



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



TEST REPORT

Applicant: Noorio Innovations Limited

Address: Office 216 2nd Floor, Alpha House, 27-33 Nathan Road, Tsim Sha Tsui,
Kowloon, Hong Kong

FCC ID: 2A6TG-P210

Product Name: Noorio cam P210

Standard(s): 47 CFR Part 15, Subpart E(15.407)
ANSI C63.10-2013
KDB 789033 D02 General U-NII Test Procedures New
Rules v02r01

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: CR231166663-00C

Date Of Issue: 2023/12/25

Reviewed By: Calvin Chen

Title: RF Engineer

Approved By: Sun Zhong

Title: Manager

Test Laboratory: China Certification ICT Co., Ltd (Dongguan)

No. 113, Pingkang Road, Dalang Town, Dongguan,
Guangdong, China
Tel: +86-769-82016888

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

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
1.0	CR231166663-00C	Original Report	2023/12/25

1. GENERAL INFORMATION

1.1 Product Description for Equipment under Test (EUT)

EUT Name:	Noorio cam P210
EUT Model:	P210
Multiple Models:	P220
Operation Frequency:	5180-5240 MHz (802.11a/n ht20) 5745-5825 MHz (802.11a/n ht20)
Maximum Average Output Power (Conducted):	13.88 dBm (5150-5250 MHz) 13.43 dBm (5725-5850 MHz)
Modulation Type:	802.11a/n: OFDM-BPSK, QPSK, 16QAM, 64QAM
Rated Input Voltage:	DC 5V from USB
Serial Number:	2DJE-1 (P210, for RF Conducted Test) 2DJE-2 (P210, for Radiated Spurious Emissions Test) 2DJE-3 (P220, for Radiated Spurious Emissions Test) 2DJE-4 (P210, for AC line Conducted Emissions Test) 2DJE-5 (P220, for AC line Conducted Emissions Test)
EUT Received Date:	2023/11/14
EUT Received Status:	Good
Note: The Multiple models are electrically identical with the test model. Please refer to the declaration letter for more detail, which was provided by manufacturer. Conducted Emissions Test and Radiated Emissions Test only performed at P220 since the worst is mode: per test for DTS report.	

1.1.2 Operation Frequency Detail:

5150-5250MHz Band		5725-5850MHz Band	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	149	5745
40	5200	153	5765
44	5220	157	5785
48	5240	161	5805
/	/	165	5825
Per section 15.31(m), the below frequencies were performed the test as below:			
36	5180	149	5745
40	5200	157	5785
48	5240	165	5825

1.1.3 Antenna Information Detail▲:

Antenna Type	input impedance (Ohm)	Frequency Range	Antenna Gain
FPC	50	5150~5250MHz	4.12 dBi
		5725~5850MHz	3.99 dBi
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.			

1.1.4 Accessory Information:

Accessory Description	Manufacturer	Model
/	/	/

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:		CRT		
The software was provided by manufacturer. The maximum power was configured as below, that was provided by the manufacturer▲:				
5150-5250 MHz Band:				
Test Modes	Test Channels	Test Frequency	Data rate	Power Level Setting
802.11a	Lowest	5180	6Mbps	14
	Middle	5200	6Mbps	14
	Highest	5240	6Mbps	14
802.11n ht20	Lowest	5180	MCS0	14
	Middle	5200	MCS0	14
	Highest	5240	MCS0	14
5725-5850 MHz Band:				
Test Modes	Test Channels	Test Frequency	Data rate	Power Level Setting
802.11a	Lowest	5745	6Mbps	15
	Middle	5785	6Mbps	15
	Highest	5825	6Mbps	15
802.11n ht20	Lowest	5745	MCS0	15
	Middle	5785	MCS0	15
	Highest	5825	MCS0	15

Note:
The above are the worst-case data rates, which are determined for each mode based upon investigations by measuring the average power and PSD across all data rates, bandwidths, and modulations.

1.2.2 Support Equipment List and Details

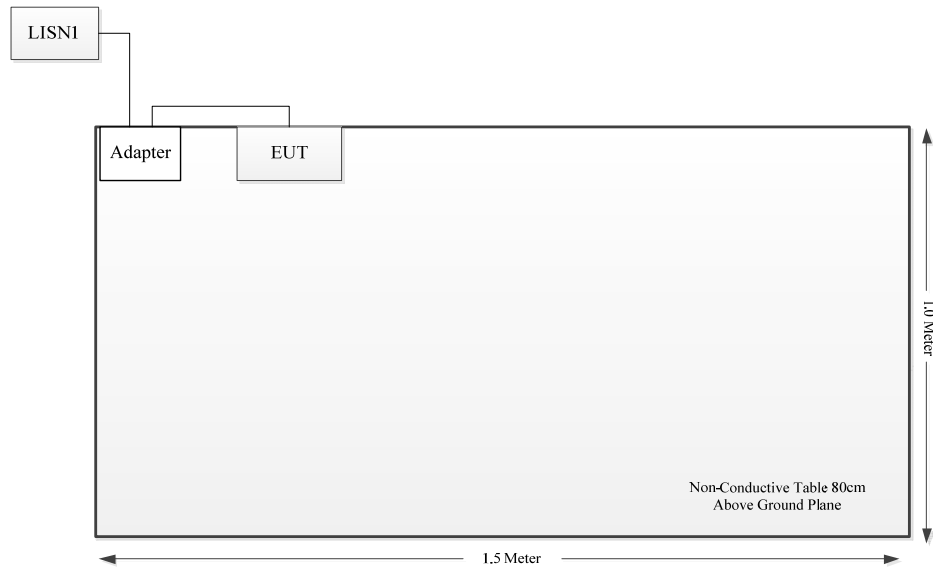
Manufacturer	Description	Model	Serial Number
Jian Aohai	Adapter	A8-050200U-US3	AD220930002

1.2.3 Support Cable List and Details

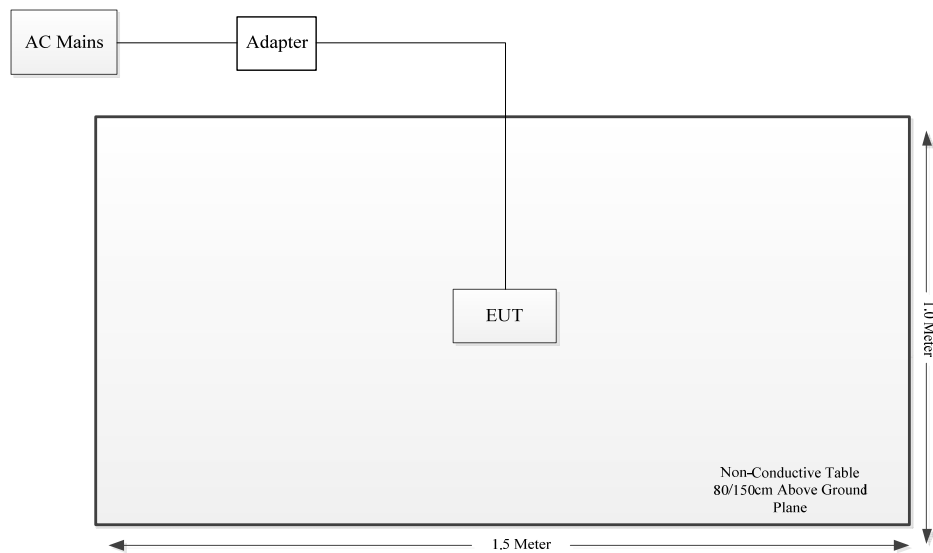
Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	To
USB Cable	No	No	0.8	Adapter	EUT

1.2.4 Block Diagram of Test Setup

AC line conducted emissions:



Radiated 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, 30M~200MHz: 4.15 dB,200M~1GHz: 5.61 dB,1G~6GHz: 5.14 dB, 6G~18GHz: 5.93 dB,18G~26.5G:5.47 dB,26.5G~40G: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
FCC§15.205& §15.209 &§15.407(b)	Undesirable Emission& Restricted Bands	Compliant
FCC§15.407(a) (e)	Emission Bandwidth	Compliant
FCC§15.407(a)	Maximum Conducted Output Power	Compliant
FCC§15.407 (a)	Power Spectral Density	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 μ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

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

*Decreases with the logarithm of the frequency.

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

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

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

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

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

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 §15.407 (b);

Undesirable emission limits. Except as shown in paragraph (b)(7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(4) For transmitters operating solely in the 5.725-5.850 GHz band:

(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

(ii) Devices certified before March 2, 2017 with antenna gain greater than 10 dBi may demonstrate compliance with the emission limits in § 15.247(d), but manufacturing, marketing and importing of devices certified under this alternative must cease by March 2, 2018. Devices certified before March 2, 2018 with antenna gain of 10 dBi or less may demonstrate compliance with the emission limits in § 15.247(d), but manufacturing, marketing and importing of devices certified under this alternative must cease before March 2, 2020.

(8) The emission measurements shall be performed using a minimum resolution bandwidth of 1 MHz. A lower resolution bandwidth may be employed near the band edge, when necessary, provided the measured energy is integrated to show the total power over 1 MHz.

(9) Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in § 15.209. Further, any U-NII devices using an AC power line are required to comply also with the conducted limits set forth in § 15.207.

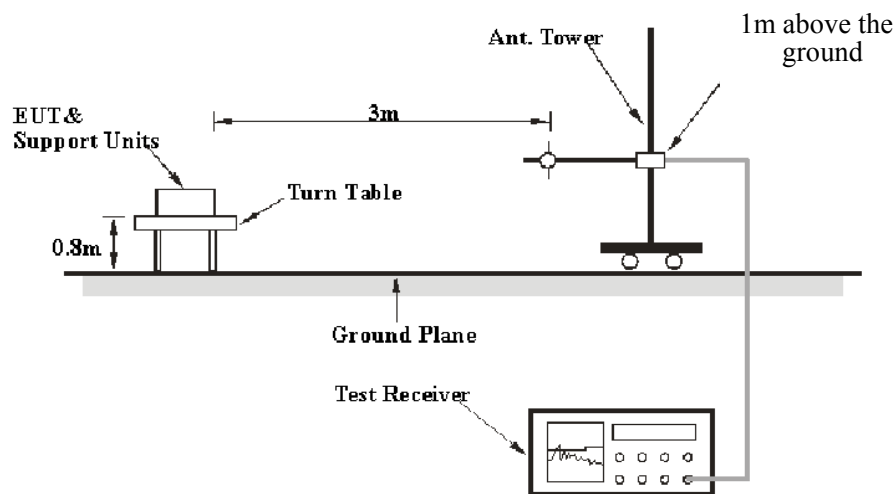
(10) The provisions of § 15.205 apply to intentional radiators operating under this section.

(11) When measuring the emission limits, the nominal carrier frequency shall be adjusted as close to the upper and lower frequency band edges as the design of the equipment permits.

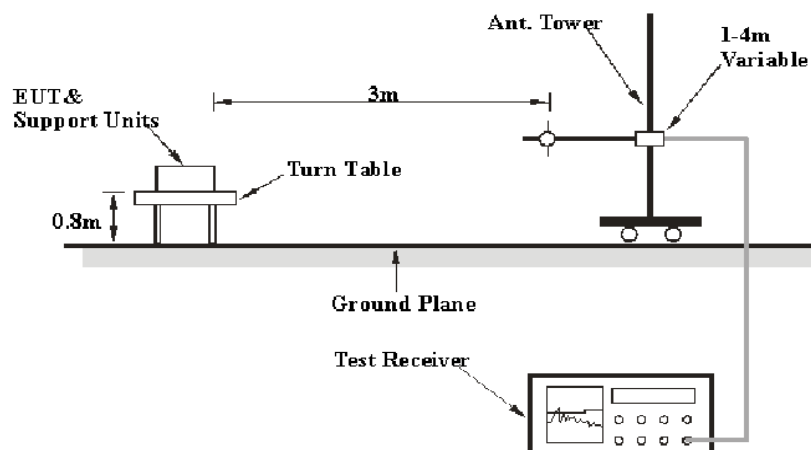
(c) The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signalling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization a description of how this requirement is met.

3.2.2 EUT Setup

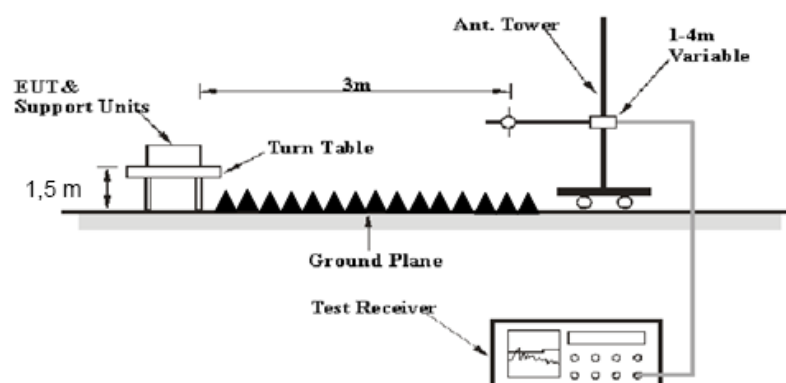
9kHz~30MHz:

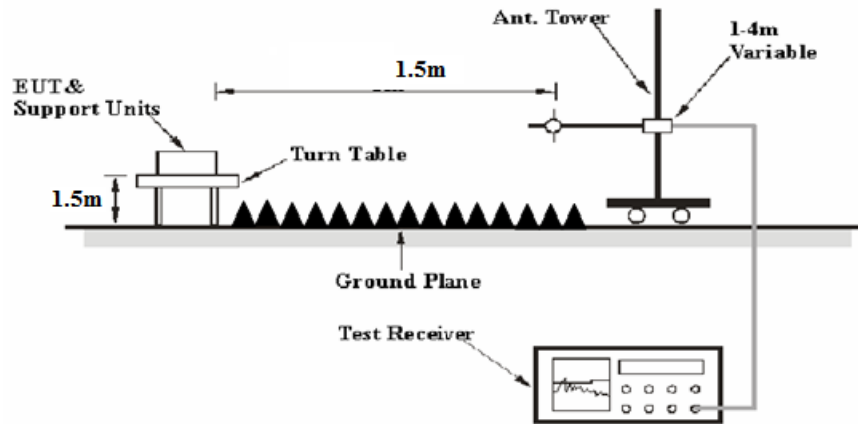


30MHz~1GHz:



1GHz – 26.5GHz:



26.5GHz - 40 GHz:

The radiated emission tests were performed in the 3 meters chamber test site, using the setup accordance with the ANSI C63.10-2013. The specification used was FCC 15.209, FCC 15.407 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 40 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- 40GHz:

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

During the radiated emission test, the adapter was connected to the first AC floor outlet.

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

According to C63.10, the above 1G test result shall be extrapolated to the specified distance using an extrapolation Factor of 20dB/decade from 3m to 1.5m

Distance extrapolation Factor = $20 \log (\text{specific distance [3m]}/\text{test distance [1.5m]}) \text{ dB} = 6.02 \text{ dB}$

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

For 30MHz-26.5GHz:

Factor = Antenna Factor + Cable Loss- Amplifier Gain

For 26.5GHz-40GHz

Factor = Antenna Factor + Cable Loss- Amplifier Gain -Distance extrapolation Factor

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

Margin = Limit – Result

3.3 Emission Bandwidth:

3.3.1 Applicable Standard

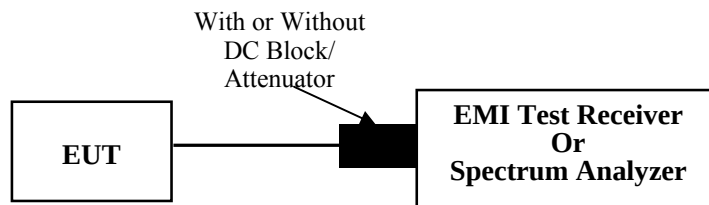
FCC §15.407 (a)

(2) For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

FCC §15.407 (e)

Within the 5.725-5.850 GHz and 5.850-5.895 GHz bands, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

3.3.2 EUT Setup



3.3.3 Test Procedure

6 dB emission bandwidth:

According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01

- Set RBW = 100 kHz.
- Set the video bandwidth (VBW) ≥ 3 RBW.
- Detector = Peak.
- Trace mode = max hold.
- Sweep = auto couple.
- Allow the trace to stabilize.
- 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.

Note: The automatic bandwidth measurement capability of a spectrum analyzer or EMI receiver may be employed if it implements the functionality described in this section. For devices that use channel aggregation refer to III.A and III.C for determining emission bandwidth.

99% Occupied Bandwidth:

According to ANSI C63.10-2013 Section 12.4.2&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).

3.4 Maximum Conducted Output Power:

3.4.1 Applicable Standard

FCC §15.407(a) (1)

(ii) For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

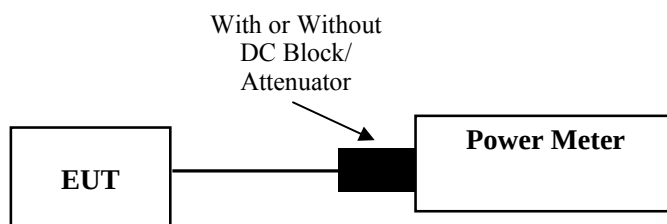
FCC §15.407(a) (2)

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

FCC §15.407(a) (3)(i)

For the band 5.725-5.850 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

3.4.2 EUT Setup



3.4.3 Test Procedure

According to ANSI C63.10-2013 Section 12.3.3.2

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

3.5 Maximum Power Spectral Density:

3.5.1 Applicable Standard

FCC §15.407(a) (1)

(ii) For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

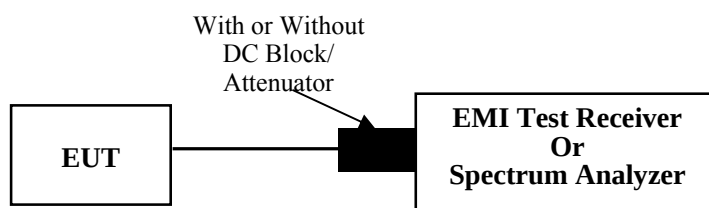
FCC §15.407(a) (2)

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

FCC §15.407(a) (3)(i)

For the band 5.725-5.850 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

3.5.2 EUT Setup



3.5.3 Test Procedure

According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01

Duty cycle $\geq 98\%$

KDB 789033 D02 General UNII Test Procedures New Rules v02r01 Method SA-1 should be applied.

