中认信通
CHINA CERTIFICATION ICT CO., LTD (DONGGUAN)

ACCREDITED
TESTING LABORATORY
CERTIFICATE # 6356.01

TEST REPORT

Applicant: **Evolve 3 Holdings Pty Ltd**

Address: PO BOX 6222, NARRAWEENA, NSW, Australia

FCC ID: **2AWLG-T3P116V1**

Product Name: **Laptop**

Standard(s): **47 CFR Part 15, Subpart C(15.247)**
ANSI C63.10-2013
KDB 558074 D01 15.247 Meas Guidance v05r02

The above device has been tested and found compliant with the requirement of the relative standards by China Certification ICT Co., Ltd (Dongguan)

Report Number: **CR231061450-00C**

Date Of Issue: **2024/2/6**

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Test Facility

The Test site used by China Certification ICT Co., Ltd (Dongguan) to collect test data is located on the No. 113, Pingkang Road, Dalang 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. : 442868, the FCC Designation No. : CN1314.

Declarations

China Certification ICT Co., Ltd (Dongguan) is not responsible for the authenticity of any test data provided by the applicant. Data included from the applicant that may affect test results are marked with a triangle symbol "▲". Customer model name, addresses, names, trademarks etc. are not considered data.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
1.0	CR231061450-00C	Original Report	2024/2/6

1. GENERAL INFORMATION

1.1 Product Description for Equipment under Test (EUT)

EUT Name:	Laptop
EUT Model:	T3P116V1
Trade Name:	evolve III
Operation Frequency:	2412-2472 MHz (802.11b/g/n ht20/ax hew20) 2422-2462 MHz (802.11n ht40/ax hew40)
Maximum Peak Output Power (Conducted):	25.78dBm
Modulation Type:	802.11b: DSSS-DBPSK, DQPSK, CCK 802.11g/n: OFDM-BPSK, QPSK, 16QAM, 64QAM 802.11ax: OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM
Rated Input Voltage:	DC 20V from AC/DC Adapter (Type-C) or DC 20V from AC/DC Adapter (DC IN) or DC 7.6V from Built-in Battery
Serial Number:	2CHV-1 (for Emissions Test) 2CHV-2 (for RF Conducted Test)
EUT Received Date:	2023/10/23
EUT Received Status:	Good
Note: *1. EUT has two external ports that can support power input, namely DC IN and Type-C. Please refer to the EUT external photos and product manual for details. The manufacturer declares that two input ports cannot input power simultaneously.* *2. These two power input ports of product were evaluated in the CR231061450-00A report for the AC Line Conducted Emissions Test and Radiation Spurious Emissions Test. The report showed that powered from DC IN had worse emissions in AC Line Conducted Emissions Test and Radiation Spurious Emissions Test. Therefore, only the test results of product equipped with worst case adapter are reflected in this report.*	

Operation Frequency Detail:
For 802.11b/g/n ht20/ax hew20:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2412	8	2447
2	2417	9	2452
3	2422	10	2457
4	2427	11	2462
5	2432	12	2467
6	2437	13	2472
7	2442	/	/

Per section 15.31(m), the below frequencies were performed to test:

Test Channel	Frequency (MHz)
Lowest	2412
Middle	2437
Highest	2472
Addition	2467

For 802.11n ht40/ax hew40:

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

Per section 15.31(m), the below frequencies were performed to test:

Test Channel	Frequency (MHz)
Lowest	2422
Middle	2437
Highest	2462
Addition	2457

Antenna Information Detail▲:

Antenna	Antenna Type	input impedance (Ohm)	Frequency Range	Antenna Gain
Main Antenna (Support WLAN)(Chain 1)	FPC	50	2.4~2.5GHz	2.51dBi
AUX Antenna (Support BT+WLAN) (Chain 0)	FPC	50	2.4~2.5GHz	2.57dBi

The Method of §15.203 Compliance:

☒Antenna was permanently attached to the unit.

☐Antenna use a unique type of connector to attach to the EUT.

☐Unit was professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

Accessory Information:

Accessory Description	Manufacturer	Model	Parameters
AC/DC Adapter (Type-C)	Shenzhen Jihongda Power Co., Ltd.	JHD-AP045U-PD-BF502	**Input:** 100-240V~50/60Hz1.5A **Output:** 5V 3A/9V 3A/12V 3A /15V 3A/20V 2.25A

1.2 Description of Test Configuration

1.2.1 EUT Operation Condition

EUT Operation Mode:	The system was configured for testing in Engineering Mode, which was provided by the manufacturer.
Equipment Modifications:	No
EUT Exercise Software:	DRTU.exe

The software was provided by manufacturer. The maximum power was configured as below, that was provided by the manufacturer▲:

Mode	Channel	Frequency (MHz)	Data Rate	Power Level Setting	
				Chain 0	Chain 1
802.11b	Lowest	2412	1Mbps	14	14
	Middle	2437	1Mbps	14	14
	Highest	2462	1Mbps	14	14
	Addition	2457	1Mbps	14	14
802.11g	Lowest	2412	6Mbps	14	14
	Middle	2437	6Mbps	14	14
	Highest	2472	6Mbps	14	14
	Addition	2467	6Mbps	7	9
802.11n ht20	Lowest	2412	HT8	14	14
	Middle	2437	HT8	14	14
	Highest	2472	HT8	8	8
	Addition	2467	HT8	13	13
802.11n ht40	Lowest	2422	HT8	14	14
	Middle	2437	HT8	14	14
	Highest	2462	HT8	14	14
	Addition	2457	HT8	14	14
802.11ax hew20	Lowest	2412	MCS8	14	14
	Middle	2437	MCS8	14	14
	Highest	2472	MCS8	7	7
	Addition	2467	MCS8	14	14
802.11ax hew40	Lowest	2422	MCS8	14	14
	Middle	2437	MCS8	14	14
	Highest	2462	MCS8	14	14
	Addition	2457	MCS8	14	14

Note:
1. The above are the worst-case data rates, which are determined for each mode based upon investigations by measuring the power and PSD across all data rates, bandwidths, and modulations.
2. The device supports SISO in all modes, and MIMO 2T2R in 802.11n/ax mode, per pretest, 2T2R mode was the worst mode and reported for 802.11n/ax mode.
3. For 802.11 ax mode, the device only supports full-RU.

1.2.2 Support Equipment List and Details

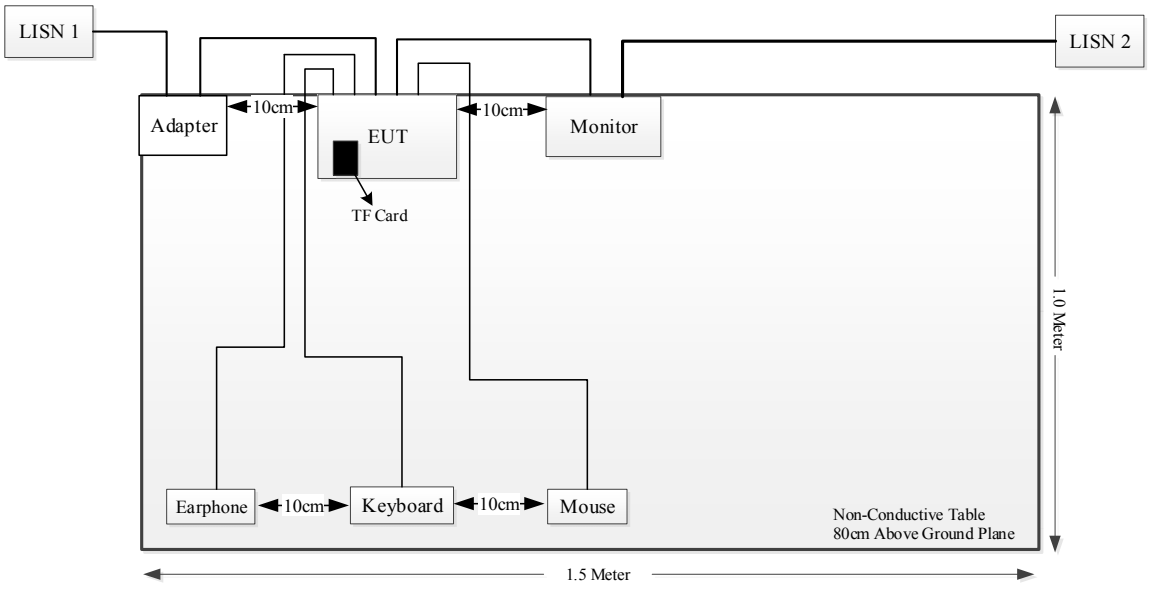
Manufacturer	Description	Model	Serial Number
PHILIPS	Monitor	24PFF5595/T3	XM2A2124000343
SanDisk	TF Card	16 GB	1183DRECV11N
Xinspower	AC/DC Adapter (DC IN)	A361-1203000D	Unknown
CLC	Earphone	Whiteview5.0	EP21107125
PHILIPS	Keyboard	SPT6234	K234210510746
PHILIPS	Mouse	SPT6234	C234210506222

1.2.3 Support Cable List and Details

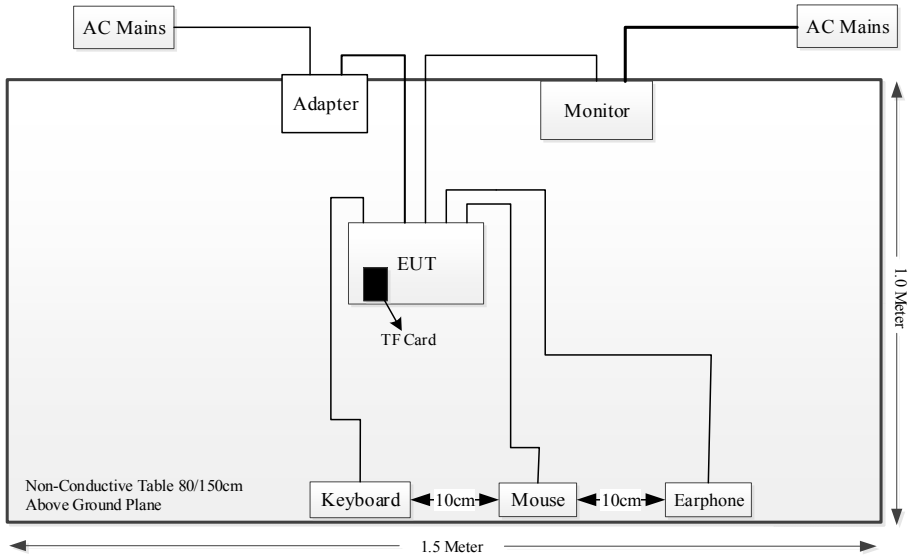
Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	To
Adapter DC Output Power Cable	no	no	2.0	AC/DC Adapter (DC IN)	EUT
AC Power Cable	no	no	1.0	AC/DC Adapter (DC IN)	LISN
Earphone Cable	no	no	1.5	EUT	Earphone
HDMI Cable	no	no	1.0	EUT	Monitor
Keyboard Cable	no	no	1.5	EUT	Keyboard
Mouse Cable	no	no	1.5	EUT	Mouse

1.2.4 Block Diagram of Test Setup

AC Line Conducted Emissions:



Radiation Spurious Emissions:



1.3 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: 4.12dB, 30MHz~200MHz: 4.15 dB, 200MHz~1GHz: 5.61 dB,1GHz~6GHz: 5.14 dB, 6GHz~18GHz: 5.93 dB, 18GHz~26.5GHz:5.47 dB, 26.5GHz~40GHz:5.63 dB
Unwanted Emissions, conducted	±1.26 dB
Temperature	±1℃
Humidity	±5%
DC and low frequency voltages	±0.4%
Duty Cycle	1%
AC Power Lines Conducted Emission	2.8 dB (150 kHz to 30 MHz)

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(e)	Power Spectral Density	Compliant
§15.247(d)	100 kHz Bandwidth of Frequency Band Edge	Compliant
§15.203	Antenna Requirement	Compliant

3. REQUIREMENTS AND TEST PROCEDURES

3.1 AC Line Conducted Emissions

3.1.1 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 μH/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.

	Conducted limit (dBμV)	
Frequency of emission (MHz)	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:

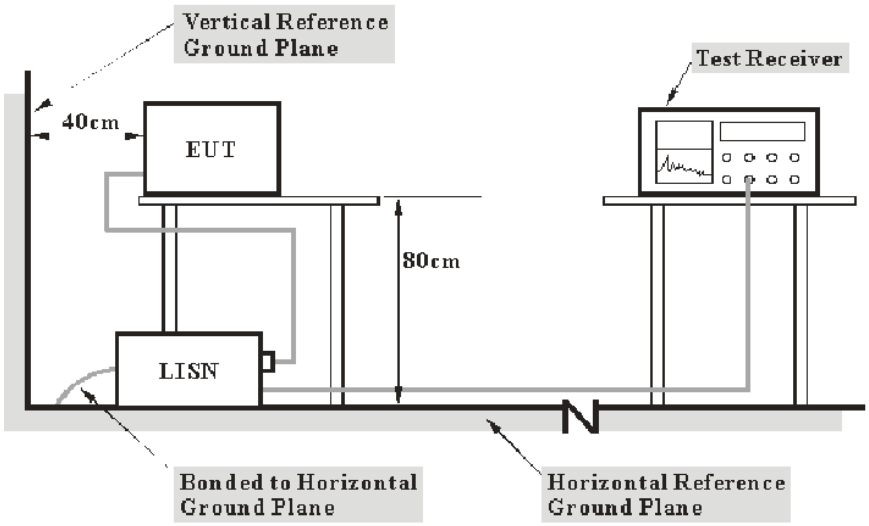
(1) For carrier current system containing their fundamental emission within the frequency band 535-1705 kHz and intended to be received using a standard AM broadcast receiver: no limit on conducted emissions.

(2) For all other carrier current systems: 1000 μV within the frequency band 535-1705 kHz, as measured using a 50 μH/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, obtainig their power through another device which is connected to the AC power lines, shall be tested to demonstrate compliance with the conducted limits.

3.1.2 EUT Setup



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

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.207 limits.

The spacing between the peripherals was 10 cm.

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

3.1.3 EMI Test Receiver Setup

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

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

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

3.1.4 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.

3.1.5 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

3.2 Radiation Spurious Emissions

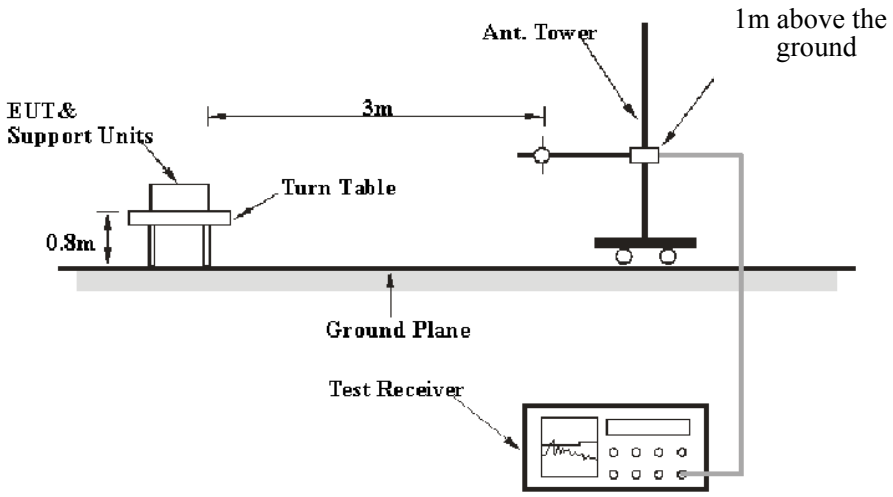
3.2.1 Applicable Standard

FCC §15.247 (d)

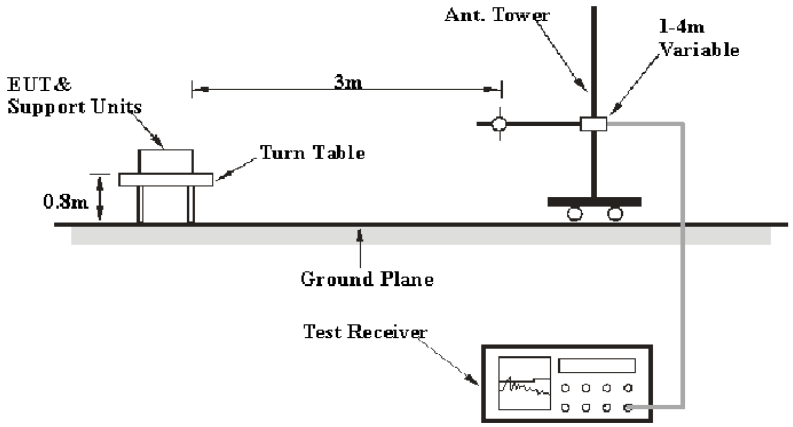
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the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

3.2.2 EUT Setup

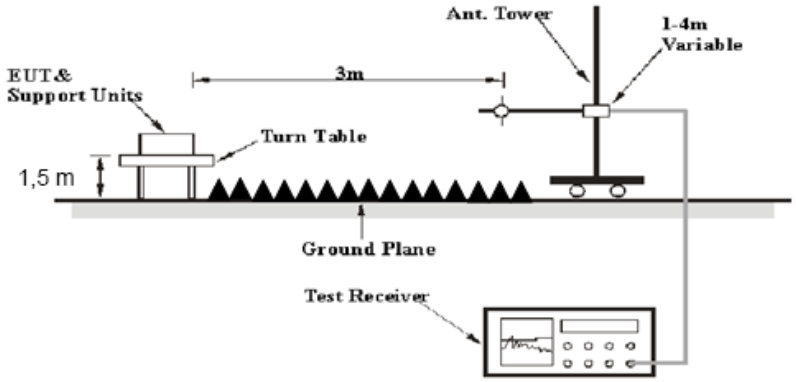
9kHz~30MHz:



30MHz~1GHz:



Above 1GHz:



The radiated emissions were performed in the 3 meters distance, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC 15.209, and FCC 15.247 limits.

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

The spacing between the peripherals was 10 cm.

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.

3.2.3 EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 9kHz 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	RBW	Video B/W	IF B/W	Measurement
9 kHz – 150 kHz	300 Hz	1 kHz	/	PK
	/	/	200 Hz	QP/AV
150 kHz – 30 MHz	10 kHz	30 kHz	/	PK
	/	/	9 kHz	QP/AV
30 MHz – 1000 MHz	100 kHz	300 kHz	/	PK
	/	/	120 kHz	QP

1GHz- 25GHz:

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

Note: T is minimum transmission duration

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

3.2.4 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, average detection modes for the frequency bands 9–90 kHz and 110–490 kHz, peak and average detection modes for frequencies above 1 GHz.

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

3.2.5 Corrected Amplitude & Margin Calculation

The basic equation is as follows:

Result = Reading + Factor
Factor = Antenna Factor + Cable Loss- Amplifier Gain

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

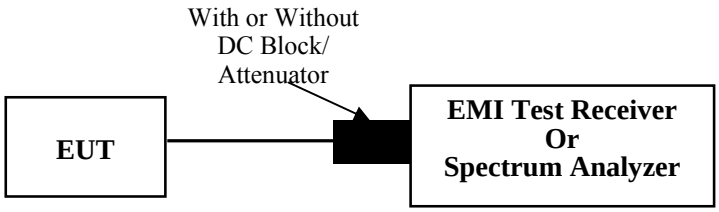
3.3 Minimum 6 dB Bandwidth

3.3.1 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.

3.3.2 EUT Setup



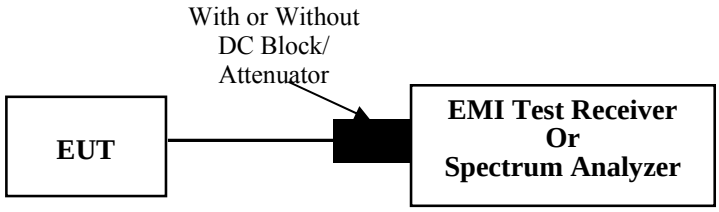
3.3.3 Test Procedure

According to ANSI C63.10-2013 Section 11.8

a) Set RBW = 100 kHz.
b) Set the video bandwidth (VBW) ≥ 3×RBW.
c) Detector = Peak.
d) Trace mode = max hold.
e) Sweep = auto couple.
f) Allow the trace to stabilize.
g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

3.4 99% Occupied Bandwidth

3.4.1 EUT Setup



3.4.2 Test Procedure

According to ANSI C63.10-2013 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:
a) The instrument center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be between 1.5 times and 5.0 times the OBW.
b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW, and VBW shall be approximately three times the RBW, unless otherwise specified by the applicable requirement.
c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than [10 log (OBW/RBW)] below the reference level. Specific guidance is given in 4.1.5.2.
d) Step a) through step c) might require iteration to adjust within the specified range.
e) Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
f) Use the 99% power bandwidth function of the instrument (if available) and report the measured bandwidth.
g) If the instrument does not have a 99% power bandwidth function, then the trace data points are recovered and directly summed in linear power terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5% of the total is reached; that frequency is recorded as the upper frequency. The 99% power bandwidth is the difference between these two frequencies.
h) The occupied bandwidth shall be reported by providing 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).

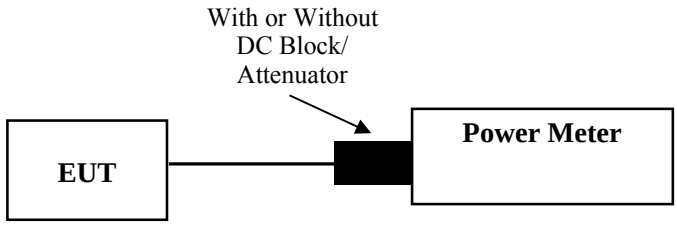
3.5 Maximum Conducted Output Power

3.5.1 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.

3.5.2 EUT Setup



3.5.3 Test Procedure

According to ANSI C63.10-2013 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.

According to ANSI C63.10-2013 Section 11.9.1.3

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.

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

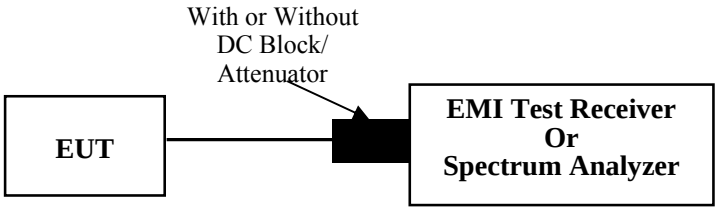
3.6 Maximum Power Spectral Density

3.6.1 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.

3.6.2 EUT Setup



3.6.3 Test Procedure

According to ANSI C63.10-2013 Section 11.10.2

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

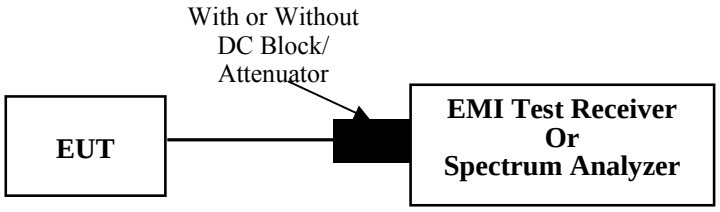
3.7 100 kHz Bandwidth of Frequency Band Edge

3.7.1 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)).

3.7.2 EUT Setup



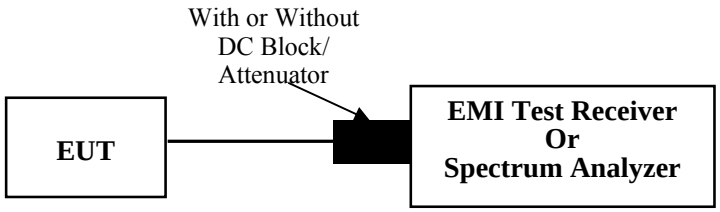
3.7.3 Test Procedure

According to ANSI C63.10-2013 Section 11.11

a) Set the center frequency and span to encompass frequency range to be measured.
b) Set the RBW = 100 kHz.
c) Set the VBW ≥ [3 × RBW].
d) Detector = peak.
e) Sweep time = auto couple.
f) Trace mode = max hold.
g) Allow trace to fully stabilize.
h) Use the peak marker function to determine the maximum amplitude level.
Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) is attenuated by at least the minimum requirements specified in 11.11. Report the three highest emissions relative to the limit.

3.8 Duty Cycle

3.8.1 EUT Setup



3.8.2 Test Procedure

According to ANSI C63.10-2013 Section 11.6

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

3.9 Antenna Requirement

3.9.1 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.

3.9.2 Judgment

Compliant. Please refer to the Antenna Information detail in Section 1.

