



TEST REPORT

Applicant: Telepower Communication Co., Ltd.

5 Bld, Zone A, Hantian Technology Town No.17 ShenHai RD, Nanhai Address: District Foshan China

FCC ID: 2AJ2B-K8

Product Name: Self-Service Kiosk

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: CR231062479-00D

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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

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
1.0	CR231062479-00D	Original Report	2024/3/14

1. GENERAL INFORMATION

1.1 Product Description for Equipment under Test (EUT)

1.1.1 General:

EUT Name:	Self-Service Kiosk	
Trade Name:	Telpo	
EUT Model:	K8	
Operation Frequency:	5745-5825 MHz (802.11a/n ht20/ac vht20) 5755-5795 MHz(802.11n ht40/ac vht40) 5775 MHz(802.11ac vht80)	
Maximum Average Output Power (Conducted):	13.68dBm (5725-5850 MHz)	
Modulation Type:	802.11a/n/ac: OFDM-BPSK, QPSK, 16QAM, 64QAM,256QAM	
Rated Input Voltage:	DC 24V from adapter	
Serial Number:	2CPG-1 for RF test 2CPG-2 for CE&RE test	
EUT Received Date:	2023/10/27	
EUT Received Status:	Good	

1.1.2 Operation Frequency Detail: For 802.11a/n ht20/ac vht20:

5725-5850MHz Band				
Channel	Frequency (MHz)			
149	5745			
153	5765			
157	5785			
161	5805			
165	5825			
Per section 15.31(m), the below frequencies were performed the test as below:				
149	5745			
157	5785			
165	5825			

For 802.11n ht40/ac vht40:

5725-5850MHz Band			
Channel	Frequency (MHz)		
151	5755		
159	5795		
Per section 15.31(m), the below frequencies were performed the test as below:			
151	5755		
159	5795		

For 802.11ac vht80:

5725-5850MHz Band			
Channel Frequency (MHz)			
155	5775		
Per section 15.31(m), the below frequencies were performed the test as below:			
155	5775		

1.1.3 Antenna Information Detail:

Antenna Type	input impedance (Ohm)	Frequency Range	Antenna Gain (dBi)
FPC	50	5.725-5.85GHz	3.95

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	Parameters
Adapter	GVE	GM130-2400500-F	Input: AC 100-240V, 50/60Hz, 2.5A Output: DC 24.0V, 5.0A, 120.0W

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:	cmd

The software was provided by manufacturer. The maximum power was configured as below, that was provided by the manufacturer ▲:
5725-5850 MHz Band:

5/25-5050 MILZ Dalu.				
Test Modes	Test Frequency	Test Channel	Data rate	Power Level Setting
	5745	5745	6Mbps	50
802.11a	5785	5785	6Mbps	50
	5825	5825	6Mbps	50
802.11ac vht20	5745	5745	MCS0	56
	5785	5785	MCS0	56
	5825	5825	MCS0	56
802.11ac vht40	5755	5755	MCS0	58
	5795	5795	MCS0	58
802.11ac vht80	5775	5775	MCS0	63

Note:

1. The system support 802.11a/n ht20/n ht40/ac vht20/ac vht40, the n ht20/n ht40 were reduced since the identical parameters with 802.11ac vht20/ac vht40.

2. 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

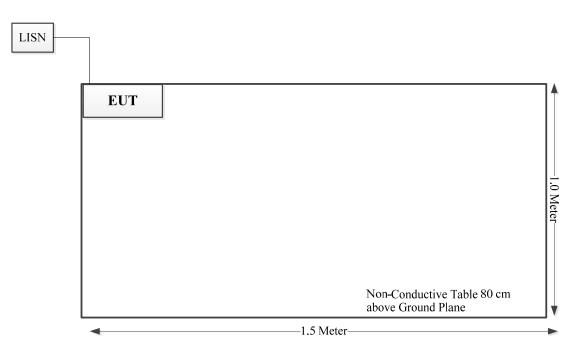
Manufacturer	Description	Model	Serial Number
Unknown	Receptacle	Unknown	Unknown

1.2.3 Support Cable List and Details

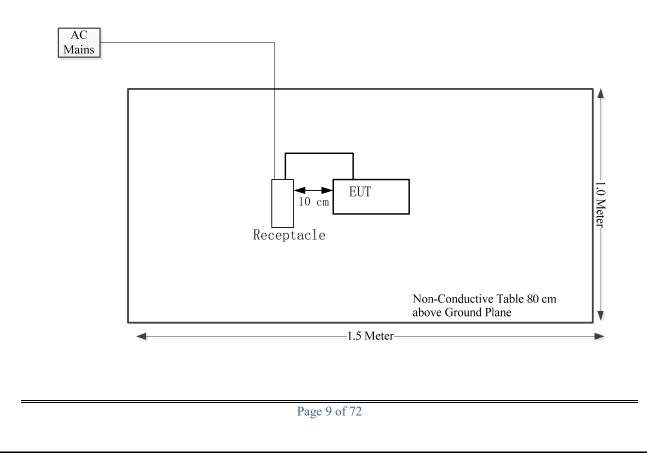
Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	То
Unknown	Receptacle	Unknown	Unknown	Unknown	Receptacle

1.2.4 Block Diagram of Test Setup

AC Line Conducted Emissions:

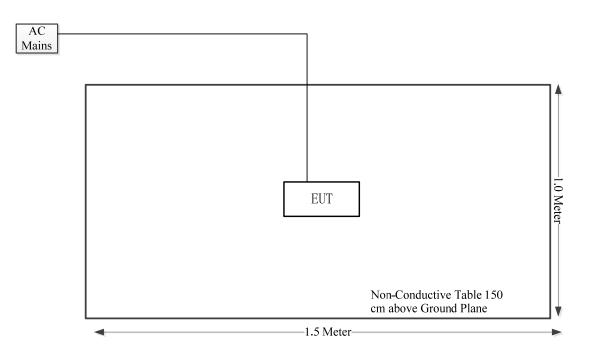


Radiated Spurious Emissions (below 1GHz):



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Radiated Spurious Emissions (above 1GHz):



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	$\pm 5\%$		
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	$\pm 5\%$		
DC and low frequency voltages	$\pm 0.4\%$		
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)	Radiated Spurious Emissions	Compliant
FCC§15.407(a) (e)	Emission Bandwidth	Compliant
FCC§15.407(a)	Maximum Conducted Output Power	Compliant
FCC§15.407 (a)	407 (a) Power Spectral Density	
§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.

	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:

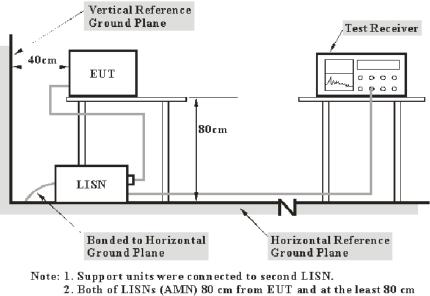
(1) For carrier current system containing their fundamental emission within the frequency band 535-1705 kHz and intended to be received using a standard AM broadcast receiver: no limit on conducted emissions.

(2) For all other carrier current systems: 1000 μV within the frequency band 535-1705 kHz, as measured using a 50 $\mu H/50$ 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



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 frequency and specific current-carrying conductor identified with the emission. The six highest emissions should be reported for each of the reported associated for each of the current-carrying conductor identified with the emission. The six highest emissions should be reported for each of the 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 (d) 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 \S 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.

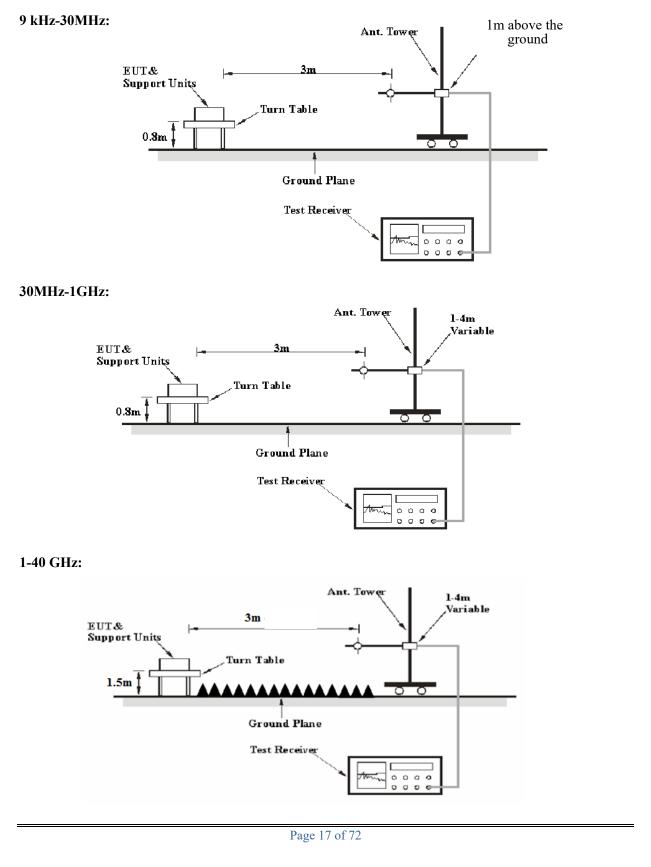
(10) The provisions of § 15.205 apply to intentional radiators operating under this section.

(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.

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3.2.2 EUT Setup



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 9 kHz to 40 GHz.

During the radiated emission test, the EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

9 kHz -1000 MHz:

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

1GHz-40GHz:

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

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.

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:

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

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

Margin = Limit – Result

3.3 Emission Bandwidth

3.3.1 Applicable Standard

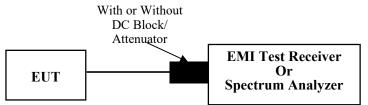
FCC §15.407 (a),(h)

(h)(2) Radar Detection Function of Dynamic Frequency Selection (DFS). U-NII devices operating with any part of its 26 dB emission bandwidth in the 5.25-5.35 GHz and 5.47-5.725 GHz bands shall employ a DFS radar detection mechanism to detect the presence of radar systems and to avoid co-channel operation with radar systems.

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

a) Set RBW = 100 kHz.

b) Set the video bandwidth (VBW) \geq 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.

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).

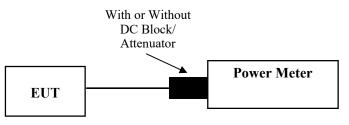
3.4 Maximum Conducted Output Power

3.4.1 Applicable Standard

FCC §15.407(a) (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.

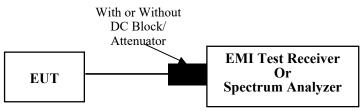
3.5 Maximum Power Spectral Density

3.5.1 Applicable Standard

FCC §15.407(a) (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 $\pm 2\%$

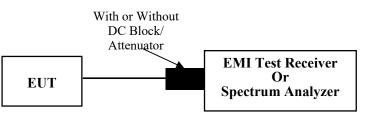
KDB 789033 D02 General UNII Test Procedures New Rules v02r01 Method SA-2 should be applied.

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.

3.7 Duty Cycle

3.7.1 EUT Setup



3.7.2 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 $VBW \ge RBW$. Set detector = peak or average.

4) The zero-span measurement method shall not be used unless both RBW and VBW are > 50/T and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring the duty cycle shall not be used if $T \le 16.7 \ \mu s$.)

3.8 Antenna Requirement

3.8.1 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.

