

TEST REPORT

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Product Name: AC1200 Dual-Band Wi-Fi Range Extender

FCC ID: V7TA18P

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

Report Number: 2402Z107017E-RF-00A

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

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
1.0	2402Z107017E-RF-00A	Original Report	2025/1/9

1. GENERAL INFORMATION

1.1 Product Description for Equipment under Test (EUT)

EUT Name:	AC1200 Dual-Band Wi-Fi Range Extender
EUT Model:	A18 Pro
Multiple Model:	A18
Operation Frequency:	5150-5250MHz: 5180-5240 MHz(802.11a/n ht20/ac vht20) 5190-5230 MHz(802.11n ht40/ac vht40) 5210 MHz(802.11ac vht80) 5725-5850MHz: 5745-5825 MHz (802.11a/n ht20/ac vht20) 5755-5795 MHz(802.11n ht40/ac vht40) 5775 MHz(802.11ac vht80)
Maximum Average Conducted Output Power:	5150-5250MHz: 24.95dBm 5725-5850MHz: 23.06dBm
Modulation Type:	802.11a/n/ac: OFDM-BPSK, QPSK, 16QAM, 64QAM,256QAM
Rated Input Voltage:	100-240Vac
Serial Number:	For RF Conducted test 2V5L-2(Model: A18 Pro) For AC Line Conducted Emissions and Radiated Spurious Emissions Above 1G test: 2V5L-1(Model: A18 Pro) For Radiated Spurious Emissions Below 1G test: 2V5L-1(Model: A18 Pro) 2V5L-3(Model: A18)
EUT Received Date:	2024/11/28
EUT Received Status:	Good
Note: The difference between Model A18 Pro and Multiple model A18 is: The AN8801RN is a Gigabit chip, the A18 Pro supports gigabit RJ45 port, and the A18 without the AN8801RF chip only supports 100Mbit RJ45 port. Please refer to the declaration letter for more detail, which was provided by manufacturer.	

1.2 Accessory Information

Accessory Description	Manufacturer	Model	Parameters
/	/	/	/

1.3 Antenna Information Detail ▲

Antenna	Antenna Manufacturer	Antenna Type	input impedance (Ohm)	Frequency Range	Antenna Gain
Chain 0	SHENZHEN TENDA TECHNOLOGY CO.,LTD.	PCB	50	5.15~5.25GHz	4.77 dBi
				5.725~5.85GHz	4.77 dBi
Chain 1		PCB	50	5.15~5.25GHz	4.93 dBi
				5.725~5.85GHz	4.93 dBi

Note:

The system supports 2T2R Beamforming and Non-Beamforming(CDD) modes at 802.11n/ac modes.
Per KDB 662911 D01 Multiple Transmitter Output v02r01:

For power measurements:

CDD Mode:

Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$

directional gain=4.93 dBi for 5150-5250MHz

directional gain=4.93 dBi for 5725-5850MHz

Beamforming Mode:

Array Gain = $10 \log(N_{ANT}/N_{SS})$ dB.

directional gain=4.93dBi+3dB=7.93dBi for 5150-5250MHz

directional gain=4.93dBi+3dB=7.93dBi for 5725-5850MHz

For power spectral density (PSD) measurements:

Array Gain = $10 \log(N_{ANT}/N_{SS})$ dB.

directional gain=4.93dBi+3dB=7.93dBi for 5150-5250MHz

directional gain=4.93dBi+3dB=7.93dBi for 5725-5850MHz

The design of compliance with §15.203:

- ☒ Unit uses a permanently attached antenna.
- ☐ Unit uses a unique coupling to the intentional radiator.
- ☐ Unit was professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

1.4 Equipment Modifications

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

2. SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
FCC §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) (e)	99% Occupied Bandwidth	Compliant
FCC§15.407 (a)	Maximum Conducted Output Power	Compliant
FCC§15.407 (a)	Power Spectral Density	Compliant
§15.203	Antenna Requirement	Compliant
Note 1: For AC line conducted emissions, the maximum output power mode and channel was tested. Note 2: For Radiated Spurious Emissions 9kHz~ 1GHz and 18-40GHz, the maximum output power mode and channel was tested.		

3. DESCRIPTION OF TEST CONFIGURATION

3.1 Operation Frequency Detail

For 802.11a/n ht20/ac vht20:

5150-5250MHz Band		5725-5850MHz Band	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	149	5745
40	5200	153	5765
44	5220	157	5785
48	5240	161	5805
/	/	165	5825

For 802.11n ht40/ac vht40:

5150-5250MHz Band		5725-5850MHz Band	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
38	5190	151	5755
46	5230	159	5795

For 802.11ac vht80:

5150-5250MHz Band		5725-5850MHz Band	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
42	5210	155	5775

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

3.2 EUT Operation Condition

The system was configured for testing in Engineering Mode, which was provided by the manufacturer.

EUT Exercise Software:		MP_Test			
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	
				Chain 0	Chain 1
802.11a	Lowest	5180	6Mbps	110	127
	Middle	5200	6Mbps	110	127
	Highest	5240	6Mbps	110	127
802.11n ht20	Lowest	5180	MCS8	120	120
	Middle	5200	MCS8	120	120
	Highest	5240	MCS8	120	120
802.11n ht40	Lowest	5190	MCS8	107	107
	Highest	5230	MCS8	107	107
802.11ac vht20	Lowest	5180	MCS8	70	70
	Middle	5200	MCS8	70	70
	Highest	5240	MCS8	70	70
802.11ac vht40	Lowest	5190	MCS8	80	80
	Highest	5230	MCS8	80	80
802.11ac vht80	Middle	5210	MCS8	100	100
5725-5850 MHz Band:					
Test Modes	Test Channels	Test Frequency (MHz)	Data rate	Power Level Setting	
				Chain 0	Chain 1
802.11a	Lowest	5745	6Mbps	120	102
	Middle	5785	6Mbps	120	102
	Highest	5825	6Mbps	120	102
802.11n ht20	Lowest	5745	MCS8	102	102
	Middle	5785	MCS8	102	102
	Highest	5825	MCS8	102	102
802.11n ht40	Lowest	5755	MCS8	102	102
	Highest	5795	MCS8	102	102
802.11ac vht20	Lowest	5745	MCS8	72	72
	Middle	5785	MCS8	72	72
	Highest	5825	MCS8	72	72
802.11ac vht40	Lowest	5755	MCS8	80	80
	Highest	5795	MCS8	80	80
802.11ac vht80	Middle	5775	MCS8	105	105
Note:					
1. The above are the worst-case data rates, which are determined for each mode based upon investigations by measuring the average power and PSD across all data rates, bandwidths, and modulations.					
2. The device supports SISO in all modes, and MIMO 2T2R in 802.11n/ac modes, per pretest, 2T2R mode was the worst mode and reported for 802.11n/ac modes.					
3. The system supports Beamforming and Non-beamforming modes at 802.11n/ac modes. The two modes have same output power, which are declared by manufacturer. Therefore, the all RF conducted and Radiated Spurious Emissions test were performed at Beamforming mode.					

3.3 Support Equipment List and Details

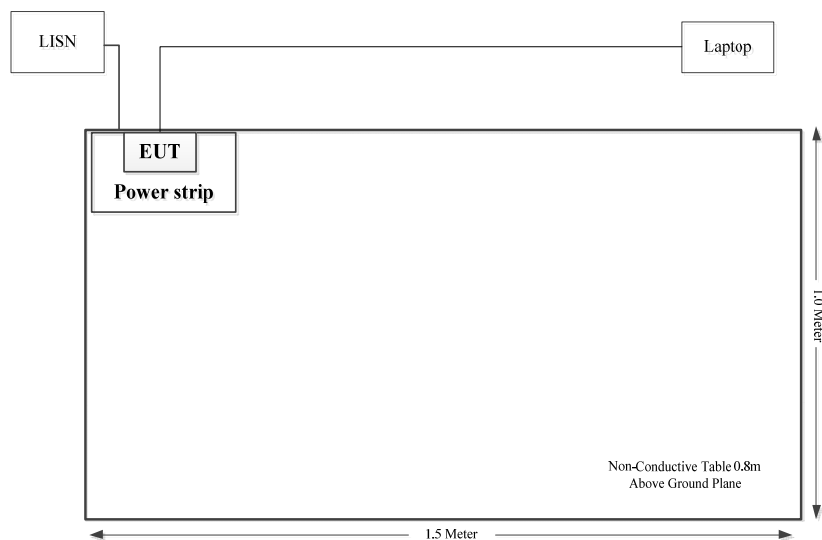
Manufacturer	Description	Model	Serial Number
Lenovo	Laptop	E450	PF-OMR8KV
unknown	Power strip	CUG03	732766932286

3.4 Support Cable List and Details

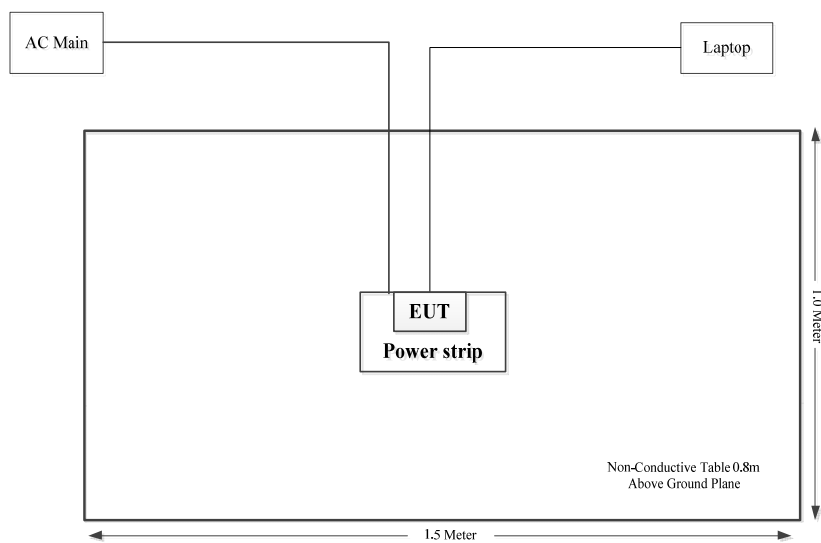
Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	To
RJ45 Cable	no	no	5	EUT	Laptop

3.5 Block Diagram of Test Setup

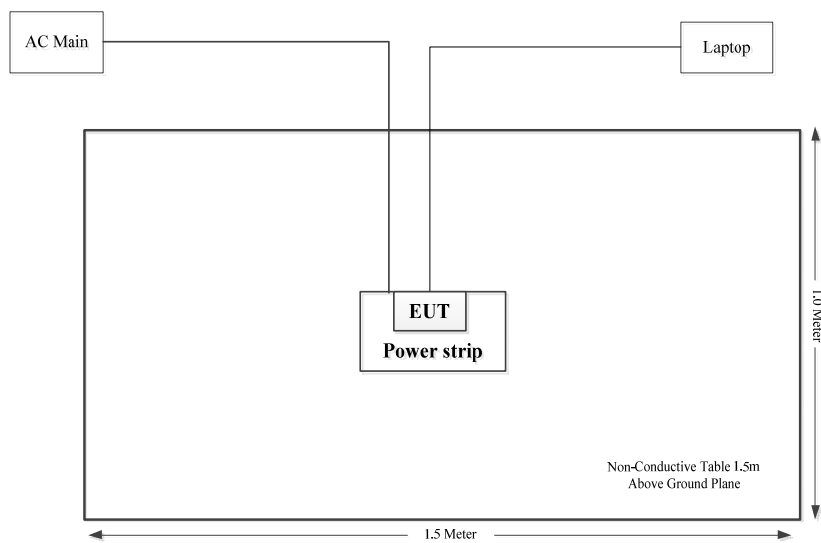
AC line conducted emissions:



Spurious Emissions:
Below 1GHz:



Above 1GHz:



3.6 Test Facility

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

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 829273, the FCC Designation No. : CN5044.

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

3.7 Measurement Uncertainty

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

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

4. REQUIREMENTS AND TEST PROCEDURES

4.1 AC Line Conducted Emissions

4.1.1 Applicable Standard

FCC§15.207(a).

(a) Except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

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

*Decreases with the logarithm of the frequency.

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

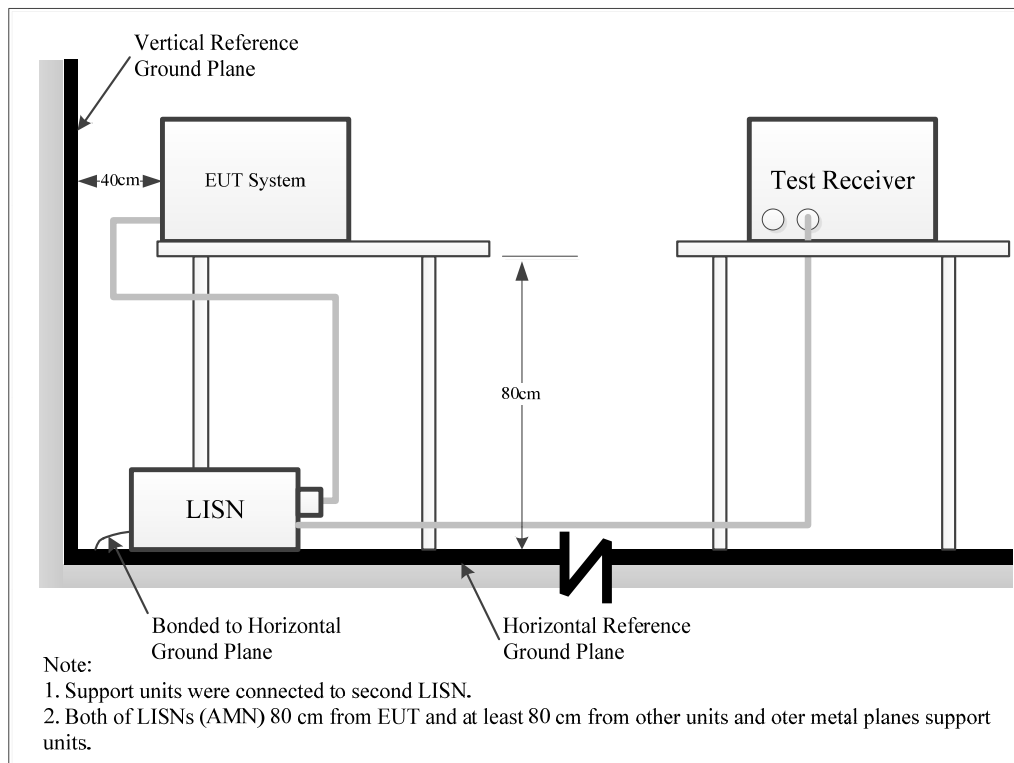
(1) For carrier current system containing their fundamental emission within the frequency band 535-1705 kHz and intended to be received using a standard AM broadcast receiver: no limit on conducted emissions.

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

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

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

4.1.2 EUT Setup



The setup of EUT is according with per ANSI C63.10-2013 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.

4.1.3 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

4.1.4 Test Procedure

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

4.1.5 Corrected Amplitude & Margin Calculation

The basic equation is as follows:

Result = Reading + Factor

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

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

Margin = Limit – Result

4.1.6 Test Result

Please refer to section 5.1.

4.2 Radiation Spurious Emissions

4.2.1 Applicable Standard

FCC §15.407 (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.

(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.

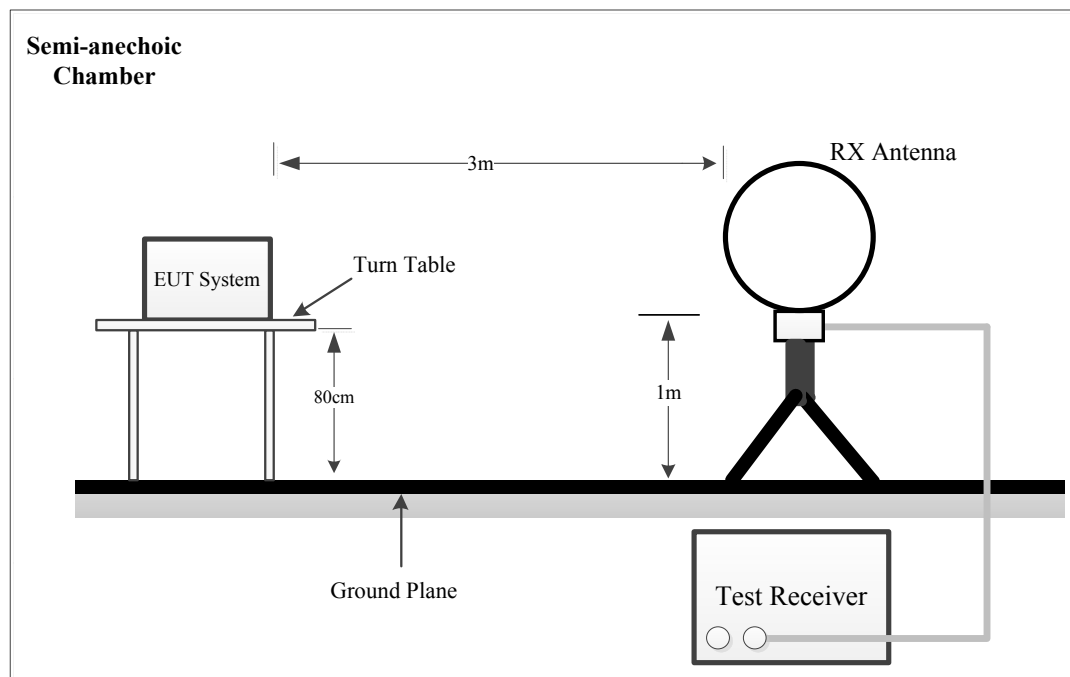
(10) The provisions of § 15.205 apply to intentional radiators operating under this section.

(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.

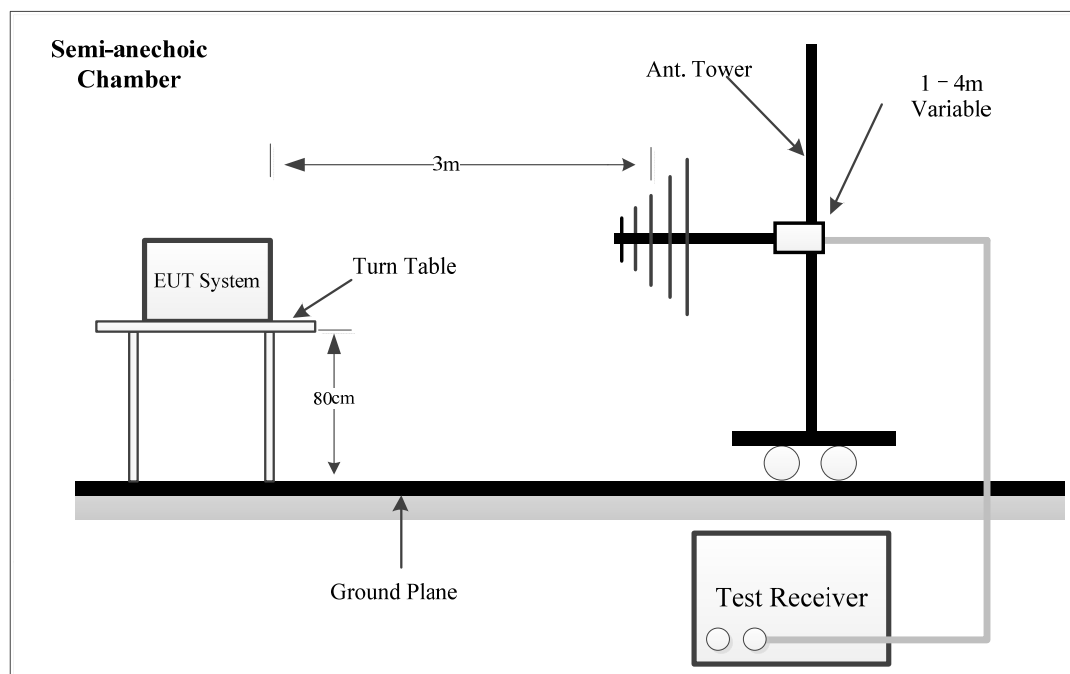
(c) The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signalling information or the use of repetitive codes used by certain digital technologies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

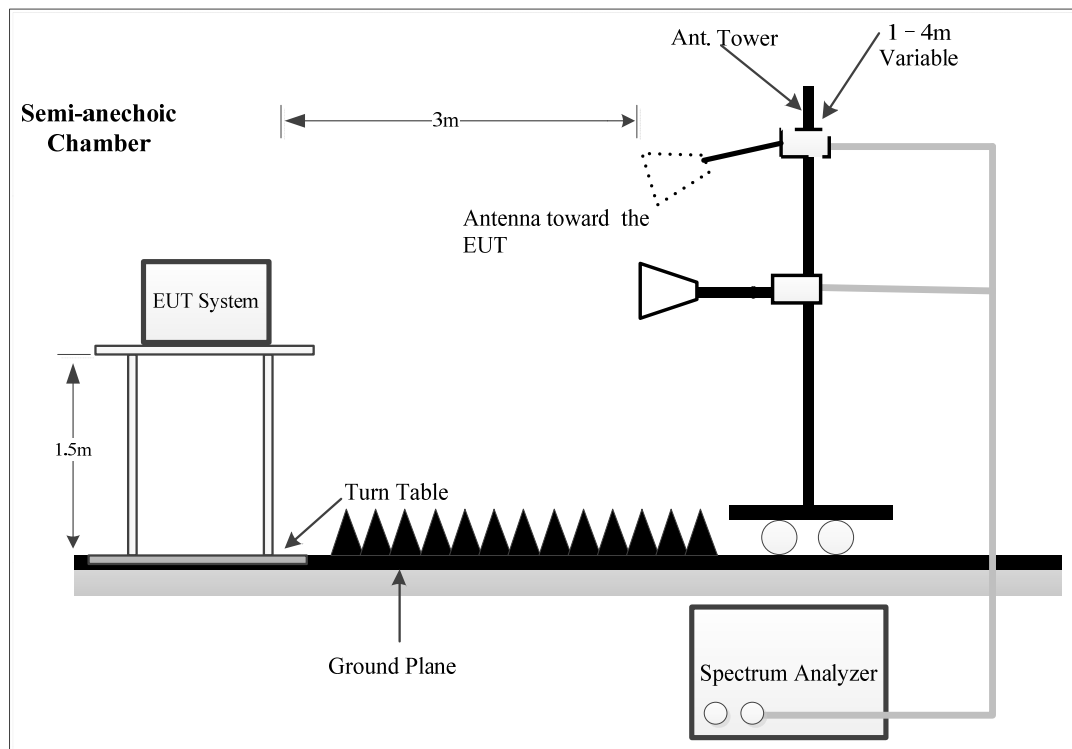
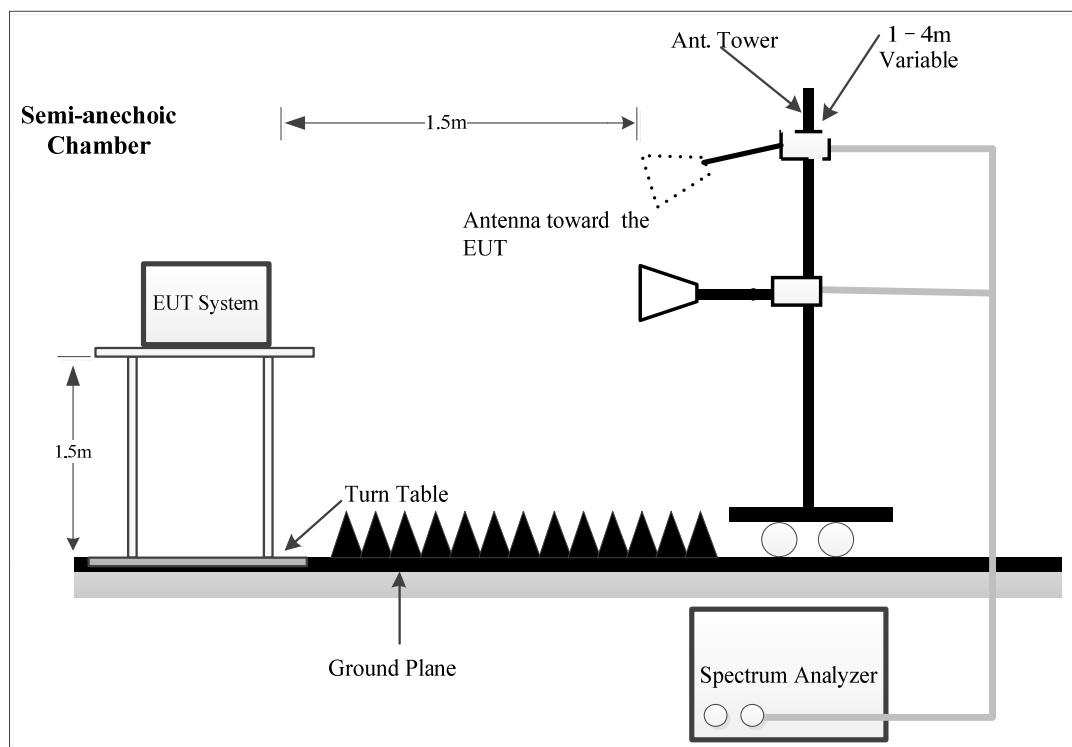
4.2.2 EUT Setup

9kHz~30MHz:



30MHz~1GHz:



1-26.5GHz:**26.5-40GHz:**

The radiated emission tests were performed in the semi-anechoic chamber, using the setup accordance with the ANSI C63.10-2013. The specification used was FCC 15.209, FCC 15.407 limits.

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

The spacing between the peripherals was 10 cm.

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

4.2.3 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:

9kHz-1000MHz:

Frequency Range	Measurement	RBW	Video B/W	IF B/W	Detector
9 kHz – 150 kHz	QP/AV	300Hz	1 kHz	200 Hz	QP/AV
150 kHz – 30 MHz	QP/AV	10 kHz	30 kHz	9 kHz	QP/AV
30MHz – 1000 MHz	PK	100 kHz	300 kHz	/	PK
	QP	/	/	120kHz	QP

1GHz- 40GHz:

Pre-scan:

Measurement	Detector	Duty cycle	RBW	Video B/W
PK	Peak	Any	1MHz	3 MHz
Ave.	Peak	>98%	1MHz	5kHz
		<98%	1MHz	≥1/T, not less than 5kHz

Final measurement for emission identified during the pre-scan:

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

Note: T is minimum transmission duration

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

If the maximized peak measured value is under the average limit, then it is unnecessary to perform an average measurement.

4.2.4 Test Procedure

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

According to 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.

For Radiated 26.5-40GHz test, which was performed at 1.5 m distance, according to C63.10, the test result shall be extrapolated to the specified distance using an extrapolation Factor of 20dB/decade from 3m to 1.5m

Distance extrapolation Factor = $20 \log (\text{specific distance [3m]}/\text{test distance [1.5m]})$ dB = 6.0 dB

4.2.5 Corrected Result & Margin Calculation

The basic equation except 26.5-40GHz test is as follows:

Factor = Antenna Factor + Cable Loss - Amplifier Gain

For Radiated 26.5-40GHz test:

Factor = Antenna Factor + Cable Loss - Distance extrapolation Factor

Result = Reading + Factor

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

Margin = Limit – Result

4.2.6 Test Result

Please refer to section 5.2.

4.3 Emission Bandwidth

4.3.1 Applicable Standard

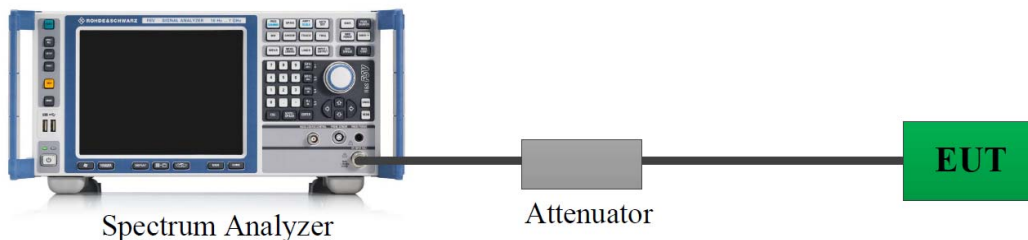
FCC §15.407 (a),(h)

(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(a),(e)

(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.

4.3.2 EUT Setup



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

4.3.3 Test Procedure

26dB Emission Bandwidth:

According to ANSI C63.10-2013 Section 12.4.1

- Set RBW = approximately 1% of the emission bandwidth.
- Set the VBW > RBW.
- Detector = peak.
- Trace mode = max hold
- 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

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

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).

4.3.4 Test Result

Please refer to section 5.3 and section 5.4.

4.4 Maximum Conducted Output Power

4.4.1 Applicable Standard

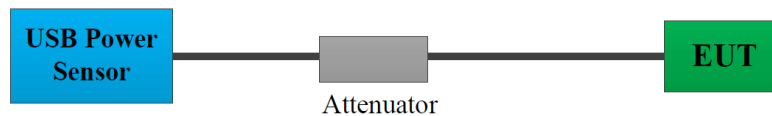
FCC §15.407(a) (1)(ii)

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

FCC §15.407(a) (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.

4.4.2 EUT Setup



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

4.4.3 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.

4.4.4 Test Result

Please refer to section 5.5.

4.5 Maximum Power Spectral Density

4.5.1 Applicable Standard

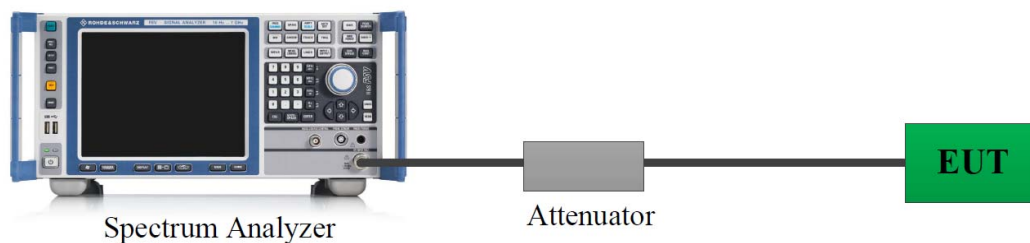
FCC §15.407(a) (1)(ii)

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

FCC §15.407(a) (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.

4.5.2 EUT Setup



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

4.5.3 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 $\pm 2\%$

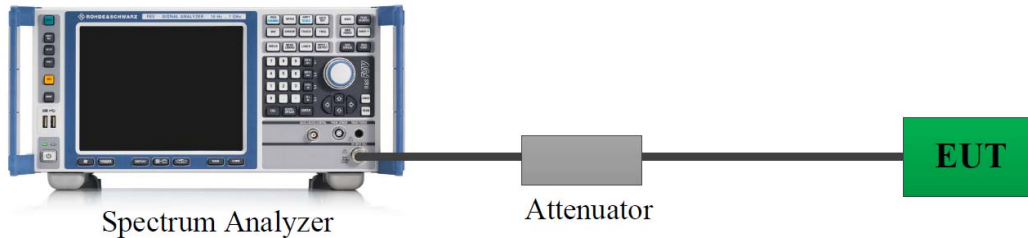
KDB 789033 D02 General UNII Test Procedures New Rules v02r01 Method SA-3 should be applied.

4.5.4 Test Result

Please refer to section 5.6.

4.6 Duty Cycle

4.6.1 EUT Setup



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

4.6.2 Test Procedure

According to ANSI C63.10-2013 Section 12.2

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

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

4.6.3 Judgment

Report Only. Please refer to section 5.7.

4.7 Antenna Requirement

4.7.1 Applicable Standard

FCC §15.203

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

4.7.2 Judgment

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

5. Test DATA AND RESULTS

5.1 AC Line Conducted Emissions

Serial Number:	2V5L-1	Test Date:	2024/11/30
Test Site:	CE	Test Mode:	Transmitting
Tester:	Yolo Fan	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	25.6	Relative Humidity: (%)	25	ATM Pressure: (kPa)	102.0
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	LISN	ENV216	101614	2024/9/5	2025/9/4
MICRO-COAX	Coaxial Cable	C-NJNJ-50	C-0200-01	2024/9/5	2025/9/4
R&S	EMI Test Receiver	ESCI	100035	2024/8/26	2025/8/25
Audix	Test Software	E3	191218 V9	N/A	N/A

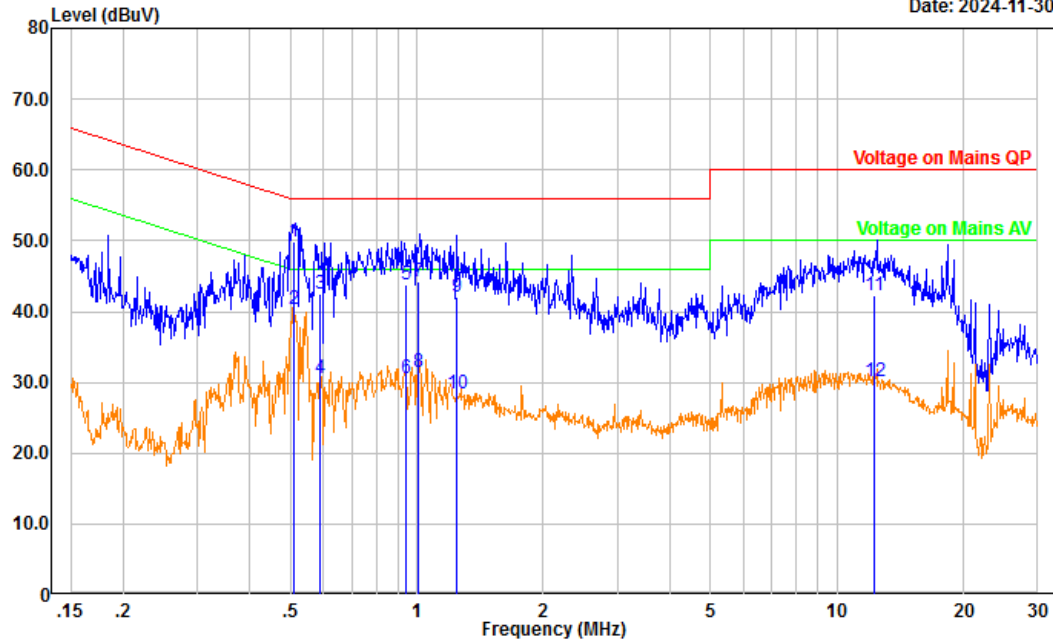
** Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

Note: The maximum output power mode and channel: 802.11n20 5240MHz was tested.

Project No.: 2402Z107017E-RF
Port: Line
Test Mode: Transmitting
IF B/W 9kHz PK/AV

Serial No.: 2V5L-1
Tester: Yolo Fan

Date: 2024-11-30

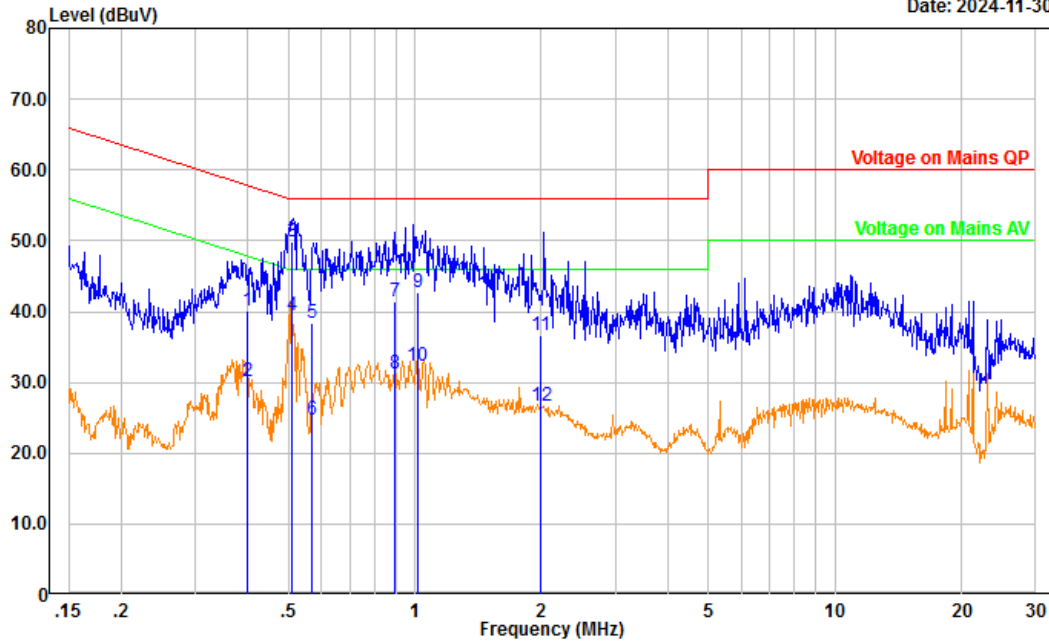


No.	Frequency (MHz)	Reading (dBUV)	Factor (dB)	Result (dBUV)	Limit (dBUV)	Margin (dB)	Detector
1	0.511	39.12	10.84	49.96	56.00	6.04	QP
2	0.511	29.49	10.84	40.33	46.00	5.67	Average
3	0.586	31.64	10.82	42.46	56.00	13.54	QP
4	0.586	19.69	10.82	30.51	46.00	15.49	Average
5	0.941	32.92	10.86	43.78	56.00	12.22	QP
6	0.941	19.66	10.86	30.52	46.00	15.48	Average
7	1.009	33.32	10.85	44.17	56.00	11.83	QP
8	1.009	20.52	10.85	31.37	46.00	14.63	Average
9	1.243	31.15	10.84	41.99	56.00	14.01	QP
10	1.243	17.54	10.84	28.38	46.00	17.62	Average
11	12.249	31.42	10.79	42.21	60.00	17.79	QP
12	12.249	19.44	10.79	30.23	50.00	19.77	Average

Project No.: 2402Z107017E-RF
Port: neutral
Test Mode: Transmitting
IF B/W 9kHz PK/AV

Serial No.: 2V5L-1
Tester: Yolo Fan

Date: 2024-11-30



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.398	29.34	10.77	40.11	57.89	17.78	QP
2	0.398	19.42	10.77	30.19	47.89	17.70	Average
3	0.508	39.06	10.74	49.80	56.00	6.20	QP
4	0.508	28.79	10.74	39.53	46.00	6.47	Average
5	0.567	27.61	10.73	38.34	56.00	17.66	QP
6	0.567	14.09	10.73	24.82	46.00	21.18	Average
7	0.895	30.61	10.82	41.43	56.00	14.57	QP
8	0.895	20.39	10.82	31.21	46.00	14.79	Average
9	1.012	31.84	10.85	42.69	56.00	13.31	QP
10	1.012	21.37	10.85	32.22	46.00	13.78	Average
11	1.991	25.78	10.92	36.70	56.00	19.30	QP
12	1.991	15.66	10.92	26.58	46.00	19.42	Average

5.2 Radiation Spurious Emissions

1) 9kHz - 1GHz

Serial Number:	2V5L-1, 2V5L-3	Test Date:	2024/12/13~2025/1/7
Test Site:	Chamber A	Test Mode:	Transmitting
Tester:	Alan Xie	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	21.5~22.2	Relative Humidity: (%)	33~40	ATM Pressure: (kPa)	101.3~102.2
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
EMCO	Passive Loop Antenna	6512	9706-1206	2023/10/25	2026/10/24
Sunol Sciences	Hybrid Antenna	JB3	A060611-2	2024/4/16	2027/4/15
Narda	Coaxial Attenuator	757C-6dB	34010	2024/4/16	2027/4/15
Unknown	Coaxial Cable	C-NJNJ-50	C-0075-01	2024/7/1	2025/6/30
Unknown	Coaxial Cable	C-NJNJ-50	C-0400-01	2024/7/1	2025/6/30
Unknown	Coaxial Cable	C-NJNJ-50	C-1400-01	2024/7/1	2025/6/30
Sonoma	Amplifier	310N	372193	2024/8/16	2025/8/15
R&S	EMI Test Receiver	ESR3	102453	2024/8/26	2025/8/25
Audix	Test Software	E3	191218 V9	N/A	N/A

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

Test Data:

Please refer to the below table and plots.