4. TEST DATA AND RESULTS

4.1 AC Line Conducted Emissions

Serial Number:	2CHV-1	Test Date:	2023/11/15
Test Site:	CE	Test Mode:	Transmitting
Tester:	David Huang	Test Result:	Pass

Environmental Conditions:

Temperature: (℃)	26.4	Relative Humidity: (%)	46	ATM Pressure: (kPa)	101.7

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	LISN	ENV216	101132	2023/3/31	2024/3/30
R&S	LISN	ENV216	101134	2023/3/31	2024/3/30
R&S	EMI Test Receiver	ESR3	102726	2023/3/31	2024/3/30
MICRO-COAX	Coaxial Cable	UTIFLEX	C-0200-01	2023/8/6	2024/8/5
Audix	Test Software	E3	190306 (V9)	N/A	N/A

**** Statement of Traceability:*** *China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

Test Data:

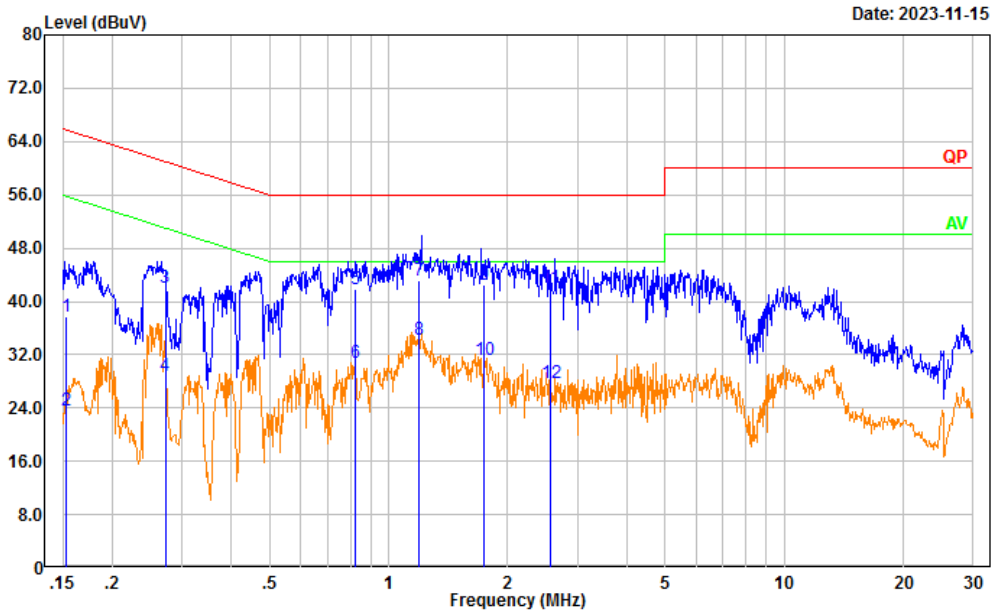
Note:

1. Powered from DC IN port was the worst.

2. Tested at Maximum output power mode: 802.11ax hew20, Highest channel.

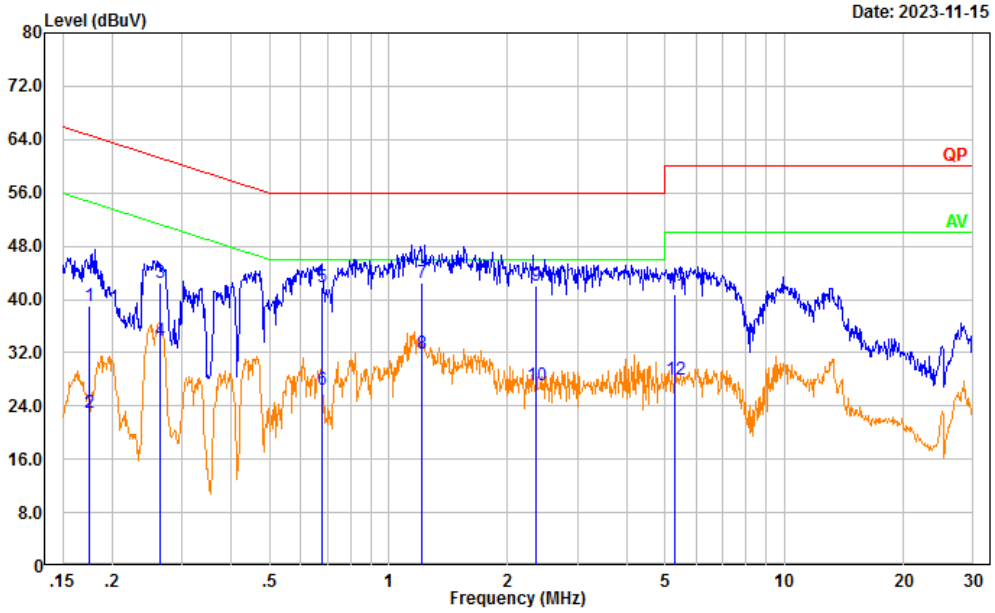
Please refer to the below plots.

Project No.: CR231061450-RF
Tester: David Huang
Port: neutral
Note: Transmitting(2.4G WIFI)



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB)	Result (dBµV)	Limit (dBµV)	Margin (dB)	Detector
1	0.153	28.21	9.61	37.82	65.86	28.04	QP
2	0.153	13.96	9.61	23.57	55.86	32.29	Average
3	0.272	32.53	9.61	42.14	61.05	18.91	QP
4	0.272	19.21	9.61	28.82	51.05	22.23	Average
5	0.822	32.15	9.62	41.77	56.00	14.23	QP
6	0.822	21.17	9.62	30.79	46.00	15.21	Average
7	1.191	33.46	9.62	43.08	56.00	12.92	QP
8	1.191	24.68	9.62	34.30	46.00	11.70	Average
9	1.745	32.76	9.63	42.39	56.00	13.61	QP
10	1.745	21.56	9.63	31.19	46.00	14.81	Average
11	2.563	32.41	9.64	42.05	56.00	13.95	QP
12	2.563	18.17	9.64	27.81	46.00	18.19	Average

Project No.: CR231061450-RF
Tester: David Huang
Port: Line
Note: Transmitting(2.4G WIFI)



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB)	Result (dBµV)	Limit (dBµV)	Margin (dB)	Detector
1	0.175	29.51	9.61	39.12	64.71	25.59	QP
2	0.175	13.27	9.61	22.88	54.71	31.83	Average
3	0.264	32.98	9.61	42.59	61.30	18.71	QP
4	0.264	24.20	9.61	33.81	51.30	17.49	Average
5	0.677	32.25	9.62	41.87	56.00	14.13	QP
6	0.677	16.83	9.62	26.45	46.00	19.55	Average
7	1.210	32.89	9.62	42.51	56.00	13.49	QP
8	1.210	22.25	9.62	31.87	46.00	14.13	Average
9	2.351	32.49	9.64	42.13	56.00	13.87	QP
10	2.351	17.37	9.64	27.01	46.00	18.99	Average
11	5.298	31.18	9.66	40.84	60.00	19.16	QP
12	5.298	18.32	9.66	27.98	50.00	22.02	Average

4.2 Radiation Spurious Emissions

Serial Number:	2CHV-1	Test Date:	2023/11/15~2024/1/29
Test Site:	966-2,966-1	Test Mode:	Transmitting
Tester:	Jeff Luo, coco Tian	Test Result:	Pass

Environmental Conditions:					
Temperature: (℃)	25.1~25.8	Relative Humidity: (%)	52~58	ATM Pressure: (kPa)	101.3~101.9

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Radiation Spurious Emissions Below 1GHz					
Sunol Sciences	Antenna	JB6	A082520-6	2023/9/18	2026/9/17
BACL	Loop Antenna	1313-1P	3092721	2023/10/20	2026/10/19
R&S	EMI Test Receiver	ESR3	102724	2023/3/31	2024/3/30
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0470-02	2023/7/16	2024/7/15
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0780-01	2023/7/16	2024/7/15
Sonoma	Amplifier	310N	186165	2023/7/16	2024/7/15
Audix	Test Software	E3	201021 (V9)	N/A	N/A
Radiation Spurious Emissions Above 1GHz					
AH	Double Ridge Guide Horn Antenna	SAS-571	1394	2023/2/22	2026/2/21
R&S	Spectrum Analyzer	FSV40	101591	2023/3/31	2024/3/30
MICRO-COAX	Coaxial Cable	UFA210A-1-1200-70U300	217423-008	2023/8/6	2024/8/5
MICRO-COAX	Coaxial Cable	UFA210A-1-2362-300300	235780-001	2023/8/6	2024/8/5
Mini	Pre-amplifier	ZVA-183-S+	5969001149	2023/11/8	2024/11/7
Audix	Test Software	E3	201021 (V9)	N/A	N/A
PASTERNACK	Horn Antenna	PE9852/2F-20	112002	2021/2/5	2024/2/4
Quinstar	Preamplifier	QLW-18405536-JO	15964001005	2023/9/15	2024/9/14
MICRO-COAX	Coaxial Cable	UFB142A-1-2362-200200	235772-001	2023/8/6	2024/8/5
E-Microwave	Band Rejection Filter	2400-2483.5MHz	OE01902424	2023/8/6	2024/8/5
Mini Circuits	High Pass Filter	VHF-6010+	31119	2023/8/6	2024/8/5

**** Statement of Traceability:*** *China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

Test Data:

After pre-scan in the X, Y and Z axes of orientation, the worst-case Y axes is below:

Please refer to the below table and plots.

1) 9kHz~30MHz

The amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required to be report.

2) 30MHz-1GHz

Note:

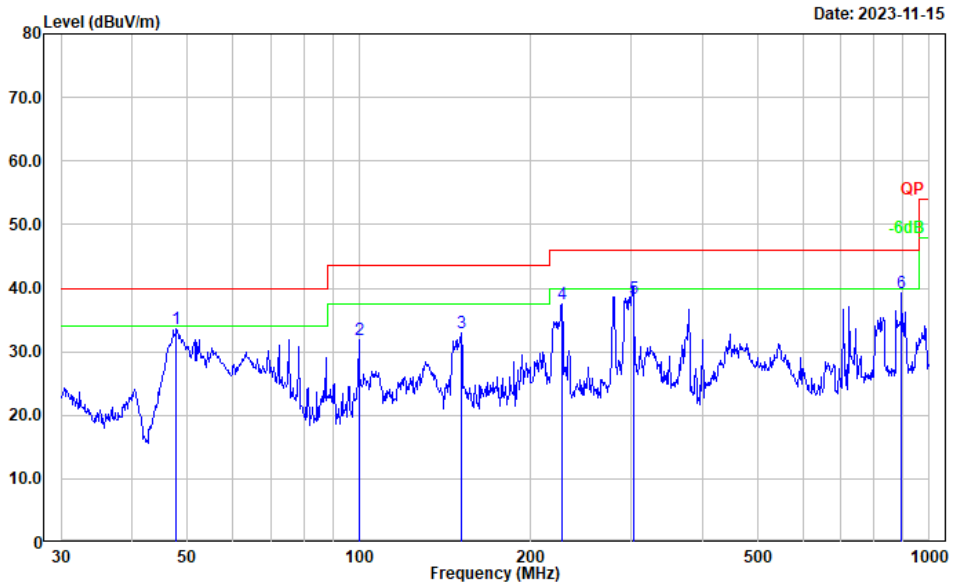
1. Powered from DC IN port was the worst.

2. Tested at Maximum output power mode: 802.11ax hew20.

Please refer to the below plots.

802.11ax hew20 - Low Channel - Horizontal

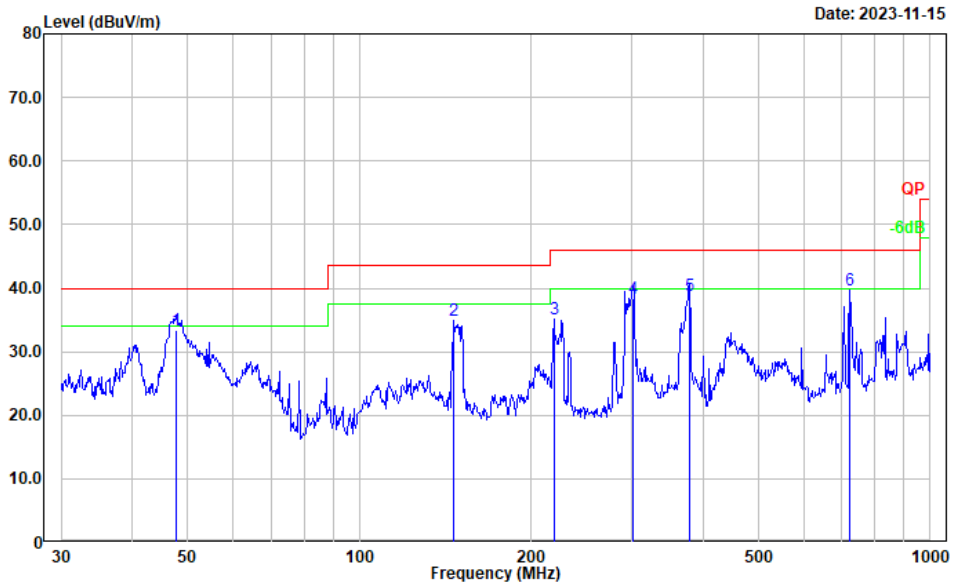
Project No.: CR231061450-RF
Tester: Jeff Luo
Polarization: horizontal
Note: Transmitting(2.4G WIFI(Charging by DC Adapter)



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	47.826	49.54	-15.87	33.67	40.00	6.33	Peak
2	99.878	46.13	-14.35	31.78	43.50	11.72	Peak
3	151.067	44.85	-11.95	32.90	43.50	10.60	Peak
4	226.894	50.41	-12.97	37.44	46.00	8.56	Peak
5	302.481	48.91	-10.61	38.30	46.00	7.70	QP
6	893.857	40.20	-1.02	39.18	46.00	6.82	Peak

802.11ax hew20 - Low Channel - Vertical

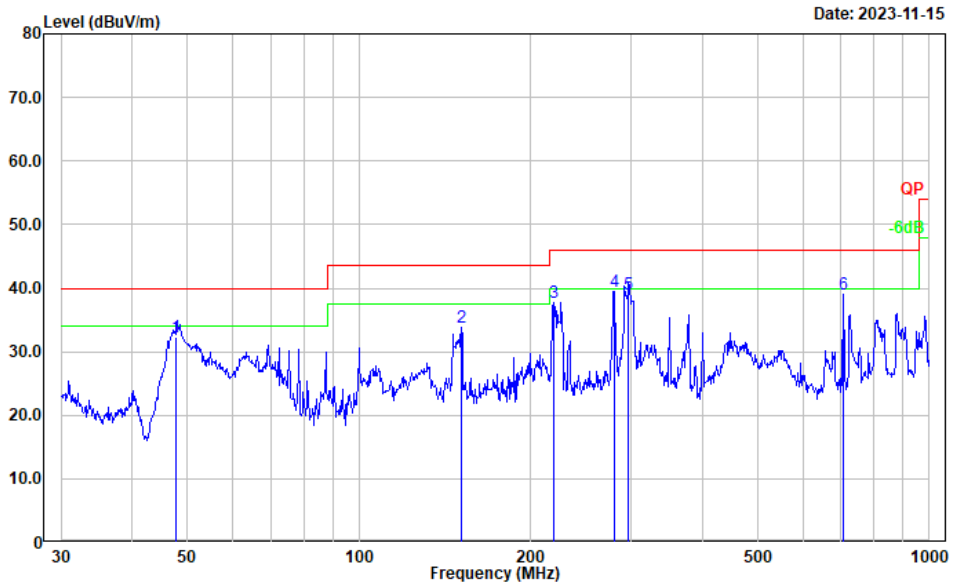
Project No.: CR231061450-RF
Tester: Jeff Luo
Polarization: vertical
Note: Transmitting(2.4G WIFI(Charging by DC Adapter)



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	47.659	49.24	-15.78	33.46	40.00	6.54	QP
2	146.374	46.74	-11.88	34.86	43.50	8.64	Peak
3	219.075	48.00	-12.82	35.18	46.00	10.82	Peak
4	301.422	48.92	-10.61	38.31	46.00	7.69	QP
5	378.584	47.94	-9.17	38.77	46.00	7.23	QP
6	724.261	42.83	-3.20	39.63	46.00	6.37	Peak

802.11ax hew20 - Middle Channel - Horizontal

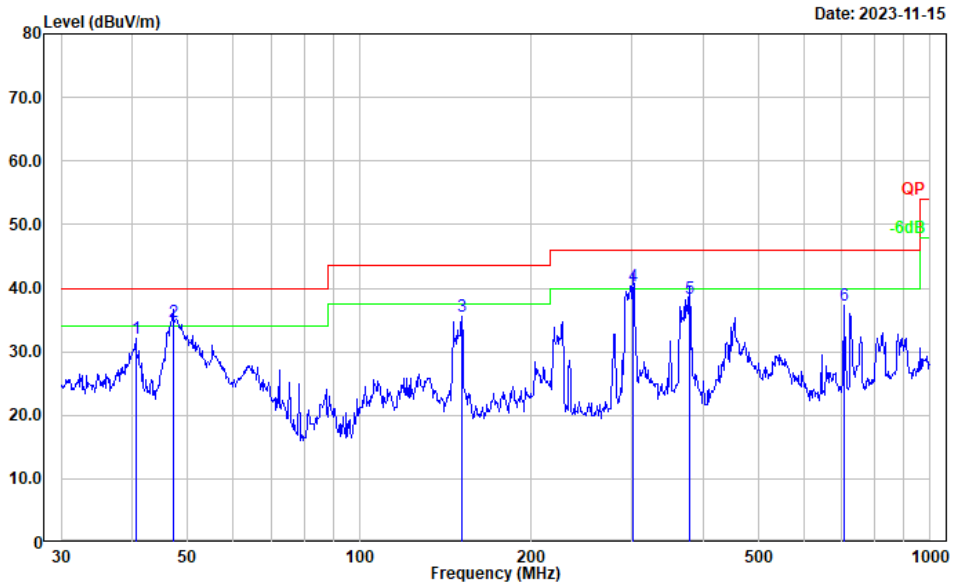
Project No.: CR231061450-RF
Tester: Jeff Luo
Polarization: horizontal
Note: Transmitting(2.4G WIFI(Charging by DC Adapter)



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	47.826	48.26	-15.87	32.39	40.00	7.61	QP
2	151.067	45.80	-11.95	33.85	43.50	9.65	Peak
3	219.075	50.56	-12.82	37.74	46.00	8.26	Peak
4	280.024	51.12	-11.70	39.42	46.00	6.58	Peak
5	297.224	49.73	-10.71	39.02	46.00	6.98	QP
6	706.700	42.66	-3.59	39.07	46.00	6.93	Peak

802.11ax hew20 - Middle Channel - Vertical

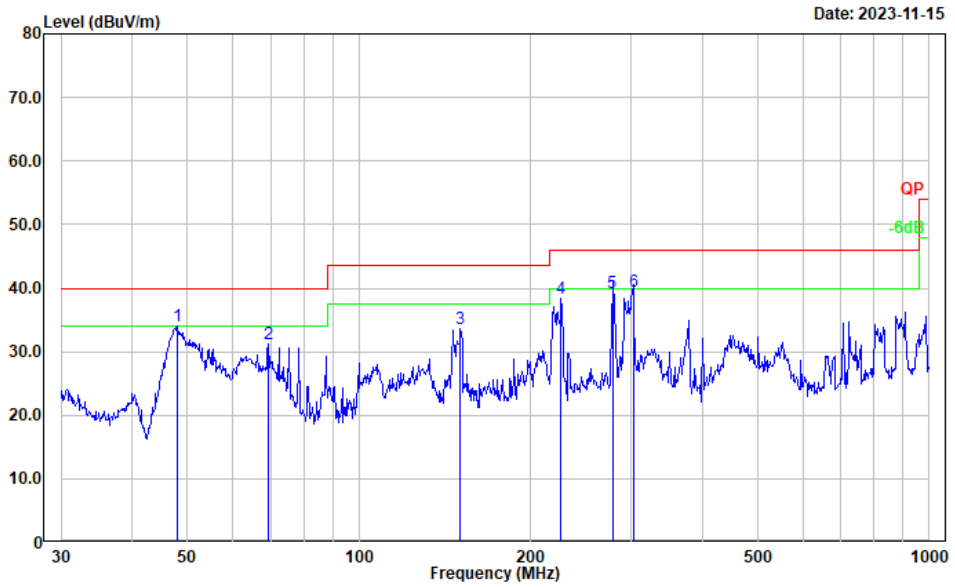
Project No.: CR231061450-RF
Tester: Jeff Luo
Polarization: vertical
Note: Transmitting(2.4G WIFI(Charging by DC Adapter)



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	40.559	43.87	-11.74	32.13	40.00	7.87	Peak
2	47.160	50.07	-15.48	34.59	40.00	5.41	QP
3	151.067	47.40	-11.95	35.45	43.50	8.05	Peak
4	301.422	50.88	-10.61	40.27	46.00	5.73	QP
5	378.584	47.57	-9.17	38.40	46.00	7.60	QP
6	706.700	40.81	-3.59	37.22	46.00	8.78	Peak

802.11ax hew20 - High Channel - Horizontal

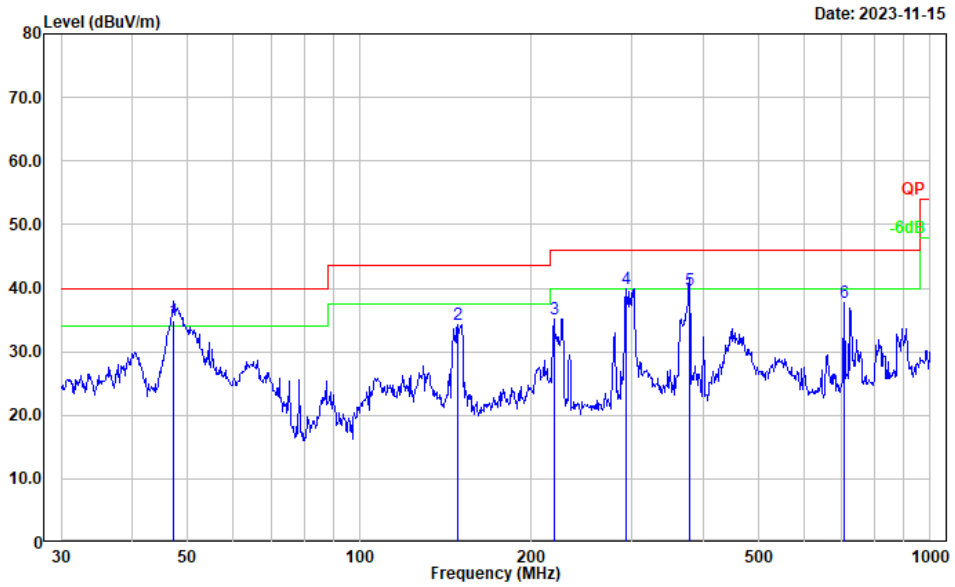
Project No.: CR231061450-RF
Tester: Jeff Luo
Polarization: horizontal
Note: Transmitting(2.4G WIFI(Charging by DC Adapter)



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	47.994	49.93	-15.97	33.96	40.00	6.04	Peak
2	69.357	47.94	-16.65	31.29	40.00	8.71	Peak
3	150.538	45.60	-11.93	33.67	43.50	9.83	Peak
4	226.099	51.29	-12.94	38.35	46.00	7.65	Peak
5	278.067	51.00	-11.80	39.20	46.00	6.80	QP
6	302.481	50.08	-10.61	39.47	46.00	6.53	QP

802.11ax hew20 - High Channel - Vertical

Project No.: CR231061450-RF
Tester: Jeff Luo
Polarization: vertical
Note: Transmitting(2.4G WIFI(Charging by DC Adapter)



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	47.160	50.35	-15.48	34.87	40.00	5.13	QP
2	148.441	46.22	-11.90	34.32	43.50	9.18	Peak
3	219.075	47.97	-12.82	35.15	46.00	10.85	Peak
4	293.084	50.79	-10.88	39.91	46.00	6.09	Peak
5	378.584	48.76	-9.17	39.59	46.00	6.41	QP
6	706.700	41.24	-3.59	37.65	46.00	8.35	Peak

3) 1-25GHz:

Note: Powered from Type-C port mode was performed to 1~25GHz Radiated Emission test.

