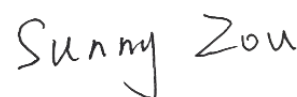


TEST REPORT

Applicant: TECNO MOBILE LIMITED
Address: FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL
CENTRE 19-25 SHAN MEI STREET FOTAN NT
HONGKONG
Equipment Type: MEGAMINI GAMING G1
Model Name: G01RA
Brand Name: TECNO
FCC ID: 2ADYY-G01RA
Test Standard: 47 CFR Part 15 Subpart C
(refer to section 3.1)
Sample Arrival Date: Sep. 11, 2024
Test Date: Sep. 21, 2024 - Nov. 01, 2024
Date of Issue: Jan. 03, 2025

ISSUED BY:

Shenzhen BALUN Technology Co., Ltd.

Tested by: Li Ganming**Checked by:** Ye Hongji**Approved by:** Sunny Zou
(Technical Director)

Revision History

Version	Issue Date	Revisions
<u>Rev. 01</u>	<u>Nov. 22, 2024</u>	<u>Initial Issue</u>
<u>Rev. 02</u>	<u>Jan. 03, 2025</u>	<u>Add Ancillary Equipment in section 4.2</u>

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1 GENERAL INFORMATION

1.1 Test Laboratory

Name	Shenzhen BALUN Technology Co., Ltd.
Address	Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Phone Number	+86 755 6685 0100

1.2 Test Location

Name	Shenzhen BALUN Technology Co., Ltd.
Location	☒ Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
	☐ 1/F, Building B, Ganghongji High-tech Intelligent Industrial Park, No. 1008, Songbai Road, Yangguang Community, Xili Sub-district, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Accreditation Certificate	The laboratory is a testing organization accredited by FCC as a accredited testing laboratory. The designation number is CN1196.

2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	TECNO MOBILE LIMITED
Address	FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG

2.2 Manufacturer Information

Manufacturer	TECNO MOBILE LIMITED
Address	FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG

2.3 General Description for Equipment under Test (EUT)

EUT Name	MEGAMINI GAMING G1
Model Name Under Test	G01RA
Series Model Name	N/A
Description of Model name differentiation	N/A
Hardware Version	G01RA_MB_V31
Software Version	Windows 11
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

2.4 Technical Information

Network and Wireless connectivity	Bluetooth (BR+EDR+BLE) WIFI 802.11a, 802.11b, 802.11g, 802.11n, 802.11ac and 802.11ax
-----------------------------------	--

The requirement for the following technical information of the EUT was tested in this report:

Frequency Range	802.11b/g/n/ax(20 MHz): 2.412 GHz - 2.462 GHz $f_c = 2412 \text{ MHz} + (N-1)*5 \text{ MHz}$, where - f_c = "Operating Frequency" in MHz, - N = "Channel Number" with the range from 1 to 11. 802.11n/ax(40 MHz): 2.422 GHz - 2.452 GHz $f_c = 2412 \text{ MHz} + (N-1)*5 \text{ MHz}$, where - f_c = "Operating Frequency" in MHz, - N = "Channel Number" with the range from 3 to 9.	
Modulation Type	DSSS, OFDM, OFDMA	
Product Type	☒ Mobile ☐ Portable ☐ Fix Location	
Antenna System (eg., MIMO, Smart Antenna)	Cyclic Delay Diversity (CDD) for 802.11b/g Multi Input Multi Output (MIMO) for 802.11n/ax	
Categorization as Correlated or Completely Uncorrelated	Categorization as Correlated for 802.11b/g Categorization as Uncorrelated for 802.11n/ax	
Antenna Type	Main Antenna	FPC Antenna
	Aux. Antenna	
Antenna Gain	Main Antenna	1.94 dBi
	Aux. Antenna	1.89 dBi
Total directional gain	For power spectral density (PSD) measurements	Correlated: 4.93 dBi Formulas: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / \text{NANT}] \text{ dBi}$ Uncorrelated: 1.92 dBi Formulas: Directional gain = $10 \log[(10^{G1/10} + 10^{G2/10} + \dots + 10^{GN/10}) / \text{NANT}] \text{ dBi}$
	For power measurements	Correlated: 4.93 dBi Formulas: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / \text{NANT}] \text{ dBi}$ Uncorrelated: 1.92 dBi Formulas: Directional gain = $10 \log[(10^{G1/10} + 10^{G2/10} + \dots + 10^{GN/10}) / \text{NANT}] \text{ dBi}$
	For Conducted Out-of-Band	Correlated: 4.93 dBi

	and Spurious Measurements	Formulas: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / NANT]$ dBi Uncorrelated: 1.92 dBi Formulas: Directional gain = $10 \log[(10^{G1/10} + 10^{G2/10} + \dots + 10^{GN/10}) / NANT]$ dBi
About the Product		Only the WIFI 802.11b, 802.11g, 802.11n (HT20/40) and 802.11ax (HE20/40) was tested in this report.

Mode	Antenna		
	Main Antenna	Aux. Antenna	MIMO
802.11b	√	√	√
802.11g	√	√	√
802.11n20	√	√	√
802.11n40	√	√	√
802.11ax20	√	√	√
802.11ax40	√	√	√

Note: All the configurations were tested, but only the worst data was shown in this report.

802.11ax RU configuration table					
Mode	Full RU (SU)	RU_26	RU_52	RU_106	RU_242
802.11ax20	√	√	√	√	--
802.11ax40	√	√	√	√	√

Modulation technology	Modulation Type	Transfer Rate (Mbps)(Single RF path)
DSSS (802.11b)	DBPSK	1
	DQPSK	2
	CCK	5.5/11
OFDM (802.11g)	BPSK	6/9
	QPSK	12/18
	16QAM	24/36
	64QAM	48/54
OFDM (802.11n-20 MHz)	BPSK	6.5/7.2
	QPSK	13/19.5/14.4/21.7
	16QAM	26/39/28.9/43.3
	64QAM	52/58.5/65/57.8/65/72.2
OFDM (802.11n-40 MHz)	BPSK	13.5/15
	QPSK	27/40.5/30/45
	16QAM	54/81/60/90
	64QAM	108/121.5/135/120/150
OFDMA (802.11ax-20 MHz)	BPSK	4
	QPSK	16/24/17/26
	16QAM	33/49/34/52

	64QAM	65/73/81/69/77/86
	256QAM	98/108/103/115
	1024QAM	122/135/129/143
OFDMA (802.11ax-40 MHz)	BPSK	8/9
	QPSK	33/49/34/52
	16QAM	65/98/69/103
	64QAM	130/146/163/138/155/172
	256QAM	195/217/207/229
	1024QAM	244/271/258/287

Note: Preliminary tests were performed in different data rate in above table to find the worst radiated emission. The data rate shown in the table below is the worst-case rate with respect to the specific test item. Investigation has been done on all the possible configurations for searching the worst cases. The following table is a list of the test modes shown in this test report.

Test Items	Mode	Data Rate	Channel	
Output Power	11b/11g/11n20/11n40/ 11ax20/11ax40	1/6/6.5/13.5/ 4/8 Mbps	1/6/11	3/6/9
Occupied Bandwidth	11b/11g/11n20/11n40/ 11ax20/11ax40	1/6/6.5/13.5/ 4/8 Mbps	1/6/11	3/6/9
Conducted Spurious Emission	11b/11g/11n20/11n40/ 11ax20/11ax40	1/6/6.5/13.5/ 4/8 Mbps	1/6/11	3/6/9
Conducted Emission	11b/11g/11n20/11n40/ 11ax20/11ax40	1/6/6.5/13.5/ 4/8 Mbps	1/6/11	3/6/9
Radiated Spurious Emission	11b/11g/11n20/11n40/ 11ax20/11ax40	1/6/6.5/13.5/ 4/8 Mbps	1/6/11	3/6/9
Band Edge	11b/11g/11n20/11n40/ 11ax20/11ax40	1/6/6.5/13.5/ 4/8 Mbps	1/6/11	3/6/9
Power spectral density (PSD)	11b/11g/11n20/11n40/ 11ax20/11ax40	1/6/6.5/13.5/ 4/8 Mbps	1/6/11	3/6/9

Note: The above EUT information in section 2.4 was declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or user's manual.

3 SUMMARY OF TEST RESULTS

3.1 Test Standards

No.	Identity	Document Title
1	47 CFR Part 15, Subpart C	Intentional radiators of radio frequency equipment
2	KDB Publication 662911 D01v02r01	Emissions Testing of Transmitters with Multiple Outputs in the Same Band (e.g., MIMO, Smart Antenna, etc)
3	ANSI C63.10-2013	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices
4	KDB Publication 558074 D01v05r02	GUIDANCE FOR COMPLIANCE MEASUREMENTS ON DIGITAL TRANSMISSION SYSTEM, FREQUENCY HOPPING SPREAD SPECTRUM SYSTEM, AND HYBRID SYSTEM DEVICES OPERATING UNDER SECTION 15.247 OF THE FCC RULES

3.2 Test Verdict

No.	Description	FCC PART No.	Test Result	Verdict
1	Antenna Requirement	15.203	N/A	Pass ^{Note 1}
2	Output Power	15.247 (b)	ANNEX A.1	Pass
3	Occupied Bandwidth	15.247 (a)	ANNEX A.2	Pass
4	Conducted Spurious Emission	15.247 (d)	ANNEX A.3	Pass
5	Band Edge(Authorized-band band-edge)	15.247 (d)	ANNEX A.4	Pass
6	Conducted Emission	15.207	ANNEX A.5	Pass
7	Radiated Spurious Emission	15.209; 15.247 (d)	ANNEX A.6	Pass
8	Band Edge(Restricted-band band-edge)	15.209; 15.247 (d)	ANNEX A.7	Pass
9	Power spectral density (PSD)	15.247 (e)	ANNEX A.8	Pass

Note 1: The EUT has a permanently and irreplaceable attached antenna, which complies with the requirement FCC 15.203.

4 GENERAL TEST CONFIGURATIONS

4.1 Test Environments

During the measurement, the normal environmental conditions were within the listed ranges:

Relative Humidity	42% to 68%	
Atmospheric Pressure	100 kPa to 102 kPa	
Temperature	NT (Normal Temperature)	+20.6℃ to +26.0℃
Working Voltage of the EUT	NV (Normal Voltage)	220 V

4.2 Test Equipment List

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer	KEYSIGHT	N9020A	MY50330200	2024.05.08	2025.05.07
Power Sensor	KEYSIGHT	U2063XA	MY58000251	2024.07.04	2025.07.03
Spectrum Analyzer	KEYSIGHT	N9020A	MY52510065	2024.08.01	2025.07.31
Test Antenna-Horn	SCHWARZBECK	BBHA 9120D	01631	2022.02.23	2025.02.22
Test Antenna-Horn	A-INFO	LB-180400KF	J211060273	2024.06.15	2027.06.14
Anechoic Chamber	RAINFORD	9m*6m*6m	144	2022.02.19	2025.09.03
Amplifier	COM-MV	LSCX_LNA1-12G-01	180602	2024.08.01	2025.07.31
Amplifier	COM-MV	XKu_LNA7-18G-01	180601	2024.08.01	2025.07.31
EMI Receiver	ROHDE&SCHWARZ	ESRP	101036	2024.08.01	2025.07.31
Test Antenna-Loop	SCHWARZBECK	FMZB 1519	1519-037	2024.01.23	2025.01.22
Amplifier	COM-MV	ZT30-1000M	B2018054558	2023.12.05	2024.12.04
Anechoic Chamber	EMC Electronic Co., Ltd	20.10*11.60*7.35m	130	2024.07.13	2027.07.12
EMI Receiver	Agilent	N9038A	MY55330120	2024.08.01	2025.07.31
Test Antenna-Bi-Log	SCHWARZBECK	VULB 9168	9168-00867	2022.04.12	2025.04.11
Amplifier	COM-MV	ZT30-1000M	B2017119081	2023.12.05	2024.12.04
Anechoic Chamber	YiHeng	9m*6m*6m	142	2024.07.21	2027.07.20
EMI Receiver	KEYSIGHT	N9010B	MY57110309	2024.08.01	2025.07.31
LISN	SCHWARZBECK	NSLK 8127	8127-687	2024.05.09	2025.05.08
Shielded Enclosure	YiHeng Electronic Co., Ltd	3.5m*3.1m*2.8m	112	2022.02.19	2025.02.18

Ancillary Equipment 1	Laptop	
	Brand Name	HP
	Model No.	N/A
	Serial No.	5CD128J8VO
Ancillary Equipment 2	Displayer	
	Brand Name	Skyworth
	Model No.	M245F
	Serial No.	RC02731

4.3 Test Software List

Description	Manufacturer	Software Version	Serial No.	Applicable test Setup
BL410R	BALUN	V2.1.1.488	N/A	The section 4.5.1
BL410E	BALUN	V22.930	N/A	The section 4.5.2&4.5.3&4.5.4&4.5.5

4.4 Measurement Uncertainty

The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2.

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Parameters	Uncertainty
Occupied Channel Bandwidth	2.8%
RF output power, conducted	1.28 dB
Power Spectral Density, conducted	1.30 dB
Unwanted Emissions, conducted	1.84 dB
All emissions, radiated	5.36 dB
Temperature	0.8℃
Humidity	4%

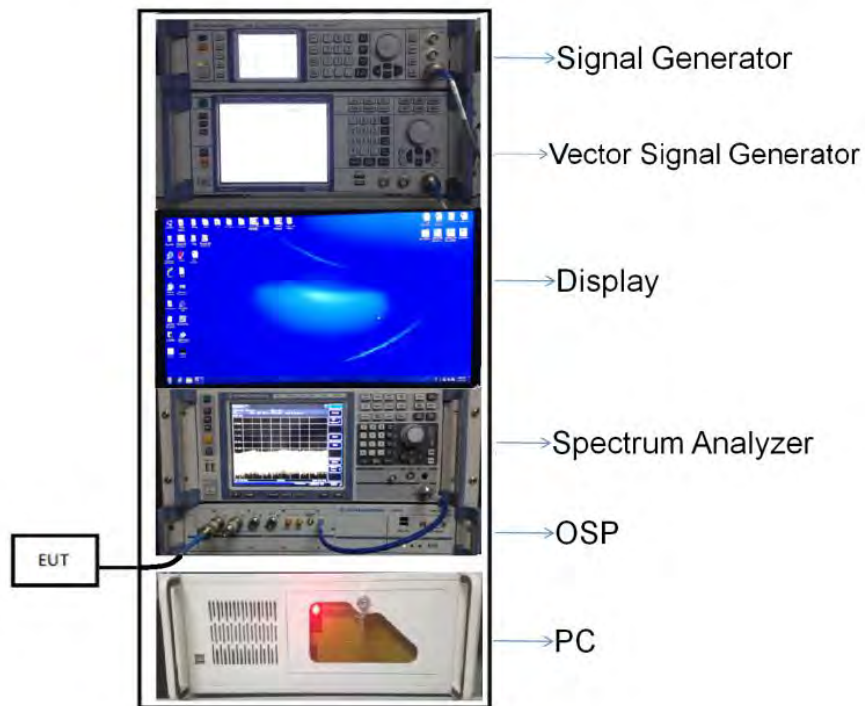
4.5 Description of Test Setup

4.5.1 For Antenna Port Test

Conducted value (dBm) = Measurement value (dBm) + cable loss (dB)

For example: the measurement value is 10 dBm and the cable 0.5dBm used, then the final result of EUT:

Conducted value (dBm) = 10 dBm + 0.5 dB = 10.5 dBm



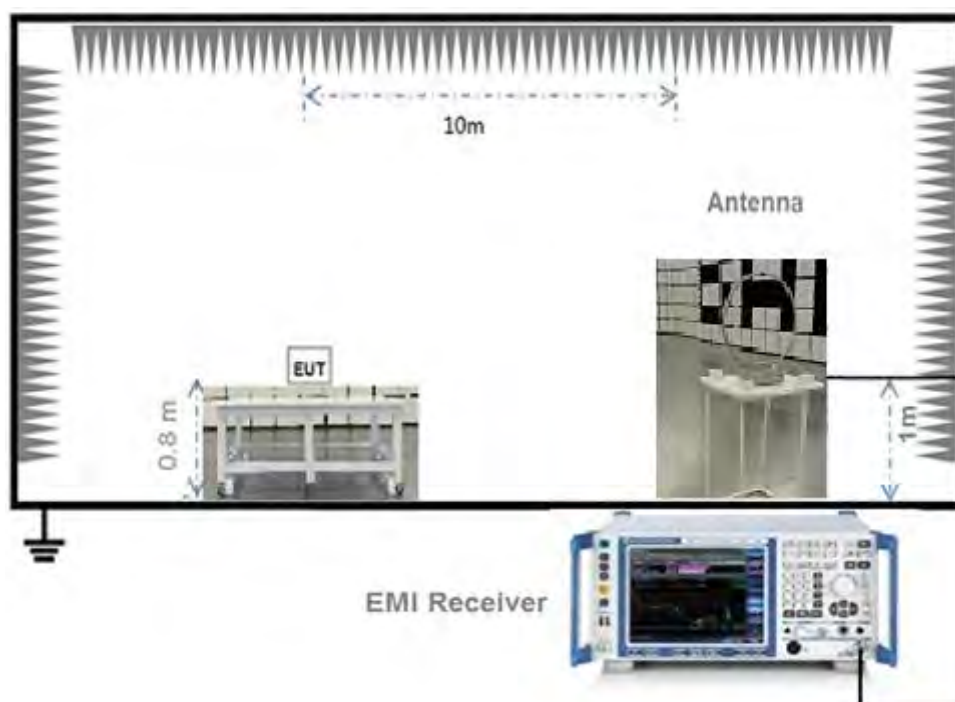
(Diagram 1)

4.5.2 For AC Power Supply Port Test



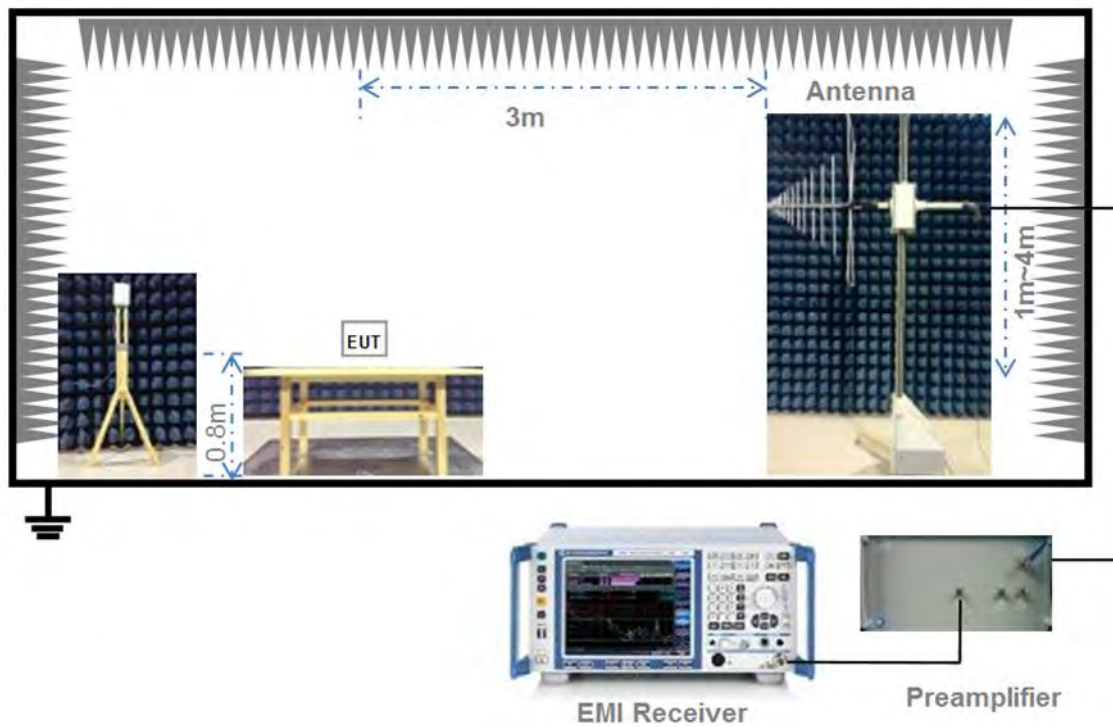
(Diagram 2)

4.5.3 For Radiated Test (Below 30 MHz)



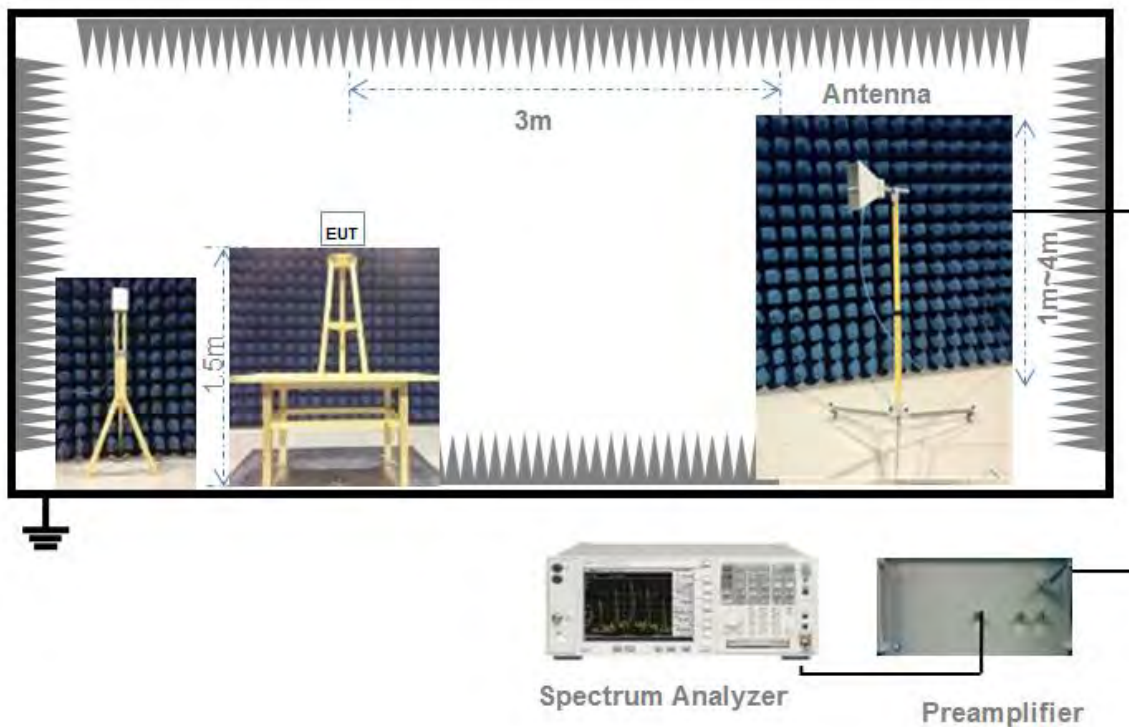
(Diagram 3)

4.5.4 For Radiated Test (30 MHz-1 GHz)



(Diagram 4)

4.5.5 For Radiated Test (Above 1 GHz)



(Diagram 5)

4.6 Measurement Results Explanation Example

4.6.1 For conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

4.6.2 For radiated band edges and spurious emission test:

$$E = \text{EIRP} - 20\log D + 104.8$$

where:

E = electric field strength in dB μ V/m,

EIRP = equivalent isotropic radiated power in dBm

D = specified measurement distance in meters.

EIRP = Measure Conducted output power Value (dBm) + Maximum transmit antenna gain (dBi) + the appropriate maximum ground reflection factor (dB)

5 TEST ITEMS

5.1 Antenna Requirements

5.1.1 Relevant Standards

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, or § 15.221. 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.

If directional gain of transmitting antennas is greater than 6 dBi, the power shall be reduced by the same level in dB comparing to gain minus 6 dBi. For the fixed point-to-point operation, the power shall be reduced by one dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi. 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 FCC rule.

5.1.2 Antenna Anti-Replacement Construction

The Antenna Anti-Replacement as following method:

Protected Method	Description
The antenna is embedded in the product.	An embedded-in antenna design is used.

Reference Documents	Item
Photo	Please refer to the EUT Photo documents.

5.1.3 Antenna Gain

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.

5.2 Output Power

5.2.1 Test Limit

FCC § 15.247(b)

For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements.

5.2.2 Test Setup

See section 4.5.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.2.3 Test Procedure

Maximum peak conducted output power

The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall utilize a fast-responding diode detector.

The EUT shall be transmitted at its maximum power control level.

Maximum conducted (average) output power (Reporting Only)

a) As an alternative to spectrum analyzer or EMI receiver measurements, measurements may be performed using a wideband RF power meter with a thermocouple detector or equivalent if all of the conditions listed below are satisfied.

- 1) The EUT is configured to transmit continuously, or to transmit with a constant duty factor.
 - 2) At all times when the EUT is transmitting, it shall be transmitting at its maximum power control level.
 - 3) The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five.
- b) If the transmitter does not transmit continuously, measure the duty cycle (x) of the transmitter output signal.
- c) Measure the average power of the transmitter. This measurement is an average over both the on and off periods of the transmitter.
- d) Adjust the measurement in dBm by adding $10\log(1/x)$, where x is the duty cycle.

Measurements of duty cycle

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.

Set the center frequency of the instrument to the center frequency of the transmission.

Set $RBW \geq OBW$ if possible; otherwise, set RBW to the largest available value.

Set $VBW \geq RBW$. Set detector = peak or average.

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 duty cycle shall not be used if $T \leq 16.7$ microseconds.)