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

Note: The maximum output power mode and channel: 802.11n20 5240MHz was tested.

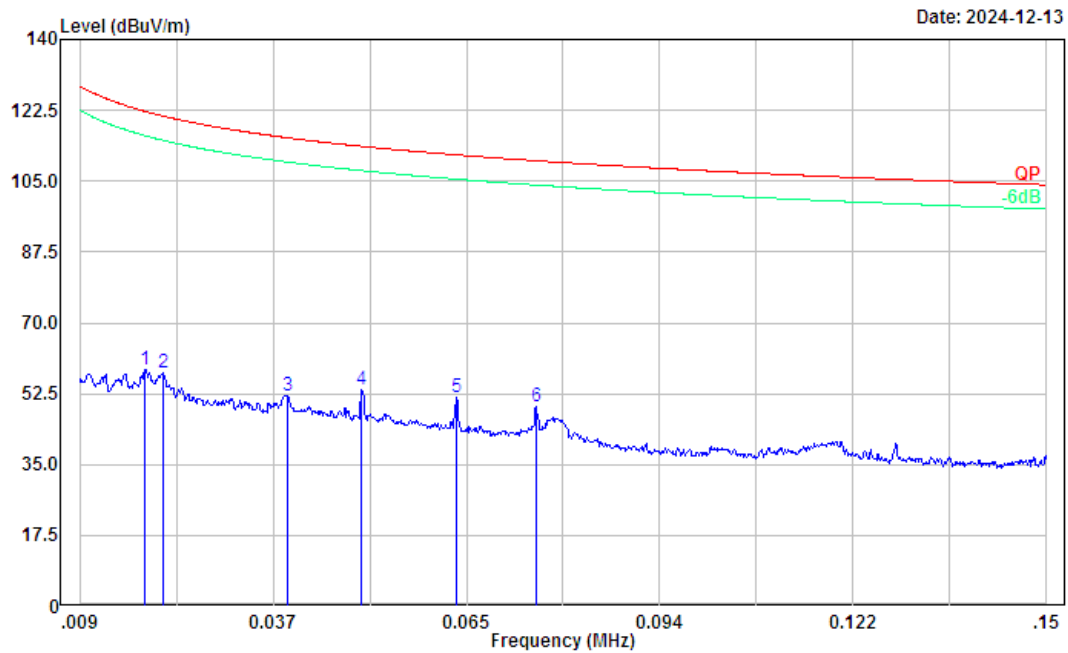
9kHz~30MHz

Three antenna orientations (parallel, perpendicular, and ground-parallel) was measured, the worst orientations was below:

Model: A18 Pro

Project No.: 2402Z107017E-RF
Polarization: Parallel
Test Mode: Transmitting
: RBW:300Hz VBW:1kHz

Serial No.: 2V5L-1
Tester: Alan Xie

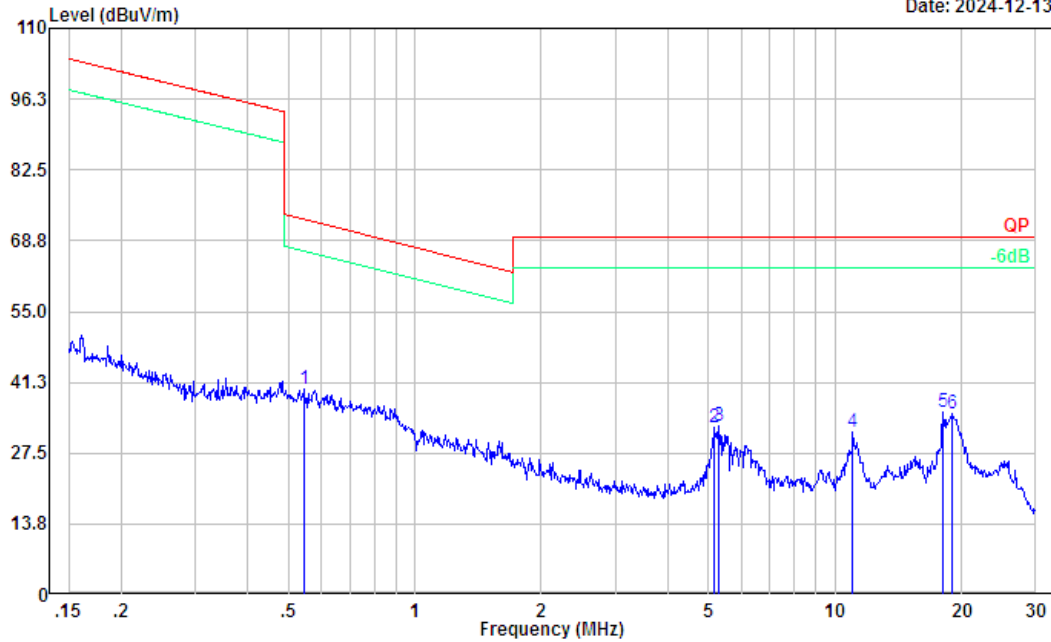


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	0.019	9.15	49.36	58.51	122.22	63.71	Peak
2	0.021	8.92	48.75	57.67	121.11	63.44	Peak
3	0.039	7.07	45.06	52.13	115.71	63.58	Peak
4	0.050	9.98	43.41	53.39	113.60	60.21	Peak
5	0.064	10.30	41.15	51.45	111.48	60.03	Peak
6	0.076	10.22	39.17	49.39	110.04	60.65	Peak

Project No.: 2402Z107017E-RF
Polarization: Parallel
Test Mode: Transmitting
: RBW:10kHz VBW:30kHz

Serial No.: 2V5L-1
Tester: Alan Xie

Date: 2024-12-13

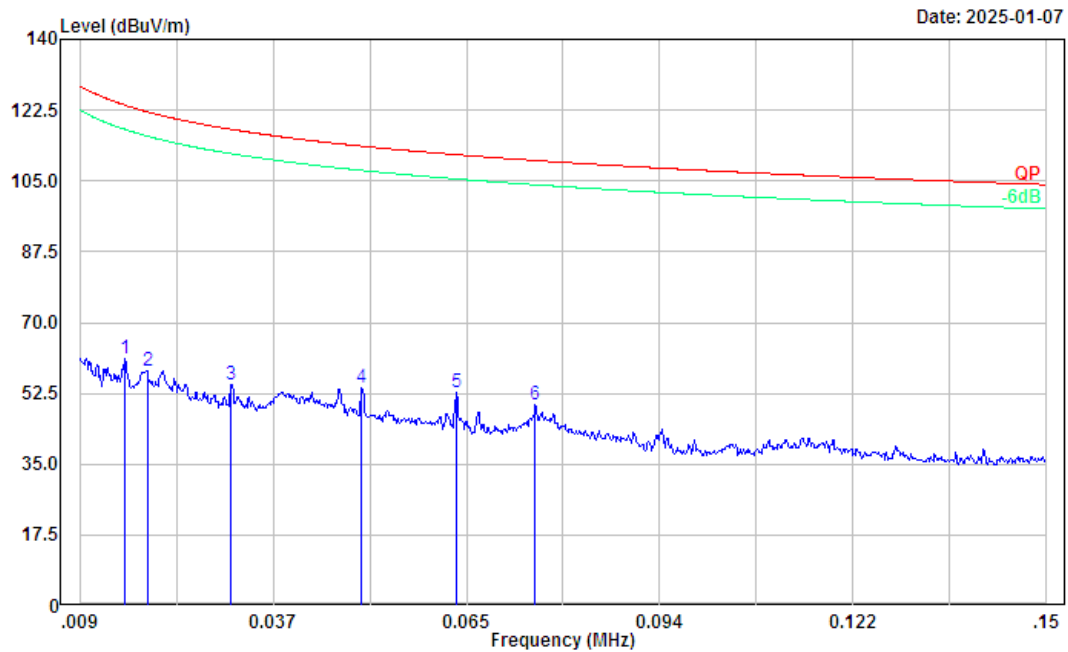


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	0.544	17.77	22.30	40.07	72.88	32.81	Peak
2	5.166	26.92	5.59	32.51	69.54	37.03	Peak
3	5.277	27.14	5.51	32.65	69.54	36.89	Peak
4	11.021	27.70	3.82	31.52	69.54	38.02	Peak
5	18.039	31.84	3.78	35.62	69.54	33.92	Peak
6	18.920	31.83	3.42	35.25	69.54	34.29	Peak

Model: A18

Project No.: 2402Z107017E-RF
Polarization: Parallel
Test Mode: Transmitting
: RBW:300Hz VBW:1kHz

Serial No.: 2V5L-3
Tester: Alan Xie

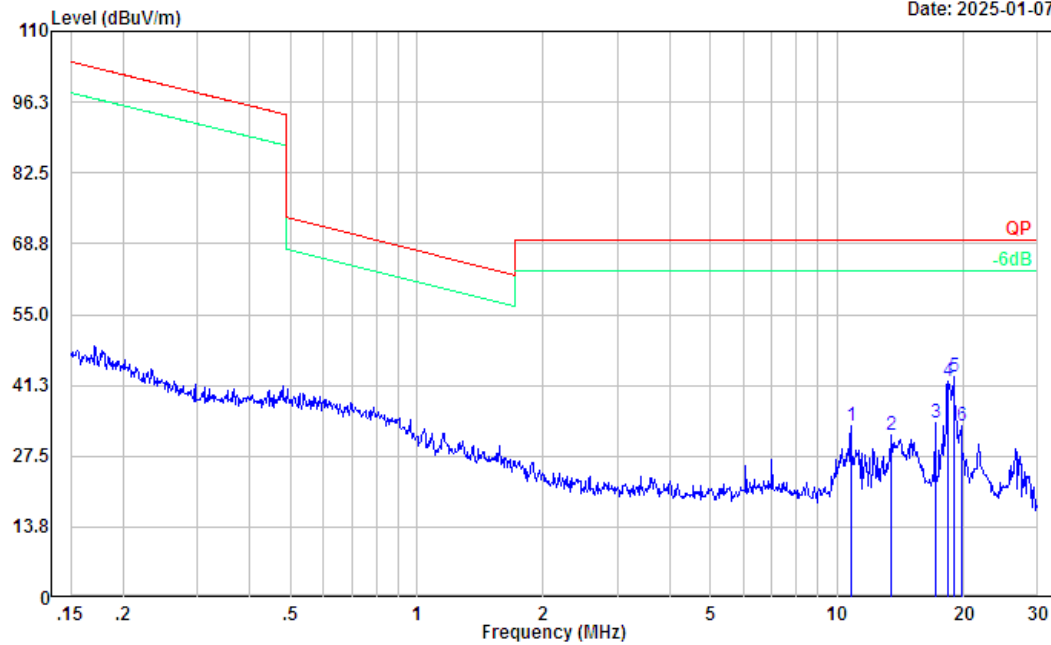


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	0.016	11.07	50.12	61.19	123.73	62.54	Peak
2	0.019	8.93	49.29	58.22	122.09	63.87	Peak
3	0.031	8.28	46.54	54.82	117.74	62.92	Peak
4	0.050	10.30	43.41	53.71	113.60	59.89	Peak
5	0.064	11.61	41.15	52.76	111.48	58.72	Peak
6	0.075	10.33	39.19	49.52	110.06	60.54	Peak

Project No.: 2402Z107017E-RF
Polarization: Parallel
Test Mode: Transmitting
: RBW:10kHz VBW:30kHz

Serial No.: 2V5L-3
Tester: Alan Xie

Date: 2025-01-07



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	10.790	29.44	3.89	33.33	69.54	36.21	Peak
2	13.479	27.73	3.94	31.67	69.54	37.87	Peak
3	17.109	30.35	3.77	34.12	69.54	35.42	Peak
4	18.328	38.26	3.66	41.92	69.54	27.62	Peak
5	18.920	39.55	3.42	42.97	69.54	26.57	Peak
6	19.740	30.05	3.41	33.46	69.54	36.08	Peak

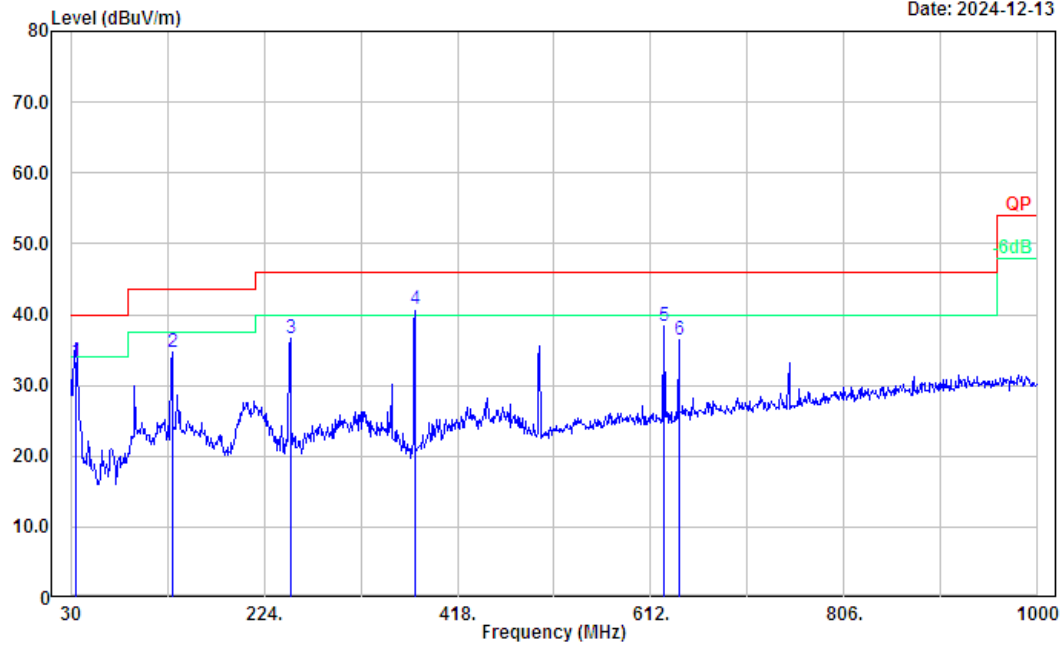
30MHz-1GHz

Model: A18 Pro

Project No.: 2402Z107017E-RF
Polarization: Horizontal
Test Mode: Transmitting
: RBW:100kHz VBW:300kHz

Serial No.: 2V5L-1
Tester: Alan Xie

Date: 2024-12-13

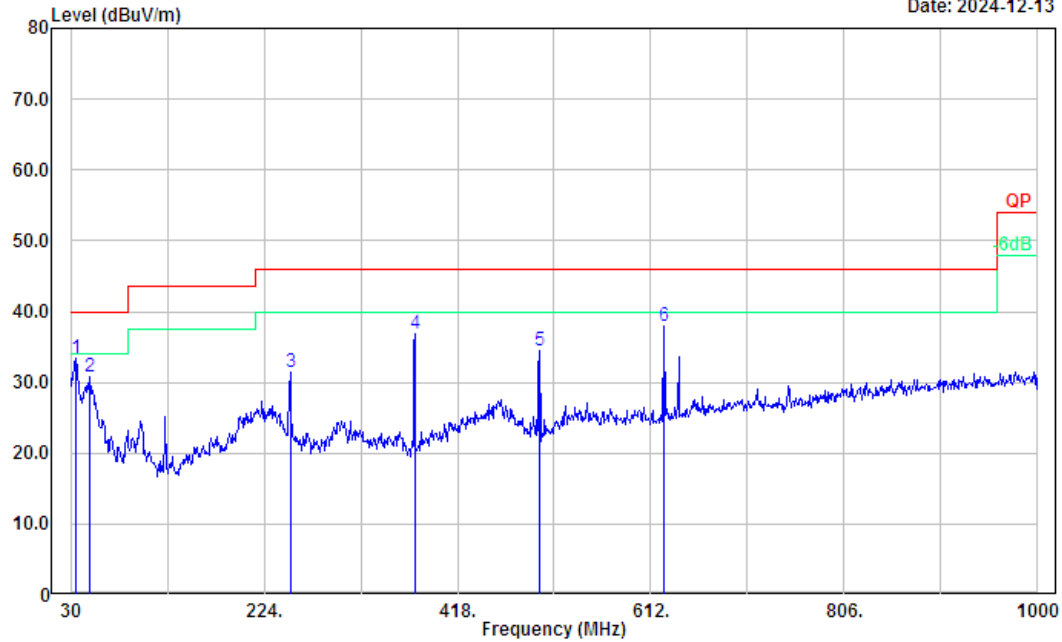


No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Result (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector
1	34.85	40.40	-7.00	33.40	40.00	6.60	QP
2	131.85	44.81	-10.13	34.68	43.50	8.82	Peak
3	250.19	47.94	-11.27	36.67	46.00	9.33	Peak
4	375.32	48.10	-7.36	40.74	46.00	5.26	QP
5	625.58	40.21	-1.87	38.34	46.00	7.66	Peak
6	640.13	37.81	-1.48	36.33	46.00	9.67	Peak

Project No.: 2402Z107017E-RF
Polarization: Vertical
Test Mode: Transmitting
: RBW:100kHz VBW:300kHz

Serial No.: 2V5L-1
Tester: Alan Xie

Date: 2024-12-13

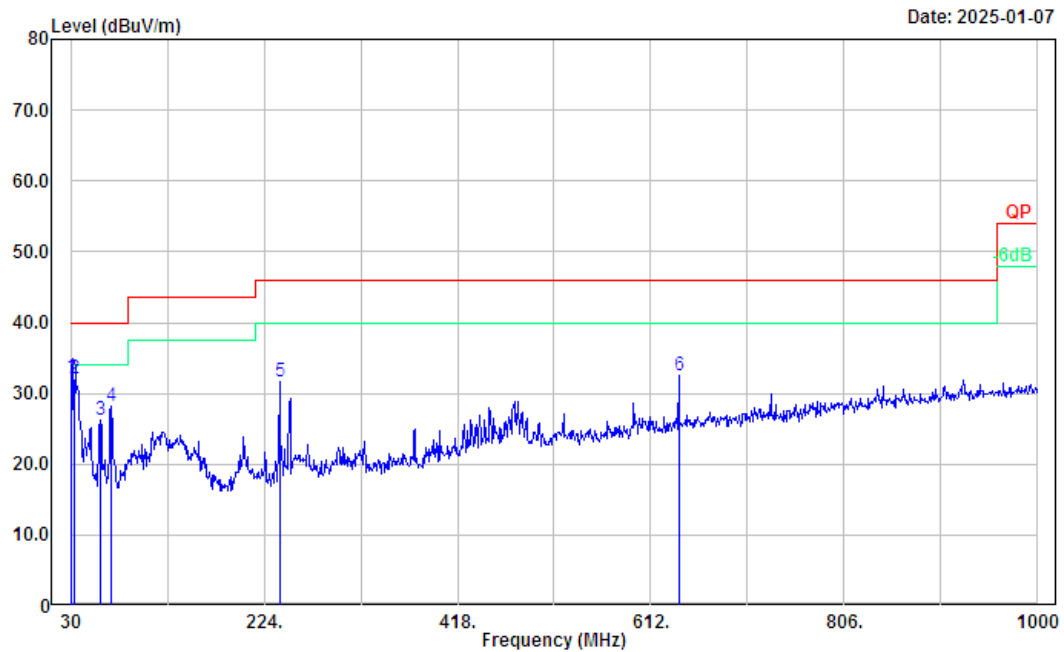


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	34.85	40.48	-7.00	33.48	40.00	6.52	Peak
2	48.43	46.16	-15.47	30.69	40.00	9.31	Peak
3	250.19	42.71	-11.27	31.44	46.00	14.56	Peak
4	375.32	44.23	-7.36	36.87	46.00	9.13	Peak
5	500.45	38.70	-4.31	34.39	46.00	11.61	Peak
6	625.58	39.77	-1.87	37.90	46.00	8.10	Peak

Model: A18

Project No.: 2402Z107017E-RF
Polarization: Horizontal
Test Mode: Transmitting
: RBW:100kHz VBW:300kHz

Serial No.: 2V5L-3
Tester: Alan Xie

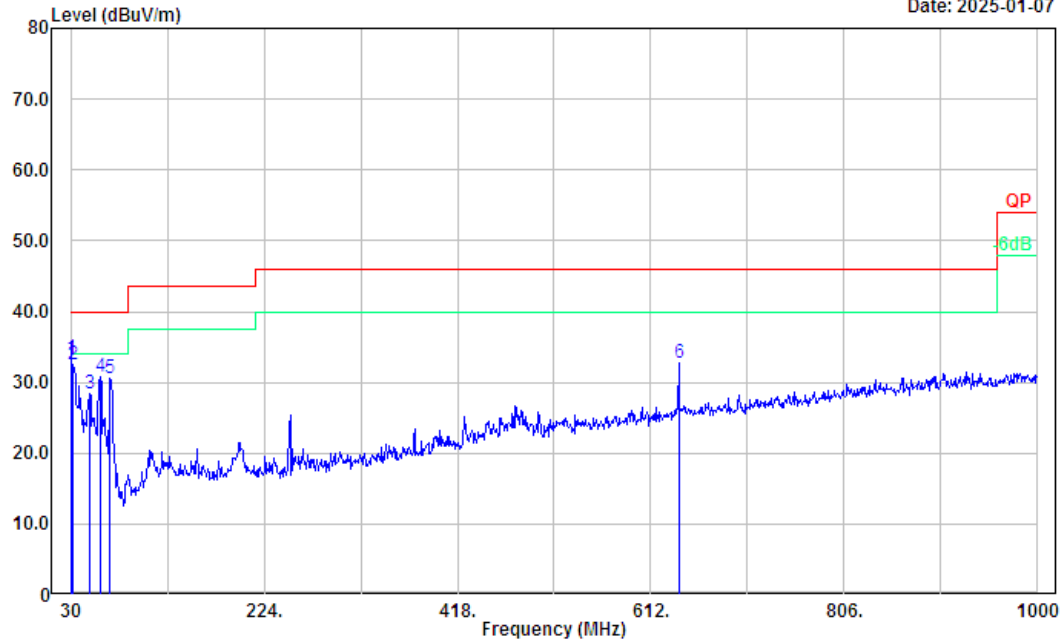


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.00	36.00	-3.71	32.29	40.00	7.71	QP
2	33.88	38.50	-6.34	32.16	40.00	7.84	QP
3	60.07	43.55	-17.38	26.17	40.00	13.83	Peak
4	70.74	44.79	-16.61	28.18	40.00	11.82	Peak
5	239.52	42.94	-11.28	31.66	46.00	14.34	Peak
6	640.13	33.97	-1.48	32.49	46.00	13.51	Peak

Project No.: 2402Z107017E-RF
Polarization: Vertical
Test Mode: Transmitting
: RBW:100kHz VBW:300kHz

Serial No.: 2V5L-3
Tester: Alan Xie

Date: 2025-01-07



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.00	37.10	-3.71	33.39	40.00	6.61	QP
2	32.91	38.24	-5.69	32.55	40.00	7.45	Peak
3	48.43	43.94	-15.47	28.47	40.00	11.53	Peak
4	60.07	48.15	-17.38	30.77	40.00	9.23	Peak
5	69.77	47.17	-16.60	30.57	40.00	9.43	Peak
6	640.13	34.24	-1.48	32.76	46.00	13.24	Peak

2) 1-40GHz:

Serial Number:	2V5L-1	Test Date:	2024/12/21~2024/12/24
Test Site:	Chamber B	Test Mode:	Transmitting
Tester:	Nat Zhou, Colin Yang	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	19.5~20.1	Relative Humidity: (%)	26-27	ATM Pressure: (kPa)	101.5-102.3
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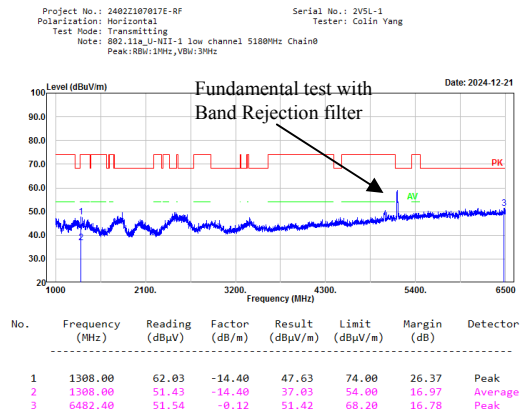
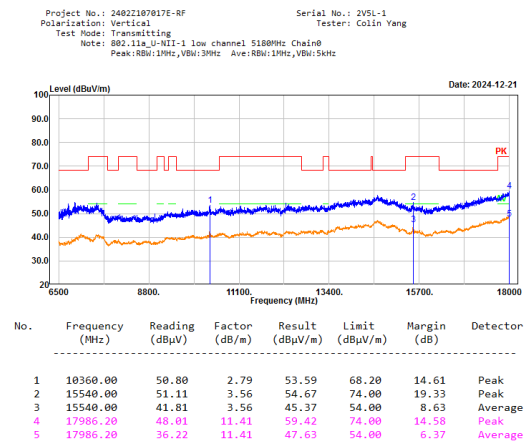
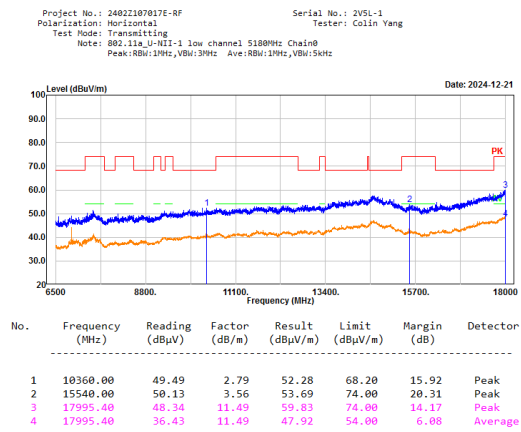
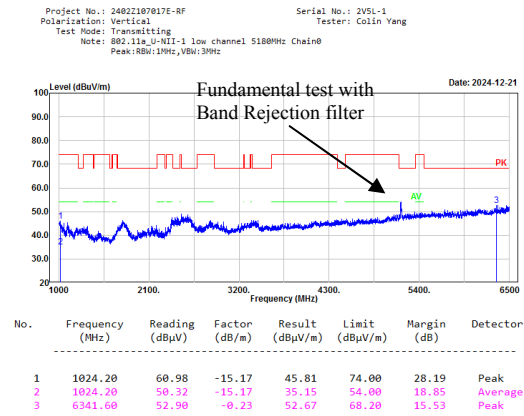
Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
ETS-Lindgren	Horn Antenna	3115	000 527 35	2023/9/7	2026/9/6
Ducommun Technologies	Horn Antenna	ARH-4223-02	1007726-02 1304	2023/2/22	2026/2/21
Ducommun Technologies	Horn Antenna	ARH-2823-02	1007726-01 1302	2023/2/22	2026/2/21
Xinhang Macrowave	Coaxial Cable	XH750A-N/J-SMA/J-10M	20231117004 #0001	2024/11/17	2025/11/16
Xinhang Macrowave	Coaxial Cable	XH360A-2.92/J-2.92/J-6M-A	20231208001 #0001	2024/12/9	2025/12/8
AH	Preamplifier	PAM-0118P	469	2024/4/15	2025/4/14
AH	Preamplifier	PAM-1840VH	191	2024/9/5	2025/9/4
R&S	Spectrum Analyzer	FSV40	101589	2024/9/5	2025/9/4
Audix	Test Software	E3	191218 V9	N/A	N/A
Decentest	Multiplex Switch Test Control Set & Filter Switch Unit	DT7220SCU & DT7220FCU	DC79902 & DC79905	2024/8/27	2025/8/26

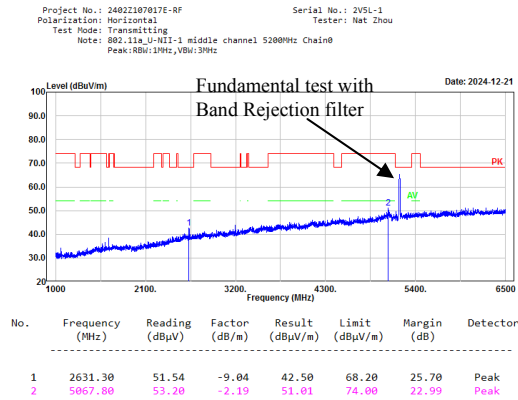
* Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data:

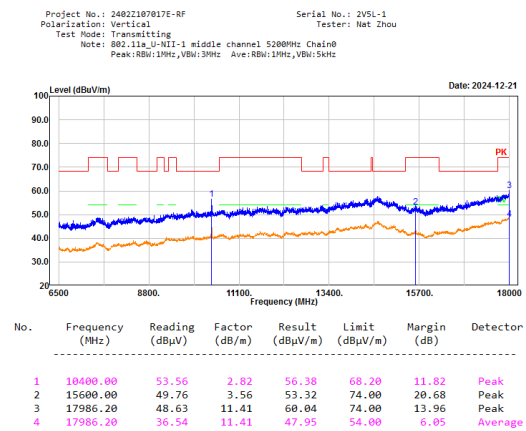
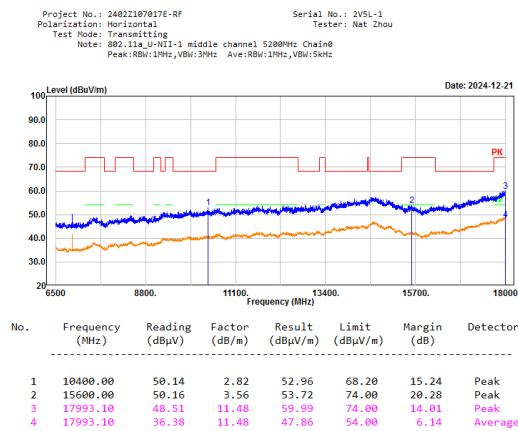
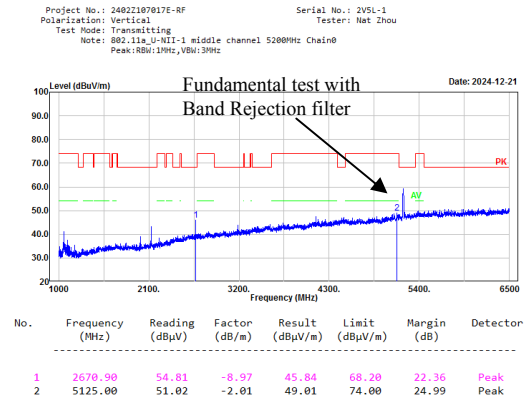
After pre-scan in the X, Y and Z axes of orientation, the worst case is below:

**1-18GHz:
5150-5250MHz:
Chain 0****802.11a mode, Low Channel, Horizontal****802.11a mode, Low Channel, Vertical**

802.11a mode, Middle Channel, Horizontal



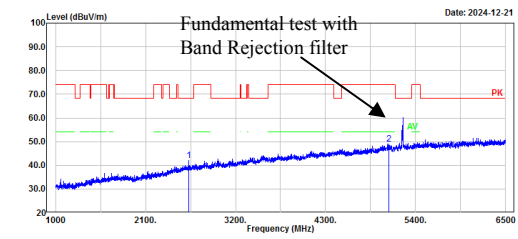
802.11a mode, Middle Channel, Vertical



802.11a mode, High Channel, Horizontal

Project No.: 2402Z107017E-RF
Polarization: Horizontal
Test Mode: Transmitting
Note: 802.11a_U-NII-1 high channel 5240MHz Chain0
Peak:RBW:1MHz,VBW:3MHz

Serial No.: 2V5L-1
Tester: Nat Zhou

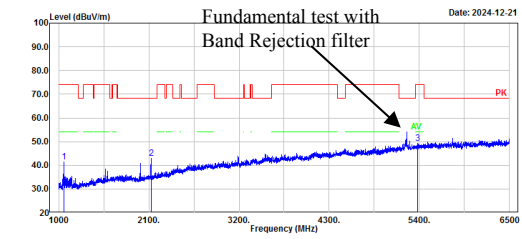


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2631.30	50.94	-9.04	41.90	68.20	26.30	Peak
2	5073.30	51.17	-2.16	49.01	74.00	24.99	Peak

802.11a mode, High Channel, Vertical

Project No.: 2402Z107017E-RF
Polarization: Vertical
Test Mode: Transmitting
Note: 802.11a_U-NII-1 high channel 5240MHz Chain0
Peak:RBW:1MHz,VBW:3MHz

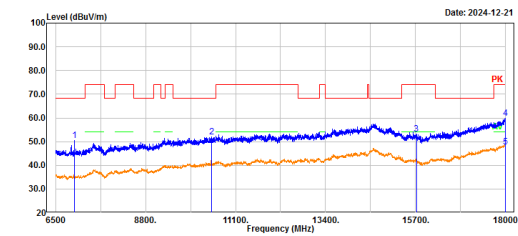
Serial No.: 2V5L-1
Tester: Nat Zhou



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1062.70	56.52	-15.08	41.44	74.00	32.56	Peak
2	2128.60	54.72	-11.73	42.99	68.20	25.21	Peak
3	5375.80	50.66	-1.40	49.26	74.00	24.74	Peak

Project No.: 2402Z107017E-RF
Polarization: Horizontal
Test Mode: Transmitting
Note: 802.11a_U-NII-1 high channel 5240MHz Chain0
Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz

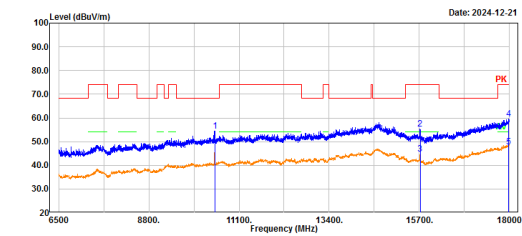
Serial No.: 2V5L-1
Tester: Nat Zhou



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	6985.30	54.40	-4.03	50.37	68.20	17.83	Peak
2	10480.00	49.09	2.93	52.02	68.20	16.18	Peak
3	15720.00	49.81	3.43	53.24	74.00	20.76	Peak
4	17997.70	48.20	11.51	59.71	74.00	14.29	Peak
5	17997.70	36.17	11.51	47.68	54.00	6.32	Average

Project No.: 2402Z107017E-RF
Polarization: Vertical
Test Mode: Transmitting
Note: 802.11a_U-NII-1 high channel 5240MHz Chain0
Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz

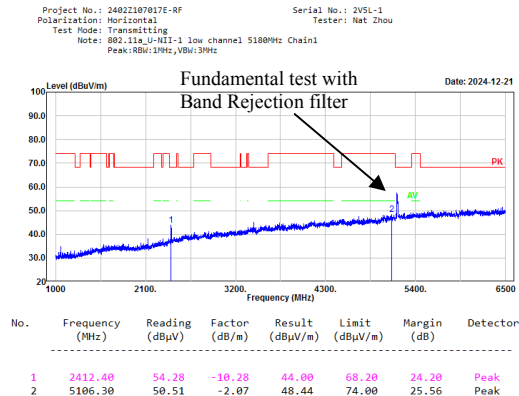
Serial No.: 2V5L-1
Tester: Nat Zhou



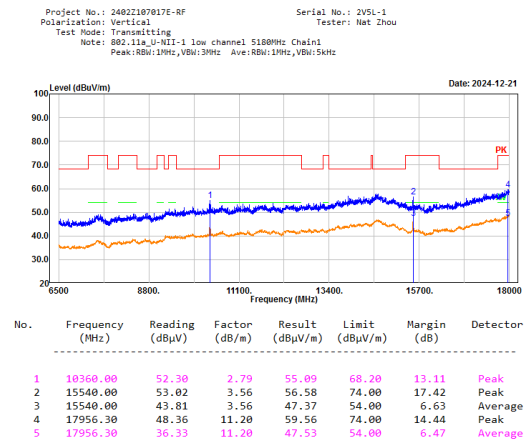
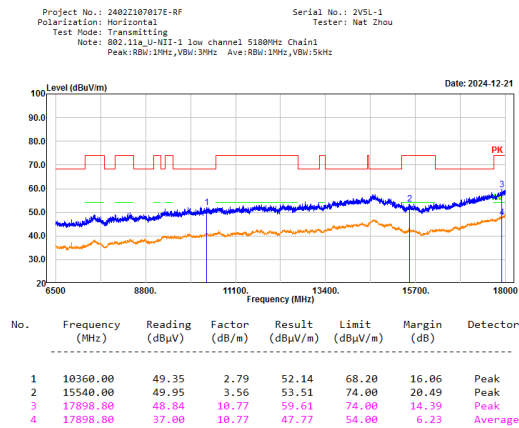
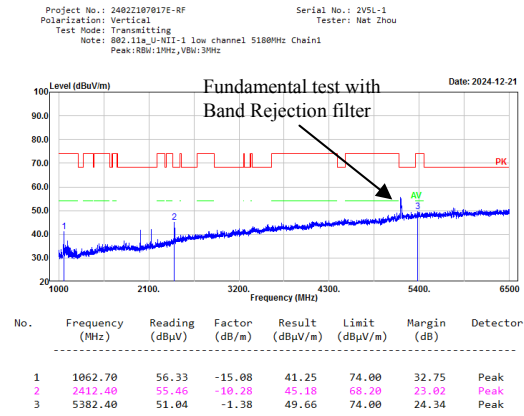
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	10480.00	51.59	2.93	54.52	68.20	13.68	Peak
2	15720.00	51.93	3.43	55.36	74.00	18.64	Peak
3	15720.00	41.43	3.43	44.86	54.00	9.14	Average
4	17981.60	48.07	11.39	59.46	74.00	14.54	Peak
5	17981.60	36.36	11.39	47.75	54.00	6.25	Average

Chain 1

802.11a mode, Low Channel, Horizontal



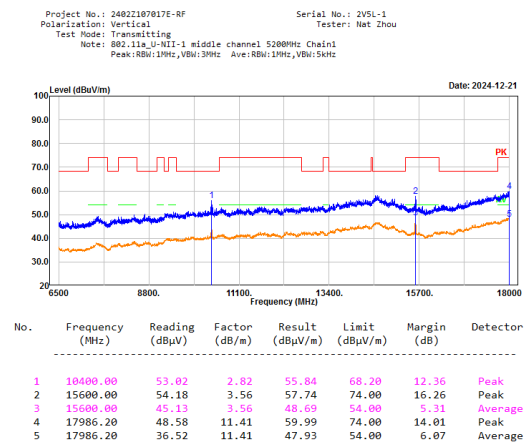
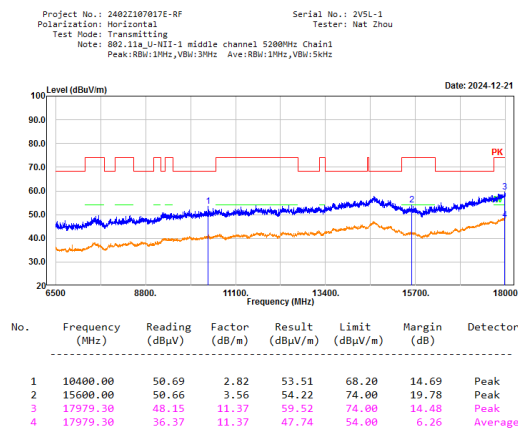
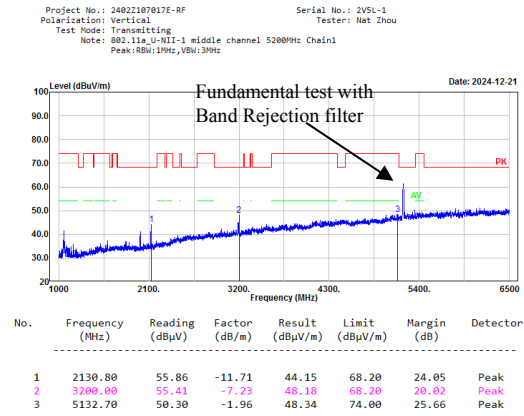
802.11a mode, Low Channel, Vertical



802.11a mode, Middle Channel, Horizontal



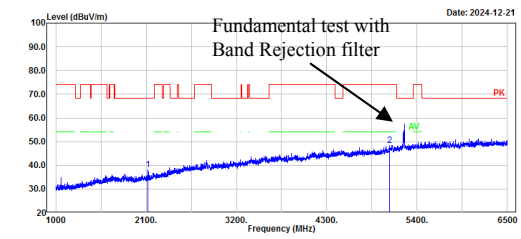
802.11a mode, Middle Channel, Vertical



802.11a mode, High Channel, Horizontal

Project No.: 2402Z107017E-RF
Polarization: Horizontal
Test Mode: Transmitting
Note: 802.11a_U-NII-1 high channel 5240MHz Chain1
Peak:RBW:1MHz,VBW:3MHz

Serial No.: 2V5L-1
Tester: Net Zhou

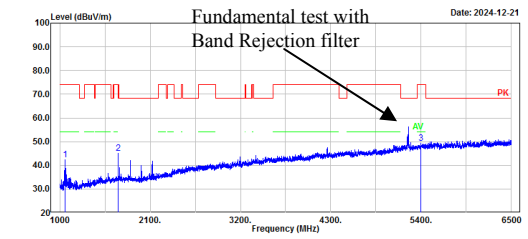


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2125.30	50.02	-11.76	38.26	68.20	29.94	Peak
2	5066.70	50.70	-2.23	48.47	74.00	25.53	Peak

802.11a mode, High Channel, Vertical

Project No.: 2402Z107017E-RF
Polarization: Vertical
Test Mode: Transmitting
Note: 802.11a_U-NII-1 high channel 5240MHz Chain1
Peak:RBW:1MHz,VBW:3MHz

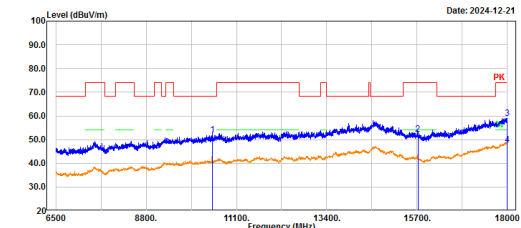
Serial No.: 2V5L-1
Tester: Net Zhou



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1064.90	57.52	-15.08	42.44	74.00	31.56	Peak
2	1711.70	58.18	-13.12	45.06	68.20	23.14	Peak
3	5400.00	58.67	-1.34	49.33	74.00	24.67	Peak

Project No.: 2402Z107017E-RF
Polarization: Horizontal
Test Mode: Transmitting
Note: 802.11a_U-NII-1 high channel 5240MHz Chain1
Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz

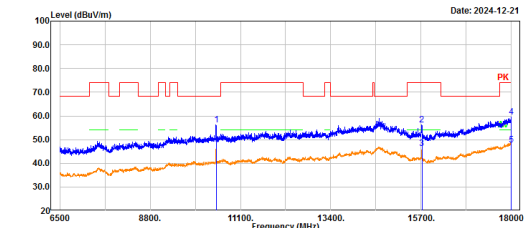
Serial No.: 2V5L-1
Tester: Net Zhou



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	10480.00	48.99	2.93	51.92	68.20	16.28	Peak
2	15720.00	48.89	3.43	52.32	74.00	21.68	Peak
3	17997.70	47.58	11.51	59.09	74.00	14.91	Peak
4	17997.70	36.13	11.51	47.64	54.00	6.36	Average

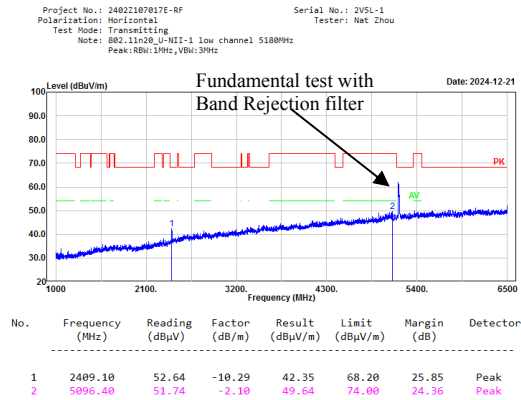
Project No.: 2402Z107017E-RF
Polarization: Vertical
Test Mode: Transmitting
Note: 802.11a_U-NII-1 high channel 5240MHz Chain1
Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz

Serial No.: 2V5L-1
Tester: Net Zhou

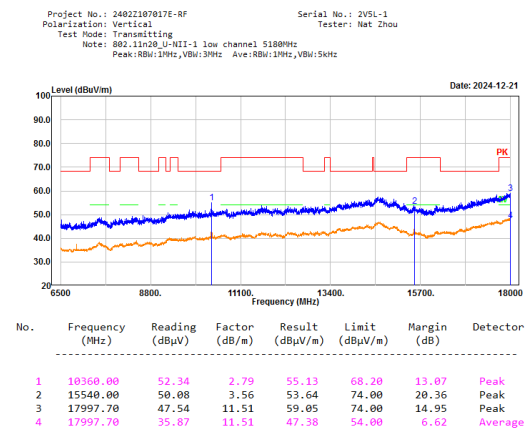
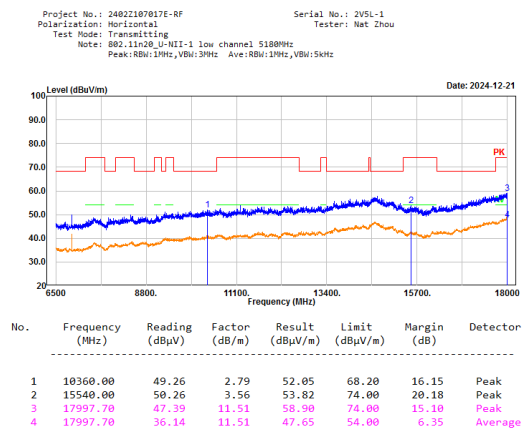
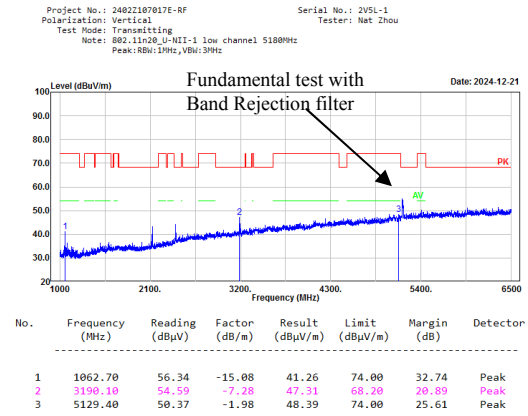


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	10480.00	53.16	2.93	56.09	68.20	12.11	Peak
2	15720.00	52.71	3.43	56.14	74.00	17.86	Peak
3	15720.00	42.83	3.43	46.26	54.00	7.74	Average
4	17990.80	48.06	11.45	59.51	74.00	14.49	Peak
5	17990.80	36.43	11.45	47.88	54.00	6.12	Average

802.11n ht20 mode, Low Channel, Horizontal



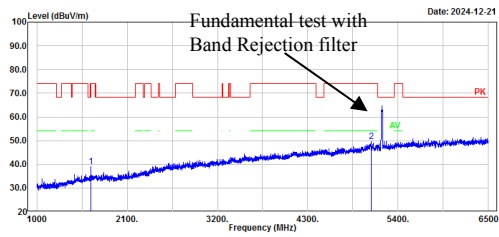
802.11n ht20 mode, Low Channel, Vertical



802.11n ht20 mode, Middle Channel,
Horizontal

Project No.: 2402Z107017E-RF
Polarization: Horizontal
Test Mode: Transmitting
Note: 802.11n20_U-NII-1 middle channel 5200MHz
Peak: RBW:1MHz, VBW:30Hz

Serial No.: 2V5L-1
Tester: Nat Zhou

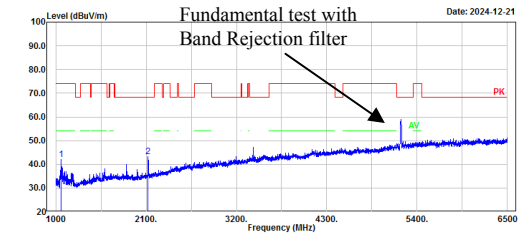


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1658.90	52.28	-13.22	39.06	68.20	29.14	Peak
2	5074.40	51.78	-2.16	49.62	74.00	24.38	Peak

802.11n ht20 mode, Middle Channel,
Vertical

Project No.: 2402Z107017E-RF
Polarization: Vertical
Test Mode: Transmitting
Note: 802.11n20_U-NII-1 middle channel 5200MHz
Peak: RBW:1MHz, VBW:30Hz

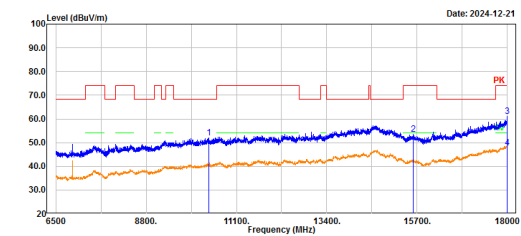
Serial No.: 2V5L-1
Tester: Nat Zhou



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1061.60	57.08	-15.08	42.00	74.00	32.00	Peak
2	2125.30	55.12	-11.76	43.36	68.20	24.84	Peak

Project No.: 2402Z107017E-RF
Polarization: Horizontal
Test Mode: Transmitting
Note: 802.11n20_U-NII-1 middle channel 5200MHz
Peak: RBW:1MHz, VBW:30Hz Ave: RBW:1MHz, VBW:5KHz

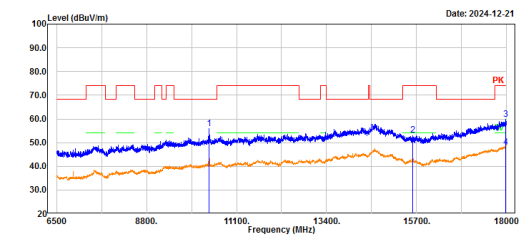
Serial No.: 2V5L-1
Tester: Nat Zhou



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	10400.00	49.31	2.82	52.13	68.20	16.07	Peak
2	15600.00	50.08	3.56	53.64	74.00	20.36	Peak
3	17988.50	49.50	11.43	60.93	74.00	13.07	Peak
4	17988.50	36.46	11.43	47.89	54.00	6.11	Average

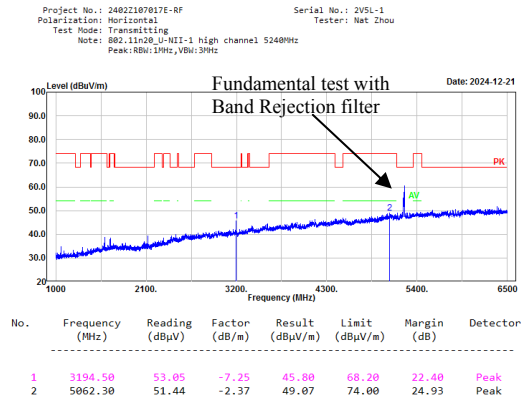
Project No.: 2402Z107017E-RF
Polarization: Vertical
Test Mode: Transmitting
Note: 802.11n20_U-NII-1 middle channel 5200MHz
Peak: RBW:1MHz, VBW:30Hz Ave: RBW:1MHz, VBW:5KHz

Serial No.: 2V5L-1
Tester: Nat Zhou

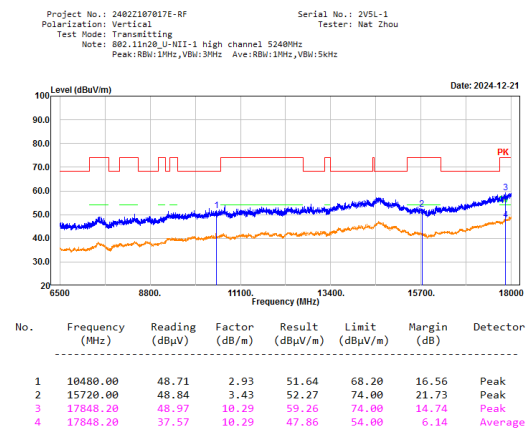
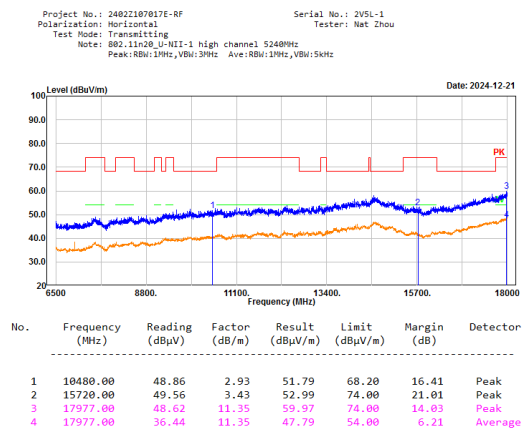
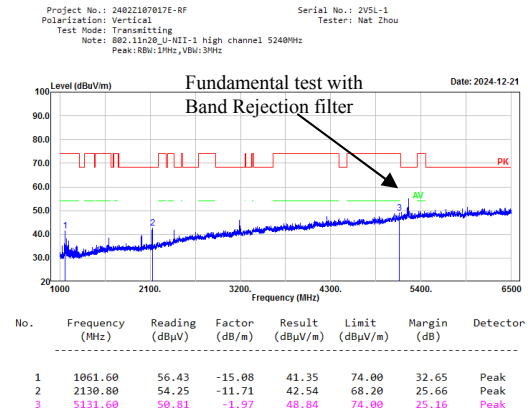


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	10400.00	53.18	2.82	56.00	68.20	12.20	Peak
2	15600.00	49.73	3.56	53.29	74.00	20.71	Peak
3	17967.80	48.63	11.28	59.91	74.00	14.09	Peak
4	17967.80	36.67	11.28	47.95	54.00	6.05	Average

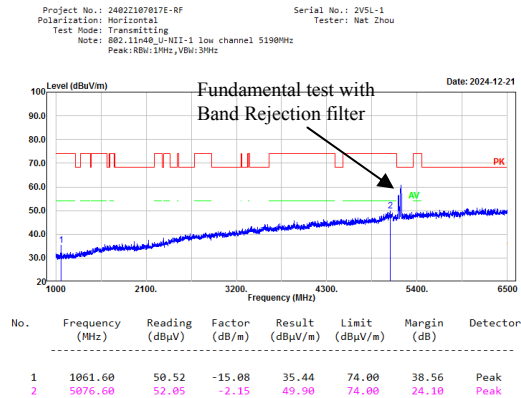
802.11n ht20 mode, High Channel, Horizontal



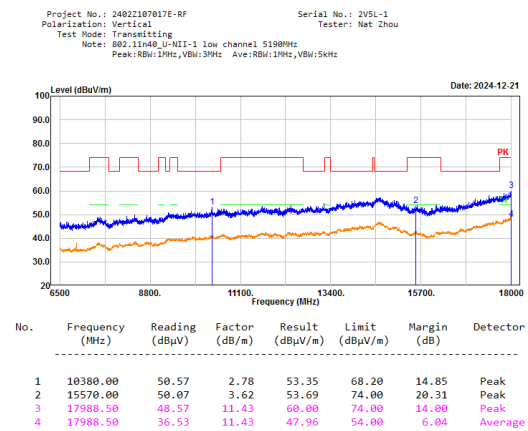
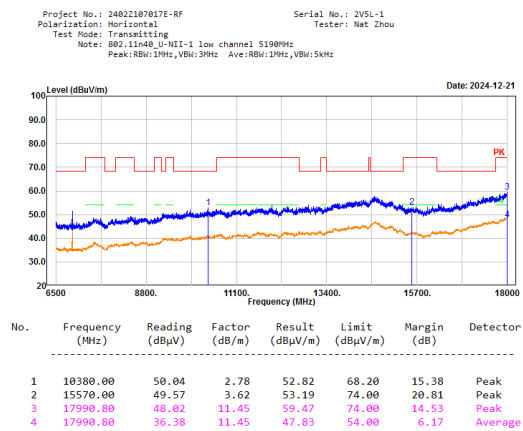
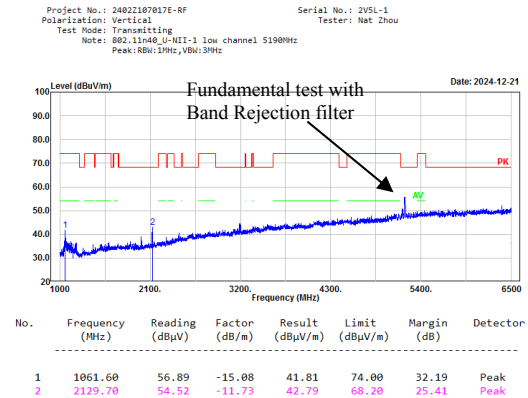
802.11n ht20 mode, High Channel, Vertical



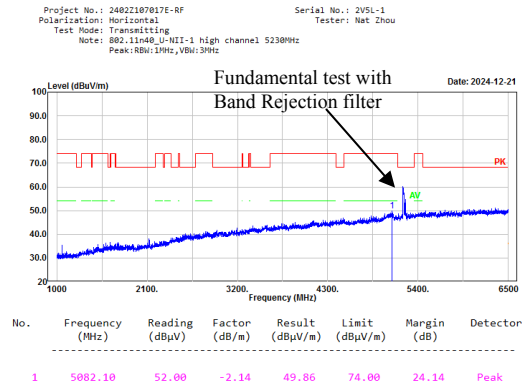
802.11n ht40 mode, Low Channel, Horizontal



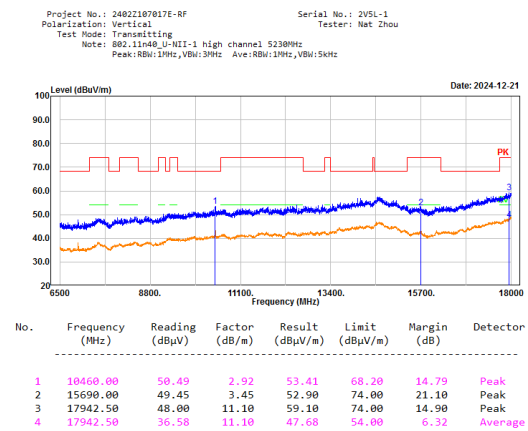
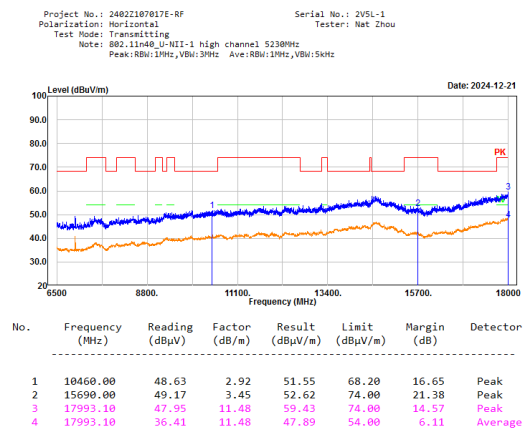
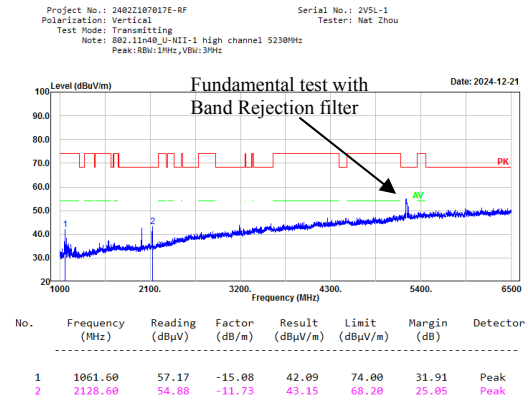
802.11n ht40 mode, Low Channel, Vertical



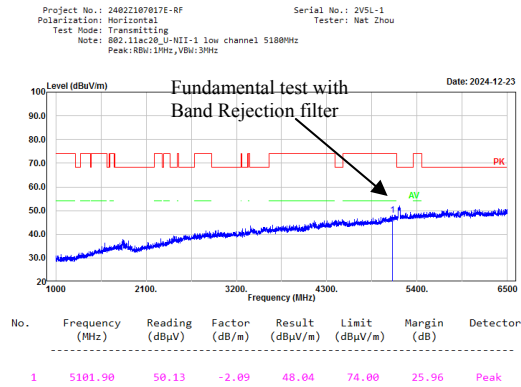
802.11n ht40 mode, High Channel, Horizontal



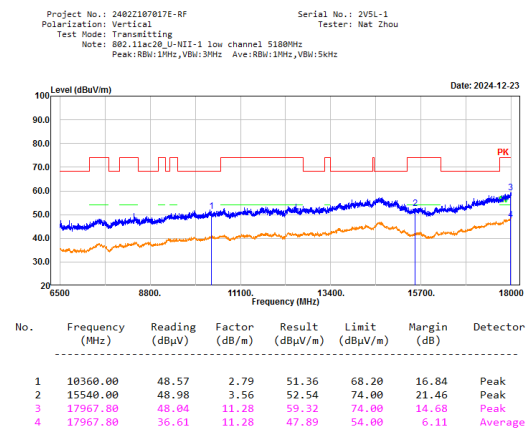
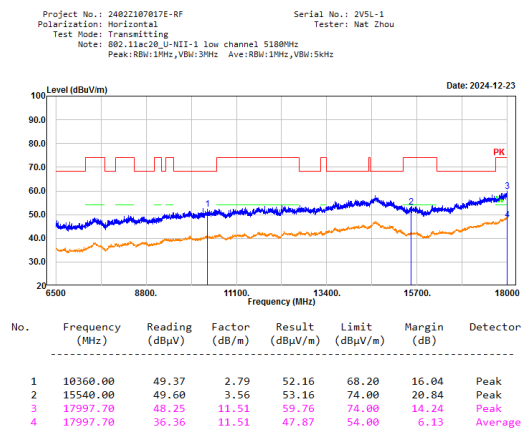
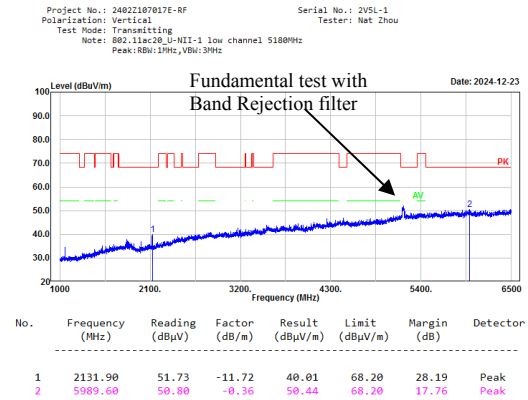
802.11n ht40 mode, High Channel, Vertical



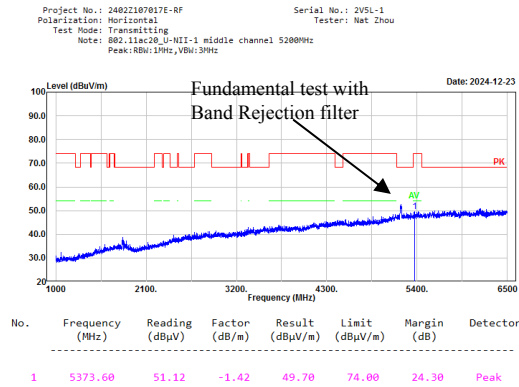
802.11ac20 mode, Low Channel, Horizontal



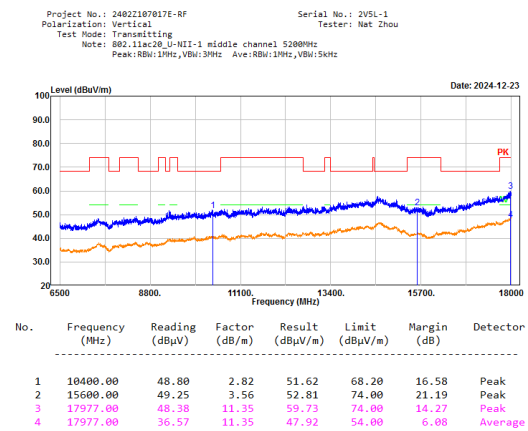
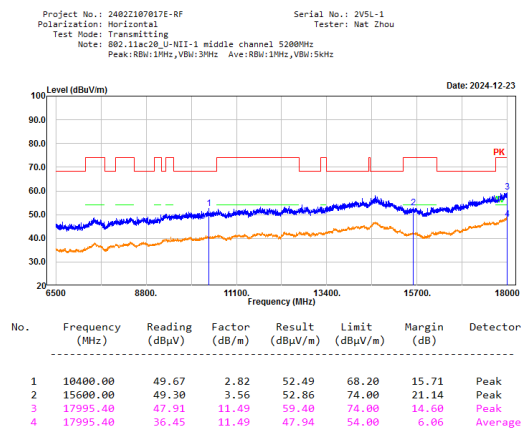
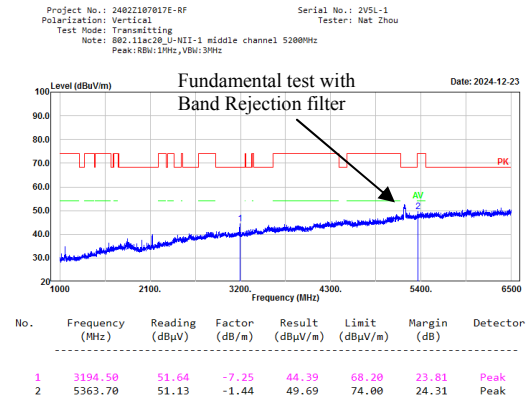
802.11ac20 mode, Low Channel, Vertical



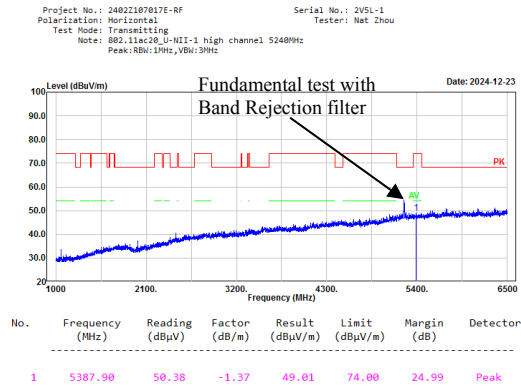
802.11ac20 mode, Middle Channel, Horizontal



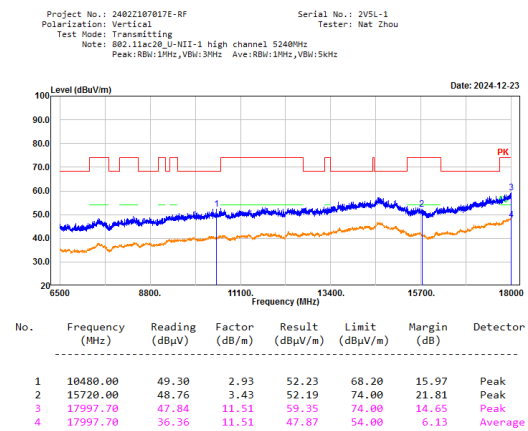
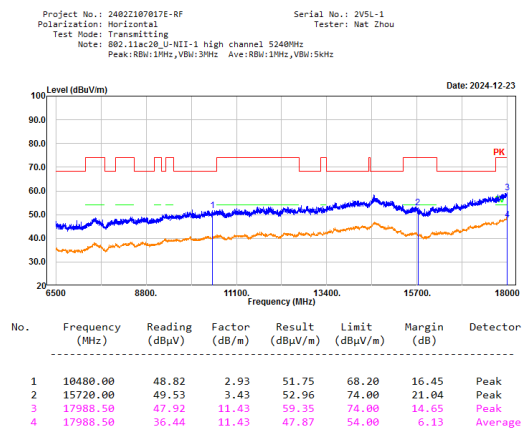
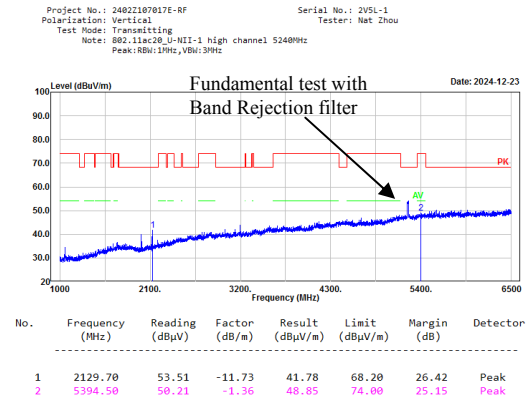
802.11ac20 mode, Middle Channel, Vertical



802.11ac20 mode, High Channel, Horizontal



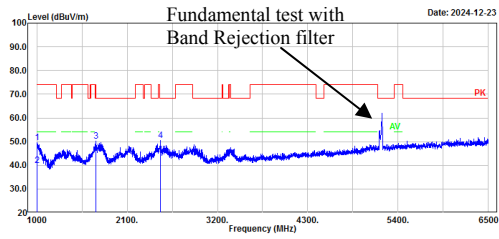
802.11ac20 mode, High Channel, Vertical



802.11ac40 mode, Low Channel, Horizontal

Project No.: 2402Z107017E-RF
Polarization: Horizontal
Test Mode: Transmitting
Note: 802.11ac40_U-NII-1 low channel 5190MHz
Peak:RBW:1MHz,VBW:3MHz

Serial No.: 2V5L-1
Tester: Net Zhou

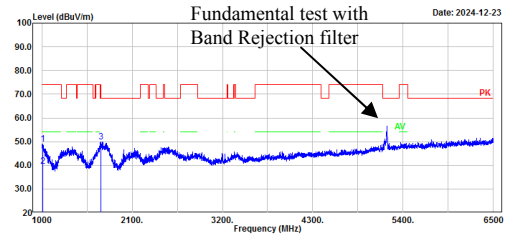


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1007.70	64.94	-15.23	49.71	74.00	24.29	Peak
2	1007.70	55.27	-15.23	40.04	54.00	13.96	Average
3	1723.80	63.15	-13.09	50.06	68.20	18.14	Peak
4	2503.70	60.39	-9.92	50.47	68.20	17.73	Peak

802.11ac40 mode, Low Channel, Vertical

Project No.: 2402Z107017E-RF
Polarization: Vertical
Test Mode: Transmitting
Note: 802.11ac40_U-NII-1 low channel 5190MHz
Peak:RBW:1MHz,VBW:3MHz

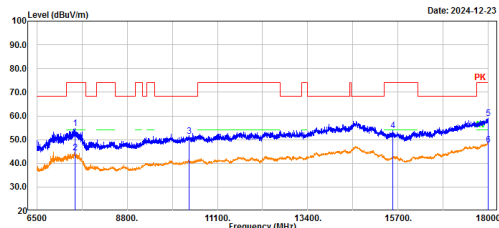
Serial No.: 2V5L-1
Tester: Net Zhou



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1015.40	64.26	-15.21	49.05	74.00	24.95	Peak
2	1015.40	54.75	-15.21	39.54	54.00	14.46	Average
3	1716.10	62.90	-13.09	49.81	68.20	18.39	Peak

Project No.: 2402Z107017E-RF
Polarization: Horizontal
Test Mode: Transmitting
Note: 802.11ac40_U-NII-1 low channel 5190MHz
Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz

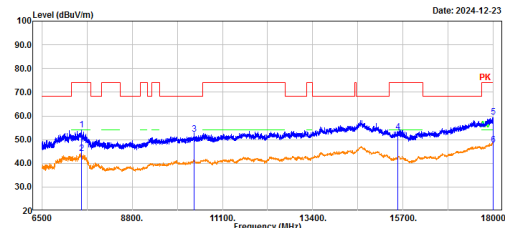
Serial No.: 2V5L-1
Tester: Net Zhou



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	7472.90	56.56	-1.95	54.61	74.00	19.39	Peak
2	7472.90	46.34	-1.95	44.39	54.00	9.61	Average
3	10380.00	48.62	2.78	51.40	68.20	16.80	Peak
4	15570.00	50.24	3.62	53.86	74.00	20.14	Peak
5	17990.00	47.64	11.45	59.09	74.00	14.91	Peak
6	17990.00	36.37	11.45	47.82	54.00	6.18	Average