802.11b Mode Chain 0:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel: 2412 MHz							
2390.000	26.48	PK	H	31.71	58.19	74.00	15.81
2390.000	13.57	AV	H	31.71	45.28	54.00	8.72
2390.000	26.51	PK	V	31.71	58.22	74.00	15.78
2390.000	13.44	AV	V	31.71	45.15	54.00	8.85
4824.000	35.62	PK	H	11.26	46.88	74.00	27.12
4824.000	22.13	AV	H	11.26	33.39	54.00	20.61
4824.000	35.55	PK	V	11.26	46.81	74.00	27.19
4824.000	22.34	AV	V	11.26	33.60	54.00	20.40
7236.000	33.46	PK	H	15.24	48.70	74.00	25.30
7236.000	20.28	AV	H	15.24	35.52	54.00	18.48
7236.000	33.63	PK	V	15.24	48.87	74.00	25.13
7236.000	20.18	AV	V	15.24	35.42	54.00	18.58
Middle Channel: 2437 MHz							
4874.000	35.63	PK	H	11.45	47.08	74.00	26.92
4874.000	22.32	AV	H	11.45	33.77	54.00	20.23
4874.000	35.41	PK	V	11.45	46.86	74.00	27.14
4874.000	22.29	AV	V	11.45	33.74	54.00	20.26
7311.000	33.73	PK	H	15.58	49.31	74.00	24.69
7311.000	20.46	AV	H	15.58	36.04	54.00	17.96
7311.000	33.81	PK	V	15.58	49.39	74.00	24.61
7311.000	20.39	AV	V	15.58	35.97	54.00	18.03
Addition Channel: 2467 MHz							
2483.500	28.99	PK	H	32.19	61.18	74.00	12.82
2483.500	16.46	AV	H	32.19	48.65	54.00	5.35
2483.500	27.96	PK	V	32.19	60.15	74.00	13.85
2483.500	14.59	AV	V	32.19	46.78	54.00	7.22
4934.000	35.02	PK	H	11.71	46.73	74.00	27.27
4934.000	23.13	AV	H	11.71	34.84	54.00	19.16
4934.000	34.95	PK	V	11.71	46.66	74.00	27.34
4934.000	22.21	AV	V	11.71	33.92	54.00	20.08
7401.000	33.58	PK	H	15.68	49.26	74.00	24.74
7401.000	20.57	AV	H	15.68	36.25	54.00	17.75
7401.000	33.67	PK	V	15.68	49.35	74.00	24.65
7401.000	20.66	AV	V	15.68	36.34	54.00	17.66

High Channel:				2472	MHz		
2483.500	33.20	PK	H	32.19	65.39	74.00	8.61
2483.500	20.78	AV	H	32.19	52.97	54.00	1.03
2483.500	29.05	PK	V	32.19	61.24	74.00	12.76
2483.500	16.06	AV	V	32.19	48.25	54.00	5.75
4944.000	35.10	PK	H	11.74	46.84	74.00	27.16
4944.000	23.33	AV	H	11.74	35.07	54.00	18.93
4944.000	35.33	PK	V	11.74	47.07	74.00	26.93
4944.000	23.74	AV	V	11.74	35.48	54.00	18.52
7416.000	33.55	PK	H	15.80	49.35	74.00	24.65
7416.000	20.77	AV	H	15.80	36.57	54.00	17.43
7416.000	33.69	PK	V	15.80	49.49	74.00	24.51
7416.000	20.01	AV	V	15.80	35.81	54.00	18.19

802.11b Mode Chain 1:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel:				2412	MHz		
2390.000	26.67	PK	H	31.71	58.38	74.00	15.62
2390.000	13.85	AV	H	31.71	45.56	54.00	8.44
2390.000	26.84	PK	V	31.71	58.55	74.00	15.45
2390.000	13.88	AV	V	31.71	45.59	54.00	8.41
4824.000	35.36	PK	H	11.26	46.62	74.00	27.38
4824.000	22.13	AV	H	11.26	33.39	54.00	20.61
4824.000	35.41	PK	V	11.26	46.67	74.00	27.33
4824.000	22.30	AV	V	11.26	33.56	54.00	20.44
7236.000	33.63	PK	H	15.24	48.87	74.00	25.13
7236.000	20.32	AV	H	15.24	35.56	54.00	18.44
7236.000	33.51	PK	V	15.24	48.75	74.00	25.25
7236.000	20.55	AV	V	15.24	35.79	54.00	18.21
Middle Channel:				2437	MHz		
4874.000	35.74	PK	H	11.45	47.19	74.00	26.81
4874.000	22.28	AV	H	11.45	33.73	54.00	20.27
4874.000	35.81	PK	V	11.45	47.26	74.00	26.74
4874.000	22.64	AV	V	11.45	34.09	54.00	19.91
7311.000	33.39	PK	H	15.58	48.97	74.00	25.03
7311.000	20.81	AV	H	15.58	36.39	54.00	17.61
7311.000	33.76	PK	V	15.58	49.34	74.00	24.66
7311.000	20.64	AV	V	15.58	36.22	54.00	17.78

Addition Channel:				2467	MHz		
2483.500	28.66	PK	H	32.19	60.85	74.00	13.15
2483.500	16.08	AV	H	32.19	48.27	54.00	5.73
2483.500	27.58	PK	V	32.19	59.77	74.00	14.23
2483.500	14.69	AV	V	32.19	46.88	54.00	7.12
4934.000	35.36	PK	H	11.71	47.07	74.00	26.93
4934.000	23.17	AV	H	11.71	34.88	54.00	19.12
4934.000	34.69	PK	V	11.71	46.40	74.00	27.60
4934.000	22.28	AV	V	11.71	33.99	54.00	20.01
7401.000	33.66	PK	H	15.68	49.34	74.00	24.66
7401.000	21.03	AV	H	15.68	36.71	54.00	17.29
7401.000	33.45	PK	V	15.68	49.13	74.00	24.87
7401.000	20.66	AV	V	15.68	36.34	54.00	17.66
High Channel:				2472	MHz		
2483.500	31.76	PK	H	32.19	63.95	74.00	10.05
2483.500	20.47	AV	H	32.19	52.66	54.00	1.34
2483.500	29.31	PK	V	32.19	61.50	74.00	12.50
2483.500	16.87	AV	V	32.19	49.06	54.00	4.94
4944.000	35.21	PK	H	11.74	46.95	74.00	27.05
4944.000	23.02	AV	H	11.74	34.76	54.00	19.24
4944.000	34.54	PK	V	11.74	46.28	74.00	27.72
4944.000	22.00	AV	V	11.74	33.74	54.00	20.26
7416.000	33.53	PK	H	15.80	49.33	74.00	24.67
7416.000	20.96	AV	H	15.80	36.76	54.00	17.24
7416.000	33.35	PK	V	15.80	49.15	74.00	24.85
7416.000	20.84	AV	V	15.80	36.64	54.00	17.36

802.11g Mode Chain 0:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel:				2412	MHz		
2390.000	27.03	PK	H	31.71	58.74	74.00	15.26
2390.000	13.88	AV	H	31.71	45.59	54.00	8.41
2390.000	27.13	PK	V	31.71	58.84	74.00	15.16
2390.000	13.94	AV	V	31.71	45.65	54.00	8.35
4824.000	34.76	PK	H	11.26	46.02	74.00	27.98
4824.000	21.85	AV	H	11.26	33.11	54.00	20.89
4824.000	34.69	PK	V	11.26	45.95	74.00	28.05
4824.000	21.80	AV	V	11.26	33.06	54.00	20.94
7236.000	33.53	PK	H	15.24	48.77	74.00	25.23

7236.000	21.49	AV	H	15.24	36.73	54.00	17.27
7236.000	33.72	PK	V	15.24	48.96	74.00	25.04
7236.000	20.13	AV	V	15.24	35.37	54.00	18.63
Middle Channel: 2437 MHz							
4874.000	34.64	PK	H	11.45	46.09	74.00	27.91
4874.000	21.53	AV	H	11.45	32.98	54.00	21.02
4874.000	34.81	PK	V	11.45	46.26	74.00	27.74
4874.000	21.79	AV	V	11.45	33.24	54.00	20.76
7311.000	33.26	PK	H	15.58	48.84	74.00	25.16
7311.000	20.56	AV	H	15.58	36.14	54.00	17.86
7311.000	33.37	PK	V	15.58	48.95	74.00	25.05
7311.000	20.84	AV	V	15.58	36.42	54.00	17.58
Addition Channel: 2467 MHz							
2483.500	36.09	PK	H	32.19	68.28	74.00	5.72
2483.500	20.75	AV	H	32.19	52.94	54.00	1.06
2483.500	30.31	PK	V	32.19	62.50	74.00	11.50
2483.500	16.29	AV	V	32.19	48.48	54.00	5.52
4934.000	35.12	PK	H	11.71	46.83	74.00	27.17
4934.000	23.23	AV	H	11.71	34.94	54.00	19.06
4934.000	34.77	PK	V	11.71	46.48	74.00	27.52
4934.000	22.06	AV	V	11.71	33.77	54.00	20.23
7401.000	33.52	PK	H	15.68	49.20	74.00	24.80
7401.000	20.96	AV	H	15.68	36.64	54.00	17.36
7401.000	33.84	PK	V	15.68	49.52	74.00	24.48
7401.000	20.74	AV	V	15.68	36.42	54.00	17.58
High Channel: 2472 MHz							
2483.500	37.46	PK	H	32.19	69.65	74.00	4.35
2483.500	20.78	AV	H	32.19	52.97	54.00	1.03
2483.500	32.07	PK	V	32.19	64.26	74.00	9.74
2483.500	17.33	AV	V	32.19	49.52	54.00	4.48
4944.000	35.54	PK	H	11.74	47.28	74.00	26.72
4944.000	23.33	AV	H	11.74	35.07	54.00	18.93
4944.000	35.20	PK	V	11.74	46.94	74.00	27.06
4944.000	23.06	AV	V	11.74	34.80	54.00	19.20
7416.000	33.77	PK	H	15.80	49.57	74.00	24.43
7416.000	20.78	AV	H	15.80	36.58	54.00	17.42
7416.000	33.86	PK	V	15.80	49.66	74.00	24.34
7416.000	20.69	AV	V	15.80	36.49	54.00	17.51

802.11g Mode Chain 1:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel: 2412 MHz							
2390.000	26.97	PK	H	31.71	58.68	74.00	15.32
2390.000	13.75	AV	H	31.71	45.46	54.00	8.54
2390.000	26.86	PK	V	31.71	58.57	74.00	15.43
2390.000	13.82	AV	V	31.71	45.53	54.00	8.47
4824.000	35.29	PK	H	11.26	46.55	74.00	27.45
4824.000	22.27	AV	H	11.26	33.53	54.00	20.47
4824.000	35.61	PK	V	11.26	46.87	74.00	27.13
4824.000	22.27	AV	V	11.26	33.53	54.00	20.47
7236.000	34.38	PK	H	15.24	49.62	74.00	24.38
7236.000	20.83	AV	H	15.24	36.07	54.00	17.93
7236.000	34.56	PK	V	15.24	49.80	74.00	24.20
7236.000	20.90	AV	V	15.24	36.14	54.00	17.86
Middle Channel: 2437 MHz							
4874.000	35.69	PK	H	11.45	47.14	74.00	26.86
4874.000	22.38	AV	H	11.45	33.83	54.00	20.17
4874.000	34.79	PK	V	11.45	46.24	74.00	27.76
4874.000	22.03	AV	V	11.45	33.48	54.00	20.52
7311.000	33.67	PK	H	15.58	49.25	74.00	24.75
7311.000	20.05	AV	H	15.58	35.63	54.00	18.37
7311.000	33.57	PK	V	15.58	49.15	74.00	24.85
7311.000	20.32	AV	V	15.58	35.90	54.00	18.10
Addition Channel: 2467 MHz							
2483.500	35.35	PK	H	32.19	67.54	74.00	6.46
2483.500	20.73	AV	H	32.19	52.92	54.00	1.08
2483.500	31.83	PK	V	32.19	64.02	74.00	9.98
2483.500	17.20	AV	V	32.19	49.39	54.00	4.61
4934.000	35.12	PK	H	11.71	46.83	74.00	27.17
4934.000	23.05	AV	H	11.71	34.76	54.00	19.24
4934.000	35.33	PK	V	11.71	47.04	74.00	26.96
4934.000	23.47	AV	V	11.71	35.18	54.00	18.82
7401.000	33.69	PK	H	15.68	49.37	74.00	24.63
7401.000	20.44	AV	H	15.68	36.12	54.00	17.88
7401.000	33.52	PK	V	15.68	49.20	74.00	24.80
7401.000	20.35	AV	V	15.68	36.03	54.00	17.97

High Channel:				2472	MHz		
2483.500	36.11	PK	H	32.19	68.30	74.00	5.70
2483.500	20.52	AV	H	32.19	52.71	54.00	1.29
2483.500	31.52	PK	V	32.19	63.71	74.00	10.29
2483.500	17.43	AV	V	32.19	49.62	54.00	4.38
4944.000	34.66	PK	H	11.74	46.40	74.00	27.60
4944.000	22.01	AV	H	11.74	33.75	54.00	20.25
4944.000	34.79	PK	V	11.74	46.53	74.00	27.47
4944.000	22.20	AV	V	11.74	33.94	54.00	20.06
7416.000	33.56	PK	H	15.80	49.36	74.00	24.64
7416.000	20.49	AV	H	15.80	36.29	54.00	17.71
7416.000	33.69	PK	V	15.80	49.49	74.00	24.51
7416.000	20.44	AV	V	15.80	36.24	54.00	17.76

802.11n ht20 Mode:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel:				2412	MHz		
2390.000	27.52	PK	H	31.71	59.23	74.00	14.77
2390.000	13.41	AV	H	31.71	45.12	54.00	8.88
2390.000	27.66	PK	V	31.71	59.37	74.00	14.63
2390.000	13.89	AV	V	31.71	45.60	54.00	8.40
4824.000	36.02	PK	H	11.26	47.28	74.00	26.72
4824.000	23.09	AV	H	11.26	34.35	54.00	19.65
4824.000	36.33	PK	V	11.26	47.59	74.00	26.41
4824.000	23.10	AV	V	11.26	34.36	54.00	19.64
7236.000	33.36	PK	H	15.24	48.60	74.00	25.40
7236.000	20.25	AV	H	15.24	35.49	54.00	18.51
7236.000	33.38	PK	V	15.24	48.62	74.00	25.38
7236.000	20.47	AV	V	15.24	35.71	54.00	18.29
Middle Channel:				2437	MHz		
4874.000	35.20	PK	H	11.45	46.65	74.00	27.35
4874.000	22.10	AV	H	11.45	33.55	54.00	20.45
4874.000	35.77	PK	V	11.45	47.22	74.00	26.78
4874.000	22.13	AV	V	11.45	33.58	54.00	20.42
7311.000	33.39	PK	H	15.58	48.97	74.00	25.03
7311.000	20.58	AV	H	15.58	36.16	54.00	17.84
7311.000	33.63	PK	V	15.58	49.21	74.00	24.79
7311.000	20.52	AV	V	15.58	36.10	54.00	17.90

Addition Channel:				2467	MHz		
2483.500	40.12	PK	H	32.19	72.31	74.00	1.69
2483.500	18.86	AV	H	32.19	51.05	54.00	2.95
2483.500	35.11	PK	V	32.19	67.30	74.00	6.70
2483.500	16.37	AV	V	32.19	48.56	54.00	5.44
4934.000	35.21	PK	H	11.71	46.92	74.00	27.08
4934.000	23.06	AV	H	11.71	34.77	54.00	19.23
4934.000	35.44	PK	V	11.71	47.15	74.00	26.85
4934.000	23.29	AV	V	11.71	35.00	54.00	19.00
7401.000	33.74	PK	H	15.68	49.42	74.00	24.58
7401.000	20.78	AV	H	15.68	36.46	54.00	17.54
7401.000	33.64	PK	V	15.68	49.32	74.00	24.68
7401.000	20.49	AV	V	15.68	36.17	54.00	17.83
High Channel:				2472	MHz		**8**
2483.500	40.11	PK	H	32.19	72.30	74.00	1.70
2483.500	18.78	AV	H	32.19	50.97	54.00	3.03
2483.500	34.69	PK	V	32.19	66.88	74.00	7.12
2483.500	16.23	AV	V	32.19	48.42	54.00	5.58
4944.000	35.41	PK	H	11.74	47.15	74.00	26.85
4944.000	23.22	AV	H	11.74	34.96	54.00	19.04
4944.000	35.13	PK	V	11.74	46.87	74.00	27.13
4944.000	23.89	AV	V	11.74	35.63	54.00	18.37
7416.000	33.45	PK	H	15.80	49.25	74.00	24.75
7416.000	20.55	AV	H	15.80	36.35	54.00	17.65
7416.000	33.56	PK	V	15.80	49.36	74.00	24.64
7416.000	20.66	AV	V	15.80	36.46	54.00	17.54

802.11n ht40 Mode:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel:				2422	MHz		
2390.000	26.93	PK	H	31.71	58.64	74.00	15.36
2390.000	14.10	AV	H	31.71	45.81	54.00	8.19
2390.000	27.15	PK	V	31.71	58.86	74.00	15.14
2390.000	14.62	AV	V	31.71	46.33	54.00	7.67
4844.000	34.98	PK	H	11.31	46.29	74.00	27.71
4844.000	22.02	AV	H	11.31	33.33	54.00	20.67
4844.000	35.23	PK	V	11.31	46.54	74.00	27.46
4844.000	22.47	AV	V	11.31	33.78	54.00	20.22
7266.000	33.36	PK	H	15.43	48.79	74.00	25.21

7266.000	20.36	AV	H	15.43	35.79	54.00	18.21
7266.000	33.62	PK	V	15.43	49.05	74.00	24.95
7266.000	20.54	AV	V	15.43	35.97	54.00	18.03
Middle Channel: 2437 MHz							
4874.000	35.66	PK	H	11.45	47.11	74.00	26.89
4874.000	22.52	AV	H	11.45	33.97	54.00	20.03
4874.000	35.68	PK	V	11.45	47.13	74.00	26.87
4874.000	22.74	AV	V	11.45	34.19	54.00	19.81
7311.000	33.20	PK	H	15.58	48.78	74.00	25.22
7311.000	20.41	AV	H	15.58	35.99	54.00	18.01
7311.000	33.32	PK	V	15.58	48.90	74.00	25.10
7311.000	20.52	AV	V	15.58	36.10	54.00	17.90
High Channel: 2457 MHz							
2483.500	28.88	PK	H	32.19	61.07	74.00	12.94
2483.500	14.63	AV	H	32.19	46.82	54.00	7.18
2483.500	29.20	PK	V	32.19	61.39	74.00	12.61
2483.500	15.41	AV	V	32.19	47.60	54.00	6.40
4914.000	35.26	PK	H	11.58	46.84	74.00	27.16
4914.000	22.41	AV	H	11.58	33.99	54.00	20.01
4914.000	35.32	PK	V	11.58	46.90	74.00	27.10
4914.000	22.68	AV	V	11.58	34.26	54.00	19.74
7371.000	33.35	PK	H	15.55	48.90	74.00	25.10
7371.000	20.41	AV	H	15.55	35.96	54.00	18.04
7371.000	33.71	PK	V	15.55	49.26	74.00	24.74
7371.000	20.65	AV	V	15.55	36.20	54.00	17.80
High Channel: 2462 MHz							
2483.500	39.42	PK	H	32.19	71.61	74.00	2.39
2483.500	17.74	AV	H	32.19	49.93	54.00	4.07
2483.500	33.69	PK	V	32.19	65.88	74.00	8.12
2483.500	15.35	AV	V	32.19	47.54	54.00	6.46
4924.000	35.12	PK	H	11.67	46.79	74.00	27.21
4924.000	23.03	AV	H	11.67	34.70	54.00	19.30
4924.000	35.22	PK	V	11.67	46.89	74.00	27.11
4924.000	23.07	AV	V	11.67	34.74	54.00	19.26
7386.000	33.69	PK	H	15.63	49.32	74.00	24.68
7386.000	20.74	AV	H	15.63	36.37	54.00	17.63
7386.000	33.58	PK	V	15.63	49.21	74.00	24.79
7386.000	20.45	AV	V	15.63	36.08	54.00	17.92

802.11ax20 Mode:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel: 2412 MHz							
2390.000	27.13	PK	H	31.71	58.84	74.00	15.16
2390.000	13.82	AV	H	31.71	45.53	54.00	8.47
2390.000	27.64	PK	V	31.71	59.35	74.00	14.65
2390.000	14.05	AV	V	31.71	45.76	54.00	8.24
4824.000	35.64	PK	H	11.26	46.90	74.00	27.10
4824.000	22.38	AV	H	11.26	33.64	54.00	20.36
4824.000	35.48	PK	V	11.26	46.74	74.00	27.26
4824.000	22.15	AV	V	11.26	33.41	54.00	20.59
7236.000	33.62	PK	H	15.24	48.86	74.00	25.14
7236.000	20.47	AV	H	15.24	35.71	54.00	18.29
7236.000	33.24	PK	V	15.24	48.48	74.00	25.52
7236.000	20.51	AV	V	15.24	35.75	54.00	18.25
Middle Channel: 2437 MHz							
4874.000	35.73	PK	H	11.45	47.18	74.00	26.82
4874.000	21.84	AV	H	11.45	33.29	54.00	20.71
4874.000	35.26	PK	V	11.45	46.71	74.00	27.29
4874.000	21.97	AV	V	11.45	33.42	54.00	20.58
7311.000	33.61	PK	H	15.58	49.19	74.00	24.81
7311.000	20.48	AV	H	15.58	36.06	54.00	17.94
7311.000	33.50	PK	V	15.58	49.08	74.00	24.92
7311.000	20.29	AV	V	15.58	35.87	54.00	18.13
Addition Channel: 2467 MHz							
2483.500	33.52	PK	H	32.19	65.71	74.00	8.29
2483.500	16.23	AV	H	32.19	48.42	54.00	5.58
2483.500	30.41	PK	V	32.19	62.60	74.00	11.40
2483.500	15.22	AV	V	32.19	47.41	54.00	6.59
4934.000	34.84	PK	H	11.71	46.55	74.00	27.45
4934.000	22.01	AV	H	11.71	33.72	54.00	20.28
4934.000	34.63	PK	V	11.71	46.34	74.00	27.66
4934.000	22.21	AV	V	11.71	33.92	54.00	20.08
7401.000	33.59	PK	H	15.68	49.27	74.00	24.73
7401.000	20.96	AV	H	15.68	36.64	54.00	17.36
7401.000	33.41	PK	V	15.68	49.09	74.00	24.91
7401.000	20.67	AV	V	15.68	36.35	54.00	17.65

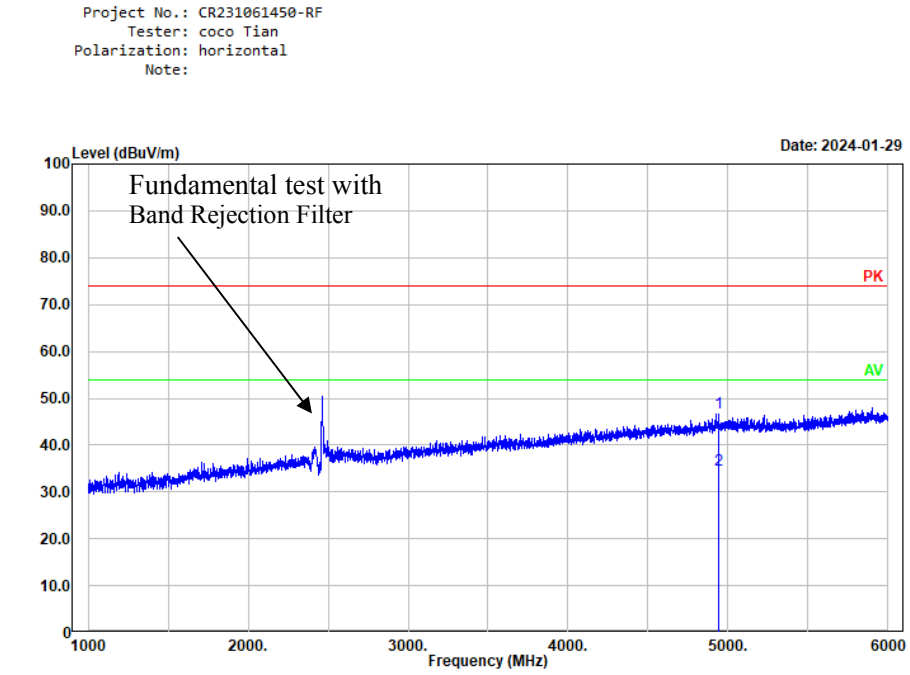
High Channel:				2472	MHz		
2483.500	39.65	PK	H	32.19	71.84	74.00	2.16
2483.500	16.67	AV	H	32.19	48.86	54.00	5.14
2483.500	36.23	PK	V	32.19	68.42	74.00	5.58
2483.500	15.20	AV	V	32.19	47.39	54.00	6.61
4944.000	34.78	PK	H	11.74	46.52	74.00	27.48
4944.000	22.01	AV	H	11.74	33.75	54.00	20.25
4944.000	34.62	PK	V	11.74	46.36	74.00	27.64
4944.000	22.09	AV	V	11.74	33.83	54.00	20.17
7416.000	33.44	PK	H	15.80	49.24	74.00	24.76
7416.000	20.47	AV	H	15.80	36.27	54.00	17.73
7416.000	33.96	PK	V	15.80	49.76	74.00	24.24
7416.000	20.55	AV	V	15.80	36.35	54.00	17.65

802.11ax40 Mode:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel:				2422	MHz		
2390.000	27.03	PK	H	31.71	58.74	74.00	15.26
2390.000	13.87	AV	H	31.71	45.58	54.00	8.42
2390.000	27.11	PK	V	31.71	58.82	74.00	15.18
2390.000	13.91	AV	V	31.71	45.62	54.00	8.38
4844.000	35.12	PK	H	11.31	46.43	74.00	27.57
4844.000	22.08	AV	H	11.31	33.39	54.00	20.61
4844.000	35.36	PK	V	11.31	46.67	74.00	27.33
4844.000	22.17	AV	V	11.31	33.48	54.00	20.52
7266.000	33.25	PK	H	15.43	48.68	74.00	25.32
7266.000	20.31	AV	H	15.43	35.74	54.00	18.26
7266.000	33.68	PK	V	15.43	49.11	74.00	24.89
7266.000	20.43	AV	V	15.43	35.86	54.00	18.14
Middle Channel:				2437	MHz		
4874.000	35.39	PK	H	11.45	46.84	74.00	27.16
4874.000	22.73	AV	H	11.45	34.18	54.00	19.82
4874.000	35.27	PK	V	11.45	46.72	74.00	27.28
4874.000	22.43	AV	V	11.45	33.88	54.00	20.12
7311.000	33.61	PK	H	15.58	49.19	74.00	24.81
7311.000	20.22	AV	H	15.58	35.80	54.00	18.20
7311.000	33.57	PK	V	15.58	49.15	74.00	24.85
7311.000	20.31	AV	V	15.58	35.89	54.00	18.11

