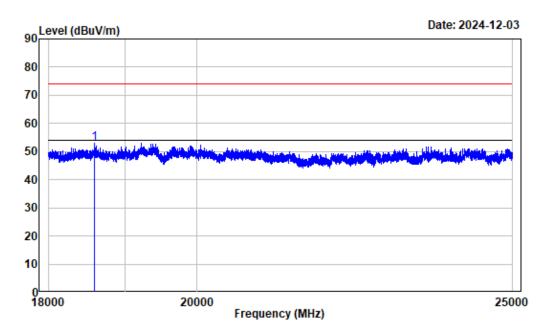
Read Limit Over
Freq Factor Level Level Line Limit Remark

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

1 19393.170 15.09 38.21 53.30 74.00 -20.70 Peak

18-25GHz_Vertical

Report No.: 2401Y97990E-RFA



Condition : Vertical

Project No. : 2401Y97990E-RF Tester : Zenos Qiao

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

Note : 2.4GWiFi-b-2437

Read Limit Over
Freq Factor Level Level Line Limit Remark

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

1 18592.450 14.61 38.24 52.85 74.00 -21.15 Peak

6dB Emission Bandwidth

Test Information:

Sample No.:	2U24-2	Test Date:	2024/11/18~2024/12/05
Test Site:	RF	Test Mode:	Transmitting
Tester:	Allen Bai	Test Result:	Pass

Report No.: 2401Y97990E-RFA

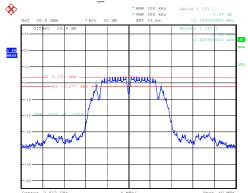
Environmental Conditions:

Temperatur	e: 22-26	Relative Humidity: (%)	43-48	ATM Pressure: (kPa)	101	
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Test Data:

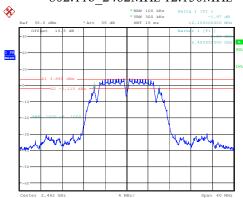
Mode	Test Frequency (MHz)	Result (MHz)	Limit (MHz)	Verdict
	2412	12.150	≥0.5	Pass
802.11b	2437	12.150	≥0.5	Pass
	2462	12.150	≥0.5	Pass
	2412	15.250	≥0.5	Pass
802.11g	2437	15.250	≥0.5	Pass
	2462	15.300	≥0.5	Pass
	2412	15.250	≥0.5	Pass
802.11n20	2437	15.250	≥0.5	Pass
	2462	15.300	≥0.5	Pass
	2422	35.400	≥0.5	Pass
802.11n40	2437	35.400	≥0.5	Pass
	2452	35.500	≥0.5	Pass

802.11b_2412MHz 12.150MHz



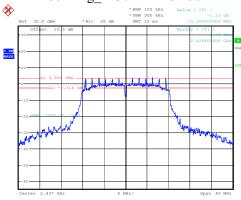
ProjectNo.:2401Y97990E-RF Tester:Allen Bai Date: 5.DEC.2024 20:55:15

802.11b 2462MHz 12.150MHz



ProjectNo.:2401Y97990E-RF Tester:Allen Bai Date: 5.DEC.2024 21:01:11

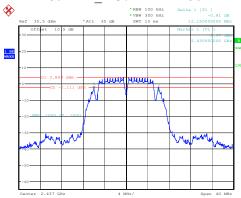
802.11g_2437MHz 15.250MHz



ProjectNo.:2401Y97990E-RF Tester:Allen Bai Date: 19.NOV.2024 23:35:52

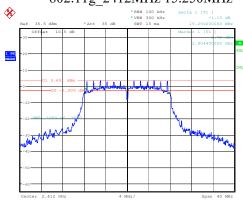
802.11b_2437MHz 12.150MHz

Report No.: 2401Y97990E-RFA



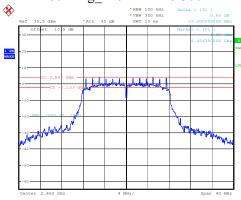
ProjectNo.:2401Y97990E-RF Tester:Allen Bai Date: 5.DEC.2024 20:56:34

802.11g 2412MHz 15.250MHz



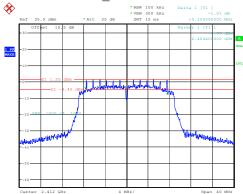
ProjectNo.:2401Y97990E-RF Tester:Allen Bai Date: 19.NOV.2024 23:34:32