3.8.2 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:	2CPG-2	Test Date:	2023/12/18
Test Site:	CE	Test Mode:	Transmitting(maximum output power mode 802.11ac vht80,5775 MHz)
Tester:	David Huang	Test Result:	Pass

Environmental Conditions:								
Temperature: (℃)	24.1	Relative Humidity: (%)	35	ATM Pressure: (kPa)	101.8			

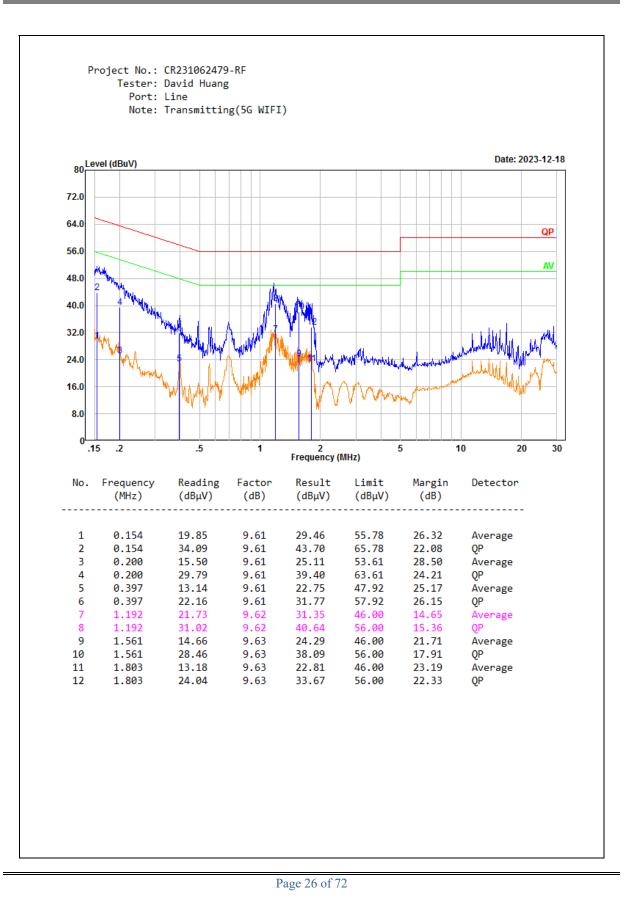
Test Equipment List and Details:

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

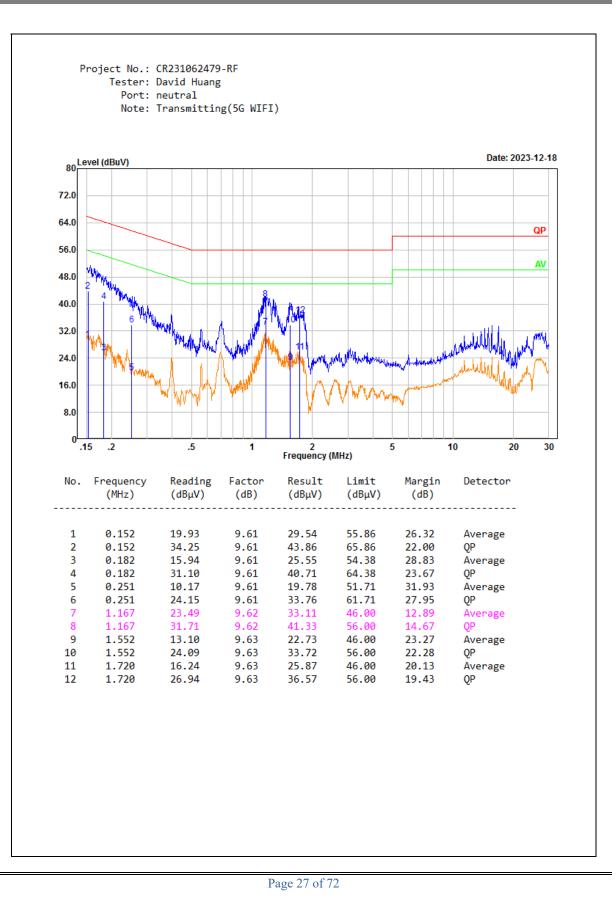
* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data:

Report No.: CR231062479-00D



Report No.: CR231062479-00D



4.2 Radiation Spurious Emissions

Serial Number:	2CPG-2	Test Date:	Below 1G :2024/1/12 Above 1G :2023/12/05
Test Site:	966-2, 966-1	Test Mode:	Transmitting
Tester:	Vic Du, Tao Zhu	Test Result:	Pass

Environmental	Environmental Conditions:									
Temperature: (°C)	25.1~25.4	Relative Humidity: (%)	42~53	ATM Pressure: (kPa)	101.3~101.4					

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date				
Below 1G									
Sunol Sciences	Antenna	JB6	A082520-5	2023/12/1	2026/11/30				
BACL	Loop Antenna	1313-1A	3110611	2023/12/4	2026/12/3				
Daruikang	Coaxial Cable	BNC-JJ-RG58	C-0300-01	2024/1/11	2025/1/10				
Daruikang	Coaxial Cable	BNC-JJ-RG58	C-0500-01	2024/1/11	2025/1/10				
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				
		Above 1G							
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	5150-5850MHz	OE01902423	2023/8/6	2024/8/5				
Mini Circuits	High Pass Filter	VHF-6010+	31119	2023/8/6	2024/8/5				
PASTERNACK	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).

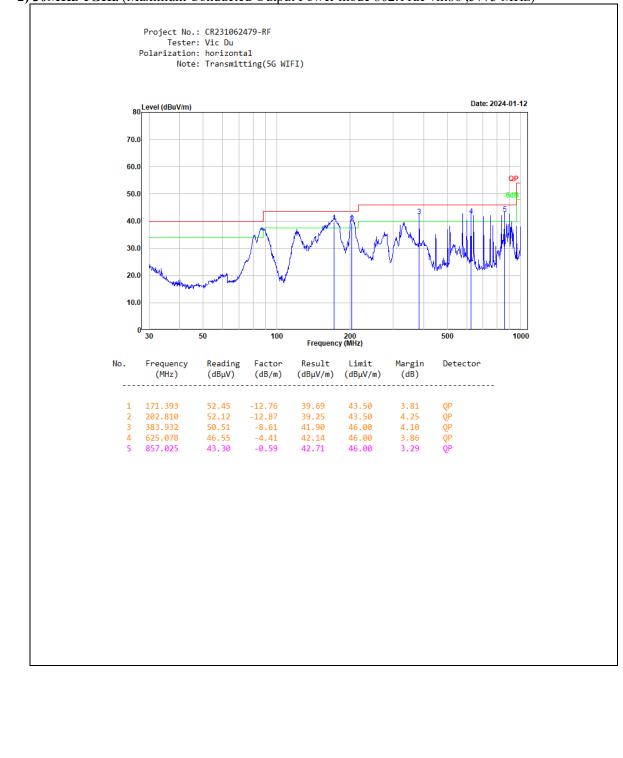
Test Data:

Please refer to the below table and plots.

1) 9k-30MHz

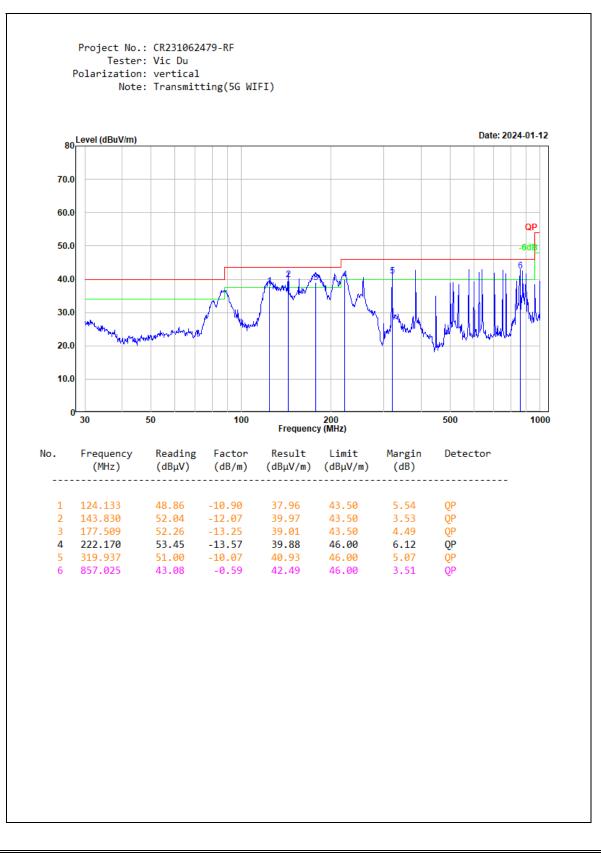
The amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required to be report.

Report No.: CR231062479-00D



2) 30MHz-1GHz (Maximum Conducted Output Power mode 802.11ac vht80 ,5775 MHz)

Report No.: CR231062479-00D



Report No.: CR231062479-00D

2) 1GHz-40GHz: 5725-5850MHz

802.11a	Mode:
---------	-------

E	Receiver		Dalan	Et	Descrit	T insid	Manala
Frequency (MHz)	Reading (dBµV)	Detector	Polar (H/V)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)
	Low Channel:		Channel:	5745	MHz		
11490.000	41.21	РК	Н	21.49	62.70	74.00	11.30
11490.000	29.20	AV	Н	21.49	50.69	54.00	3.31
11490.000	40.47	РК	V	21.49	61.96	74.00	12.04
11490.000	28.74	AV	V	21.49	50.23	54.00	3.77
Middle Cl			Channel:	5785	MHz		
11570.000	40.90	РК	Н	21.71	62.61	74.00	11.39
11570.000	27.83	AV	Н	21.71	49.54	54.00	4.46
11570.000	39.91	РК	V	21.71	61.62	74.00	12.38
11570.000	27.69	AV	V	21.71	49.40	54.00	4.60
High Cł		Channel:	5825	MHz			
11650.000	40.31	РК	Н	22.04	62.35	74.00	11.65
11650.000	27.79	AV	Н	22.04	49.83	54.00	4.17
11650.000	39.13	РК	V	22.04	61.17	74.00	12.83
11650.000	27.27	AV	V	22.04	49.31	54.00	4.69

802.11ac vht20 Mode:

Г	Receiver			Γ.		T : :/	
Frequency (MHz)	Reading (dBµV)	Detector	Polar (H/V)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)
	Low Channe			5745	MHz		
11490.000	40.21	РК	Н	21.49	61.70	74.00	12.30
11490.000	28.98	AV	Н	21.49	50.47	54.00	3.53
11490.000	39.48	РК	V	21.49	60.97	74.00	13.03
11490.000	28.17	AV	V	21.49	49.66	54.00	4.34
	Middle C			5785	MHz		
11570.000	42.27	РК	Н	21.71	63.98	74.00	10.02
11570.000	28.84	AV	Н	21.71	50.55	54.00	3.45
11570.000	41.96	РК	V	21.71	63.67	74.00	10.33
11570.000	27.77	AV	V	21.71	49.48	54.00	4.52
High C		Channel:	5825	MHz			
11650.000	42.54	РК	Н	22.04	64.58	74.00	9.42
11650.000	28.64	AV	Н	22.04	50.68	54.00	3.32
11650.000	41.52	РК	V	22.04	63.56	74.00	10.44
11650.000	27.55	AV	V	22.04	49.59	54.00	4.41

Report No.: CR231062479-00D

802.11ac vht40 Mode:

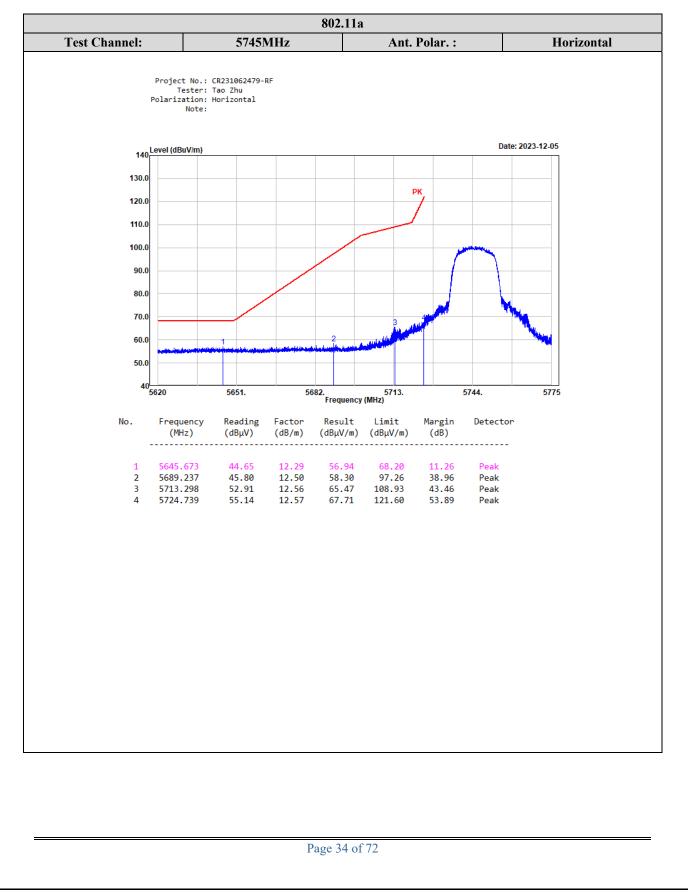
Frequency (MHz)	Receiver		D 1		D It		
	Reading (dBµV)	Detector	Polar (H/V)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)
	Low Channel:			5755	MHz		
11510.000	42.16	РК	Н	21.48	63.64	74.00	10.36
11510.000	28.86	AV	Н	21.48	50.34	54.00	3.66
11510.000	40.98	РК	V	21.48	62.46	74.00	11.54
11510.000	28.07	AV	V	21.48	49.55	54.00	4.45
High Chann			Channel:	5795	MHz		
11590.000	41.65	РК	Н	21.78	63.43	74.00	10.57
11590.000	28.64	AV	Н	21.78	50.42	54.00	3.58
11590.000	41.39	РК	V	21.78	63.17	74.00	10.83
11590.000	28.16	AV	V	21.78	49.94	54.00	4.06

802.11ac vht80 Mode:

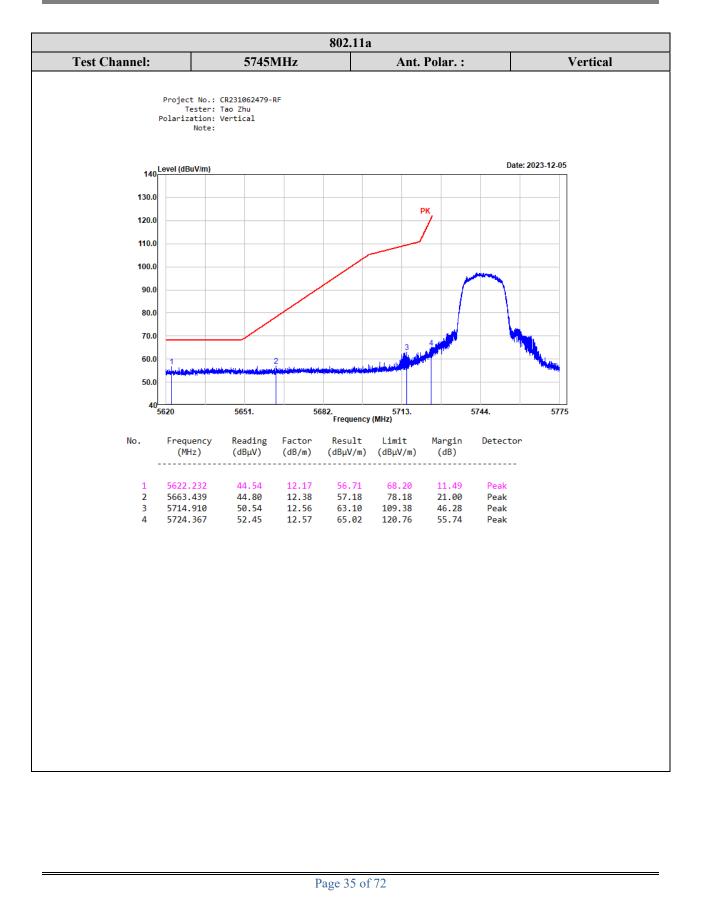
Frequency (MHz)	Receiver		Dalan	E (D 14	T · · ·	
	Reading (dBµV)	Detector	Polar (H/V)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)
Middle Cl			Channel:	5775	MHz		
11550.000	41.37	РК	Н	21.63	63.00	74.00	11.00
11550.000	28.78	AV	Н	21.63	50.41	54.00	3.59
11550.000	40.54	PK	V	21.63	62.17	74.00	11.83
11550.000	28.35	AV	V	21.63	49.98	54.00	4.02

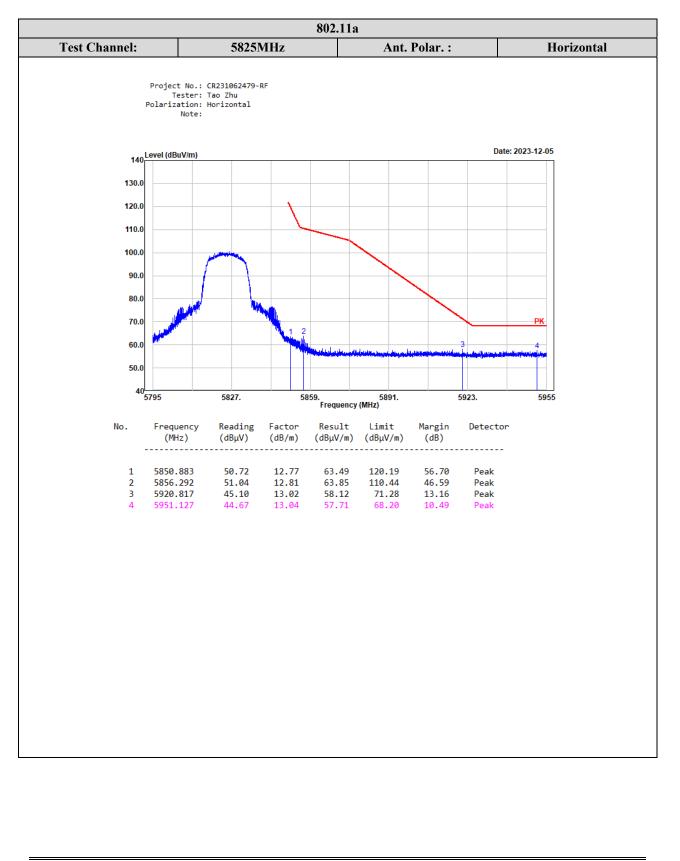
Report No.: CR231062479-00D

Test plots for Band Edge Measurements (Radiated)

