

TEST REPORT

Applicant Name: YEALINK(XIAMEN) NETWORK TECHNOLOGY CO.,LTD.
Address: No.666 Hu'an Rd. Huli District Xiamen City, Fujian, P.R. China
Report Number: 2501Q31691E-RFC
FCC ID: T2C-SV80
IC: 10741A-SV80

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: Video Conferencing Camera
Model No.: SmartVision 80
Multiple Model(s) No.: N/A
Trade Mark:



Date Received: 2025-02-18
Issue Date: 2025-05-21

Test Result:	Pass [▲]
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▲ In the configuration tested, the EUT complied with the standards above.

Prepared and Checked By:

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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	2501Q31691E-RFC	Original Report	2025-05-21

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

HVIN	SV80
FVIN	SV80
Frequency Range	2412~2462MHz
Maximum Conducted Output Peak Power	For module YL43752: 21.70dBm For module YL43456: 21.70dBm
Modulation Technique	DSSS, OFDM, OFDMA
Antenna Specification[#]	For module YL43752: 3.05dBi for ANT0, 3.37dBi for ANT1, For module YL43456: 0.62dBi for ANT2 (provided by the applicant)
Voltage Range	DC 48V from adapter or DC 54V from PoE
Sample serial number	2YH7-2 for Conducted and Radiated Emissions Test 2YH7-1 for RF Conducted Test (Assigned by BACL, Shenzhen)
Sample/EUT Status	Good condition
Adapter Information	Model: HKA06548014-7Y Input: AC 100-240V, 50/60Hz, 1.8A Output: DC 48.0V, 1.36A, 65.28W

Note: The EUT powered by adapter or POE, the worst case adapter power supply was selected to test for AC line conducted emission according to BLE report test result.

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 C63.10-2020, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices and RSS-GEN Issue 5, February 2021 Amendment 2 and RSS-247 Issue 3, August 2023.

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		109.2kHz(k=2, 95% level of confidence)
RF output power, conducted		0.86dB(k=2, 95% level of confidence)
Power Spectral Density		0.90dB(k=2, 95% level of confidence)
AC Power Lines Conducted Emissions	9kHz~150 kHz	3.63dB(k=2, 95% level of confidence)
	150 kHz ~30MHz	3.66dB(k=2, 95% level of confidence)
Radiated Emissions	0.009MHz~30MHz	3.60dB(k=2, 95% level of confidence)
	30MHz~200MHz (Horizontal)	5.32dB(k=2, 95% level of confidence)
	30MHz~200MHz (Vertical)	5.43dB(k=2, 95% level of confidence)
	200MHz~1000MHz (Horizontal)	5.77dB(k=2, 95% level of confidence)
	200MHz~1000MHz (Vertical)	5.73dB(k=2, 95% level of confidence)
	1GHz - 6GHz	5.34dB(k=2, 95% level of confidence)
	6GHz - 18GHz	5.40dB(k=2, 95% level of confidence)
	18GHz - 40GHz	5.64dB(k=2, 95% level of confidence)
Temperature		±1°C
Humidity		±1%
Supply voltages		±0.4%

Note: The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.

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	7	2442
2	2417	8	2447
3	2422	9	2452
4	2427	10	2457
5	2432	11	2462
6	2437	/	/

802.11b, 802.11g, 802.11n20 and 802.11ax20 mode was tested with Channel 1, 6 and 11.

802.11n40 and 802.11ax40 mode was tested with Channel 3, 6 and 9.

EUT Exercise Software

For module YL43752

Exercise Software [#]		AuthenticationTool.exe		
Mode	Data rate	Power Level [#]		
		Low Channel	Middle Channel	High Channel
802.11b	1Mbps	15	15	15
802.11g	6Mbps	15	15	15
802.11n20	MCS0	15	15	15
802.11ax20	MCS0	15	15	15

For module YL43456

Exercise Software [#]		AuthenticationTool.exe		
802.11b	1Mbps	18	18	18
802.11g	6Mbps	18	18	18
802.11n20	MCS0	18	18	18

Note:

1. The worst-case data rates are determined to be as follows for each mode based upon investigation by measuring the power and PSD across all data rates bandwidths, and modulations.
2. For 802.11b/g/n/ax modes, the device supports SISO only.
3. For 802.11 ax modes, the device not support partial RU mode.
4. For module YL43752, all the antenna ports have the same power level.

Special Accessories

No special accessory.

Equipment Modifications

No modification was made to the EUT tested.

Support Equipment List and Details

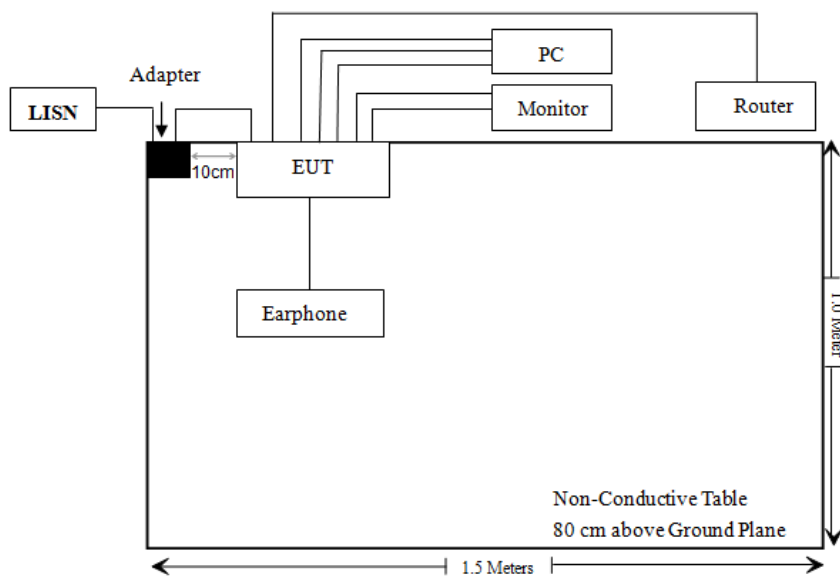
Manufacturer	Description	Model	Serial Number
HIKVISION	Router	DS-3WR03	10021642429
Redmi	Monitor	A22FAB	47366/206100029128
GREATWALL	PC	NF50AL	/
/	Earphone	/	/
GOSPEL	POE	G0720-480-050	200200019

External I/O Cable

Cable Description	Length (m)	From Port	To
Un-shielding Detachable AC Cable	1.5	Adapter	LISN/AC Mains/ Receptacle
Un-shielding Un-Detachable DC Cable	1.0	Adapter	EUT
Shielded Detachable HDMI Cable	2.0	EUT	PC
Shielded Detachable USB(A-B) Cable	2.0	EUT	PC
Shielded Detachable USB Cable	2.0	EUT	Monitor
Unshielded Detachable RJ45 Cable*2	2.0	EUT	Monitor & PC
Shielded Detachable RJ45 Cable	4.0	EUT	Router/POE
Unshielded Un-detachable Earphone Cable	1.0	EUT	Earphone

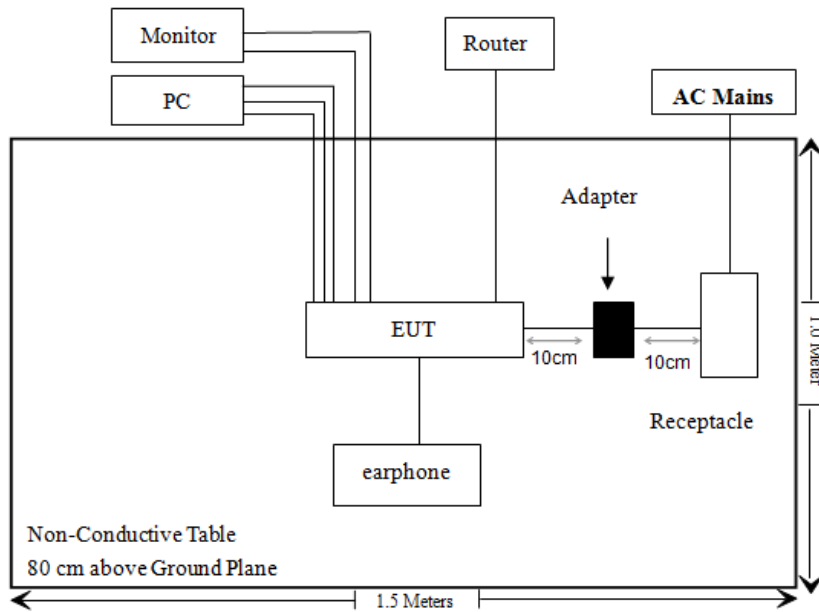
Block Diagram of Test Setup

For Conducted Emissions:

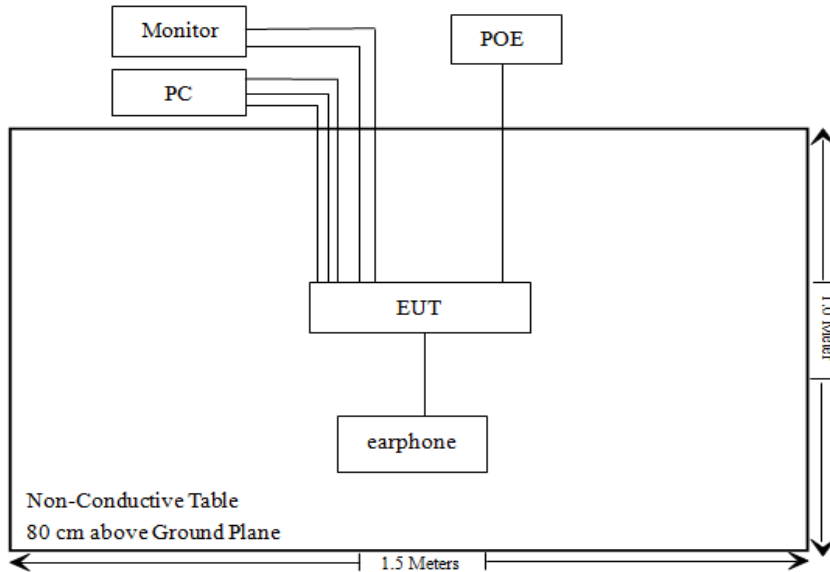


For Radiated Emissions below 1GHz:

Power by adapter



Power by POE



The diagram illustrates the experimental setup. A dashed rectangle represents the 'Non-Conductive Table' which is '150 cm above Ground Plane'. Inside this table is a box labeled 'EUT'. To the right of the EUT, an 'Adapter' is shown as a solid black square. A line connects the EUT to the Adapter. Another line connects the Adapter to a box labeled 'AC Mains' located at the top right. The overall setup is contained within a larger rectangle representing the 'Non-Conductive Table' which is '80 cm above Ground Plane'. The width of this larger table is indicated as '1.5 Meters' at the bottom. The height of the setup is indicated as '1.0 Meter' on the right side.

SUMMARY OF TEST RESULTS

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

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Conducted Emission Test					
Rohde & Schwarz	LISN	ENV216	101613	2024/12/04	2025/12/03
Rohde & Schwarz	EMI Test Receiver	ESCI	101120	2024/12/04	2025/12/03
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
Audix	EMI Test software	E3	191218(V9)	NCR	NCR
Radiated Emission Test_ Below 1GHz					
Rohde & Schwarz	EMI Test Receiver	ESR3	102455	2024/12/04	2025/12/03
Sonoma instrument	Pre-amplifier	310N	186238	2024/05/21	2025/05/20
Sunol Sciences	Broadband Antenna	JB1	A040904-1	2023/07/20	2026/07/19
Unknown	Cable	XH500C	J-10M-A	2024/06/18	2025/06/17
Unknown	Cable	Chamber Cable 1	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	2024/12/04	2025/12/03
Unknown	Cable	2Y194	0735	2024/12/04	2025/12/03
Audix	EMI Test software	E3	19821b(V9)	NCR	NCR
Radiated Emission Test_ Above 1GHz					
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(1201)	1143	2023/07/26	2026/07/25
Unknown	RF Cable	KMSE	0735	2024/12/06	2025/12/05
Unknown	RF Cable	UFA147	219661	2024/12/06	2025/12/05
Unknown	RF Cable	XH750A-N	J-10M	2024/12/06	2025/12/05
JD	Filter Switch Unit	DT7220FSU	DS79906	2024/09/09	2025/09/08
JD	Multiplex Switch Test Control Set	DT7220SCU	DS79903	2024/09/09	2025/09/08
A.H.System	Pre-amplifier	PAM-1840VH	190	2024/06/18	2025/06/17
Electro-Mechanics Co	Horn Antenna	3116	9510-2270	2023/09/18	2026/09/17
UTIFLEX	RF Cable	NO. 13	232308-001	2024/12/18	2025/12/17
Audix	EMI Test software	E3	191218(V9)	NCR	NCR

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
RF Conducted Test					
ANRITSU	Microwave peak power sensor	MA24418A	12622	2024/05/21	2025/05/20
Rohde & Schwarz	Spectrum Analyzer	FSV40	101473	2024/12/04	2025/12/03
Unknown	10dB Attenuator	Unknown	F-03-EM190	2024/06/27	2025/06/26

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

REQUIREMENTS AND TEST PROCEDURES

AC Line Conducted Emissions

Applicable Standard

FCC § 15.207 (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 μ H / 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.

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.

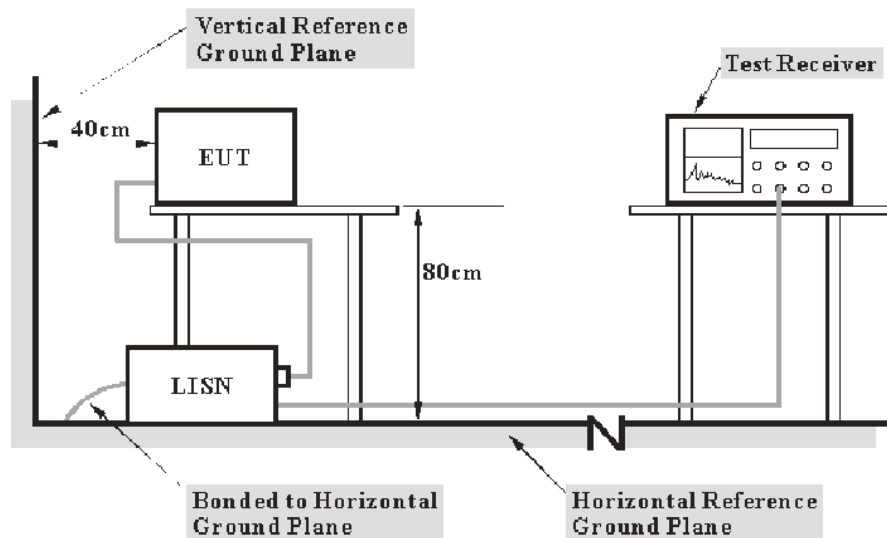
Table 4 - AC Power Lines Conducted Emission Limits		
Frequency range (MHz)	Conducted limit (dB μ V)	
	Quasi-Peak	Average
0.15 – 0.5	66 to 56 ¹	56 to 46 ¹
0.5 – 5	56	46
5 – 30	60	50

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:

- 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.
- 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



- Note: 1. Support units were connected to second LISN.
 2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

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

$$\text{Factor} = \text{LISN VDF} + \text{Cable Loss}$$

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:

$$\begin{aligned}\text{Over Limit} &= \text{level} - \text{Limit} \\ \text{Level} &= \text{reading level} + \text{Factor}\end{aligned}$$

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;

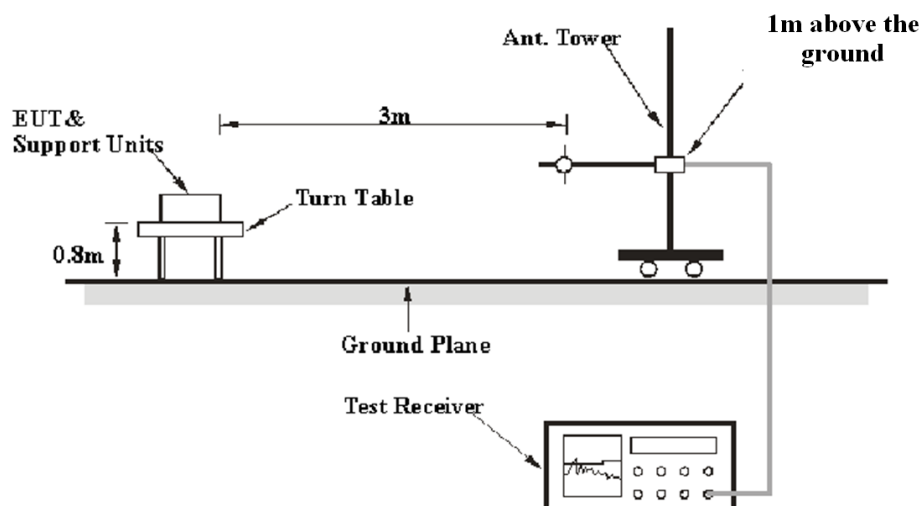
According to RSS-GEN § 8.10 & RSS-247 § 5.5

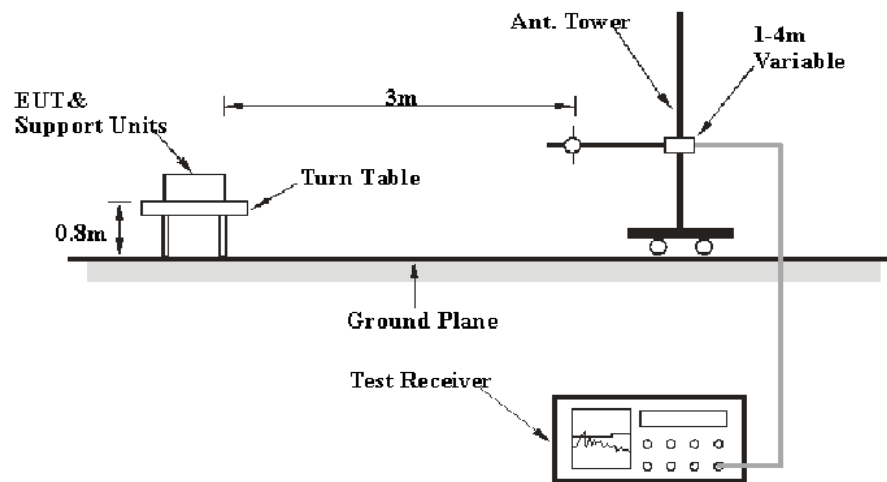
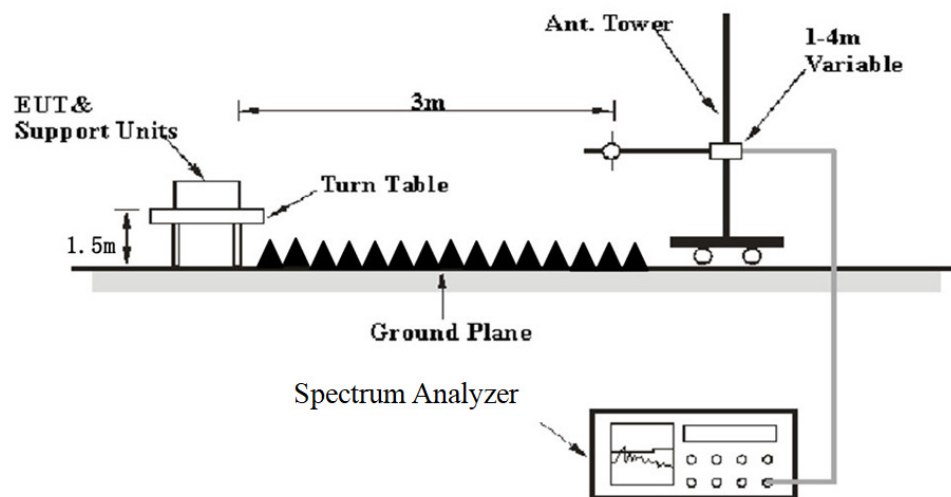
Restricted frequency bands, identified in table 7, are designated primarily for safety-of-life services (distress calling and certain aeronautical activities), certain satellite downlinks, radio astronomy and some government uses. Except where otherwise indicated, the following conditions related to 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.

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:**Above 1GHz:**

The radiated emission tests were performed in the 3 meters test site, using the setup accordance with the ANSI C63.10-2020 & 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:

9 kHz-1GHz:

Frequency Range	RBW	Video B/W	IF B/W	Measurement	Detector
9 kHz – 150 kHz	/	/	200 Hz	QP	QP
	300 Hz	1 kHz	/	PK	Peak
150 kHz – 30 MHz	/	/	9 kHz	QP	QP
	10 kHz	30 kHz	/	PK	Peak
30 MHz – 1000 MHz	/	/	120 kHz	QP	QP
	100 kHz	300 kHz	/	PK	Peak

1-25GHz:

Pre-scan

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

Final measurement for emission identified during pre-scan

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

Note: Ton is minimum transmission duration

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

Test Procedure

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

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

For 9 kHz-30MHz, the report shall list the six emissions with the smallest margin relative to the limit, for each of the three antenna orientations (parallel, perpendicular, and ground-parallel) unless the margin is greater than 20 dB.

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

Factor & Over Limit/Margin Calculation

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

$$\text{Factor} = \text{Antenna Factor} + \text{Cable Loss} - \text{Amplifier Gain}$$

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:

$$\begin{aligned}\text{Over Limit/Margin} &= \text{Level/Corrected Amplitude} - \text{Limit} \\ \text{Level / Corrected Amplitude} &= \text{Read Level} + \text{Factor}\end{aligned}$$

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.

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 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 in-band 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 C63.10-2020 Clause 11.8.1 & Clause 6.9.3

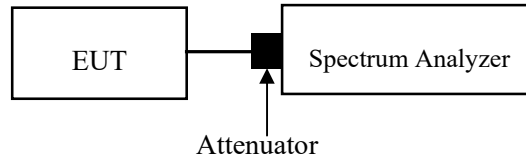
The steps for the first option are as follows:

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

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

- a) The instrument center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be between 1.5 times and 5.0 times the OBW.
- b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW, and VBW shall be at least three times the RBW, unless otherwise specified by the applicable requirement.
- c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than $[10 \log (\text{OBW}/\text{RBW})]$ below the reference level. Specific guidance is given in 4.1.6.2.
- d) Step a) through step c) might require iteration to adjust within the specified range.
- e) Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max-hold mode (until the trace stabilizes) shall be used.
- f) Use the 99% power bandwidth function of the instrument (if available) and report the measured bandwidth.
- g) If the instrument does not have a 99% power bandwidth function, then the trace data points are recovered and directly summed in linear power terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5% of the total is reached; that frequency is recorded as the upper frequency. The 99% power bandwidth is the difference between these two frequencies.

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



Maximum Conducted Output Power

Applicable Standard

According to FCC §15.247(b) (3), for systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, Compliant 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.

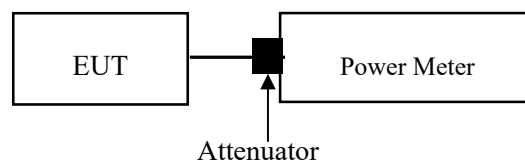
According to RSS-247§5.4 d) For DTSs employing digital modulation techniques operating in the bands 902-928 MHz and 2400-2483.5 MHz, the maximum peak conducted output power shall not exceed 1 W. The e.i.r.p. shall not exceed 4 W, except as provided in section 5.4(e).

