

TEST REPORT

Applicant: D-ROBOTICS HOLDING LIMITED

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Product Name: RDK X5 Module

FCC ID: 2BGUG-RDKX5M

Standard(s): 47 CFR Part 15, Subpart C(15.247)
ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to
C63.10a-2024*
KDB 558074 D01 15.247 Meas Guidance v05r02

Report Number: 2502U67463E-RF-00D

Report Date: 2025/10/16

The above device has been tested and found compliant with the requirement of the relevant standards by Bay Area Compliance Laboratories Corp. (Dongguan).

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
1.0	2502U67463E-RF-00D	Original Report	2025/10/16

1. GENERAL INFORMATION

1.1 Product Description for Equipment under Test (EUT)

EUT Name:	RDK X5 Module
EUT Model:	RDKX5MD108064
Multiple Model:	RDKX5MD102000, RDKX5MD102016, RDKX5MD102032, RDKX5MD102064, RDKX5MD104000, RDKX5MD104016, RDKX5MD104032, RDKX5MD104064, RDKX5MD108000, RDKX5MD108016, RDKX5MD108032
Operation Frequency:	2412-2462MHz (802.11b/g/n ht20/ax he20) 2422-2452MHz(802.11n ht40/ax he40)
Maximum Peak Output Power (Conducted):	22.43dBm
Modulation Type:	802.11b:DSSS-DBPSK, DQPSK, CCK 802.11g/n: OFDM-BPSK, QPSK, 16QAM, 64QAM 802.11ax: OFDMA-BPSK, QPSK, 16QAM, 64QAM,256QAM,1024QAM
Rated Input Voltage:	DC 5V
Serial Number:	For RF Conducted test:35O3-1(Model: RDKX5MD108064) For Radiated Spurious Emission Below 1G test: 35O3-7(Model:RDKX5MD104000) For Radiated Spurious Emission Above 1G test: 35O3-2(Model: RDKX5MD108064) For AC Line Conducted Emissions test: 35O3-13(Model: RDKX5MD108032)
EUT Received Date:	2025/6/30
EUT Received Status:	Good
Note: 1.The multiple models are electrically identical with the test model. Please refer to the declaration letter for more detail, which was provided by manufacturer. 2.Per BT report, test with Model RDKX5MD104000 was the worst for Radiated Spurious Emission Below 1G and test with Model RDKX5MD108032 was the worst for AC Line Conducted Emissions, so only performed it this report.	

1.2 Accessory Information

Accessory Description	Manufacturer	Model	Parameters
/	/	/	/

1.3 Antenna Information Detail ▲

Antenna Type	input impedance (Ohm)	Frequency Range (MHz)	Antenna Gain (dBi)
Chip	50	2400~2500	0.43
The design of compliance with §15.203:			
☒	Unit uses a permanently attached antenna.		
☐	Unit uses a unique coupling to the intentional radiator.		
☐	Unit was professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.		

1.4 Equipment Modifications

No modifications are made to the EUT during all test items.

2. SUMMARY OF TEST RESULTS

Standard(s) Section	Test Items	Result
§15.207(a)	AC Line Conducted Emissions	Compliant
§15.205, §15.209, §15.247(d)	Radiated Spurious Emissions	Compliant
§15.247 (a)(2)	Minimum 6 dB Bandwidth	Compliant
§15.247(b)(3)	Maximum Conducted Output Power	Compliant
§15.247(d)	Conducted Spurious Emission	Compliant
§15.247(e)	Power Spectral Density	Compliant
§15.203	Antenna Requirement	Compliant
Note 1: For AC line conducted emissions, the maximum peak output power mode and channel was tested. Note 2: For Radiated Spurious Emissions 9kHz~1GHz and 18~25GHz, the maximum peak output power mode and channel was tested.		

3. DESCRIPTION OF TEST CONFIGURATION

3.1 Operation Frequency Detail

For 802.11b/g/n ht20/ax he20:

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	/	/

For 802.11n ht40/ax he20:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
3	2422	7	2442
4	2427	8	2447
5	2432	9	2452
6	2437	/	/

Note: The above frequencies in bold were performed the test.

3.2 EUT Operation Condition

The EUT was configured for testing in Engineering Mode, which was provided by the manufacturer. The EUT configuration as below:

EUT Exercise Software:		MobaXterm_Portable_v23.6		
The software was provided by manufacturer. The maximum power was configured as below, that was provided by the manufacturer▲：				
Test Modes	Data Rate	Power Level Setting		
		Lowest Channel	Middle Channel	Highest Channel
802.11b	1Mbps	15	15	15
802.11g	6Mbps	15	15	15
802.11n ht20	MCS0	15	15	15
802.11n ht40	MCS0	15	15	15
802.11ax he20	MCS0	15	15	15
802.11ax he40	MCS0	15	15	15
Note:				
1.The above are the worst-case data rates, which are determined for each mode based upon investigations by measuring the average power and PSD across all data rates, bandwidths, and modulations.				
2. For 802.11ax mode, the device not support partial RU mode.				

3.3 Support Equipment List and Details

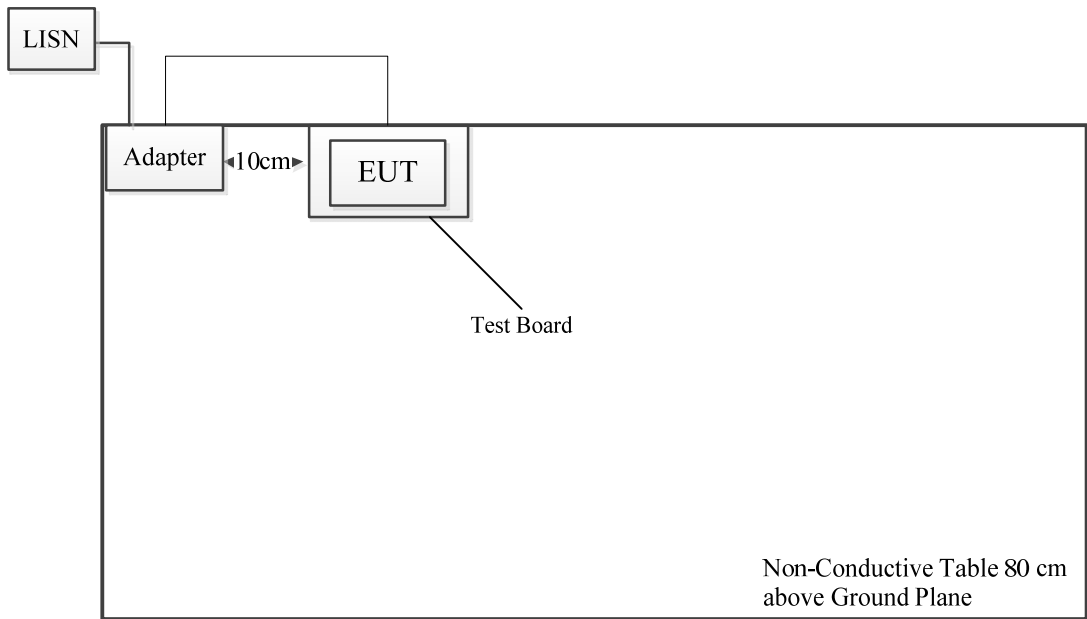
Manufacturer	Description	Model	Serial Number
Huntkey	Adapter	HKA01105021-XE	0D1805002143
D-ROBOTICS HOLDING LIMITED	Test Board	RDKX5 Module Carrier Board	Unknown

3.4 Support Cable List and Details

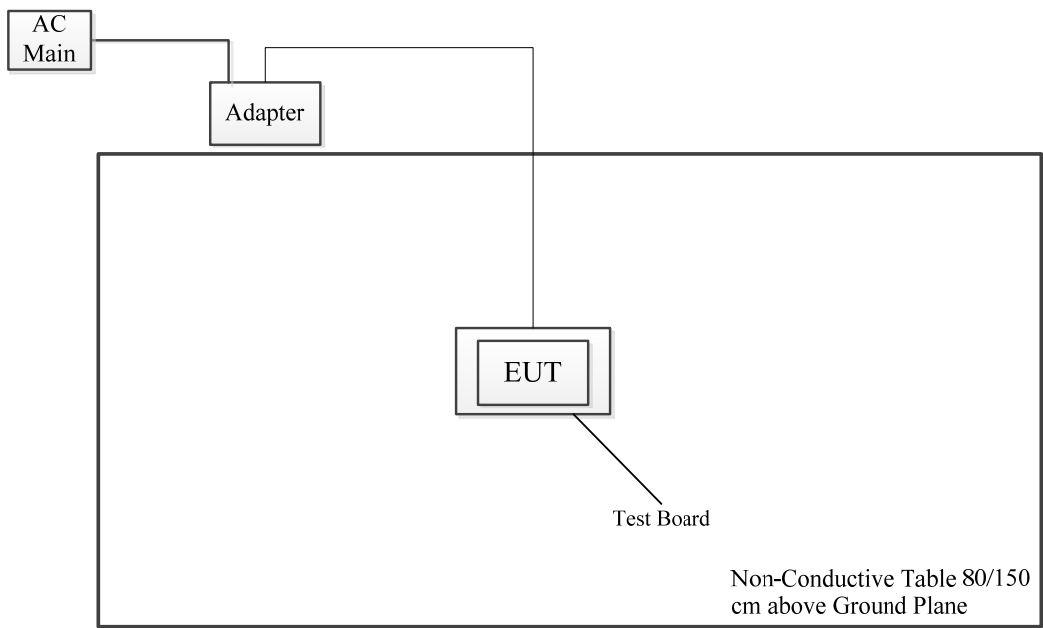
Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	To
DC Cable	NO	NO	1.5	Adapter	Test Board

3.5 Block Diagram of Test Setup

AC line conducted emissions:



Spurious Emissions:



3.6 Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Dongguan) to collect test data is located on the No.12, Pulong East 1st Road, Tangxia Town, Dongguan, Guangdong, 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. : 829273, the FCC Designation No. : CN5044.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0022.

3.7 Measurement Uncertainty

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

Parameter	Measurement Uncertainty
Occupied Channel Bandwidth	±5 %
RF output power, conducted	±0.61dB
Power Spectral Density, conducted	±0.61 dB
Unwanted Emissions, radiated	9kHz~30MHz: 3.3dB, 30MHz~200MHz: 4.55 dB, 200MHz~1GHz: 5.92 dB, 1GHz~6GHz: 4.98 dB, 6GHz~18GHz: 5.89 dB, 18GHz~26.5GHz: 5.47 dB, 26.5GHz~40GHz: 5.63 dB
Unwanted Emissions, conducted	±2.47 dB
Temperature	±1 °C
Humidity	±5%
DC and low frequency voltages	±0.4%
Duty Cycle	1%
AC Power Lines Conducted Emission	3.11 dB (150 kHz to 30 MHz)

4. REQUIREMENTS AND TEST PROCEDURES

4.1 AC Line Conducted Emissions

4.1.1 Applicable Standard

FCC§15.207(a).

(a) Except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN).

Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

Frequency of emission (MHz)	Conducted limit (dB μ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

(b) The limit shown in paragraph (a) of this section shall not apply to carrier current systems operating as intentional radiators on frequencies below 30 MHz. In lieu thereof, these carrier current systems shall be subject to the following standards:

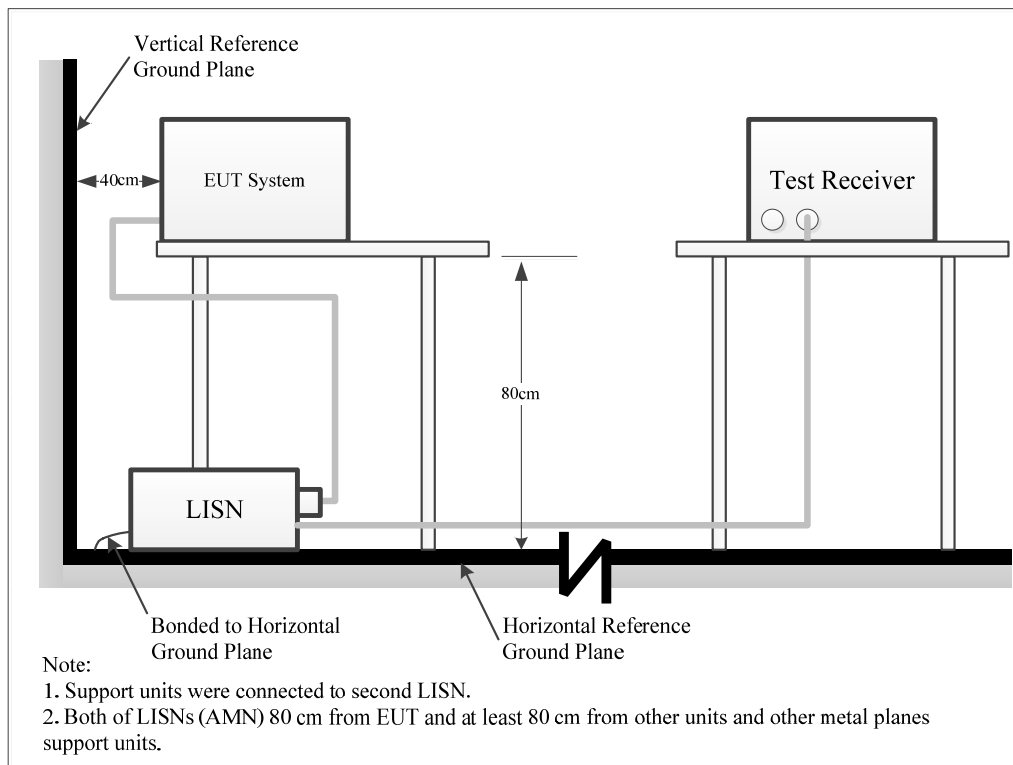
(1) For carrier current system containing their fundamental emission within the frequency band 535-1705 kHz and intended to be received using a standard AM broadcast receiver: no limit on conducted emissions.

(2) For all other carrier current systems: 1000 μ V within the frequency band 535-1705 kHz, as measured using a 50 μ H/50 ohms LISN.

(3) Carrier current systems operating below 30 MHz are also subject to the radiated emission limits in §15.205, §15.209, §15.221, §15.223, or §15.227, as appropriate.

(c) Measurements to demonstrate compliance with the conducted limits are not required for devices which only employ battery power for operation and which do not operate from the AC power lines or contain provisions for operation while connected to the AC power lines. Devices that include, or make provisions for, the use of battery chargers which permit operating while charging, AC adapters or battery eliminators or that connect to the AC power lines indirectly, obtaining their power through another device which is connected to the AC power lines, shall be tested to demonstrate compliance with the conducted limits.

4.1.2 EUT Setup



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

The spacing between the peripherals was 10cm.

The adapter or EUT was connected to the main LISN with a 120 V/60 Hz AC power source.

4.1.3 EMI Test Receiver Setup

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

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

4.1.4 Test Procedure

The frequency and amplitude of the six highest ac power-line conducted emissions relative to the limit, measured over all the current-carrying conductors of the EUT power cords, and the operating frequency or frequency to which the EUT is tuned (if appropriate), should be reported, unless such emissions are more than 20 dB below the limit. AC power-line conducted emissions measurements are to be separately carried out only on each of the phase (“hot”) line(s) and (if used) on the neutral line(s), but not on the ground[protective earth] line(s). If less than six emission frequencies are within 20 dB of the limit, then the noise level of the measuring instrument at representative frequencies should be reported. The specific conductor of the power-line cord for each of the reported emissions should be identified. Measure the six highest emissions with respect to the limit on each current-carrying conductor of each power cord associated with the EUT (but not the power cords of associated or peripheral equipment that are part of the test configuration). Then, report the six highest emissions with respect to the limit from among all the measurements identifying the frequency and specific current-carrying conductor identified with the emission. The six highest emissions should be reported for each of the current-carrying conductors, or the six highest emissions may be reported over all the current-carrying conductors.

4.1.5 Corrected Amplitude & Margin Calculation

The basic equation is as follows:

Result = Reading + Factor

Factor=attenuation caused by cable loss + voltage division factor of AMN

The “**Margin**” column of the following data tables indicates the degree of compliance within the applicable limit. The equation for margin calculation is as follows:

Margin = Limit – Result

4.1.6 Test Result

Please refer to section 5.1.

4.2 Radiation Spurious Emissions

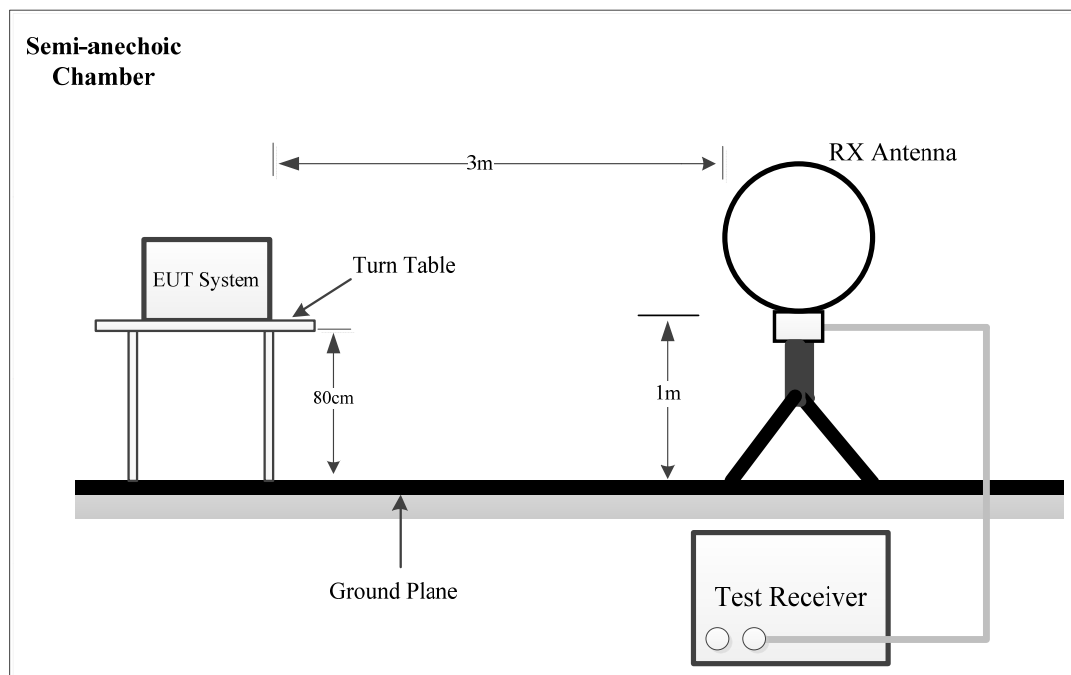
4.2.1 Applicable Standard

FCC §15.247 (d);

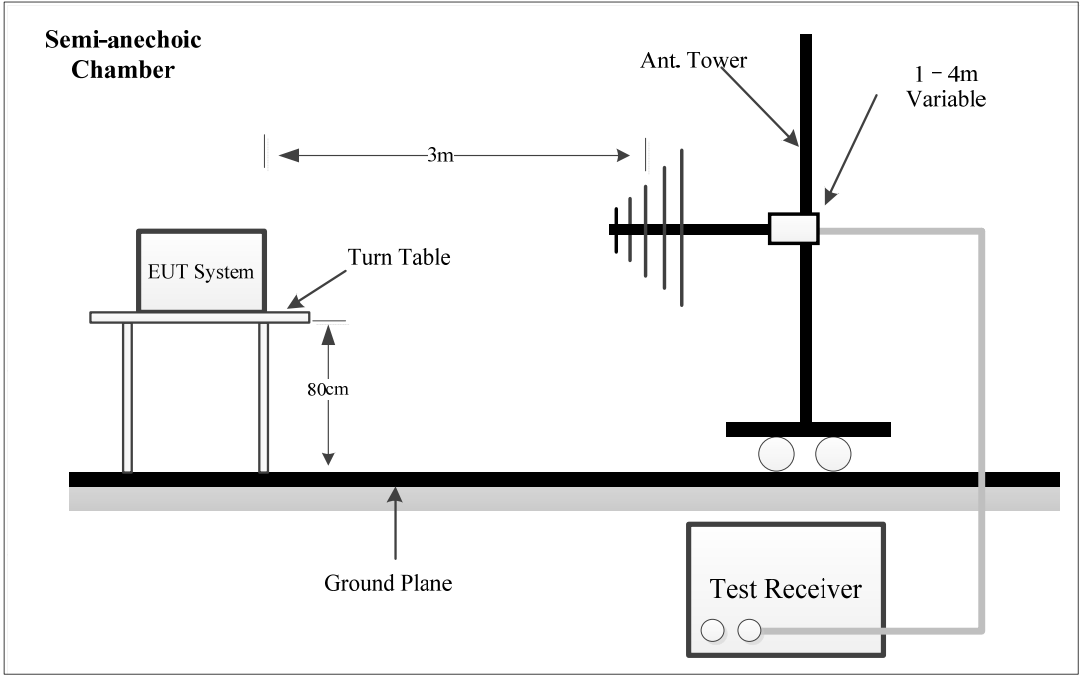
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the 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)).

4.2.2 EUT Setup

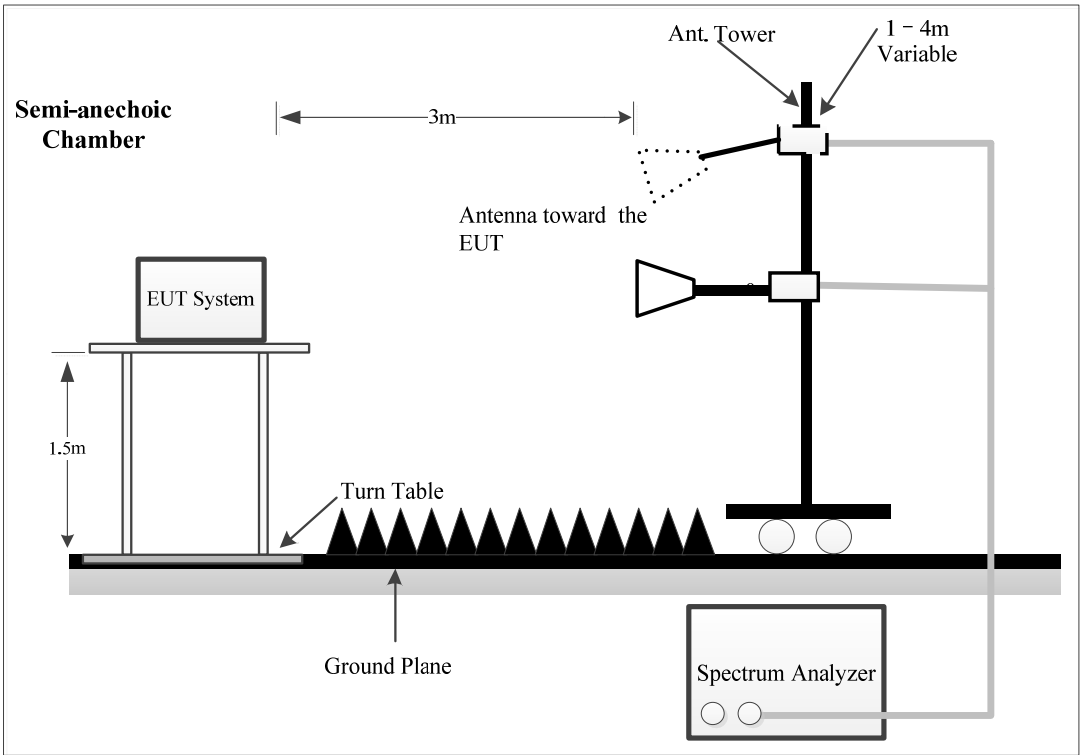
9kHz~30MHz:



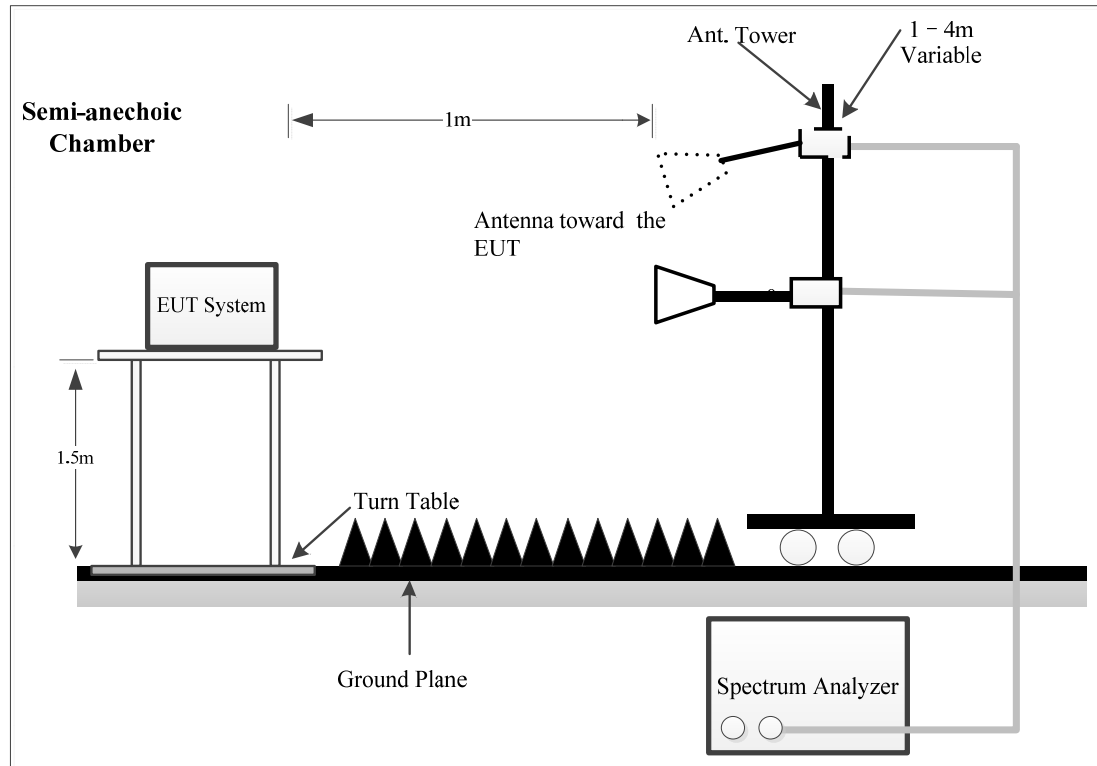
30MHz~1GHz:



1-18GHz:



18-25GHz:



The radiated emissions were performed in the semi-anechoic chamber, using the setup accordance with the ANSI C63.10-2020. The specification used was the FCC 15.209, and FCC 15.247 limits.

For 9kHz-30MHz test, the lowest height of the magnetic antenna shall be 1 m above the ground and three antenna orientations (parallel, perpendicular, and ground-parallel) shall be measured.

4.2.3 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:

9kHz-1000MHz:

Frequency Range	Measurement	RBW	Video B/W	IF B/W	Detector
9 kHz – 150 kHz	QP/AV	200 Hz	1 kHz	200 Hz	QP/AV
150 kHz – 30 MHz	QP/AV	9 kHz	30 kHz	9 kHz	QP/AV
30MHz – 1000 MHz	PK	120 kHz	500 kHz	/	PK
	QP	/	/	120kHz	QP

1GHz- 25GHz:

Pre-scan:

Frequency Range	Measurement	RBW	Video B/W	Detector
Above 1 GHz	Peak	1MHz	3 MHz	PK
	AV	1MHz	5kHz	PK

Final measurement for emission identified during the pre-scan:

Measurement	Detector	Duty cycle	RBW	Video B/W
PK	PK	Any	1MHz	3 MHz
Ave.	PK	>98%	1MHz	10 Hz
		<98%	1MHz	$\geq 1/T$

Note: T is minimum transmission duration

4.2.4 Test Procedure

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

Data was recorded in Quasi-peak detection mode for frequency range of 9 kHz -1 GHz, except 9-90 kHz, 110-490 kHz, employing an average detector, peak and Average detection modes for frequencies above 1 GHz.

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

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

For Radiated 18-25GHz test, which was performed at 1.0 m distance, according to C63.10, the test result shall be extrapolated to the specified distance using an extrapolation Factor of 20dB/decade from 3m to 1.0m
Distance extrapolation Factor = $20 \log (\text{specific distance [3m]}/\text{test distance [1.0m]})$ dB= 9.54 dB

4.2.5 Corrected Result& Margin Calculation

$$E_{Log} = 20 \times \log_{10}(E_{Linear})$$

E_{Linear} is the field strength of the emission, in $\mu\text{V/m}$

E_{Log} is the field strength of the emission, in dB $\mu\text{V/m}$

For 9kHz-30MHz test, test distance is 3m, extrapolation limit shall be calculated using Equation:

$$E_{\text{limit-measure}} = E_{\text{limit-Standard}} + 40 \times \log_{10} (d_{\text{standard}}/d_{\text{measure}})$$

The basic equation except 18-25GHz test is as follows:

Factor = Antenna Factor + Cable Loss- Amplifier Gain

For Radiated 18-25GHz test:

Factor = Antenna Factor + Cable Loss- Distance extrapolation Factor

Result = Reading + Factor

The “**Margin**” column of the following data tables indicates the degree of compliance within the applicable limit. The equation for margin calculation is as follows:

Margin = Limit – Result

4.2.6 Test Result

Please refer to section 5.2.

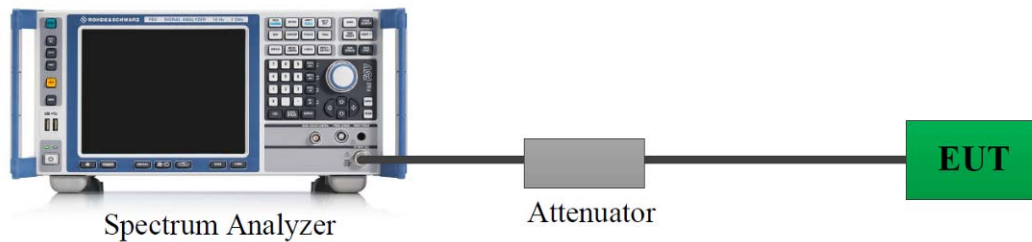
4.3 Minimum 6 dB Emission Bandwidth

4.3.1 Applicable Standard

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.

4.3.2 EUT Setup



4.3.3 Test Procedure

According to ANSI C63.10-2020 Section 11.8

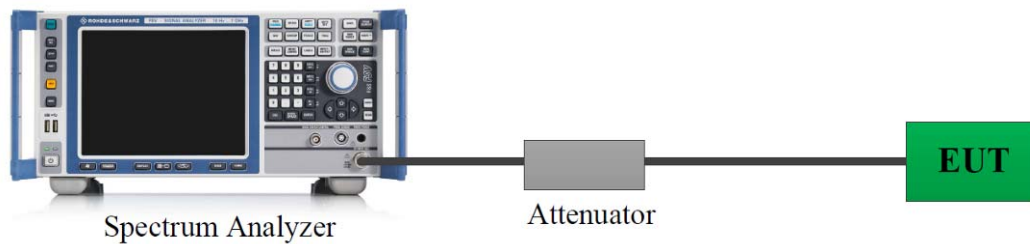
- Set RBW = shall be in the range of 1% to 5% of the OBW but not less than 100 kHz.
- Set the VBW $\geq [3 \times \text{RBW}]$.
- Detector = Peak.
- Trace mode = max hold.
- Sweep = No faster than coupled (auto) time.
- Allow the trace to stabilize.
- Measure the maximum width of the emission by placing 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.

4.3.4 Test Result

Please refer to section 5.3.