Duty cycle $< 98\%$, duty cycle variations are less than $\pm 2\%$

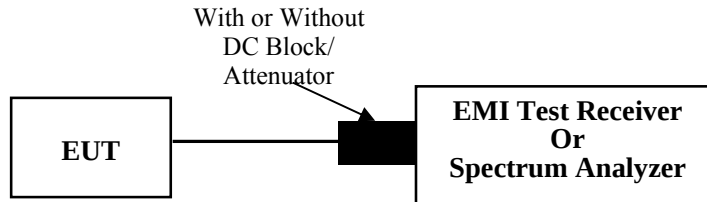
KDB 789033 D02 General UNII Test Procedures New Rules v02r01 Method SA-2 should be applied.

Duty cycle $< 98\%$, duty cycle variations exceed $\pm 2\%$

KDB 789033 D02 General UNII Test Procedures New Rules v02r01 Method SA-3 should be applied.

3.6 Duty Cycle:

3.6.1 EUT Setup



3.6.2 Test Procedure

According to ANSI C63.10-2013 Section 12.2

The zero-span mode on a spectrum analyzer or EMI receiver if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the ON and OFF times of the transmitted signal:

- 1) Set the center frequency of the instrument to the center frequency of the transmission.
- 2) Set $RBW \geq OBW$ if possible; otherwise, set RBW to the largest available value.
- 3) Set $VBW \geq RBW$. Set detector = peak or average.
- 4) The zero-span measurement method shall not be used unless both RBW and VBW are $> 50/T$ and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring the duty cycle shall not be used if $T \leq 16.7 \mu s$.)

3.7 Antenna Requirement

3.7.1 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.

3.7.2 Judgment

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

4. Test DATA AND RESULTS

4.1 AC Line Conducted Emissions

Serial Number:	2DJE-4	Test Date:	2023/11/28
Test Site:	CE	Test Mode:	Transmitting(Maximum output power mode 802.11a 5180MHz)
Tester:	David Huang	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	27.1	Relative Humidity: (%)	47	ATM Pressure: (kPa)	101.3
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Test Equipment List and Details:

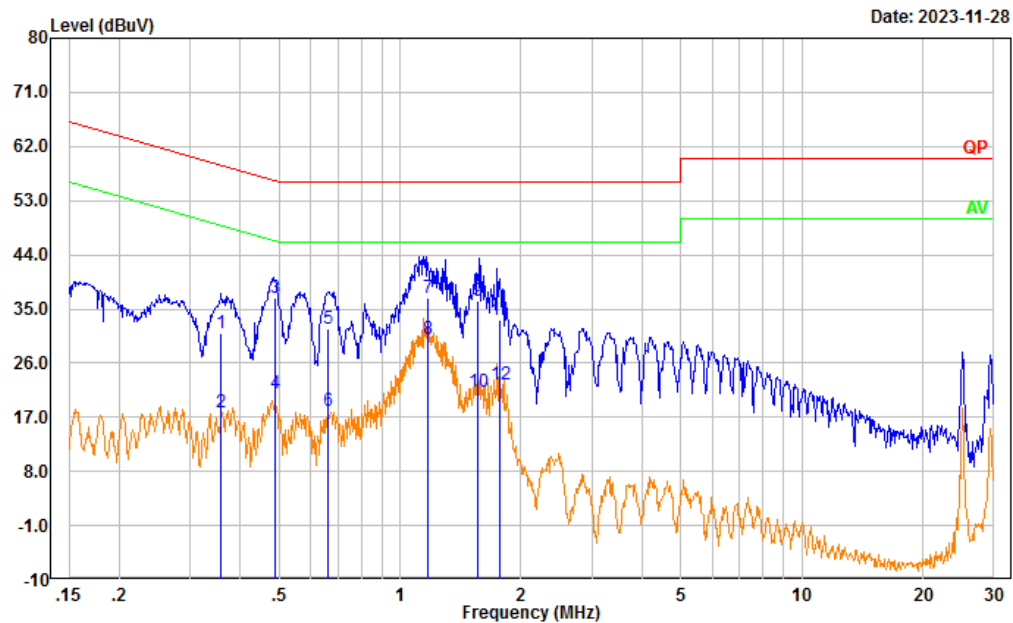
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	LISN	ENV216	101134	2023/3/31	2024/3/30
R&S	EMI Test Receiver	ESR3	102726	2023/3/31	2024/3/30
MICRO-COAX	Coaxial Cable	UTIFLEX	C-0200-01	2023/8/6	2024/8/5
Audix	Test Software	E3	190306 (V9)	N/A	N/A

* 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:

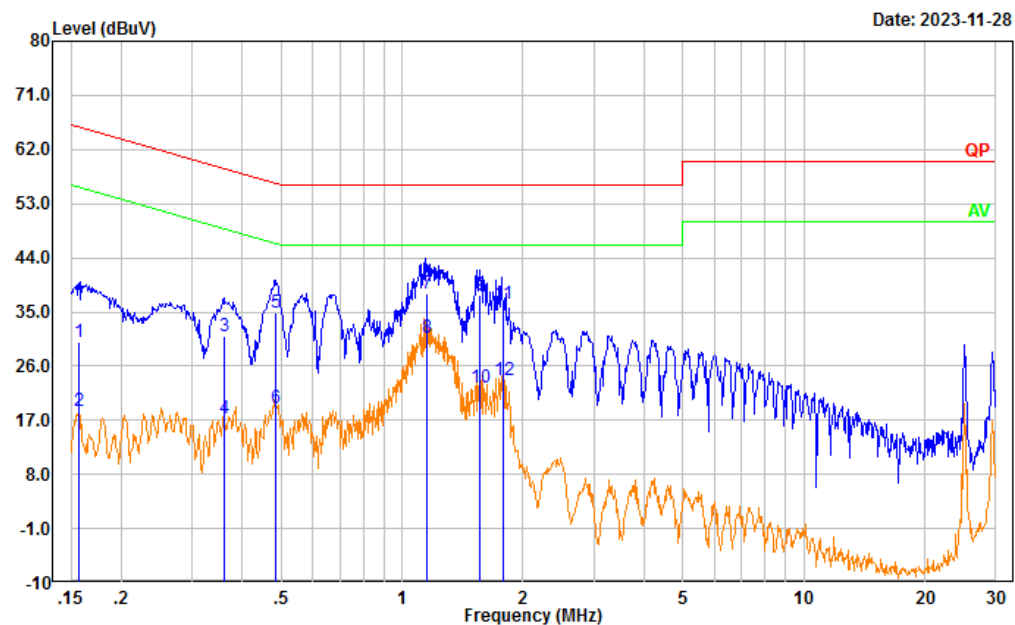
P210:

Project No.: CR231166663-RF
 Tester: David Huang
 Port: Line
 Note: Transmitting(5G WIFI P210)



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.359	21.38	9.61	30.99	58.75	27.76	QP
2	0.359	8.14	9.61	17.75	48.75	31.00	Average
3	0.487	27.18	9.61	36.79	56.22	19.43	QP
4	0.487	11.25	9.61	20.86	46.22	25.36	Average
5	0.661	22.07	9.62	31.69	56.00	24.31	QP
6	0.661	8.51	9.62	18.13	46.00	27.87	Average
7	1.170	27.25	9.62	36.87	56.00	19.13	QP
8	1.170	20.49	9.62	30.11	46.00	15.89	Average
9	1.566	26.62	9.63	36.25	56.00	19.75	QP
10	1.566	11.53	9.63	21.16	46.00	24.84	Average
11	1.770	23.57	9.63	33.20	56.00	22.80	QP
12	1.770	12.75	9.63	22.38	46.00	23.62	Average

Project No.: CR231166663-RF
 Tester: David Huang
 Port: neutral
 Note: Transmitting(5G WIFI P210)



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.156	20.41	9.61	30.02	65.65	35.63	QP
2	0.156	8.80	9.61	18.41	55.65	37.24	Average
3	0.361	21.24	9.61	30.85	58.71	27.86	QP
4	0.361	7.82	9.61	17.43	48.71	31.28	Average
5	0.484	25.20	9.61	34.81	56.28	21.47	QP
6	0.484	9.37	9.61	18.98	46.28	27.30	Average
7	1.156	28.37	9.62	37.99	56.00	18.01	QP
8	1.156	21.23	9.62	30.85	46.00	15.15	Average
9	1.562	28.20	9.63	37.83	56.00	18.17	QP
10	1.562	12.82	9.63	22.45	46.00	23.55	Average
11	1.780	26.70	9.63	36.33	56.00	19.67	QP
12	1.780	14.13	9.63	23.76	46.00	22.24	Average

4.2 Radiation Spurious Emissions

Serial Number:	2DJE-2	Test Date:	2023/12/9~2023/12/18
Test Site:	966-2,966-1	Test Mode:	Transmitting
Tester:	Jeff Luo, Mack Huang	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	26.2~26.3	Relative Humidity: (%)	47~53	ATM Pressure: (kPa)	100.9~101.8
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
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
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
PASTERNAK	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	5150-5850MHz	OE01902423	2023/8/6	2024/8/5
Mini Circuits	High Pass Filter	VHF-6010+	31119	2023/8/6	2024/8/5
PASTERNAK	Horn Antenna	PE9850/2F-20	072001	2021/2/5	2024/2/4

* 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:

Please refer to the below table and plots.

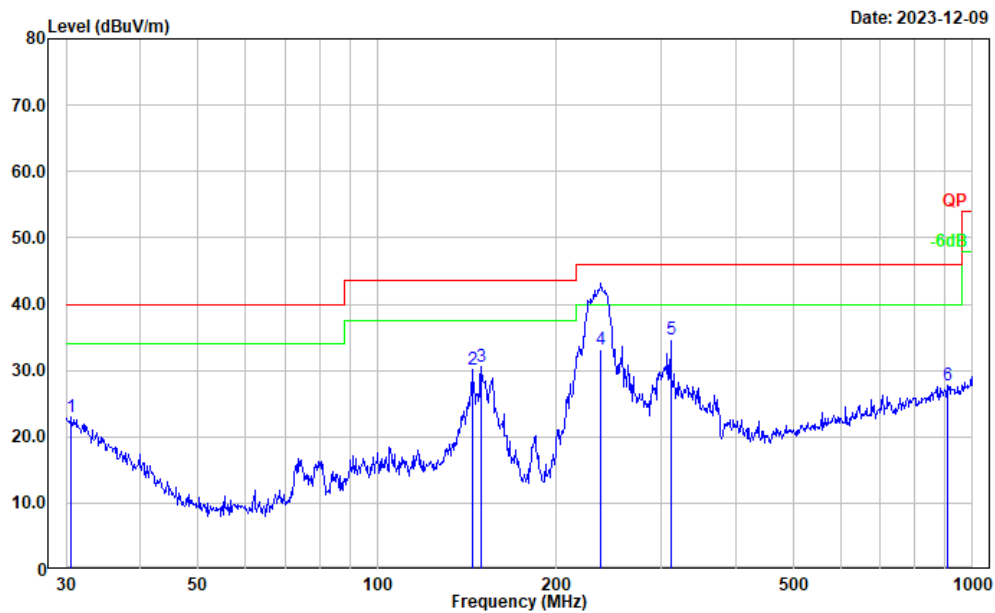
After pre-scan in the X, Y and Z axes of orientation, the worst case is below:

For 9kHz-30MHz, The amplitude of spurious emissions attenuated more than 20 dB below the limit was not be recorded.

1) 30MHz-1GHz (maximum output power mode, 802.11a at 5150-5250 MHz band)

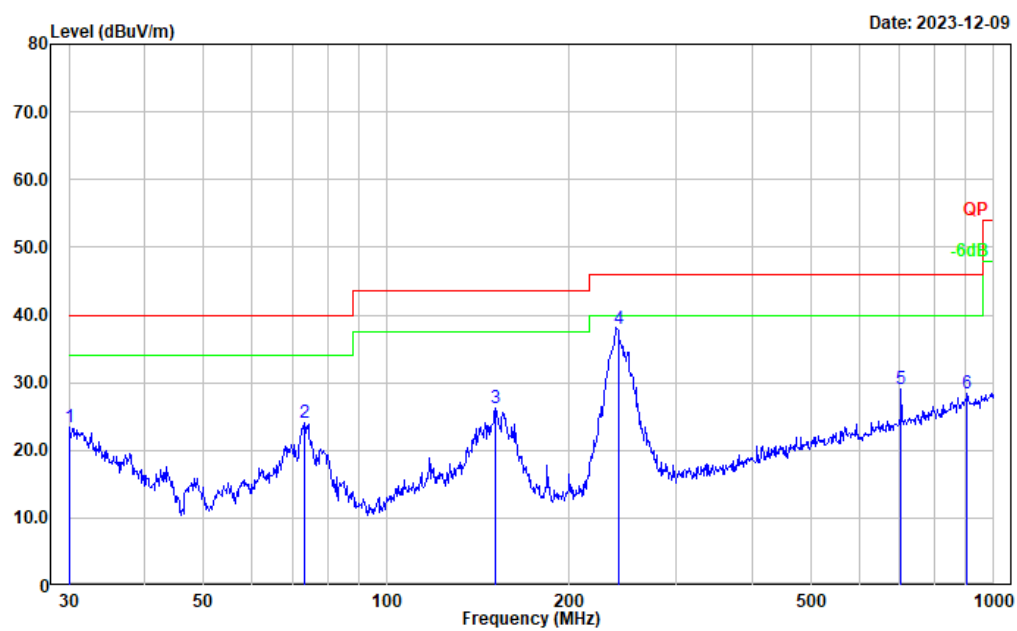
Low Channel:

Project No.: CR231166663-RF
Tester: Jeff Luo
Polarization: horizontal
Note: Transmitting(P220 5G WIFI)



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.638	27.23	-4.24	22.99	40.00	17.01	Peak
2	144.335	42.33	-12.09	30.24	43.50	13.26	Peak
3	149.486	42.68	-12.14	30.54	43.50	12.96	Peak
4	237.476	45.98	-12.91	33.07	46.00	12.93	QP
5	311.087	44.76	-10.18	34.58	46.00	11.42	Peak
6	909.667	27.32	0.42	27.74	46.00	18.26	Peak

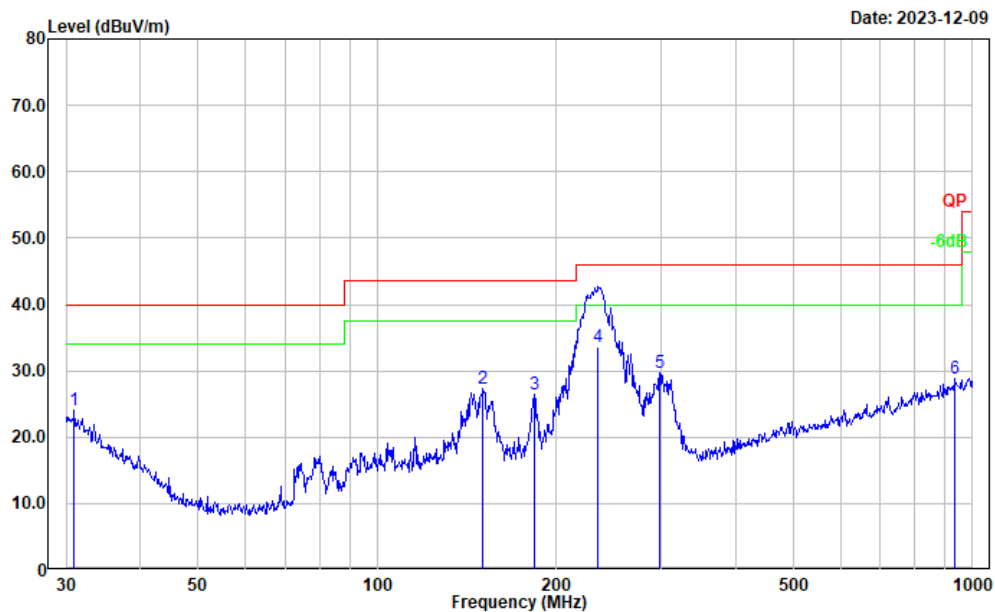
Project No.: CR231166663-RF
Tester: Jeff Luo
Polarization: vertical
Note: Transmitting(P220 5G WIFI)



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.105	27.31	-3.93	23.38	40.00	16.62	Peak
2	73.359	41.15	-17.13	24.02	40.00	15.98	Peak
3	151.067	38.35	-12.18	26.17	43.50	17.33	Peak
4	240.830	50.82	-12.82	38.00	46.00	8.00	Peak
5	704.226	32.00	-2.92	29.08	46.00	16.92	Peak
6	903.309	28.18	0.16	28.34	46.00	17.66	Peak

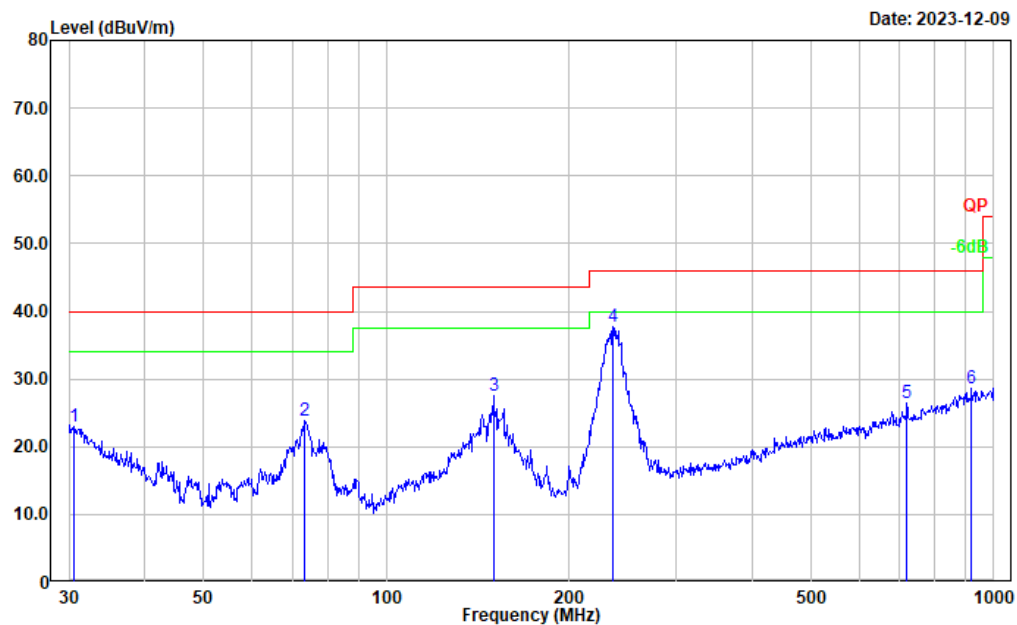
Middle Channel:

Project No.: CR231166663-RF
Tester: Jeff Luo
Polarization: horizontal
Note: Transmitting(P220 5G WIFI)