5.2.4 Test Result

Please refer to ANNEX A.1.

5.3 Occupied Bandwidth

5.3.1 Limit

FCC §15.247(a)

Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. In order to make an accurate measurement, set the span greater than RBW. The 6 dB bandwidth must be greater than 500 kHz.

5.3.2 Test Setup

See section 4.5.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.3.3 Test Procedure

Use the following spectrum analyzer settings:

Set RBW = 100 kHz.

Set the video bandwidth (VBW) ≥ 3 RBW.

Detector = Peak.

Trace mode = max hold.

Sweep = auto couple.

Allow the trace to stabilize.

Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

5.3.4 Test Result

Please refer to ANNEX A.2.

5.4 Conducted Spurious Emission

5.4.1 Limit

FCC §15.247(d)

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

5.4.2 Test Setup

See section 4.5.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.4.3 Test Procedure

The DTS rules specify that in any 100 kHz bandwidth outside of the authorized frequency band, the power shall be attenuated according to the following conditions:

- a) If the maximum peak conducted output power procedure was used to demonstrate compliance as described in 9.1, then the peak output power measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz (i.e., 20 dBc).
- b) If maximum conducted (average) output power was used to demonstrate compliance as described in 9.2, then the peak power in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum in-band peak PSD level in 100 kHz (i.e., 30 dBc).
- c) In either case, attenuation to levels below the 15.209 general radiated emissions limits is not required.

The following procedures shall be used to demonstrate compliance to these limits. Note that these procedures can be used in either an antenna-port conducted or radiated test set-up. Radiated tests must conform to the test site requirements and utilize maximization procedures defined herein.

Reference level measurement

Establish a reference level by using the following procedure:

Set instrument center frequency to DTS channel center frequency.

Set the span to ≥ 1.5 times the DTS bandwidth.

Set the RBW = 100 kHz.

Set the VBW $\geq 3 \times$ RBW.

Detector = peak.

Sweep time = auto couple.

Trace mode = max hold.

Allow trace to fully stabilize.

Use the peak marker function to determine the maximum PSD level.

Emission level measurement

Use the following spectrum analyzer settings:

Span = wide enough to capture the peak level of the in-band emission and all spurious emissions (e.g., harmonics) from the lowest frequency generated in the EUT up through the 10th harmonic. Typically, several plots are required to cover this entire span.

Set the RBW = 100 kHz.

Set the VBW $\geq 3 \times$ RBW.

Detector = peak.

Sweep time = auto couple.

Trace mode = max hold.

Allow trace to fully stabilize.

Use the peak marker function to determine the maximum amplitude level.

Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) are attenuated by at least the minimum requirements specified in 11.1 a) or 11.1 b). Report the three highest emissions relative to the limit.

5.4.4 Test Result

Please refer to ANNEX A.3.

5.5 Band Edge (Authorized-band band-edge)

5.5.1 Limit

FCC §15.247(d)

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

5.5.2 Test Setup

See section 4.5.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.5.3 Test Procedure

The following procedures may be used to determine the peak or average field strength or power of an unwanted emission that is within 2 MHz of the authorized band edge. If a peak detector is utilized, use the procedure described in 13.2.1. Use the procedure described in 13.2.2 when using an average detector and the EUT can be configured to transmit continuously (i.e., duty cycle $\geq 98\%$). Use the procedure described in 13.2.3 when using an average detector and the EUT cannot be configured to transmit continuously but the duty cycle is constant (i.e., duty cycle variations are less than ± 2 percent). Use the procedure described in 13.2.4 when using an average detector for those cases where the EUT cannot be configured to transmit continuously and the duty cycle is not constant (duty cycle variations equal or exceed 2 percent).

When using a peak detector to measure unwanted emissions at or near the band edge (within 2 MHz of the authorized band), the following integration procedure can be used.

Set instrument center frequency to the frequency of the emission to be measured (must be within 2 MHz of the authorized band edge).

Set span to 2 MHz

RBW = 100 kHz.

VBW $\geq 3 \times$ RBW.

Detector = peak.

Sweep time = auto.

Trace mode = max hold.

Allow sweep to continue until the trace stabilizes (required measurement time may increase for low duty cycle applications)

Compute the power by integrating the spectrum over 1 MHz using the analyzer's band power measurement function with band limits set equal to the emission frequency (femission) ± 0.5 MHz. If the instrument does not have a band power function, then sum the amplitude levels (in power units) at 100 kHz intervals extending across the 1 MHz spectrum defined by femission ± 0.5 MHz.

Standard method(The 99% OBW of the fundamental emission is without 2 MHz of the authorized band):

Span: Wide enough to capture the peak level of the emission operating on the channel closest to the band edge, as well as any modulation products that fall outside of the authorized band of operation.

Reference level: As required to keep the signal from exceeding the maximum instrument input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than $[10 \log (\text{OBW/RBW})]$ below the reference level. Specific guidance is given in 4.1.5.2.

Attenuation: Auto (at least 10 dB preferred).

Sweep time: Coupled.

Resolution bandwidth: 100 kHz.

Video bandwidth: 300 kHz.

Detector: Peak.

Trace: Max hold.

5.5.4 Test Result

Please refer to ANNEX A.4.

5.6 Conducted Emission

5.6.1 Limit

FCC §15.207

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 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 Ω line impedance stabilization network (LISN).

Frequency range (MHz)	Conducted Limit (dB μ V)	
	Quai-peak	Average
0.15 - 0.50	66 to 56	56 to 46
0.50 - 5	56	46
0.50 - 30	60	50

5.6.2 Test Setup

See section 4.5.2 for test setup description for the AC power supply port. The photo of test setup please refer to ANNEX B.

5.6.3 Test Procedure

The maximum conducted interference is searched using Peak (PK), if the emission levels more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed. Refer to recorded points and plots below.

Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 50/60 Hz and 240 VAC, 50/60 Hz) for which the device is capable of operation. A device rated for 50/60 Hz operation need not be tested at both frequencies provided the radiated and line conducted emissions are the same at both frequencies.

5.6.4 Test Result

Please refer to ANNEX A.5.

5.7 Radiated Spurious Emission

5.7.1 Limit

FCC §15.209&15.247(d)

Radiated emission outside the frequency band attenuation below the general limits specified in FCC section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in FCC section 15.205(a), must also comply with the radiated emission limits specified in FCC section 15.209(a).

According to FCC section 15.209 (a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength ($\mu\text{V}/\text{m}$)	Measurement Distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 - 30.0	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

Note:

1. For Above 1000 MHz, the emission limit in this paragraph is based on measurement instrumentation employing an average detector, measurement using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit.
2. For above 1000 MHz, limit field strength of harmonics: 54dBuV/m@3m (AV) and 74dBuV/m@3m (PK).

5.7.2 Test Setup

See section 4.5.3 to 4.5.5 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.7.3 Test Procedure

Since the emission limits are specified in terms of radiated field strength levels, measurements performed to demonstrate compliance have traditionally relied on a radiated test configuration. Radiated measurements remain the principal method for demonstrating compliance to the specified limits; however antenna-port conducted measurements are also now acceptable to demonstrate compliance (see below for details). When radiated measurements are utilized, test site requirements and procedures for maximizing and measuring radiated emissions that are described in ANSI C63.10 shall be followed.

Antenna-port conducted measurements may also be used as an alternative to radiated measurements for demonstrating compliance in the restricted frequency bands. If conducted measurements are performed, then proper impedance matching must be ensured and an additional radiated test for cabinet/case spurious emissions is required.

General Procedure for conducted measurements in restricted bands

- a) Measure the conducted output power (in dBm) using the detector specified (see guidance regarding measurement procedures for determining quasi-peak, peak, and average conducted output power, respectively).
- b) Add the maximum transmit antenna gain (in dBi) to the measured output power level to determine the EIRP level (see guidance on determining the applicable antenna gain)
- c) Add the appropriate maximum ground reflection factor to the EIRP level (6 dB for frequencies ≤ 30 MHz, 4.7 dB for frequencies between 30 MHz and 1000 MHz, inclusive and 0 dB for frequencies > 1000 MHz).
- d) For devices with multiple antenna-ports, measure the power of each individual chain and sum the EIRP of all chains in linear terms (e.g., Watts, mW).
- e) Convert the resultant EIRP level to an equivalent electric field strength using the following relationship:

$$E = \text{EIRP} - 20\log D + 104.8$$

where:

E = electric field strength in dB μ V/m,

EIRP = equivalent isotropic radiated power in dBm

D = specified measurement distance in meters.

- f) Compare the resultant electric field strength level to the applicable limit.
- g) Perform radiated spurious emission test.

Quasi-Peak measurement procedure

The specifications for measurements using the CISPR quasi-peak detector can be found in Publication 16 of the International Special Committee on Radio Frequency Interference (CISPR) of the International Electrotechnical Commission.

As an alternative to CISPR quasi-peak measurement, compliance can be demonstrated to the applicable emission limits using a peak detector.

Peak power measurement procedure

Peak emission levels are measured by setting the instrument as follows:

- a) RBW = as specified in Table 1.
- b) VBW $\geq 3 \times$ RBW.
- c) Detector = Peak.
- d) Sweep time = auto.
- e) Trace mode = max hold.
- f) Allow sweeps to continue until the trace stabilizes. (Note that the required measurement time may be

longer for low duty cycle applications).

Table 1—RBW as a function of frequency

Frequency	RBW
9-150 kHz	200-300 Hz
0.15-30 MHz	9-10 kHz
30-1000 MHz	100-120 kHz
> 1000 MHz	1 MHz

If the peak-detected amplitude can be shown to comply with the average limit, then it is not necessary to perform a separate average measurement.

Trace averaging across on and off times of the EUT transmissions followed by duty cycle correction

If continuous transmission of the EUT (i.e., duty cycle ≥ 98 percent) cannot be achieved and the duty cycle is constant (i.e., duty cycle variations are less than ± 2 percent), then the following procedure shall be used:

- a) The EUT shall be configured to operate at the maximum achievable duty cycle.
- b) Measure the duty cycle, x , of the transmitter output signal as described in section 6.0.
- c) RBW = 1 MHz (unless otherwise specified).
- d) VBW $\geq 3 \times$ RBW.
- e) Detector = RMS, if $\text{span}/(\# \text{ of points in sweep}) \leq (\text{RBW}/2)$. Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak.
- f) Averaging type = power (i.e., RMS).
 - 1) As an alternative, the detector and averaging type may be set for linear voltage averaging.
 - 2) Some instruments require linear display mode in order to use linear voltage averaging. Log or dB averaging shall not be used.
- g) Sweep time = auto.
- h) Perform a trace average of at least 100 traces.
- i) A correction factor shall be added to the measurement results prior to comparing to the emission limit in order to compute the emission level that would have been measured had the test been performed at 100 percent duty cycle. The correction factor is computed as follows:
 - 1) If power averaging (RMS) mode was used in step f), then the applicable correction factor is $10 \log(1/x)$, where x is the duty cycle.
 - 2) If linear voltage averaging mode was used in step f), then the applicable correction factor is $20 \log(1/x)$, where x is the duty cycle.
 - 3) If a specific emission is demonstrated to be continuous (≥ 98 percent duty cycle) rather than turning on and off with the transmit cycle, then no duty cycle correction is required for that emission.

NOTE: Reduction of the measured emission amplitude levels to account for operational duty factor is not permitted. Compliance is based on emission levels occurring during transmission - not on an average across on and off times of the transmitter.

Determining the applicable transmit antenna gain

A conducted power measurement will determine the maximum output power associated with a restricted band emission; however, in order to determine the associated EIRP level, the gain of the transmitting antenna (in dBi) must be added to the measured output power (in dBm).

Since the out-of-band characteristics of the EUT transmit antenna will often be unknown, the use of a conservative antenna gain value is necessary. Thus, when determining the EIRP based on the measured conducted power, the upper bound on antenna gain for a device with a single RF output shall be selected as the maximum in-band gain of the antenna across all operating bands, or 2 dBi, whichever is greater. However, for devices that operate in multiple frequency bands while using the same transmit antenna, the highest gain of the antenna within the operating band nearest in frequency to the restricted band emission being measured may be used in lieu of the overall highest gain when the emission is at a frequency that is within 20 percent of the nearest band edge frequency, but in no case shall a value less than 2 dBi be used.

See KDB 662911 for guidance on calculating the additional array gain term when determining the effective antenna gain for a EUT with multiple outputs occupying the same or overlapping frequency ranges in the same band.

Radiated spurious emission test

An additional consideration when performing conducted measurements of restricted band emissions is that unwanted emissions radiating from the EUT cabinet, control circuits, power leads, or intermediate circuit elements will likely go undetected in a conducted measurement configuration. To address this concern, a radiated test shall be performed to ensure that emissions emanating from the EUT cabinet (rather than the antenna port) also comply with the applicable limits.

For these cabinet radiated spurious emission measurements the EUT transmit antenna may be replaced with a termination matching the nominal impedance of the antenna. Procedures for performing radiated measurements are specified in ANSI C63.10. All detected emissions shall comply with the applicable limits.

The measurement frequency range is from 30 MHz to the 10th harmonic of the fundamental frequency. The Turn Table is actuated to turn from 0° to 360°, and both horizontal and vertical polarizations of the Test Antenna are used to find the maximum radiated power. Mid channels on all channel bandwidth verified. Only the worst RB size/offset presented.

The power of the EUT transmitting frequency should be ignored.

All Spurious Emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

Use the following spectrum analyzer settings:

Span = wide enough to fully capture the emission being measured

RBW = 1 MHz for $f \geq 1$ GHz, 100 kHz for $f < 1$ GHz

VBW $\geq$ RBW

Sweep = auto

Detector function = peak

Trace = max hold

5.7.4 Test Result

Please refer to ANNEX A.6.

5.8 Band Edge (Restricted-band band-edge)

5.8.1 Limit

FCC §15.209&15.247(d)

Radiated emission outside the frequency band attenuation below the general limits specified in FCC section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in FCC section 15.205(a), must also comply with the radiated emission limits specified in FCC section 15.209(a).

5.8.2 Test Setup

See section 4.5.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.8.3 Test Procedure

The measurement frequency range is from 9 kHz to the 10th harmonic of the fundamental frequency. The Turn Table is actuated to turn from 0° to 360°, and both horizontal and vertical polarizations of the Test Antenna are used to find the maximum radiated power. Mid channels on all channel bandwidth verified. Only the worst RB size/offset presented.

The power of the EUT transmitting frequency should be ignored.

All Spurious Emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

Use the following spectrum analyzer settings:

Span = wide enough to fully capture the emission being measured

RBW = 1 MHz for $f \geq 1$ GHz, 100 kHz for $f < 1$ GHz

VBW $\geq$ RBW

Sweep = auto

Detector function = peak

Trace = max hold

For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported, Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

For transmitters operating above 1 GHz repeat the measurement with an average detector.

5.8.4 Test Result

Please refer to ANNEX A.7.

5.9 Power Spectral density (PSD)

5.9.1 Limit

FCC §15.247(e)

The same method of determining the conducted output power shall be used to determine the power spectral density. If a peak output power is measured, then a peak power spectral density measurement is required. If an average output power is measured, then an average power spectral density measurement should be used.

5.9.2 Test Setup

See section 4.5.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.9.3 Test Procedure

Set analyzer center frequency to DTS channel center frequency.

Set the span to 1.5 times the DTS bandwidth.

Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.

Set the VBW $\geq 3 \text{ RBW}$.

Detector = peak.

Sweep time = auto couple.

Trace mode = max hold.

Allow trace to fully stabilize.

Use the peak marker function to determine the maximum amplitude level within the RBW.

If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

5.9.4 Test Result

Please refer to ANNEX A.8.

ANNEX A TEST RESULT

A.1 Output Power

Duty Cycle

Test Mode	On Time (ms)	On+Off time (ms)	Duty Cycle	Duty Factor
802.11b	8.33	8.79	94.77%	0.23
802.11g	1.391	1.776	78.32%	1.06
802.11n-20 MHz	1.284	1.697	75.66%	1.21
802.11n-40 MHz	0.6409	1.038	61.74%	2.09
802.11ax-20 MHz	0.5551	0.9399	59.06%	2.29
802.11ax-40 MHz	0.315	0.695	45.32%	3.44

Peak Power Test DataSISO-Main Antenna

802.11b Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	19.45	88.10	30	1000	Pass
Middle	19.32	85.51			Pass
High	18.73	74.64			Pass

802.11g Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	25.18	329.61	30	1000	Pass
Middle	27.93	620.87			Pass
High	24.98	314.77			Pass

802.11n-20 MHz Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	24.53	283.79	30	1000	Pass
Middle	27.24	529.66			Pass
High	24.56	285.76			Pass

802.11n-40 MHz Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	23.35	216.27	30	1000	Pass
Middle	26.28	424.62			Pass
High	23.12	205.12			Pass

802.11ax-20 MHz(SU) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	26.63	460.26	30	1000	Pass
Middle	29.26	843.33			Pass
High	26.37	433.51			Pass

802.11ax-40 MHz(SU) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	25.38	345.14	30	1000	Pass
Middle	28.15	653.13			Pass
High	25.90	389.05			Pass

802.11ax-20 MHz(RU26) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	22.63	183.23	30	1000	Pass
Middle	22.68	185.35			Pass
High	22.36	172.19			Pass

802.11ax-20 MHz(RU52) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	22.43	174.98	30	1000	Pass
Middle	22.40	173.78			Pass
High	22.54	179.47			Pass

802.11ax-20 MHz(RU106) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	22.33	171.00	30	1000	Pass
Middle	22.40	173.78			Pass
High	22.77	189.23			Pass

802.11ax-40 MHz(RU26) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	22.73	187.50	30	1000	Pass
Middle	22.51	178.24			Pass
High	22.35	171.79			Pass

802.11ax-40 MHz(RU52) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	22.71	186.64	30	1000	Pass
Middle	22.59	181.55			Pass
High	22.27	168.66			Pass

802.11ax-40 MHz(RU106) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	22.44	175.39	30	1000	Pass
Middle	22.25	167.88			Pass
High	22.67	184.93			Pass

802.11ax-40 MHz(RU242) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	22.20	165.96	30	1000	Pass
Middle	22.36	172.19			Pass
High	22.76	188.80			Pass

SISO-Aux. Antenna

802.11b Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	18.56	71.78	30	1000	Pass
Middle	18.84	76.56			Pass
High	18.45	69.98			Pass

802.11g Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	24.86	306.20	30	1000	Pass
Middle	25.96	394.46			Pass
High	24.01	251.77			Pass

802.11n-20 MHz Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	24.58	287.08	30	1000	Pass
Middle	26.57	453.94			Pass
High	23.96	248.89			Pass

802.11n-40 MHz Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	22.17	164.82	30	1000	Pass
Middle	24.93	311.17			Pass
High	22.51	178.24			Pass

802.11ax-20 MHz(SU) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	25.04	319.15	30	1000	Pass
Middle	27.45	555.90			Pass
High	24.15	260.02			Pass

802.11ax-40 MHz(SU) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	24.58	287.08	30	1000	Pass
Middle	26.77	475.34			Pass
High	24.58	287.08			Pass

802.11ax-20 MHz(RU26) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	22.44	175.39	30	1000	Pass
Middle	22.49	177.42			Pass
High	22.18	165.20			Pass

802.11ax-20 MHz(RU52) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	22.24	167.49	30	1000	Pass
Middle	22.22	166.72			Pass
High	22.30	169.82			Pass

802.11ax-20 MHz(RU106) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	22.13	163.31	30	1000	Pass
Middle	22.18	165.20			Pass
High	22.62	182.81			Pass

802.11ax-40 MHz(RU26) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	22.56	180.30	30	1000	Pass
Middle	22.29	169.43			Pass
High	22.16	164.44			Pass

802.11ax-40 MHz(RU52) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	22.47	176.60	30	1000	Pass
Middle	22.45	175.79			Pass
High	22.04	159.96			Pass

802.11ax-40 MHz(RU106) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	22.20	165.96	30	1000	Pass
Middle	22.09	161.81			Pass
High	22.50	177.83			Pass

802.11ax-40 MHz(RU242) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	22.00	158.49	30	1000	Pass
Middle	22.17	164.82			Pass
High	22.62	182.81			Pass

MIMO-Main Antenna

802.11b Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	16.85	48.42	30	1000	Pass
Middle	16.53	44.98			Pass
High	15.67	36.90			Pass

802.11g Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	22.21	166.34	30	1000	Pass
Middle	24.68	293.76			Pass
High	22.35	171.79			Pass

802.11n-20 MHz Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	21.36	136.77	30	1000	Pass
Middle	24.88	307.61			Pass
High	22.01	158.85			Pass

802.11n-40 MHz Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	19.65	92.26	30	1000	Pass
Middle	23.56	226.99			Pass
High	20.11	102.57			Pass

802.11ax-20 MHz(SU) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	22.96	197.70	30	1000	Pass
Middle	26.35	431.52			Pass
High	22.99	199.07			Pass

802.11ax-40 MHz(SU) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	21.68	147.23	30	1000	Pass
Middle	23.57	227.51			Pass
High	22.47	176.60			Pass

802.11ax-20 MHz(RU26) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	19.58	90.78	30	1000	Pass
Middle	19.63	91.83			Pass
High	19.32	85.51			Pass

802.11ax-20 MHz(RU52) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	19.38	86.70	30	1000	Pass
Middle	19.36	86.30			Pass
High	19.44	87.90			Pass

802.11ax-20 MHz(RU106) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	19.27	84.53	30	1000	Pass
Middle	19.32	85.51			Pass
High	19.76	94.62			Pass

802.11ax-40 MHz(RU26) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	19.70	93.33	30	1000	Pass
Middle	19.43	87.70			Pass
High	19.30	85.11			Pass

802.11ax-40 MHz(RU52) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	19.61	91.41	30	1000	Pass
Middle	19.59	90.99			Pass
High	19.18	82.79			Pass

802.11ax-40 MHz(RU106) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	19.34	85.90	30	1000	Pass
Middle	19.23	83.75			Pass
High	19.64	92.04			Pass

802.11ax-40 MHz(RU242) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	19.14	82.04	30	1000	Pass
Middle	19.31	85.31			Pass
High	19.76	94.62			Pass

MIMO-Aux. Antenna

802.11b Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	15.68	36.98	30	1000	Pass
Middle	15.87	38.64			Pass
High	15.64	36.64			Pass

802.11g Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	21.67	146.89	30	1000	Pass
Middle	23.32	214.78			Pass
High	21.47	140.28			Pass

802.11n-20 MHz Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	20.68	116.95	30	1000	Pass
Middle	23.51	224.39			Pass
High	20.44	110.66			Pass

802.11n-40 MHz Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	20.12	102.80	30	1000	Pass
Middle	22.17	164.82			Pass
High	20.96	124.74			Pass

802.11ax-20 MHz(SU) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	21.68	147.23	30	1000	Pass
Middle	25.47	352.37			Pass
High	22.35	171.79			Pass

802.11ax-40 MHz(SU) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	21.54	142.56	30	1000	Pass
Middle	23.51	224.39			Pass
High	21.07	127.94			Pass

802.11ax-20 MHz(RU26) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	19.44	87.90	30	1000	Pass
Middle	19.49	88.92			Pass
High	19.18	82.79			Pass

802.11ax-20 MHz(RU52) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	19.24	83.95	30	1000	Pass
Middle	19.22	83.56			Pass
High	19.30	85.11			Pass

802.11ax-20 MHz(RU106) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	19.13	81.85	30	1000	Pass
Middle	19.18	82.79			Pass
High	19.62	91.62			Pass

802.11ax-40 MHz(RU26) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	19.56	90.36	30	1000	Pass
Middle	19.29	84.92			Pass
High	19.16	82.41			Pass

802.11ax-40 MHz(RU52) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	19.47	88.51	30	1000	Pass
Middle	19.45	88.10			Pass
High	19.04	80.17			Pass

802.11ax-40 MHz(RU106) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	19.20	83.18	30	1000	Pass
Middle	19.09	81.10			Pass
High	19.50	89.13			Pass

802.11ax-40 MHz(RU242) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	19.00	79.43	30	1000	Pass
Middle	19.17	82.60			Pass
High	19.62	91.62			Pass

MIMO**802.11b Mode:**

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	19.31	85.40	30	1000	Pass
Middle	19.22	83.61			Pass
High	18.67	73.54			Pass

802.11g Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	24.96	313.23	30	1000	Pass
Middle	27.06	508.55			Pass
High	24.94	312.07			Pass

802.11n-20 MHz Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	24.04	253.72	30	1000	Pass
Middle	27.26	532.00			Pass
High	24.31	269.52			Pass

802.11n-40 MHz Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	22.90	195.06	30	1000	Pass
Middle	25.93	391.80			Pass
High	23.57	227.30			Pass

802.11ax-20 MHz(SU) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	25.38	344.93	30	1000	Pass
Middle	28.94	783.89			Pass
High	25.69	370.86			Pass

802.11ax-40 MHz(SU) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	24.62	289.79	30	1000	Pass
Middle	26.55	451.90			Pass
High	24.84	304.54			Pass

802.11ax-20 MHz(RU26) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	22.52	178.68	30	1000	Pass
Middle	22.57	180.75			Pass
High	22.26	168.30			Pass

802.11ax-20 MHz(RU52) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	22.32	170.64	30	1000	Pass
Middle	22.30	169.86			Pass
High	22.38	173.02			Pass

802.11ax-20 MHz(RU106) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	22.21	166.37	30	1000	Pass
Middle	22.26	168.30			Pass
High	22.70	186.25			Pass

802.11ax-40 MHz(RU26) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	22.64	183.69	30	1000	Pass
Middle	22.37	172.62			Pass
High	22.24	167.53			Pass