4.4 99% Occupied Bandwidth

4.4.1 EUT Setup



4.4.2 Test Procedure

According to ANSI C63.10-2020 Section 6.9.3

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:

- 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.
- The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW, and VBW shall be approximately three times the RBW, unless otherwise specified by the applicable requirement.
- 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 $[10 \log (\text{OBW/RBW})]$ below the reference level. Specific guidance is given in 4.1.6.2.
- Step a) through step c) might require iteration to adjust within the specified range.
- 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.
- Use the 99% power bandwidth function of the instrument (if available) and report the measured bandwidth.
- 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.
- The occupied bandwidth shall be reported by providing 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).

4.4.3 Test Result

Please refer to section 5.4.

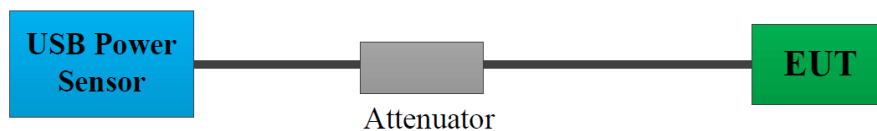
4.5 Maximum Conducted Output Power

4.5.1 Applicable Standard

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.

4.5.2 EUT Setup



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

Offset=Insert loss of RF cable+ Insert loss of attenuator

4.5.3 Test Procedure

According to ANSI C63.10-2020 Section 11.9.1.2

The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall use a fast-responding diode detector.

- Set the EUT in transmitting mode.
- Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to test equipment.
- Add a correction factor to the display.
- Set the power meter to test peak output power, record the result.

According to ANSI C63.10-2020 Section 11.9.2.3.2

Method AVGPM-G is a measurement using a gated RF average power meter.

Alternatively, measurements may be performed using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Because the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

4.5.4 Test Result

Please refer to section 5.5.

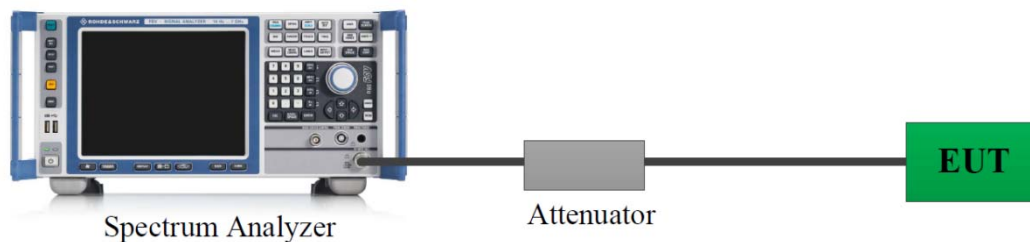
4.6 Maximum Power Spectral Density

4.6.1 Applicable Standard

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.

4.6.2 EUT Setup



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

Offset=Insert loss of RF cable+ Insert loss of attenuator

4.6.3 Test Procedure

According to ANSI C63.10-2020 Section 11.10.2

The following procedure shall be used if maximum peak conducted output power was used to determine compliance:

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

4.6.4 Test Result

Please refer to section 5.6.

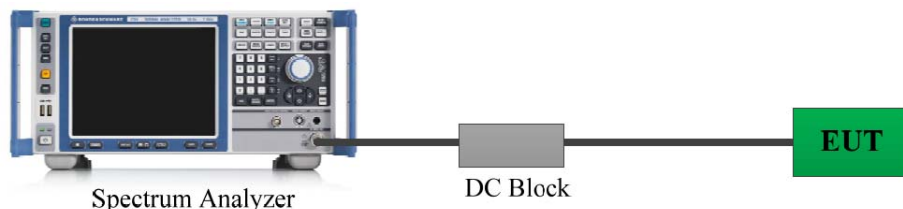
4.7 Conducted Spurious Emission

4.7.1 Applicable Standard

FCC §15.247 (d);

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)).

4.7.2 EUT Setup



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

Offset=Insert loss of RF cable+ Insert loss of attenuator

4.7.3 Test Procedure

According to ANSI C63.10-2020 Section 11.11

- Set the center frequency and span to encompass frequency range to be measured.
- Set the RBW = 100 kHz.
- Set the VBW $\geq [3 \times \text{RBW}]$.
- Detector = peak.
- Sweep time = No faster than coupled (auto) time.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum amplitude level.

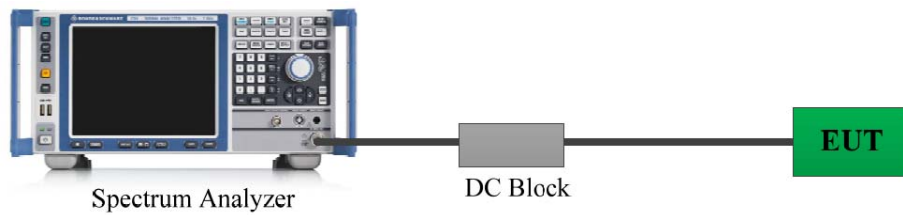
Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) is attenuated by at least the minimum requirements specified in 11.11. Report the three highest emissions relative to the limit.

4.7.4 Test Result

Please refer to section 5.8.

4.8 Duty Cycle

4.8.1 EUT Setup



4.8.2 Test Procedure

According to ANSI C63.10-2020 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 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 $T \leq 16.7 \mu s$.)

4.8.3 Judgment

Report Only. Please refer to section 5.7.

4.9 Antenna Requirement

4.9.1 Applicable Standard

FCC §15.203

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §§15.211, 15.213, 15.217, 15.219, 15.221, or §15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

4.9.2 Judgment

Compliant. Please refer to the Antenna Information detail in Section 1.3.

5. TEST DATA AND RESULTS

5.1 AC Line Conducted Emissions

Serial Number:	35O3-13	Test Date:	2025/07/23
Test Site:	CE	Test Mode:	Transmitting
Tester:	Yukin Qiu	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	26.3	Relative Humidity: (%)	65	ATM Pressure: (kPa)	99.6
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	LISN	ENV216	101614	2024/9/5	2025/9/4
Unknown	Coaxial Cable	RG 142	C-0200-05	2025/5/6	2026/5/5
R&S	EMI Test Receiver	ESCI	100224	2024/8/26	2025/8/25
Audix	Test Software	E3	191218 V9	N/A	N/A

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

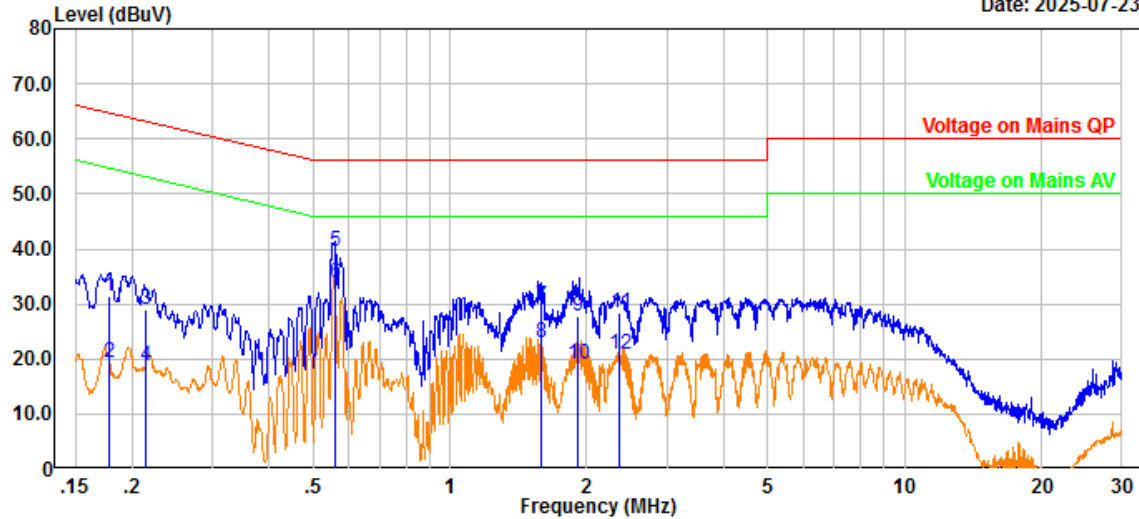
Test Data:

Please refer to the below plots.
Note: 802.11ax40 Low channel was tested.

Project No.: 2502U67463E-RF
 Port: Line
 Test Mode: Transmitting
 IF B/W 9kHz PK/AV

Serial No.: 3503-13
 Tester: Yukin Qiu
 Note: Part 15.247_WIFI

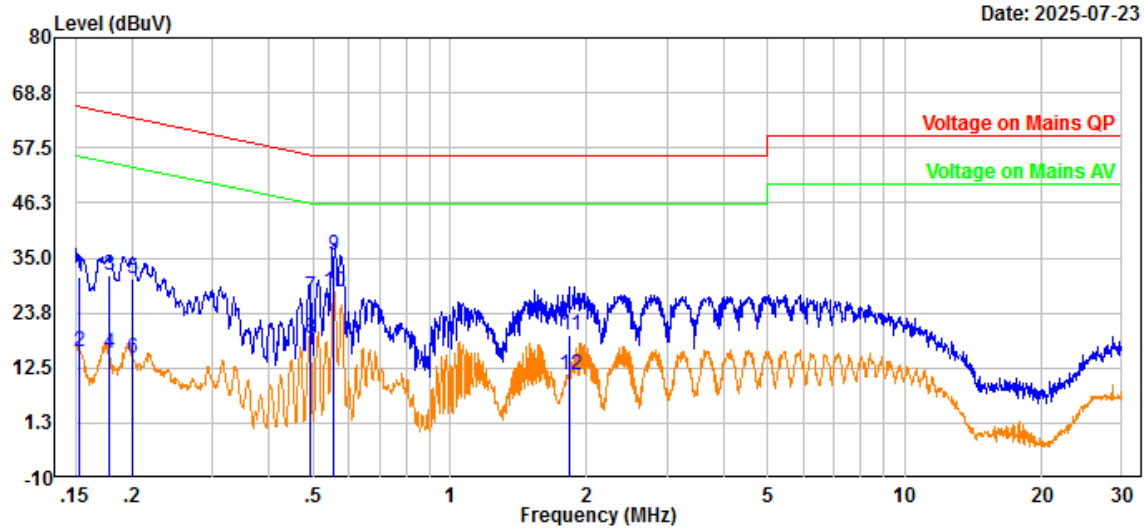
Date: 2025-07-23



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Measurement
1	0.178	20.47	10.98	31.45	64.58	33.13	QP
2	0.178	8.22	10.98	19.20	54.58	35.38	Average
3	0.214	18.05	10.79	28.84	63.05	34.21	QP
4	0.214	7.78	10.79	18.57	53.05	34.48	Average
5	0.558	29.11	10.55	39.66	56.00	16.34	QP
6	0.558	23.38	10.55	33.93	46.00	12.07	Average
7	1.582	18.53	11.10	29.63	56.00	26.37	QP
8	1.582	11.95	11.10	23.05	46.00	22.95	Average
9	1.913	16.63	11.27	27.90	56.00	28.10	QP
10	1.913	7.70	11.27	18.97	46.00	27.03	Average
11	2.366	17.17	11.20	28.37	56.00	27.63	QP
12	2.366	9.67	11.20	20.87	46.00	25.13	Average

Project No.: 2502U67463E-RF
Port: neutral
Test Mode: Transmitting
IF B/W 9kHz PK/AV

Serial No.: 3503-13
Tester: Yukin Qiu
Note: Part 15.247_WIFI



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Measurement
1	0.153	20.31	10.71	31.02	65.83	34.81	QP
2	0.153	5.17	10.71	15.88	55.83	39.95	Average
3	0.178	20.59	10.81	31.40	64.60	33.20	QP
4	0.178	4.56	10.81	15.37	54.60	39.23	Average
5	0.200	19.82	10.90	30.72	63.60	32.88	QP
6	0.200	3.67	10.90	14.57	53.60	39.03	Average
7	0.492	16.54	10.52	27.06	56.13	29.07	QP
8	0.492	8.08	10.52	18.60	46.13	27.53	Average
9	0.555	25.01	10.48	35.49	56.00	20.51	QP
10	0.555	17.58	10.48	28.06	46.00	17.94	Average
11	1.837	8.13	11.16	19.29	56.00	36.71	QP
12	1.837	-0.12	11.16	11.04	46.00	34.96	Average

5.2 Radiation Spurious Emissions

1)9kHz - 1GHz

Serial Number:	35O3-7	Test Date:	2025/8/7
Test Site:	Chamber10m	Test Mode:	Transmitting
Tester:	Zoo Zou	Test Result:	Pass

Environmental Conditions:					
Temperature: (°C)	25.1	Relative Humidity: (%)	47	ATM Pressure: (kPa)	99.7

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
EMCO	Passive Loop Antenna	6512	9706-1206	2023/10/25	2026/10/24
Sunol Sciences	Hybrid Antenna	JB3	A060611-1	2023/9/6	2026/9/5
Narda	Coaxial Attenuator	779-6dB	04269	2023/9/6	2026/9/5
Unknown	Coaxial Cable	C-NJNJ-50	C-1000-01	2025/7/1	2026/6/30
Unknown	Coaxial Cable	C-NJNJ-50	C-0400-04	2025/7/1	2026/6/30
Unknown	Coaxial Cable	C-NJNJ-50	C-0530-01	2025/7/1	2026/6/30
Sonoma	Amplifier	310N	185914	2024/8/26	2025/8/25
R&S	EMI Test Receiver	ESR3	102453	2024/8/26	2025/8/25
Audix	Test Software	E3	191218 V9	N/A	N/A

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

Test Data:

Please refer to the below plots.

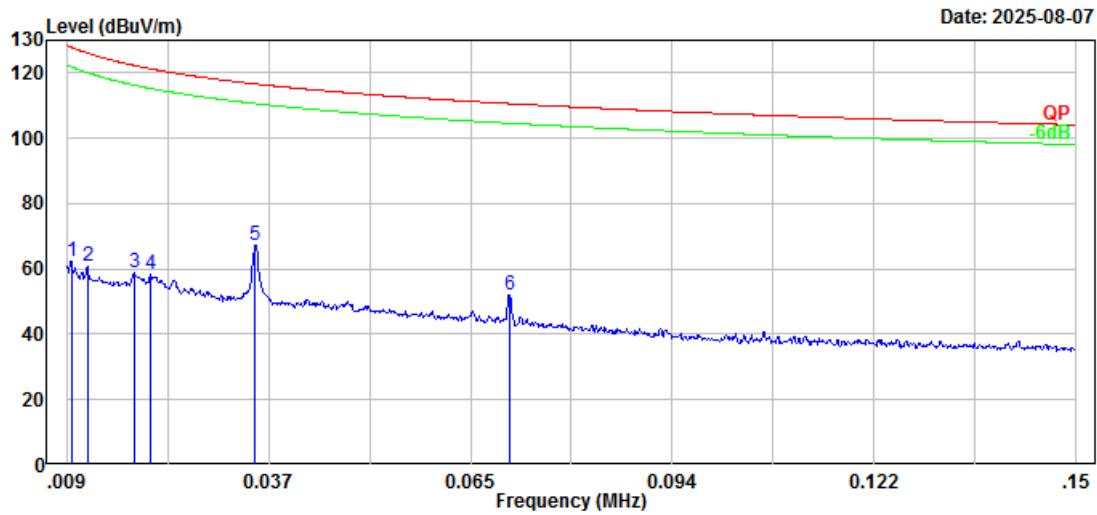
After pre-scan in the X, Y and Z axes of orientation, the worst case is refer to plots.

Note: 802.11ax40 Low channel was tested.

9kHz~30MHz
Three antenna orientations (parallel, perpendicular, and ground-parallel) was measured, the worst orientations was below:

Project No.: 2502U67463E-RF
Polarization: Parallel
Test Mode: Transmitting
Note: 2.4G Wifi
RBW:200Hz VBW:1kHz

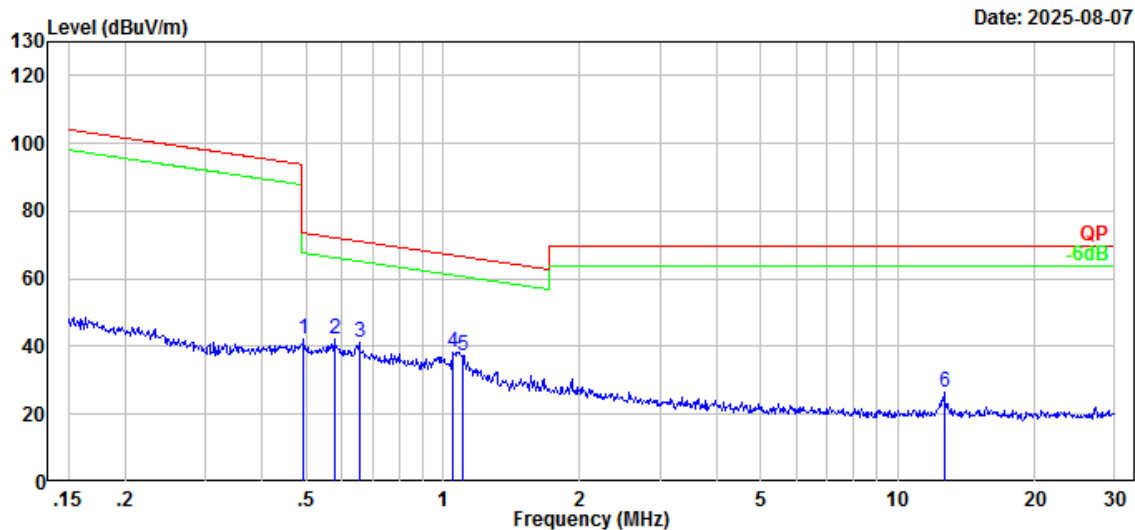
Serial No.: 3503-7
Tester: Zoo Zou



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Measurement
1	0.010	9.11	52.97	62.08	127.86	65.78	Peak
2	0.012	8.65	52.30	60.95	126.05	65.10	Peak
3	0.019	8.32	50.43	58.75	122.22	63.47	Peak
4	0.021	8.51	49.87	58.38	121.28	62.90	Peak
5	0.035	20.69	46.60	67.29	116.63	49.34	Peak
6	0.071	11.49	40.44	51.93	110.59	58.66	Peak

Project No.: 2502U67463E-RF
Polarization: Parallel
Test Mode: Transmitting
Note: 2.4G Wifi
RBW:9kHz VBW:30kHz

Serial No.: 3503-7
Tester: Zoo Zou



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Measurement
1	0.494	18.63	23.54	42.17	73.73	31.56	Peak
2	0.576	19.37	22.71	42.08	72.36	30.28	Peak
3	0.654	19.26	21.92	41.18	71.24	30.06	Peak
4	1.049	21.96	16.34	38.30	67.05	28.75	Peak
5	1.106	21.23	16.10	37.33	66.58	29.25	Peak
6	12.649	21.70	4.65	26.35	69.54	43.19	Peak

30MHz-1GHz

Project No.: 2502U67463E-RF

Serial No.: 3503-7

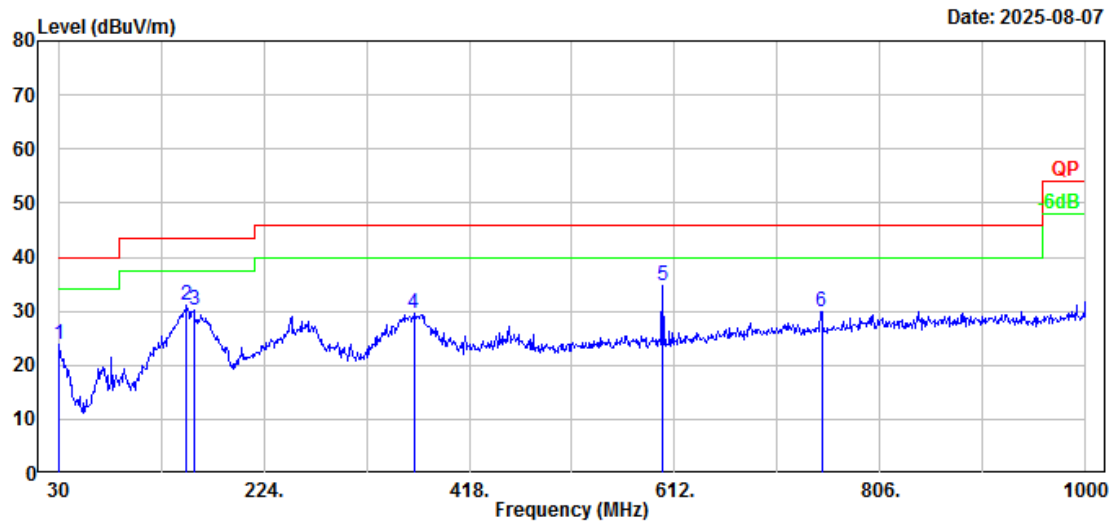
Polarization: Horizontal

Tester: Zoo Zou

Test Mode: Transmitting

Note: 2.4G Wifi

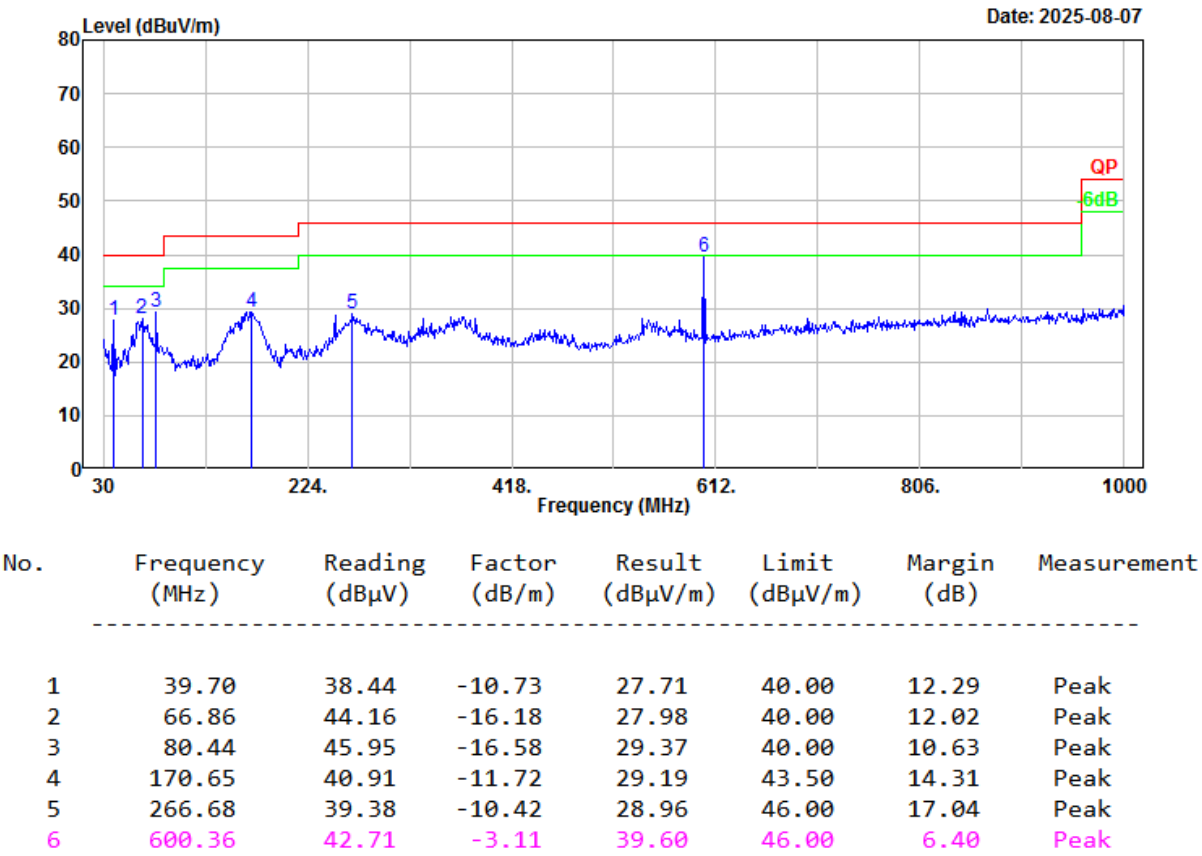
RBW:120kHz VBW:500kHz



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Measurement
1	30.97	28.64	-4.77	23.87	40.00	16.13	Peak
2	151.25	42.21	-11.21	31.00	43.50	12.50	Peak
3	158.04	41.11	-10.93	30.18	43.50	13.32	Peak
4	365.62	37.78	-8.12	29.66	46.00	16.34	Peak
5	600.36	37.95	-3.11	34.84	46.00	11.16	Peak
6	750.71	30.32	-0.40	29.92	46.00	16.08	Peak

Project No.: 2502U67463E-RF
Polarization: Vertical
Test Mode: Transmitting
Note: 2.4G Wifi
RBW:120kHz VBW:500kHz

Serial No.: 3503-7
Tester: Zoo Zou



2) 1-25GHz:

Serial Number:	35O3-2	Test Date:	2025/9/6
Test Site:	Chamber B	Test Mode:	Transmitting
Tester:	Willem Qiu	Test Result:	Pass

Environmental Conditions:					
Temperature: (°C)	26.8	Relative Humidity: (%)	45	ATM Pressure: (kPa)	100.2

Test Equipment List and Details:

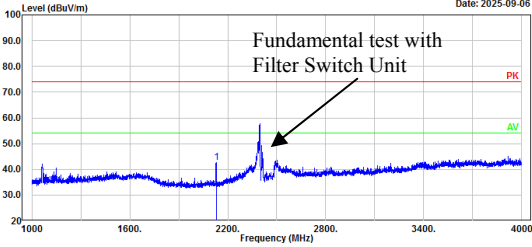
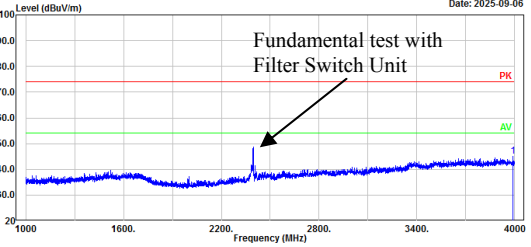
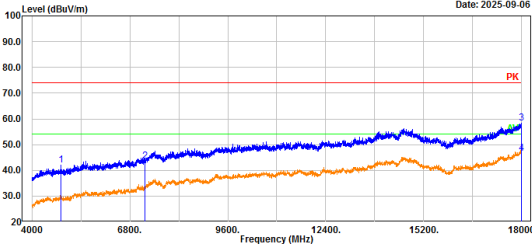
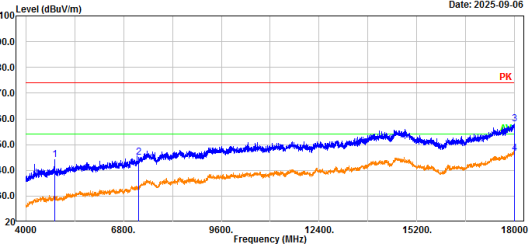
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
ETS-Lindgren	Horn Antenna	3115	000 527 35	2023/9/7	2026/9/6
Ducommun Technologies	Horn Antenna	ARH-4223-02	1007726-02 1304	2023/2/22	2026/2/21
Xinhang Macrowave	Coaxial Cable	XH750A-N/J-SMA/J-10M	20231117004 #0001	2024/11/17	2025/11/16
Xinhang Macrowave	Coaxial Cable	XH360A-2.92/J-2.92/J-6M-A	20231208001 #0001	2024/12/9	2025/12/8
AH	Preamplifier	PAM-0118P	469	2025/4/11	2026/4/10
AH	Preamplifier	PAM-1840VH	191	2025/9/4	2026/9/3
R&S	Spectrum Analyzer	FSV40	101944	2025/8/8	2026/8/7
Audix	Test Software	E3	191218 V9	N/A	N/A
Decentest	Multiplex Switch Test Control Set & Filter Switch Unit	DT7220SCU & DT7220FCU	DC79902 & DC79905	2025/8/25	2026/8/24

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

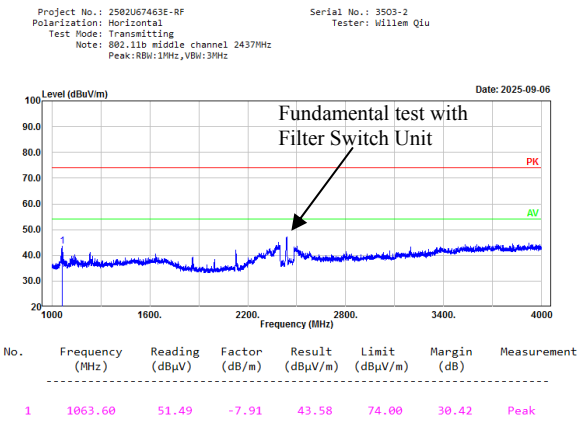
Test Data:

Please refer to the below plots.
After pre-scan in the X, Y and Z axes of orientation, the worst case is refer to plots.

