



中认信通

CHINA CERTIFICATION ICT CO., LTD (DONGGUAN)



TEST REPORT

Applicant: Planet Avvio LLC

Address: 7411 W. CYPRESSHEAD DR, PARKLAND, FLORIDA, United States
33067

FCC ID: 2ALTARA680

Product Name: Smart phone

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: CR231272455-00D

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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	CR231272455-00D	Original Report	2024/1/8

1. GENERAL INFORMATION

1.1 Product Description for Equipment under Test (EUT)

1.1.1 General:

EUT Name:	Smart phone
EUT Model:	AVVIO A680
Operation Frequency:	5180-5240 MHz (802.11a/n ht20/ac vht20) 5190-5230 MHz (802.11n ht40/ac vht40) 5210 MHz (802.11ac vht80) 5260-5320 MHz (802.11a/n ht20/ac vht20) 5270-5310 MHz(802.11n ht40/ac vht40) 5290 MHz(802.11ac vht80) 5500-5700 MHz (802.11a/n ht20/ac vht20) 5510-5670 MHz(802.11n ht40/vht40) 5530-5610MHz(802.11ac vht80) 5745-5825 MHz (802.11a/n ht20/ac vht20) 5755-5795 MHz (802.11n ht40/ac vht40) 5775MHz(802.11ac vht80)
Maximum Average Output Power (Conducted):	12.82dBm (5150-5250 MHz) 12.74dBm (5250-5350 MHz) 7.21dBm (5470-5725 MHz) 11.8dBm (5725-5850 MHz)
Modulation Type:	OFDM-BPSK, QPSK, 16QAM, 64QAM,256QAM
Rated Input Voltage:	DC 5V from Adapter or 3.87V from battery
Serial Number:	CE&RE:2EOC-3;RF:2EOC-1
EUT Received Date:	2023/12/4
EUT Received Status:	Good

1.1.2 Operation Frequency Detail:

For 802.11a/n ht20/n ht40/ac vht20/ac vht40/ac vht80:

5150-5250MHz Band 1		5250-5350MHz Band 2	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	52	5260
38	5190	54	5270
40	5200	56	5280
42	5210	58	5290
44	5220	60	5300
46	5230	62	5310
48	5240	64	5320

5475-5725MHz Band 3			
Channel	Frequency (MHz)	Channel	Frequency (MHz)
100	5500	122	5610
102	5510	124	5620
104	5520	126	5630
106	5530	128	5640
108	5540	130	5650
110	5550	132	5660
112	5560	134	5670
116	5580	136	5680
118	5590	138	5690
120	5600	140	5700
5725-5850MHz Band 4			
Channel	Frequency (MHz)	Channel	Frequency (MHz)
149	5745	157	5785
151	5755	159	5795
153	5765	161	5805
155	5775	165	5825

1.1.3 Antenna Information Detail ▲ :

Antenna Type	input impedance (Ohm)	Frequency Range	Antenna Gain (dBi)
FPC	50	5.15~5.25GHz	-0.41dBi
FPC	50	5.25~5.35GHz	-0.68dBi
FPC	50	5.47~5.725GHz	-1.2dBi
FPC	50	5.15~5.85GHz	-0.84dBi

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	S/N
Adapter	Avvio	BCT050200-078EU	Input: 100-240V~50/60Hz 0.3A Output: 5V/2A	/

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:	***#3646633***

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 (MHz)	Data rate	Power Level Setting
802.11a	Lowest	5180	6Mbps	16
	Middle	5200	6Mbps	16
	Highest	5240	6Mbps	16
802.11 n ht20	Lowest	5180	MCS0	16
	Middle	5200	MCS0	16
	Highest	5240	MCS0	16
802.11 n ht40	Lowest	5190	MCS0	16
	Highest	5230	MCS0	16
802.11ac vht80	Middle	5210	MCS0	16

5250-5350 MHz Band:

Test Modes	Test Channels	Test Frequency	Data rate	Power Level Setting
802.11a	Lowest	5260	6Mbps	16
	Middle	5280	6Mbps	16
	Highest	5320	6Mbps	16
802.11n ht20	Lowest	5260	MCS0	16
	Middle	5280	MCS0	16
	Highest	5320	MCS0	16
802.11n ht40	Lowest	5270	MCS0	16
	Highest	5310	MCS0	16
802.11ac vht80	Middle	5290	MCS0	16

5470-5725 MHz Band:

Test Modes	Test Channels	Test Frequency	Data rate	Power Level Setting
802.11a	Lowest	5500	6Mbps	12
	Middle	5580	6Mbps	12
	Highest	5700	6Mbps	12
802.11n ht20	Lowest	5500	MCS0	12
	Middle	5580	MCS0	12
	Highest	5700	MCS0	12
802.11n ht40	Lowest	5510	MCS0	12
	Highest	5550	MCS0	12
802.11ac vht80	Lowest	5670	MCS0	12
	Highest	5610	MCS0	12

5725-5850 MHz Band:				
Test Modes	Test Channels	Test Frequency (MHz)	Data rate	Power Level Setting
802.11a	Lowest	5745	6Mbps	16
	Middle	5785	6Mbps	16
	Highest	5825	6Mbps	16
802.11 n ht20	Lowest	5745	MCS0	16
	Middle	5785	MCS0	16
	Highest	5825	MCS0	16
802.11 n ht40	Lowest	5755	MCS0	16
	Highest	5795	MCS0	16
802.11ac vht80	Middle	5775	MCS0	16

Note:
The system support 802.11a/n ht20/n ht40/ac vht20/vht40/vht80, the vht20/vht40 were reduced since the identical parameters with 802.11n ht20 and ht40.
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.
The device only support SISO mode.

1.2.2 Support Equipment List and Details

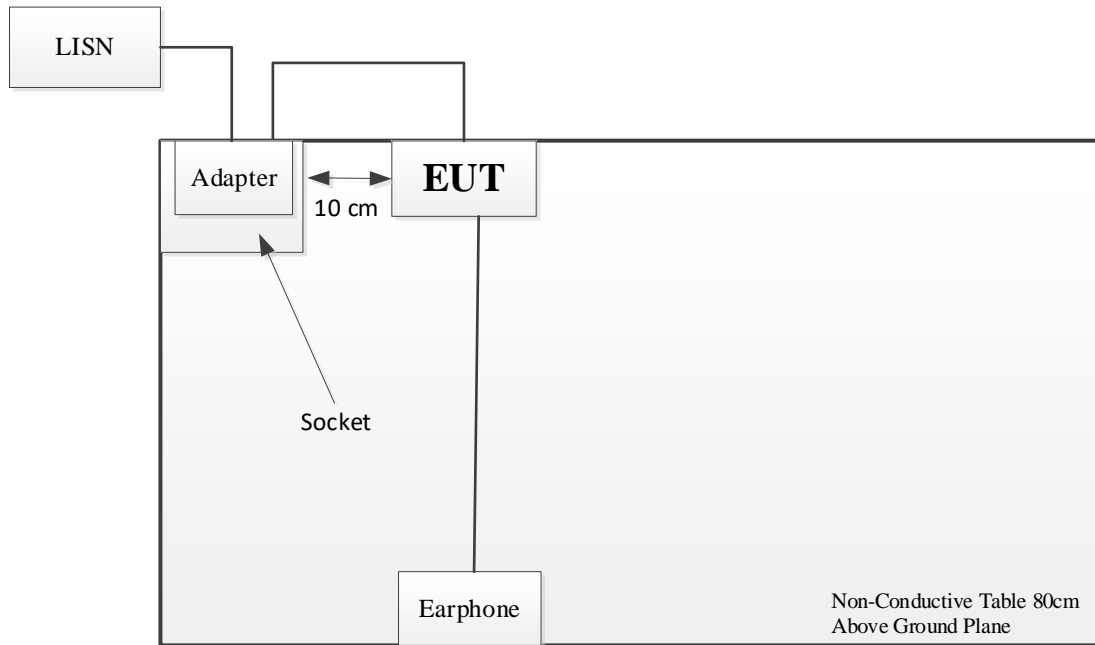
Manufacturer	Description	Model	Serial Number
Avvio	Adapter	BCT050200-078EU	BCT020231128
CLC	Earphone	Whiteview5.0	EP21106054
Unknown	Socket	Unknown	Unknown

1.2.3 Support Cable List and Details

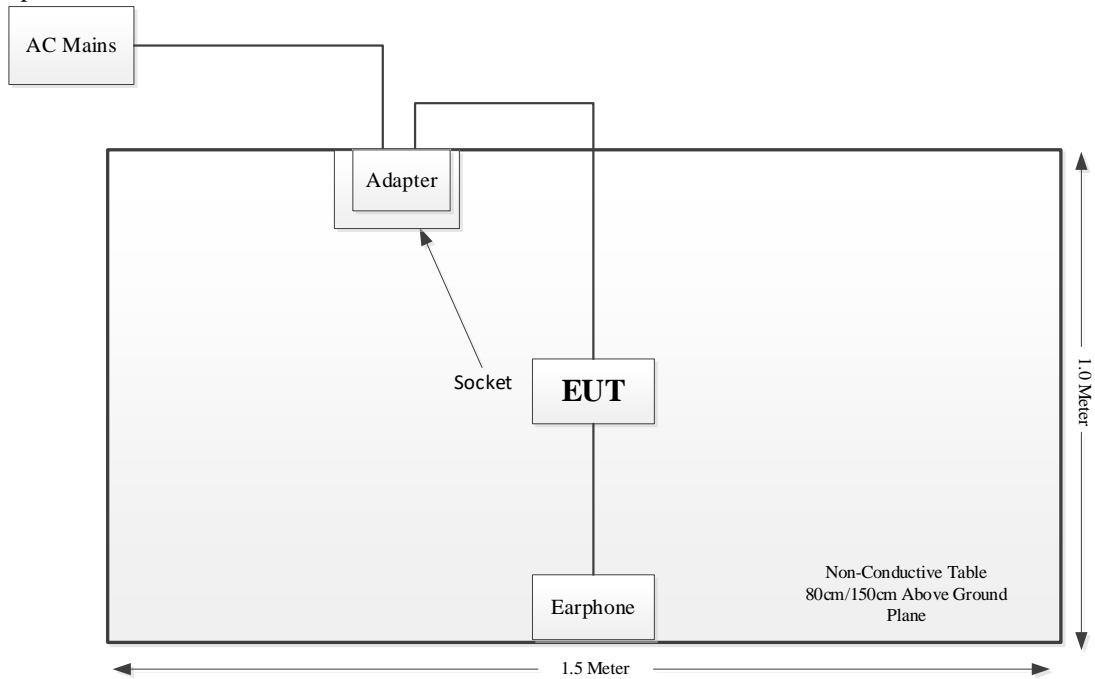
Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	To
Power Cable	NO	NO	0.8	Adapter	EUT
Earphone Cable	NO	NO	1	Adapter	EUT

1.2.4 Block Diagram of Test Setup

AC line conducted emissions:



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	9k~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 °C
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)	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)	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:

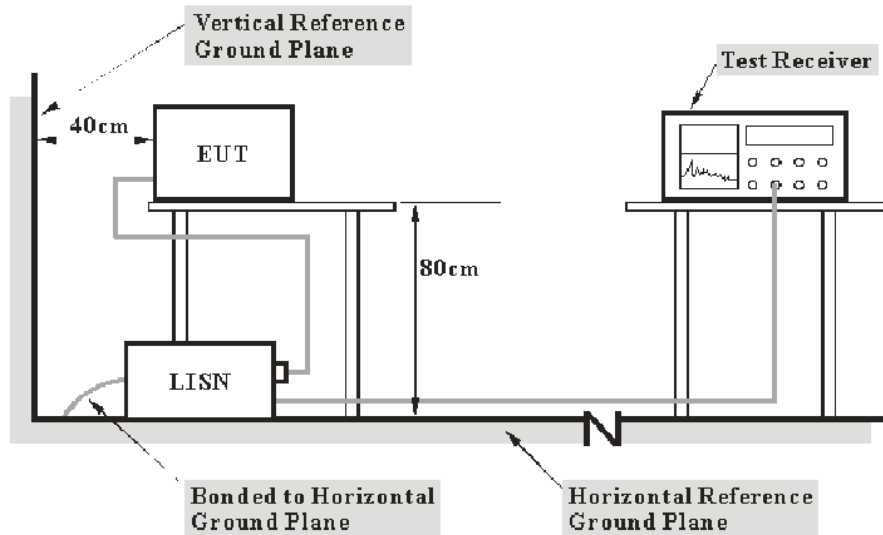
(1) For carrier current system containing their fundamental emission within the frequency band 535-1705 kHz and intended to be received using a standard AM broadcast receiver: no limit on conducted emissions.

(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.

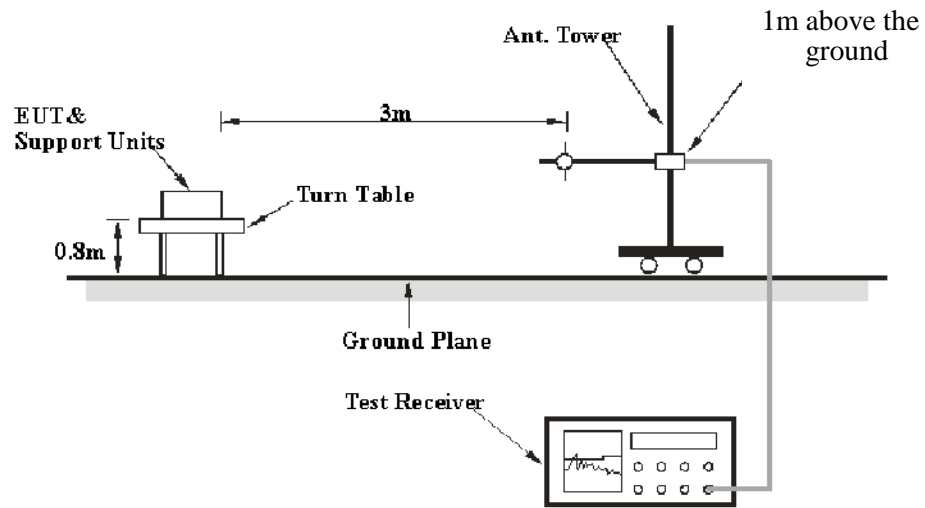
(10) The provisions of § 15.205 apply to intentional radiators operating under this section.

(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.

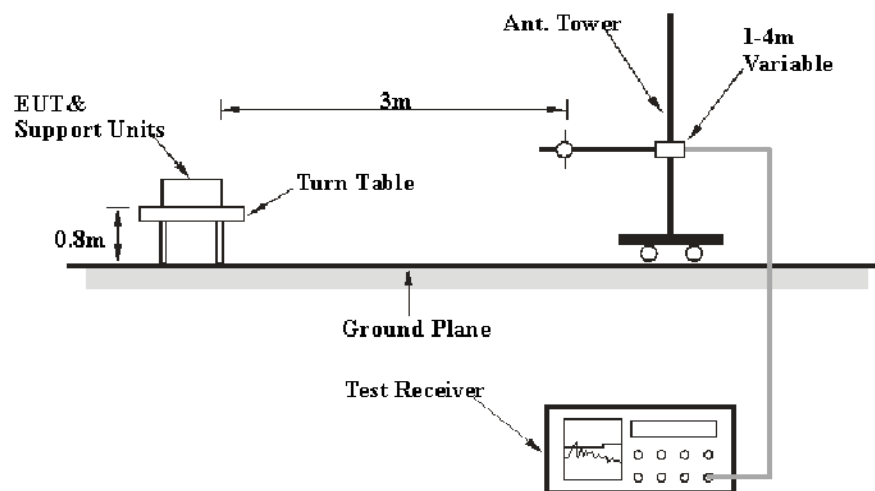
(c) The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signalling information or the use of repetitive codes used by certain digital technologies 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

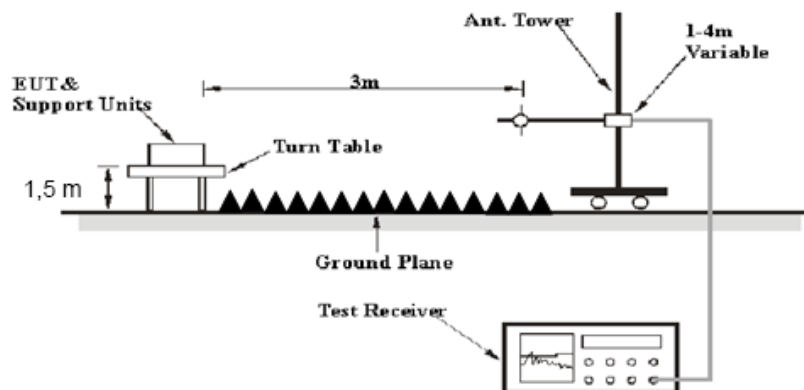
9 kHz-30MHz:



30MHz-1GHz:



1-40 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.

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
	300 Hz	1 kHz	/	PK
150 kHz – 30 MHz	/	/	9 kHz	QP
	10 kHz	30 kHz	/	PK
30 MHz – 1000 MHz	/	/	120 kHz	QP
	100 kHz	300 kHz	/	PK

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.

The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, emission shall be computed as: $E [dB\mu V/m] = EIRP[dBm] + 95.2$, for $d = 3$ meters.

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:

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

For 30MHz-1GHz:

$$\text{Result} = \text{Reading} + \text{Factor}$$

For 1GHz-40GHz

$$\text{Result} = \text{Reading} + \text{Factor} - \text{Distance extrapolation Factor}$$

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:

$$\text{Margin} = \text{Limit} - \text{Result}$$

3.3 Emission Bandwidth

3.3.1 Applicable Standard

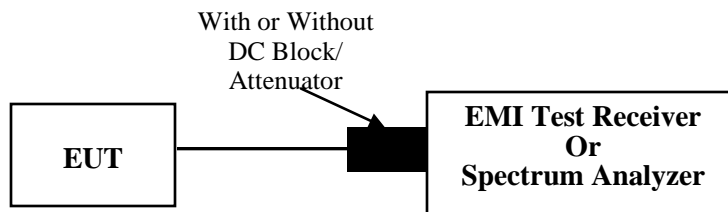
FCC §15.407 (a),(h)

(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

26dB Emission Bandwidth:

According to ANSI C63.10-2013 Section 12.4.1

- a) Set RBW = approximately 1% of the emission bandwidth.
- b) Set the VBW > RBW.
- c) Detector = peak.
- d) Trace mode = max hold
- e) Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the instrument. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

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) ≥ 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) (1)(iv)

For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. 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.

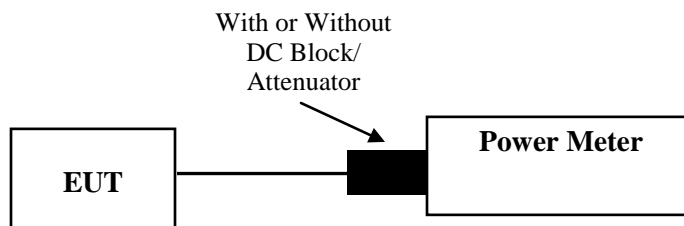
FCC §15.407(a) (2)

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 12.3.3.1

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)(iv)

For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. 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.

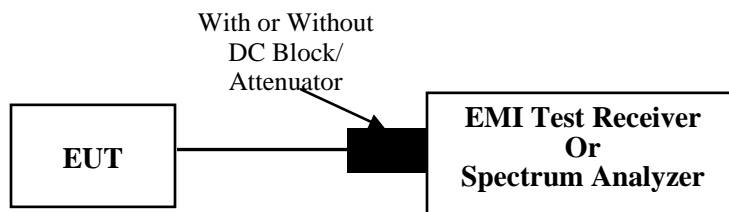
FCC §15.407(a) (2)

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 $\pm 2\%$

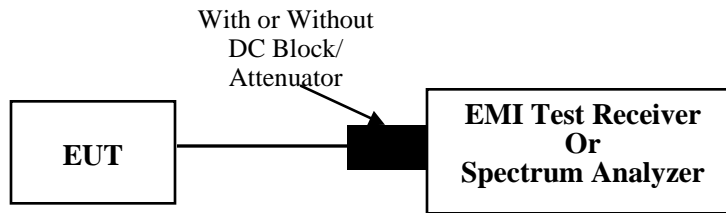
KDB 789033 D02 General UNII Test Procedures New Rules v02r01 Method SA-2 should be applied.

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.

3.7 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 $VBW \geq RBW$. 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 $T \leq 16.7 \mu s$.)

3.8 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:	2EOC-3	Test Date:	2023/12/28
Test Site:	CE	Test Mode:	Transmitting
Tester:	David Huang	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	21.6	Relative Humidity: (%)	45	ATM Pressure: (kPa)	101.6
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Test Equipment List and Details:

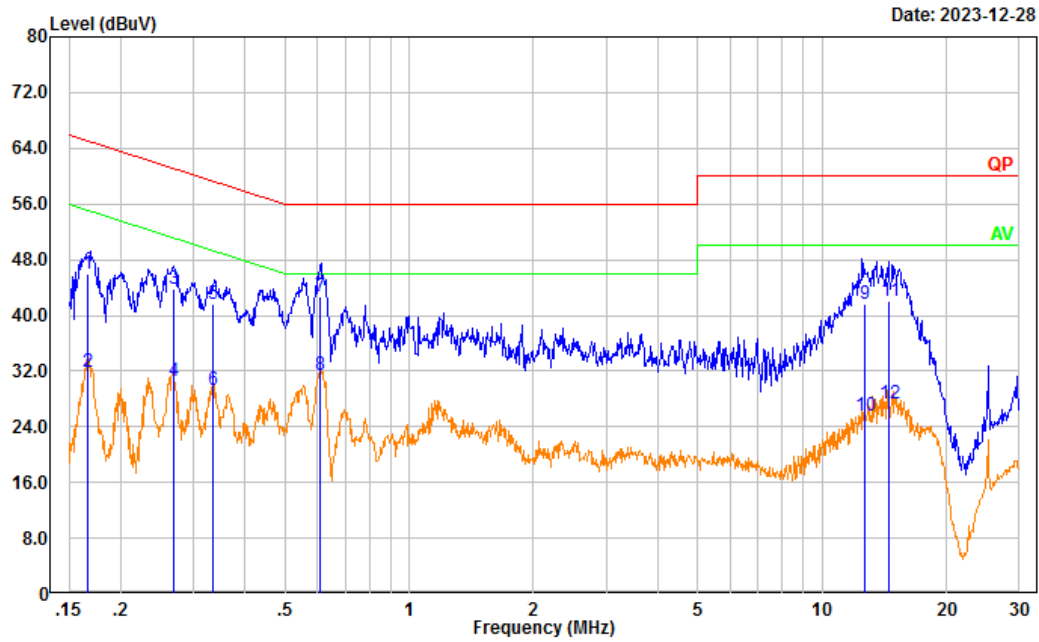
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	LISN	ENV216	101134	2023/3/31	2024/3/30
R&S	EMI Test Receiver	ESR3	102726	2023/3/31	2024/3/30
MICRO-COAX	Coaxial Cable	UTIFLEX	C-0200-01	2023/8/6	2024/8/5
Audix	Test Software	E3	190306 (V9)	N/A	N/A

* 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:

Provides 802.11a band1 low channel test results at 0.15MHz-30MHz recorded. (highest power for Conducted Output Power).

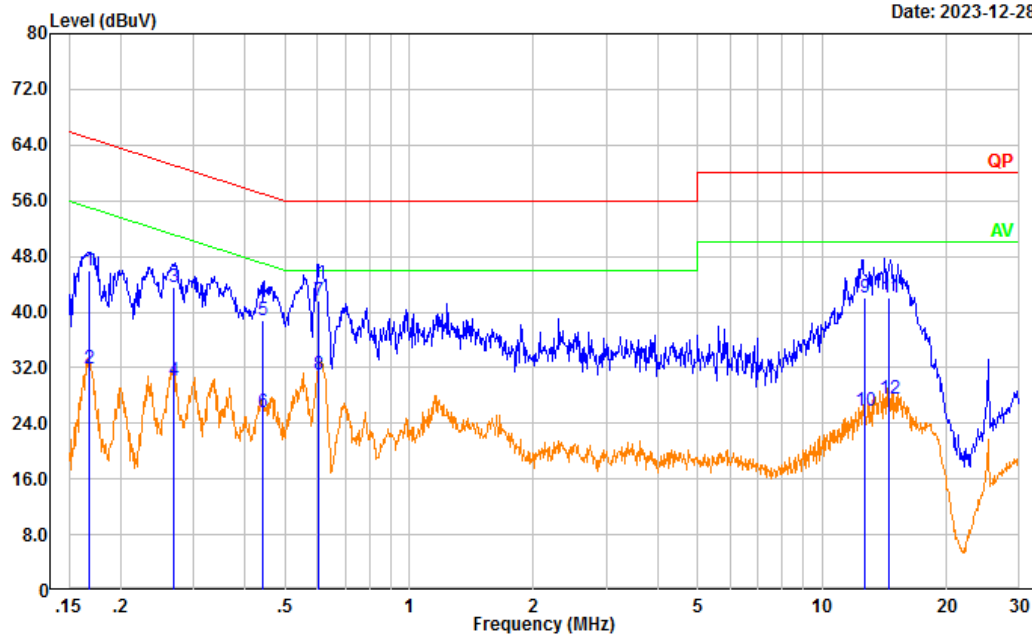
Project No.: CR231272455-RF
 Tester: David Huang
 Port: Line
 Note: Transmitting(5G WIFI)



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.167	36.39	9.61	46.00	65.12	19.12	QP
2	0.167	22.26	9.61	31.87	55.12	23.25	Average
3	0.268	34.11	9.61	43.72	61.17	17.45	QP
4	0.268	20.90	9.61	30.51	51.17	20.66	Average
5	0.336	32.07	9.61	41.68	59.31	17.63	QP
6	0.336	19.55	9.61	29.16	49.31	20.15	Average
7	0.610	33.10	9.62	42.72	56.00	13.28	QP
8	0.610	21.85	9.62	31.47	46.00	14.53	Average
9	12.707	31.92	9.68	41.60	60.00	18.40	QP
10	12.707	15.90	9.68	25.58	50.00	24.42	Average
11	14.557	32.31	9.69	42.00	60.00	18.00	QP
12	14.557	17.73	9.69	27.42	50.00	22.58	Average

Project No.: CR231272455-RF
 Tester: David Huang
 Port: neutral
 Note: Transmitting(5G WIFI)

Date: 2023-12-28



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.168	36.36	9.61	45.97	65.05	19.08	QP
2	0.168	22.23	9.61	31.84	55.05	23.21	Average
3	0.270	34.02	9.61	43.63	61.12	17.49	QP
4	0.270	20.53	9.61	30.14	51.12	20.98	Average
5	0.444	29.11	9.61	38.72	56.99	18.27	QP
6	0.444	15.97	9.61	25.58	46.99	21.41	Average
7	0.603	32.08	9.62	41.70	56.00	14.30	QP
8	0.603	21.35	9.62	30.97	46.00	15.03	Average
9	12.687	32.29	9.68	41.97	60.00	18.03	QP
10	12.687	16.03	9.68	25.71	50.00	24.29	Average
11	14.523	32.34	9.69	42.03	60.00	17.97	QP
12	14.523	17.80	9.69	27.49	50.00	22.51	Average

4.2 Radiation Spurious Emissions

Serial Number:	2EOC-3	Test Date:	2023/12/24~2023/12/30
Test Site:	966-1, 966-2	Test Mode:	Transmitting
Tester:	Jeff Luo, Coco Tian	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	24.6~25	Relative Humidity: (%)	42~55	ATM Pressure: (kPa)	101~101.4
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Radiation Spurious Emissions (Below 1GHz)					
Sunol Sciences	Antenna	JB6	A082520-6	2023/9/18	2026/9/17
BACL	Loop Antenna	1313-1P	3092721	2023/10/20	2026/10/19
R&S	EMI Test Receiver	ESR3	102724	2023/3/31	2024/3/30
TIMES MICROWAVE	Coaxial Cable	LMR-600- UltraFlex	C-0470-02	2023/7/16	2024/7/15
TIMES MICROWAVE	Coaxial Cable	LMR-600- UltraFlex	C-0780-01	2023/7/16	2024/7/15
Sonoma	Amplifier	310N	186165	2023/7/16	2024/7/15
Audix	Test Software	E3	201021 (V9)	N/A	N/A
Radiation Spurious Emissions (Above 1GHz)					
AH	Double Ridge Guide Horn Antenna	SAS-571	1394	2023/2/22	2026/2/21
R&S	Spectrum Analyzer	FSV40	101591	2023/3/31	2024/3/30
MICRO-COAX	Coaxial Cable	UFA210A-1- 1200-70U300	217423-008	2023/8/6	2024/8/5
MICRO-COAX	Coaxial Cable	UFA210A-1- 2362-300300	235780-001	2023/8/6	2024/8/5
Mini	Pre-amplifier	ZVA-183-S+	5969001149	2023/11/8	2024/11/7
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.

Note: The amplitude of spurious emissions from intentional radiators and emissions from unintentional radiators which are attenuated more than 20 dB below the permissible value need not be reported unless specifically required elsewhere in this part.

0.009MHz-30MHz false emission is more than 20dB below the limit value. No test results were recorded. (Test Mode: 802.11a band1/2/3 mode and 802.11 n40 band 4, loop antenna position: parallel)

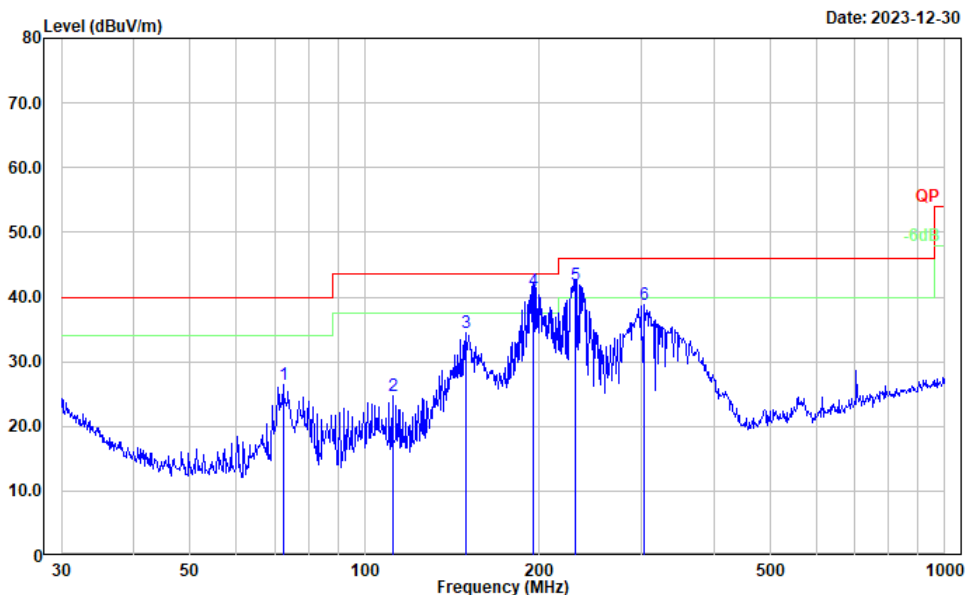
Provides 802.11a band1/2/3 mode and 802.11 n40 band 4 test results at 30MHz-1GHz recorded. (highest power for Conducted Output Power)

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

Radiation Spurious Emissions from 1 to 25GHz provides test results and test plots(Only the test plot with the smallest harmonic margin is provided) for sideband and harmonics of the Y-axis.