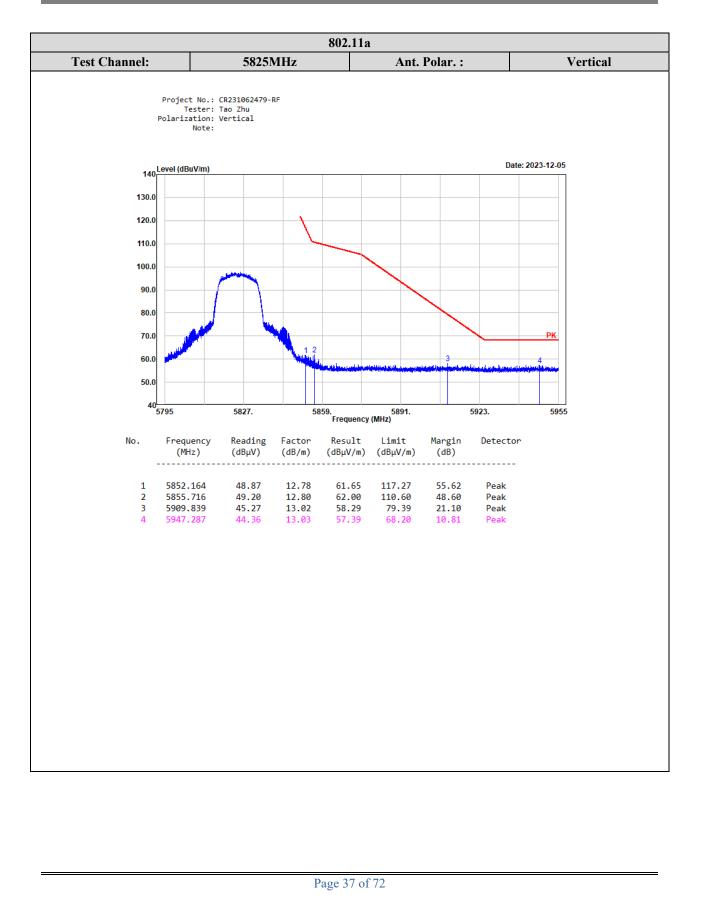


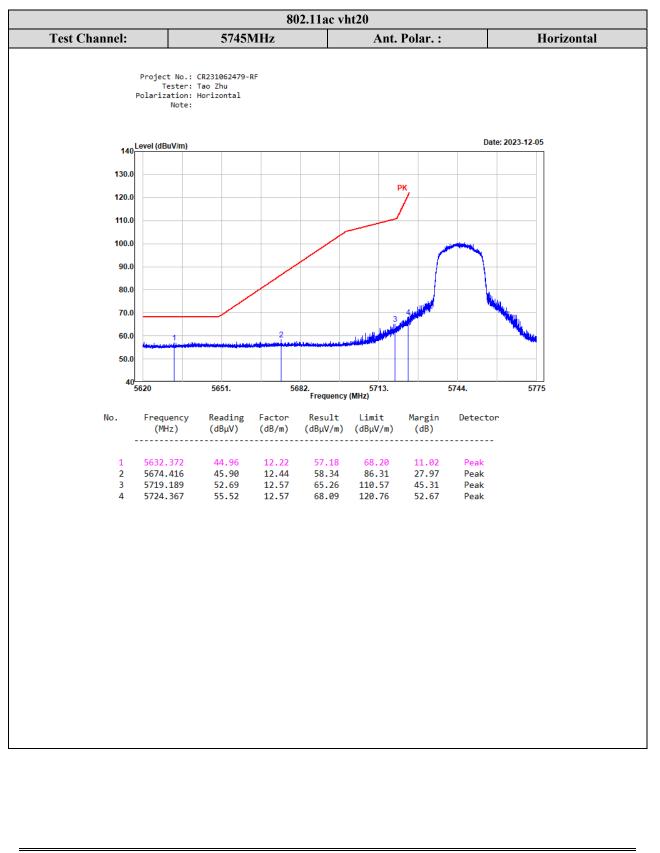
Report No.: CR231062479-00D

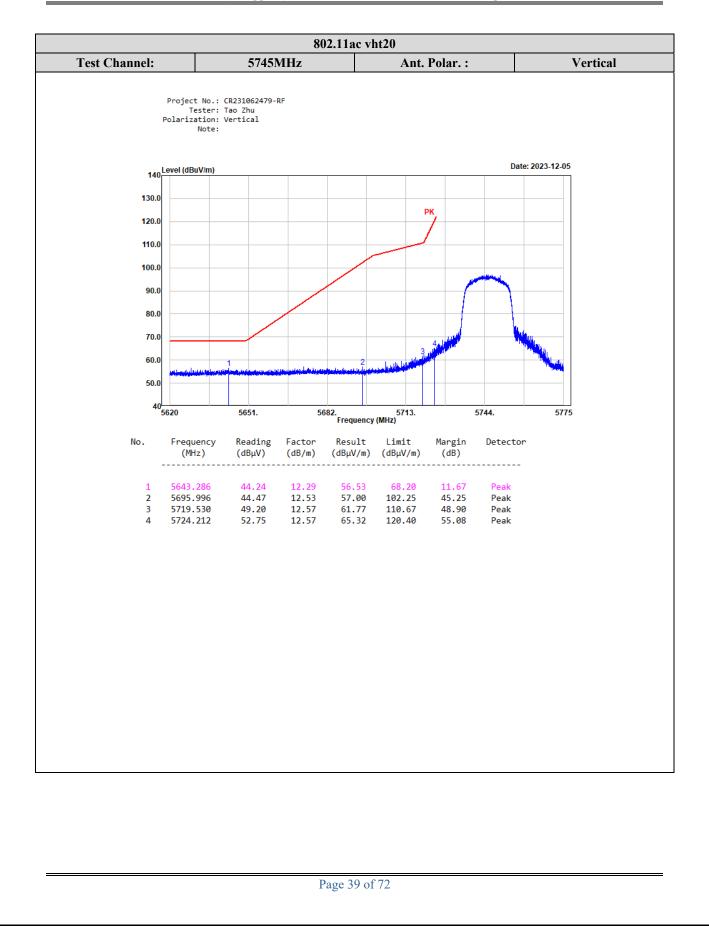


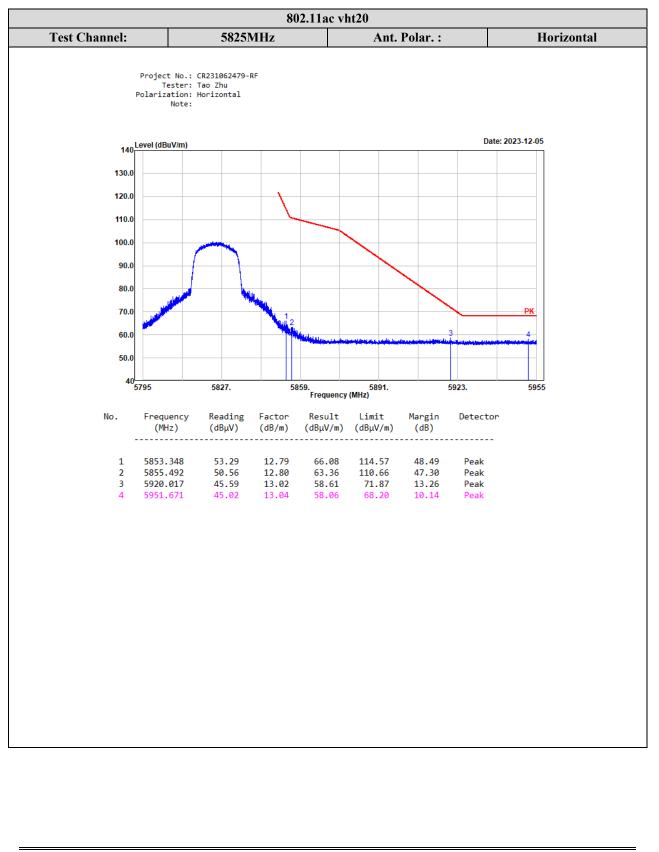


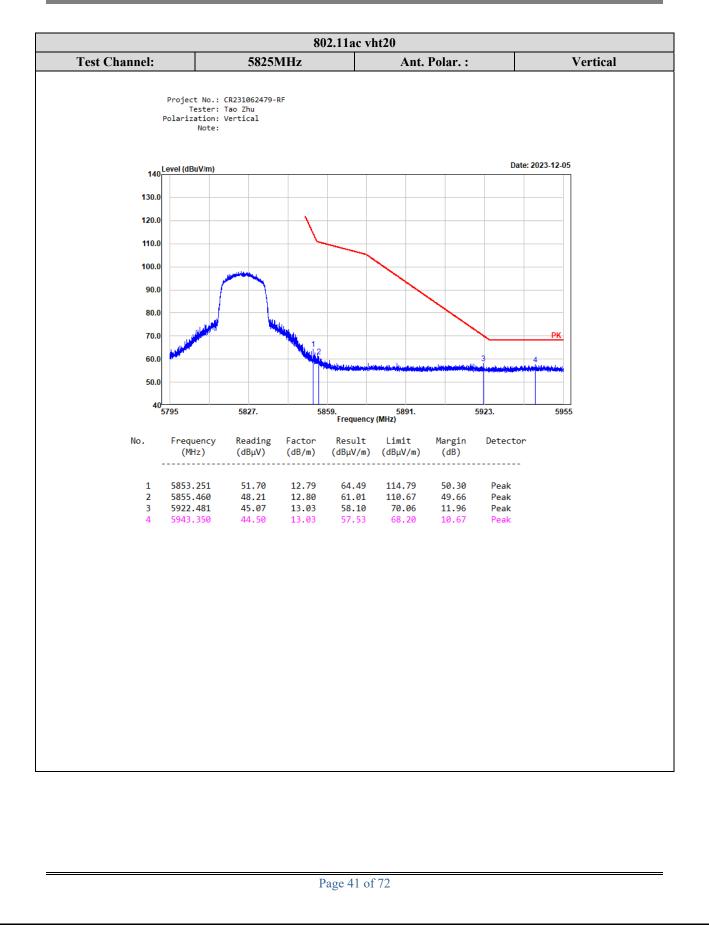
Report No.: CR231062479-00D

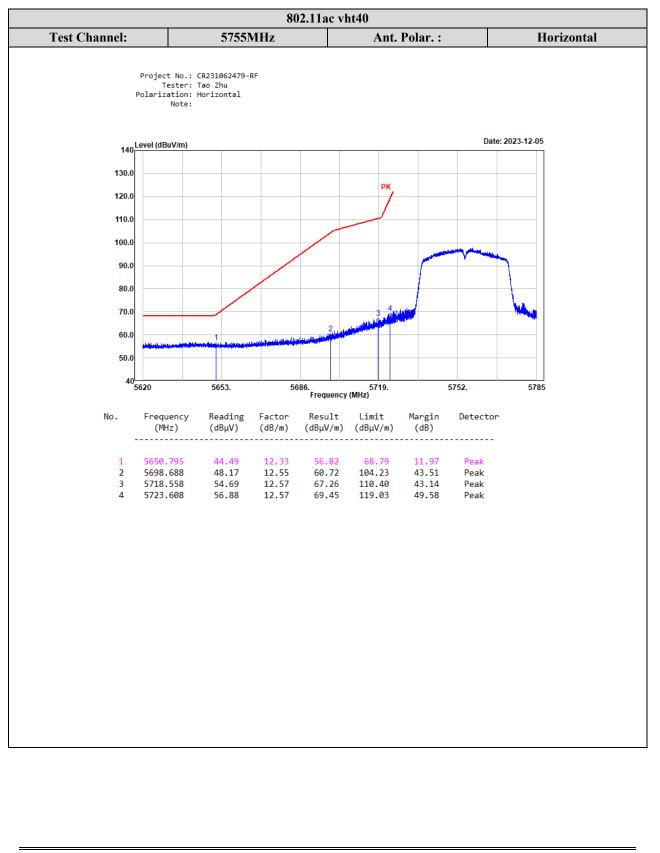


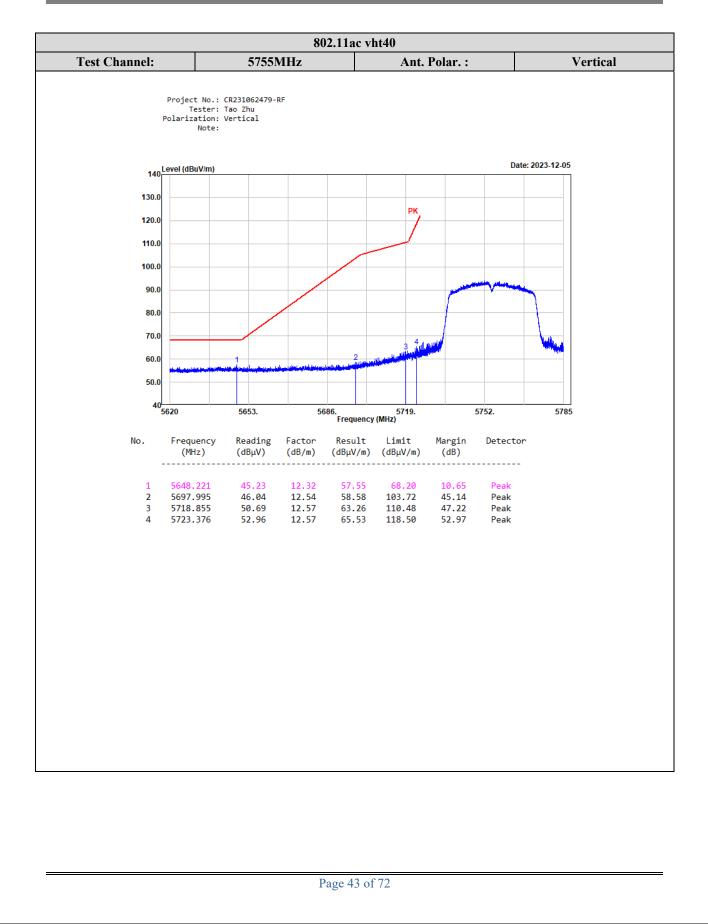


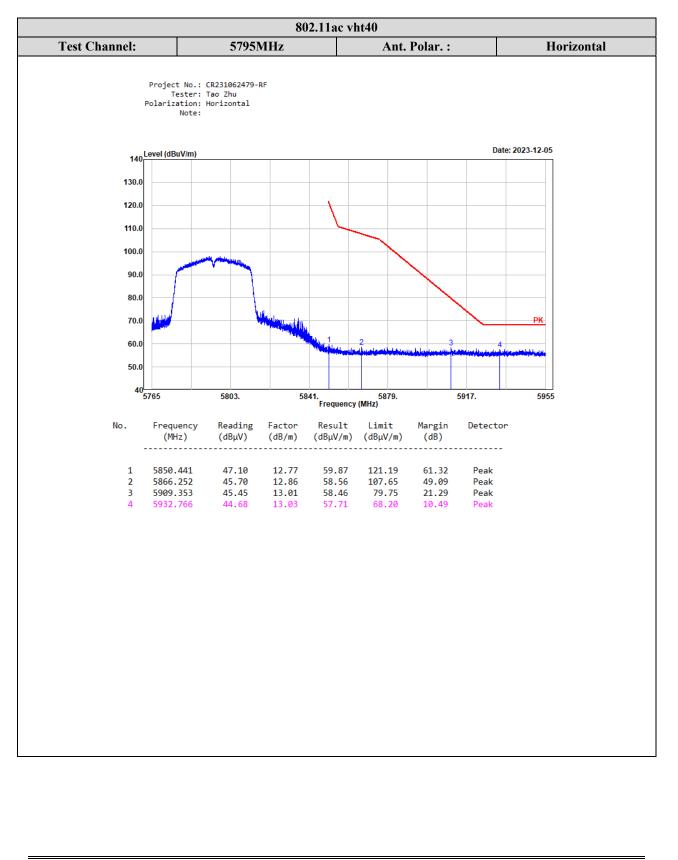


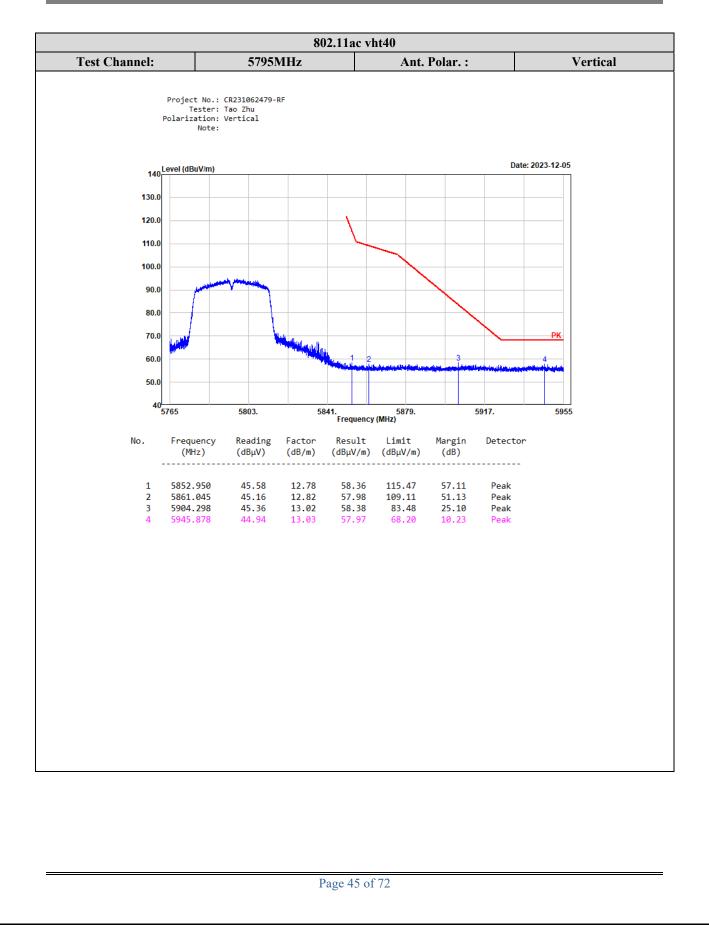


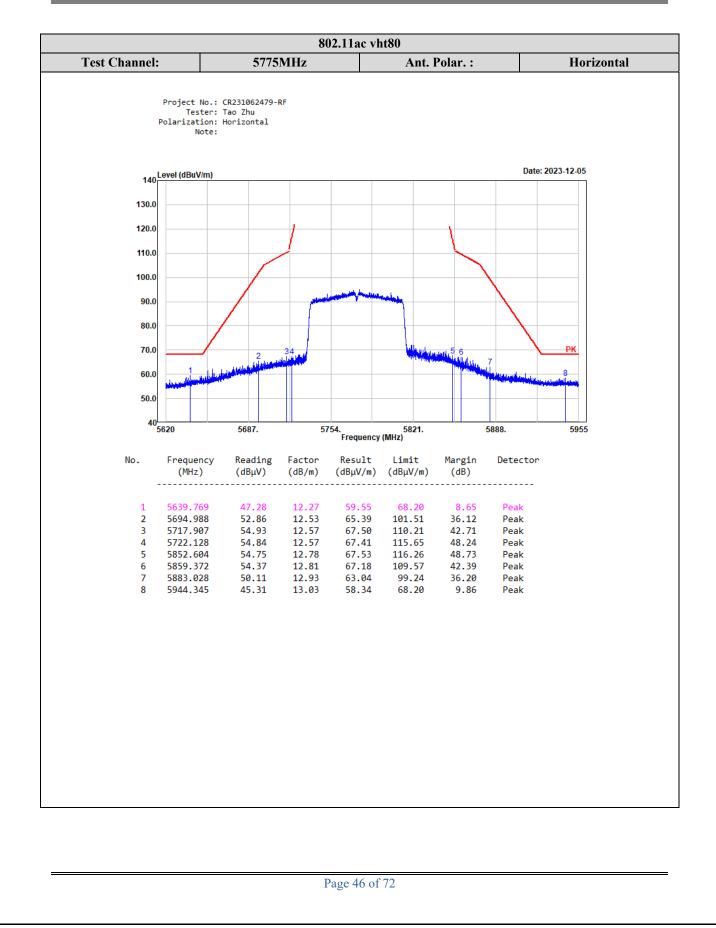


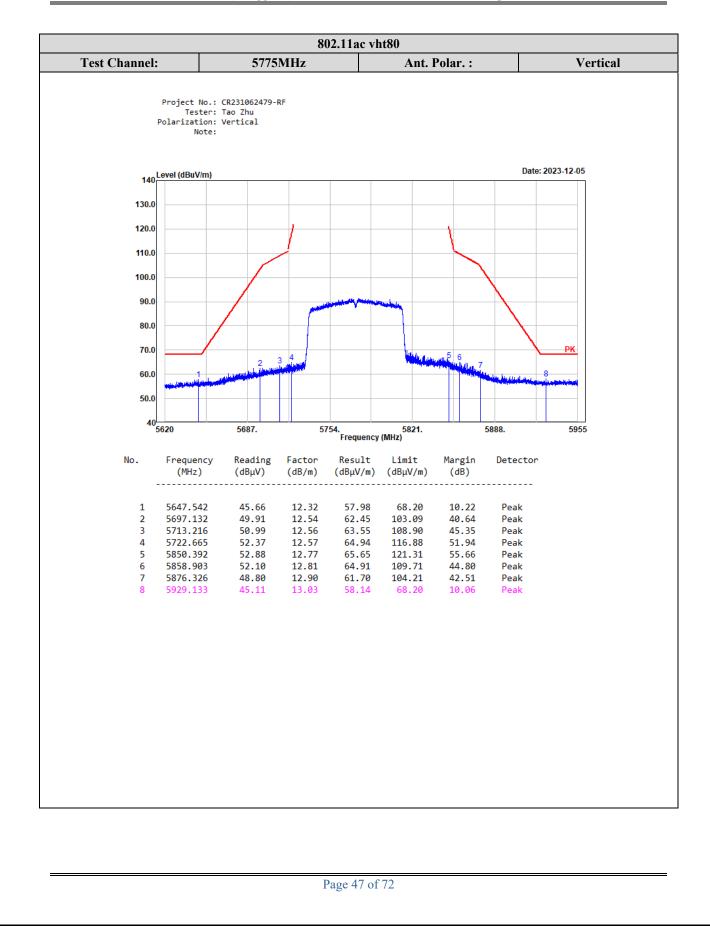


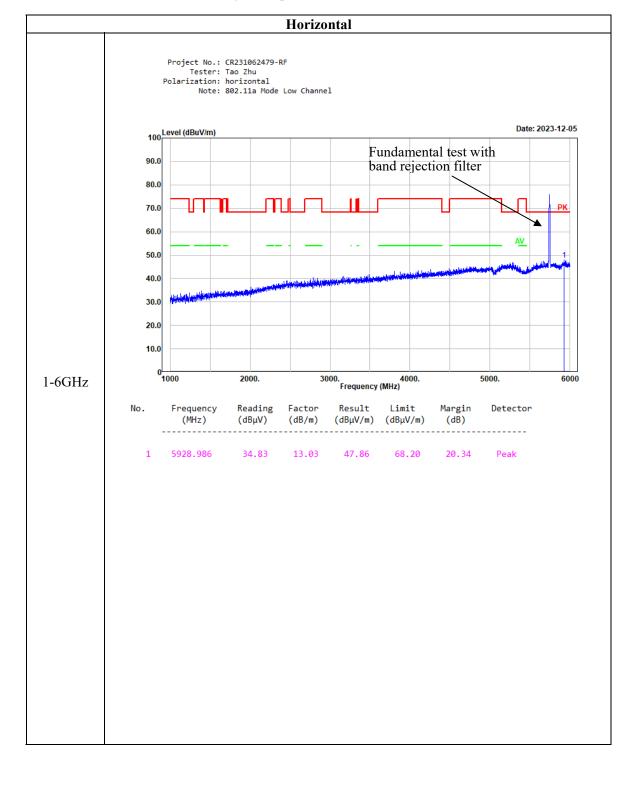




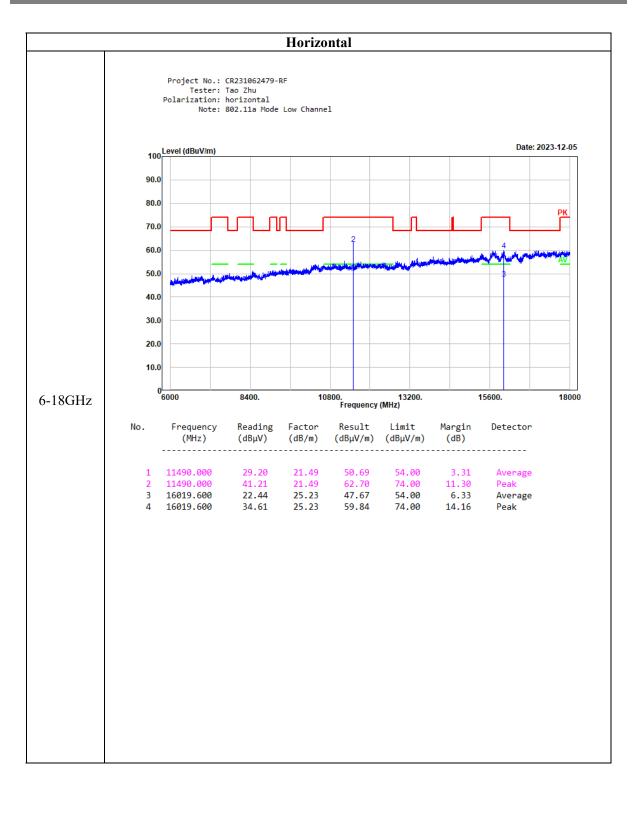


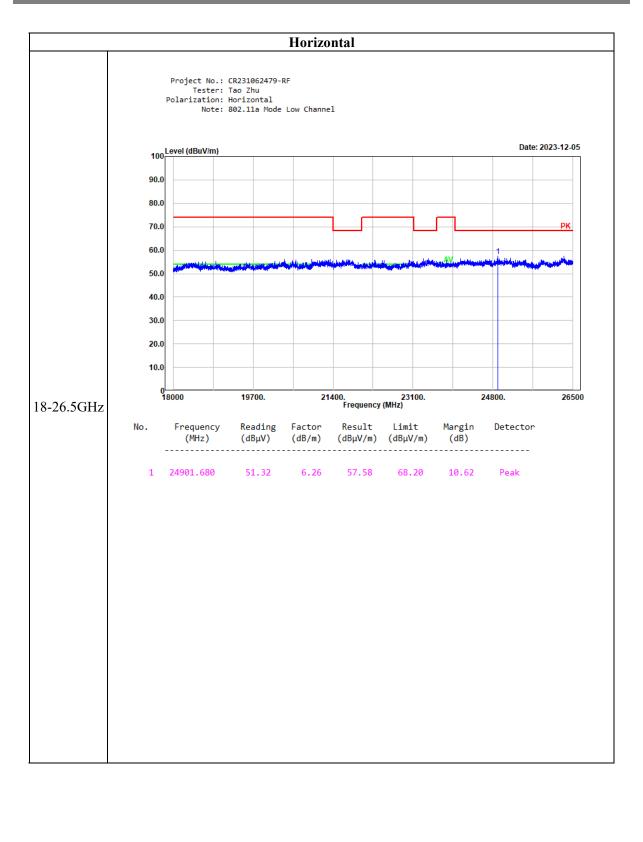


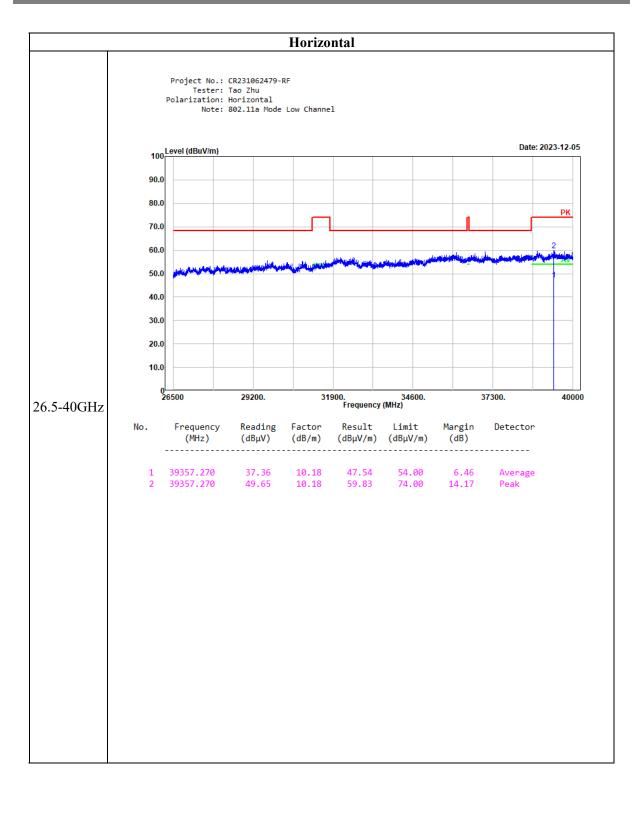