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.962	28.55	-4.44	24.11	40.00	15.89	Peak
2	150.538	39.57	-12.18	27.39	43.50	16.11	Peak
3	183.844	40.23	-13.76	26.47	43.50	17.03	Peak
4	234.991	46.67	-13.02	33.65	46.00	12.35	QP
5	298.268	40.20	-10.46	29.74	46.00	16.26	Peak
6	935.546	28.22	0.68	28.90	46.00	17.10	Peak

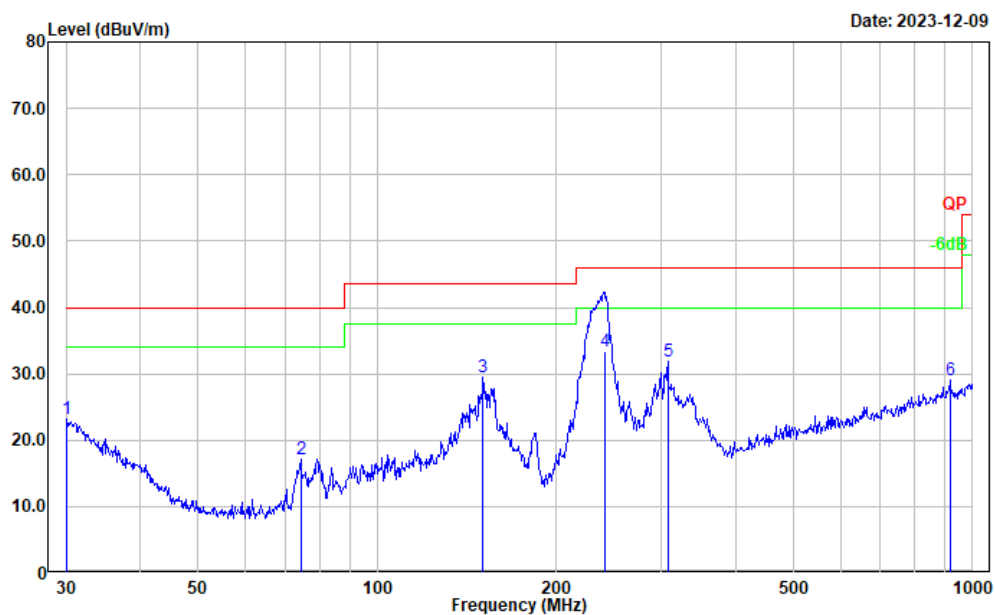
Project No.: CR231166663-RF
Tester: Jeff Luo
Polarization: vertical
Note: Transmitting(P220 5G WIFI)



No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Result (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector
1	30.638	27.11	-4.24	22.87	40.00	17.13	Peak
2	73.103	40.95	-17.10	23.85	40.00	16.15	Peak
3	150.011	39.69	-12.19	27.50	43.50	16.00	Peak
4	235.816	50.72	-12.99	37.73	46.00	8.27	Peak
5	719.200	29.18	-2.74	26.44	46.00	19.56	Peak
6	919.287	28.00	0.56	28.56	46.00	17.44	Peak

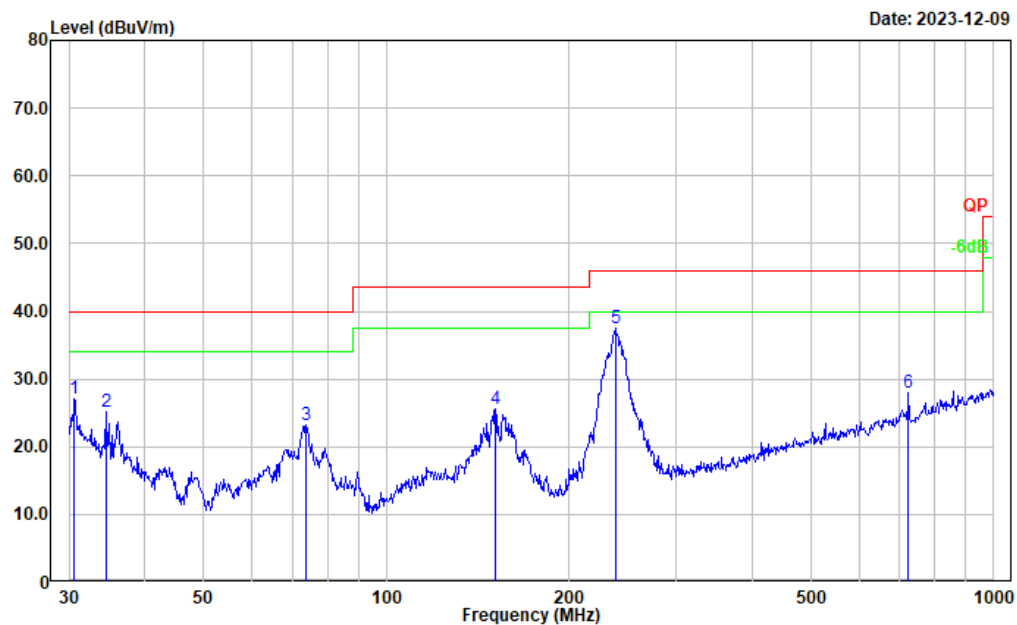
High Channel:

Project No.: CR231166663-RF
Tester: Jeff Luo
Polarization: horizontal
Note: Transmitting(P220 5G WIFI)



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.105	27.10	-3.93	23.17	40.00	16.83	Peak
2	74.396	34.24	-17.18	17.06	40.00	22.94	Peak
3	150.538	41.57	-12.18	29.39	43.50	14.11	Peak
4	240.830	46.19	-12.82	33.37	46.00	12.63	QP
5	307.831	42.01	-10.24	31.77	46.00	14.23	Peak
6	916.069	28.51	0.46	28.97	46.00	17.03	Peak

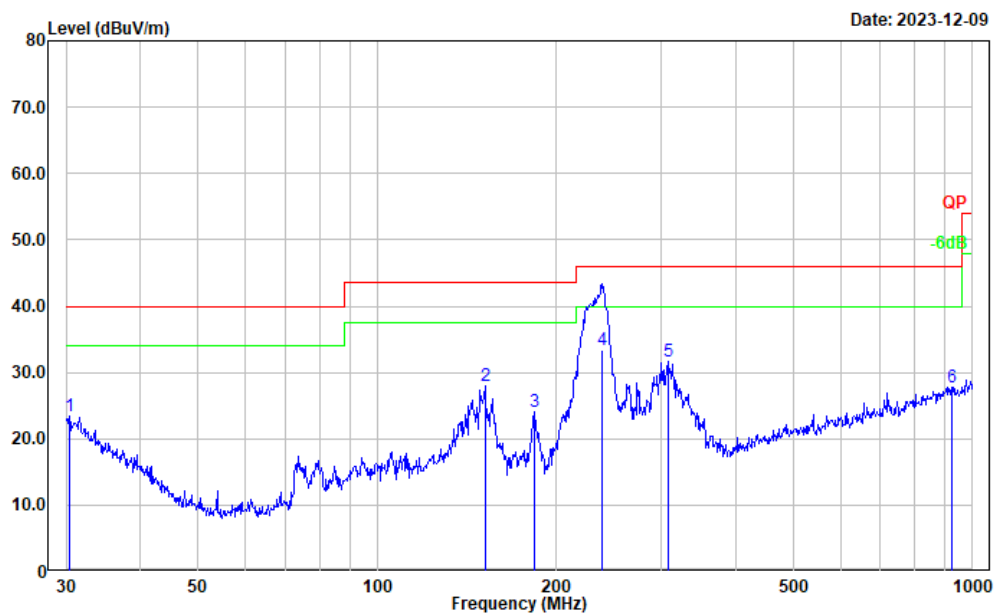
Project No.: CR231166663-RF
Tester: Jeff Luo
Polarization: vertical
Note: Transmitting(P220 5G WIFI)



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.638	31.34	-4.24	27.10	40.00	12.90	Peak
2	34.517	32.39	-7.16	25.23	40.00	14.77	Peak
3	73.617	40.41	-17.14	23.27	40.00	16.73	Peak
4	151.067	37.78	-12.18	25.60	43.50	17.90	Peak
5	238.310	50.37	-12.88	37.49	46.00	8.51	Peak
6	724.261	30.73	-2.75	27.98	46.00	18.02	Peak

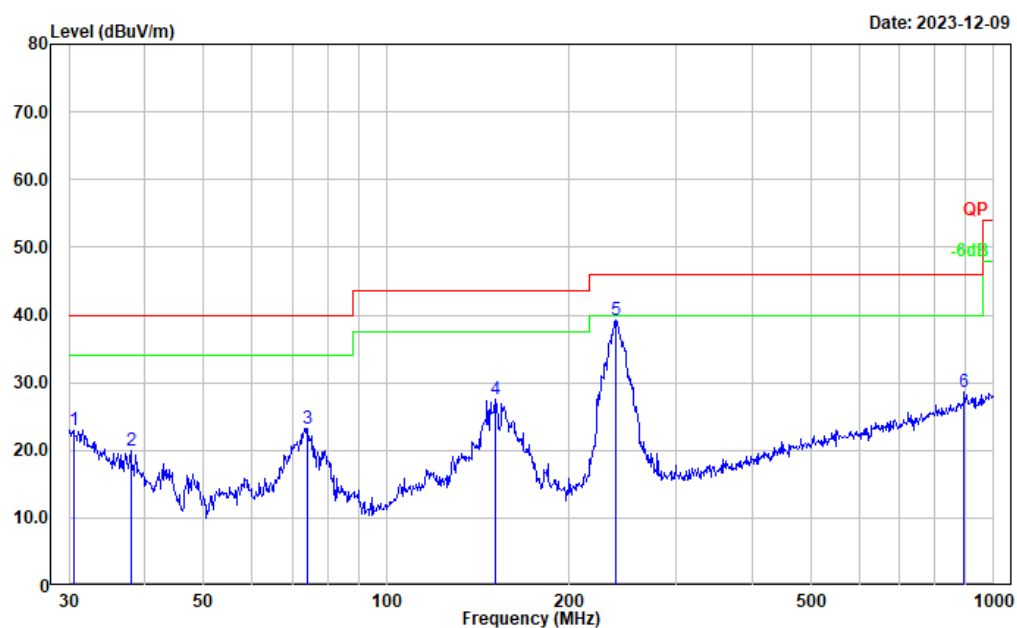
maximum output power mode, 802.11a at 5725-5850 MHz band
Low Channel:

Project No.: CR231166663-RF
Tester: Jeff Luo
Polarization: horizontal
Note: Transmitting(P220 5G WIFI)



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.424	27.54	-4.12	23.42	40.00	16.58	Peak
2	151.597	40.24	-12.18	28.06	43.50	15.44	Peak
3	183.201	37.77	-13.70	24.07	43.50	19.43	Peak
4	239.147	46.14	-12.83	33.31	46.00	12.69	QP
5	307.831	41.84	-10.24	31.60	46.00	14.40	Peak
6	922.516	27.30	0.53	27.83	46.00	18.17	Peak

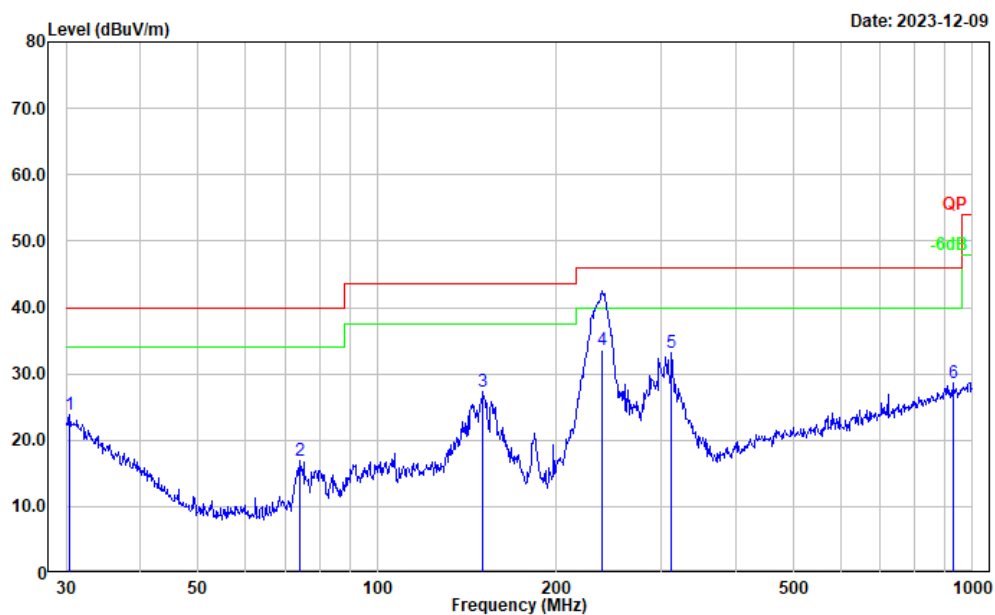
Project No.: CR231166663-RF
Tester: Jeff Luo
Polarization: vertical
Note: Transmitting(P220 5G WIFI)



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.531	27.25	-4.18	23.07	40.00	16.93	Peak
2	37.945	29.82	-9.78	20.04	40.00	19.96	Peak
3	74.135	40.37	-17.18	23.19	40.00	16.81	Peak
4	151.067	39.68	-12.18	27.50	43.50	16.00	Peak
5	239.147	52.01	-12.83	39.18	46.00	6.82	Peak
6	893.857	28.84	-0.13	28.71	46.00	17.29	Peak

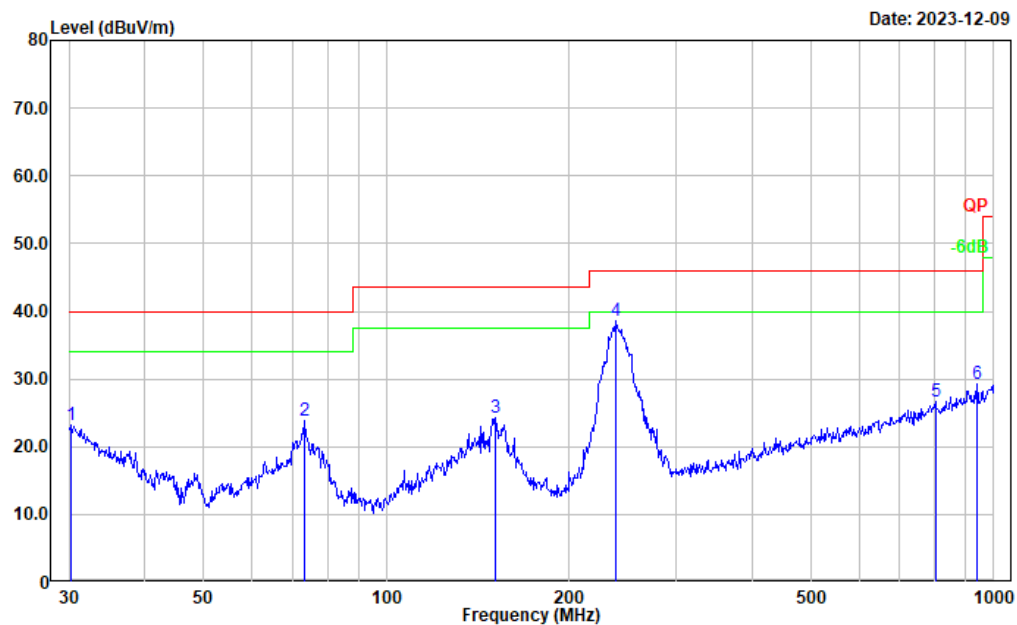
Middle Channel:

Project No.: CR231166663-RF
Tester: Jeff Luo
Polarization: horizontal
Note: Transmitting(P220 5G WIFI)



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.424	27.91	-4.12	23.79	40.00	16.21	Peak
2	74.135	34.02	-17.18	16.84	40.00	23.16	Peak
3	150.538	39.51	-12.18	27.33	43.50	16.17	Peak
4	239.147	46.42	-12.83	33.59	46.00	12.41	QP
5	312.179	43.27	-10.16	33.11	46.00	12.89	Peak
6	925.756	28.15	0.51	28.66	46.00	17.34	Peak

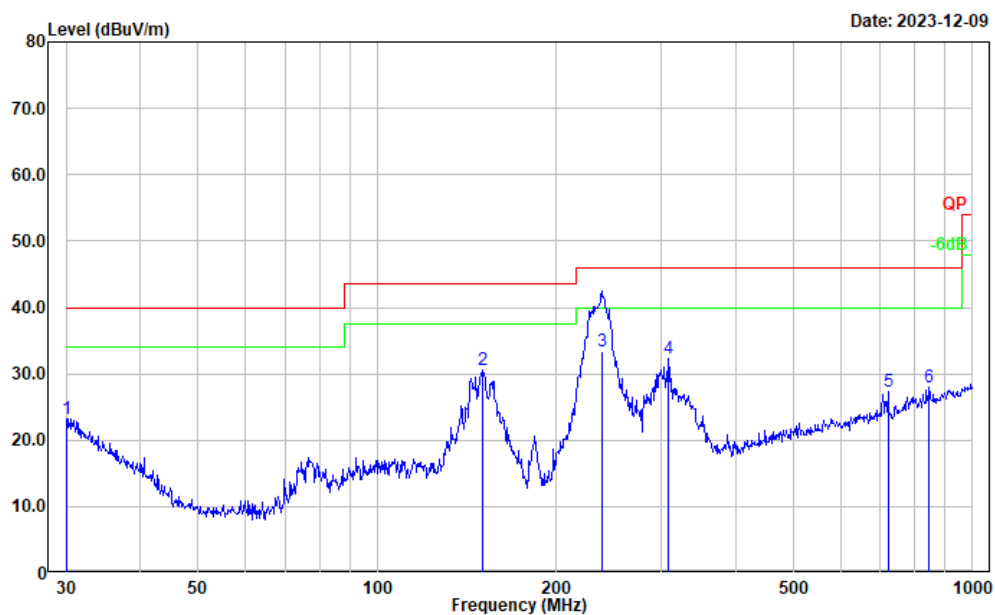
Project No.: CR231166663-RF
Tester: Jeff Luo
Polarization: vertical
Note: Transmitting(P220 5G WIFI)



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBUV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.211	27.28	-4.00	23.28	40.00	16.72	Peak
2	73.103	40.95	-17.10	23.85	40.00	16.15	Peak
3	151.067	36.44	-12.18	24.26	43.50	19.24	Peak
4	239.147	51.47	-12.83	38.64	46.00	7.36	Peak
5	801.786	28.03	-1.35	26.68	46.00	19.32	Peak
6	938.833	28.35	0.82	29.17	46.00	16.83	Peak