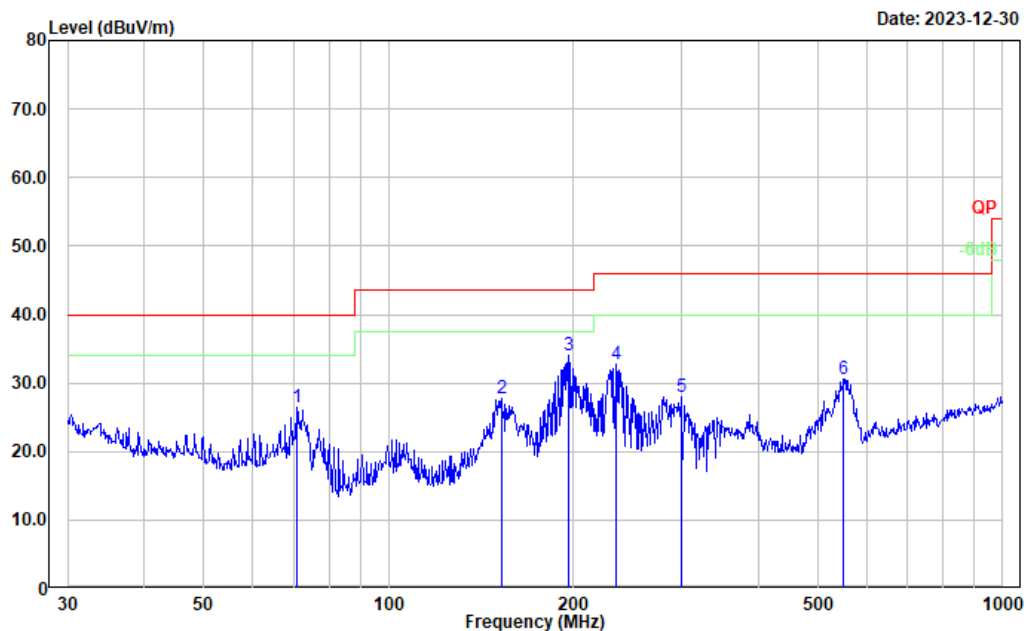
1) 30MHz-1GHz
Tested at 5150-5250
 Low Channel

Project No.: CR231272455-RF
 Tester: Jeff Luo
 Polarization: horizontal
 Note: Transmitting(5G WIFI(5150-5250 MHz))



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	72.338	43.65	-17.14	26.51	40.00	13.49	Peak
2	111.738	37.17	-12.53	24.64	43.50	18.86	Peak
3	149.486	46.78	-12.22	34.56	43.50	8.94	Peak
4	195.137	54.23	-13.17	41.06	43.50	2.44	QP
5	230.907	55.14	-13.34	41.80	46.00	4.20	QP
6	303.544	49.86	-10.98	38.88	46.00	7.12	Peak

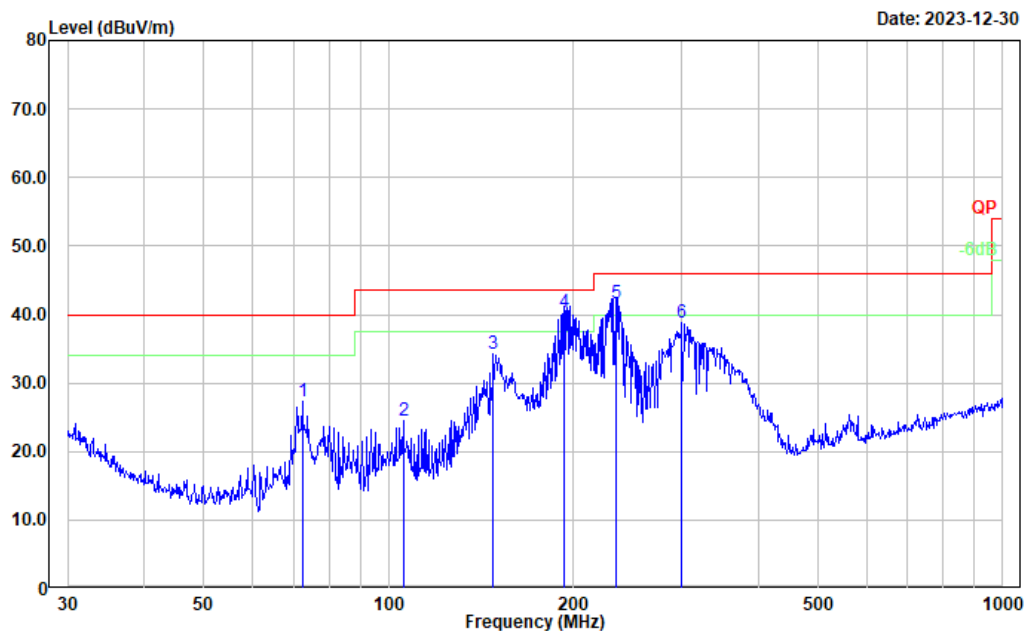
Project No.: CR231272455-RF
 Tester: Jeff Luo
 Polarization: vertical
 Note: Transmitting(5G WIFI(5150-5250 MHz))



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	70.832	43.41	-17.00	26.41	40.00	13.59	Peak
2	152.664	40.02	-12.26	27.76	43.50	15.74	Peak
3	196.510	46.96	-13.00	33.96	43.50	9.54	Peak
4	234.168	46.07	-13.41	32.66	46.00	13.34	Peak
5	299.316	39.09	-11.08	28.01	46.00	17.99	Peak
6	550.948	36.69	-6.17	30.52	46.00	15.48	Peak

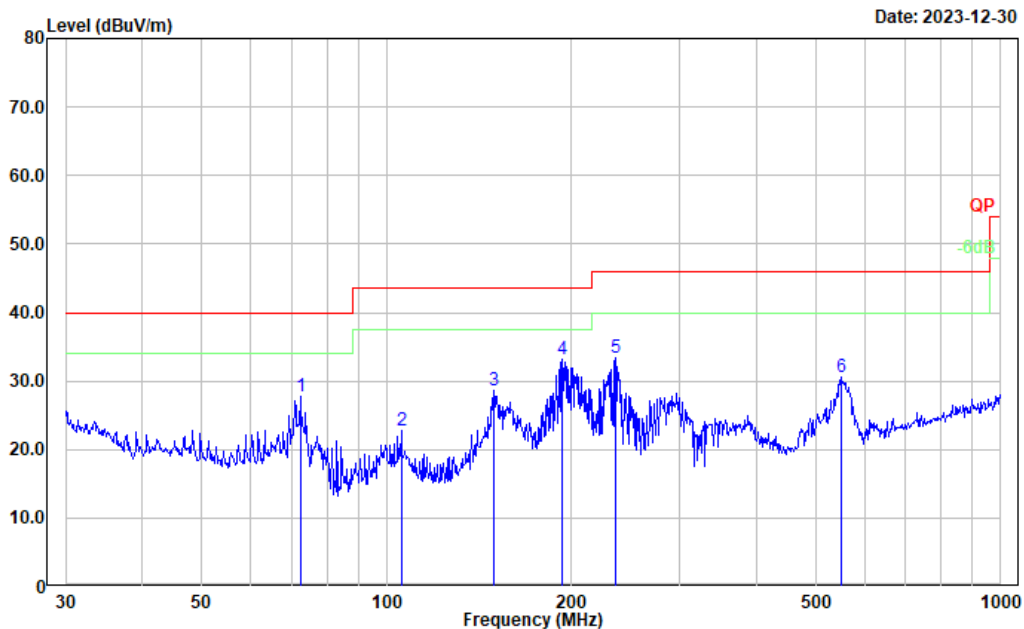
Middle Channel

Project No.: CR231272455-RF
 Tester: Jeff Luo
 Polarization: horizontal
 Note: Transmitting(5G WIFI(5150-5250 MHz))



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	72.338	44.53	-17.14	27.39	40.00	12.61	Peak
2	105.642	38.11	-13.54	24.57	43.50	18.93	Peak
3	147.921	46.37	-12.20	34.17	43.50	9.33	Peak
4	193.095	53.66	-13.41	40.25	43.50	3.25	QP
5	234.168	54.94	-13.41	41.53	46.00	4.47	QP
6	300.367	49.88	-11.05	38.83	46.00	7.17	Peak

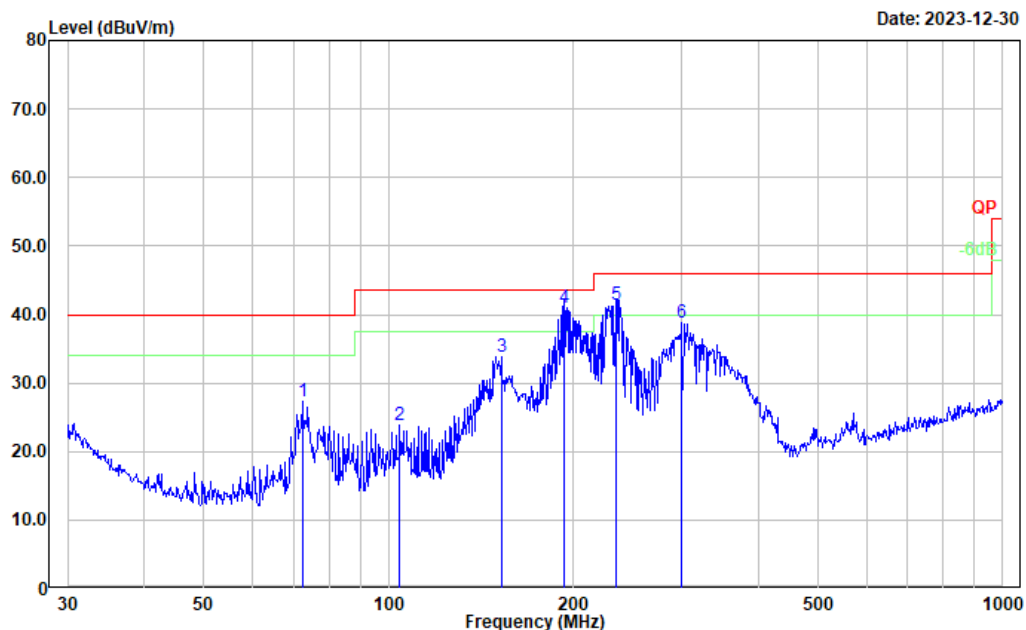
Project No.: CR231272455-RF
 Tester: Jeff Luo
 Polarization: vertical
 Note: Transmitting(5G WIFI(5150-5250 MHz))



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	72.338	44.79	-17.14	27.65	40.00	12.35	Peak
2	105.642	36.37	-13.54	22.83	43.50	20.67	Peak
3	149.486	40.89	-12.22	28.67	43.50	14.83	Peak
4	193.095	46.51	-13.41	33.10	43.50	10.40	Peak
5	235.816	46.94	-13.45	33.49	46.00	12.51	Peak
6	550.948	36.84	-6.17	30.67	46.00	15.33	Peak

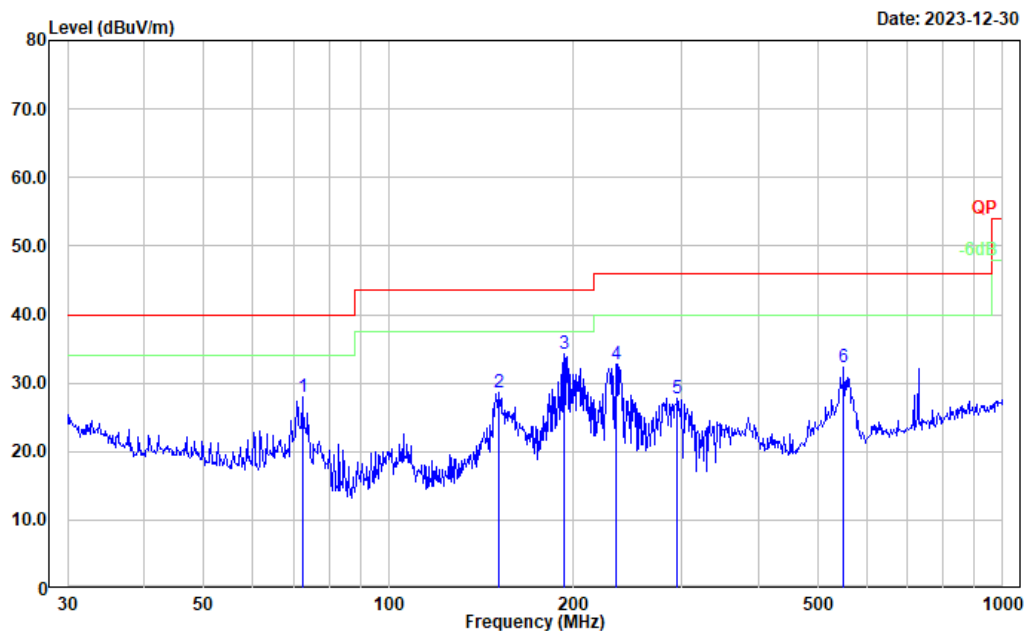
High Channel

Project No.: CR231272455-RF
 Tester: Jeff Luo
 Polarization: horizontal
 Note: Transmitting(5G WIFI(5150-5250 MHz))



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	72.338	44.36	-17.14	27.22	40.00	12.78	Peak
2	104.170	37.60	-13.80	23.80	43.50	19.70	Peak
3	152.664	46.16	-12.26	33.90	43.50	9.60	Peak
4	193.095	54.47	-13.41	41.06	43.50	2.44	QP
5	234.168	54.74	-13.41	41.33	46.00	4.67	QP
6	300.367	49.88	-11.05	38.83	46.00	7.17	Peak

Project No.: CR231272455-RF
 Tester: Jeff Luo
 Polarization: vertical
 Note: Transmitting(5G WIFI(5150-5250 MHz))

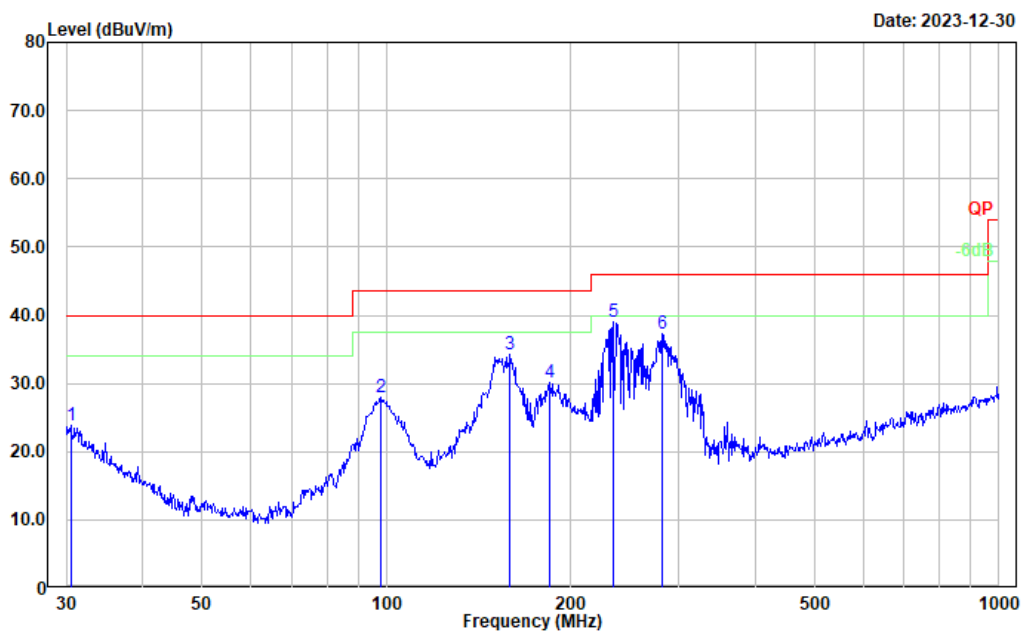


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	72.338	45.12	-17.14	27.98	40.00	12.02	Peak
2	151.067	40.96	-12.27	28.69	43.50	14.81	Peak
3	193.095	47.68	-13.41	34.27	43.50	9.23	Peak
4	234.168	46.26	-13.41	32.85	46.00	13.15	Peak
5	295.147	39.09	-11.26	27.83	46.00	18.17	Peak
6	550.948	38.45	-6.17	32.28	46.00	13.72	Peak

Tested at 5250-5350

Low Channel

Project No.: CR231272455-RF
 Tester: Jeff Luo
 Polarization: horizontal
 Note: Transmitting(5G WIFI(5250-5350 MHz))

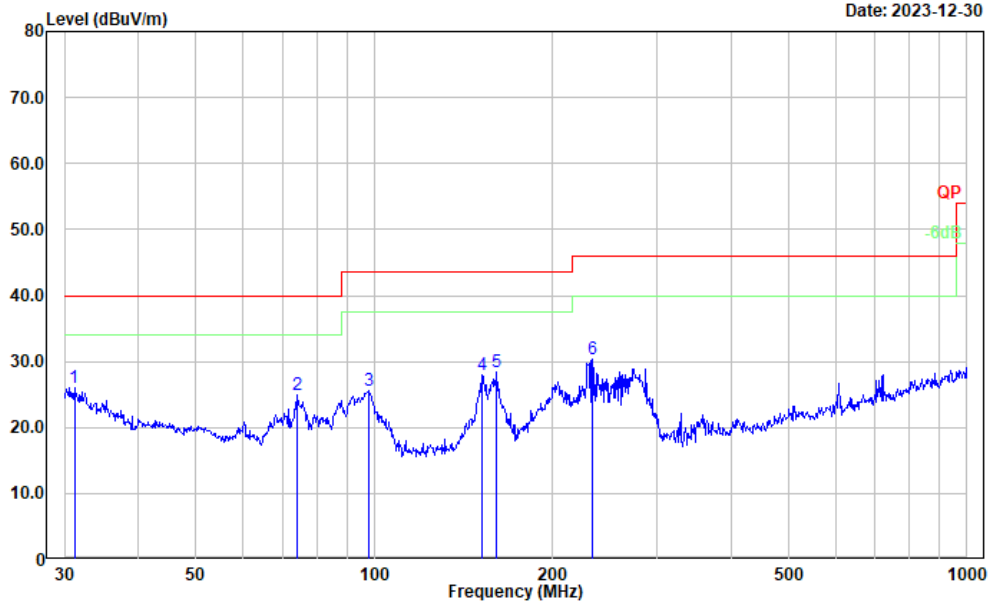


Date: 2023-12-30

No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.531	27.94	-4.18	23.76	40.00	16.24	Peak
2	98.142	43.09	-15.05	28.04	43.50	15.46	Peak
3	159.225	46.16	-11.95	34.21	43.50	9.29	Peak
4	185.138	43.91	-13.78	30.13	43.50	13.37	Peak
5	234.991	52.02	-13.02	39.00	46.00	7.00	Peak
6	281.995	48.11	-10.79	37.32	46.00	8.68	Peak

Project No.: CR231272455-RF
 Tester: Jeff Luo
 Polarization: vertical
 Note: Transmitting(5G WIFI(5250-5350 MHz))

Date: 2023-12-30

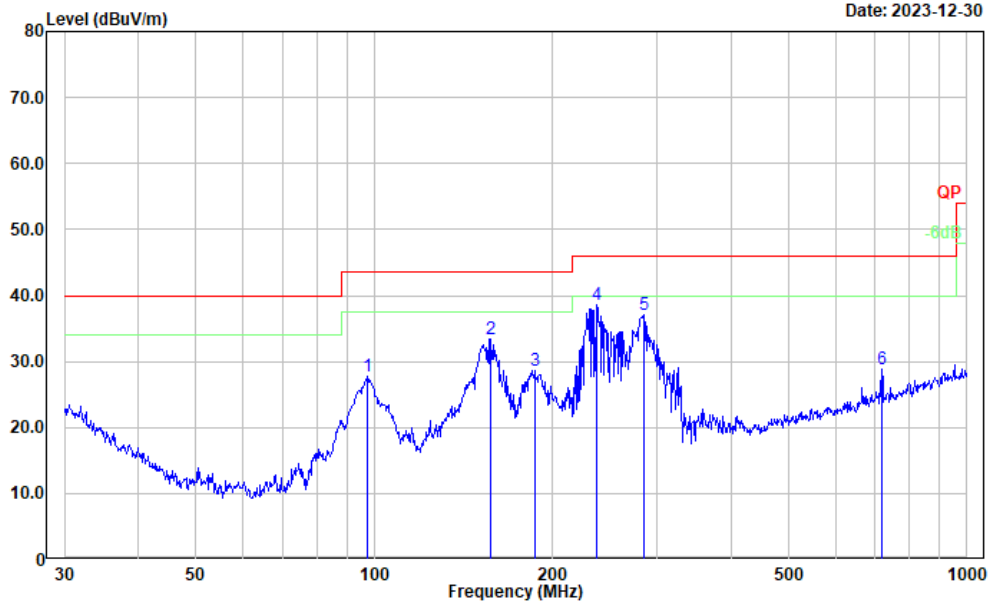


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	31.180	30.51	-4.60	25.91	40.00	14.09	Peak
2	74.135	42.14	-17.18	24.96	40.00	15.04	Peak
3	97.798	40.70	-15.13	25.57	43.50	17.93	Peak
4	151.597	40.14	-12.18	27.96	43.50	15.54	Peak
5	160.909	40.25	-11.95	28.30	43.50	15.20	Peak
6	233.349	43.41	-13.09	30.32	46.00	15.68	Peak

Middle Channel

Project No.: CR231272455-RF
 Tester: Jeff Luo
 Polarization: horizontal
 Note: Transmitting(5G WIFI(5250-5350 MHz))

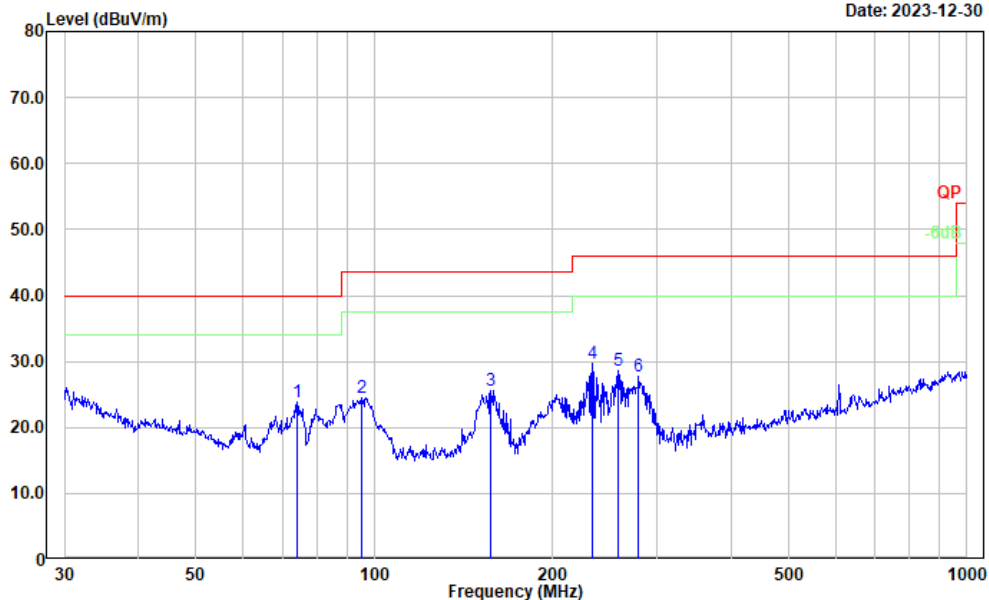
Date: 2023-12-30



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	97.456	43.04	-15.20	27.84	43.50	15.66	Peak
2	157.559	45.23	-11.86	33.37	43.50	10.13	Peak
3	186.441	42.45	-13.78	28.67	43.50	14.83	Peak
4	236.645	51.54	-12.94	38.60	46.00	7.40	Peak
5	284.977	47.64	-10.65	36.99	46.00	9.01	Peak
6	716.682	31.66	-2.76	28.90	46.00	17.10	Peak

Project No.: CR231272455-RF
 Tester: Jeff Luo
 Polarization: vertical
 Note: Transmitting(5G WIFI(5250-5350 MHz))

Date: 2023-12-30

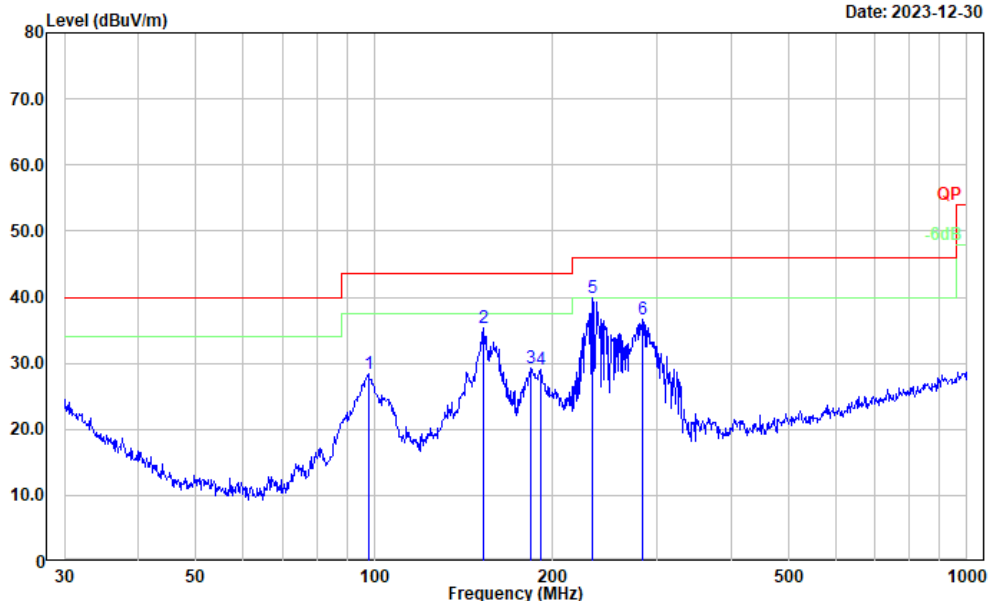


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	74.135	40.94	-17.18	23.76	40.00	16.24	Peak
2	95.427	40.34	-15.88	24.46	43.50	19.04	Peak
3	157.559	37.40	-11.86	25.54	43.50	17.96	Peak
4	233.349	42.88	-13.09	29.79	46.00	16.21	Peak
5	257.422	40.93	-12.25	28.68	46.00	17.32	Peak
6	279.044	38.71	-10.88	27.83	46.00	18.17	Peak

High Channel

Project No.: CR231272455-RF
 Tester: Jeff Luo
 Polarization: horizontal
 Note: Transmitting(5G WIFI(5250-5350 MHz))

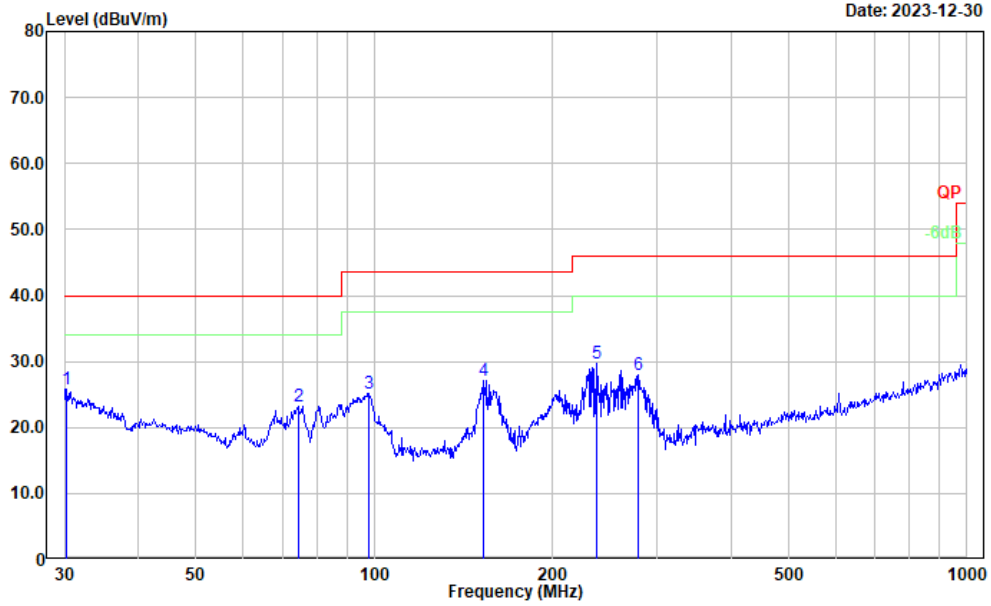
Date: 2023-12-30



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	97.798	43.60	-15.13	28.47	43.50	15.03	Peak
2	153.200	47.53	-12.17	35.36	43.50	8.14	Peak
3	183.201	43.03	-13.70	29.33	43.50	14.17	Peak
4	191.074	42.60	-13.55	29.05	43.50	14.45	Peak
5	233.349	52.95	-13.09	39.86	46.00	6.14	Peak
6	283.979	47.38	-10.69	36.69	46.00	9.31	Peak

Project No.: CR231272455-RF
 Tester: Jeff Luo
 Polarization: vertical
 Note: Transmitting(5G WIFI(5250-5350 MHz))