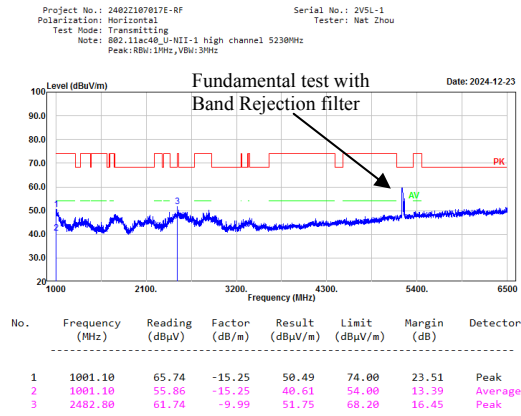
Project No.: 2402Z107017E-RF
Polarization: Vertical
Test Mode: Transmitting
Note: 802.11ac40_U-NII-1 low channel 5190MHz
Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz

Serial No.: 2V5L-1
Tester: Net Zhou

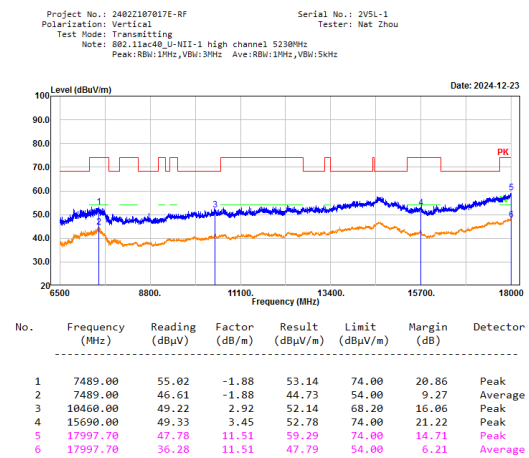
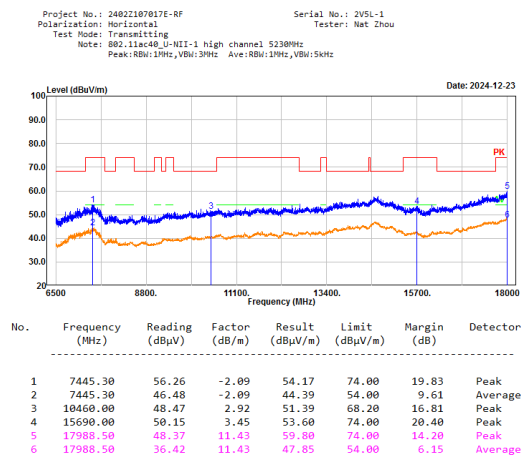
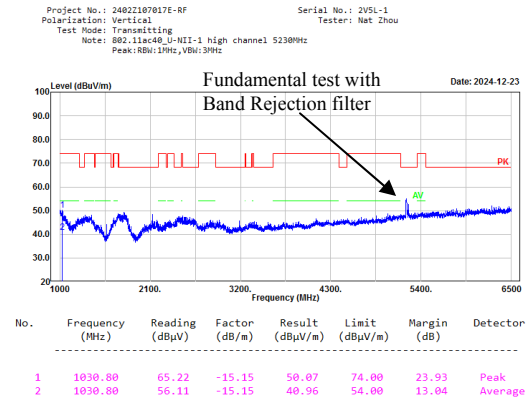


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	7507.40	55.90	-1.83	54.07	74.00	19.93	Peak
2	7507.40	46.01	-1.83	44.18	54.00	9.82	Average
3	10380.00	49.64	2.78	52.42	68.20	15.78	Peak
4	15570.00	49.51	3.62	53.13	74.00	20.87	Peak
5	17993.00	48.13	11.48	59.61	74.00	14.39	Peak
6	17993.00	36.28	11.48	47.76	54.00	6.24	Average

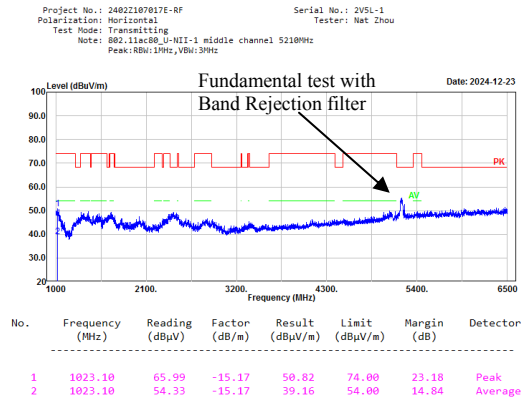
802.11ac40 mode, High Channel, Horizontal



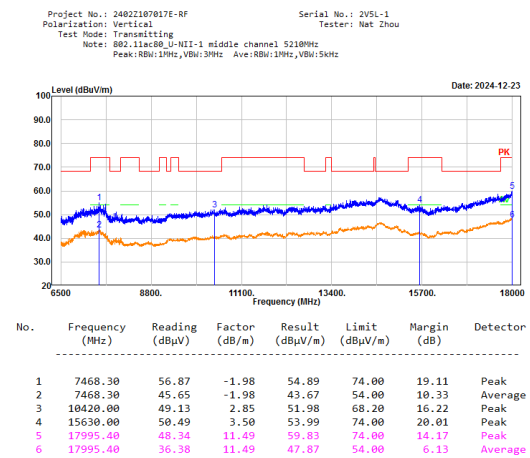
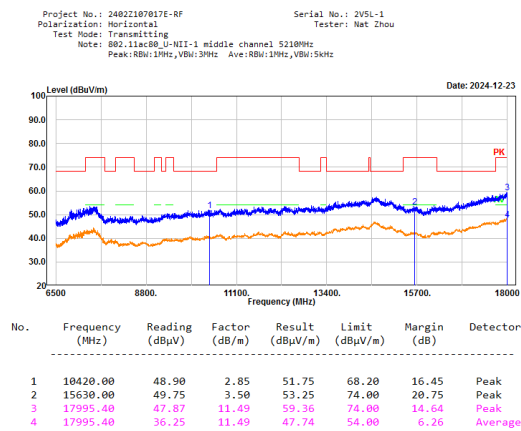
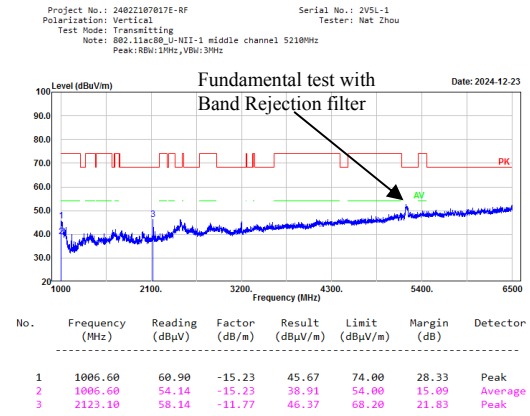
802.11ac40 mode, High Channel, Vertical

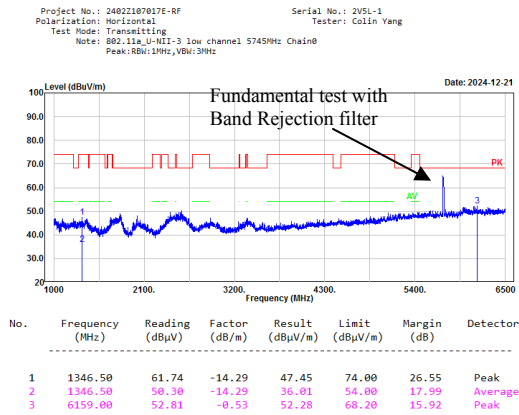
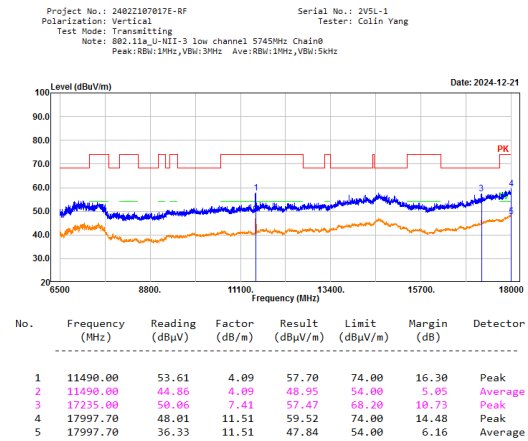
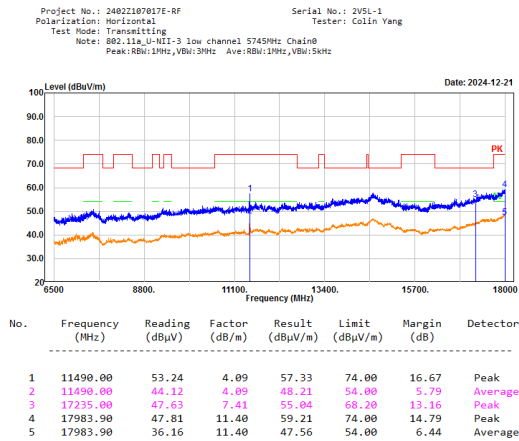
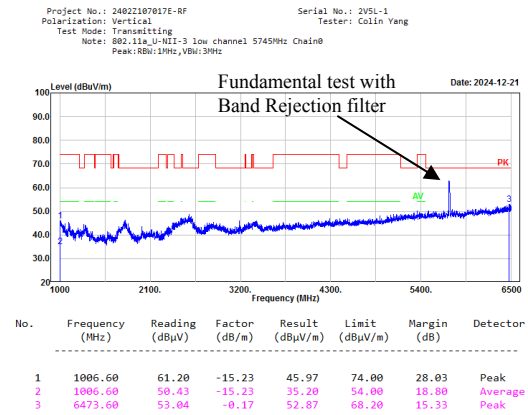


802.11ac80 mode, Middle Channel, Horizontal

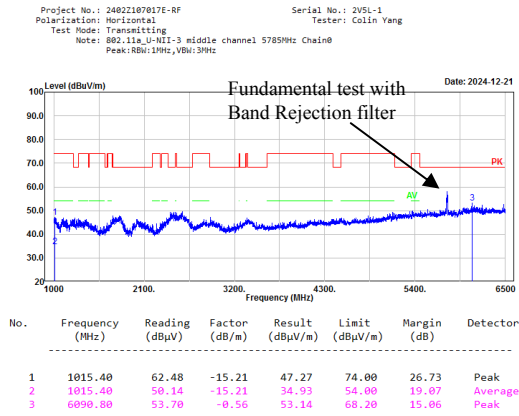


802.11ac80 mode, Middle Channel, Vertical

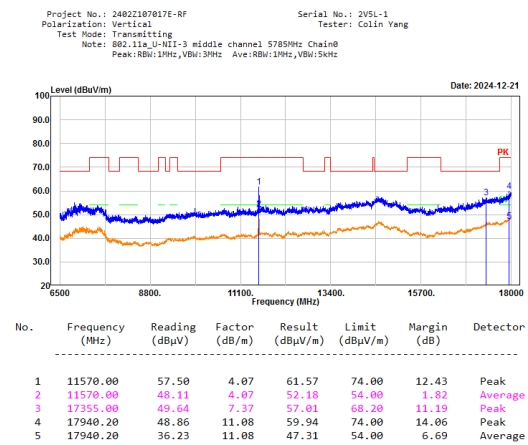
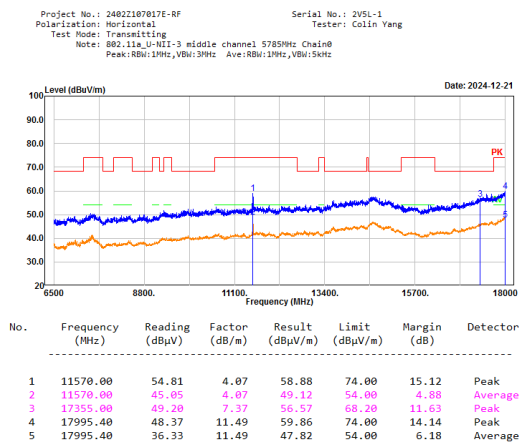
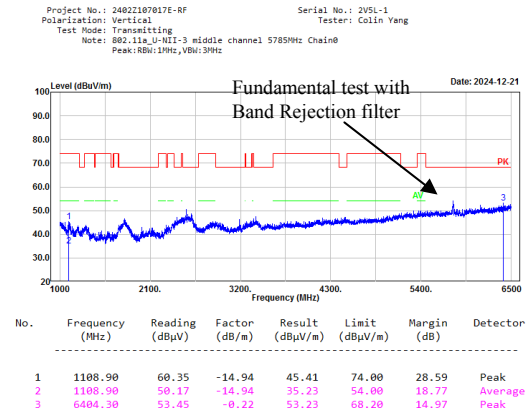


**5725-5850MHz:
Chain 0****802.11a mode, Low Channel, Horizontal****802.11a mode, Low Channel, Vertical**

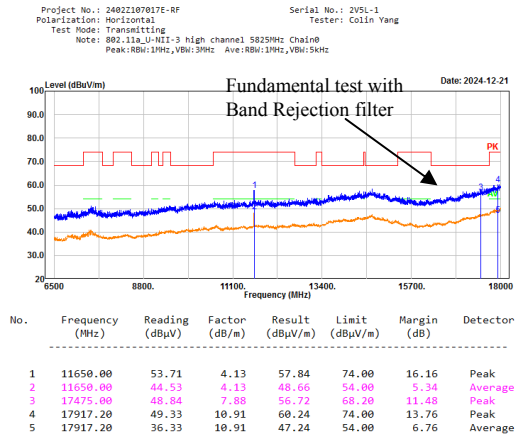
802.11a mode, Middle Channel, Horizontal



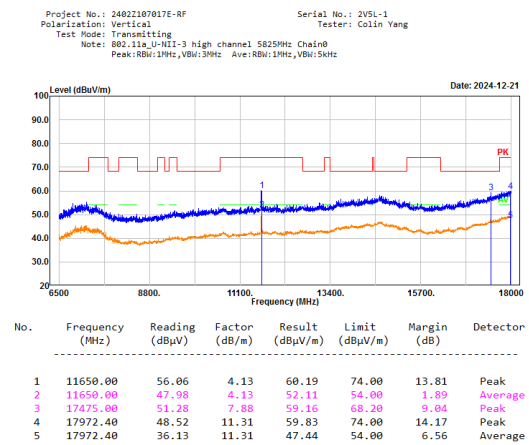
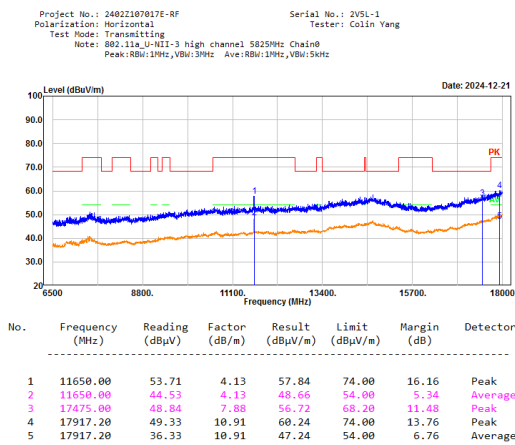
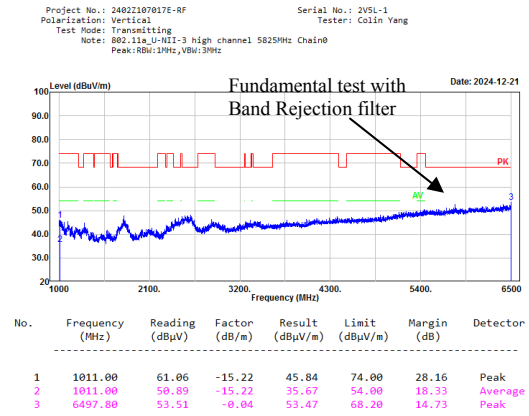
802.11a mode, Middle Channel, Vertical



802.11a mode, High Channel, Horizontal



802.11a mode, High Channel, Vertical

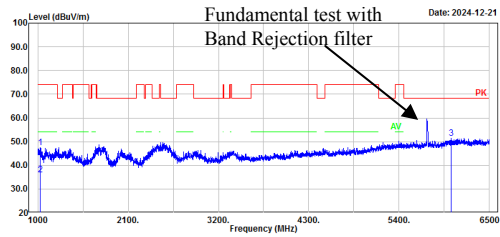


Chain 1

802.11a mode, Low Channel, Horizontal

Project No.: 2402Z107017E-RF
Polarization: Horizontal
Test Mode: Transmitting
Note: 802.11a_U-NII-3 low channel 5745MHz Chain1
Peak:RBW:1MHz,VBW:3MHz

Serial No.: 2VSL-1
Tester: Colin Yang

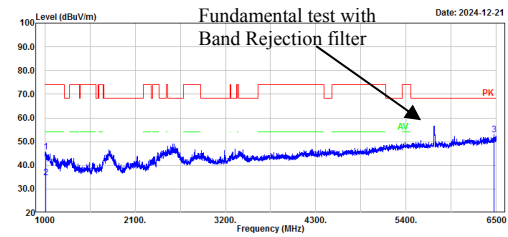


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1030.00	62.63	-15.15	47.48	74.00	26.52	Peak
2	1030.00	51.14	-15.15	35.99	54.00	18.01	Average
3	6030.00	51.64	-0.34	51.30	68.20	16.90	Peak

802.11a mode, Low Channel, Vertical

Project No.: 2402Z107017E-RF
Polarization: Vertical
Test Mode: Transmitting
Note: 802.11a_U-NII-3 low channel 5745MHz Chain1
Peak:RBW:1MHz,VBW:3MHz

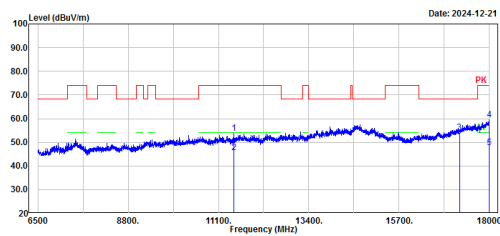
Serial No.: 2VSL-1
Tester: Colin Yang



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1013.20	60.76	-15.22	45.54	74.00	28.46	Peak
2	1013.20	50.04	-15.22	34.82	54.00	19.18	Average
3	6468.10	53.07	-0.19	52.88	68.20	15.32	Peak

Project No.: 2402Z107017E-RF
Polarization: Horizontal
Test Mode: Transmitting
Note: 802.11a_U-NII-3 low channel 5745MHz Chain1
Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz

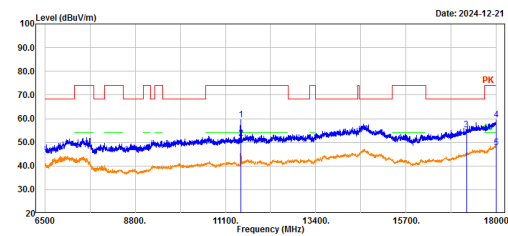
Serial No.: 2VSL-1
Tester: Colin Yang



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	11490.00	49.77	4.09	53.86	74.00	20.14	Peak
2	11490.00	41.43	4.09	45.52	54.00	8.48	Average
3	17235.00	46.69	7.41	54.10	68.20	14.10	Peak
4	17995.40	48.04	11.49	59.53	74.00	14.47	Peak
5	17995.40	36.34	11.49	47.83	54.00	6.17	Average

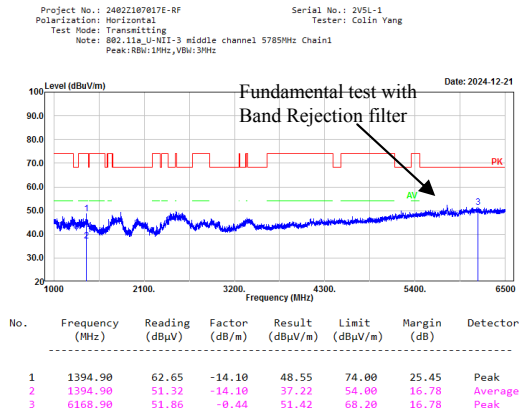
Project No.: 2402Z107017E-RF
Polarization: Vertical
Test Mode: Transmitting
Note: 802.11a_U-NII-3 low channel 5745MHz Chain1
Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz

Serial No.: 2VSL-1
Tester: Colin Yang

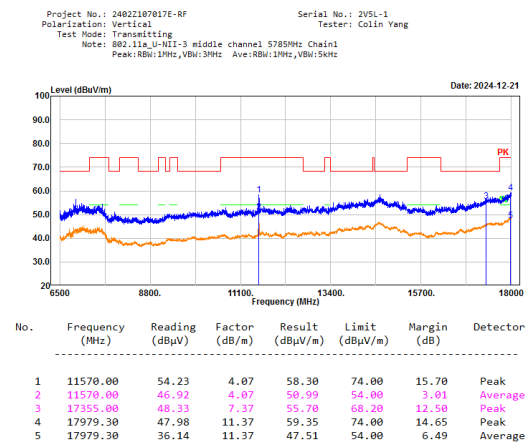
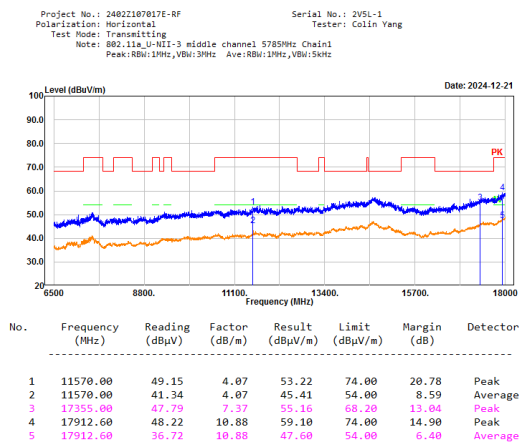
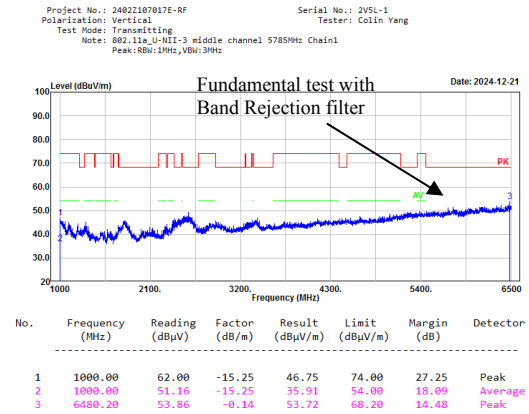


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	11490.00	55.53	4.09	59.62	74.00	14.38	Peak
2	11490.00	47.59	4.09	51.68	54.00	2.32	Average
3	17235.00	47.84	7.41	55.25	68.20	12.95	Peak
4	17997.70	48.11	11.51	59.62	74.00	14.38	Peak
5	17997.70	36.22	11.51	47.73	54.00	6.27	Average

802.11a mode, Middle Channel, Horizontal



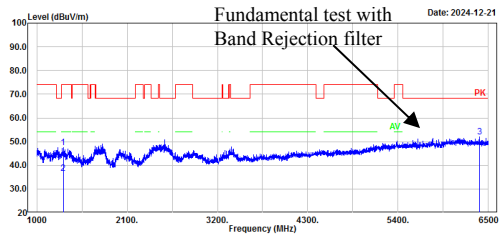
802.11a mode, Middle Channel, Vertical



802.11a mode, High Channel, Horizontal

Project No.: 2402Z107017E-RF
Polarization: Horizontal
Test Mode: Transmitting
Note: 802.11a_U-NII-3 high channel 5825MHz Chain1
Peak: RBW:1MHz, VBW:3MHz

Serial No.: 2VSL-1
Tester: Colin Yang

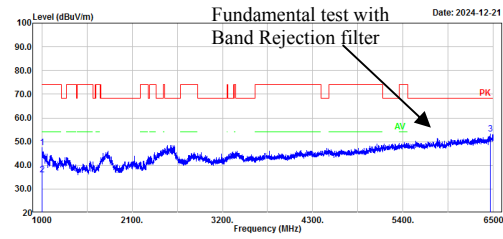


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1322.30	61.77	-14.33	47.44	74.00	26.56	Peak
2	1322.30	50.86	-14.33	36.53	54.00	17.47	Average
3	6388.90	52.17	-0.27	51.90	68.20	16.30	Peak

802.11a mode, High Channel, Vertical

Project No.: 2402Z107017E-RF
Polarization: Vertical
Test Mode: Transmitting
Note: 802.11a_U-NII-3 high channel 5825MHz Chain1
Peak: RBW:1MHz, VBW:3MHz

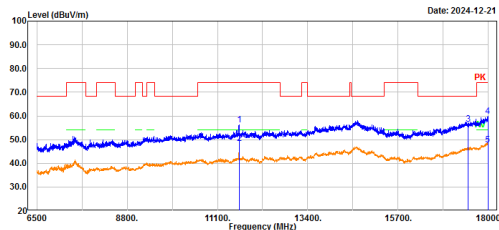
Serial No.: 2VSL-1
Tester: Colin Yang



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1001.10	62.79	-15.25	47.54	74.00	26.46	Peak
2	1001.10	51.25	-15.25	36.00	54.00	18.00	Average
3	6465.90	53.53	-0.19	53.34	68.20	14.86	Peak

Project No.: 2402Z107017E-RF
Polarization: Horizontal
Test Mode: Transmitting
Note: 802.11a_U-NII-3 high channel 5825MHz Chain1
Peak: RBW:1MHz, VBW:3MHz Ave: RBW:1MHz, VBW:5kHz

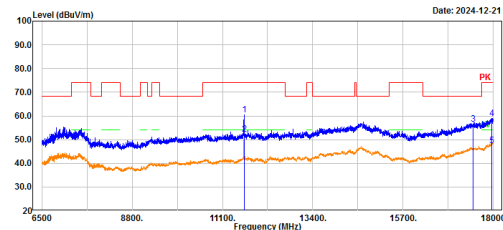
Serial No.: 2VSL-1
Tester: Colin Yang



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	11650.00	52.11	4.13	56.24	74.00	17.76	Peak
2	11650.00	44.23	4.13	48.36	54.00	5.64	Average
3	17475.00	48.68	7.88	56.56	68.20	11.64	Peak
4	17983.90	48.55	11.40	59.95	74.00	14.05	Peak
5	17983.90	36.32	11.40	47.72	54.00	6.28	Average

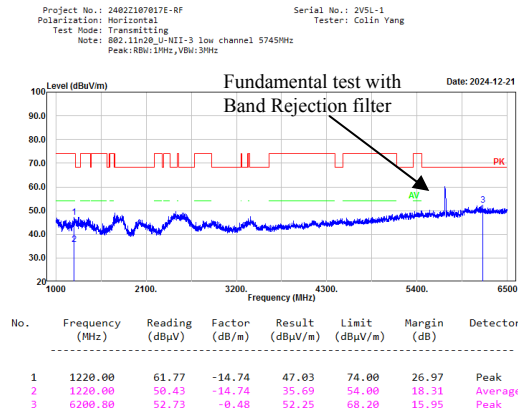
Project No.: 2402Z107017E-RF
Polarization: Vertical
Test Mode: Transmitting
Note: 802.11a_U-NII-3 high channel 5825MHz Chain1
Peak: RBW:1MHz, VBW:3MHz Ave: RBW:1MHz, VBW:5kHz

Serial No.: 2VSL-1
Tester: Colin Yang

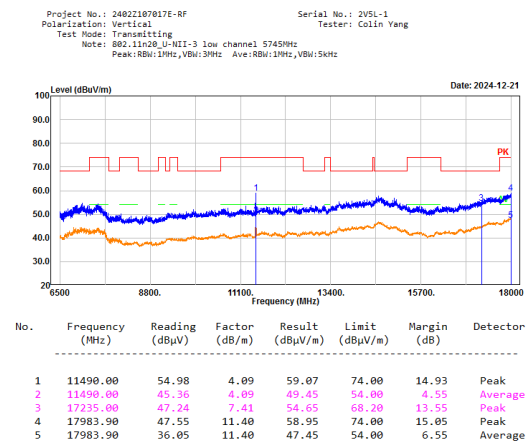
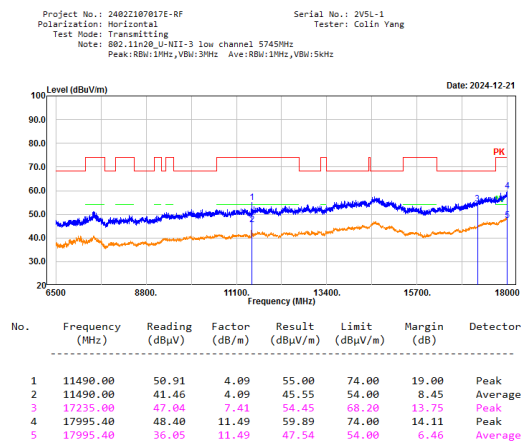
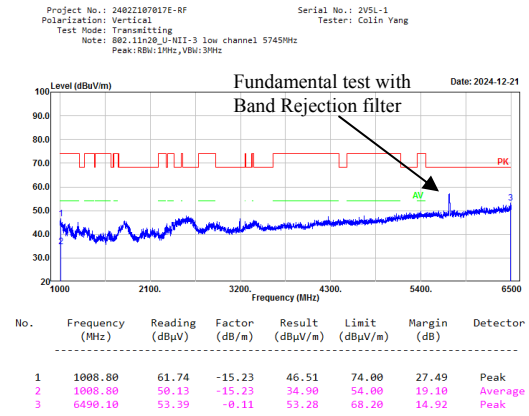


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	11650.00	56.18	4.13	60.31	74.00	13.69	Peak
2	11650.00	48.12	4.13	52.25	54.00	1.75	Average
3	17475.00	48.69	7.88	56.57	68.20	11.63	Peak
4	17960.90	47.73	11.23	58.96	74.00	15.04	Peak
5	17960.90	36.28	11.23	47.51	54.00	6.49	Average

802.11n ht20 mode, Low Channel, Horizontal



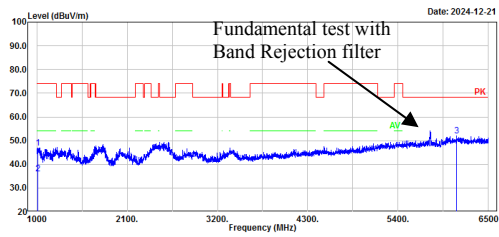
802.11n ht20 mode, Low Channel, Vertical



802.11n ht20 mode, Middle Channel,
Horizontal

Project No.: 2402Z107017E-RF
Polarization: Horizontal
Test Mode: Transmitting
Note: 802.11n20_U-NII-3 middle channel 5785MHz
Peak: RBW:1MHz, VBW:3MHz

Serial No.: 2VSL-1
Tester: Colin Yang

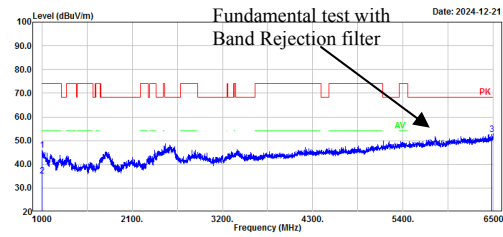


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1015.40	62.20	-15.21	46.99	74.00	27.01	Peak
2	1015.40	51.27	-15.21	36.06	54.00	17.94	Average
3	6113.90	52.54	-0.58	51.96	68.20	16.24	Peak

802.11n ht20 mode, Middle Channel,
Vertical

Project No.: 2402Z107017E-RF
Polarization: Vertical
Test Mode: Transmitting
Note: 802.11n20_U-NII-3 middle channel 5785MHz
Peak: RBW:1MHz, VBW:3MHz

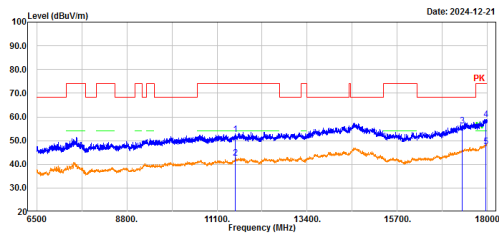
Serial No.: 2VSL-1
Tester: Colin Yang



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1003.30	61.18	-15.24	45.94	74.00	28.06	Peak
2	1003.30	50.27	-15.24	35.03	54.00	18.97	Average
3	6479.10	52.77	-0.14	52.63	68.20	15.57	Peak

Project No.: 2402Z107017E-RF
Polarization: Horizontal
Test Mode: Transmitting
Note: 802.11n20_U-NII-3 middle channel 5785MHz
Peak: RBW:1MHz, VBW:3MHz Ave: RBW:1MHz, VBW:5kHz

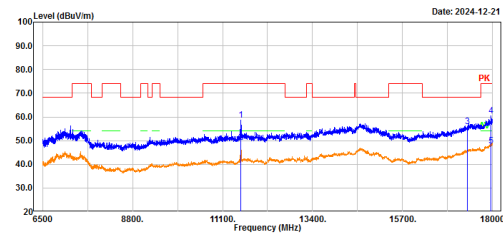
Serial No.: 2VSL-1
Tester: Colin Yang



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	11570.00	48.60	4.07	52.75	74.00	21.25	Peak
2	11570.00	38.61	4.07	42.68	54.00	11.32	Average
3	17355.00	48.97	7.37	56.34	68.20	11.86	Peak
4	17963.20	47.84	11.24	59.08	74.00	14.92	Peak
5	17963.20	36.25	11.24	47.49	54.00	6.51	Average

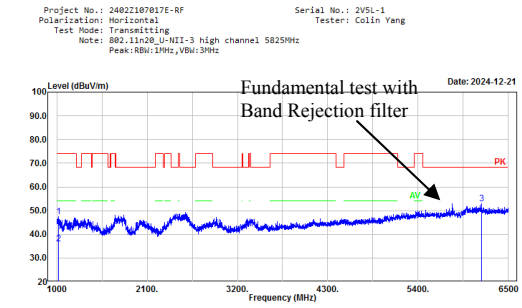
Project No.: 2402Z107017E-RF
Polarization: Vertical
Test Mode: Transmitting
Note: 802.11n20_U-NII-3 middle channel 5785MHz
Peak: RBW:1MHz, VBW:3MHz Ave: RBW:1MHz, VBW:5kHz

Serial No.: 2VSL-1
Tester: Colin Yang



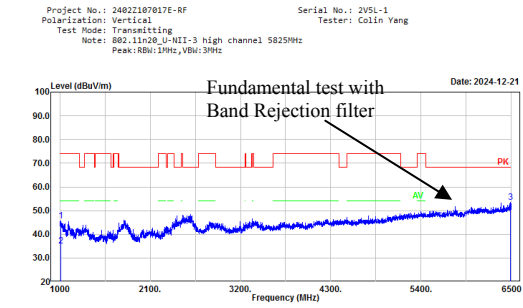
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	11570.00	54.53	4.07	58.60	74.00	15.40	Peak
2	11570.00	45.35	4.07	49.42	54.00	4.58	Average
3	17355.00	48.48	7.37	55.85	68.20	12.35	Peak
4	17949.40	49.30	11.16	60.46	74.00	13.54	Peak
5	17949.40	36.70	11.16	47.86	54.00	6.14	Average

802.11n ht20 mode, High Channel, Horizontal

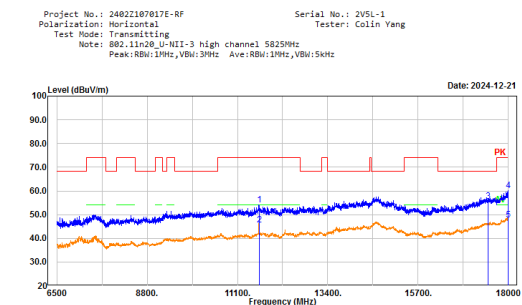


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1020.90	62.67	-15.19	47.48	74.00	26.52	Peak
2	1020.90	51.33	-15.19	36.14	54.00	17.86	Average
3	6170.00	53.22	-0.43	52.79	68.20	15.41	Peak

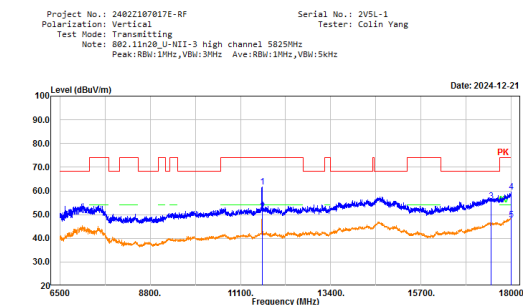
802.11n ht20 mode, High Channel, Vertical



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1015.40	60.82	-15.21	45.61	74.00	28.39	Peak
2	1015.40	50.17	-15.21	34.96	54.00	19.04	Average
3	6491.20	53.50	-0.11	53.39	68.20	14.81	Peak



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	11650.00	49.92	4.13	54.05	74.00	19.95	Peak
2	11650.00	41.45	4.13	45.58	54.00	8.42	Average
3	17475.00	47.86	7.88	55.74	68.20	12.46	Peak
4	17990.80	48.77	11.45	60.22	74.00	13.78	Peak
5	17990.80	36.20	11.45	47.65	54.00	6.35	Average