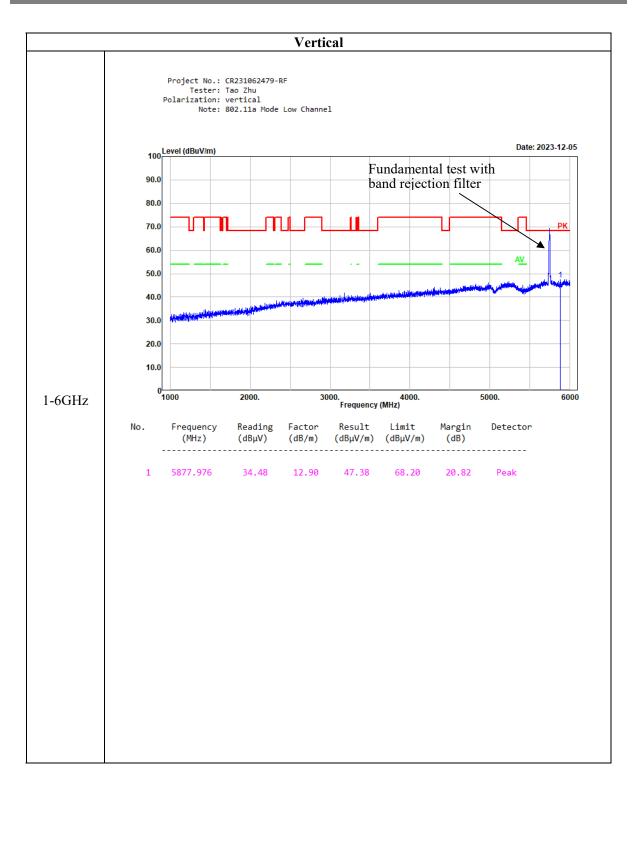


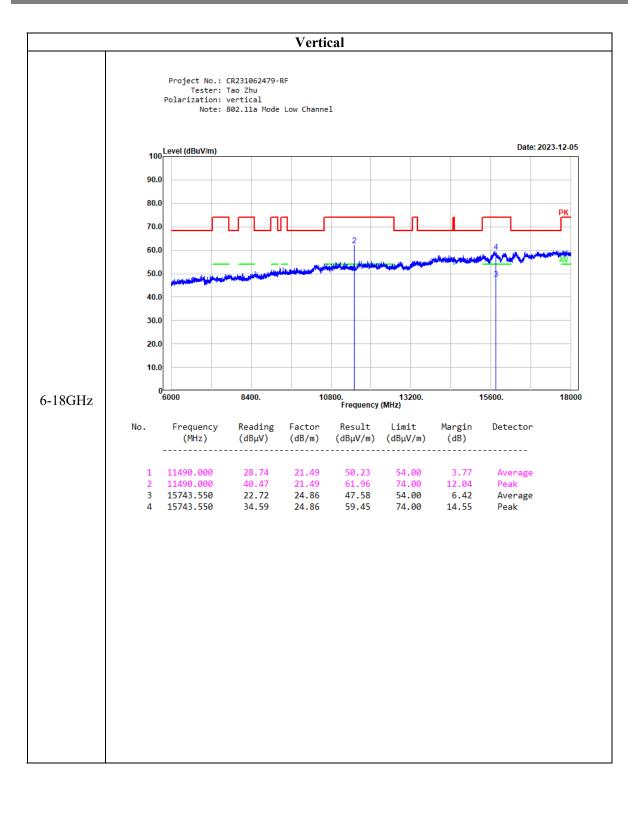
Listed with the worst harmonic margin test plot (802.11 a, Low channel)

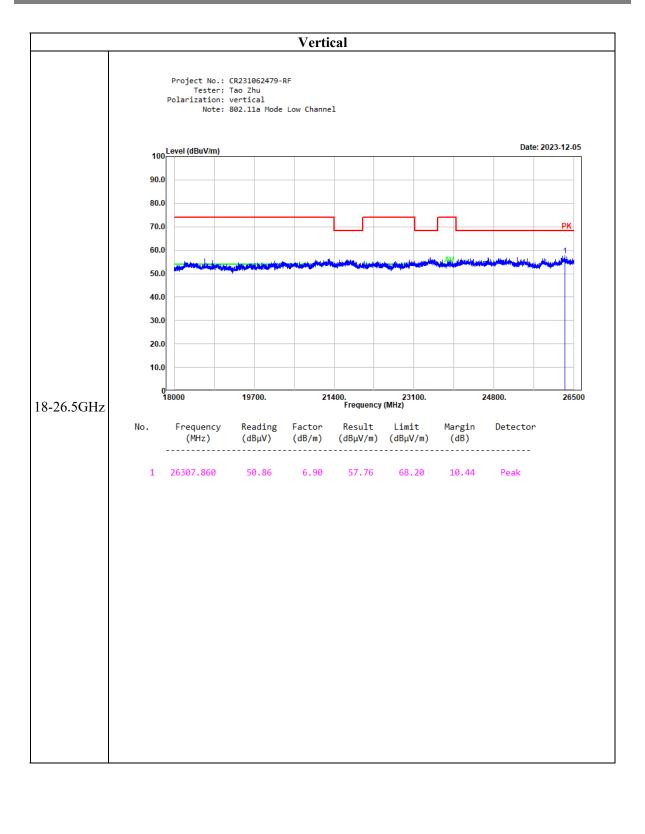




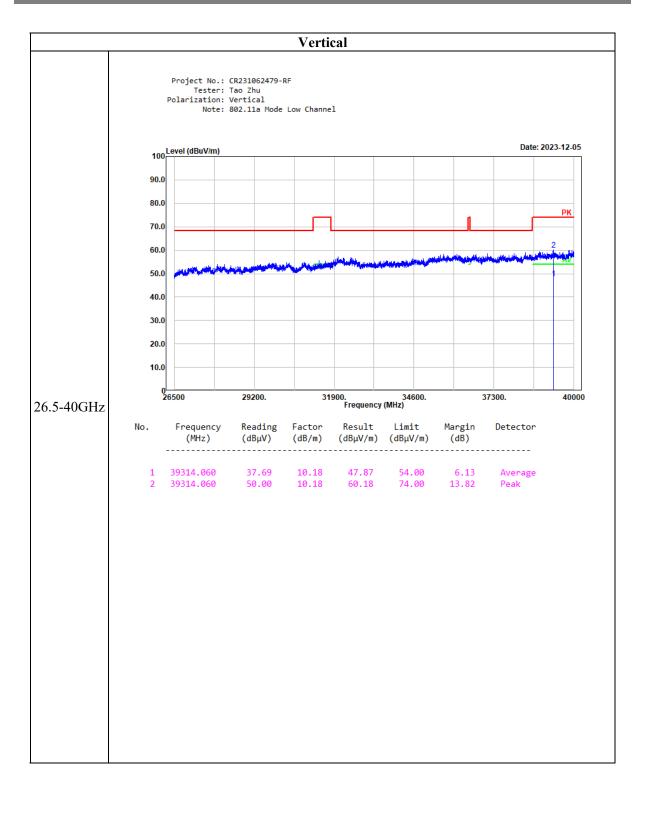








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4.3 Emission Bandwidth:

Serial Number:	2CPG-1	Test Date:	2023-12-04
Test Site:	RF	Test Mode:	Transmitting
Tester:	Ken Tang	Test Result:	Pass

Environmental Conditions:

Temperature: (℃)	25.9	Relative Humidity: (%)	60	ATM Pressure: (kPa)	100.2

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40-N	102259	2023/4/18	2024/4/17
zhuoxiang	Coaxial Cable	SMA-178	211003	Each time	N/A