Date: 2023-12-30

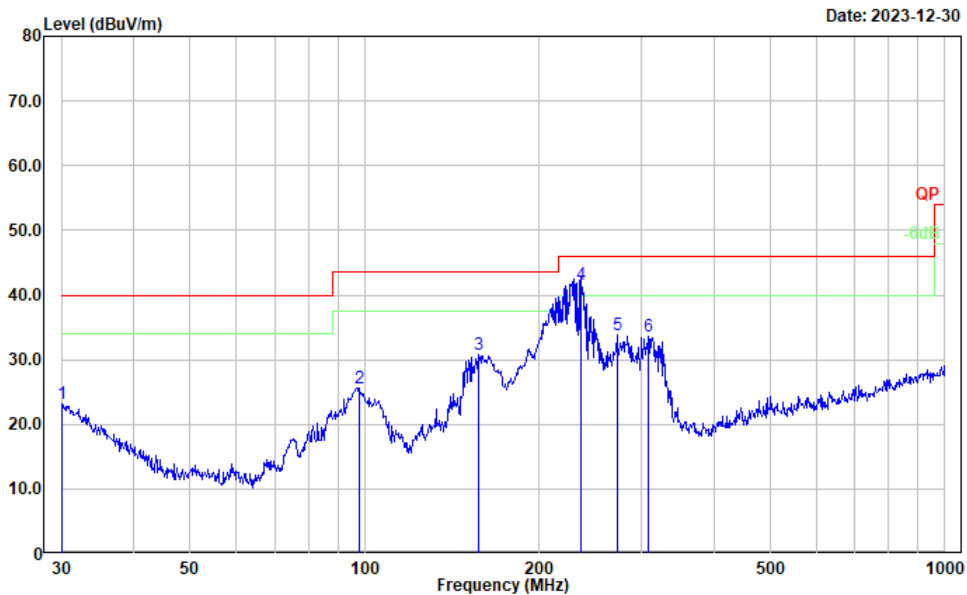


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.317	29.96	-4.06	25.90	40.00	14.10	Peak
2	74.396	40.48	-17.18	23.30	40.00	16.70	Peak
3	97.798	40.28	-15.13	25.15	43.50	18.35	Peak
4	153.200	39.23	-12.17	27.06	43.50	16.44	Peak
5	236.645	42.56	-12.94	29.62	46.00	16.38	Peak
6	279.044	38.76	-10.88	27.88	46.00	18.12	Peak

Tested at 5470-5725

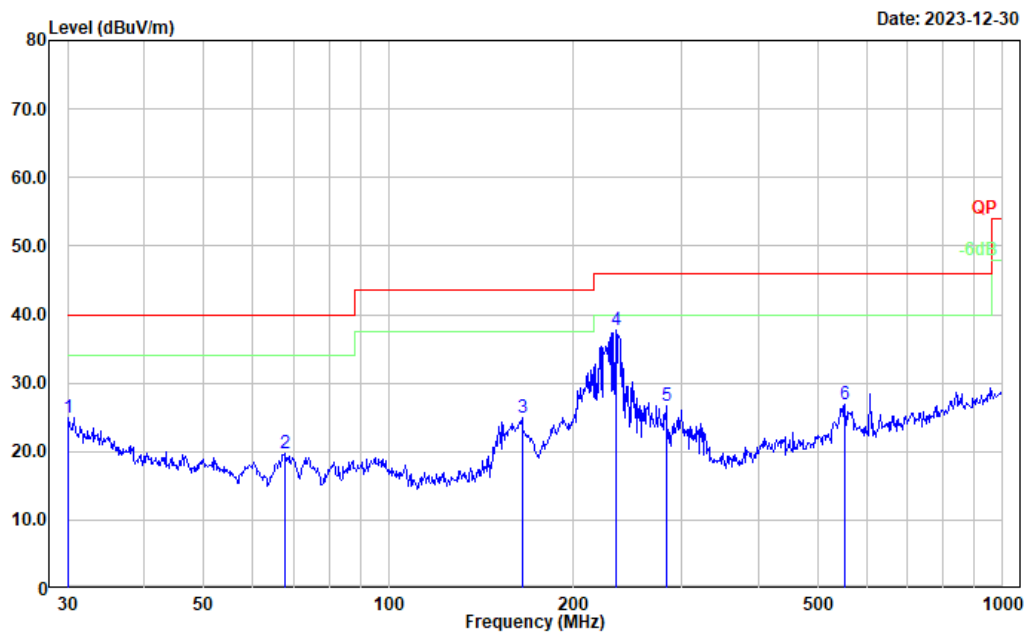
Low Channel

Project No.: CR231272455-RF
 Tester: Jeff Luo
 Polarization: horizontal
 Note: Transmitting(5G WIFI(5470-5725 MHz))



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	30.000	27.01	-3.87	23.14	40.00	16.86	Peak
2	98.142	40.71	-15.05	25.66	43.50	17.84	Peak
3	157.007	42.64	-11.87	30.77	43.50	12.73	Peak
4	235.816	54.61	-12.99	41.62	46.00	4.38	QP
5	272.278	44.79	-10.89	33.90	46.00	12.10	Peak
6	307.831	43.84	-10.24	33.60	46.00	12.40	Peak

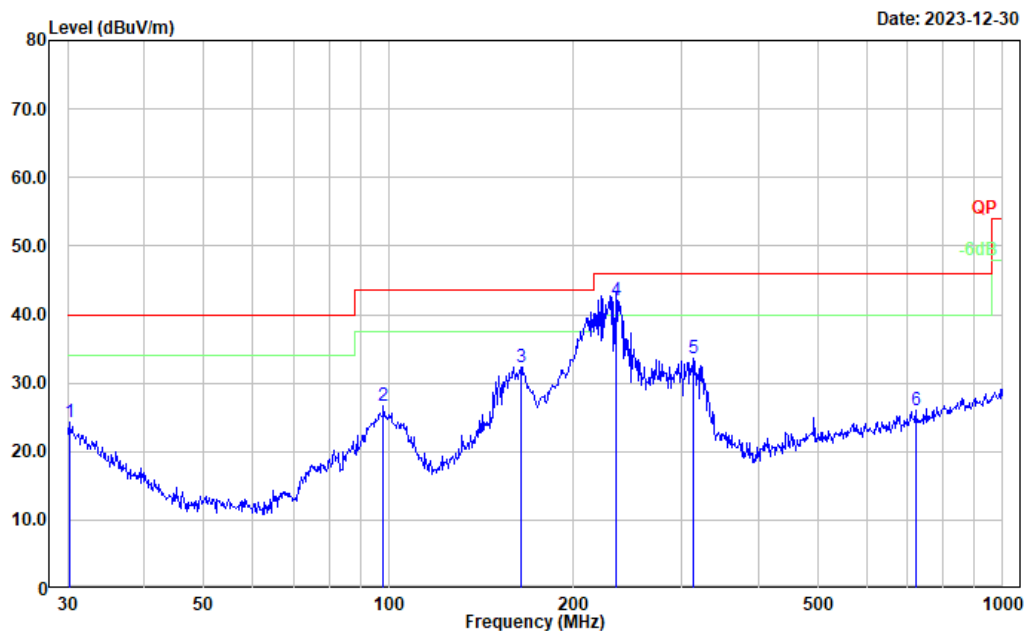
Project No.: CR231272455-RF
 Tester: Jeff Luo
 Polarization: vertical
 Note: Transmitting(5G WIFI(5470-5725 MHz))



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.000	28.89	-3.87	25.02	40.00	14.98	Peak
2	67.913	37.02	-17.21	19.81	40.00	20.19	Peak
3	164.908	37.14	-12.23	24.91	43.50	18.59	Peak
4	234.168	50.71	-13.05	37.66	46.00	8.34	Peak
5	282.985	37.34	-10.74	26.60	46.00	19.40	Peak
6	552.883	32.31	-5.43	26.88	46.00	19.12	Peak

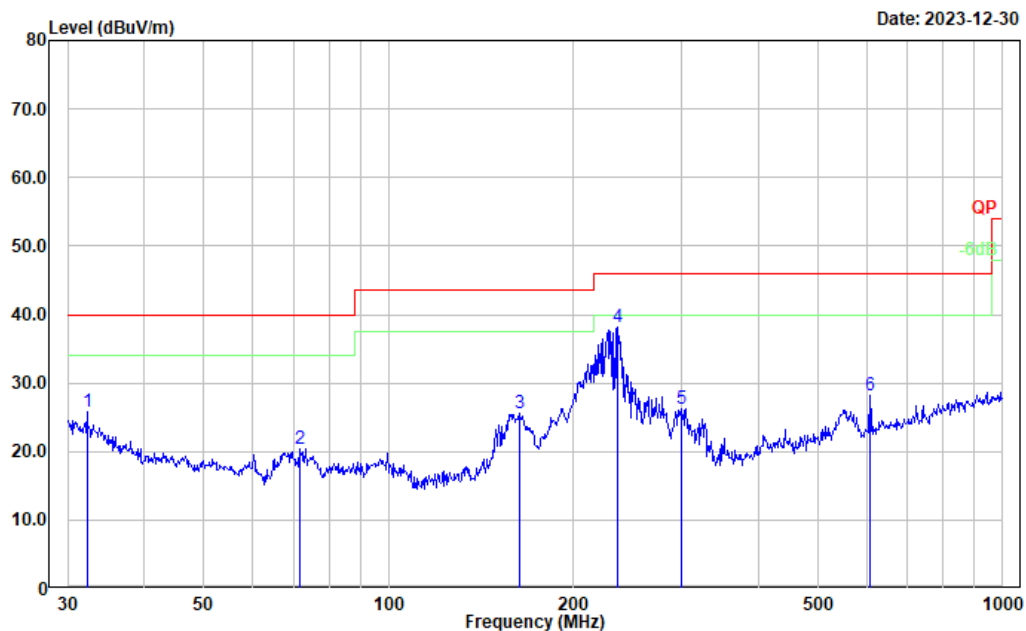
Middle Channel

Project No.: CR231272455-RF
 Tester: Jeff Luo
 Polarization: horizontal
 Note: Transmitting(5G WIFI(5470-5725 MHz))



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.211	28.20	-4.00	24.20	40.00	15.80	Peak
2	98.142	41.64	-15.05	26.59	43.50	16.91	Peak
3	164.330	44.49	-12.18	32.31	43.50	11.19	Peak
4	234.168	55.10	-13.05	42.05	46.00	3.95	QP
5	313.276	43.73	-10.12	33.61	46.00	12.39	Peak
6	721.726	28.68	-2.74	25.94	46.00	20.06	Peak

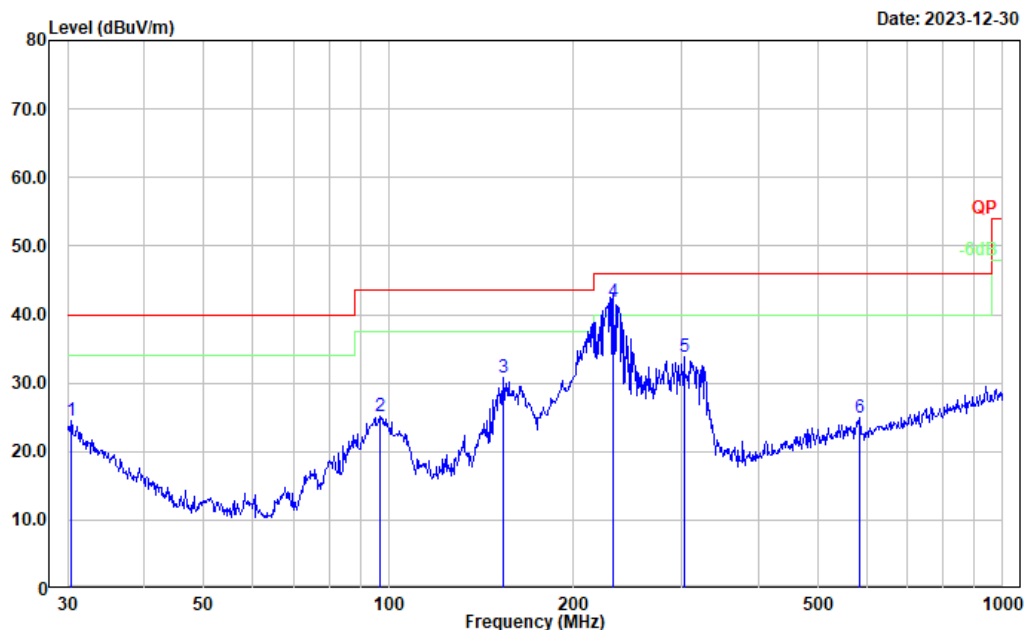
Project No.: CR231272455-RF
 Tester: Jeff Luo
 Polarization: vertical
 Note: Transmitting(5G WIFI(5470-5725 MHz))



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	32.293	31.37	-5.49	25.88	40.00	14.12	Peak
2	71.581	37.60	-17.19	20.41	40.00	19.59	Peak
3	163.182	37.62	-12.14	25.48	43.50	18.02	Peak
4	235.816	51.16	-12.99	38.17	46.00	7.83	Peak
5	299.316	36.76	-10.44	26.32	46.00	19.68	Peak
6	607.787	32.54	-4.43	28.11	46.00	17.89	Peak

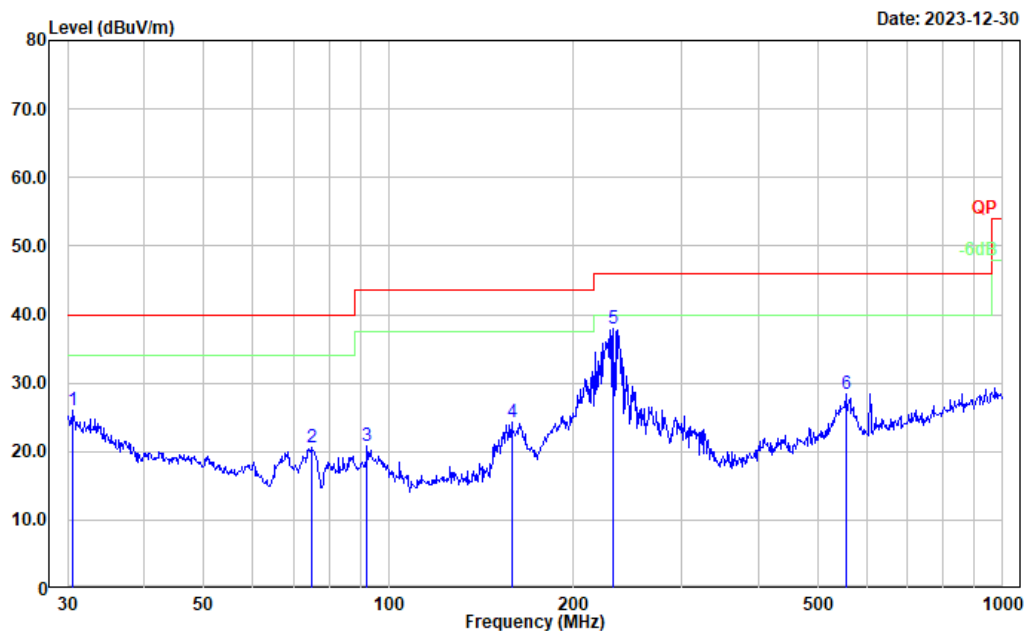
High Channel

Project No.: CR231272455-RF
 Tester: Jeff Luo
 Polarization: horizontal
 Note: Transmitting(5G WIFI(5470-5725 MHz))



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.424	28.55	-4.12	24.43	40.00	15.57	Peak
2	96.775	40.52	-15.38	25.14	43.50	18.36	Peak
3	153.739	42.88	-12.17	30.71	43.50	12.79	Peak
4	232.532	54.98	-13.12	41.86	46.00	4.14	QP
5	302.481	44.18	-10.38	33.80	46.00	12.20	Peak
6	584.790	29.37	-4.50	24.87	46.00	21.13	Peak

Project No.: CR231272455-RF
 Tester: Jeff Luo
 Polarization: vertical
 Note: Transmitting(5G WIFI(5470-5725 MHz))

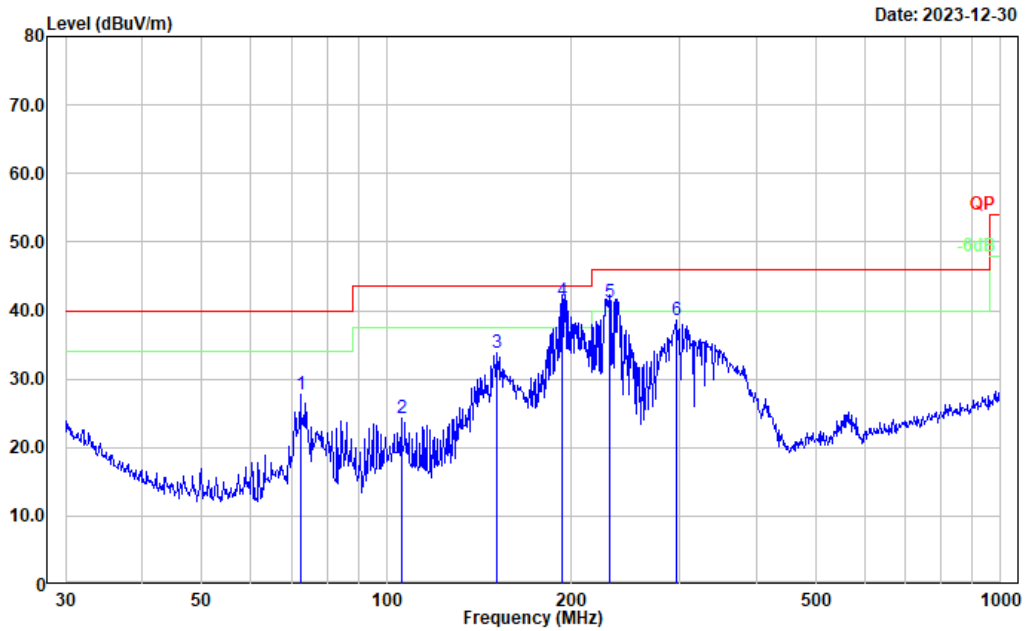


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.531	30.14	-4.18	25.96	40.00	14.04	Peak
2	74.919	37.88	-17.18	20.70	40.00	19.30	Peak
3	92.139	37.39	-16.58	20.81	43.50	22.69	Peak
4	158.668	36.27	-11.92	24.35	43.50	19.15	Peak
5	232.532	51.10	-13.12	37.98	46.00	8.02	Peak
6	554.825	33.74	-5.43	28.31	46.00	17.69	Peak

Tested at 5725-5850

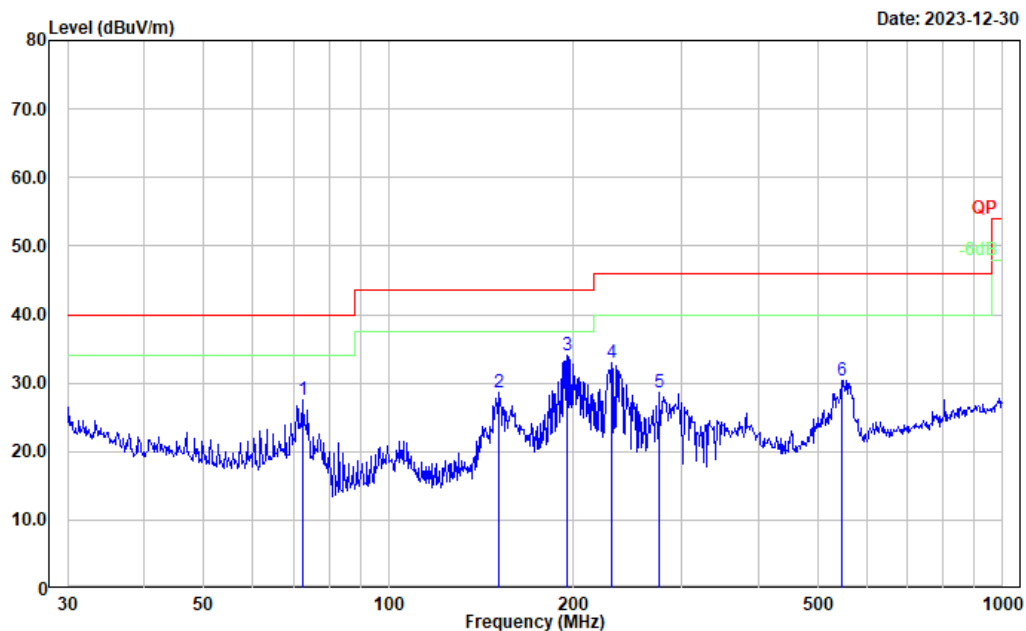
Low Channel

Project No.: CR231272455-RF
 Tester: Jeff Luo
 Polarization: horizontal
 Note: Transmitting(5G WIFI(5725-5850 MHz))



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	72.338	44.79	-17.14	27.65	40.00	12.35	Peak
2	105.642	37.76	-13.54	24.22	43.50	19.28	Peak
3	151.067	46.05	-12.27	33.78	43.50	9.72	Peak
4	193.095	54.76	-13.41	41.35	43.50	2.15	QP
5	230.907	54.57	-13.34	41.23	46.00	4.77	QP
6	297.224	49.78	-11.17	38.61	46.00	7.39	Peak

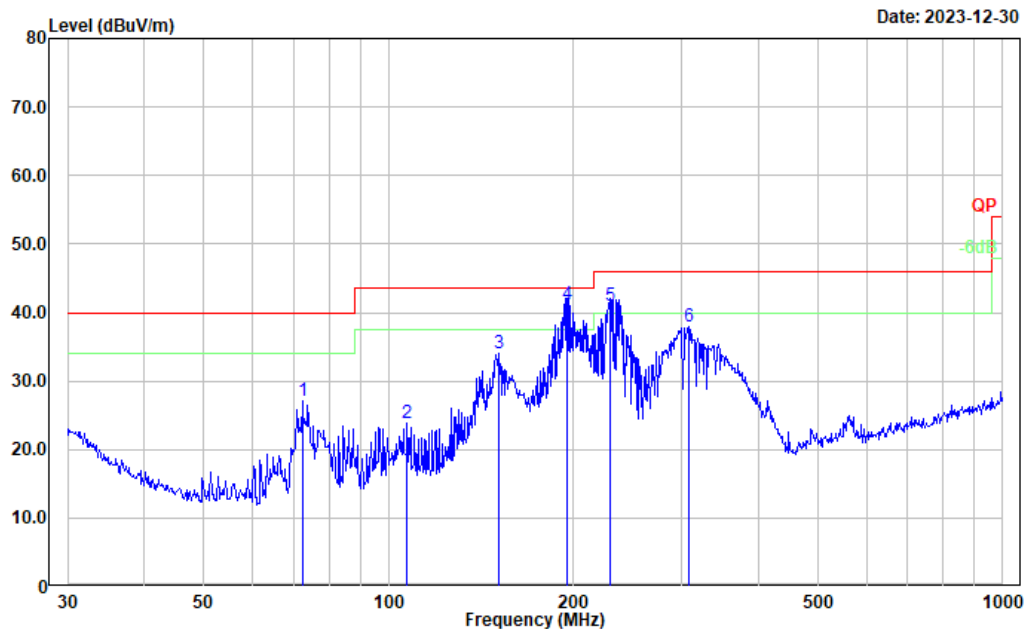
Project No.: CR231272455-RF
 Tester: Jeff Luo
 Polarization: vertical
 Note: Transmitting(5G WIFI(5725-5850 MHz))



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	72.338	44.68	-17.14	27.54	40.00	12.46	Peak
2	151.067	40.81	-12.27	28.54	43.50	14.96	Peak
3	195.137	47.11	-13.17	33.94	43.50	9.56	Peak
4	230.907	46.29	-13.34	32.95	46.00	13.05	Peak
5	276.124	40.77	-12.17	28.60	46.00	17.40	Peak
6	547.098	36.63	-6.21	30.42	46.00	15.58	Peak

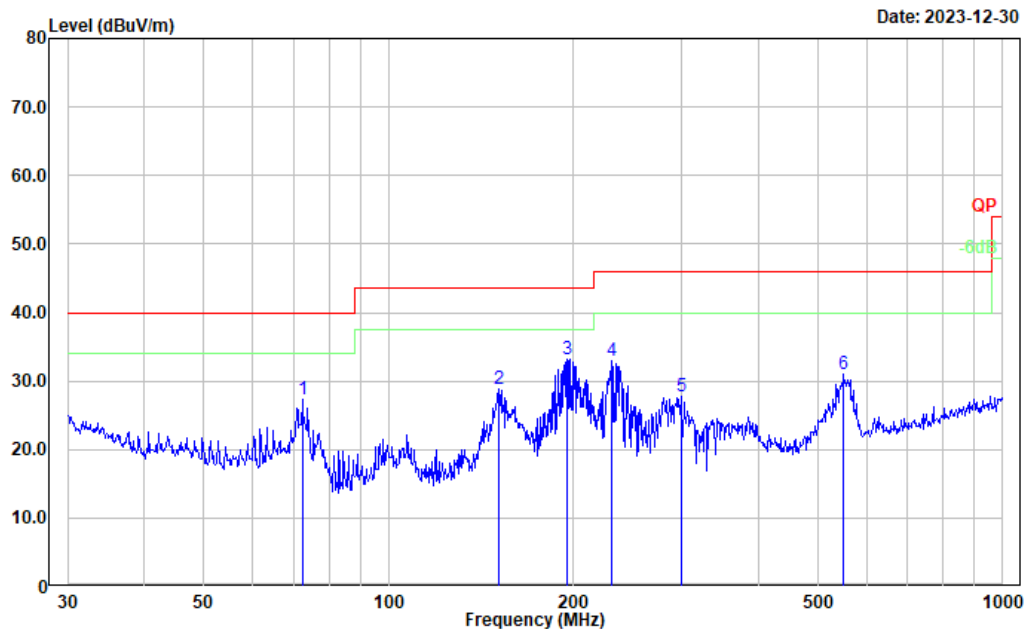
High Channel

Project No.: CR231272455-RF
 Tester: Jeff Luo
 Polarization: horizontal
 Note: Transmitting(5G WIFI(5725-5850 MHz))



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	72.338	44.23	-17.14	27.09	40.00	12.91	Peak
2	107.134	36.98	-13.20	23.78	43.50	19.72	Peak
3	151.067	46.37	-12.27	34.10	43.50	9.40	Peak
4	195.137	54.30	-13.17	41.13	43.50	2.37	QP
5	229.293	54.33	-13.30	41.03	46.00	4.97	QP
6	307.831	48.95	-10.93	38.02	46.00	7.98	Peak

Project No.: CR231272455-RF
 Tester: Jeff Luo
 Polarization: vertical
 Note: Transmitting(5G WIFI(5725-5850 MHz))



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	72.338	44.55	-17.14	27.41	40.00	12.59	Peak
2	151.067	41.10	-12.27	28.83	43.50	14.67	Peak
3	195.137	46.42	-13.17	33.25	43.50	10.25	Peak
4	230.907	46.20	-13.34	32.86	46.00	13.14	Peak
5	299.316	38.86	-11.08	27.78	46.00	18.22	Peak
6	550.948	37.08	-6.17	30.91	46.00	15.09	Peak

2) 1GHz-40GHz:**802.11aMode:**

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
	Reading (dB μ V)	Detector					
Low Channel:				5180	MHz		
5150.000	47.46	PK	H	11.67	59.13	74.00	14.87
5150.000	31.32	AV	H	11.67	42.99	54.00	11.01
5150.000	48.34	PK	V	11.67	60.01	74.00	13.99
5150.000	33.85	AV	V	11.67	45.52	54.00	8.48
10360.000	34.22	PK	H	20.47	54.69	68.20	13.51
10360.000	36.89	PK	V	20.47	57.36	68.20	10.84
15540.000	36.39	PK	H	24.62	61.01	74.00	12.99
15540.000	23.36	AV	H	24.62	47.98	54.00	6.02
15540.000	36.41	PK	V	24.62	61.03	74.00	12.97
15540.000	23.33	AV	V	24.62	47.95	54.00	6.05
Middle Channel:				5200	MHz		
10400.000	34.07	PK	H	20.54	54.61	68.20	13.59
10400.000	35.58	PK	V	20.54	56.12	68.20	12.08
15600.000	35.85	PK	H	24.71	60.56	74.00	13.44
15600.000	23.32	AV	H	24.71	48.03	54.00	5.97
15600.000	36.40	PK	V	24.71	61.11	74.00	12.89
15600.000	24.10	AV	V	24.71	48.81	54.00	5.19
High Channel:				5240	MHz		
5350.000	46.15	PK	H	11.94	58.09	74.00	15.91
5350.000	30.48	AV	H	11.94	42.42	54.00	11.58
5350.000	47.67	PK	V	11.94	59.61	74.00	14.39
5350.000	32.58	AV	V	11.94	44.52	54.00	9.48
10480.000	35.40	PK	H	20.42	55.82	68.20	12.38
10480.000	36.70	PK	V	20.42	57.12	68.20	11.08
15720.000	36.41	PK	H	24.82	61.23	74.00	12.77
15720.000	23.14	AV	H	24.82	47.96	54.00	6.04
15720.000	36.02	PK	V	24.82	60.84	74.00	13.16
15720.000	23.34	AV	V	24.82	48.16	54.00	5.84

802.11n ht20 Mode:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
	Reading (dB μ V)	Detector					
Low Channel:				5180	MHz		
5150.000	46.99	PK	H	11.67	58.66	74.00	15.34
5150.000	31.36	AV	H	11.67	43.03	54.00	10.97
5150.000	47.47	PK	V	11.67	59.14	74.00	14.86
5150.000	34.30	AV	V	11.67	45.97	54.00	8.03
10360.000	34.74	PK	H	20.47	55.21	68.20	12.99
10360.000	36.59	PK	V	20.47	57.06	68.20	11.14
15540.000	36.29	PK	H	24.62	60.91	74.00	13.09
15540.000	23.49	AV	H	24.62	48.11	54.00	5.89
15540.000	35.91	PK	V	24.62	60.53	74.00	13.47
15540.000	24.01	AV	V	24.62	48.63	54.00	5.37
Middle Channel:				5200	MHz		
10400.000	33.81	PK	H	20.54	54.35	68.20	13.85
10400.000	36.18	PK	V	20.54	56.72	68.20	11.48
15600.000	36.33	PK	H	24.71	61.04	74.00	12.96
15600.000	23.07	AV	H	24.71	47.78	54.00	6.22
15600.000	35.52	PK	V	24.71	60.23	74.00	13.77
15600.000	23.15	AV	V	24.71	47.86	54.00	6.14
High Channel:				5240	MHz		
5350.000	45.93	PK	H	11.94	57.87	74.00	16.13
5350.000	31.05	AV	H	11.94	42.99	54.00	11.01
5350.000	46.17	PK	V	11.94	58.11	74.00	15.89
5350.000	31.18	AV	V	11.94	43.12	54.00	10.88
10480.000	34.85	PK	H	20.42	55.27	68.20	12.93
10480.000	36.02	PK	V	20.42	56.44	68.20	11.76
15720.000	35.33	PK	H	24.82	60.15	74.00	13.85
15720.000	23.44	AV	H	24.82	48.26	54.00	5.74
15720.000	36.19	PK	V	24.82	61.01	74.00	12.99
15720.000	23.17	AV	V	24.82	47.99	54.00	6.01