Addition Channel:				2457	MHz		
2483.500	28.11	PK	H	32.19	60.30	74.00	13.70
2483.500	14.35	AV	H	32.19	46.54	54.00	7.46
2483.500	28.56	PK	V	32.19	60.75	74.00	13.25
2483.500	14.67	AV	V	32.19	46.86	54.00	7.14
4914.000	35.62	PK	H	11.58	47.20	74.00	26.80
4914.000	22.27	AV	H	11.58	33.85	54.00	20.15
4914.000	35.49	PK	V	11.58	47.07	74.00	26.93
4914.000	22.58	AV	V	11.58	34.16	54.00	19.84
7371.000	33.64	PK	H	15.55	49.19	74.00	24.81
7371.000	20.18	AV	H	15.55	35.73	54.00	18.27
7371.000	33.59	PK	V	15.55	49.14	74.00	24.86
7371.000	20.37	AV	V	15.55	35.92	54.00	18.08
High Channel:				2462	MHz		
2483.500	39.65	PK	H	32.19	71.84	74.00	2.16
2483.500	18.57	AV	H	32.19	50.76	54.00	3.24
2483.500	35.23	PK	V	32.19	67.42	74.00	6.58
2483.500	16.20	AV	V	32.19	48.39	54.00	5.61
4924.000	34.45	PK	H	11.67	46.12	74.00	27.88
4924.000	22.01	AV	H	11.67	33.68	54.00	20.32
4924.000	34.84	PK	V	11.67	46.51	74.00	27.49
4924.000	22.31	AV	V	11.67	33.98	54.00	20.02
7386.000	33.69	PK	H	15.63	49.32	74.00	24.68
7386.000	20.67	AV	H	15.63	36.30	54.00	17.70
7386.000	33.88	PK	V	15.63	49.51	74.00	24.49
7386.000	20.59	AV	V	15.63	36.22	54.00	17.78

Worst Radiation Spurious Emissions Margin Test plots
(802.11b Chain 1 High channel was the worst):

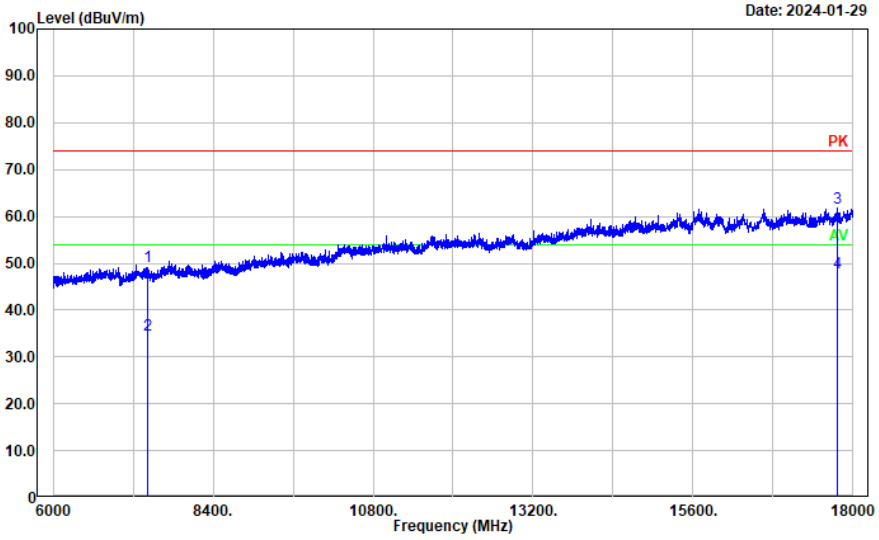
Horizontal	
1-6GHz	

No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	4944.000	35.21	11.74	46.95	74.00	27.05	Peak
2	4944.000	23.02	11.74	34.76	54.00	19.24	Average

Horizontal

6-18GHz

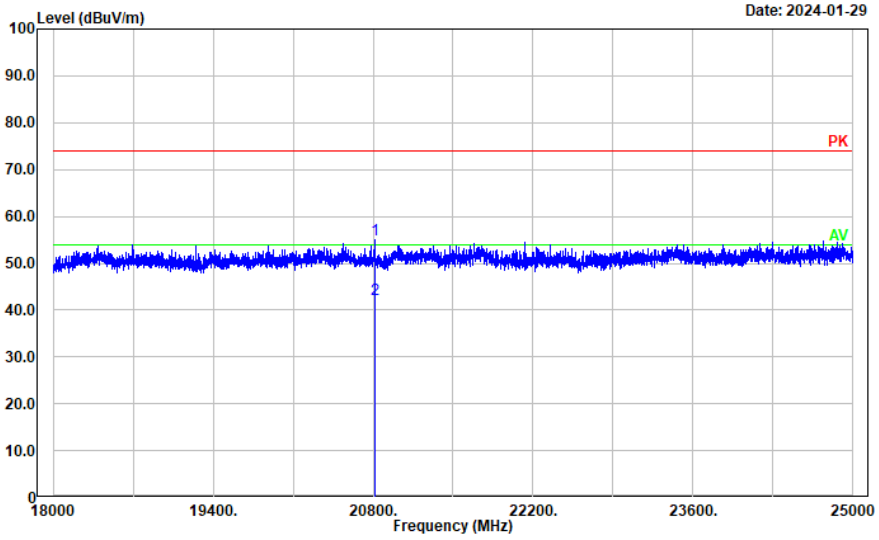
Project No.: CR231061450-RF
Tester: coco Tian
Polarization: horizontal
Note:



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	7416.000	33.53	15.80	49.33	74.00	24.67	Peak
2	7416.000	18.96	15.80	34.76	54.00	19.24	Average
3	17769.550	30.36	31.51	61.87	74.00	12.13	Peak
4	17769.550	16.47	31.51	47.98	54.00	6.02	Average

Horizontal	
18-25GHz	

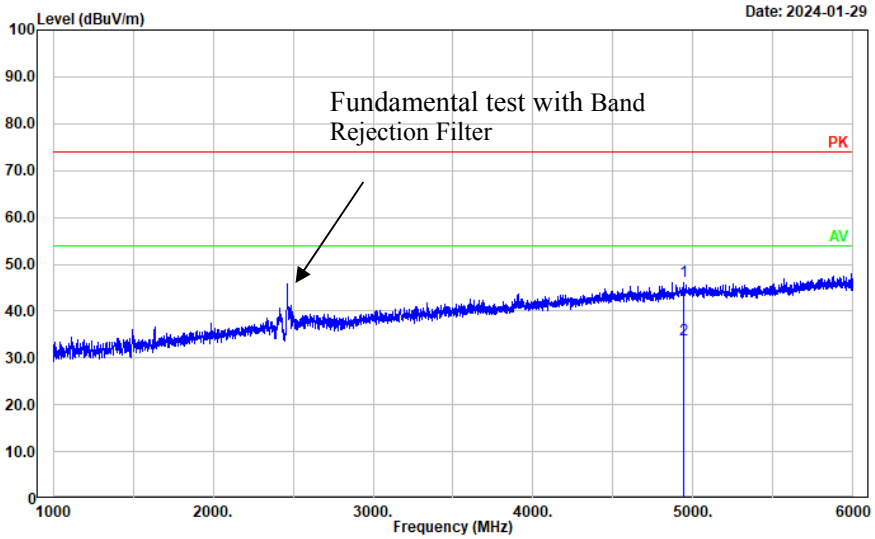
Project No.: CR231061450-RF
Tester: coco Tian
Polarization: Horizontal
Note:



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	20820.160	50.56	4.45	55.01	74.00	18.99	Peak
2	20820.160	37.90	4.45	42.35	54.00	11.65	Average

Vertical	
1-6GHz	

Project No.: CR231061450-RF
Tester: coco Tian
Polarization: vertical
Note:

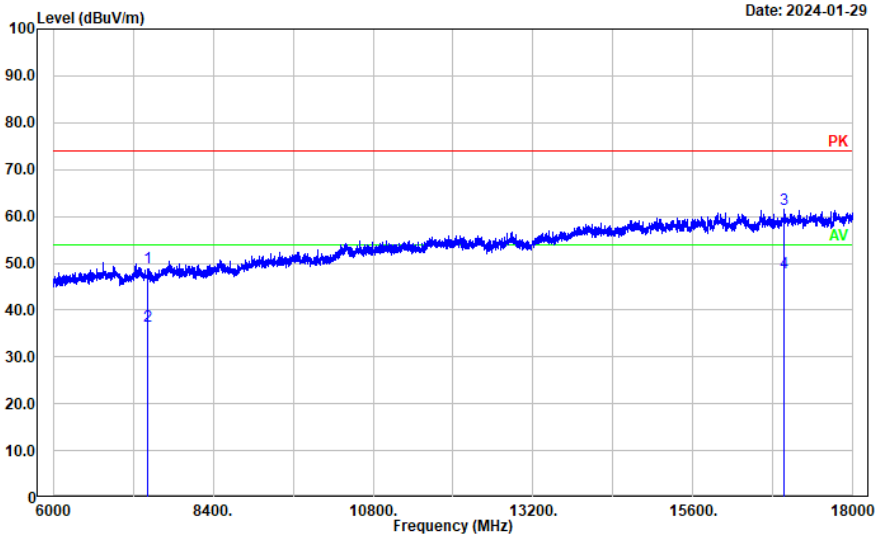


No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	4944.000	34.54	11.74	46.28	74.00	27.72	Peak
2	4944.000	22.00	11.74	33.74	54.00	20.26	Average

Vertical

6-18GHz

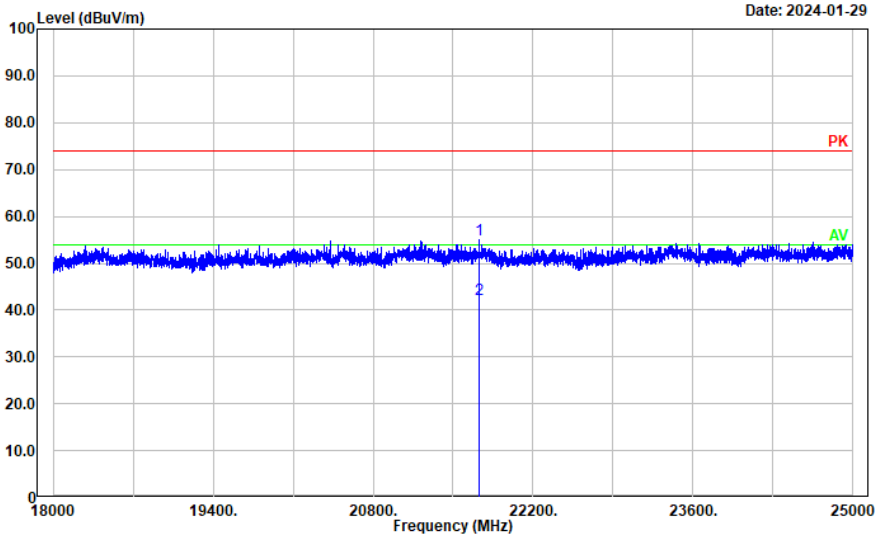
Project No.: CR231061450-RF
Tester: coco Tian
Polarization: vertical
Note:



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	7416.000	33.35	15.80	49.15	74.00	24.85	Peak
2	7416.000	20.84	15.80	36.64	54.00	17.36	Average
3	16962.990	33.49	27.92	61.41	74.00	12.59	Peak
4	16962.990	19.96	27.92	47.88	54.00	6.12	Average

Vertical	
18-25GHz	

Project No.: CR231061450-RF
Tester: coco Tian
Polarization: Vertical
Note:



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	21727.540	49.94	4.98	54.92	74.00	19.08	Peak
2	21727.540	37.37	4.98	42.35	54.00	11.65	Average

4.3 Minimum 6 dB Emission Bandwidth

Serial Number:	2CHV-2	Test Date:	2023/11/1~2024/2/2
Test Site:	RF	Test Mode:	Transmitting
Tester:	Arthur Su	Test Result:	Pass

Environmental Conditions:					
Temperature: (℃)	24.5-25.6	Relative Humidity: (%)	45-53	ATM Pressure: (kPa)	101.1-101.4

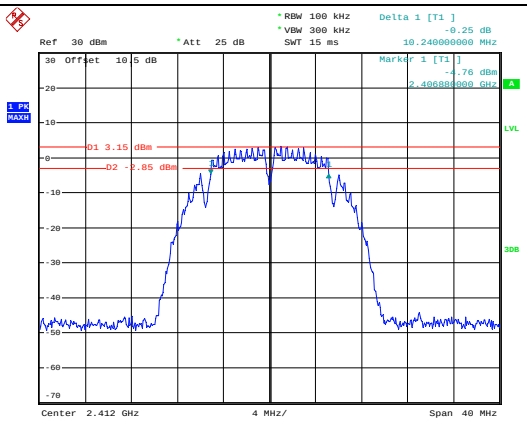
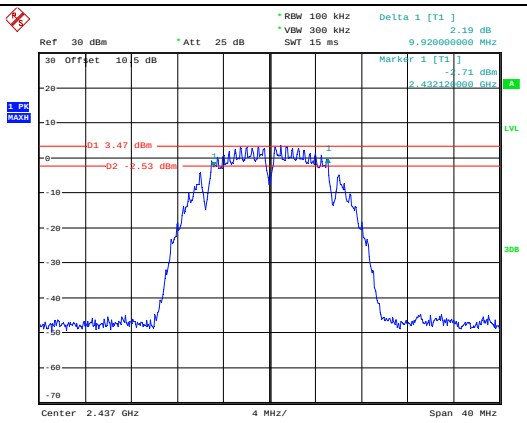
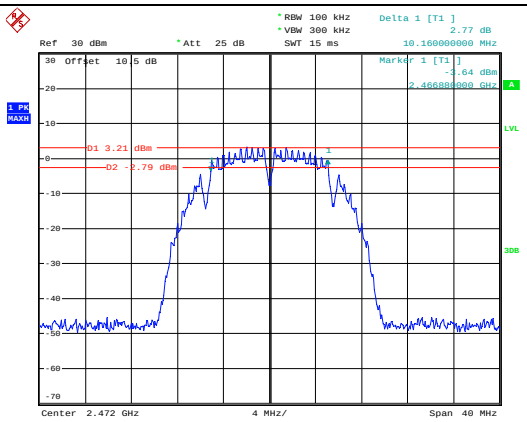
Test Equipment List and Details:

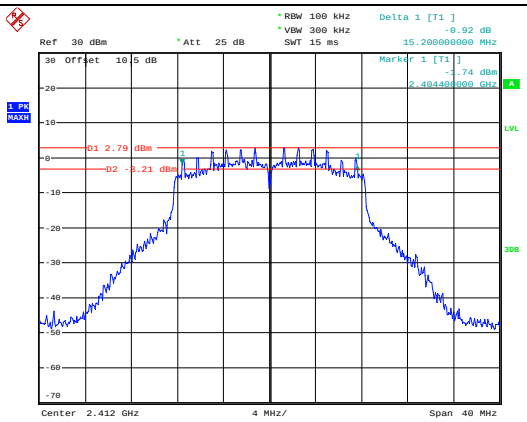
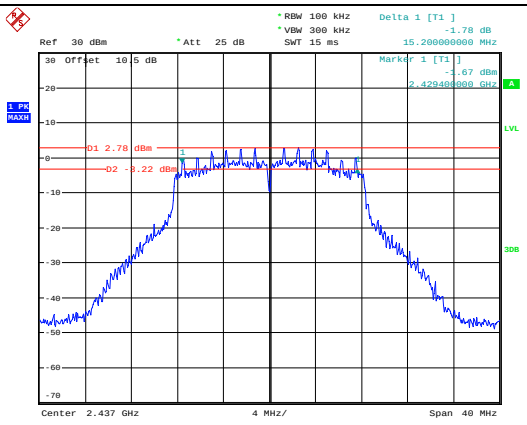
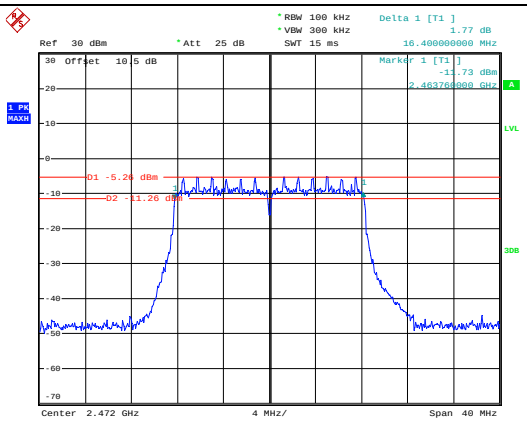
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSU26	200256	2023/3/31	2024/3/30
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A
eastsheep	Coaxial Attenuator	2W-SMA-JK-18G	21060301	Each time	N/A
R&S	Spectrum Analyzer	FSU26	100147	2023/3/31	2024/3/30

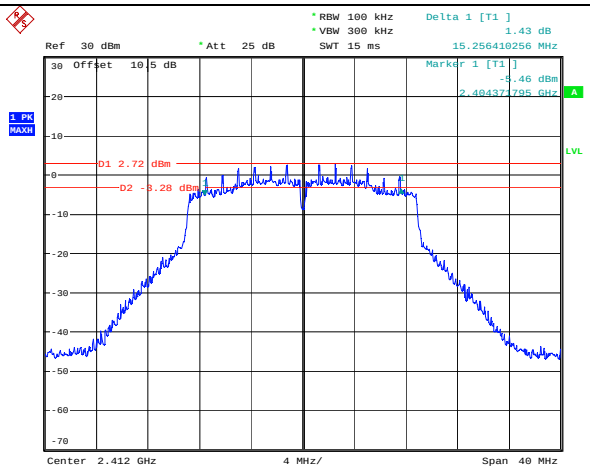
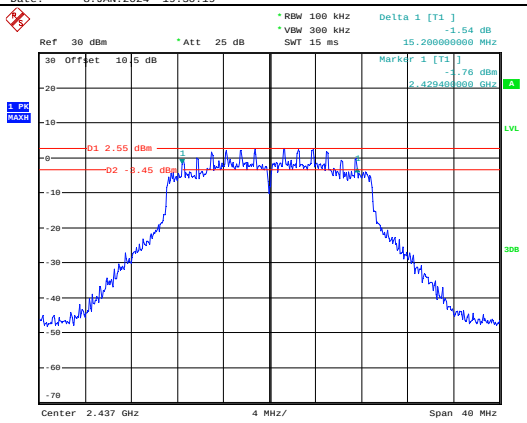
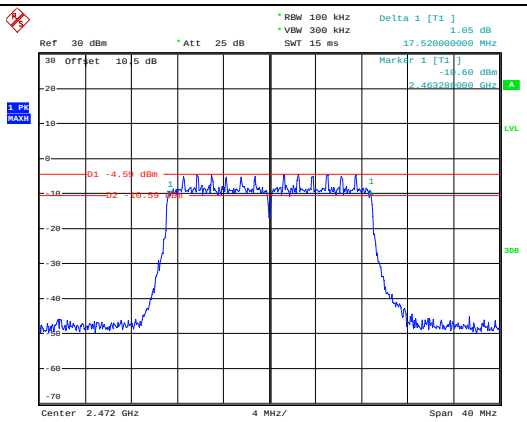
** Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

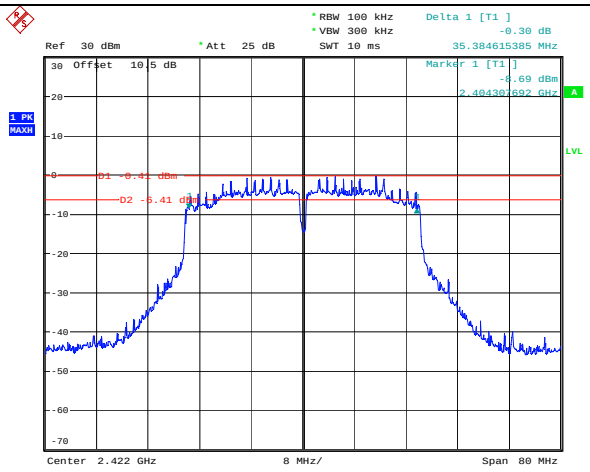
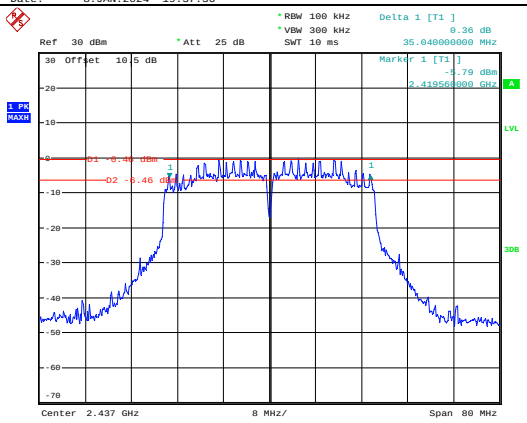
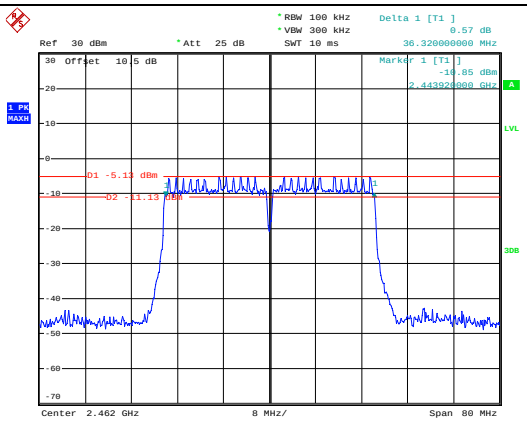
Test Data:

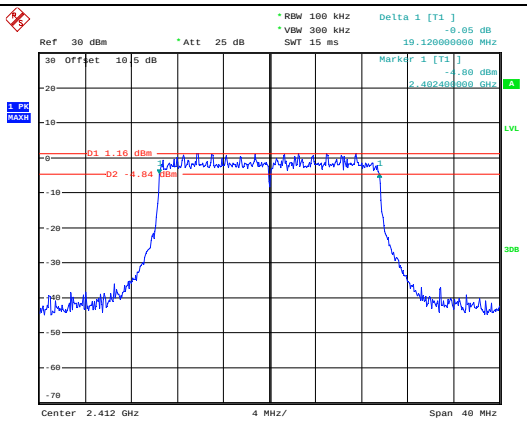
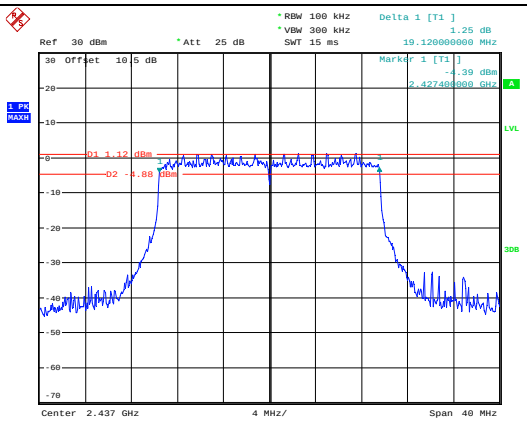
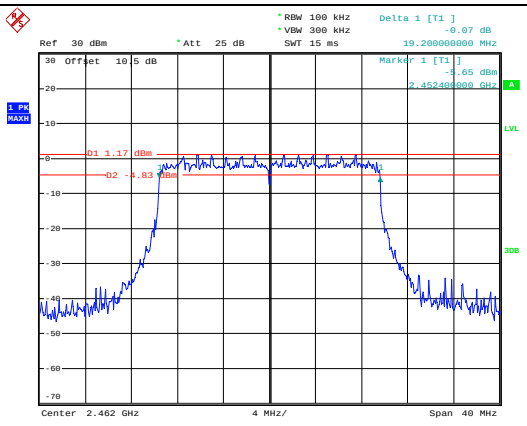
Test Modes	Test Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)
802.11b	2412	10.24	0.5
	2437	9.92	0.5
	2472	10.16	0.5
802.11g	2412	15.20	0.5
	2437	15.20	0.5
	2472	16.40	0.5
802.11n ht20	2412	15.26	0.5
	2437	15.2	0.5
	2472	17.52	0.5
802.11n ht40	2422	35.38	0.5
	2437	35.04	0.5
	2462	36.32	0.5
802.11ax hew20	2412	19.12	0.5
	2437	19.12	0.5
	2472	18.72	0.5
802.11ax hew40	2422	37.92	0.5
	2437	37.76	0.5
	2462	37.44	0.5
Note: Pre-scan all antennas, worst case (Main Antenna (Chain 0)) was reported.			