802.11ax-40 MHz(RU52) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	22.55	179.92	30	1000	Pass
Middle	22.53	179.10			Pass
High	22.12	162.96			Pass

802.11ax-40 MHz(RU106) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	22.28	169.08	30	1000	Pass
Middle	22.17	164.85			Pass
High	22.58	181.17			Pass

802.11ax-40 MHz(RU242) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	22.08	161.47	30	1000	Pass
Middle	22.25	167.91			Pass
High	22.70	186.25			Pass

Average Power Test DataSISO-Main Antenna

802.11b Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	16.23	41.98	30	1000	Pass
Middle	16.07	40.46			Pass
High	15.48	35.32			Pass

802.11g Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	16.16	41.30	30	1000	Pass
Middle	18.67	73.62			Pass
High	15.91	38.99			Pass

802.11n-20 MHz Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	15.52	35.65	30	1000	Pass
Middle	18.15	65.31			Pass
High	15.37	34.43			Pass

802.11n-40 MHz Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	13.02	20.04	30	1000	Pass
Middle	16.05	40.27			Pass
High	12.81	19.10			Pass

802.11ax-20 MHz(SU) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	15.13	32.58	30	1000	Pass
Middle	18.15	65.31			Pass
High	15.37	34.43			Pass

802.11ax-40 MHz(SU) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	13.34	21.58	30	1000	Pass
Middle	15.96	39.45			Pass
High	13.12	20.51			Pass

802.11ax-20 MHz(RU26) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	10.56	11.38	30	1000	Pass
Middle	10.73	11.83			Pass
High	10.49	11.19			Pass

802.11ax-20 MHz(RU52) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	10.64	11.59	30	1000	Pass
Middle	10.70	11.75			Pass
High	10.61	11.51			Pass

802.11ax-20 MHz(RU106) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	10.81	12.05	30	1000	Pass
Middle	10.86	12.19			Pass
High	10.81	12.05			Pass

802.11ax-40 MHz(RU26) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	10.53	11.30	30	1000	Pass
Middle	10.42	11.02			Pass
High	10.61	11.51			Pass

802.11ax-40 MHz(RU52) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	10.67	11.67	30	1000	Pass
Middle	10.64	11.59			Pass
High	10.74	11.86			Pass

802.11ax-40 MHz(RU106) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	10.82	12.08	30	1000	Pass
Middle	10.76	11.91			Pass
High	10.85	12.16			Pass

802.11ax-40 MHz(RU242) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	10.91	12.33	30	1000	Pass
Middle	10.85	12.16			Pass
High	10.97	12.50			Pass

SISO-Aux. Antenna

802.11b Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	15.78	37.84	30	1000	Pass
Middle	15.83	38.28			Pass
High	15.23	33.34			Pass

802.11g Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	15.72	37.33	30	1000	Pass
Middle	17.96	62.52			Pass
High	15.13	32.58			Pass

802.11n-20 MHz Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	15.00	31.62	30	1000	Pass
Middle	17.85	60.95			Pass
High	14.75	29.85			Pass

802.11n-40 MHz Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	12.56	18.03	30	1000	Pass
Middle	15.45	35.08			Pass
High	12.47	17.66			Pass

802.11ax-20 MHz(SU) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	14.82	30.34	30	1000	Pass
Middle	17.65	58.21			Pass
High	14.96	31.33			Pass

802.11ax-40 MHz(SU) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	13.05	20.18	30	1000	Pass
Middle	15.27	33.65			Pass
High	12.56	18.03			Pass

802.11ax-20 MHz(RU26) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	10.42	11.02	30	1000	Pass
Middle	10.59	11.46			Pass
High	10.35	10.84			Pass

802.11ax-20 MHz(RU52) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	10.50	11.22	30	1000	Pass
Middle	10.56	11.38			Pass
High	10.47	11.14			Pass

802.11ax-20 MHz(RU106) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	10.67	11.67	30	1000	Pass
Middle	10.72	11.80			Pass
High	10.67	11.67			Pass

802.11ax-40 MHz(RU26) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	10.39	10.94	30	1000	Pass
Middle	10.28	10.67			Pass
High	10.47	11.14			Pass

802.11ax-40 MHz(RU52) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	10.53	11.30	30	1000	Pass
Middle	10.50	11.22			Pass
High	10.60	11.48			Pass

802.11ax-40 MHz(RU106) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	10.68	11.69	30	1000	Pass
Middle	10.62	11.53			Pass
High	10.71	11.78			Pass

802.11ax-40 MHz(RU242) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	10.77	11.94	30	1000	Pass
Middle	10.71	11.78			Pass
High	10.83	12.11			Pass

MIMO-Main Antenna

802.11b Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	13.15	20.65	30	1000	Pass
Middle	13.09	20.37			Pass
High	12.86	19.32			Pass

802.11g Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	13.09	20.37	30	1000	Pass
Middle	15.69	37.07			Pass
High	12.93	19.63			Pass

802.11n-20 MHz Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	12.04	16.00	30	1000	Pass
Middle	15.17	32.89			Pass
High	12.39	17.34			Pass

802.11n-40 MHz Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	9.56	9.04	30	1000	Pass
Middle	13.07	20.28			Pass
High	9.86	9.68			Pass

802.11ax-20 MHz(SU) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	12.15	16.41	30	1000	Pass
Middle	15.17	32.89			Pass
High	12.45	17.58			Pass

802.11ax-40 MHz(SU) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	9.98	9.95	30	1000	Pass
Middle	12.98	19.86			Pass
High	10.20	10.47			Pass

802.11ax-20 MHz(RU26) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	7.56	5.70	30	1000	Pass
Middle	7.73	5.93			Pass
High	7.49	5.61			Pass

802.11ax-20 MHz(RU52) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	7.64	5.81	30	1000	Pass
Middle	7.70	5.89			Pass
High	7.61	5.77			Pass

802.11ax-20 MHz(RU106) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	7.81	6.04	30	1000	Pass
Middle	7.86	6.11			Pass
High	7.81	6.04			Pass

802.11ax-40 MHz(RU26) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	7.53	5.66	30	1000	Pass
Middle	7.42	5.52			Pass
High	7.61	5.77			Pass

802.11ax-40 MHz(RU52) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	7.67	5.85	30	1000	Pass
Middle	7.64	5.81			Pass
High	7.74	5.94			Pass

802.11ax-40 MHz(RU106) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	7.82	6.05	30	1000	Pass
Middle	7.76	5.97			Pass
High	7.85	6.10			Pass

802.11ax-40 MHz(RU242) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	7.91	6.18	30	1000	Pass
Middle	7.85	6.10			Pass
High	7.97	6.27			Pass

MIMO-Aux. Antenna

802.11b Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	12.74	18.79	30	1000	Pass
Middle	12.75	18.84			Pass
High	12.64	18.37			Pass

802.11g Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	12.68	18.54	30	1000	Pass
Middle	14.92	31.05			Pass
High	12.32	17.06			Pass

802.11n-20 MHz Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	11.96	15.70	30	1000	Pass
Middle	14.81	30.27			Pass
High	11.71	14.83			Pass

802.11n-40 MHz Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	9.56	9.04	30	1000	Pass
Middle	12.41	17.42			Pass
High	9.43	8.77			Pass

802.11ax-20 MHz(SU) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	11.66	14.66	30	1000	Pass
Middle	14.61	28.91			Pass
High	11.92	15.56			Pass

802.11ax-40 MHz(SU) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	9.56	9.04	30	1000	Pass
Middle	12.68	18.54			Pass
High	9.52	8.95			Pass

802.11ax-20 MHz(RU26) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	7.42	5.52	30	1000	Pass
Middle	7.59	5.74			Pass
High	7.35	5.43			Pass

802.11ax-20 MHz(RU52) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	7.50	5.62	30	1000	Pass
Middle	7.56	5.70			Pass
High	7.47	5.58			Pass

802.11ax-20 MHz(RU106) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	7.67	5.85	30	1000	Pass
Middle	7.72	5.92			Pass
High	7.67	5.85			Pass

802.11ax-40 MHz(RU26) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	7.39	5.48	30	1000	Pass
Middle	7.28	5.35			Pass
High	7.47	5.58			Pass

802.11ax-40 MHz(RU52) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	7.53	5.66	30	1000	Pass
Middle	7.50	5.62			Pass
High	7.60	5.75			Pass

802.11ax-40 MHz(RU106) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	7.68	5.86	30	1000	Pass
Middle	7.62	5.78			Pass
High	7.71	5.90			Pass

802.11ax-40 MHz(RU242) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	7.77	5.98	30	1000	Pass
Middle	7.71	5.90			Pass
High	7.83	6.07			Pass

MIMO**802.11b Mode:**

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	15.96	39.45	30	1000	Pass
Middle	15.93	39.21			Pass
High	15.76	37.69			Pass

802.11g Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	15.90	38.91	30	1000	Pass
Middle	18.33	68.11			Pass
High	15.65	36.69			Pass

802.11n-20 MHz Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	15.01	31.70	30	1000	Pass
Middle	18.00	63.15			Pass
High	15.07	32.16			Pass

802.11n-40 MHz Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	12.57	18.07	30	1000	Pass
Middle	15.76	37.69			Pass
High	12.66	18.45			Pass

802.11ax-20 MHz(SU) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	14.92	31.06	30	1000	Pass
Middle	17.91	61.79			Pass
High	15.20	33.14			Pass

802.11ax-40 MHz(SU) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	12.79	18.99	30	1000	Pass
Middle	15.84	38.40			Pass
High	12.88	19.42			Pass

802.11ax-20 MHz(RU26) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	10.50	11.22	30	1000	Pass
Middle	10.67	11.67			Pass
High	10.43	11.04			Pass

802.11ax-20 MHz(RU52) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	10.58	11.43	30	1000	Pass
Middle	10.64	11.59			Pass
High	10.55	11.35			Pass

802.11ax-20 MHz(RU106) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	10.75	11.89	30	1000	Pass
Middle	10.80	12.03			Pass
High	10.75	11.89			Pass

802.11ax-40 MHz(RU26) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	10.47	11.15	30	1000	Pass
Middle	10.36	10.87			Pass
High	10.55	11.35			Pass

802.11ax-40 MHz(RU52) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	10.61	11.51	30	1000	Pass
Middle	10.58	11.43			Pass
High	10.68	11.70			Pass

802.11ax-40 MHz(RU106) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	10.76	11.91	30	1000	Pass
Middle	10.70	11.75			Pass
High	10.79	12.00			Pass

802.11ax-40 MHz(RU242) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	10.85	12.16	30	1000	Pass
Middle	10.79	12.00			Pass
High	10.91	12.33			Pass

A.2 Occupied Bandwidth

Note ¹: All the configurations were pre tested, only the worst configuration has been reported in this report.

Note ²: All antenna were pre tested, but only the worst case has been reported in this report.

Test Data

SISO-Main Antenna

802.11b Mode:

Channel	6 dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limits (kHz)
Low	8.200000	12.580000	≥500
Middle	8.200000	12.590000	≥500
High	8.200000	12.620000	≥500

802.11g Mode:

Channel	6 dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limits (kHz)
Low	16.400000	17.640000	≥500
Middle	16.200000	18.043000	≥500
High	16.200000	17.666000	≥500

802.11n-20MHz Mode:

Channel	6 dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limits (kHz)
Low	17.400000	18.460000	≥500
Middle	17.200000	18.549000	≥500
High	16.800000	18.648000	≥500

802.11n-40MHz Mode:

Channel	6 dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limits (kHz)
Low	35.200000	36.505000	≥500
Middle	35.200000	36.670000	≥500
High	35.200000	36.566000	≥500

802.11ax-20 MHz(SU) Mode:

Channel	6 dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limits (kHz)
Low	18.800000	19.069000	≥500
Middle	18.500000	19.318000	≥500
High	18.800000	19.260000	≥500

802.11ax-40 MHz(SU) Mode:

Channel	6 dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limits (kHz)
Low	36.400000	37.709000	≥ 500
Middle	36.100000	37.743000	≥ 500
High	35.900000	37.710000	≥ 500

Test Plots

SISO-Main Antenna

6 dB Bandwidth

802.11b LOW CHANNEL



802.11b MIDDLE CHANNEL



802.11b HIGH CHANNEL



802.11g LOW CHANNEL



802.11g MIDDLE CHANNEL



802.11g HIGH CHANNEL



802.11n-20 MHz LOW CHANNEL



802.11n-20 MHz MIDDLE CHANNEL



802.11n-20 MHz HIGH CHANNEL



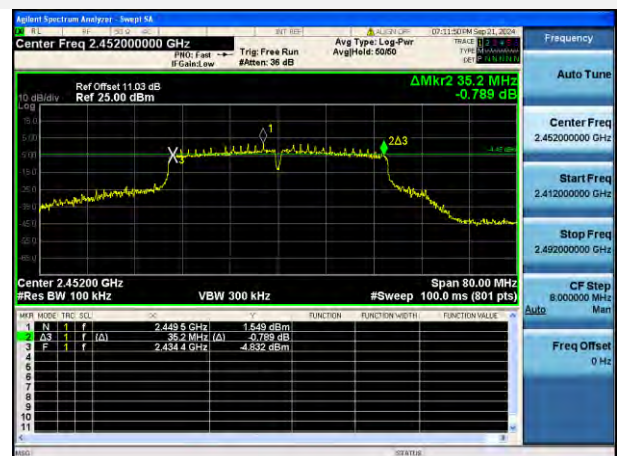
802.11n-40 MHz LOW CHANNEL



802.11n-40 MHz MIDDLE CHANNEL



802.11n-40 MHz HIGH CHANNEL



802.11ax-20 MHz(SU) LOW CHANNEL



802.11ax-20 MHz(SU) MIDDLE CHANNEL



802.11ax-20 MHz(SU) HIGH CHANNEL



802.11ax-40 MHz(SU) LOW CHANNEL



802.11ax-40 MHz(SU) MIDDLE CHANNEL



802.11ax-40 MHz(SU) HIGH CHANNEL



99% Bandwidth

802.11b LOW CHANNEL



802.11b MIDDLE CHANNEL



802.11b HIGH CHANNEL



802.11g LOW CHANNEL



802.11g MIDDLE CHANNEL



802.11g HIGH CHANNEL



802.11n-20 MHz LOW CHANNEL



802.11n-20 MHz MIDDLE CHANNEL



802.11n-20 MHz HIGH CHANNEL



802.11n-40 MHz LOW CHANNEL



802.11n-40 MHz MIDDLE CHANNEL



802.11n-40 MHz HIGH CHANNEL



802.11ax-20 MHz(SU) LOW CHANNEL



802.11ax-20 MHz(SU) MIDDLE CHANNEL



802.11ax-20 MHz(SU) HIGH CHANNEL



802.11ax-40 MHz(SU) LOW CHANNEL



802.11ax-40 MHz(SU) MIDDLE CHANNEL



802.11ax-40 MHz(SU) HIGH CHANNEL



A.3 Conducted Spurious Emissions

Note ¹: All the configurations were pre tested, only the worst configuration has been reported in this report.

Note ²: All antenna were pre tested, but only the worst case has been reported in this report.

Test Data

SISO-Main Antenna

802.11b Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-38.14	8.67	-11.33	Pass
Middle	-38.02	8.49	-11.51	Pass
High	-35.94	7.69	-12.32	Pass

802.11g Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-37.60	7.15	-12.85	Pass
Middle	-38.75	9.89	-10.11	Pass
High	-34.84	7.24	-12.76	Pass

802.11n-20MHz Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-38.04	6.48	-13.53	Pass
Middle	-35.79	9.42	-10.58	Pass
High	-38.57	6.68	-13.32	Pass

802.11n-40MHz Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-38.44	1.85	-18.15	Pass
Middle	-35.61	4.76	-15.24	Pass
High	-36.10	1.80	-18.20	Pass

802.11ax-20 MHz(SU) Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-36.36	6.91	-13.09	Pass
Middle	-34.97	10.15	-9.85	Pass
High	-36.17	7.52	-12.48	Pass

802.11ax-40 MHz(SU) Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-38.66	3.41	-16.59	Pass
Middle	-34.86	6.03	-13.97	Pass
High	-37.72	3.34	-16.66	Pass

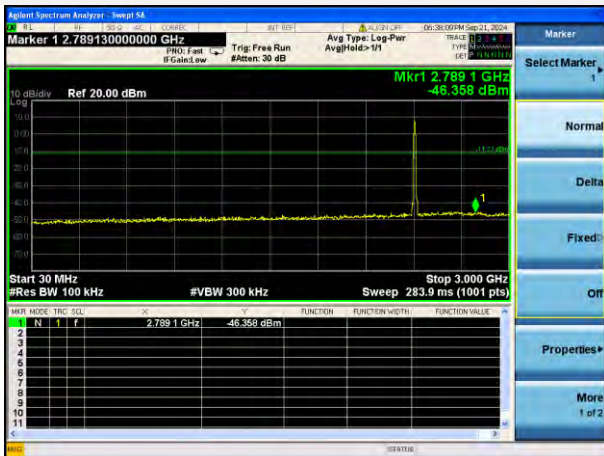
Test Plots

SISO-Main Antenna

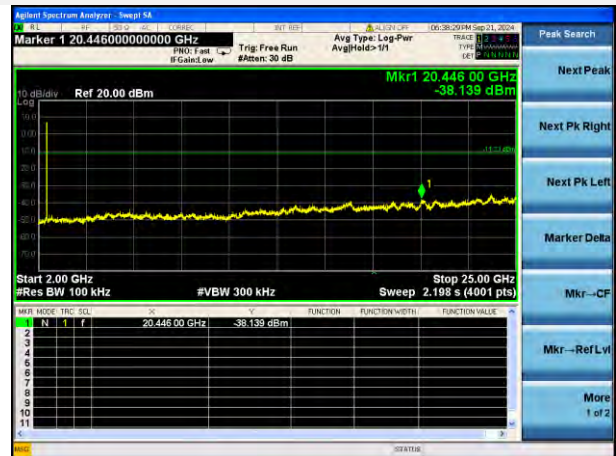
802.11b LOW CHANNEL CARRIER LEVEL



802.11b LOW CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



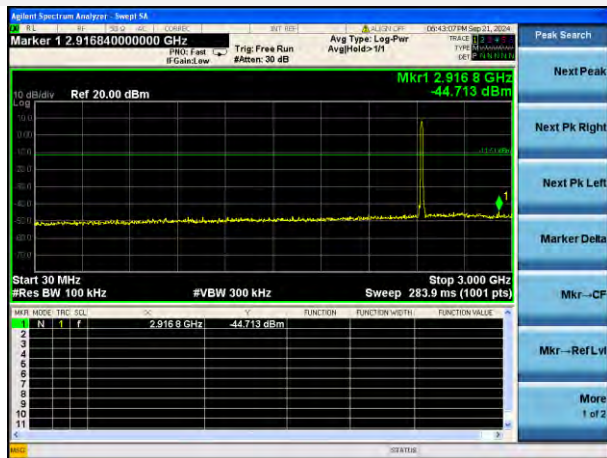
802.11b LOW CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



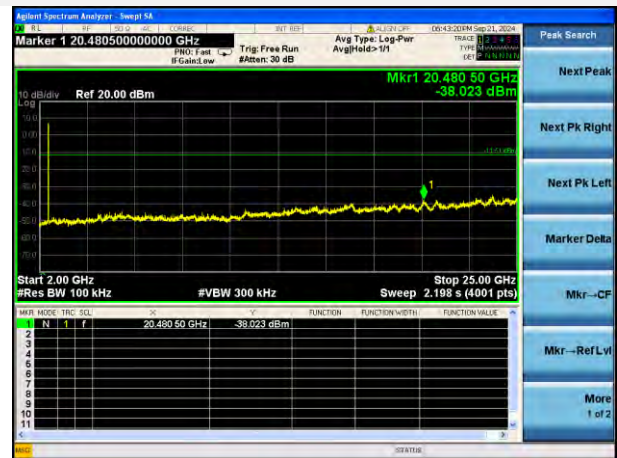
802.11b MIDDLE CHANNEL CARRIER LEVEL



802.11b MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



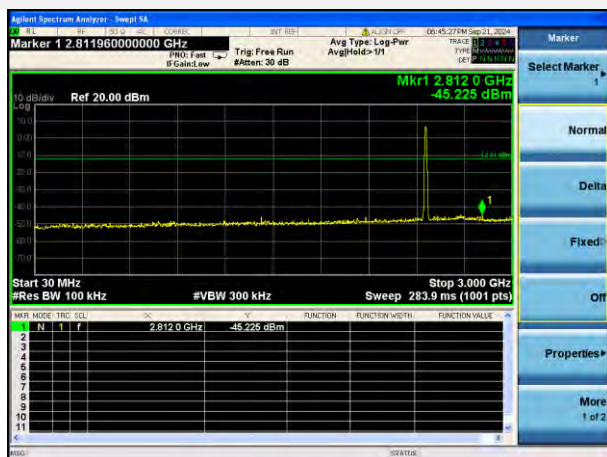
802.11b MIDDLE CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



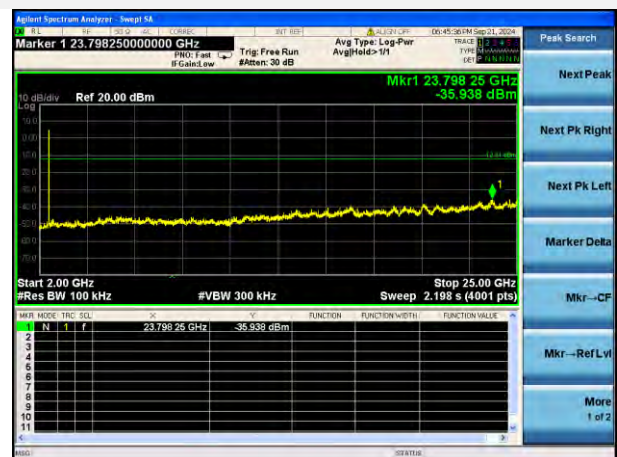
802.11b HIGH CHANNEL CARRIER LEVEL



802.11b HIGH CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



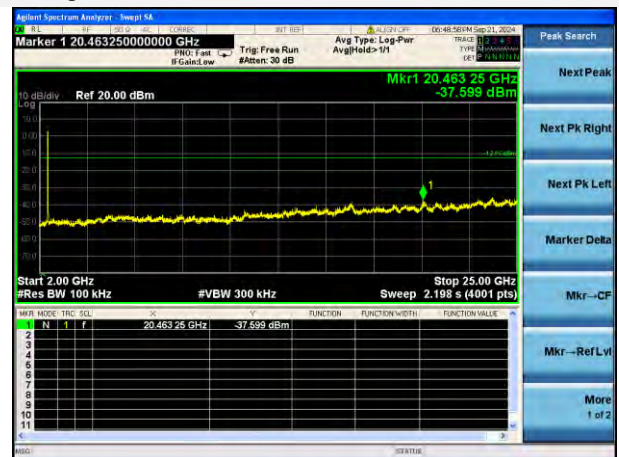
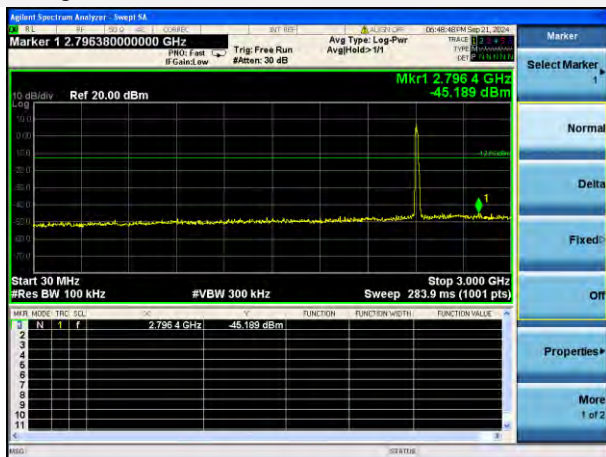
802.11b HIGH CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



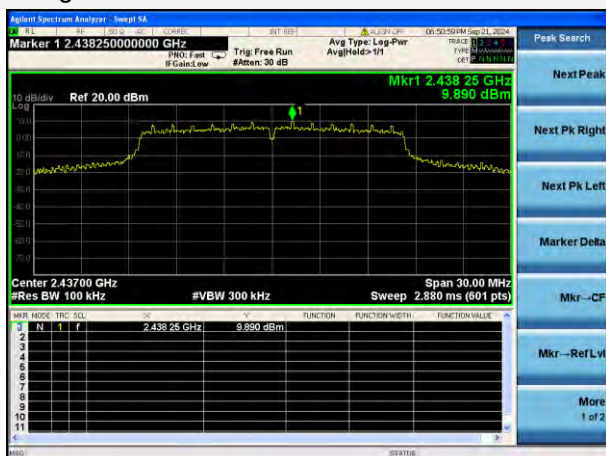
802.11g LOW CHANNEL CARRIER LEVEL



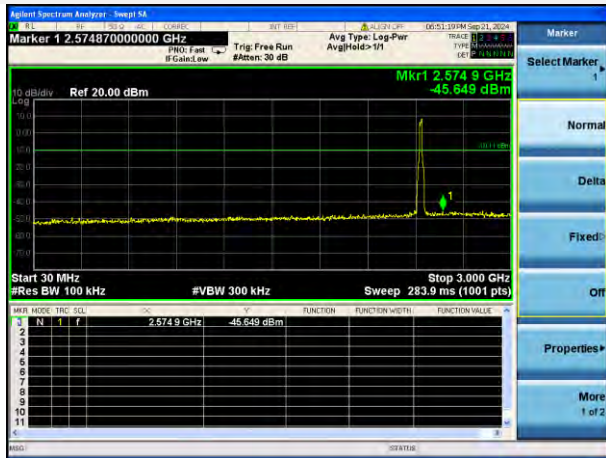
802.11g LOW CHANNEL, SPURIOUS 30 MHz ~ 3 GHz 802.11g LOW CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