802.11g_2462MHz 15.300MHz



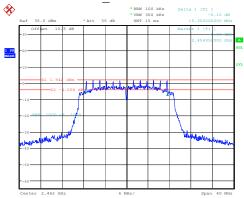
ProjectNo.:2401Y97990E-RF Tester:Allen Bai Date: 19.NOV.2024 23:37:38

802.11n20_2412MHz 15.250MHz



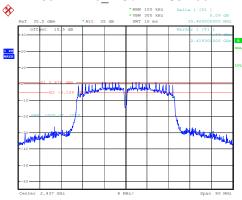
ProjectNo.:2401Y97990E-RF Tester:Allen Bai Date: 18.NOV.2024 22:56:30

$802.11n20_2462MHz\ 15.300MHz$



ProjectNo.:2401Y97990E-RF Tester:Allen Bai Date: 18.NOV.2024 22:48:42

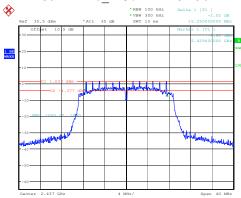
802.11n40 2437MHz 35.400MHz



ProjectNo.:2401Y97990E-RF Tester:Allen Bai Date: 19.NOV.2024 23:41:38

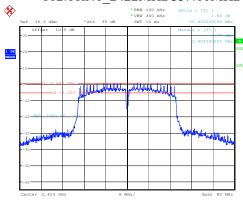
802.11n20 2437MHz 15.250MHz

Report No.: 2401Y97990E-RFA



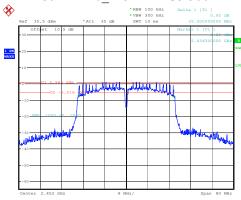
ProjectNo.:2401Y97990E-RF Tester:Allen Bai Date: 18.NOV.2024 22:32:07

802.11n40 2422MHz 35.400MHz



ProjectNo.:2401Y97990E-RF Tester:Allen Bai Date: 19.NOV.2024 23:38:55

802.11n40 2452MHz 35.500MHz



ProjectNo.:2401Y97990E-RF Tester:Allen Bai Date: 19.NOV.2024 23:42:58

99% Occupied Bandwidth

Test Information:

Sample No.:	2U24-2	Test Date:	2024/12/06
Test Site:	RF	Test Mode:	Transmitting
Tester:	Allen Bai	Test Result:	N/A

Report No.: 2401Y97990E-RFA

Environmental Conditions:

Temperature: (°C): Humidity: (%) ATM Pressure: (kPa)				46		101
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Test Data:

Mode	Test Frequency (MHz)	99% OBW (MHz)
	2412	13.200
802.11b	2437	13.160
	2462	13.160
	2412	16.480
802.11g	2437	16.400
	2462	16.480
	2412	17.560
802.11n20	2437	17.600
	2462	17.600
	2422	36.000
802.11n40	2437	36.000
	2452	36.000

802.11b 2412MHz 13.200MHz



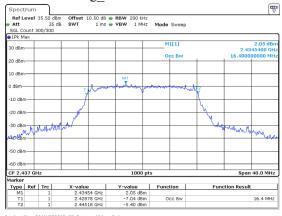
ProjectNo.:2401Y97990E=RF Tester:Allen Bai

802.11b 2462MHz 13.160MHz



ProjectNo.:2401Y97990E-RF Tester:Allen Bai

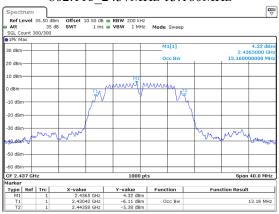
802.11g 2437MHz 16.400MHz



ProjectNo.:2401Y97990E-RF Tester:Allen Bai Date: 6.DEC.2024 00:27:21

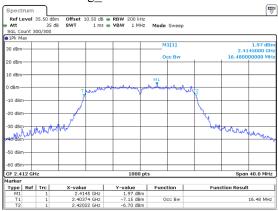
802.11b 2437MHz 13.160MHz

Report No.: 2401Y97990E-RFA



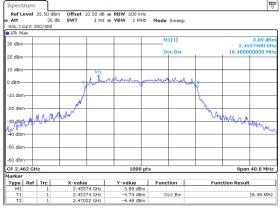
ProjectNo.:2401Y97990E-RF Tester:Allen Bai