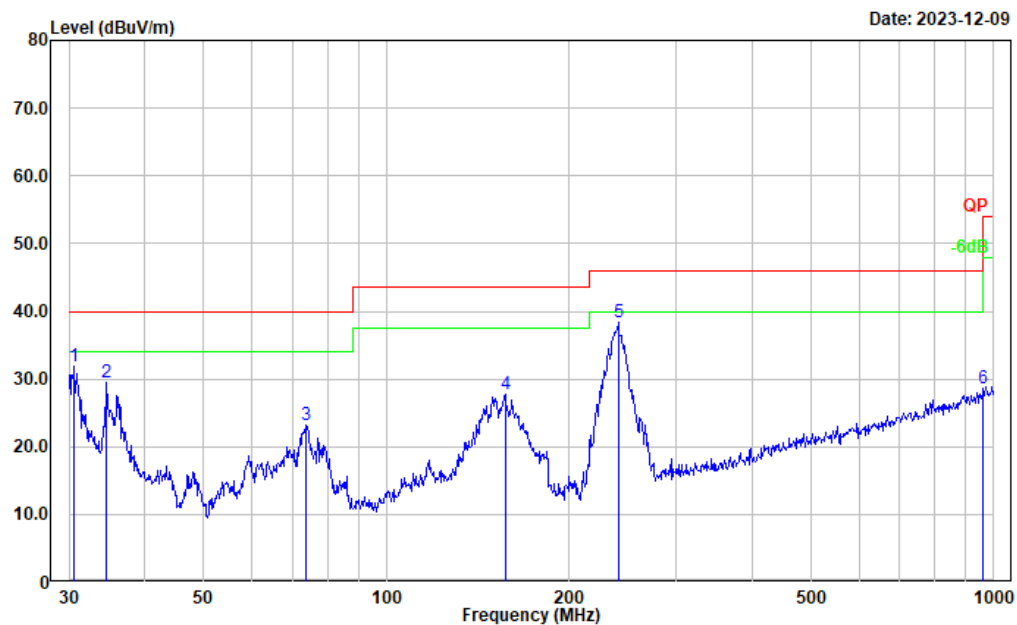
High Channel:

Project No.: CR231166663-RF
Tester: Jeff Luo
Polarization: horizontal
Note: Transmitting(P220 5G WIFI)



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	30.000	27.14	-3.87	23.27	40.00	16.73	Peak
2	150.011	42.83	-12.19	30.64	43.50	12.86	Peak
3	238.310	46.36	-12.88	33.48	46.00	12.52	QP
4	308.913	42.58	-10.22	32.36	46.00	13.64	Peak
5	721.726	30.09	-2.74	27.35	46.00	18.65	Peak
6	845.088	28.65	-0.68	27.97	46.00	18.03	Peak

Project No.: CR231166663-RF
Tester: Jeff Luo
Polarization: vertical
Note: Transmitting(P220 5G WIFI)



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.638	36.08	-4.24	31.84	40.00	8.16	Peak
2	34.639	36.61	-7.23	29.38	40.00	10.62	Peak
3	73.876	40.32	-17.17	23.15	40.00	16.85	Peak
4	157.007	39.69	-11.87	27.82	43.50	15.68	Peak
5	240.830	51.10	-12.82	38.28	46.00	7.72	Peak
6	962.162	27.45	1.09	28.54	54.00	25.46	Peak

3) 1GHz-40GHz:**5150-5250MHz:****802.11a Mode:**

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel:				5180	MHz		
5150.000	59.39	PK	H	11.67	71.06	74.00	2.94
5150.000	40.36	AV	H	11.67	52.03	54.00	1.97
5150.000	57.14	PK	V	11.67	68.81	74.00	5.19
5150.000	38.52	AV	V	11.67	50.19	54.00	3.81
10360.000	35.24	PK	H	20.47	55.71	68.20	12.49
10360.000	34.58	PK	V	20.47	55.05	68.20	13.15
15540.000	35.19	PK	H	24.62	59.81	74.00	14.19
15540.000	23.64	AV	H	24.62	48.26	54.00	5.74
15540.000	35.27	PK	V	24.62	59.89	74.00	14.11
15540.000	23.32	AV	V	24.62	47.94	54.00	6.06
Middle Channel:				5200	MHz		
10400.000	34.46	PK	H	20.54	55.00	68.20	13.20
10400.000	34.25	PK	V	20.54	54.79	68.20	13.41
15600.000	37.39	PK	H	24.71	62.10	74.00	11.90
15600.000	25.41	AV	H	24.71	50.12	54.00	3.88
15600.000	37.23	PK	V	24.71	61.94	74.00	12.06
15600.000	25.46	AV	V	24.71	50.17	54.00	3.83
High Channel:				5240	MHz		
5350.000	45.12	PK	H	11.94	57.06	74.00	16.94
5350.000	31.02	AV	H	11.94	42.96	54.00	11.04
5350.000	44.58	PK	V	11.94	56.52	74.00	17.48
5350.000	30.66	AV	V	11.94	42.60	54.00	11.40
10480.000	35.20	PK	H	20.42	55.62	68.20	12.58
10480.000	34.63	PK	V	20.42	55.05	68.20	13.15
15720.000	38.24	PK	H	24.82	63.06	74.00	10.94
15720.000	26.35	AV	H	24.82	51.17	54.00	2.83
15720.000	38.11	PK	V	24.82	62.93	74.00	11.07
15720.000	26.47	AV	V	24.82	51.29	54.00	2.71

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: 5180 MHz							
5150.000	60.21	PK	H	11.67	71.88	74.00	2.12
5150.000	39.32	AV	H	11.67	50.99	54.00	3.01
5150.000	57.42	PK	V	11.67	69.09	74.00	4.91
5150.000	36.89	AV	V	11.67	48.56	54.00	5.44
10360.000	35.01	PK	H	20.47	55.48	68.20	12.72
10360.000	34.68	PK	V	20.47	55.15	68.20	13.05
15540.000	35.05	PK	H	24.62	59.67	74.00	14.33
15540.000	23.34	AV	H	24.62	47.96	54.00	6.04
15540.000	34.89	PK	V	24.62	59.51	74.00	14.49
15540.000	22.77	AV	V	24.62	47.39	54.00	6.61
Middle Channel: 5200 MHz							
10400.000	33.94	PK	H	20.54	54.48	68.20	13.72
10400.000	34.10	PK	V	20.54	54.64	68.20	13.56
15600.000	36.81	PK	H	24.71	61.52	74.00	12.48
15600.000	24.53	AV	H	24.71	49.24	54.00	4.76
15600.000	35.78	PK	V	24.71	60.49	74.00	13.51
15600.000	23.69	AV	V	24.71	48.40	54.00	5.60
High Channel: 5240 MHz							
5350.000	45.47	PK	H	11.94	57.41	74.00	16.59
5350.000	31.20	AV	H	11.94	43.14	54.00	10.86
5350.000	44.89	PK	V	11.94	56.83	74.00	17.17
5350.000	30.66	AV	V	11.94	42.60	54.00	11.40
10480.000	34.02	PK	H	20.42	54.44	68.20	13.76
10480.000	34.22	PK	V	20.42	54.64	68.20	13.56
15720.000	35.53	PK	H	24.82	60.35	74.00	13.65
15720.000	23.64	AV	H	24.82	48.46	54.00	5.54
15720.000	35.12	PK	V	24.82	59.94	74.00	14.06
15720.000	23.07	AV	V	24.82	47.89	54.00	6.11

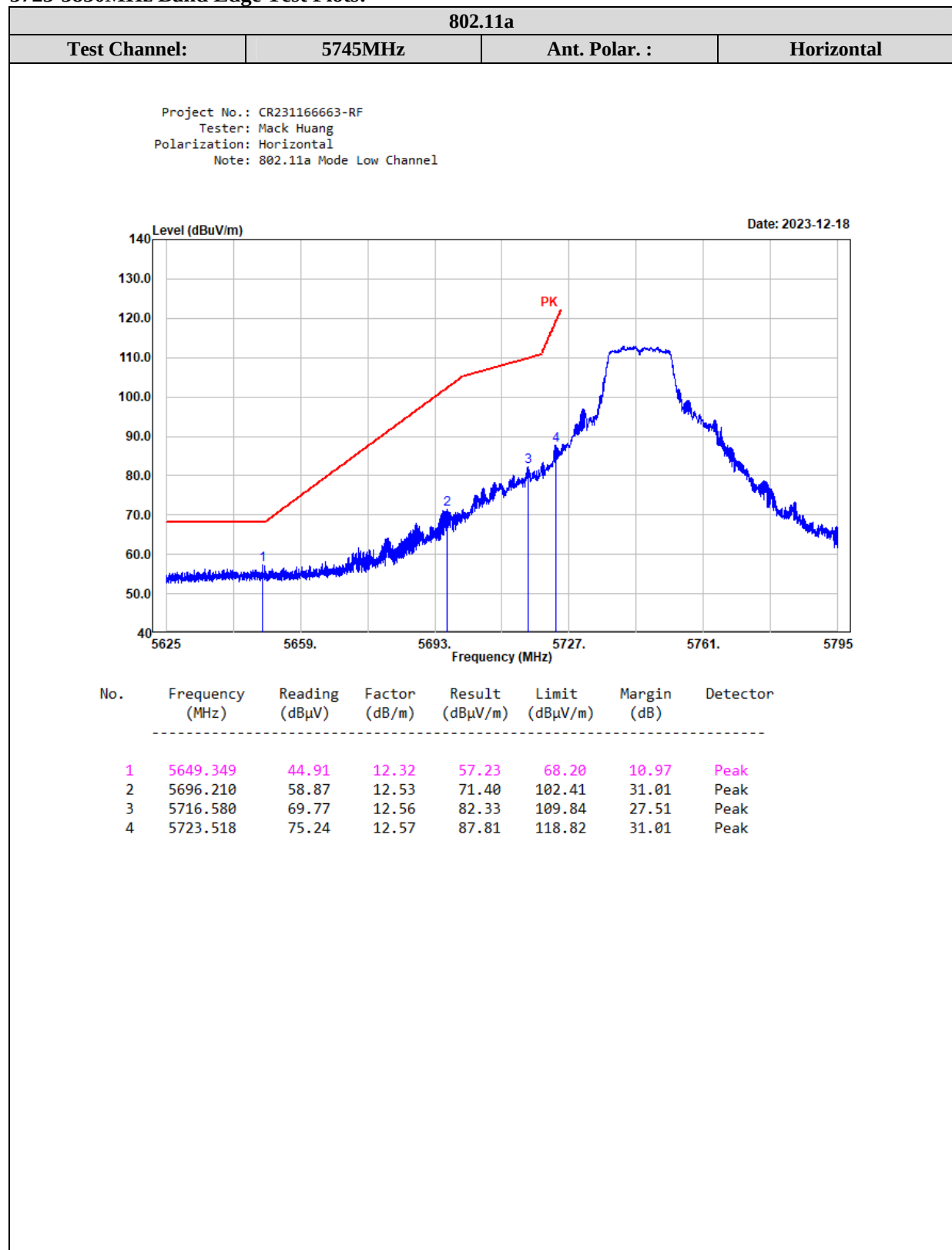
5725-5850MHz**802.11a Mode:**

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel:				5745	MHz		
11490.000	34.26	PK	H	21.49	55.75	74.00	18.25
11490.000	22.21	AV	H	21.49	43.70	54.00	10.30
11490.000	34.16	PK	V	21.49	55.65	74.00	18.35
11490.000	22.08	AV	V	21.49	43.57	54.00	10.43
17235.000	34.50	PK	H	28.71	63.21	68.20	4.99
17235.000	34.34	PK	V	28.71	63.05	68.20	5.15
Middle Channel:				5785	MHz		
11570.000	34.36	PK	H	21.71	56.07	74.00	17.93
11570.000	22.74	AV	H	21.71	44.45	54.00	9.55
11570.000	34.26	PK	V	21.71	55.97	74.00	18.03
11570.000	22.14	AV	V	21.71	43.85	54.00	10.15
17355.000	34.38	PK	H	29.35	63.73	68.20	4.47
17355.000	34.29	PK	V	29.35	63.64	68.20	4.56
High Channel:				5825	MHz		
11650.000	35.65	PK	H	22.04	57.69	74.00	16.31
11650.000	23.34	AV	H	22.04	45.38	54.00	8.62
11650.000	35.11	PK	V	22.04	57.15	74.00	16.85
11650.000	23.07	AV	V	22.04	45.11	54.00	8.89
17475.000	34.91	PK	H	29.89	64.80	68.20	3.40
17475.000	34.45	PK	V	29.89	64.34	68.20	3.86

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:				5745	MHz		
11490.000	34.19	PK	H	21.49	55.68	74.00	18.32
11490.000	22.34	AV	H	21.49	43.83	54.00	10.17
11490.000	34.10	PK	V	21.49	55.59	74.00	18.41
11490.000	22.06	AV	V	21.49	43.55	54.00	10.45
17235.000	34.44	PK	H	28.71	63.15	68.20	5.05
17235.000	34.28	PK	V	28.71	62.99	68.20	5.21
Middle Channel:				5785	MHz		
11570.000	35.12	PK	H	21.71	56.83	74.00	17.17
11570.000	23.03	AV	H	21.71	44.74	54.00	9.26
11570.000	34.55	PK	V	21.71	56.26	74.00	17.74
11570.000	22.36	AV	V	21.71	44.07	54.00	9.93
17355.000	33.98	PK	H	29.35	63.33	68.20	4.87
17355.000	33.57	PK	V	29.35	62.92	68.20	5.28
High Channel:				5825	MHz		
11650.000	35.37	PK	H	22.04	57.41	74.00	16.59
11650.000	23.34	AV	H	22.04	45.38	54.00	8.62
11650.000	35.10	PK	V	22.04	57.14	74.00	16.86
11650.000	23.06	AV	V	22.04	45.10	54.00	8.90
17475.000	34.70	PK	H	29.89	64.59	68.20	3.61
17475.000	34.38	PK	V	29.89	64.27	68.20	3.93

5725-5850MHz Band Edge Test Plots:



802.11 a

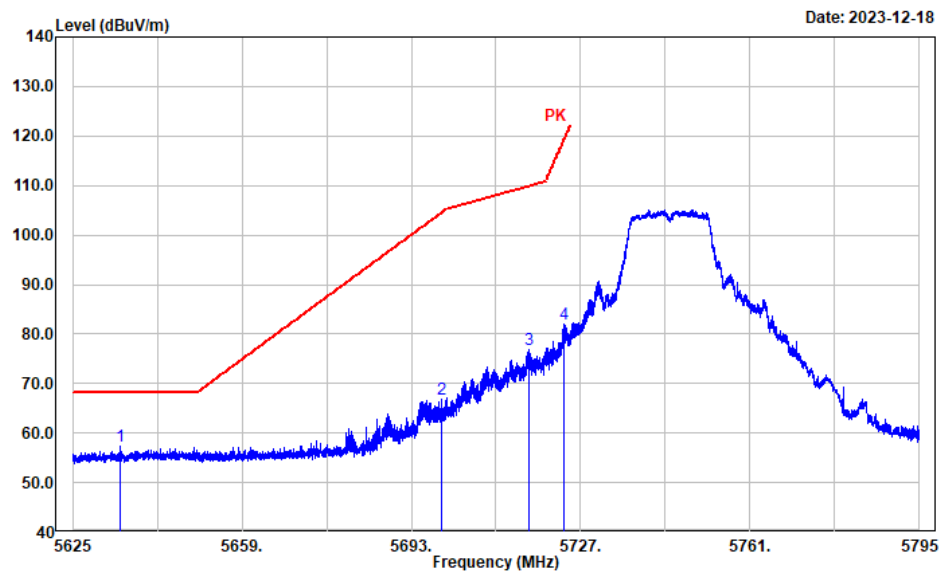
Test Channel:

5745MHz

Ant. Polar. :

Vertical

Project No.: CR231166663-RF
Tester: Mack Huang
Polarization: vertical
Note: 802.11a Mode Low Channel



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	5634.488	45.04	12.24	57.28	68.20	10.92	Peak
2	5699.101	54.35	12.55	66.90	104.54	37.64	Peak
3	5716.546	64.28	12.56	76.84	109.83	32.99	Peak
4	5723.518	69.41	12.57	81.98	118.82	36.84	Peak

802.11a

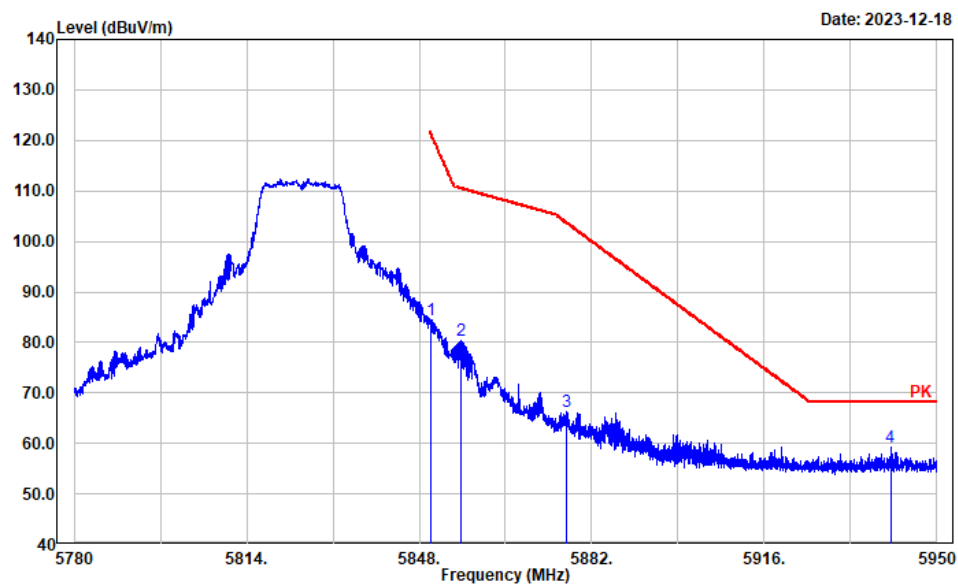
Test Channel:

5825MHz

Ant. Polar. :

Horizontal

Project No.: CR231166663-RF
Tester: Mack Huang
Polarization: Horizontal
Note: 802.11a Mode High Channel



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5850.258	71.66	12.77	84.43	121.61	37.18	Peak
2	5856.277	67.47	12.81	80.28	110.44	30.16	Peak
3	5876.919	53.36	12.90	66.26	103.77	37.51	Peak
4	5940.852	46.11	13.04	59.15	68.20	9.05	Peak