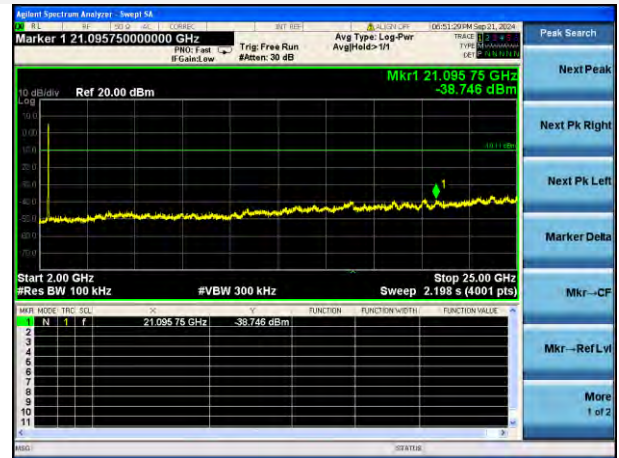
802.11g MIDDLE CHANNEL CARRIER LEVEL



802.11g MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



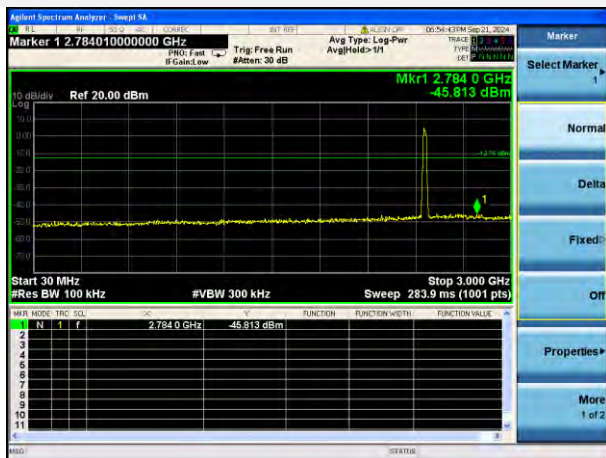
802.11g MIDDLE CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



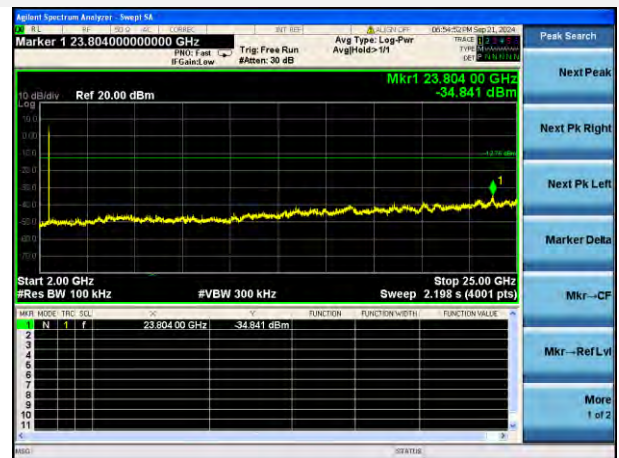
802.11g HIGH CHANNEL CARRIER LEVEL



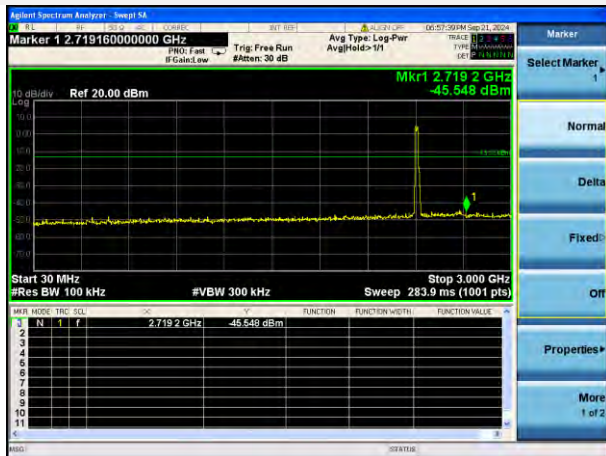
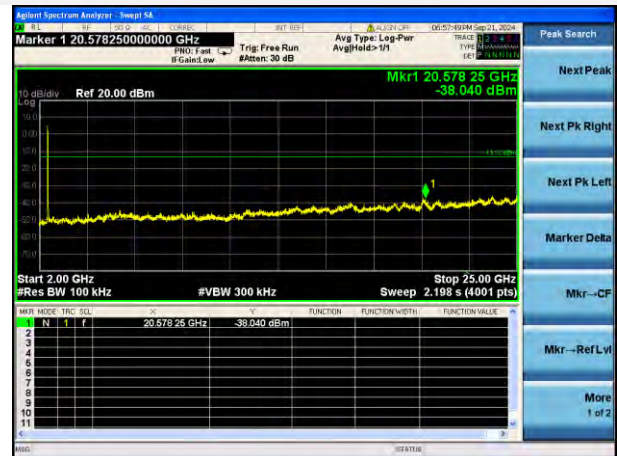
802.11g HIGH CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



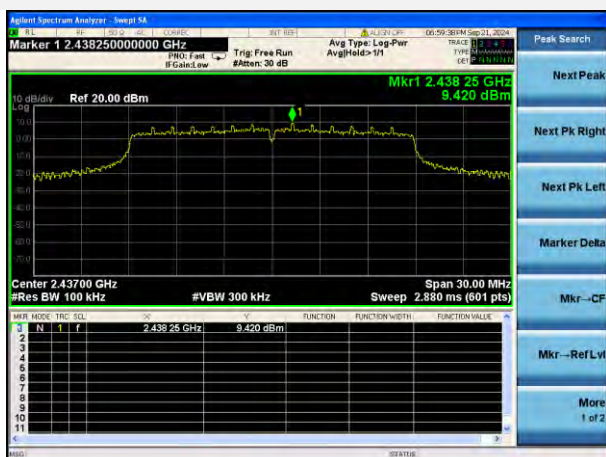
802.11g HIGH CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



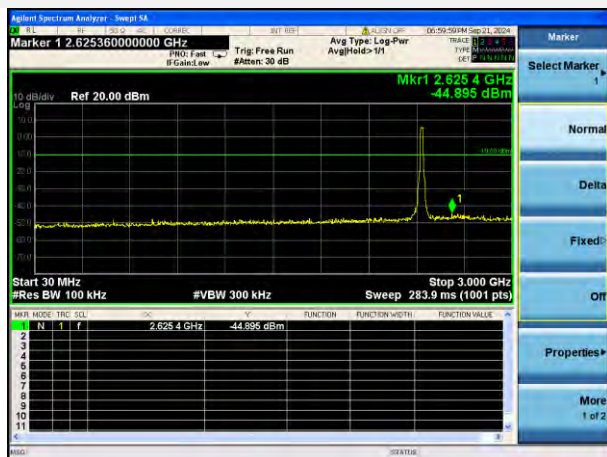
802.11n-20 MHz LOW CHANNEL CARRIER LEVEL

802.11n-20 MHz LOW CHANNEL, SPURIOUS
30 MHz ~ 3 GHz802.11n-20 MHz LOW CHANNEL, SPURIOUS
2 GHz ~ 25 GHz

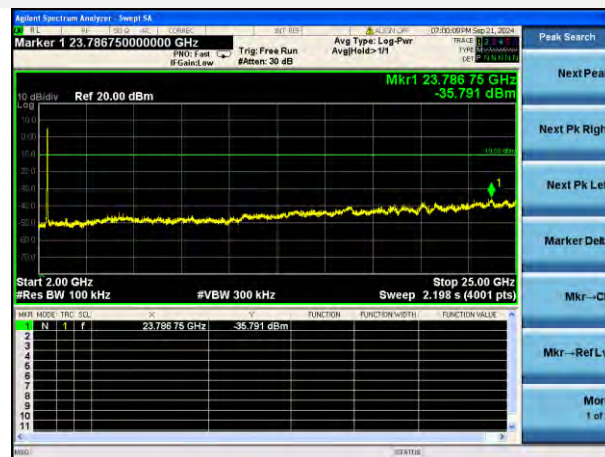
802.11n-20 MHz MIDDLE CHANNEL CARRIER LEVEL



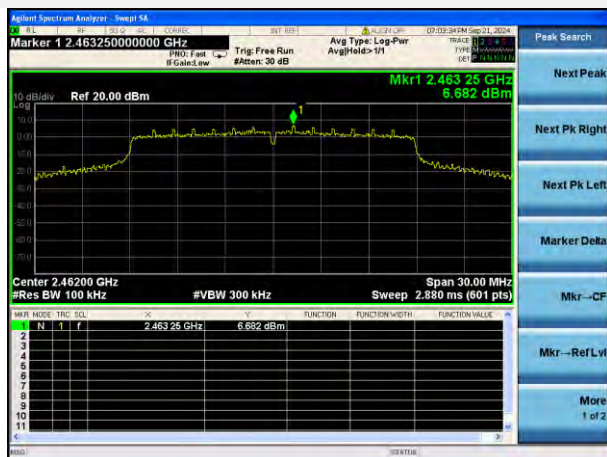
802.11n-20 MHz MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



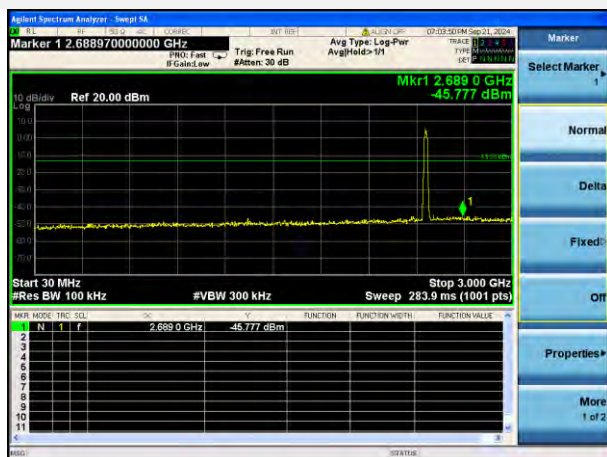
802.11n-20 MHz MIDDLE CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



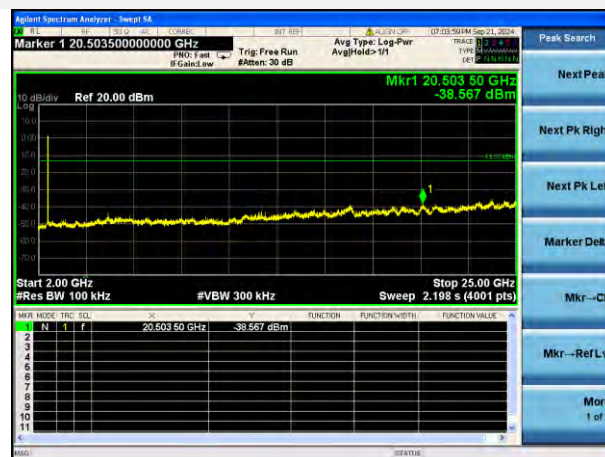
802.11n-20 MHz HIGH CHANNEL CARRIER LEVEL



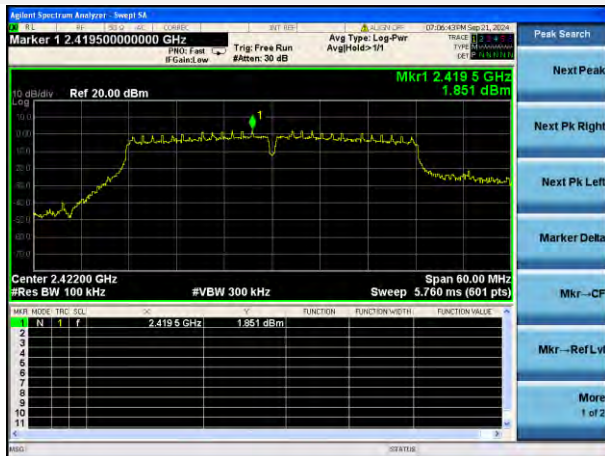
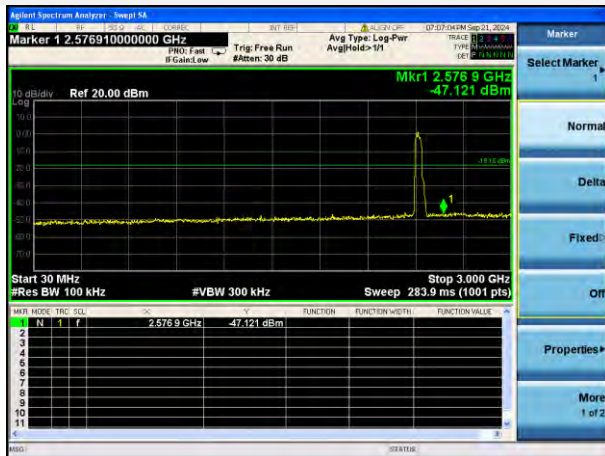
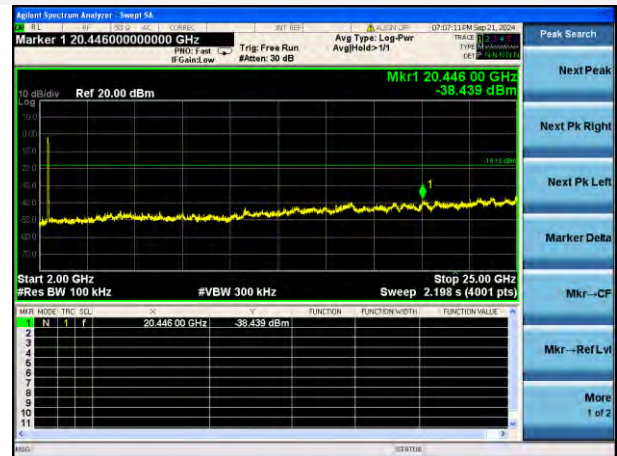
802.11n-20 MHz HIGH CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



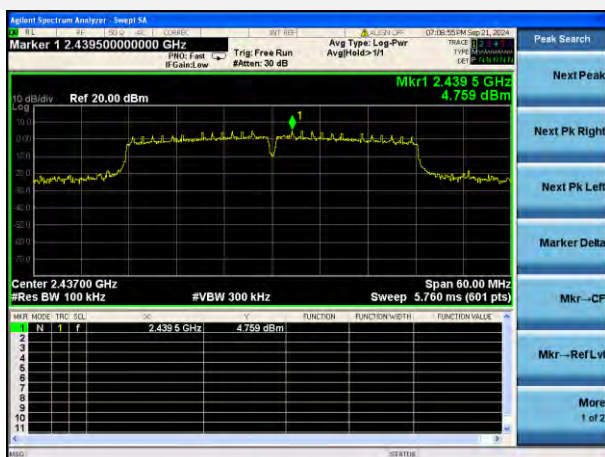
802.11n-20 MHz HIGH CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



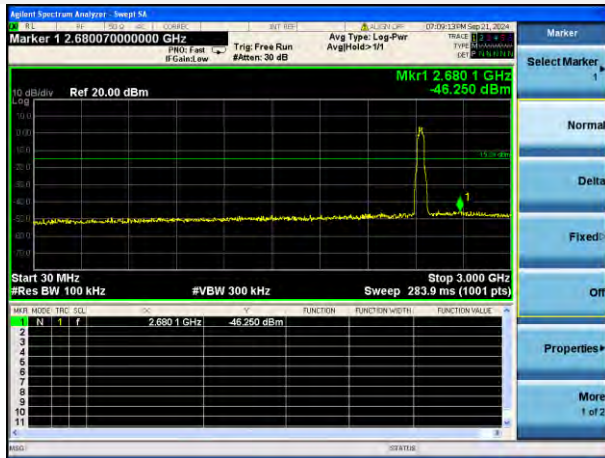
802.11n-40 MHz LOW CHANNEL CARRIER LEVEL

802.11n-40 MHz LOW CHANNEL, SPURIOUS
30 MHz ~ 3 GHz802.11n-40 MHz LOW CHANNEL, SPURIOUS
2 GHz ~ 25 GHz

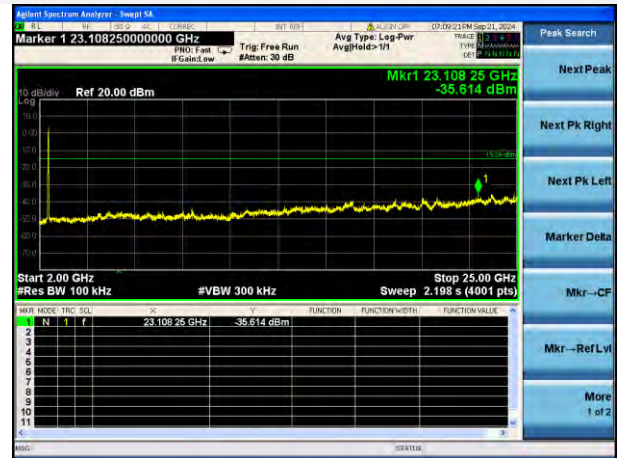
802.11n-40 MHz MIDDLE CHANNEL CARRIER LEVEL



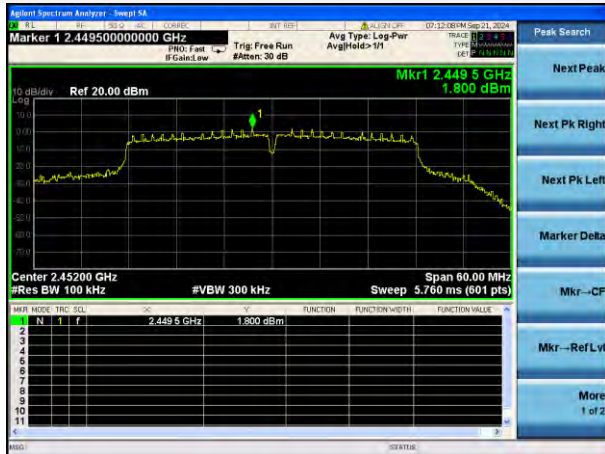
802.11n-40 MHz MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



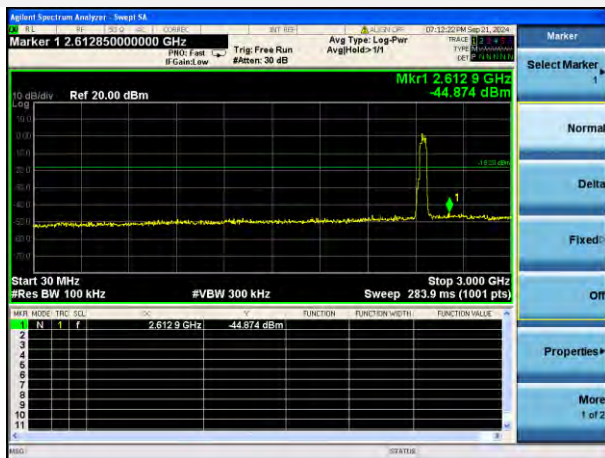
802.11n-40 MHz MIDDLE CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



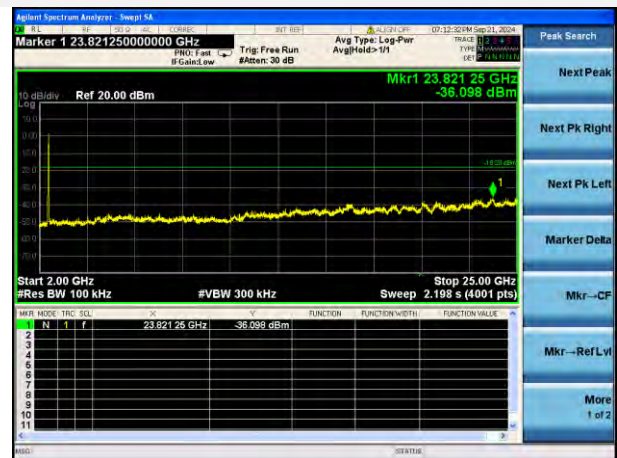
802.11n-40 MHz HIGH CHANNEL CARRIER LEVEL



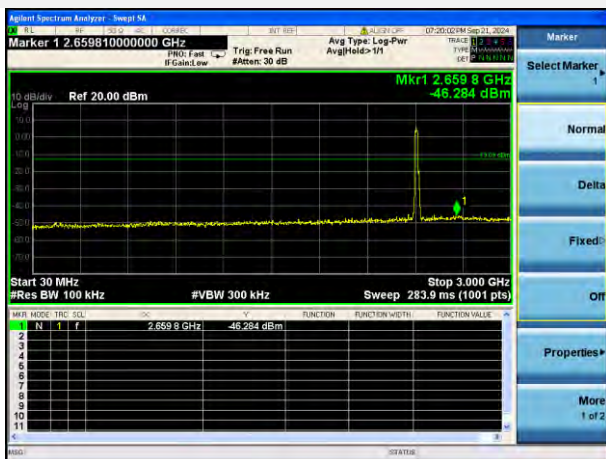
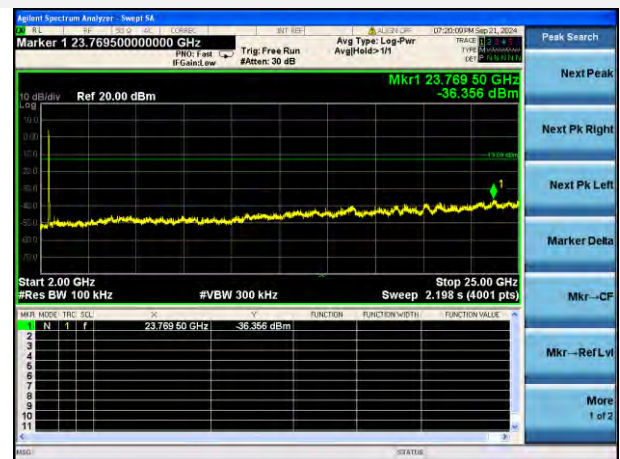
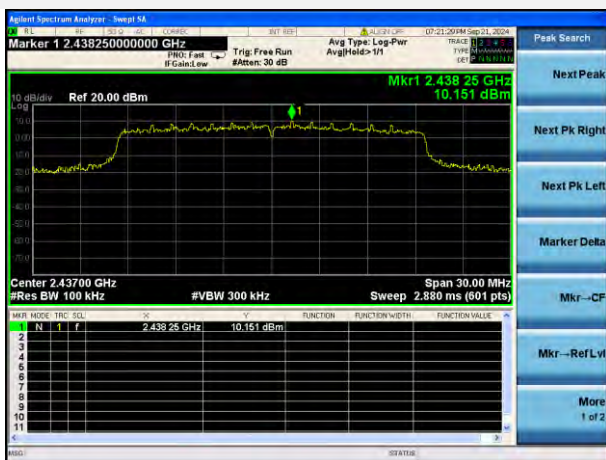
802.11n-40 MHz HIGH CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



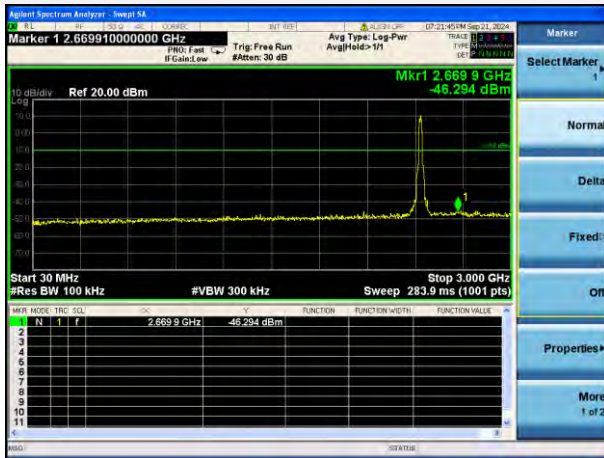
802.11n-40 MHz HIGH CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



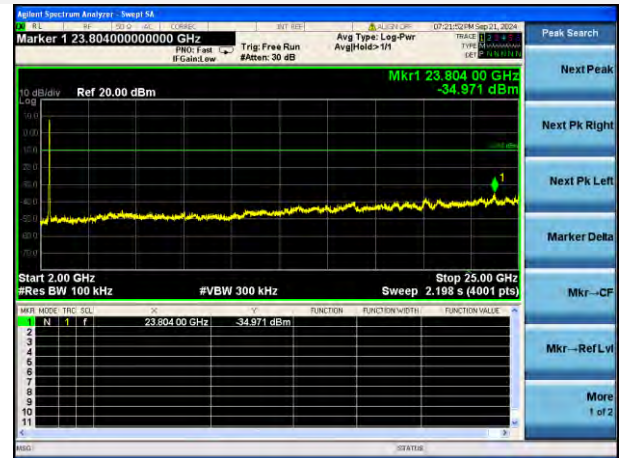
802.11ax-20 MHz(SU) LOW CHANNEL CARRIER LEVEL

802.11ax-20 MHz(SU) LOW CHANNEL, SPURIOUS
30 MHz ~ 3 GHz802.11ax-20 MHz(SU) LOW CHANNEL, SPURIOUS
2 GHz ~ 25 GHz802.11ax-20 MHz(SU) MIDDLE CHANNEL CARRIER
LEVEL