802.11g 2412MHz 16.480MHz



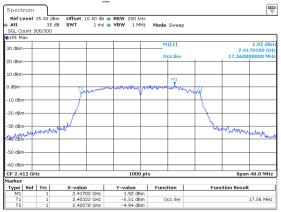
ProjectNo.:2401Y97990E-RF Tester:Allen Bai

802.11g 2462MHz 16.480MHz



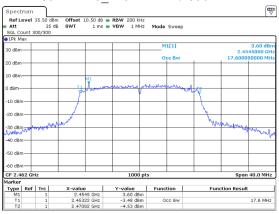
ProjectNo.:2401Y97990E-RF Tester:Allen Ba

802.11n20 2412MHz 17.560MHz



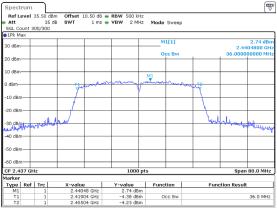
ProjectNo.:2401Y97990E-RF Tester:Allen Bai

802.11n20 2462MHz 17.600MHz



ProjectNo.:2401Y97990E-RF Tester:Allen Bai Date: 6.DEC.2024 00:32:41

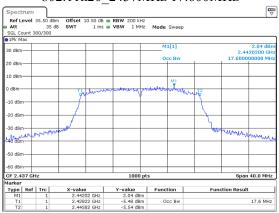
802.11n40 2437MHz 36MHz



ProjectNo.:2401Y97990E-RF Tester:Allen Bai

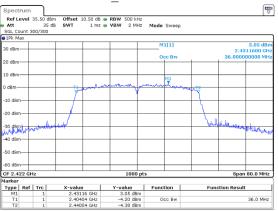
802.11n20 2437MHz 17.600MHz

Report No.: 2401Y97990E-RFA



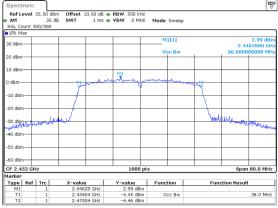
ProjectNo.:2401Y97990E-RF Tester:Allen Bai

802.11n40 2422MHz 36MHz



ProjectNo.:2401Y97990E-RF Tester:Allen Bai

802.11n40 2452MHz 36MHz



ProjectNo.:2401Y97990E-RF Tester:Allen Bai

Maximum Conducted Output Power

Test Information:

Sample No.:	2U24-2	Test Date:	2024/11/20~2024/12/06
Test Site:	RF	Test Mode:	Transmitting
Tester:	Allen Bai	Test Result:	Pass

Report No.: 2401Y97990E-RFA

Environmental Conditions:

Temperature:		Relative		ATM Pressure:	
(°C):	22-26	Humidity:	43-48	(kPa)	101
` '		(%)		· /	

Test Data:

Mode	Test Frequency (MHz)	Average Output Power(dBm)	Peak Output Power(dBm)	Limit (dBm)	ERIP (dBm)	ERIP Limit (dBm)	Verdict
	2412	13.94	16.89	30	19.99	36	Pass
802.11b	2437	13.93	16.91	30	20.01	36	Pass
	2462	14.00	16.94	30	20.04	36	Pass
	2412	12.09	19.42	30	22.52	36	Pass
802.11g	2437	12.19	19.48	30	22.58	36	Pass
	2462	12.28	19.53	30	22.63	36	Pass
	2412	12.02	19.39	30	22.49	36	Pass
802.11n20	2437	12.08	19.46	30	22.56	36	Pass
	2462	12.18	19.50	30	22.60	36	Pass
	2422	12.56	19.80	30	22.90	36	Pass
802.11n40	2437	12.58	19.79	30	22.89	36	Pass
	2452	12.62	19.84	30	22.94	36	Pass

Power Spectral Density

Test Information:

Sample No.:	2U24-2	Test Date:	2024/11/21~2024/12/06
Test Site:	RF	Test Mode:	Transmitting
Tester:	Allen Bai	Test Result:	Pass

Report No.: 2401Y97990E-RFA

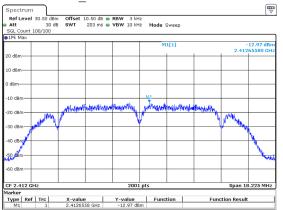
Environmental Conditions:

Temperature:		Relative		ATM Pressure:	
(°C):	22-26	Humidity:	43-48	(kPa)	101
` '		(%)		· /	