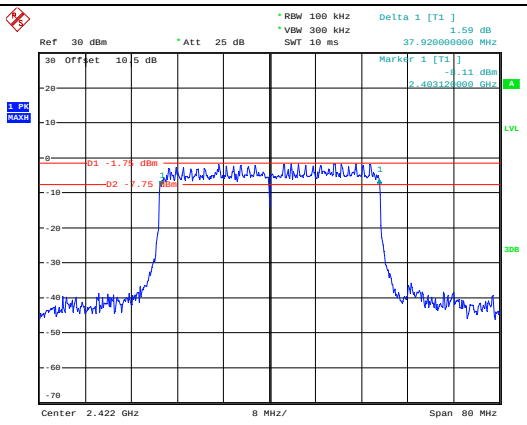
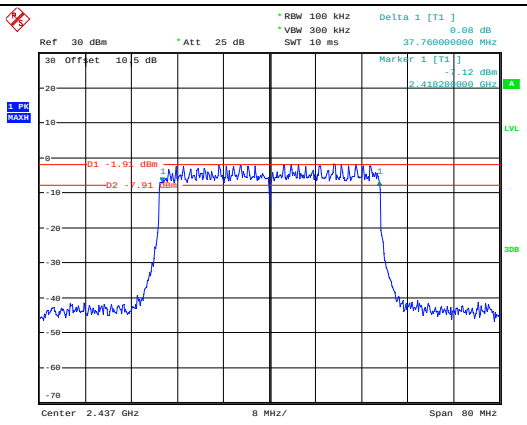
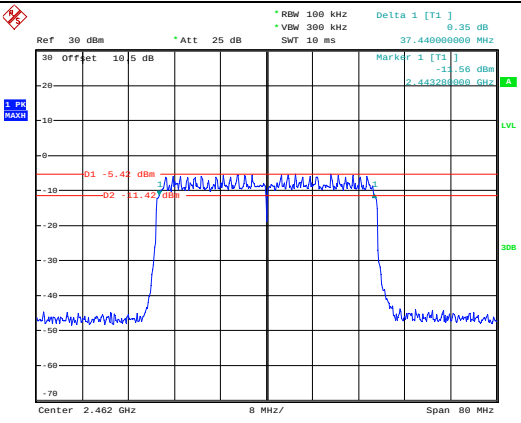
6dB Emission Bandwidth	
802.11b Lowest Channel	 ProjectNo.:CR231061450-RF Tester:Arthur Su Date: 1.NOV.2023 22:07:10
802.11b Middle Channel	 ProjectNo.:CR231061450-RF Tester:Arthur Su Date: 2.FEB.2024 20:25:00
802.11b Highest Channel	 ProjectNo.:CR231061450-RF Tester:Arthur Su Date: 2.FEB.2024 21:42:04

6dB Emission Bandwidth	
802.11g Lowest Channel	
802.11g Middle Channel	
802.11g Highest Channel	

6dB Emission Bandwidth	
802.11n ht20 Lowest Channel	
802.11n ht20 Middle Channel	
802.11n ht20 Highest Channel	

6dB Emission Bandwidth	
802.11n ht40 Lowest Channel	 Comment: ProjectNo.:CR231061450-RF Tester:Arthur Su Date: 8.JAN.2024 19:37:36
802.11n ht40 Middle Channel	 ProjectNo.:CR231061450-RF Tester:Arthur Su Date: 2.FEB.2024 20:36:16
802.11n ht40 Highest Channel	 ProjectNo.:CR231061450-RF Tester:Arthur Su Date: 2.FEB.2024 22:02:21

6dB Emission Bandwidth	
802.11ax hew20 Lowest Channel	
802.11ax hew20 Middle Channel	
802.11ax hew20 Highest Channel	

6dB Emission Bandwidth	
802.11ax hew40 Lowest Channel	
802.11ax hew40 Middle Channel	
802.11ax hew40 Highest Channel	

4.4 99% Occupied Bandwidth

Serial Number:	2CHV-2	Test Date:	2023/11/1~2024/2/2
Test Site:	RF	Test Mode:	Transmitting
Tester:	Arthur Su	Test Result:	N/A

Environmental Conditions:					
Temperature: (℃)	24.5-25.6	Relative Humidity: (%)	45-53	ATM Pressure: (kPa)	101.1-101.4

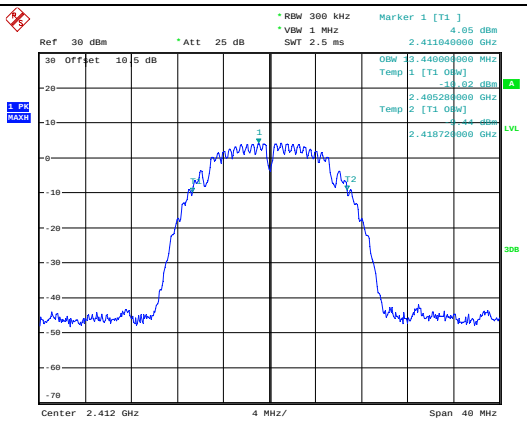
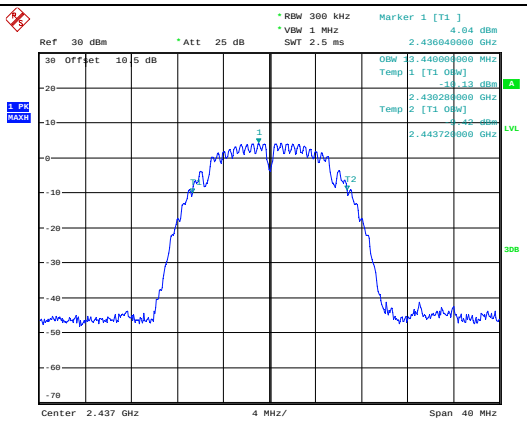
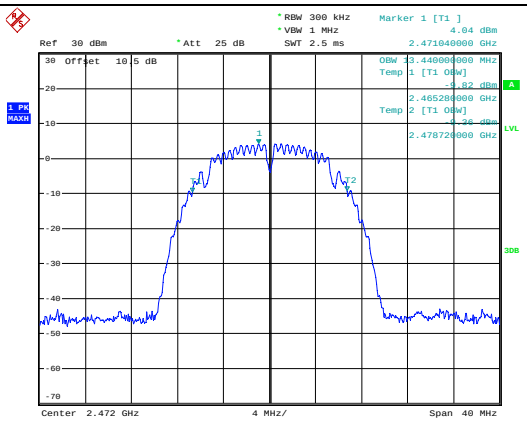
Test Equipment List and Details:

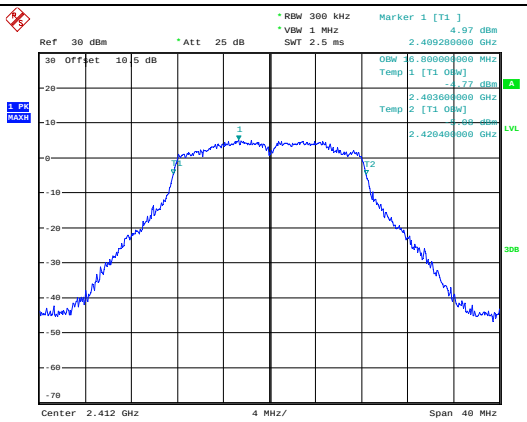
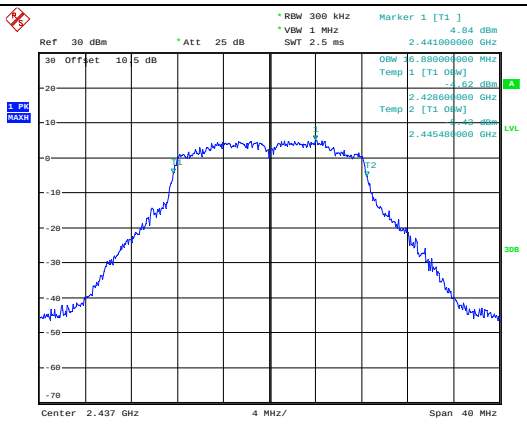
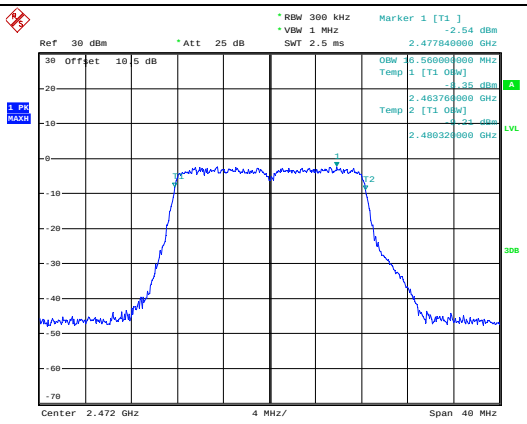
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSU26	200256	2023/3/31	2024/3/30
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A
eastsheep	Coaxial Attenuator	2W-SMA-JK-18G	21060301	Each time	N/A
R&S	Spectrum Analyzer	FSU26	100147	2023/3/31	2024/3/30

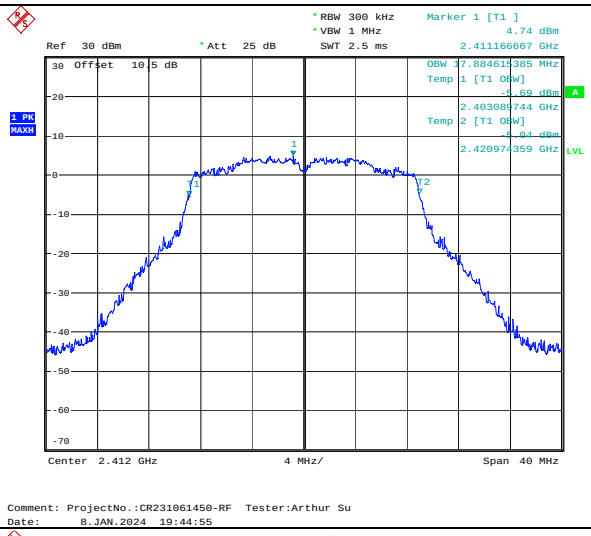
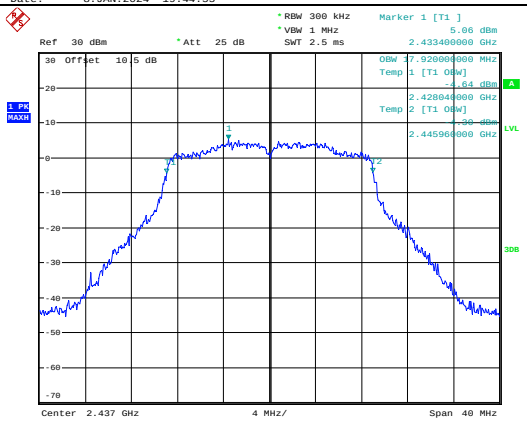
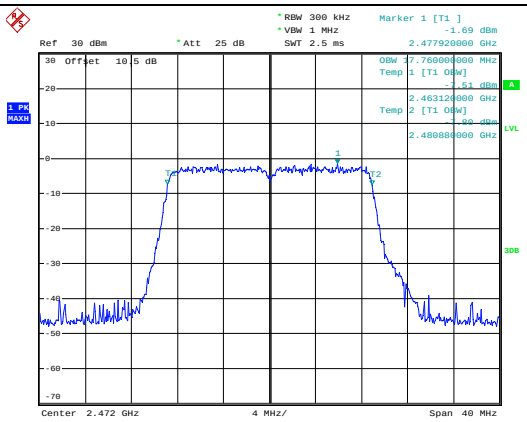
**** Statement of Traceability:*** *China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

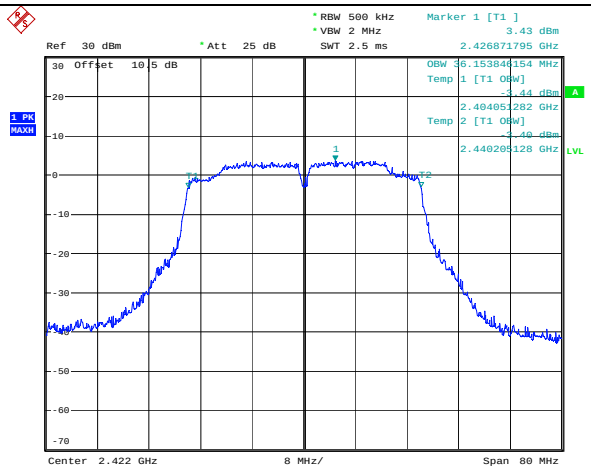
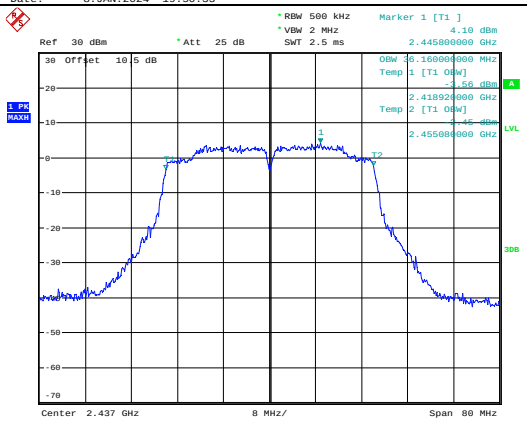
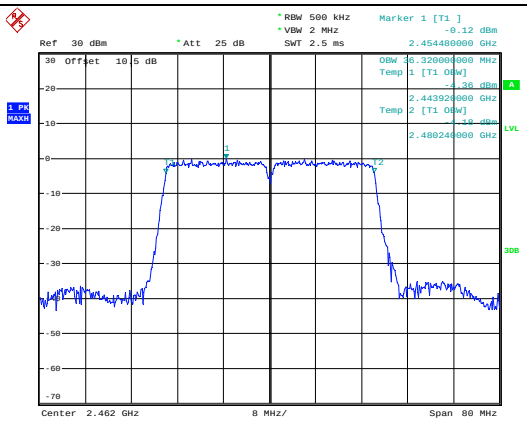
Test Data:

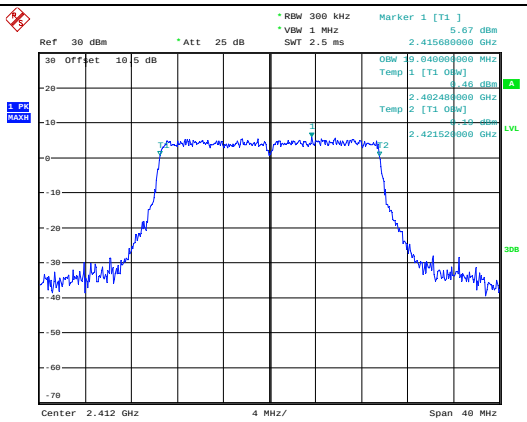
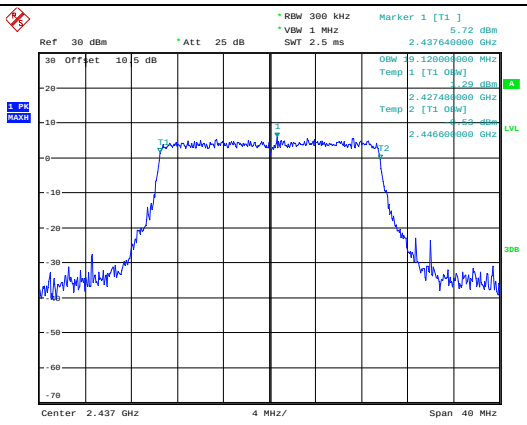
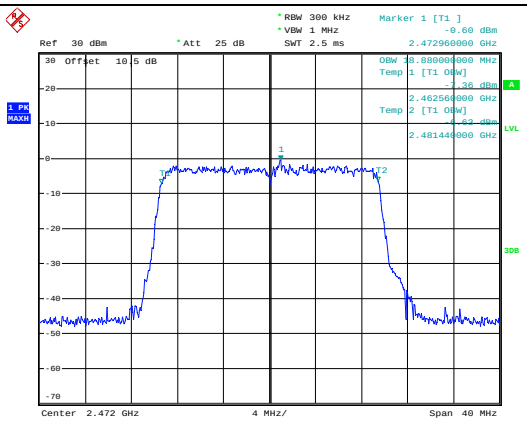
Test Modes	Test Channel	Test Frequency (MHz)	99% Occupied Bandwidth (MHz)
802.11b	Low	2412	13.440
	Middle	2437	13.440
	High	2472	13.440
802.11g	Low	2412	16.800
	Middle	2437	16.880
	High	2472	16.560
802.11n ht20	Low	2412	17.885
	Middle	2437	17.920
	High	2472	17.760
802.11n ht40	Low	2422	36.154
	Middle	2437	36.160
	High	2462	36.320
802.11ax hew20	Low	2412	19.040
	Middle	2437	19.120
	High	2472	18.880
802.11ax hew40	Low	2422	37.920
	Middle	2437	37.920
	High	2462	37.760
Note: Pre-scan all antennas, worst case (Main Antenna (Chain 0)) was reported.			

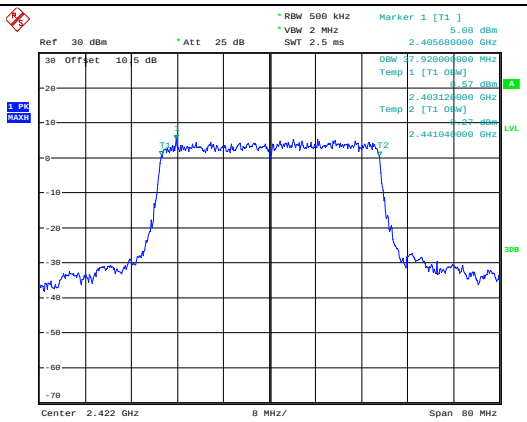
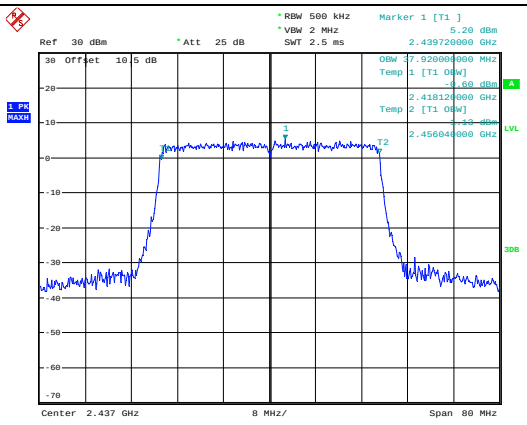
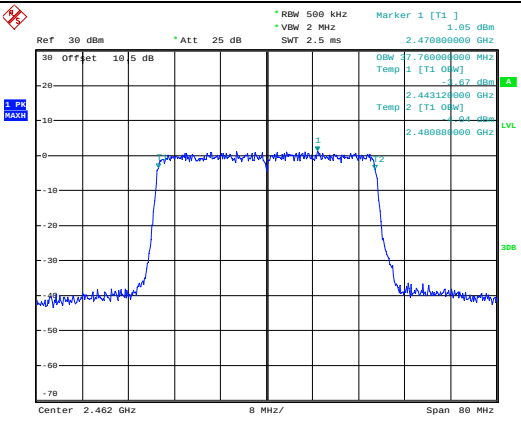
99% Occupied Bandwidth	
802.11b Lowest Channel	 ProjectNo.:CR231061450-RF Tester:Arthur Su Date: 1.NOV.2023 22:57:01
802.11b Middle Channel	 ProjectNo.:CR231061450-RF Tester:Arthur Su Date: 2.FEB.2024 20:25:13
802.11b Highest Channel	 ProjectNo.:CR231061450-RF Tester:Arthur Su Date: 2.FEB.2024 21:42:45

99% Occupied Bandwidth	
802.11g Lowest Channel	 ProjectNo.:CR231061450-RF Tester:Arthur Su Date: 1.NOV.2023 22:56:22
802.11g Middle Channel	 ProjectNo.:CR231061450-RF Tester:Arthur Su Date: 2.FEB.2024 20:28:05
802.11g Highest Channel	 ProjectNo.:CR231061450-RF Tester:Arthur Su Date: 2.FEB.2024 21:50:02

99% Occupied Bandwidth	
802.11n ht20 Lowest Channel	
802.11n ht20 Middle Channel	
802.11n ht20 Highest Channel	

99% Occupied Bandwidth	
802.11n ht40 Lowest Channel	 Comment: ProjectNo.:CR231061450-RF Tester:Arthur Su Date: 8.JAN.2024 19:50:33
802.11n ht40 Middle Channel	 ProjectNo.:CR231061450-RF Tester:Arthur Su Date: 2.FEB.2024 20:36:29
802.11n ht40 Highest Channel	 ProjectNo.:CR231061450-RF Tester:Arthur Su Date: 2.FEB.2024 22:03:15

99% Occupied Bandwidth	
802.11ax hew20 Lowest Channel	 ProjectNo.:CR231061450-RF Tester:Arthur Su Date: 1.NOV.2023 22:51:32
802.11ax hew20 Middle Channel	 ProjectNo.:CR231061450-RF Tester:Arthur Su Date: 2.FEB.2024 21:08:23
802.11ax hew20 Highest Channel	 ProjectNo.:CR231061450-RF Tester:Arthur Su Date: 2.FEB.2024 22:10:39

99% Occupied Bandwidth	
802.11ax hew40 Lowest Channel	 ProjectNo.:CR231061450-RF Tester:Arthur Su Date: 1.NOV.2023 22:46:24
802.11ax hew40 Middle Channel	 ProjectNo.:CR231061450-RF Tester:Arthur Su Date: 2.FEB.2024 21:11:57
802.11ax hew40 Highest Channel	 ProjectNo.:CR231061450-RF Tester:Arthur Su Date: 2.FEB.2024 22:20:31

4.5 Maximum Conducted Output Power

Serial Number:	2CHV-2	Test Date:	2023/11/1-2024/2/2
Test Site:	RF	Test Mode:	Transmitting
Tester:	Arthur Su	Test Result:	Pass

Environmental Conditions:					
Temperature: (℃)	24.5-25.6	Relative Humidity: (%)	45-53	ATM Pressure: (kPa)	101.1-101.4

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A
eastsheep	Coaxial Attenuator	2W-SMA-JK-18G	21060301	Each time	N/A
Anritsu	Power Meter	ML2495A	1106009	2023/8/4	2024/8/3
Anritsu	Pulse Power Sensor	MA2411A	10780	2023/8/4	2024/8/3

** Statement of Traceability: China Certification ICT Co., Ltd (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)
		Chain 0	Chain 1	Total	
802.11b	2412	16.31	16.43	/	30
	2437	17.41	16.49	/	30
	2462	16.20	16.33	/	30
	2467	16.31	16.27	/	30
	2472	16.17	16.28	/	30
802.11g	2412	21.08	21.38	/	30
	2437	21.61	21.95	/	30
	2462	20.95	21.59	/	30
	2467	20.27	20.53	/	30
	2472	13.55	16.35	/	30
802.11n ht20	2412	21.52	21.63	24.59	30
	2437	22.39	22.85	25.64	30
	2462	21.92	21.67	24.81	30
	2467	21.76	20.67	24.26	30
	2472	15.36	15.32	18.35	30
802.11n ht40	2422	21.83	21.96	24.91	30
	2437	22.58	22.96	25.78	30
	2457	20.16	20.21	23.20	30
	2462	19.01	18.60	21.82	30
802.11ax hew20	2412	22.41	21.91	25.18	30
	2437	22.73	22.42	25.59	30
	2462	22.23	22.35	25.30	30
	2467	21.85	21.74	24.81	30
	2472	15.41	16.07	18.76	30
802.11ax hew40	2422	22.27	22.25	25.27	30
	2437	21.79	21.43	24.62	30
	2457	19.53	19.46	22.51	30
	2462	17.69	17.70	20.71	30

1. The total Peak output power = 10*log [(10^(Chain 0 Peak output power/10)) + (10^(Chain 1 Peak output power /10))]2. The device employed Cyclic Delay Diversity (CDD) for 802.11 MIMO transmitting, per KDB 662911 D01 Multiple Transmitter Output v02r01, for power measurements on IEEE 802.11 devices:Array Gain = 0 dB (i.e., no array gain) for NANT ≤ 4Directional gain = GANT MAX + Array Gain =2.57dBi < 6 dBiSo, the maximum output power limit does not need to be reduced.

Test Modes	Test Frequency (MHz)	Maximum Conducted Average Output Power (dBm)			Limit (dBm)
		Chain 0	Chain 1	Total	
802.11b	2412	13.84	14.08	/	30
	2437	14.68	13.97	/	30
	2467	13.42	13.68	/	30
	2472	13.53	13.64	/	30
802.11g	2412	13.21	13.58	/	30
	2437	13.62	13.73	/	30
	2467	12.54	12.39	/	30
	2472	5.38	8.42	/	30
802.11n ht20	2412	13.66	12.91	16.31	30
	2437	14.39	14.97	17.70	30
	2467	13.68	12.56	16.17	30
	2472	7.39	7.30	10.36	30
802.11n ht40	2422	13.62	13.34	16.49	30
	2437	14.05	14.52	17.30	30
	2457	12.03	12.16	15.11	30
	2462	10.79	10.02	13.43	30
802.11ax hew20	2412	14.78	14.01	17.42	30
	2437	14.95	14.60	17.79	30
	2467	14.07	14.08	17.09	30
	2472	7.61	8.16	10.90	30
802.11ax hew40	2422	14.70	14.49	17.61	30
	2437	13.88	13.69	16.80	30
	2457	11.56	11.62	14.60	30
	2462	9.93	9.99	12.97	30

1. The total Peak output power = 10*log [(10^(Chain 0 Peak output power/10)) + (10^(Chain 1 Peak output power /10))]
2. The device employed Cyclic Delay Diversity (CDD) for 802.11 MIMO transmitting, per KDB 662911 D01 Multiple Transmitter Output v02r01, for power measurements on IEEE 802.11 devices:
Array Gain = 0 dB (i.e., no array gain) for NANT $\leqslant$ 4
Directional gain = GANT MAX + Array Gain =2.57dBi < 6 dBi
So, the maximum output power limit does not need to be reduced.