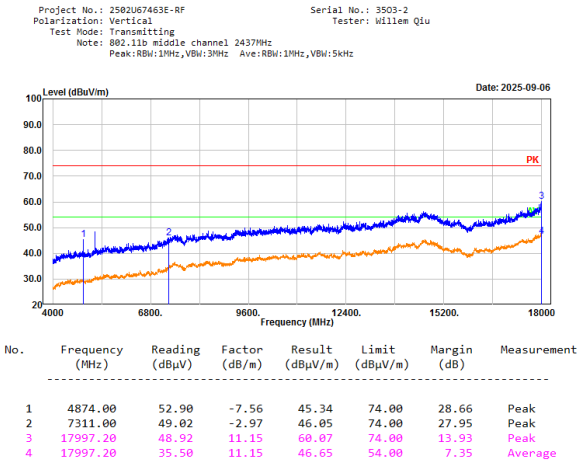
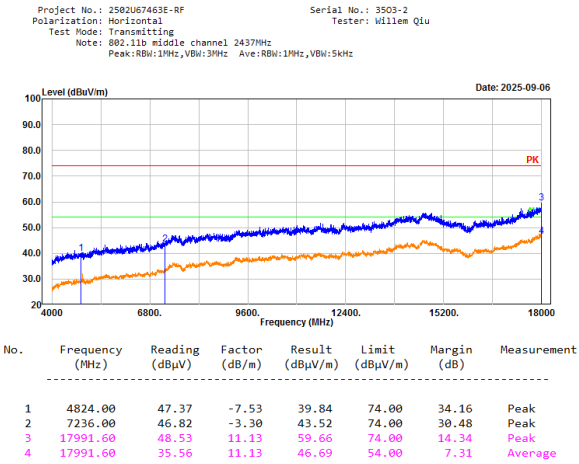
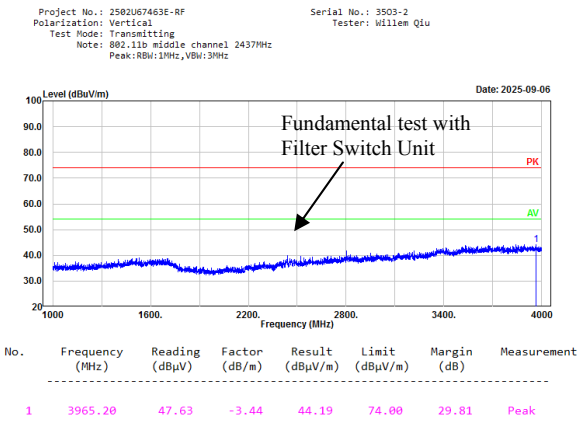
1-18GHz:

802.11b low channel Horizontal				802.11b low channel Vertical																																																																																			
Project No.: 2502U67463E-RF Polarization: Horizontal Test Mode: Transmitting Note: 802.11b low channel 2412MHz Peak: RBW:1MHz, VBI:3MHz Serial No.: 3503-2 Tester: Willem Qiu Date: 2025-09-06  <table><tr><th>No.</th><th>Frequency (MHz)</th><th>Reading (dBuV)</th><th>Factor (dB/m)</th><th>Result (dBuV/m)</th><th>Limit (dBuV/m)</th><th>Margin (dB)</th><th>Measurement</th></tr><tr><td>1</td><td>2129.80</td><td>52.41</td><td>-9.71</td><td>42.70</td><td>74.00</td><td>31.30</td><td>Peak</td></tr></table>				No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement	1	2129.80	52.41	-9.71	42.70	74.00	31.30	Peak	Project No.: 2502U67463E-RF Polarization: Vertical Test Mode: Transmitting Note: 802.11b low channel 2412MHz Peak: RBW:1MHz, VBI:3MHz Serial No.: 3503-2 Tester: Willem Qiu Date: 2025-09-06  <table><tr><th>No.</th><th>Frequency (MHz)</th><th>Reading (dBuV)</th><th>Factor (dB/m)</th><th>Result (dBuV/m)</th><th>Limit (dBuV/m)</th><th>Margin (dB)</th><th>Measurement</th></tr><tr><td>1</td><td>3988.60</td><td>48.54</td><td>-3.44</td><td>45.10</td><td>74.00</td><td>28.90</td><td>Peak</td></tr></table>				No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement	1	3988.60	48.54	-3.44	45.10	74.00	28.90	Peak																																																
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1	3988.60	48.54	-3.44	45.10	74.00	28.90	Peak																																																																																
Project No.: 2502U67463E-RF Polarization: Horizontal Test Mode: Transmitting Note: 802.11b low channel 2412MHz Peak: RBW:1MHz, VBI:3MHz Ave: RBW:1MHz, VBI:5kHz Serial No.: 3503-2 Tester: Willem Qiu Date: 2025-09-06  <table><tr><th>No.</th><th>Frequency (MHz)</th><th>Reading (dBuV)</th><th>Factor (dB/m)</th><th>Result (dBuV/m)</th><th>Limit (dBuV/m)</th><th>Margin (dB)</th><th>Measurement</th></tr><tr><td>1</td><td>4824.00</td><td>49.58</td><td>-7.53</td><td>42.05</td><td>74.00</td><td>31.95</td><td>Peak</td></tr><tr><td>2</td><td>7236.00</td><td>46.88</td><td>-3.30</td><td>43.58</td><td>74.00</td><td>30.42</td><td>Peak</td></tr><tr><td>3</td><td>17997.20</td><td>47.25</td><td>11.15</td><td>58.40</td><td>74.00</td><td>15.60</td><td>Peak</td></tr><tr><td>4</td><td>17997.20</td><td>35.51</td><td>11.15</td><td>46.66</td><td>54.00</td><td>7.34</td><td>Average</td></tr></table>				No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement	1	4824.00	49.58	-7.53	42.05	74.00	31.95	Peak	2	7236.00	46.88	-3.30	43.58	74.00	30.42	Peak	3	17997.20	47.25	11.15	58.40	74.00	15.60	Peak	4	17997.20	35.51	11.15	46.66	54.00	7.34	Average	Project No.: 2502U67463E-RF Polarization: Vertical Test Mode: Transmitting Note: 802.11b low channel 2412MHz Peak: RBW:1MHz, VBI:3MHz Ave: RBW:1MHz, VBI:5kHz Serial No.: 3503-2 Tester: Willem Qiu Date: 2025-09-06  <table><tr><th>No.</th><th>Frequency (MHz)</th><th>Reading (dBuV)</th><th>Factor (dB/m)</th><th>Result (dBuV/m)</th><th>Limit (dBuV/m)</th><th>Margin (dB)</th><th>Measurement</th></tr><tr><td>1</td><td>4824.00</td><td>51.64</td><td>-7.53</td><td>44.11</td><td>74.00</td><td>29.89</td><td>Peak</td></tr><tr><td>2</td><td>7236.00</td><td>48.22</td><td>-3.30</td><td>44.92</td><td>74.00</td><td>29.08</td><td>Peak</td></tr><tr><td>3</td><td>17988.80</td><td>46.89</td><td>11.11</td><td>58.00</td><td>74.00</td><td>16.00</td><td>Peak</td></tr><tr><td>4</td><td>17988.80</td><td>35.52</td><td>11.11</td><td>46.63</td><td>54.00</td><td>7.37</td><td>Average</td></tr></table>				No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement	1	4824.00	51.64	-7.53	44.11	74.00	29.89	Peak	2	7236.00	48.22	-3.30	44.92	74.00	29.08	Peak	3	17988.80	46.89	11.11	58.00	74.00	16.00	Peak	4	17988.80	35.52	11.11	46.63	54.00	7.37	Average
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement																																																																																
1	4824.00	49.58	-7.53	42.05	74.00	31.95	Peak																																																																																
2	7236.00	46.88	-3.30	43.58	74.00	30.42	Peak																																																																																
3	17997.20	47.25	11.15	58.40	74.00	15.60	Peak																																																																																
4	17997.20	35.51	11.15	46.66	54.00	7.34	Average																																																																																
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement																																																																																
1	4824.00	51.64	-7.53	44.11	74.00	29.89	Peak																																																																																
2	7236.00	48.22	-3.30	44.92	74.00	29.08	Peak																																																																																
3	17988.80	46.89	11.11	58.00	74.00	16.00	Peak																																																																																
4	17988.80	35.52	11.11	46.63	54.00	7.37	Average																																																																																

802.11b middle channel Horizontal



802.11b middle channel Vertical



802.11b high channel Horizontal

Project No.: 2502U67463E-RF

Polarization: Horizontal

Test Mode: Transmitting

Note: 802.11b high channel 2462MHz

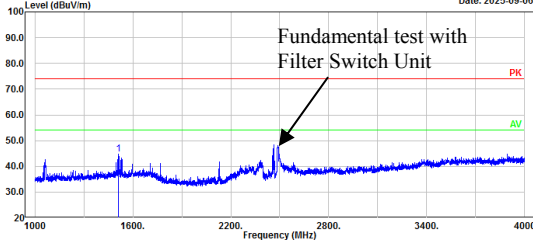
Peak:RBW:1MHz,VBW:3MHz

Serial No.: 3503-2

Tester: Willem Qiu

Date: 2025-09-06

Fundamental test with Filter Switch Unit



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	1510.00	52.10	-7.26	44.84	74.00	29.16	Peak

802.11b high channel Vertical

Project No.: 2502U67463E-RF

Polarization: Vertical

Test Mode: Transmitting

Note: 802.11b high channel 2462MHz

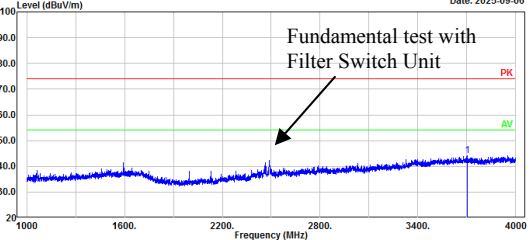
Peak:RBW:1MHz,VBW:3MHz

Serial No.: 3503-2

Tester: Willem Qiu

Date: 2025-09-06

Fundamental test with Filter Switch Unit



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	3704.20	48.43	-4.17	44.26	74.00	29.74	Peak

Project No.: 2502U67463E-RF

Polarization: Horizontal

Test Mode: Transmitting

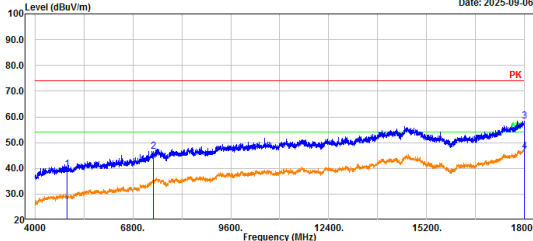
Note: 802.11b high channel 2462MHz

Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5KHz

Serial No.: 3503-2

Tester: Willem Qiu

Date: 2025-09-06



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	4924.00	47.04	-7.49	39.55	74.00	34.45	Peak
2	7386.00	48.87	-2.45	46.42	74.00	27.58	Peak
3	17997.00	47.21	11.15	58.36	74.00	15.64	Peak
4	17997.00	35.52	11.15	46.67	54.00	7.33	Average

Project No.: 2502U67463E-RF

Polarization: Vertical

Test Mode: Transmitting

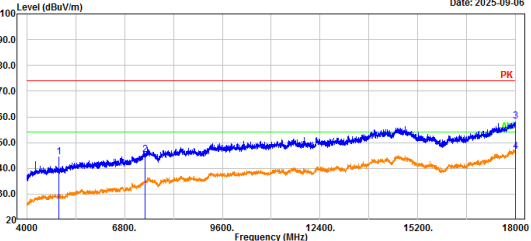
Note: 802.11b high channel 2462MHz

Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5KHz

Serial No.: 3503-2

Tester: Willem Qiu

Date: 2025-09-06



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	4924.00	51.84	-7.49	44.35	74.00	29.65	Peak
2	7386.00	47.69	-2.45	45.24	74.00	28.76	Peak
3	17997.00	47.24	11.15	58.39	74.00	15.61	Peak
4	17997.00	35.51	11.15	46.66	54.00	7.34	Average

802.11g low channel Horizontal

Project No.: 2502U67463E-RF

Serial No.: 3503-2

Polarization: Horizontal

Tester: Willem Qiu

Test Mode: Transmitting

Note: 802.11g low channel 2412MHz

Peak: RBW:1MHz,VBW:3MHz

Level (dBuV/m)

Fundamental test with Filter Switch Unit

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	1573.60	51.63	-7.37	44.26	74.00	29.74	Peak

802.11g low channel Vertical

Project No.: 2502U67463E-RF

Serial No.: 3503-2

Polarization: Vertical

Tester: Willem Qiu

Test Mode: Transmitting

Note: 802.11g low channel 2412MHz

Peak: RBW:1MHz,VBW:3MHz

Level (dBuV/m)

Fundamental test with Filter Switch Unit

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	3886.60	47.95	-3.79	44.16	74.00	29.84	Peak

Project No.: 2502U67463E-RF

Serial No.: 3503-2

Polarization: Horizontal

Tester: Willem Qiu

Test Mode: Transmitting

Note: 802.11g low channel 2412MHz

Peak: RBW:1MHz,VBW:3MHz Ave: RBW:1MHz,VBW:5KHz

Level (dBuV/m)

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	4824.00	48.07	-7.53	40.54	74.00	33.46	Peak
2	7236.00	47.04	-3.30	43.74	74.00	30.26	Peak
3	17955.20	47.52	10.91	58.43	74.00	15.57	Peak
4	17955.20	35.75	10.91	46.66	54.00	7.34	Average

Project No.: 2502U67463E-RF

Serial No.: 3503-2

Polarization: Vertical

Tester: Willem Qiu

Test Mode: Transmitting

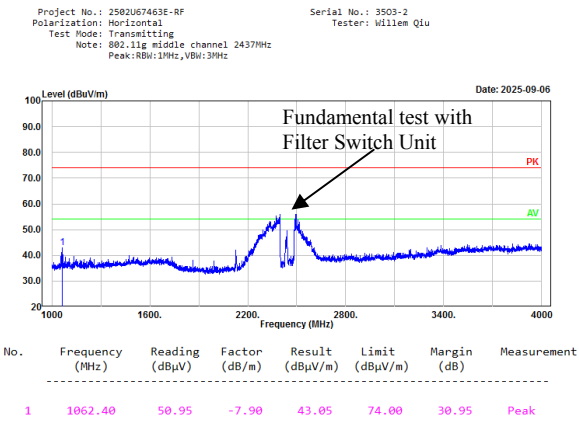
Note: 802.11g low channel 2412MHz

Peak: RBW:1MHz,VBW:3MHz Ave: RBW:1MHz,VBW:5KHz

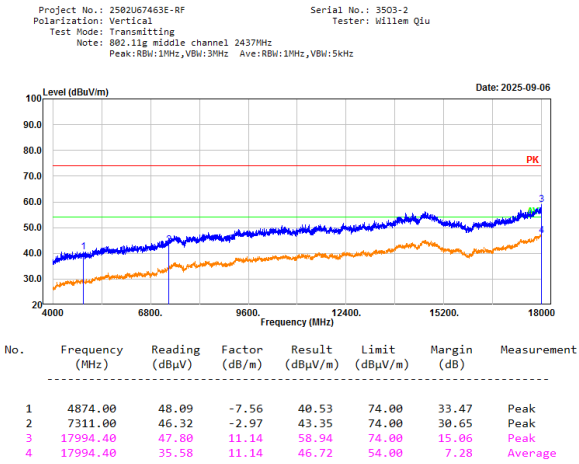
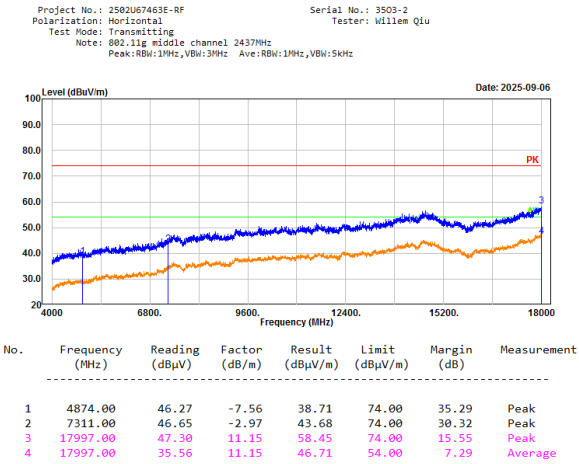
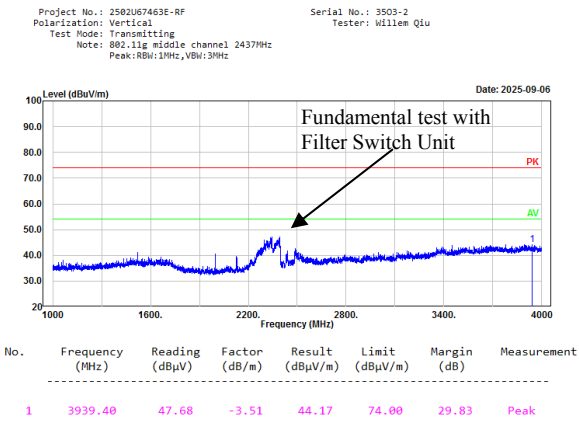
Level (dBuV/m)

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	4824.00	48.67	-7.53	41.14	74.00	32.86	Peak
2	7236.00	46.83	-3.30	43.53	74.00	30.47	Peak
3	17991.60	47.58	11.13	58.71	74.00	15.29	Peak
4	17991.60	35.56	11.13	46.69	54.00	7.31	Average

802.11g middle channel Horizontal



802.11g middle channel Vertical



802.11g high channel Horizontal

Project No.: 2502U67463E-RF

Polarization: Horizontal

Test Mode: Transmitting

Note: 802.11g high channel 2462MHz

Peak:RBW:1MHz,VBW:3MHz

Serial No.: 3503-2

Tester: Willem Qiu

Date: 2025-09-06

Level (dBuV/m)

100

90.0

80.0

70.0

60.0

50.0

40.0

30.0

20

Fundamental test with Filter Switch Unit

PK

AV

1000

1600.

2200.

2800.

3400.

4000

Frequency (MHz)

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	1558.00	54.31	-7.37	46.94	74.00	27.06	Peak

802.11g high channel Vertical

Project No.: 2502U67463E-RF

Polarization: Vertical

Test Mode: Transmitting

Note: 802.11g high channel 2462MHz

Peak:RBW:1MHz,VBW:3MHz

Serial No.: 3503-2

Tester: Willem Qiu

Date: 2025-09-06

Level (dBuV/m)

100

90.0

80.0

70.0

60.0

50.0

40.0

30.0

20

Fundamental test with Filter Switch Unit

PK

AV

1000

1600.

2200.

2800.

3400.

4000

Frequency (MHz)

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	3379.00	49.16	-5.06	44.10	74.00	29.90	Peak

Project No.: 2502U67463E-RF

Polarization: Horizontal

Test Mode: Transmitting

Note: 802.11g high channel 2462MHz

Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5KHz

Serial No.: 3503-2

Tester: Willem Qiu

Date: 2025-09-06

Level (dBuV/m)

100

90.0

80.0

70.0

60.0

50.0

40.0

30.0

20

PK

AV

4000

6800.

9600.

12400.

15200.

18000

Frequency (MHz)

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	4924.00	45.99	-7.49	38.50	74.00	35.50	Peak
2	7386.00	47.12	-2.45	44.67	74.00	29.33	Peak
3	17988.80	47.24	11.11	58.35	74.00	15.65	Peak
4	17988.80	35.48	11.11	46.59	54.00	7.41	Average

Project No.: 2502U67463E-RF

Polarization: Vertical

Test Mode: Transmitting

Note: 802.11g high channel 2462MHz

Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5KHz

Serial No.: 3503-2

Tester: Willem Qiu

Date: 2025-09-06

Level (dBuV/m)

100

90.0

80.0

70.0

60.0

50.0

40.0

30.0

20

PK

AV

4000

6800.

9600.

12400.

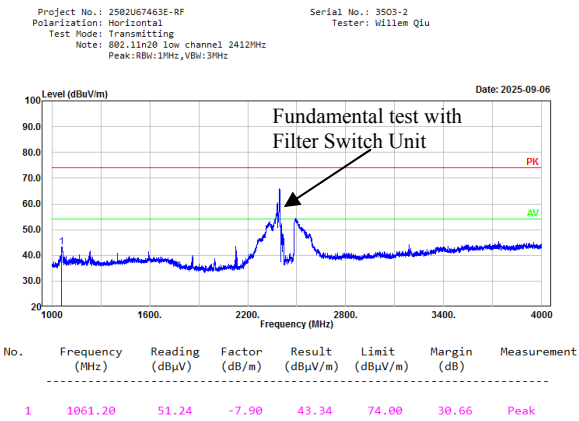
15200.

18000

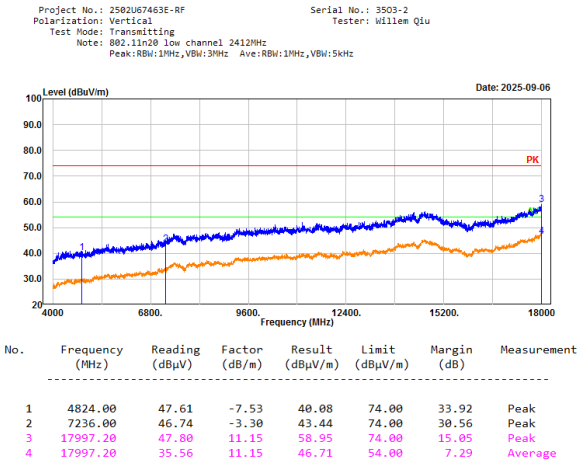
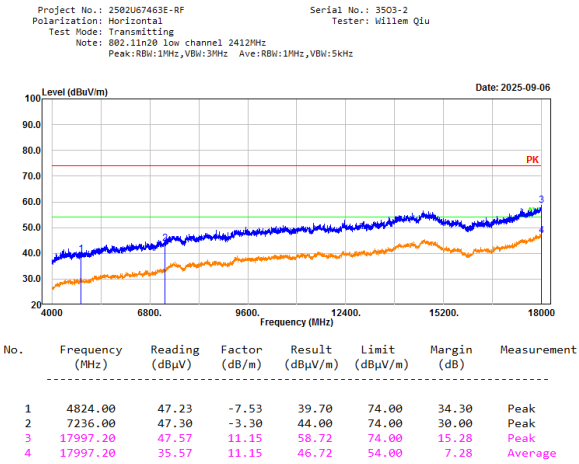
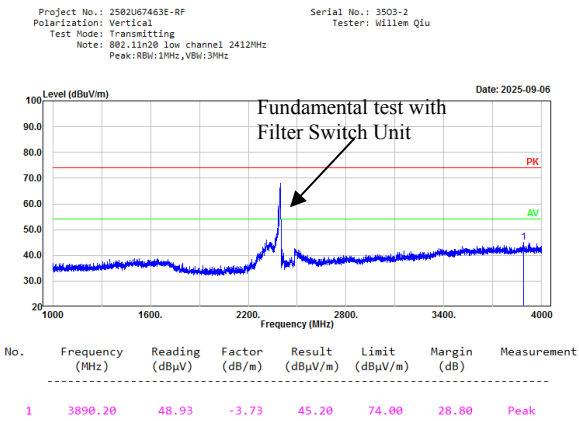
Frequency (MHz)

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	4924.00	48.15	-7.49	40.66	74.00	33.34	Peak
2	7386.00	48.70	-2.45	46.25	74.00	27.75	Peak
3	17974.80	47.41	11.03	58.44	74.00	15.56	Peak
4	17974.80	35.64	11.03	46.67	54.00	7.33	Average

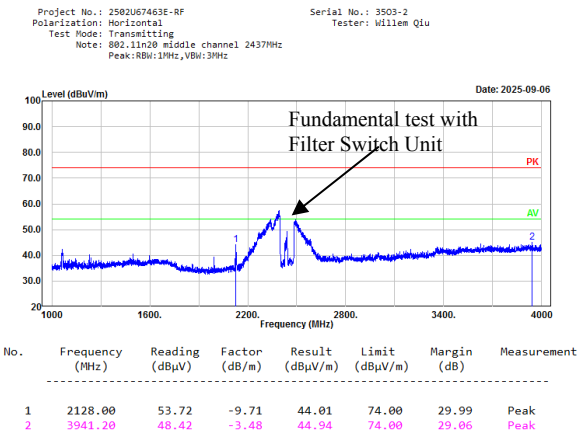
802.11n20 low channel Horizontal



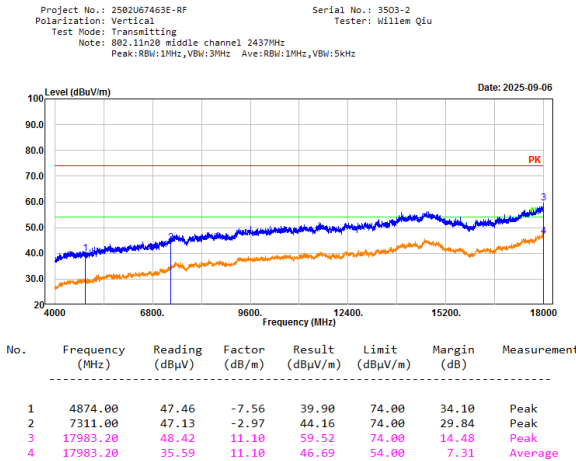
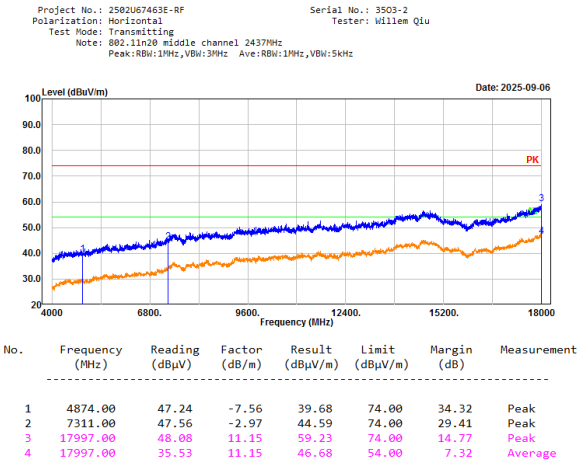
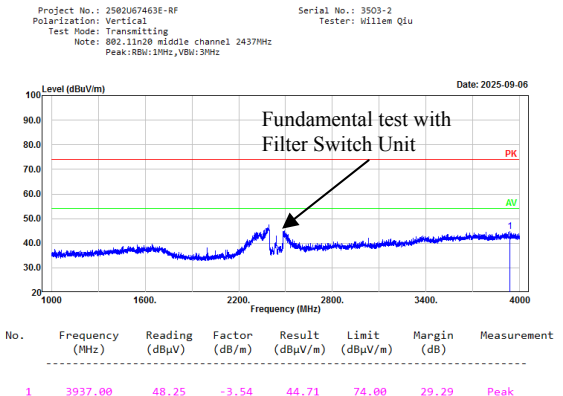
802.11n20 low channel Vertical



802.11n20 middle channel Horizontal



802.11n20 middle channel Vertical



802.11n20 high channel Horizontal

Project No.: 2502U67463E-RF

Serial No.: 3503-2

Polarization: Horizontal

Tester: Willem Qiu

Test Mode: Transmitting

Note: 802.11n20 high channel 2462MHz

Peak: RBW:1MHz,VBW:3MHz

Level (dBuV/m)

Fundamental test with Filter Switch Unit

1000 1600 2200 2800 3400 4000

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	1061.80	49.94	-7.90	42.04	74.00	31.96	Peak

Project No.: 2502U67463E-RF

Serial No.: 3503-2

Polarization: Vertical

Tester: Willem Qiu

Test Mode: Transmitting

Note: 802.11n20 high channel 2462MHz

Peak: RBW:1MHz,VBW:3MHz

Level (dBuV/m)

Fundamental test with Filter Switch Unit

1000 1600 2200 2800 3400 4000

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	3827.80	49.97	-4.03	45.94	74.00	28.06	Peak

Project No.: 2502U67463E-RF

Serial No.: 3503-2

Polarization: Horizontal

Tester: Willem Qiu

Test Mode: Transmitting

Note: 802.11n20 high channel 2462MHz

Peak: RBW:1MHz,VBW:3MHz

Ave: RBW:1MHz,VBW:5kHz

Level (dBuV/m)

4000 6800 9600 12400 15200 18000

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	4924.00	47.21	-7.49	39.72	74.00	34.28	Peak
2	7386.00	47.97	-2.45	45.52	74.00	28.48	Peak
3	17949.60	47.27	10.88	58.15	74.00	15.85	Peak
4	17949.60	35.84	10.88	46.72	54.00	7.28	Average

Project No.: 2502U67463E-RF

Serial No.: 3503-2

Polarization: Vertical

Tester: Willem Qiu

Test Mode: Transmitting

Note: 802.11n20 high channel 2462MHz

Peak: RBW:1MHz,VBW:3MHz

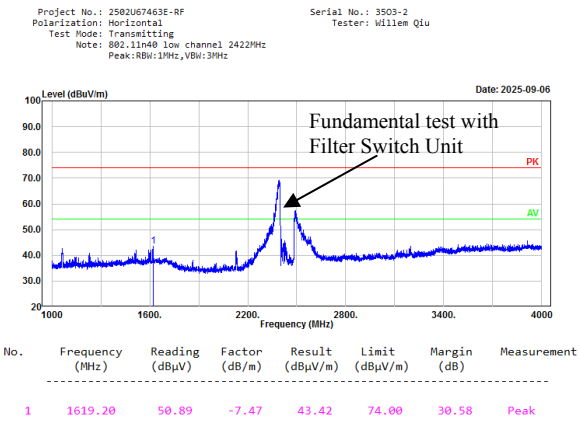
Ave: RBW:1MHz,VBW:5kHz

Level (dBuV/m)

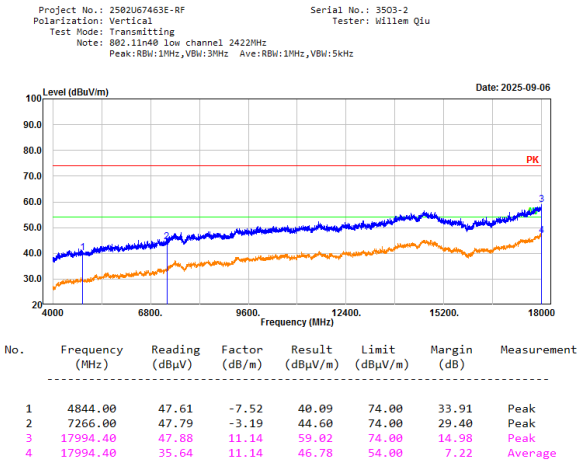
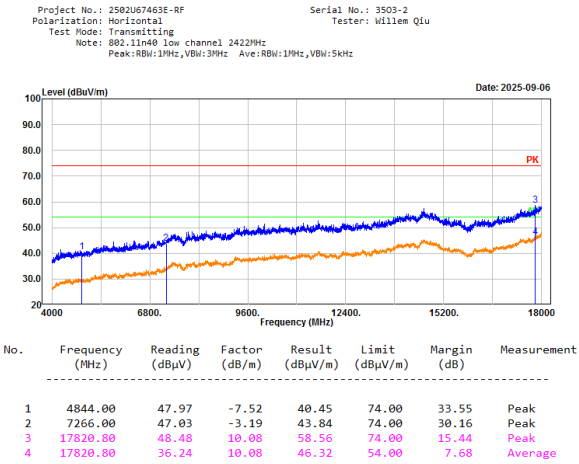
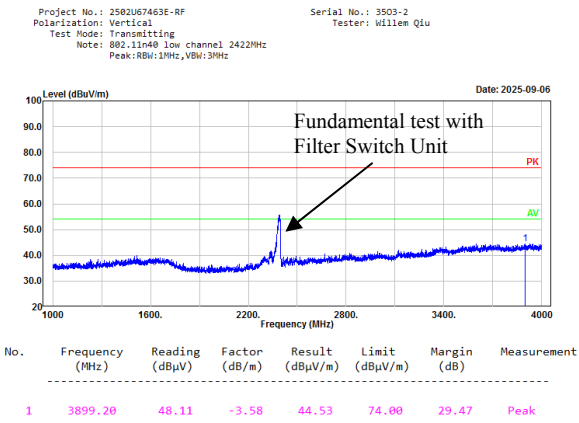
4000 6800 9600 12400 15200 18000

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	4924.00	46.62	-7.49	39.13	74.00	34.87	Peak
2	7386.00	47.29	-2.45	44.84	74.00	29.16	Peak
3	17966.40	47.25	10.98	58.23	74.00	15.77	Peak
4	17966.40	35.73	10.98	46.71	54.00	7.29	Average

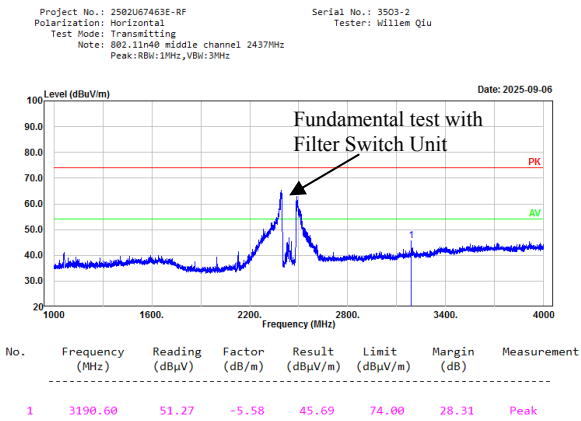
802.11n40 low channel Horizontal



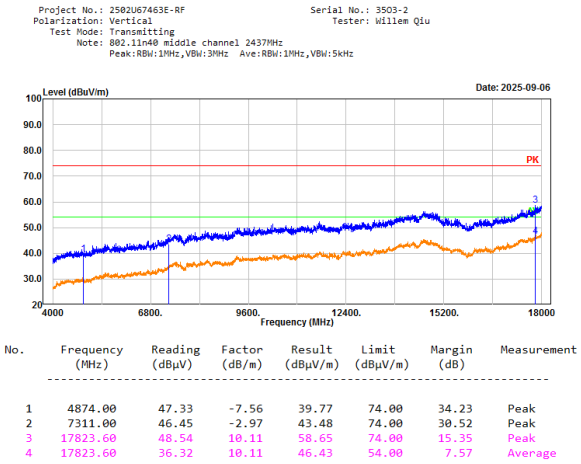
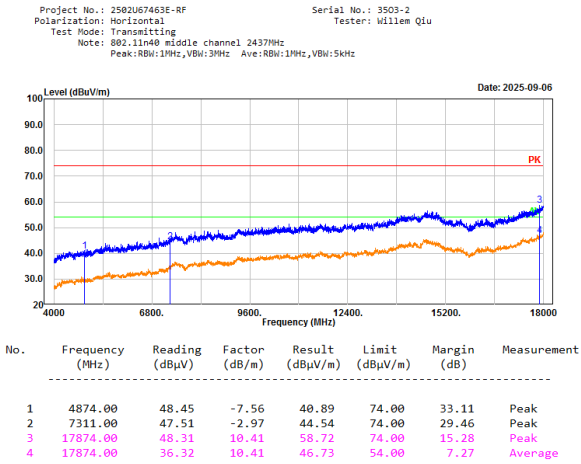
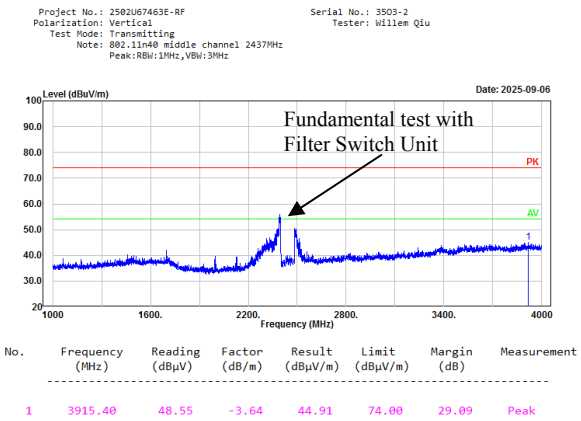
802.11n40 low channel Vertical