802.11 a

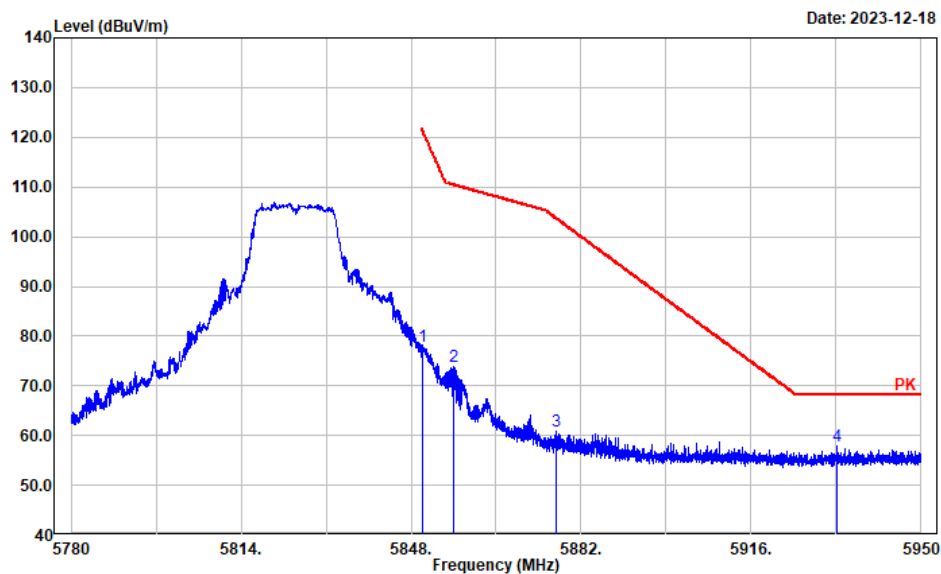
Test Channel:

5825MHz

Ant. Polar. :

Vertical

Project No.: CR231166663-RF
Tester: Mack Huang
Polarization: vertical
Note: 802.11a Mode High Channel



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	5850.292	65.22	12.77	77.99	121.53	43.54	Peak
2	5856.515	61.12	12.81	73.93	110.38	36.45	Peak
3	5876.919	47.98	12.90	60.88	103.77	42.89	Peak
4	5933.269	44.80	13.03	57.83	68.20	10.37	Peak

802.11n ht20

Test Channel:

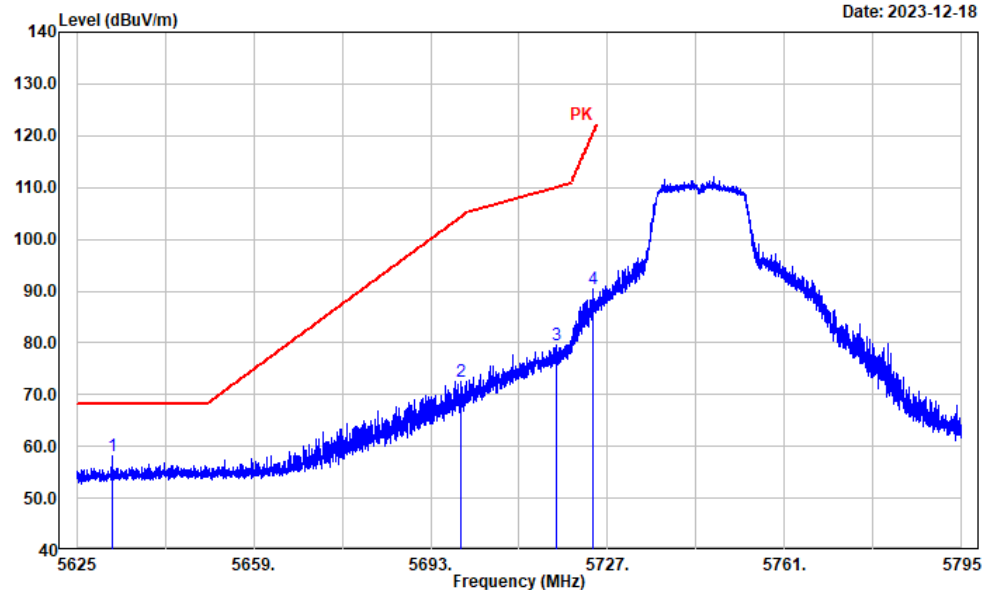
5745MHz

Ant. Polar. :

Horizontal

Project No.: CR231166663-RF
Tester: Mack Huang
Polarization: Horizontal
Note: 802.11n ht20 Mode Low Channel

Date: 2023-12-18



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	5631.801	45.87	12.22	58.09	68.20	10.11	Peak
2	5698.761	59.87	12.55	72.42	104.29	31.87	Peak
3	5717.227	67.03	12.57	79.60	110.02	30.42	Peak
4	5724.164	77.75	12.57	90.32	120.29	29.97	Peak

802.11n ht20

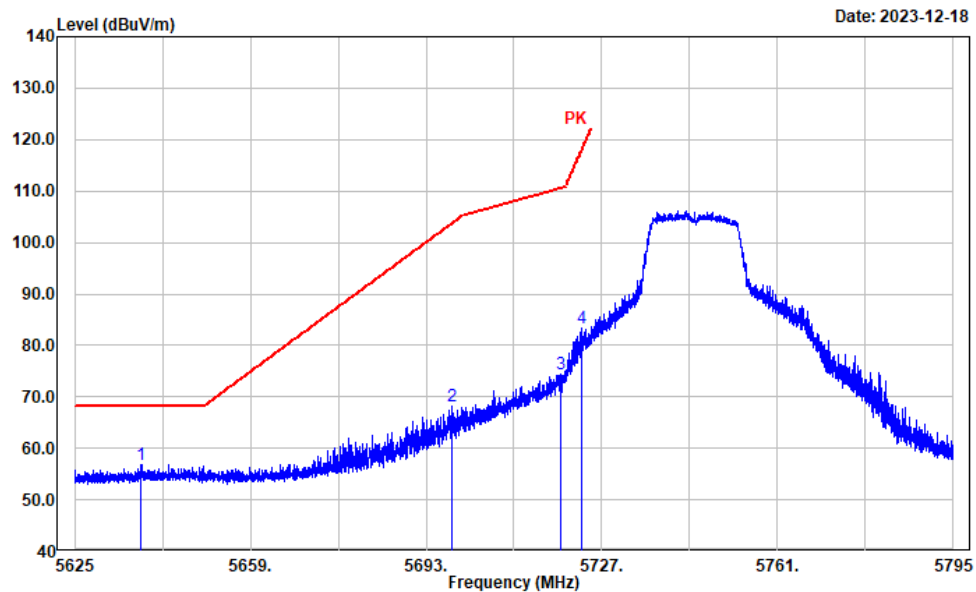
Test Channel:

5745MHz

Ant. Polar. :

Vertical

Project No.: CR231166663-RF
Tester: Mack Huang
Polarization: Vertical
Note: 802.11n ht20 Mode Low Channel



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5637.787	44.56	12.26	56.82	68.20	11.38	Peak
2	5698.081	55.65	12.54	68.19	103.79	35.60	Peak
3	5718.961	61.94	12.57	74.51	110.51	36.00	Peak
4	5723.144	70.71	12.57	83.28	117.97	34.69	Peak

802.11n ht20

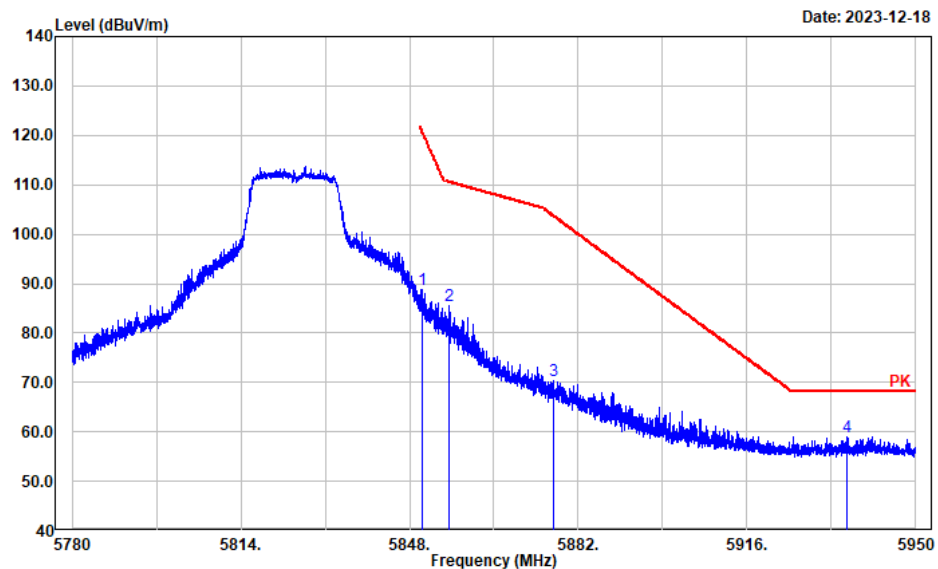
Test Channel:

5825MHz

Ant. Polar. :

Horizontal

Project No.: CR231166663-RF
Tester: Mack Huang
Polarization: Horizontal
Note: 802.11n ht20 Mode High Channel



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5850.496	76.10	12.77	88.87	121.07	32.20	Peak
2	5855.903	72.66	12.80	85.46	110.55	25.09	Peak
3	5876.954	57.35	12.90	70.25	103.75	33.50	Peak
4	5936.227	46.07	13.03	59.10	68.20	9.10	Peak

802.11n ht20

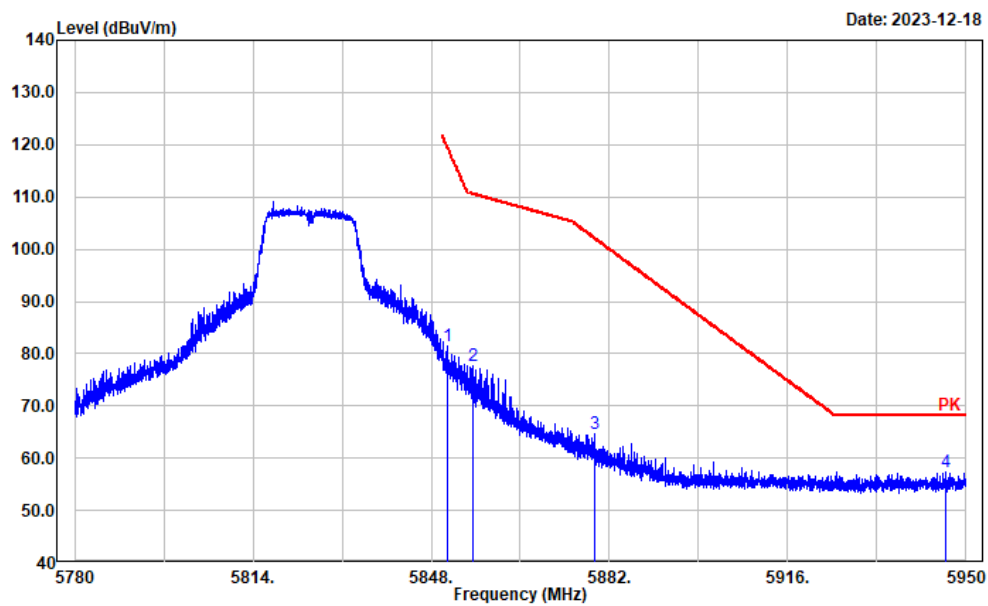
Test Channel:

5825MHz

Ant. Polar. :

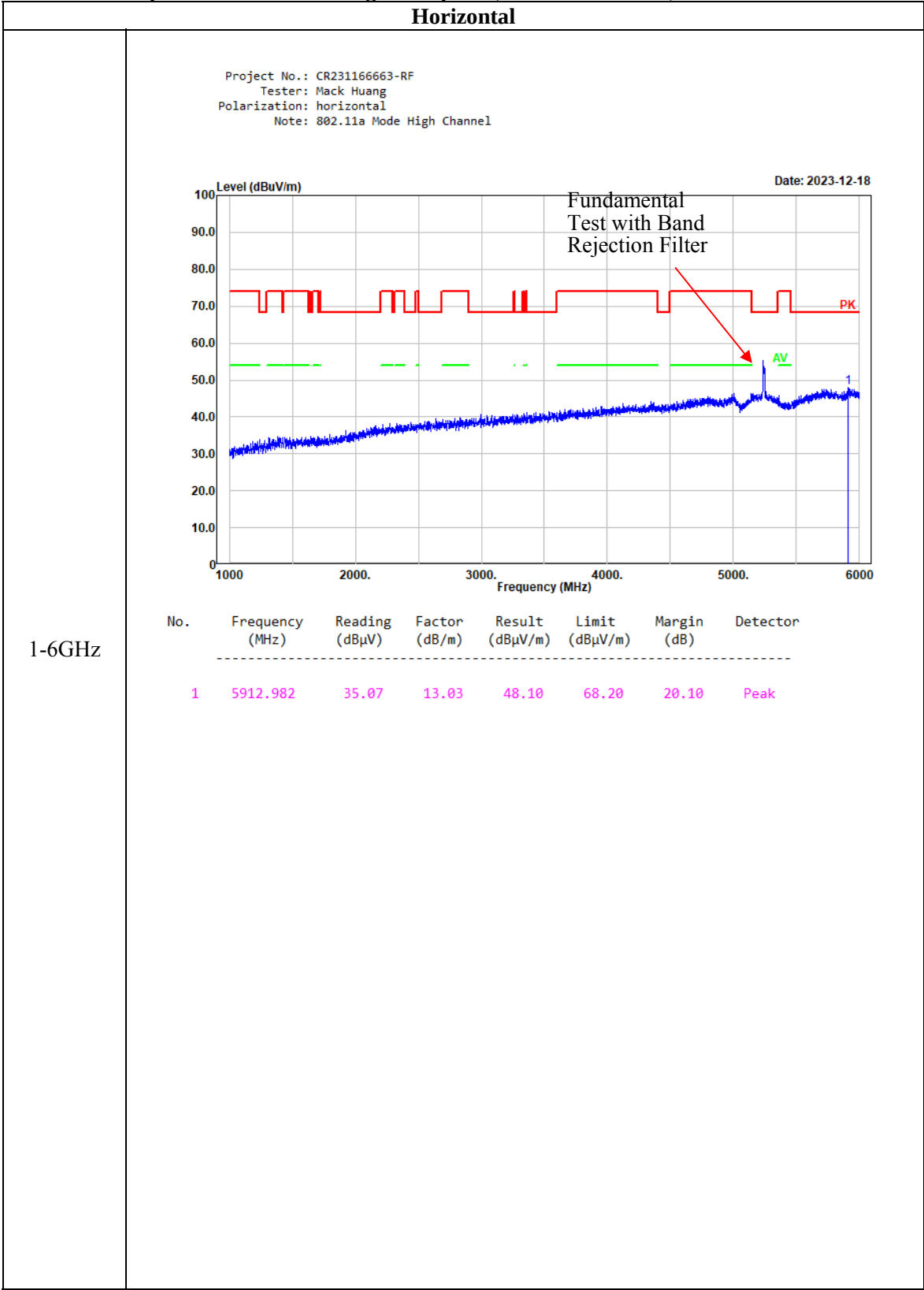
Vertical

Project No.: CR231166663-RF
Tester: Mack Huang
Polarization: Vertical
Note: 802.11n ht20 Mode High Channel



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5851.006	68.57	12.77	81.34	119.90	38.56	Peak
2	5855.937	64.76	12.80	77.56	110.54	32.98	Peak
3	5879.164	51.66	12.92	64.58	102.11	37.53	Peak
4	5946.089	44.21	13.03	57.24	68.20	10.96	Peak

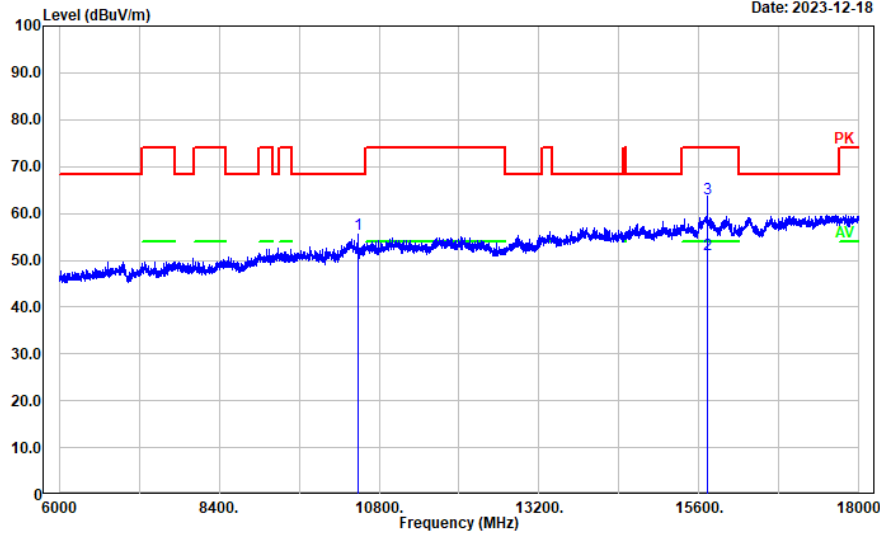
Worst radiation spurious emissions margin test plots (802.11a 5240MHz)



Horizontal

Project No.: CR231166663-RF
Tester: Mack Huang
Polarization: horizontal
Note: 802.11a Mode High Channel

Date: 2023-12-18

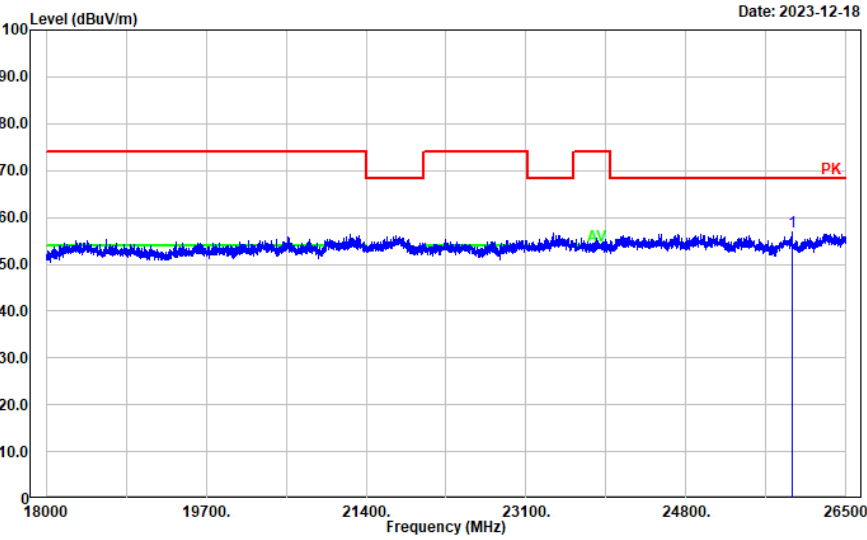


6-18GHz

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	10480.000	35.20	20.42	55.62	68.20	12.58	Peak
2	15720.000	26.35	24.82	51.17	54.00	2.83	Average
3	15720.000	38.24	24.82	63.06	74.00	10.94	Peak