eastsheep	Coaxial Attenuator	2W-SMA-JK-18G	21060302	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:

5725-5850 MHz:

Test Modes	Test Frequency (MHz)	6 dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
	5745	16.40	16.943
802.11a	5785	16.40	17.103
	5825	16.40	16.783
	5745	16.88	18.182
802.11ac vht20	5785	17.40	18.342
	5825	17.00	18.062
802.11ac vht40	5755	35.92	37.483
602.11ac Vnt40	5795	35.44	37.163
802.11ac vht80	5775	75.36	80.400

Note:

1. 6dB Emission Bandwidth Limit: ≥ 0.5 MHz

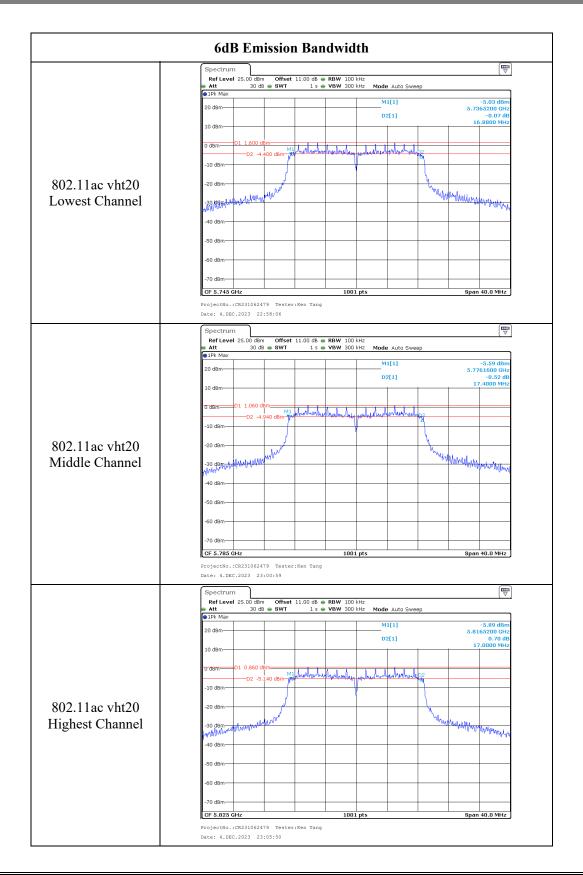
2. The 99% Occupied Bandwidth have not fall into the band 5470-5725MHz, please refer to the test plots of 99% Occupied Bandwidth.