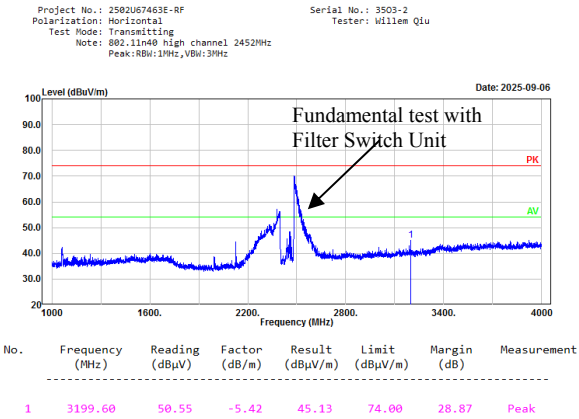
802.11n40 middle channel Horizontal



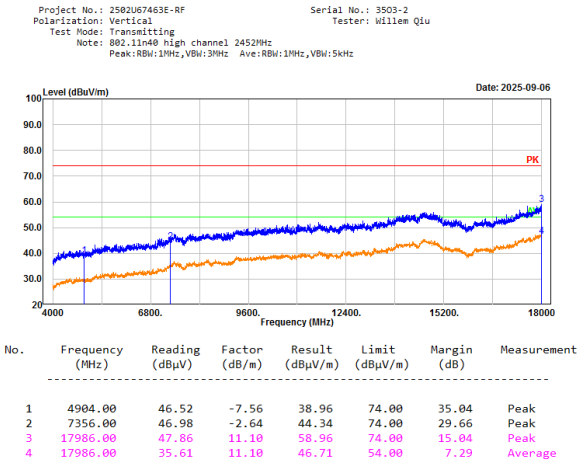
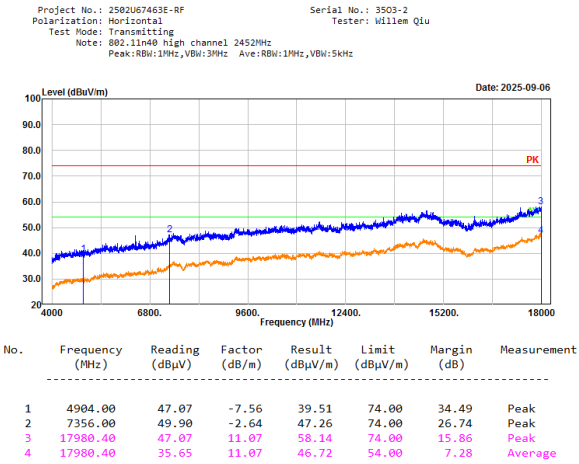
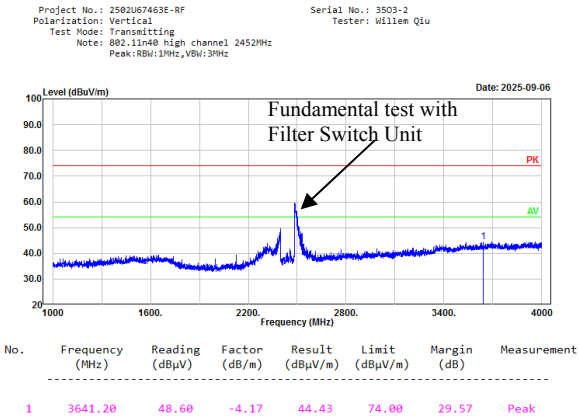
802.11n40 middle channel Vertical



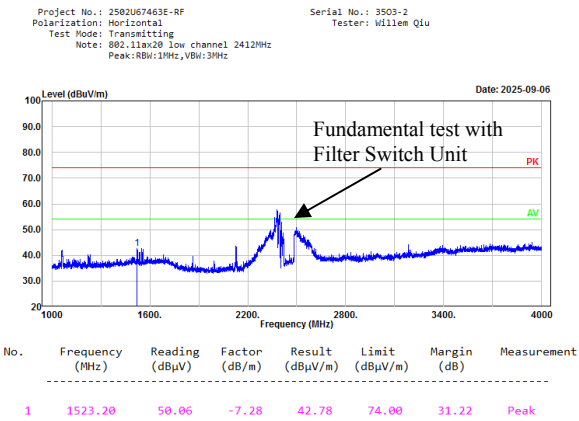
802.11n40 high channel Horizontal



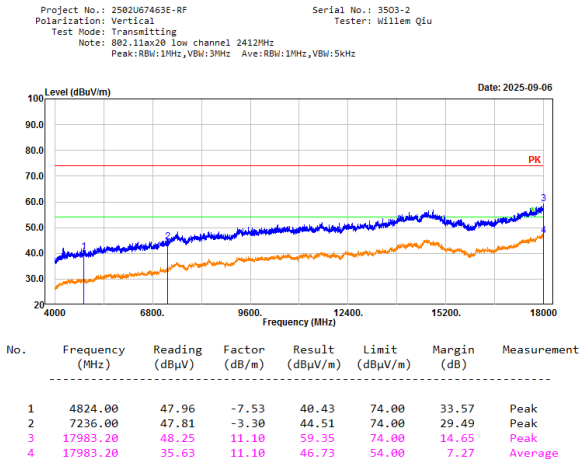
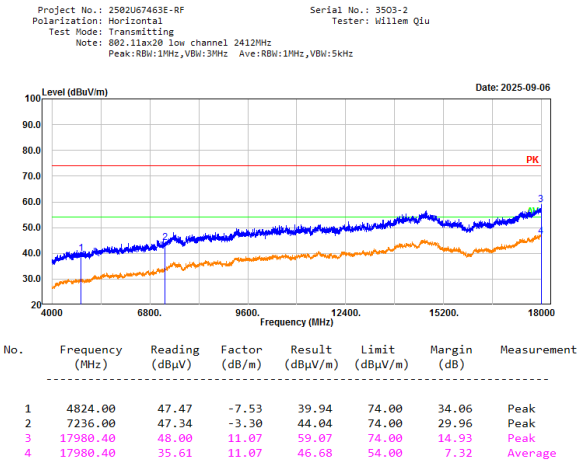
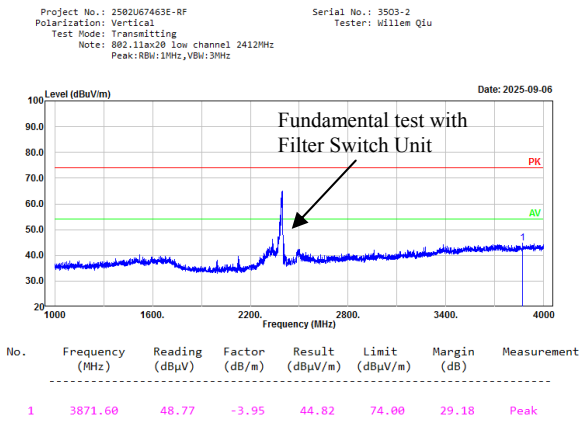
802.11n40 high channel Vertical



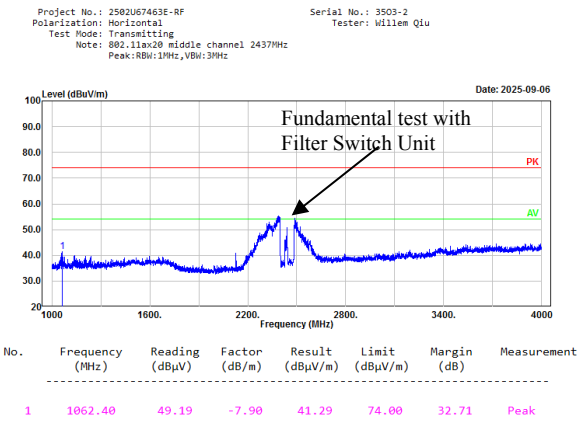
802.11ax20 low channel Horizontal



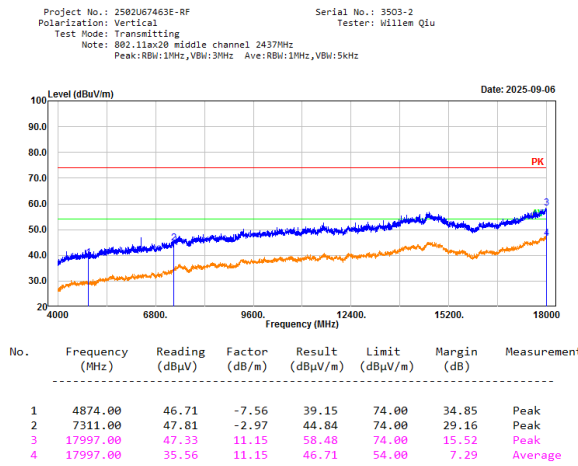
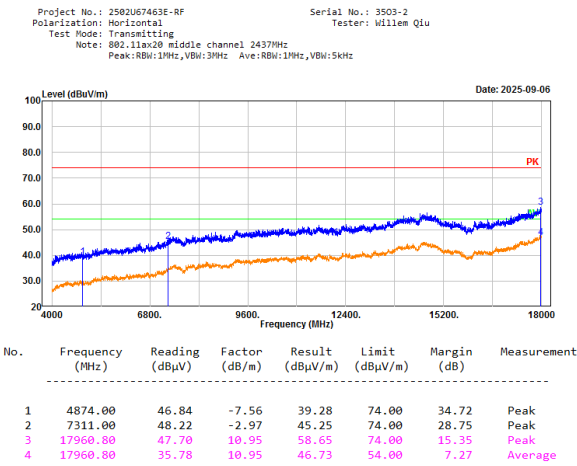
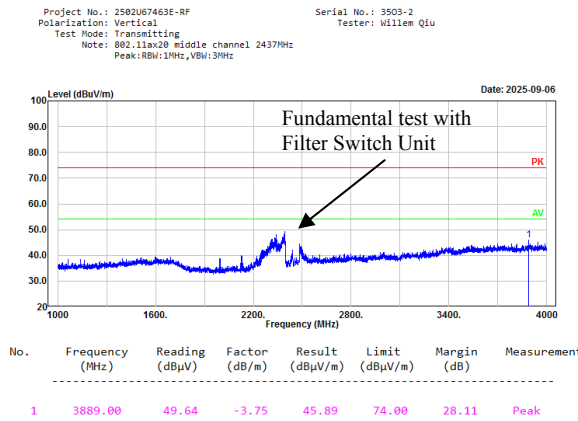
802.11ax20 low channel Vertical



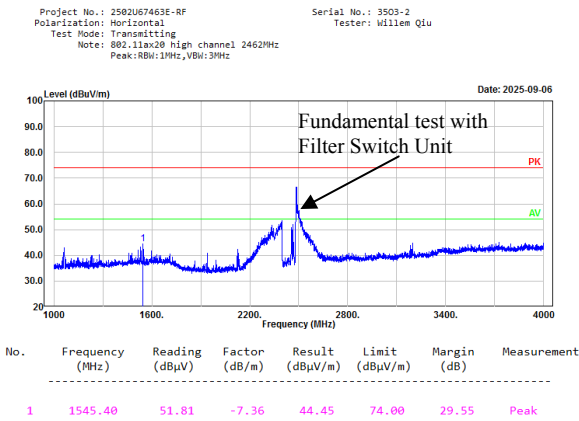
802.11ax20 middle channel Horizontal



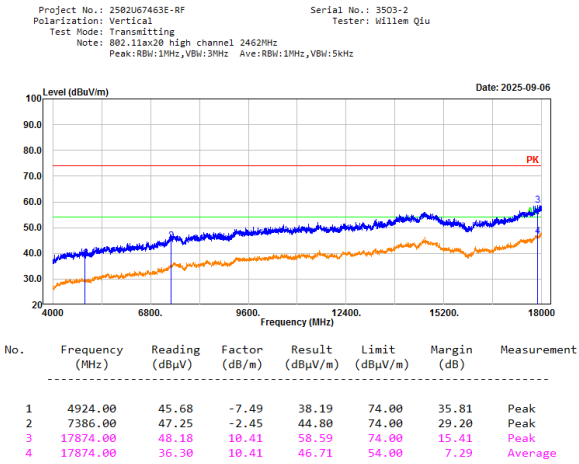
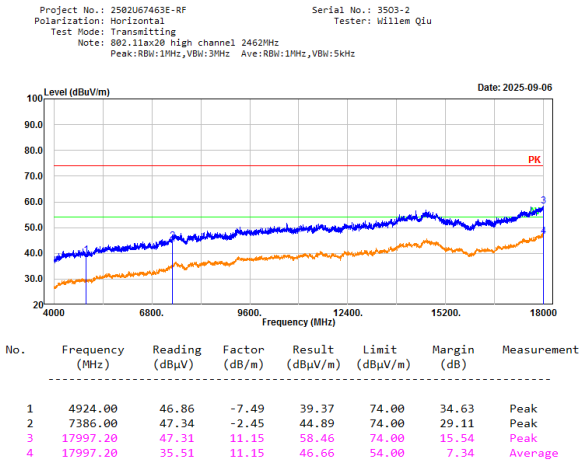
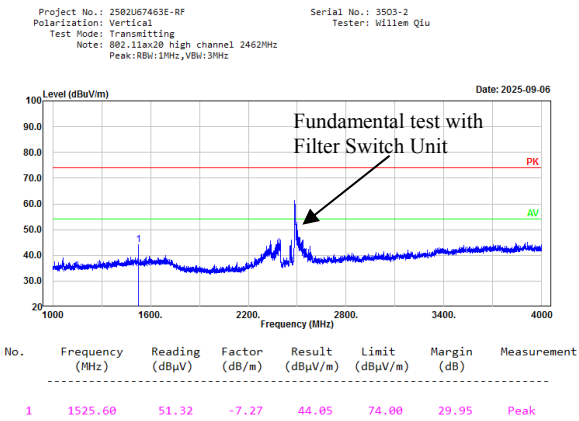
802.11ax20 middle channel Vertical



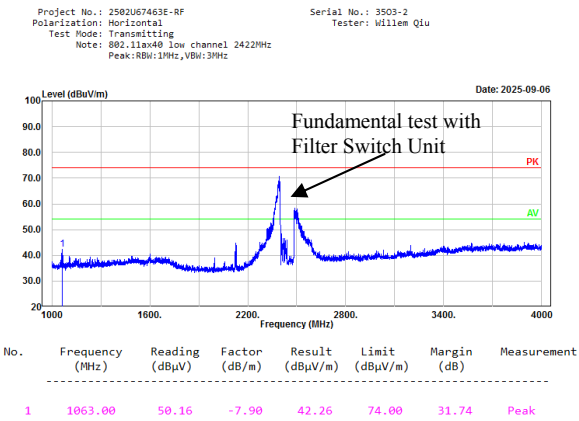
802.11ax20 high channel Horizontal



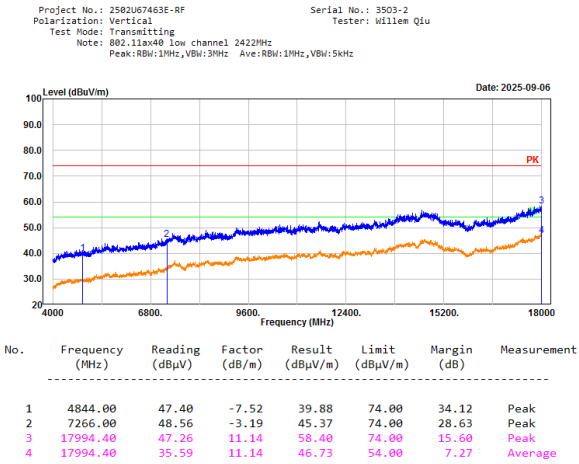
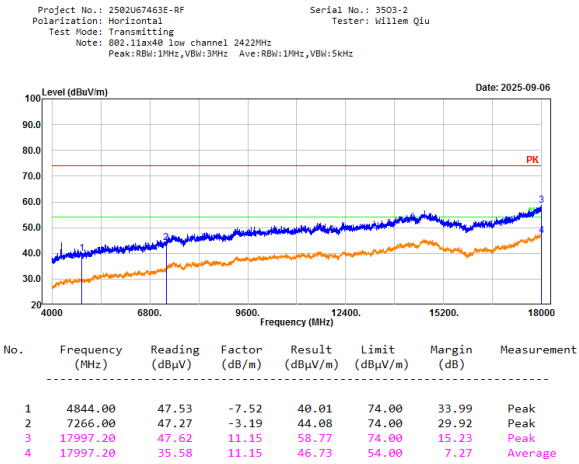
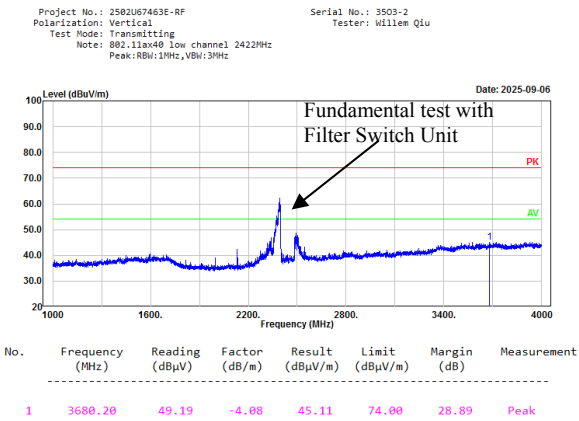
802.11ax20 high channel Vertical



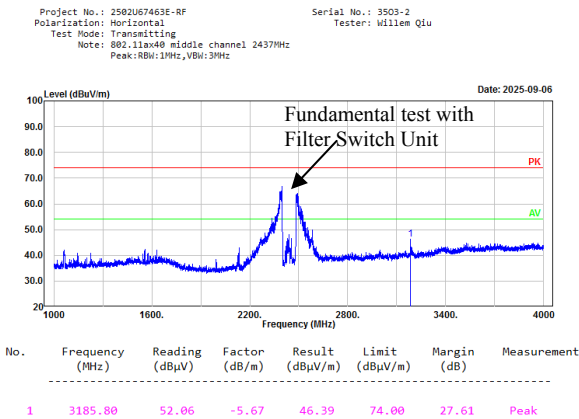
802.11ax40 low channel Horizontal



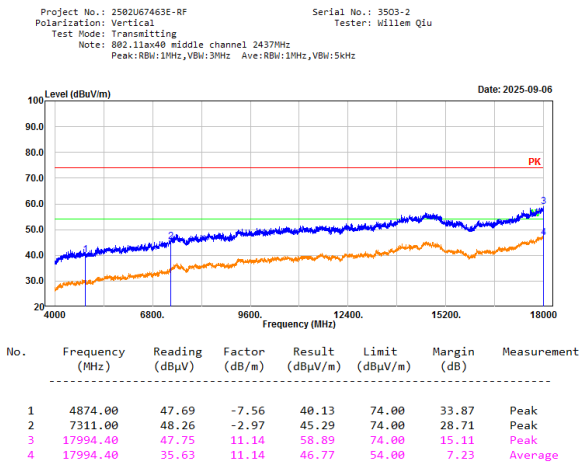
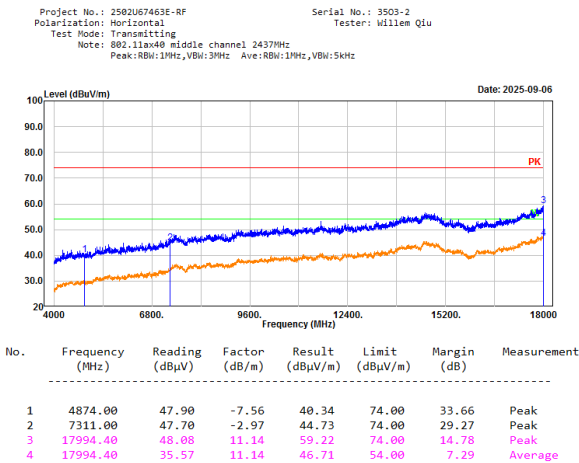
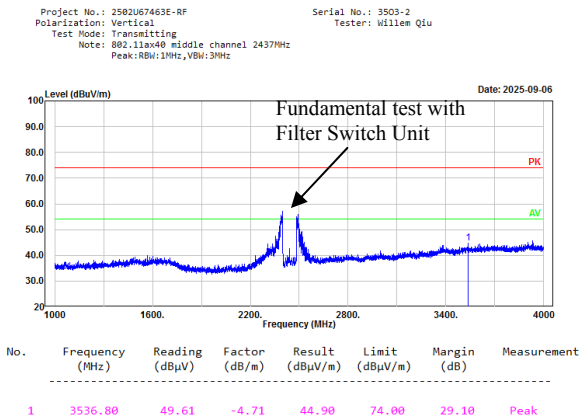
802.11ax40 low channel Vertical



802.11ax40 middle channel Horizontal



802.11ax40 middle channel Vertical



802.11ax40 high channel Horizontal

Project No.: 2502U67463E-RF

Serial No.: 3503-2

Polarization: Horizontal

Tester: Willem Qiu

Test Mode: Transmitting

Note: 802.11ax40 high channel 2452MHz

Peak:RBW:1MHz,VBW:3MHz

Level (dBuV/m)

Fundamental test with Filter Switch Unit

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	1062.40	49.99	-7.90	42.09	74.00	31.91	Peak

802.11ax40 high channel Vertical

Project No.: 2502U67463E-RF

Serial No.: 3503-2

Polarization: Vertical

Tester: Willem Qiu

Test Mode: Transmitting

Note: 802.11ax40 high channel 2452MHz

Peak:RBW:1MHz,VBW:3MHz

Level (dBuV/m)

Fundamental test with Filter Switch Unit

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	3882.40	49.15	-3.90	45.25	74.00	28.75	Peak

Project No.: 2502U67463E-RF

Serial No.: 3503-2

Polarization: Horizontal

Tester: Willem Qiu

Test Mode: Transmitting

Note: 802.11ax40 high channel 2452MHz

Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5KHz

Level (dBuV/m)

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	4904.00	48.27	-7.56	40.71	74.00	33.29	Peak
2	7356.00	47.70	-2.64	45.06	74.00	28.94	Peak
3	17997.00	46.96	11.15	58.11	74.00	15.89	Peak
4	17997.00	35.64	11.15	46.79	54.00	7.21	Average

Project No.: 2502U67463E-RF

Serial No.: 3503-2

Polarization: Vertical

Tester: Willem Qiu

Test Mode: Transmitting

Note: 802.11ax40 high channel 2452MHz

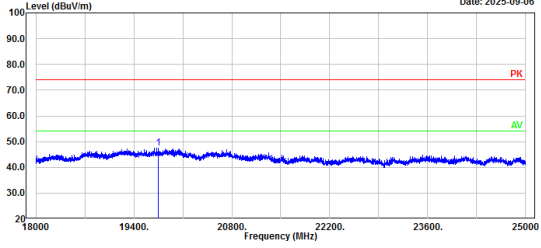
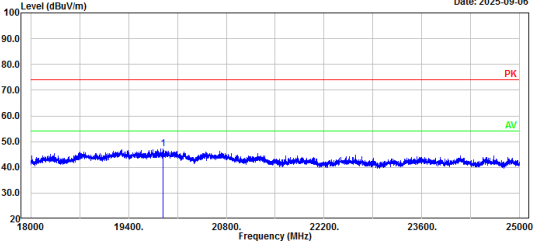
Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5KHz

Level (dBuV/m)

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	4904.00	47.54	-7.56	39.98	74.00	34.02	Peak
2	7356.00	49.23	-2.64	46.59	74.00	27.41	Peak
3	17955.20	47.82	10.91	58.73	74.00	15.27	Peak
4	17955.20	35.81	10.91	46.72	54.00	7.28	Average

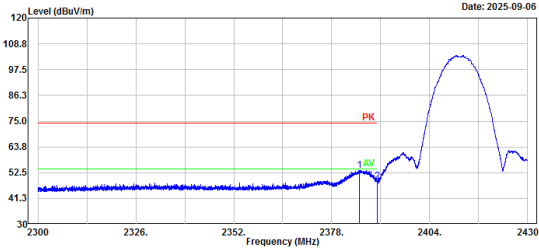
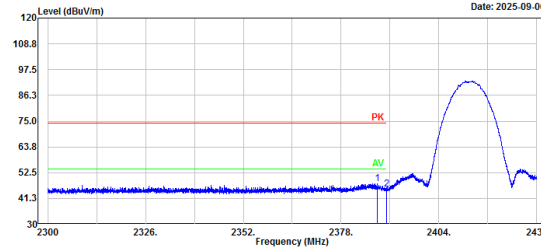
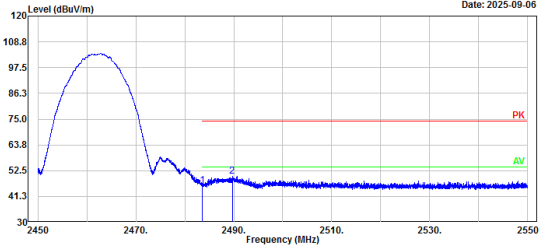
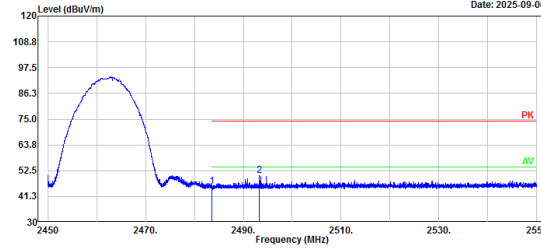
18-25GHz:

No Emission was detected in the range 18-25GHz, test was performed on the mode and channel which with the maximum power.

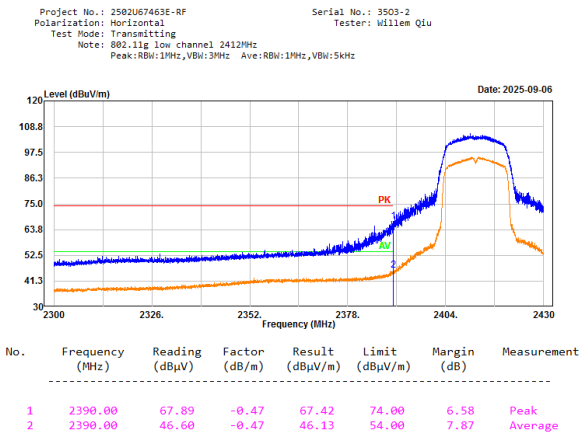
802.11ax40 Low channel Horizontal				802.11ax40 Low channel Vertical			
Project No.: 2502U67463E-RF Polarization: Horizontal Test Mode: Transmitting Note: 2.4G WIFI Peak: RBW:1MHz, VBW:3MHz Serial No.: 3503-2 Tester: Willem Qiu Date: 2025-09-06 				Project No.: 2502U67463E-RF Polarization: Vertical Test Mode: Transmitting Note: 2.4G WIFI Peak: RBW:1MHz, VBW:3MHz Serial No.: 3503-2 Tester: Willem Qiu Date: 2025-09-06 			
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	19752.80	47.07	0.28	47.35	74.00	26.65	Peak

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	19898.40	46.89	0.28	47.09	74.00	26.91	Peak

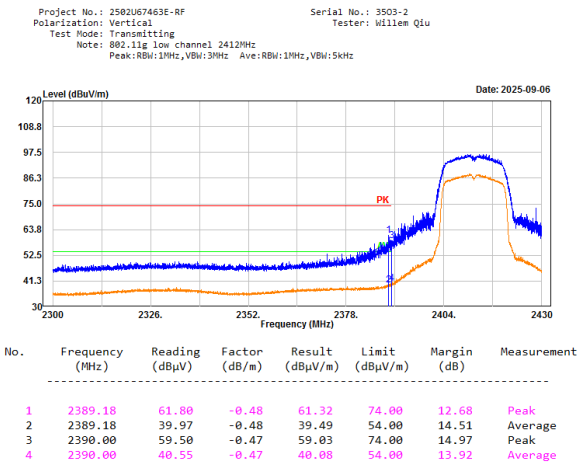
Bandedge:

802.11b Low channel Bandedge Horizontal				802.11b Low channel Bandedge Vertical																																																			
Project No.: 2502U67463E-RF Polarization: Horizontal Test Mode: Transmitting Note: 802.11b low channel 2412MHz Peak:RBW:1MHz,VBW:3MHz Serial No.: 3503-2 Tester: Willem Qiu Date: 2025-09-06  <table><tr><th>No.</th><th>Frequency (MHz)</th><th>Reading (dBμV)</th><th>Factor (dB/m)</th><th>Result (dBμV/m)</th><th>Limit (dBμV/m)</th><th>Margin (dB)</th><th>Measurement</th></tr><tr><td>1</td><td>2385.36</td><td>54.00</td><td>-0.47</td><td>53.53</td><td>74.00</td><td>20.47</td><td>Peak</td></tr><tr><td>2</td><td>2390.00</td><td>49.07</td><td>-0.47</td><td>48.60</td><td>74.00</td><td>25.40</td><td>Peak</td></tr></table>				No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Measurement	1	2385.36	54.00	-0.47	53.53	74.00	20.47	Peak	2	2390.00	49.07	-0.47	48.60	74.00	25.40	Peak	Project No.: 2502U67463E-RF Polarization: Vertical Test Mode: Transmitting Note: 802.11b low channel 2412MHz Peak:RBW:1MHz,VBW:3MHz Serial No.: 3503-2 Tester: Willem Qiu Date: 2025-09-06  <table><tr><th>No.</th><th>Frequency (MHz)</th><th>Reading (dBμV)</th><th>Factor (dB/m)</th><th>Result (dBμV/m)</th><th>Limit (dBμV/m)</th><th>Margin (dB)</th><th>Measurement</th></tr><tr><td>1</td><td>2387.65</td><td>48.29</td><td>-0.47</td><td>47.82</td><td>74.00</td><td>26.18</td><td>Peak</td></tr><tr><td>2</td><td>2390.00</td><td>45.77</td><td>-0.47</td><td>45.30</td><td>74.00</td><td>28.70</td><td>Peak</td></tr></table>				No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Measurement	1	2387.65	48.29	-0.47	47.82	74.00	26.18	Peak	2	2390.00	45.77	-0.47	45.30	74.00	28.70	Peak
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Measurement																																																
1	2385.36	54.00	-0.47	53.53	74.00	20.47	Peak																																																
2	2390.00	49.07	-0.47	48.60	74.00	25.40	Peak																																																
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Measurement																																																
1	2387.65	48.29	-0.47	47.82	74.00	26.18	Peak																																																
2	2390.00	45.77	-0.47	45.30	74.00	28.70	Peak																																																
802.11b high channel Bandedge Horizontal				802.11b high channel Bandedge Vertical																																																			
Project No.: 2502U67463E-RF Polarization: Horizontal Test Mode: Transmitting Note: 802.11b high channel 2462MHz Peak:RBW:1MHz,VBW:3MHz Serial No.: 3503-2 Tester: Willem Qiu Date: 2025-09-06  <table><tr><th>No.</th><th>Frequency (MHz)</th><th>Reading (dBμV)</th><th>Factor (dB/m)</th><th>Result (dBμV/m)</th><th>Limit (dBμV/m)</th><th>Margin (dB)</th><th>Measurement</th></tr><tr><td>1</td><td>2483.50</td><td>46.24</td><td>-0.30</td><td>45.94</td><td>74.00</td><td>28.06</td><td>Peak</td></tr><tr><td>2</td><td>2489.68</td><td>50.40</td><td>-0.28</td><td>50.12</td><td>74.00</td><td>23.88</td><td>Peak</td></tr></table>				No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Measurement	1	2483.50	46.24	-0.30	45.94	74.00	28.06	Peak	2	2489.68	50.40	-0.28	50.12	74.00	23.88	Peak	Project No.: 2502U67463E-RF Polarization: Vertical Test Mode: Transmitting Note: 802.11b high channel 2462MHz Peak:RBW:1MHz,VBW:3MHz Serial No.: 3503-2 Tester: Willem Qiu Date: 2025-09-06  <table><tr><th>No.</th><th>Frequency (MHz)</th><th>Reading (dBμV)</th><th>Factor (dB/m)</th><th>Result (dBμV/m)</th><th>Limit (dBμV/m)</th><th>Margin (dB)</th><th>Measurement</th></tr><tr><td>1</td><td>2483.50</td><td>45.88</td><td>-0.30</td><td>45.58</td><td>74.00</td><td>28.42</td><td>Peak</td></tr><tr><td>2</td><td>2493.32</td><td>50.51</td><td>-0.29</td><td>50.22</td><td>74.00</td><td>23.78</td><td>Peak</td></tr></table>				No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Measurement	1	2483.50	45.88	-0.30	45.58	74.00	28.42	Peak	2	2493.32	50.51	-0.29	50.22	74.00	23.78	Peak
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Measurement																																																
1	2483.50	46.24	-0.30	45.94	74.00	28.06	Peak																																																
2	2489.68	50.40	-0.28	50.12	74.00	23.88	Peak																																																
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Measurement																																																
1	2483.50	45.88	-0.30	45.58	74.00	28.42	Peak																																																
2	2493.32	50.51	-0.29	50.22	74.00	23.78	Peak																																																

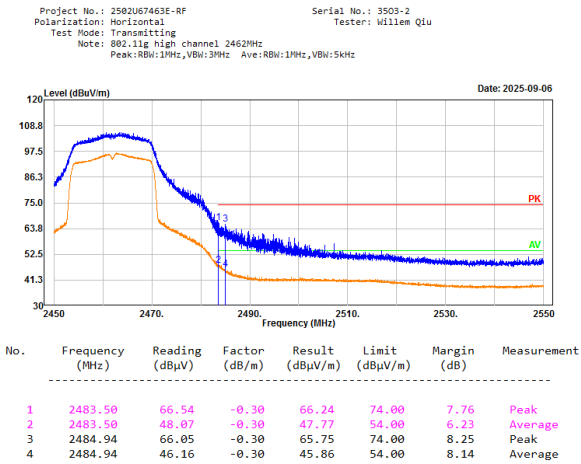
802.11g Low channel Bandedge Horizontal



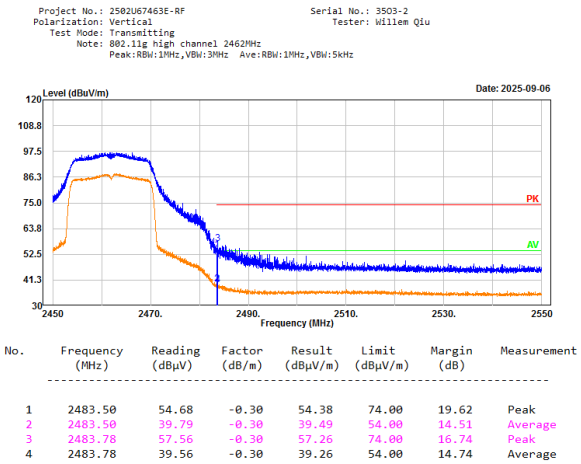
802.11g Low channel Bandedge Vertical



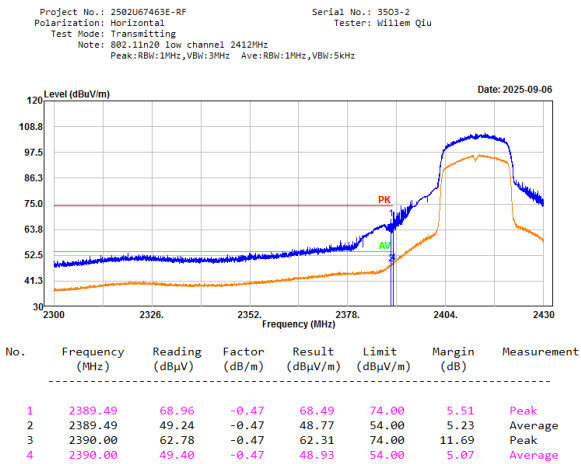
802.11g high channel Bandedge Horizontal



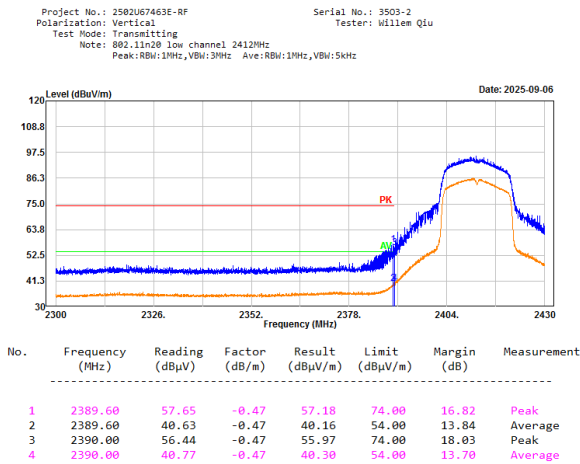
802.11g high channel Bandedge Vertical



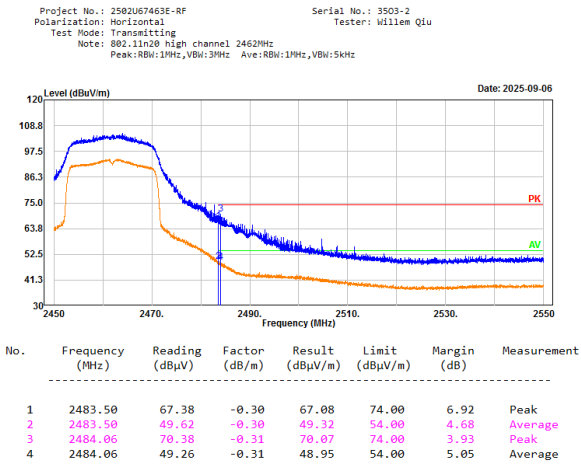
802.11n20 low channel Bandedge Horizontal



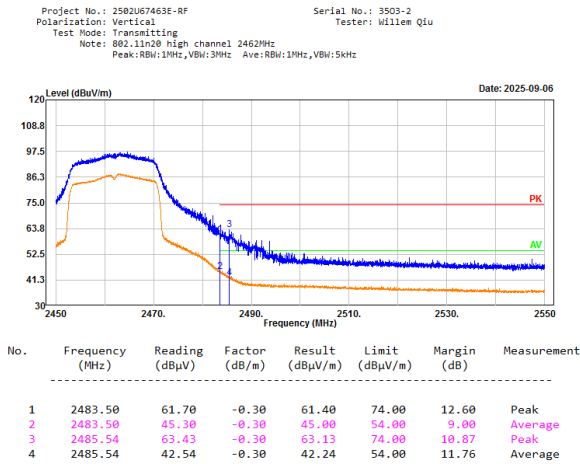
802.11n20 low channel Bandedge Vertical



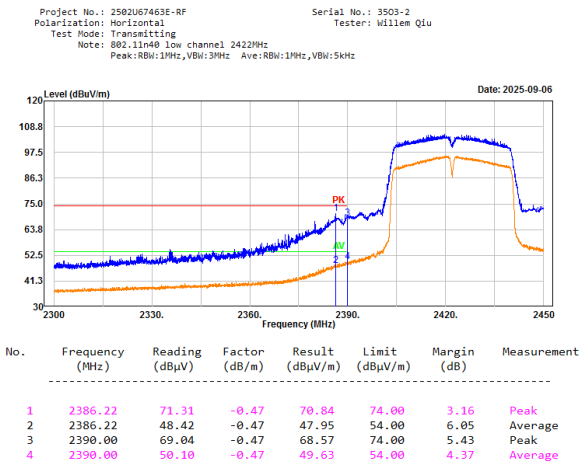
802.11n20 High channel Bandedge Horizontal



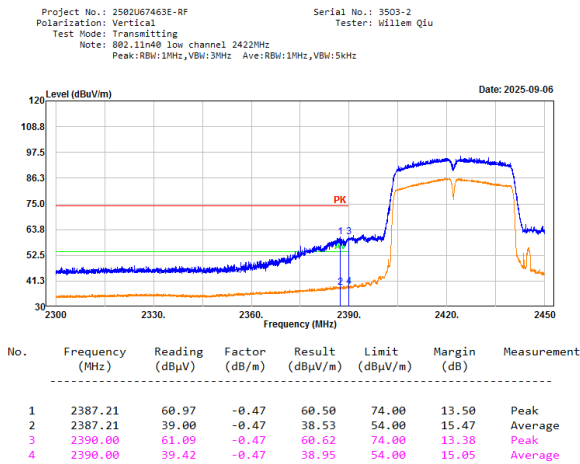
802.11n20 High channel Bandedge Vertical



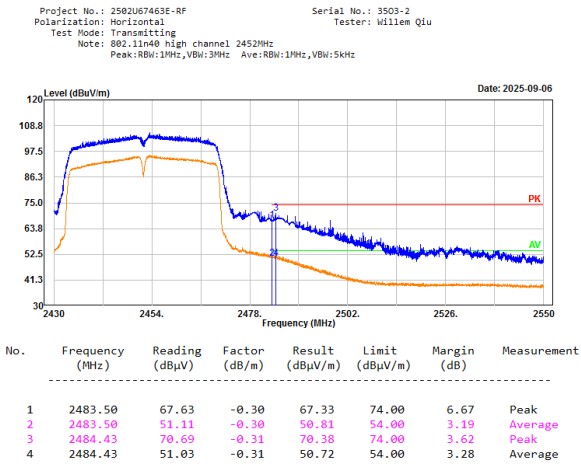
802.11n40 low channel Bandedge Horizontal



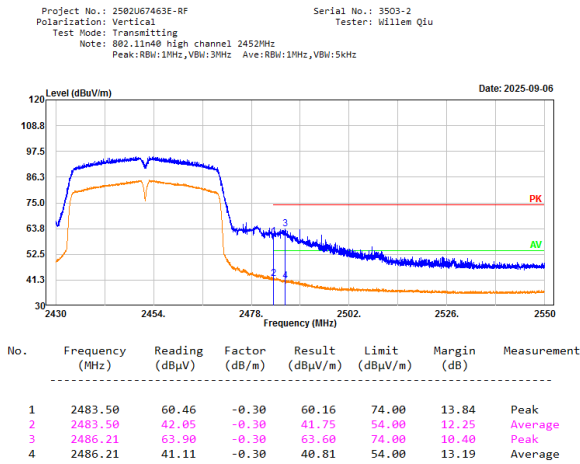
802.11n40 low channel Bandedge Vertical



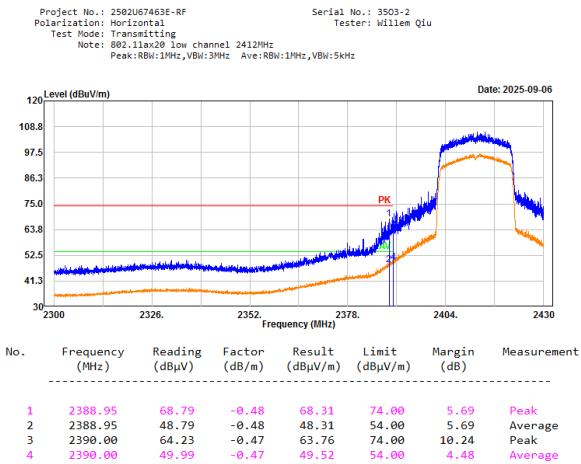
802.11n40 High channel Bandedge Horizontal



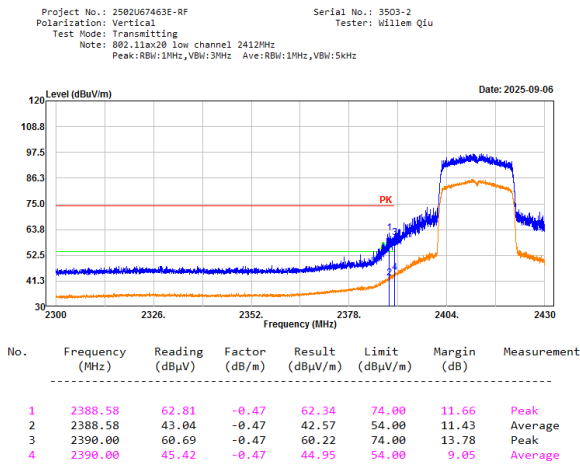
802.11n40 High channel Bandedge Vertical



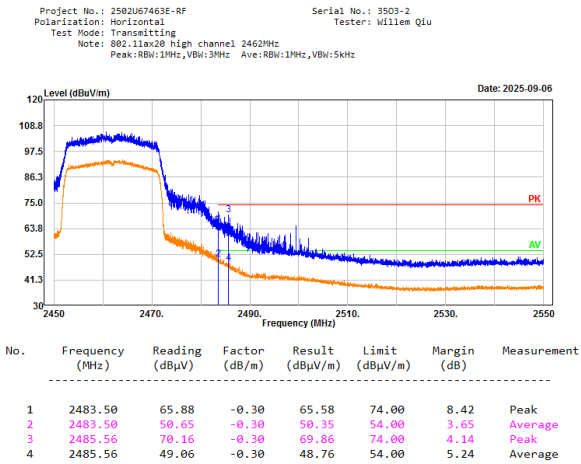
802.11ax20 Low hannel Bandedge Horizontal



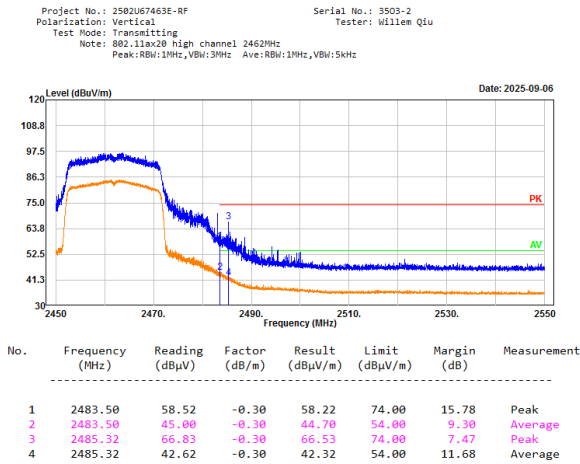
802.11ax20 Low channel Bandedge Vertical



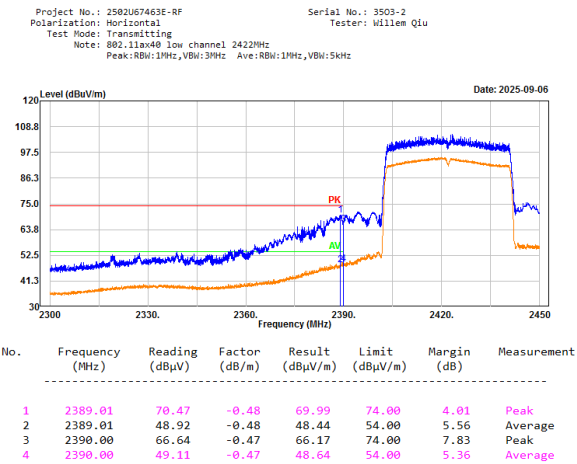
802.11ax20 high channel Bandedge Horizontal



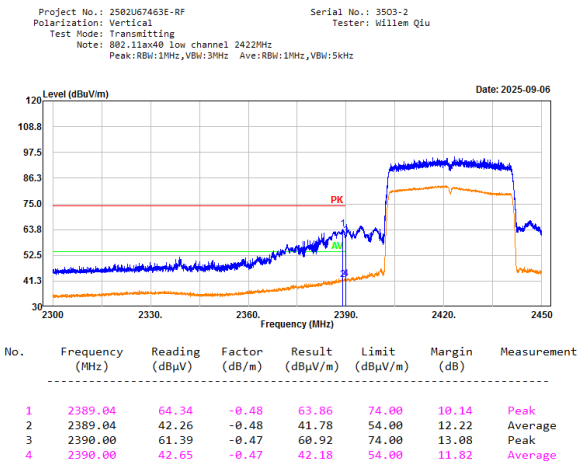
802.11ax20 high channel Bandedge Vertical



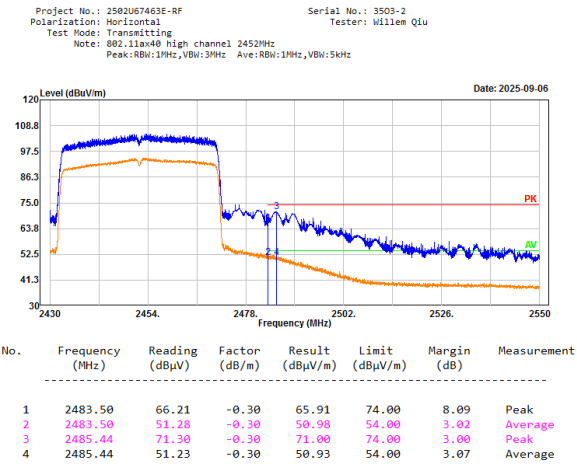
802.11ax40 Low channel Bandedge Horizontal



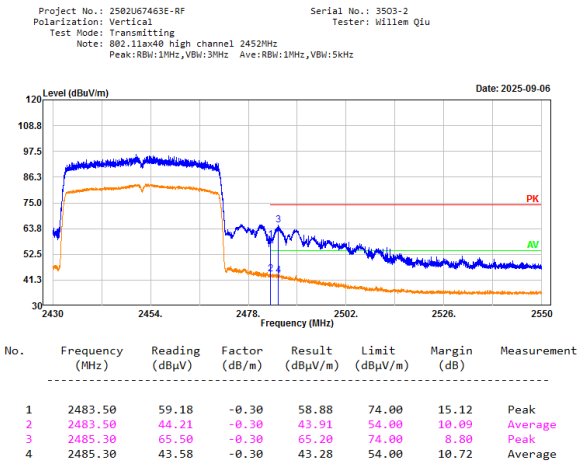
802.11ax40 Low channel Bandedge Vertical



802.11ax40 high channel Bandedge Horizontal



802.11ax40 high channel Bandedge Vertical



5.3 6dB Emission Bandwidth

Test Information:

Serial No.:	3503-1	Test Date:	2025/07/26
Test Site:	RF	Test Mode:	Transmitting
Tester:	Rini Yan	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	24.8	Relative Humidity: (%)	58	ATM Pressure: (kPa)	100
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Test Equipment List and Details:

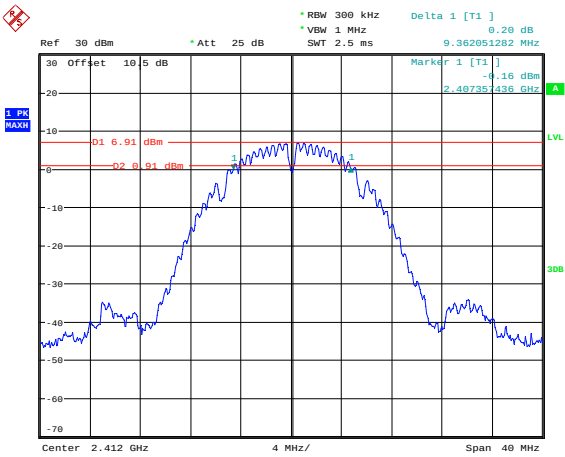
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSU 26	200160/026	2024/9/5	2025/9/4
Eastsheep	Coaxial Attenuator	5W-N-JK-6G-10dB	F-08-EM504	2025/6/6	2026/6/5

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

Test Data:

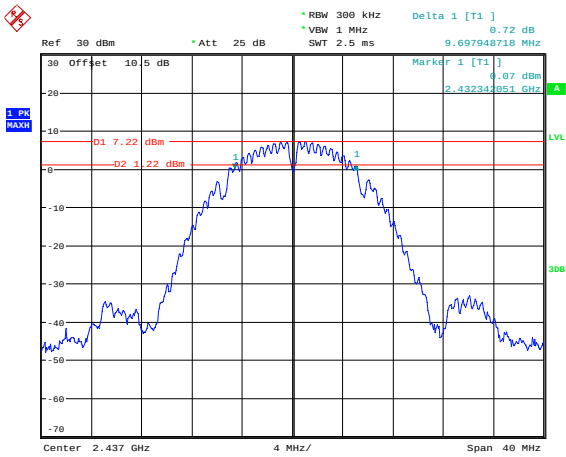
Mode	Test Frequency (MHz)	Result (MHz)	Limit (MHz)	Verdict
802.11b	2412	9.362	0.5	Pass
	2437	9.698	0.5	Pass
	2462	9.372	0.5	Pass
802.11g	2412	16.487	0.5	Pass
	2437	16.487	0.5	Pass
	2462	16.641	0.5	Pass
802.11n ht20	2412	17.667	0.5	Pass
	2437	17.731	0.5	Pass
	2462	17.81	0.5	Pass
802.11n ht40	2422	36.744	0.5	Pass
	2437	36.538	0.5	Pass
	2452	36.819	0.5	Pass
802.11ax he20	2412	19.103	0.5	Pass
	2437	19.141	0.5	Pass
	2462	19.185	0.5	Pass
802.11ax he40	2422	38.538	0.5	Pass
	2437	38.205	0.5	Pass
	2452	38.282	0.5	Pass

802.11b_2412MHz



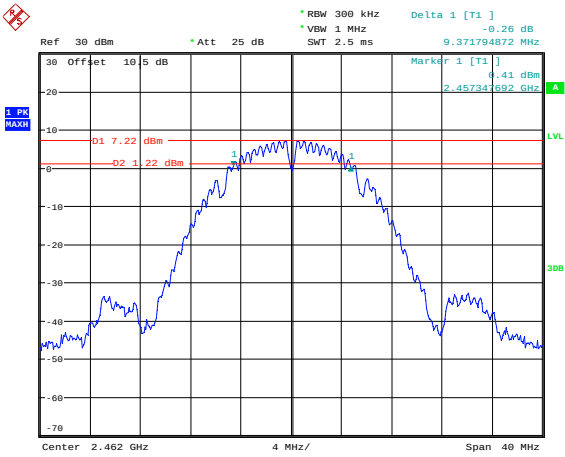
ProjectNo.:2502U67463E-RF Tester:Rini Yan
Date: 26.JUL.2025 14:41:12

802.11b_2437MHz



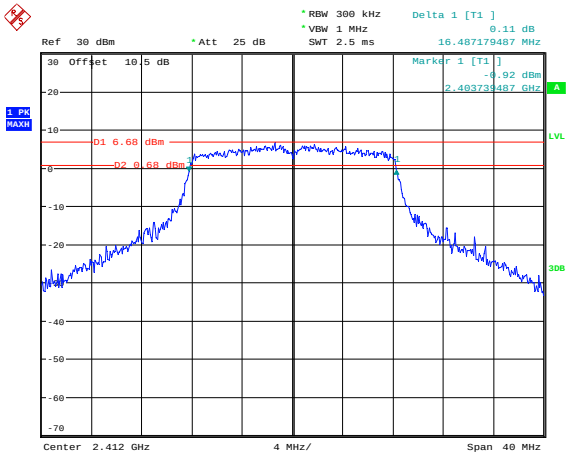
ProjectNo.:2502U67463E-RF Tester:Rini Yan
Date: 26.JUL.2025 14:38:54

802.11b_2462MHz



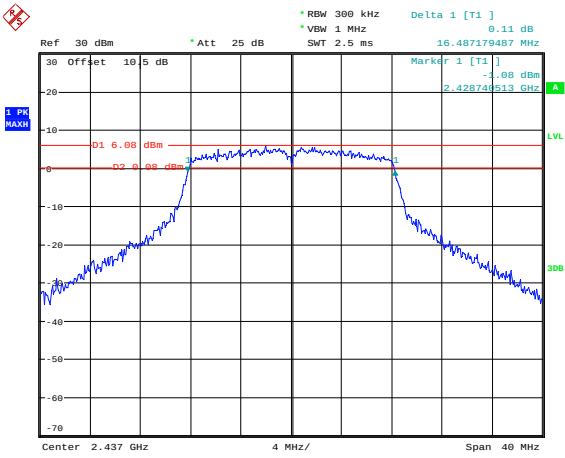
ProjectNo.:2502U67463E-RF Tester:Rini Yan
Date: 26.JUL.2025 14:40:13

802.11g_2412MHz



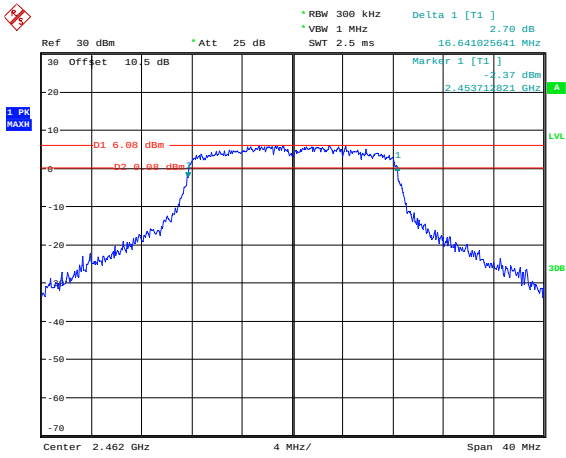
ProjectNo.:2502U67463E-RF Tester:Rini Yan
Date: 26.JUL.2025 14:42:53

802.11g_2437MHz



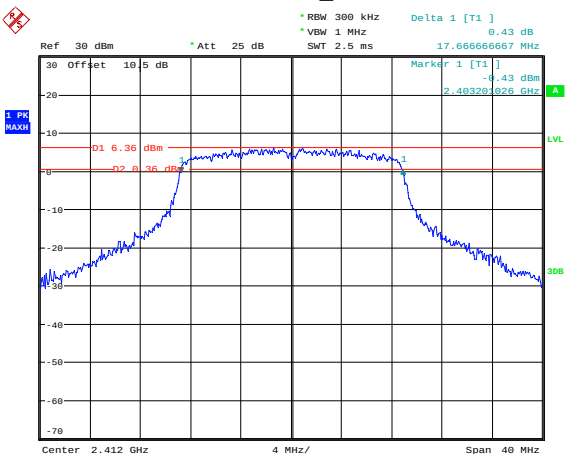
ProjectNo.:2502U67463E-RF Tester:Rini Yan
Date: 26.JUL.2025 14:44:48

802.11g_2462MHz



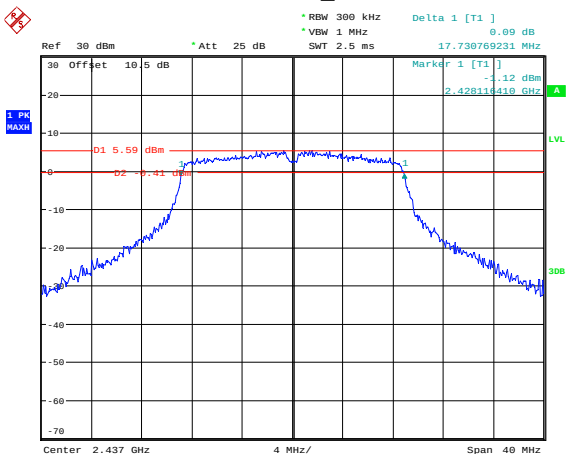
ProjectNo.:2502U67463E-RF Tester:Rini Yan
Date: 26.JUL.2025 14:46:19

802.11n20_2412MHz



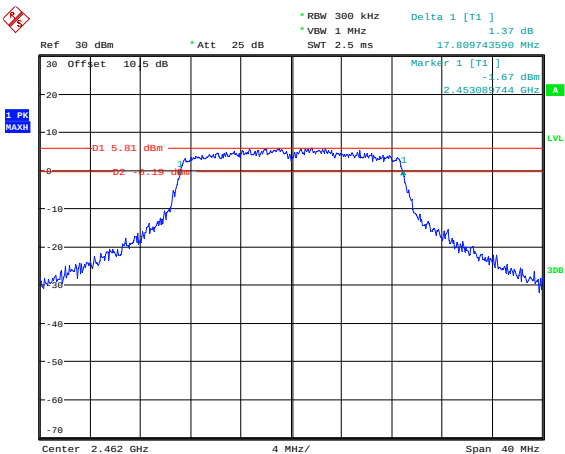
ProjectNo.:2502U67463E-RF Tester:Rini Yan
Date: 26.JUL.2025 14:47:54

802.11n20_2437MHz



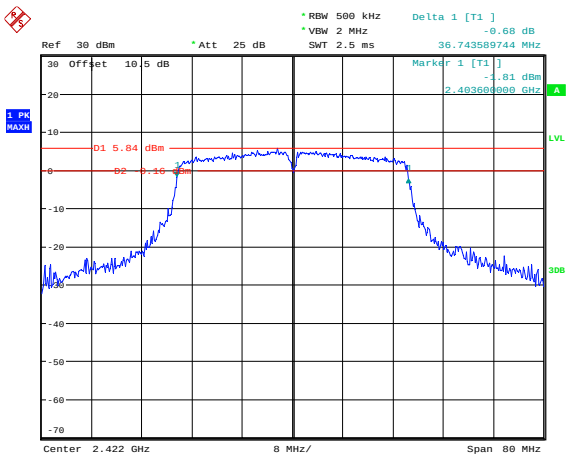
ProjectNo.:2502U67463E-RF Tester:Rini Yan
Date: 26.JUL.2025 14:49:22

802.11n20_2462MHz



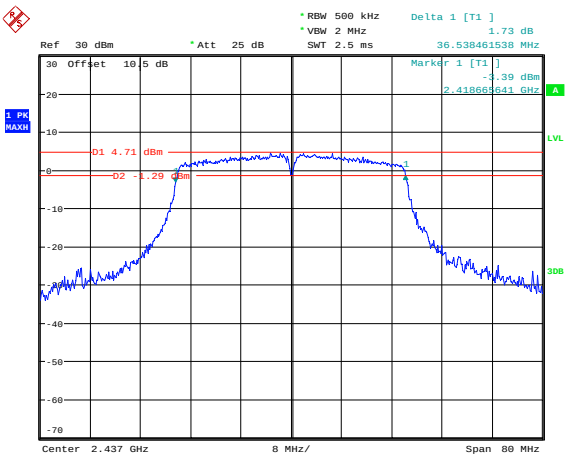
ProjectNo.:2502U67463E-RF Tester:Rini Yan
Date: 26.JUL.2025 14:50:26