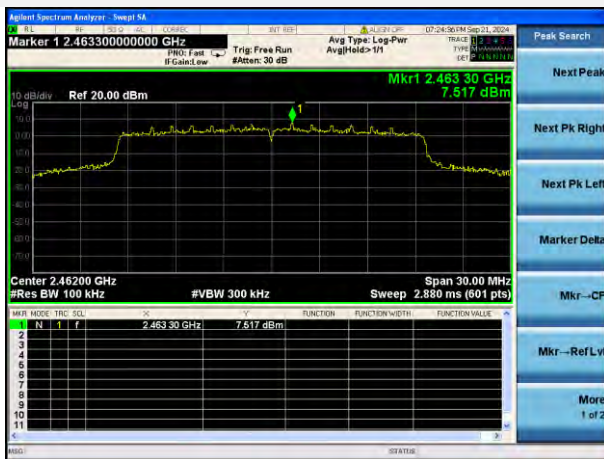
802.11ax-20 MHz(SU) MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



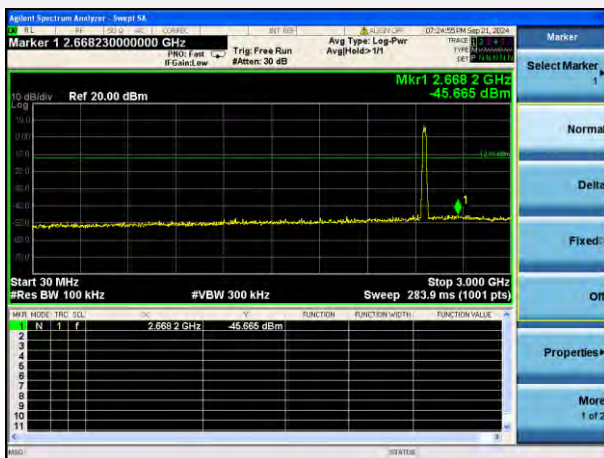
802.11ax-20 MHz(SU) MIDDLE CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



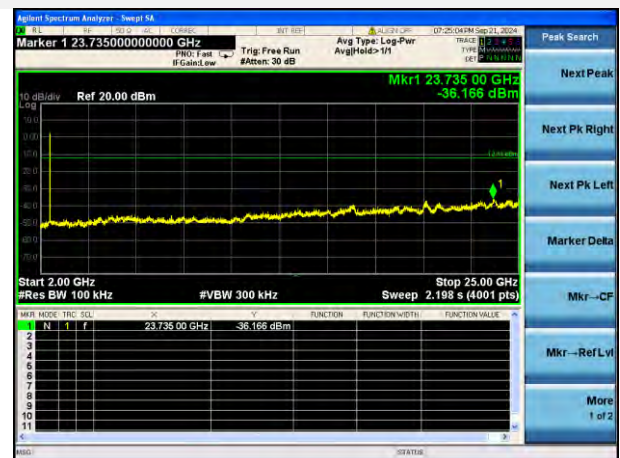
802.11ax-20 MHz(SU) HIGH CHANNEL CARRIER LEVEL



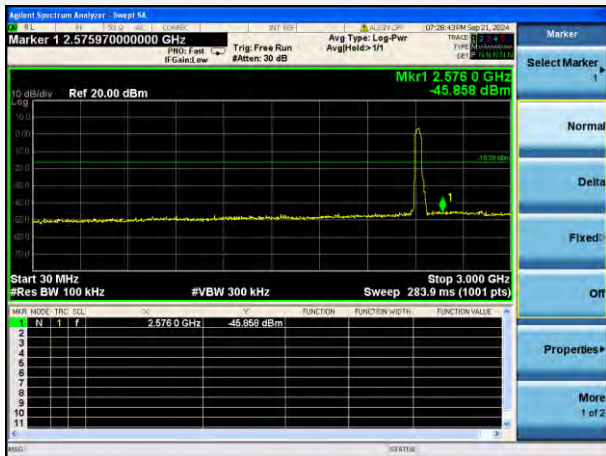
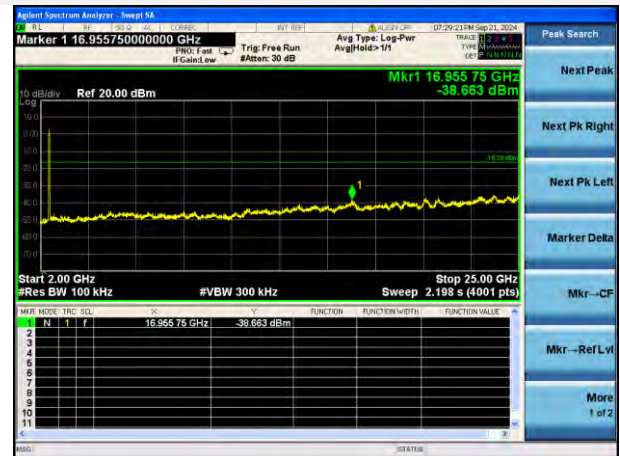
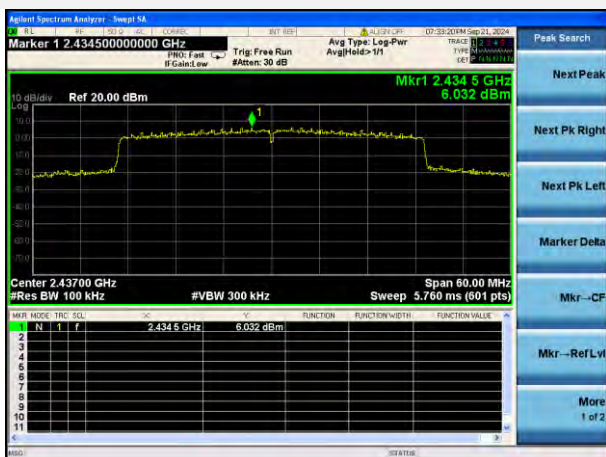
802.11ax-20 MHz(SU) HIGH CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



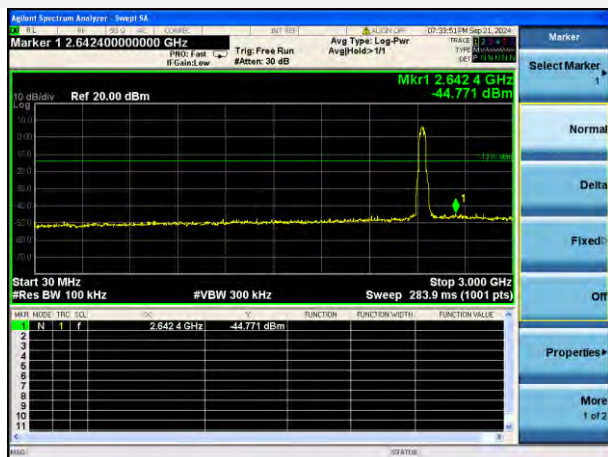
802.11ax-20 MHz(SU) HIGH CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



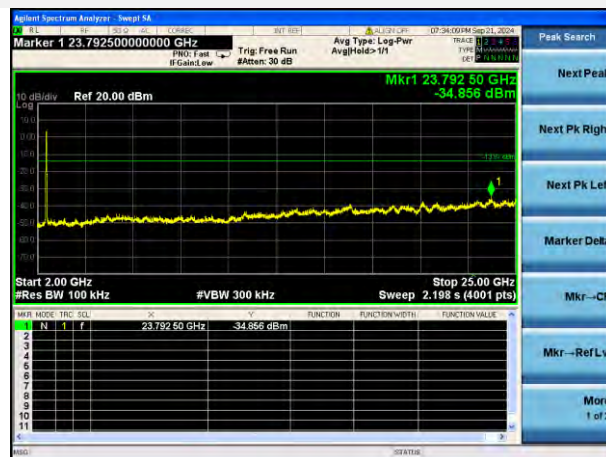
802.11ax-40 MHz(SU) LOW CHANNEL CARRIER LEVEL

802.11ax-40 MHz(SU) LOW CHANNEL, SPURIOUS
30 MHz ~ 3 GHz802.11ax-40 MHz(SU) LOW CHANNEL, SPURIOUS
2 GHz ~ 25 GHz802.11ax-40 MHz(SU) MIDDLE CHANNEL CARRIER
LEVEL

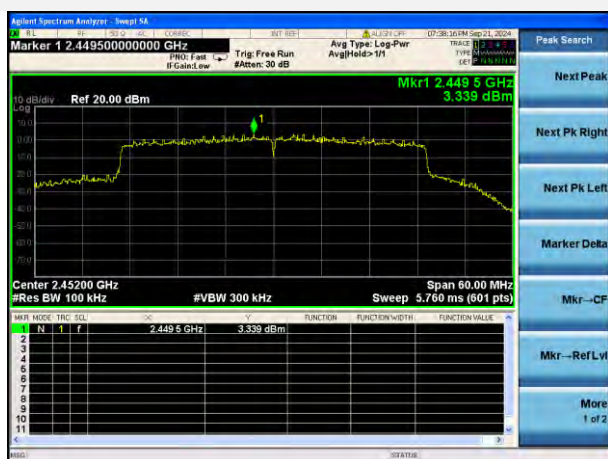
802.11ax-40 MHz(SU) MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



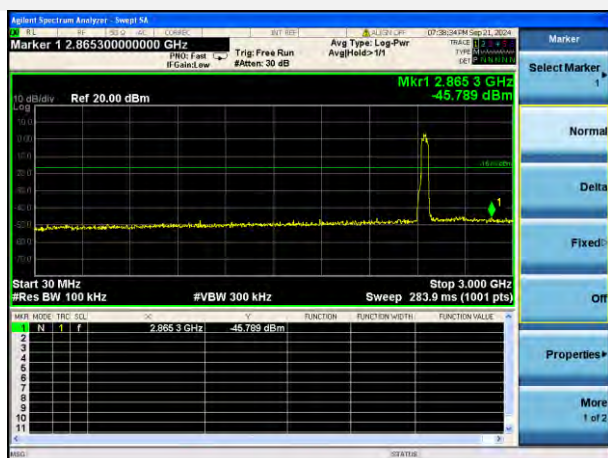
802.11ax-40 MHz(SU) MIDDLE CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



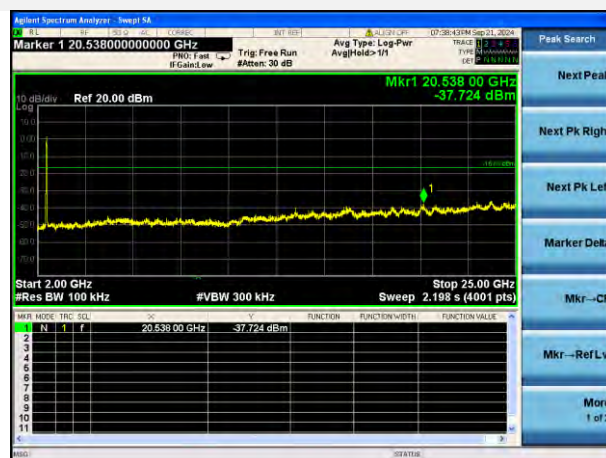
802.11ax-40 MHz(SU) HIGH CHANNEL CARRIER LEVEL



802.11ax-40 MHz(SU) HIGH CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



802.11ax-40 MHz(SU) HIGH CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



A.4 Band Edge (Authorized-band band-edge)

Note¹: The 99% OBW of the fundamental emission is without 2 MHz of the authorized band.

Note²: All the configurations were pre tested, only the worst configuration has been reported in this report.

Note³: All antenna were pre tested, but only the worst case has been reported in this report.

Test Data

SISO-Main Antenna

802.11b Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-39.97	8.67	-21.33	Pass
High Channel	-48.62	7.69	-22.32	Pass

802.11g Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-34.12	7.15	-22.85	Pass
High Channel	-44.02	7.24	-22.76	Pass

802.11n-20 MHz Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-35.36	6.48	-23.53	Pass
High Channel	-45.23	6.68	-23.32	Pass

802.11n-40 MHz Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-32.89	1.85	-28.15	Pass
High Channel	-44.60	1.80	-28.20	Pass

802.11ax-20 MHz(SU) Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-37.28	6.91	-23.09	Pass
High Channel	-41.23	7.52	-22.48	Pass

802.11ax-40 MHz(SU) Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-29.51	3.41	-26.59	Pass
High Channel	-40.37	3.34	-26.66	Pass

Test Plots

SISO-Main Antenna

802.11b LOW CHANNEL, CARRIER LEVEL



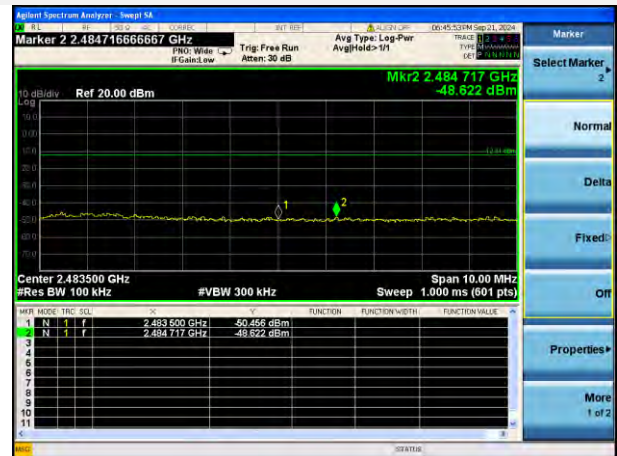
802.11b LOW CHANNEL, BAND EDGE



802.11b HIGH CHANNEL, CARRIER LEVEL



802.11b HIGH CHANNEL, BAND EDGE



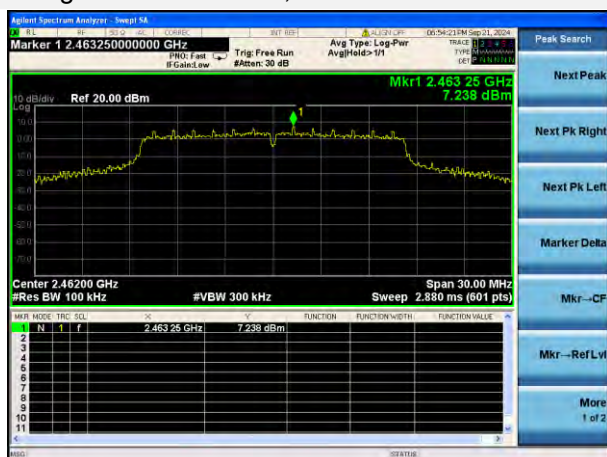
802.11g LOW CHANNEL, CARRIER LEVEL



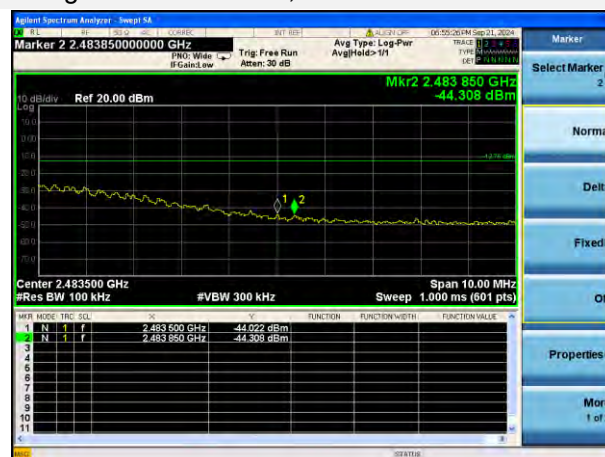
802.11g LOW CHANNEL, BAND EDGE



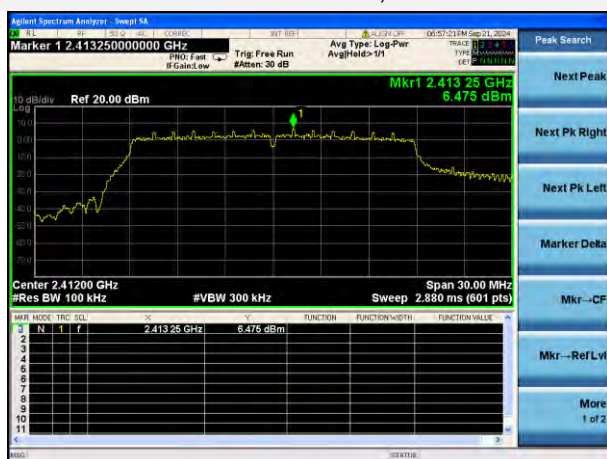
802.11g HIGH CHANNEL, CARRIER LEVEL



802.11g HIGH CHANNEL, BAND EDGE



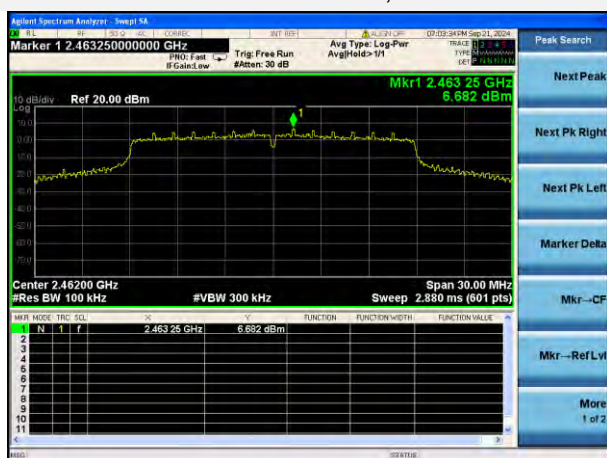
802.11n-20 MHz LOW CHANNEL, CARRIER LEVEL



802.11n-20 MHz LOW CHANNEL, BAND EDGE



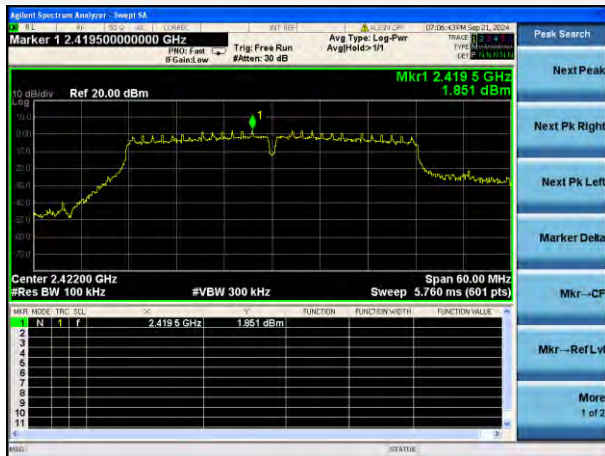
802.11n-20 MHz HIGH CHANNEL, CARRIER LEVEL



802.11n-20 MHz HIGH CHANNEL, BAND EDGE



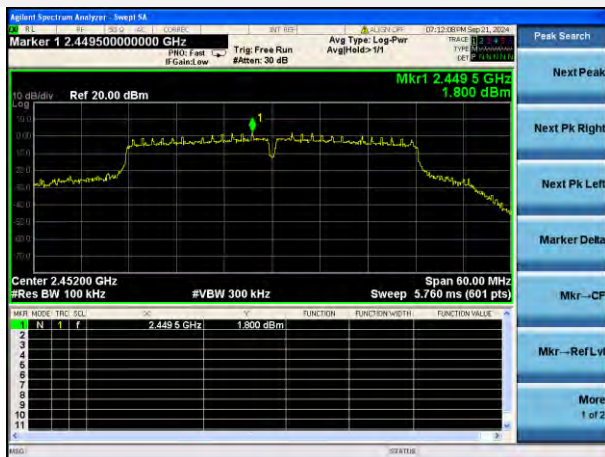
802.11n-40 MHz LOW CHANNEL, CARRIER LEVEL



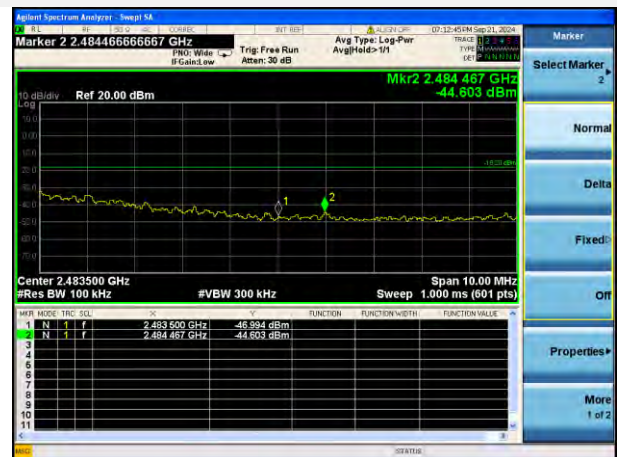
802.11n-40 MHz LOW CHANNEL, BAND EDGE



802.11n-40 MHz HIGH CHANNEL, CARRIER LEVEL



802.11n-40 MHz HIGH CHANNEL, BAND EDGE



802.11ax-20 MHz(SU) LOW CHANNEL, CARRIER LEVEL



802.11ax-20 MHz(SU) LOW CHANNEL, BAND EDGE



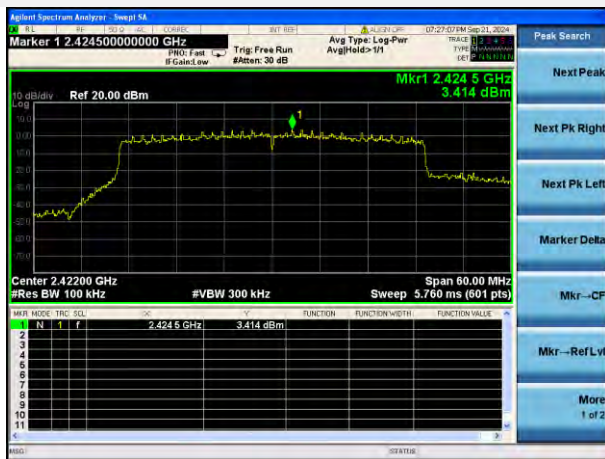
802.11ax-20 MHz(SU) HIGH CHANNEL, CARRIER LEVEL



802.11ax-20 MHz(SU) HIGH CHANNEL, BAND EDGE



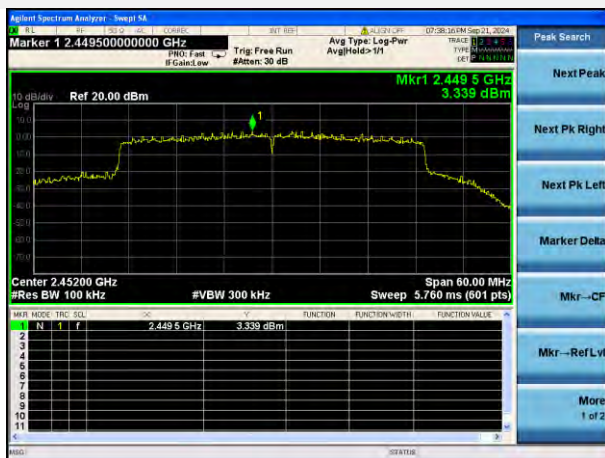
802.11ax-40 MHz(SU) LOW CHANNEL, CARRIER LEVEL



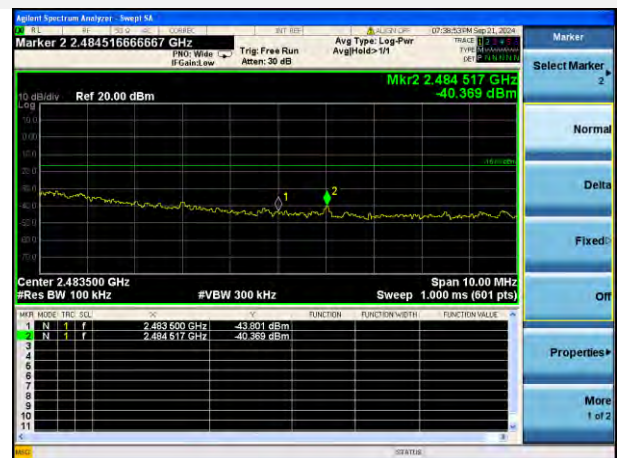
802.11ax-40 MHz(SU) LOW CHANNEL, BAND EDGE



802.11ax-40 MHz(SU) HIGH CHANNEL, CARRIER LEVEL



802.11ax-40 MHz(SU) HIGH CHANNEL, BAND EDGE



A.5 Conducted Emissions

Note¹: The EUT is working in the Normal link mode. All modes have been tested and normal link mode is worst.