As an alternative to a peak power measurement, Compliant 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 C63.10-2020 clause 11.9.1.2 for peak power method or clause 11.9.2.3.2 for average power method.

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



Note: A short RF cable with low cable loss connected to the EUT antenna port, which was provided by client or lab, the cable loss was added 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)).

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 C63.10-2020 Clause 11.11.3

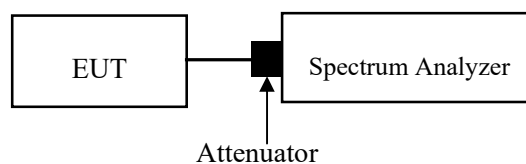
Establish an emission level by using the following procedure:

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

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

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

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



Power Spectral Density

Applicable Standard

According to FCC §15.247(e):

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.

According to RSS-247 §5.2 b):

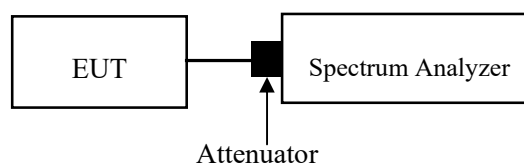
The transmitter power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of section 5.4(d), (i.e. the power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

Test Procedure

Test Method: ANSI C63.10-2020 Clause 11.10.2

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

1. Set analyzer center frequency to DTS channel center frequency
2. Set the span to 1.5 times the DTS bandwidth.
3. Set the RBW to: $3\text{kHz} \leq \text{RBW} \leq 100\text{ kHz}$.
4. Set the VBW $\geq 3 \times \text{RBW}$.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level within the RBW.
10. If measured value exceeds limit, reduce RBW (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 added with offset into test equipment, the total offset consists of attenuator and/or RF cable and/or power splitter loss

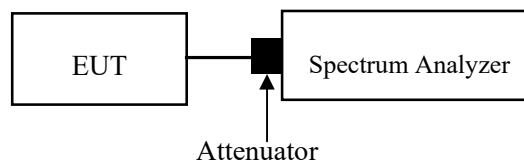
Duty Cycle

Test Procedure

According to ANSI C63.10-2020 Section 11.6

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

- a) A diode detector and an oscilloscope that together have a sufficiently short response time to permit accurate measurements of the ON and OFF times of the transmitted signal.
- b) The zero-span mode on a spectrum analyzer or EMI receiver if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the ON and OFF times of the transmitted signal:
 - 1) Set the center frequency of the instrument to the center frequency of the transmission.
 - 2) Set $RBW \geq OBW$ if possible; otherwise, set RBW to the largest available value.
 - 3) Set $VBW \geq RBW$. 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 $T \leq 16.7 \mu s$.)



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:

- 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 three internal antennas which were permanently attached, fulfill the requirement of this section. Please refer to the EUT photos.

ANT	Type	Antenna Gain [#]	Impedance	Frequency Range
For module YL43752				
ANT0	PCB	3.05dBi	50Ω	2.4~2.5GHz
ANT1	PCB	3.37dBi	50Ω	2.4~2.5GHz
For module YL43456				
ANT2	FPC	0.62dBi	50Ω	2.4~2.5GHz

Result: Compliant

TEST DATA AND RESULTS

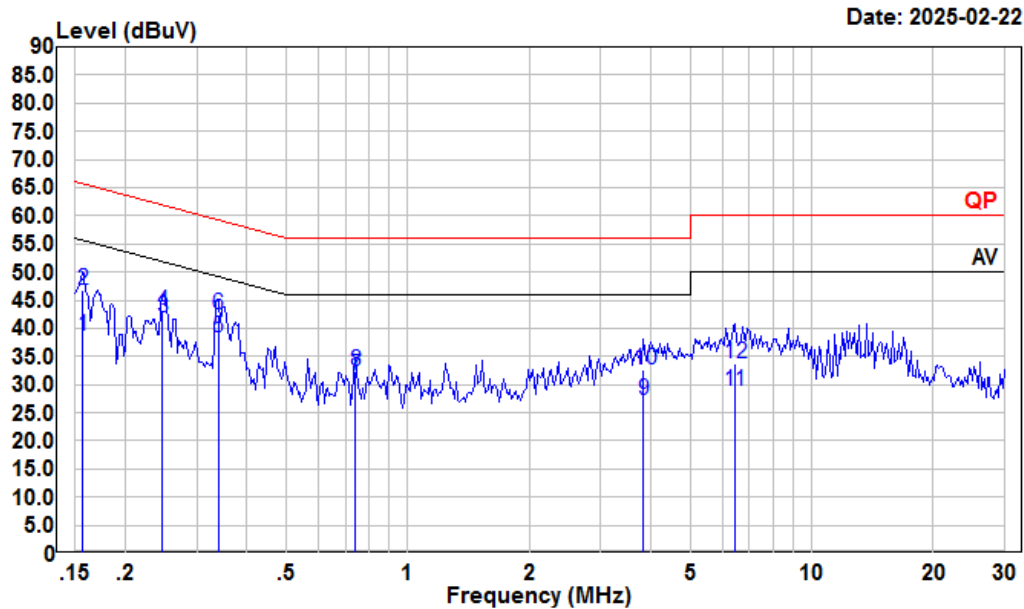
AC Line Conducted Emissions

Environmental Conditions

Temperature (°C)	22.5	Relative Humidity (%)	50
ATM Pressure (kPa)	101.6	Test engineer	Macy.shi
Test date	2025.2.22		
EUT operation mode	Transmitting		

For module: YL43752 (Maximum output power mode, ANT0 802.11ax20 Middle channel)

AC 120V 60 Hz, Line



Condition: Line

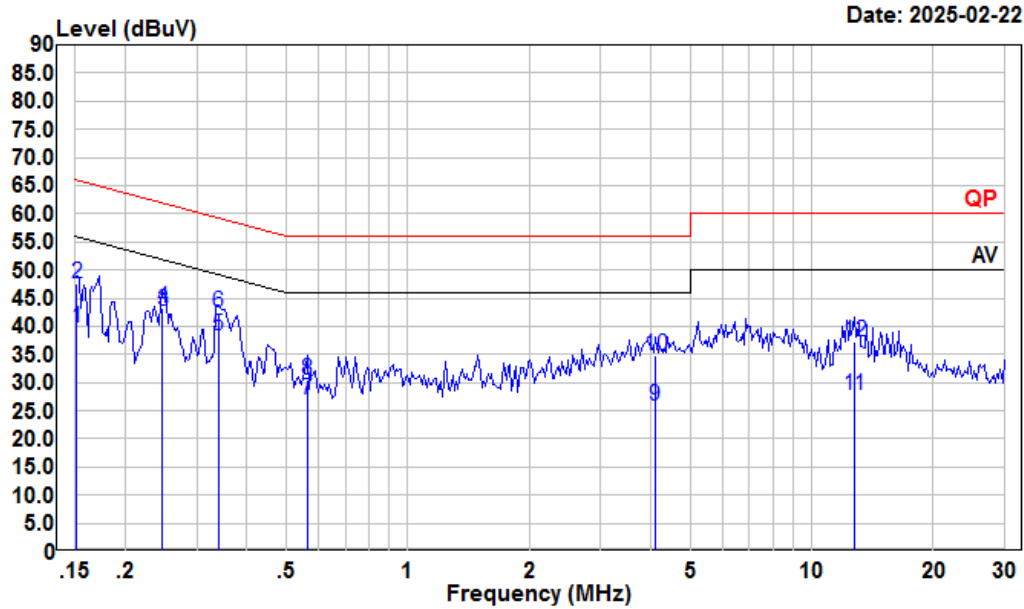
Project : 2501Q31691E-RF

tester : Macy.shi Note:Transmitting

Setting : RBW:9kHz

		Read		LISN	Cable	Limit	Over	
	Freq	Level	Level	Factor	Loss	Line	Limit	Remark
	MHz	dBuV	dBuV	dB	dB	dBuV	dB	
1	0.156	18.29	38.57	10.16	10.12	55.65	-17.08	Average
2	0.156	26.57	46.85	10.16	10.12	65.65	-18.80	QP
3	0.247	21.88	42.00	10.04	10.08	51.86	-9.86	Average
4	0.247	22.83	42.95	10.04	10.08	61.86	-18.91	QP
5	0.339	17.98	38.35	10.25	10.12	49.22	-10.87	Average
6	0.339	22.14	42.51	10.25	10.12	59.22	-16.71	QP
7	0.743	10.80	31.62	10.68	10.14	46.00	-14.38	Average
8	0.743	11.59	32.41	10.68	10.14	56.00	-23.59	QP
9	3.840	6.95	27.18	10.02	10.21	46.00	-18.82	Average
10	3.840	12.29	32.52	10.02	10.21	56.00	-23.48	QP
11	6.454	8.15	28.85	10.51	10.19	50.00	-21.15	Average
12	6.454	13.14	33.84	10.51	10.19	60.00	-26.16	QP

AC 120V 60 Hz, Neutral



Condition: Neutral

Project : 2501Q31691E-RF

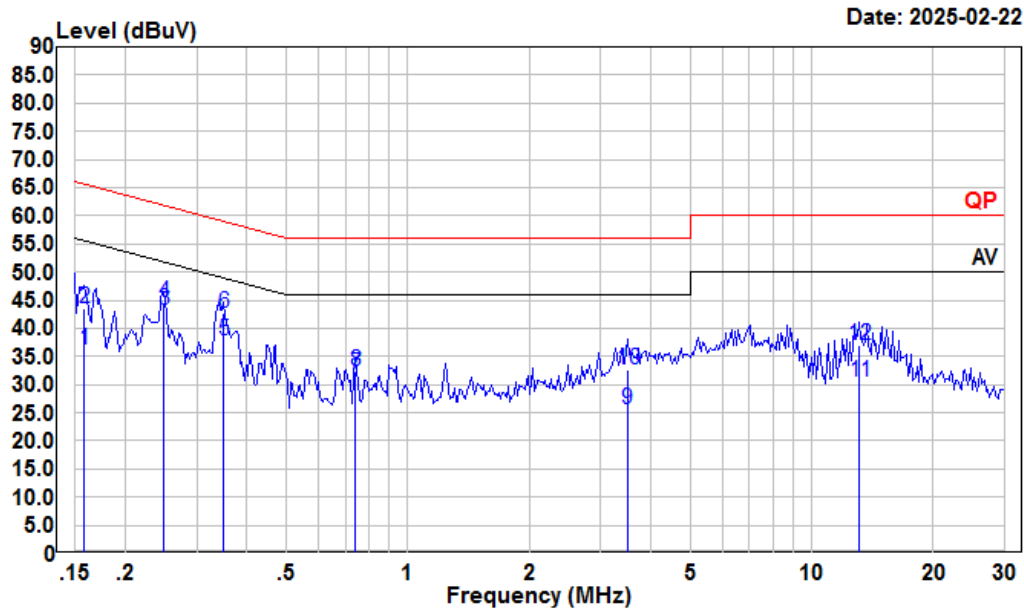
tester : Macy.shi Note:Transmitting

Setting : RBW:9kHz

	Freq	Read Level	LISN Level	Cable Factor	Cable Loss	Limit Line	Over Limit	Remark
	MHz	dBuV	dBuV	dB	dB	dBuV	dB	
1	0.152	19.24	39.66	10.29	10.13	55.91	-16.25	Average
2	0.152	27.30	47.72	10.29	10.13	65.91	-18.19	QP
3	0.247	22.28	42.57	10.21	10.08	51.86	-9.29	Average
4	0.247	23.03	43.32	10.21	10.08	61.86	-18.54	QP
5	0.339	17.94	38.45	10.39	10.12	49.22	-10.77	Average
6	0.339	22.01	42.52	10.39	10.12	59.22	-16.70	QP
7	0.564	6.23	26.92	10.56	10.13	46.00	-19.08	Average
8	0.564	9.67	30.36	10.56	10.13	56.00	-25.64	QP
9	4.092	5.52	25.85	10.12	10.21	46.00	-20.15	Average
10	4.092	14.59	34.92	10.12	10.21	56.00	-21.08	QP
11	12.716	7.18	27.62	10.22	10.22	50.00	-22.38	Average
12	12.716	16.80	37.24	10.22	10.22	60.00	-22.76	QP

For module YL43456 (Maximum output power mode, 802.11g Low channel)

AC 120V 60 Hz, Line



Condition: Line

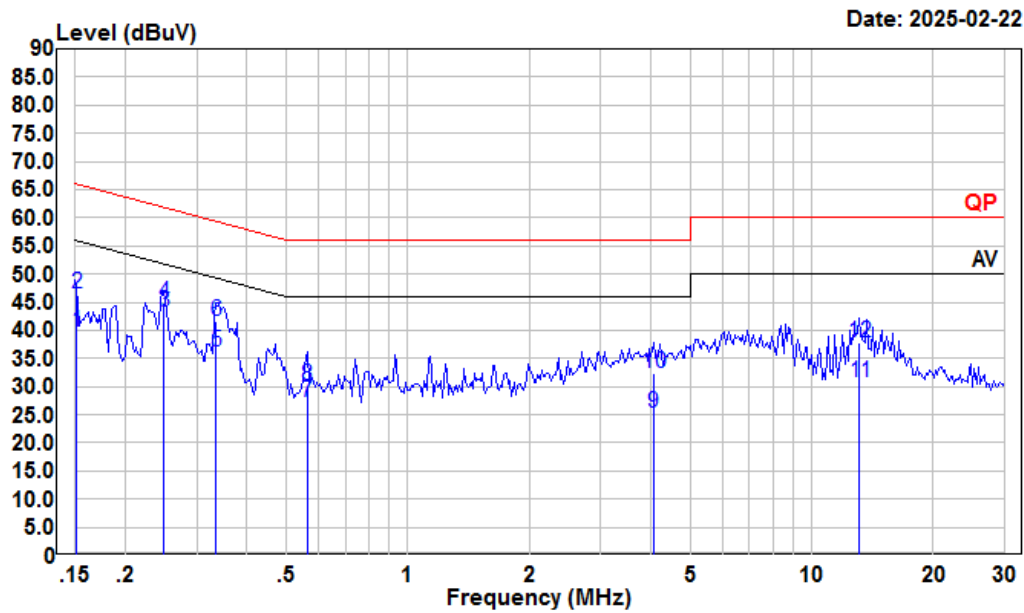
Project : 2501Q31691E-RF

tester : Macy.shi Note:Transmitting

Setting : RBW:9kHz

	Freq	Read Level	LISN Level	LISN Factor	Cable Loss	Limit Line	Over Limit	Remark
	MHz	dBuV	dBuV	dB	dB	dBuV	dB	
1	0.158	15.84	36.10	10.14	10.12	55.56	-19.46	Average
2	0.158	23.17	43.43	10.14	10.12	65.56	-22.13	QP
3	0.249	23.11	43.23	10.04	10.08	51.78	-8.55	Average
4	0.249	24.54	44.66	10.04	10.08	61.78	-17.12	QP
5	0.350	17.54	37.93	10.27	10.12	48.96	-11.03	Average
6	0.350	22.29	42.68	10.27	10.12	58.96	-16.28	QP
7	0.743	10.92	31.74	10.68	10.14	46.00	-14.26	Average
8	0.743	11.50	32.32	10.68	10.14	56.00	-23.68	QP
9	3.491	5.44	25.69	10.06	10.19	46.00	-20.31	Average
10	3.491	12.52	32.77	10.06	10.19	56.00	-23.23	QP
11	13.127	9.96	30.41	10.23	10.22	50.00	-19.59	Average
12	13.127	16.63	37.08	10.23	10.22	60.00	-22.92	QP

AC 120V 60 Hz, Neutral



Condition: Neutral

Project : 2501Q31691E-RF

tester : Macy.shi Note:Transmitting

Setting : RBW:9kHz

	Freq	Read Level	LISN Level	Cable Factor	Cable Loss	Limit Line	Over Limit	Remark
	MHz	dBuV	dBuV	dB	dB	dBuV	dB	
1	0.152	19.42	39.84	10.29	10.13	55.91	-16.07	Average
2	0.152	26.17	46.59	10.29	10.13	65.91	-19.32	QP
3	0.249	23.02	43.32	10.22	10.08	51.78	-8.46	Average
4	0.249	24.62	44.92	10.22	10.08	61.78	-16.86	QP
5	0.336	15.63	36.13	10.38	10.12	49.31	-13.18	Average
6	0.336	21.03	41.53	10.38	10.12	59.31	-17.78	QP
7	0.564	6.40	27.09	10.56	10.13	46.00	-18.91	Average
8	0.564	9.62	30.31	10.56	10.13	56.00	-25.69	QP
9	4.049	4.99	25.31	10.11	10.21	46.00	-20.69	Average
10	4.049	12.12	32.44	10.11	10.21	56.00	-23.56	QP
11	13.127	10.21	30.63	10.20	10.22	50.00	-19.37	Average
12	13.127	17.33	37.75	10.20	10.22	60.00	-22.25	QP

Spurious Emissions**Environmental Conditions**

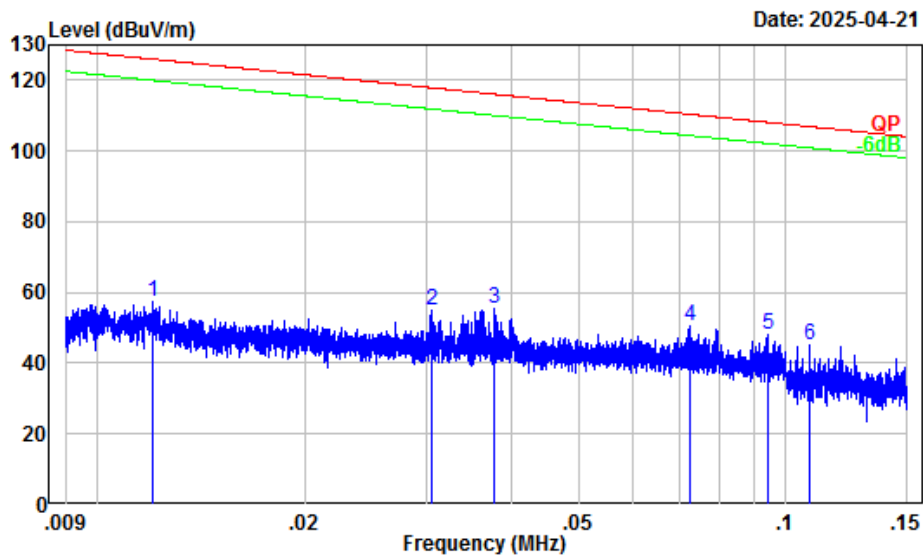
Temperature (°C)	22.8~25.3	Relative Humidity (%)	43.2~47
ATM Pressure (kPa):	100.2~101.1	Test engineer:	Alex.Yan&Visen.Wu&Anson Su
Test date:	Below 1GHz: 2025.4.21~2025.05.15 Above 1GHz: 2025.2.26		
EUT operation mode:	Below 1GHz: Transmitting Above 1GHz: Transmitting		
Note:	1. For the radiated spurious emission below 30MHz, only the worst case (parallel) was recorded. 2. When the test result of peak was less than the limit of QP/Average more than 6dB, just peak value were recorded. 3. The spurious emission from 9 kHz-30MHz of IC RSS-GEN standard, the unit of final result on the test plots are dBμV/m, so the limit should be added by 51,5 dB from dBμA/m to dBμV/m.		

Below 1GHz:

For module YL43752:

ANT0 (Maximum output power mode, 802.11ax20 Middle channel)

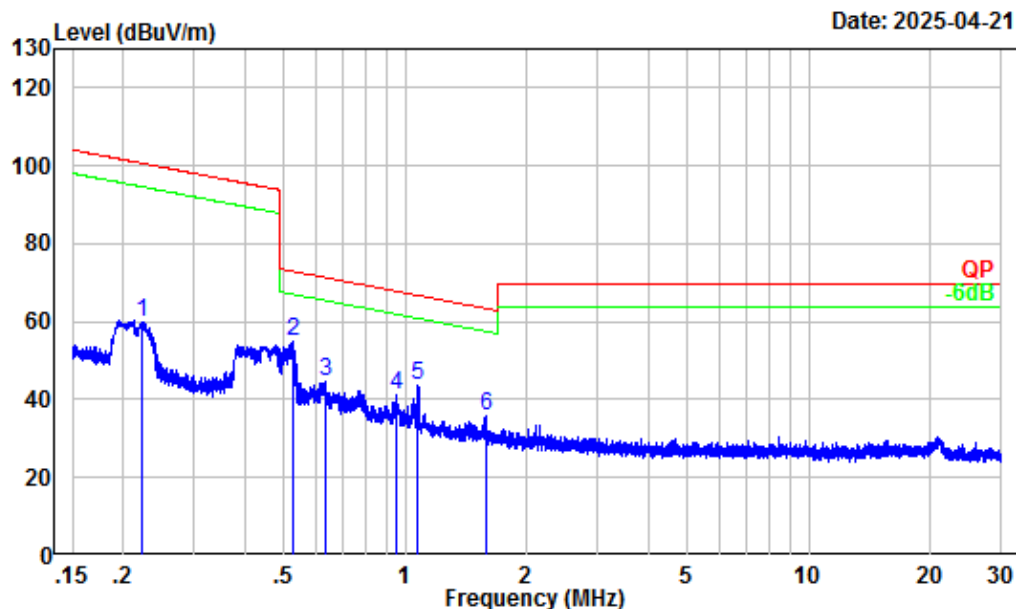
9kHz-150kHz



Site : Chamber A
Condition : 3m
Project Number : 2501Q31691E-RF
Test Mode : 2.4G WIFI Transmitting
Detector: Peak RBW/VBW: 0.3/1kHz
Tester : Alex Yan

	Freq	Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.01	31.91	25.56	57.47	125.99	-68.52	Peak
2	0.03	28.44	26.28	54.72	117.90	-63.18	Peak
3	0.04	27.69	27.93	55.62	116.08	-60.46	Peak
4	0.07	24.15	26.53	50.68	110.40	-59.72	Peak
5	0.09	22.42	25.67	48.09	108.14	-60.05	Peak
6	0.11	21.52	23.78	45.30	106.93	-61.63	Peak