802.11n40_2422MHz



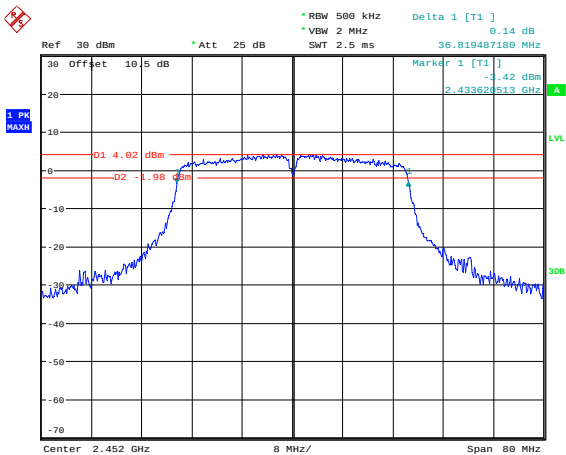
ProjectNo.:2502U67463E-RF Tester:Rini Yan
Date: 26.JUL.2025 14:52:43

802.11n40_2437MHz

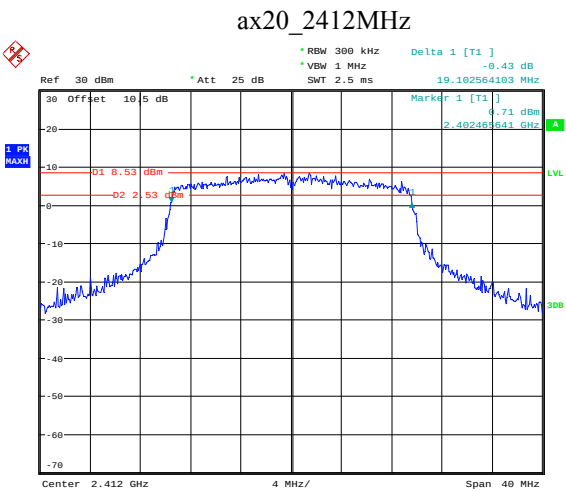


ProjectNo.:2502U67463E-RF Tester:Rini Yan
Date: 26.JUL.2025 14:55:24

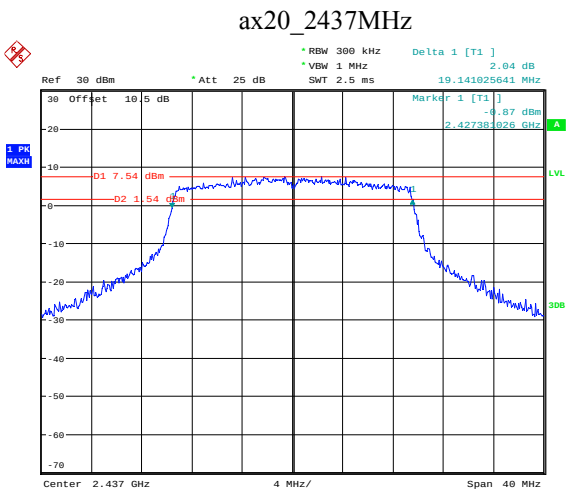
802.11n40_2452MHz



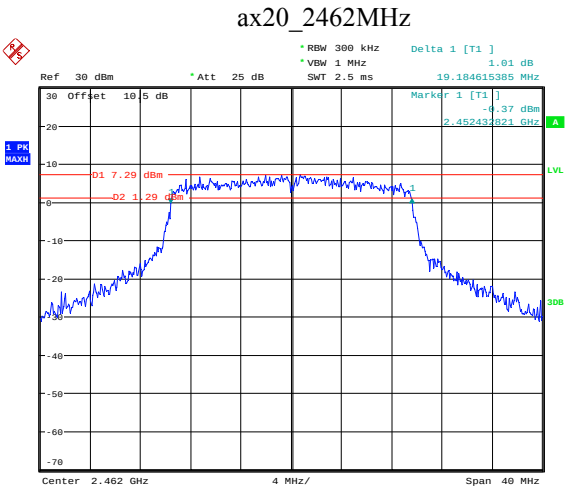
ProjectNo.:2502U67463E-RF Tester:Rini Yan
Date: 26.JUL.2025 14:57:06



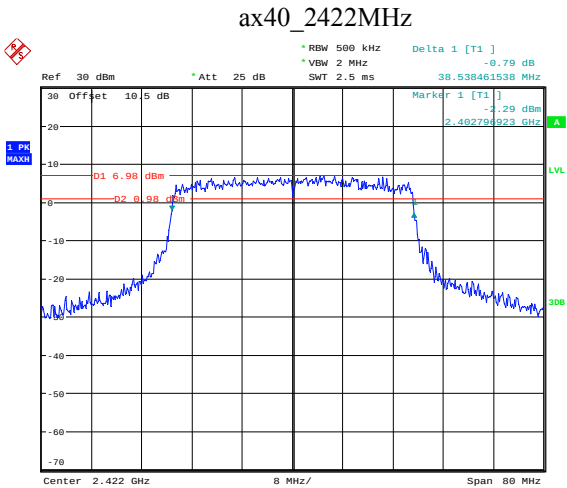
ProjectNo.:2502U67463E-RF Tester:Rini Yan
Date: 26.JUL.2025 16:03:42



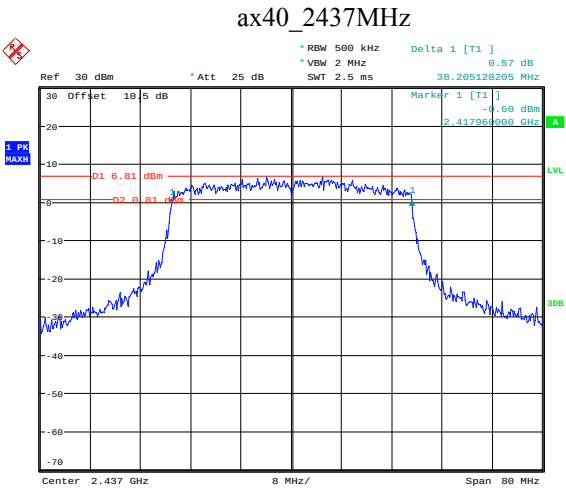
ProjectNo.:2502U67463E-RF Tester:Rini Yan
Date: 26.JUL.2025 16:18:08



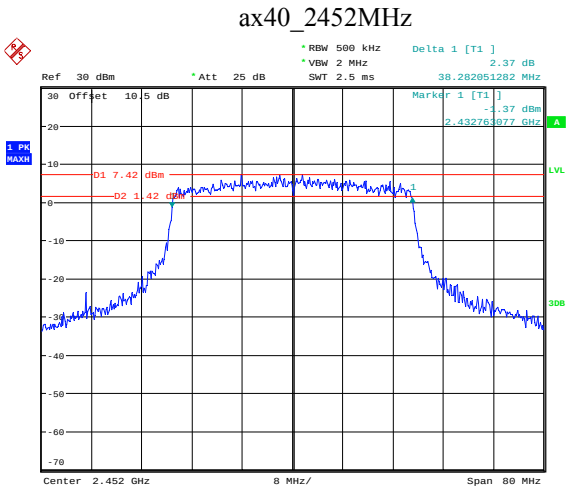
ProjectNo.:2502U67463E-RF Tester:Rini Yan
Date: 26.JUL.2025 16:23:08



ProjectNo.:2502U67463E-RF Tester:Rini Yan
Date: 26.JUL.2025 15:05:46



ProjectNo.:2502U67463E-RF Tester:Rini Yan
Date: 26.JUL.2025 15:08:19



ProjectNo.:2502U67463E-RF Tester:Rini Yan
Date: 26.JUL.2025 15:39:24

5.4 99% Occupied Bandwidth

Test Information:

Serial No.:	35O3-1	Test Date:	2025/7/26
Test Site:	RF	Test Mode:	Transmitting
Tester:	Rini Yan	Test Result:	N/A

Environmental Conditions:

Temperature: (°C)	24.8	Relative Humidity: (%)	58	ATM Pressure: (kPa)	100
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Test Equipment List and Details:

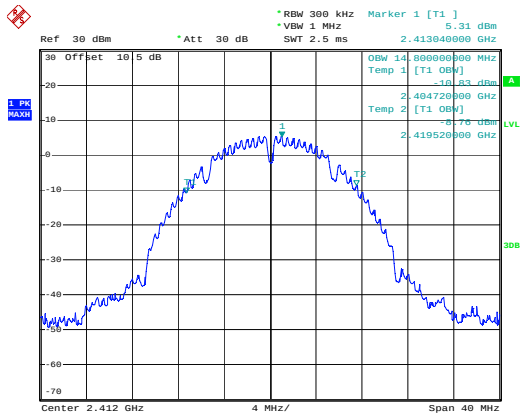
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Eastsheep	Coaxial Attenuator	5W-N-JK-6G-10dB	F-08-EM504	2025/6/6	2026/6/5
R&S	Spectrum Analyzer	FSU 26	200160/026	2024/9/5	2025/9/4

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

Test Data:

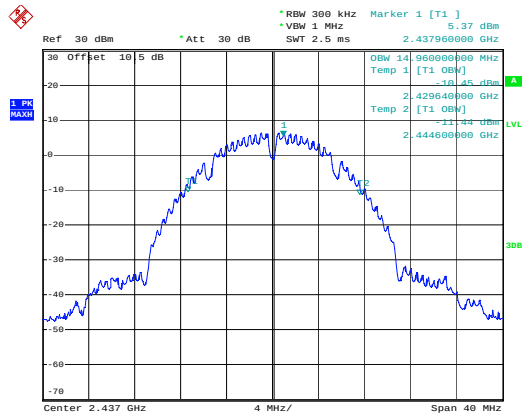
Test Modes	Test Channel	Test Frequency (MHz)	99% Occupied Bandwidth (MHz)
802.11b	Lowest	2412	14.8
	Middle	2437	14.96
	Highest	2462	14.88
802.11g	Lowest	2412	17.36
	Middle	2437	17.12
	Highest	2462	17.12
802.11n ht20	Lowest	2412	18.56
	Middle	2437	18.32
	Highest	2462	18.32
802.11n ht40	Lowest	2422	36.28
	Middle	2437	36.79
	Highest	2452	36.54
802.11ax he20	Lowest	2412	19.36
	Middle	2437	19.28
	Highest	2462	19.28
802.11ax he40	Lowest	2422	38.08
	Middle	2437	37.95
	Highest	2452	37.95

802.11b_2412MHz



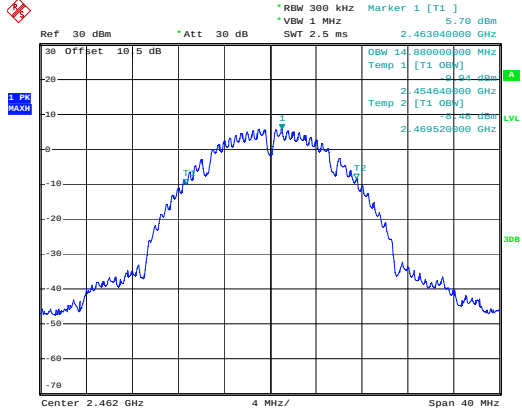
ProjectNo.:2502U67463E-RF Tester:Rini Yan
Date: 26.JUL.2025 17:26:21

802.11b_2437MHz



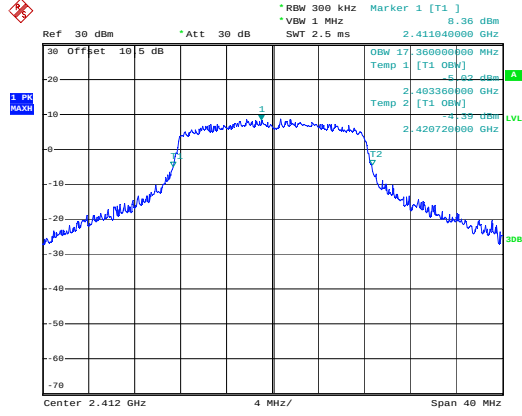
ProjectNo.:2502U67463E-RF Tester:Rini Yan
Date: 26.JUL.2025 17:32:44

802.11b_2462MHz



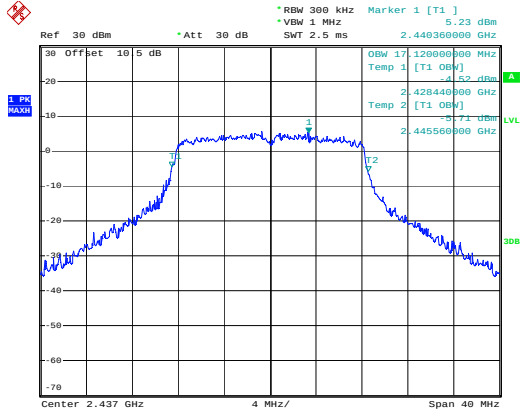
ProjectNo.:2502U67463E-RF Tester:Rini Yan
Date: 26.JUL.2025 17:31:33

802.11g_2412MHz



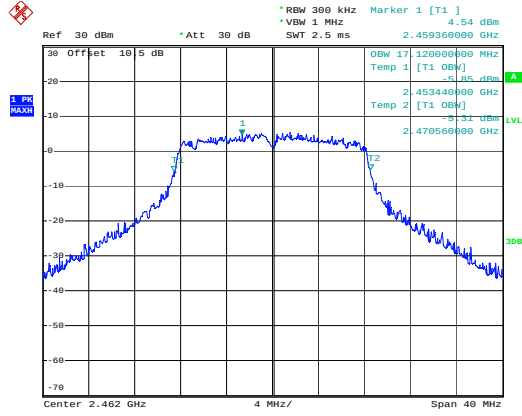
ProjectNo.:2502U67463E-RF Tester:Rini Yan
Date: 26.JUL.2025 17:33:59

802.11g_2437MHz



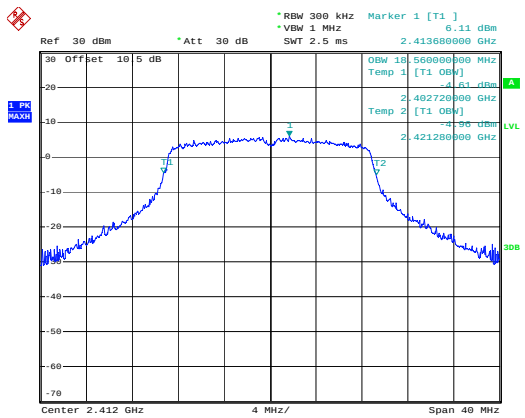
ProjectNo.:2502U67463E-RF Tester:Rini Yan
Date: 26.JUL.2025 17:35:33

802.11g_2462MHz



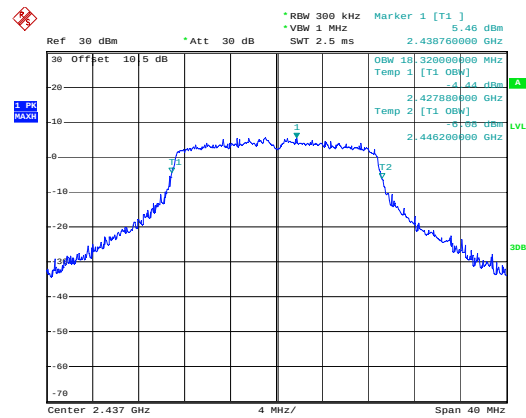
ProjectNo.:2502U67463E-RF Tester:Rini Yan
Date: 26.JUL.2025 17:36:44

802.11n20_2412MHz



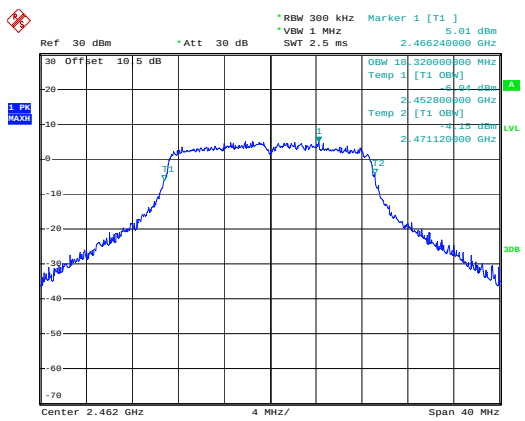
ProjectNo.:2502U67463E-RF Tester:Rini Yan
Date: 26.JUL.2025 17:39:14

802.11n20_2437MHz



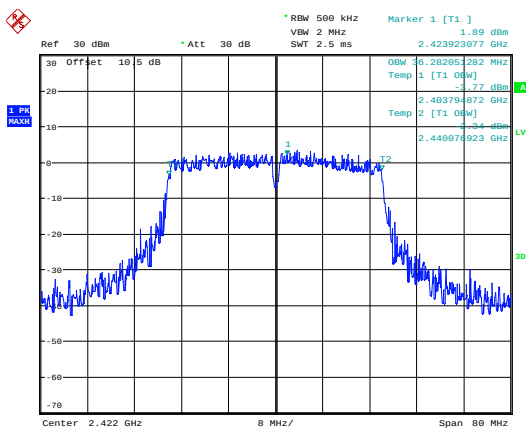
ProjectNo.:2502U67463E-RF Tester:Rini Yan
Date: 26.JUL.2025 17:49:48

802.11n20_2462MHz



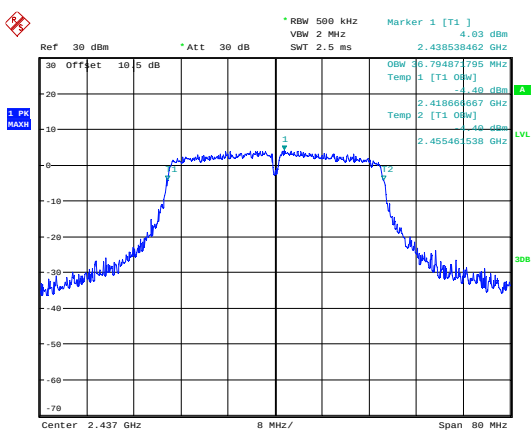
ProjectNo.:2502U67463E-RF Tester:Rini Yan
Date: 26.JUL.2025 17:41:39

802.11n40_2422MHz



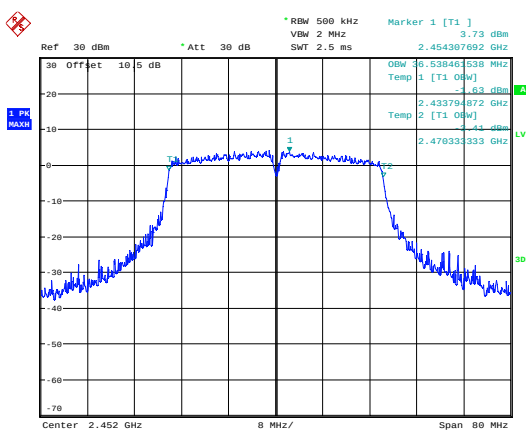
ProjectNo.:2502U67463E-RF Tester:Rini Yan
Date: 26.JUL.2025 18:29:24

802.11n40_2437MHz



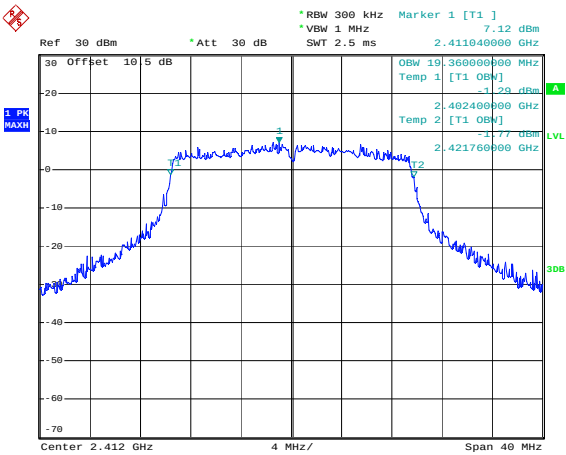
ProjectNo.:2502U67463E-RF Tester:Rini Yan
Date: 26.JUL.2025 18:31:21

802.11n40_2452MHz



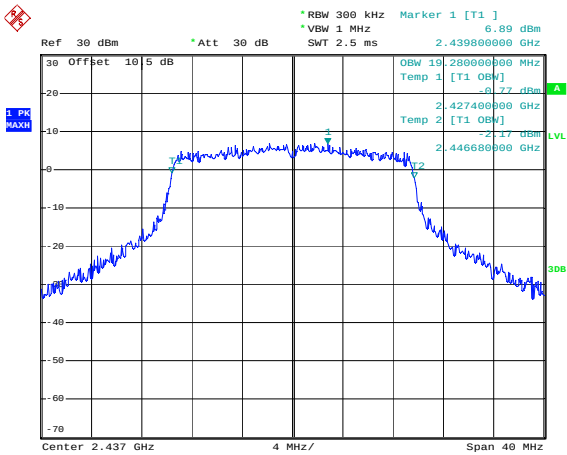
ProjectNo.:2502U67463E-RF Tester:Rini Yan
Date: 26.JUL.2025 18:33:38

802.11ax20_2412MHz



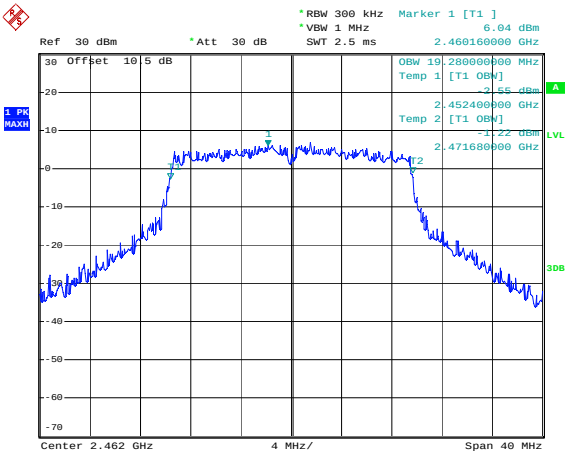
ProjectNo.:2502U67463E-RF Tester:Rini Yan
Date: 26.JUL.2025 17:52:52

802.11ax20_2437MHz



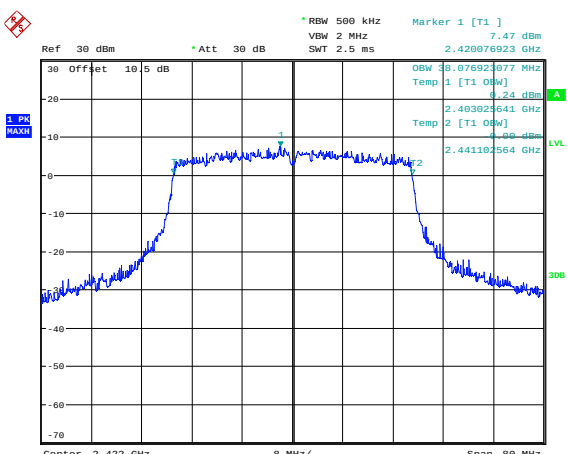
ProjectNo.:2502U67463E-RF Tester:Rini Yan
Date: 26.JUL.2025 17:54:21

802.11ax20_2462MHz



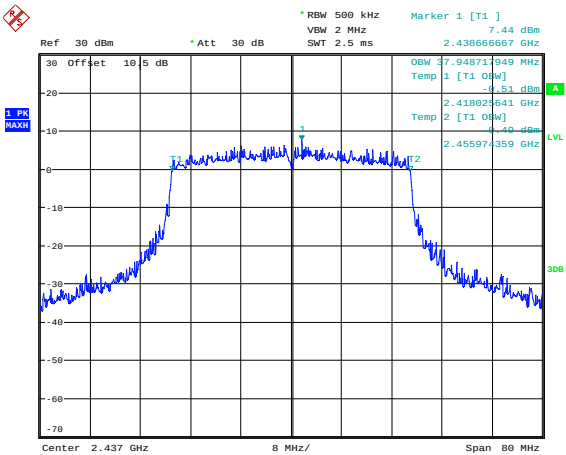
ProjectNo.:2502U67463E-RF Tester:Rini Yan
Date: 26.JUL.2025 17:55:14

802.11ax40_2422MHz



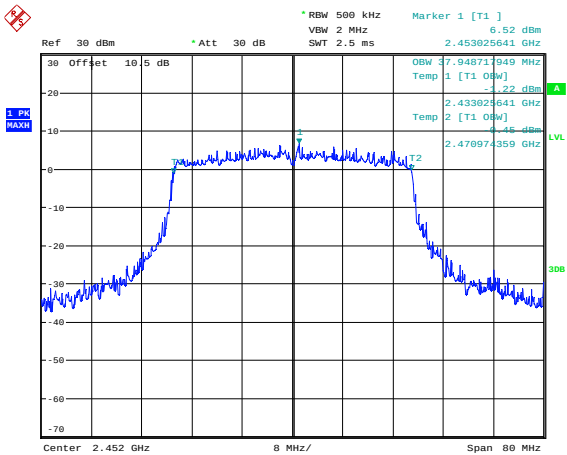
ProjectNo.:2502U67463E-RF Tester:Rini Yan
Date: 26.JUL.2025 18:37:20

802.11ax40_2437MHz



ProjectNo.:2502U67463E-RF Tester:Rini Yan
Date: 26.JUL.2025 18:39:57

802.11ax40_2452MHz



ProjectNo.:2502U67463E-RF Tester:Rini Yan
Date: 26.JUL.2025 18:41:10

5.5 Maximum Conducted Output Power

Test Information:

Serial No.:	35O3-1	Test Date:	2025/7/26
Test Site:	RF	Test Mode:	Transmitting
Tester:	Rini Yan	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	24.8	Relative Humidity: (%)	58	ATM Pressure: (kPa)	100
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Eastsheep	Coaxial Attenuator	5W-N-JK-6G-10dB	F-08-EM504	2025/6/6	2026/6/5
Anritsu	Microwave Peak Power Sensor	MA24418A	12618	2024/8/27	2025/8/26

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

Test Data:

Test Modes	Test Frequency (MHz)	Maximum Conducted Peak Output Power (dBm)	Limit (dBm)
802.11b	2412	18.26	30
	2437	18.53	30
	2462	18.77	30
802.11g	2412	21.25	30
	2437	21.21	30
	2462	21.66	30
802.11n ht20	2412	21.89	30
	2437	21.37	30
	2462	21.92	30
802.11n ht40	2422	21.78	30
	2437	21.43	30
	2452	21.45	30
802.11ax he20	2412	21.78	30
	2437	21.59	30
	2462	21.43	30
802.11ax he40	2422	22.43	30
	2437	21.97	30
	2452	21.79	30

5.6 Power Spectral Density

Test Information:

Serial No.:	3503-1	Test Date:	2025/7/26
Test Site:	RF	Test Mode:	Transmitting
Tester:	Rini Yan	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	24.8	Relative Humidity: (%)	58	ATM Pressure: (kPa)	100
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Test Equipment List and Details:

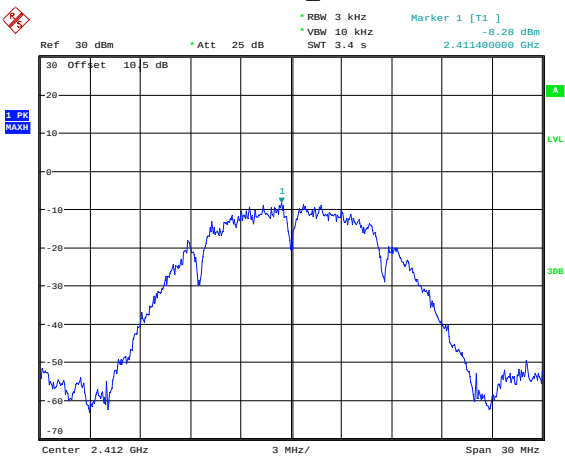
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Eastsheep	Coaxial Attenuator	5W-N-JK-6G-10dB	F-08-EM504	2025/6/6	2026/6/5
R&S	Spectrum Analyzer	FSU 26	200160/026	2024/9/5	2025/9/4

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

Test Data:

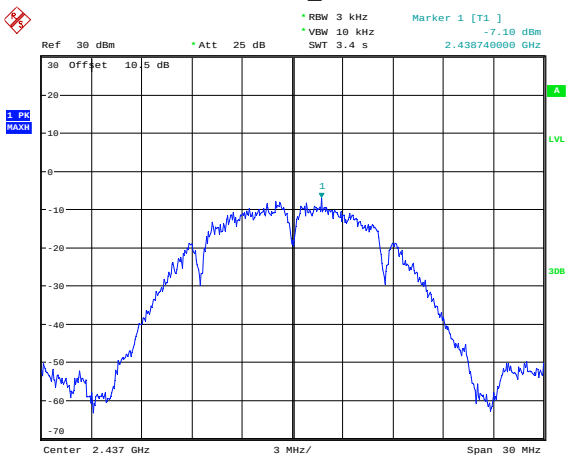
Mode	Test Frequency (MHz)	Maximum Conducted Peak Output Power (dBm)	Limit (dBm)	Verdict
802.11b	2412	-8.28	8.00	Pass
	2437	-7.1	8.00	Pass
	2462	-6.95	8.00	Pass
802.11g	2412	-11.55	8.00	Pass
	2437	-12.4	8.00	Pass
	2462	-11.07	8.00	Pass
802.11n ht20	2412	-11.16	8.00	Pass
	2437	-12.11	8.00	Pass
	2462	-11.88	8.00	Pass
802.11n ht40	2422	-14.07	8.00	Pass
	2437	-13.91	8.00	Pass
	2452	-14.84	8.00	Pass
802.11ax he20	2412	-12.87	8.00	Pass
	2437	-11.68	8.00	Pass
	2462	-10.74	8.00	Pass
802.11ax he40	2422	-15.02	8.00	Pass
	2437	-15.85	8.00	Pass
	2452	-15.23	8.00	Pass

802.11b_2412MHz



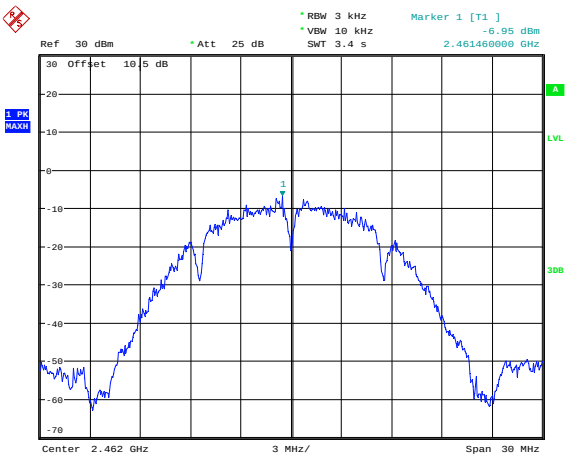
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Date: 26.JUL.2025 11:20:57

802.11b_2437MHz



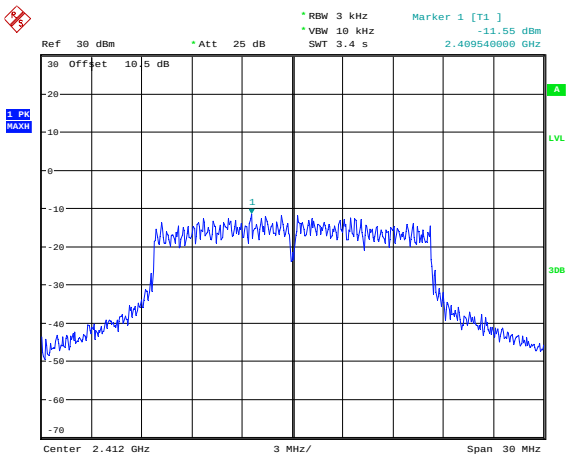
ProjectNo.:2502U67463E-RFTester:Rini Yan
Date: 26.JUL.2025 11:24:02