_

5725-5850MHz:

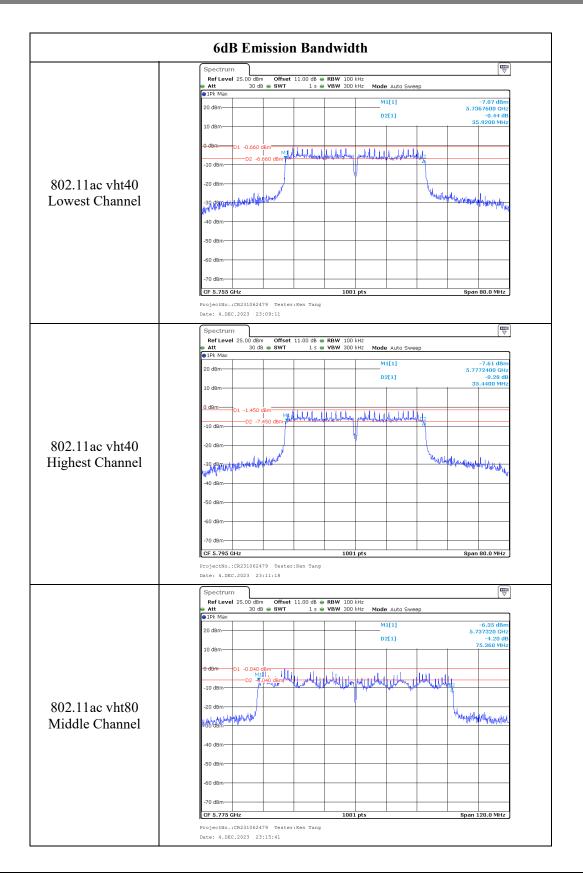
	Spectrum 🕎
	RefLevel 25:00 dBm Offset 11:00 dB RBW 100 kHz Att 30 dB SWT 1 s VBW 300 kHz Mode Auto Sweep
	●1Pk Max 20 dBm
	20 dBm 5.7367600 GHz D2[1] 0.26 dB 16.4000 HHz
	10 dBm
802.11a	0.dBm 01 -1.080 dBm
	01-1.000 d8m -02 -7.080 d8m -10 d8m
	-20 dBm
lowest Channel	-30 dBm
	worder water
	-50 dBm
	-60 dBm
	-70 dBm- CF 5.745 GHz 1001 pts Span 40.0 MHz
	ProjectNo.:CR231062479 Tester:Ken Tang
	Date: 4.DEC.2023 22:42:24
	Spectrum 🕎
	RefLevel 25.00 dBm Offset 11.00 dB RBW 100 kHz Att 30 dB SWT 1 s VBW 300 kHz Mode Auto Sweep
	● JPk Max 20 dBm
	D2[1] 0.54 dB
	10 dBm
	0 dBm 01 -1.450 dBm Malyelaninghunghunghunghunghunghunghunghunghunghu
	-10 dBm
802.11a	-20 dBm
Aiddle Channel	
	-30 dBm
	HAD RETURNED AND A CONTRACT OF A
	-50 dBm
	-60 dBm
	-70 dBm
	CF 5.785 GHz 1001 pts Span 40.0 MHz
	ProjectNo.:CR231062479 Tester:Ken Tang
	Date: 4.DEC.2023 22:53:46
	Spectrum ₩ Ref Level 25.00 dBm Offset 11.00 dB ● RBW 100 kHz
	Att 30 dB SWT 1 s VBW 300 kHz Mode Auto Sweep IPk Max
	20 dBm 5.8167600 GHz
	10 dBm
	0 dBm 01 -1.870 dBm
	-10 dBm - D2 -7.870 dBm - m 2010 m 20
802.11a	-20 dBm
lighest Channel	-30 dBm
<i>C</i>	-30 all m
	-50 dBm
	-60 dBm
	-70 d8m
	CF 5.825 GHz 1001 pts Span 40.0 MHz
	ProjectNo.:CR231062479 Tester:Ken Tang
	Date: 4.DEC.2023 22:46:02

Report No.: CR231062479-00D

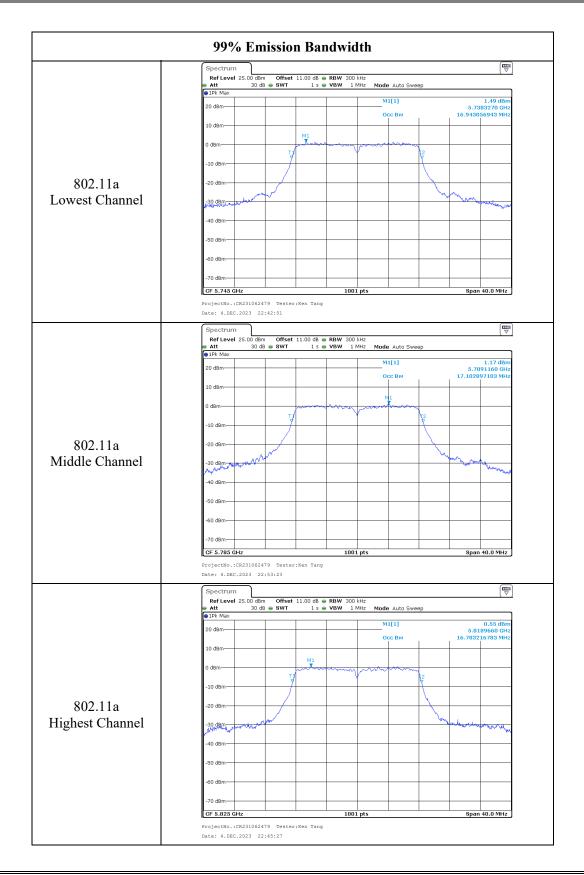


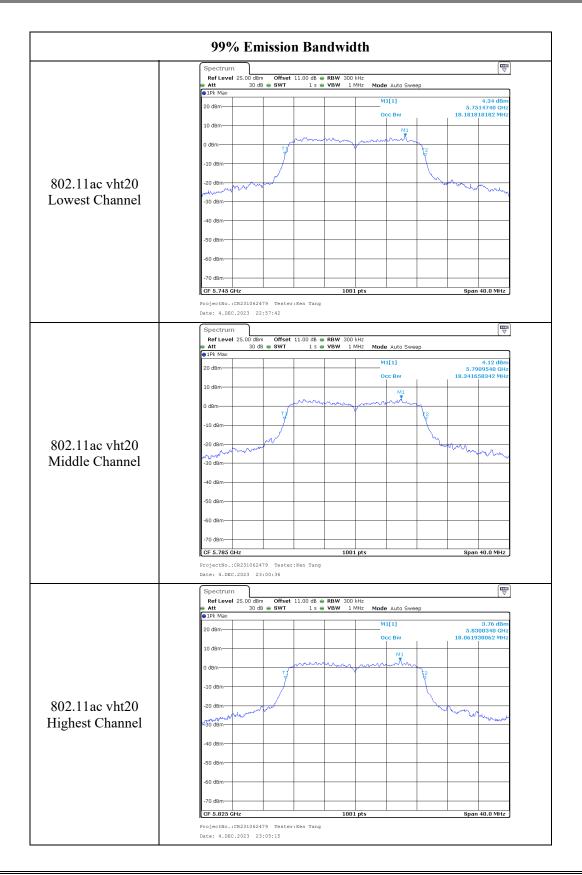
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Report No.: CR231062479-00D

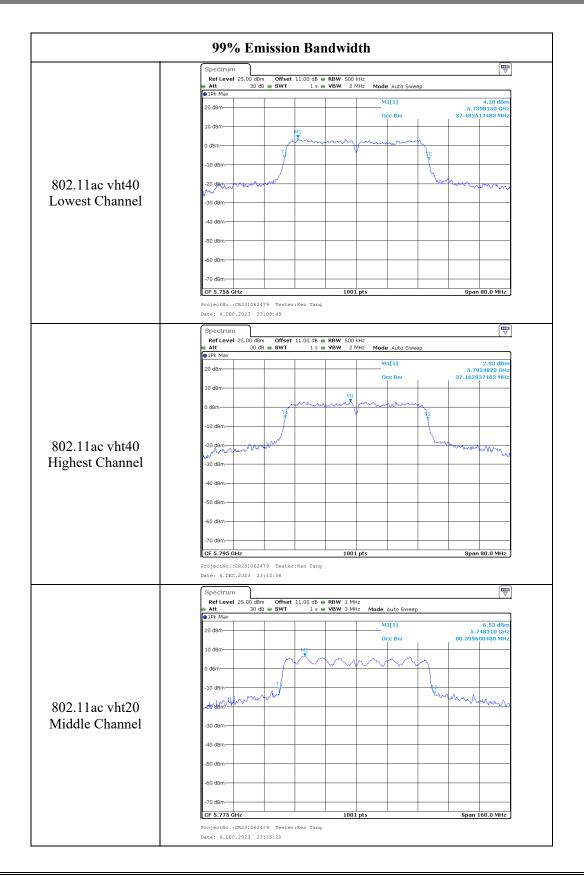


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Report No.: CR231062479-00D



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4.4 Maximum Conducted Output Power:

Serial Number:	2CPG-1	Test Date:	2023-12-04
Test Site:	RF	Test Mode:	Transmitting
Tester:	Ken Tang	Test Result:	Pass

Environmental Conditions:						
Temperature: (℃)	25.9	Relative Humidity: (%)	60	ATM Pressure: (kPa)	100.2	

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
zhuoxiang	Coaxial Cable	SMA-178	211003	Each time	N/A
eastsheep	Coaxial Attenuator	2W-SMA-JK-18G	21060302	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:

5725-5850 MHz:

Test Modes	Test Frequency (MHz)	Max. Conducted Average Output Power(dBm)		
	(11112)	Result	Limit	
	5745	9.68	30	
802.11a	5785	9.38	30	
	5825	8.84	30	
	5745	12.17	30	
802.11ac vht20	5785	11.65	30	
	5825	11.48	30	
802.11ac vht40	5755	12.65	30	
802.11ac Vnt40	5795	12.13	30	
802.11ac vht80	5775	13.68	30	

4.5 Maximum power spectral density:

Serial Number:	2CPG-1	Test Date:	2023-12-04
Test Site:	RF	Test Mode:	Transmitting
Tester:	Ken Tang	Test Result:	Pass

Environmental Conditions:					
Temperature: (°C)	25.9	Relative Humidity: (%)	60	ATM Pressure: (kPa)	100.2

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40-N	102259	2023-04-18	2024-04-17
zhuoxiang	Coaxial Cable	SMA-178	211003	Each time	N/A
eastsheep	Coaxial Attenuator	2W-SMA-JK-18G	21060302	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:

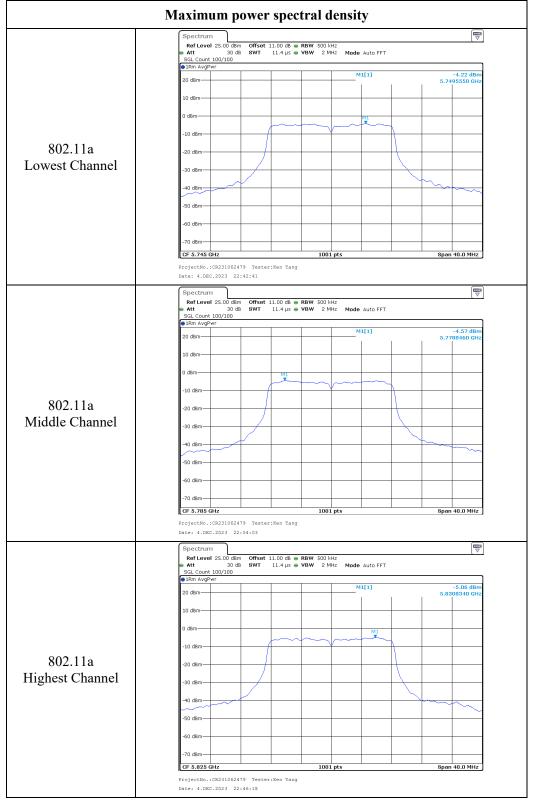
5725-5850 MHz:

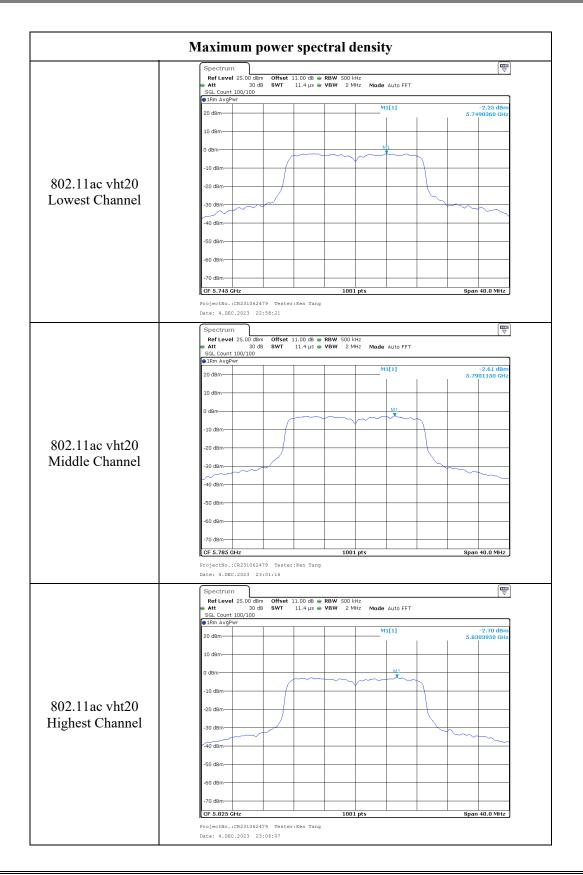
Test Modes	Test Frequency (MHz)	Reading (dBm/500kHz)	Duty Cycle Factor	Maximum Power (dBm/5	1 v
	(1.1112)	(421110001111)	(dB)	Result	Limit
	5745	-4.22	0.22	-4.00	30
802.11a	5785	-4.57	0.22	-4.35	30
	5825	-5.06	0.22	-4.84	30
	5745	-2.25	0.10	-2.15	30
802.11ac vht20	5785	-2.61	0.10	-2.51	30
	5825	-2.70	0.10	-2.60	30
90 2 111-440	5755	-4.62	0.41	-4.21	30
802.11ac vht40	5795	-4.48	0.41	-4.07	30
802.11ac vht80	5775	-4.93	0.76	-4.17	30

Note:

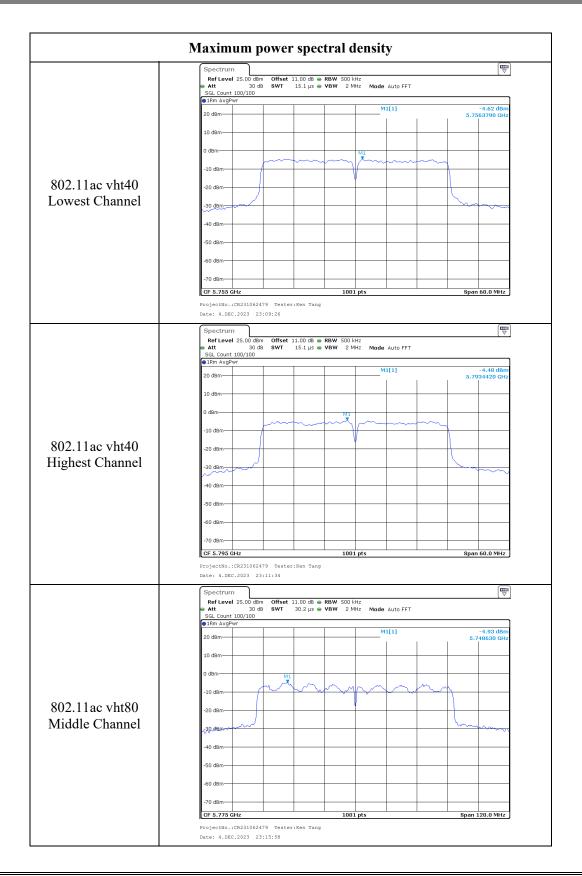
Duty cycle <98%, and duty cycle variations are less than $\pm 2\%$, method ANSI C63.10-2013 Section 12.3.2.4 was used. For Duty cycle<98%, and Duty cycle be considered to be constant(variations are less than $\pm 2\%$), the duty cycle factor was added into the result.

5725-5850MHz





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4.6 Duty Cycle:

no Duty Cyclet	-		
Serial Number:	2CPG-1	Test Date:	2023-12-07
Test Site:	RF	Test Mode:	Transmitting
Tester:	Ken Tang	Test Result:	N/A

Environmental	Conditions:				
Temperature: (℃)	25.9	Relative Humidity: (%)	60	ATM Pressure: (kPa)	100.2

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40-N	102259	2023-04-18	2024-04-17
zhuoxiang	Coaxial Cable	SMA-178	211003	Each time	N/A
eastsheep	Coaxial Attenuator	2W-SMA-JK-18G	21060302	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).

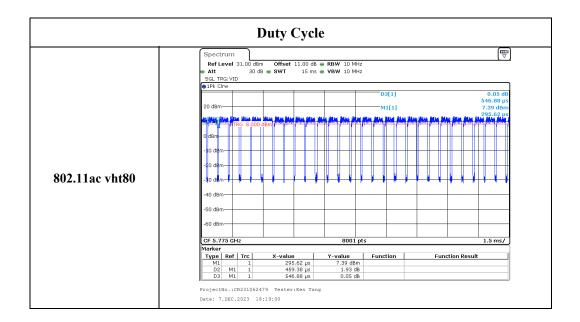
Test Data:

Test Modes	Ton (ms)	Ton+off (ms)	Duty cycle (%)	1/T (Hz)	Duty Cycle Factor (dB)	VBW Setting (Hz)
802.11a	2.063	2.168	95.16	485	0.22	500
802.11ac vht20	1.931	1.976	97.72	518	0.10	1000
802.11ac vht40	0.953	1.048	90.94	1049	0.41	3000
802.11ac vht80	0.459	0.547	83.91	2179	0.76	3000

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802.11a Sector		Duty Cycle
802.11a		Spectrum (100 dB → RBW 10 MHz) Ref Level 31.00 dB → SWT 30 dB → SWT Att 30 dB → SWT
802.11a 		SGL TRG:/VID @ IPk Clrw 00[1] 0.07 dB 20 dBm M1[1] -0.50 dBm
802.11a 00 0000000000000000000000000000000000		ent gehind ¹⁹⁶ 5.000 demot gehind te dian te dian te dan terken ter Terken terken t
Bit of the second sec	802.11a	-30 dBm
302.11ac vht20 Spectrum		-60 dBm CF 5.745 GHz 8001 pts 3.0 ms/
Spectrum Produced 1:00 dim Offset 1:00 dim Produced 2:00 dim Prod		M1 1 1.62375 ms -0.50 dBm D2 M1 1 2.0625 ms 4.15 dB D3 M1 1 2.1675 ms 0.07 dB ProjectNo.:CR231062479 Tester:Ken Tang
302.11ac vht20		Spectrum (100 m) Ref Level 31.00 dBm Offset 11.00 dB ● RBW 10 MHz ● Att 30 dB ● SWT 30 ms ● VBW 10 MHz
302.11ac vht20 ⁶⁰		
302.11ac vht40		-10 dBm-
Spectrum CF Spectrum CF Ref Level 31.00 dBm Offset 11.00 dB RBW 10 MHz 03(1) 0.074 dBm 302.11ac vht40 GF 5.753 GHz 8001 pts 2.0 ms/ Vesture	802.11ac vht20	-40 dBm
302.11ac vht40 1 1.9325 ms 2.81.db 1 1.9325 ms -0.37.db 30.db 1.1.97625 ms -0.37.db 1 1.97625 ms -0.37.db ProjectNo.:CR231062479 Tester:Ken Tang Tester:Ken Tang Tester:Ken Tang Tester:Ken Tang Date: 7.DEC.2023 20:11:31 Tester:Xen Tang Tester:Ken Tang Tester:Ken Tang Sold: Tas: vib Sold: SWT 20 ms VBW 10 MHz Sold: Tas: vib Sold: Tas: vib Sold: Tas: vib 0.96 ms N1113 1.04750 ms 20 dBm Test Sold: Table property rester: ken tang N1113 1.04750 ms 1.04750 ms 20 dBm Test Sold: Table property rester: ken tang N1113 1.04750 ms 1.04750 ms 30 dBm Test Sold: Table property rester: ken tang Test Sold: Table property rester: ken tang 1.04750 ms 1.04750 ms 30 dBm Test Sold: Table property rester: ken tang 1.04750 ms 1.04750 ms 30 dBm Test Sold: Table property rester: ken tang 1.04750 ms 1.04750 ms 30 dBm Test Sold: table property rester: ken tang 1		CF 5.745 GHz 8001 pts 3.0 ms/ Marker Type Ref Trc X-value Y-value Function Function Result
Ref Level 31.00 dBm Offset 11.00 dB RBW 10 MHz SGL TEG: VID SUT 20 ms VBW 10 MHz SILE SGL TEG: VID Image: SGL TEG: VID Image: SGL TEG: VID SILE SGL TEG: VID Image: SGL TEG: VID Image: SGL TEG: VID SILE SGL TEG: VID Image: SGL TEG: VID Image: SGL TEG: VID SILE SGL TEG: VID Image: SGL TEG: VID Image: SGL TEG: VID SILE SGL TEG: VID Image: SGL TEG: VID Image: SGL TEG: VID SILE SGL TEG: VID Image: SGL TEG: VID Image: SGL TEG: VID SILE SGL TEG: VID Image: SGL TEG: VID Image: SGL TEG: VID SILE SGL TEG: VID Image: SGL TEG: VID Image: SGL TEG: VID Image: SGL TEG: VID SILE SGL TEG: VID Image: SGL TEG: VID Image: SGL TEG: VID Image: SGL TEG: VID Image: SGL TEG: VID SILE SGL TEG: VID SGL TEG: VID Image: SGL TEG: VID Image: SGL TEG: VID Image: SGL TEG: VID SILE SGL TEG: VID SGL TEG: VID SGL TEG: VID Image: SGL TEG: VID Image: S		D2 M1 1 1.93125 ms 2.81 dB D3 M1 1 1.97625 ms -0.37 dB ProjectNo.:CR231062479 Tester:Ken Tang
302.11ac vht40 -0.96 db		Ref Level 31.00 dBm Offset 11.00 dB RBW 10 MHz ● Att 30 dB SGL TRG:VID SGL TRG:VID 20 ms • VBW 10 MHz
302.11ac vht40 -D d8m D d8m		20 dBm 03[1] -0.96 dB 20 dBm 1.04750 ms 30 dBm 0.104750 ms 30 dBm 0.104750 ms 30 dBm 0.104750 ms
-40 dBm -50 dBm <t< td=""><th>802 11ac yht40</th><td>-10 d8n</td></t<>	802 11ac yht40	-10 d8n
CF 5.755 GHz 8001 pts 2.0 ms/ Marker Type Ref Trc X-value Function Function Result M1 1 447.5 µs 1.074 dbm 1.074 dbm 1.09 db 02 M1 1 952.5 µs 1.89 db 1.89 db	002.11ac viit40	-40 d8m
D3 M1 1 1.0475 ms -0.96 dB		Type Ref Trc X-value Function Function Result M1 1 447.5 µs 10.74 dBm 0.0 Hz 1.89 dB

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5. EUT PHOTOGRAPHS

Please refer to the attachment CR231062479-EXP EUT EXTERNAL PHOTOGRAPHS and CR231062479-INP EUT INTERNAL PHOTOGRAPHS

6. TEST SETUP PHOTOGRAPHS

Please refer to the attachment CR231062479-00D-TSP TEST SETUP PHOTOGRAPHS.

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