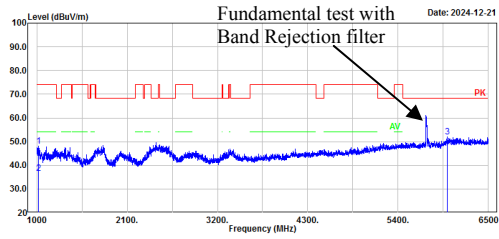


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	11650.00	57.45	4.13	61.58	74.00	12.42	Peak
2	11650.00	47.36	4.13	51.49	54.00	2.51	Average
3	17475.00	47.87	7.88	55.75	68.20	12.45	Peak
4	17997.70	48.11	11.51	59.62	74.00	14.38	Peak
5	17997.70	36.20	11.51	47.71	54.00	6.29	Average

802.11n ht40 mode, Low Channel, Horizontal

Project No.: 2402Z107017E-RF
Polarization: Horizontal
Test Mode: Transmitting
Note: 802.11n40_U-NII-3 low channel 5755MHz
Peak: RBW:1MHz, VBW:3MHz

Serial No.: 2VSL-1
Tester: Colin Yang

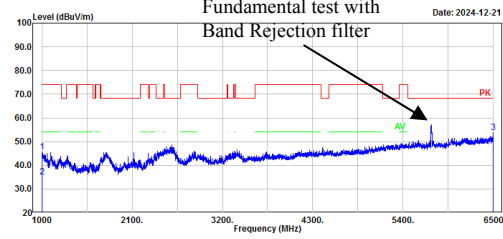


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1023.10	63.27	-15.17	48.10	74.00	25.90	Peak
2	1023.10	51.78	-15.17	36.61	54.00	17.39	Average
3	6002.80	52.26	-0.35	51.91	68.20	16.29	Peak

802.11n ht40 mode, Low Channel, Vertical

Project No.: 2402Z107017E-RF
Polarization: Vertical
Test Mode: Transmitting
Note: 802.11n40_U-NII-3 low channel 5755MHz
Peak: RBW:1MHz, VBW:3MHz

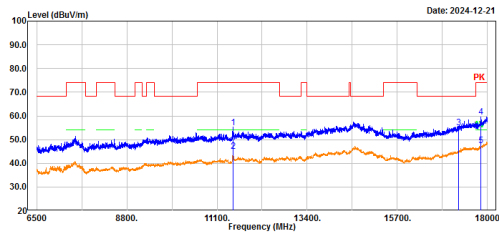
Serial No.: 2VSL-1
Tester: Colin Yang



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1007.70	60.87	-15.23	45.64	74.00	28.36	Peak
2	1007.70	50.34	-15.23	35.11	54.00	18.89	Average
3	6498.90	53.73	-0.03	53.70	68.20	14.50	Peak

Project No.: 2402Z107017E-RF
Polarization: Horizontal
Test Mode: Transmitting
Note: 802.11n40_U-NII-3 low channel 5755MHz
Peak: RBW:1MHz, VBW:3MHz Ave: RBW:1MHz, VBW:5kHz

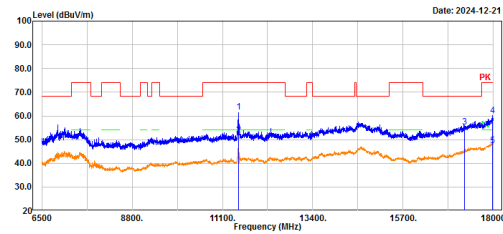
Serial No.: 2VSL-1
Tester: Colin Yang



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	11510.00	50.81	4.09	54.90	74.00	19.10	Peak
2	11510.00	40.88	4.09	44.97	54.00	9.03	Average
3	17265.00	47.70	7.38	55.08	68.20	13.12	Peak
4	17825.20	49.46	10.09	59.55	74.00	14.45	Peak
5	17825.20	37.52	10.09	47.61	54.00	6.39	Average

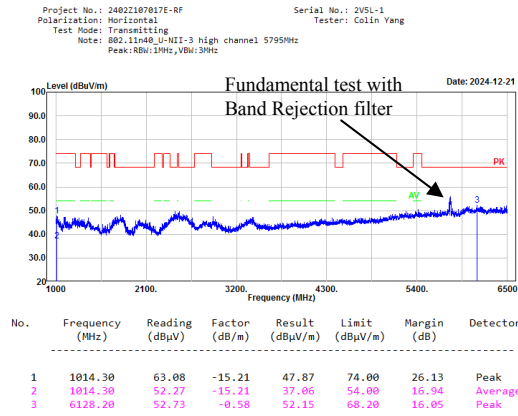
Project No.: 2402Z107017E-RF
Polarization: Vertical
Test Mode: Transmitting
Note: 802.11n40_U-NII-3 low channel 5755MHz
Peak: RBW:1MHz, VBW:3MHz Ave: RBW:1MHz, VBW:5kHz

Serial No.: 2VSL-1
Tester: Colin Yang

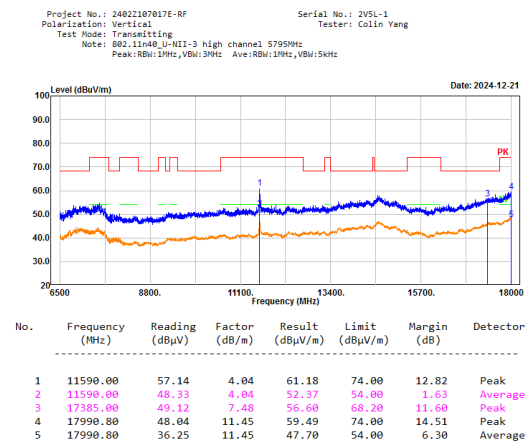
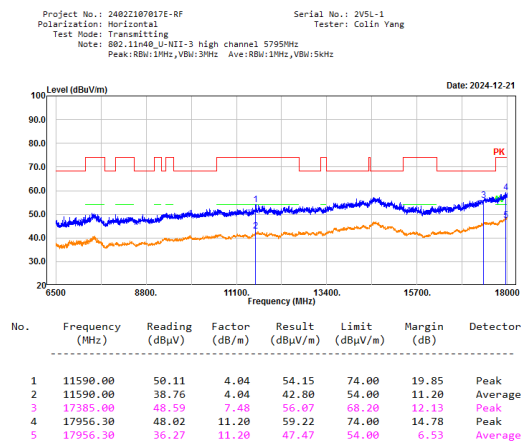
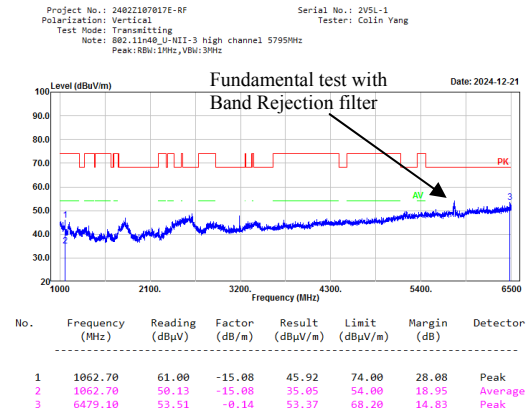


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	11510.00	57.44	4.09	61.53	74.00	12.47	Peak
2	11510.00	48.03	4.09	52.12	54.00	1.88	Average
3	17265.00	47.81	7.38	55.19	68.20	13.01	Peak
4	17979.30	48.71	11.37	60.08	74.00	13.92	Peak
5	17979.30	36.12	11.37	47.49	54.00	6.51	Average

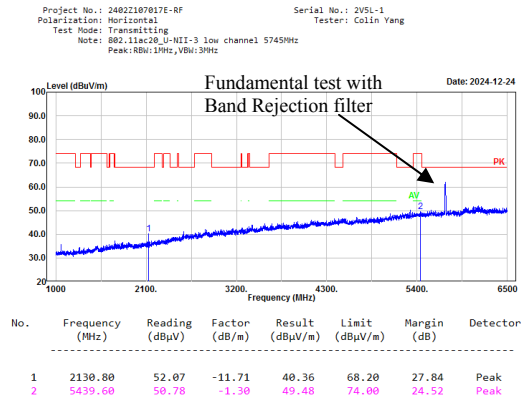
802.11n ht40 mode, High Channel, Horizontal



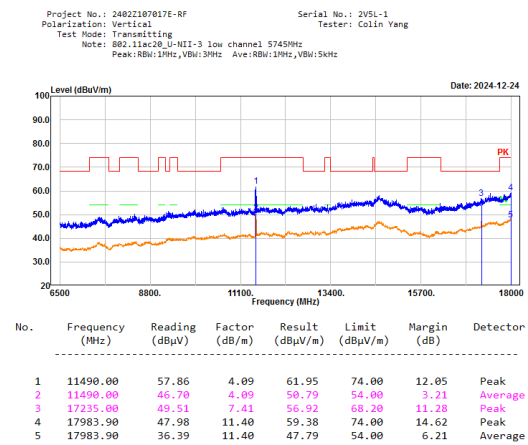
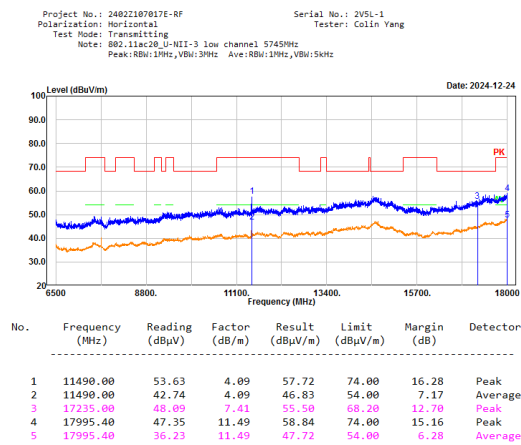
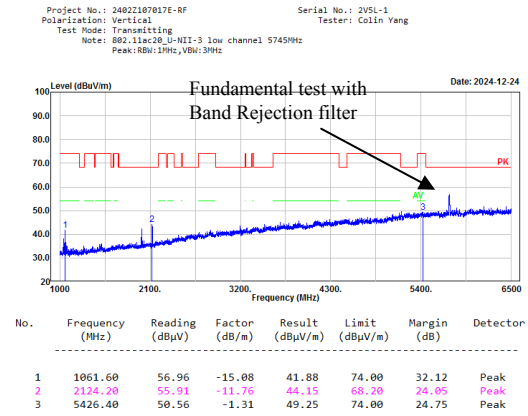
802.11n ht40 mode, High Channel, Vertical



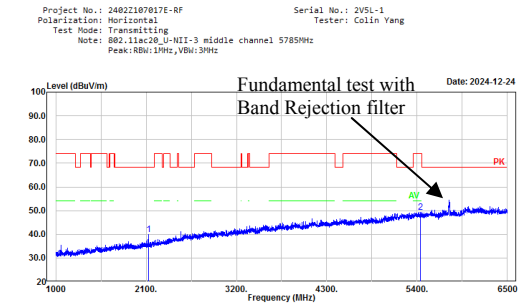
802.11ac20 mode, Low Channel, Horizontal



802.11ac20 mode, Low Channel, Vertical

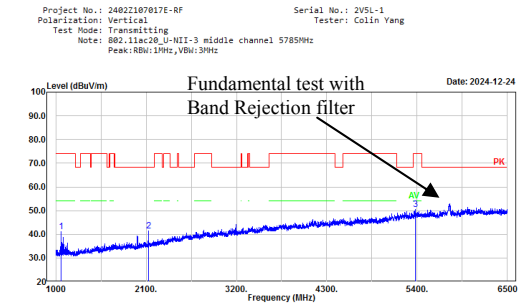


802.11ac20 mode, Middle Channel, Horizontal

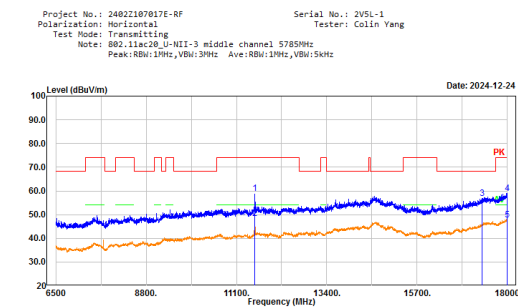


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2131.90	51.51	-11.72	39.79	68.20	28.41	Peak
2	5437.40	50.67	-1.31	49.36	74.00	24.64	Peak

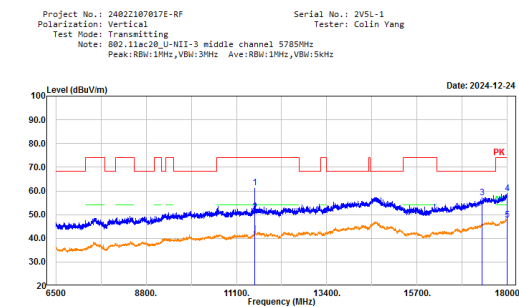
802.11ac20 mode, Middle Channel, Vertical



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1061.60	56.32	-15.08	41.24	74.00	32.76	Peak
2	2128.60	53.03	-11.73	41.30	68.20	26.90	Peak
3	5382.40	51.96	-1.38	50.58	74.00	23.42	Peak

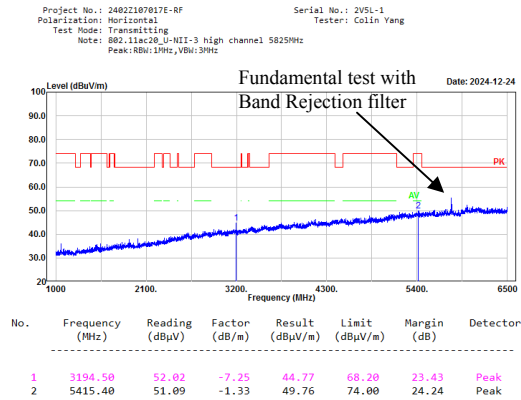


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	11570.00	54.83	4.07	58.90	74.00	15.10	Peak
2	11570.00	44.38	4.07	48.45	54.00	5.55	Average
3	17355.00	49.38	7.37	56.75	68.20	11.45	Peak
4	17997.70	47.58	11.51	59.09	74.00	14.91	Peak
5	17997.70	36.24	11.51	47.75	54.00	6.25	Average

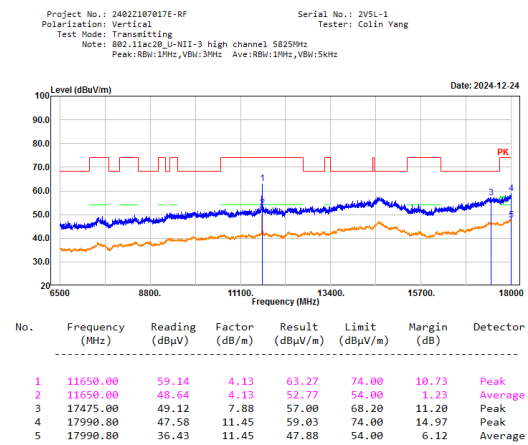
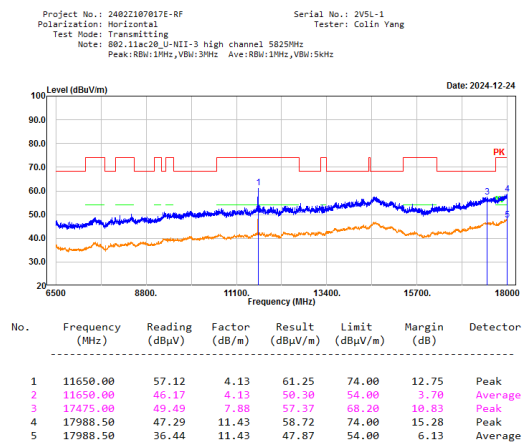
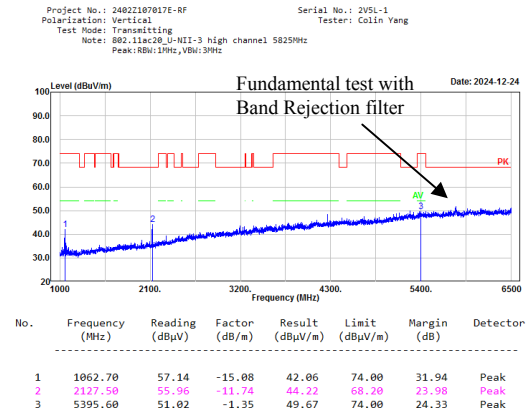


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	11570.00	57.26	4.07	61.33	74.00	12.67	Peak
2	11570.00	47.00	4.07	51.07	54.00	2.93	Average
3	17355.00	49.64	7.37	57.01	68.20	11.19	Peak
4	17990.80	47.42	11.45	58.87	74.00	15.13	Peak
5	17990.80	36.24	11.45	47.69	54.00	6.31	Average

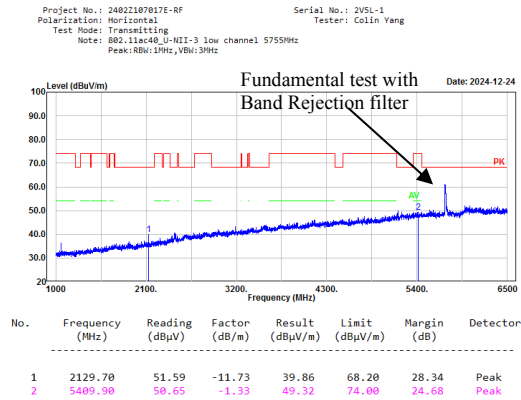
802.11ac20 mode, High Channel, Horizontal



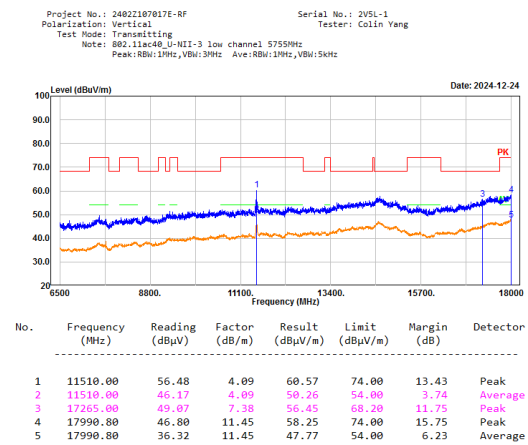
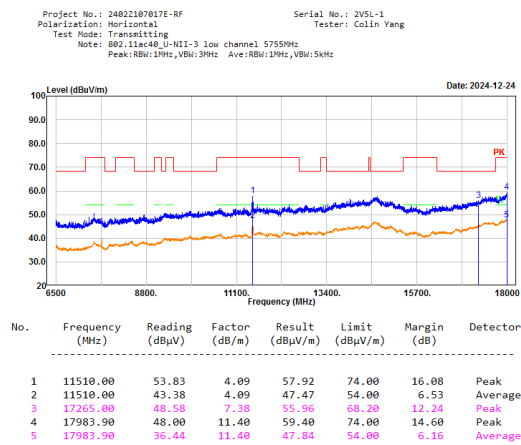
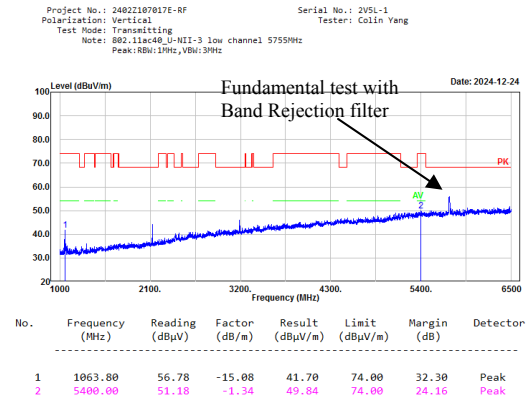
802.11ac20 mode, High Channel, Vertical



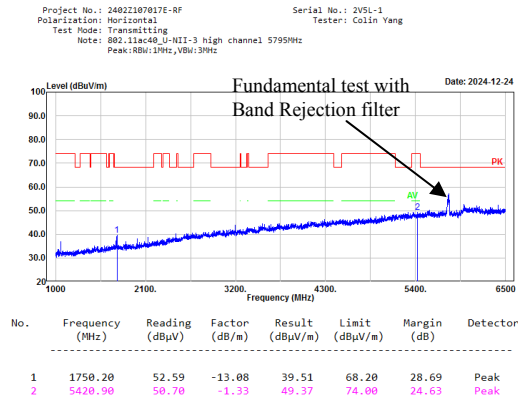
802.11ac40 mode, Low Channel, Horizontal



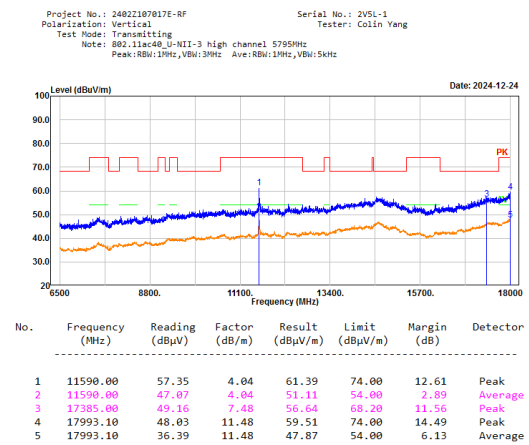
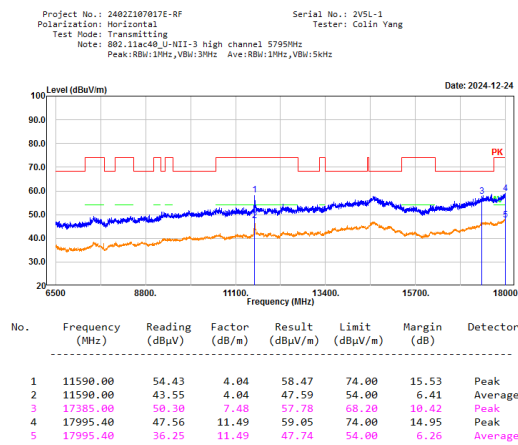
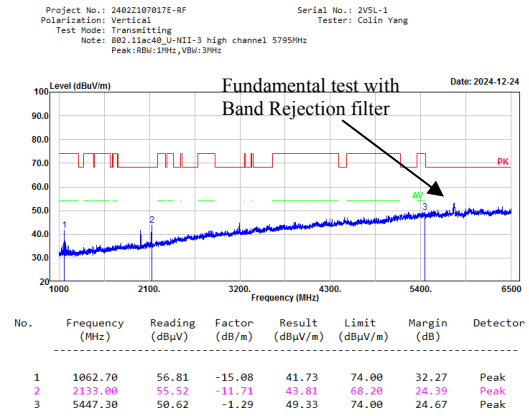
802.11ac40 mode, Low Channel, Vertical



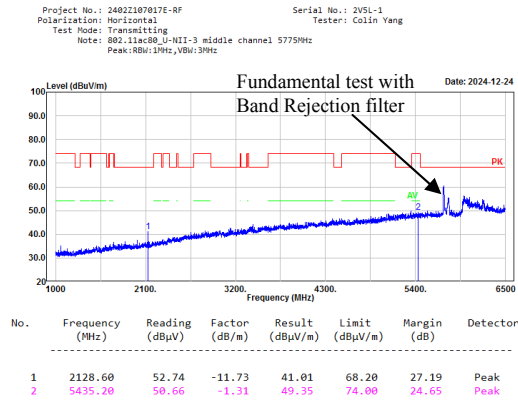
802.11ac40 mode, High Channel, Horizontal



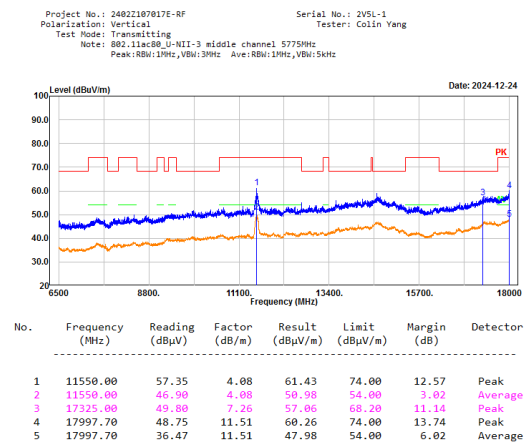
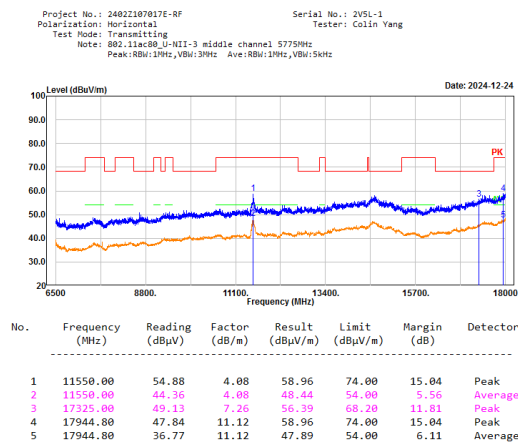
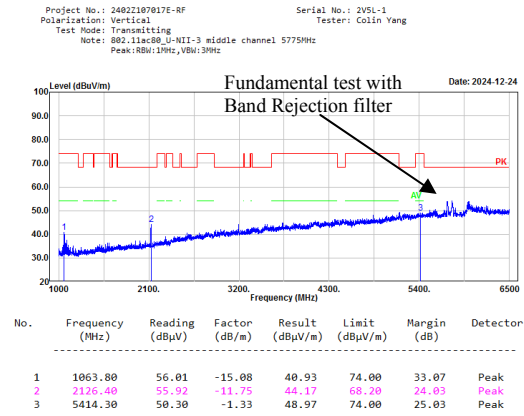
802.11ac40 mode, High Channel, Vertical



802.11ac80 mode, Middle Channel, Horizontal

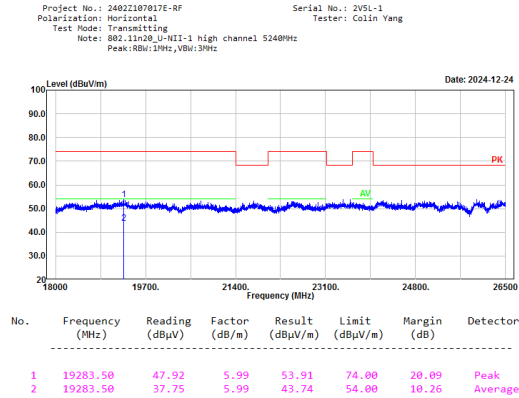
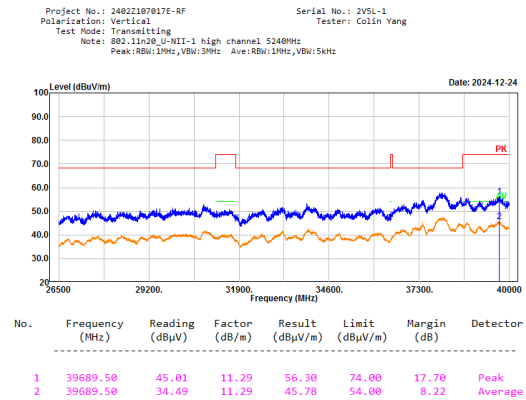
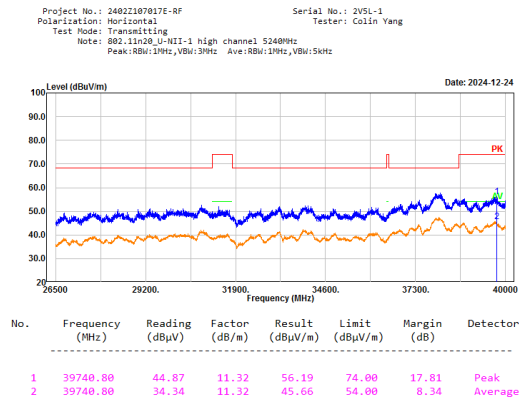
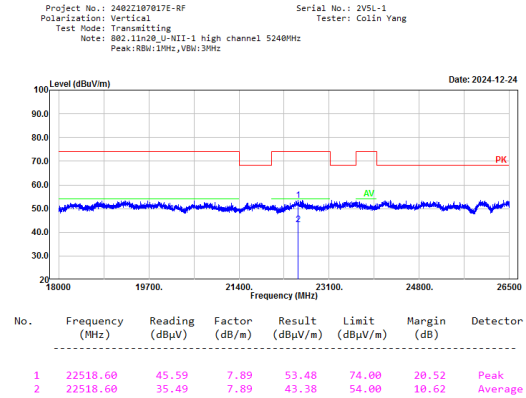


802.11ac80 mode, Middle Channel, Vertical



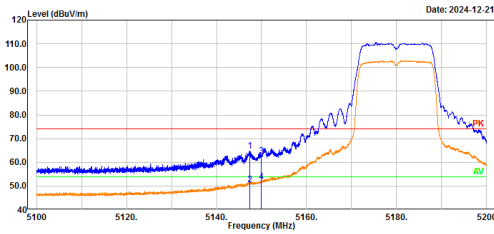
18-40GHz:

No Emission was detected in the range 18-40GHz, test was performed on the mode and channel which with the maximum power.

802.11n20 mode, 5240MHz, Horizontal**802.11n20 mode, 5240MHz, Vertical**

**Bandedge:
5150-5250MHz:
Chain 0****802.11a mode, 5180MHz, Horizontal**

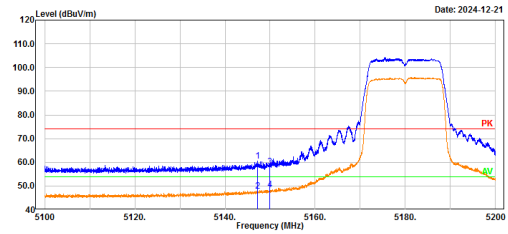
Project No.: 2402Z107017E-RF Serial No.: 2V5L-1
Polarization: Horizontal Tester: Colin Yang
Test Mode: Transmitting
Note: 802.11a_U-NII-1 low channel 5180MHz Chain0
Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5147.38	58.09	6.52	64.61	74.00	9.39	Peak
2	5147.38	44.12	6.52	50.64	54.00	3.36	Average
3	5150.00	56.18	6.53	62.71	74.00	11.29	Peak
4	5150.00	45.39	6.53	51.92	54.00	2.08	Average

802.11a mode, 5180MHz, Vertical

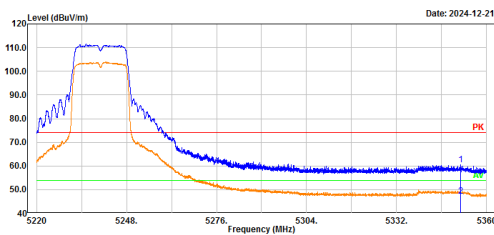
Project No.: 2402Z107017E-RF Serial No.: 2V5L-1
Polarization: Vertical Tester: Colin Yang
Test Mode: Transmitting
Note: 802.11a_U-NII-1 low channel 5180MHz Chain0
Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5147.20	53.93	6.52	60.45	74.00	13.55	Peak
2	5147.20	41.32	6.52	47.84	54.00	6.16	Average
3	5150.00	51.62	6.53	58.15	74.00	15.85	Peak
4	5150.00	41.98	6.53	48.51	54.00	5.49	Average

802.11a mode, 5240MHz, Horizontal

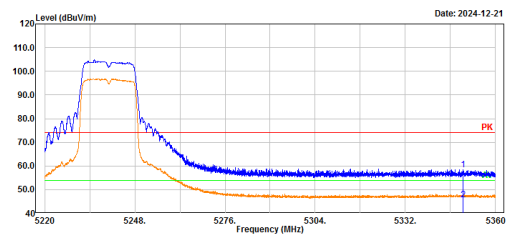
Project No.: 2402Z107017E-RF Serial No.: 2V5L-1
Polarization: Horizontal Tester: Colin Yang
Test Mode: Transmitting
Note: 802.11a_U-NII-1 high channel 5240MHz Chain0
Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5351.88	53.27	7.11	60.38	74.00	13.62	Peak
2	5351.88	40.19	7.11	47.30	54.00	6.70	Average

802.11a mode, 5240MHz, Vertical

Project No.: 2402Z107017E-RF Serial No.: 2V5L-1
Polarization: Vertical Tester: Colin Yang
Test Mode: Transmitting
Note: 802.11a_U-NII-1 high channel 5240MHz Chain0
Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz



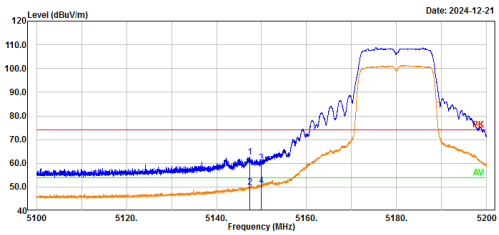
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5350.00	51.37	7.10	58.47	74.00	15.53	Peak
2	5350.00	38.75	7.10	45.85	54.00	8.15	Average

Chain 1

802.11a mode, 5180MHz, Horizontal

Project No.: 2402Z107017E-RF
Polarization: Horizontal
Test Mode: Transmitting
Note: 802.11a_U-NII-1 low channel 5180MHz Chain1
Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz

Serial No.: 2VSL-1
Tester: Colin Yang

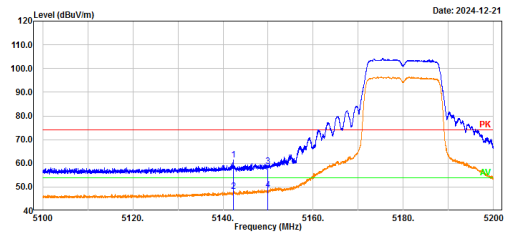


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5147.42	55.97	6.52	62.49	74.00	11.51	Peak
2	5147.42	43.36	6.52	49.88	54.00	4.12	Average
3	5150.00	53.57	6.53	60.10	74.00	13.90	Peak
4	5150.00	43.98	6.53	50.51	54.00	3.49	Average

802.11a mode, 5180MHz, Vertical

Project No.: 2402Z107017E-RF
Polarization: Vertical
Test Mode: Transmitting
Note: 802.11a_U-NII-1 low channel 5180MHz Chain1
Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz

Serial No.: 2VSL-1
Tester: Colin Yang

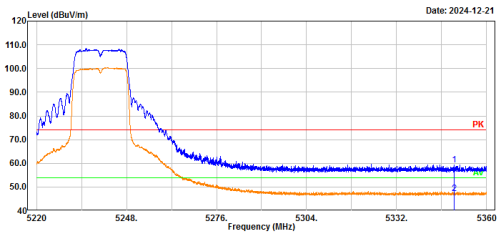


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5142.28	54.88	6.50	61.38	74.00	12.62	Peak
2	5142.28	41.77	6.50	48.27	54.00	5.73	Average
3	5150.00	52.23	6.53	58.76	74.00	15.24	Peak
4	5150.00	42.23	6.53	48.76	54.00	5.24	Average

802.11a mode, 5240MHz, Horizontal

Project No.: 2402Z107017E-RF
Polarization: Horizontal
Test Mode: Transmitting
Note: 802.11a_U-NII-1 high channel 5240MHz Chain1
Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz

Serial No.: 2VSL-1
Tester: Colin Yang

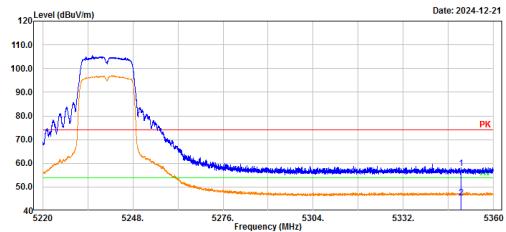


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5350.00	52.22	7.10	59.32	74.00	14.68	Peak
2	5350.00	40.03	7.10	47.13	54.00	6.87	Average

802.11a mode, 5240MHz, Vertical

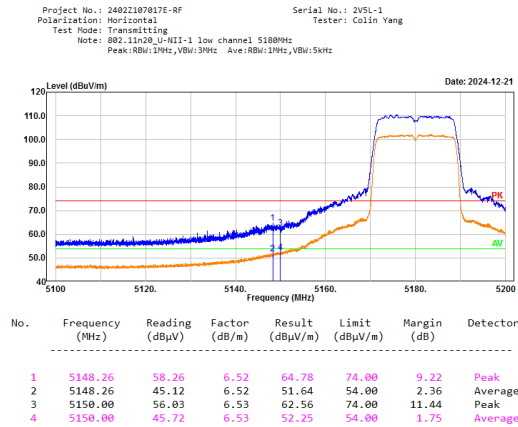
Project No.: 2402Z107017E-RF
Polarization: Vertical
Test Mode: Transmitting
Note: 802.11a_U-NII-1 high channel 5240MHz Chain1
Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz

Serial No.: 2VSL-1
Tester: Colin Yang

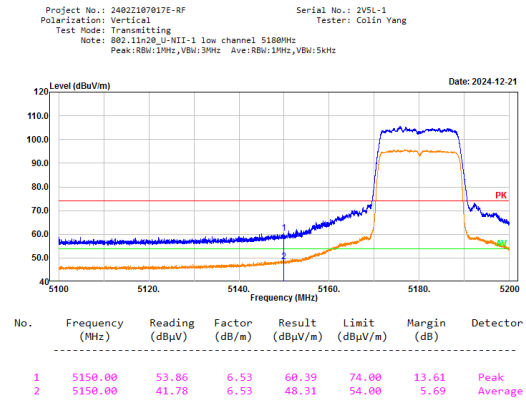


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5350.00	50.63	7.10	57.73	74.00	16.27	Peak
2	5350.00	38.23	7.10	45.33	54.00	8.67	Average