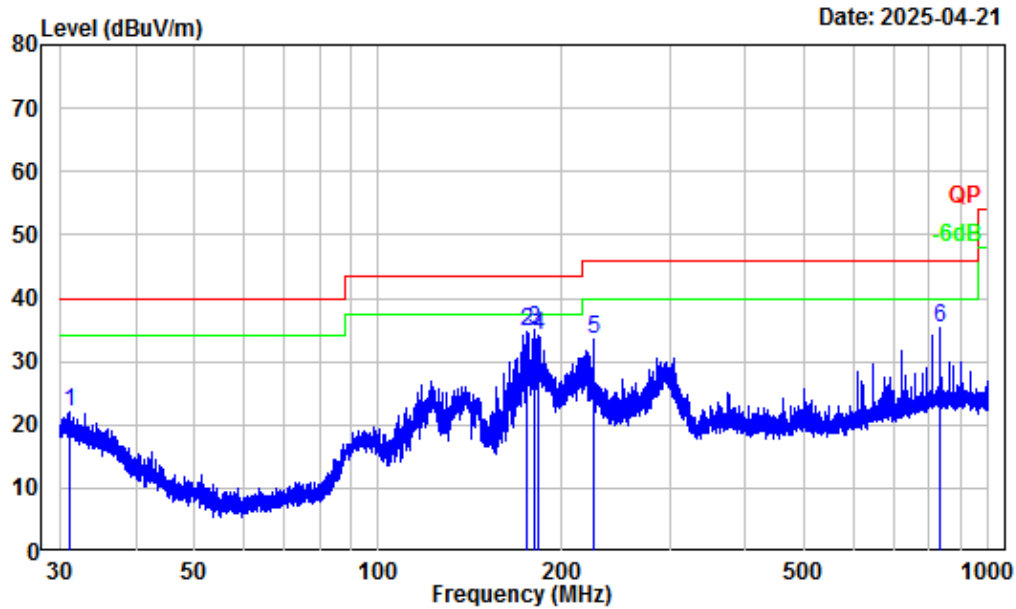
150kHz-30MHz



Site : Chamber A
 Condition : 3m
 Project Number : 2501Q31691E-RF
 Test Mode : 2.4G WIFI Transmitting
 Detector: Peak RBW/VBW: 10/30kHz
 Tester : Alex Yan

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.22	14.78	45.19	59.97	100.67	-40.70	Peak
2	0.53	6.08	48.79	54.87	73.17	-18.30	Peak
3	0.63	4.75	40.08	44.83	71.52	-26.69	Peak
4	0.95	1.59	39.59	41.18	67.95	-26.77	Peak
5	1.08	0.99	42.72	43.71	66.82	-23.11	Peak
6	1.58	-0.44	36.28	35.84	63.39	-27.55	Peak

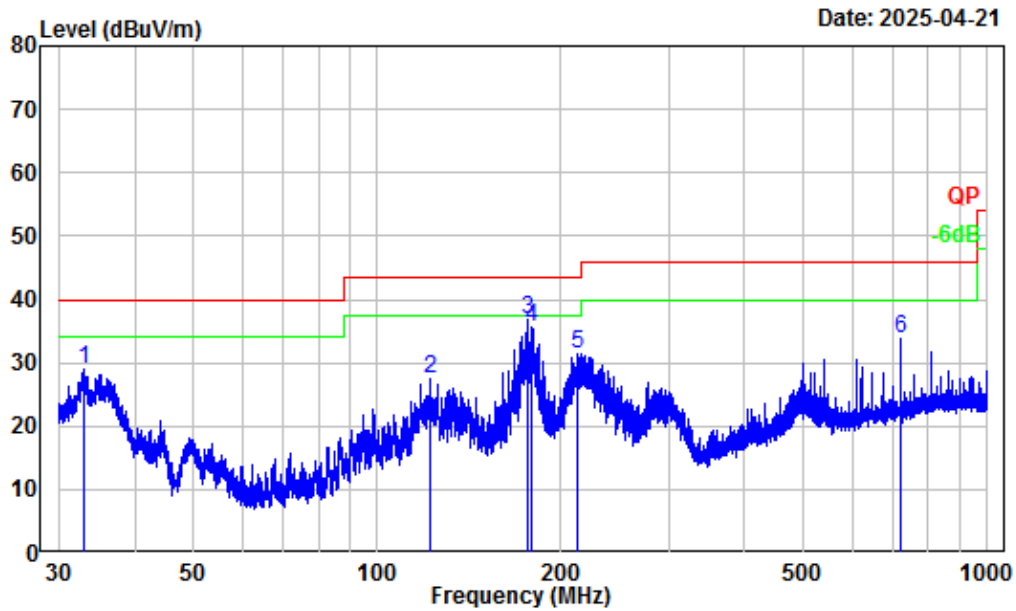
30MHz-1GHz_Horizontal



Site : Chamber A
Condition : 3m Horizontal
Project Number : 2501Q31691E-RF
Test Mode : 2.4G WIFI Transmitting
Detector: Peak RBW/VBW: 100/300kHz
Tester : Alex Yan

	Freq Factor		Read	Limit	Over	Remark
	MHz	dB/m	Level	Line	Limit	
			dBuV	dBuV/m	dBuV/m	dB
1	31.08	-6.52	28.58	22.06	40.00	-17.94 Peak
2	175.57	-13.43	48.10	34.67	43.50	-8.83 Peak
3	179.94	-13.65	48.64	34.99	43.50	-8.51 Peak
4	183.28	-13.90	48.01	34.11	43.50	-9.39 Peak
5	225.01	-14.07	47.60	33.53	46.00	-12.47 Peak
6	833.68	-1.86	37.10	35.24	46.00	-10.76 Peak

30MHz-1GHz_Vertical

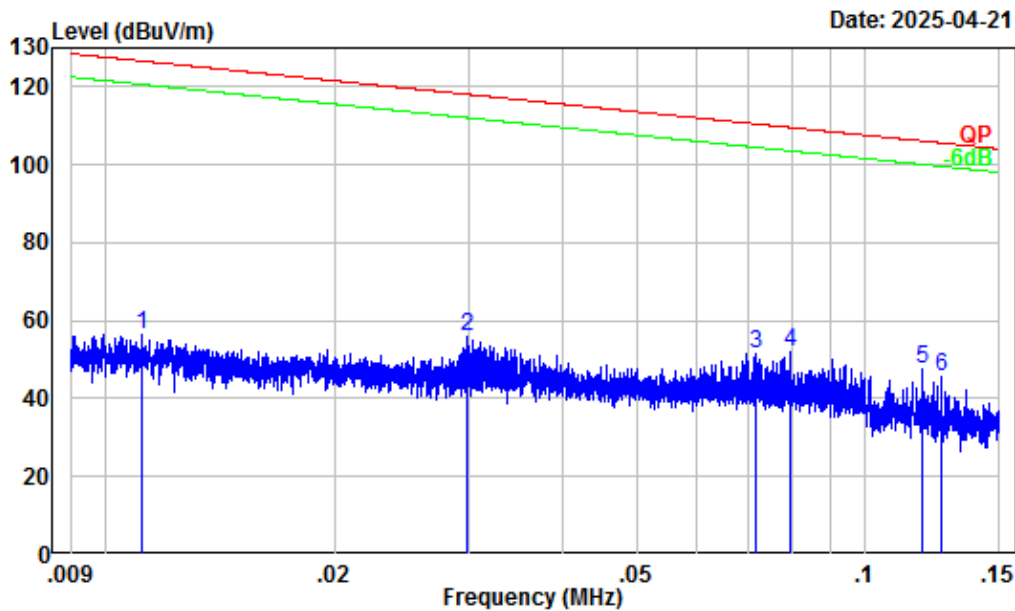


Site : Chamber A
Condition : 3m Vertical
Project Number : 2501Q31691E-RF
Test Mode : 2.4G WIFI Transmitting
Detector: Peak RBW/VBW: 100/300kHz
Tester : Alex Yan

	Freq Factor		Read		Limit	Over	Remark
	Freq	Factor	Level	Level	Line	Limit	
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	32.99	-7.58	36.44	28.86	40.00	-11.14	Peak
2	121.66	-11.28	38.61	27.33	43.50	-16.17	Peak
3	176.04	-13.46	50.20	36.74	43.50	-6.76	Peak
4	179.47	-13.65	49.27	35.62	43.50	-7.88	Peak
5	212.92	-14.14	45.64	31.50	43.50	-12.00	Peak
6	720.15	-3.20	37.07	33.87	46.00	-12.13	Peak

ANT1 (Maximum output power mode, 802.11ax20 Middle channel)

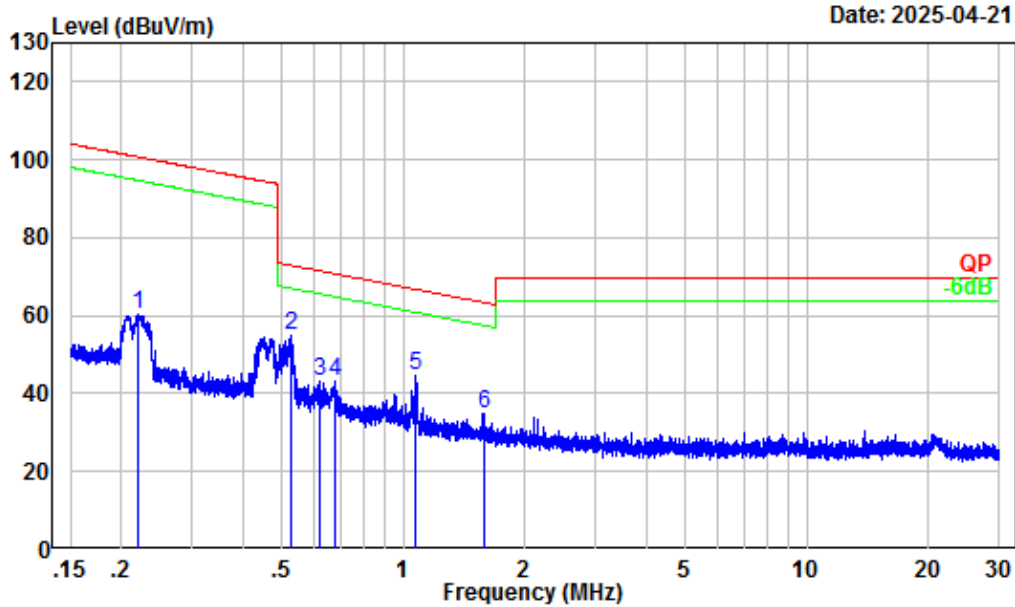
9kHz-150kHz



Site : Chamber A
Condition : 3m
Project Number : 2501Q31691E-RF
Test Mode : 2.4G WIFI Transmitting
Detector: Peak RBW/VBW: 0.3/1kHz
Tester : Alex Yan

	Freq	Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.01	32.08	24.42	56.50	126.64	-70.14	Peak
2	0.03	28.52	27.36	55.88	118.09	-62.21	Peak
3	0.07	24.21	27.42	51.63	110.47	-58.84	Peak
4	0.08	23.45	28.32	51.77	109.60	-57.83	Peak
5	0.12	20.91	26.82	47.73	106.13	-58.40	Peak
6	0.13	20.47	24.97	45.44	105.61	-60.17	Peak

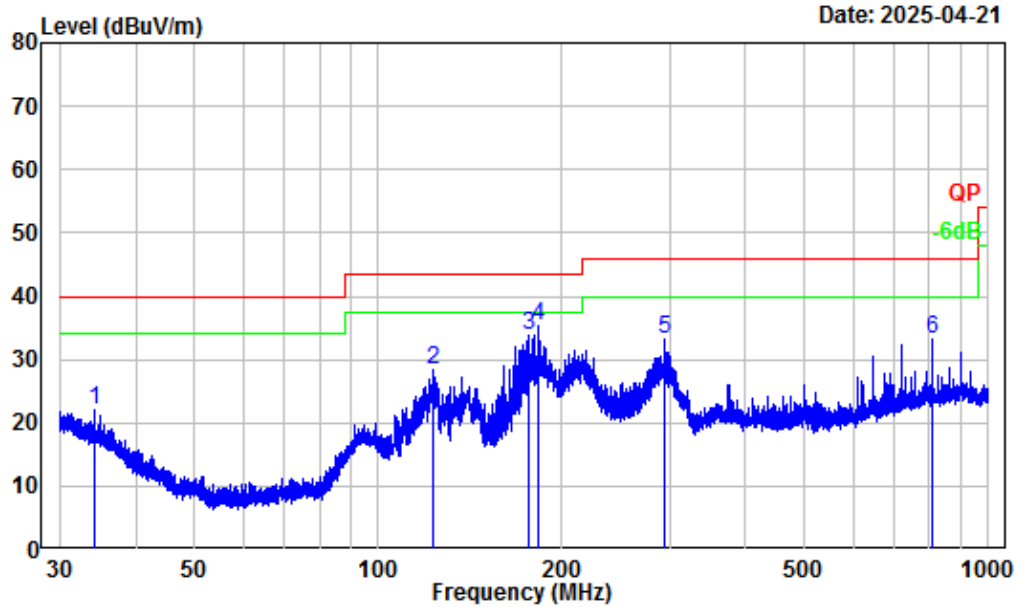
150kHz-30MHz



Site : Chamber A
Condition : 3m
Project Number : 2501Q31691E-RF
Test Mode : 2.4G WIFI Transmitting
Detector: Peak RBW/VBW: 10/30kHz
Tester : Alex Yan

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.22	14.84	45.46	60.30	100.70	-40.40	Peak
2	0.53	6.08	48.91	54.99	73.17	-18.18	Peak
3	0.62	4.91	38.17	43.08	71.70	-28.62	Peak
4	0.68	4.22	38.71	42.93	70.94	-28.01	Peak
5	1.08	0.99	43.89	44.88	66.83	-21.95	Peak
6	1.58	-0.43	35.27	34.84	63.41	-28.57	Peak

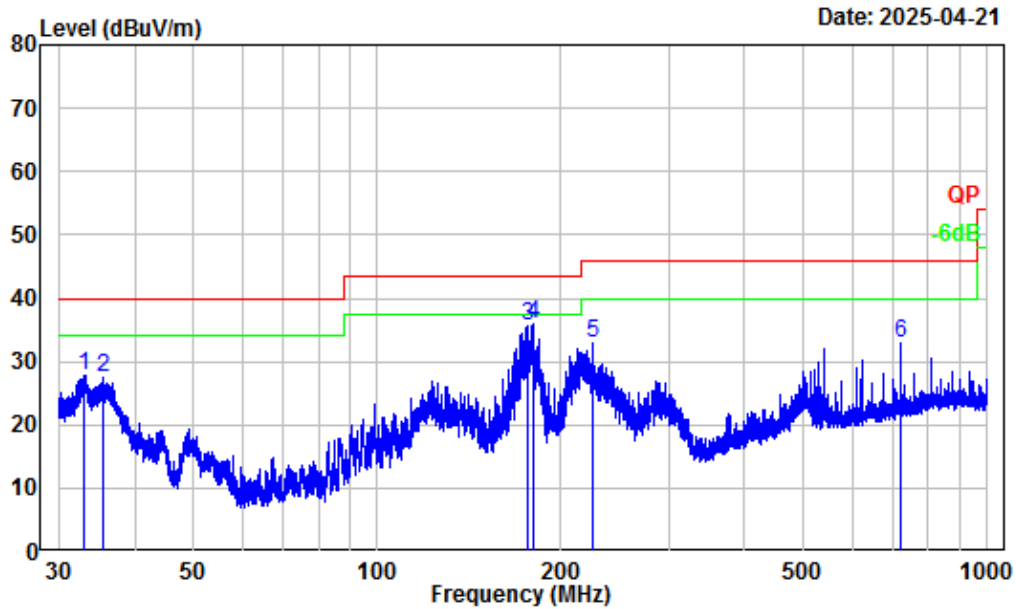
30MHz-1GHz_Horizontal



Site : Chamber A
Condition : 3m Horizontal
Project Number : 2501Q31691E-RF
Test Mode : 2.4G WIFI Transmitting
Detector: Peak RBW/VBW: 100/300kHz
Tester : Alex Yan

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	34.34	-8.48	30.49	22.01	40.00	-17.99	Peak
2	123.10	-11.14	39.41	28.27	43.50	-15.23	Peak
3	176.27	-13.46	47.37	33.91	43.50	-9.59	Peak
4	183.44	-13.91	49.27	35.36	43.50	-8.14	Peak
5	294.11	-11.22	44.46	33.24	46.00	-12.76	Peak
6	810.27	-2.03	35.30	33.27	46.00	-12.73	Peak

30MHz-1GHz_Vertical



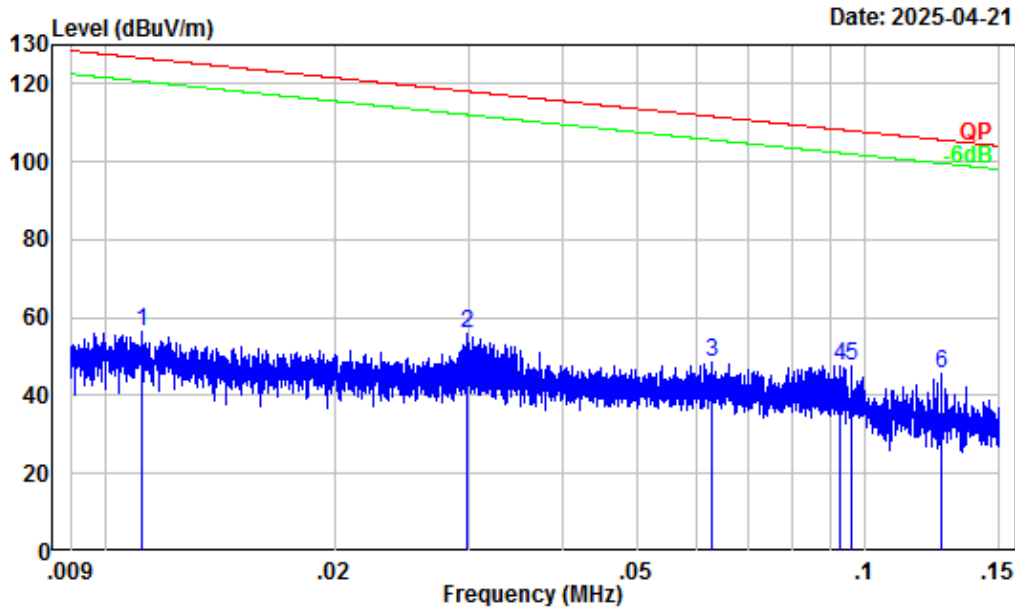
Site : Chamber A
Condition : 3m Vertical
Project Number : 2501Q31691E-RF
Test Mode : 2.4G WIFI Transmitting
Detector: Peak RBW/VBW: 100/300kHz
Tester : Alex Yan

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	33.05	-7.62	35.45	27.83	40.00	-12.17	Peak
2	35.56	-9.22	36.78	27.56	40.00	-12.44	Peak
3	176.04	-13.46	49.22	35.76	43.50	-7.74	Peak
4	179.70	-13.65	49.46	35.81	43.50	-7.69	Peak
5	225.01	-14.07	46.97	32.90	46.00	-13.10	Peak
6	720.15	-3.20	36.08	32.88	46.00	-13.12	Peak

For module YL43456: (Maximum output power mode, 802.11g Low channel)

Power by adapter

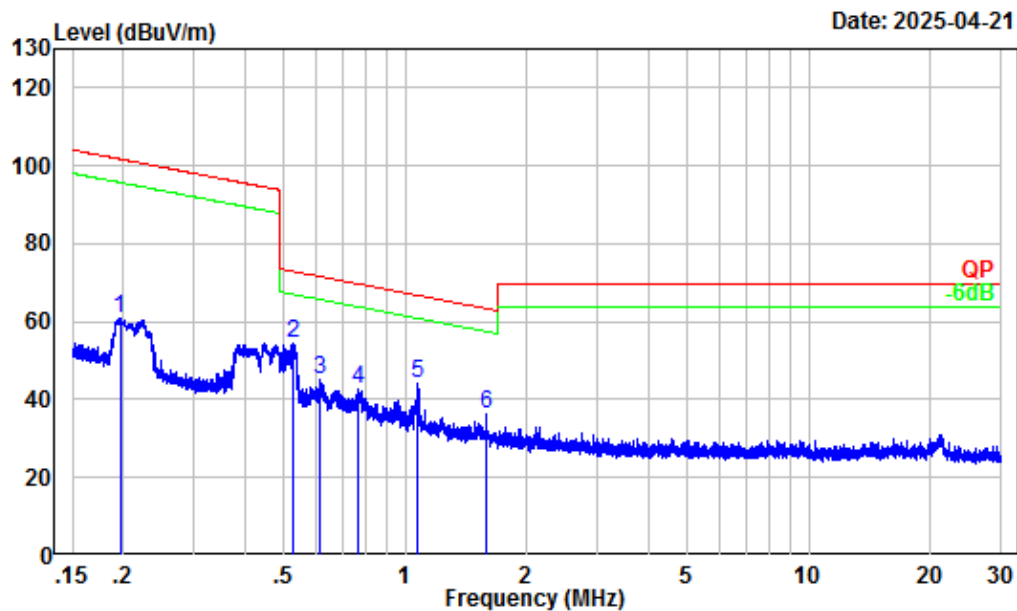
9kHz-150kHz



Site : Chamber A
Condition : 3m
Project Number : 2501Q31691E-RF
Test Mode : 2.4G WIFI Transmitting
Detector: Peak RBW/VBW: 0.3/1kHz
Tester : Alex Yan

	Freq	Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.01	32.08	24.42	56.50	126.64	-70.14	Peak
2	0.03	28.52	27.36	55.88	118.09	-62.21	Peak
3	0.06	25.11	23.31	48.42	111.63	-63.21	Peak
4	0.09	22.53	24.90	47.43	108.29	-60.86	Peak
5	0.10	22.30	25.08	47.38	107.99	-60.61	Peak
6	0.13	20.47	24.97	45.44	105.61	-60.17	Peak

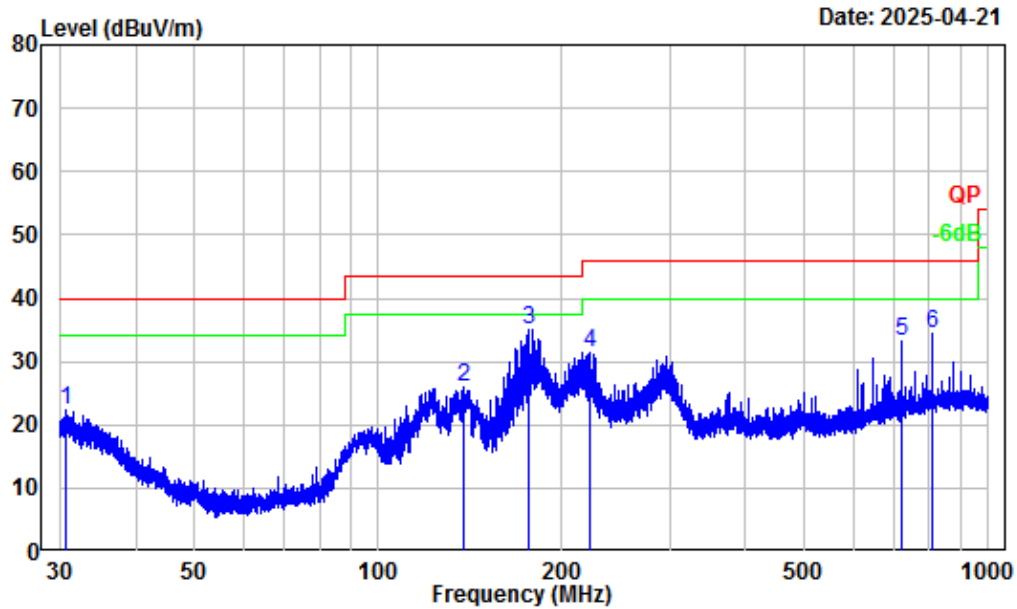
150kHz-30MHz



Site : Chamber A
Condition : 3m
Project Number : 2501Q31691E-RF
Test Mode : 2.4G WIFI Transmitting
Detector: Peak RBW/VBW: 10/30kHz
Tester : Alex Yan