802.11n ht40 Mode:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
	Reading (dB μ V)	Detector					
Low Channel:				5190	MHz		
5150.000	45.97	PK	H	11.67	57.64	74.00	16.36
5150.000	30.84	AV	H	11.67	42.51	54.00	11.49
5150.000	46.54	PK	V	11.67	58.21	74.00	15.79
5150.000	33.90	AV	V	11.67	45.57	54.00	8.43
10380.000	33.75	PK	H	20.51	54.26	68.20	13.94
10380.000	35.65	PK	V	20.51	56.16	68.20	12.04
15570.000	35.74	PK	H	24.67	60.41	74.00	13.59
15570.000	23.30	AV	H	24.67	47.97	54.00	6.03
15570.000	35.32	PK	V	24.67	59.99	74.00	14.01
15570.000	23.60	AV	V	24.67	48.27	54.00	5.73
High Channel:				5230	MHz		
5350.000	46.07	PK	H	11.94	58.01	74.00	15.99
5350.000	32.02	AV	H	11.94	43.96	54.00	10.04
5350.000	45.54	PK	V	11.94	57.48	74.00	16.52
5350.000	31.02	AV	V	11.94	42.96	54.00	11.04
10460.000	34.59	PK	H	20.45	55.04	68.20	13.16
10460.000	35.60	PK	V	20.45	56.05	68.20	12.15
15690.000	34.88	PK	H	24.77	59.65	74.00	14.35
15690.000	23.18	AV	H	24.77	47.95	54.00	6.05
15690.000	35.99	PK	V	24.77	60.76	74.00	13.24
15690.000	23.06	AV	V	24.77	47.83	54.00	6.17

802.11ac80 Mode:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
	Reading (dB μ V)	Detector					
Middle Channel:				5210	MHz		
5150.000	44.85	PK	H	11.67	56.52	74.00	17.48
5150.000	30.30	AV	H	11.67	41.97	54.00	12.03
5150.000	46.08	PK	V	11.67	57.75	74.00	16.25
5150.000	33.77	AV	V	11.67	45.44	54.00	8.56
5350.000	45.72	PK	H	11.94	57.66	74.00	16.34
5350.000	32.07	AV	H	11.94	44.01	54.00	9.99
5350.000	46.20	PK	V	11.94	58.14	74.00	15.86
5350.000	32.05	AV	V	11.94	43.99	54.00	10.01
10420.000	33.50	PK	H	20.51	54.01	68.20	14.19
10420.000	35.81	PK	V	20.51	56.32	68.20	11.88
15630.000	34.34	PK	H	24.73	59.07	74.00	14.93
15630.000	22.98	AV	H	24.73	47.71	54.00	6.29
15630.000	35.80	PK	V	24.73	60.53	74.00	13.47
15630.000	22.99	AV	V	24.73	47.72	54.00	6.28

5250-5350MHz:**802.11a Mode:**

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
	Reading (dB μ V)	Detector					
Low Channel:				5260	MHz		
5150.000	44.08	PK	H	11.67	55.75	74.00	18.25
5150.000	31.17	AV	H	11.67	42.84	54.00	11.16
5150.000	45.32	PK	V	11.67	56.99	74.00	17.01
5150.000	32.47	AV	V	11.67	44.14	54.00	9.86
10520.000	34.41	PK	H	20.53	54.94	68.20	13.26
10520.000	34.72	PK	V	20.53	55.25	68.20	12.95
15780.000	34.02	PK	H	24.92	58.94	74.00	15.06
15780.000	22.50	AV	H	24.92	47.42	54.00	6.58
15780.000	34.76	PK	V	24.92	59.68	74.00	14.32
15780.000	22.94	AV	V	24.92	47.86	54.00	6.14
Middle Channel:				5280	MHz		
10560.000	34.20	PK	H	20.81	55.01	68.20	13.19
10560.000	34.80	PK	V	20.81	55.61	68.20	12.59
15840.000	34.09	PK	H	25.12	59.21	74.00	14.79
15840.000	22.60	AV	H	25.12	47.72	54.00	6.28
15840.000	34.85	PK	V	25.12	59.97	74.00	14.03
15840.000	22.47	AV	V	25.12	47.59	54.00	6.41
High Channel:				5320	MHz		
5350.000	44.38	PK	H	11.94	56.32	74.00	17.68
5350.000	31.09	AV	H	11.94	43.03	54.00	10.97
5350.000	45.07	PK	V	11.94	57.01	74.00	16.99
5350.000	5.90	AV	V	38.72	44.62	54.00	9.38
10640.000	39.54	PK	H	21.13	60.67	74.00	13.33
10640.000	26.13	AV	H	21.13	47.26	54.00	6.74
10640.000	38.86	PK	V	21.13	59.99	74.00	14.01
10640.000	23.90	AV	V	21.13	45.03	54.00	8.97
15960.000	34.63	PK	H	25.24	59.87	74.00	14.13
15960.000	22.51	AV	H	25.24	47.75	54.00	6.25
15960.000	34.73	PK	V	25.24	59.97	74.00	14.03
15960.000	22.32	AV	V	25.24	47.56	54.00	6.44

802.11n ht20 Mode:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
	Reading (dB μ V)	Detector					
Low Channel: 5260 MHz							
5150.000	44.09	PK	H	11.67	55.76	74.00	18.24
5150.000	31.28	AV	H	11.67	42.95	54.00	11.05
5150.000	45.75	PK	V	11.67	57.42	74.00	16.58
5150.000	32.65	AV	V	11.67	44.32	54.00	9.68
10520.000	34.90	PK	H	20.53	55.43	68.20	12.77
10520.000	35.19	PK	V	20.53	55.72	68.20	12.48
15780.000	34.32	PK	H	24.92	59.24	74.00	14.76
15780.000	22.89	AV	H	24.92	47.81	54.00	6.19
15780.000	35.25	PK	V	24.92	60.17	74.00	13.83
15780.000	23.04	AV	V	24.92	47.96	54.00	6.04
Middle Channel: 5280 MHz							
10560.000	34.30	PK	H	20.81	55.11	68.20	13.09
10560.000	35.50	PK	V	20.81	56.31	68.20	11.89
15840.000	35.14	PK	H	25.12	60.26	74.00	13.74
15840.000	22.47	AV	H	25.12	47.59	54.00	6.41
15840.000	34.94	PK	V	25.12	60.06	74.00	13.94
15840.000	22.89	AV	V	25.12	48.01	54.00	5.99
High Channel: 5320 MHz							
5350.000	45.77	PK	H	11.94	57.71	74.00	16.29
5350.000	30.98	AV	H	11.94	42.92	54.00	11.08
5350.000	45.69	PK	V	11.94	57.63	74.00	16.37
5350.000	33.07	AV	V	11.94	45.01	54.00	8.99
10640.000	40.08	PK	H	21.13	61.21	74.00	12.79
10640.000	26.60	AV	H	21.13	47.73	54.00	6.27
10640.000	39.39	PK	V	21.13	60.52	74.00	13.48
10640.000	24.44	AV	V	21.13	45.57	54.00	8.43
15960.000	35.10	PK	H	25.24	60.34	74.00	13.66
15960.000	22.70	AV	H	25.24	47.94	54.00	6.06
15960.000	34.53	PK	V	25.24	59.77	74.00	14.23
15960.000	22.79	AV	V	25.24	48.03	54.00	5.97

802.11n ht40 Mode:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
	Reading (dB μ V)	Detector					
Low Channel:				5270	MHz		
5150.000	44.77	PK	H	11.67	56.44	74.00	17.56
5150.000	30.98	AV	H	11.67	42.65	54.00	11.35
5150.000	46.08	PK	V	11.67	57.75	74.00	16.25
5150.000	33.39	AV	V	11.67	45.06	54.00	8.94
10540.000	35.34	PK	H	20.68	56.02	68.20	12.18
10540.000	35.77	PK	V	20.68	56.45	68.20	11.75
15810.000	35.46	PK	H	25.00	60.46	74.00	13.54
15810.000	24.74	AV	H	25.00	49.74	54.00	4.26
15810.000	34.99	PK	V	25.00	59.99	74.00	14.01
15810.000	23.04	AV	V	25.00	48.04	54.00	5.96
High Channel:				5310	MHz		
5350.000	45.01	PK	H	11.94	56.95	74.00	17.05
5350.000	30.05	AV	H	11.94	41.99	54.00	12.01
5350.000	46.13	PK	V	11.94	58.07	74.00	15.93
5350.000	32.90	AV	V	11.94	44.84	54.00	9.16
10620.000	40.80	PK	H	21.11	61.91	74.00	12.09
10620.000	26.17	AV	H	21.11	47.28	54.00	6.72
10620.000	39.92	PK	V	21.11	61.03	74.00	12.97
10620.000	24.34	AV	V	21.11	45.45	54.00	8.55
15930.000	35.87	PK	H	25.30	61.17	74.00	12.83
15930.000	22.91	AV	H	25.30	48.21	54.00	5.79
15930.000	35.16	PK	V	25.30	60.46	74.00	13.54
15930.000	22.67	AV	V	25.30	47.97	54.00	6.03

802.11ac80 Mode:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
	Reading (dB μ V)	Detector					
Middle Channel:				5290	MHz		
5150.000	44.87	PK	H	11.67	56.54	74.00	17.46
5150.000	30.26	AV	H	11.67	41.93	54.00	12.07
5150.000	45.80	PK	V	11.67	57.47	74.00	16.53
5150.000	33.22	AV	V	11.67	44.89	54.00	9.11
5350.000	45.23	PK	H	11.94	57.17	74.00	16.83
5350.000	30.32	AV	H	11.94	42.26	54.00	11.74
5350.000	47.18	PK	V	11.94	59.12	74.00	14.88
5350.000	33.47	AV	V	11.94	45.41	54.00	8.59
10580.000	35.38	PK	H	20.96	56.34	68.20	11.86
10580.000	35.23	PK	V	20.96	56.19	68.20	12.01
15870.000	34.62	PK	H	25.23	59.85	74.00	14.15
15870.000	24.63	AV	H	25.23	49.86	54.00	4.14
15870.000	35.08	PK	V	25.23	60.31	74.00	13.69
15870.000	23.72	AV	V	25.23	48.95	54.00	5.05

5470-5725MHz**802.11a Mode:**

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
	Reading (dB μ V)	Detector					
Low Channel:				5500	MHz		
5470.000	44.64	PK	H	11.84	56.48	68.20	11.72
5470.000	44.14	PK	V	11.84	55.98	68.20	12.22
11000.000	34.57	PK	H	21.53	56.10	74.00	17.90
11000.000	22.28	AV	H	21.53	43.81	54.00	10.19
11000.000	34.25	PK	V	21.53	55.78	74.00	18.22
11000.000	22.33	AV	V	21.53	43.86	54.00	10.14
16500.000	34.86	PK	H	25.93	60.79	68.20	7.41
16500.000	34.99	PK	V	25.93	60.92	68.20	7.28
Middle Channel:				5580	MHz		
11160.000	35.56	PK	H	21.38	56.94	74.00	17.06
11160.000	22.44	AV	H	21.38	43.82	54.00	10.18
11160.000	34.68	PK	V	21.38	56.06	74.00	17.94
11160.000	22.09	AV	V	21.38	43.47	54.00	10.53
16740.000	35.47	PK	H	26.59	62.06	68.20	6.14
16740.000	36.03	PK	V	26.59	62.62	68.20	5.58
High Channel:				5700	MHz		
5725.000	44.08	PK	H	12.57	56.65	68.20	11.55
5725.000	44.17	PK	V	12.57	56.74	68.20	11.46
11400.000	35.53	PK	H	21.91	57.44	74.00	16.56
11400.000	23.18	AV	H	21.91	45.09	54.00	8.91
11400.000	36.43	PK	V	21.91	58.34	74.00	15.66
11400.000	23.35	AV	V	21.91	45.26	54.00	8.74
17100.000	35.39	PK	H	28.51	63.90	68.20	4.30
17100.000	35.38	PK	V	28.51	63.89	68.20	4.31

802.11n ht20 Mode:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
	Reading (dB μ V)	Detector					
Low Channel:				5500	MHz		
5470.000	44.41	PK	H	11.84	56.25	68.20	11.95
5470.000	45.59	PK	V	11.84	57.43	68.20	10.77
11000.000	34.08	PK	H	21.53	55.61	74.00	18.39
11000.000	22.68	AV	H	21.53	44.21	54.00	9.79
11000.000	34.50	PK	V	21.53	56.03	74.00	17.97
11000.000	22.46	AV	V	21.53	43.99	54.00	10.01
16500.000	35.59	PK	H	25.93	61.52	68.20	6.68
16500.000	34.77	PK	V	25.93	60.70	68.20	7.50
Middle Channel:				5580	MHz		
11160.000	37.10	PK	H	21.38	58.48	74.00	15.52
11160.000	24.48	AV	H	21.38	45.86	54.00	8.14
11160.000	34.57	PK	V	21.38	55.95	74.00	18.05
11160.000	23.15	AV	V	21.38	44.53	54.00	9.47
16740.000	36.11	PK	H	26.59	62.70	68.20	5.50
16740.000	35.81	PK	V	26.59	62.40	68.82	6.42
High Channel:				5700	MHz		
5725.000	44.92	PK	H	12.57	57.49	68.20	10.71
5725.000	44.56	PK	V	12.57	57.13	68.20	11.07
11400.000	35.24	PK	H	21.91	57.15	74.00	16.85
11400.000	23.35	AV	H	21.91	45.26	54.00	8.74
11400.000	35.71	PK	V	21.91	57.62	74.00	16.38
11400.000	23.37	AV	V	21.91	45.28	54.00	8.72
17100.000	34.76	PK	H	28.51	63.27	68.20	4.93
17100.000	35.64	PK	V	28.51	64.15	68.20	4.05

802.11n ht40 Mode:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
	Reading (dB μ V)	Detector					
Low Channel:				5510	MHz		
5470.000	45.03	PK	H	11.84	56.87	68.20	11.33
5470.000	44.61	PK	V	11.84	56.45	68.20	11.75
11020.000	35.30	PK	H	21.52	56.82	74.00	17.18
11020.000	22.72	AV	H	21.52	44.24	54.00	9.76
11020.000	34.52	PK	V	21.52	56.04	74.00	17.96
11020.000	22.31	AV	V	21.52	43.83	54.00	10.17
16530.000	35.52	PK	H	26.18	61.70	68.20	6.50
16530.000	34.84	PK	V	26.18	61.02	68.20	7.18
Middle Channel:				5550	MHz		
11100.000	35.05	PK	H	21.47	56.52	74.00	17.48
11100.000	22.42	AV	H	21.47	43.89	54.00	10.11
11100.000	36.71	PK	V	21.47	58.18	74.00	15.82
11100.000	25.45	AV	V	21.47	46.92	54.00	7.08
16650.000	35.70	PK	H	26.67	62.37	68.20	5.83
16650.000	34.07	PK	V	26.67	60.74	68.20	7.46
High Channel:				5670	MHz		
5725.000	45.36	PK	H	12.57	57.93	68.20	10.27
5725.000	44.09	PK	V	12.57	56.66	68.20	11.54
11340.000	36.05	PK	H	21.86	57.91	74.00	16.09
11340.000	22.08	AV	H	21.86	43.94	54.00	10.06
11340.000	36.66	PK	V	21.86	58.52	74.00	15.48
11340.000	23.00	AV	V	21.86	44.86	54.00	9.14
17010.000	34.67	PK	H	28.12	62.79	68.20	5.41
17010.000	34.43	PK	V	28.12	62.55	68.20	5.65

802.11ac80 Mode:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
	Reading (dB μ V)	Detector					
Low Channel:				5530	MHz		
5470.000	44.53	PK	H	11.84	56.37	68.20	11.83
5470.000	44.95	PK	V	11.84	56.79	68.20	11.41
11060.000	35.18	PK	H	21.49	56.67	74.00	17.33
11060.000	22.05	AV	H	21.49	43.54	54.00	10.46
11060.000	34.46	PK	V	21.49	55.95	74.00	18.05
11060.000	22.26	AV	V	21.49	43.75	54.00	10.25
16590.000	34.33	PK	H	26.68	61.01	68.20	7.19
16590.000	34.46	PK	V	26.68	61.14	68.20	7.06
High Channel:				5610	MHz		
5725.000	44.08	PK	H	12.57	56.65	68.20	11.55
5725.000	44.27	PK	V	12.57	56.84	68.20	11.36
11220.000	35.66	PK	H	21.43	57.09	74.00	16.91
11220.000	23.14	AV	H	21.43	44.57	54.00	9.43
11220.000	35.77	PK	V	21.43	57.20	74.00	16.80
11220.000	23.33	AV	V	21.43	44.76	54.00	9.24
16830.000	36.45	PK	H	26.94	63.39	68.20	4.81
16830.000	36.10	PK	V	26.94	63.04	68.20	5.16

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

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
	Reading (dB μ V)	Detector					
Low Channel:				5745	MHz		
11490.000	37.17	PK	H	21.49	58.66	74.00	15.34
11490.000	23.92	AV	H	21.49	45.41	54.00	8.59
11490.000	38.16	PK	V	21.49	59.65	74.00	14.35
11490.000	24.39	AV	V	21.49	45.88	54.00	8.12
17235.000	34.35	PK	H	28.71	63.06	68.20	5.14
17235.000	34.38	PK	V	28.71	63.09	68.20	5.11
Middle Channel:				5785	MHz		
11570.000	37.25	PK	H	21.71	58.96	74.00	15.04
11570.000	24.10	AV	H	21.71	45.81	54.00	8.19
11570.000	37.66	PK	V	21.71	59.37	74.00	14.63
11570.000	23.88	AV	V	21.71	45.59	54.00	8.41
17355.000	34.70	PK	H	29.35	64.05	68.20	4.15
17355.000	24.85	PK	V	29.35	64.20	68.20	4.00
High Channel:				5825	MHz		
11650.000	36.73	PK	H	22.04	58.77	74.00	15.23
11650.000	23.99	AV	H	22.04	46.03	54.00	7.97
11650.000	37.97	PK	V	22.04	60.01	74.00	13.99
11650.000	23.30	AV	V	22.04	45.34	54.00	8.66
17475.000	34.18	PK	H	29.89	64.07	68.20	4.13
17475.000	34.24	PK	V	29.89	64.13	68.20	4.07

802.11n ht20 Mode:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
	Reading (dB μ V)	Detector					
Low Channel:				5745	MHz		
11490.000	37.54	PK	H	21.49	59.03	74.00	14.97
11490.000	23.87	AV	H	21.49	45.36	54.00	8.64
11490.000	37.50	PK	V	21.49	58.99	74.00	15.01
11490.000	24.72	AV	V	21.49	46.21	54.00	7.79
17235.000	34.42	PK	H	28.71	63.13	68.20	5.07
17235.000	34.32	PK	V	28.71	63.03	68.20	5.17
Middle Channel:				5785	MHz		
11570.000	37.40	PK	H	21.71	59.11	74.00	14.89
11570.000	24.91	AV	H	21.71	46.62	54.00	7.38
11570.000	37.26	PK	V	21.71	58.97	74.00	15.03
11570.000	24.16	AV	V	21.71	45.87	54.00	8.13
17355.000	34.80	PK	H	29.35	64.15	68.20	4.05
17355.000	34.75	PK	V	29.35	64.10	68.20	4.10
High Channel:				5825	MHz		
11650.000	36.60	PK	H	22.04	58.64	74.00	15.36
11650.000	24.70	AV	H	22.04	46.74	54.00	7.26
11650.000	37.87	PK	V	22.04	59.91	74.00	14.09
11650.000	23.85	AV	V	22.04	45.89	54.00	8.11
17475.000	34.10	PK	H	29.89	63.99	68.20	4.21
17475.000	34.23	PK	V	29.89	64.12	68.20	4.08

802.11n ht40 Mode:

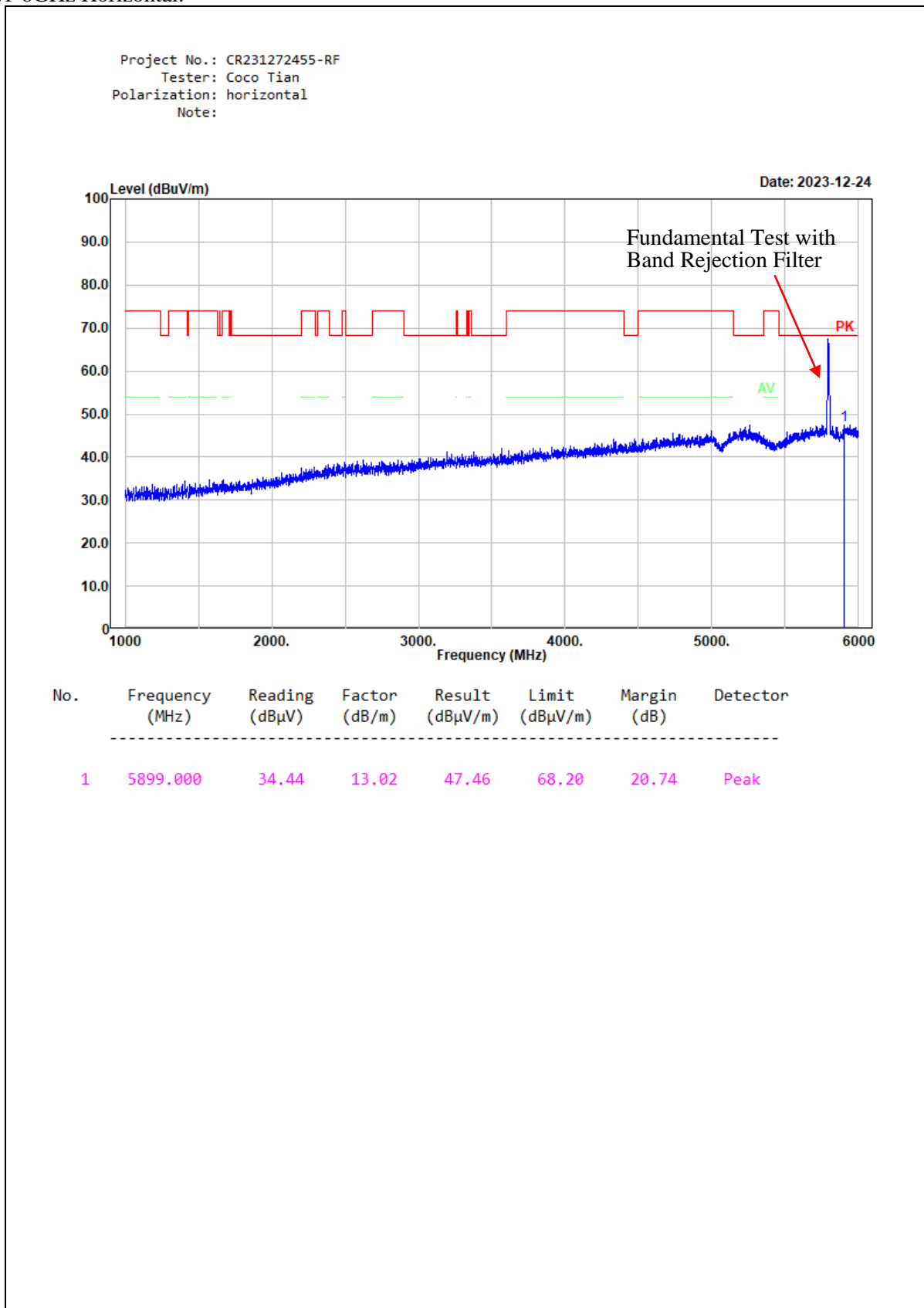
Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
	Reading (dB μ V)	Detector					
Low Channel:				5755	MHz		
11510.000	38.21	PK	H	21.48	59.69	74.00	14.31
11510.000	23.88	AV	H	21.48	45.36	54.00	8.64
11510.000	36.69	PK	V	21.48	58.17	74.00	15.83
11510.000	23.58	AV	V	21.48	45.06	54.00	8.94
17265.000	34.08	PK	H	28.79	62.87	68.20	5.33
17265.000	34.44	PK	V	28.79	63.23	68.20	4.97
High Channel:				5795	MHz		
11590.000	37.65	PK	H	21.79	59.44	74.00	14.56
11590.000	24.97	AV	H	21.79	46.76	54.00	7.24
11590.000	38.32	PK	V	21.79	60.11	74.00	13.89
11590.000	24.12	AV	V	21.79	45.91	54.00	8.09
17385.000	34.46	PK	H	29.59	64.05	68.20	4.15
17385.000	34.62	PK	V	29.59	64.21	68.20	3.99

802.11ac80 Mode:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
	Reading (dB μ V)	Detector					
Middle Channel:				5775	MHz		
11550.000	38.50	PK	H	21.63	60.13	74.00	13.87
11550.000	24.12	AV	H	21.63	45.75	54.00	8.25
11550.000	38.08	PK	V	21.63	59.71	74.00	14.29
11550.000	23.91	AV	V	21.63	45.54	54.00	8.46
17325.000	34.07	PK	H	29.11	63.18	68.20	5.02
17325.000	34.21	PK	V	29.11	63.32	68.20	4.88

Worst Test plots (802.11n ht40 band4 High Channel)

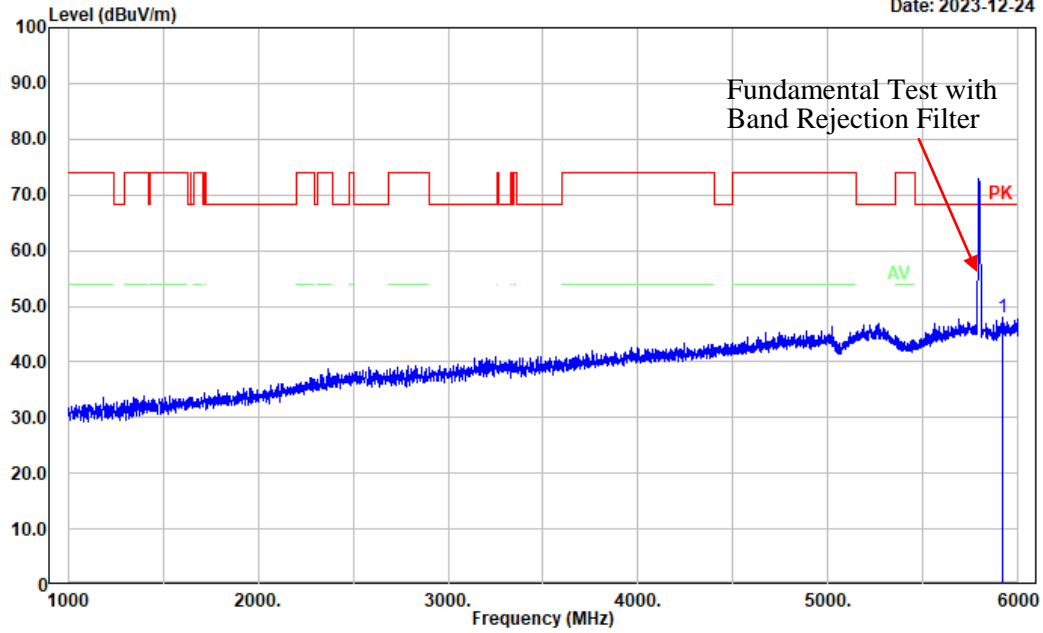
1)1-6GHz Horizontal:



Vertical:

Project No.: CR231272455-RF
 Tester: Coco Tian
 Polarization: vertical
 Note:

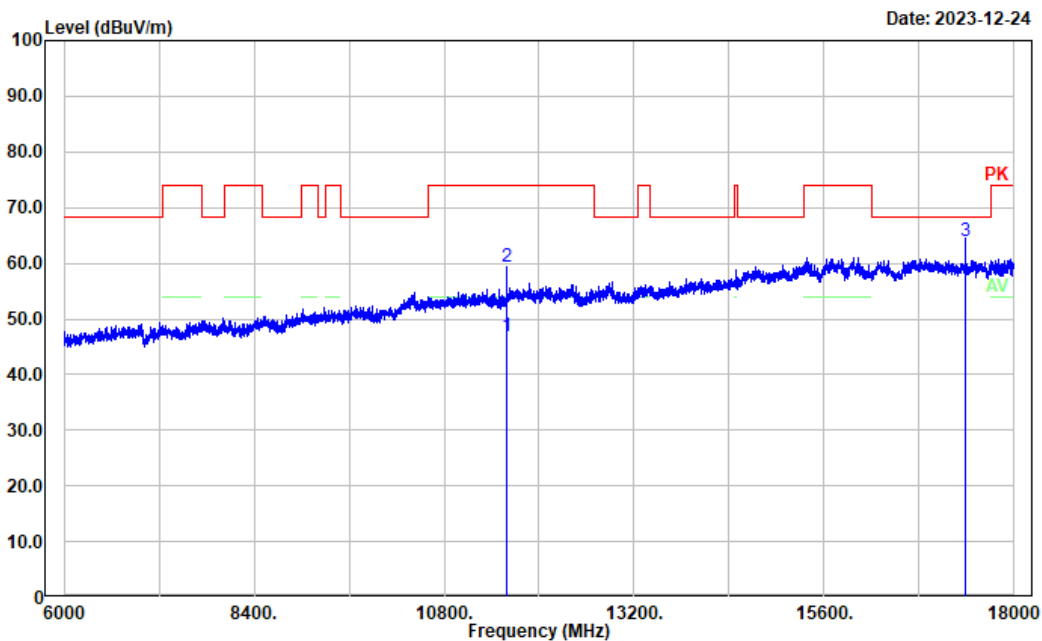
Date: 2023-12-24



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	5920.000	34.88	13.02	47.90	68.20	20.30	Peak