Test Data:

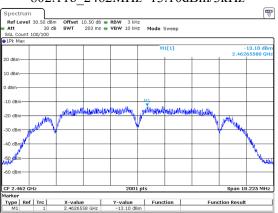
Mode	Test Frequency (MHz)	Result (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
	2412	-12.97	8	Pass
802.11b	2437	-13.27	8	Pass
	2462	-13.10	8	Pass
	2412	-14.23	8	Pass
802.11g	2437	-15.27	8	Pass
	2462	-13.84	8	Pass
	2412	-14.93	8	Pass
802.11n20	2437	-14.12	8	Pass
	2462	-14.83	8	Pass
	2422	-16.18	8	Pass
802.11n40	2437	-16.23	8	Pass
	2452	-16.39	8	Pass

802.11b 2412MHz -12.97dBm/3kHz



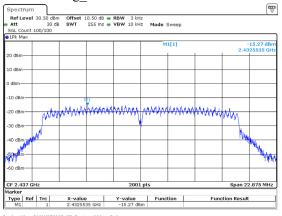
ProjectNo.:2401Y97990E-RF Tester:Allen Bai

802.11b 2462MHz -13.10dBm/3kHz



ProjectNo.:2401Y97990E-RF Tester:Allen Bai

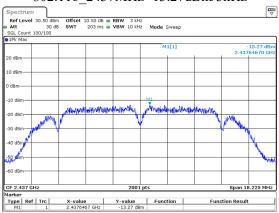
802.11g_2437MHz -15.27dBm/3kHz



ProjectNo.:2401Y97990E-RF Tester:Allen Bai Date: 21.NOV.2024 22:03:14

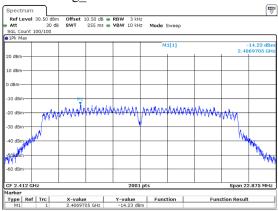
802.11b 2437MHz -13.27dBm/3kHz

Report No.: 2401Y97990E-RFA



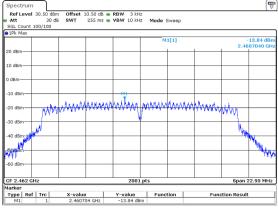
ProjectNo.:2401Y97990E-RF Tester:Allen Bai

802.11g 2412MHz -14.23dBm/3kHz



ProjectNo.:2401Y97990E-RF Tester:Allen Bai

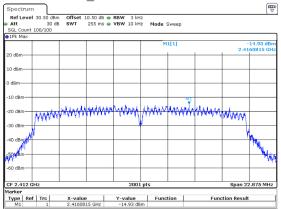
802.11g_2462MHz -13.84dBm/3kHz



ProjectNo.:2401Y97990E-RF Tester:Allen Bai

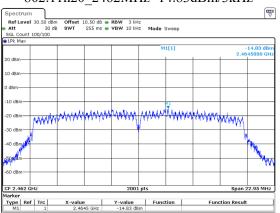
Date: 21.NOV.2024 22:04:26

802.11n20 2412MHz -14.93dBm/3kHz



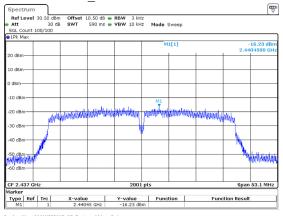
ProjectNo.:2401Y97990E-RF Tester:Allen Bai

802.11n20 2462MHz -14.83dBm/3kHz



ProjectNo.:2401Y97990E-RF Tester:Allen Bai

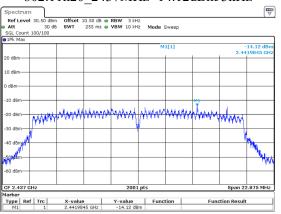
802.11n40 2437MHz -16.23dBm/3kHz



ProjectNo.:2401Y97990E-RF Tester:Allen Bai Date: 21.NOV.2024 22:13:16

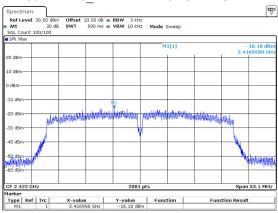
802.11n20 2437MHz -14.12dBm/3kHz

Report No.: 2401Y97990E-RFA



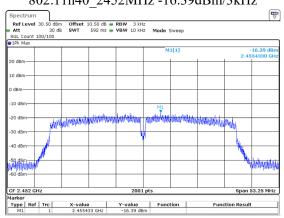
ProjectNo.:2401Y97990E-RF Tester:Allen Bai

