



TEST REPORT

Applicant: Acer Incorporated
Address: 8F, 88, Sec. 1, Xintai 5th Rd. Xizhi, New Taipei City
221 Taiwan
Equipment Type: Tablet PC
Model Name: A25010
Brand Name: acer
Marketing Name: Iconia A12, A12-21P
FCC ID: HLZA25010
ISED Number: 1754F-A25010
Test Standard: 47 CFR Part 15 Subpart C
RSS-Gen Issue 5
RSS-247 Issue 3
(refer to section 3.1)
Sample Arrival Date: Jul. 01, 2025
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ISSUED BY:

Shenzhen BALUN Technology Co., Ltd.

**Tested by:** Julie Zhu**Checked by:** Ye Hongji**Approved by:** Sunny Zou
(Technical Director)

Julie Zhu

Ye Hongji

Sunny Zou

Revision History

Version	Issue Date	Revisions
<u>Rev. 01</u>	<u>Sep. 25, 2025</u>	<u>Initial Issue</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. The laboratory has been listed by Industry Canada to perform electromagnetic emission measurements. The recognition numbers of test site are 11524A.

2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	Acer Incorporated
Address	8F, 88, Sec.1 Xintai 5th Rd. Xizhi, New Taipei City 221, Taiwan

2.2 Manufacturer Information

Manufacturer	Acer Incorporated
Address	8F, 88, Sec.1 Xintai 5th Rd. Xizhi, New Taipei City 221, Taiwan

2.3 General Description for Equipment under Test (EUT)

EUT Name	Tablet PC
Model Name Under Test	A25010
Series Model Name	N/A
Description of Model name differentiation	N/A
Marketing Name	Iconia A12, A12-21P
Serial Number	N8LJVWW00252302E589H00
Hardware Version	W30A333-20T25G
Software Version	Android 15
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
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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 Technology	DSSS, OFDM, OFDMA
Product Type	☐ Mobile ☒ Portable ☐ Fix Location
Antenna System (eg., MIMO, Smart Antenna)	N/A
Categorization as Correlated or Completely Uncorrelated	N/A
Antenna Type	PIFA Antenna
Antenna Gain	0.38 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.

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	RSS-Gen Issue 5	General Requirements for Compliance of Radio Apparatus
3	RSS-247 Issue 3	Digital Transmission Systems (DTSs), Frequency Hopping Systems(FHSs) and Licence-Exempt Local Area Network (LE-LAN) Devices
4	ANSI C63.10-2020	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices
5☆	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.	ISED Part No.	Test Result	Verdict
1	Antenna Requirement	15.203	RSS-247, 5.4 (f)	N/A	Pass ^{Note 1}
2	Output Power	15.247 (b)	RSS-247, 5.4 (d)	ANNEX A.1	Pass
3	Occupied Bandwidth	15.247 (a)	RSS-GEN, 6.7; RSS-247, 5.2 (a)	ANNEX A.2	Pass
4	Conducted Spurious Emission	15.247 (d)	RSS-247, 5.5	ANNEX A.3	Pass
5	Band Edge(Authorized-band band-edge)	15.247 (d)	RSS-GEN, 8.9; RSS-247, 5.5	ANNEX A.4	Pass
6	Conducted Emission	15.207	RSS-GEN, 8.8	ANNEX A.5	Pass
7	Radiated Spurious Emission	15.209; 15.247 (d)	RSS-247, 5.5	ANNEX A.6	Pass
8	Band Edge(Restricted-band band-edge)	15.209; 15.247 (d)	RSS-247, 5.5	ANNEX A.7	Pass
9	Power spectral density (PSD)	15.247 (e)	RSS-247, 5.2 (b)	ANNEX A.8	Pass
10	Receiver Spurious Emissions	N/A	RSS-Gen, 7.3	N/A	N/A ^{Note 2}

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

Note ²: Only radio communication receivers operating in stand-alone mode within the band 30-960 MHz, as well as scanner receivers, are subject to Industry Canada requirements, so this test is not applicable.