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.20	16.30	44.50	60.80	101.73	-40.93	Peak
2	0.53	6.03	48.25	54.28	73.11	-18.83	Peak
3	0.61	5.01	40.23	45.24	71.82	-26.58	Peak
4	0.77	3.13	39.47	42.60	69.84	-27.24	Peak
5	1.08	0.99	42.98	43.97	66.82	-22.85	Peak
6	1.59	-0.44	36.75	36.31	63.38	-27.07	Peak

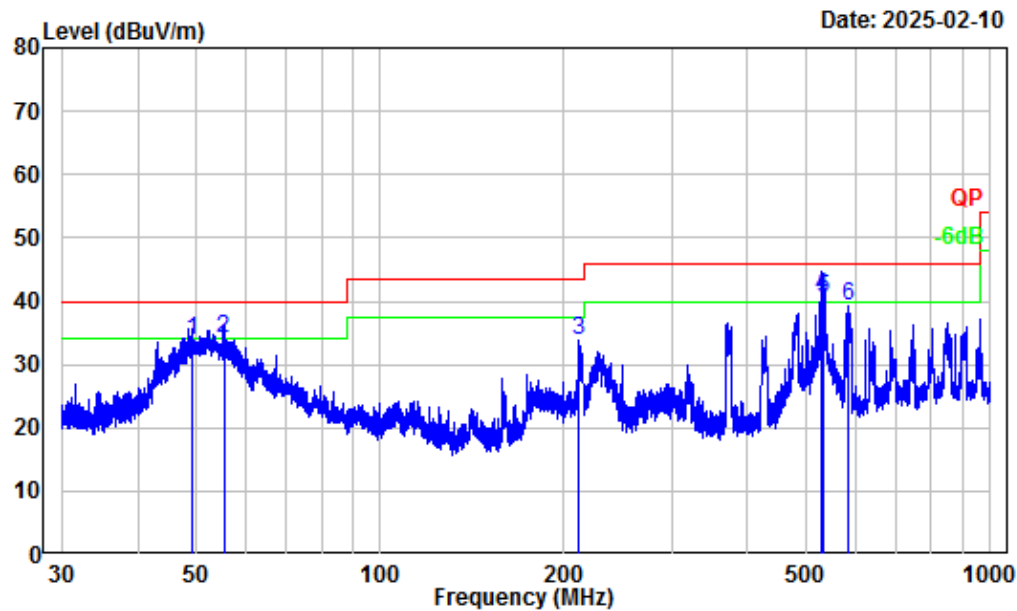
30MHz-1GHz_Horizontal



Site : Chamber A
Condition : 3m Horizontal
Project Number : 2501Q31691E-RF
Test Mode : 2.4G WIFI Transmitting
Detector: Peak RBW/VBW: 100/300kHz
Tester : Alex Yan

	Freq Factor		Read	Limit	Over	Remark
	MHz	dB/m	Level	Line	Limit	
			dBuV	dBuV/m	dBuV/m	
1	30.69	-6.32	28.77	22.45	40.00	-17.55 Peak
2	137.54	-11.65	37.70	26.05	43.50	-17.45 Peak
3	176.11	-13.46	48.48	35.02	43.50	-8.48 Peak
4	221.78	-14.15	45.62	31.47	46.00	-14.53 Peak
5	720.15	-3.20	36.33	33.13	46.00	-12.87 Peak
6	810.27	-2.03	36.41	34.38	46.00	-11.62 Peak

30MHz-1GHz_Vertical

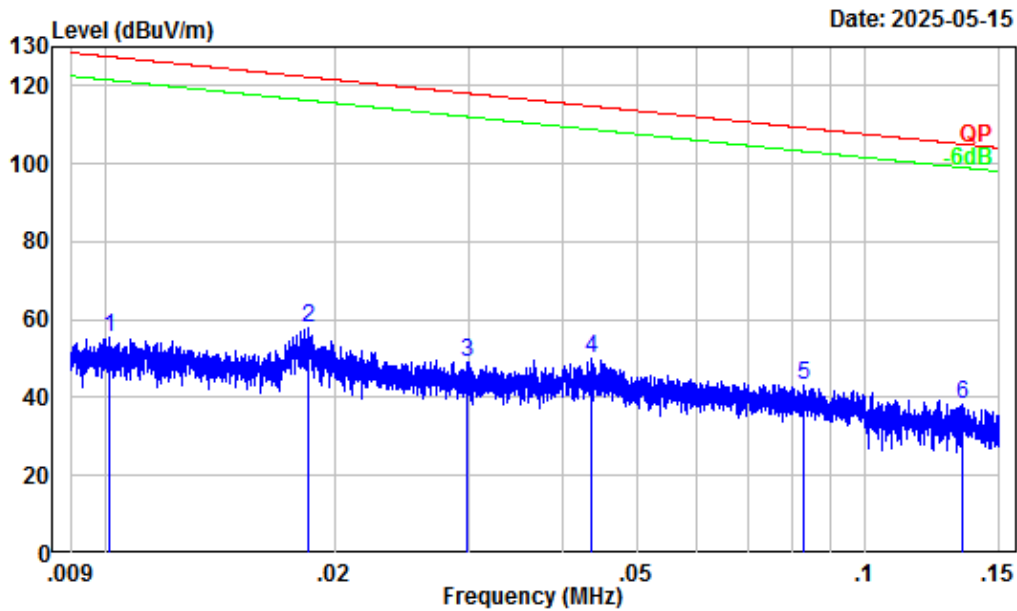


Site : Chamber A
Condition : 3m Vertical
Project Number : 2401Z103823E-RF
Test Mode : Transmitting
Detector: Peak RBW/VBW: 100/300kHz
Tester : Jack Liu

	Freq	Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	49.23	-17.78	51.71	33.93	40.00	-6.07	QP
2	55.34	-18.32	52.40	34.08	40.00	-5.92	QP
3	210.88	-14.06	48.02	33.96	43.50	-9.54	Peak
4	529.40	-5.80	46.56	40.76	46.00	-5.24	QP
5	532.66	-5.75	46.15	40.40	46.00	-5.60	QP
6	586.07	-5.26	44.46	39.20	46.00	-6.80	Peak

Power by POE

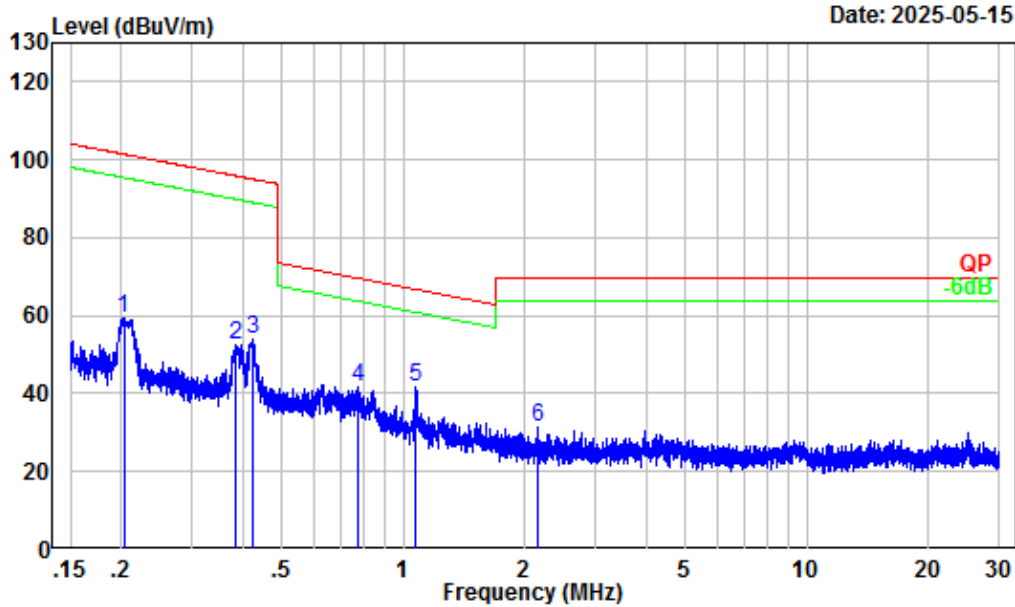
9kHz-150kHz



Site : Chamber A
Condition : 3m
Project Number : 2501Q31691E-RF
Test Mode : 2.4G WIFI Transmitting
Detector: Peak RBW/VBW: 0.3/1kHz
Tester : Anson Su

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.010	32.27	23.02	55.29	127.48	-72.19	Peak
2	0.019	30.68	27.16	57.84	122.25	-64.41	Peak
3	0.030	28.52	20.37	48.89	118.10	-69.21	Peak
4	0.044	27.06	23.22	50.28	114.80	-64.52	Peak
5	0.083	23.20	20.03	43.23	109.24	-66.01	Peak
6	0.134	19.99	18.36	38.35	105.06	-66.71	Peak

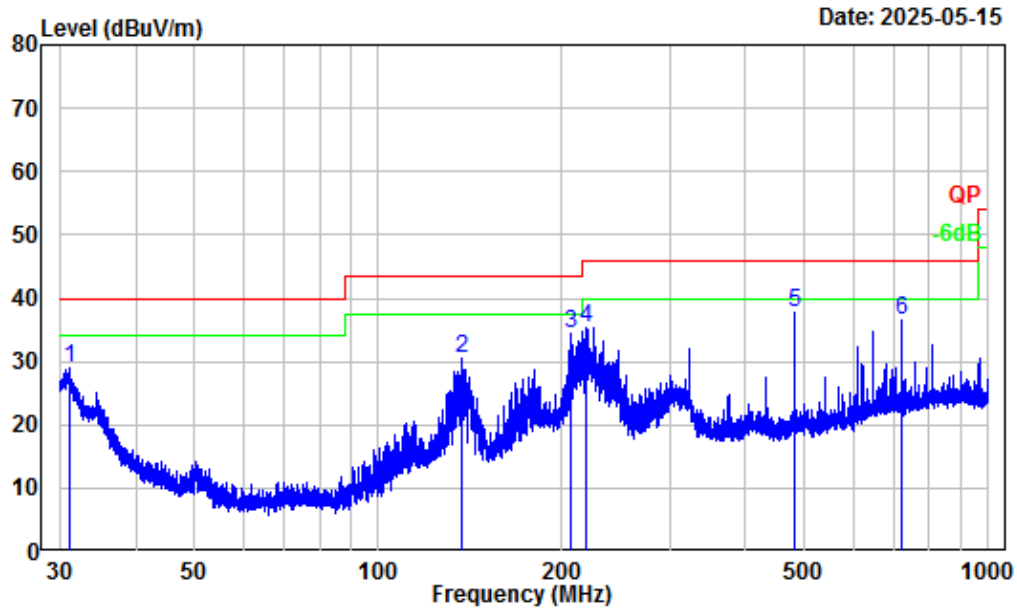
150kHz-30MHz



Site : Chamber A
Condition : 3m
Project Number : 2501Q31691E-RF
Test Mode : 2.4G WIFI Transmitting
Detector: Peak RBW/VBW: 10/30kHz
Tester : Anson Su

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.203	15.91	43.63	59.54	101.45	-41.91	Peak
2	0.385	8.58	44.05	52.63	95.89	-43.26	Peak
3	0.424	7.84	46.29	54.13	95.05	-40.92	Peak
4	0.772	3.05	38.79	41.84	69.77	-27.93	Peak
5	1.076	0.99	40.64	41.63	66.82	-25.19	Peak
6	2.151	-1.68	33.24	31.56	69.54	-37.98	Peak

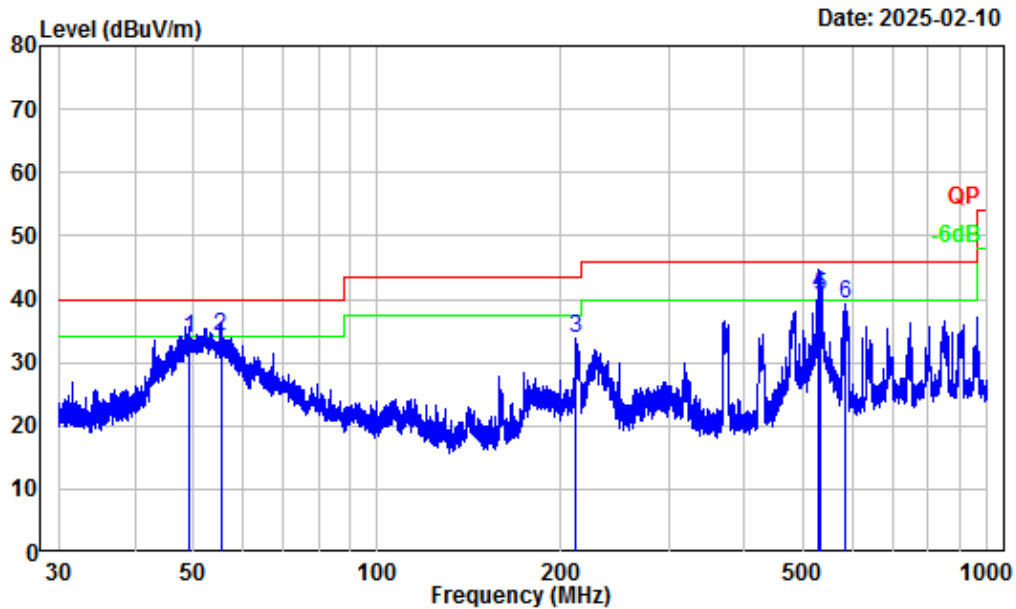
30MHz-1GHz_Horizontal



Site : Chamber A
Condition : 3m Horizontal
Project Number : 2501Q31691E-RF
Test Mode : 2.4G WIFI Transmitting
Detector: Peak RBW/VBW: 100/300kHz
Tester : Anson Su

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	31.08	-6.52	35.52	29.00	40.00	-11.00	Peak
2	137.18	-11.62	42.12	30.50	43.50	-13.00	Peak
3	206.94	-13.67	48.01	34.34	43.50	-9.16	Peak
4	219.17	-14.20	49.61	35.41	46.00	-10.59	Peak
5	480.11	-6.34	44.03	37.69	46.00	-8.31	Peak
6	720.15	-3.20	39.82	36.62	46.00	-9.38	Peak

30MHz-1GHz_Vertical



Site : Chamber A
Condition : 3m Vertical
Project Number : 2401Z103823E-RF
Test Mode : Transmitting
Detector: Peak RBW/VBW: 100/300kHz
Tester : Jack Liu

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	49.23	-17.78	51.71	33.93	40.00	-6.07	QP
2	55.34	-18.32	52.40	34.08	40.00	-5.92	QP
3	210.88	-14.06	48.02	33.96	43.50	-9.54	Peak
4	529.40	-5.80	46.56	40.76	46.00	-5.24	QP
5	532.66	-5.75	46.15	40.40	46.00	-5.60	QP
6	586.07	-5.26	44.46	39.20	46.00	-6.80	Peak

Above 1GHz:**For module YL43752:**

ANT0

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave					
802.11b							
Low Channel							
2390	65.40	PK	H	-10.98	54.42	74	-19.58
2390	53.90	AV	H	-10.98	42.92	54	-11.08
2390	65.06	PK	V	-10.98	54.08	74	-19.92
2390	53.87	AV	V	-10.98	42.89	54	-11.11
4824.00	60.17	PK	H	-7.75	52.42	74	-21.58
4824.00	56.07	AV	H	-7.75	48.32	54	-5.68
4824.00	58.07	PK	V	-7.75	50.32	74	-23.68
4824.00	54.16	AV	V	-7.75	46.41	54	-7.59
Middle Channel							
4874.00	59.82	PK	H	-7.61	52.21	74	-21.79
4874.00	55.87	AV	H	-7.61	48.26	54	-5.74
4874.00	57.80	PK	V	-7.61	50.19	74	-23.81
4874.00	53.74	AV	V	-7.61	46.13	54	-7.87
High Channel							
2483.5	65.25	PK	H	-10.97	54.28	74	-19.72
2483.5	53.11	AV	H	-10.97	42.14	54	-11.86
2483.5	65.03	PK	V	-10.97	54.06	74	-19.94
2483.5	53.80	AV	V	-10.97	42.83	54	-11.17
4924.00	59.80	PK	H	-7.57	52.23	74	-21.77
4924.00	55.68	AV	H	-7.57	48.11	54	-5.89
4924.00	57.66	PK	V	-7.57	50.09	74	-23.91
4924.00	53.67	AV	V	-7.57	46.1	54	-7.90

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave					
802.11g							
Low Channel							
2390	75.09	PK	H	-10.98	64.11	74	-9.89
2390	54.19	AV	H	-10.98	43.21	54	-10.79
2390	74.74	PK	V	-10.98	63.76	74	-10.24
2390	53.14	AV	V	-10.98	42.16	54	-11.84
4824.00	56.15	PK	H	-7.75	48.4	74	-25.60
4824.00	41.06	AV	H	-7.75	33.31	54	-20.69
4824.00	56.71	PK	V	-7.75	48.96	74	-25.04
4824.00	41.81	AV	V	-7.75	34.06	54	-19.94
Middle Channel							
4874.00	55.92	PK	H	-7.61	48.31	74	-25.69
4874.00	40.86	AV	H	-7.61	33.25	54	-20.75
4874.00	56.83	PK	V	-7.61	49.22	74	-24.78
4874.00	42.04	AV	V	-7.61	34.43	54	-19.57
High Channel							
2483.5	75.25	PK	H	-10.97	64.28	74	-9.72
2483.5	53.83	AV	H	-10.97	42.86	54	-11.14
2483.5	76.20	PK	V	-10.97	65.23	74	-8.77
2483.5	53.22	AV	V	-10.97	42.25	54	-11.75
4924.00	56.42	PK	H	-7.57	48.85	74	-25.15
4924.00	41.17	AV	H	-7.57	33.6	54	-20.40
4924.00	57.23	PK	V	-7.57	49.66	74	-24.34
4924.00	41.82	AV	V	-7.57	34.25	54	-19.75

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave					
802.11n20							
Low Channel							
2390	74.75	PK	H	-10.98	63.77	74	-10.23
2390	53.19	AV	H	-10.98	42.21	54	-11.79
2390	74.23	PK	V	-10.98	63.25	74	-10.75
2390	53.01	AV	V	-10.98	42.03	54	-11.97
4824.00	55.88	PK	H	-7.75	48.13	74	-25.87
4824.00	44.04	AV	H	-7.75	36.29	54	-17.71
4824.00	55.74	PK	V	-7.75	47.99	74	-26.01
4824.00	44.85	AV	V	-7.75	37.1	54	-16.90
Middle Channel							
4874.00	55.85	PK	H	-7.61	48.24	74	-25.76
4874.00	44.90	AV	H	-7.61	37.29	54	-16.71
4874.00	56.12	PK	V	-7.61	48.51	74	-25.49
4874.00	44.62	AV	V	-7.61	37.01	54	-16.99
High Channel							
2483.5	74.84	PK	H	-10.97	63.87	74	-10.13
2483.5	53.86	AV	H	-10.97	42.89	54	-11.11
2483.5	75.48	PK	V	-10.97	64.51	74	-9.49
2483.5	52.43	AV	V	-10.97	41.46	54	-12.54
4924.00	55.84	PK	H	-7.57	48.27	74	-25.73
4924.00	45.08	AV	H	-7.57	37.51	54	-16.49
4924.00	56.46	PK	V	-7.57	48.89	74	-25.11
4924.00	44.85	AV	V	-7.57	37.28	54	-16.72

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave					
802.11ax20							
Low Channel							
2390	74.75	PK	H	-10.98	63.77	74	-10.23
2390	52.87	AV	H	-10.98	41.89	54	-12.11
2390	76.33	PK	V	-10.98	65.35	74	-8.65
2390	52.94	AV	V	-10.98	41.96	54	-12.04
4824.00	55.90	PK	H	-7.75	48.15	74	-25.85
4824.00	43.18	AV	H	-7.75	35.43	54	-18.57
4824.00	57.17	PK	V	-7.75	49.42	74	-24.58
4824.00	44.26	AV	V	-7.75	36.51	54	-17.49
Middle Channel							
4874.00	55.63	PK	H	-7.61	48.02	74	-25.98
4874.00	42.69	AV	H	-7.61	35.08	54	-18.92
4874.00	56.76	PK	V	-7.61	49.15	74	-24.85
4874.00	43.98	AV	V	-7.61	36.37	54	-17.63
High Channel							
2483.5	75.36	PK	H	-10.97	64.39	74	-9.61
2483.5	52.84	AV	H	-10.97	41.87	54	-12.13
2483.5	76.42	PK	V	-10.97	65.45	74	-8.55
2483.5	53.22	AV	V	-10.97	42.25	54	-11.75
4924.00	56.46	PK	H	-7.57	48.89	74	-25.11
4924.00	42.52	AV	H	-7.57	34.95	54	-19.05
4924.00	57.32	PK	V	-7.57	49.75	74	-24.25
4924.00	44.47	AV	V	-7.57	36.9	54	-17.10

ANT1

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave					
802.11b							
Low Channel							
2390	64.65	PK	H	-10.98	53.67	74	-20.33
2390	51.19	AV	H	-10.98	40.21	54	-13.79
2390	64.23	PK	V	-10.98	53.25	74	-20.75
2390	51.11	AV	V	-10.98	40.13	54	-13.87
4824.00	57.77	PK	H	-7.75	50.02	74	-23.98
4824.00	53.02	AV	H	-7.75	45.27	54	-8.73
4824.00	56.96	PK	V	-7.75	49.21	74	-24.79
4824.00	51.85	AV	V	-7.75	44.1	54	-9.90
Middle Channel							
4874.00	57.75	PK	H	-7.61	50.14	74	-23.86
4874.00	52.68	AV	H	-7.61	45.07	54	-8.93
4874.00	57.05	PK	V	-7.61	49.44	74	-24.56
4874.00	51.94	AV	V	-7.61	44.33	54	-9.67
High Channel							
2483.5	64.07	PK	H	-10.97	53.1	74	-20.90
2483.5	50.86	AV	H	-10.97	39.89	54	-14.11
2483.5	64.71	PK	V	-10.97	53.74	74	-20.26
2483.5	51.36	AV	V	-10.97	40.39	54	-13.61
4924.00	57.53	PK	H	-7.57	49.96	74	-24.04
4924.00	51.93	AV	H	-7.57	44.36	54	-9.64
4924.00	56.54	PK	V	-7.57	48.97	74	-25.03
4924.00	51.49	AV	V	-7.57	43.92	54	-10.08