4.6 Maximum Power Spectral Density

Serial Number:	2CHV-2	Test Date:	2023/11/1-2024/2/2
Test Site:	RF	Test Mode:	Transmitting
Tester:	Arthur Su	Test Result:	Pass

Environmental Conditions:					
Temperature: (℃)	24.5-25.6	Relative Humidity: (%)	45-53	ATM Pressure: (kPa)	101.1-101.4

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSU26	200256	2023/3/31	2024/3/30
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A
eastsheep	Coaxial Attenuator	2W-SMA-JK-18G	21060301	Each time	N/A
R&S	Spectrum Analyzer	FSU26	100147	2023/3/31	2024/3/30

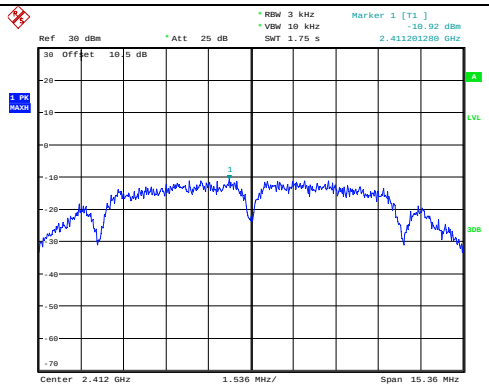
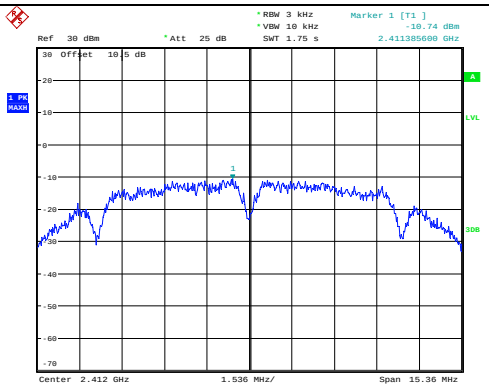
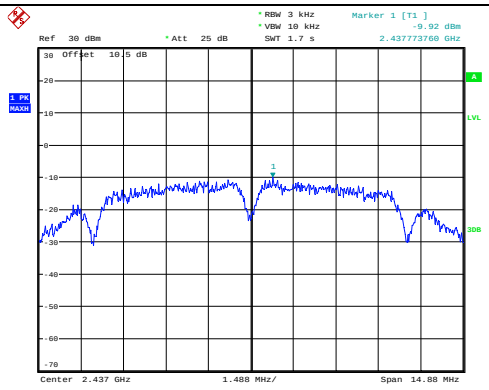
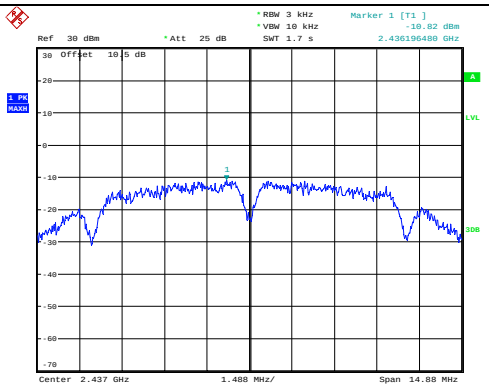
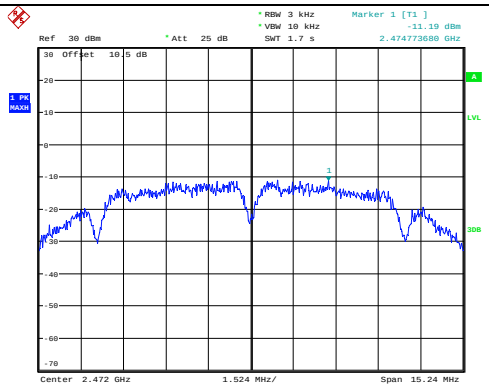
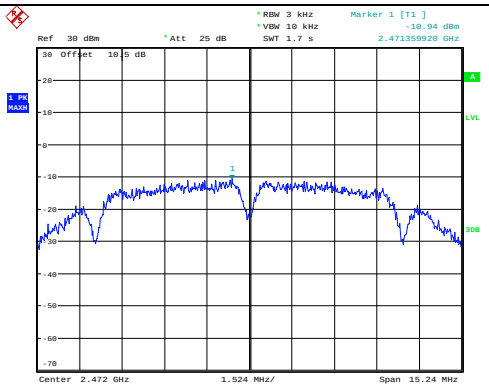
** Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

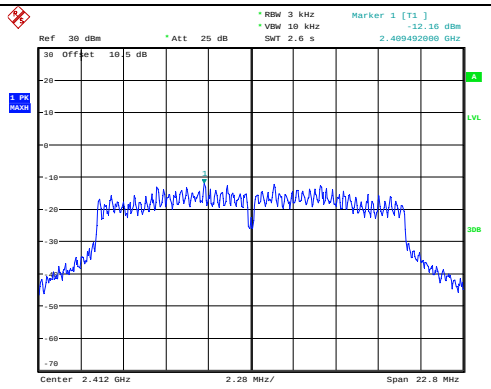
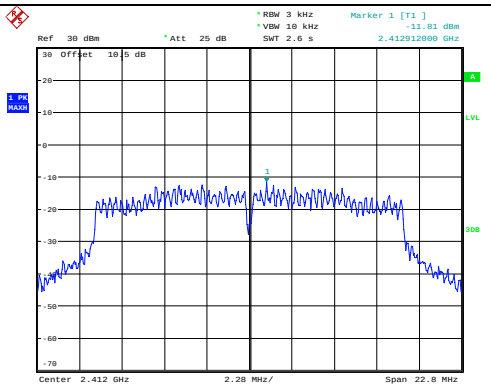
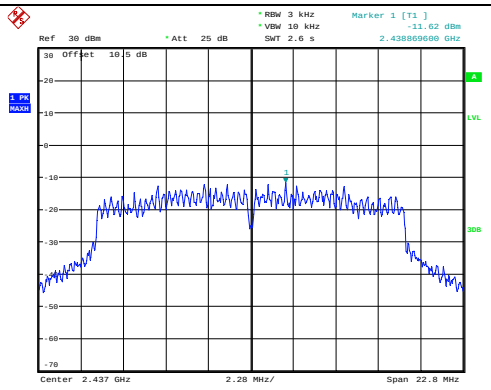
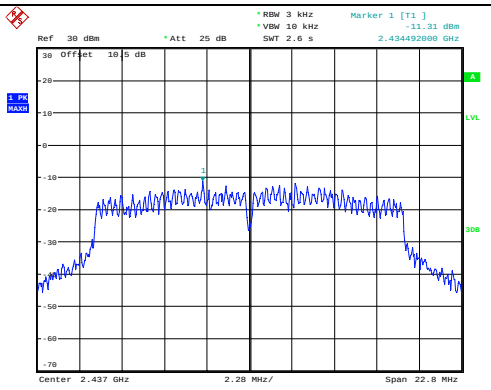
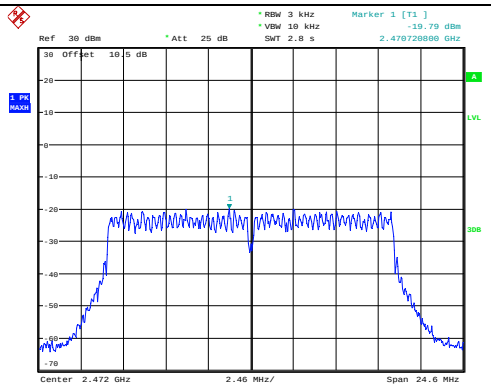
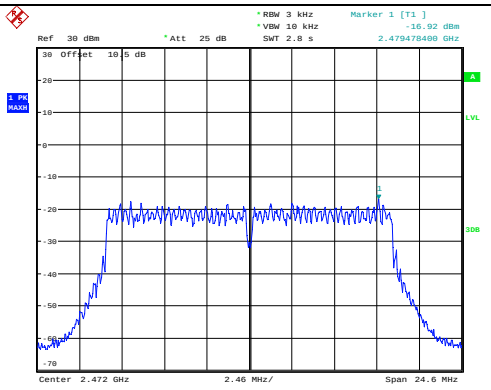
Test Data:

Test Modes	Test Frequency (MHz)	Maximum Power Spectral Density (dBm/3kHz)			Limit (dBm/3kHz)
		Chain 0	Chain 1	Total	
802.11b	2412	-10.92	-10.74	/	8.00
	2437	-9.92	-10.82	/	8.00
	2472	-11.19	-10.94	/	8.00
802.11g	2412	-12.16	-11.81	/	8.00
	2437	-11.62	-11.31	/	8.00
	2472	-19.79	-16.92	/	8.00
802.11n ht20	2412	-12.64	-11.86	-9.22	8.00
	2437	-11.70	-10.53	-8.07	8.00
	2472	-18.66	-18.79	-15.71	8.00
802.11n ht40	2422	-15.48	-16.06	-12.75	8.00
	2437	-15.04	-14.44	-11.72	8.00
	2462	-18.59	-19.10	-15.83	8.00
802.11ax hew20	2412	-13.61	-14.05	-10.81	8.00
	2437	-13.40	-13.68	-10.53	8.00
	2472	-20.67	-20.01	-17.32	8.00
802.11ax hew40	2422	-16.19	-16.04	-13.10	8.00
	2437	-16.38	-16.69	-13.52	8.00
	2462	-20.42	-20.45	-17.42	8.00

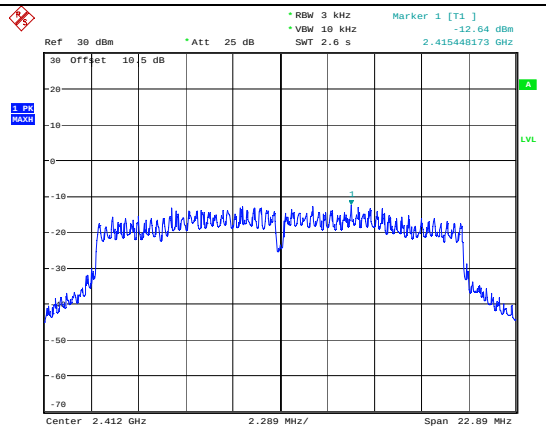
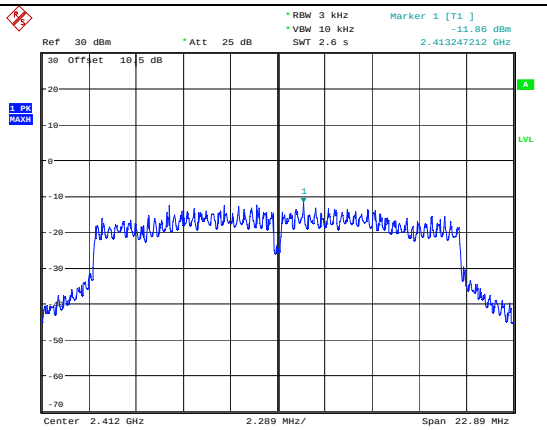
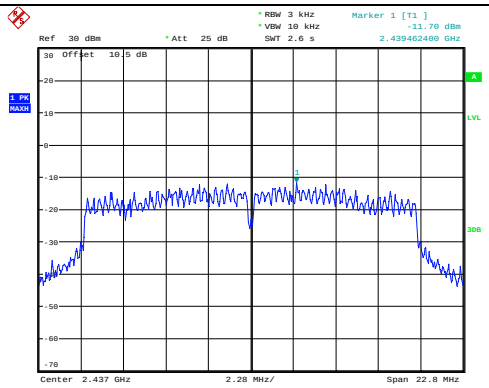
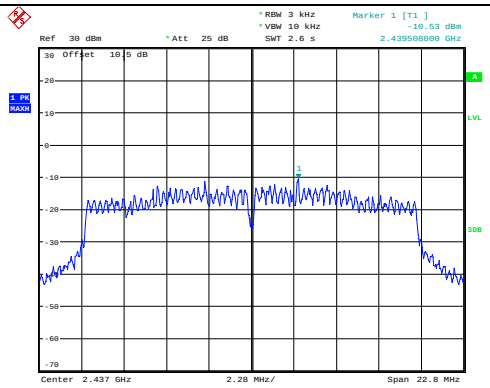
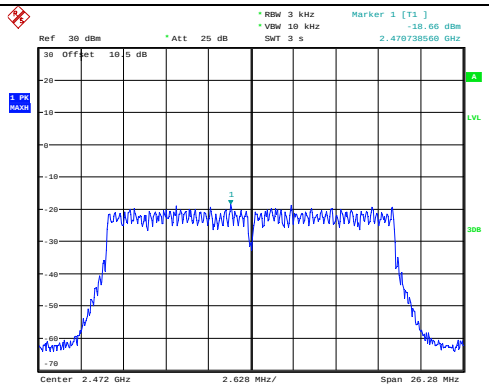
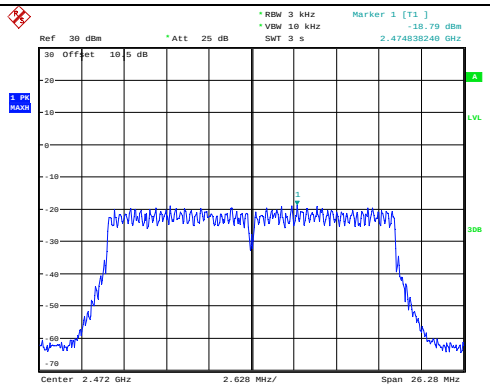
Note:
1. The total Power Spectral Density = 10*log [(10^(Chain 0 Power Spectral Density /10)) + (10^(Chain 1 Power Spectral Density /10))]
2. The device employed Cyclic Delay Diversity (CDD) for 802.11 MIMO transmitting, per KDB 662911 D01 Multiple Transmitter Output v02r01, for power spectral density (PSD) measurements on IEEE 802.11 devices, the Array Gain = 10 log (NANT/NSS) dB;
So, the Directional gain = GANT MAX + 10 log (NANT/NSS) = 2.57 + 10 log (2/1) = 5.57dBi < 6 dBi.
So, the power spectral density (PSD) limit does not need to be reduced.

Test Plots for Maximum Power Spectral Density:

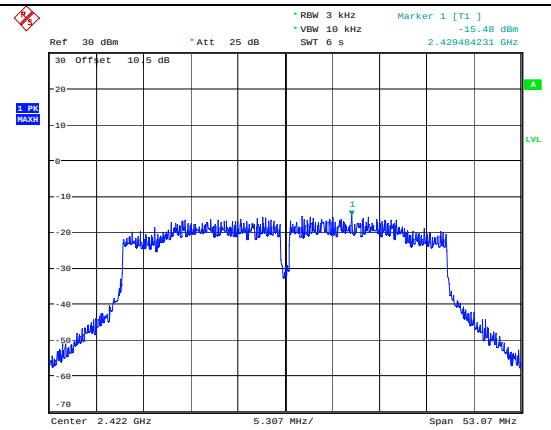
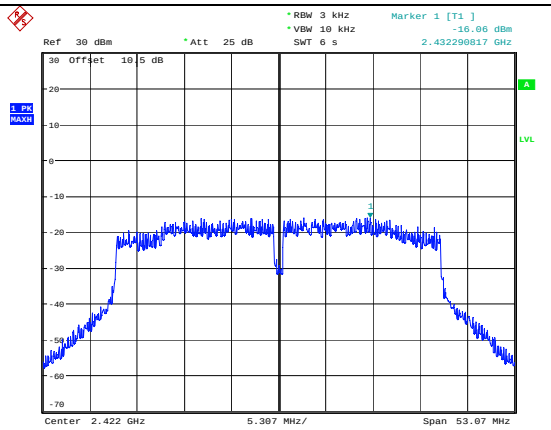
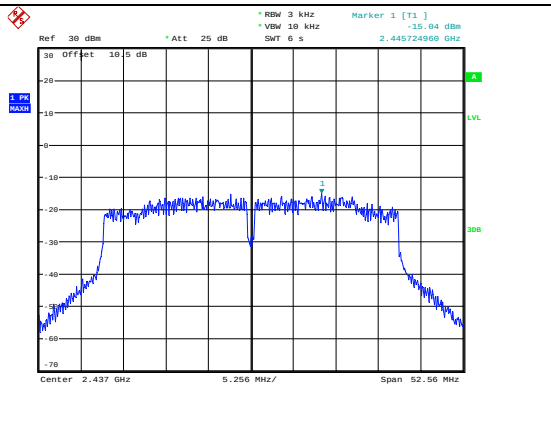
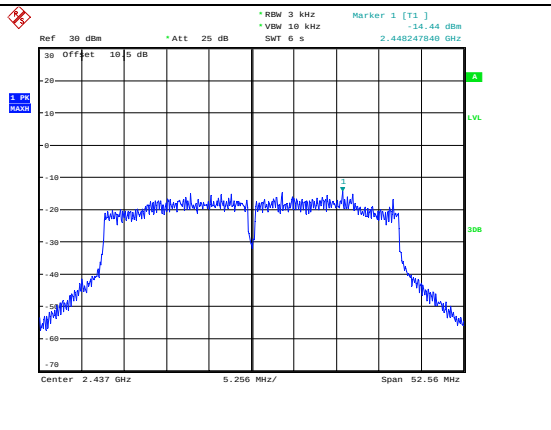
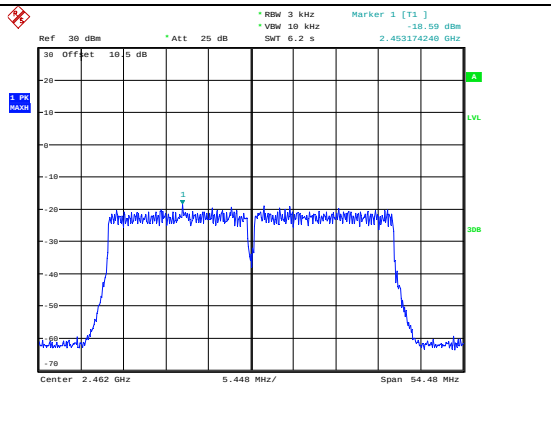
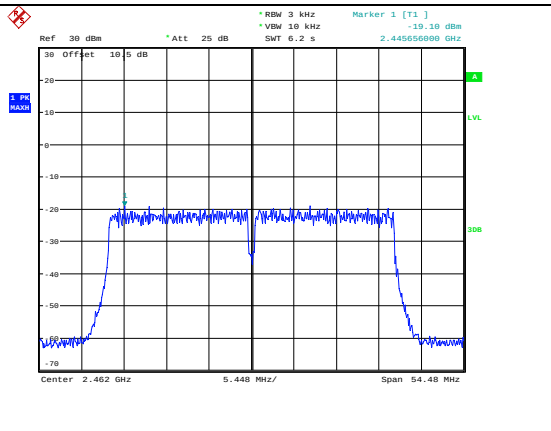
Maximum Power Spectral Density	
Chain 0	**Chain 1**
802.11b Lowest Channel	
 ProjectNo.:CR231061450-RF Tester:Arthur Su Date: 1.NOV.2023 22:07:47	 ProjectNo.:CR231061450-RF Tester:Arthur Su Date: 1.NOV.2023 23:54:15
802.11b Middle Channel	
 ProjectNo.:CR231061450-RF Tester:Arthur Su Date: 2.FEB.2024 20:25:35	 ProjectNo.:CR231061450-RF Tester:Arthur Su Date: 2.FEB.2024 20:56:16
802.11b Highest Channel	
 ProjectNo.:CR231061450-RF Tester:Arthur Su Date: 2.FEB.2024 21:43:03	 ProjectNo.:CR231061450-RF Tester:Arthur Su Date: 2.FEB.2024 22:31:47

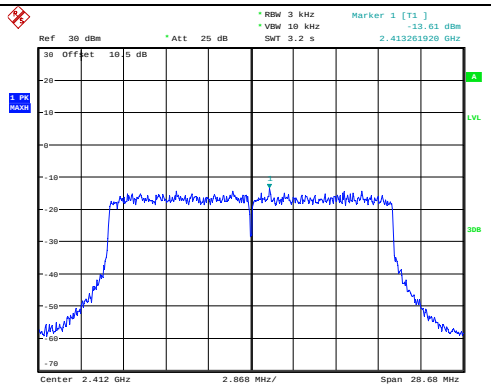
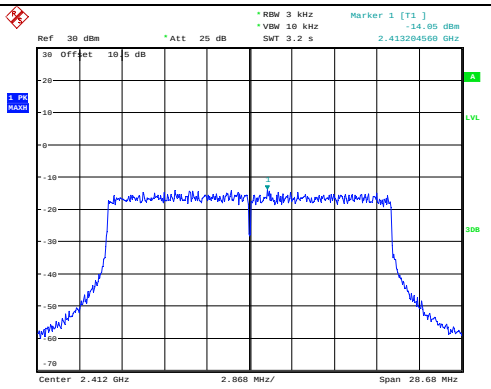
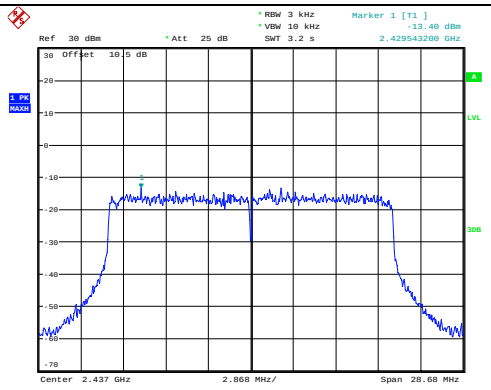
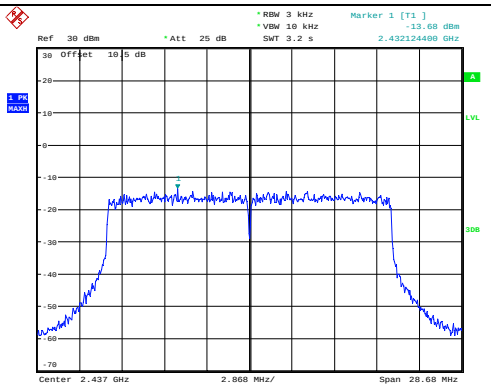
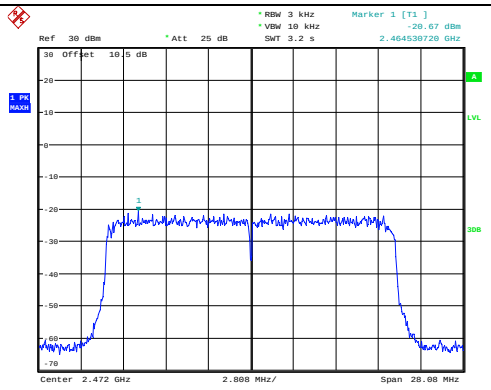
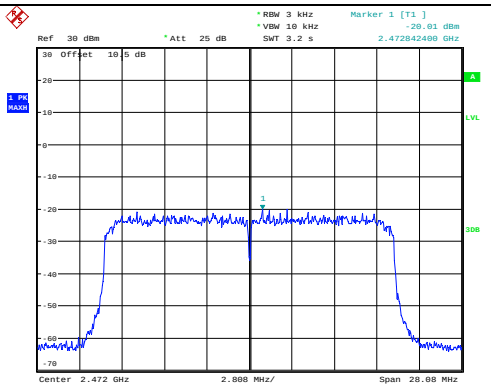
Maximum Power Spectral Density	
Chain 0	**Chain 1**
802.11g Lowest Channel	
 ProjectNo.:CR231061450-RF Tester:Arthur Su Date: 1.NOV.2023 22:18:20	 ProjectNo.:CR231061450-RF Tester:Arthur Su Date: 1.NOV.2023 23:57:11
802.11g Middle Channel	
 ProjectNo.:CR231061450-RF Tester:Arthur Su Date: 2.FEB.2024 20:28:37	 ProjectNo.:CR231061450-RF Tester:Arthur Su Date: 2.FEB.2024 20:55:25
802.11g Highest Channel	
 ProjectNo.:CR231061450-RF Tester:Arthur Su Date: 2.FEB.2024 21:50:44	 ProjectNo.:CR231061450-RF Tester:Arthur Su Date: 2.FEB.2024 22:34:21