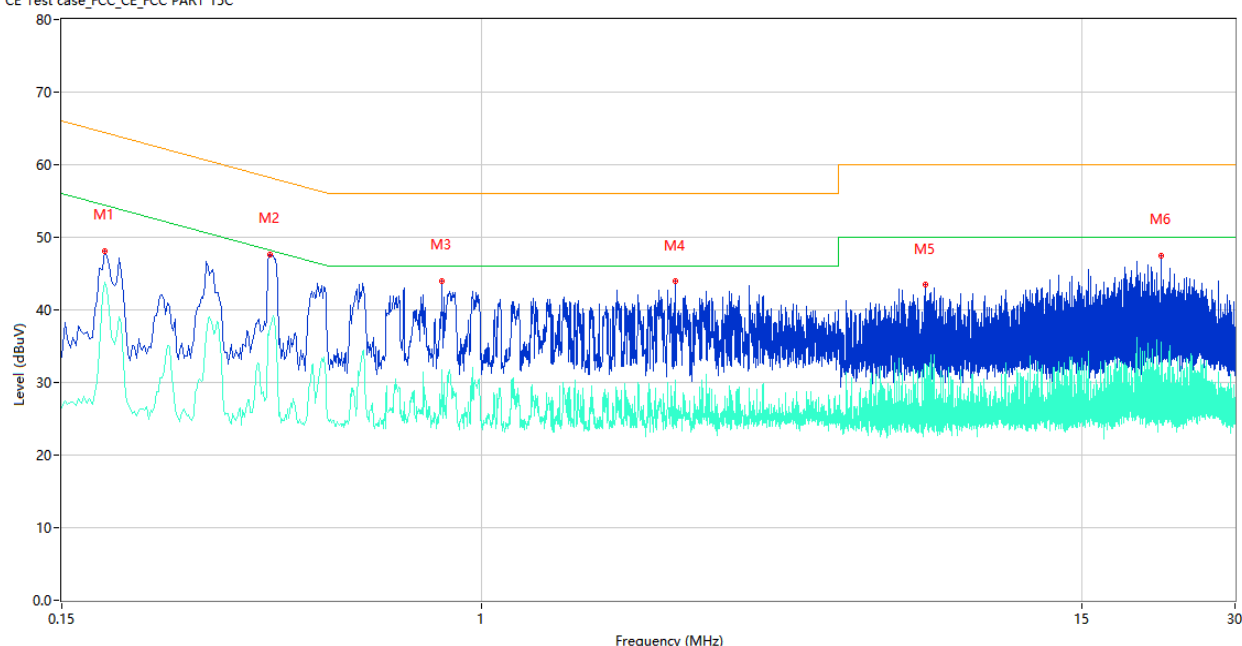
Note²: Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 60 Hz and 240 VAC, 50 Hz) for which the device is capable of operation. So, The configuration 120 VAC, 60 Hz and 240 VAC, 50 Hz were tested respectively, but only the worst configuration (120 VAC, 60 Hz) shown here.

Note³: Results (dBuV) = Original reading level of Spectrum Analyzer (dBuV) + Factor (dB)

Test Data and Plots

PHASE L

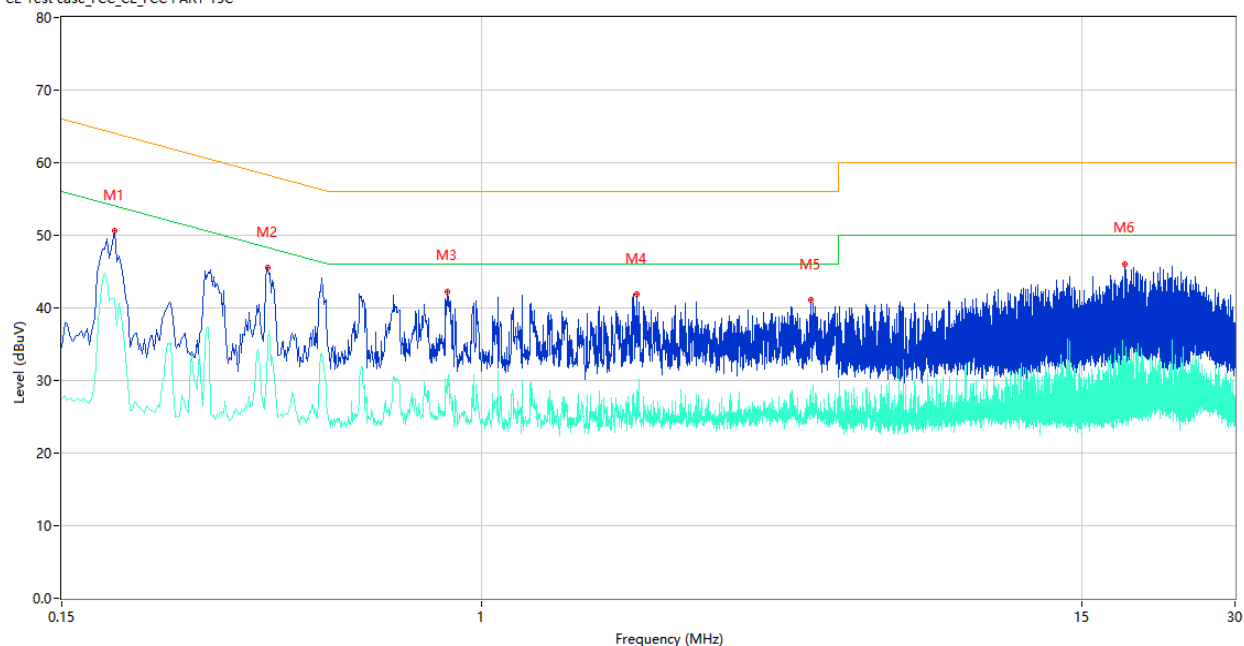
CE Test case_FCC_CE_FCC PART 15C



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.182	48.12	9.78	64.39	16.27	Peak	L	Pass
1**	0.182	43.74	9.78	54.39	10.65	AV	L	Pass
2	0.384	47.64	10.62	58.19	10.55	Peak	L	Pass
2**	0.384	37.78	10.62	48.19	10.41	AV	L	Pass
3	0.836	43.99	10.60	56.00	12.01	Peak	L	Pass
3**	0.836	31.74	10.60	46.00	14.26	AV	L	Pass
4	2.392	43.92	10.27	56.00	12.08	Peak	L	Pass
4**	2.392	30.29	10.27	46.00	15.71	AV	L	Pass
5	7.430	43.46	10.44	60.00	16.54	Peak	L	Pass
5**	7.430	30.43	10.44	50.00	19.57	AV	L	Pass
6	21.446	47.53	10.59	60.00	12.47	Peak	L	Pass
6**	21.446	34.87	10.59	50.00	15.13	AV	L	Pass

PHASE N

CE Test case_FCC_CE_FCC PART 15C



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.190	50.58	9.78	64.04	13.46	Peak	N	Pass
1**	0.190	41.32	9.78	54.04	12.72	AV	N	Pass
2	0.380	45.48	10.64	58.28	12.80	Peak	N	Pass
2**	0.380	35.62	10.64	48.28	12.66	AV	N	Pass
3	0.856	42.29	10.56	56.00	13.71	Peak	N	Pass
3**	0.856	30.09	10.56	46.00	15.91	AV	N	Pass
4	2.018	41.86	10.33	56.00	14.14	Peak	N	Pass
4**	2.018	28.73	10.33	46.00	17.27	AV	N	Pass
5	4.416	41.04	10.26	56.00	14.96	Peak	N	Pass
5**	4.416	28.24	10.26	46.00	17.76	AV	N	Pass
6	18.204	46.09	11.04	60.00	13.91	Peak	N	Pass
6**	18.204	31.89	11.04	50.00	18.11	AV	N	Pass

A.6 Radiated Emission

Note¹: The symbol of “--” in the table which means not application.

Note²: For the test data above 1 GHz, According the ANSI C63.10-2013, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

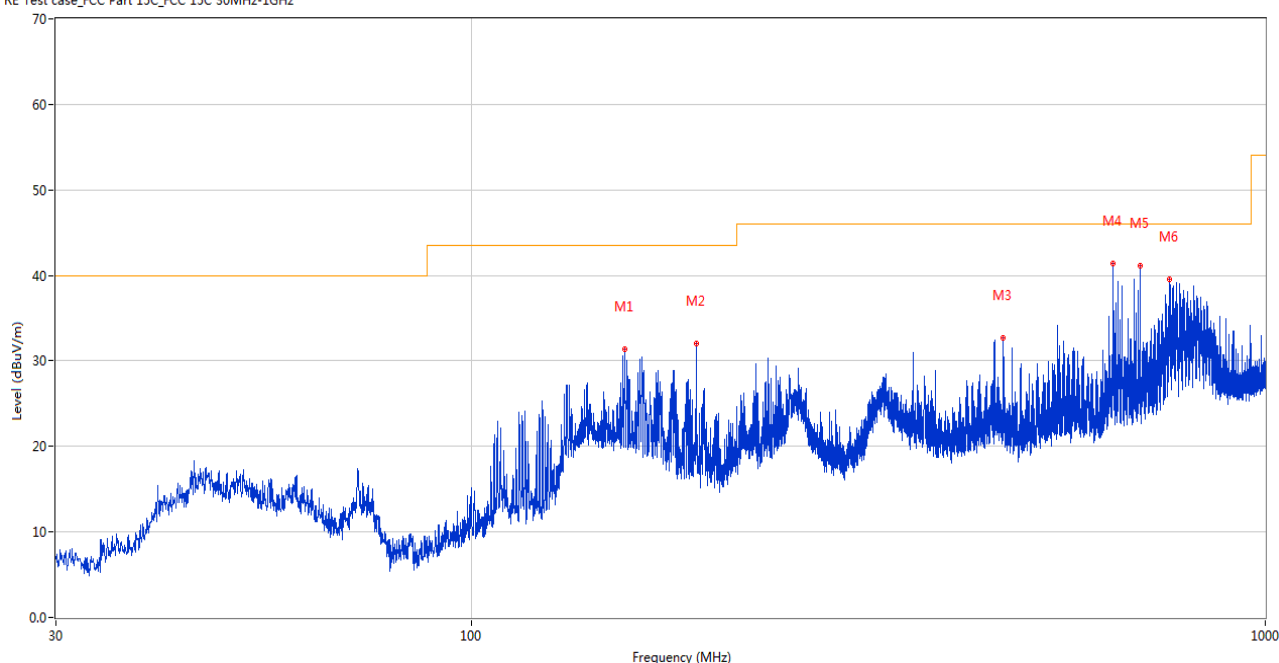
Note³: The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.

Note⁴: The EUT is working in the Normal link mode below 1 GHz. All modes have been tested and normal link mode is worst.

Test Data and Plots

30 MHz to 1 GHz, ANT H

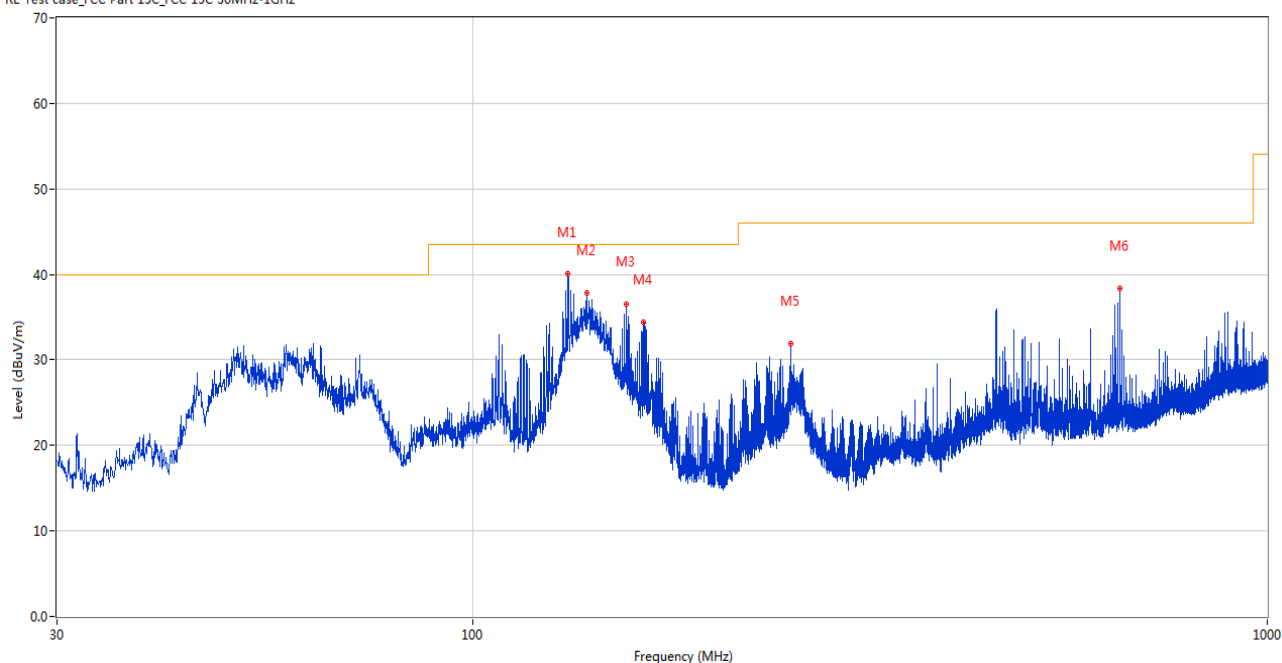
RE Test case_FCC Part 15C FCC 15C 30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	156.294	31.36	-29.25	43.5	12.14	Peak	247.10	200	Horizontal	Pass
2	192.038	32.04	-26.33	43.5	11.46	Peak	247.10	100	Horizontal	Pass
3	467.955	32.69	-19.20	46.0	13.31	Peak	88.10	100	Horizontal	Pass
4	643.865	41.39	-14.22	46.0	4.61	Peak	116.50	100	Horizontal	Pass
5	696.002	41.14	-13.85	46.0	4.86	Peak	81.80	200	Horizontal	Pass
6	758.179	39.49	-11.76	46.0	6.51	Peak	116.50	100	Horizontal	Pass

30 MHz to 1 GHz, ANT V

RE Test case_FCC Part 15C_FCC 15C 30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	131.947	40.01	-29.31	43.5	3.49	Peak	11.30	100	Vertical	Pass
2	139.319	37.84	-29.81	43.5	5.66	Peak	300.30	100	Vertical	Pass
3	156.197	36.52	-29.26	43.5	6.98	Peak	229.30	100	Vertical	Pass
4	164.296	34.40	-28.52	43.5	9.10	Peak	102.50	100	Vertical	Pass
5	251.500	31.85	-24.28	46.0	14.15	Peak	266.60	200	Vertical	Pass
6	652.206	38.42	-14.45	46.0	7.58	Peak	12.30	200	Vertical	Pass

Note ¹: The marked spikes near 2400 MHz with circle should be ignored because they are Fundamental signal.

Note ²: The spurious above 18G is noise only, do not show on the report.

Note ³: All the configurations were pre tested, only the worst configuration has been reported in this report.

Note ⁴: All antenna were pre tested, but only the worst case has been reported in this report.