802.11b_2462MHz



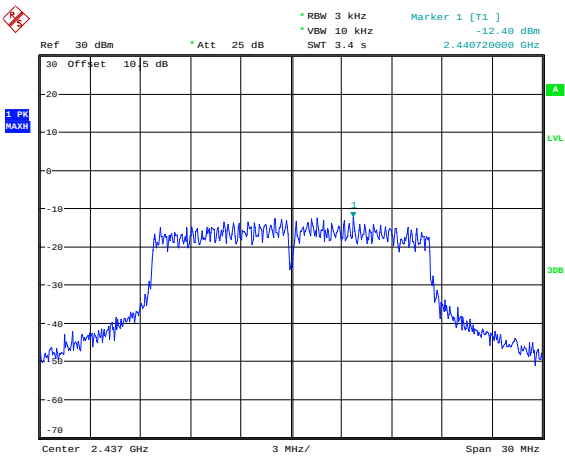
ProjectNo.:2502U67463E-RFTester:Rini Yan
Date: 26.JUL.2025 11:25:43

802.11g_2412MHz



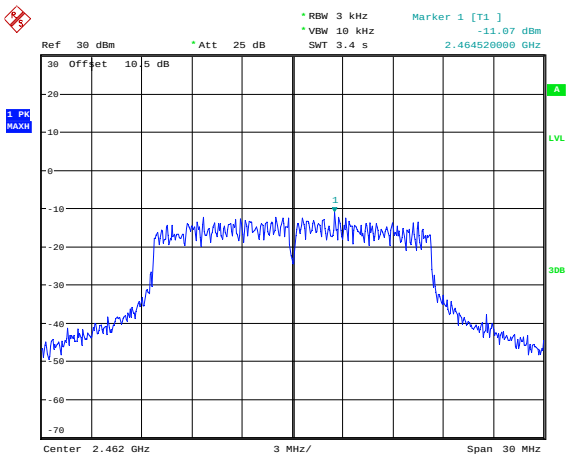
ProjectNo.:2502U67463E-RFTester:Rini Yan
Date: 26.JUL.2025 11:27:39

802.11g_2437MHz

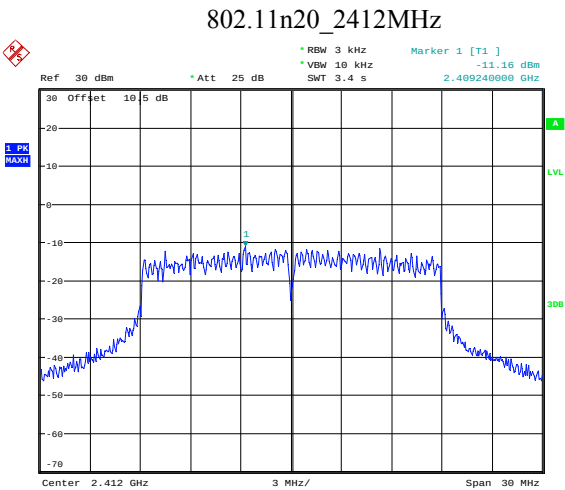


ProjectNo.:2502U67463E-RFTester:Rini Yan
Date: 26.JUL.2025 11:29:54

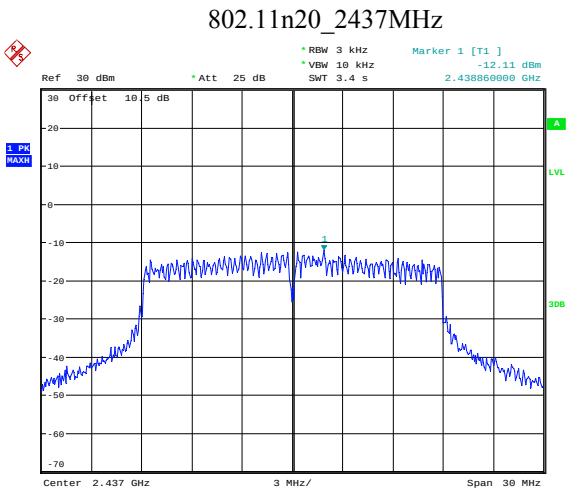
802.11g_2462MHz



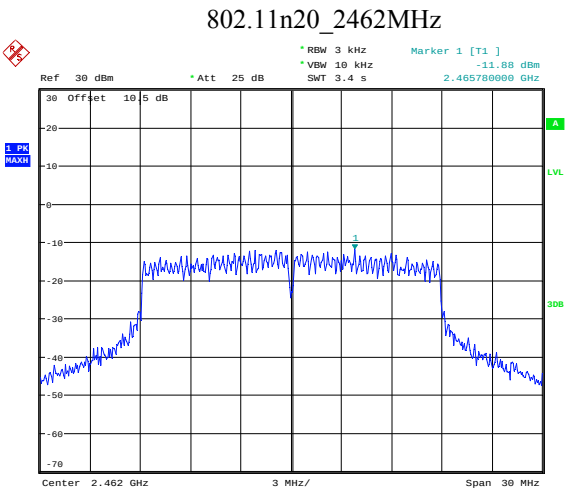
ProjectNo.:2502U67463E-RFTester:Rini Yan
Date: 26.JUL.2025 11:32:16



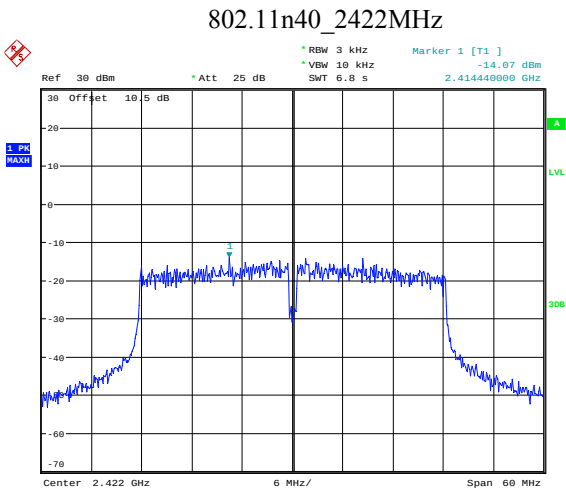
ProjectNo.:2502U67463E-RFTester:Rini Yan
Date: 26.JUL.2025 11:34:29



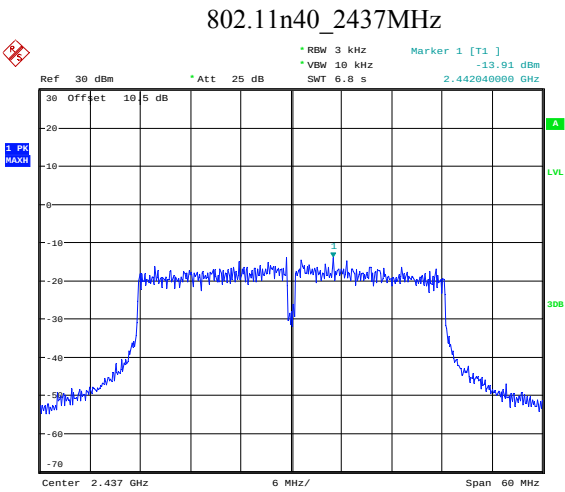
ProjectNo.:2502U67463E-RFTester:Rini Yan
Date: 26.JUL.2025 11:36:32



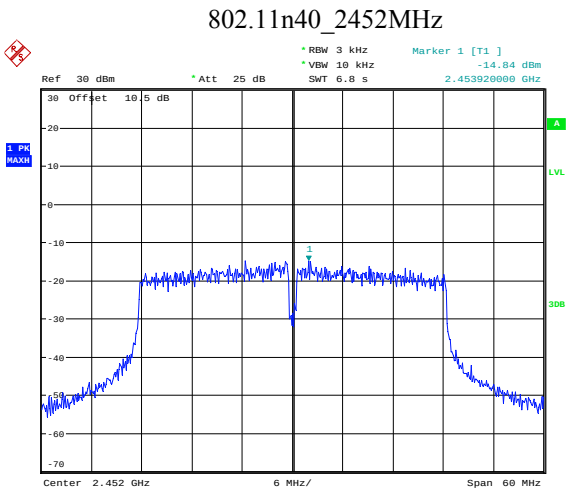
ProjectNo.:2502U67463E-RFTester:Rini Yan
Date: 26.JUL.2025 11:37:49



ProjectNo.:2502U67463E-RFTester:Rini Yan
Date: 26.JUL.2025 11:43:16

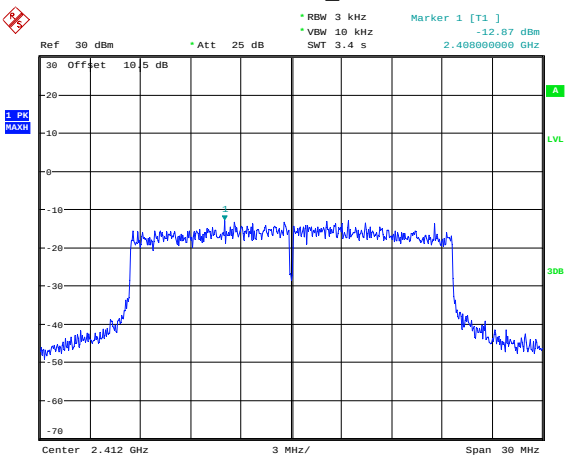


ProjectNo.:2502U67463E-RFTester:Rini Yan
Date: 26.JUL.2025 11:46:56



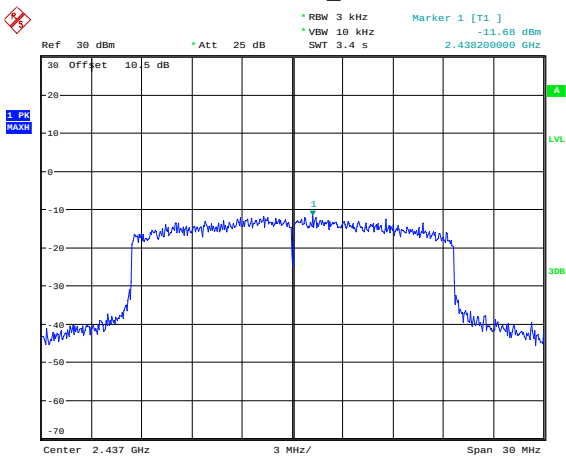
ProjectNo.:2502U67463E-RFTester:Rini Yan
Date: 26.JUL.2025 11:49:00

802.11ax20_2412MHz



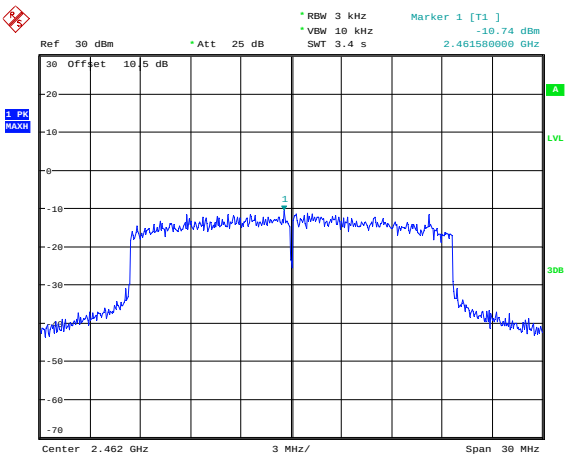
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Date: 26.JUL.2025 17:19:35

802.11ax20_2437MHz



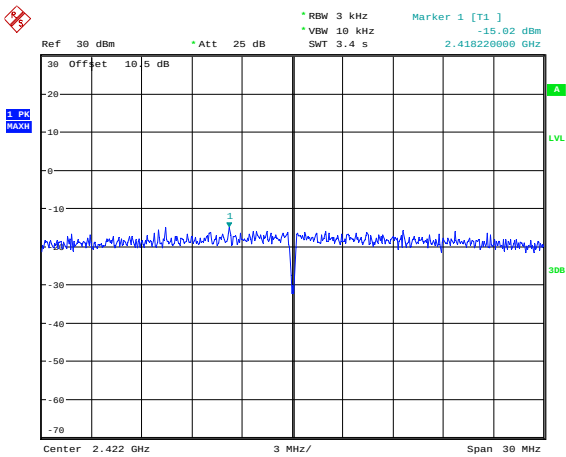
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Date: 26.JUL.2025 11:55:37

802.11ax20_2462MHz



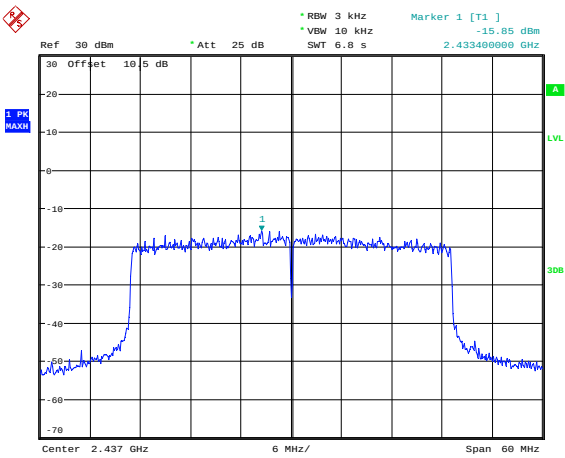
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802.11ax40_2422MHz



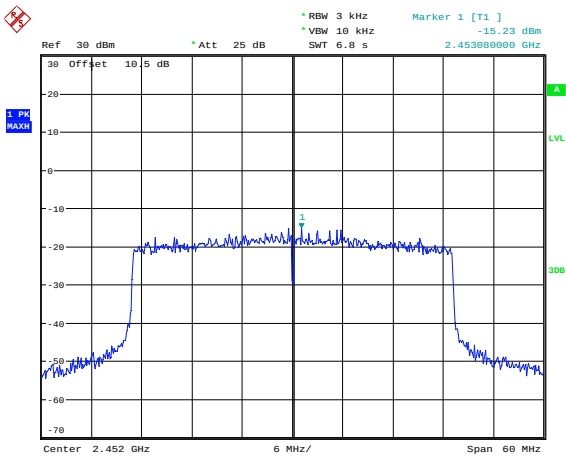
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Date: 26.JUL.2025 13:59:12

802.11ax40_2437MHz



ProjectNo.:2502U67463E-RFTester:Rini Yan
Date: 26.JUL.2025 14:02:06

802.11ax40_2452MHz



ProjectNo.:2502U67463E-RFTester:Rini Yan
Date: 26.JUL.2025 14:04:32

5.7 Duty Cycle

Test Information:

Serial No.:	35O3-1	Test Date:	2025/8/14
Test Site:	RF	Test Mode:	Transmitting
Tester:	Rini Yan	Test Result:	N/A

Environmental Conditions:

Temperature: (°C)	25.1	Relative Humidity: (%)	61	ATM Pressure: (kPa)	99.6
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Test Equipment List and Details:

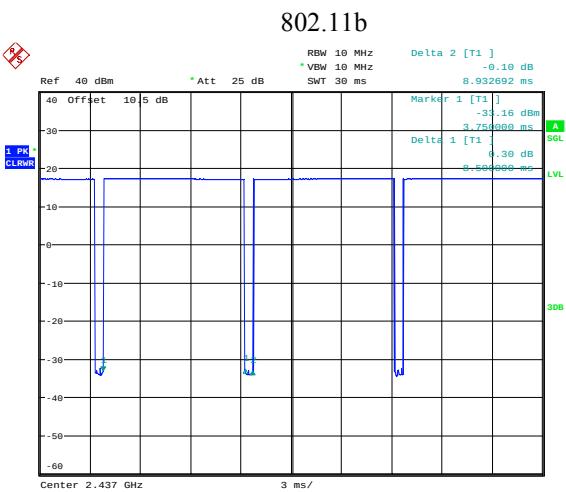
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Eastsheep	Coaxial Attenuator	5W-N-JK-6G-10dB	F-08-EM504	2025/6/6	2026/6/5
R&S	Spectrum Analyzer	FSU 26	200160/026	2024/9/5	2025/9/4

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

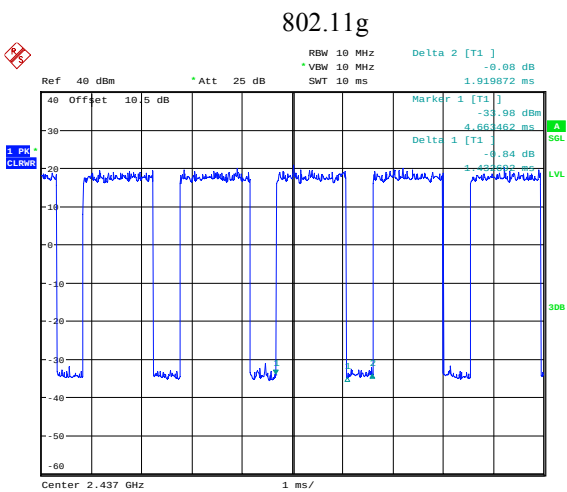
Test Data:

Mode	Ton (ms)	Ton+Toff (ms)	Duty Cycle (%)	1/Ton (Hz)	VBW Setting (kHz)
802.11b	8.500	8.933	95.15	118	0.2
802.11g	1.433	1.920	74.64	698	1.0
802.11n ht20	5.231	5.663	92.37	191	0.2
802.11n ht40	4.990	5.375	92.84	200	0.2
802.11ax he20	4.010	4.442	90.27	249	0.3
802.11ax he40	3.962	4.394	90.17	252	0.3

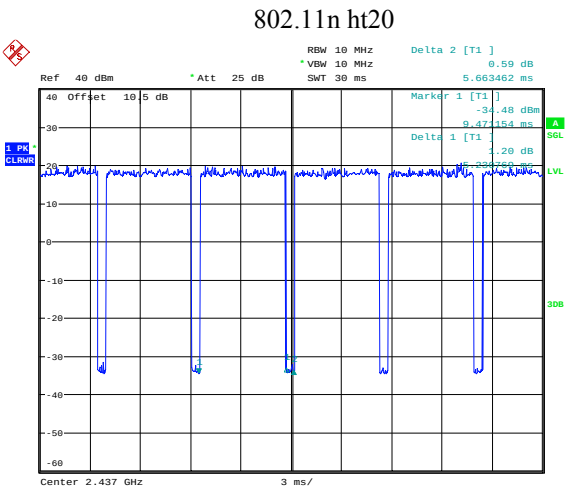
Duty Cycle = Ton/(Ton+Toff)*100%



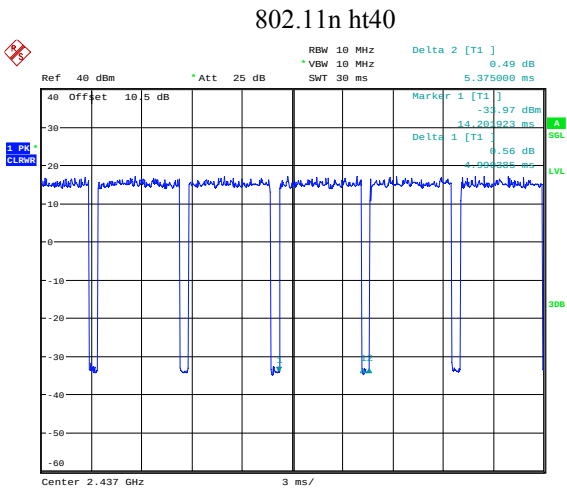
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Date: 14.AUG.2025 09:59:18



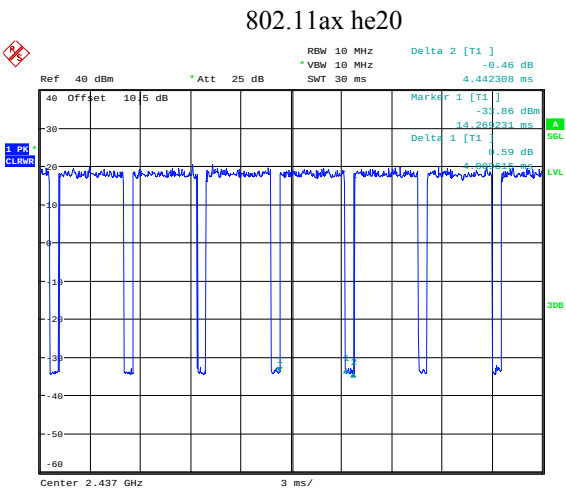
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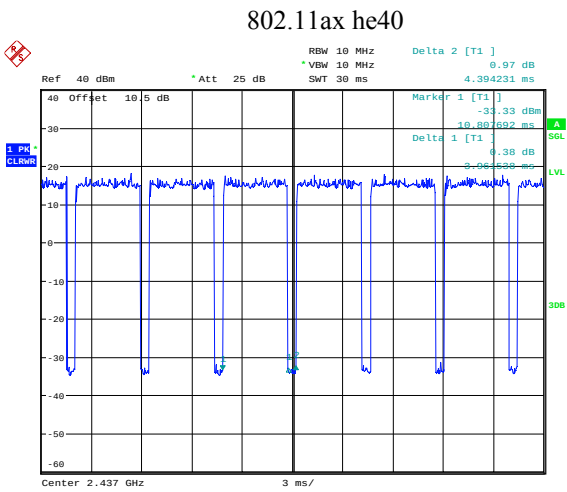
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Date: 14.AUG.2025 10:14:53



ProjectNo.:2502U67463E-RF Tester:Rini Yan
Date: 14.AUG.2025 10:04:25



ProjectNo.:2502U67463E-RF Tester:Rini Yan
Date: 14.AUG.2025 10:05:39



ProjectNo.:2502U67463E-RF Tester:Rini Yan
Date: 14.AUG.2025 10:06:29

5.8 Conducted Spurious Emission

Test Information:

Serial No.:	3503-1	Test Date:	2025/7/26
Test Site:	RF	Test Mode:	Transmitting
Tester:	Rini Yan	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	24.8	Relative Humidity: (%)	58	ATM Pressure: (kPa)	100
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Test Equipment List and Details:

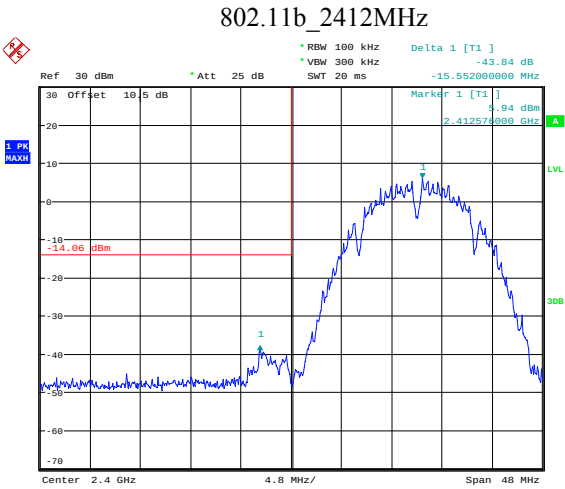
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Eastsheep	Coaxial Attenuator	5W-N-JK-6G-10dB	F-08-EM504	2025/6/6	2026/6/5
R&S	Spectrum Analyzer	FSU 26	200160/026	2024/9/5	2025/9/4

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

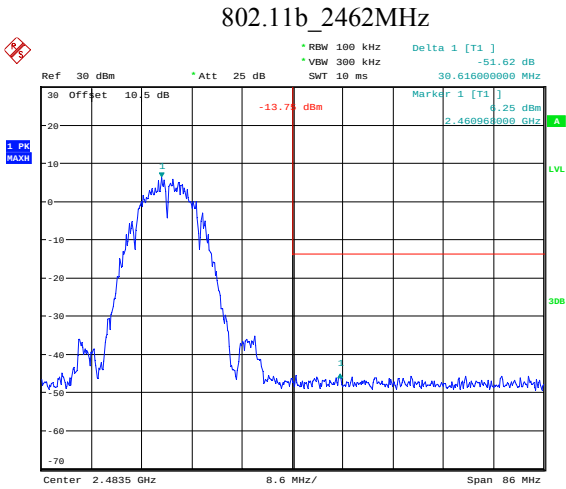
Test Data:

Note: The maximum path attenuation of 30MHz-25GHz was added into the offset.

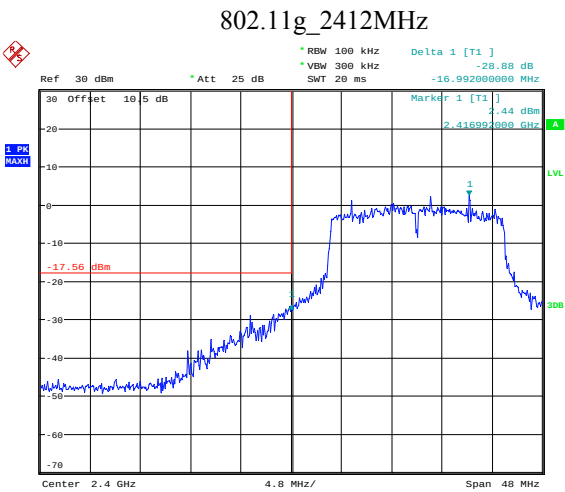
Bandedge:



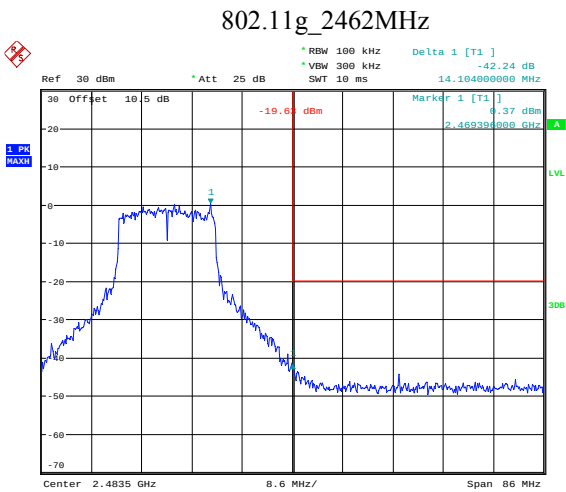
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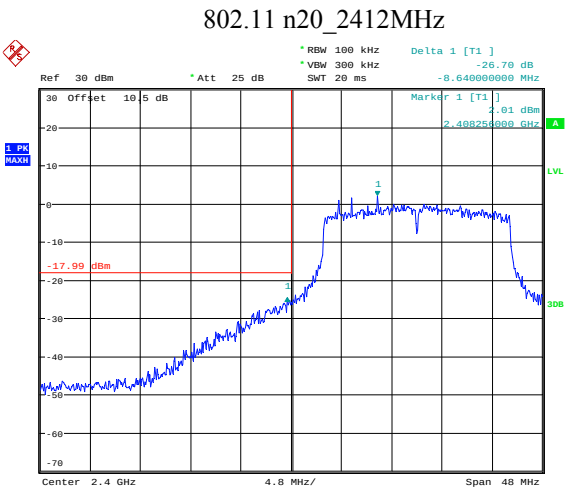
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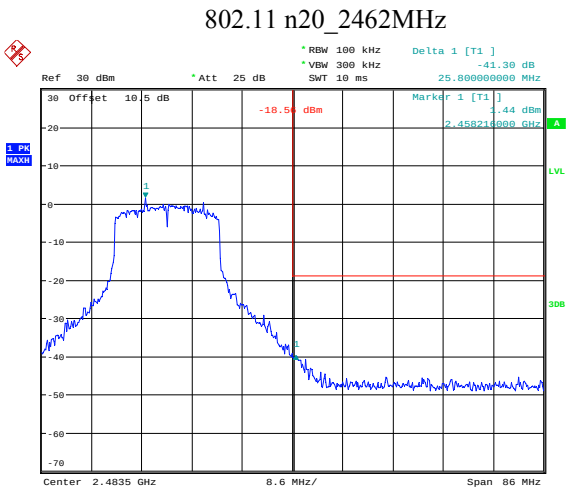
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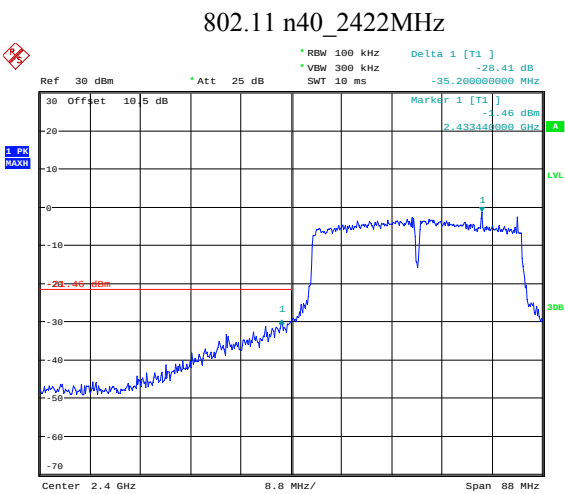
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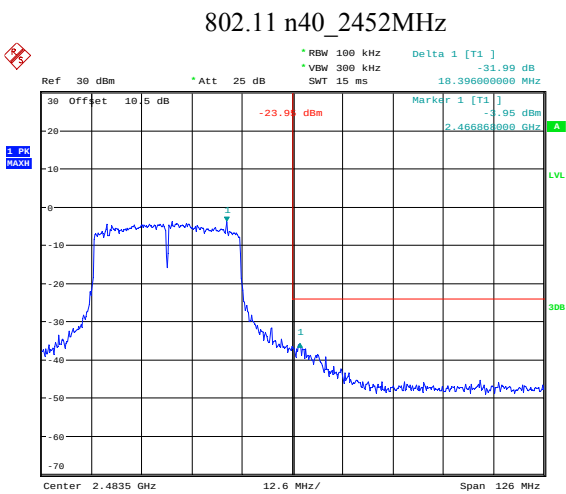
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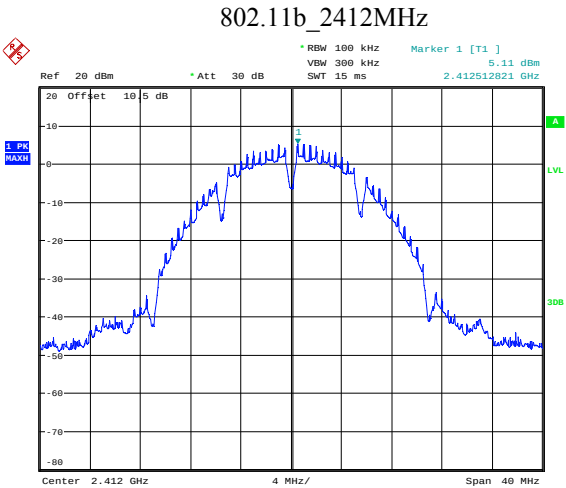


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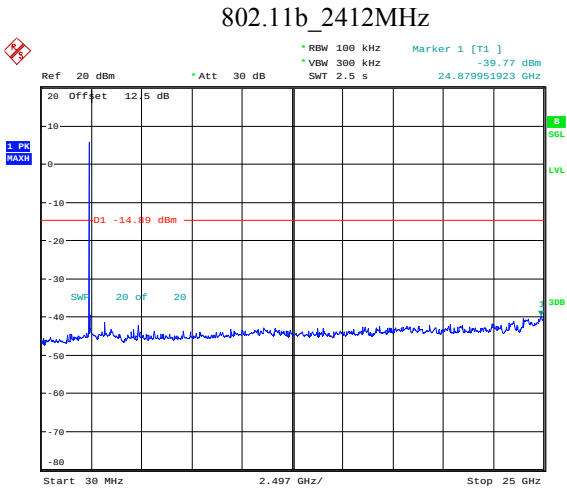


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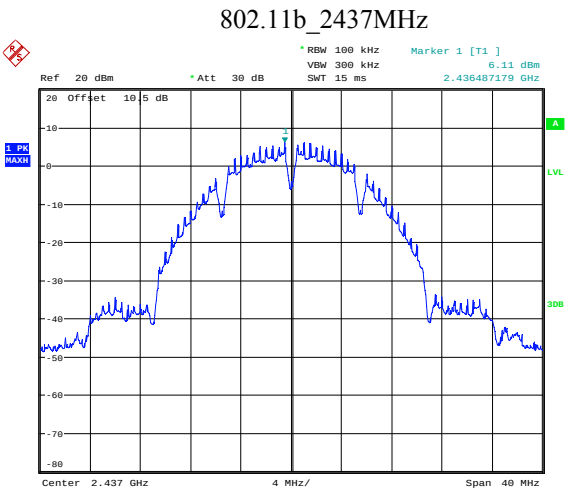
Spurious Emission:



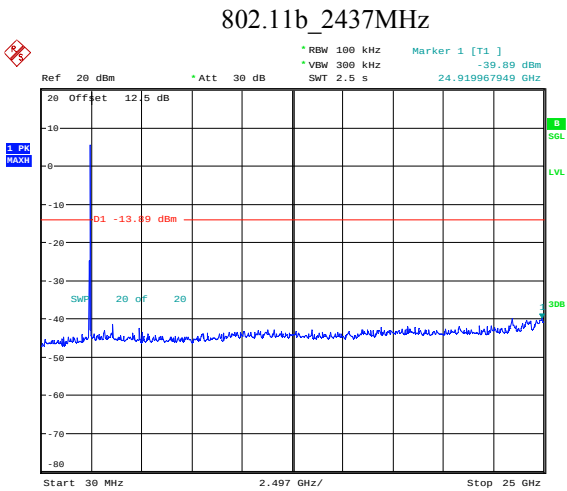
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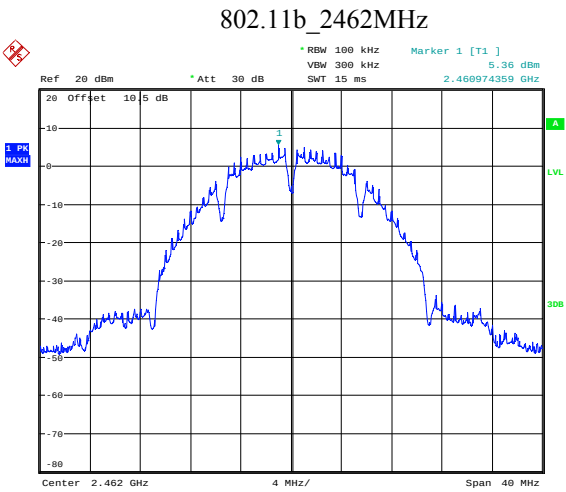
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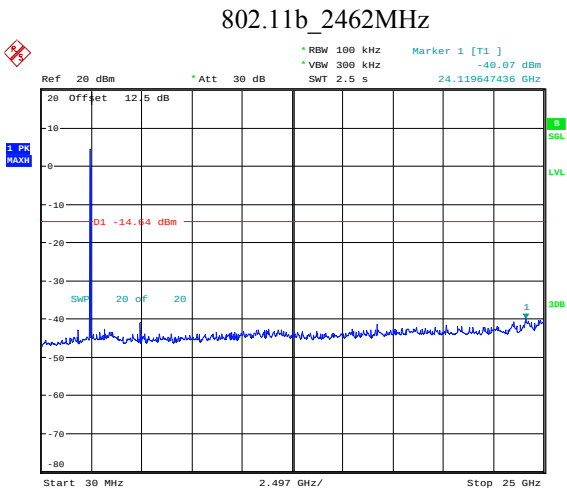
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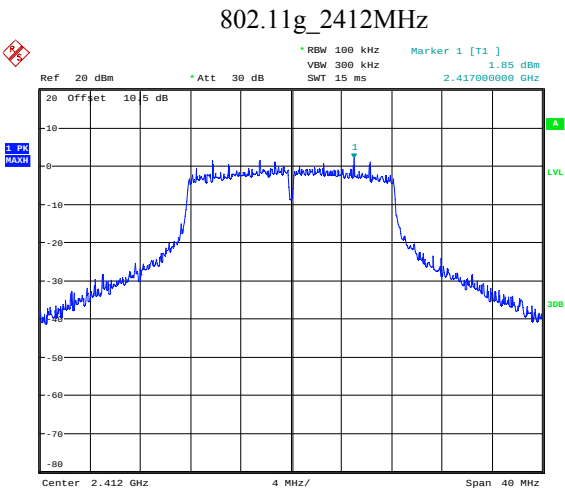
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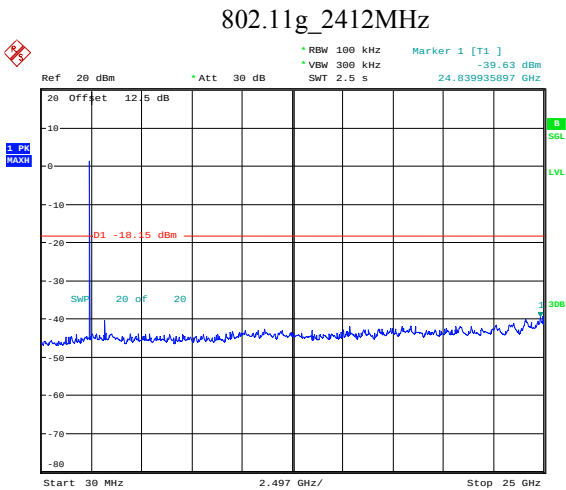
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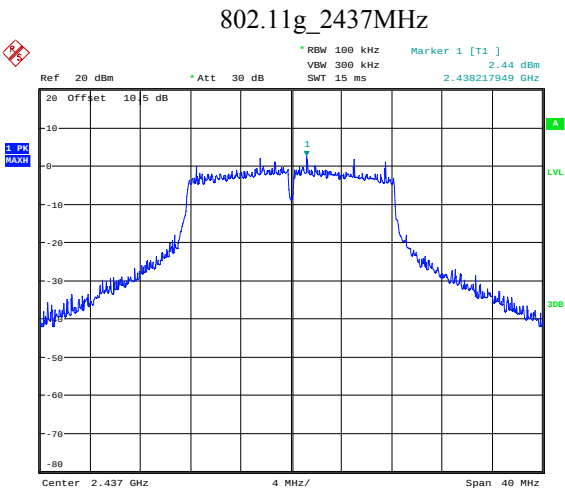
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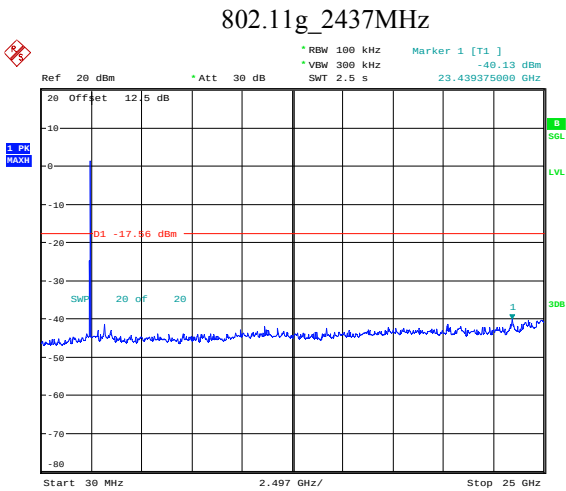
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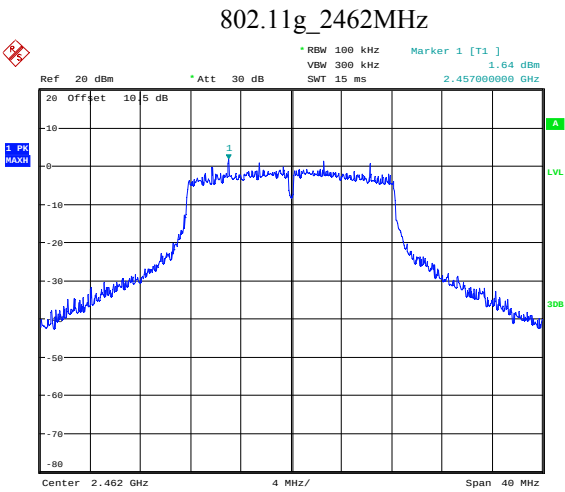
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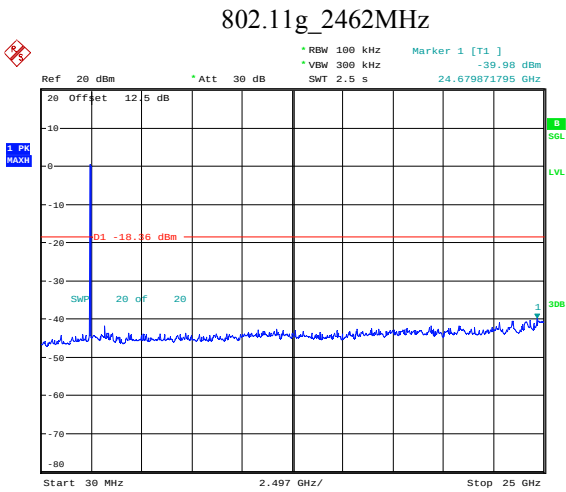
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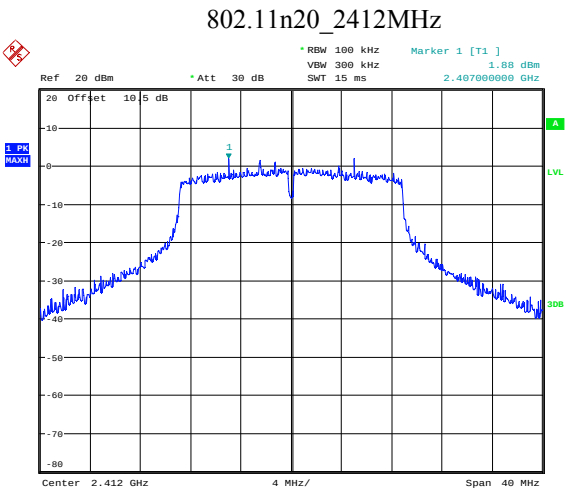
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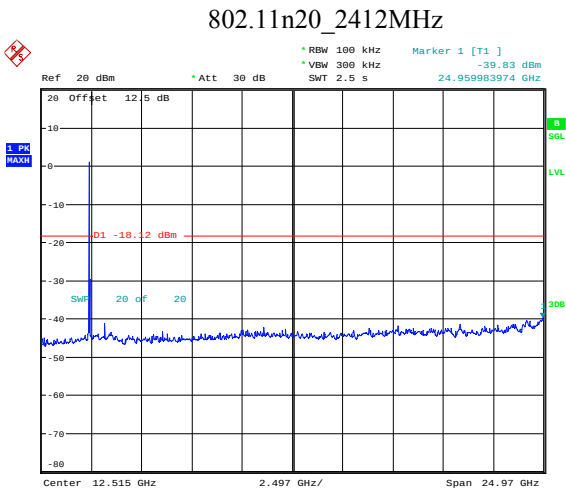
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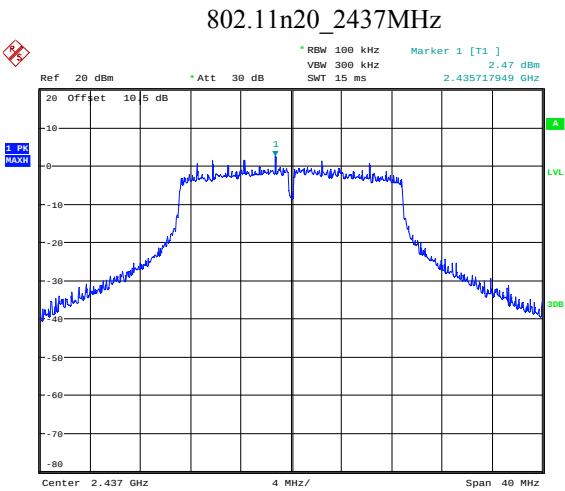
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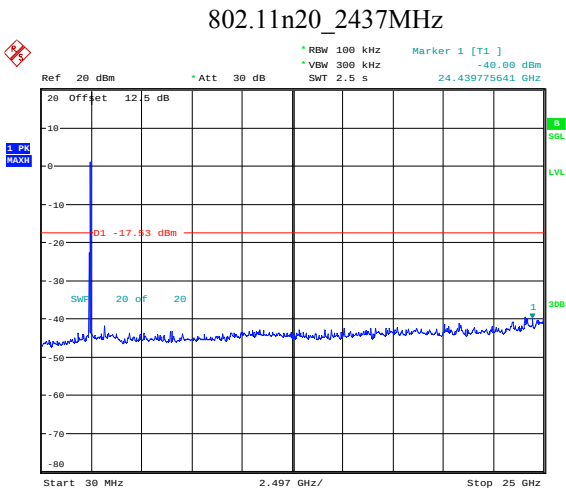
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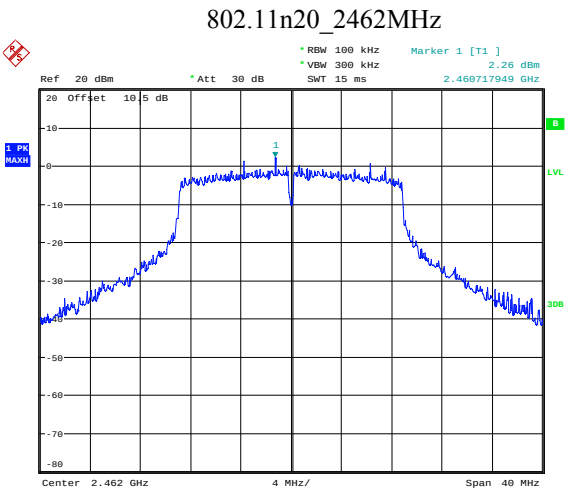
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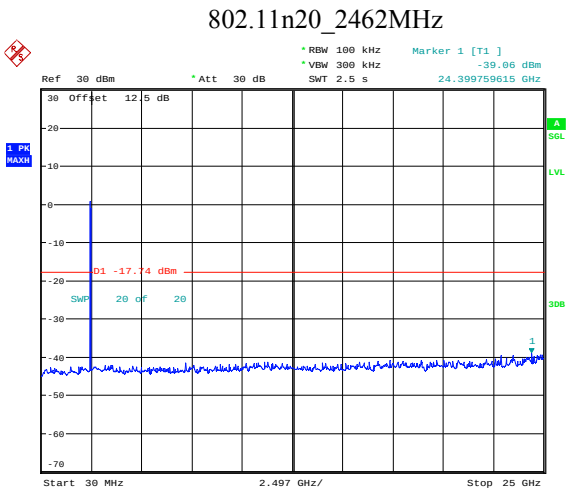
ProjectNo.:2502U67463E-RF Tester:Rini Yan
Date: 26.JUL.2025 17:13:31



ProjectNo.:2502U67463E-RF Tester:Rini Yan
Date: 26.JUL.2025 17:15:41

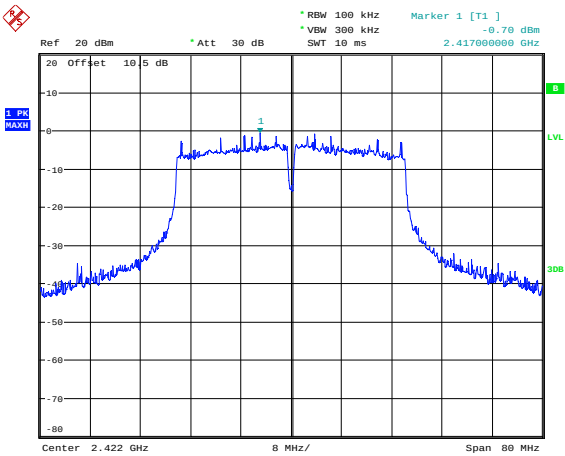


ProjectNo.:2502U67463E-RF Tester:Rini Yan
Date: 26.JUL.2025 17:24:02



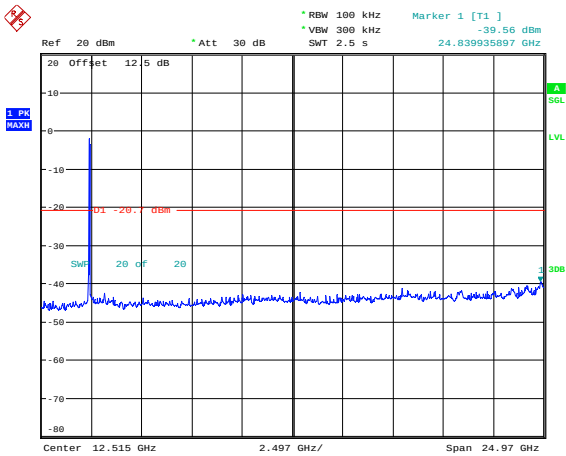
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Date: 26.JUL.2025 17:25:31

802.11n40_2422MHz



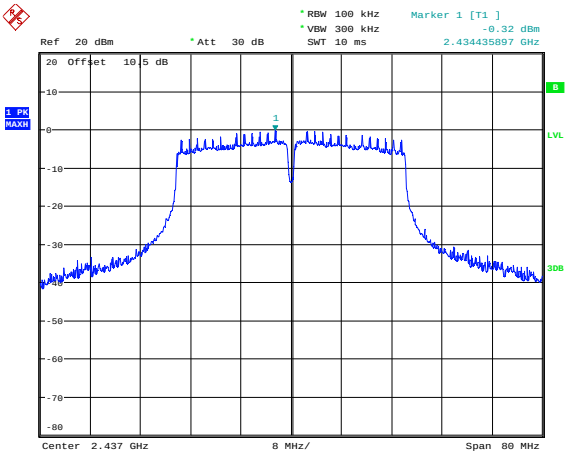
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802.11n40_2422MHz



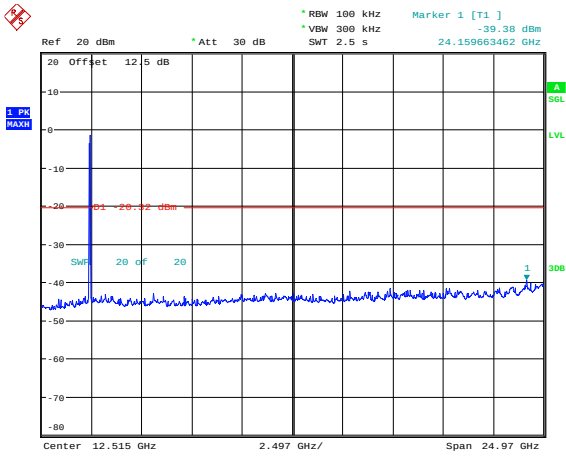
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802.11n40_2437MHz



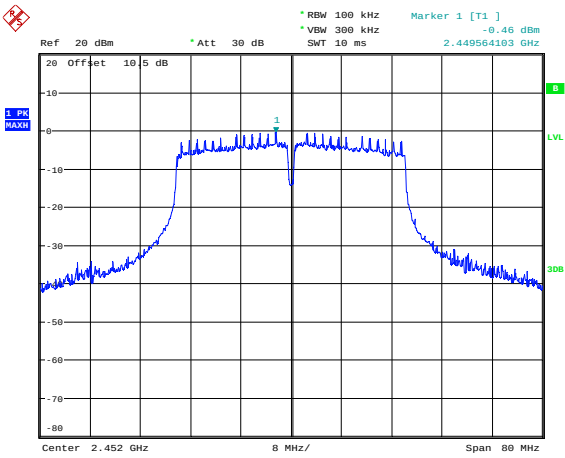
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802.11n40_2437MHz



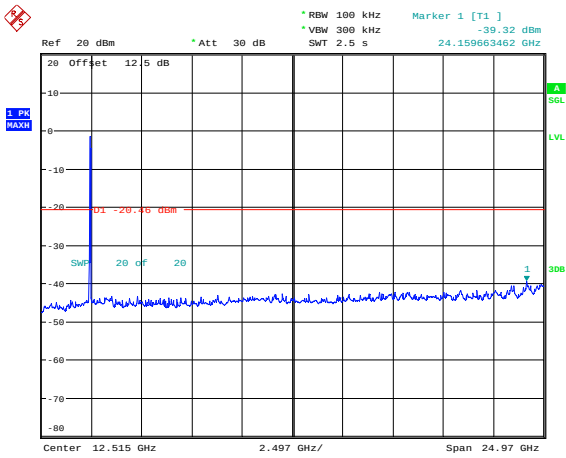
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802.11n40_2452MHz

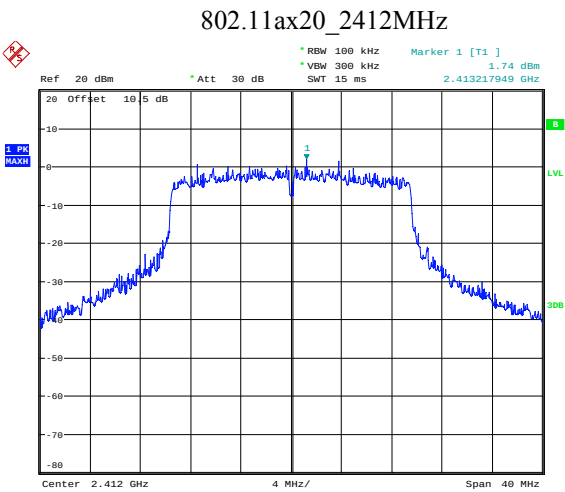


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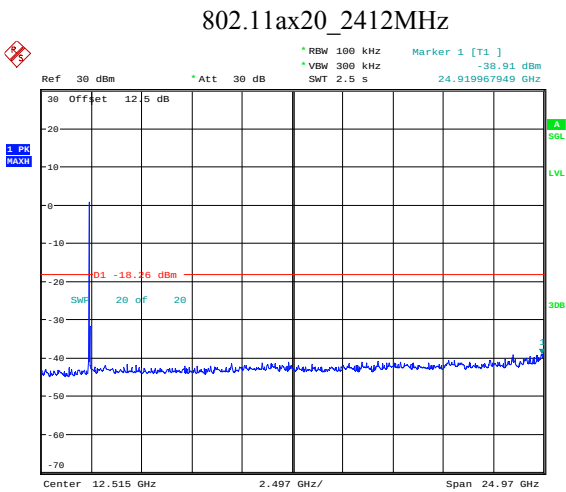
802.11n40_2452MHz



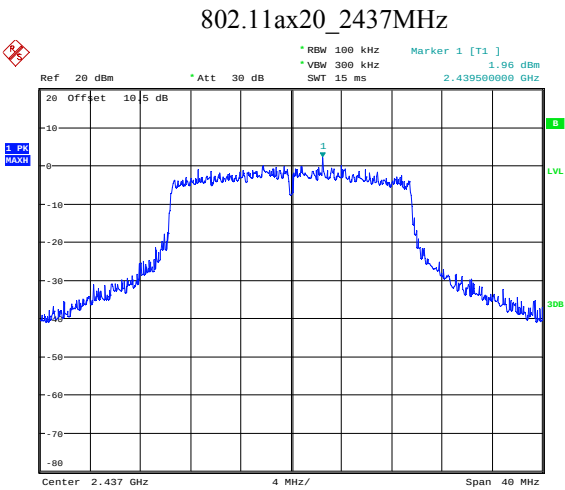
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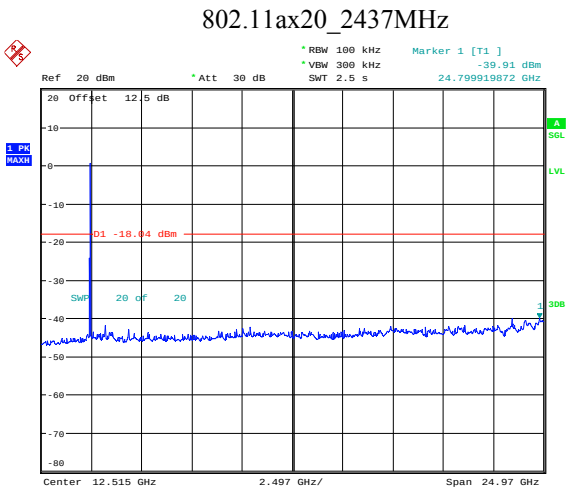
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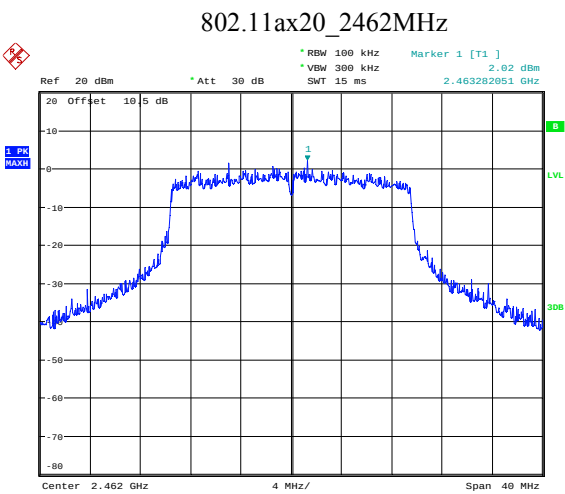
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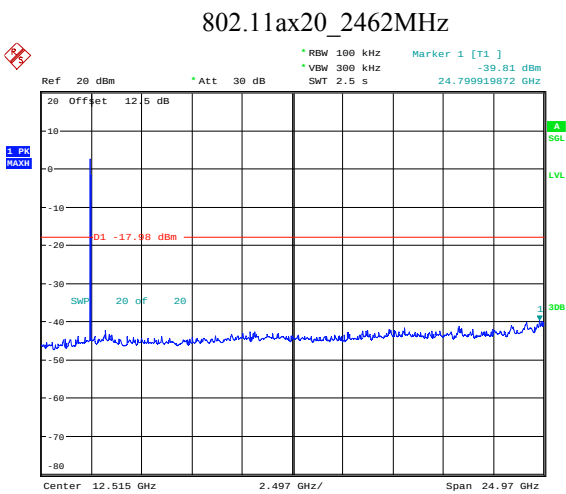
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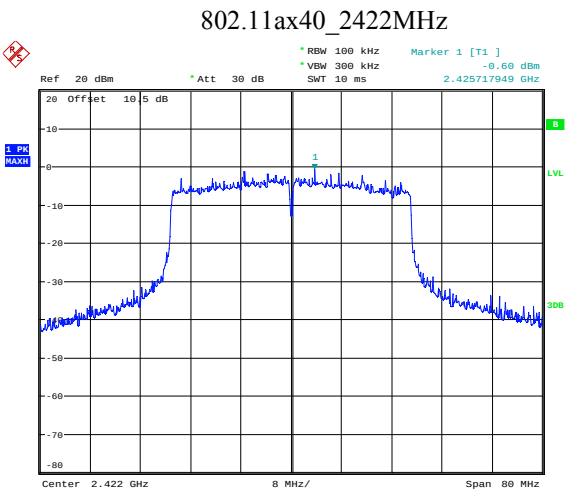
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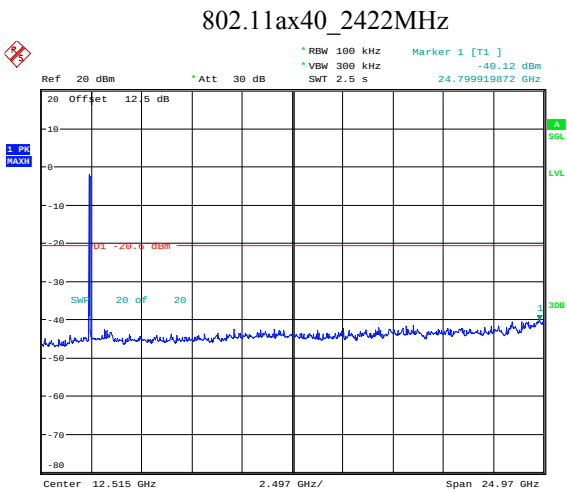
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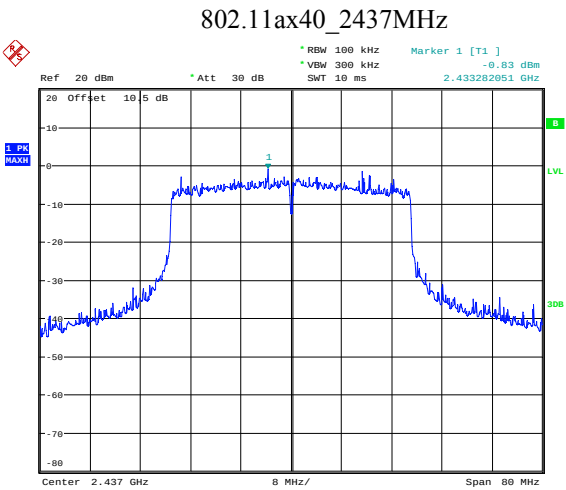
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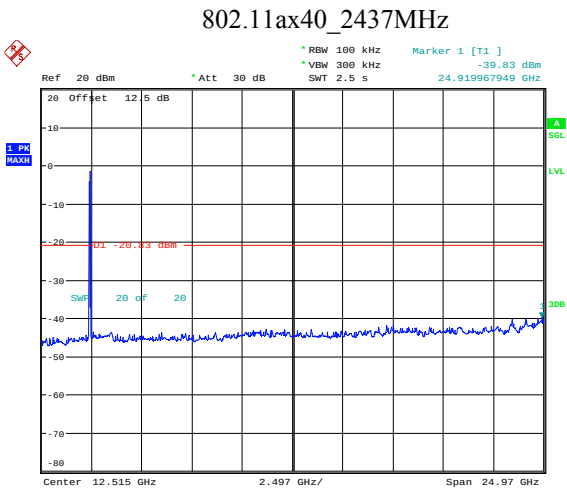
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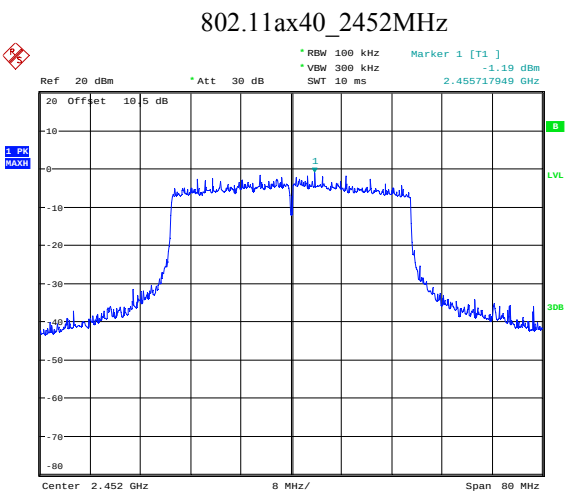
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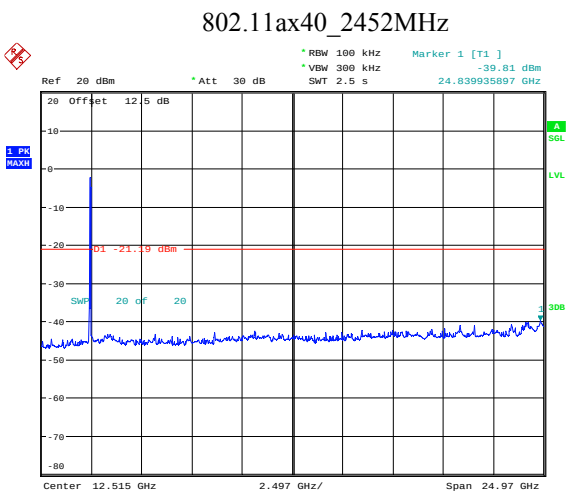
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Date: 26.JUL.2025 17:44:25



ProjectNo.:2502U67463E-RF Tester:Rini Yan
Date: 26.JUL.2025 17:45:48

EXHIBIT A - EUT PHOTOGRAPHS

Please refer to the attachment 2502U67463E-RF-EXP EUT EXTERNAL PHOTOGRAPHS and 2502U67463E-RF-INP EUT INTERNAL PHOTOGRAPHS.

EXHIBIT B - TEST SETUP PHOTOGRAPHS

Please refer to the attachment 2502U67463E-RF-00A-TSP TEST SETUP PHOTOGRAPHS.

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