2)6-18GHz Horizontal:

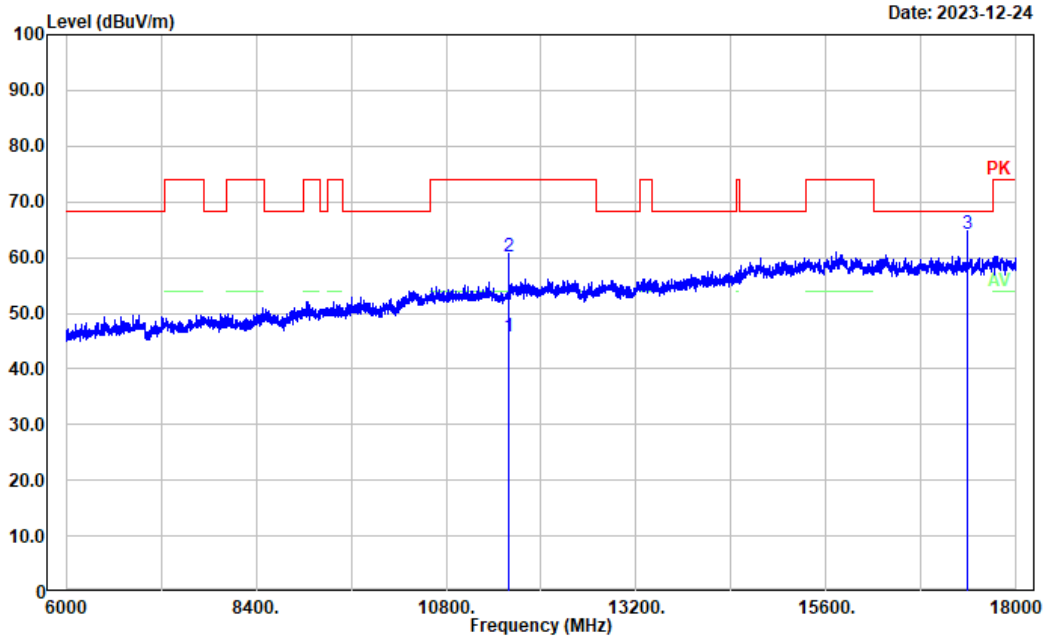
Project No.: CR231272455-RF
 Tester: Coco Tian
 Polarization: horizontal
 Note:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	11590.000	24.97	21.79	46.76	54.00	7.24	Average
2	11590.000	37.65	21.79	59.44	74.00	14.56	Peak
3	17385.000	34.46	29.59	64.05	68.20	4.15	Peak

Vertical:

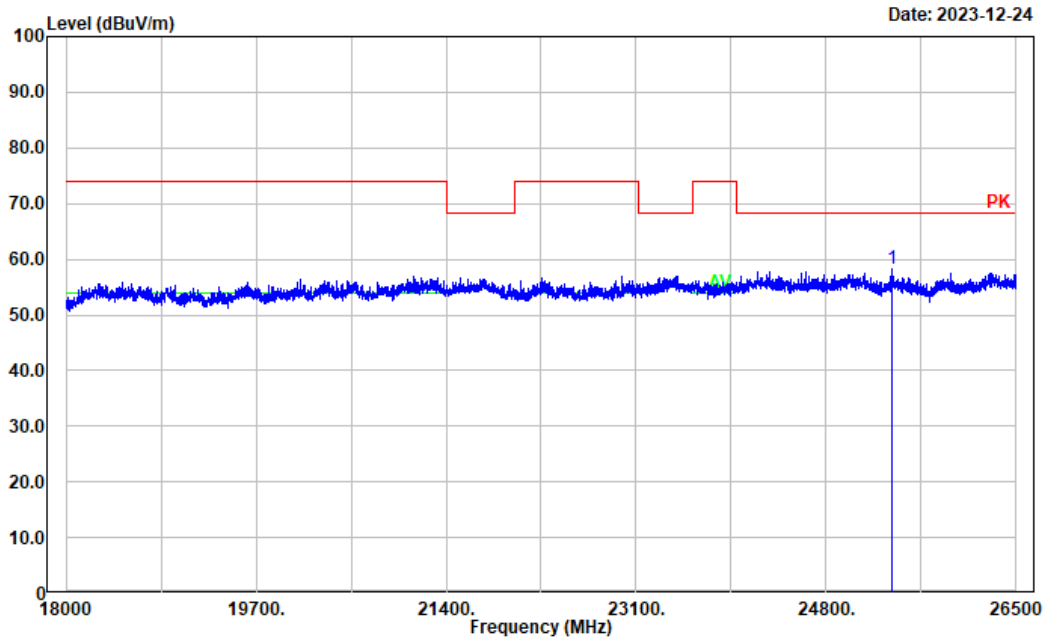
Project No.: CR231272455-RF
 Tester: Coco Tian
 Polarization: vertical
 Note:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	11590.000	24.12	21.79	45.91	54.00	8.09	Average
2	11590.000	38.32	21.79	60.11	74.00	13.89	Peak
3	17385.000	34.62	29.59	64.21	68.20	3.99	Peak

3)18-26.5GHz Horizontal:

Project No.: CR231272455-RF
 Tester: Coco Tian
 Polarization: Horizontal
 Note:

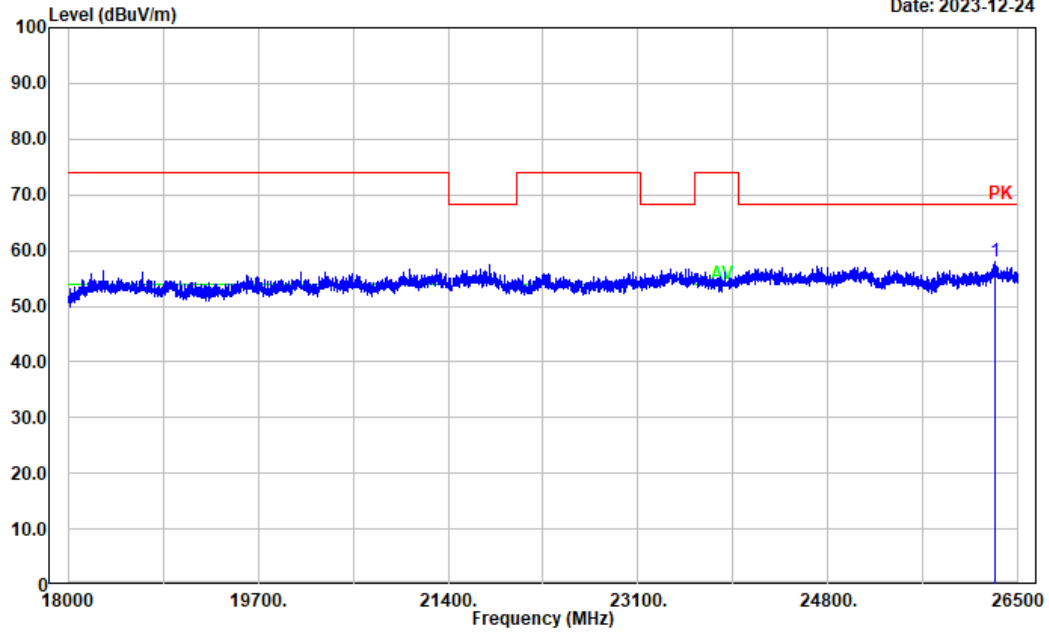


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	25387.980	51.64	6.53	58.17	68.20	10.03	Peak

Vertical:

Project No.: CR231272455-RF
 Tester: Coco Tian
 Polarization: vertical
 Note:

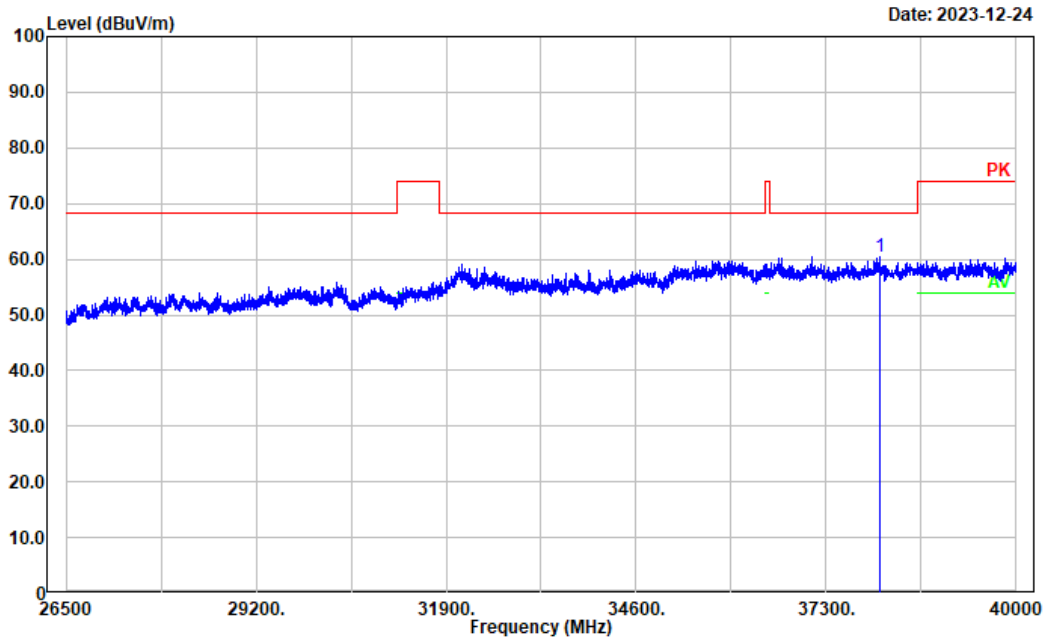
Date: 2023-12-24



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	26297.660	50.99	6.93	57.92	68.20	10.28	Peak

4)26.5-40GHz Horizontal:

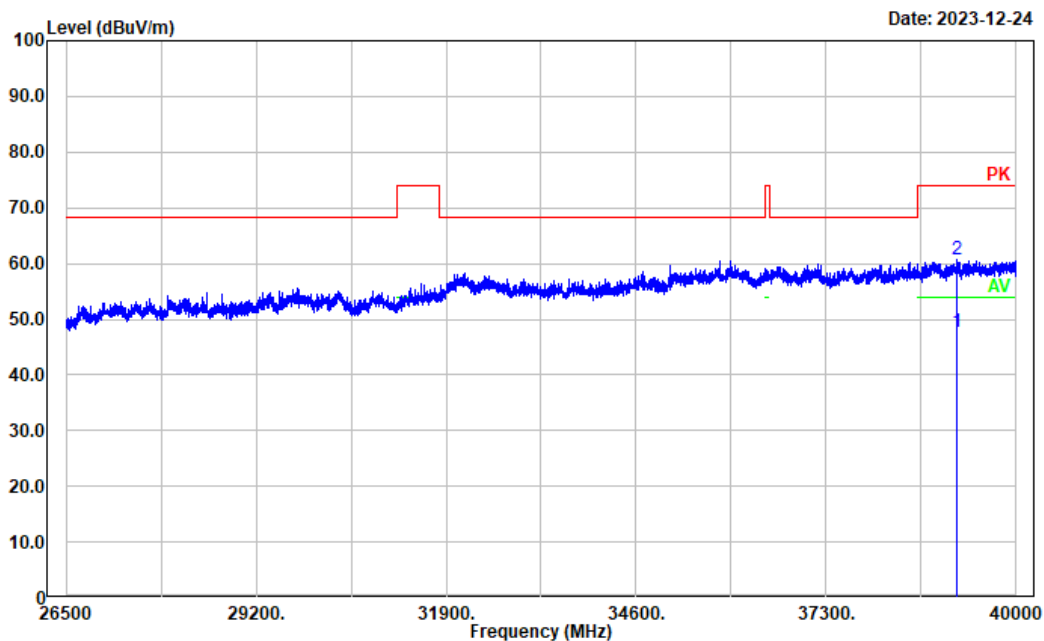
Project No.: CR231272455-RF
 Tester: Coco Tian
 Polarization: Horizontal
 Note:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	38069.110	51.11	9.36	60.47	68.20	7.73	Peak

Vertical:

Project No.: CR231272455-RF
 Tester: Coco Tian
 Polarization: Vertical
 Note:

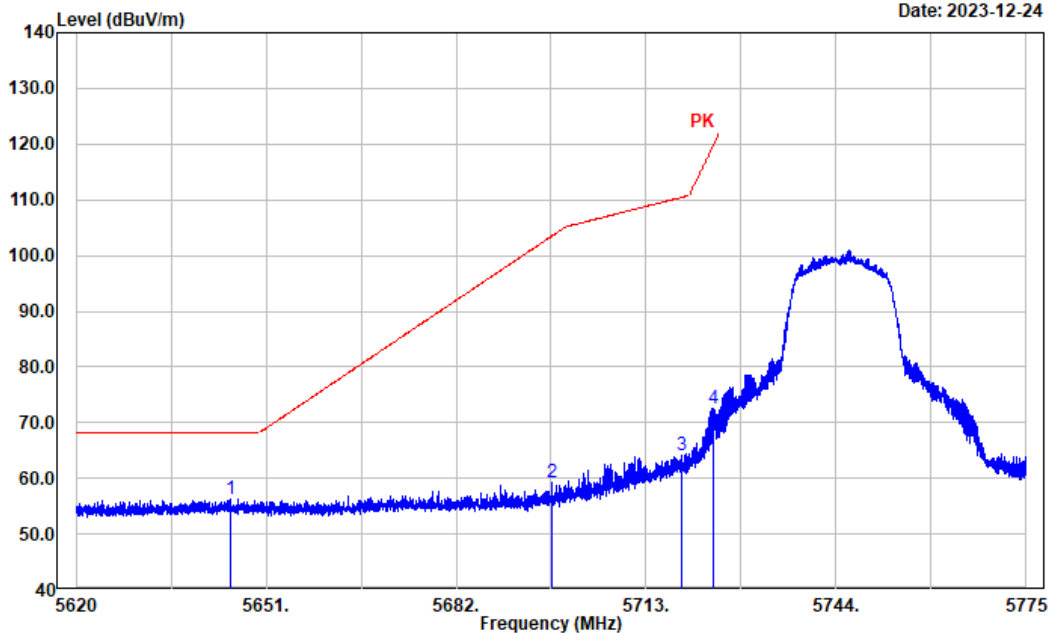


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	39165.530	37.34	10.27	47.61	54.00	6.39	Average
2	39165.530	50.49	10.27	60.76	74.00	13.24	Peak

Band Edge Measurements (Radiated):
802.11a 5745 Mode Horizontal

Project No.: CR231272455-RF
 Tester: Coco Tian
 Polarization: Horizontal
 Note:

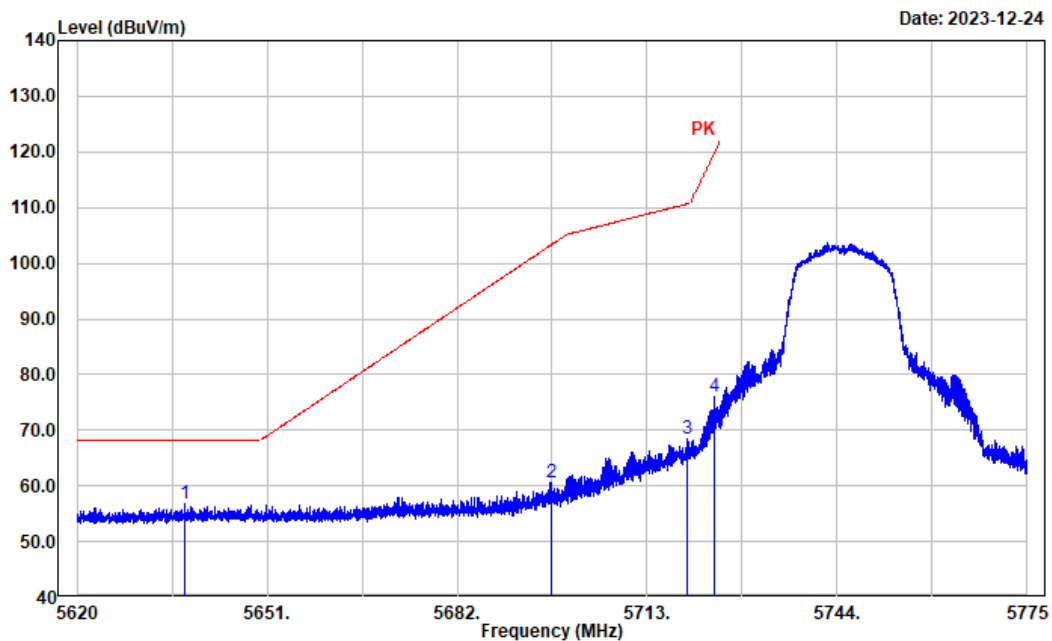
Date: 2023-12-24



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	5645.265	44.05	12.29	56.34	68.20	11.86	Peak
2	5697.655	46.83	12.54	59.37	103.47	44.10	Peak
3	5718.890	51.68	12.57	64.25	110.49	46.24	Peak
4	5723.912	60.00	12.57	72.57	119.72	47.15	Peak

Vertical:

Project No.: CR231272455-RF
 Tester: Coco Tian
 Polarization: Vertical
 Note:

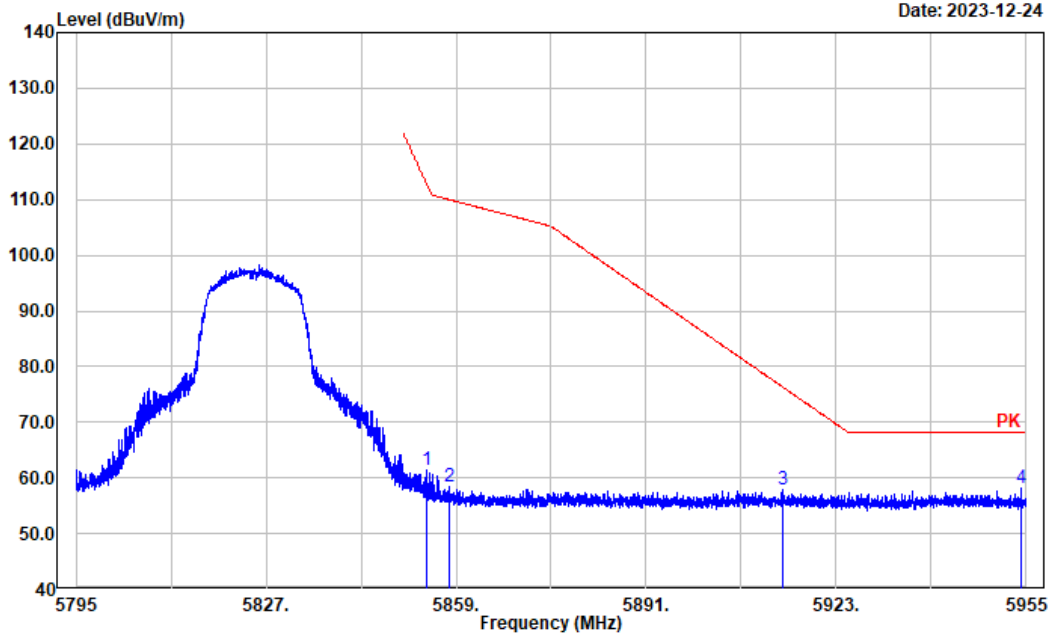


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	5637.515	44.64	12.26	56.90	68.20	11.30	Peak
2	5697.376	48.19	12.54	60.73	103.27	42.54	Peak
3	5719.510	55.86	12.57	68.43	110.66	42.23	Peak
4	5723.912	63.41	12.57	75.98	119.72	43.74	Peak

802.11a 5825 Mode Horizontal

Project No.: CR231272455-RF
 Tester: Coco Tian
 Polarization: Horizontal
 Note:

Date: 2023-12-24

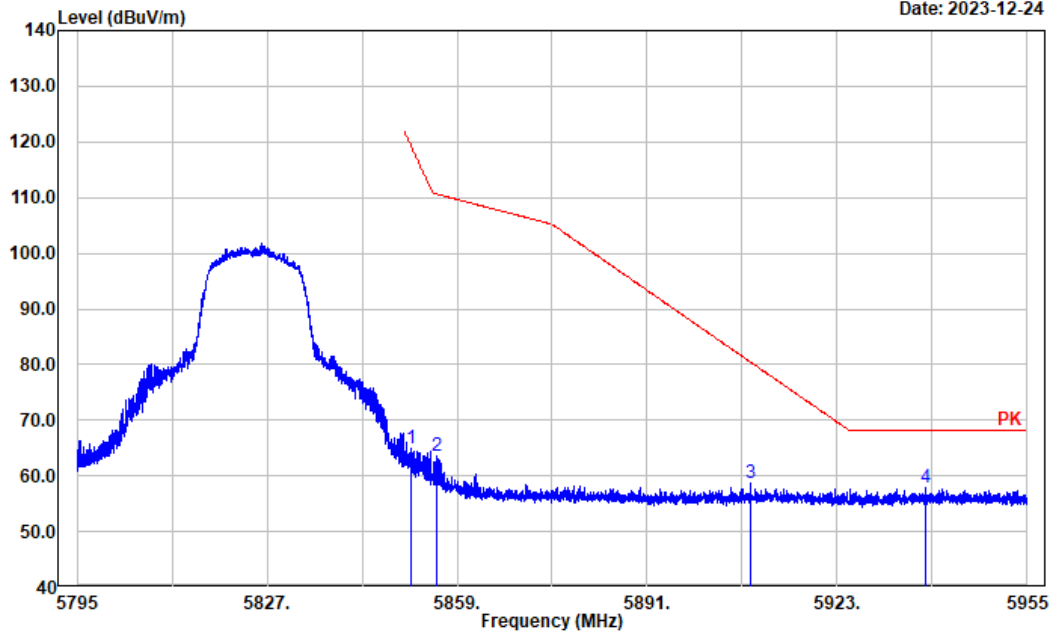


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	5854.136	48.67	12.80	61.47	112.77	51.30	Peak
2	5857.816	45.62	12.81	58.43	110.01	51.58	Peak
3	5914.008	44.95	13.02	57.97	76.31	18.34	Peak
4	5954.200	45.03	13.06	58.09	68.20	10.11	Peak

Vertical:

Project No.: CR231272455-RF
 Tester: Coco Tian
 Polarization: Vertical
 Note:

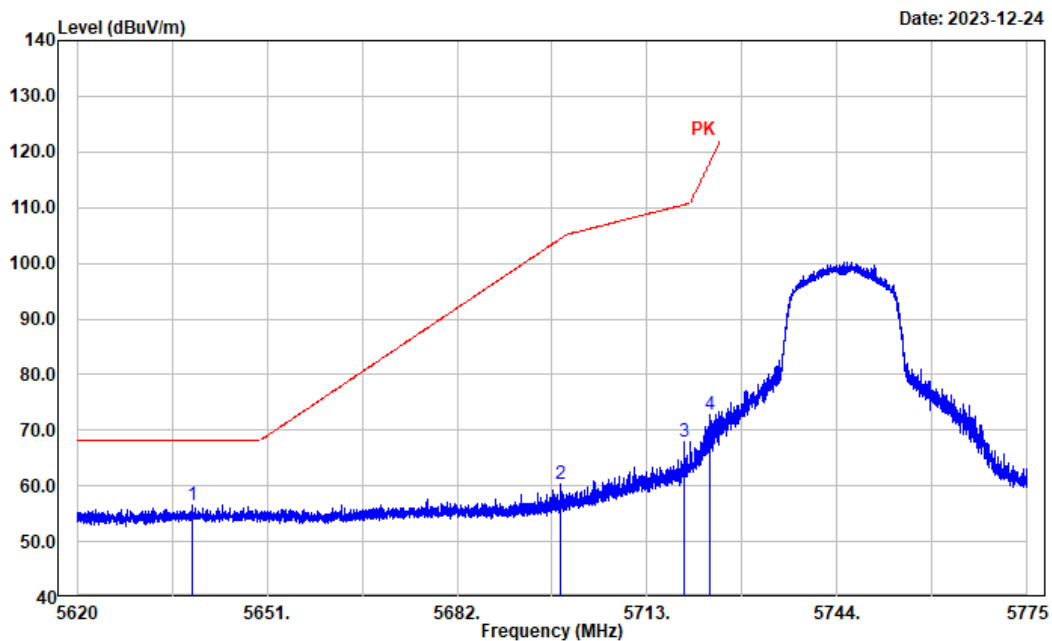
Date: 2023-12-24



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	5851.256	52.02	12.78	64.80	119.34	54.54	Peak
2	5855.480	50.75	12.80	63.55	110.67	47.12	Peak
3	5908.472	45.78	13.01	58.79	80.40	21.61	Peak
4	5937.848	44.78	13.03	57.81	68.20	10.39	Peak

802.11n ht20 5745 Mode Horizontal

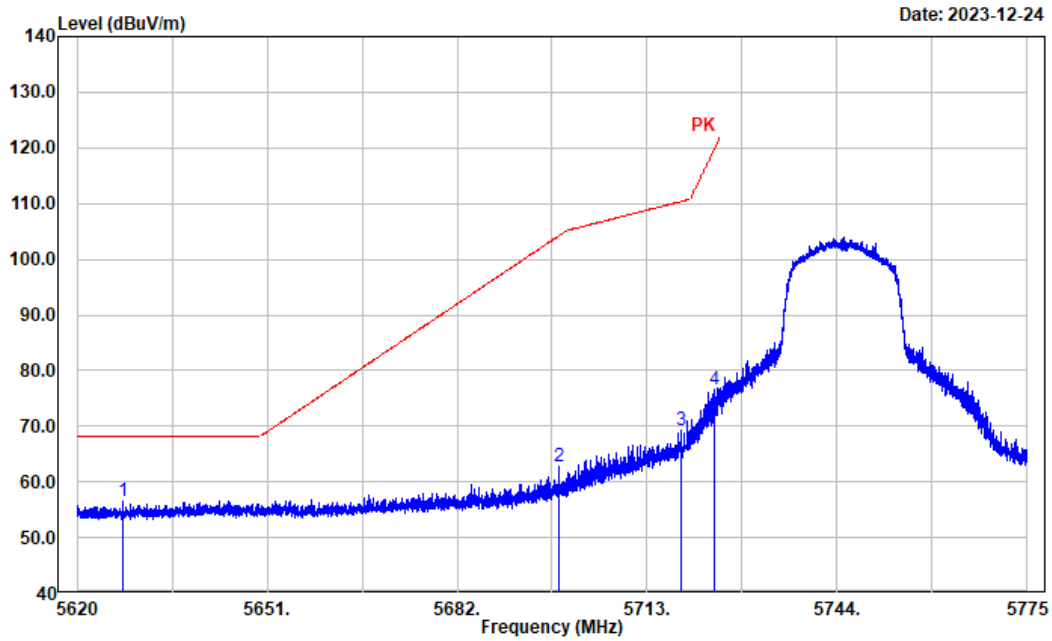
Project No.: CR231272455-RF
 Tester: Coco Tian
 Polarization: Horizontal
 Note:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	5638.817	44.36	12.26	56.62	68.20	11.58	Peak
2	5698.771	47.68	12.55	60.23	104.29	44.06	Peak
3	5719.076	55.28	12.57	67.85	110.54	42.69	Peak
4	5723.261	60.19	12.57	72.76	118.24	45.48	Peak

Vertical:

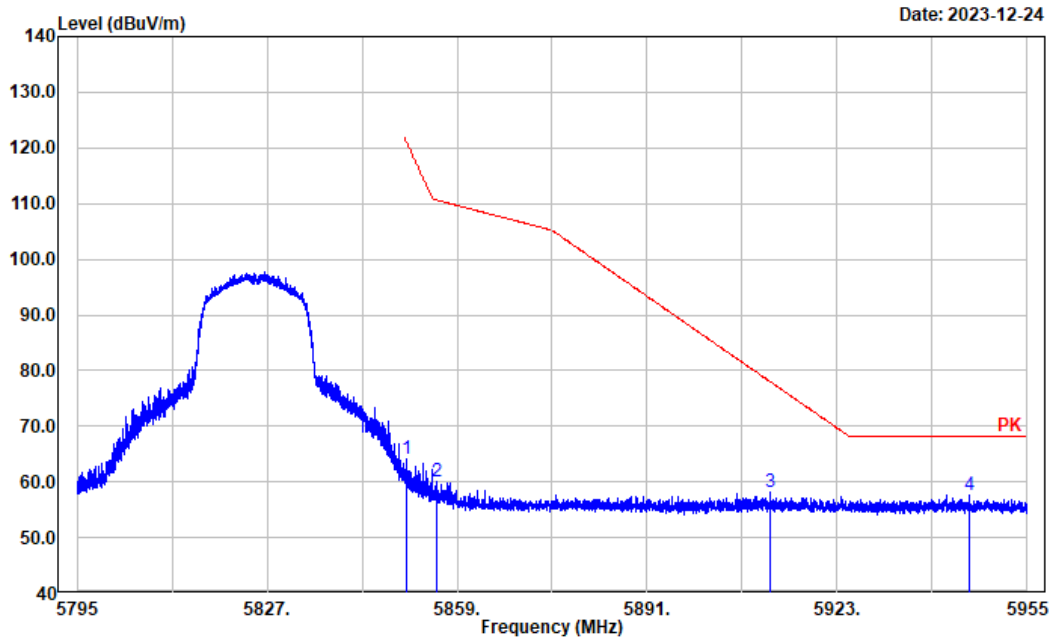
Project No.: CR231272455-RF
 Tester: Coco Tian
 Polarization: Vertical
 Note:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	5627.533	44.44	12.19	56.63	68.20	11.57	Peak
2	5698.523	50.32	12.55	62.87	104.11	41.24	Peak
3	5718.580	56.70	12.57	69.27	110.40	41.13	Peak
4	5723.912	63.99	12.57	76.56	119.72	43.16	Peak

802.11n ht20 5825 Mode Horizontal

Project No.: CR231272455-RF
 Tester: Coco Tian
 Polarization: Horizontal
 Note:

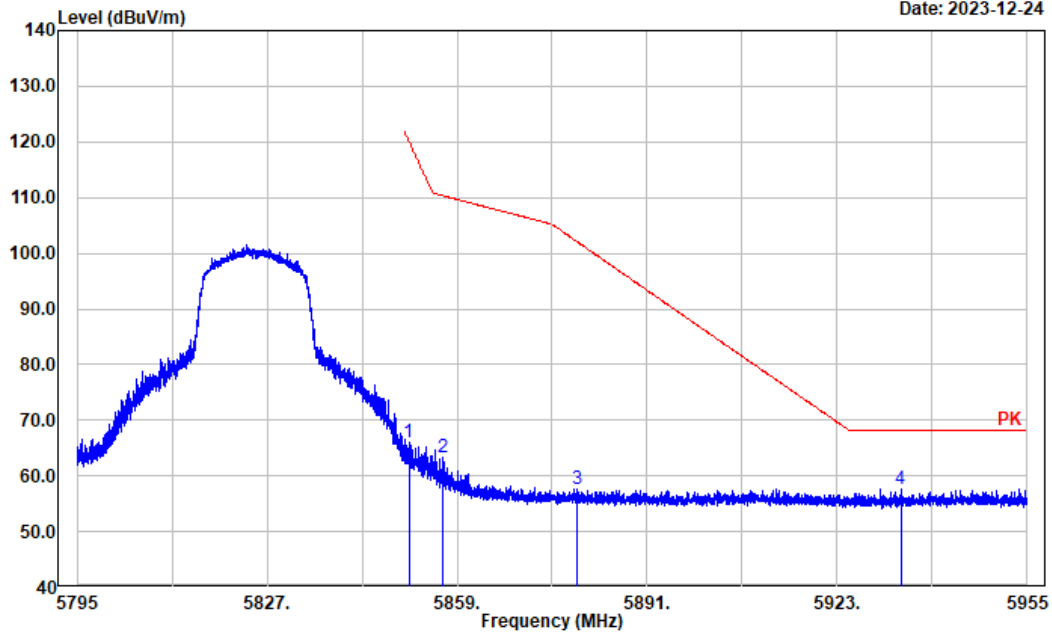


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	5850.584	51.38	12.77	64.15	120.87	56.72	Peak
2	5855.672	47.14	12.80	59.94	110.61	50.67	Peak
3	5911.736	45.04	13.03	58.07	77.98	19.91	Peak
4	5945.304	44.72	13.03	57.75	68.20	10.45	Peak

Vertical:

Project No.: CR231272455-RF
 Tester: Coco Tian
 Polarization: Vertical
 Note:

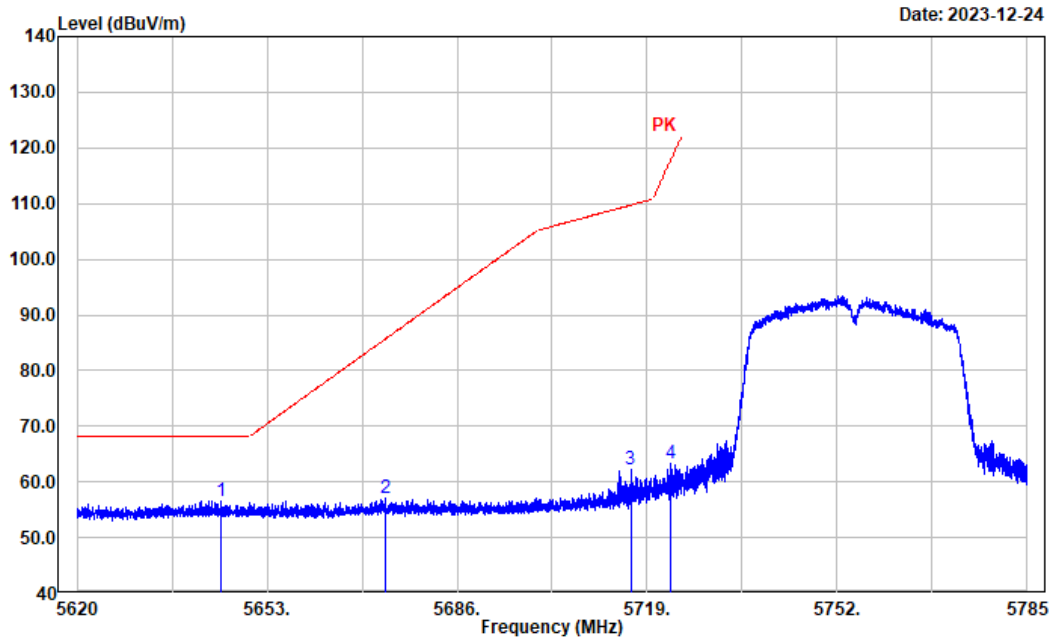
Date: 2023-12-24



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	5850.872	53.30	12.77	66.07	120.21	54.14	Peak
2	5856.696	50.40	12.81	63.21	110.32	47.11	Peak
3	5879.256	44.75	12.92	57.67	102.04	44.37	Peak
4	5933.688	44.62	13.03	57.65	68.20	10.55	Peak

802.11n ht40 5755 Mode Horizontal

Project No.: CR231272455-RF
 Tester: Coco Tian
 Polarization: Horizontal
 Note:



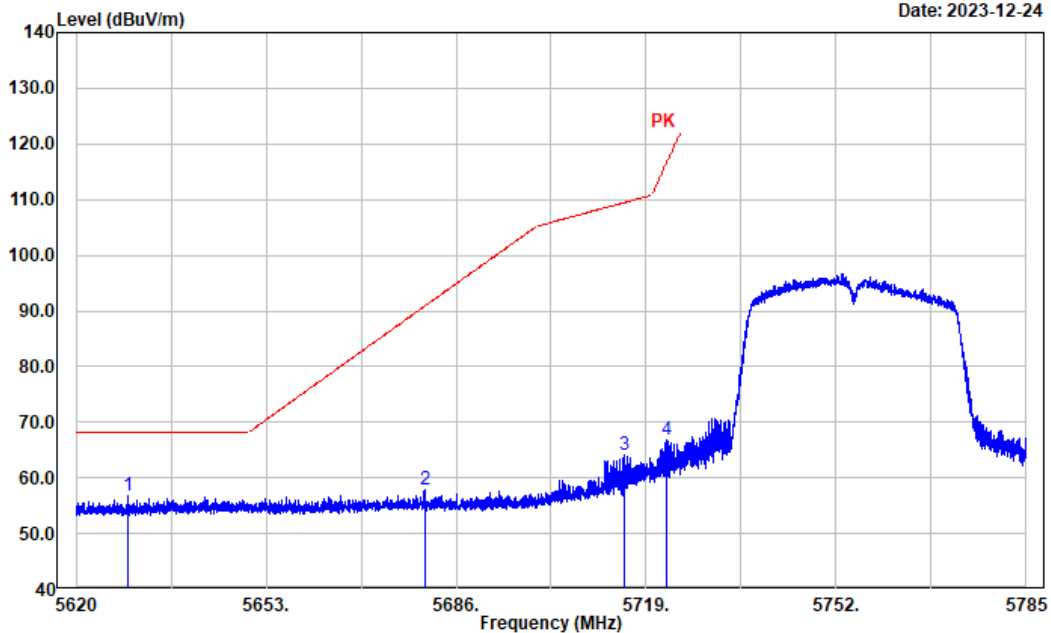
Date: 2023-12-24

No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	5645.047	44.35	12.29	56.64	68.20	11.56	Peak
2	5673.592	44.67	12.43	57.10	85.70	28.60	Peak
3	5716.129	49.68	12.56	62.24	109.72	47.48	Peak
4	5722.960	50.85	12.57	63.42	117.55	54.13	Peak

Vertical:

Project No.: CR231272455-RF
 Tester: Coco Tian
 Polarization: Vertical
 Note:

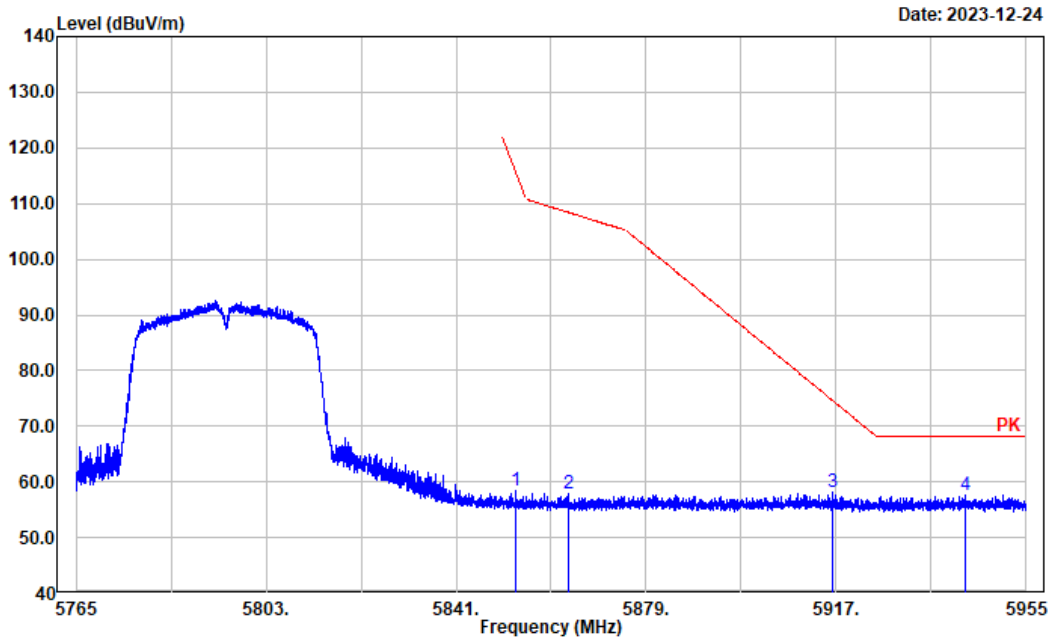
Date: 2023-12-24



No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector
1	5628.910	44.54	12.20	56.74	68.20	11.46	Peak
2	5680.753	45.30	12.46	57.76	91.00	33.24	Peak
3	5715.205	51.44	12.56	64.00	109.46	45.46	Peak
4	5722.564	54.30	12.57	66.87	116.65	49.78	Peak

802.11n ht40 5795 Mode Horizontal

Project No.: CR231272455-RF
 Tester: Coco Tian
 Polarization: Horizontal
 Note:

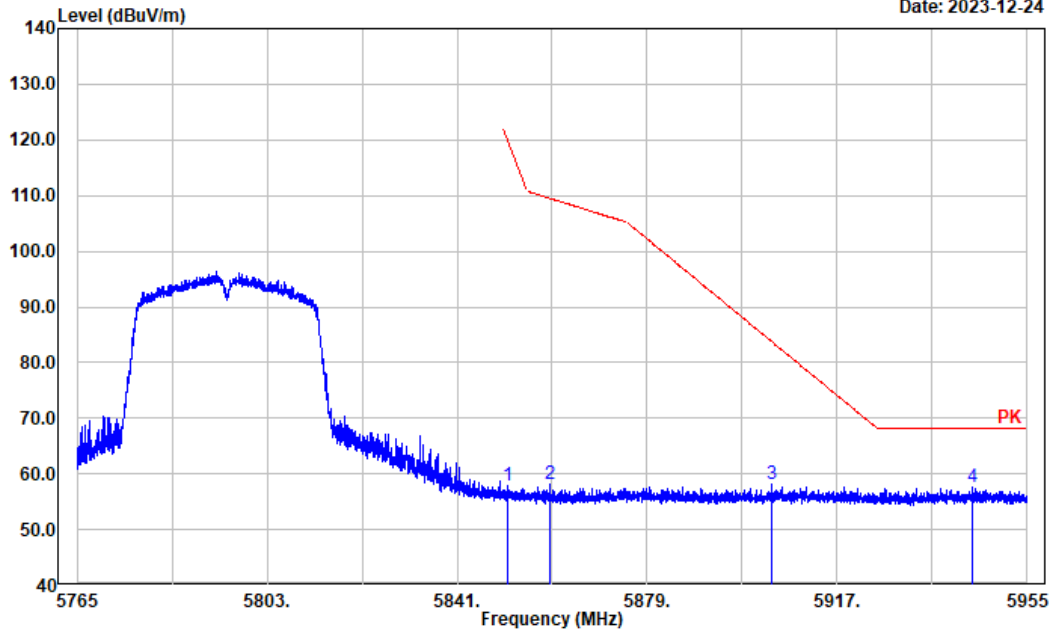


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	5852.856	45.76	12.78	58.54	115.69	57.15	Peak
2	5863.572	45.08	12.83	57.91	108.40	50.49	Peak
3	5916.278	45.23	13.03	58.26	74.63	16.37	Peak
4	5942.802	44.61	13.03	57.64	68.20	10.56	Peak

Vertical:

Project No.: CR231272455-RF
 Tester: Coco Tian
 Polarization: Vertical
 Note:

Date: 2023-12-24

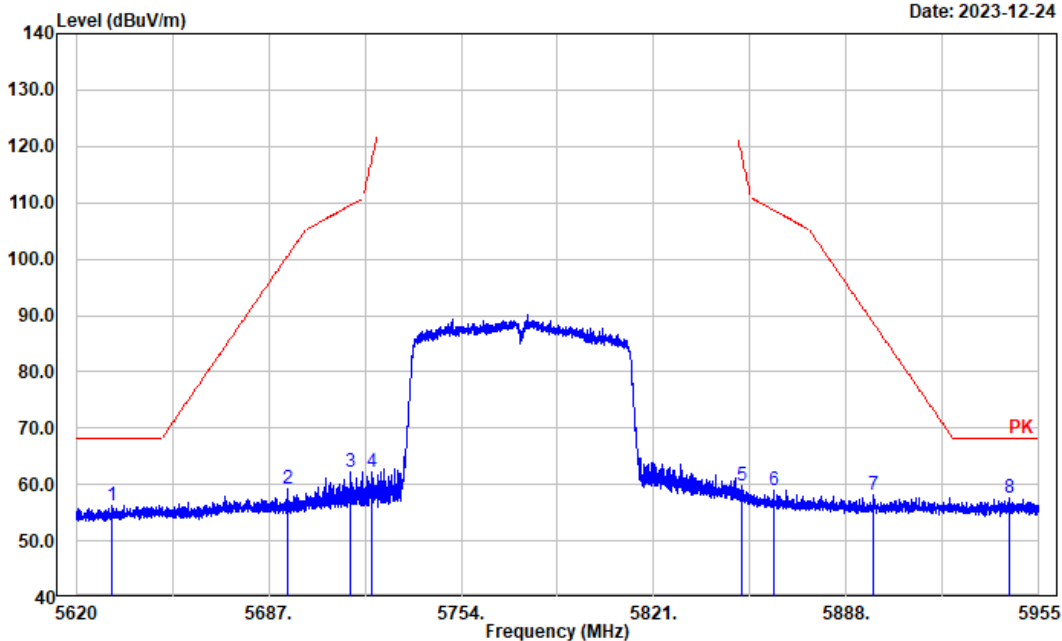


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	5851.184	45.02	12.77	57.79	119.50	61.71	Peak
2	5859.620	45.26	12.82	58.08	109.50	51.42	Peak
3	5903.852	45.15	13.02	58.17	83.81	25.64	Peak
4	5944.018	44.56	13.03	57.59	68.20	10.61	Peak

802.11ac80 5775 Mode Horizontal

Project No.: CR231272455-RF
 Tester: Coco Tian
 Polarization: Horizontal
 Note:

Date: 2023-12-24

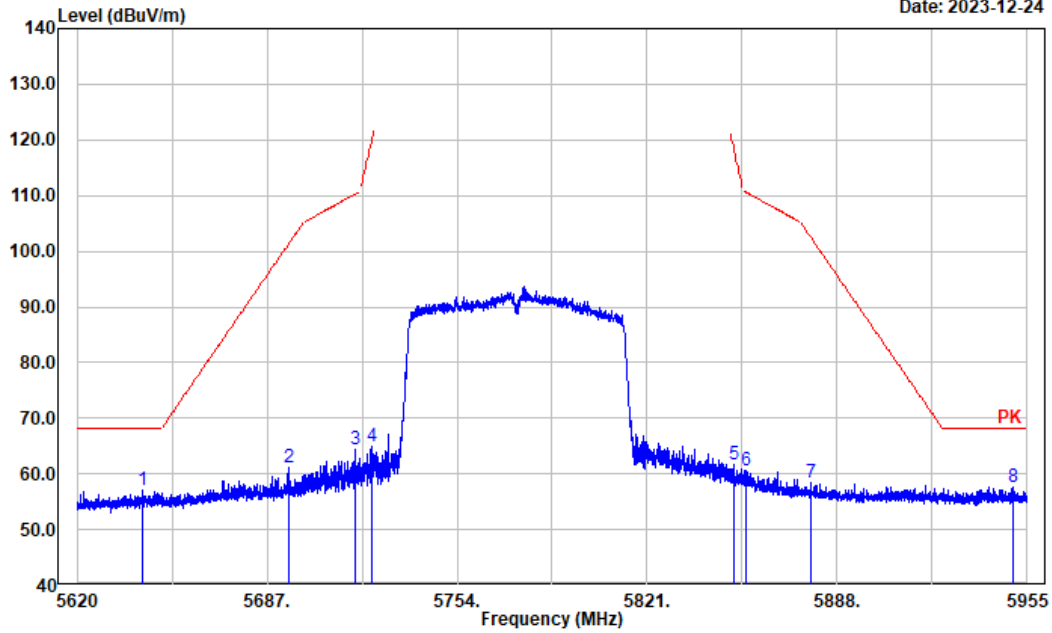


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	5632.395	43.91	12.22	56.13	68.20	12.07	Peak
2	5693.633	46.67	12.52	59.19	100.51	41.32	Peak
3	5715.609	49.59	12.56	62.15	109.57	47.42	Peak
4	5722.912	49.77	12.57	62.34	117.44	55.10	Peak
5	5851.418	46.98	12.78	59.76	118.97	59.21	Peak
6	5862.808	46.13	12.83	58.96	108.61	49.65	Peak
7	5897.380	45.02	13.01	58.03	88.60	30.57	Peak
8	5944.548	44.55	13.03	57.58	68.20	10.62	Peak

Vertical:

Project No.: CR231272455-RF
 Tester: Coco Tian
 Polarization: Vertical
 Note:

Date: 2023-12-24



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	5643.316	44.69	12.29	56.98	68.20	11.22	Peak
2	5694.504	48.59	12.52	61.11	101.15	40.04	Peak
3	5718.021	51.95	12.57	64.52	110.25	45.73	Peak
4	5723.783	52.33	12.57	64.90	119.43	54.53	Peak
5	5851.619	48.92	12.78	61.70	118.51	56.81	Peak
6	5856.041	47.82	12.80	60.62	110.51	49.89	Peak
7	5878.888	45.64	12.92	58.56	102.31	43.75	Peak
8	5949.774	44.59	13.03	57.62	68.20	10.58	Peak

4.3 Emission Bandwidth:

Serial Number:	2EOC-1	Test Date:	2023/12/17~2023/12/18
Test Site:	RF	Test Mode:	Transmitting
Tester:	Lingling Li	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	17~18	Relative Humidity: (%)	40~49	ATM Pressure: (kPa)	101.54
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101590	2023/11/16	2024/11/15
zhuoxiang	Coaxial Cable	SMA-178	211001	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:

5150-5250 MHz:

Test Modes	Test Frequency (MHz)	26 dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
802.11a	5180	20.52	16.78
	5200	20.4	16.74
	5240	20.4	16.78
802.11n ht20	5180	20.64	17.82
	5200	20.8	17.7
	5240	20.6	17.74
802.11n ht40	5190	41.52	36.28
	5230	41.44	36.28
802.11ac vht80	5210	81.44	75.12
Note: The 99% Occupied Bandwidth have not fall into the band 5250-5350MHz, please refer to the test plots of 99% Occupied Bandwidth.			

5250-5350 MHz:

Test Modes	Test Frequency (MHz)	26 dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
802.11a	5260	20.36	16.74
	5280	20.44	16.78
	5320	20.52	16.86
802.11n ht20	5260	20.64	17.78
	5280	20.68	17.7
	5320	20.68	17.74
802.11n ht40	5270	41.28	36.2
	5310	41.12	36.2
802.11ac vht80	5290	81.6	75.28

5470-5725 MHz:

Test Modes	Test Frequency (MHz)	26 dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
802.11a	5500	20.72	16.98
	5580	20.4	16.74
	5700	20.44	16.74
802.11n ht20	5500	20.96	17.94
	5580	20.68	17.78
	5700	20.6	17.74
802.11n ht40	5510	41.2	36.2
	5550	41.36	36.28
	5670	41.36	36.2
802.11ac vht80	5530	82.08	75.28
	5610	82.08	75.28

5725-5850 MHz:

Test Modes	Test Frequency (MHz)	6 dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
802.11a	5745	16.4	16.74
	5785	16.4	16.82
	5825	16.4	16.74
802.11n ht20	5745	17.64	17.78
	5785	17.64	17.74
	5825	17.68	17.7
802.11n ht40	5755	36.24	36.2
	5795	36	36.2
802.11ac vht80	5775	76.56	75.28

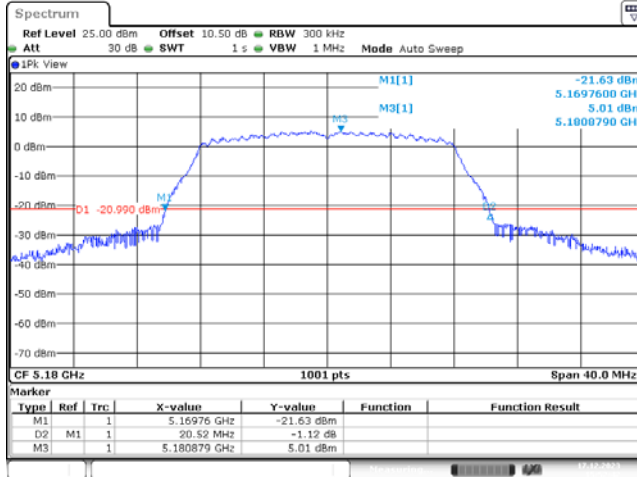
Note:6dB Emission Bandwidth Limit: ≥ 0.5 MHz

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

5150-5250MHz:

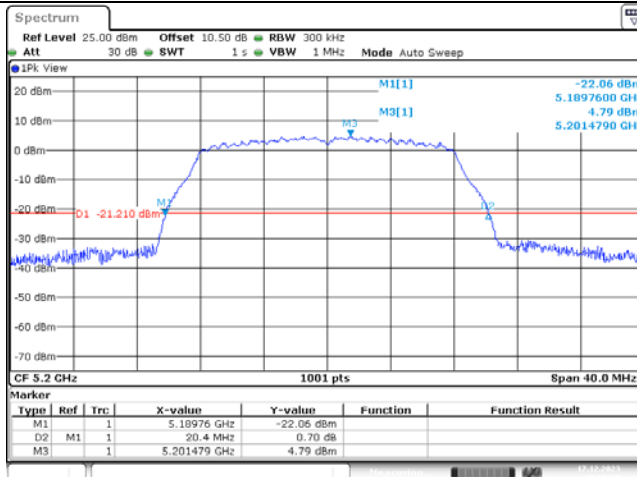
26dB Emission Bandwidth

802.11a
Lowest Channel



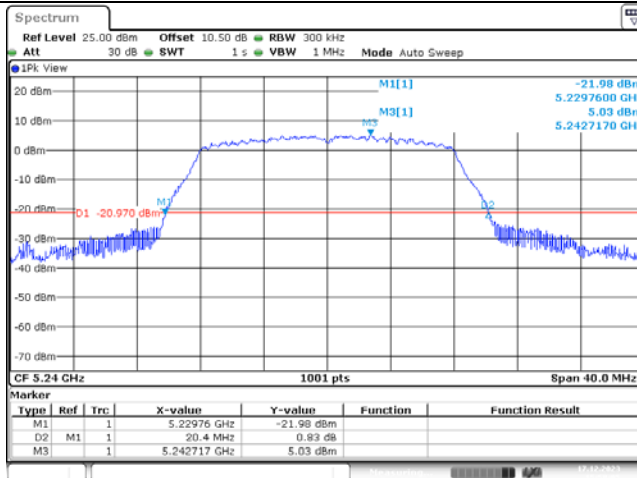
ProjectNo.:CR231272455-RF Tester:Lingling Li
Date: 17.DEC.2023 15:52:42

802.11a
Middle Channel



ProjectNo.:CR231272455-RF Tester:Lingling Li
Date: 17.DEC.2023 15:55:40

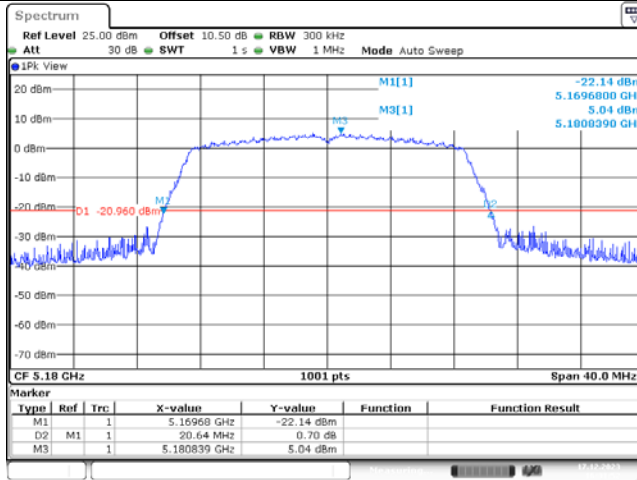
802.11a
Highest Channel



ProjectNo.:CR231272455-RF Tester:Lingling Li
Date: 17.DEC.2023 15:58:05

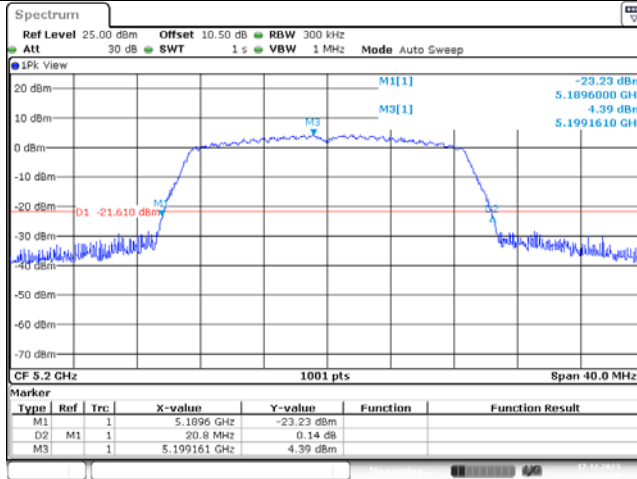
26dB Emission Bandwidth

802.11n ht20
Lowest Channel



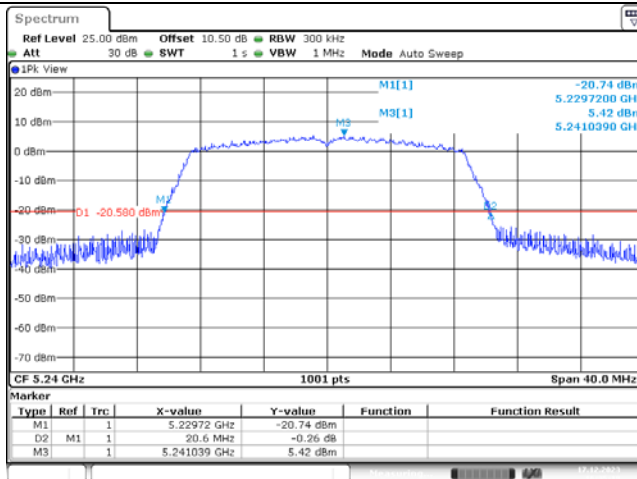
ProjectNo.:CR231272455-RF Tester:Lingling Li
Date: 17.DEC.2023 16:31:52

802.11n ht20
Middle Channel



ProjectNo.:CR231272455-RF Tester:Lingling Li
Date: 17.DEC.2023 16:33:50

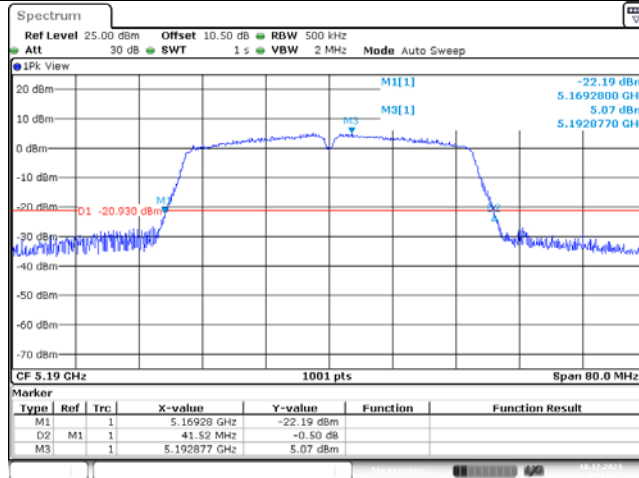
802.11n ht20
Highest Channel



ProjectNo.:CR231272455-RF Tester:Lingling Li
Date: 17.DEC.2023 16:35:19

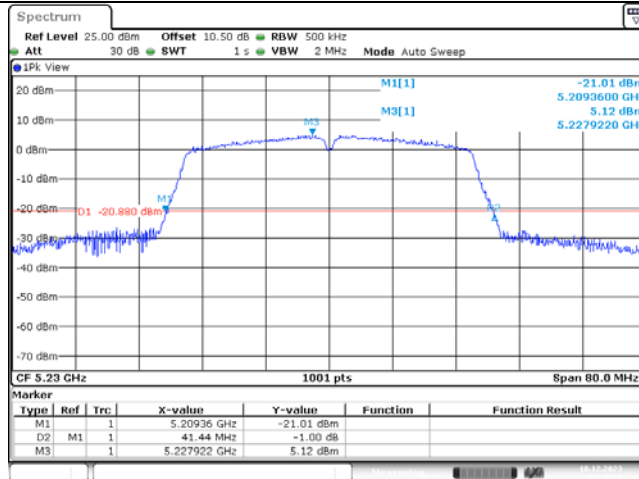
26dB Emission Bandwidth

802.11n ht40
Lowest Channel



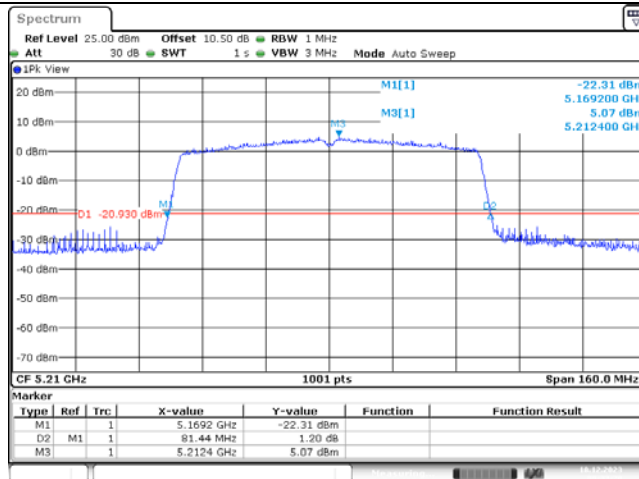
ProjectNo.:CR231272455-RF Tester:Lingling Li
Date: 18.DEC.2023 09:11:12