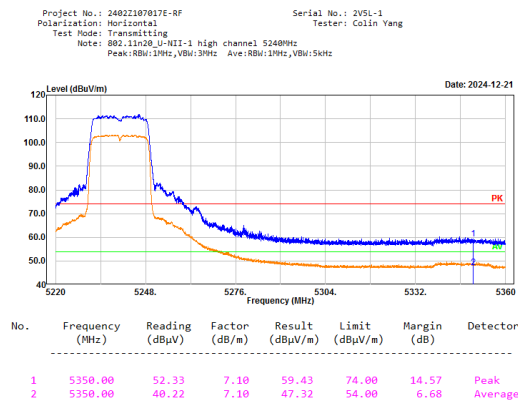
802.11n20 mode, 5180MHz, Horizontal



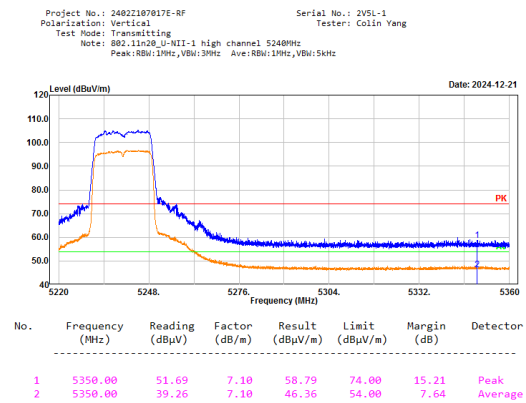
802.11n20 mode, 5180MHz, Vertical



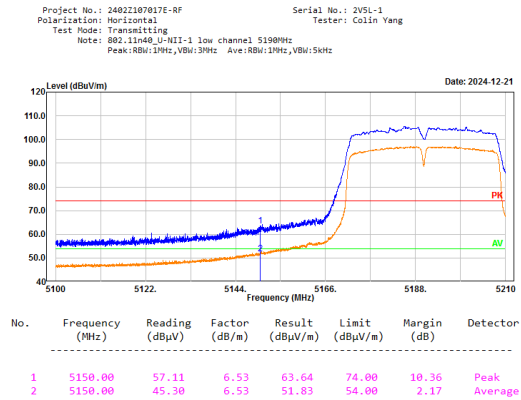
802.11n20 mode, 5240MHz, Horizontal



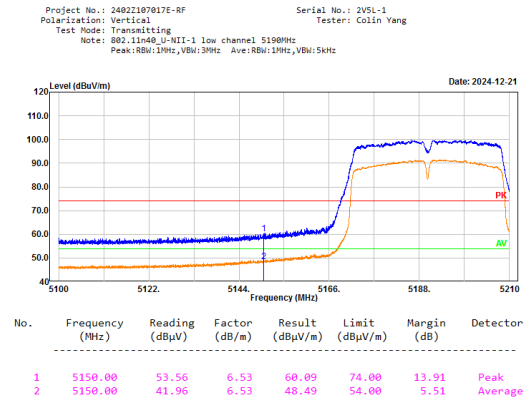
802.11n20 mode, 5240MHz, Vertical



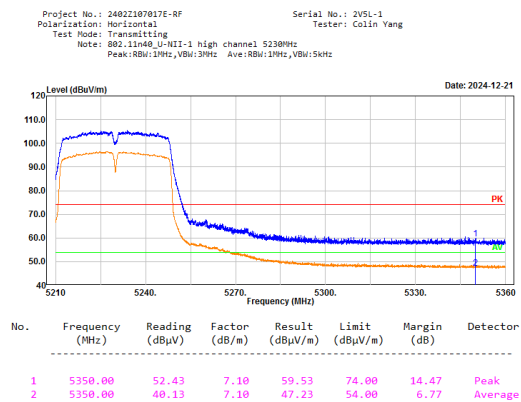
802.11n40 mode, 5190MHz, Horizontal



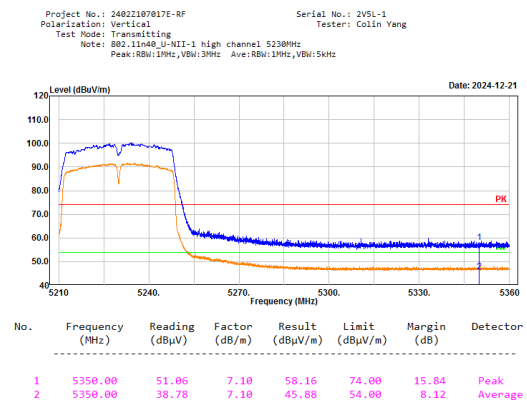
802.11n40 mode, 5190MHz, Vertical



802.11n40 mode, 5230MHz, Horizontal



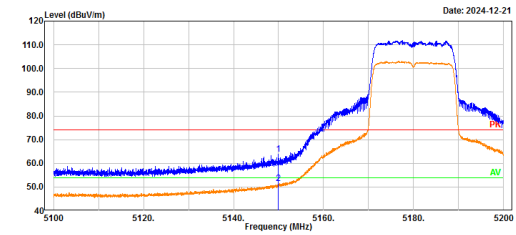
802.11n40 mode, 5230MHz, Vertical



802.11ac20 mode, 5180MHz, Horizontal

Project No.: 2402Z107017E-RF
Polarization: Horizontal
Test Mode: Transmitting
Note: 802.11ac20 U-NII-1 low channel 5180MHz
Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz

Serial No.: 2V5L-1
Tester: Nat Zhou

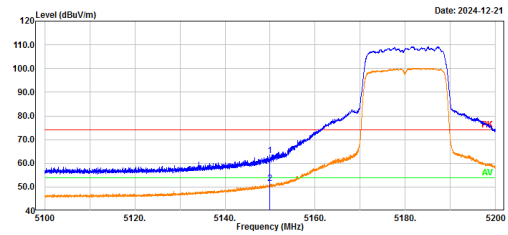


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5150.00	57.46	6.53	63.99	74.00	10.01	Peak
2	5150.00	44.93	6.53	51.46	54.00	2.54	Average

802.11ac20 mode, 5180MHz, Vertical

Project No.: 2402Z107017E-RF
Polarization: Vertical
Test Mode: Transmitting
Note: 802.11ac20 U-NII-1 low channel 5180MHz
Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz

Serial No.: 2V5L-1
Tester: Nat Zhou

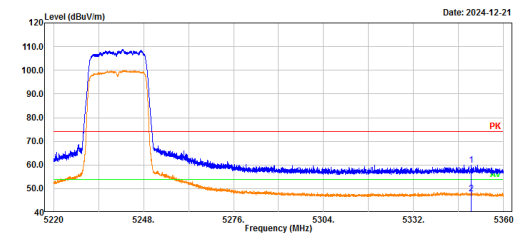


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5150.00	56.78	6.53	63.31	74.00	10.69	Peak
2	5150.00	44.94	6.53	51.47	54.00	2.53	Average

802.11ac20 mode, 5240MHz, Horizontal

Project No.: 2402Z107017E-RF
Polarization: Horizontal
Test Mode: Transmitting
Note: 802.11ac20 U-NII-1 high channel 5240MHz
Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz

Serial No.: 2V5L-1
Tester: Nat Zhou

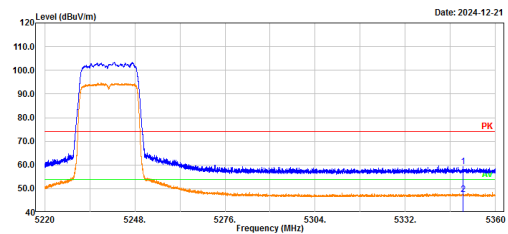


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5350.00	52.87	7.10	59.97	74.00	14.03	Peak
2	5350.00	40.78	7.10	47.88	54.00	6.12	Average

802.11ac20 mode, 5240MHz, Vertical

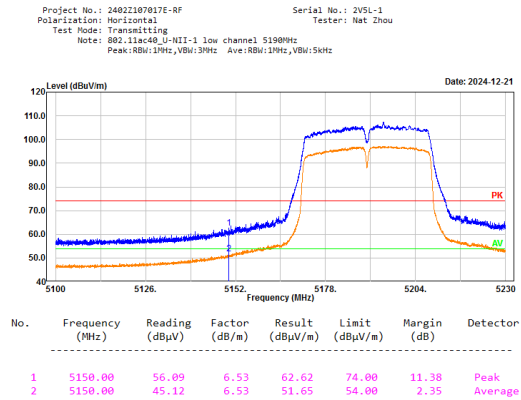
Project No.: 2402Z107017E-RF
Polarization: Vertical
Test Mode: Transmitting
Note: 802.11ac20 U-NII-1 high channel 5240MHz
Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz

Serial No.: 2V5L-1
Tester: Nat Zhou

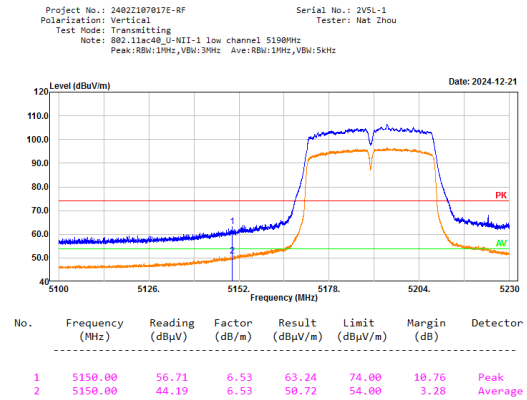


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5350.00	52.08	7.10	59.18	74.00	14.82	Peak
2	5350.00	40.59	7.10	47.69	54.00	6.31	Average

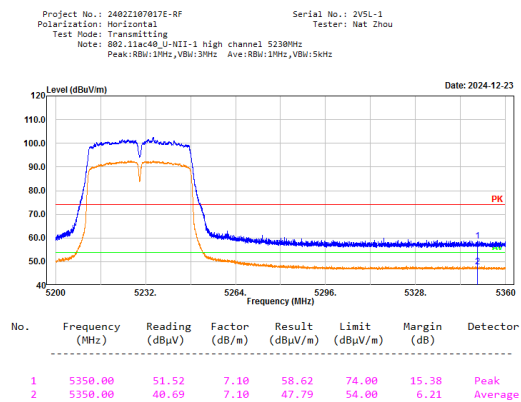
802.11ac40 mode, 5190MHz, Horizontal



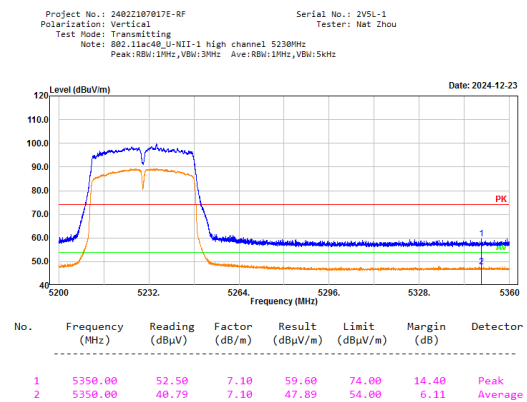
802.11ac40 mode, 5190MHz, Vertical



802.11ac40 mode, 5230MHz, Horizontal

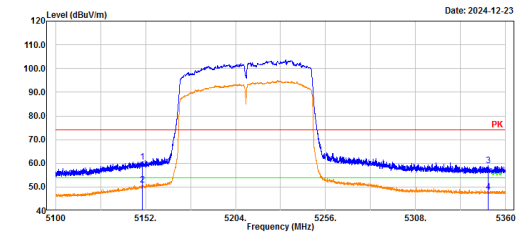


802.11ac40 mode, 5230MHz, Vertical



802.11ac80 mode, 5210MHz, Horizontal

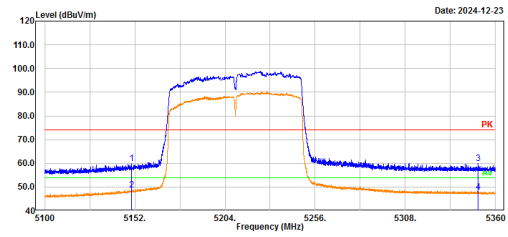
Project No.: 2402Z107017E-RF Serial No.: 2V5L-1
Polarization: Horizontal Tester: Nat Zhou
Test Mode: Transmitting
Note: 802.11ac80_U-NII-1 middle channel 5210MHz
Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz



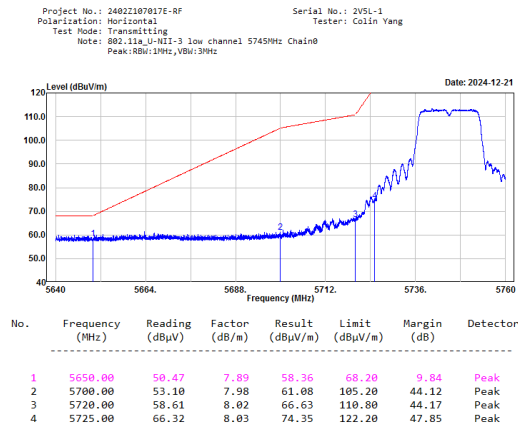
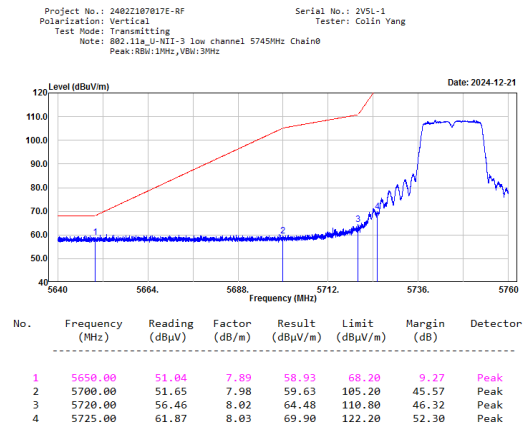
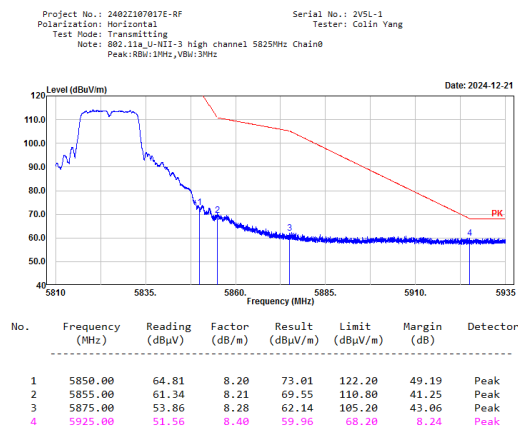
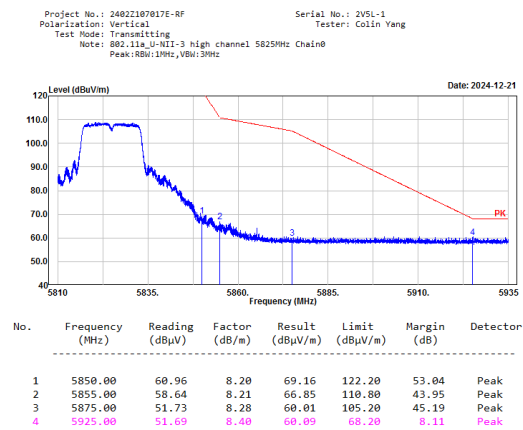
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5150.00	54.06	6.53	60.59	74.00	13.41	Peak
2	5150.00	44.36	6.53	50.89	54.00	3.11	Average
3	5350.00	52.02	7.10	59.12	74.00	14.88	Peak
4	5350.00	40.87	7.10	47.97	54.00	6.03	Average

802.11ac80 mode, 5210MHz, Vertical

Project No.: 2402Z107017E-RF Serial No.: 2V5L-1
Polarization: Vertical Tester: Nat Zhou
Test Mode: Transmitting
Note: 802.11ac80_U-NII-1 middle channel 5210MHz
Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz

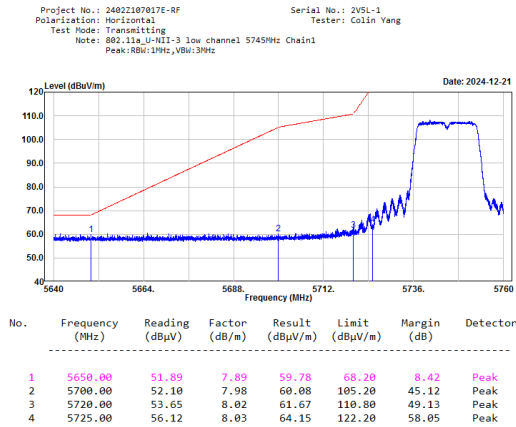


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5150.00	53.45	6.53	59.98	74.00	14.02	Peak
2	5150.00	42.36	6.53	48.89	54.00	5.11	Average
3	5350.00	52.77	7.10	59.87	74.00	14.13	Peak
4	5350.00	40.77	7.10	47.87	54.00	6.13	Average

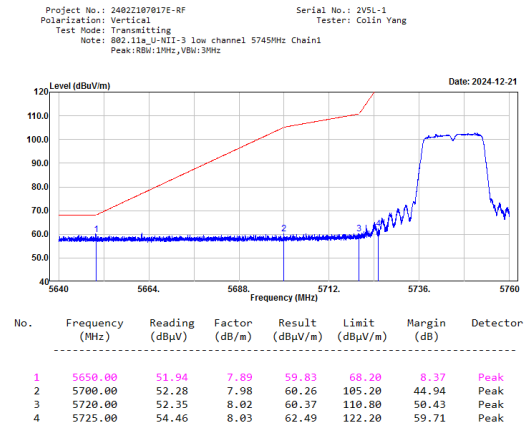
**5725-5850MHz:
Chain 0****802.11a mode, 5745MHz, Horizontal****802.11a mode, 5745MHz, Vertical****802.11a mode, 5825MHz, Horizontal****802.11a mode, 5825MHz, Vertical**

Chain 1

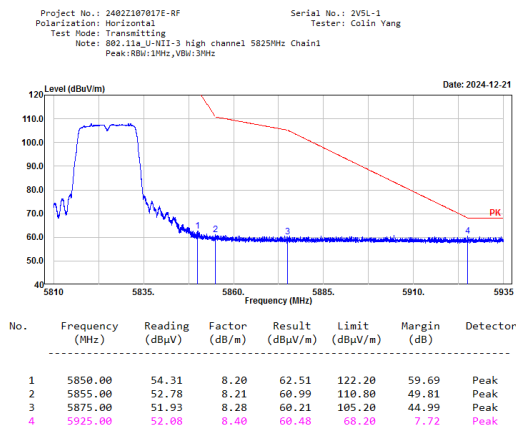
802.11a mode, 5745MHz, Horizontal



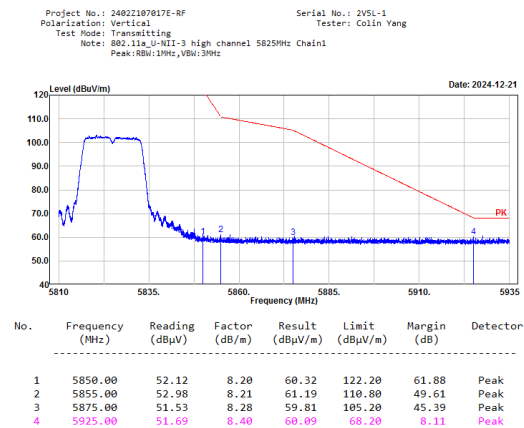
802.11a mode, 5745MHz, Vertical



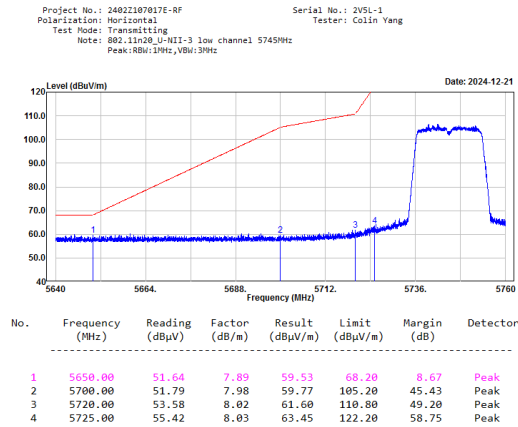
802.11a mode, 5825MHz, Horizontal



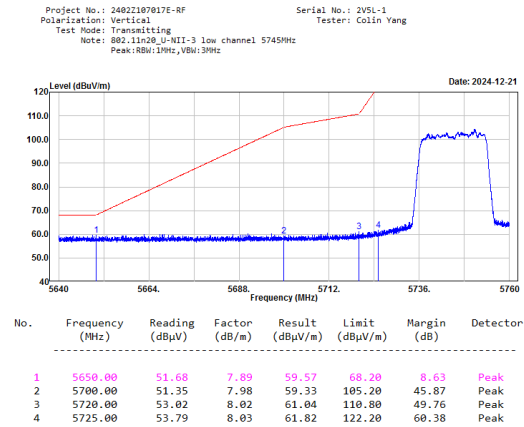
802.11a mode, 5825MHz, Vertical



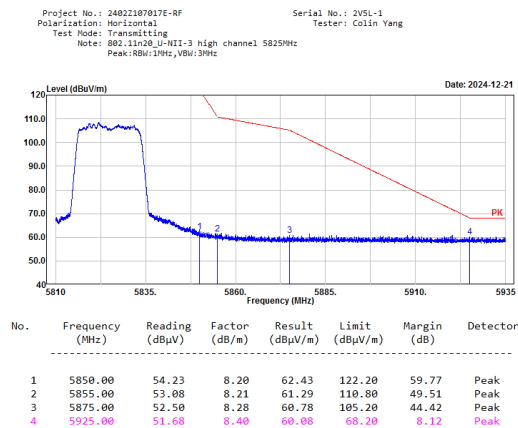
802.11n20 mode, 5745MHz, Horizontal



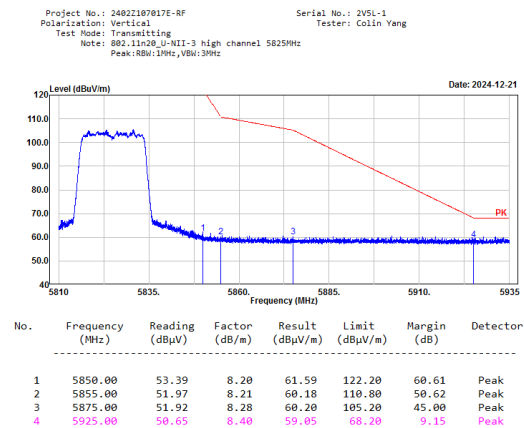
802.11n20 mode, 5745MHz, Vertical



802.11n20 mode, 5825MHz, Horizontal



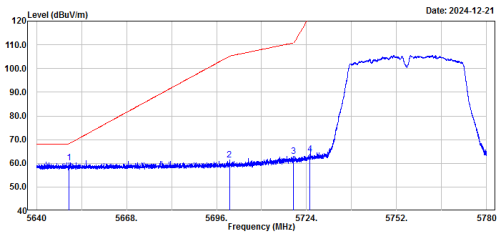
802.11n20 mode, 5825MHz, Vertical



802.11n40 mode, 5755MHz, Horizontal

Project No.: 2402Z107017E-RF
Polarization: Horizontal
Test Mode: Transmitting
Note: 802.11n40_U-NII-3 low channel 5755MHz
Peak:RBW:1MHz,VBW:3MHz

Serial No.: 2VSL-1
Tester: Colin Yang

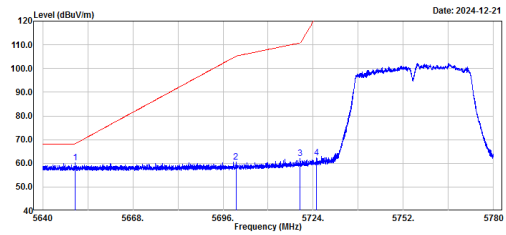


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5650.00	52.19	7.89	60.08	68.20	8.12	Peak
2	5700.00	53.37	7.98	61.35	105.20	43.85	Peak
3	5720.00	54.96	8.02	62.98	110.80	47.82	Peak
4	5725.00	55.82	8.03	63.85	122.20	58.35	Peak

802.11n40 mode, 5755MHz, Vertical

Project No.: 2402Z107017E-RF
Polarization: Vertical
Test Mode: Transmitting
Note: 802.11n40_U-NII-3 low channel 5755MHz
Peak:RBW:1MHz,VBW:3MHz

Serial No.: 2VSL-1
Tester: Colin Yang

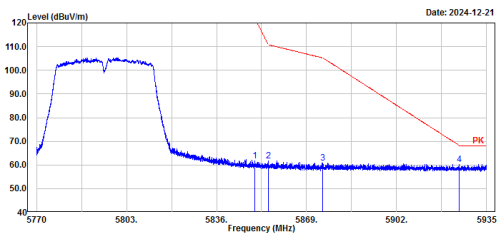


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5650.00	52.29	7.89	60.18	68.20	8.02	Peak
2	5700.00	52.63	7.98	60.61	105.20	44.59	Peak
3	5720.00	54.08	8.02	62.10	110.80	48.70	Peak
4	5725.00	54.27	8.03	62.30	122.20	59.90	Peak

802.11n40 mode, 5795MHz, Horizontal

Project No.: 2402Z107017E-RF
Polarization: Horizontal
Test Mode: Transmitting
Note: 802.11n40_U-NII-3 high channel 5795MHz
Peak:RBW:1MHz,VBW:3MHz

Serial No.: 2VSL-1
Tester: Colin Yang

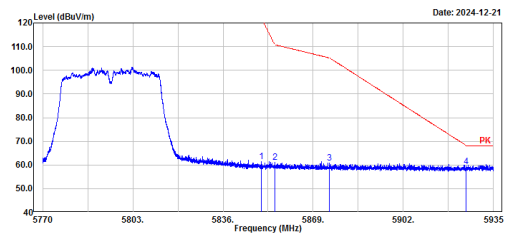


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5850.00	53.39	8.20	61.59	122.20	60.61	Peak
2	5855.00	53.41	8.21	61.62	110.80	49.18	Peak
3	5875.00	52.48	8.28	60.76	105.20	44.44	Peak
4	5925.00	51.84	8.40	60.24	68.20	7.96	Peak

802.11n40 mode, 5795MHz, Vertical

Project No.: 2402Z107017E-RF
Polarization: Vertical
Test Mode: Transmitting
Note: 802.11n40_U-NII-3 high channel 5795MHz
Peak:RBW:1MHz,VBW:3MHz

Serial No.: 2VSL-1
Tester: Colin Yang

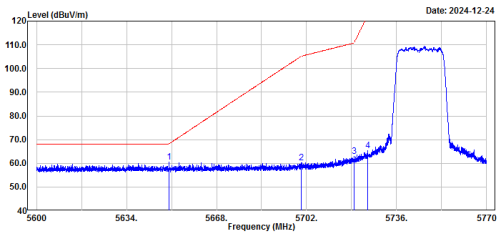


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5850.00	53.33	8.20	61.53	122.20	60.67	Peak
2	5855.00	53.00	8.21	61.21	110.80	49.59	Peak
3	5875.00	52.50	8.28	60.78	105.20	44.42	Peak
4	5925.00	50.98	8.40	59.38	68.20	8.82	Peak

802.11ac20 mode, 5745MHz, Horizontal

Project No.: 2402Z107017E-RF
Polarization: Horizontal
Test Mode: Transmitting
Note: 802.11ac20 U-NII-3 low channel 5745MHz
Peak:RBW:1MHz,VBW:3MHz

Serial No.: 2VSL-1
Tester: Colin Yang

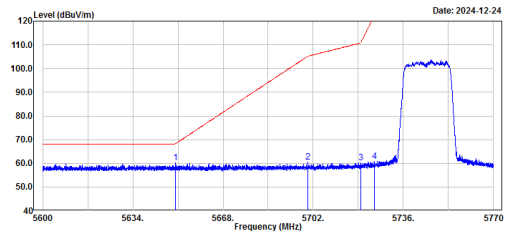


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5650.00	52.71	7.89	60.60	68.20	7.60	Peak
2	5700.00	52.18	7.98	60.16	105.20	45.04	Peak
3	5720.00	54.68	8.02	62.90	110.80	47.90	Peak
4	5725.00	57.44	8.03	65.47	122.20	56.73	Peak

802.11nac0 mode, 5745MHz, Vertical

Project No.: 2402Z107017E-RF
Polarization: Vertical
Test Mode: Transmitting
Note: 802.11ac20 U-NII-3 low channel 5745MHz
Peak:RBW:1MHz,VBW:3MHz

Serial No.: 2VSL-1
Tester: Colin Yang

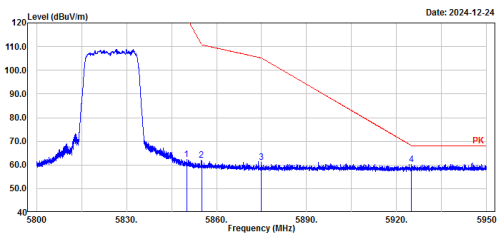


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5650.00	52.28	7.89	60.17	68.20	8.03	Peak
2	5700.00	52.41	7.98	60.39	105.20	44.81	Peak
3	5720.00	52.31	8.02	60.33	110.80	50.47	Peak
4	5725.00	52.73	8.03	60.76	122.20	61.44	Peak

802.11ac20 mode, 5825MHz, Horizontal

Project No.: 2402Z107017E-RF
Polarization: Horizontal
Test Mode: Transmitting
Note: 802.11ac20 U-NII-3 high channel 5825MHz
Peak:RBW:1MHz,VBW:3MHz

Serial No.: 2VSL-1
Tester: Colin Yang

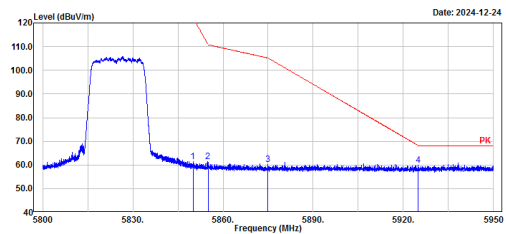


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5850.00	54.02	8.20	62.22	122.20	59.98	Peak
2	5855.00	53.84	8.21	62.05	110.80	48.75	Peak
3	5875.00	52.89	8.28	61.17	105.20	44.03	Peak
4	5925.00	51.95	8.40	60.35	68.20	7.85	Peak

802.11ac20 mode, 5825MHz, Vertical

Project No.: 2402Z107017E-RF
Polarization: Vertical
Test Mode: Transmitting
Note: 802.11ac20 U-NII-3 high channel 5825MHz
Peak:RBW:1MHz,VBW:3MHz

Serial No.: 2VSL-1
Tester: Colin Yang

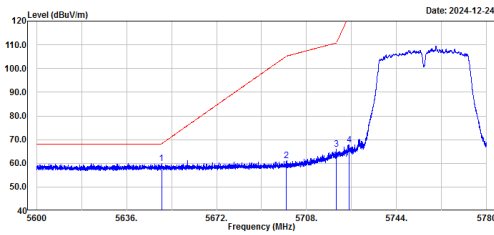


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5850.00	53.15	8.20	61.35	122.20	60.85	Peak
2	5855.00	53.24	8.21	61.45	110.80	49.35	Peak
3	5875.00	52.09	8.28	60.37	105.20	44.83	Peak
4	5925.00	51.53	8.40	59.93	68.20	8.27	Peak

802.11ac40 mode, 5755MHz, Horizontal

Project No.: 2402Z107017E-RF
Polarization: Horizontal
Test Mode: Transmitting
Note: 802.11ac40 U-NII-3 low channel 5755MHz
Peak:RBW:1MHz,VBW:3MHz

Serial No.: 2VSL-1
Tester: Colin Yang

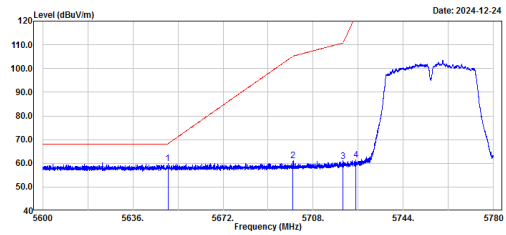


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5650.00	51.93	7.89	59.82	68.20	8.38	Peak
2	5700.00	53.19	7.98	61.17	105.20	44.03	Peak
3	5720.00	57.94	8.02	65.96	110.80	44.84	Peak
4	5725.00	59.70	8.03	67.73	122.20	54.47	Peak

802.11ac40 mode, 5755MHz, Vertical

Project No.: 2402Z107017E-RF
Polarization: Vertical
Test Mode: Transmitting
Note: 802.11ac40 U-NII-3 low channel 5755MHz
Peak:RBW:1MHz,VBW:3MHz

Serial No.: 2VSL-1
Tester: Colin Yang

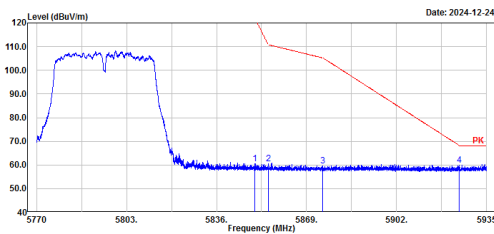


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5650.00	51.91	7.89	59.80	68.20	8.40	Peak
2	5700.00	53.17	7.98	61.15	105.20	44.05	Peak
3	5720.00	52.71	8.02	60.73	110.80	50.07	Peak
4	5725.00	53.28	8.03	61.31	122.20	60.89	Peak

802.11ac40 mode, 5795MHz, Horizontal

Project No.: 2402Z107017E-RF
Polarization: Horizontal
Test Mode: Transmitting
Note: 802.11ac40 U-NII-3 high channel 5795MHz
Peak:RBW:1MHz,VBW:3MHz

Serial No.: 2VSL-1
Tester: Colin Yang

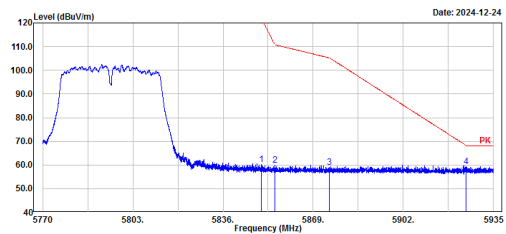


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5850.00	52.18	8.20	60.38	122.20	61.82	Peak
2	5855.00	52.44	8.21	60.65	110.80	50.15	Peak
3	5875.00	51.44	8.28	59.72	105.20	45.48	Peak
4	5925.00	51.50	8.40	59.90	68.20	8.30	Peak

802.11ac40 mode, 5795MHz, Vertical

Project No.: 2402Z107017E-RF
Polarization: Vertical
Test Mode: Transmitting
Note: 802.11ac40 U-NII-3 high channel 5795MHz
Peak:RBW:1MHz,VBW:3MHz

Serial No.: 2VSL-1
Tester: Colin Yang

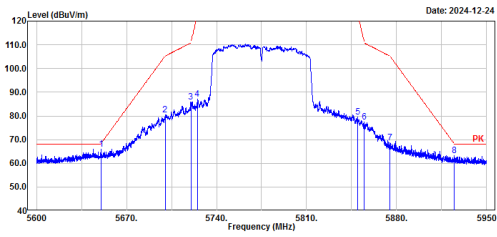


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5850.00	51.92	8.20	60.12	122.20	62.08	Peak
2	5855.00	51.62	8.21	59.83	110.80	50.97	Peak
3	5875.00	50.83	8.28	59.11	105.20	46.09	Peak
4	5925.00	50.88	8.40	59.28	68.20	8.92	Peak

802.11ac80 mode, 5775MHz, Horizontal

Project No.: 2402Z107017E-RF
Polarization: Horizontal
Test Mode: Transmitting
Note: 802.11ac80_U-NII-3 middle channel 5775MHz
Peak:RBW:1MHz,VBW:3MHz

Serial No.: 2V5L-1
Tester: Colin Yang

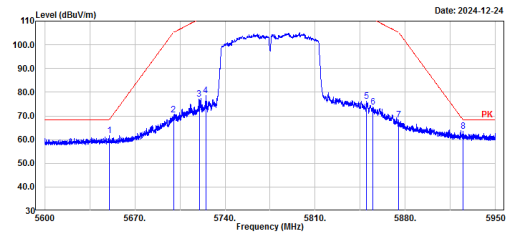


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5650.00	58.05	7.89	65.94	68.20	2.26	Peak
2	5700.00	72.52	7.98	80.50	105.20	24.70	Peak
3	5720.00	77.78	8.02	85.80	110.80	25.00	Peak
4	5725.00	79.19	8.03	87.22	122.20	34.98	Peak
5	5850.00	71.41	8.20	79.61	122.20	42.59	Peak
6	5855.00	69.29	8.21	77.50	110.80	33.30	Peak
7	5875.00	60.33	8.28	68.61	105.20	36.59	Peak
8	5925.00	54.70	8.40	63.10	68.20	5.10	Peak

802.11ac80 mode, 5775MHz, Vertical

Project No.: 2402Z107017E-RF
Polarization: Vertical
Test Mode: Transmitting
Note: 802.11ac80_U-NII-3 middle channel 5775MHz
Peak:RBW:1MHz,VBW:3MHz

Serial No.: 2V5L-1
Tester: Colin Yang



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5650.00	53.79	7.89	61.68	68.20	6.52	Peak
2	5700.00	62.54	7.98	70.52	105.20	34.68	Peak
3	5720.00	69.04	8.02	77.06	110.80	33.74	Peak
4	5725.00	70.51	8.03	78.54	122.20	43.66	Peak
5	5850.00	67.88	8.20	76.08	122.20	46.12	Peak
6	5855.00	65.44	8.21	73.65	110.80	37.15	Peak
7	5875.00	60.10	8.28	68.38	105.20	36.82	Peak
8	5925.00	54.99	8.40	63.39	68.20	4.81	Peak

5.3 Emission Bandwidth

Serial No.:	2V5L-2	Test Date:	2024/12/28~2025/1/8
Test Site:	RF	Test Mode:	Transmitting
Tester:	Tower Qing	Test Result:	Pass

Environmental Conditions:

Temperature: (°C):	22.7~23.5	Relative Humidity: (%)	28~34	ATM Pressure: (kPa)	101.4~102.8
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Coaxial Attenuator	10dB	F-08-EM512	2024/06/13	2025/06/12
R&S	Spectrum Analyzer	FSV40	101461	2024/09/05	2025/09/04
R&S	Spectrum Analyzer	FSV40	101589	2024/09/05	2025/09/04

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

Test Data:

Note: Test only was performed at Chain 0.