Horizontal

Project No.: CR231166663-RF
Tester: Mack Huang
Polarization: Horizontal
Note: 802.11a Mode High Channel

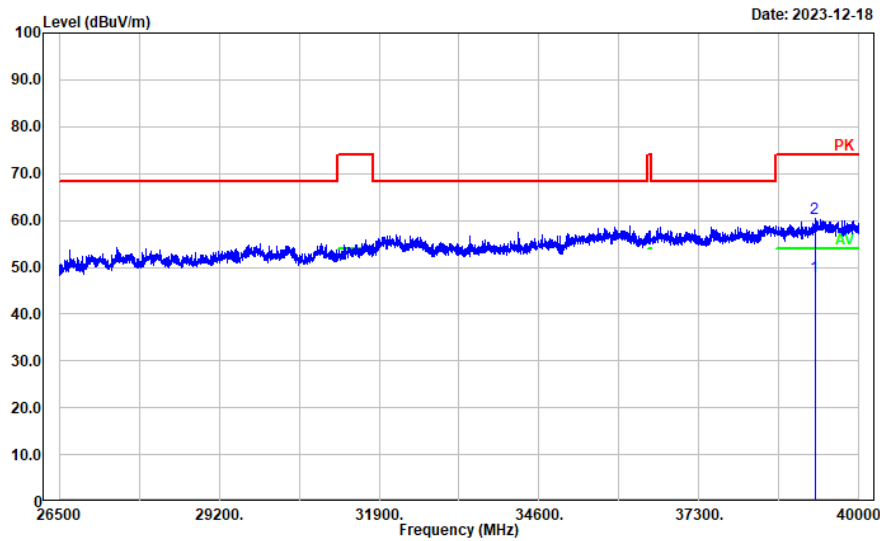


18-26.5GHz

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	25921.880	50.69	6.17	56.86	68.20	11.34	Peak

Horizontal

Project No.: CR231166663-RF
Tester: Mack Huang
Polarization: Horizontal
Note: 802.11a Mode High Channel

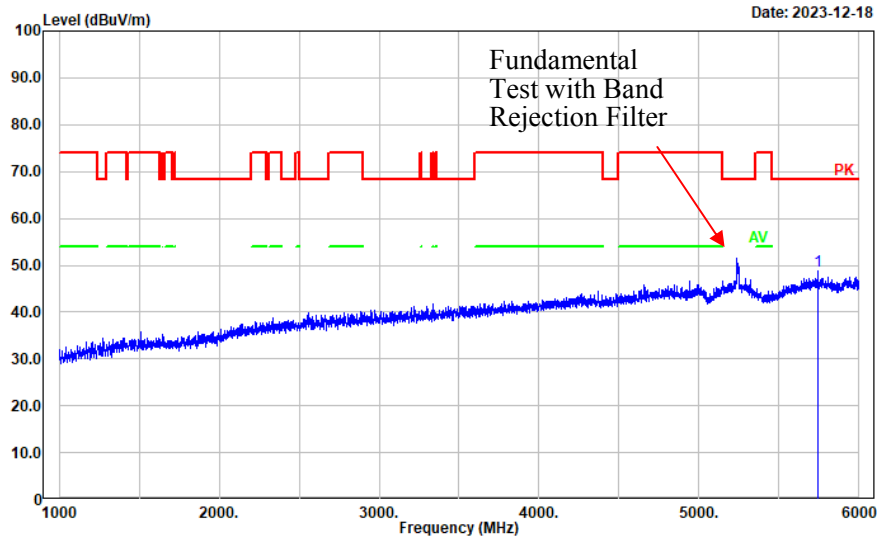


26.5-40GHz

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	39251.950	37.71	10.18	47.89	54.00	6.11	Average
2	39251.950	50.19	10.18	60.37	74.00	13.63	Peak

Vertical

Project No.: CR231166663-RF
Tester: Mack Huang
Polarization: vertical
Note: 802.11a Mode High Channel

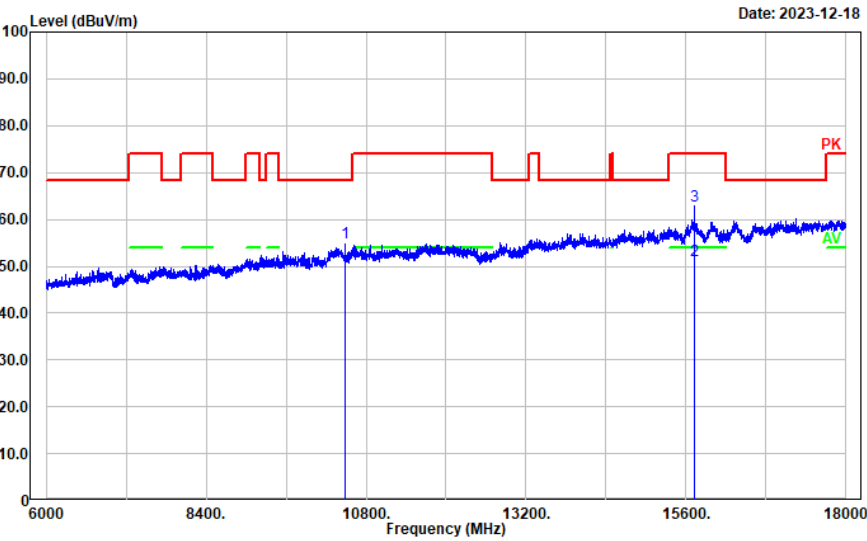


1-6GHz

No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	5742.949	36.08	12.59	48.67	68.20	19.53	Peak

Vertical

Project No.: CR231166663-RF
Tester: Mack Huang
Polarization: vertical
Note: 802.11a Mode High Channel

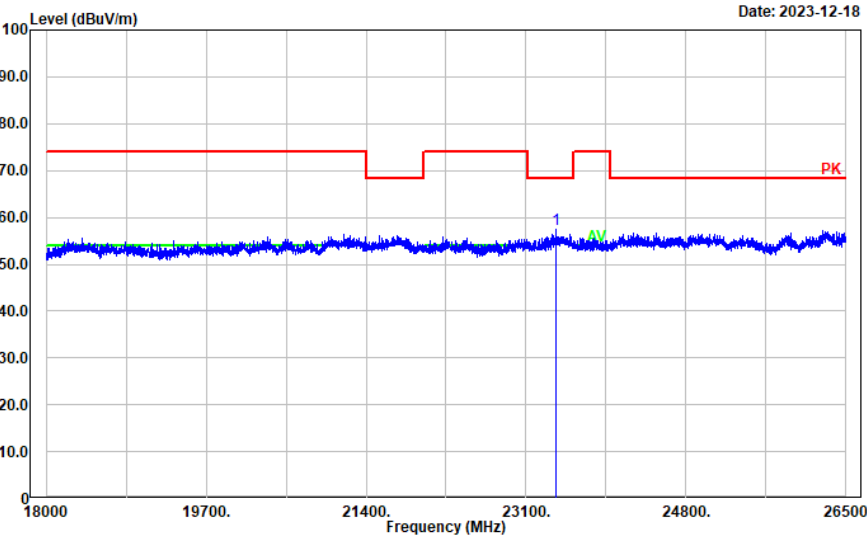


6-18GHz

No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	10480.000	34.63	20.42	55.05	68.20	13.15	Peak
2	15720.000	26.47	24.82	51.29	54.00	2.71	Average
3	15720.000	38.11	24.82	62.93	74.00	11.07	Peak

Vertical

Project No.: CR231166663-RF
Tester: Mack Huang
Polarization: vertical
Note: 802.11a Mode High Channel

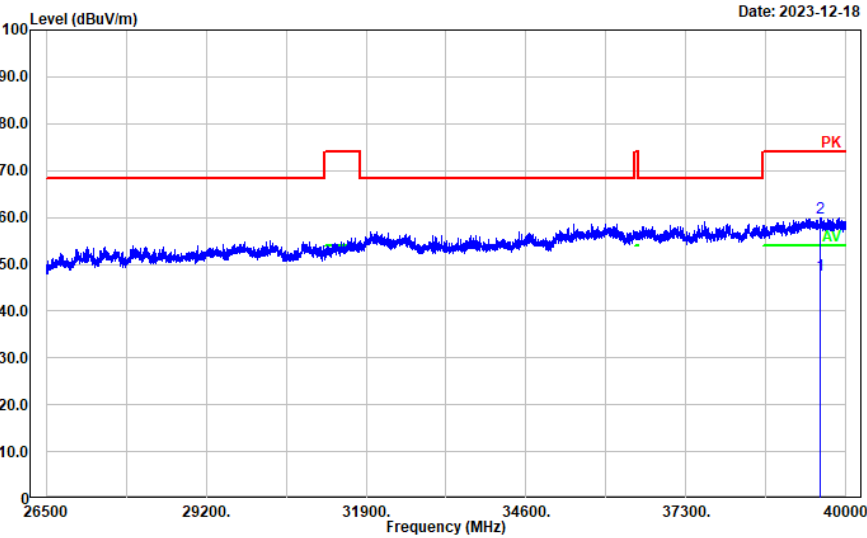


18-26.5GHz

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	23422.380	52.17	5.39	57.56	68.20	10.64	Peak

Vertical

Project No.: CR231166663-RF
Tester: Mack Huang
Polarization: Vertical
Note: 802.11a Mode High Channel



26.5-40GHz

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	39565.210	37.88	9.90	47.78	54.00	6.22	Average
2	39565.210	50.04	9.90	59.94	74.00	14.06	Peak

4.3 Emission Bandwidth:

Serial Number:	2DJE-1	Test Date:	2023/11/22
Test Site:	RF	Test Mode:	Transmitting
Tester:	Lingling Li	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	27.6	Relative Humidity: (%)	59	ATM Pressure: (kPa)	101
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSU26	100147	2023/3/31	2024/3/30
zhuoxiang	Coaxial Cable	SMA-178	211002	Each time	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:

5150-5250 MHz:

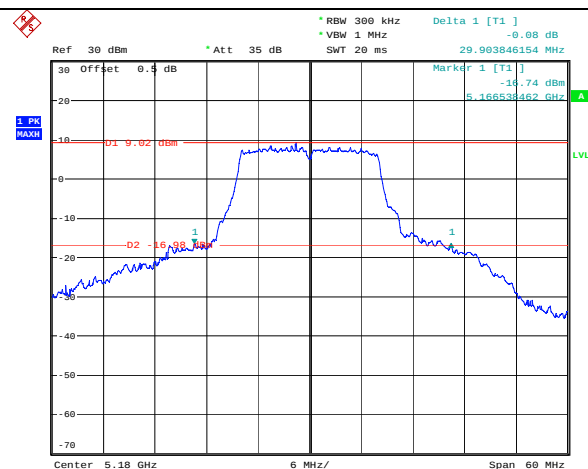
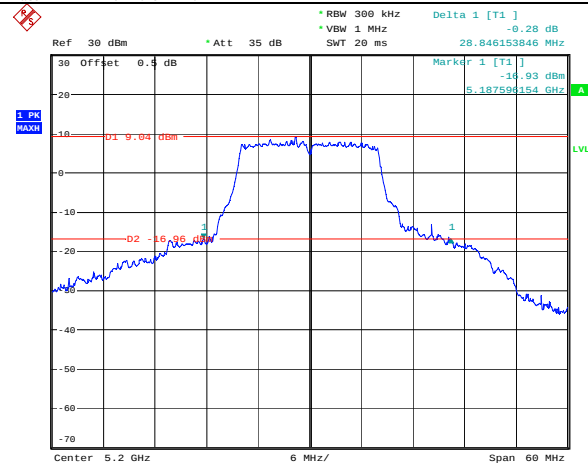
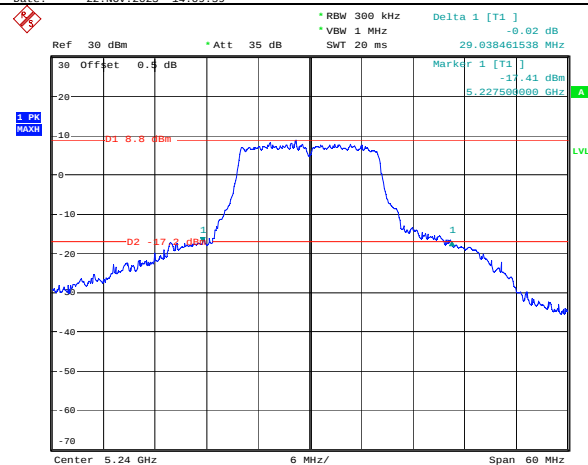
Test Modes	Test Frequency (MHz)	26 dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
802.11a	5180	29.904	17.949
	5200	28.846	18.013
	5240	29.038	18.013
802.11n ht20	5180	39.487	18.846
	5200	38.205	19.038
	5240	38.974	19.103
Note: The 99% Occupied Bandwidth have not fall into the band 5250-5350MHz, please refer to the test plots of 99% Occupied Bandwidth.			

5725-5850 MHz:

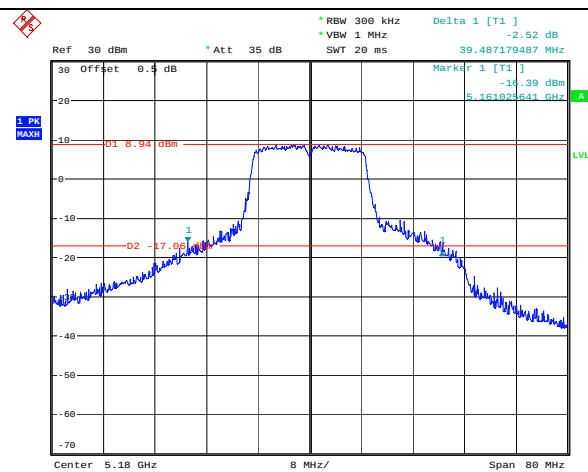
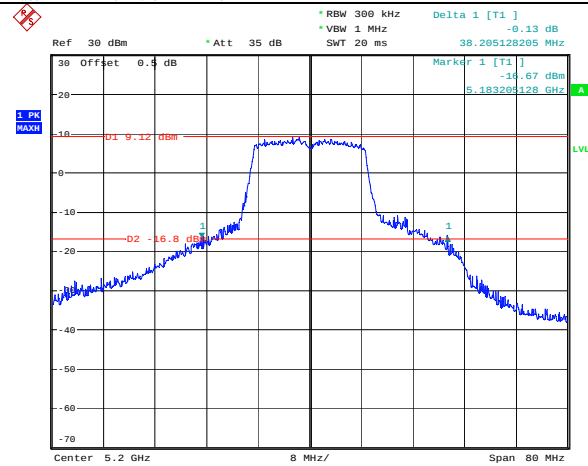
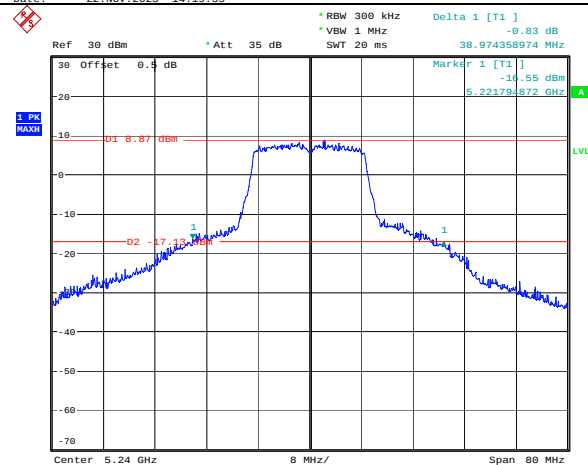
Test Modes	Test Frequency (MHz)	6 dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
802.11a	5745	16.474	21.603
	5785	16.41	20.385
	5825	16.41	20.321
802.11n ht20	5745	17.628	22.756
	5785	17.692	22.179
	5825	17.692	22.756
Note: 1. 6dB Emission Bandwidth Limit: ≥ 0.5 MHz 2. The 99% Occupied Bandwidth have not fall into the band 5470-5725MHz, please refer to the test plots of 99% Occupied Bandwidth.			