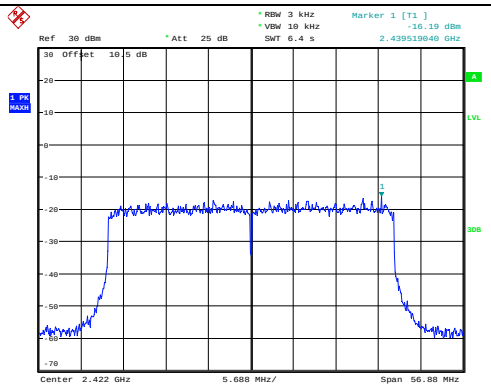
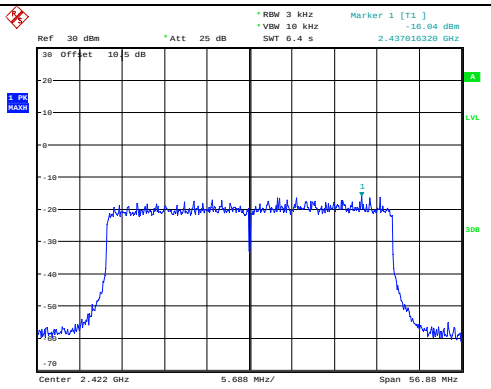
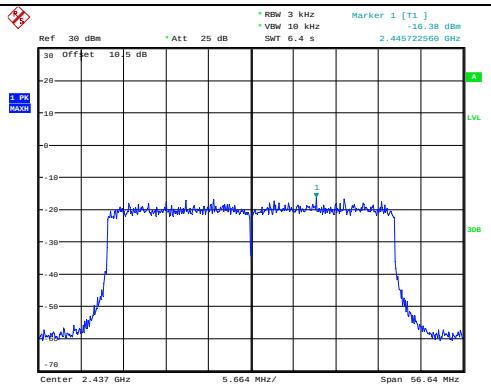
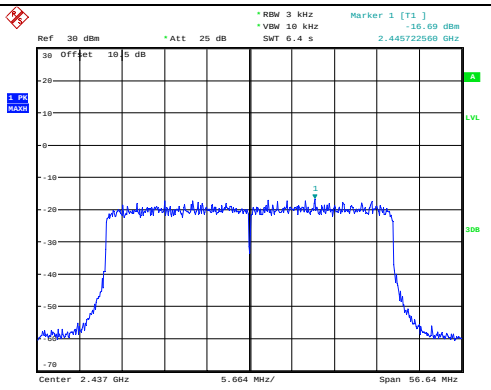
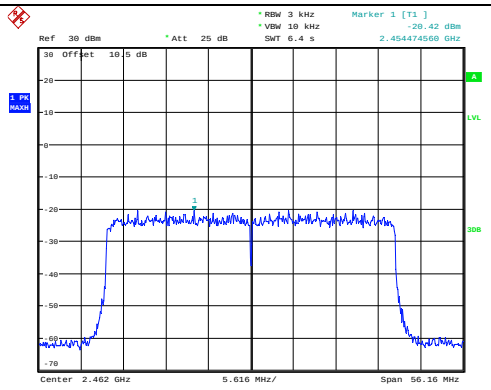
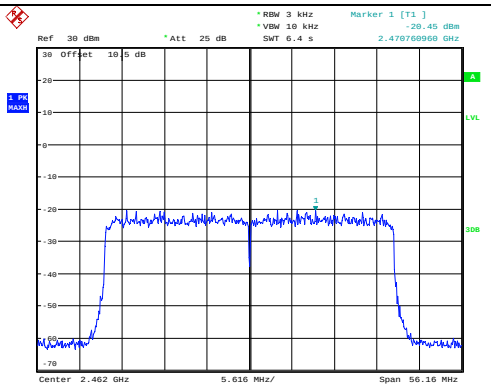
Maximum Power Spectral Density

Chain 0	Chain 1
802.11n ht20 Lowest Channel	
 Comment: ProjectNo.:CR231061450-RF Tester:Arthur Su Date: 8.JAN.2024 19:45:30	 Comment: ProjectNo.:CR231061450-RF Tester:Arthur Su Date: 8.JAN.2024 20:08:14
802.11n ht20 Middle Channel	
 ProjectNo.:CR231061450-RF Tester:Arthur Su Date: 2.FEB.2024 20:32:39	 ProjectNo.:CR231061450-RF Tester:Arthur Su Date: 2.FEB.2024 20:51:11
802.11n ht20 Highest Channel	
 ProjectNo.:CR231061450-RF Tester:Arthur Su Date: 2.FEB.2024 21:59:43	 ProjectNo.:CR231061450-RF Tester:Arthur Su Date: 2.FEB.2024 22:38:02

Maximum Power Spectral Density

Chain 0	Chain 1
802.11n ht40 Lowest Channel	
	
802.11n ht40 Middle Channel	
	
802.11n ht40 Highest Channel	
	

Maximum Power Spectral Density	
Chain 0	**Chain 1**
802.11ax hew20 Lowest Channel	
 ProjectNo.:CR231061450-RF Tester:Arthur Su Date: 1.NOV.2023 22:26:52	 ProjectNo.:CR231061450-RF Tester:Arthur Su Date: 1.NOV.2023 23:40:41
802.11ax hew20 Middle Channel	
 ProjectNo.:CR231061450-RF Tester:Arthur Su Date: 2.FEB.2024 21:09:01	 ProjectNo.:CR231061450-RF Tester:Arthur Su Date: 2.FEB.2024 21:20:11
802.11ax hew20 Highest Channel	
 ProjectNo.:CR231061450-RF Tester:Arthur Su Date: 2.FEB.2024 22:13:46	 ProjectNo.:CR231061450-RF Tester:Arthur Su Date: 2.FEB.2024 22:44:52

Maximum Power Spectral Density	
Chain 0	**Chain 1**
802.11ax hew40 Lowest Channel	
 ProjectNo.:CR231061450-RF Tester:Arthur Su Date: 1.NOV.2023 22:35:35	 ProjectNo.:CR231061450-RF Tester:Arthur Su Date: 1.NOV.2023 23:44:58
802.11ax hew40 Middle Channel	
 ProjectNo.:CR231061450-RF Tester:Arthur Su Date: 2.FEB.2024 21:13:06	 ProjectNo.:CR231061450-RF Tester:Arthur Su Date: 2.FEB.2024 21:18:48
802.11ax hew40 Highest Channel	
 ProjectNo.:CR231061450-RF Tester:Arthur Su Date: 2.FEB.2024 22:21:40	 ProjectNo.:CR231061450-RF Tester:Arthur Su Date: 2.FEB.2024 22:46:58

4.7 100 kHz Bandwidth of Frequency Band Edge

Serial Number:	2CHV-2	Test Date:	2023/11/1-2024/2/6
Test Site:	RF	Test Mode:	Transmitting
Tester:	Arthur Su	Test Result:	Pass

Environmental Conditions:					
Temperature: (℃)	24.1-25.8	Relative Humidity: (%)	45-54	ATM Pressure: (kPa)	101.1-101.4

Test Equipment List and Details:

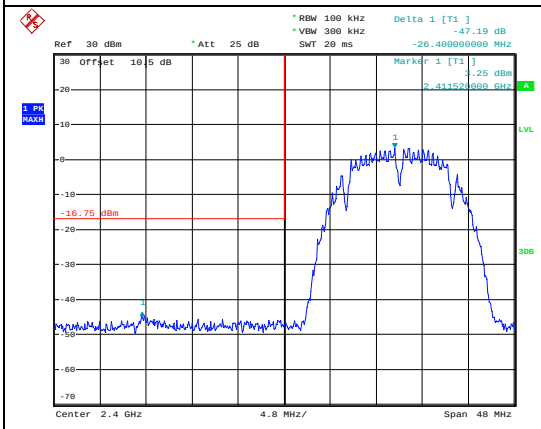
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSU26	200256	2023/3/31	2024/3/30
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A
eastsheep	Coaxial Attenuator	2W-SMA-JK-18G	21060301	Each time	N/A
R&S	Spectrum Analyzer	FSU26	100147	2023/3/31	2024/3/30

** Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

Test Data:

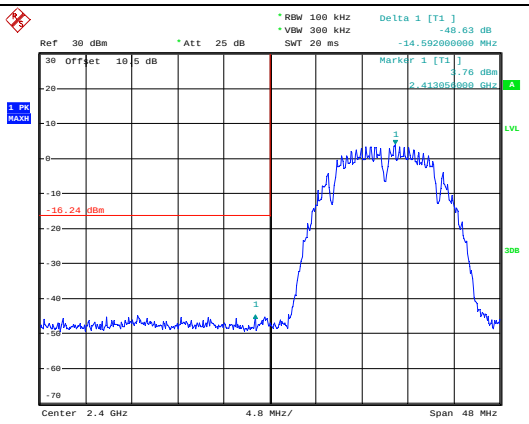
100 kHz Bandwidth of Frequency Band Edge

802.11b_Chain 0_Lowest Band edge



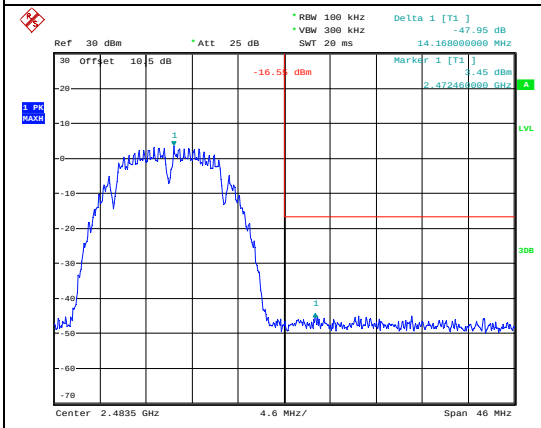
ProjectNo.:CR231061450-RF Tester:Arthur Su
Date: 1.NOV.2023 22:08:00

802.11b_Chain 1_Lowest Band edge



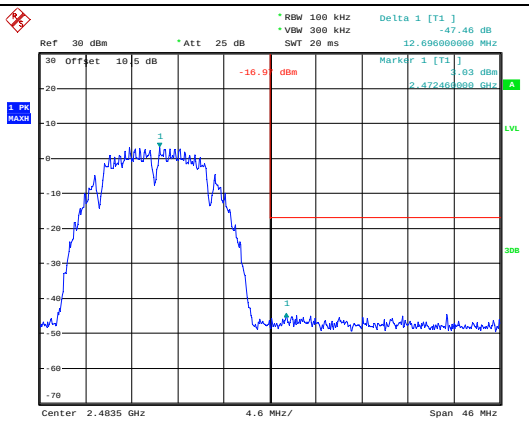
ProjectNo.:CR231061450-RF Tester:Arthur Su
Date: 1.NOV.2023 23:54:28

802.11b_Chain 0_Highest Band edge

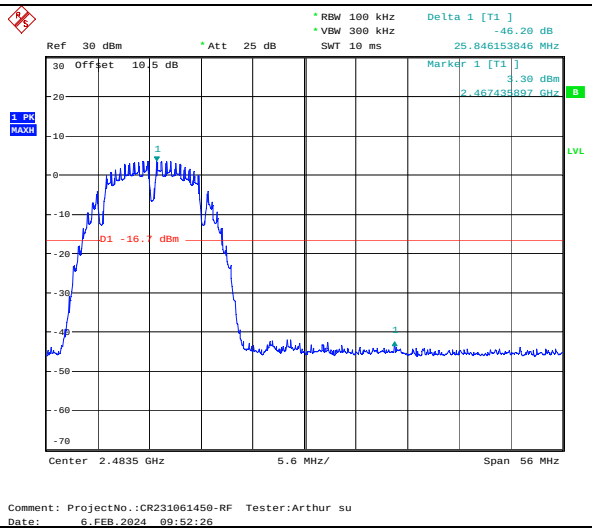
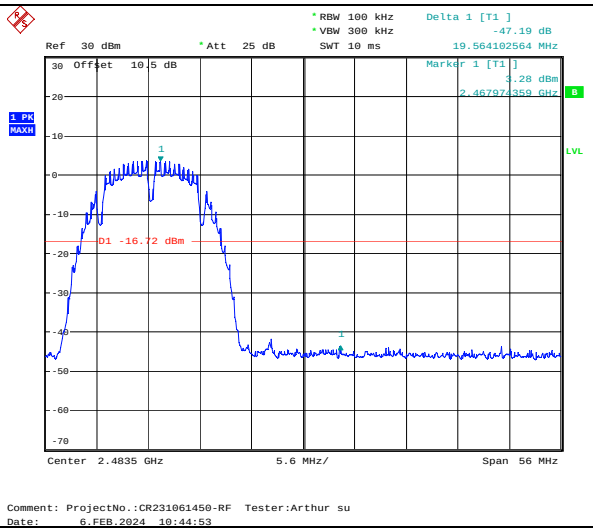


ProjectNo.:CR231061450-RF Tester:Arthur Su
Date: 2.FEB.2024 21:43:16

802.11b_Chain 1_Highest Band edge

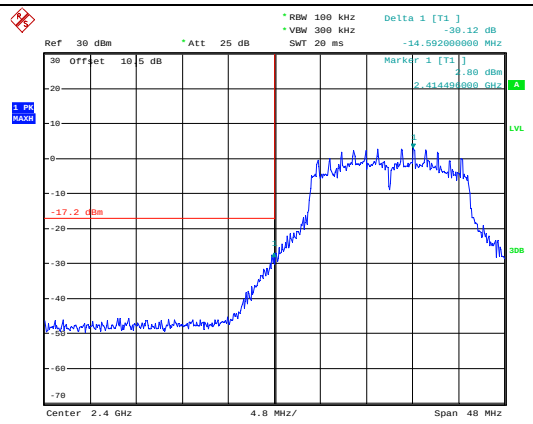


ProjectNo.:CR231061450-RF Tester:Arthur Su
Date: 2.FEB.2024 22:32:00

802.11b_Chain 0_2467MHz Band edge	802.11b_Chain 1_2467MHz Band edge
	

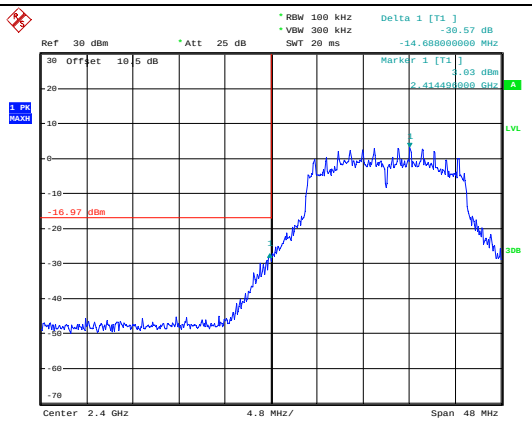
100 kHz Bandwidth of Frequency Band Edge

802.11g_Chain 0_Lowest Band edge



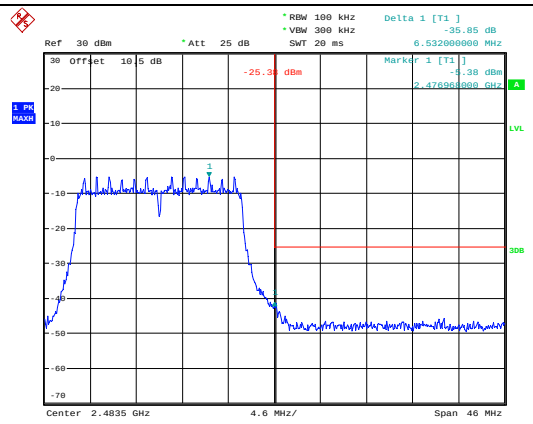
ProjectNo.:CR231061450-RF Tester:Arthur Su
Date: 1.NOV.2023 22:18:33

802.11g_Chain 1_ Lowest Band edge



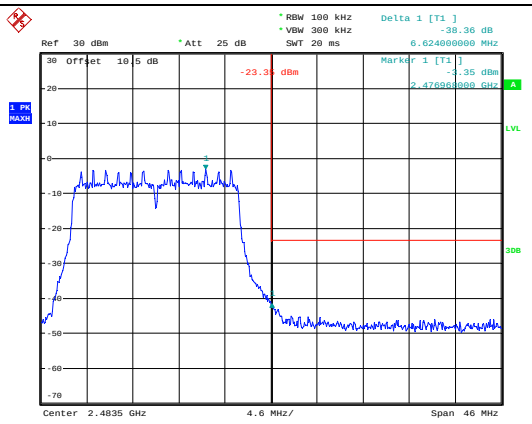
ProjectNo.:CR231061450-RF Tester:Arthur Su
Date: 1.NOV.2023 23:57:24

802.11g_Chain 0_Highest Band edge

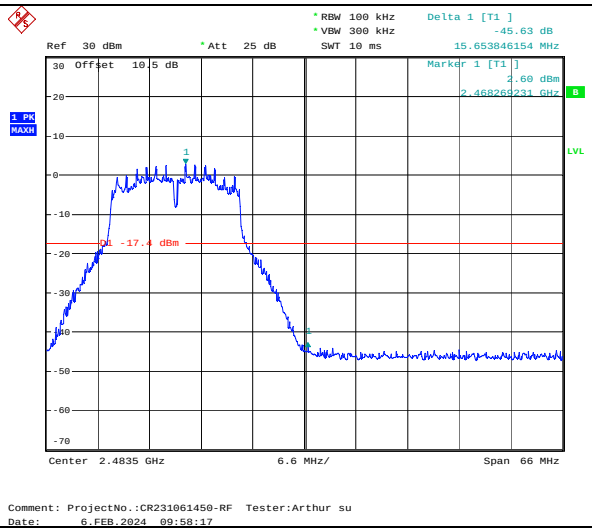
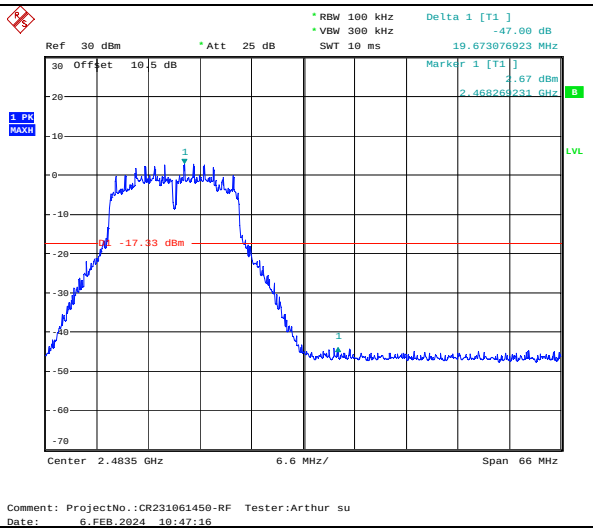


ProjectNo.:CR231061450-RF Tester:Arthur Su
Date: 2.FEB.2024 21:50:57

802.11g_Chain 1_Highest Band edge

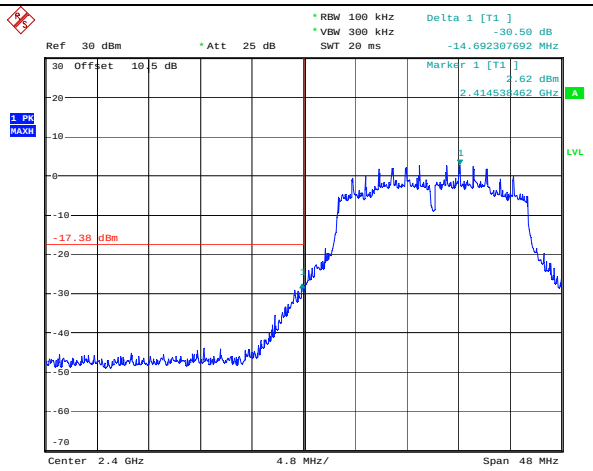


ProjectNo.:CR231061450-RF Tester:Arthur Su
Date: 2.FEB.2024 22:34:34

802.11g_Chain 0_2467MHz Band edge	802.11g_Chain 1_2467MHz Band edge
	

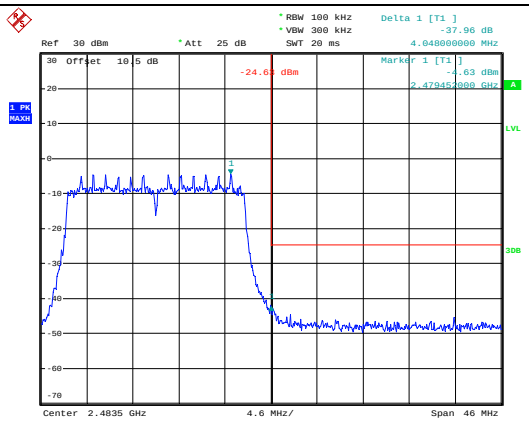
100 kHz Bandwidth of Frequency Band Edge

802.11n ht20_Chain 0_Lowest Band edge



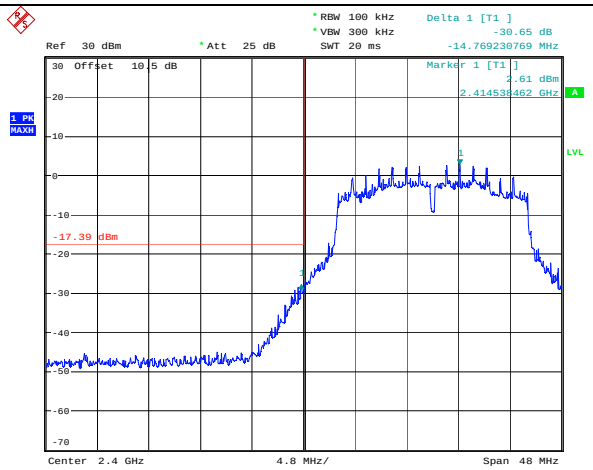
Comment: ProjectNo.:CR231061450-RF Tester:Arthur Su
Date: 8.JAN.2024 19:45:53

802.11n ht20_Chain 1_Lowest Band edge



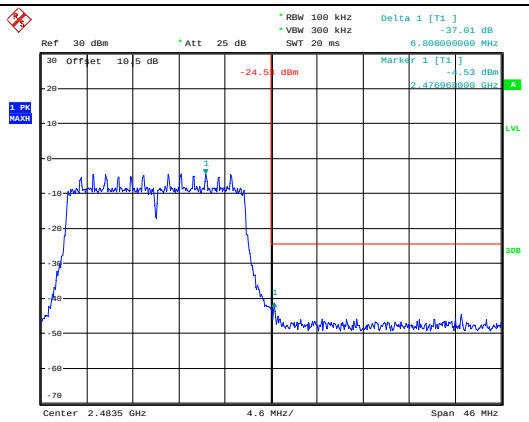
ProjectNo.:CR231061450-RF Tester:Arthur Su
Date: 2.FEB.2024 21:59:56

802.11n ht20_Chain 0_Highest Band edge

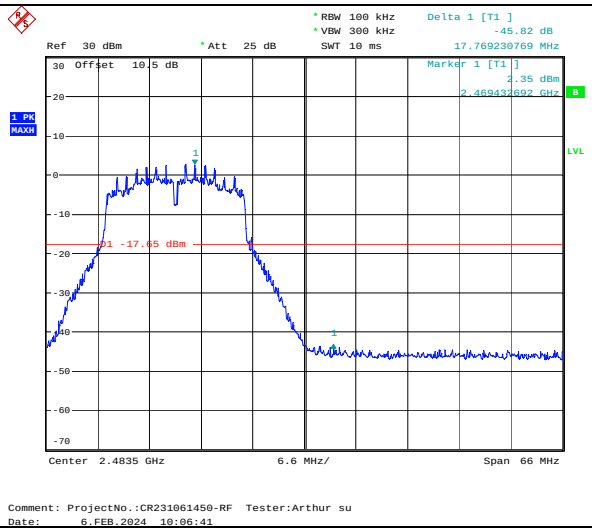
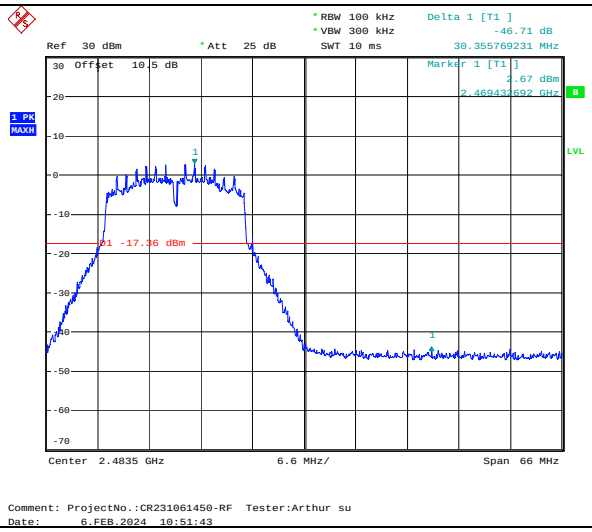