802.11n40 2422MHz -16.18dBm/3kHz



ProjectNo.:2401Y97990E-RF Tester:Allen Bai

802.11n40 2452MHz -16.39dBm/3kHz



ProjectNo.:2401Y97990E-RF Tester:Allen Bai

Date: 21.NOV.2024 22:15:0

100 kHz Bandwidth of Frequency Band Edge

Test Information:

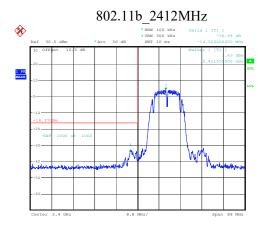
Sample No.:	2U24-2	Test Date:	2024/11/18~2024/12/05
Test Site:	RF	Test Mode:	Transmitting
Tester:	Allen Bai	Test Result:	Pass

Report No.: 2401Y97990E-RFA

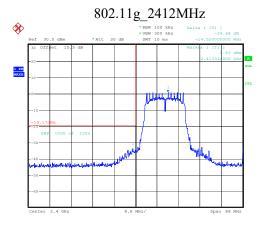
Environmental Conditions:

Temperature:		Relative		ATM Pressure:	
(°C):	22-26	Humidity:	43-48	(kPa)	101
` '		(%)		· /	

Test Data:



ProjectNo.:2401Y97990E-RF Tester:Allen Bai Date: 5.DEC.2024 21:04:32



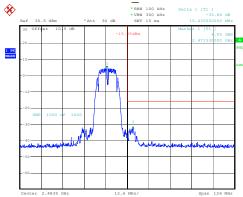
ProjectNo.:2401Y97990E-RF Tester:Allen Bai Date: 5.DEC.2024 21:09:00

 $802.11n20_2412MHz$

ProjectNo.:2401Y97990E-RF Tester:Allen Bai Date: 18.NOV.2024 22:57:35

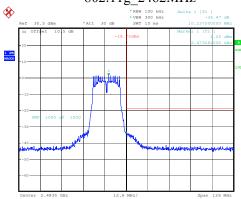
802.11b 2462MHz

Report No.: 2401Y97990E-RFA



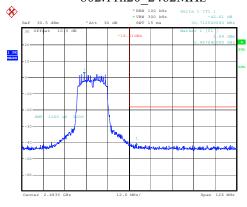
ProjectNo.:2401Y97990E-RF Tester:Allen Bai Date: 5.DEC.2024 21:05:50

802.11g_2462MHz



ProjectNo.:2401Y97990E-RF Tester:Allen Bai Date: 5.DEC.2024 21:13:09

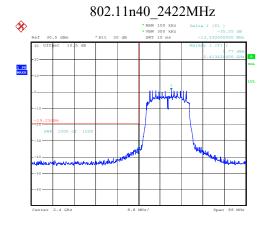
802.11n20_2462MHz

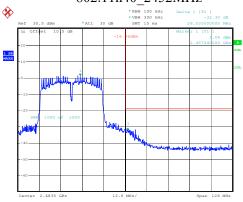


ProjectNo.:2401Y97990E-RF Tester:Allen Bai Date: 18.NOV.2024 22:49:52

802.11n40_2452MHz

Report No.: 2401Y97990E-RFA





ProjectNo.:2401Y97990E-RF Tester:Allen Bai Date: 5.DEC.2024 21:12:07 ProjectNo.:2401Y97990E-RF Tester:Allen Bai Date: 19.NOV.2024 23:44:46

Duty Cycle

Test Information:

Sample No.:	2U24-2	Test Date:	2024/11/18~2024/12/06
Test Site:	RF	Test Mode:	Transmitting
Tester:	Allen Bai	Test Result:	N/A

Report No.: 2401Y97990E-RFA

Environmental Conditions:

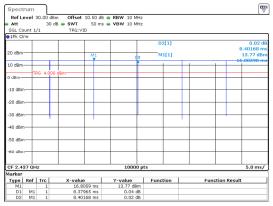
Temperature: (°C):	22-26	Relative Humidity:	43-48	ATM Pressure: (kPa)	101
(30):		(%)		(KFa)	