**26dB Emission Bandwidth
5150-5250MHz**

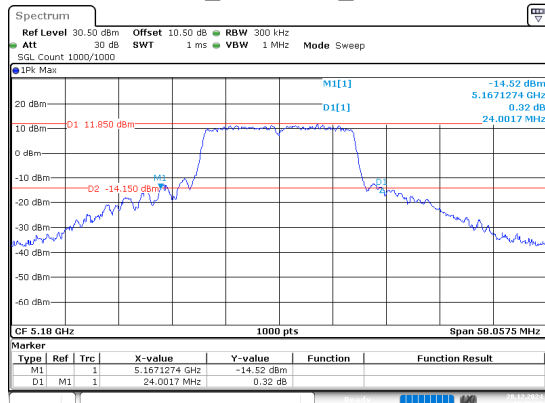
Mode	Antenna	Test Frequency (MHz)	Result (MHz)
802.11a	Chain 0	5180	24.002
		5200	23.246
		5240	23.931
802.11n20	Chain 0	5180	26.975
		5200	25.807
		5240	30.168
802.11n40	Chain 0	5190	41.942
		5230	42.042
802.11ac20	Chain 0	5180	19.470
		5200	19.520
		5240	19.520
802.11ac40	Chain 0	5190	40.741
		5230	40.841
802.11ac80	Chain 0	5210	82.282

**6dB Emission Bandwidth
5725-5850MHz**

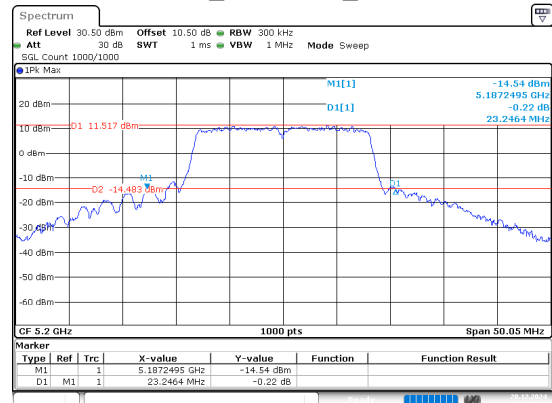
Mode	Antenna	Test Frequency (MHz)	Result (MHz)	Limit (MHz)
802.11a	Chain 0	5745	16.467	0.5
		5785	16.467	0.5
		5825	16.517	0.5
802.11n20	Chain 0	5745	17.768	0.5
		5785	17.768	0.5
		5825	17.768	0.5
802.11n40	Chain 0	5755	36.537	0.5
		5795	36.637	0.5
802.11ac20	Chain 0	5745	17.818	0.5
		5785	17.868	0.5
		5825	17.818	0.5
802.11ac40	Chain 0	5755	36.637	0.5
		5795	36.637	0.5
802.11ac80	Chain 0	5775	76.677	0.5

5150-5250MHz

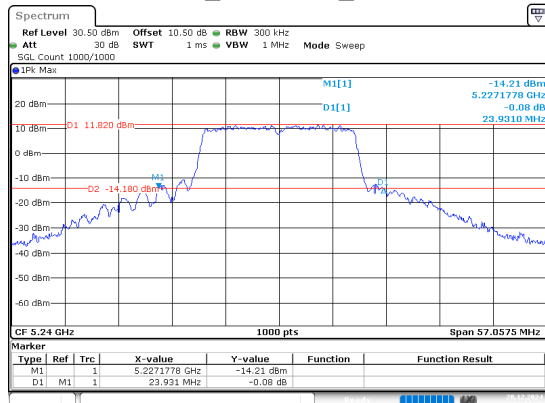
802.11a_5180MHz_Chain 0



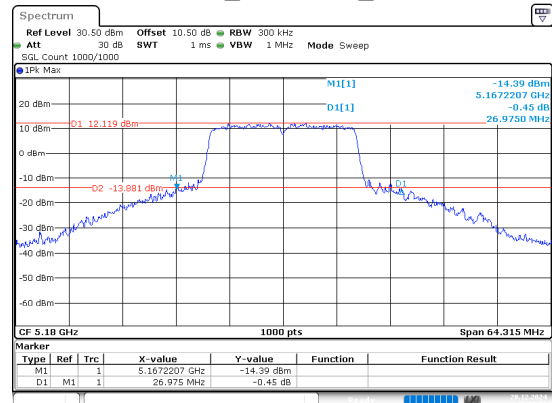
802.11a_5200MHz_Chain 0



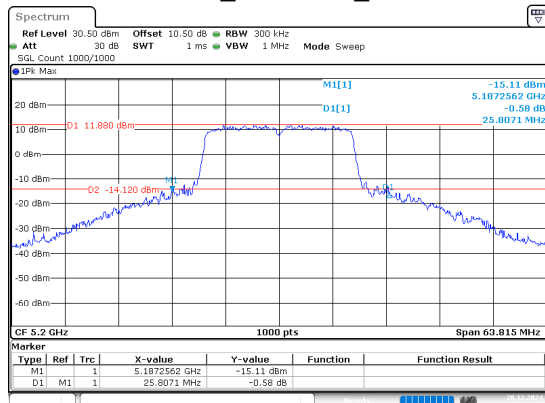
802.11a_5240MHz_Chain 0



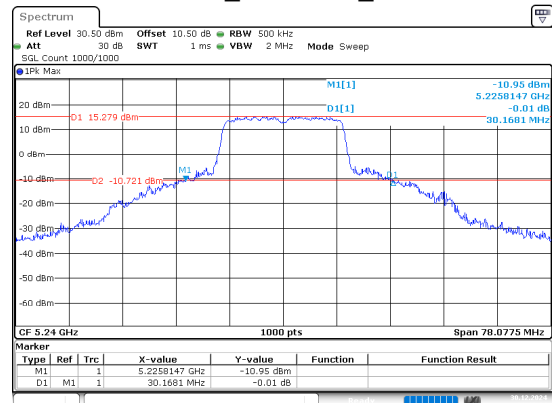
802.11n20_5180MHz_Chain 0



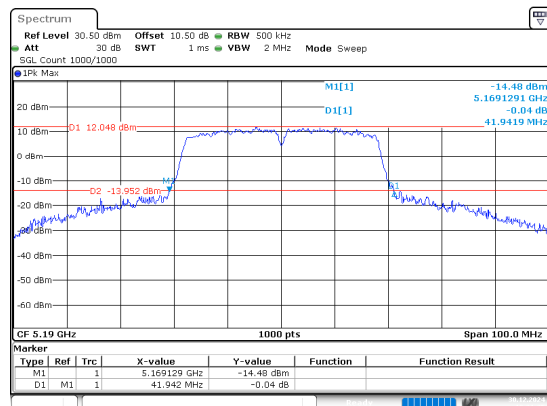
802.11n20_5200MHz_Chain 0



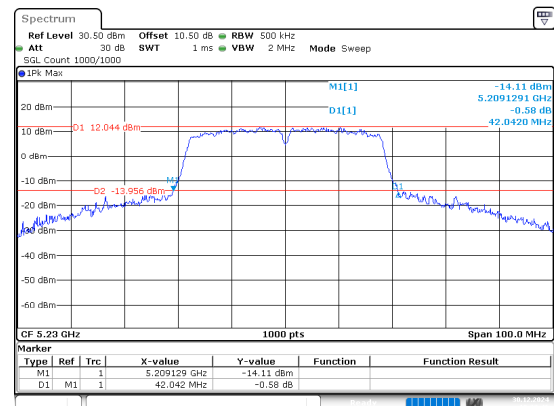
802.11n20_5240MHz_Chain 0



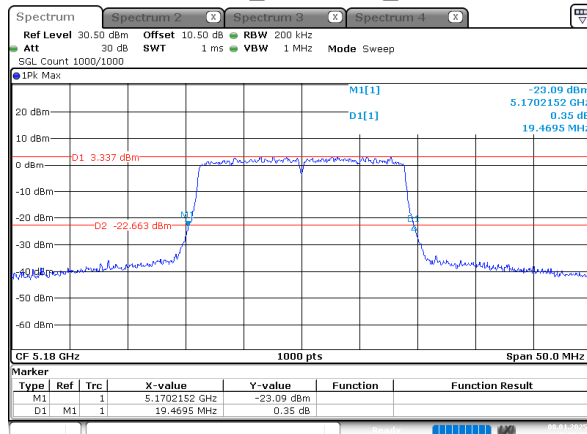
802.11n40_5190MHz_Chain 0



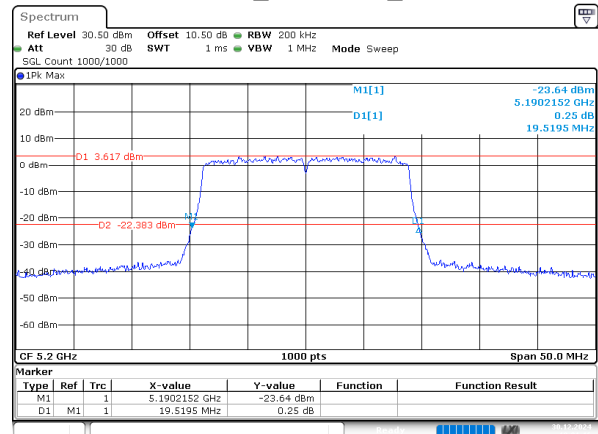
802.11n40_5230MHz_Chain 0



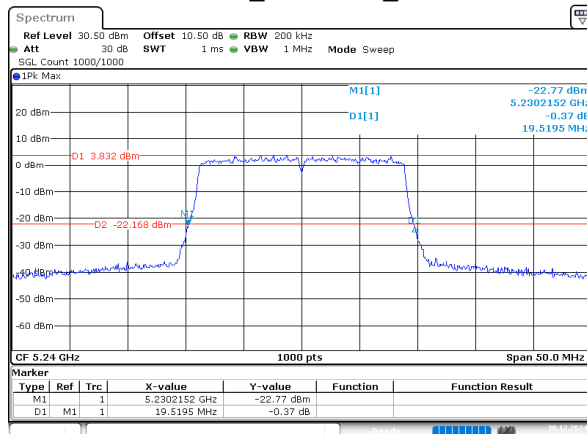
802.11ac20_5180MHz_Chain 0



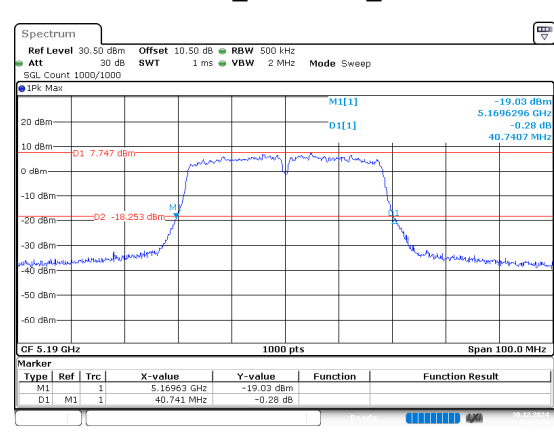
802.11ac20_5200MHz_Chain 0



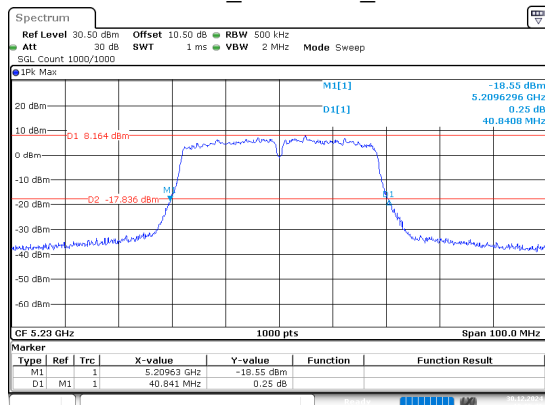
802.11ac20_5240MHz_Chain 0



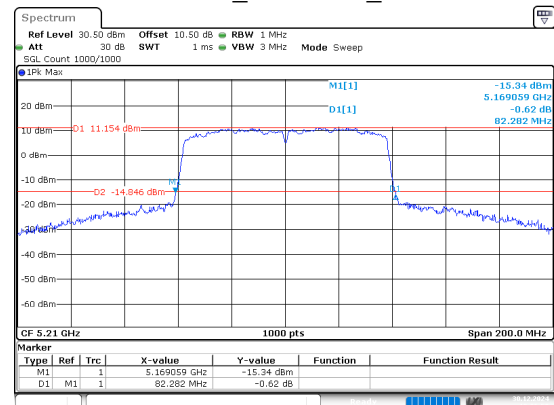
802.11ac40_5190MHz_Chain 0



802.11ac40_5230MHz_Chain 0

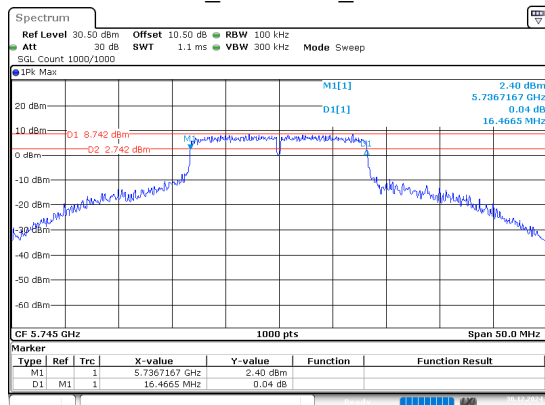


802.11ac80_5210MHz_Chain 0

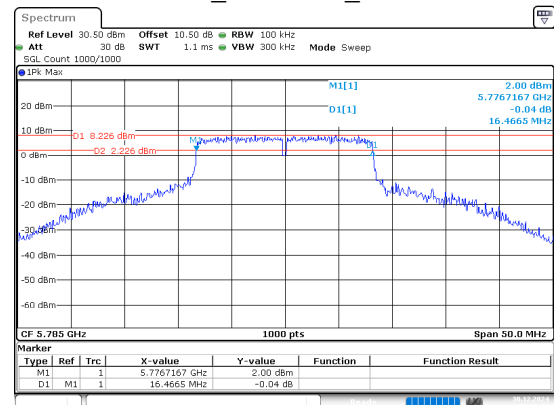


5725-5850MHz

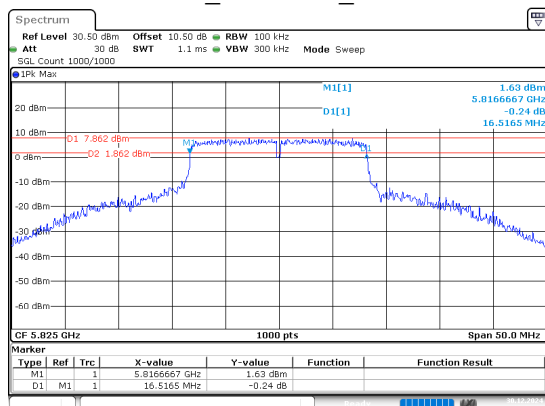
802.11a_5745MHz_Chain 0



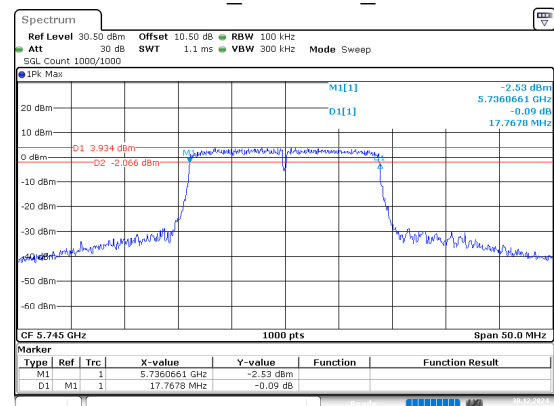
802.11a_5785MHz_Chain 0



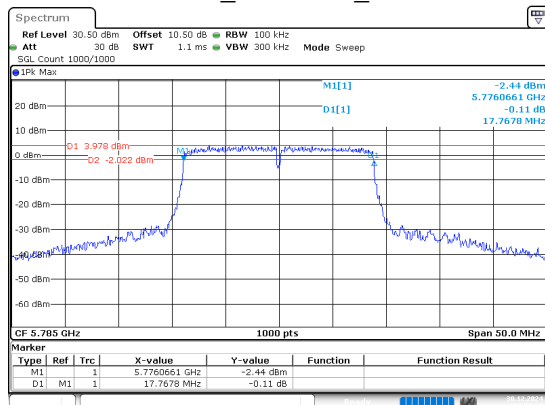
802.11a_5825MHz_Chain 0



802.11n20_5745MHz_Chain 0

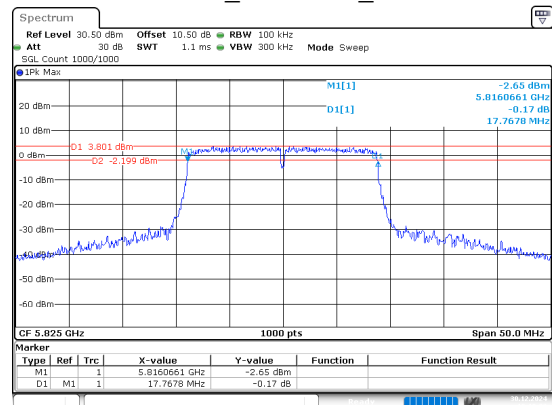


802.11n20_5785MHz_Chain 0



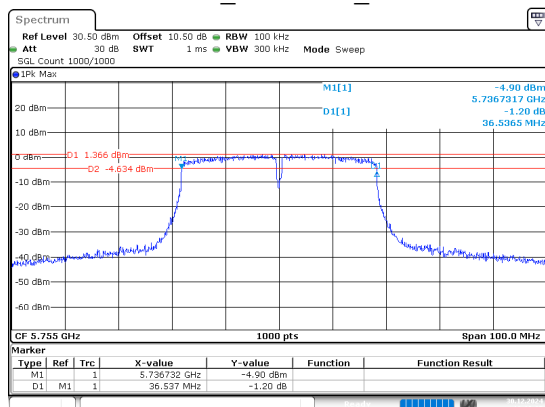
ProjectNo.:2402Z107017E-RF Tester: Tower Qing
Date: 30.DEC.2024 19:14:58

802.11n20_5825MHz_Chain 0



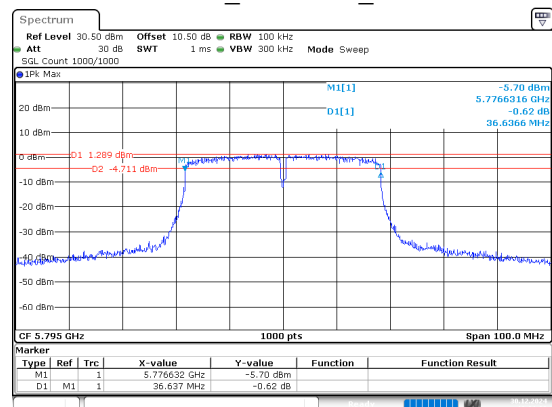
ProjectNo.:2402Z107017E-RF Tester: Tower Qing
Date: 30.DEC.2024 19:18:02

802.11n40_5755MHz_Chain 0



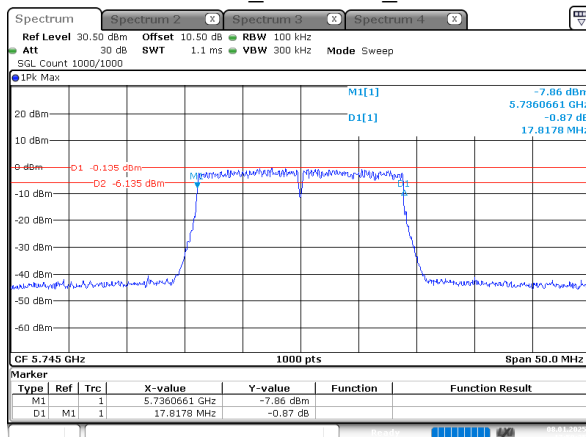
ProjectNo.:2402Z107017E-RF Tester: Tower Qing
Date: 30.DEC.2024 19:19:35

802.11n40_5795MHz_Chain 0



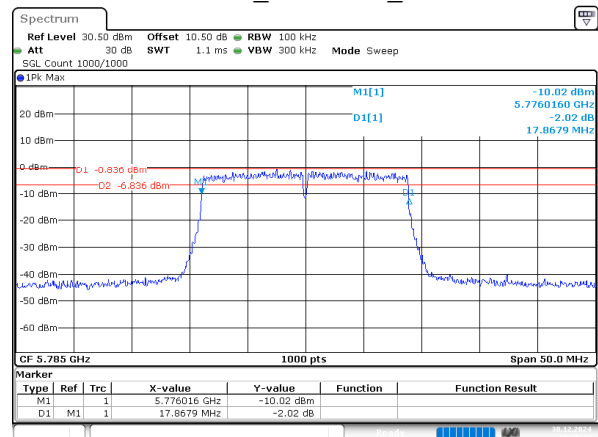
ProjectNo.:2402Z107017E-RF Tester: Tower Qing
Date: 30.DEC.2024 19:21:32

802.11ac20_5745MHz_Chain 0



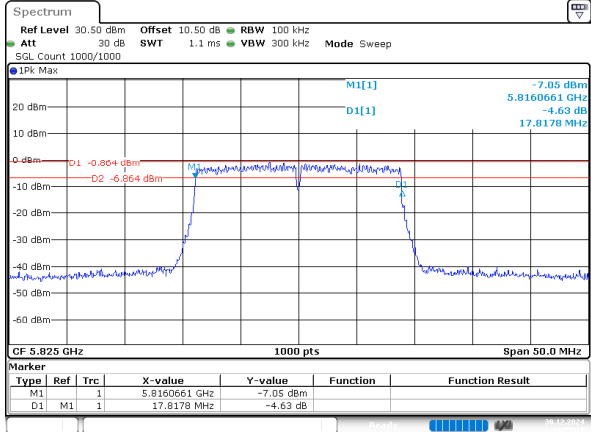
ProjectNo.:2402Z107017E-RF Tester: Tower Qing
Date: 8.JAN.2025 17:50:26

802.11ac20_5785MHz_Chain 0



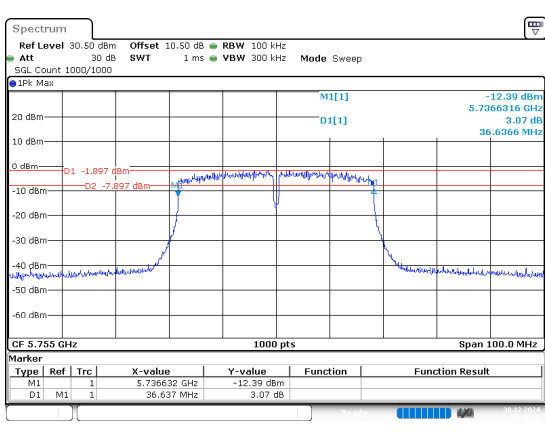
ProjectNo.:2402Z107017E-RF Tester: Tower Qing
Date: 30.DEC.2024 19:25:14

802.11ac20_5825MHz_Chain 0



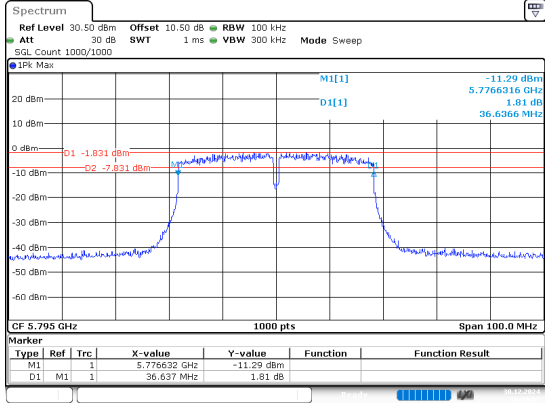
ProjectNo.:2402Z107017E-RF Tester:Tower Qing
Date: 30.DEC.2024 19:27:11

802.11ac40_5755MHz_Chain 0



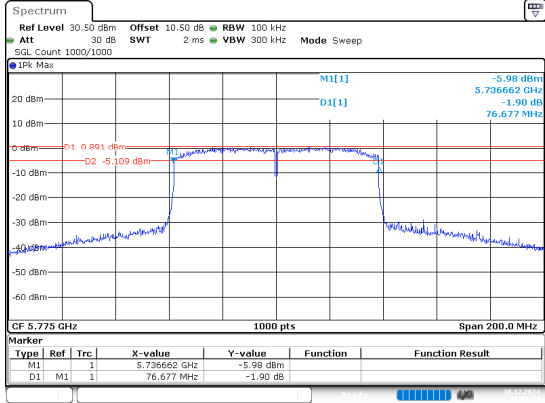
ProjectNo.:2402Z107017E-RF Tester:Tower Qing
Date: 30.DEC.2024 19:28:53

802.11ac40_5795MHz_Chain 0



ProjectNo.:2402Z107017E-RF Tester:Tower Qing
Date: 30.DEC.2024 19:29:57

802.11ac80_5775MHz_Chain 0



ProjectNo.:2402Z107017E-RF Tester:Tower Qing
Date: 30.DEC.2024 19:31:24

5.4 99% Occupied Bandwidth

Serial No.:	2V5L-2	Test Date:	2024/12/28~2025/1/8
Test Site:	RF	Test Mode:	Transmitting
Tester:	Tower Qing	Test Result:	/

Environmental Conditions:

Temperature: (°C):	22.7~23.5	Relative Humidity: (%)	28~34	ATM Pressure: (kPa)	101.4~102.8
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Coaxial Attenuator	10dB	F-08-EM512	2024/06/13	2025/06/12
R&S	Spectrum Analyzer	FSV40	101461	2024/09/05	2025/09/04
R&S	Spectrum Analyzer	FSV40	101589	2024/09/05	2025/09/04

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

Test Data:

Note: Test only was performed at Chain 0.

5150-5250MHz

Mode	Antenna	Test Frequency (MHz)	99% OBW (MHz)
802.11a	Chain 0	5180	16.450
		5200	16.400
		5240	16.400
802.11n20	Chain 0	5180	17.650
		5200	17.600
		5240	17.700
802.11n40	Chain 0	5190	36.300
		5230	36.400
802.11ac20	Chain 0	5180	17.650
		5200	17.650
		5240	17.650
802.11ac40	Chain 0	5190	36.200
		5230	36.200
802.11ac80	Chain 0	5210	75.400

Note:

The 99% Occupied Bandwidth have not fall into the band 5250-5350MHz, please refer to the test plots of 99% Occupied Bandwidth.

5725-5850MHz

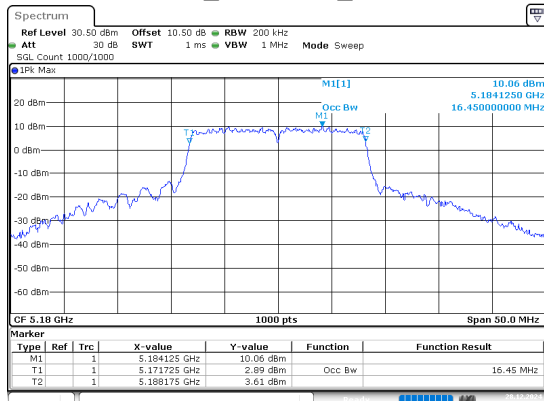
Mode	Antenna	Test Frequency (MHz)	99% OBW (MHz)
802.11a	Chain 0	5745	17.250
		5785	16.950
		5825	16.800
802.11n20	Chain 0	5745	17.550
		5785	17.550
		5825	17.550
802.11n40	Chain 0	5755	36.300
		5795	36.200
802.11ac20	Chain 0	5745	17.600
		5785	17.600
		5825	17.600
802.11ac40	Chain 0	5755	36.100
		5795	36.100
802.11ac80	Chain 0	5775	75.200

Note:

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

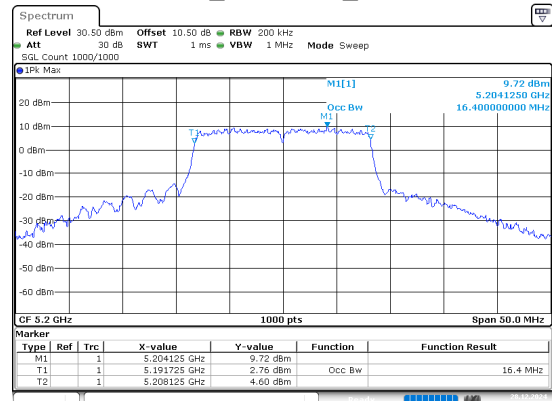
5150-5250MHz

802.11a_5180MHz_Chain 0



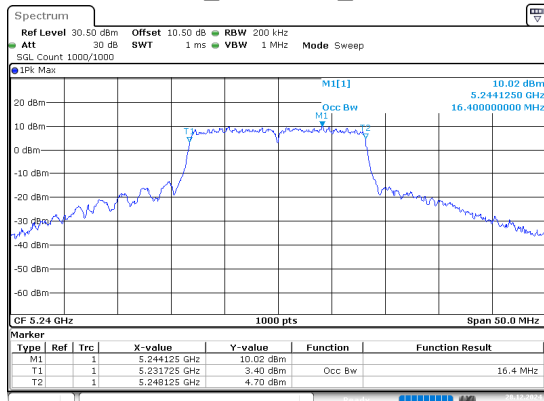
ProjectNo.:2402Z107017E-RF Tester:Tower Qing
Date: 26.DEC.2024 10:26:04

802.11a_5200MHz_Chain 0



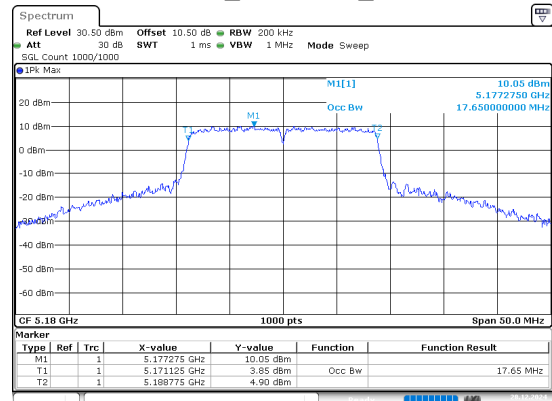
ProjectNo.:2402Z107017E-RF Tester:Tower Qing
Date: 26.DEC.2024 10:29:25

802.11a_5240MHz_Chain 0



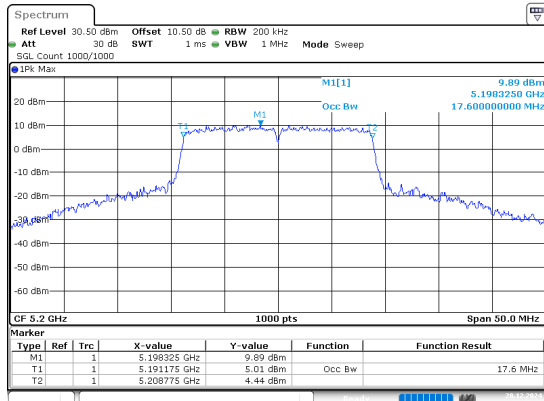
ProjectNo.:2402Z107017E-RF Tester:Tower Qing
Date: 26.DEC.2024 10:31:08

802.11n20_5180MHz_Chain 0



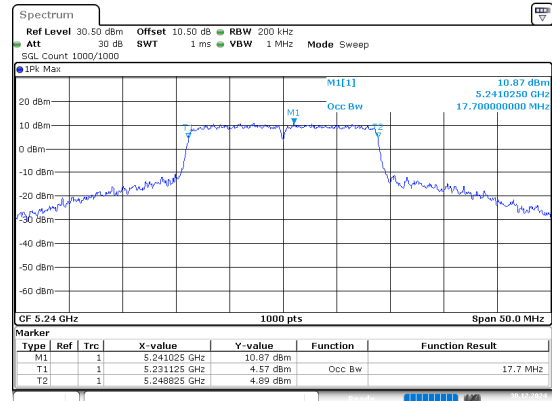
ProjectNo.:2402Z107017E-RF Tester:Tower Qing
Date: 26.DEC.2024 10:33:33

802.11n20_5200MHz_Chain 0



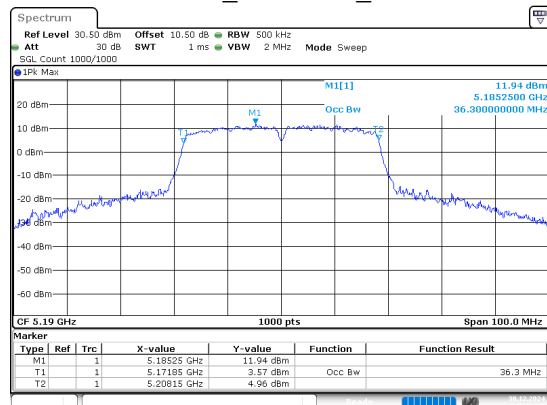
ProjectNo.:2402Z107017E-RF Tester:Tower Qing
Date: 26.DEC.2024 10:35:10

802.11n20_5240MHz_Chain 0



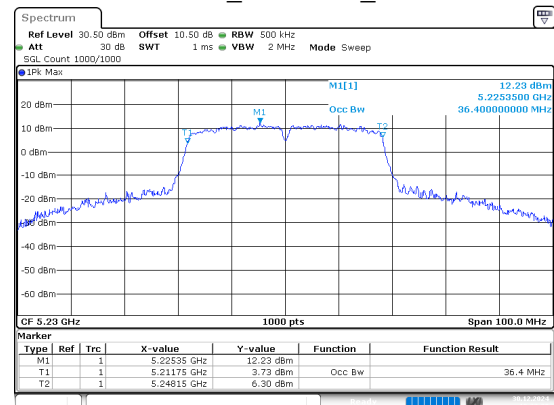
ProjectNo.:2402Z107017E-RF Tester:Tower Qing
Date: 30.DEC.2024 21:13:16

802.11n40_5190MHz_Chain 0



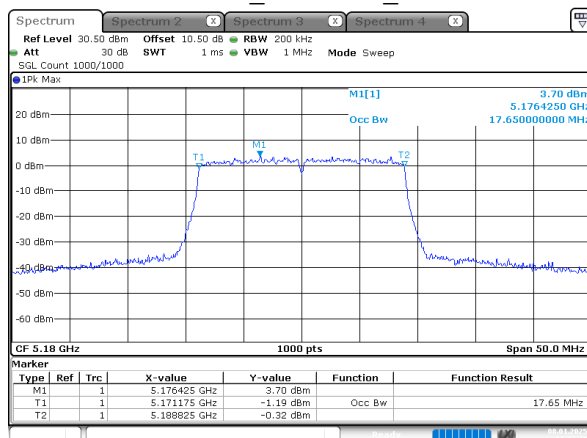
ProjectNo.:2402Z107017E-RF Tester:Tower Qing
Date: 30.DEC.2024 18:21:50

802.11n40_5230MHz_Chain 0



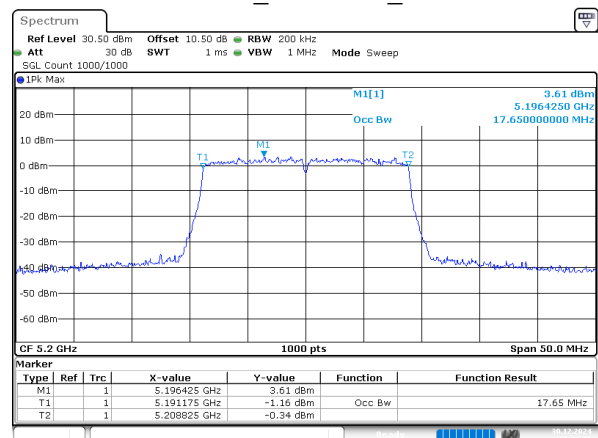
ProjectNo.:2402Z107017E-RF Tester:Tower Qing
Date: 30.DEC.2024 18:23:00

802.11ac20_5180MHz_Chain 0



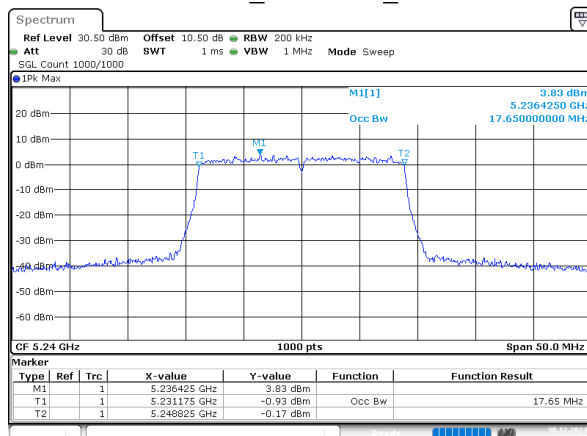
ProjectNo.:2402Z107017E-RF Tester:Tower Qing
Date: 8.JAN.2025 17:39:16