4 GENERAL TEST CONFIGURATIONS

4.1 Test Environments

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

Relative Humidity	52% to 60%	
Atmospheric Pressure	100 kPa to 102 kPa	
Temperature	NT (Normal Temperature)	+20.1℃ to +25.8℃
Working Voltage of the EUT	NV (Normal Voltage)	3.85 V

4.2 Test Equipment List

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer	KEYSIGHT	N9020A	MY46471071	2025.06.16	2026.06.15
Power Sensor	KEYSIGHT	U2063XA	MY58000247	2025.06.16	2026.06.15
Spectrum Analyzer	KEYSIGHT	N9020A	MY52510065	2024.08.01	2025.07.31
Test Antenna-Horn	SCHWARZBECK	BBHA 9120D	01631	2025.02.22	2028.02.21
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-Bi-Log	SCHWARZBECK	VULB 9168	9168-01162	2023.08.04	2026.08.03
Test Antenna-Loop	SCHWARZBECK	FMZB 1519	1519-037	2024.01.23	2027.01.22
Amplifier	COM-MV	ZT30-1000M	B2018054558	2024.11.28	2025.11.27
Anechoic Chamber	EMC Electronic Co., Ltd	20.10*11.60*7.35m	130	2024.07.13	2027.07.12
EMI Receiver	KEYSIGHT	N9010B	MY57110309	2024.08.01	2025.07.31
LISN	SCHWARZBECK	NSLK 8127	8127-687	2025.04.29	2026.04.28
Shielded Enclosure	YiHeng Electronic Co., Ltd	3.5m*3.1m*2.8m	112	2025.02.14	2028.02.13