5150-5250 MHz:

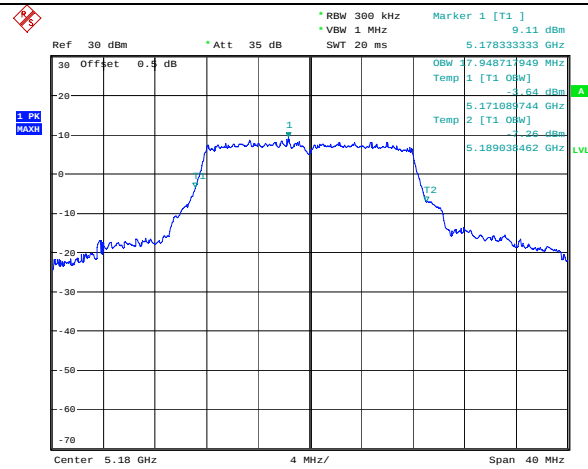
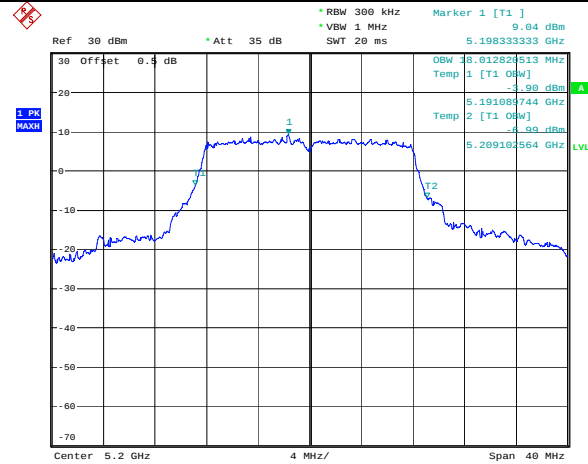
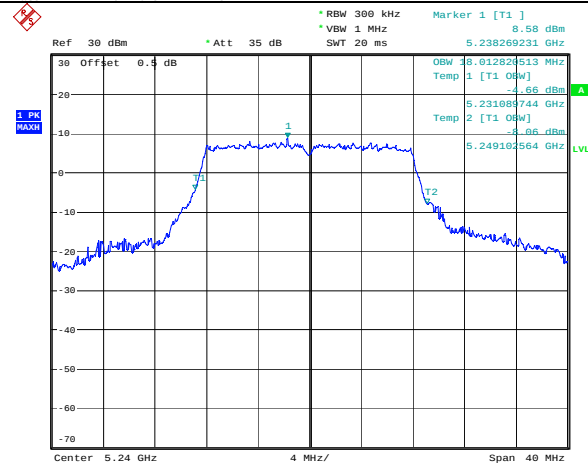
26dB Emission Bandwidth

802.11a
Lowest ChannelComment: ProjectNo.:CR231166663-RF Tester:LingLing Li
Date: 22.NOV.2023 14:07:41802.11a
Middle ChannelComment: ProjectNo.:CR231166663-RF Tester:LingLing Li
Date: 22.NOV.2023 14:09:59802.11a
Highest ChannelComment: ProjectNo.:CR231166663-RF Tester:LingLing Li
Date: 22.NOV.2023 14:12:56

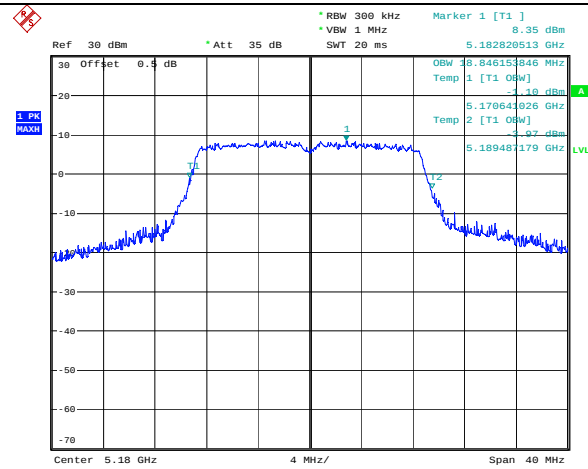
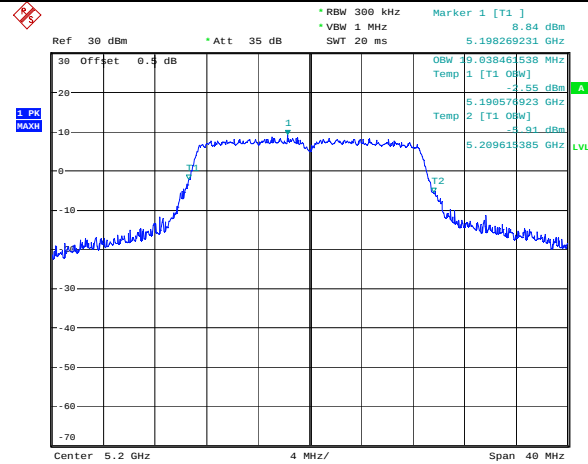
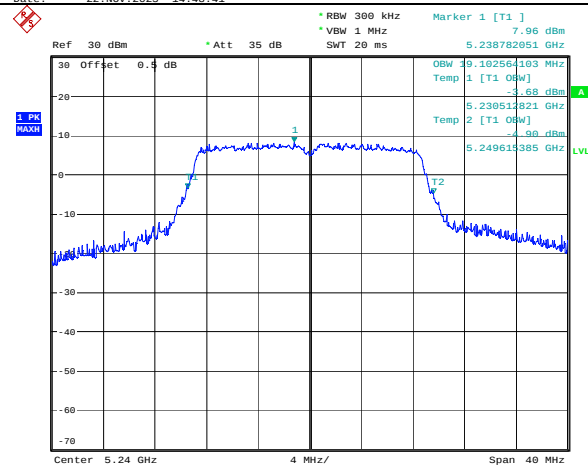
26dB Emission Bandwidth

802.11n ht20
Lowest ChannelComment: ProjectNo.:CR231166663-RF Tester:LingLing Li
Date: 22.NOV.2023 14:17:43802.11n ht20
Middle ChannelComment: ProjectNo.:CR231166663-RF Tester:LingLing Li
Date: 22.NOV.2023 14:19:35802.11n ht20
Highest ChannelComment: ProjectNo.:CR231166663-RF Tester:LingLing Li
Date: 22.NOV.2023 14:21:40

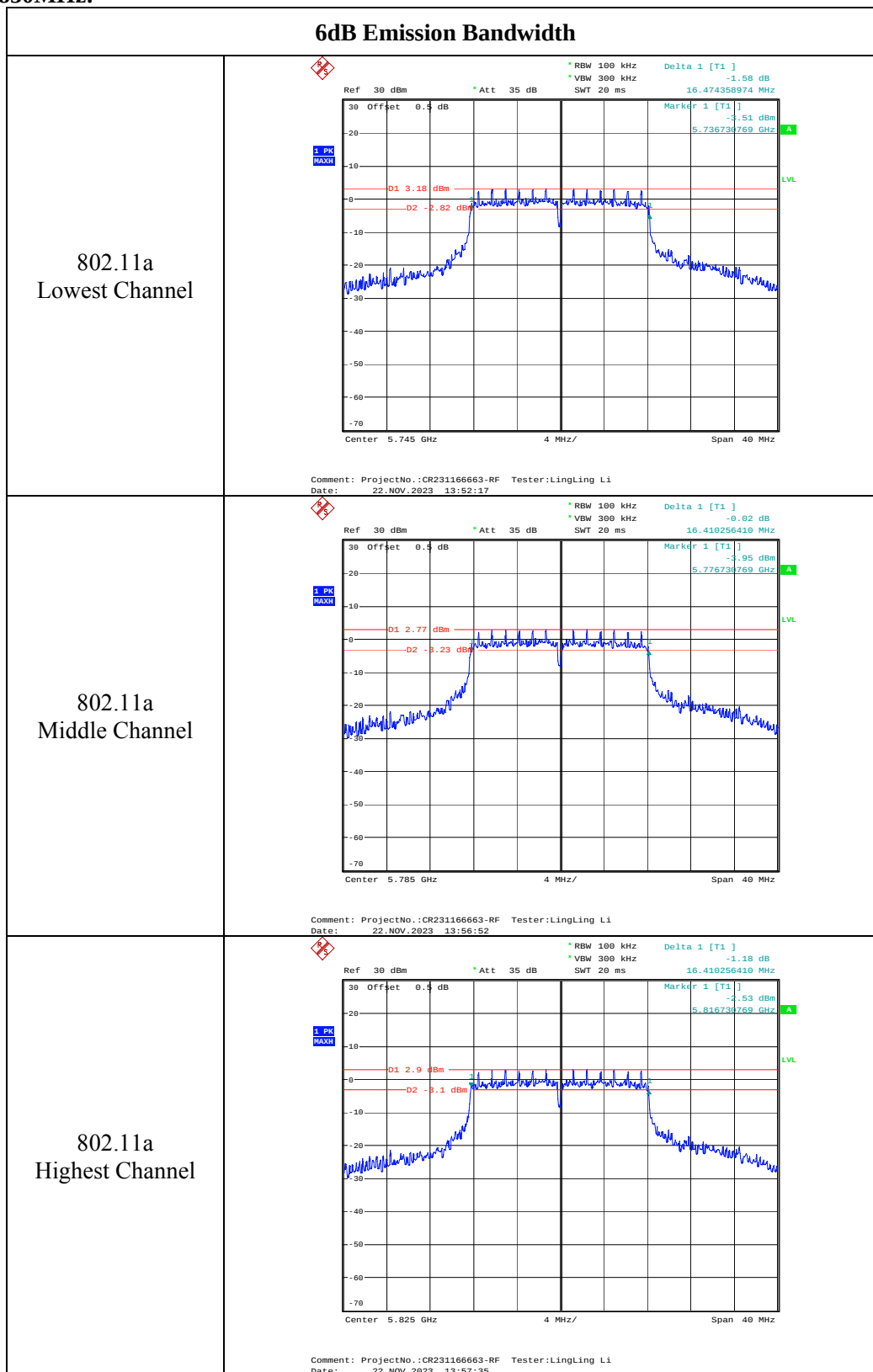
99% Emission Bandwidth

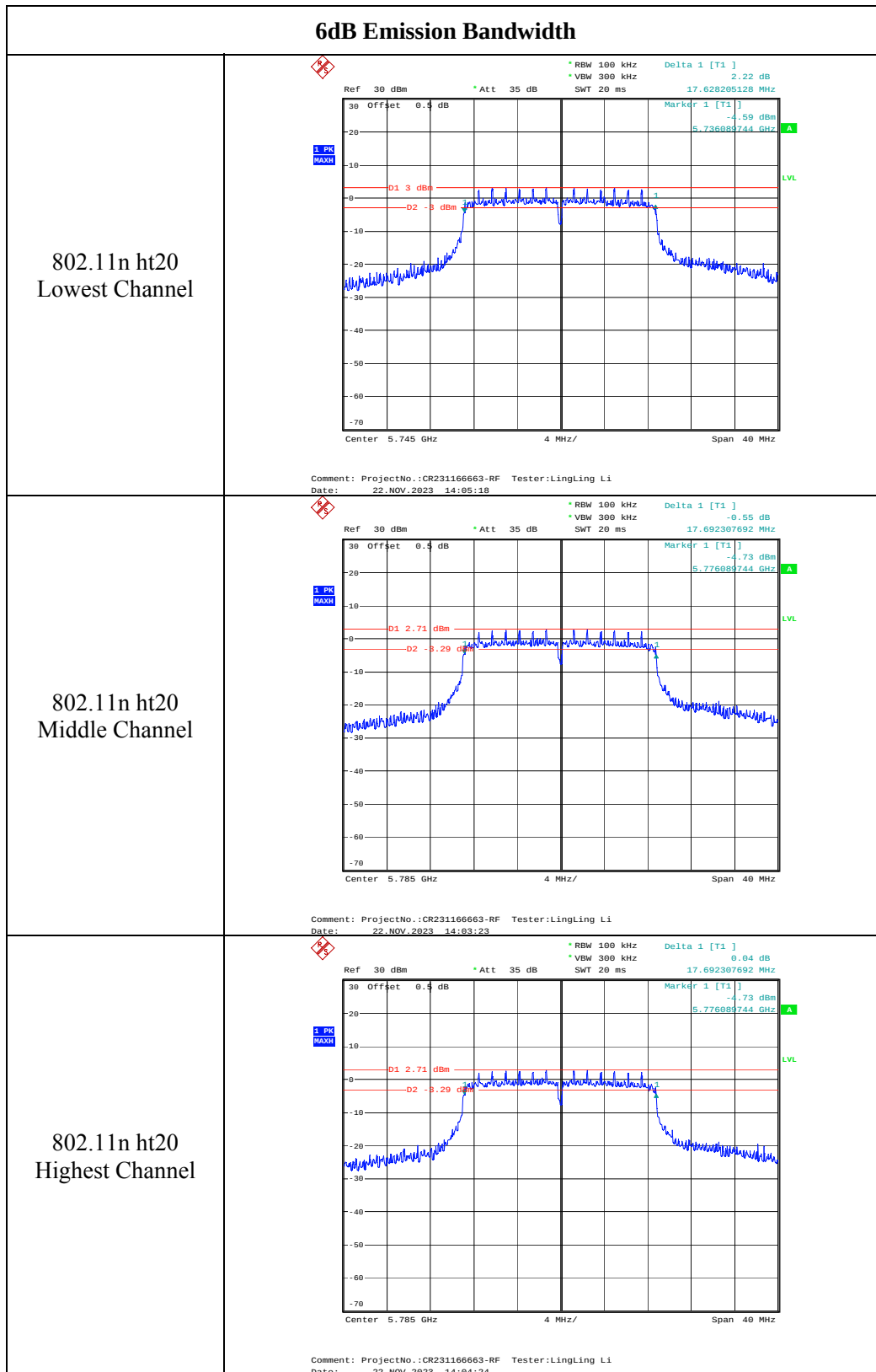
802.11a
Lowest ChannelComment: ProjectNo.:CR23116663-RF Tester:LingLing Li
Date: 22.NOV.2023 14:47:02802.11a
Middle ChannelComment: ProjectNo.:CR23116663-RF Tester:LingLing Li
Date: 22.NOV.2023 14:47:23802.11a
Highest ChannelComment: ProjectNo.:CR23116663-RF Tester:LingLing Li
Date: 22.NOV.2023 14:47:48

99% Emission Bandwidth

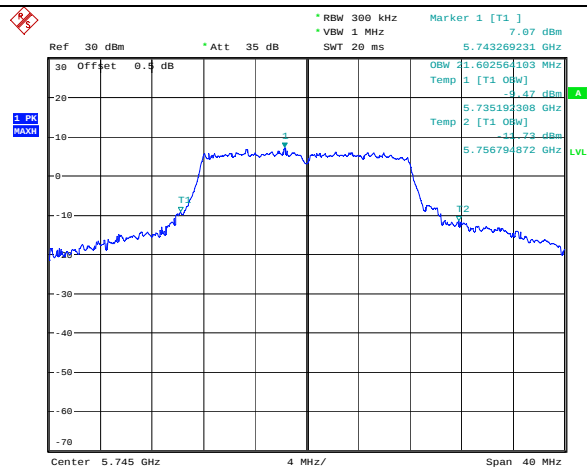
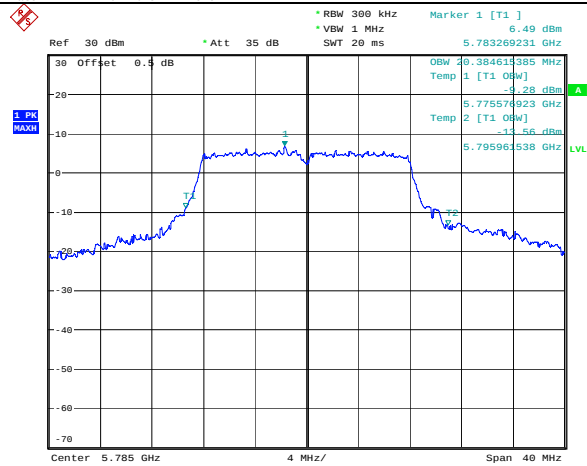
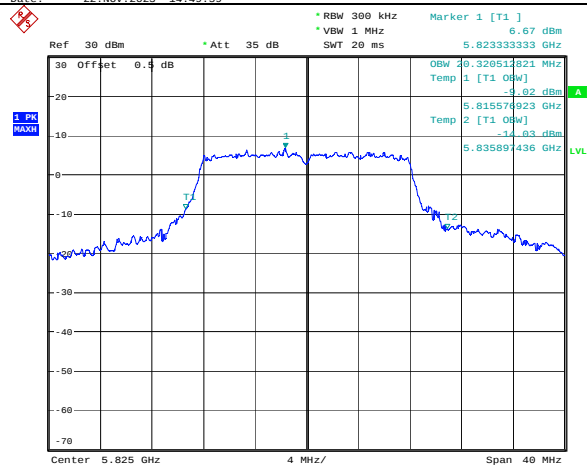
802.11n ht20
Lowest Channel802.11n ht20
Middle Channel802.11n ht20
Highest Channel

5725-5850MHz:

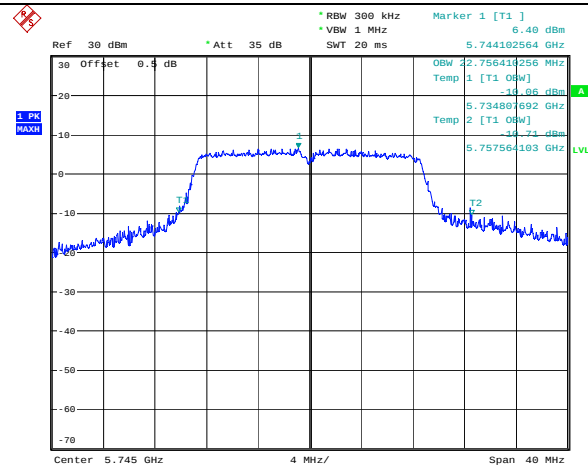
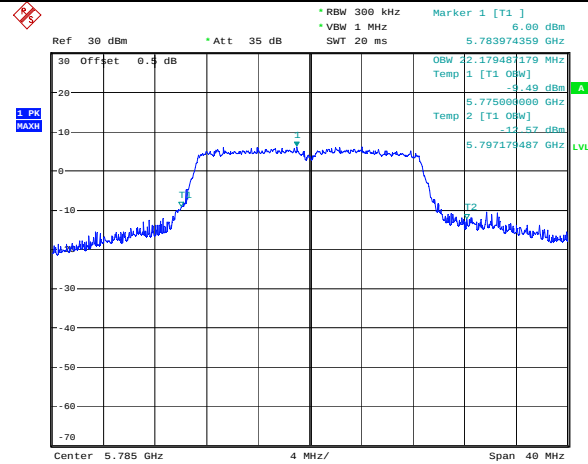
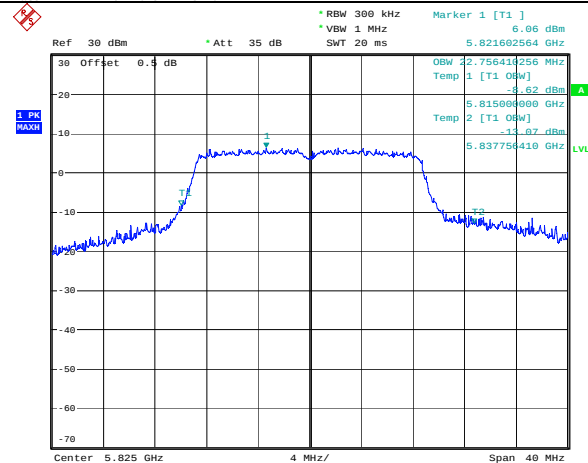




99% Emission Bandwidth

802.11a
Lowest ChannelComment: ProjectNo.:CR23116663-RF Tester:LingLing Li
Date: 22.NOV.2023 14:49:31802.11a
Middle ChannelComment: ProjectNo.:CR23116663-RF Tester:LingLing Li
Date: 22.NOV.2023 14:49:59802.11a
Highest ChannelComment: ProjectNo.:CR23116663-RF Tester:LingLing Li
Date: 22.NOV.2023 14:50:10

99% Emission Bandwidth

802.11n ht20
Lowest ChannelComment: ProjectNo.:CR23116663-RF Tester:LingLing Li
Date: 22.NOV.2023 14:50:41802.11n ht20
Middle ChannelComment: ProjectNo.:CR23116663-RF Tester:LingLing Li
Date: 22.NOV.2023 14:51:04802.11n ht20
Highest ChannelComment: ProjectNo.:CR23116663-RF Tester:LingLing Li
Date: 22.NOV.2023 14:51:31

4.4 Maximum Conducted Output Power:

Serial Number:	2DJE-1	Test Date:	2023/11/22
Test Site:	RF	Test Mode:	Transmitting
Tester:	Lingling Li	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	27.6	Relative Humidity: (%)	59	ATM Pressure: (kPa)	101
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
zhuoxiang	Coaxial Cable	SMA-178	211002	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:

5150-5250 MHz:

Test Modes	Test Frequency (MHz)	Max. Conducted Average Output Power(dBm)	
		Result	FCC Limit
802.11a	5180	13.88	24
	5200	13.74	24
	5240	13.48	24
802.11n ht20	5180	13.78	24
	5200	13.68	24
	5240	13.49	24

Note: The device is a client device.