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	8.380	8.402	99.74	/	/	0.010
802.11g	2437	1.382	1.408	98.15	/	/	0.010
802.11n20	2437	5.028	5.110	98.40	/	/	0.010
802.11n40	2437	2.466	2.482	99.36	/	/	0.010

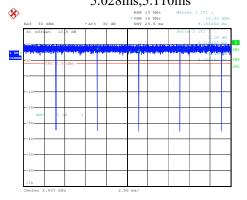
Duty Cycle = Ton/(Ton+Toff)*100%

802.11b_2437MHz 8.380ms,8.402ms



ProjectNo.:2401Y97990E-RF Tester:Allen Bai Date: 6.DEC.2024 00:14:31

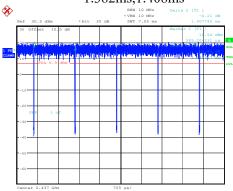
802.11n20_2437MHz 5.028ms,5.110ms



ProjectNo.:2401Y97990E-RF Tester:Allen Bai Date: 18.NOV.2024 22:18:16

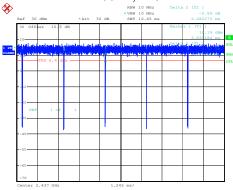
802.11g_2437MHz 1.382ms,1.408ms

Report No.: 2401Y97990E-RFA



ProjectNo.:2401Y97990E-RF Tester:Allen Bai Date: 19.NOV.2024 23:29:29

802.11n40_2437MHz 2.466ms,2.482ms



ProjectNo.:2401Y97990E-RF Tester:Allen Bai Date: 19.NOV.2024 23:31:53

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.: 2401Y97990E-RFA

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 [#]	EF	RP	Evaluation Distance	ERP Limit
	(NIIIZ)	power [#] (dBm)	(dBi)	(dBd)	(dBm)	(W)	(m)	(W)
Wi-Fi	2412-2462	20.0	3.1	0.95	20.95	0.124	0.2	0.768

Note:

- 1. The tune up conducted power and antenna gain was declared by the applicant.
- 2. The BLE and Wi-Fi cannot transmit at same time.

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

Result: Compliant

Field reference level exposure exemption limits

Applicable Standard

According to RSS-102 Issue 6§6.6:

Field reference level (FRL) exposure evaluation is required if the separation distance between the user and/or bystander and the device's radiating element is greater than 20 cm (i.e. mobile devices), except when the device operates as follows:

• below 20 MHz and the source-based, time-averaged maximum EIRP of the device is equal to or less than 1 W (adjusted for tune-up tolerance)

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- at or above 20 MHz and below 48 MHz and the source-based, time-averaged maximum EIRP of the device is equal to or less than $4.49/f^{0.5}$ W (adjusted for tune-up tolerance), where f is in MHz
- at or above 48 MHz and below 300 MHz and the source-based, time-averaged maximum EIRP of the device is equal to or less than 0.6 W (adjusted for tune-up tolerance)
- at or above 300 MHz and below 6 GHz and the source-based, time-averaged maximum EIRP of the device is equal to or less than $1.31 \times 10^{-2} f^{0.6834}$ W (adjusted for tune-up tolerance), where f is in MHz
- at or above 6 GHz and the source-based, time-averaged maximum EIRP of the device is equal to or less than 5 W (adjusted for tune-up tolerance) In these cases, the information contained in the RF exposure technical brief may be limited to information that demonstrates how the EIRP was derived.

Mode	Frequency (MHz)	Antenna Gain [#] (dBi)	Conducted output power [#] including Tune-up Tolerance	EII	RP	Exemption limits (W)	Exemption
			(dBm)	(dBm)	(W)		
2.4G Wi-Fi	2412-2462	3.1	20.0	23.10	0.204	2.68	Yes

Note:

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

Result: Compliant

^{1.} The antenna gain and Conducted output power including Tune-up Tolerance was declared and provided by the applicant

^{2.} The BLE and Wi-Fi cannot transmit at same time.

Bay Area Compliance Laboratories Corp. (Shenzhen)	Report No.: 2401Y97990E-RFA
EUT PHOTOGRAPHS	
Please refer to the attachment 2401Y97990E-RFA External ph	noto and 2401Y97990E-RFA Internal photo.
	•

Report No.: 2401Y97990E-RFA

TEST SETUP PHOTOGRAPHS

Please refer to the attachment 2401Y97990E-RFA Test Setup photo.

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