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave					
802.11g							
Low Channel							
2390	73.47	PK	H	-10.98	62.49	74	-11.51
2390	53.98	AV	H	-10.98	43	54	-11.00
2390	73.28	PK	V	-10.98	62.3	74	-11.70
2390	55.16	AV	V	-10.98	44.18	54	-9.82
4824.00	51.86	PK	H	-7.75	44.11	74	-29.89
4824.00	39.90	AV	H	-7.75	32.15	54	-21.85
4824.00	52.05	PK	V	-7.75	44.3	74	-29.70
4824.00	39.93	AV	V	-7.75	32.18	54	-21.82
Middle Channel							
4874.00	51.90	PK	H	-7.61	44.29	74	-29.71
4874.00	39.81	AV	H	-7.61	32.2	54	-21.80
4874.00	51.93	PK	V	-7.61	44.32	74	-29.68
4874.00	39.56	AV	V	-7.61	31.95	54	-22.05
High Channel							
2483.5	73.19	PK	H	-10.97	62.22	74	-11.78
2483.5	54.94	AV	H	-10.97	43.97	54	-10.03
2483.5	74.34	PK	V	-10.97	63.37	74	-10.63
2483.5	55.71	AV	V	-10.97	44.74	54	-9.26
4924.00	51.73	PK	H	-7.57	44.16	74	-29.84
4924.00	39.69	AV	H	-7.57	32.12	54	-21.88
4924.00	51.57	PK	V	-7.57	44	74	-30.00
4924.00	39.62	AV	V	-7.57	32.05	54	-21.95

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave					
802.11n20							
Low Channel							
2390	74.36	PK	H	-10.98	63.38	74	-10.62
2390	51.76	AV	H	-10.98	40.78	54	-13.22
2390	74.95	PK	V	-10.98	63.97	74	-10.03
2390	52.41	AV	V	-10.98	41.43	54	-12.57
4824.00	50.74	PK	H	-7.75	42.99	74	-31.01
4824.00	39.88	AV	H	-7.75	32.13	54	-21.87
4824.00	50.83	PK	V	-7.75	43.08	74	-30.92
4824.00	39.07	AV	V	-7.75	31.32	54	-22.68
Middle Channel							
4874.00	50.23	PK	H	-7.61	42.62	74	-31.38
4874.00	40.04	AV	H	-7.61	32.43	54	-21.57
4874.00	50.76	PK	V	-7.61	43.15	74	-30.85
4874.00	39.56	AV	V	-7.61	31.95	54	-22.05
High Channel							
2483.5	75.25	PK	H	-10.97	64.28	74	-9.72
2483.5	53.86	AV	H	-10.97	42.89	54	-11.11
2483.5	75.81	PK	V	-10.97	64.84	74	-9.16
2483.5	52.30	AV	V	-10.97	41.33	54	-12.67
4924.00	51.09	PK	H	-7.57	43.52	74	-30.48
4924.00	39.46	AV	H	-7.57	31.89	54	-22.11
4924.00	50.79	PK	V	-7.57	43.22	74	-30.78
4924.00	39.60	AV	V	-7.57	32.03	54	-21.97

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave					
802.11ax20							
Low Channel							
2390	75.68	PK	H	-10.98	64.7	74	-9.30
2390	53.49	AV	H	-10.98	42.51	54	-11.49
2390	75.32	PK	V	-10.98	64.34	74	-9.66
2390	53.11	AV	V	-10.98	42.13	54	-11.87
4824.00	51.63	PK	H	-7.75	43.88	74	-30.12
4824.00	39.40	AV	H	-7.75	31.65	54	-22.35
4824.00	51.12	PK	V	-7.75	43.37	74	-30.63
4824.00	38.66	AV	V	-7.75	30.91	54	-23.09
Middle Channel							
4874.00	50.60	PK	H	-7.61	42.99	74	-31.01
4874.00	39.59	AV	H	-7.61	31.98	54	-22.02
4874.00	50.68	PK	V	-7.61	43.07	74	-30.93
4874.00	40.46	AV	V	-7.61	32.85	54	-21.15
High Channel							
2483.5	75.92	PK	H	-10.97	64.95	74	-9.05
2483.5	53.75	AV	H	-10.97	42.78	54	-11.22
2483.5	75.21	PK	V	-10.97	64.24	74	-9.76
2483.5	53.47	AV	V	-10.97	42.5	54	-11.50
4924.00	51.84	PK	H	-7.57	44.27	74	-29.73
4924.00	39.95	AV	H	-7.57	32.38	54	-21.62
4924.00	51.03	PK	V	-7.57	43.46	74	-30.54
4924.00	40.23	AV	V	-7.57	32.66	54	-21.34

For module YL43456:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave					
802.11b							
Low Channel							
2390	69.79	PK	H	-10.98	58.81	74	-15.19
2390	57.13	AV	H	-10.98	46.15	54	-7.85
2390	69.87	PK	V	-10.98	58.89	74	-15.11
2390	57.11	AV	V	-10.98	46.13	54	-7.87
4824.00	60.81	PK	H	-7.75	53.06	74	-20.94
4824.00	59.15	AV	H	-7.75	51.4	54	-2.60
4824.00	60.96	PK	V	-7.75	53.21	74	-20.79
4824.00	58.79	AV	V	-7.75	51.04	54	-2.96
Middle Channel							
4874.00	61.25	PK	H	-7.61	53.64	74	-20.36
4874.00	58.59	AV	H	-7.61	50.98	54	-3.02
4874.00	60.71	PK	V	-7.61	53.1	74	-20.90
4874.00	58.55	AV	V	-7.61	50.94	54	-3.06
High Channel							
2483.5	69.71	PK	H	-10.97	58.74	74	-15.26
2483.5	57.24	AV	H	-10.97	46.27	54	-7.73
2483.5	69.92	PK	V	-10.97	58.95	74	-15.05
2483.5	56.94	AV	V	-10.97	45.97	54	-8.03
4924.00	61.54	PK	H	-7.57	53.97	74	-20.03
4924.00	59.41	AV	H	-7.57	51.84	54	-2.16
4924.00	61.60	PK	V	-7.57	54.03	74	-19.97
4924.00	59.40	AV	V	-7.57	51.83	54	-2.17

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave					
802.11g							
Low Channel							
2390.00	81.20	PK	H	-10.98	70.22	74	-3.78
2390.00	61.71	AV	H	-10.98	50.73	54	-3.27
2390.00	75.56	PK	V	-10.98	64.58	74	-9.42
2390.00	55.60	AV	V	-10.98	44.62	54	-9.38
4824.00	62.96	PK	H	-7.75	55.21	74	-18.79
4824.00	46.79	AV	H	-7.75	39.04	54	-14.96
4824.00	61.20	PK	V	-7.75	53.45	74	-20.55
4824.00	45.15	AV	V	-7.75	37.4	54	-16.60
Middle Channel							
4874.00	62.71	PK	H	-7.61	55.1	74	-18.90
4874.00	46.62	AV	H	-7.61	39.01	54	-14.99
4874.00	60.98	PK	V	-7.61	53.37	74	-20.63
4874.00	44.94	AV	V	-7.61	37.33	54	-16.67
High Channel							
2483.5	79.36	PK	H	-10.97	68.39	74	-5.61
2483.5	60.71	AV	H	-10.97	49.74	54	-4.26
2483.50	74.32	PK	V	-10.97	63.35	74	-10.65
2483.50	56.24	AV	V	-10.97	45.27	54	-8.73
4924.00	62.24	PK	H	-7.57	54.67	74	-19.33
4924.00	46.37	AV	H	-7.57	38.8	54	-15.20
4924.00	60.87	PK	V	-7.57	53.3	74	-20.70
4924.00	44.98	AV	V	-7.57	37.41	54	-16.59

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave					
802.11n20							
Low Channel							
2390	80.74	PK	H	-10.98	69.76	74	-4.24
2390	60.09	AV	H	-10.98	49.11	54	-4.89
2390	81.20	PK	V	-10.98	70.22	74	-3.78
2390	60.56	AV	V	-10.98	49.58	54	-4.42
4824.00	63.74	PK	H	-7.75	55.99	74	-18.01
4824.00	48.06	AV	H	-7.75	40.31	54	-13.69
4824.00	63.38	PK	V	-7.75	55.63	74	-18.37
4824.00	47.51	AV	V	-7.75	39.76	54	-14.24
Middle Channel							
4874.00	63.57	PK	H	-7.61	55.96	74	-18.04
4874.00	48.15	AV	H	-7.61	40.54	54	-13.46
4874.00	63.55	PK	V	-7.61	55.94	74	-18.06
4874.00	47.52	AV	V	-7.61	39.91	54	-14.09
High Channel							
2483.5	81.21	PK	H	-10.97	70.24	74	-3.76
2483.5	60.16	AV	H	-10.97	49.19	54	-4.81
2483.5	80.51	PK	V	-10.97	69.54	74	-4.46
2483.5	60.11	AV	V	-10.97	49.14	54	-4.86
4924.00	63.35	PK	H	-7.57	55.78	74	-18.22
4924.00	47.55	AV	H	-7.57	39.98	54	-14.02
4924.00	63.09	PK	V	-7.57	55.52	74	-18.48
4924.00	46.79	AV	V	-7.57	39.22	54	-14.78

Note:

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

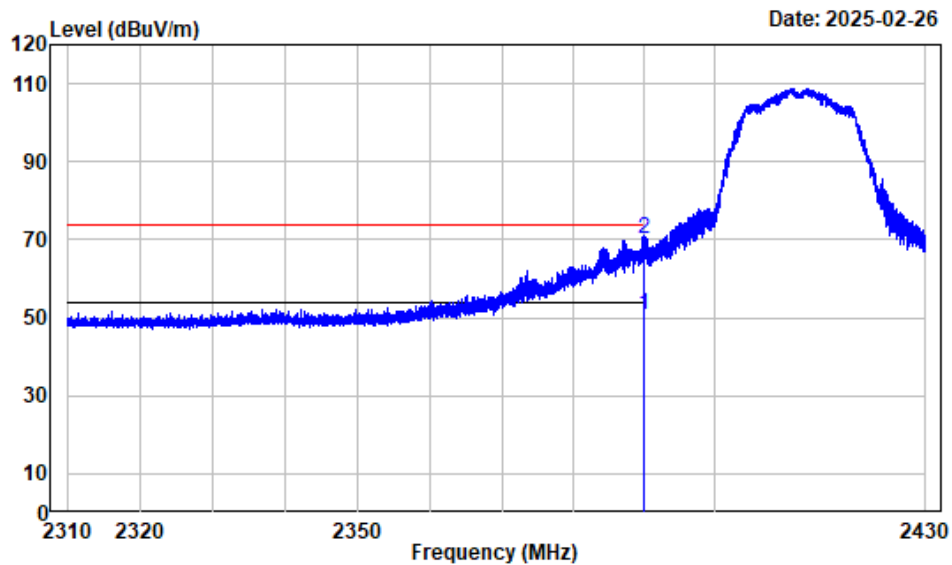
Corrected Amplitude = Corrected Factor + Reading

Margin = Corrected. Amplitude - Limit

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

Test plots**Band Edge (Listed with the worst margin test plots)****Module YL43456 802.11g:**

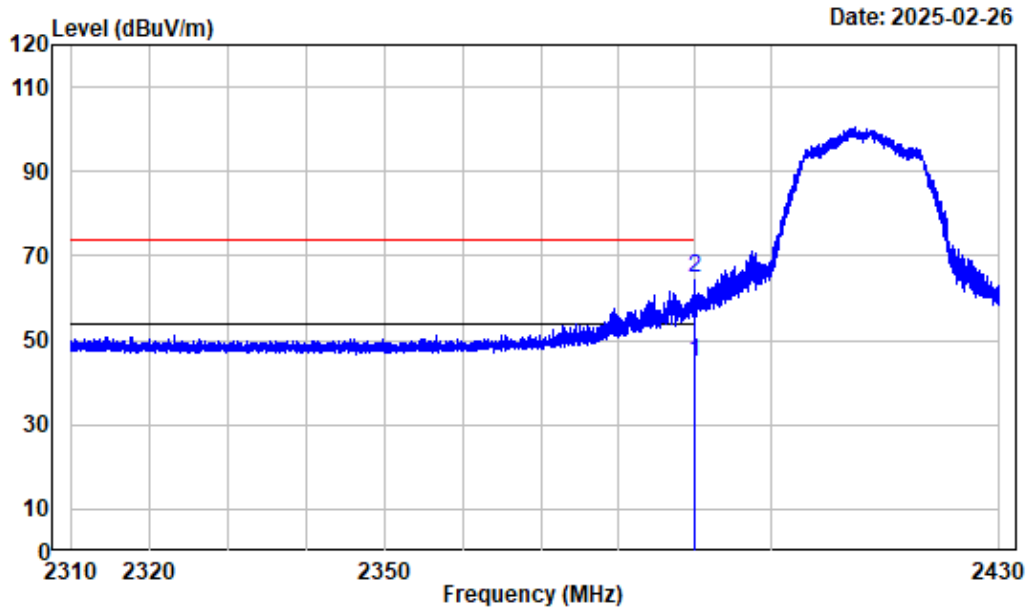
Left Band edge_ Horizontal



Condition : Horizontal
Project No. : 2501Q31691E-RF
Tester : Visen Wu
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
: Average reading: RBW:1MHz VBW:1kHz Detector:Peak
Note : 2.4GWiFi_G_2412

Freq Factor		Read Level		Limit	Over	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	2390.000	-10.98	61.71	50.73	54.00	-3.27 Average
2	2390.000	-10.98	81.20	70.22	74.00	-3.78 Peak

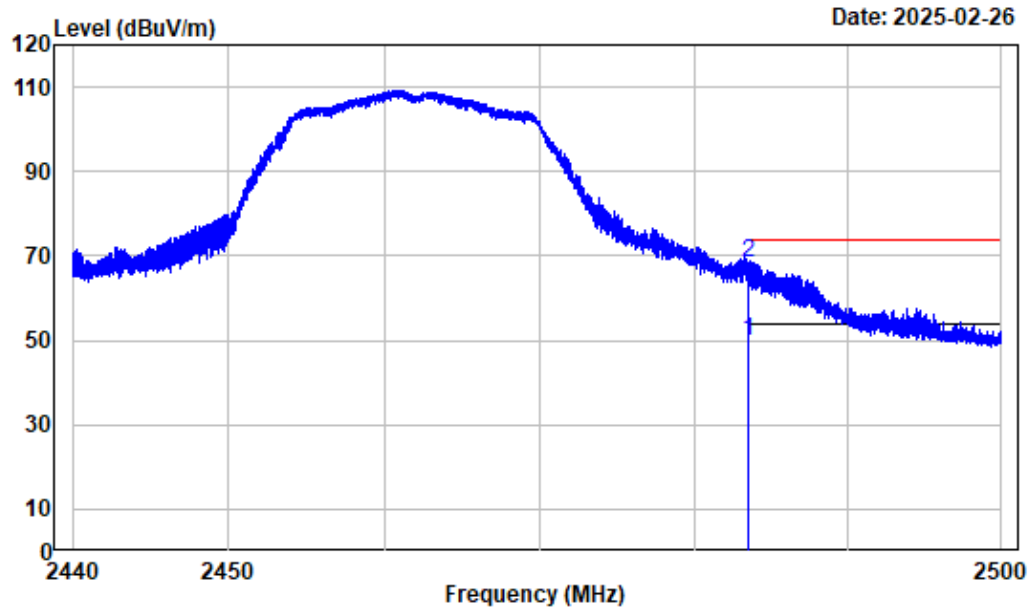
Left Band edge_ Vertical



Condition : Vertical
Project No. : 2501Q31691E-RF
Tester : Visen Wu
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
: Average reading: RBW:1MHz VBW:1kHz Detector:Peak
Note : 2.4GWiFi_G_2412

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	2390.000	-10.98	55.60	44.62	54.00	-9.38	Average
2	2390.000	-10.98	75.56	64.58	74.00	-9.42	Peak

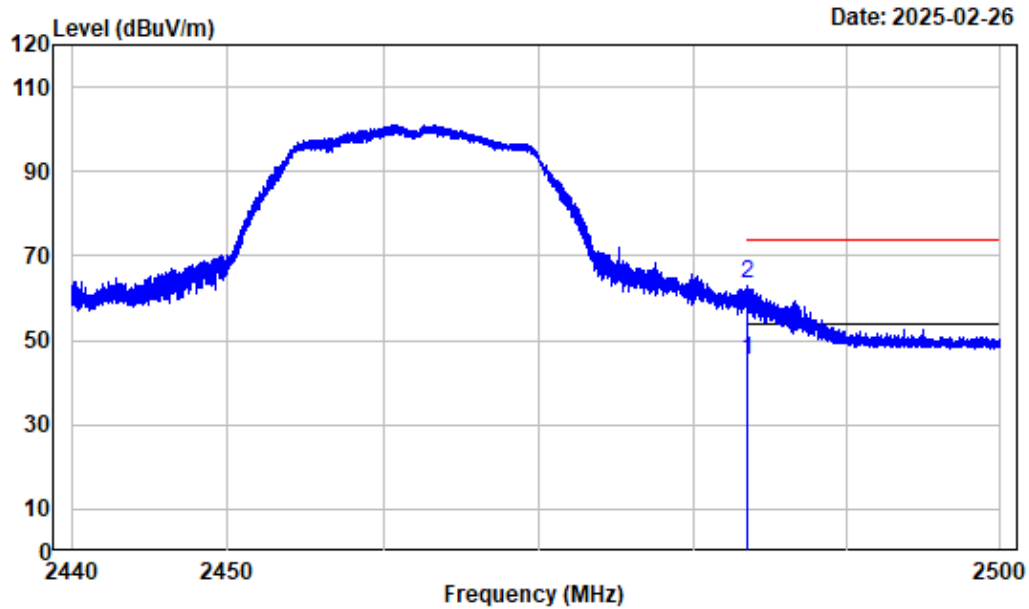
Right Band edge_ Horizontal



Condition : Horizontal
Project No. : 2501Q31691E-RF
Tester : Visen Wu
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
: Average reading: RBW:1MHz VBW:1kHz Detector:Peak
Note : 2.4GWiFi_G_2462

	Freq Factor		Read Level		Limit	Over	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	2483.500	-10.97	60.71	49.74	54.00	-4.26	Average
2	2483.500	-10.97	79.36	68.39	74.00	-5.61	Peak

Right Band edge_ Vertical

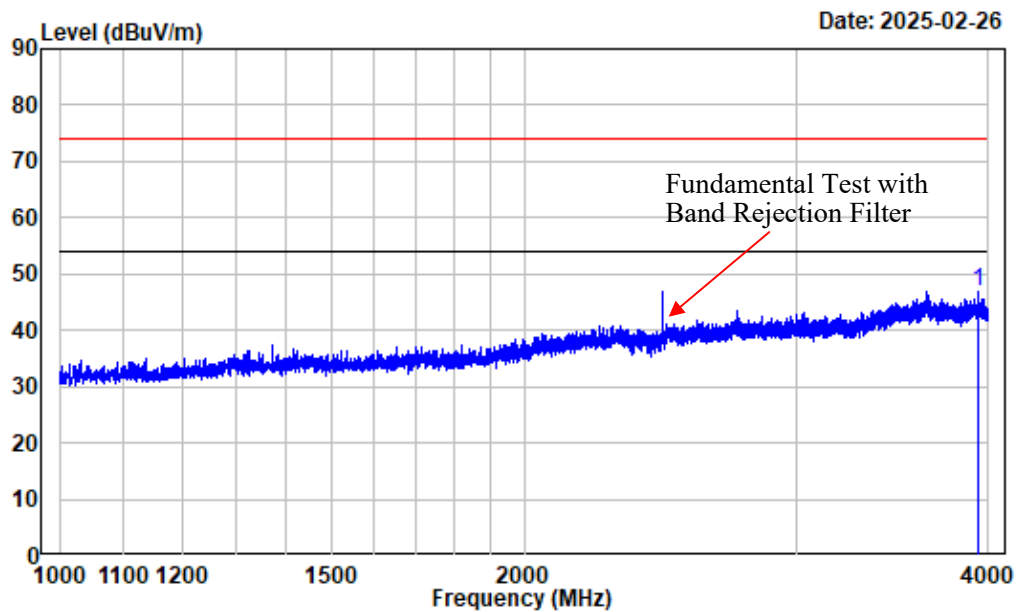


Condition : Vertical
Project No. : 2501Q31691E-RF
Tester : Visen Wu
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
: Average reading: RBW:1MHz VBW:1kHz Detector:Peak
Note : 2.4GWiFi_G_2462

	Freq Factor		Read Level		Limit	Over	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	2483.500	-10.97	56.24	45.27	54.00	-8.73	Average
2	2483.500	-10.97	74.32	63.35	74.00	-10.65	Peak

Listed with the worst harmonic margin test plot: Module YL43456 802.11b 2462MHz

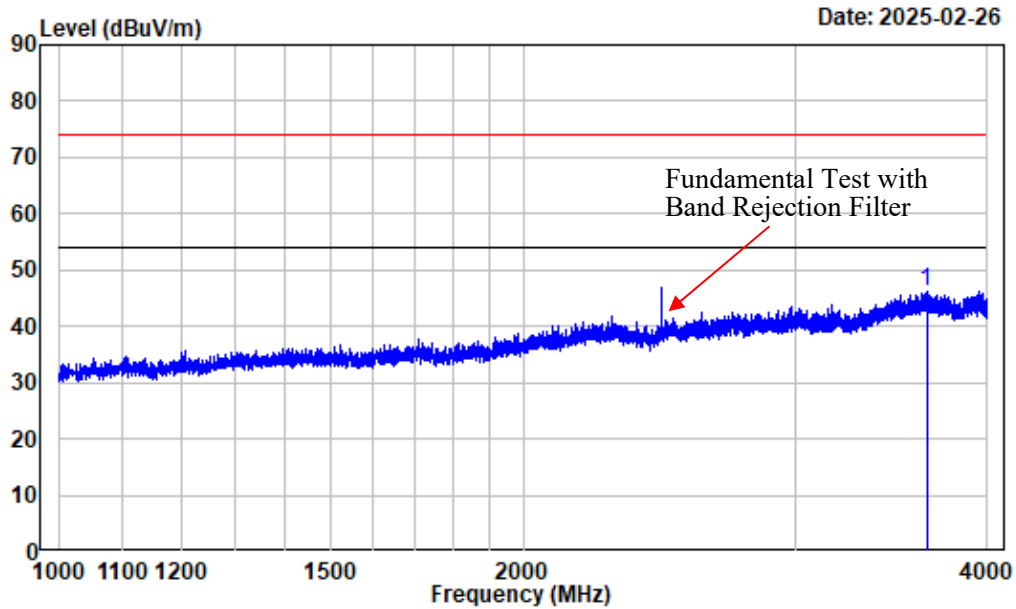
1-4GHz_Horizontal



Condition : Horizontal
Project No. : 2501Q31691E-RF
Tester : Visen Wu
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
Note : 2.4GWiFi_b_2462

Freq Factor		Read	Limit	Over	Remark	
MHz	dB/m	Level	Level	Line		
		dBuV	dBuV/m	dBuV/m	dB	
1	3944.868	-9.38	56.40	47.02	74.00	-26.98 Peak