Comment: ProjectNo.:CR231061450-RF Tester:Arthur Su
Date: 8.JAN.2024 20:08:30

802.11n ht20_Chain 1_Highest Band edge

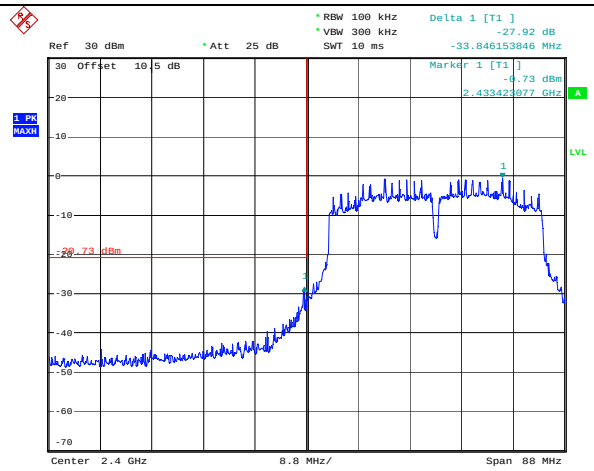


ProjectNo.:CR231061450-RF Tester:Arthur Su
Date: 2.FEB.2024 22:38:15

802.11n ht20_Chain 0_2467MHz Band edge	802.11n ht20_Chain 0_2467MHz Band edge
	

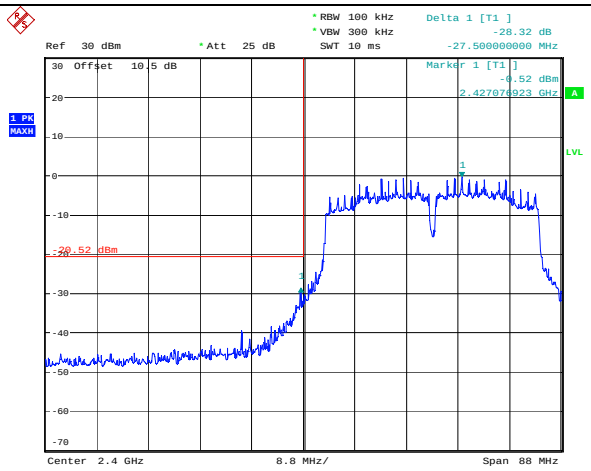
100 kHz Bandwidth of Frequency Band Edge

802.11n ht40_Chain 0_Lowest Band edge



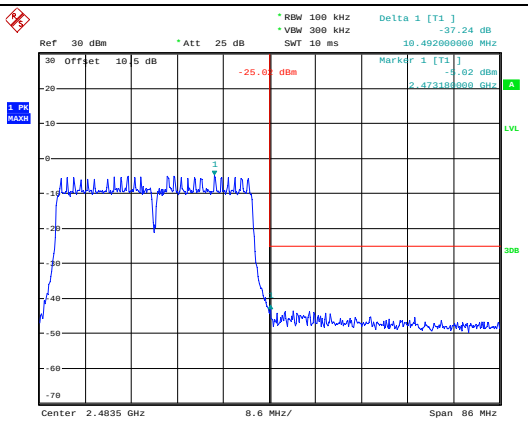
Comment: ProjectNo.:CR231061450-RF Tester:Arthur Su
Date: 8.JAN.2024 19:52:10

802.11n ht40_Chain 1_Lowest Band edge



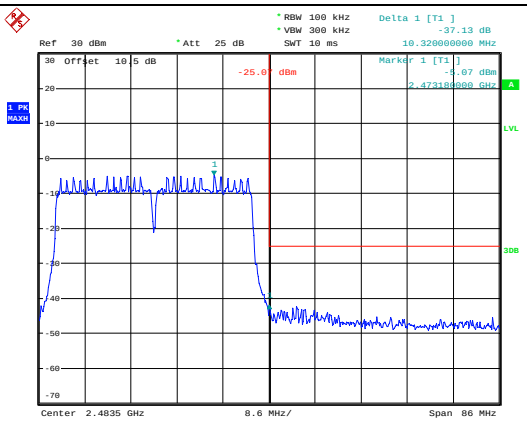
Comment: ProjectNo.:CR231061450-RF Tester:Arthur Su
Date: 8.JAN.2024 20:13:48

802.11n ht40_Chain 0_Highest Band edge

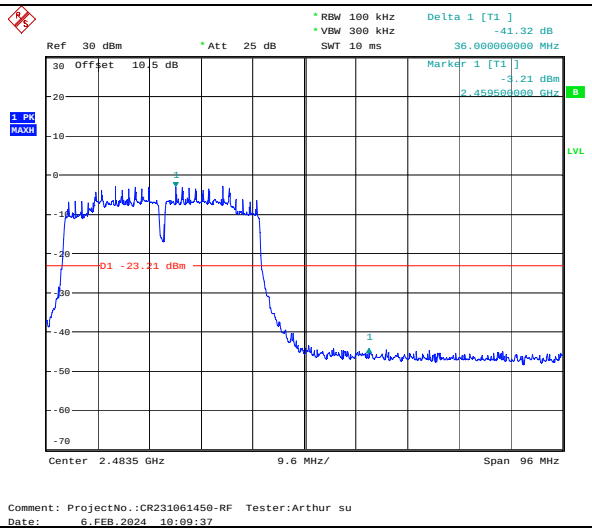
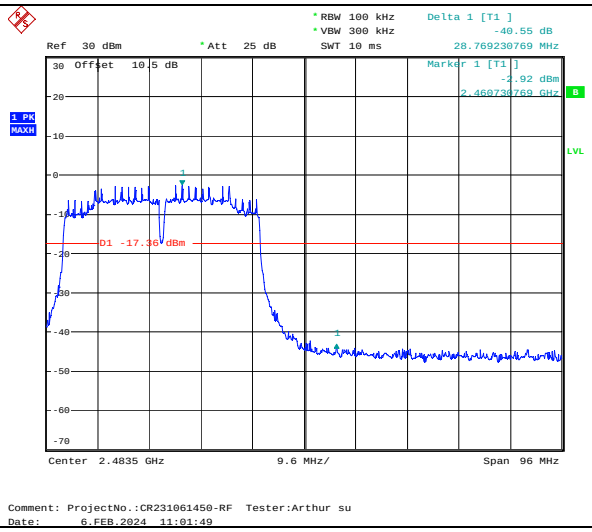


ProjectNo.:CR231061450-RF Tester:Arthur Su
Date: 2.FEB.2024 22:04:27

802.11n ht40_Chain 1_Highest Band edge

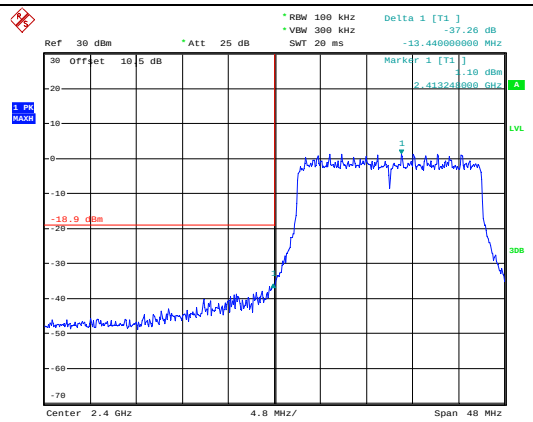


ProjectNo.:CR231061450-RF Tester:Arthur Su
Date: 2.FEB.2024 22:40:43

802.11n ht40_Chain 0_2457MHz Band edge	802.11n ht40_Chain 1_2457MHz Band edge
	

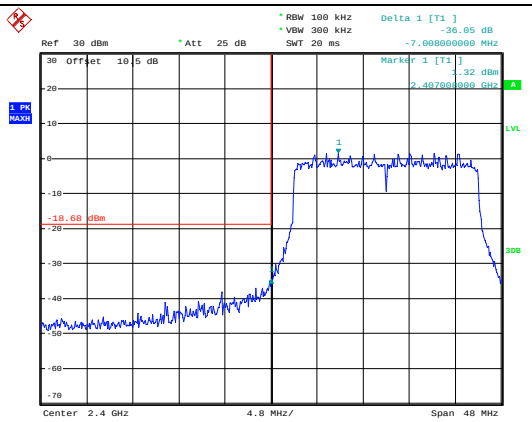
100 kHz Bandwidth of Frequency Band Edge

802.11ax hew20_Chain 0_Lowest Band edge



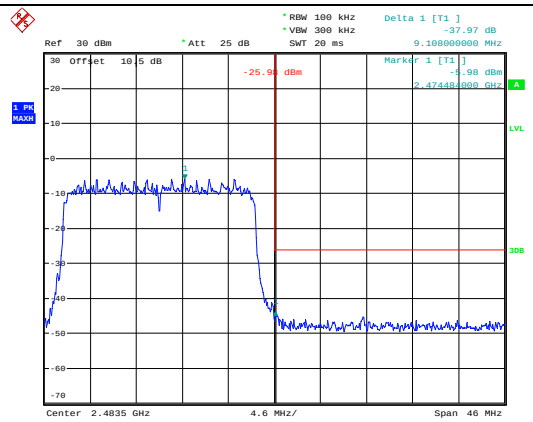
ProjectNo.:CR231061450-RF Tester:Arthur Su
Date: 1.NOV.2023 22:27:08

802.11ax hew20_Chain 1_Lowest Band edge



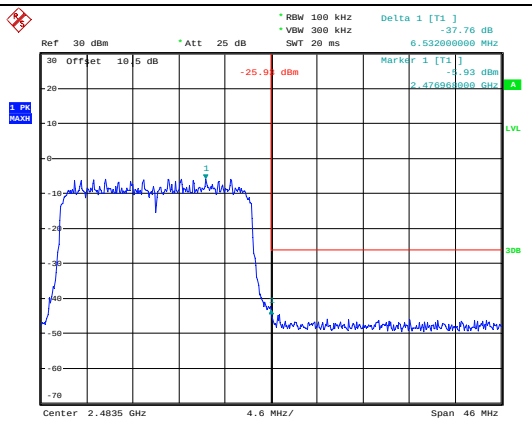
ProjectNo.:CR231061450-RF Tester:Arthur Su
Date: 1.NOV.2023 23:40:54

802.11ax hew20_Chain 0_Highest Band edge

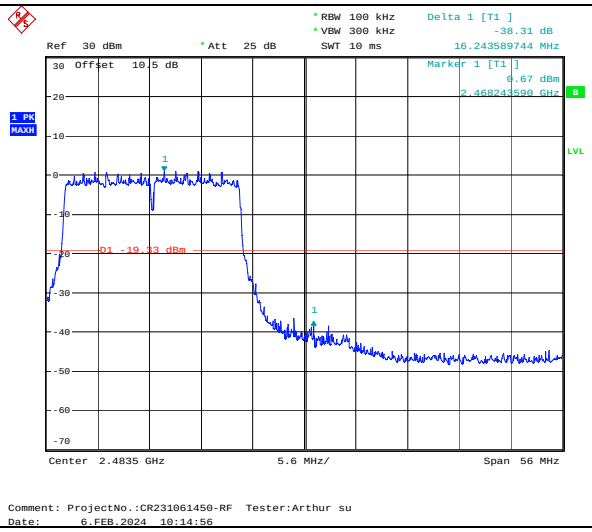
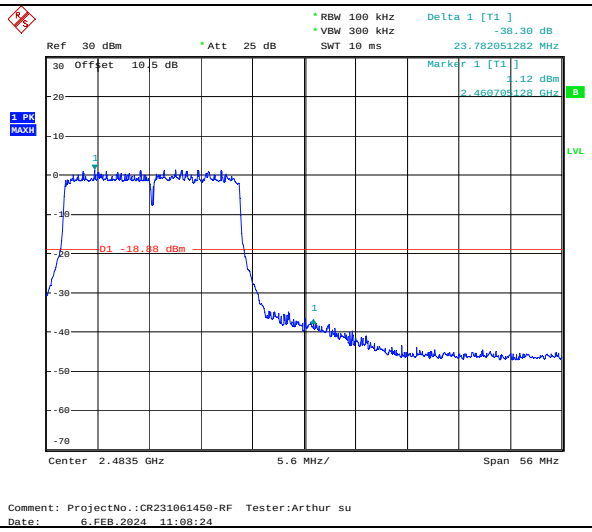


ProjectNo.:CR231061450-RF Tester:Arthur Su
Date: 2.FEB.2024 22:13:59

802.11ax hew20_Chain 1_Highest Band edge

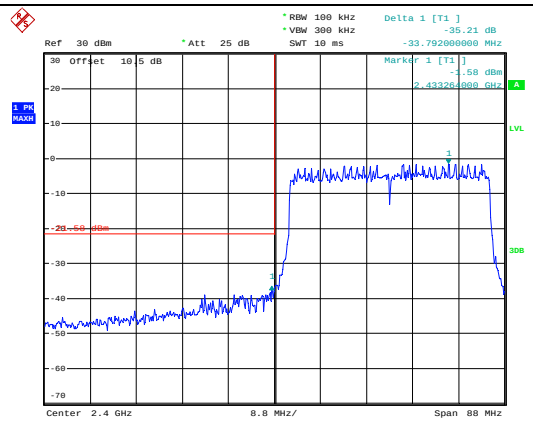


ProjectNo.:CR231061450-RF Tester:Arthur Su
Date: 2.FEB.2024 22:45:05

802.11ax hew20_Chain 0_2467MHz Band edge	802.11ax hew20_Chain 1_2467MHz Band edge
	

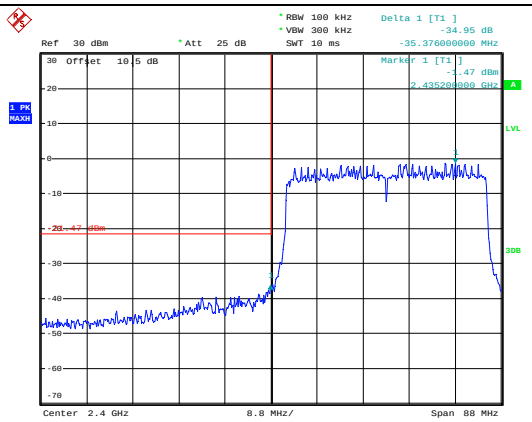
100 kHz Bandwidth of Frequency Band Edge

802.11ax hew40_Chain 0_Lowest Band edge



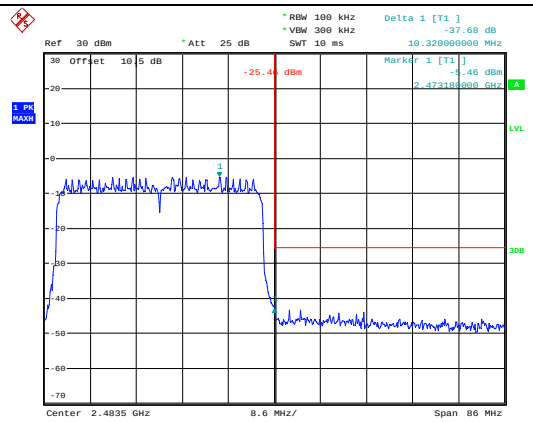
ProjectNo.:CR231061450-RF Tester:Arthur Su
Date: 1.NOV.2023 22:35:48

802.11ax hew40_Chain 1_Lowest Band edge



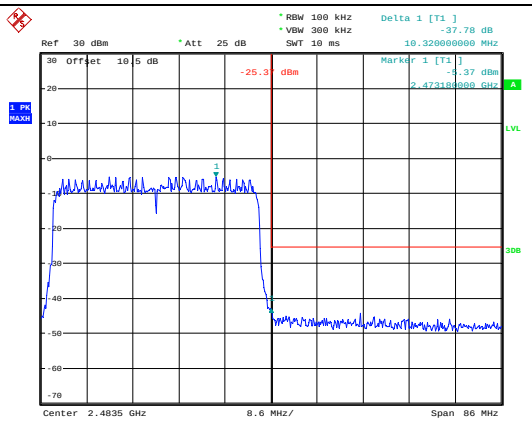
ProjectNo.:CR231061450-RF Tester:Arthur Su
Date: 1.NOV.2023 23:45:12

802.11ax hew40_Chain 0_Highest Band edge

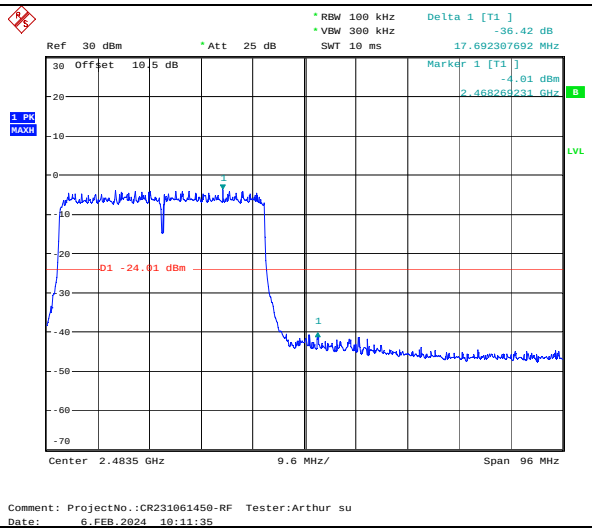
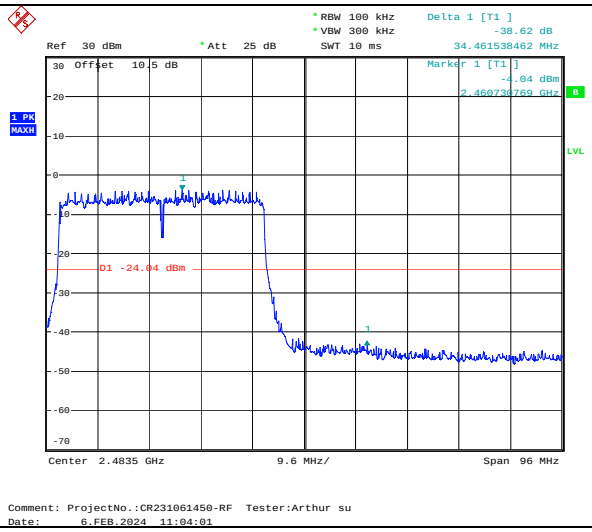


ProjectNo.:CR231061450-RF Tester:Arthur Su
Date: 2.FEB.2024 22:21:53

802.11ax hew40_Chain 1_Highest Band edge



ProjectNo.:CR231061450-RF Tester:Arthur Su
Date: 2.FEB.2024 22:47:11

802.11ax hew40_Chain 0_2457MHz Band edge	802.11ax hew40_Chain 1_2457MHz Band edge
	

4.8 Duty Cycle

Serial Number:	2CHV-2	Test Date:	2023/11/1-2024/2/2
Test Site:	RF	Test Mode:	Transmitting
Tester:	Arthur Su	Test Result:	N/A

Environmental Conditions:					
Temperature: (℃)	24.5-25.6	Relative Humidity: (%)	45-53	ATM Pressure: (kPa)	101.1-101.4

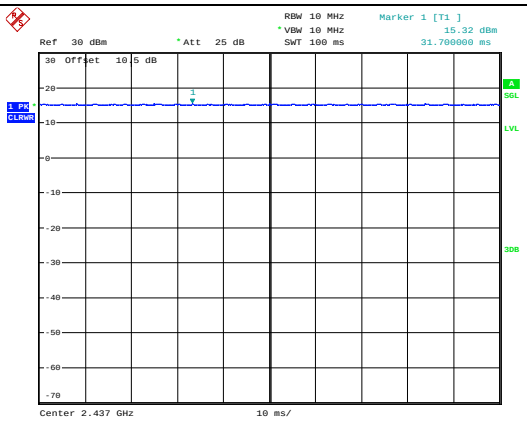
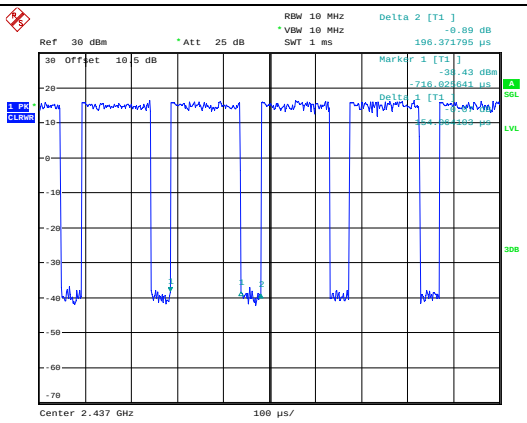
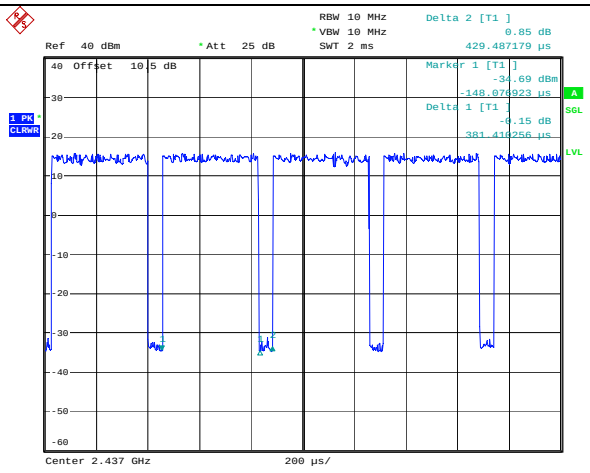
Test Equipment List and Details:

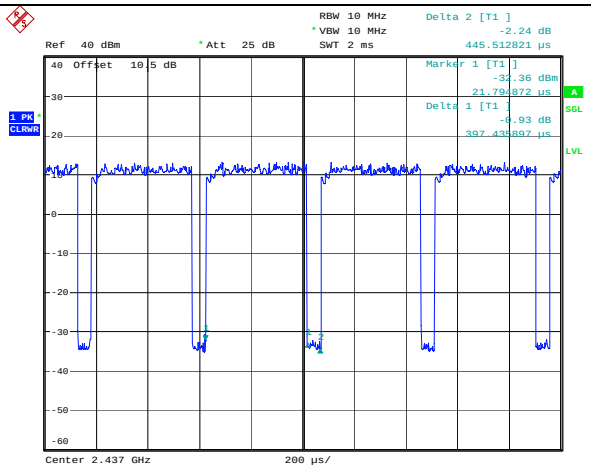
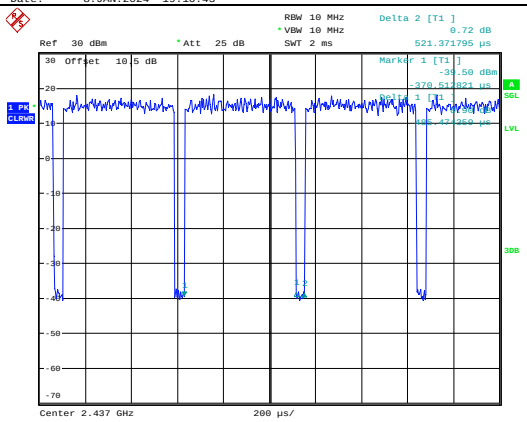
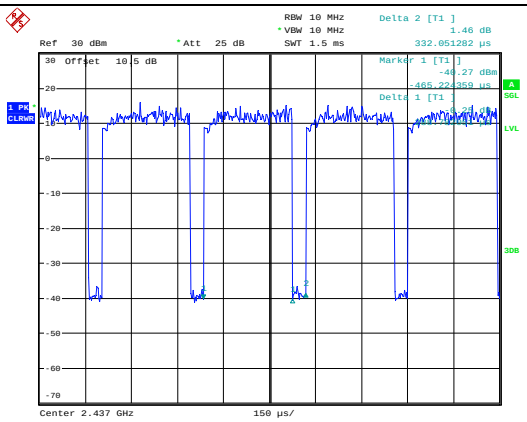
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSU26	200256	2023/3/31	2024/3/30
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A
eastsheep	Coaxial Attenuator	2W-SMA-JK-18G	21060301	Each time	N/A
R&S	Spectrum Analyzer	FSU26	100147	2023/3/31	2024/3/30

** Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

Test Data:

Test Modes	Ton (ms)	Ton+off (ms)	Duty cycle (%)	1/T (Hz)	Duty Factor (dB)	VBW Setting (kHz)
802.11b	100	100	100.00	/	/	0.01
802.11g	0.154	0.196	78.57	6494	1.05	10
802.11n ht20	0.381	0.429	88.81	2625	0.52	3
802.11n ht40	0.397	0.446	89.01	2519	0.51	3
802.11ax hew20	0.485	0.521	93.09	2062	0.31	5
802.11ax hew40	0.289	0.332	87.05	3460	0.60	10
Note: Test only was performed at Chain 0.						

Duty Cycle	
802.11b	 ProjectNo.:CR231061450-RF Tester:Arthur Su Date: 2.FEB.2024 22:54:39
802.11g	 ProjectNo.:CR231061450-RF Tester:Arthur Su Date: 2.FEB.2024 22:56:18
802.11n ht20	 Comment: ProjectNo.:CR231061450-RF Tester:Arthur Su Date: 8.JAN.2024 19:20:51

802.11n ht40	 Comment: ProjectNo.:CR231061450-RF Tester:Arthur Su Date: 8.JAN.2024 19:16:43
802.11ax hew20	 ProjectNo.:CR231061450-RF Tester:Arthur Su Date: 2.FEB.2024 23:01:21
802.11ax hew40	 ProjectNo.:CR231061450-RF Tester:Arthur Su Date: 2.FEB.2024 23:02:53

5. EUT PHOTOGRAPHS

Please refer to the attachment CR231061450-EXP EUT EXTERNAL PHOTOGRAPHS and CR231061450-INP EUT INTERNAL PHOTOGRAPHS

6. TEST SETUP PHOTOGRAPHS

Please refer to the attachment CR231061450-00C-TSP TEST SETUP PHOTOGRAPHS.

===== END OF REPORT =====