802.11ac20_5200MHz_Chain 0



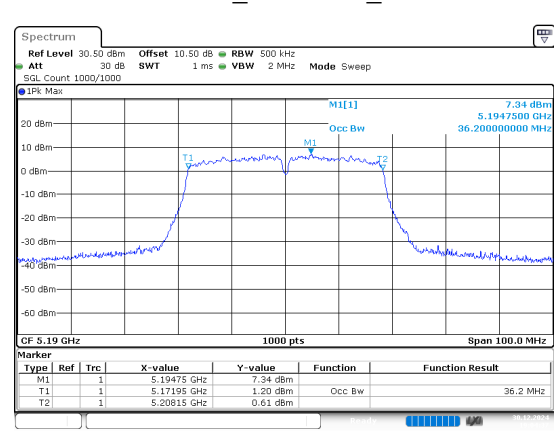
ProjectNo.:2402Z107017E-RF Tester:Tower Qing
Date: 30.DEC.2024 19:01:37

802.11ac20_5240MHz_Chain 0



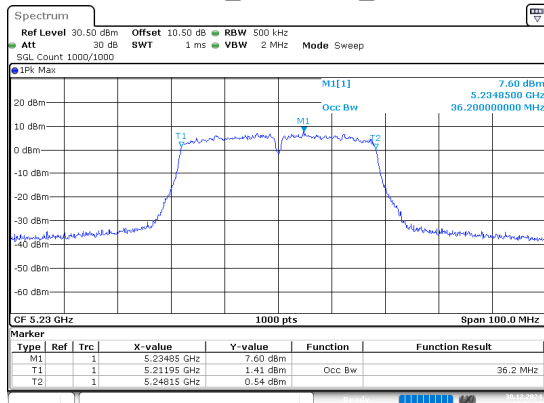
ProjectNo.:2402Z107017E-RF Tester:Tower Qing
Date: 30.DEC.2024 19:02:55

802.11ac40_5190MHz_Chain 0

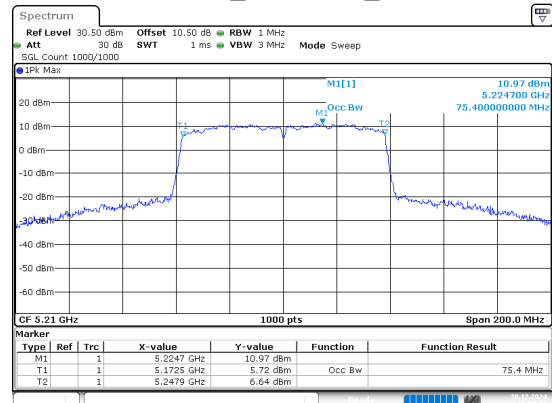


ProjectNo.:2402Z107017E-RF Tester:Tower Qing
Date: 30.DEC.2024 19:04:37

802.11ac40_5230MHz_Chain 0

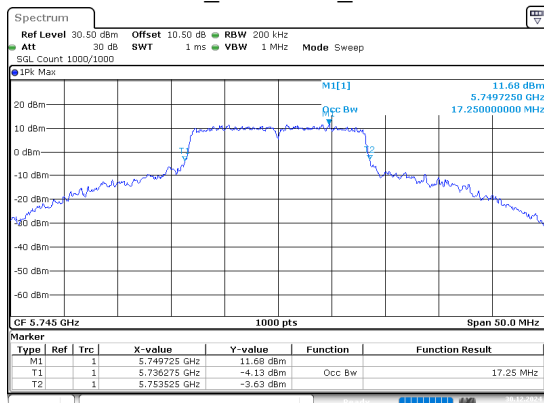


802.11ac80_5210MHz_Chain 0

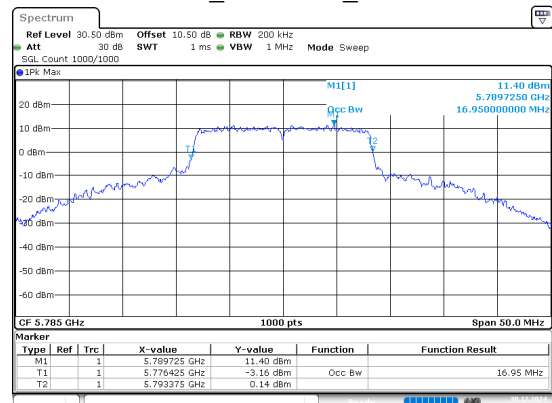


5725-5850MHz

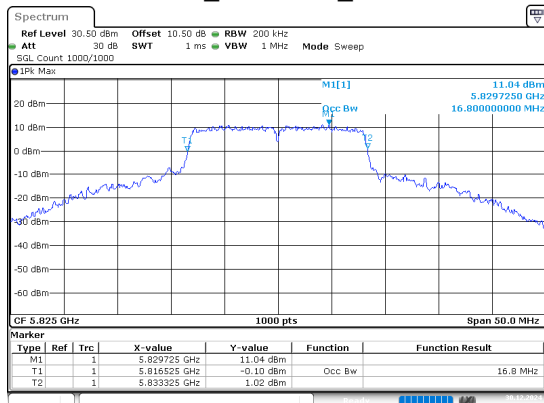
802.11a_5745MHz_Chain 0



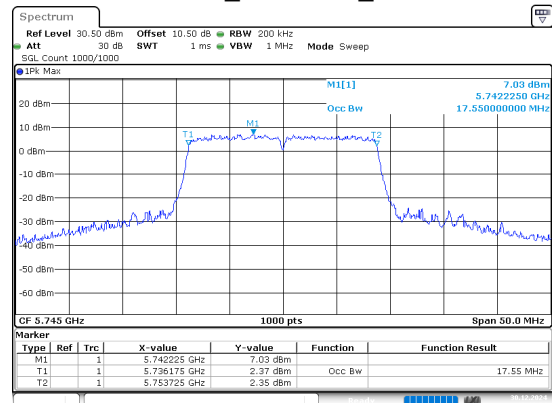
802.11a_5785MHz_Chain 0



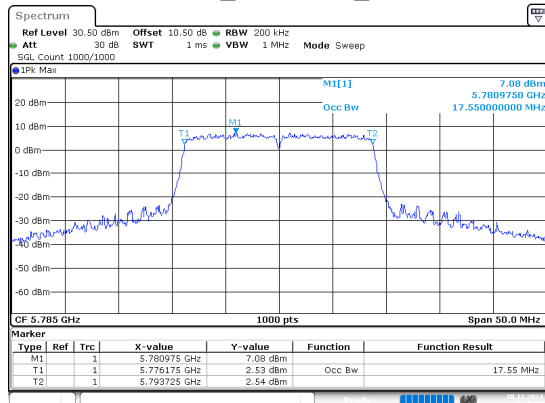
802.11a_5825MHz_Chain 0



802.11n20_5745MHz_Chain 0

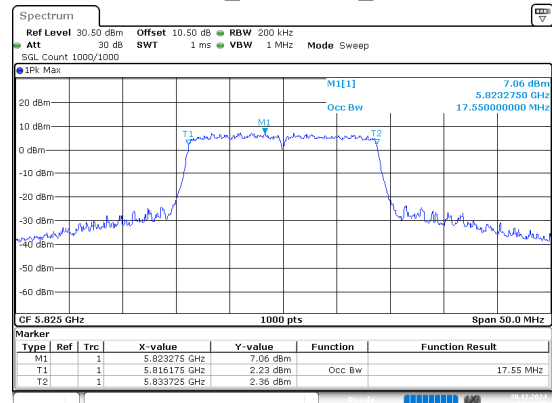


802.11n20_5785MHz_Chain 0



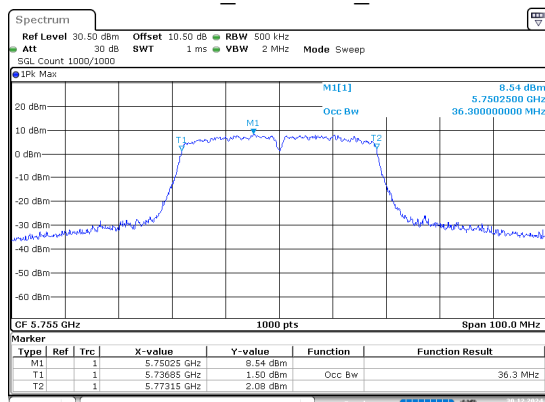
ProjectNo.:2402Z107017E-RF Tester: Tower Qing
Date: 30.DEC.2024 19:19:29

802.11n20_5825MHz_Chain 0



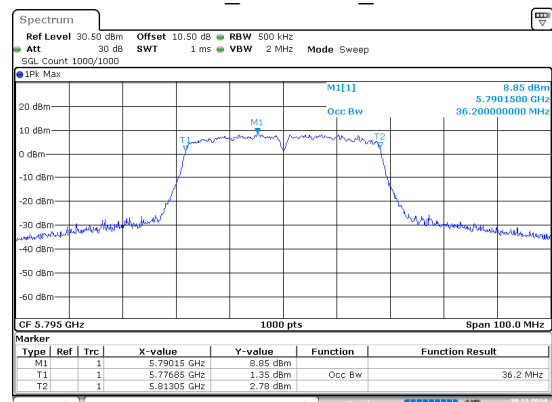
ProjectNo.:2402Z107017E-RF Tester: Tower Qing
Date: 30.DEC.2024 19:18:26

802.11n40_5755MHz_Chain 0



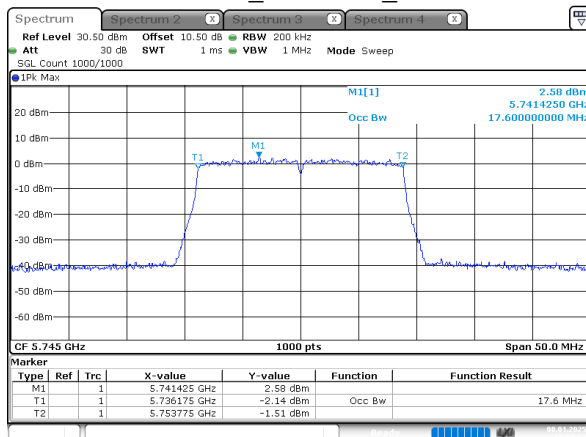
ProjectNo.:2402Z107017E-RF Tester: Tower Qing
Date: 30.DEC.2024 19:19:51

802.11n40_5795MHz_Chain 0



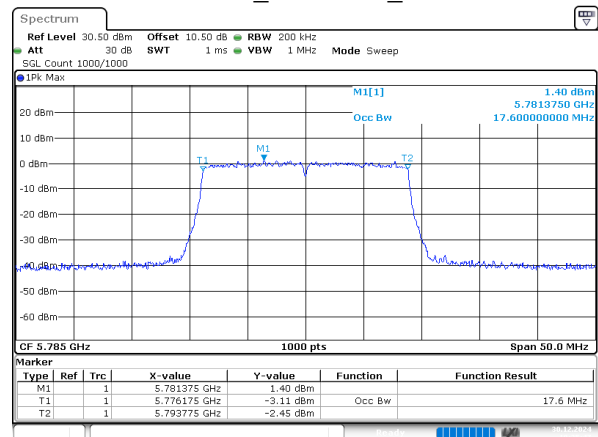
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Date: 30.DEC.2024 19:21:49

802.11ac20_5745MHz_Chain 0



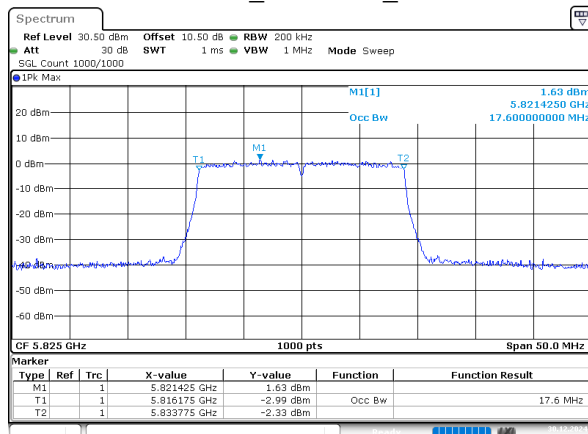
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Date: 8.JAN.2025 17:50:52

802.11ac20_5785MHz_Chain 0



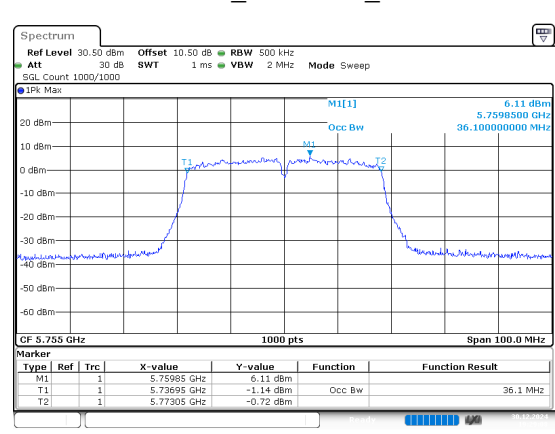
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Date: 30.DEC.2024 19:25:47

802.11ac20_5825MHz_Chain 0



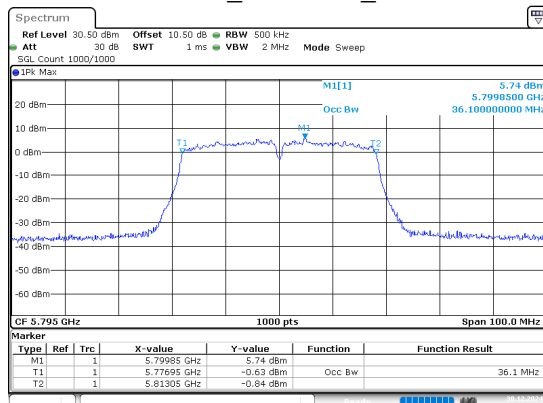
ProjectNo.:2402Z107017E-RF Tester:Tower Qing
Date: 30.DEC.2024 19:27:34

802.11ac40_5755MHz_Chain 0



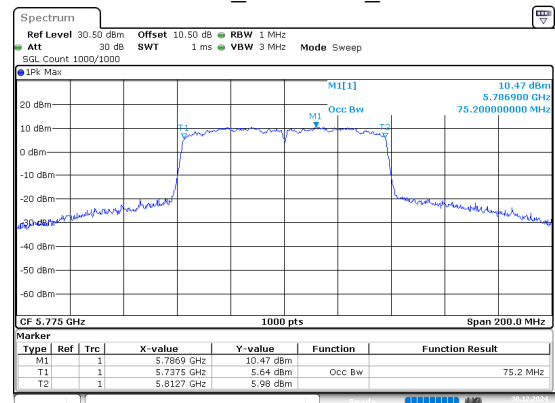
ProjectNo.:2402Z107017E-RF Tester:Tower Qing
Date: 30.DEC.2024 19:29:08

802.11ac40_5795MHz_Chain 0



ProjectNo.:2402Z107017E-RF Tester:Tower Qing
Date: 30.DEC.2024 19:30:13

802.11ac80_5775MHz_Chain 0



ProjectNo.:2402Z107017E-RF Tester:Tower Qing
Date: 30.DEC.2024 19:31:42

5.5 Maximum Conducted Output Power

Serial No.:	2V5L-2	Test Date:	2024/12/28~2025/1/8
Test Site:	RF	Test Mode:	Transmitting
Tester:	Tower Qing	Test Result:	Pass

Environmental Conditions:

Temperature: (°C):	22.7~23.5	Relative Humidity: (%)	28~34	ATM Pressure: (kPa)	101.4~102.8
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Coaxial Attenuator	10dB	F-08-EM512	2024/06/13	2025/06/12
R&S	Spectrum Analyzer	FSV40	101461	2024/09/05	2025/09/04
R&S	Spectrum Analyzer	FSV40	101589	2024/09/05	2025/09/04

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

Test Data:**5150-5250MHz**

Mode	Antenna	Test Frequency (MHz)	Average Output Power(dBm)	Limit (dBm)
802.11a	Chain 0	5180	20.61	30
		5200	20.28	30
		5240	20.57	30
	Chain 1	5180	21.83	30
		5200	22.03	30
		5240	22.35	30
802.11n20	Chain 0	5180	21.3	30
		5200	21.06	30
		5240	22.05	30
	Chain 1	5180	20.35	30
		5200	22.02	30
		5240	21.82	30
	Chain 0+Chain 1	5180	23.86	28.07
		5200	24.58	28.07
		5240	24.95	28.07
802.11n40	Chain 0	5190	21.16	30
		5230	21.44	30
	Chain 1	5190	18.16	30
		5230	18.84	30
	Chain 0+Chain 1	5190	22.92	28.07
		5230	23.34	28.07
802.11ac20	Chain 0	5180	13.88	30
		5200	13.73	30
		5240	13.88	30
	Chain 1	5180	10.50	30
		5200	10.01	30
		5240	11.00	30
	Chain 0+Chain 1	5180	15.52	28.07
		5200	15.27	28.07
		5240	15.68	28.07
802.11ac40	Chain 0	5190	15.17	30
		5230	15.34	30

Mode	Antenna	Test Frequency (MHz)	Average Output Power(dBm)	Limit (dBm)
802.11ac40	Chain 1	5190	12.24	30
		5230	12.92	30
	Chain 0+Chain 1	5190	16.96	28.07
		5230	17.31	28.07
802.11ac80	Chain 0	5210	19.71	30
	Chain 1	5210	17.27	30
	Chain 0+Chain 1	5210	21.67	28.07

Note 1: The device is a indoor AP.

Note 2: The limit for MIMO mode was calculated with the gain of Beamforming mode 7.93dBi.

5725-5850MHz

Mode	Antenna	Test Frequency (MHz)	Average Output Power(dBm)	Limit (dBm)
802.11a	Chain 0	5745	22.17	30
		5785	21.97	30
		5825	21.79	30
	Chain 1	5745	19.94	30
		5785	19.99	30
		5825	19.97	30
802.11n20	Chain 0	5745	18.30	30
		5785	18.41	30
		5825	18.25	30
	Chain 1	5745	19.93	30
		5785	20.08	30
		5825	20.09	30
	Chain 0+Chain 1	5745	22.20	28.07
		5785	22.34	28.07
		5825	22.28	28.07
802.11n40	Chain 0	5755	18.07	30
		5795	18.14	30
	Chain 1	5755	19.91	30
		5795	19.93	30
	Chain 0+Chain 1	5755	22.10	28.07
		5795	22.14	28.07
802.11ac20	Chain 0	5745	12.60	30
		5785	11.74	30
		5825	11.76	30

Mode	Antenna	Test Frequency (MHz)	Average Output Power(dBm)	Limit (dBm)
802.11ac20	Chain 1	5745	13.51	30
		5785	13.75	30
		5825	13.84	30
	Chain 0+Chain 1	5745	16.09	28.07
		5785	15.87	28.07
		5825	15.93	28.07
802.11ac40	Chain 0	5755	13.53	30
		5795	13.59	30
	Chain 1	5755	15.17	30
		5795	15.23	30
	Chain 0+Chain 1	5755	17.44	28.07
		5795	17.50	28.07
802.11ac80	Chain 0	5775	19.32	30
	Chain 1	5775	20.68	30
	Chain 0+Chain 1	5775	23.06	28.07

Note 1: The limit for MIMO mode was calculated with the gain of Beamforming mode 7.93dBi.

5.6 Power Spectral Density

Serial No.:	2V5L-2	Test Date:	2024/12/28~2025/1/8
Test Site:	RF	Test Mode:	Transmitting
Tester:	Tower Qing	Test Result:	Pass

Environmental Conditions:

Temperature: (°C):	22.7~23.5	Relative Humidity: (%)	28~34	ATM Pressure: (kPa)	101.4~102.8
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Coaxial Attenuator	10dB	F-08-EM512	2024/06/13	2025/06/12
R&S	Spectrum Analyzer	FSV40	101461	2024/09/05	2025/09/04
R&S	Spectrum Analyzer	FSV40	101589	2024/09/05	2025/09/04

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

Test Data:**5150-5250MHz**

Mode	Antenna	Test Frequency (MHz)	Reading (dBm/MHz)	Duty Cycle Factor (dB)	Result (dBm/MHz)	Limit (dBm/MHz)
802.11a	Chain 0	5180	9.38	0	9.38	17
		5200	9.34	0	9.34	17
		5240	9.53	0	9.53	17
	Chain 1	5180	10.85	0	10.85	17
		5200	11.10	0	11.10	17
		5240	11.50	0	11.50	17
802.11n20	Chain 0	5180	10.01	0	10.01	17
		5200	9.59	0	9.59	17
		5240	10.93	0	10.93	17
	Chain 1	5180	9.12	0	9.12	17
		5200	10.65	0	10.65	17
		5240	10.38	0	10.38	17
	Chain 0 +Chain 1	5180	12.60	0	12.60	15.07
		5200	13.16	0	13.16	15.07
		5240	13.67	0	13.67	15.07
802.11n40	Chain 0	5190	7.29	0	7.29	17
		5230	7.39	0	7.39	17
	Chain 1	5190	4.25	0	4.25	17
		5230	4.91	0	4.91	17
	Chain 0 +Chain 1	5190	9.04	0	9.04	15.07
		5230	9.33	0	9.33	15.07
802.11ac20	Chain 0	5180	2.59	0	2.59	17
		5200	2.34	0	2.34	17
		5240	2.62	0	2.62	17
	Chain 1	5180	-0.77	0	-0.77	17
		5200	-1.24	0	-1.24	17
		5240	-0.10	0	-0.10	17
	Chain 0 +Chain 1	5180	4.24	0	4.24	15.07
		5200	3.92	0	3.92	15.07
		5240	4.48	0	4.48	15.07
802.11ac40	Chain 0	5190	1.44	0	1.44	17

Mode	Antenna	Test Frequency (MHz)	Reading (dBm/MHz)	Duty Cycle Factor (dB)	Result (dBm/MHz)	Limit (dBm/MHz)
802.11ac40	Chain 0	5230	1.45	0	1.45	17
	Chain 1	5190	-2.10	0	-2.10	17
		5230	-0.82	0	-0.82	17
	Chain 0 +Chain 1	5190	3.03	0	3.03	15.07
		5230	3.47	0	3.47	15.07
802.11ac80	Chain 0	5210	2.71	0	2.71	17
	Chain 1	5210	0.56	0	0.56	17
	Chain 0 +Chain 1	5210	4.78	0	4.78	15.07

Note 1: The limit for MIMO mode was calculated with the gain of Beamforming mode 7.93dBi.

5725-5850MHz

Mode	Antenna	Test Frequency (MHz)	Reading (dBm/500kHz)	Duty Cycle Factor (dB)	Result (dBm/500kHz)	Limit (dBm/500kHz)
802.11a	Chain 0	5745	8.54	0	8.54	30
		5785	8.11	0	8.11	30
		5825	7.89	0	7.89	30
	Chain 1	5745	6.10	0	6.10	30
		5785	6.23	0	6.23	30
		5825	5.96	0	5.96	30
802.11n20	Chain 0	5745	4.29	0	4.29	30
		5785	4.30	0	4.30	30
		5825	4.00	0	4.00	30
	Chain 1	5745	5.82	0	5.82	30
		5785	5.83	0	5.83	30
		5825	5.86	0	5.86	30
	Chain 0 +Chain 1	5745	8.13	0	8.13	28.07
		5785	8.14	0	8.14	28.07
		5825	8.04	0	8.04	28.07
802.11n40	Chain 0	5755	1.31	0	1.31	30
		5795	1.17	0	1.17	30
	Chain 1	5755	3.81	0	3.81	30
		5795	3.00	0	3.00	30
	Chain 0 +Chain 1	5755	5.75	0	5.75	28.07
		5795	5.19	0	5.19	28.07

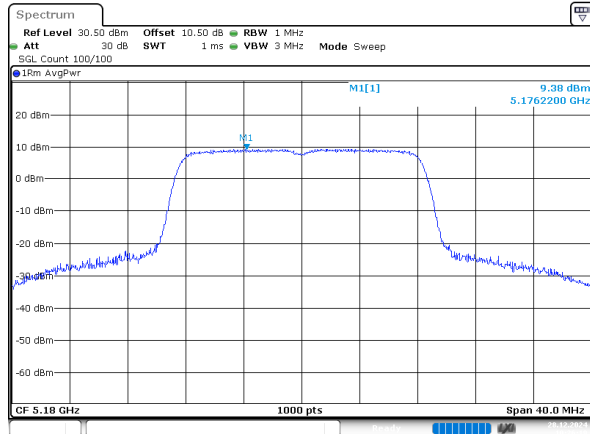
Mode	Antenna	Test Frequency (MHz)	Reading (dBm/500kHz)	Duty Cycle Factor(dB)	Result (dBm/500kHz)	Limit (dBm/500kHz)
802.11ac20	Chain 0	5745	-1.50	0	-1.50	30
		5785	-2.37	0	-2.37	30
		5825	-2.27	0	-2.27	30
	Chain 1	5745	-0.44	0	-0.44	30
		5785	-0.31	0	-0.31	30
		5825	-0.34	0	-0.34	30
	Chain 0 +Chain 1	5745	2.07	0	2.07	28.07
		5785	1.79	0	1.79	28.07
		5825	1.81	0	1.81	28.07
802.11ac40	Chain 0	5755	-3.20	0	-3.20	30
		5795	-3.22	0	-3.22	30
	Chain 1	5755	-1.59	0	-1.59	30
		5795	-1.41	0	-1.41	30
	Chain 0 +Chain 1	5755	0.69	0	0.69	28.07
		5795	0.79	0	0.79	28.07
802.11ac80	Chain 0	5775	-0.45	0	-0.45	30
	Chain 1	5775	0.66	0	0.66	30
	Chain 0 +Chain 1	5775	3.15	0	3.15	28.07

Note 1: Result = Reading + Duty Cycle Factor

Note 2: The limit for MIMO mode was calculated with the gain of Beamforming mode 7.93dBi.

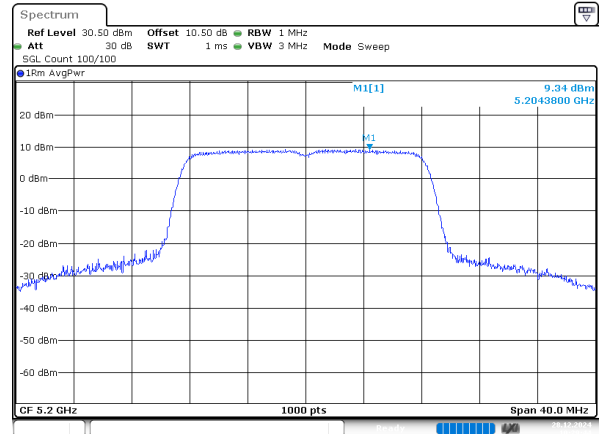
5150-5250MHz

802.11a_5180MHz_Chain 0



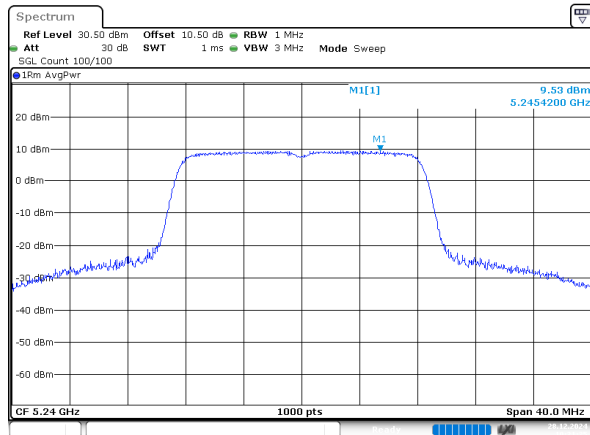
ProjectNo.:2402Z107017E-RF Tester:Tower Qing
Date: 28.DEC.2024 10:26:20

802.11a_5200MHz_Chain 0



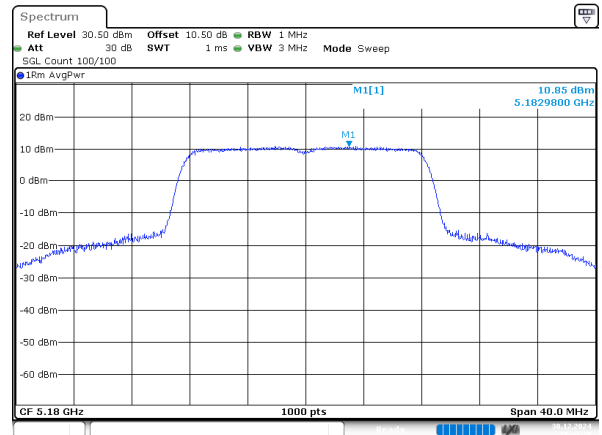
ProjectNo.:2402Z107017E-RF Tester:Tower Qing
Date: 28.DEC.2024 10:29:44

802.11a_5240MHz_Chain 0



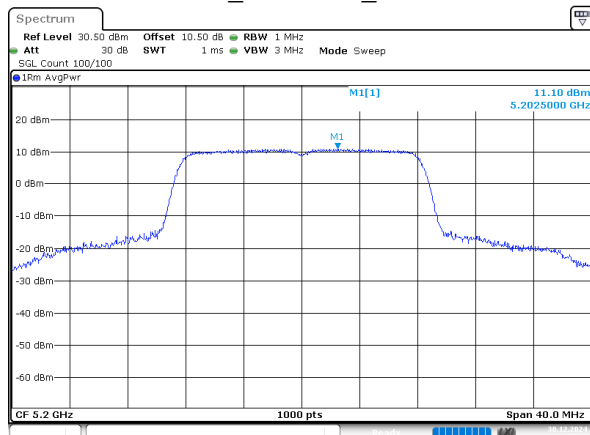
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Date: 28.DEC.2024 10:31:26

802.11a_5180MHz_Chain 1



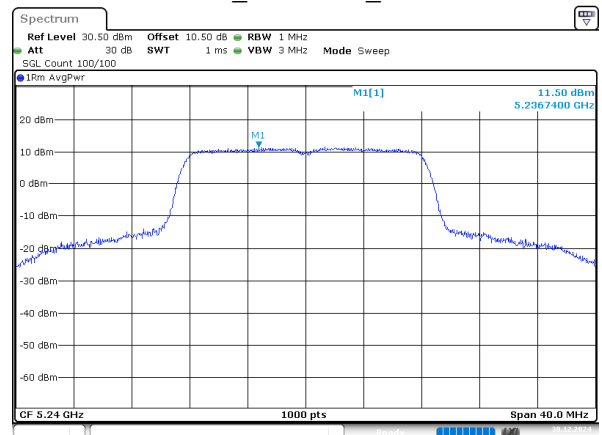
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Date: 30.DEC.2024 19:44:28

802.11a_5200MHz_Chain 1



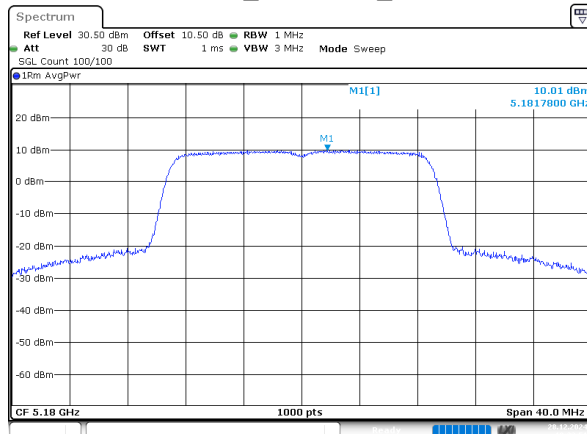
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Date: 30.DEC.2024 19:46:05

802.11a_5240MHz_Chain 1



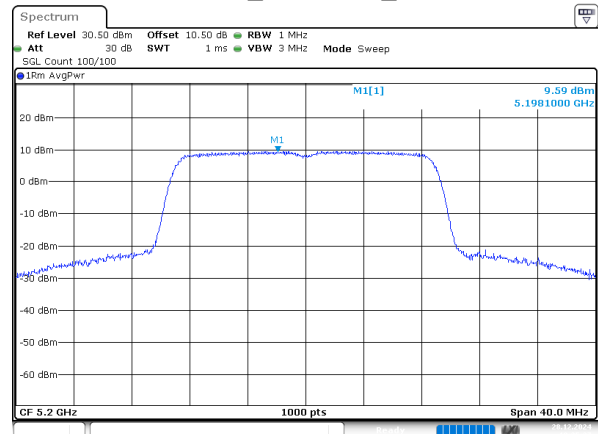
ProjectNo.:2402Z107017E-RF Tester:Tower Qing
Date: 30.DEC.2024 19:48:31

802.11n20_5180MHz_Chain 0



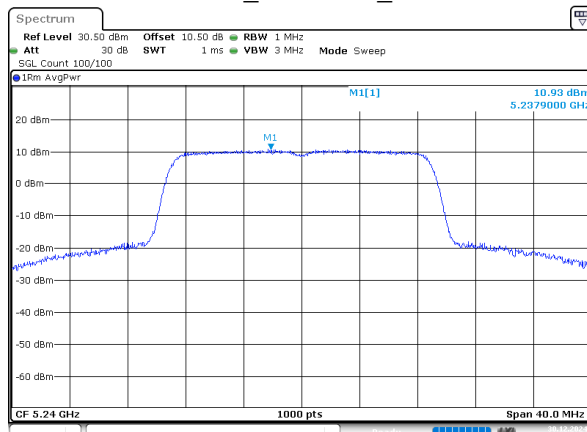
ProjectNo.:2402Z107017E-RF Tester:Tower Qing
Date: 28.DEC.2024 10:33:51

802.11n20_5200MHz_Chain 0



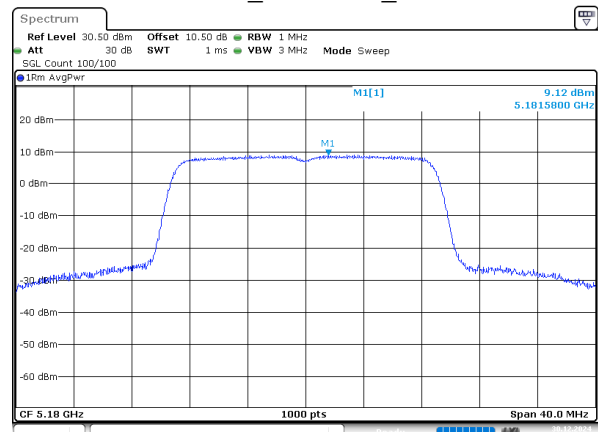
ProjectNo.:2402Z107017E-RF Tester:Tower Qing
Date: 28.DEC.2024 10:35:28

802.11n20_5240MHz_Chain 0



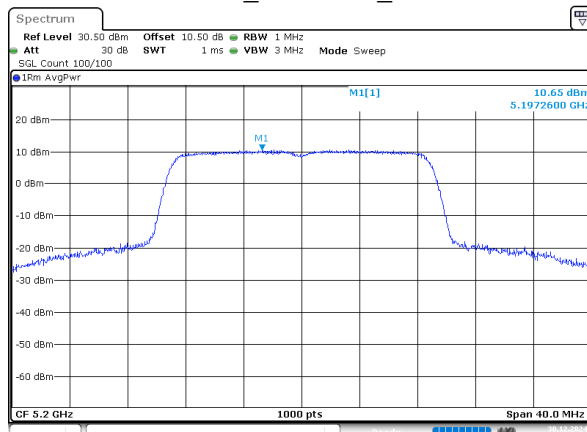
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Date: 30.DEC.2024 21:13:44

802.11n20_5180MHz_Chain 1



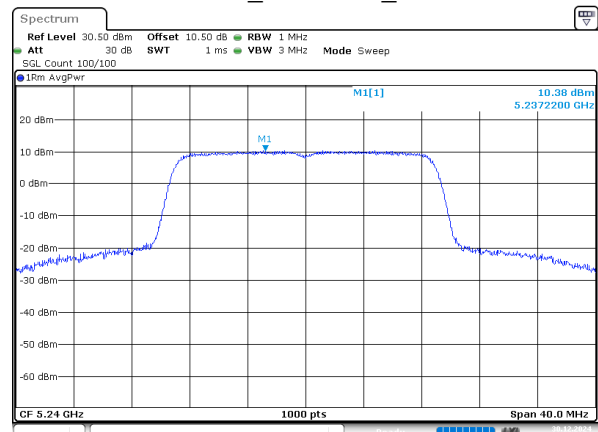
ProjectNo.:2402Z107017E-RF Tester:Tower Qing
Date: 30.DEC.2024 19:51:54

802.11n20_5200MHz_Chain 1



ProjectNo.:2402Z107017E-RF Tester:Tower Qing
Date: 30.DEC.2024 20:13:18

802.11n20_5240MHz_Chain 1



ProjectNo.:2402Z107017E-RF Tester:Tower Qing
Date: 30.DEC.2024 20:15:09