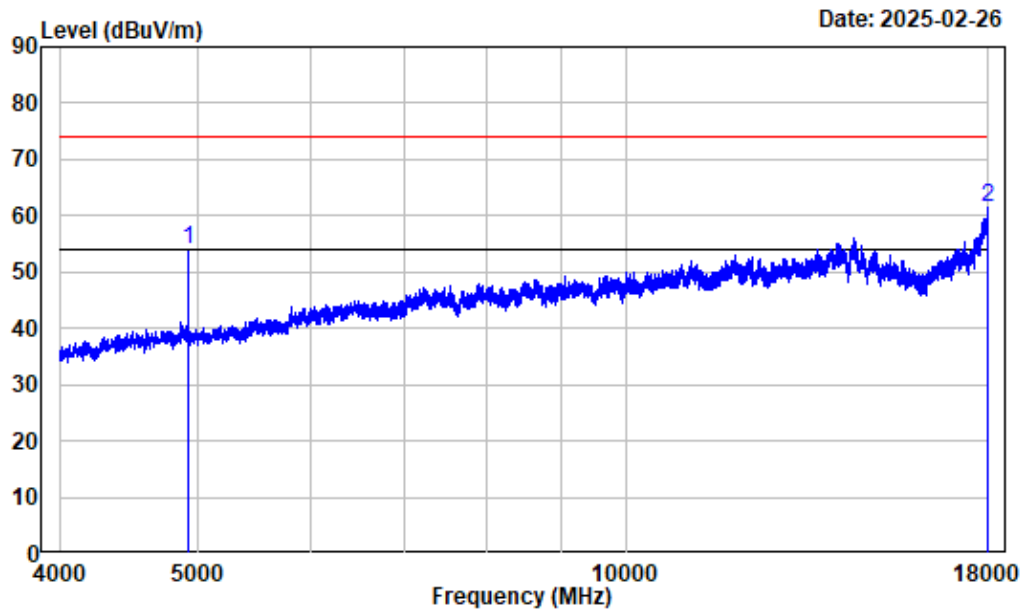
1-4GHz_Vertical



Condition : Vertical
Project No. : 2501Q31691E-RF
Tester : Visen Wu
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
Note : 2.4GWiFi_b_2462

	Freq Factor		Read Level		Limit	Over	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	3653.082	-9.76	56.07	46.31	74.00	-27.69	Peak

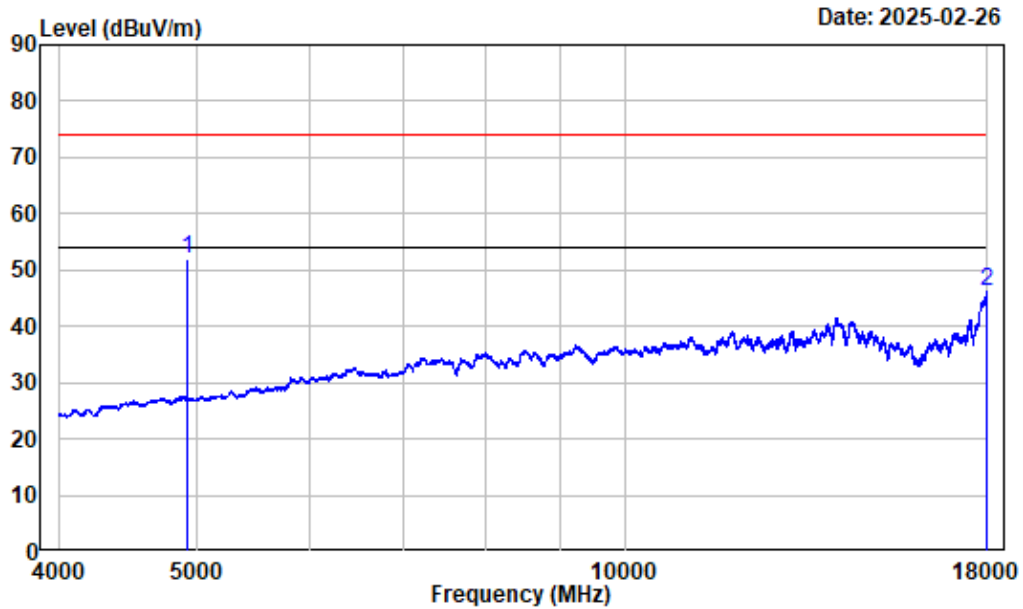
4-18GHz_Horizontal_Peak



Condition : Horizontal
Project No. : 2501Q31691E-RF
Tester : Visen Wu
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
Note : 2.4GWiFi_b_2462

	Freq Factor		Read		Limit	Over	Remark
	MHz	dB/m	Level	Level	Line	Limit	
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	4924.000	-7.57	61.54	53.97	74.00	-20.03	Peak
2	17994.750	13.17	48.17	61.34	74.00	-12.66	Peak

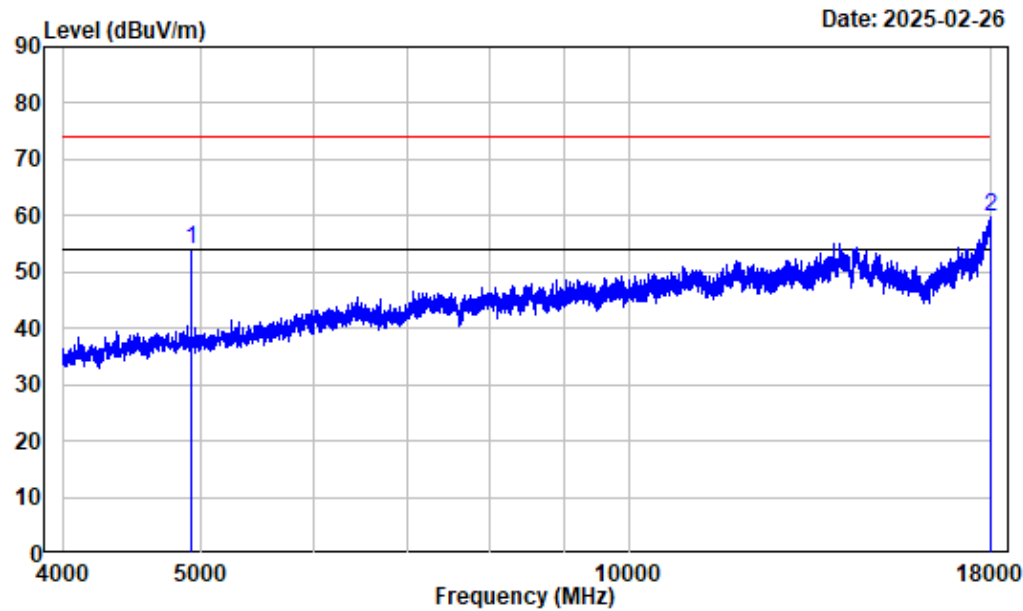
4-18GHz_Horizontal_Average



Condition : Horizontal
Project No. : 2501Q31691E-RF
Tester : Visen Wu
Spectrum setting: Average reading: RBW:1MHz VBW:1kHz Detector:Peak
Note : 2.4GWiFi_b_2462

	Freq Factor		Read Level		Limit	Over	Remark
	MHz	dB/m	dBuV	dBuV/m	Line	Limit	
1	4924.000	-7.57	59.41	51.84	54.00	-2.16	Average
2	17998.250	13.19	33.02	46.21	54.00	-7.79	Average

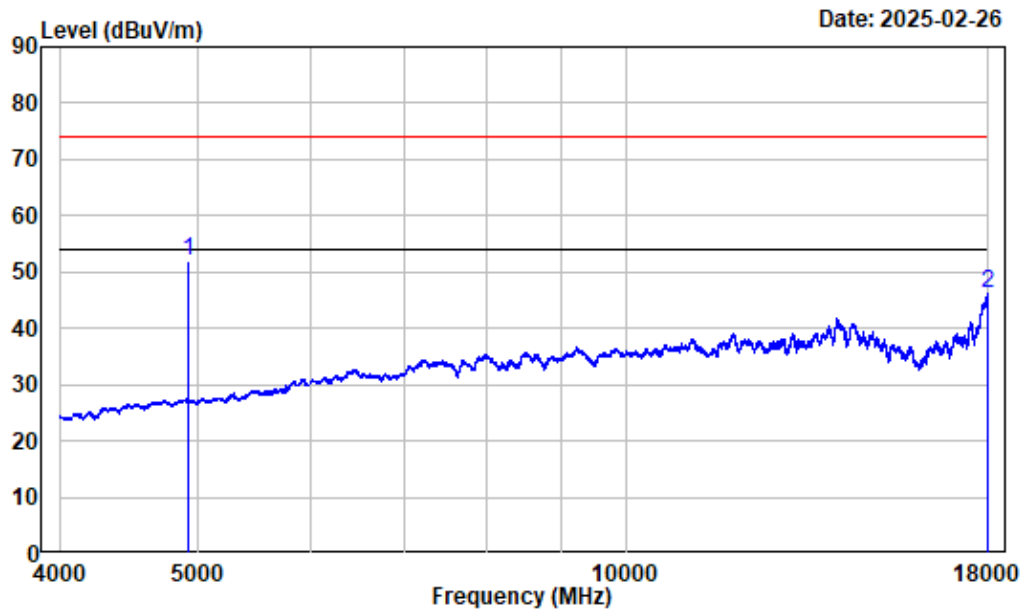
4-18GHz_Vertical_Peak



Condition : Vertical
Project No. : 2501Q31691E-RF
Tester : Visen Wu
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
Note : 2.4GWiFi_b_2462

Freq Factor		Read Level		Limit	Over	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	4924.000	-7.57	61.60	54.03	74.00	-19.97 Peak
2	17977.250	13.09	46.64	59.73	74.00	-14.27 Peak

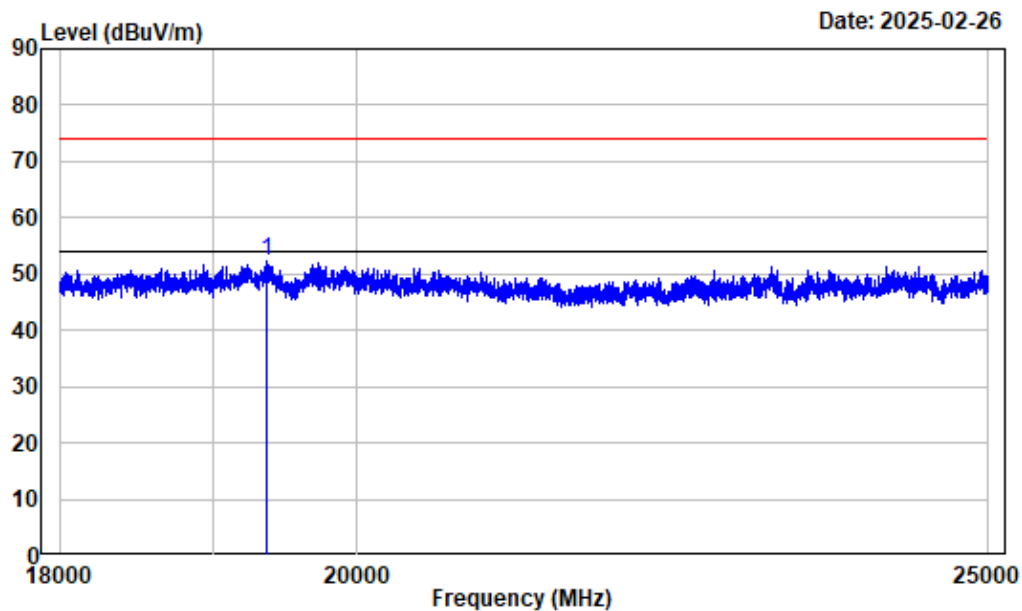
4-18GHz_Vertical_Average



Condition : Vertical
Project No. : 2501Q31691E-RF
Tester : Visen Wu
Spectrum setting: Average reading: RBW:1MHz VBW:1kHz Detector:Peak
Note : 2.4GWiFi_b_2462

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	4924.000	-7.57	59.40	51.83	54.00	-2.17	Average
2	17996.500	13.19	32.97	46.16	54.00	-7.84	Average

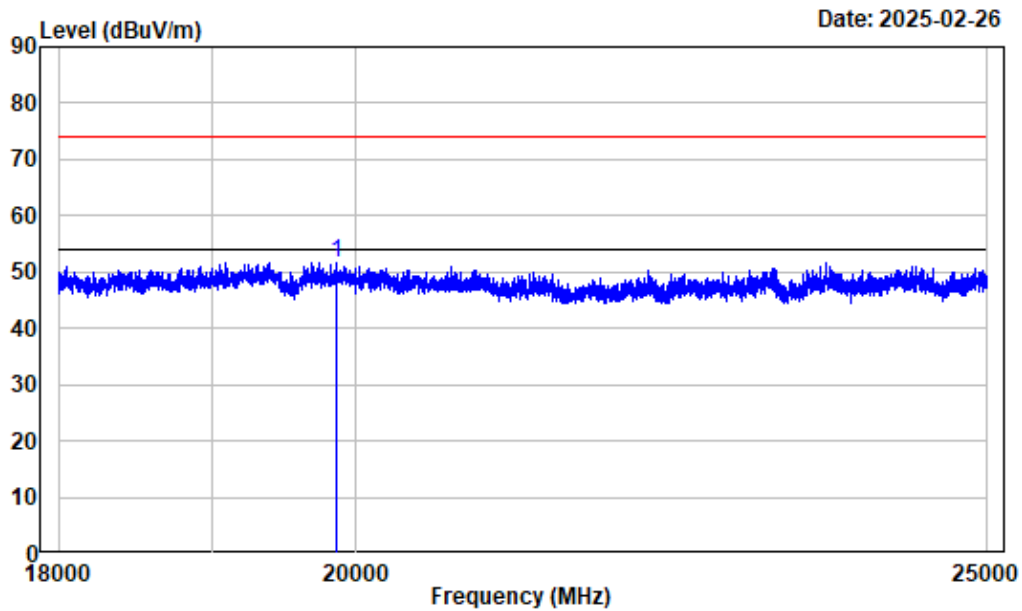
18-25GHz_Horizontal



Condition : Horizontal
Project No. : 2501Q31691E-RF
Tester : Visen Wu
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
Note : 2.4GWiFi_b_2462

1	Freq Factor		Read Level		Limit	Over	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	19374.170	15.11	37.21	52.32	74.00	-21.68	Peak

18-25GHz_Vertical



Condition : Vertical
Project No. : 2501Q31691E-RF
Tester : Visen Wu
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
Note : 2.4GWiFi_b_2462

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	19861.730	15.40	36.31	51.71	74.00	-22.29	Peak

6dB Emission Bandwidth

Test Information:

Sample No.:	2YH7-1	Test Date:	2025/02/22~2025/02/24
Test Site:	RF	Test Mode:	Transmitting
Tester:	Cheeb Huang	Test Result:	Pass

Environmental Conditions:

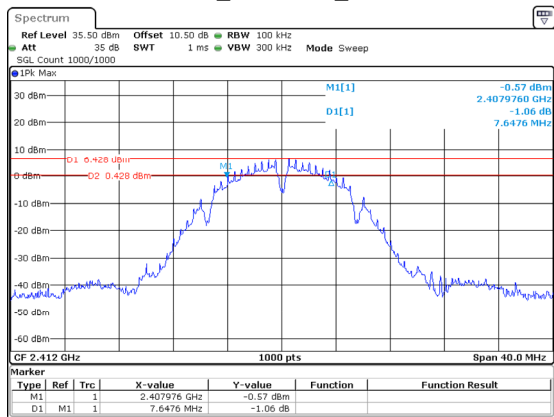
Temperature: (°C)	24.1	Relative Humidity: (%)	39	ATM Pressure: (kPa)	101.5
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Test Data:

For module: YL43752

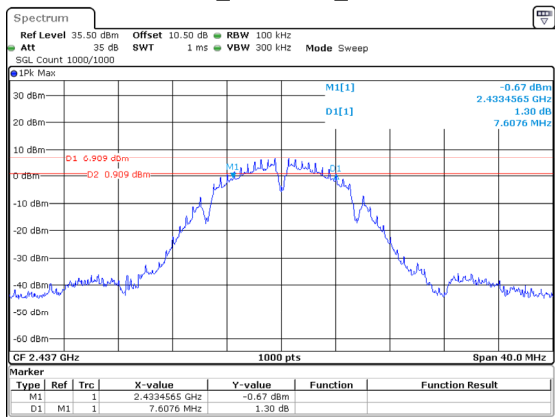
Mode	Antenna	Test Frequency (MHz)	Result (MHz)	Limit (MHz)	Verdict
802.11b	Chain 0	2412	7.648	≥ 0.5	Pass
		2437	7.608	≥ 0.5	Pass
		2462	8.128	≥ 0.5	Pass
	Chain 1	2412	7.648	≥ 0.5	Pass
		2437	7.648	≥ 0.5	Pass
		2462	7.608	≥ 0.5	Pass
802.11g	Chain 0	2412	16.416	≥ 0.5	Pass
		2437	16.416	≥ 0.5	Pass
		2462	16.416	≥ 0.5	Pass
	Chain 1	2412	16.416	≥ 0.5	Pass
		2437	16.416	≥ 0.5	Pass
		2462	16.416	≥ 0.5	Pass
802.11n20	Chain 0	2412	17.658	≥ 0.5	Pass
		2437	17.658	≥ 0.5	Pass
		2462	17.658	≥ 0.5	Pass
	Chain 1	2412	17.658	≥ 0.5	Pass
		2437	17.658	≥ 0.5	Pass
		2462	17.698	≥ 0.5	Pass
802.11ax20_RU_Full	Chain 0	2412	18.498	≥ 0.5	Pass
		2437	18.739	≥ 0.5	Pass
		2462	18.739	≥ 0.5	Pass
	Chain 1	2412	18.699	≥ 0.5	Pass
		2437	18.819	≥ 0.5	Pass
		2462	18.899	≥ 0.5	Pass

802.11b_2412MHz_Chain 0



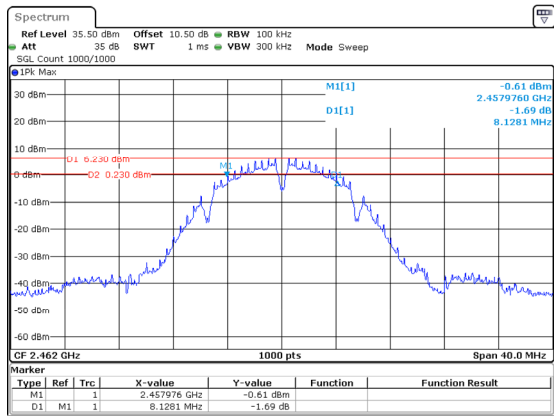
ProjectNo.:2501Q31691E-RF Tester:Cheeb Huang
 Date: 22.FEB.2025 15:34:42

802.11b_2437MHz_Chain 0



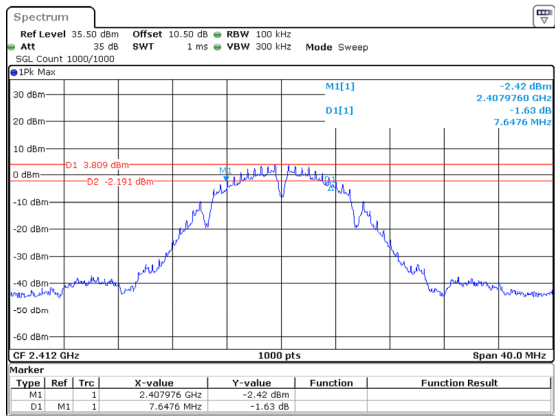
ProjectNo.:2501Q31691E-RF Tester:Cheeb Huang
 Date: 22.FEB.2025 15:36:09

802.11b_2462MHz_Chain 0



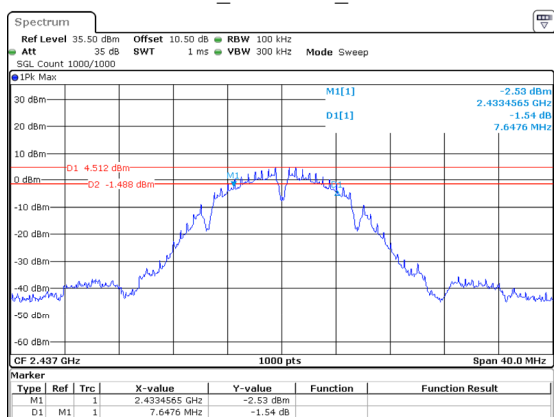
ProjectNo.:2501Q31691E-RF Tester:Cheeb Huang
 Date: 22.FEB.2025 15:37:37

802.11b_2412MHz_Chain 1



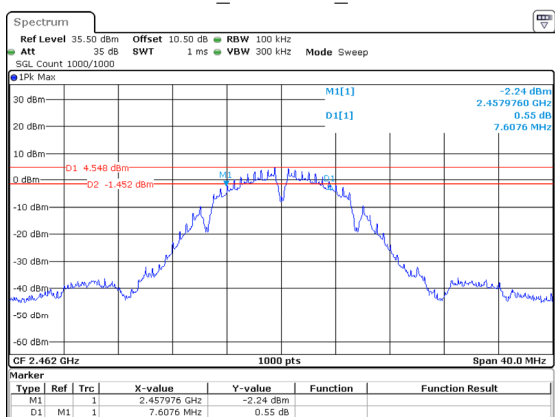
ProjectNo.:2501Q31691E-RF Tester:Cheeb Huang
 Date: 22.FEB.2025 14:36:32

802.11b_2437MHz_Chain 1



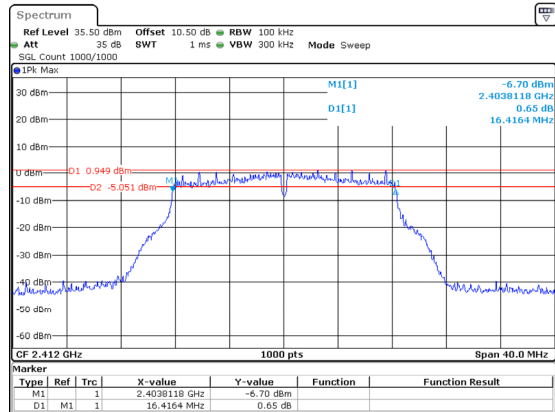
ProjectNo.:2501Q31691E-RF Tester:Cheeb Huang
 Date: 22.FEB.2025 14:48:06