5725-5850 MHz:

Test Modes	Test Frequency (MHz)	Max. Conducted Average Output Power(dBm)	
		Result	Limit
802.11a	5745	13.43	30
	5785	12.91	30
	5825	12.84	30
802.11n ht20	5745	13.31	30
	5785	12.82	30
	5825	12.75	30

4.5 Maximum power spectral density:

Serial Number:	2DJE-1	Test Date:	2023/11/22
Test Site:	RF	Test Mode:	Transmitting
Tester:	Lingling Li	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	27.6	Relative Humidity: (%)	59	ATM Pressure: (kPa)	101
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSU26	100147	2023/3/31	2024/3/30
zhuoxiang	Coaxial Cable	SMA-178	211002	Each time	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:

5150-5250 MHz:

Test Modes	Test Frequency (MHz)	Maximum Power Spectral Density(dBm/MHz)		
		Reading	Result	FCC Limit
802.11a	5180	5.07	5.30	11
	5200	4.95	5.18	11
	5240	4.71	4.94	11
802.11n ht20	5180	4.85	5.13	11
	5200	4.76	5.04	11
	5240	4.07	4.35	11

Note:

The device is a client device.

Duty cycle <98%, and duty cycle variations are less than $\pm 2\%$, KDB 789033 D02 General UNII Test Procedures New Rules v02r01 Method SA-2 was used.For Duty cycle <98%, and Duty cycle be considered to be constant (variations are less than $\pm 2\%$), the duty cycle factor was added into the result.

5725-5850 MHz:

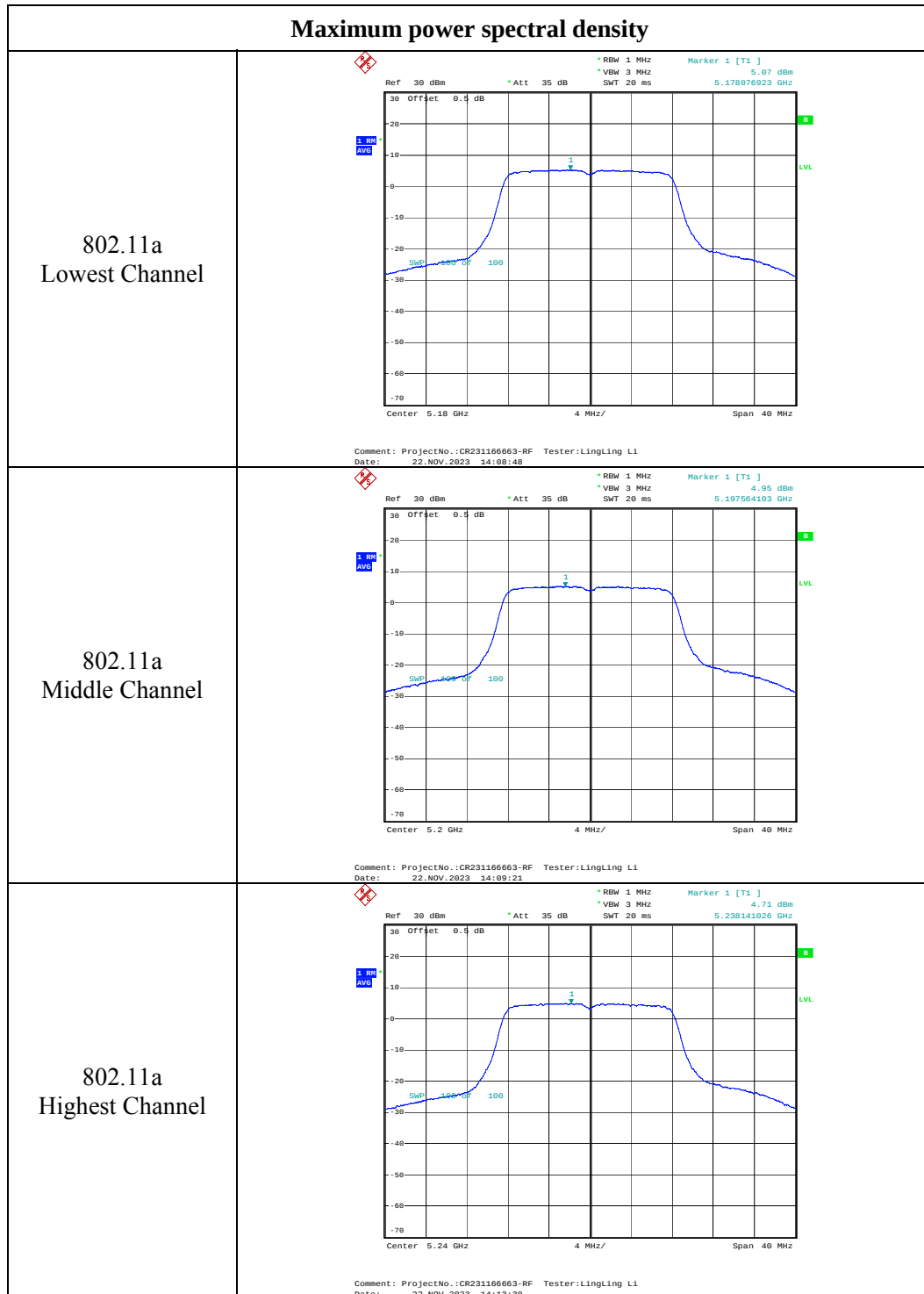
Test Modes	Test Frequency (MHz)	Maximum Power Spectral Density(dBm/500kHz)		
		Reading	Result	Limit
802.11a	5745	-0.22	0.01	30
	5785	-0.79	-0.56	30
	5825	-0.40	-0.17	30
802.11n ht20	5745	-0.72	-0.44	30
	5785	-1.09	-0.81	30
	5825	-0.80	-0.52	30

Note:

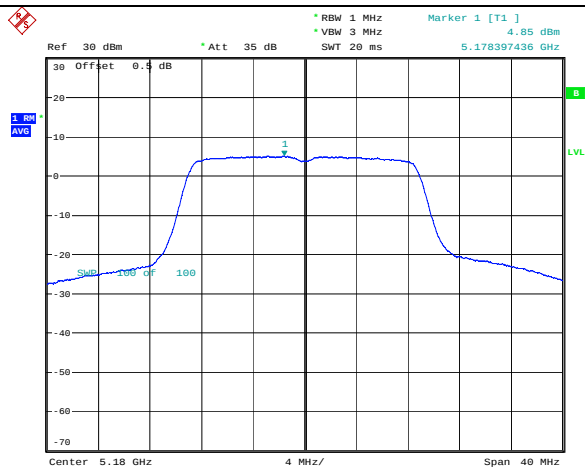
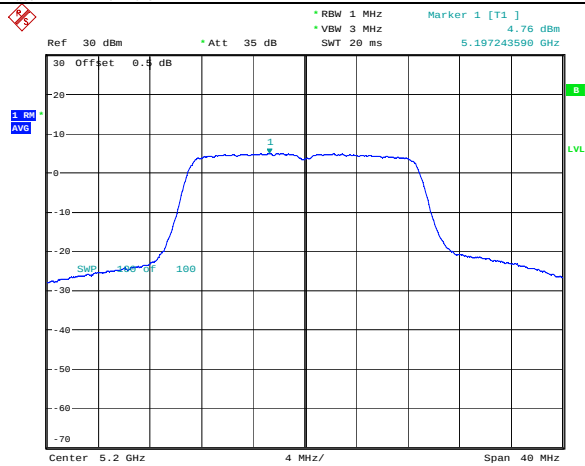
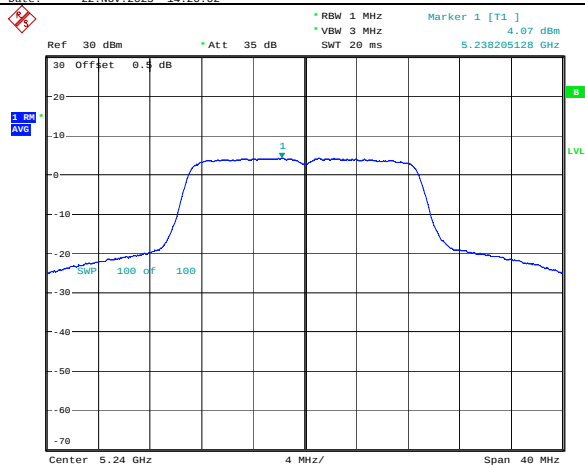
Duty cycle <98%, and duty cycle variations are less than $\pm 2\%$, KDB 789033 D02 General UNII Test Procedures New Rules v02r01 Method SA-2 was used.

For Duty cycle<98%, and Duty cycle be considered to be constant(variations are less than $\pm 2\%$), the duty cycle factor was added into the result.

5150-5250MHz:

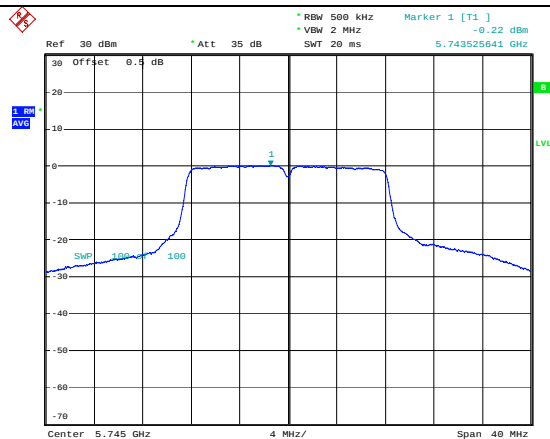
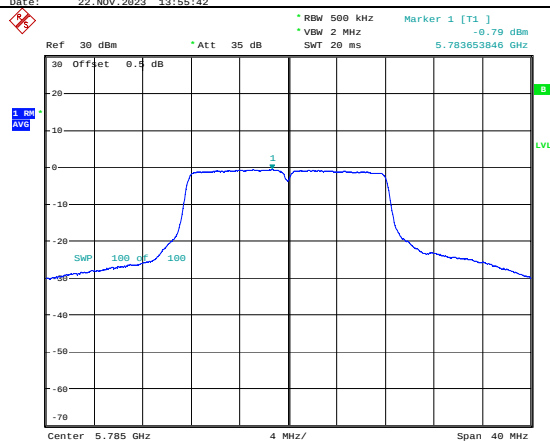
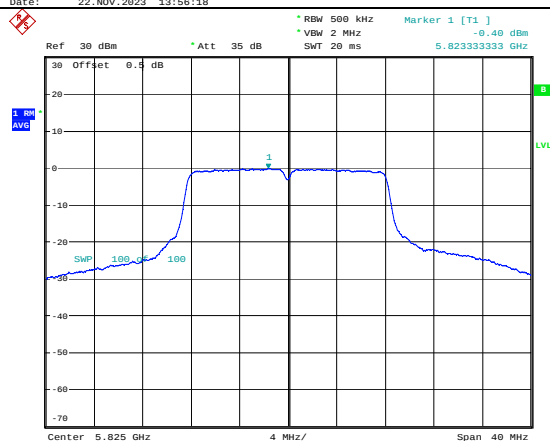


Maximum power spectral density

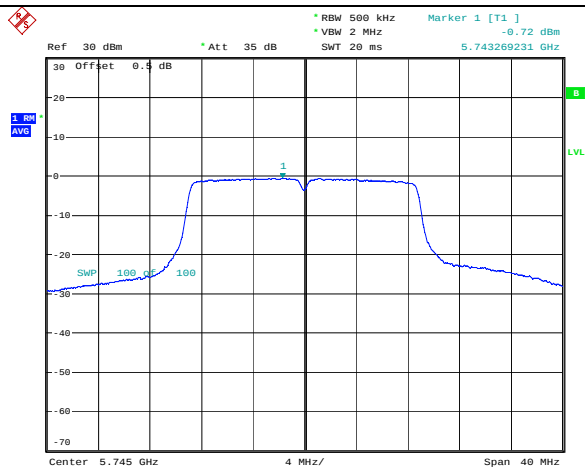
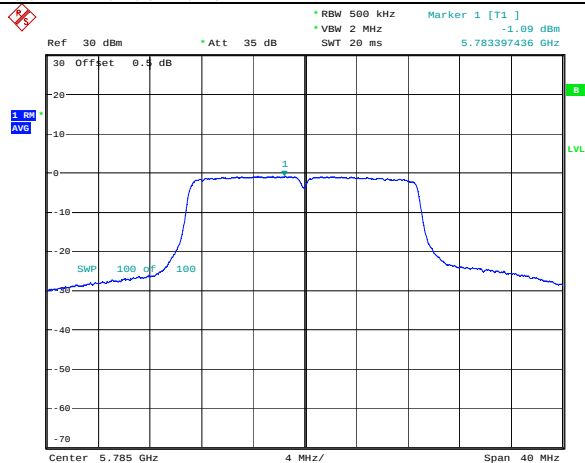
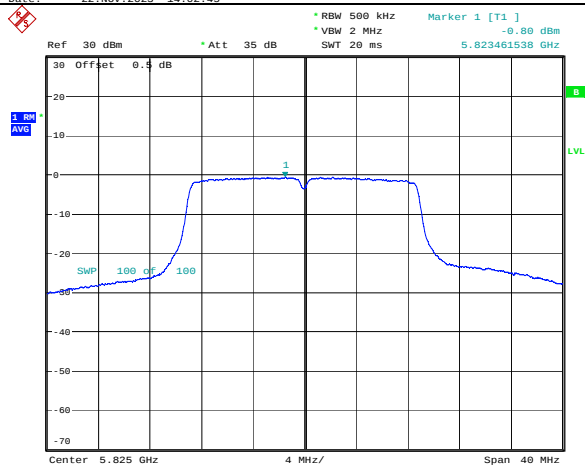
802.11n ht20
Lowest ChannelComment: ProjectNo.:CR231166663-RF Tester:LingLing Li
Date: 22.NOV.2023 14:14:22802.11n ht20
Middle ChannelComment: ProjectNo.:CR231166663-RF Tester:LingLing Li
Date: 22.NOV.2023 14:20:02802.11n ht20
Highest ChannelComment: ProjectNo.:CR231166663-RF Tester:LingLing Li
Date: 22.NOV.2023 14:20:49

5725-5850MHz

Maximum power spectral density

802.11a
Lowest ChannelComment: ProjectNo.:CR231166663-RF Tester:LingLing Li
Date: 22.NOV.2023 13:55:42802.11a
Middle ChannelComment: ProjectNo.:CR231166663-RF Tester:LingLing Li
Date: 22.NOV.2023 13:56:18802.11a
Highest ChannelComment: ProjectNo.:CR231166663-RF Tester:LingLing Li
Date: 22.NOV.2023 13:58:02

Maximum power spectral density

802.11n ht20
Lowest ChannelComment: ProjectNo.:CR231166663-RF Tester:LingLing Li
Date: 22.NOV.2023 14:02:13802.11n ht20
Middle ChannelComment: ProjectNo.:CR231166663-RF Tester:LingLing Li
Date: 22.NOV.2023 14:02:45802.11n ht20
Highest ChannelComment: ProjectNo.:CR231166663-RF Tester:LingLing Li
Date: 22.NOV.2023 13:58:41

4.6 Duty Cycle:

Serial Number:	2DJE-1	Test Date:	2023/11/22
Test Site:	RF	Test Mode:	Transmitting
Tester:	Lingling Li	Test Result:	N/A

Environmental Conditions:

Temperature: (°C)	27.6	Relative Humidity: (%)	59	ATM Pressure: (kPa)	101
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSU26	100147	2023/3/31	2024/3/30
zhuoxiang	Coaxial Cable	SMA-178	211002	Each time	N/A

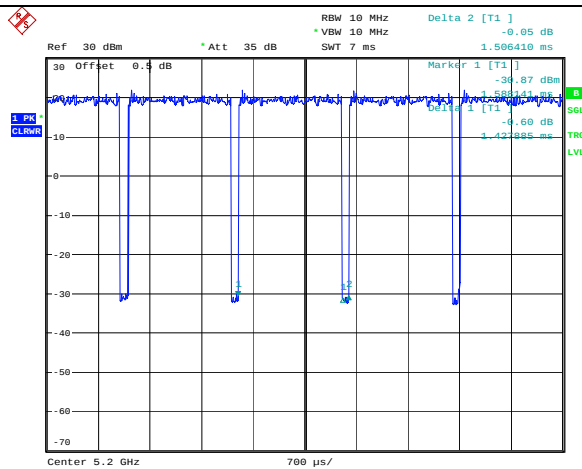
* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data:

Test Modes	Ton (ms)	Ton+off (ms)	Duty cycle (%)	1/T (Hz)	Duty Factor (dB)	VBW Setting (kHz)
802.11a	1.428	1.506	94.82	700	0.23	1
802.11n ht20	1.335	1.425	93.68	749	0.28	1

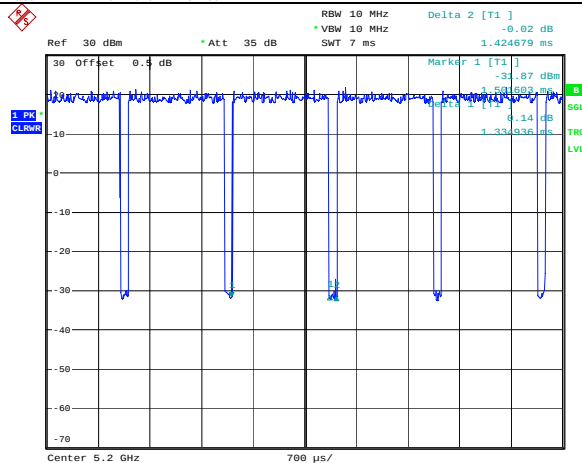
Duty Cycle

802.11a



Comment: ProjectNo.:CR231166663-RF Tester:LingLing Li
Date: 22.NOV.2023 14:31:39

802.11n ht20



Comment: ProjectNo.:CR231166663-RF Tester:LingLing Li
Date: 22.NOV.2023 14:36:08

5. EUT PHOTOGRAPHS

Please refer to the attachment CR231166663-EXP EUT EXTERNAL PHOTOGRAPHS and
CR231166663-INP EUT INTERNAL PHOTOGRAPHS

6. TEST SETUP PHOTOGRAPHS

Please refer to the attachment CR231166663-00C-TSP TEST SETUP PHOTOGRAPHS.

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