802.11n ht40
Highest Channel



ProjectNo.:CR231272455-RF Tester:Lingling Li
Date: 18.DEC.2023 09:20:26

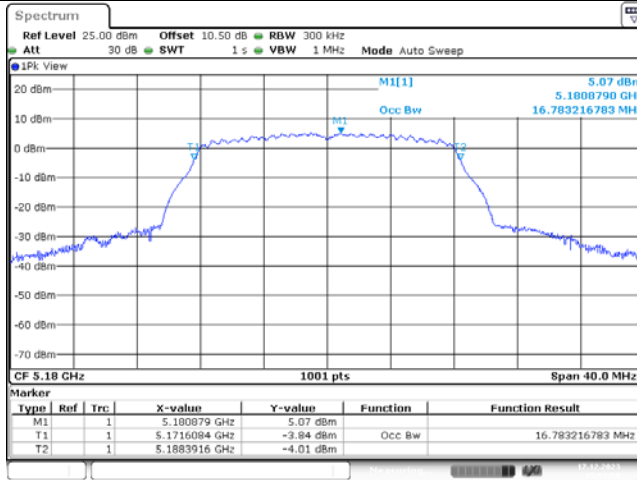
802.11ac vht80
Middle Channel



ProjectNo.:CR231272455-RF Tester:Lingling Li
Date: 18.DEC.2023 09:33:20

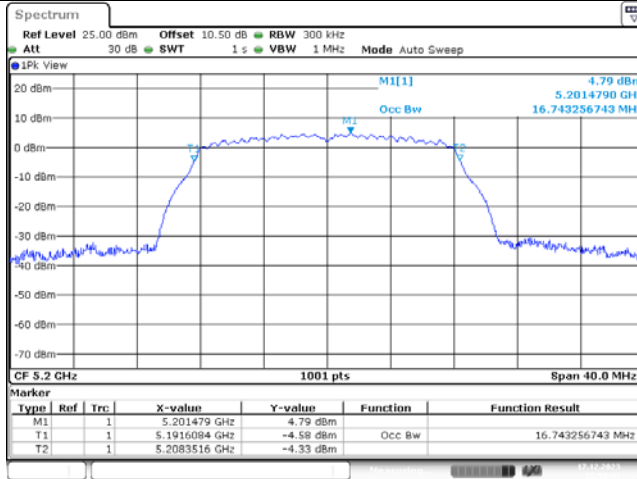
99% Emission Bandwidth

802.11a
Lowest Channel



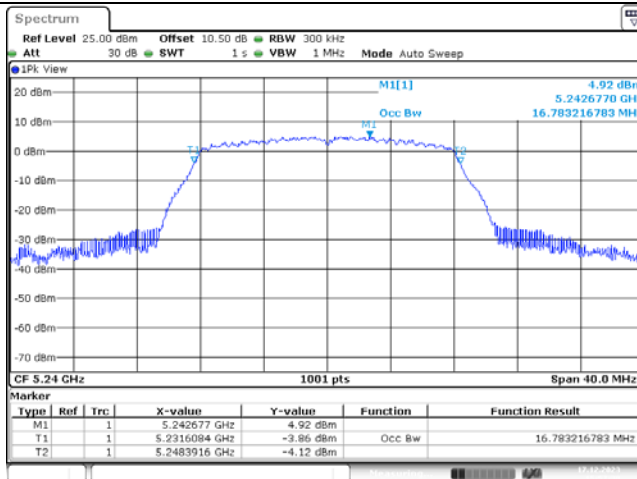
ProjectNo.:CR231272455-RF Tester:Lingling Li
Date: 17.DEC.2023 15:51:58

802.11a
Middle Channel



ProjectNo.:CR231272455-RF Tester:Lingling Li
Date: 17.DEC.2023 15:54:48

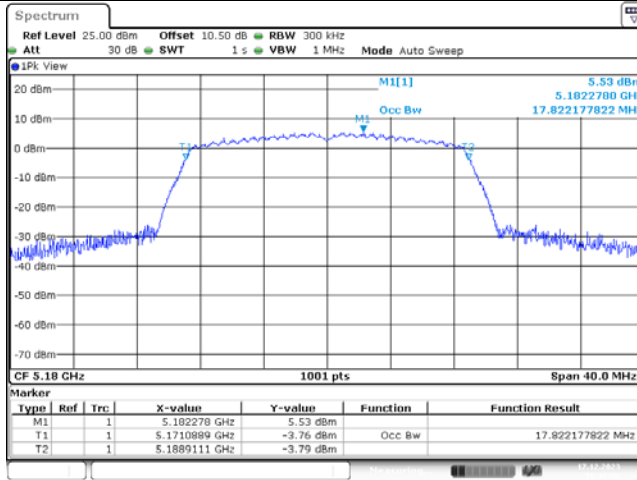
802.11a
Highest Channel



ProjectNo.:CR231272455-RF Tester:Lingling Li
Date: 17.DEC.2023 15:57:30

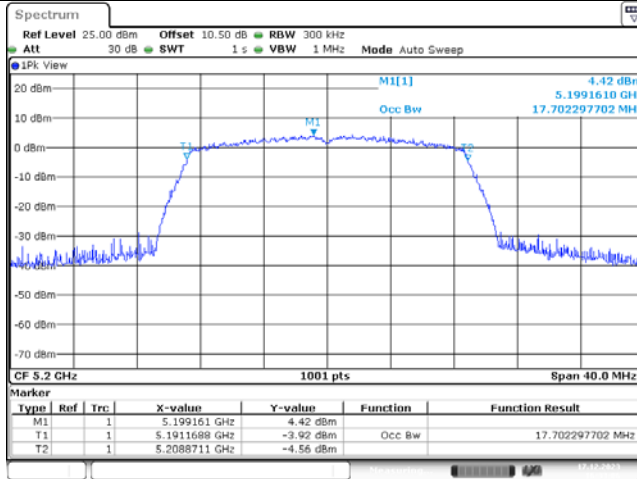
99% Emission Bandwidth

802.11n ht20
Lowest Channel



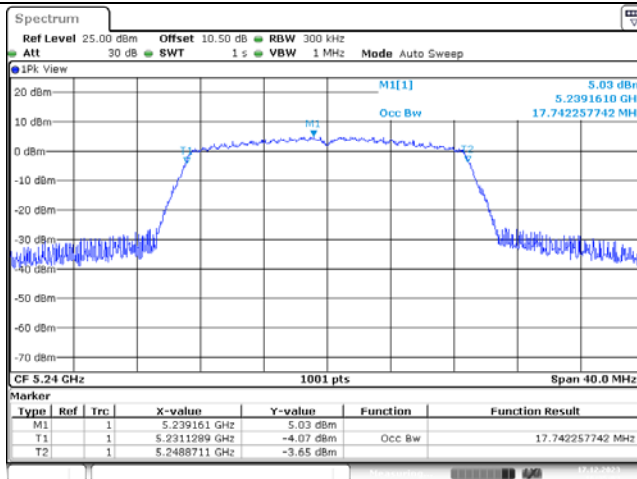
ProjectNo.:CR231272455-RF Tester:Lingling Li
Date: 17.DEC.2023 16:31:36

802.11n ht20
Middle Channel



ProjectNo.:CR231272455-RF Tester:Lingling Li
Date: 17.DEC.2023 16:33:06

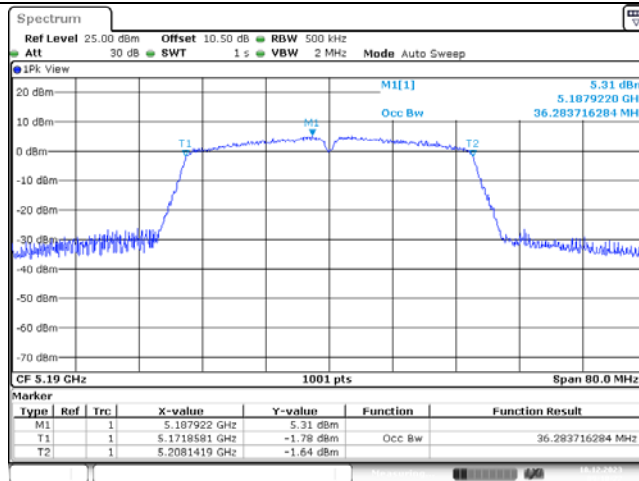
802.11n ht20
Highest Channel



ProjectNo.:CR231272455-RF Tester:Lingling Li
Date: 17.DEC.2023 16:35:03

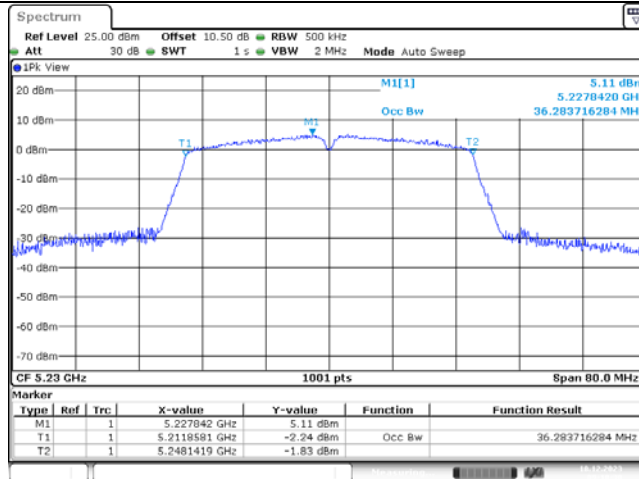
99% Emission Bandwidth

802.11n ht40
Lowest Channel



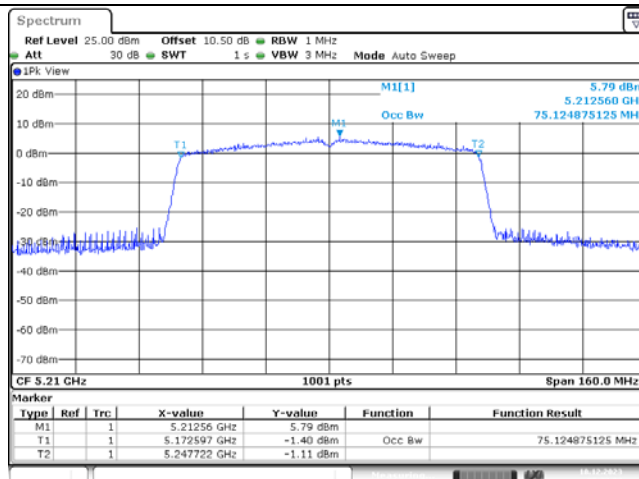
ProjectNo.:CR231272455-RF Tester:Lingling Li
Date: 18.DEC.2023 09:10:23

802.11n ht40
Highest Channel



ProjectNo.:CR231272455-RF Tester:Lingling Li
Date: 18.DEC.2023 09:18:30

802.11ac vht80
Middle Channel

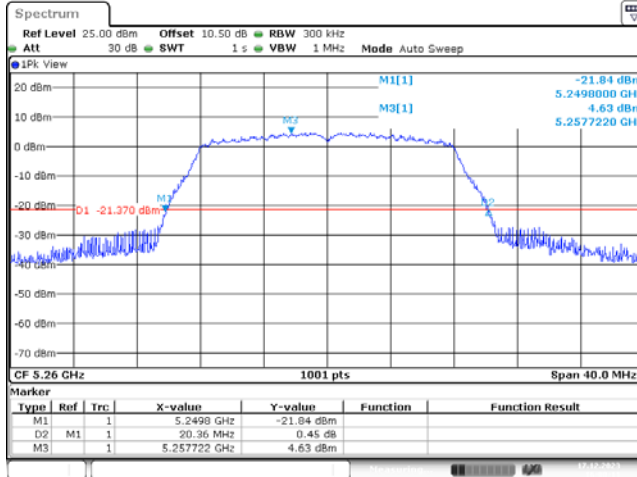


ProjectNo.:CR231272455-RF Tester:Lingling Li
Date: 18.DEC.2023 09:33:02

5250-5350MHz:

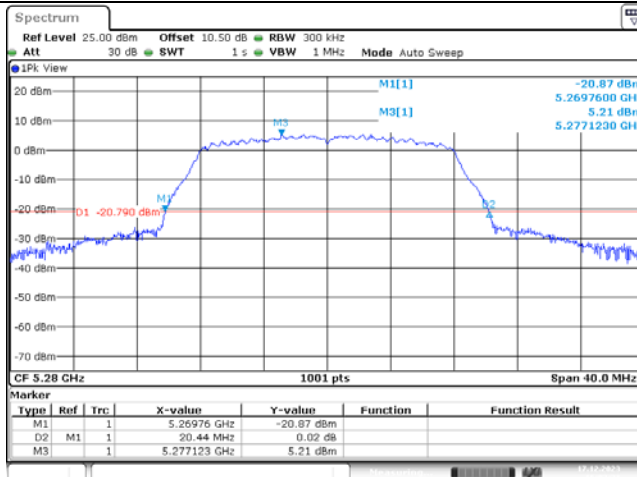
26dB Emission Bandwidth

802.11a
Lowest Channel



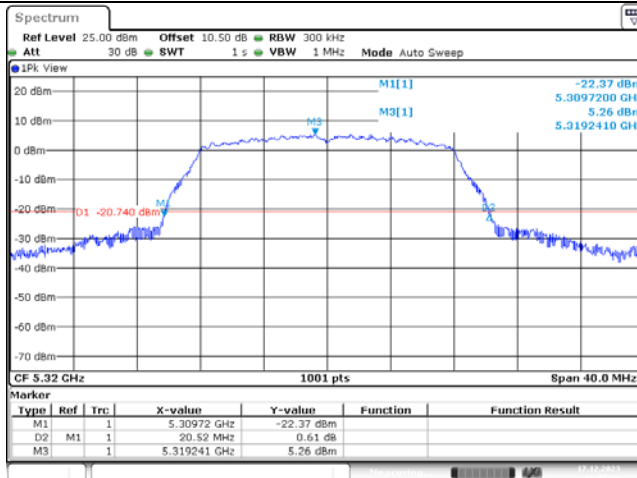
ProjectNo.:CR231272455-RF Tester:Lingling Li
Date: 17.DEC.2023 16:00:11

802.11a
Middle Channel



ProjectNo.:CR231272455-RF Tester:Lingling Li
Date: 17.DEC.2023 16:02:21

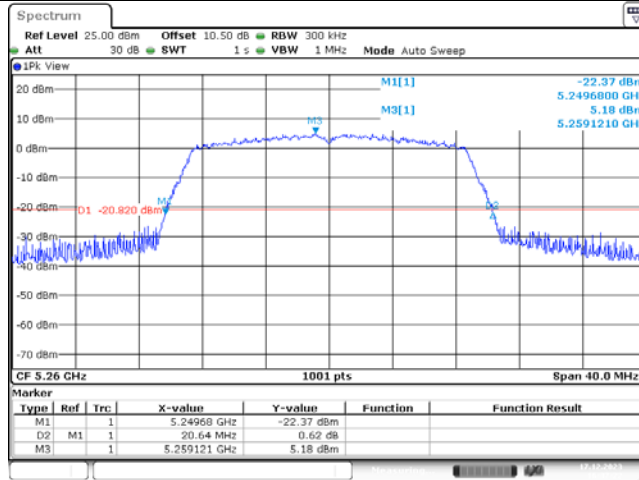
802.11a
Highest Channel



ProjectNo.:CR231272455-RF Tester:Lingling Li
Date: 17.DEC.2023 16:05:39

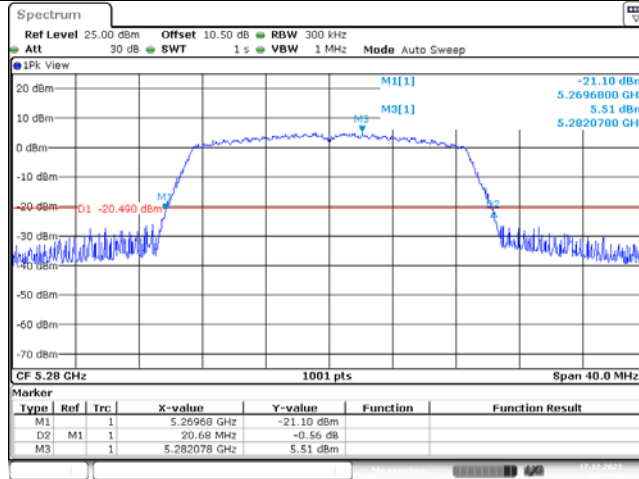
26dB Emission Bandwidth

802.11n ht20
Lowest Channel



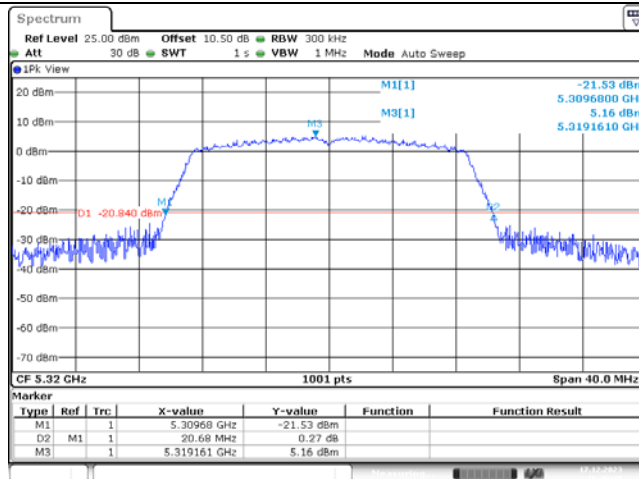
ProjectNo.:CR231272455-RF Tester:Lingling Li
Date: 17.DEC.2023 16:37:22

802.11n ht20
Middle Channel



ProjectNo.:CR231272455-RF Tester:Lingling Li
Date: 17.DEC.2023 16:39:02

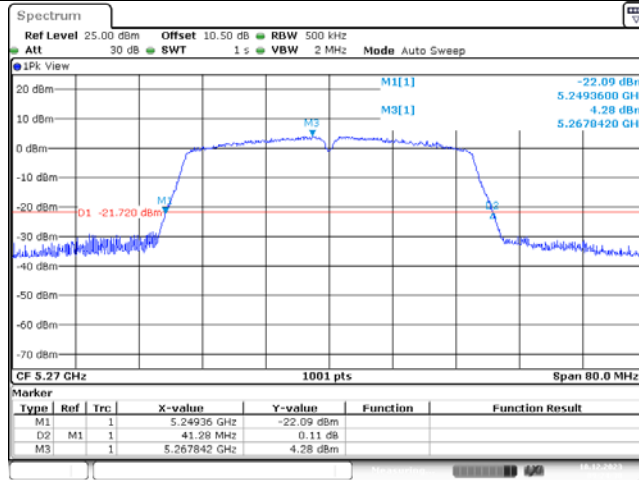
802.11n ht20
Highest Channel



ProjectNo.:CR231272455-RF Tester:Lingling Li
Date: 17.DEC.2023 16:40:41

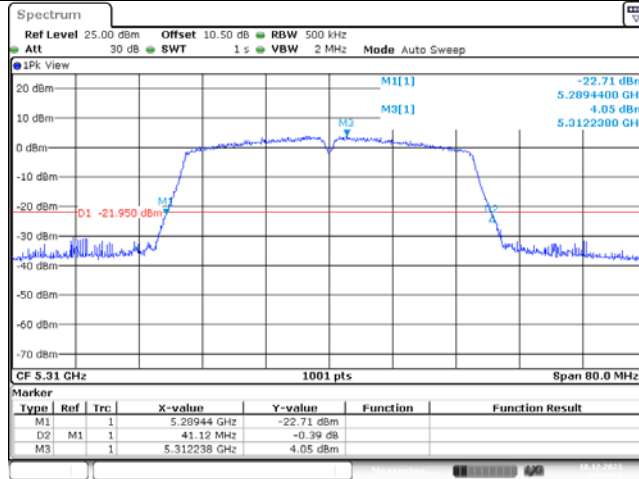
26dB Emission Bandwidth

802.11n ht40
Lowest Channel



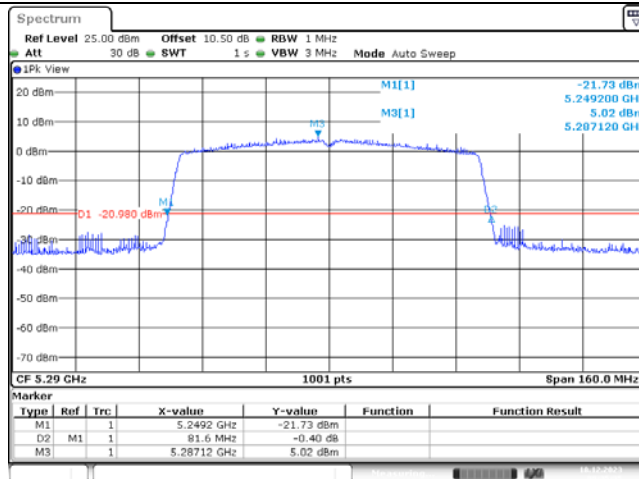
ProjectNo.:CR231272455-RF Tester:Lingling Li
Date: 18.DEC.2023 09:24:31

802.11n ht40
Highest Channel



ProjectNo.:CR231272455-RF Tester:Lingling Li
Date: 18.DEC.2023 09:26:58

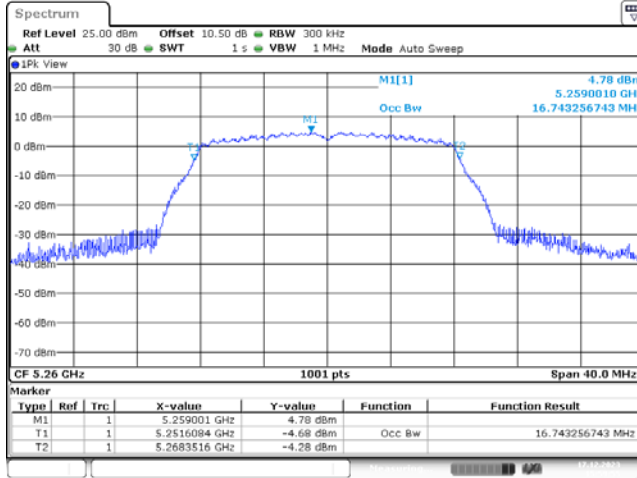
802.11ac vht80
Middle Channel



ProjectNo.:CR231272455-RF Tester:Lingling Li
Date: 18.DEC.2023 09:35:35

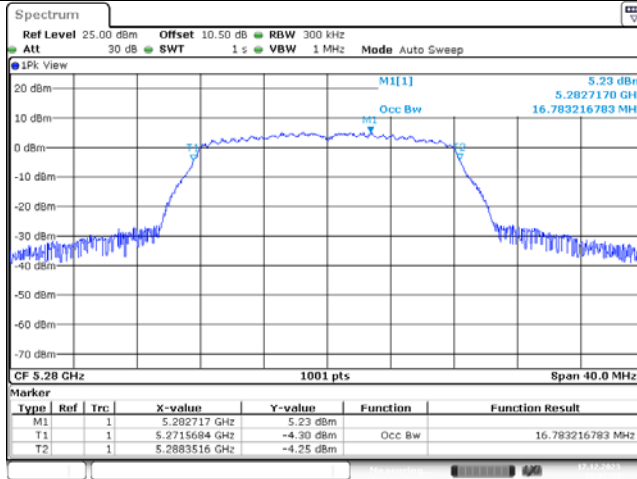
99% Emission Bandwidth

802.11a
Lowest Channel



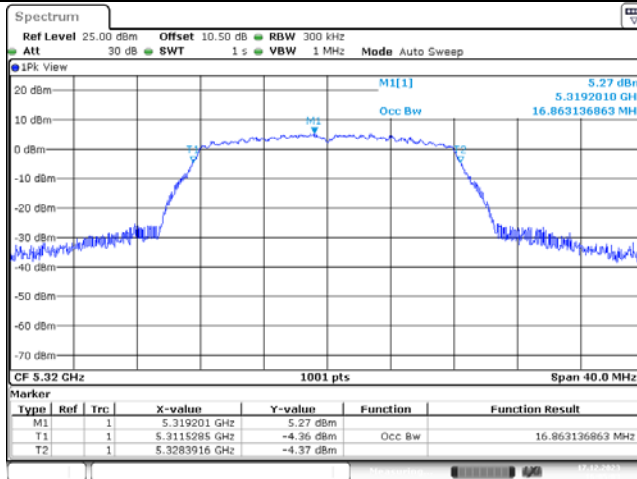
ProjectNo.:CR231272455-RF Tester:Lingling Li
Date: 17.DEC.2023 15:59:55

802.11a
Middle Channel



ProjectNo.:CR231272455-RF Tester:Lingling Li
Date: 17.DEC.2023 16:01:34

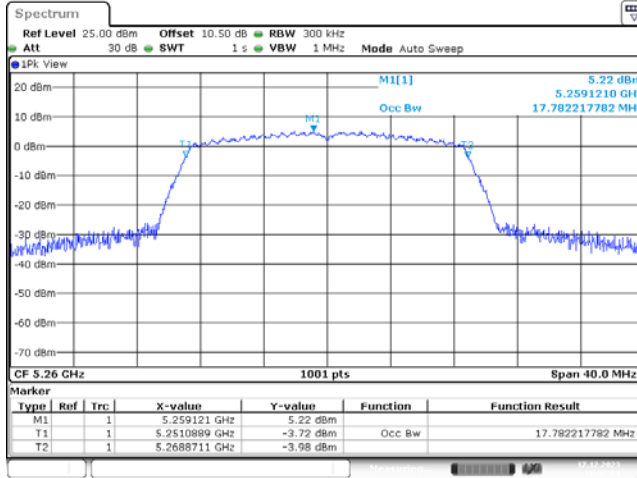
802.11a
Highest Channel



ProjectNo.:CR231272455-RF Tester:Lingling Li
Date: 17.DEC.2023 16:05:02

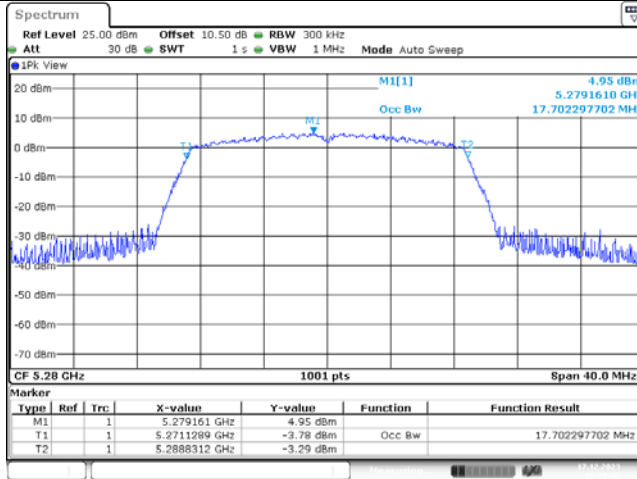
99% Emission Bandwidth

802.11n ht20
Lowest Channel



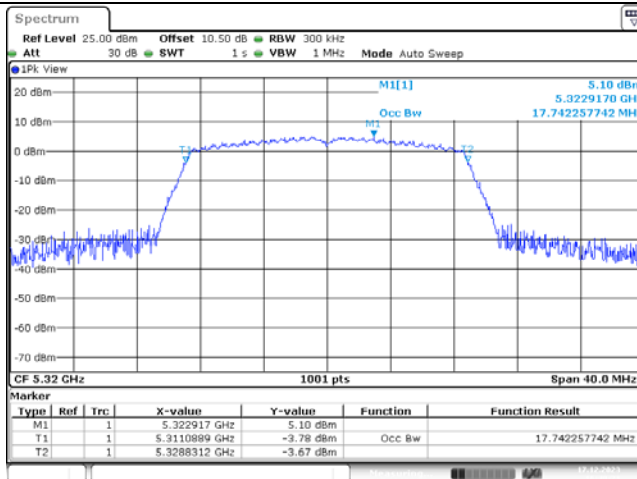
ProjectNo.:CR231272455-RF Tester:Lingling Li
Date: 17.DEC.2023 16:37:04