SISO-Main Antenna

1 GHz to 18 GHz, ANT H 802.11b Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1330.783	45.56	74.0	28.44	Peak	245.00	100	Horizontal	Pass
1**	1330.783	35.13	54.0	18.87	AV	245.00	100	Horizontal	Pass
2	2998.625	52.76	74.0	21.24	Peak	14.00	100	Horizontal	Pass
2**	2998.625	38.67	54.0	15.33	AV	14.00	100	Horizontal	Pass
3	4809.207	47.83	74.0	26.17	Peak	312.00	200	Horizontal	Pass
3**	4809.207	41.13	54.0	12.87	AV	312.00	200	Horizontal	Pass
4	6886.458	50.40	74.0	23.60	Peak	344.00	400	Horizontal	Pass
4**	6886.458	45.37	54.0	8.63	AV	344.00	400	Horizontal	Pass
5	12488.647	56.15	74.0	17.85	Peak	182.00	100	Horizontal	Pass
5**	12488.647	45.54	54.0	8.46	AV	182.00	100	Horizontal	Pass
6	17090.915	54.36	74.0	19.64	Peak	76.00	400	Horizontal	Pass
6**	17090.915	44.67	54.0	9.33	AV	76.00	400	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11b Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1334.988	43.52	74.0	30.48	Peak	238.00	100	Vertical	Pass
1**	1334.988	36.05	54.0	17.95	AV	238.00	100	Vertical	Pass
2	2983.683	52.80	74.0	21.20	Peak	330.00	200	Vertical	Pass
2**	2983.683	42.56	54.0	11.44	AV	330.00	200	Vertical	Pass
3	4857.153	47.78	74.0	26.22	Peak	191.00	200	Vertical	Pass
3**	4857.153	40.43	54.0	13.57	AV	191.00	200	Vertical	Pass
4	7927.161	54.66	74.0	19.34	Peak	28.00	100	Vertical	Pass
4**	7927.161	46.01	54.0	7.99	AV	28.00	100	Vertical	Pass
5	12991.752	52.20	74.0	21.80	Peak	67.00	300	Vertical	Pass
5**	12991.752	45.77	54.0	8.23	AV	67.00	300	Vertical	Pass
6	17013.776	53.09	74.0	20.91	Peak	55.00	300	Vertical	Pass
6**	17013.776	48.56	54.0	5.44	AV	55.00	300	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11b Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1332.771	42.31	74.0	31.69	Peak	177.00	400	Horizontal	Pass
1**	1332.771	37.72	54.0	16.28	AV	177.00	400	Horizontal	Pass
2	3000.093	48.01	74.0	25.99	Peak	178.00	100	Horizontal	Pass
2**	3000.093	43.12	54.0	10.88	AV	178.00	100	Horizontal	Pass
3	4810.740	49.49	74.0	24.51	Peak	2.00	200	Horizontal	Pass
3**	4810.740	42.06	54.0	11.94	AV	2.00	200	Horizontal	Pass
4	6886.759	54.44	74.0	19.56	Peak	115.00	100	Horizontal	Pass
4**	6886.759	45.10	54.0	8.90	AV	115.00	100	Horizontal	Pass
5	12488.757	55.33	74.0	18.67	Peak	354.00	400	Horizontal	Pass
5**	12488.757	45.79	54.0	8.21	AV	354.00	400	Horizontal	Pass
6	17092.565	56.34	74.0	17.66	Peak	202.00	200	Horizontal	Pass
6**	17092.565	45.43	54.0	8.57	AV	202.00	200	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11b Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1333.227	46.08	74.0	27.92	Peak	31.00	200	Vertical	Pass
1**	1333.227	40.66	54.0	13.34	AV	31.00	200	Vertical	Pass
2	2979.041	48.13	74.0	25.87	Peak	271.00	200	Vertical	Pass
2**	2979.041	38.93	54.0	15.07	AV	271.00	200	Vertical	Pass
3	4850.268	49.61	74.0	24.39	Peak	127.00	200	Vertical	Pass
3**	4850.268	42.27	54.0	11.73	AV	127.00	200	Vertical	Pass
4	7928.636	55.34	74.0	18.66	Peak	47.00	100	Vertical	Pass
4**	7928.636	47.39	54.0	6.61	AV	47.00	100	Vertical	Pass
5	12997.047	53.17	74.0	20.83	Peak	131.00	200	Vertical	Pass
5**	12997.047	43.87	54.0	10.13	AV	131.00	200	Vertical	Pass
6	17012.725	54.32	74.0	19.68	Peak	284.00	400	Vertical	Pass
6**	17012.725	46.94	54.0	7.06	AV	284.00	400	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11b High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1331.135	45.94	74.0	28.06	Peak	182.00	100	Horizontal	Pass
1**	1331.135	33.94	54.0	20.06	AV	182.00	100	Horizontal	Pass
2	2993.863	52.59	74.0	21.41	Peak	76.00	200	Horizontal	Pass
2**	2993.863	41.55	54.0	12.45	AV	76.00	200	Horizontal	Pass
3	4809.521	46.75	74.0	27.25	Peak	70.00	200	Horizontal	Pass
3**	4809.521	38.50	54.0	15.50	AV	70.00	200	Horizontal	Pass
4	6889.199	50.76	74.0	23.24	Peak	37.00	300	Horizontal	Pass
4**	6889.199	43.64	54.0	10.36	AV	37.00	300	Horizontal	Pass
5	12491.849	53.92	74.0	20.08	Peak	157.00	100	Horizontal	Pass
5**	12491.849	47.12	54.0	6.88	AV	157.00	100	Horizontal	Pass
6	17091.776	57.93	74.0	16.07	Peak	277.00	200	Horizontal	Pass
6**	17091.776	47.80	54.0	6.20	AV	277.00	200	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11b High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1330.248	45.84	74.0	28.16	Peak	61.00	300	Vertical	Pass
1**	1330.248	37.91	54.0	16.09	AV	61.00	300	Vertical	Pass
2	2985.602	51.66	74.0	22.34	Peak	109.00	200	Vertical	Pass
2**	2985.602	41.95	54.0	12.05	AV	109.00	200	Vertical	Pass
3	4854.120	51.34	74.0	22.66	Peak	340.00	200	Vertical	Pass
3**	4854.120	39.33	54.0	14.67	AV	340.00	200	Vertical	Pass
4	7930.102	53.23	74.0	20.77	Peak	175.00	400	Vertical	Pass
4**	7930.102	44.95	54.0	9.05	AV	175.00	400	Vertical	Pass
5	12993.793	50.95	74.0	23.05	Peak	41.00	200	Vertical	Pass
5**	12993.793	45.41	54.0	8.59	AV	41.00	200	Vertical	Pass
6	17015.759	56.50	74.0	17.50	Peak	24.00	100	Vertical	Pass
6**	17015.759	48.17	54.0	5.83	AV	24.00	100	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11g Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1327.842	42.24	74.0	31.76	Peak	124.00	100	Horizontal	Pass
1**	1327.842	37.23	54.0	16.77	AV	124.00	100	Horizontal	Pass
2	2999.523	48.17	74.0	25.83	Peak	192.00	200	Horizontal	Pass
2**	2999.523	41.32	54.0	12.68	AV	192.00	200	Horizontal	Pass
3	4812.797	49.78	74.0	24.22	Peak	333.00	200	Horizontal	Pass
3**	4812.797	38.59	54.0	15.41	AV	333.00	200	Horizontal	Pass
4	6883.000	53.44	74.0	20.56	Peak	51.00	200	Horizontal	Pass
4**	6883.000	45.02	54.0	8.98	AV	51.00	200	Horizontal	Pass
5	12485.670	56.80	74.0	17.20	Peak	1.00	400	Horizontal	Pass
5**	12485.670	46.35	54.0	7.65	AV	1.00	400	Horizontal	Pass
6	17086.346	53.72	74.0	20.28	Peak	306.00	200	Horizontal	Pass
6**	17086.346	45.56	54.0	8.44	AV	306.00	200	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11g Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1331.809	43.70	74.0	30.30	Peak	128.00	400	Vertical	Pass
1**	1331.809	38.43	54.0	15.57	AV	128.00	400	Vertical	Pass
2	2980.216	47.73	74.0	26.27	Peak	213.00	300	Vertical	Pass
2**	2980.216	39.74	54.0	14.26	AV	213.00	300	Vertical	Pass
3	4852.759	51.69	74.0	22.31	Peak	355.00	200	Vertical	Pass
3**	4852.759	39.77	54.0	14.23	AV	355.00	200	Vertical	Pass
4	7928.479	54.83	74.0	19.17	Peak	319.00	400	Vertical	Pass
4**	7928.479	45.64	54.0	8.36	AV	319.00	400	Vertical	Pass
5	12992.509	52.00	74.0	22.00	Peak	223.00	200	Vertical	Pass
5**	12992.509	44.40	54.0	9.60	AV	223.00	200	Vertical	Pass
6	17012.333	53.38	74.0	20.62	Peak	115.00	400	Vertical	Pass
6**	17012.333	43.71	54.0	10.29	AV	115.00	400	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11g Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1329.801	45.92	74.0	28.08	Peak	296.00	200	Horizontal	Pass
1**	1329.801	35.18	54.0	18.82	AV	296.00	200	Horizontal	Pass
2	3000.086	51.23	74.0	22.77	Peak	265.00	300	Horizontal	Pass
2**	3000.086	43.40	54.0	10.60	AV	265.00	300	Horizontal	Pass
3	4808.274	49.00	74.0	25.00	Peak	184.00	200	Horizontal	Pass
3**	4808.274	41.99	54.0	12.01	AV	184.00	200	Horizontal	Pass
4	6883.120	55.78	74.0	18.22	Peak	230.00	100	Horizontal	Pass
4**	6883.120	44.58	54.0	9.42	AV	230.00	100	Horizontal	Pass
5	12487.620	52.41	74.0	21.59	Peak	140.00	200	Horizontal	Pass
5**	12487.620	46.52	54.0	7.48	AV	140.00	200	Horizontal	Pass
6	17091.169	56.10	74.0	17.90	Peak	292.00	100	Horizontal	Pass
6**	17091.169	46.14	54.0	7.86	AV	292.00	100	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11g Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1329.430	47.54	74.0	26.46	Peak	176.00	300	Vertical	Pass
1**	1329.430	35.70	54.0	18.30	AV	176.00	300	Vertical	Pass
2	2985.076	47.63	74.0	26.37	Peak	322.00	300	Vertical	Pass
2**	2985.076	40.18	54.0	13.82	AV	322.00	300	Vertical	Pass
3	4850.534	51.12	74.0	22.88	Peak	23.00	200	Vertical	Pass
3**	4850.534	42.27	54.0	11.73	AV	23.00	200	Vertical	Pass
4	7931.893	52.25	74.0	21.75	Peak	154.00	300	Vertical	Pass
4**	7931.893	42.75	54.0	11.25	AV	154.00	300	Vertical	Pass
5	12993.938	55.29	74.0	18.71	Peak	129.00	100	Vertical	Pass
5**	12993.938	46.01	54.0	7.99	AV	129.00	100	Vertical	Pass
6	17014.898	56.50	74.0	17.50	Peak	324.00	300	Vertical	Pass
6**	17014.898	45.44	54.0	8.56	AV	324.00	300	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11g High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1330.291	42.14	74.0	31.86	Peak	231.00	100	Horizontal	Pass
1**	1330.291	36.62	54.0	17.38	AV	231.00	100	Horizontal	Pass
2	2992.769	49.94	74.0	24.06	Peak	247.00	100	Horizontal	Pass
2**	2992.769	42.86	54.0	11.14	AV	247.00	100	Horizontal	Pass
3	4813.276	47.86	74.0	26.14	Peak	121.00	200	Horizontal	Pass
3**	4813.276	43.37	54.0	10.63	AV	121.00	200	Horizontal	Pass
4	6883.762	53.71	74.0	20.29	Peak	182.00	100	Horizontal	Pass
4**	6883.762	45.94	54.0	8.06	AV	182.00	100	Horizontal	Pass
5	12487.631	55.00	74.0	19.00	Peak	234.00	400	Horizontal	Pass
5**	12487.631	46.22	54.0	7.78	AV	234.00	400	Horizontal	Pass
6	17088.049	55.63	74.0	18.37	Peak	80.00	300	Horizontal	Pass
6**	17088.049	46.02	54.0	7.98	AV	80.00	300	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11g High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1335.929	45.04	74.0	28.96	Peak	26.00	200	Vertical	Pass
1**	1335.929	37.51	54.0	16.49	AV	26.00	200	Vertical	Pass
2	2979.461	49.61	74.0	24.39	Peak	127.00	300	Vertical	Pass
2**	2979.461	43.38	54.0	10.62	AV	127.00	300	Vertical	Pass
3	4852.872	50.81	74.0	23.19	Peak	196.00	200	Vertical	Pass
3**	4852.872	37.90	54.0	16.10	AV	196.00	200	Vertical	Pass
4	7934.276	54.84	74.0	19.16	Peak	213.00	100	Vertical	Pass
4**	7934.276	42.97	54.0	11.03	AV	213.00	100	Vertical	Pass
5	12997.268	55.38	74.0	18.62	Peak	112.00	100	Vertical	Pass
5**	12997.268	46.48	54.0	7.52	AV	112.00	100	Vertical	Pass
6	17013.878	53.60	74.0	20.40	Peak	234.00	300	Vertical	Pass
6**	17013.878	47.84	54.0	6.16	AV	234.00	300	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11n20 Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1325.802	46.76	74.0	27.24	Peak	334.00	200	Horizontal	Pass
1**	1325.802	39.51	54.0	14.49	AV	334.00	200	Horizontal	Pass
2	2999.258	47.73	74.0	26.27	Peak	209.00	200	Horizontal	Pass
2**	2999.258	41.72	54.0	12.28	AV	209.00	200	Horizontal	Pass
3	4807.682	48.98	74.0	25.02	Peak	211.00	200	Horizontal	Pass
3**	4807.682	42.49	54.0	11.51	AV	211.00	200	Horizontal	Pass
4	6882.664	53.23	74.0	20.77	Peak	28.00	400	Horizontal	Pass
4**	6882.664	43.05	54.0	10.95	AV	28.00	400	Horizontal	Pass
5	12486.713	56.38	74.0	17.62	Peak	302.00	400	Horizontal	Pass
5**	12486.713	44.18	54.0	9.82	AV	302.00	400	Horizontal	Pass
6	17092.621	54.41	74.0	19.59	Peak	81.00	400	Horizontal	Pass
6**	17092.621	48.16	54.0	5.84	AV	81.00	400	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11n20 Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1336.192	43.74	74.0	30.26	Peak	324.00	200	Vertical	Pass
1**	1336.192	35.75	54.0	18.25	AV	324.00	200	Vertical	Pass
2	2984.699	49.76	74.0	24.24	Peak	98.00	300	Vertical	Pass
2**	2984.699	39.35	54.0	14.65	AV	98.00	300	Vertical	Pass
3	4854.400	47.58	74.0	26.42	Peak	282.00	200	Vertical	Pass
3**	4854.400	38.31	54.0	15.69	AV	282.00	200	Vertical	Pass
4	7931.407	55.88	74.0	18.12	Peak	173.00	400	Vertical	Pass
4**	7931.407	43.79	54.0	10.21	AV	173.00	400	Vertical	Pass
5	12994.476	55.07	74.0	18.93	Peak	27.00	100	Vertical	Pass
5**	12994.476	46.55	54.0	7.45	AV	27.00	100	Vertical	Pass
6	17017.513	55.53	74.0	18.47	Peak	319.00	400	Vertical	Pass
6**	17017.513	47.59	54.0	6.41	AV	319.00	400	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11n20 Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1330.370	47.33	74.0	26.67	Peak	208.00	400	Horizontal	Pass
1**	1330.370	35.05	54.0	18.95	AV	208.00	400	Horizontal	Pass
2	2997.610	48.85	74.0	25.15	Peak	335.00	100	Horizontal	Pass
2**	2997.610	38.62	54.0	15.38	AV	335.00	100	Horizontal	Pass
3	4813.127	48.19	74.0	25.81	Peak	13.00	200	Horizontal	Pass
3**	4813.127	39.26	54.0	14.74	AV	13.00	200	Horizontal	Pass
4	6887.092	53.97	74.0	20.03	Peak	8.00	100	Horizontal	Pass
4**	6887.092	42.13	54.0	11.87	AV	8.00	100	Horizontal	Pass
5	12489.138	55.32	74.0	18.68	Peak	232.00	300	Horizontal	Pass
5**	12489.138	47.44	54.0	6.56	AV	232.00	300	Horizontal	Pass
6	17088.175	55.16	74.0	18.84	Peak	229.00	400	Horizontal	Pass
6**	17088.175	46.73	54.0	7.27	AV	229.00	400	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11n20 Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1331.701	46.13	74.0	27.87	Peak	328.00	200	Vertical	Pass
1**	1331.701	38.05	54.0	15.95	AV	328.00	200	Vertical	Pass
2	2979.789	53.40	74.0	20.60	Peak	109.00	100	Vertical	Pass
2**	2979.789	41.93	54.0	12.07	AV	109.00	100	Vertical	Pass
3	4855.306	49.14	74.0	24.86	Peak	300.00	200	Vertical	Pass
3**	4855.306	39.43	54.0	14.57	AV	300.00	200	Vertical	Pass
4	7929.114	53.77	74.0	20.23	Peak	187.00	300	Vertical	Pass
4**	7929.114	41.68	54.0	12.32	AV	187.00	300	Vertical	Pass
5	12991.782	54.43	74.0	19.57	Peak	27.00	100	Vertical	Pass
5**	12991.782	47.69	54.0	6.31	AV	27.00	100	Vertical	Pass
6	17017.851	57.86	74.0	16.14	Peak	166.00	300	Vertical	Pass
6**	17017.851	47.24	54.0	6.76	AV	166.00	300	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11n20 High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1333.122	45.74	74.0	28.26	Peak	250.00	200	Horizontal	Pass
1**	1333.122	34.26	54.0	19.74	AV	250.00	200	Horizontal	Pass
2	3000.191	52.87	74.0	21.13	Peak	63.00	200	Horizontal	Pass
2**	3000.191	39.41	54.0	14.59	AV	63.00	200	Horizontal	Pass
3	4811.801	46.62	74.0	27.38	Peak	214.00	200	Horizontal	Pass
3**	4811.801	41.97	54.0	12.03	AV	214.00	200	Horizontal	Pass
4	6883.760	51.85	74.0	22.15	Peak	279.00	400	Horizontal	Pass
4**	6883.760	44.86	54.0	9.14	AV	279.00	400	Horizontal	Pass
5	12488.526	53.43	74.0	20.57	Peak	85.00	400	Horizontal	Pass
5**	12488.526	44.04	54.0	9.96	AV	85.00	400	Horizontal	Pass
6	17086.386	52.60	74.0	21.40	Peak	269.00	400	Horizontal	Pass
6**	17086.386	47.38	54.0	6.62	AV	269.00	400	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11n20 High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1335.816	48.01	74.0	25.99	Peak	73.00	400	Vertical	Pass
1**	1335.816	39.33	54.0	14.67	AV	73.00	400	Vertical	Pass
2	2978.873	48.46	74.0	25.54	Peak	141.00	200	Vertical	Pass
2**	2978.873	40.93	54.0	13.07	AV	141.00	200	Vertical	Pass
3	4856.681	47.37	74.0	26.63	Peak	73.00	200	Vertical	Pass
3**	4856.681	41.52	54.0	12.48	AV	73.00	200	Vertical	Pass
4	7927.616	52.05	74.0	21.95	Peak	243.00	300	Vertical	Pass
4**	7927.616	42.67	54.0	11.33	AV	243.00	300	Vertical	Pass
5	12994.728	50.99	74.0	23.01	Peak	155.00	100	Vertical	Pass
5**	12994.728	44.42	54.0	9.58	AV	155.00	100	Vertical	Pass
6	17015.821	54.40	74.0	19.60	Peak	298.00	300	Vertical	Pass
6**	17015.821	46.40	54.0	7.60	AV	298.00	300	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11n40 Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1330.314	47.44	74.0	26.56	Peak	84.00	100	Horizontal	Pass
1**	1330.314	34.40	54.0	19.60	AV	84.00	100	Horizontal	Pass
2	2993.838	47.67	74.0	26.33	Peak	169.00	400	Horizontal	Pass
2**	2993.838	40.55	54.0	13.45	AV	169.00	400	Horizontal	Pass
3	4808.077	46.70	74.0	27.30	Peak	323.00	200	Horizontal	Pass
3**	4808.077	40.05	54.0	13.95	AV	323.00	200	Horizontal	Pass
4	6884.907	55.42	74.0	18.58	Peak	356.00	300	Horizontal	Pass
4**	6884.907	46.26	54.0	7.74	AV	356.00	300	Horizontal	Pass
5	12491.465	53.96	74.0	20.04	Peak	133.00	400	Horizontal	Pass
5**	12491.465	44.66	54.0	9.34	AV	133.00	400	Horizontal	Pass
6	17090.736	57.22	74.0	16.78	Peak	194.00	300	Horizontal	Pass
6**	17090.736	45.10	54.0	8.90	AV	194.00	300	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11n40 Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1332.605	47.45	74.0	26.55	Peak	222.00	400	Vertical	Pass
1**	1332.605	37.50	54.0	16.50	AV	222.00	400	Vertical	Pass
2	2982.864	48.87	74.0	25.13	Peak	312.00	200	Vertical	Pass
2**	2982.864	42.67	54.0	11.33	AV	312.00	200	Vertical	Pass
3	4851.621	48.45	74.0	25.55	Peak	125.00	200	Vertical	Pass
3**	4851.621	38.41	54.0	15.59	AV	125.00	200	Vertical	Pass
4	7928.224	53.41	74.0	20.59	Peak	355.00	100	Vertical	Pass
4**	7928.224	45.68	54.0	8.32	AV	355.00	100	Vertical	Pass
5	12993.272	52.56	74.0	21.44	Peak	242.00	100	Vertical	Pass
5**	12993.272	41.99	54.0	12.01	AV	242.00	100	Vertical	Pass
6	17015.250	52.55	74.0	21.45	Peak	123.00	400	Vertical	Pass
6**	17015.250	48.10	54.0	5.90	AV	123.00	400	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11n40 Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1328.649	45.24	74.0	28.76	Peak	54.00	200	Horizontal	Pass
1**	1328.649	37.37	54.0	16.63	AV	54.00	200	Horizontal	Pass
2	2994.557	47.33	74.0	26.67	Peak	21.00	100	Horizontal	Pass
2**	2994.557	43.89	54.0	10.11	AV	21.00	100	Horizontal	Pass
3	4812.517	49.70	74.0	24.30	Peak	148.00	200	Horizontal	Pass
3**	4812.517	43.07	54.0	10.93	AV	148.00	200	Horizontal	Pass
4	6883.516	55.30	74.0	18.70	Peak	279.00	400	Horizontal	Pass
4**	6883.516	42.04	54.0	11.96	AV	279.00	400	Horizontal	Pass
5	12485.472	52.02	74.0	21.98	Peak	12.00	200	Horizontal	Pass
5**	12485.472	44.48	54.0	9.52	AV	12.00	200	Horizontal	Pass
6	17086.909	54.20	74.0	19.80	Peak	66.00	300	Horizontal	Pass
6**	17086.909	48.65	54.0	5.35	AV	66.00	300	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11n40 Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1330.070	44.06	74.0	29.94	Peak	348.00	400	Vertical	Pass
1**	1330.070	39.30	54.0	14.70	AV	348.00	400	Vertical	Pass
2	2985.969	50.35	74.0	23.65	Peak	188.00	200	Vertical	Pass
2**	2985.969	43.96	54.0	10.04	AV	188.00	200	Vertical	Pass
3	4852.221	48.77	74.0	25.23	Peak	315.00	200	Vertical	Pass
3**	4852.221	39.55	54.0	14.45	AV	315.00	200	Vertical	Pass
4	7933.153	51.07	74.0	22.93	Peak	310.00	400	Vertical	Pass
4**	7933.153	47.19	54.0	6.81	AV	310.00	400	Vertical	Pass
5	12994.273	53.25	74.0	20.75	Peak	30.00	300	Vertical	Pass
5**	12994.273	45.09	54.0	8.91	AV	30.00	300	Vertical	Pass
6	17012.875	58.22	74.0	15.78	Peak	41.00	200	Vertical	Pass
6**	17012.875	45.92	54.0	8.08	AV	41.00	200	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11n40 High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1328.305	45.83	74.0	28.17	Peak	39.00	300	Horizontal	Pass
1**	1328.305	36.95	54.0	17.05	AV	39.00	300	Horizontal	Pass
2	2993.988	52.98	74.0	21.02	Peak	292.00	200	Horizontal	Pass
2**	2993.988	39.75	54.0	14.25	AV	292.00	200	Horizontal	Pass
3	4813.950	49.89	74.0	24.11	Peak	238.00	200	Horizontal	Pass
3**	4813.950	38.36	54.0	15.64	AV	238.00	200	Horizontal	Pass
4	6882.595	50.59	74.0	23.41	Peak	108.00	300	Horizontal	Pass
4**	6882.595	45.53	54.0	8.47	AV	108.00	300	Horizontal	Pass
5	12490.679	52.28	74.0	21.72	Peak	231.00	400	Horizontal	Pass
5**	12490.679	47.12	54.0	6.88	AV	231.00	400	Horizontal	Pass
6	17086.913	57.52	74.0	16.48	Peak	181.00	300	Horizontal	Pass
6**	17086.913	48.28	54.0	5.72	AV	181.00	300	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11n40 High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1329.273	47.10	74.0	26.90	Peak	107.00	200	Vertical	Pass
1**	1329.273	37.05	54.0	16.95	AV	107.00	200	Vertical	Pass
2	2983.190	52.11	74.0	21.89	Peak	209.00	400	Vertical	Pass
2**	2983.190	40.06	54.0	13.94	AV	209.00	400	Vertical	Pass
3	4856.571	52.31	74.0	21.69	Peak	51.00	200	Vertical	Pass
3**	4856.571	38.32	54.0	15.68	AV	51.00	200	Vertical	Pass
4	7927.598	52.83	74.0	21.17	Peak	173.00	100	Vertical	Pass
4**	7927.598	42.21	54.0	11.79	AV	173.00	100	Vertical	Pass
5	12993.533	56.38	74.0	17.62	Peak	224.00	300	Vertical	Pass
5**	12993.533	45.52	54.0	8.48	AV	224.00	300	Vertical	Pass
6	17011.799	56.43	74.0	17.57	Peak	331.00	400	Vertical	Pass
6**	17011.799	47.84	54.0	6.16	AV	331.00	400	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11ax20(SU) Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1327.281	47.13	74.0	26.87	Peak	232.00	400	Horizontal	Pass
1**	1327.281	39.43	54.0	14.57	AV	232.00	400	Horizontal	Pass
2	2996.898	50.73	74.0	23.27	Peak	50.00	300	Horizontal	Pass
2**	2996.898	39.33	54.0	14.67	AV	50.00	300	Horizontal	Pass
3	4813.850	47.20	74.0	26.80	Peak	268.00	200	Horizontal	Pass
3**	4813.850	39.21	54.0	14.79	AV	268.00	200	Horizontal	Pass
4	6885.700	51.60	74.0	22.40	Peak	201.00	300	Horizontal	Pass
4**	6885.700	44.11	54.0	9.89	AV	201.00	300	Horizontal	Pass
5	12489.114	51.54	74.0	22.46	Peak	184.00	200	Horizontal	Pass
5**	12489.114	42.13	54.0	11.87	AV	184.00	200	Horizontal	Pass
6	17091.514	54.48	74.0	19.52	Peak	62.00	300	Horizontal	Pass
6**	17091.514	43.26	54.0	10.74	AV	62.00	300	Horizontal	Pass

1 GHz to 18 GHz, ANT V802.11ax20(SU) Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1330.412	44.39	74.0	29.61	Peak	138.00	300	Vertical	Pass
1**	1330.412	36.20	54.0	17.80	AV	138.00	300	Vertical	Pass
2	2982.322	51.25	74.0	22.75	Peak	343.00	100	Vertical	Pass
2**	2982.322	42.95	54.0	11.05	AV	343.00	100	Vertical	Pass
3	4851.714	47.77	74.0	26.23	Peak	114.00	200	Vertical	Pass
3**	4851.714	41.44	54.0	12.56	AV	114.00	200	Vertical	Pass
4	7926.955	54.06	74.0	19.94	Peak	232.00	400	Vertical	Pass
4**	7926.955	42.17	54.0	11.83	AV	232.00	400	Vertical	Pass
5	12997.426	55.10	74.0	18.90	Peak	308.00	200	Vertical	Pass
5**	12997.426	46.44	54.0	7.56	AV	308.00	200	Vertical	Pass
6	17014.301	57.50	74.0	16.50	Peak	11.00	400	Vertical	Pass
6**	17014.301	48.16	54.0	5.84	AV	11.00	400	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11ax20(SU) Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1328.107	42.93	74.0	31.07	Peak	338.00	100	Horizontal	Pass
1**	1328.107	36.01	54.0	17.99	AV	338.00	100	Horizontal	Pass
2	2997.792	49.82	74.0	24.18	Peak	255.00	100	Horizontal	Pass
2**	2997.792	42.60	54.0	11.40	AV	255.00	100	Horizontal	Pass
3	4812.518	49.36	74.0	24.64	Peak	51.00	200	Horizontal	Pass
3**	4812.518	40.04	54.0	13.96	AV	51.00	200	Horizontal	Pass
4	6888.230	53.96	74.0	20.04	Peak	171.00	400	Horizontal	Pass
4**	6888.230	42.87	54.0	11.13	AV	171.00	400	Horizontal	Pass
5	12485.527	56.28	74.0	17.72	Peak	45.00	200	Horizontal	Pass
5**	12485.527	47.24	54.0	6.76	AV	45.00	200	Horizontal	Pass
6	17088.791	56.87	74.0	17.13	Peak	186.00	200	Horizontal	Pass
6**	17088.791	45.10	54.0	8.90	AV	186.00	200	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11ax20(SU) Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1336.042	45.96	74.0	28.04	Peak	197.00	400	Vertical	Pass
1**	1336.042	35.30	54.0	18.70	AV	197.00	400	Vertical	Pass
2	2980.842	47.88	74.0	26.12	Peak	21.00	100	Vertical	Pass
2**	2980.842	43.68	54.0	10.32	AV	21.00	100	Vertical	Pass
3	4857.346	48.22	74.0	25.78	Peak	258.00	200	Vertical	Pass
3**	4857.346	41.60	54.0	12.40	AV	258.00	200	Vertical	Pass
4	7934.202	55.19	74.0	18.81	Peak	264.00	400	Vertical	Pass
4**	7934.202	46.95	54.0	7.05	AV	264.00	400	Vertical	Pass
5	12993.806	55.71	74.0	18.29	Peak	262.00	200	Vertical	Pass
5**	12993.806	47.30	54.0	6.70	AV	262.00	200	Vertical	Pass
6	17014.600	55.15	74.0	18.85	Peak	226.00	300	Vertical	Pass
6**	17014.600	44.13	54.0	9.87	AV	226.00	300	Vertical	Pass

1 GHz to 18 GHz, ANT H802.11ax20(SU) High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1333.668	43.84	74.0	30.16	Peak	239.00	400	Horizontal	Pass
1**	1333.668	37.90	54.0	16.10	AV	239.00	400	Horizontal	Pass
2	3000.300	48.17	74.0	25.83	Peak	359.00	100	Horizontal	Pass
2**	3000.300	40.81	54.0	13.19	AV	359.00	100	Horizontal	Pass
3	4813.342	49.77	74.0	24.23	Peak	307.00	200	Horizontal	Pass
3**	4813.342	38.31	54.0	15.69	AV	307.00	200	Horizontal	Pass
4	6887.952	50.66	74.0	23.34	Peak	85.00	300	Horizontal	Pass
4**	6887.952	47.09	54.0	6.91	AV	85.00	300	Horizontal	Pass
5	12490.248	55.31	74.0	18.69	Peak	317.00	400	Horizontal	Pass
5**	12490.248	44.05	54.0	9.95	AV	317.00	400	Horizontal	Pass
6	17090.711	55.01	74.0	18.99	Peak	37.00	100	Horizontal	Pass
6**	17090.711	46.12	54.0	7.88	AV	37.00	100	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11ax20(SU) High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1330.400	46.35	74.0	27.65	Peak	84.00	400	Vertical	Pass
1**	1330.400	36.05	54.0	17.95	AV	84.00	400	Vertical	Pass
2	2984.220	47.56	74.0	26.44	Peak	38.00	400	Vertical	Pass
2**	2984.220	44.22	54.0	9.78	AV	38.00	400	Vertical	Pass
3	4854.525	51.90	74.0	22.10	Peak	25.00	200	Vertical	Pass
3**	4854.525	42.09	54.0	11.91	AV	25.00	200	Vertical	Pass
4	7928.058	56.19	74.0	17.81	Peak	29.00	300	Vertical	Pass
4**	7928.058	43.68	54.0	10.32	AV	29.00	300	Vertical	Pass
5	12996.881	51.94	74.0	22.06	Peak	174.00	200	Vertical	Pass
5**	12996.881	44.40	54.0	9.60	AV	174.00	200	Vertical	Pass
6	17012.617	54.75	74.0	19.25	Peak	332.00	300	Vertical	Pass
6**	17012.617	48.28	54.0	5.72	AV	332.00	300	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11ax40(SU) Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1328.128	46.74	74.0	27.26	Peak	141.00	300	Horizontal	Pass
1**	1328.128	34.92	54.0	19.08	AV	141.00	300	Horizontal	Pass
2	2997.433	49.26	74.0	24.74	Peak	41.00	100	Horizontal	Pass
2**	2997.433	40.03	54.0	13.97	AV	41.00	100	Horizontal	Pass
3	4812.786	48.58	74.0	25.42	Peak	62.00	200	Horizontal	Pass
3**	4812.786	39.82	54.0	14.18	AV	62.00	200	Horizontal	Pass
4	6886.954	51.90	74.0	22.10	Peak	124.00	400	Horizontal	Pass
4**	6886.954	46.95	54.0	7.05	AV	124.00	400	Horizontal	Pass
5	12484.806	55.11	74.0	18.89	Peak	234.00	200	Horizontal	Pass
5**	12484.806	46.16	54.0	7.84	AV	234.00	200	Horizontal	Pass
6	17091.220	55.17	74.0	18.83	Peak	219.00	400	Horizontal	Pass
6**	17091.220	48.45	54.0	5.55	AV	219.00	400	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11ax40(SU) Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1331.720	45.95	74.0	28.05	Peak	68.00	100	Vertical	Pass
1**	1331.720	39.65	54.0	14.35	AV	68.00	100	Vertical	Pass
2	2981.056	47.48	74.0	26.52	Peak	282.00	300	Vertical	Pass
2**	2981.056	39.98	54.0	14.02	AV	282.00	300	Vertical	Pass
3	4856.369	47.85	74.0	26.15	Peak	270.00	200	Vertical	Pass
3**	4856.369	43.41	54.0	10.59	AV	270.00	200	Vertical	Pass
4	7933.691	51.33	74.0	22.67	Peak	60.00	100	Vertical	Pass
4**	7933.691	42.07	54.0	11.93	AV	60.00	100	Vertical	Pass
5	12997.649	51.75	74.0	22.25	Peak	316.00	400	Vertical	Pass
5**	12997.649	46.01	54.0	7.99	AV	316.00	400	Vertical	Pass
6	17016.674	54.47	74.0	19.53	Peak	40.00	100	Vertical	Pass
6**	17016.674	47.42	54.0	6.58	AV	40.00	100	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11ax40(SU) Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1328.466	42.61	74.0	31.39	Peak	64.00	100	Horizontal	Pass
1**	1328.466	36.47	54.0	17.53	AV	64.00	100	Horizontal	Pass
2	2998.350	51.71	74.0	22.29	Peak	295.00	400	Horizontal	Pass
2**	2998.350	43.96	54.0	10.04	AV	295.00	400	Horizontal	Pass
3	4811.507	51.12	74.0	22.88	Peak	25.00	200	Horizontal	Pass
3**	4811.507	40.48	54.0	13.52	AV	25.00	200	Horizontal	Pass
4	6885.903	51.45	74.0	22.55	Peak	80.00	400	Horizontal	Pass
4**	6885.903	45.86	54.0	8.14	AV	80.00	400	Horizontal	Pass
5	12488.258	56.71	74.0	17.29	Peak	114.00	300	Horizontal	Pass
5**	12488.258	44.62	54.0	9.38	AV	114.00	300	Horizontal	Pass
6	17092.438	53.38	74.0	20.62	Peak	145.00	200	Horizontal	Pass
6**	17092.438	47.98	54.0	6.02	AV	145.00	200	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11ax40(SU) Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1332.505	44.22	74.0	29.78	Peak	92.00	300	Vertical	Pass
1**	1332.505	35.27	54.0	18.73	AV	92.00	300	Vertical	Pass
2	2981.156	49.61	74.0	24.39	Peak	80.00	100	Vertical	Pass
2**	2981.156	39.67	54.0	14.33	AV	80.00	100	Vertical	Pass
3	4853.897	52.42	74.0	21.58	Peak	339.00	200	Vertical	Pass
3**	4853.897	42.43	54.0	11.57	AV	339.00	200	Vertical	Pass
4	7927.391	51.69	74.0	22.31	Peak	45.00	100	Vertical	Pass
4**	7927.391	42.31	54.0	11.69	AV	45.00	100	Vertical	Pass
5	12990.444	51.13	74.0	22.87	Peak	261.00	200	Vertical	Pass
5**	12990.444	42.69	54.0	11.31	AV	261.00	200	Vertical	Pass
6	17013.991	56.85	74.0	17.15	Peak	126.00	200	Vertical	Pass
6**	17013.991	47.53	54.0	6.47	AV	126.00	200	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11ax40(SU) High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1330.546	42.84	74.0	31.16	Peak	333.00	400	Horizontal	Pass
1**	1330.546	37.81	54.0	16.19	AV	333.00	400	Horizontal	Pass
2	2998.588	49.14	74.0	24.86	Peak	332.00	400	Horizontal	Pass
2**	2998.588	43.14	54.0	10.86	AV	332.00	400	Horizontal	Pass
3	4809.909	52.50	74.0	21.50	Peak	284.00	200	Horizontal	Pass
3**	4809.909	38.95	54.0	15.05	AV	284.00	200	Horizontal	Pass
4	6888.167	51.34	74.0	22.66	Peak	232.00	100	Horizontal	Pass
4**	6888.167	46.27	54.0	7.73	AV	232.00	100	Horizontal	Pass
5	12487.230	54.77	74.0	19.23	Peak	197.00	200	Horizontal	Pass
5**	12487.230	46.57	54.0	7.43	AV	197.00	200	Horizontal	Pass
6	17089.857	52.36	74.0	21.64	Peak	355.00	300	Horizontal	Pass
6**	17089.857	45.80	54.0	8.20	AV	355.00	300	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11ax40(SU) High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1336.886	47.59	74.0	26.41	Peak	240.00	400	Vertical	Pass
1**	1336.886	39.48	54.0	14.52	AV	240.00	400	Vertical	Pass
2	2979.453	50.04	74.0	23.96	Peak	3.00	200	Vertical	Pass
2**	2979.453	43.19	54.0	10.81	AV	3.00	200	Vertical	Pass
3	4853.993	50.05	74.0	23.95	Peak	265.00	200	Vertical	Pass
3**	4853.993	38.47	54.0	15.53	AV	265.00	200	Vertical	Pass
4	7933.852	51.92	74.0	22.08	Peak	96.00	100	Vertical	Pass
4**	7933.852	47.29	54.0	6.71	AV	96.00	100	Vertical	Pass
5	12996.327	50.61	74.0	23.39	Peak	194.00	100	Vertical	Pass
5**	12996.327	43.51	54.0	10.49	AV	194.00	100	Vertical	Pass
6	17018.168	53.21	74.0	20.79	Peak	227.00	200	Vertical	Pass
6**	17018.168	48.44	54.0	5.56	AV	227.00	200	Vertical	Pass

A.7 Band Edge (Restricted-band band-edge)

Note ¹: The lowest and highest channels are tested to verify the band edge emissions. Please refer to the following the plots for emissions values.