802.11b_2462MHz_Chain 1



ProjectNo.:2501Q31691E-RF Tester:Cheeb Huang
 Date: 22.FEB.2025 15:00:41

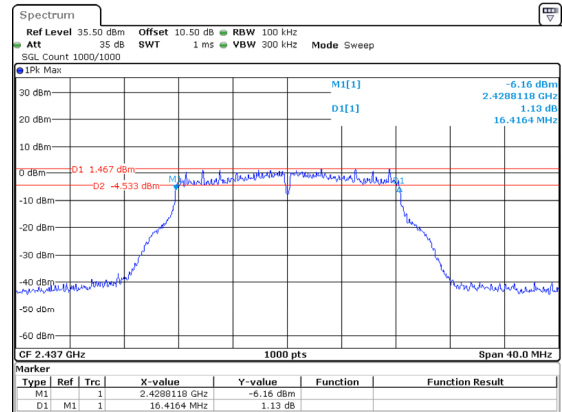
802.11g_2412MHz_Chain 0



ProjectNo.:2501Q31691E-RF Tester:Cheeb Huang

Date: 22.FEB.2025 15:40:06

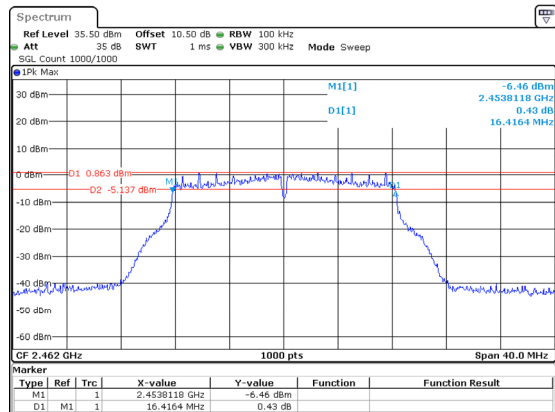
802.11g_2437MHz_Chain 0



ProjectNo.:2501Q31691E-RF Tester:Cheeb Huang

Date: 22.FEB.2025 15:45:01

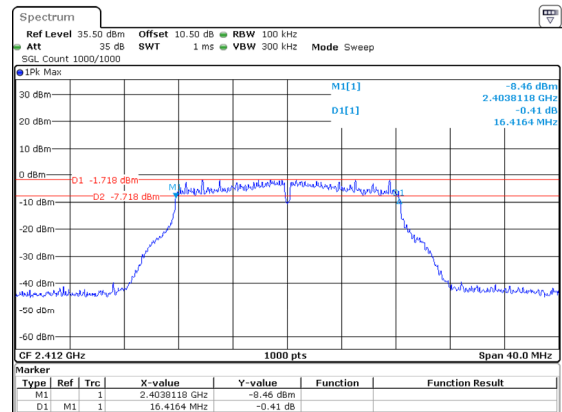
802.11g_2462MHz_Chain 0



ProjectNo.:2501Q31691E-RF Tester:Cheeb Huang

Date: 22.FEB.2025 15:49:11

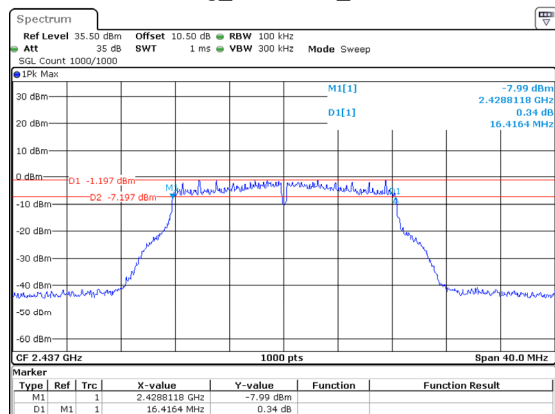
802.11g_2412MHz_Chain 1



ProjectNo.:2501Q31691E-RF Tester:Cheeb Huang

Date: 22.FEB.2025 15:02:38

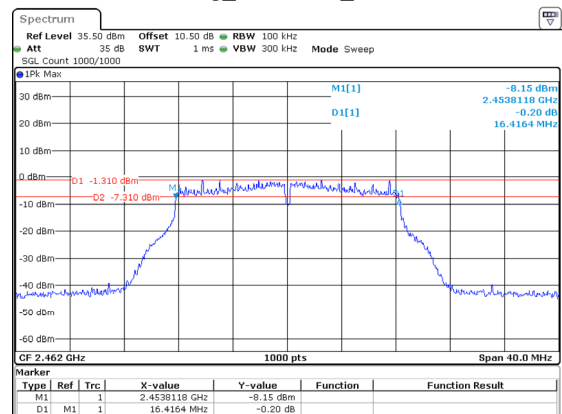
802.11g_2437MHz_Chain 1



ProjectNo.:2501Q31691E-RF Tester:Cheeb Huang

Date: 22.FEB.2025 15:04:48

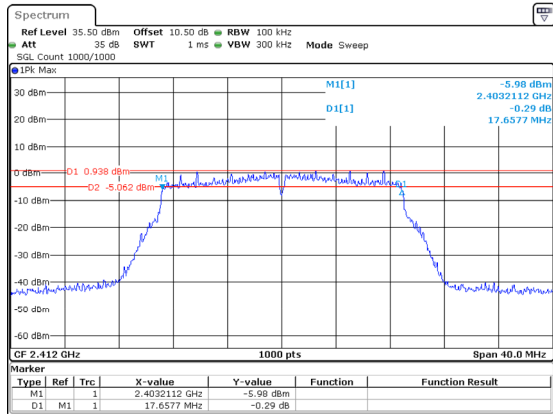
802.11g_2462MHz_Chain 1



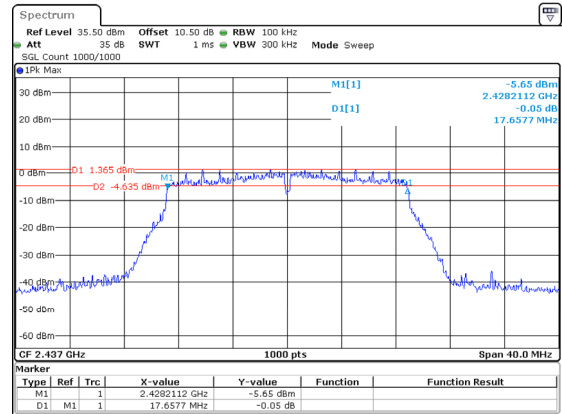
ProjectNo.:2501Q31691E-RF Tester:Cheeb Huang

Date: 22.FEB.2025 15:07:48

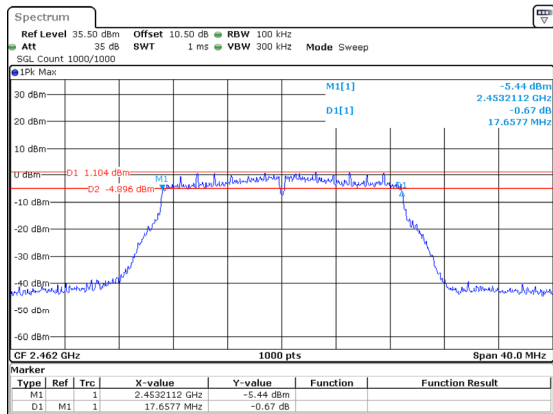
802.11n20_2412MHz_Chain 0



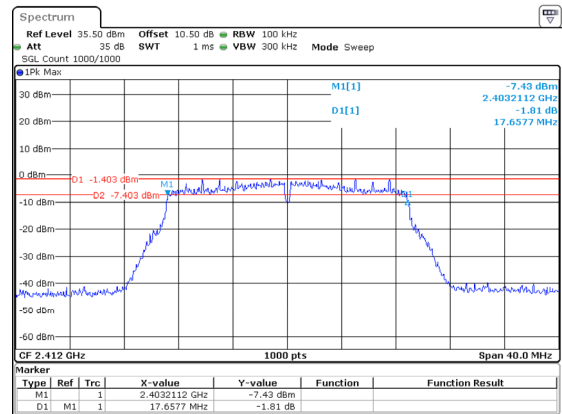
802.11n20_2437MHz_Chain 0



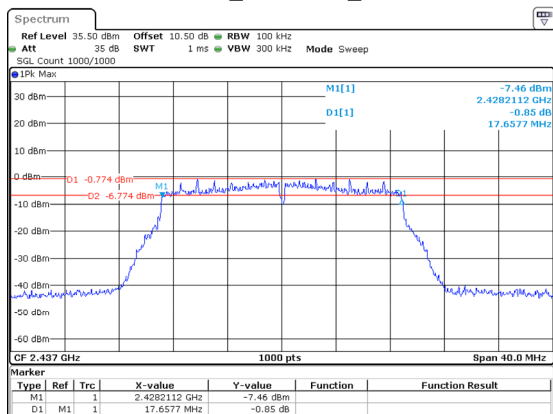
802.11n20_2462MHz_Chain 0



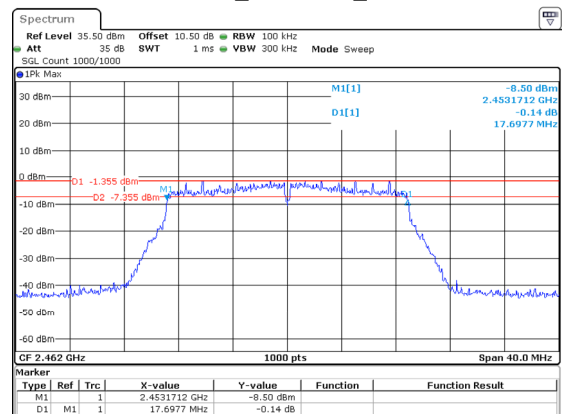
802.11n20_2412MHz_Chain 1



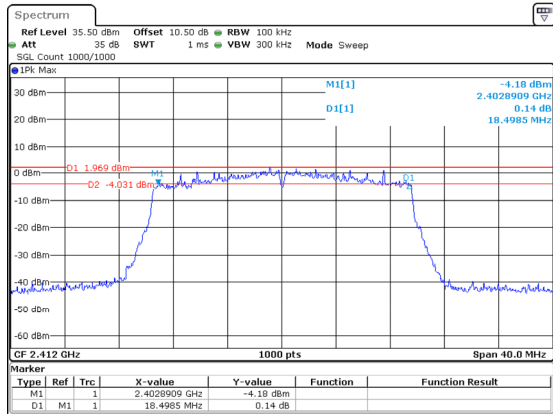
802.11n20_2437MHz_Chain 1



802.11n20_2462MHz_Chain 1

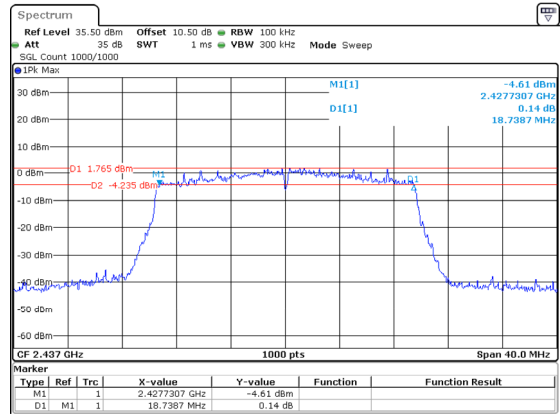


802.11ax20_2412MHz_RU_Full_Chain 0



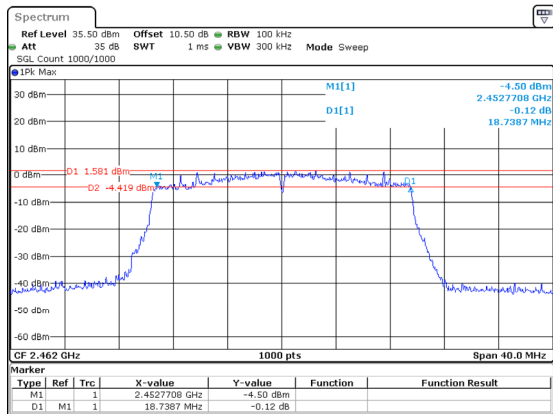
ProjectNo.:2501Q31691E-RF Tester:Cheeb Huang
Date: 22.FEB.2025 15:58:21

802.11ax20_2437MHz_RU_Full_Chain 0



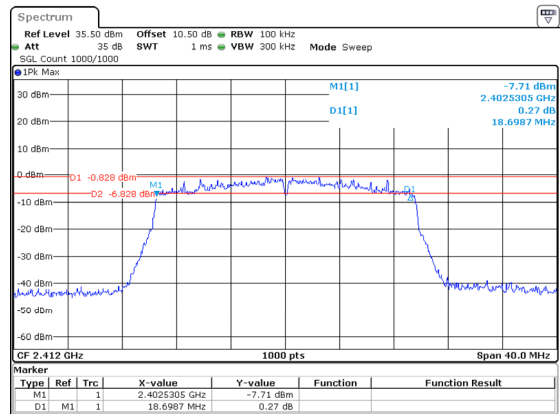
ProjectNo.:2501Q31691E-RF Tester:Cheeb Huang
Date: 22.FEB.2025 16:00:32

802.11ax20_2462MHz_RU_Full_Chain 0



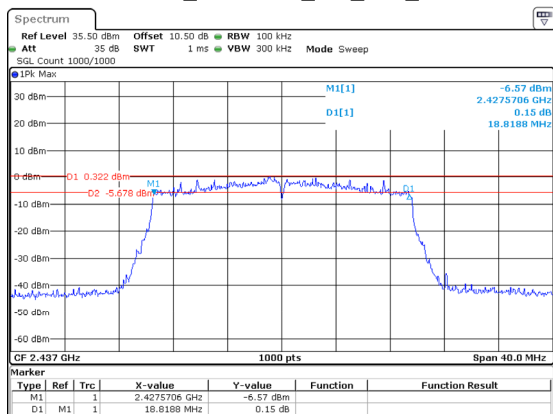
ProjectNo.:2501Q31691E-RF Tester:Cheeb Huang
Date: 22.FEB.2025 16:02:40

802.11ax20_2412MHz_RU_Full_Chain 1



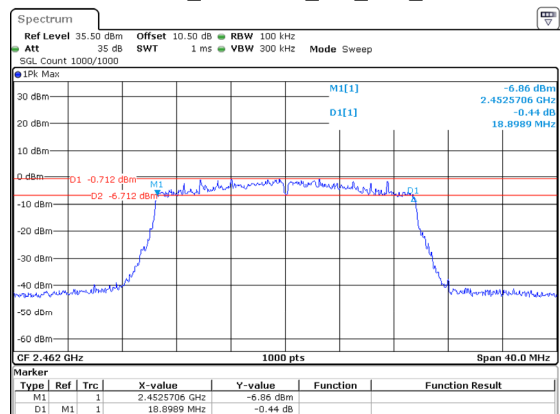
ProjectNo.:2501Q31691E-RF Tester:Cheeb Huang
Date: 22.FEB.2025 15:16:04

802.11ax20_2437MHz_RU_Full_Chain 1



ProjectNo.:2501Q31691E-RF Tester:Cheeb Huang
Date: 22.FEB.2025 15:18:47

802.11ax20_2462MHz_RU_Full_Chain 1

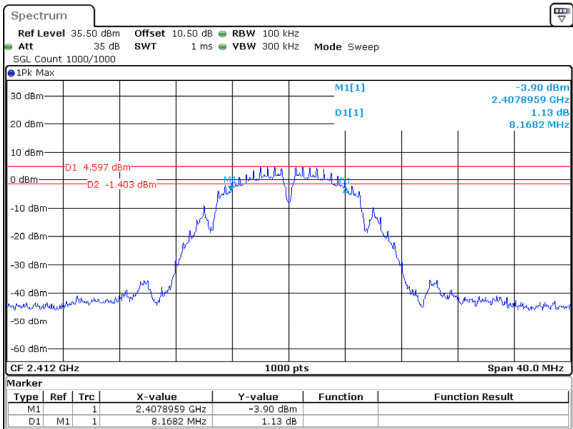


ProjectNo.:2501Q31691E-RF Tester:Cheeb Huang
Date: 22.FEB.2025 15:20:48

For module YL43456

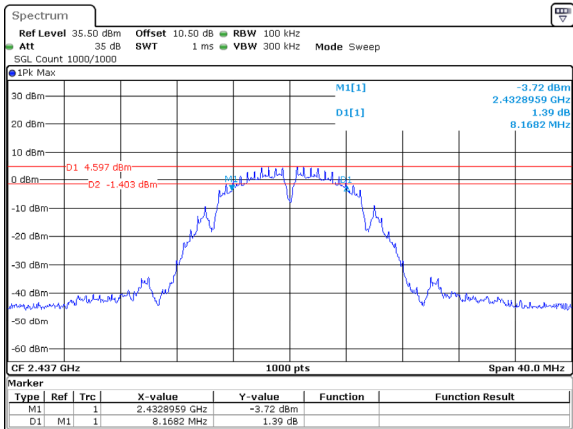
Mode	Test Frequency (MHz)	Result (MHz)	Limit (MHz)	Verdict
802.11b	2412	8.168	≥ 0.5	Pass
	2437	8.168	≥ 0.5	Pass
	2462	8.168	≥ 0.5	Pass
802.11g	2412	15.255	≥ 0.5	Pass
	2437	16.376	≥ 0.5	Pass
	2462	15.816	≥ 0.5	Pass
802.11n20	2412	15.255	≥ 0.5	Pass
	2437	17.578	≥ 0.5	Pass
	2462	15.255	≥ 0.5	Pass

802.11b_2412MHz



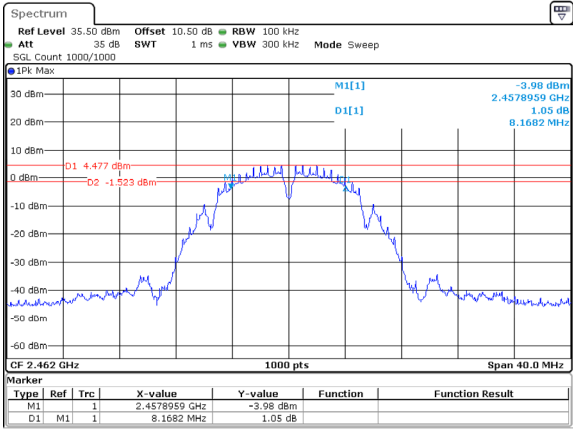
ProjectNo.:2501Q31691E-RF-1 Tester:Cheeb Huang
 Date: 24.FEB.2025 14:32:31

802.11b_2437MHz



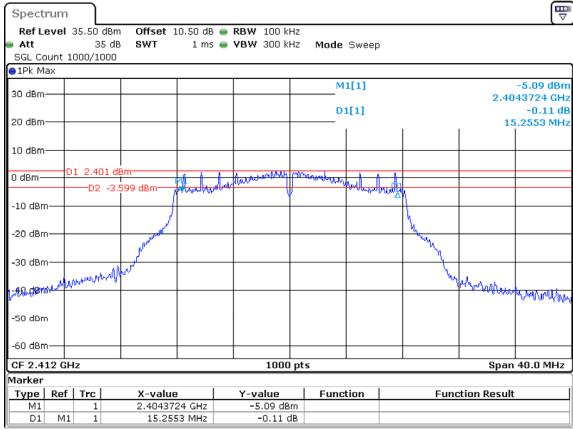
ProjectNo.:2501Q31691E-RF-1 Tester:Cheeb Huang
 Date: 24.FEB.2025 14:35:13

802.11b_2462MHz



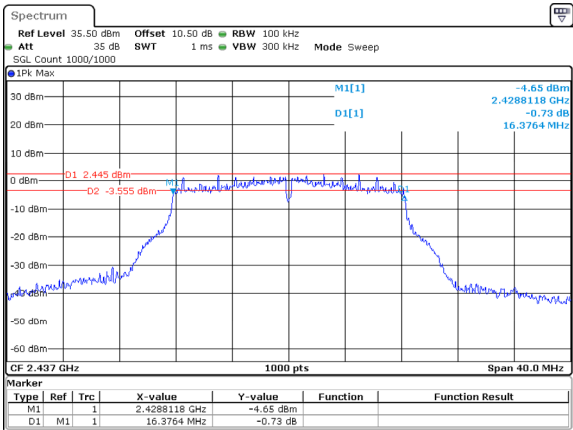
ProjectNo.:2501Q31691E-RF-1 Tester:Cheeb Huang
 Date: 24.FEB.2025 14:41:27

802.11g_2412MHz



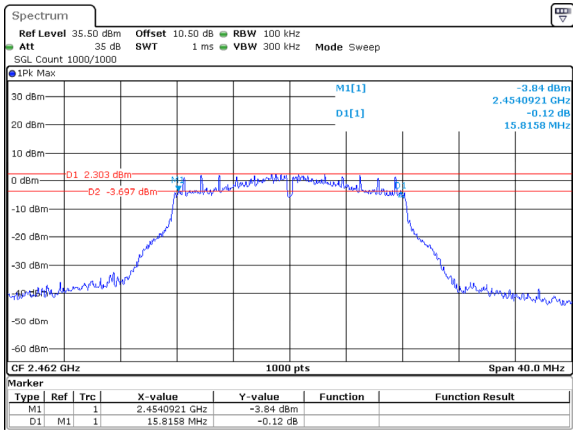
ProjectNo.:2501Q31691E-RF-1 Tester:Cheeb Huang
 Date: 24.FEB.2025 14:45:23

802.11g_2437MHz



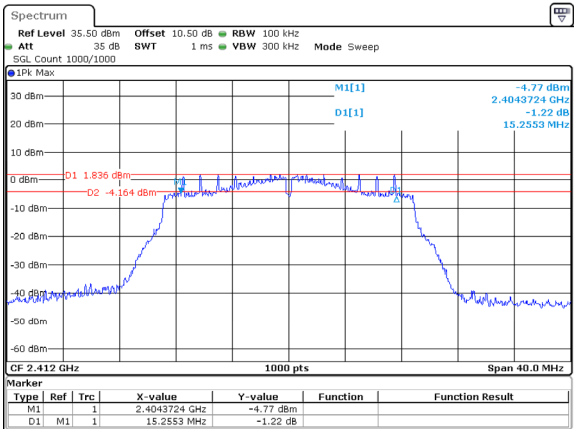
ProjectNo.:2501Q31691E-RF-1 Tester:Cheeb Huang
 Date: 24.FEB.2025 14:48:41

802.11g_2462MHz



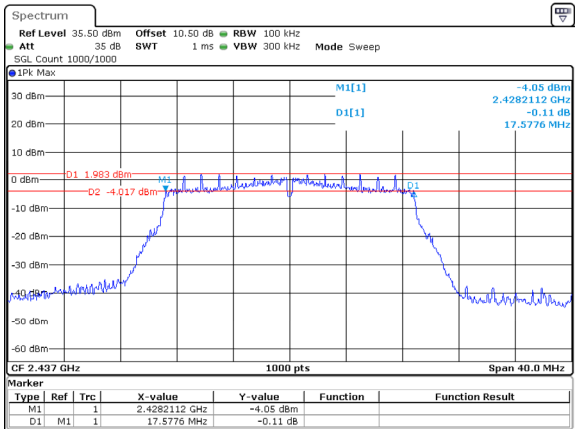
ProjectNo.:2501Q31691E-RF-1 Tester:Cheeb Huang
 Date: 24.FEB.2025 14:51:46