802.11n ht20
Middle Channel



ProjectNo.:CR231272455-RF Tester:Lingling Li
Date: 17.DEC.2023 16:38:47

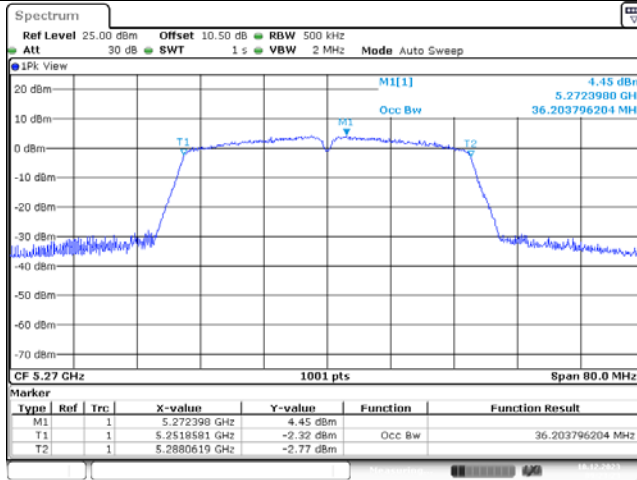
802.11n ht20
Highest Channel



ProjectNo.:CR231272455-RF Tester:Lingling Li
Date: 17.DEC.2023 16:40:21

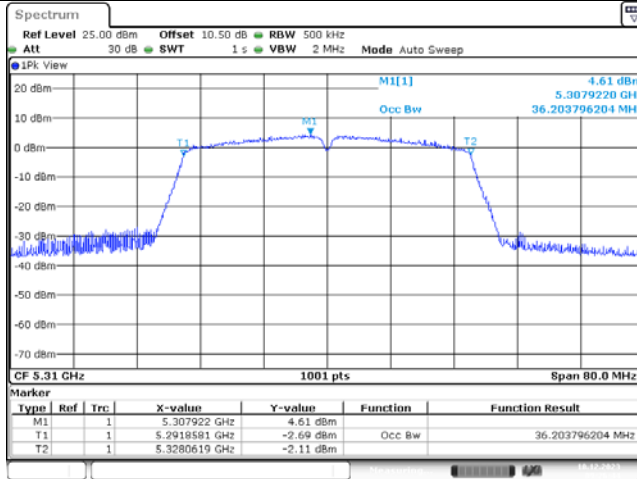
99% Emission Bandwidth

802.11n ht40
Lowest Channel



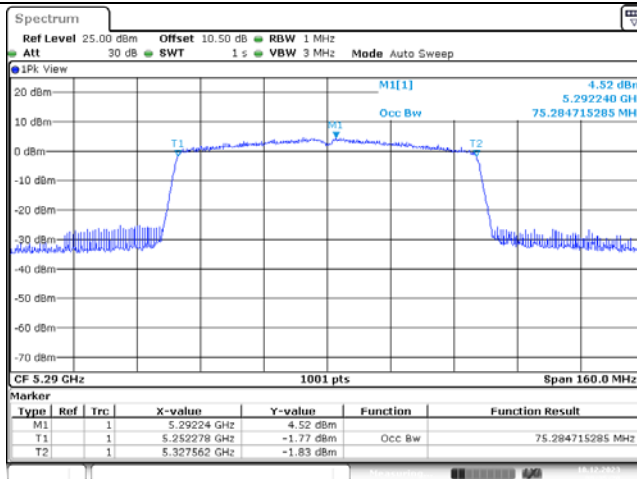
ProjectNo.:CR231272455-RF Tester:Lingling Li
Date: 18.DEC.2023 09:23:23

802.11n ht40
Highest Channel



ProjectNo.:CR231272455-RF Tester:Lingling Li
Date: 18.DEC.2023 09:26:44

802.11ac vht80
Middle Channel

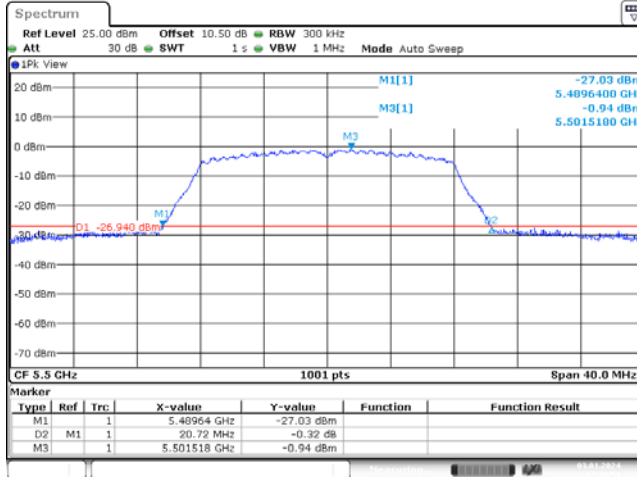


ProjectNo.:CR231272455-RF Tester:Lingling Li
Date: 18.DEC.2023 09:35:21

5470-5725MHz:

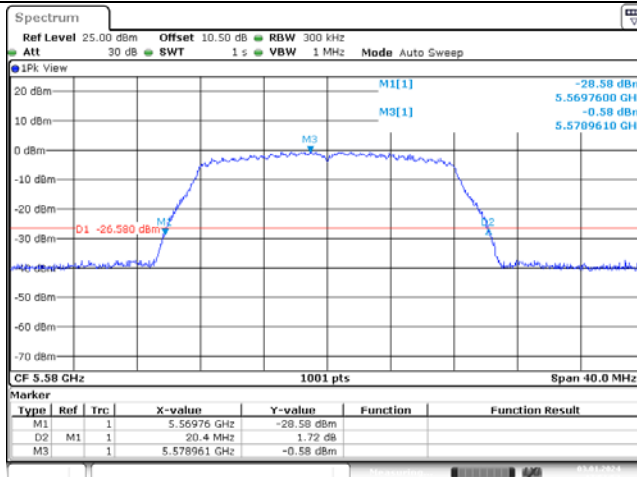
26dB Emission Bandwidth

802.11a
Lowest Channel



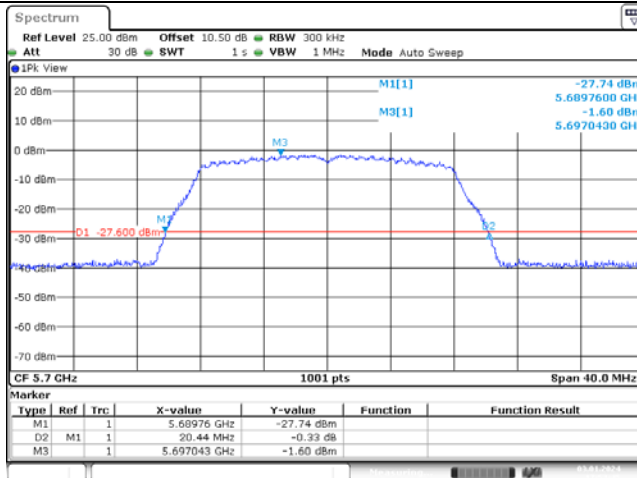
ProjectNo.:CR231272455-RF Tester:Lingling Li
Date: 3.JAN.2024 17:49:54

802.11a
Middle Channel



ProjectNo.:CR231272455-RF Tester:Lingling Li
Date: 3.JAN.2024 17:51:54

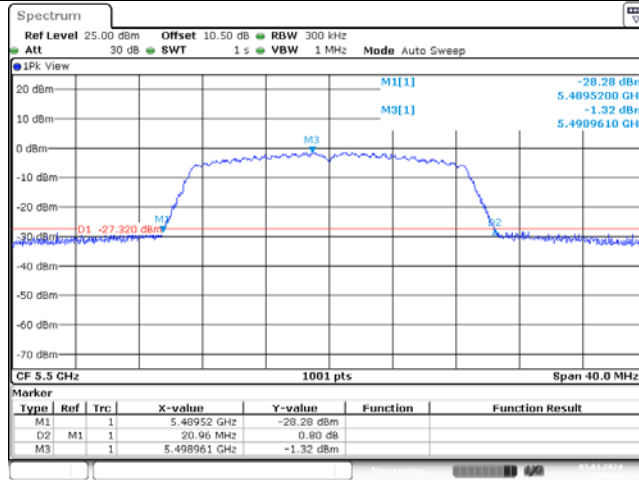
802.11a
Highest Channel



ProjectNo.:CR231272455-RF Tester:Lingling Li
Date: 3.JAN.2024 17:53:45

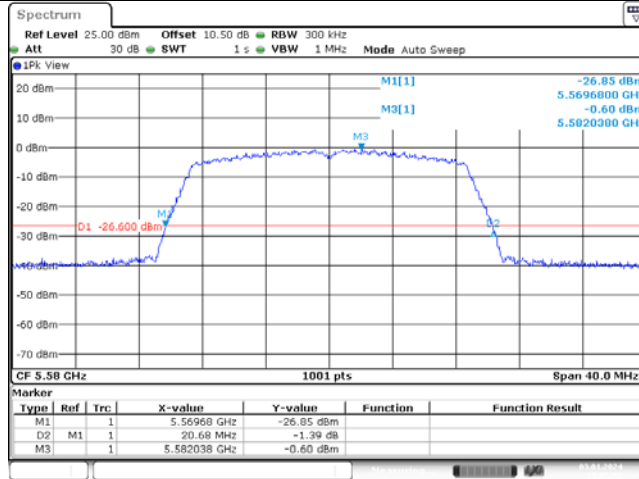
26dB Emission Bandwidth

802.11n ht20
Lowest Channel



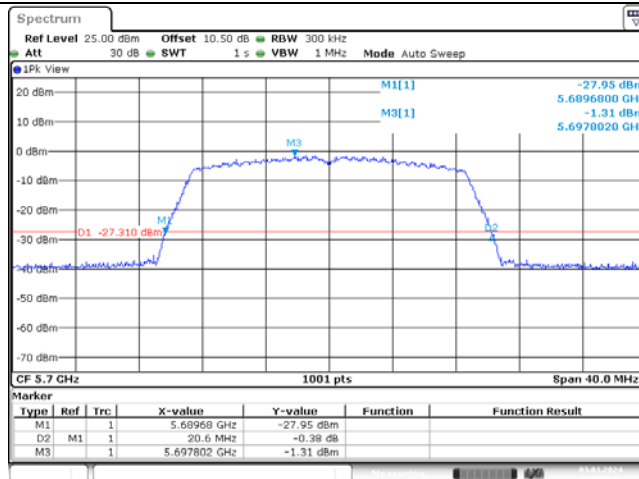
ProjectNo.:CR231272455-RF Tester:Lingling Li
Date: 3.JAN.2024 17:59:34

802.11n ht20
Middle Channel



ProjectNo.:CR231272455-RF Tester:Lingling Li
Date: 3.JAN.2024 18:05:53

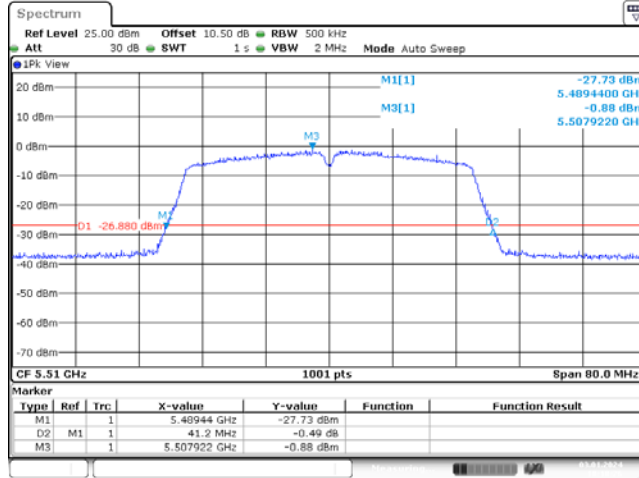
802.11n ht20
Highest Channel



ProjectNo.:CR231272455-RF Tester:Lingling Li
Date: 3.JAN.2024 18:07:46

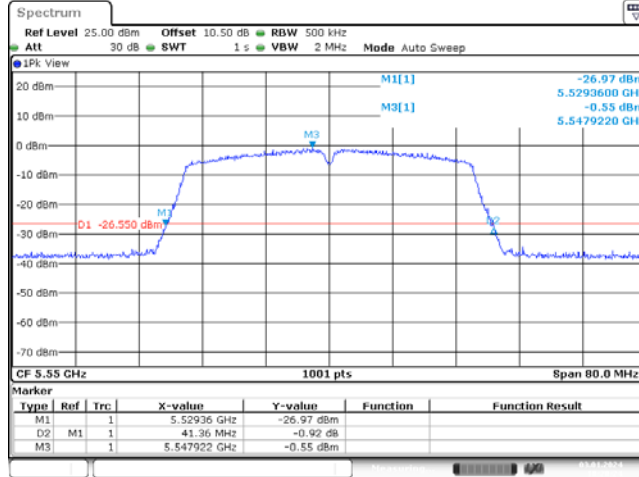
26dB Emission Bandwidth

802.11n ht40
Lowest Channel



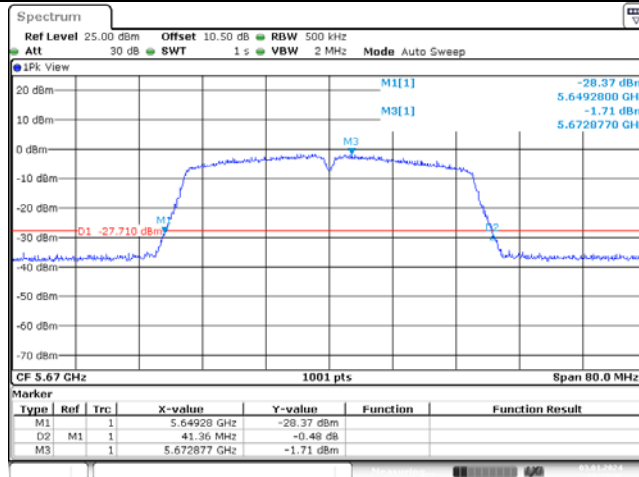
ProjectNo.:CR231272455-RF Tester:Lingling Li
Date: 3.JAN.2024 18:18:26

802.11n ht40
Middle Channel



ProjectNo.:CR231272455-RF Tester:Lingling Li
Date: 3.JAN.2024 18:20:25

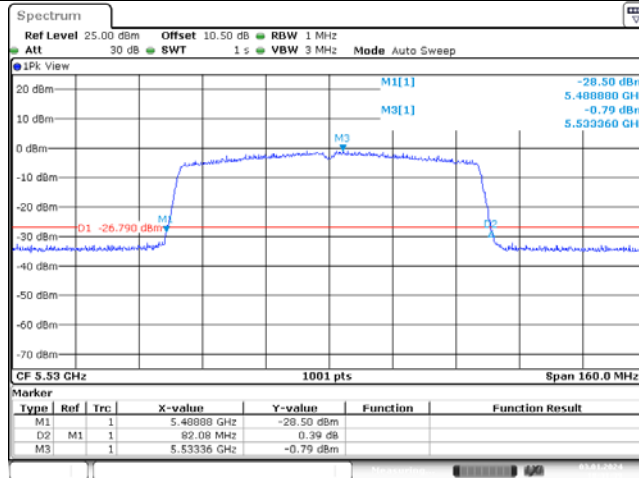
802.11n ht40
Highest Channel



ProjectNo.:CR231272455-RF Tester:Lingling Li
Date: 3.JAN.2024 18:23:37

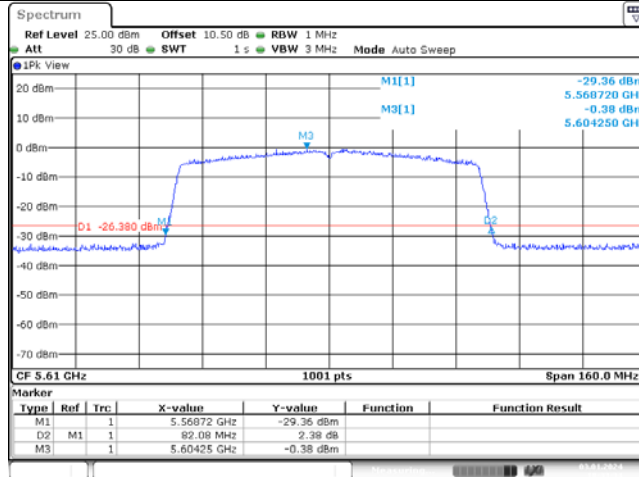
26dB Emission Bandwidth

802.11ac vht80
Lowest Channel



ProjectNo.:CR231272455-RF Tester:Lingling Li
Date: 3.JAN.2024 18:31:39

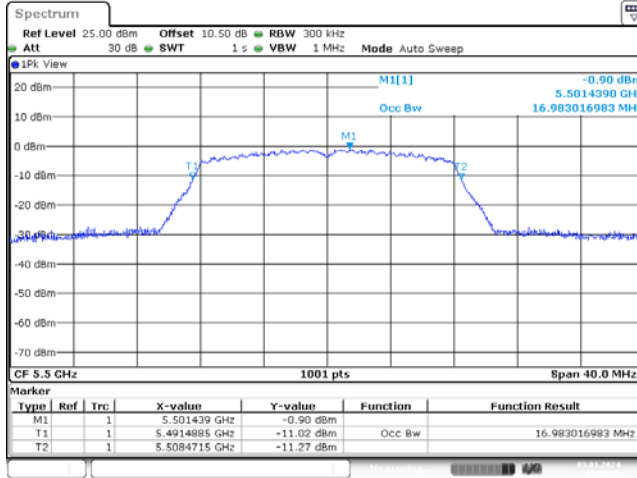
802.11ac vht80
Middle Channel



ProjectNo.:CR231272455-RF Tester:Lingling Li
Date: 3.JAN.2024 18:33:35

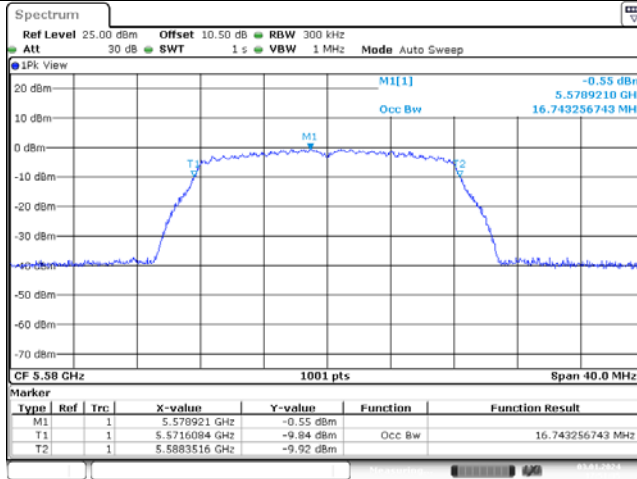
99% Emission Bandwidth

802.11a
Lowest Channel



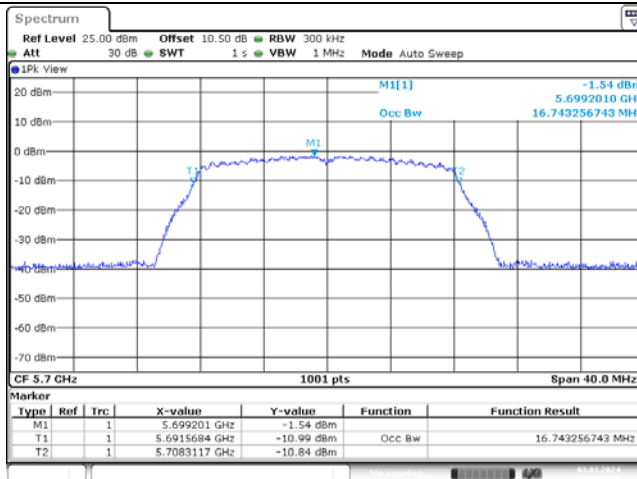
ProjectNo.:CR231272455-RF Tester:Lingling Li
Date: 3.JAN.2024 17:49:23

802.11a
Middle Channel



ProjectNo.:CR231272455-RF Tester:Lingling Li
Date: 3.JAN.2024 17:51:35

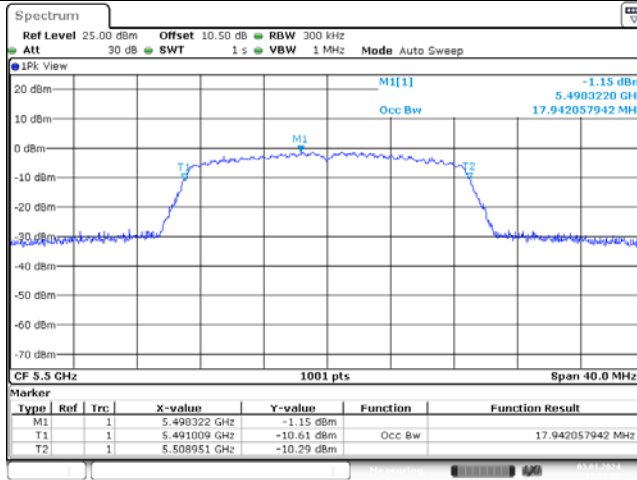
802.11a
Highest Channel



ProjectNo.:CR231272455-RF Tester:Lingling Li
Date: 3.JAN.2024 17:53:27

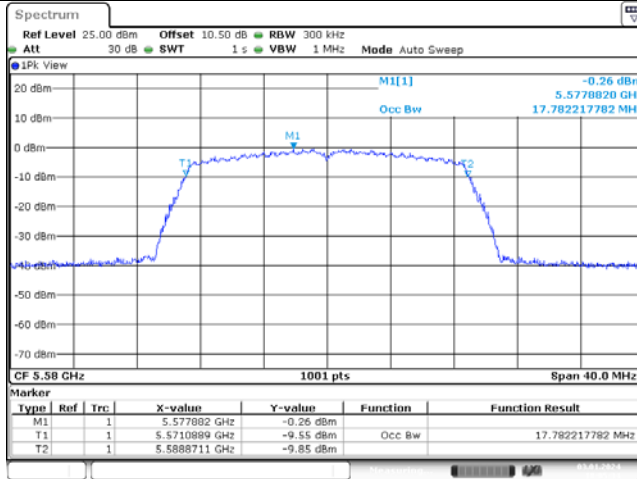
99% Emission Bandwidth

802.11n ht20
Lowest Channel



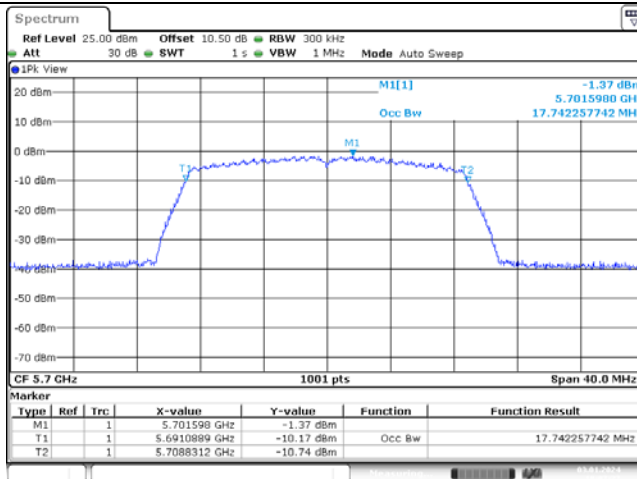
ProjectNo.:CR231272455-RF Tester:Lingling Li
Date: 3.JAN.2024 17:59:03

802.11n ht20
Middle Channel



ProjectNo.:CR231272455-RF Tester:Lingling Li
Date: 3.JAN.2024 18:05:34

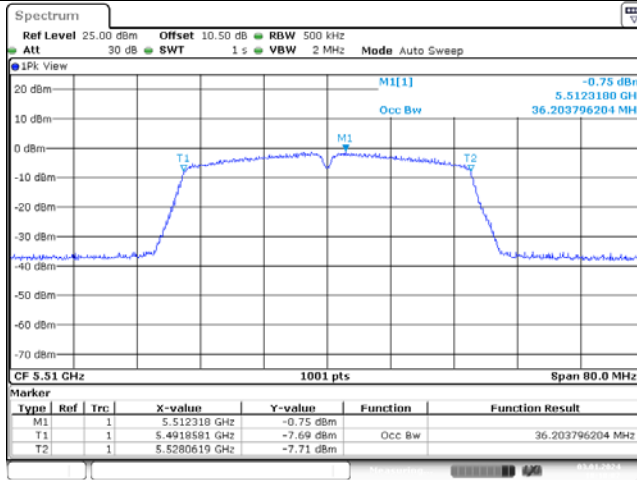
802.11n ht20
Highest Channel



ProjectNo.:CR231272455-RF Tester:Lingling Li
Date: 3.JAN.2024 18:07:27

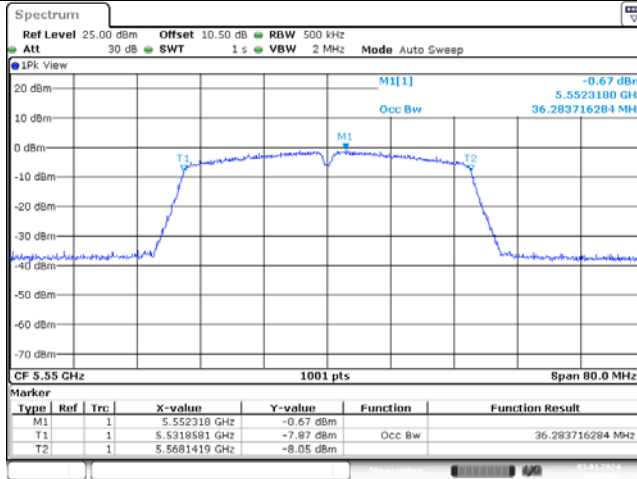
99% Emission Bandwidth

802.11n ht40
Lowest Channel



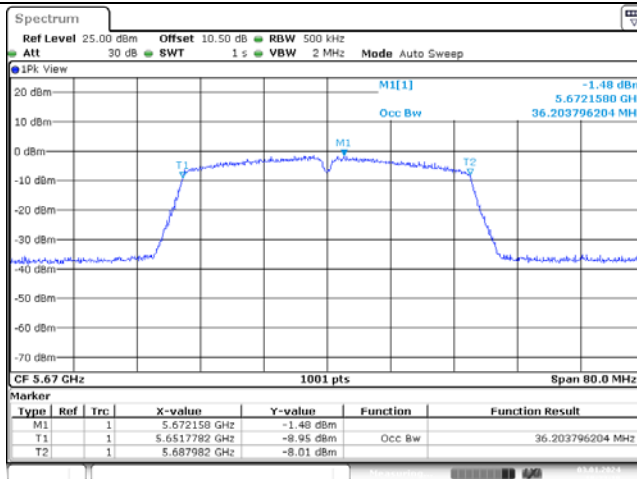
ProjectNo.:CR231272455-RF Tester:Lingling Li
Date: 3.JAN.2024 18:18:08

802.11n ht40
Lowest Channel



ProjectNo.:CR231272455-RF Tester:Lingling Li
Date: 3.JAN.2024 18:20:06

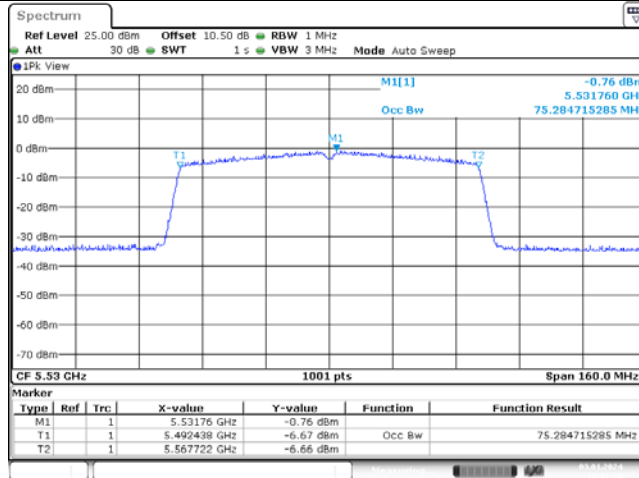
802.11n ht40
Middle Channel



ProjectNo.:CR231272455-RF Tester:Lingling Li
Date: 3.JAN.2024 18:23:18

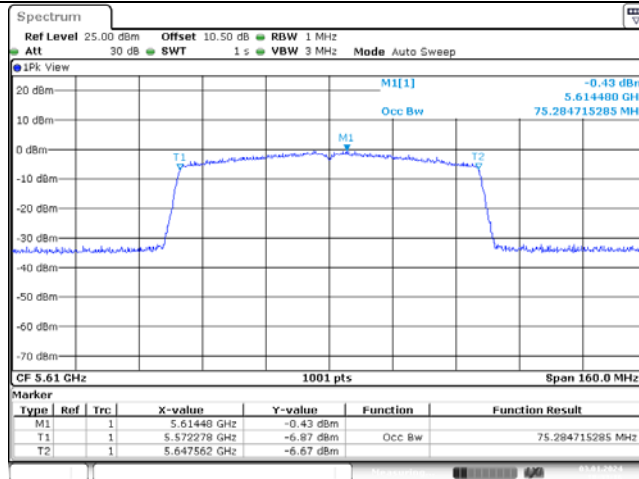
99% Emission Bandwidth

802.11ac vht80
Lowest Channel



ProjectNo.:CR231272455-RF Tester:Lingling Li
Date: 3.JAN.2024 18:31:21

802.11ac vht80
Middle Channel

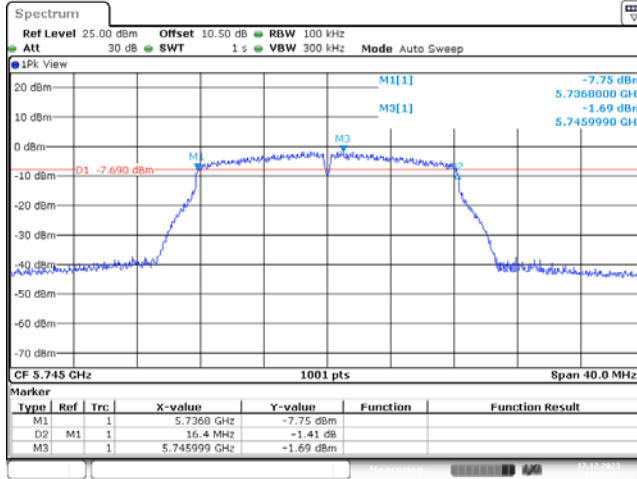


ProjectNo.:CR231272455-RF Tester:Lingling Li
Date: 3.JAN.2024 18:33:16

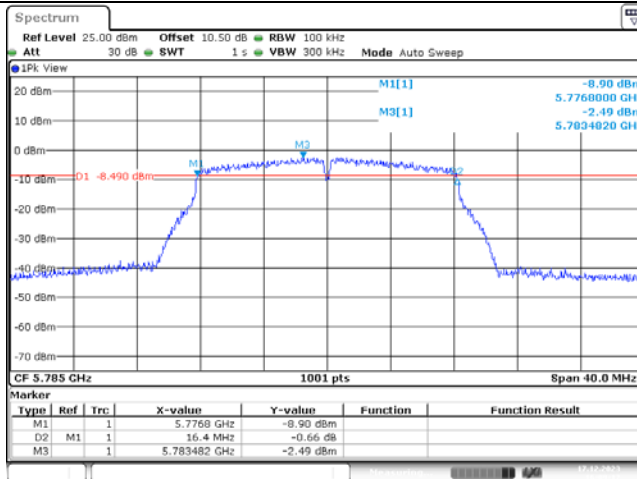
5725-5850MHz:

6dB Emission Bandwidth

802.11a
Lowest Channel



802.11a
Middle Channel



802.11a
Highest Channel