Note ²: The test data all are tested in the vertical and horizontal antenna which the trace is max hold. So these plots have shown the worst case.

Note ³: According the ANSI C63.10-2013, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

Note ⁴: All the configurations were pre tested, only the worst configuration has been reported in this report.

Note ⁵: All antenna were pre tested, but only the worst case has been reported in this report.

Test Data and Plots

SISO-Main Antenna

802.11b LOW CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2385.881	57.68	74.0	16.32	Peak	66.00	200	Horizontal	Pass
1**	2385.881	49.48	54.0	4.52	AV	66.00	200	Horizontal	Pass
2	2390.000	53.62	74.0	20.38	Peak	260.00	100	Horizontal	Pass
2**	2390.000	46.9	54.0	7.10	AV	260.00	100	Horizontal	Pass

802.11b HIGH CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	54.62	74.0	19.38	Peak	239.00	100	Horizontal	Pass
1**	2483.500	46.25	54.0	7.75	AV	239.00	100	Horizontal	Pass
2	2488.330	56.36	74.0	17.64	Peak	200.00	300	Horizontal	Pass
2**	2488.330	47.93	54.0	6.07	AV	200.00	300	Horizontal	Pass

802.11g LOW CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2383.983	57.5	74.0	16.50	Peak	282.00	100	Horizontal	Pass
1**	2383.983	51.38	54.0	2.62	AV	282.00	100	Horizontal	Pass
2	2390.000	56.41	74.0	17.59	Peak	322.00	200	Horizontal	Pass
2**	2390.000	46.51	54.0	7.49	AV	322.00	200	Horizontal	Pass

802.11g HIGH CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	57.45	74.0	16.55	Peak	309.00	200	Horizontal	Pass
1**	2483.500	44.89	54.0	9.11	AV	309.00	200	Horizontal	Pass
2	2486.365	58.55	74.0	15.45	Peak	163.00	100	Horizontal	Pass
2**	2486.365	49.9	54.0	4.10	AV	163.00	100	Horizontal	Pass

802.11n20 LOW CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2383.793	57.32	74.0	16.68	Peak	311.00	100	Horizontal	Pass
1**	2383.793	47.99	54.0	6.01	AV	311.00	100	Horizontal	Pass
2	2390.000	53.51	74.0	20.49	Peak	89.00	300	Horizontal	Pass
2**	2390.000	43.98	54.0	10.02	AV	89.00	300	Horizontal	Pass

802.11n20 HIGH CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	54.36	74.0	19.64	Peak	26.00	300	Horizontal	Pass
1**	2483.500	46.3	54.0	7.70	AV	26.00	300	Horizontal	Pass
2	2486.977	56.84	74.0	17.16	Peak	102.00	100	Horizontal	Pass
2**	2486.977	48.91	54.0	5.09	AV	102.00	100	Horizontal	Pass

802.11n40 LOW CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2384.043	58.2	74.0	15.80	Peak	60.00	300	Horizontal	Pass
1**	2384.043	47.99	54.0	6.01	AV	60.00	300	Horizontal	Pass
2	2390.000	53.67	74.0	20.33	Peak	355.00	100	Horizontal	Pass
2**	2390.000	45.94	54.0	8.06	AV	355.00	100	Horizontal	Pass

802.11n40 HIGH CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	57.16	74.0	16.84	Peak	293.00	300	Horizontal	Pass
1**	2483.500	45.29	54.0	8.71	AV	293.00	300	Horizontal	Pass
2	2488.581	59.69	74.0	14.31	Peak	137.00	100	Horizontal	Pass
2**	2488.581	46.4	54.0	7.60	AV	137.00	100	Horizontal	Pass

802.11ax20(SU) LOW CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2383.903	58.64	74.0	15.36	Peak	332.00	100	Horizontal	Pass
1**	2383.903	51.45	54.0	2.55	AV	332.00	100	Horizontal	Pass
2	2390.000	53.82	74.0	20.18	Peak	345.00	300	Horizontal	Pass
2**	2390.000	47.38	54.0	6.62	AV	345.00	300	Horizontal	Pass

802.11ax20(SU) HIGH CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	54.93	74.0	19.07	Peak	88.00	200	Horizontal	Pass
1**	2483.500	46.92	54.0	7.08	AV	88.00	200	Horizontal	Pass
2	2486.547	59.71	74.0	14.29	Peak	256.00	300	Horizontal	Pass
2**	2486.547	48.08	54.0	5.92	AV	256.00	300	Horizontal	Pass

802.11ax40(SU) LOW CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2384.820	57.39	74.0	16.61	Peak	126.00	100	Horizontal	Pass
1**	2384.820	50.9	54.0	3.10	AV	126.00	100	Horizontal	Pass
2	2390.000	55.33	74.0	18.67	Peak	293.00	200	Horizontal	Pass
2**	2390.000	45.44	54.0	8.56	AV	293.00	200	Horizontal	Pass

802.11ax40(SU) HIGH CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	54.52	74.0	19.48	Peak	246.00	100	Horizontal	Pass
1**	2483.500	44.24	54.0	9.76	AV	246.00	100	Horizontal	Pass
2	2487.650	59.51	74.0	14.49	Peak	250.00	200	Horizontal	Pass
2**	2487.650	46.99	54.0	7.01	AV	250.00	200	Horizontal	Pass

A.8 Power Spectral Density (PSD)

Note ¹: All the configurations were pre tested, only the worst configuration has been reported in this report.

Note ²: All antenna were pre tested, but only the worst case has been reported in this report.

Test Data

SISO-Main Antenna

802.11b Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-6.83	8
Middle	-5.93	8
High	-7.70	8

802.11g Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-8.71	8
Middle	-4.70	8
High	-9.31	8

802.11n-20 MHz Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-9.15	8
Middle	-5.08	8
High	-8.64	8

802.11n-40 MHz Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-14.36	8
Middle	-10.04	8
High	-14.65	8

802.11ax-20 MHz(SU) Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-9.11	8
Middle	-6.96	8
High	-10.09	8

802.11ax-40 MHz(SU) Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-13.07	8
Middle	-10.78	8
High	-12.84	8

802.11ax-20 MHz(RU26) Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-6.78	8
Middle	-6.35	8
High	-5.91	8

802.11ax-40 MHz(RU26) Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-8.37	8
Middle	-9.76	8
High	-5.44	8

Test Plots

SISO-Main Antenna

802.11b LOW CHANNEL



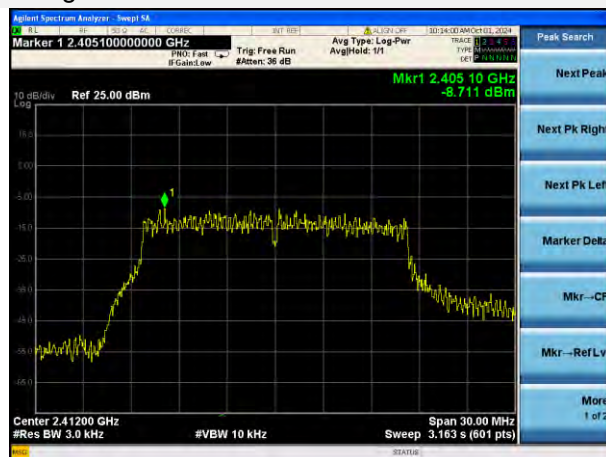
802.11b MIDDLE CHANNEL



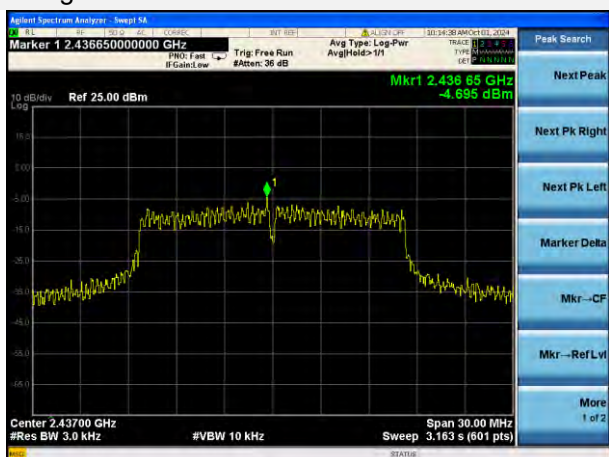
802.11b HIGH CHANNEL



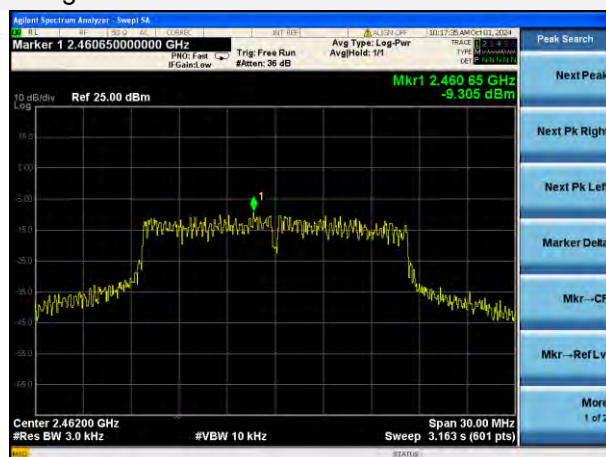
802.11g LOW CHANNEL



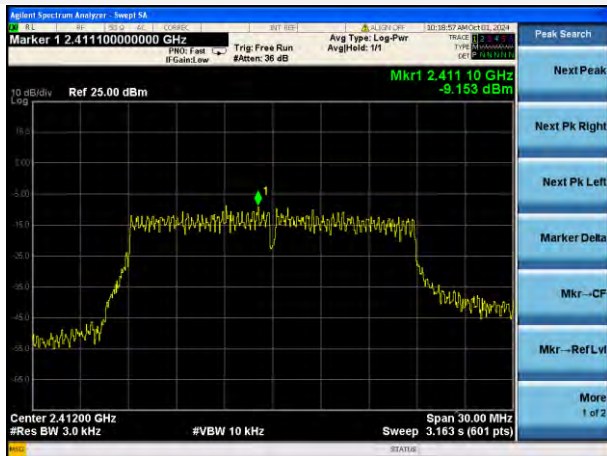
802.11g MIDDLE CHANNEL



802.11g HIGH CHANNEL



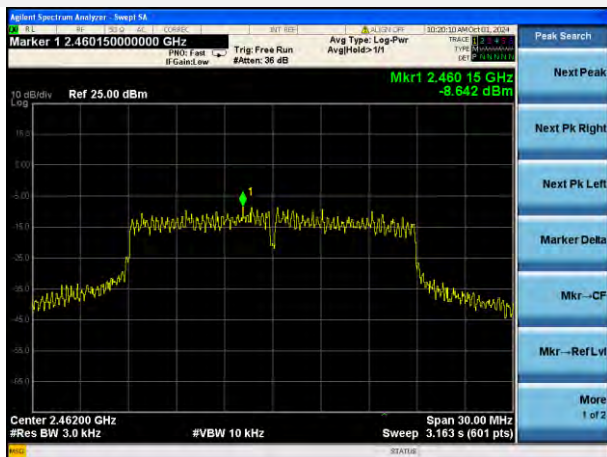
802.11n-20 MHz LOW CHANNEL



802.11n-20 MHz MIDDLE CHANNEL



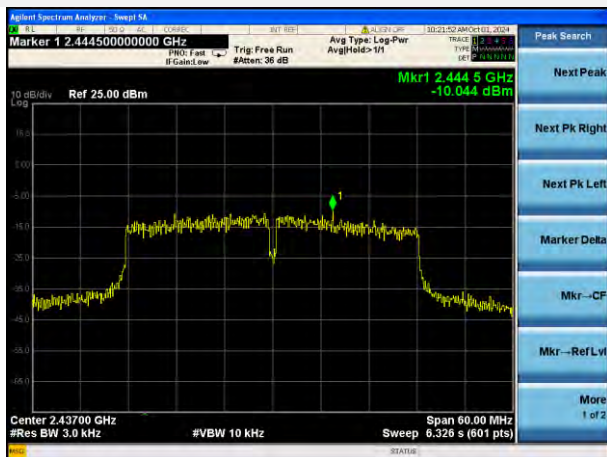
802.11n-20 MHz HIGH CHANNEL



802.11n-40 MHz LOW CHANNEL



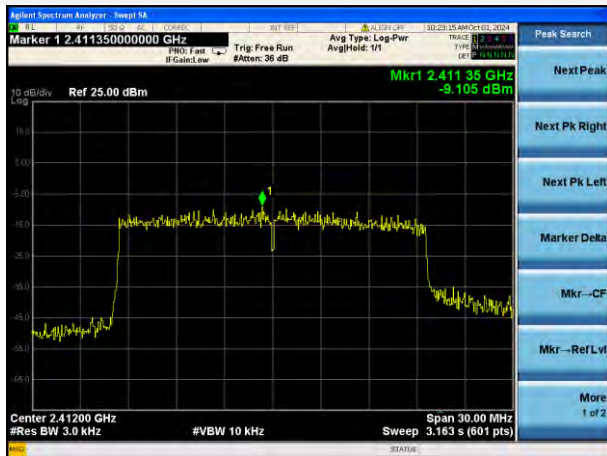
802.11n-40 MHz MIDDLE CHANNEL



802.11n-40 MHz HIGH CHANNEL



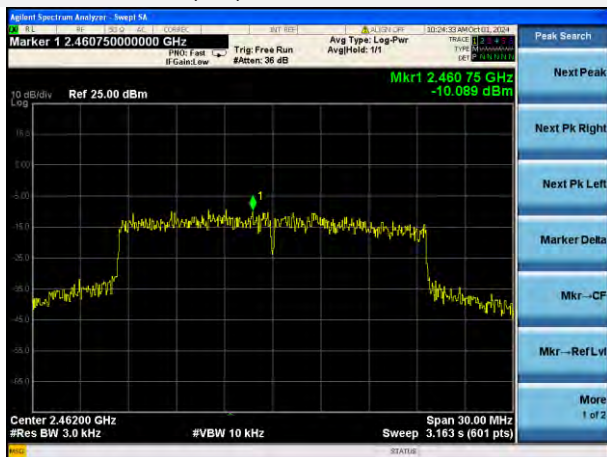
802.11ax-20 MHz(SU) LOW CHANNEL



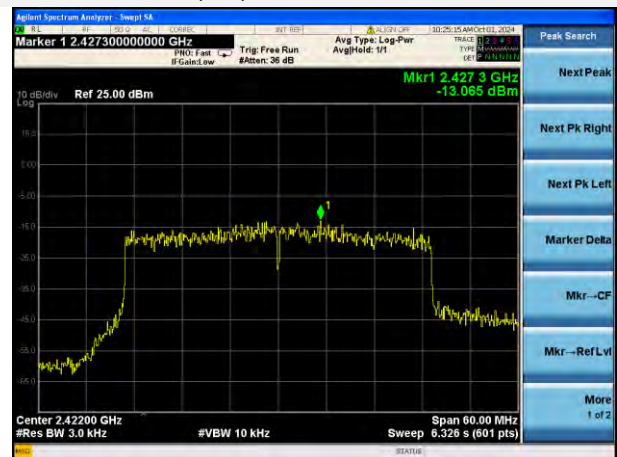
802.11ax-20 MHz(SU) MIDDLE CHANNEL



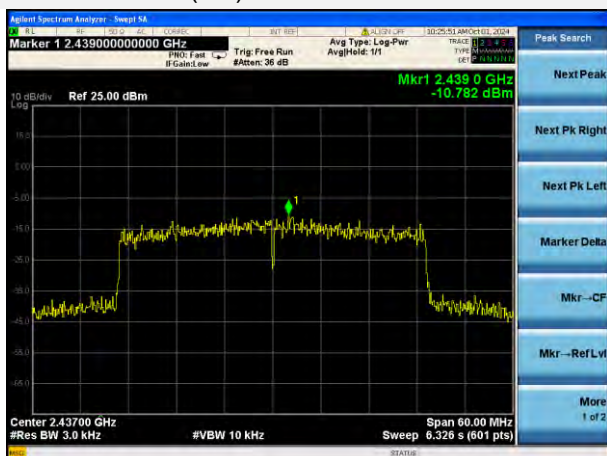
802.11ax-20 MHz(SU) HIGH CHANNEL



802.11ax-40 MHz(SU) LOW CHANNEL



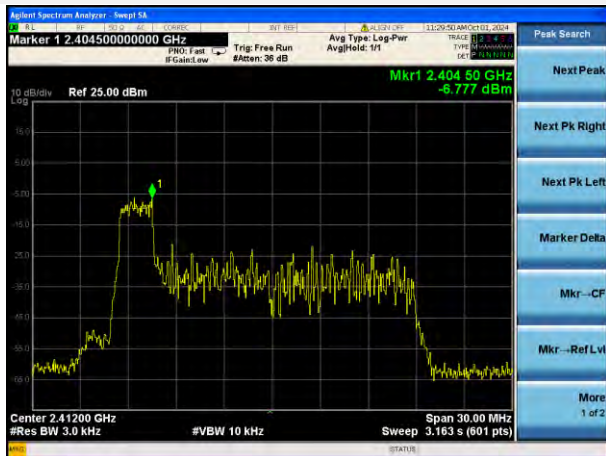
802.11ax-40 MHz(SU) MIDDLE CHANNEL



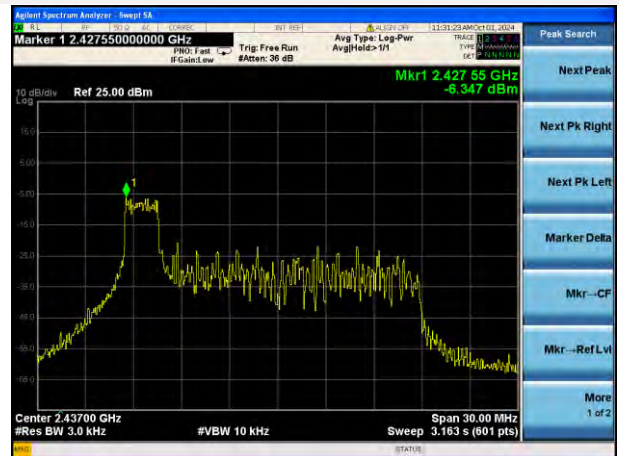
802.11ax-40 MHz(SU) HIGH CHANNEL



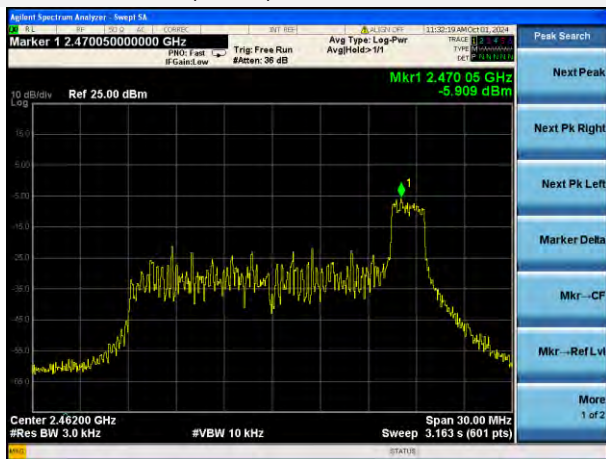
802.11ax-20 MHz(RU26) LOW CHANNEL



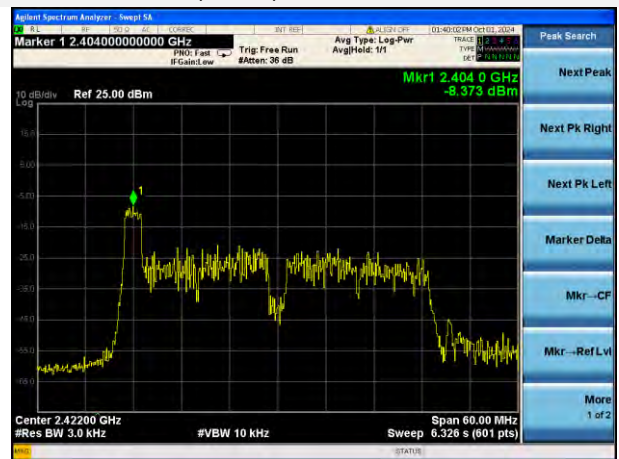
802.11ax-20 MHz(RU26) MIDDLE CHANNEL



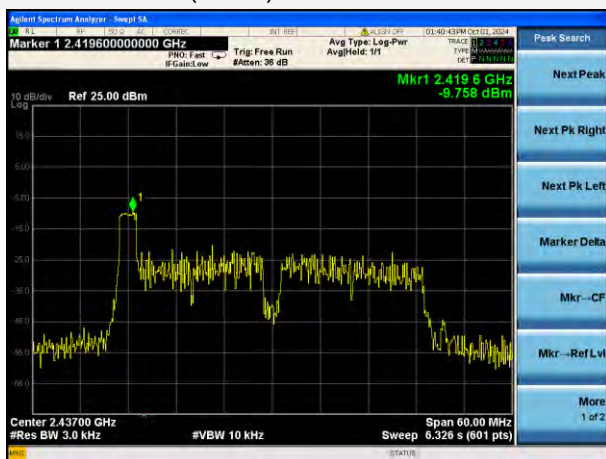
802.11ax-20 MHz(RU26) HIGH CHANNEL



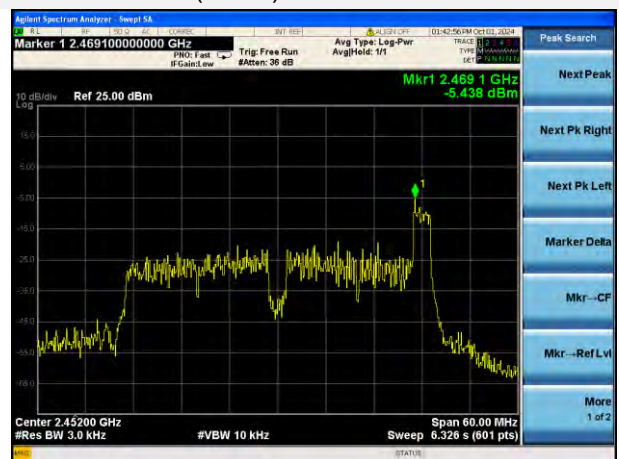
802.11ax-40 MHz(RU26) LOW CHANNEL



802.11ax-40 MHz(RU26) MIDDLE CHANNEL



802.11ax-40 MHz(RU26) HIGH CHANNEL



ANNEX B TEST SETUP PHOTOS

Please refer the document “BL-SZ2490583-AR.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SZ2490583-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SZ2490583-AI.PDF”.

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--END OF REPORT--