802.11n20_2412MHz



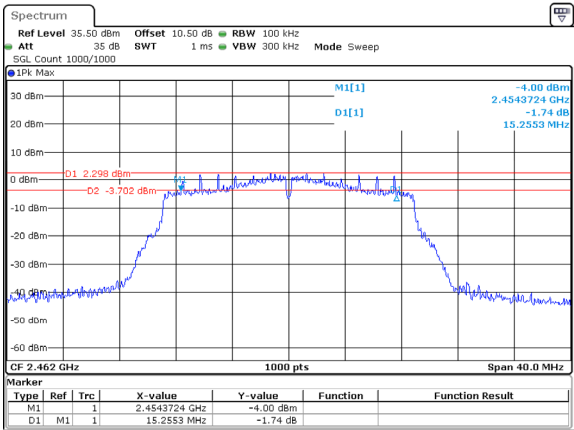
ProjectNo.:2501Q31691E-RF-1 Tester:Cheeb Huang
Date: 24.FEB.2025 14:54:59

802.11n20_2437MHz



ProjectNo.:2501Q31691E-RF-1 Tester:Cheeb Huang
Date: 24.FEB.2025 14:59:16

802.11n20_2462MHz



ProjectNo.:2501Q31691E-RF-1 Tester:Cheeb Huang
Date: 24.FEB.2025 15:04:49

99% Occupied Bandwidth**Test Information:**

Sample No.:	2YH7-1	Test Date:	2025/02/22~2025/02/24
Test Site:	RF	Test Mode:	Transmitting
Tester:	Cheeb Huang	Test Result:	Pass

Environmental Conditions:

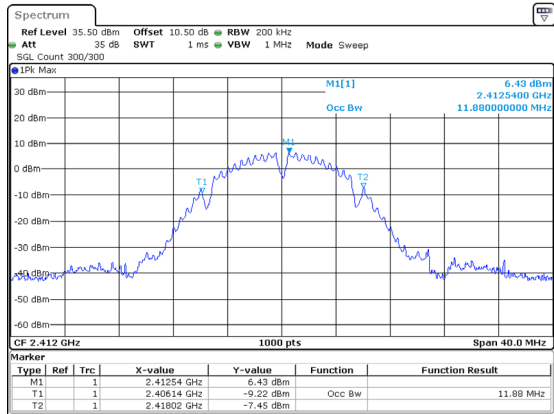
Temperature: (°C)	24.1	Relative Humidity: (%)	39	ATM Pressure: (kPa)	101.5
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Test Data:

For module: YL43752

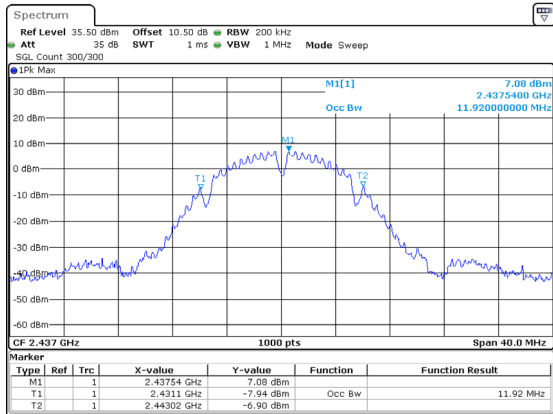
Mode	Antenna	Test Frequency (MHz)	99% OBW (MHz)
802.11b	Chain 0	2412	11.880
		2437	11.920
		2462	11.920
	Chain 1	2412	12.040
		2437	12.080
		2462	12.040
802.11g	Chain 0	2412	16.600
		2437	16.560
		2462	16.600
	Chain 1	2412	16.560
		2437	16.600
		2462	16.560
802.11n20	Chain 0	2412	17.720
		2437	17.800
		2462	17.760
	Chain 1	2412	17.720
		2437	17.720
		2462	17.760
802.11ax20_RU_Full	Chain 0	2412	18.880
		2437	18.880
		2462	18.920
	Chain 1	2412	18.920
		2437	18.840
		2462	18.880

802.11b_2412MHz_Chain 0



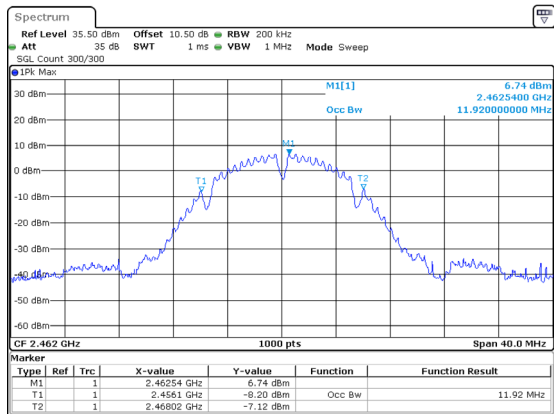
ProjectNo.:2501Q31691E-RF Tester:Cheeb Huang
Date: 22.FEB.2025 15:34:54

802.11b_2437MHz_Chain 0



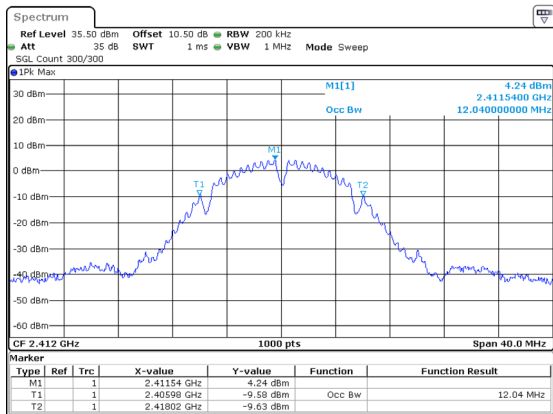
ProjectNo.:2501Q31691E-RF Tester:Cheeb Huang
Date: 22.FEB.2025 15:36:20

802.11b_2462MHz_Chain 0



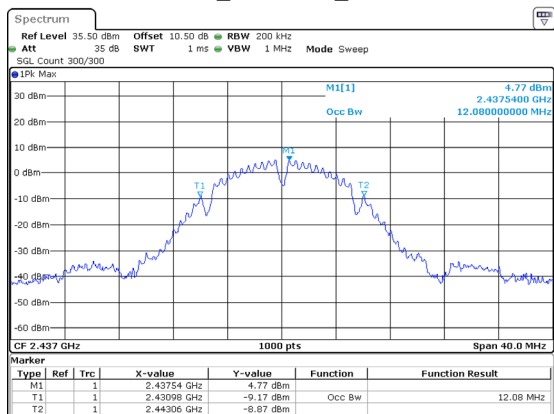
ProjectNo.:2501Q31691E-RF Tester:Cheeb Huang
Date: 22.FEB.2025 15:37:49

802.11b_2412MHz_Chain 1



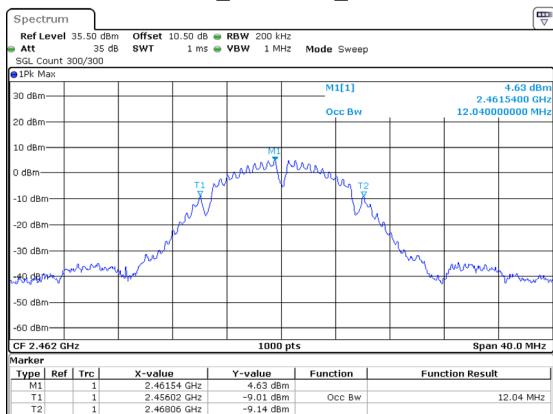
ProjectNo.:2501Q31691E-RF Tester:Cheeb Huang
Date: 22.FEB.2025 14:46:44

802.11b_2437MHz_Chain 1



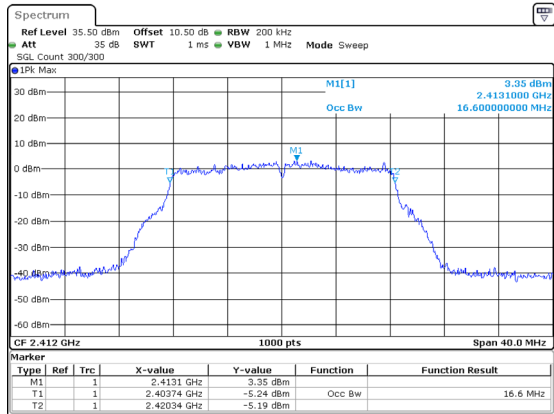
ProjectNo.:2501Q31691E-RF Tester:Cheeb Huang
Date: 22.FEB.2025 14:48:20

802.11b_2462MHz_Chain 1



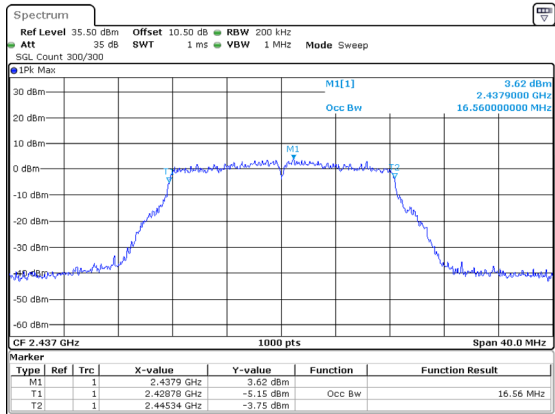
ProjectNo.:2501Q31691E-RF Tester:Cheeb Huang
Date: 22.FEB.2025 15:00:52

802.11g_2412MHz_Chain 0



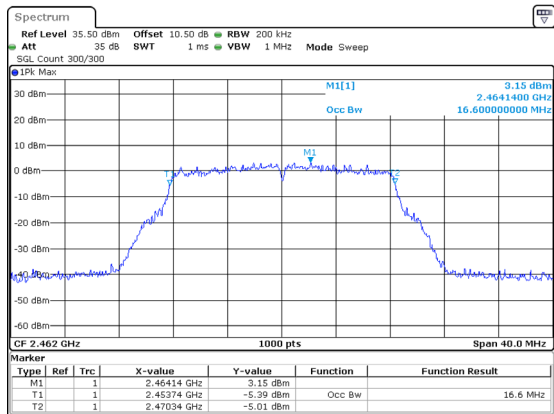
ProjectNo.:2501Q31691E-RF Tester:Cheeb Huang
Date: 22.FEB.2025 15:40:19

802.11g_2437MHz_Chain 0



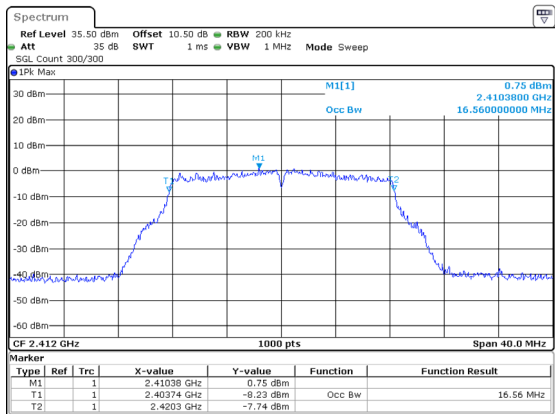
ProjectNo.:2501Q31691E-RF Tester:Cheeb Huang
Date: 22.FEB.2025 15:45:12

802.11g_2462MHz_Chain 0



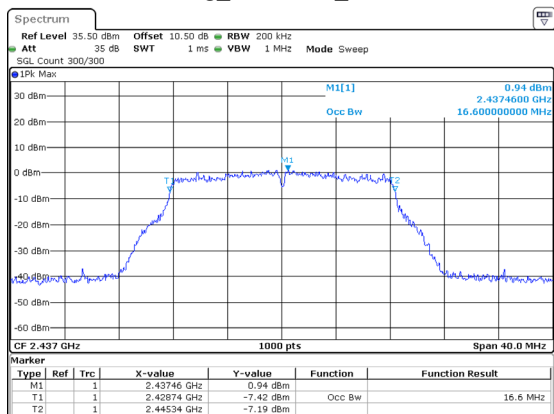
ProjectNo.:2501Q31691E-RF Tester:Cheeb Huang
Date: 22.FEB.2025 15:40:22

802.11g_2412MHz_Chain 1



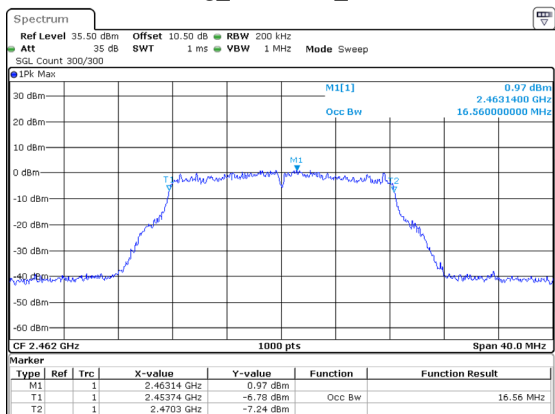
ProjectNo.:2501Q31691E-RF Tester:Cheeb Huang
Date: 22.FEB.2025 15:02:49

802.11g_2437MHz_Chain 1



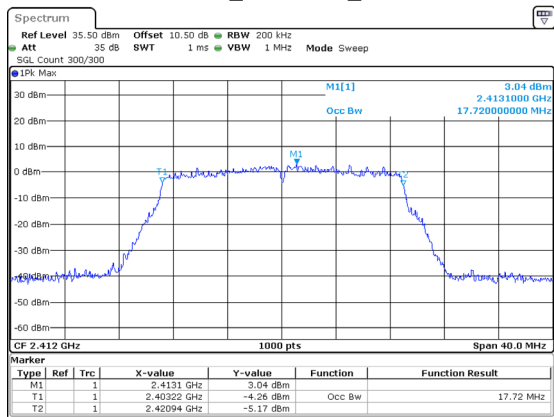
ProjectNo.:2501Q31691E-RF Tester:Cheeb Huang
Date: 22.FEB.2025 15:04:58

802.11g_2462MHz_Chain 1

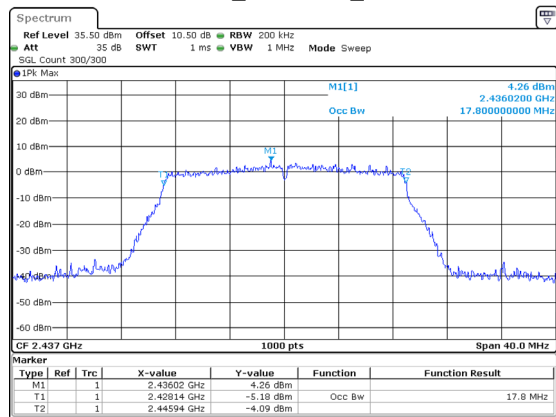


ProjectNo.:2501Q31691E-RF Tester:Cheeb Huang
Date: 22.FEB.2025 15:07:59

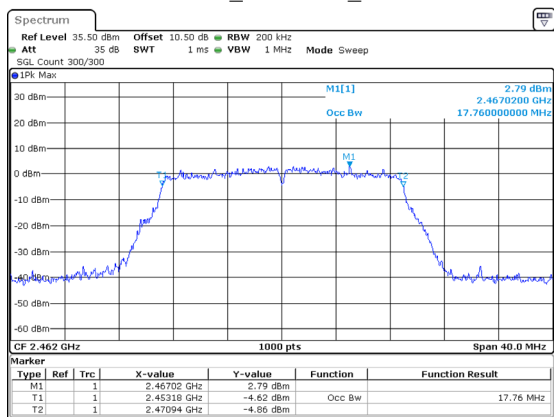
802.11n20_2412MHz_Chain 0



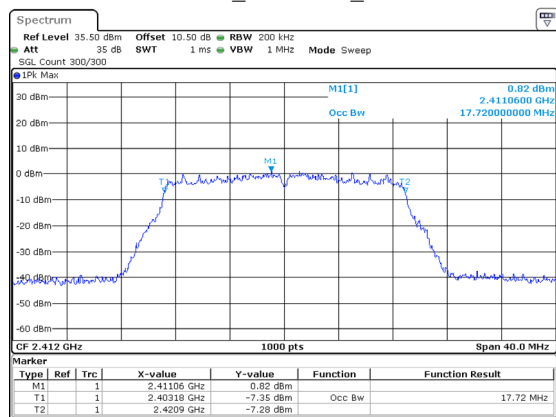
802.11n20_2437MHz_Chain 0



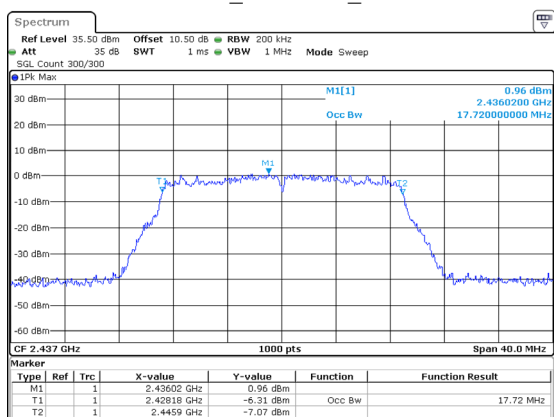
802.11n20_2462MHz_Chain 0



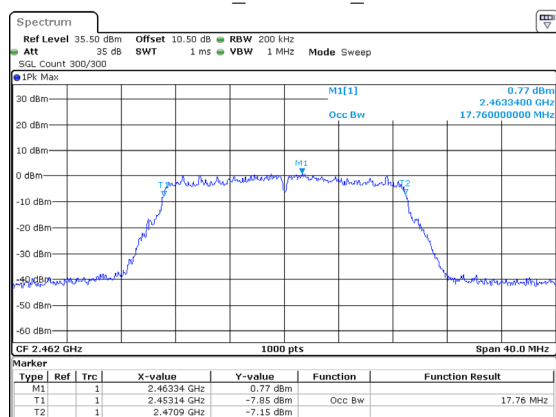
802.11n20_2412MHz_Chain 1



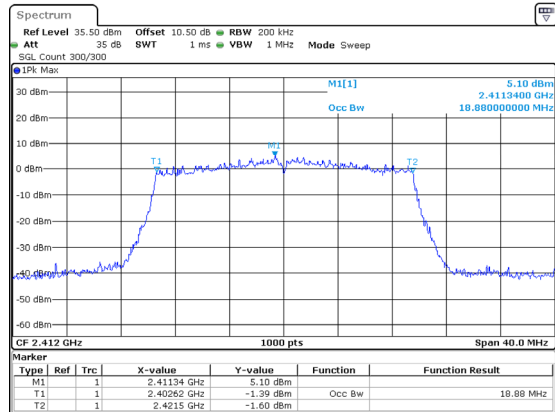
802.11n20_2437MHz_Chain 1



802.11n20_2462MHz_Chain 1



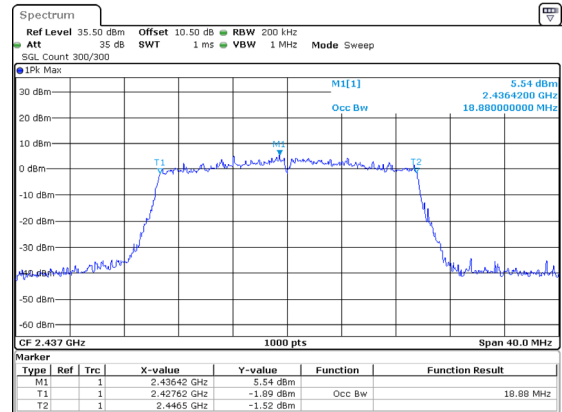
802.11ax20_2412MHz_RU_Full_Chain 0



ProjectNo.:2501Q31691E-RF Tester:Cheeb Huang

Date: 22.FEB.2025 15:58:34

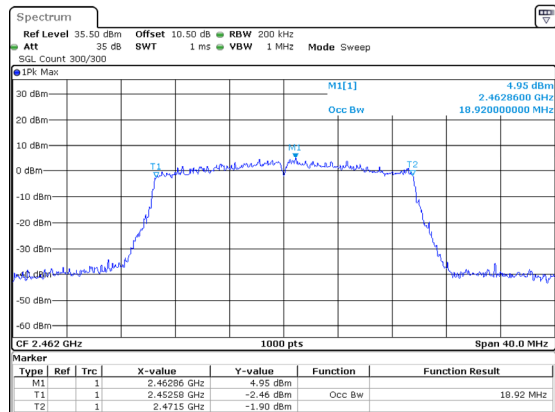
802.11ax20_2437MHz_RU_Full_Chain 0



ProjectNo.:2501Q31691E-RF Tester:Cheeb Huang

Date: 22.FEB.2025 16:00:43

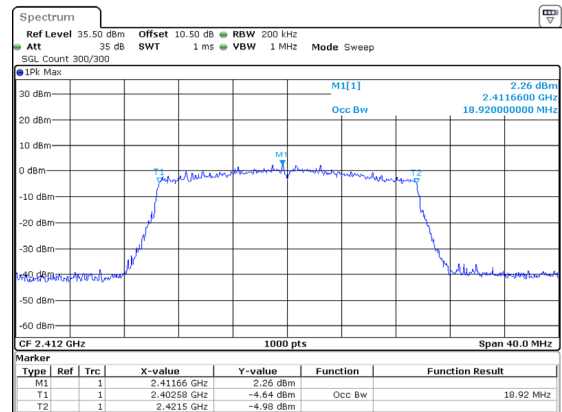
802.11ax20_2462MHz_RU_Full_Chain 0



ProjectNo.:2501Q31691E-RF Tester:Cheeb Huang

Date: 22.FEB.2025 15:02:52

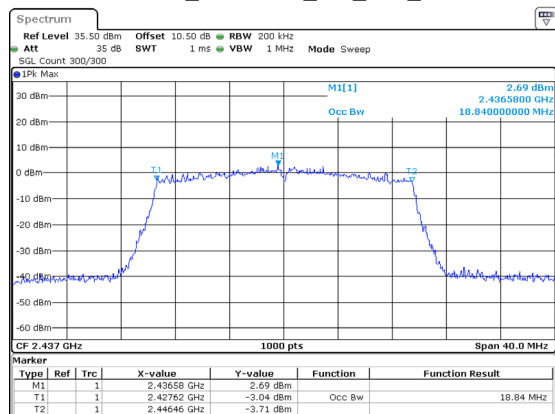
802.11ax20_2412MHz_RU_Full_Chain 1



ProjectNo.:2501Q31691E-RF Tester:Cheeb Huang

Date: 22.FEB.2025 15:16:16

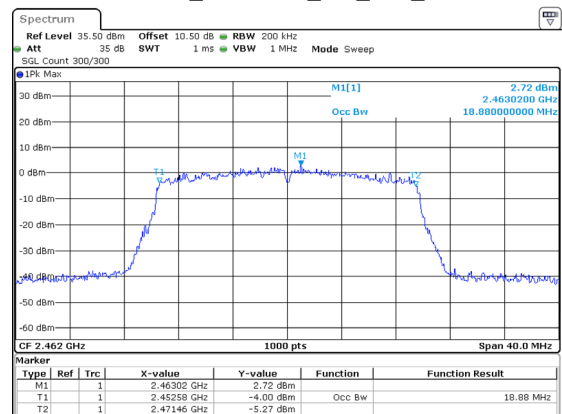
802.11ax20_2437MHz_RU_Full_Chain 1



ProjectNo.:2501Q31691E-RF Tester:Cheeb Huang

Date: 22.FEB.2025 15:18:57

802.11ax20_2462MHz_RU_Full_Chain 1



ProjectNo.:2501Q31691E-RF Tester:Cheeb Huang

Date: 22.FEB.2025 15:20:59