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%

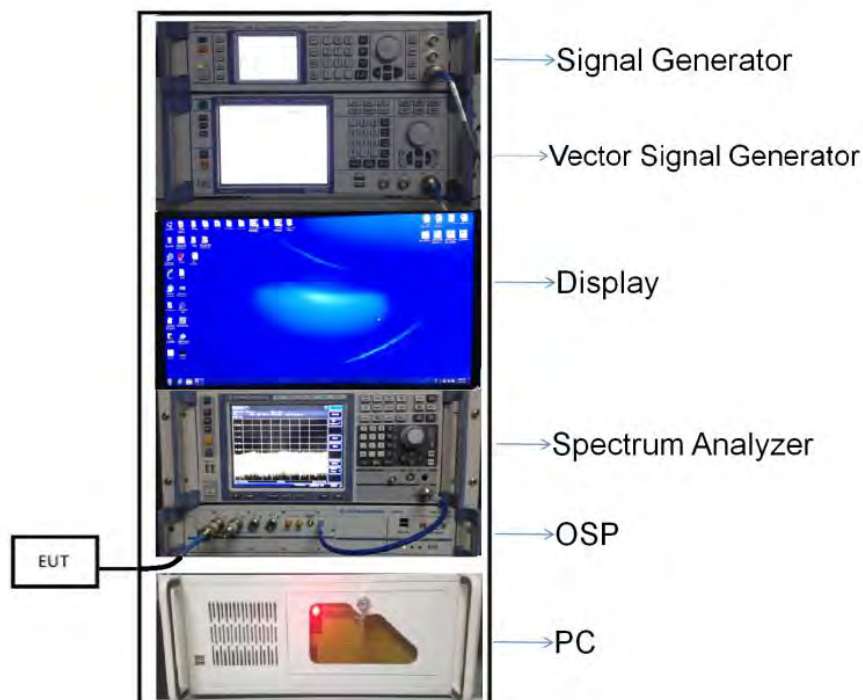
4.5 Description of Test Setup

4.5.1 For Antenna Port Test

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

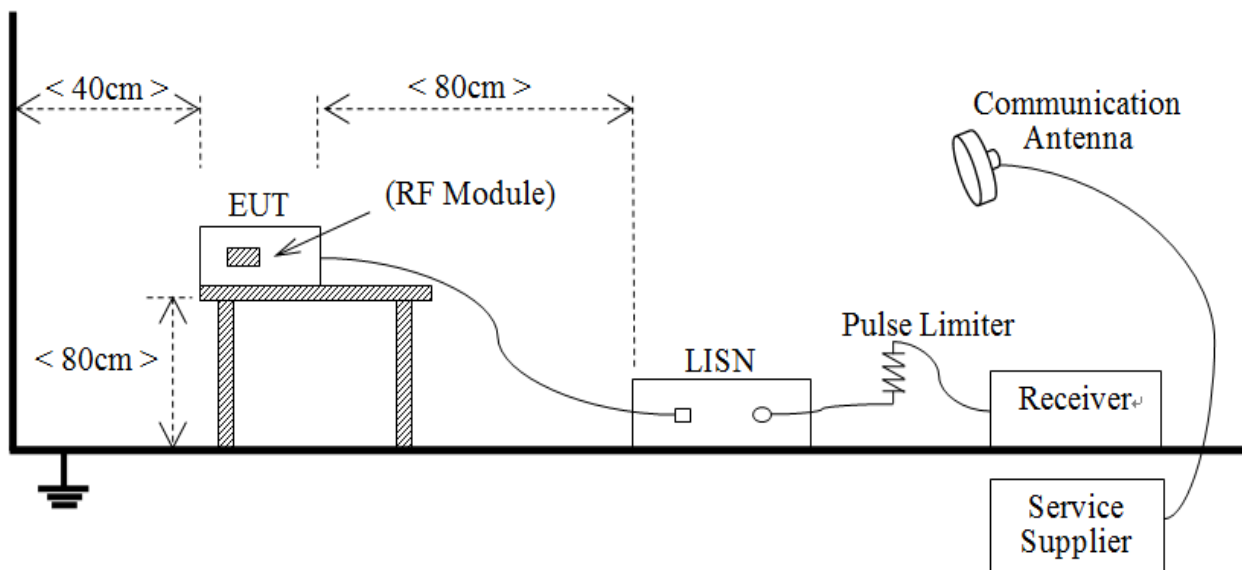
For example: the measurement value is 10 dBm and the cable 0.5dBm used, then the final result of EUT:

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



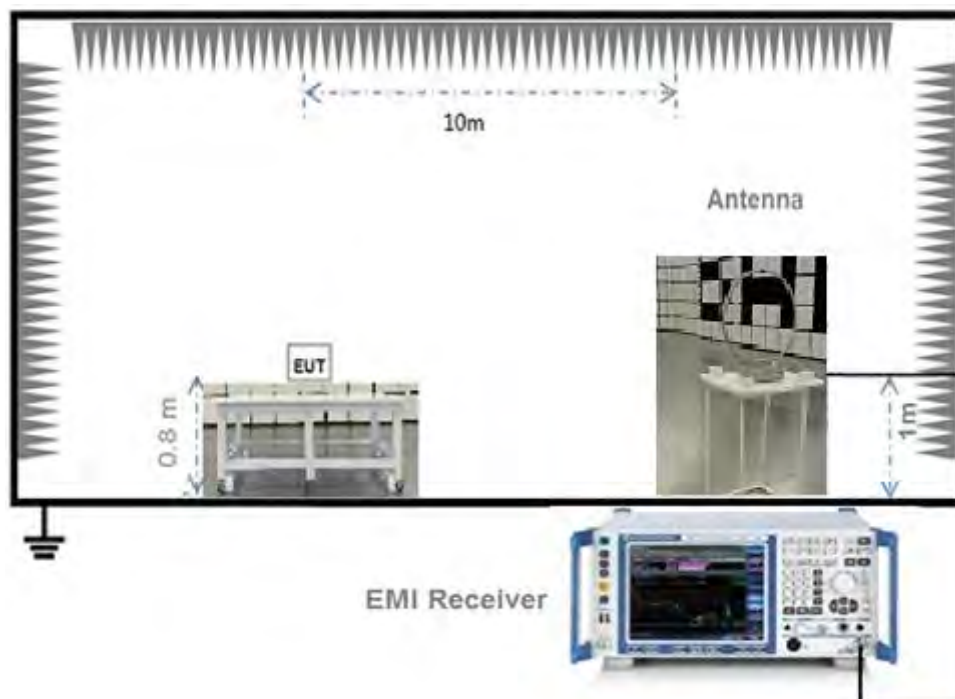
(Diagram 1)

4.5.2 For AC Power Supply Port Test



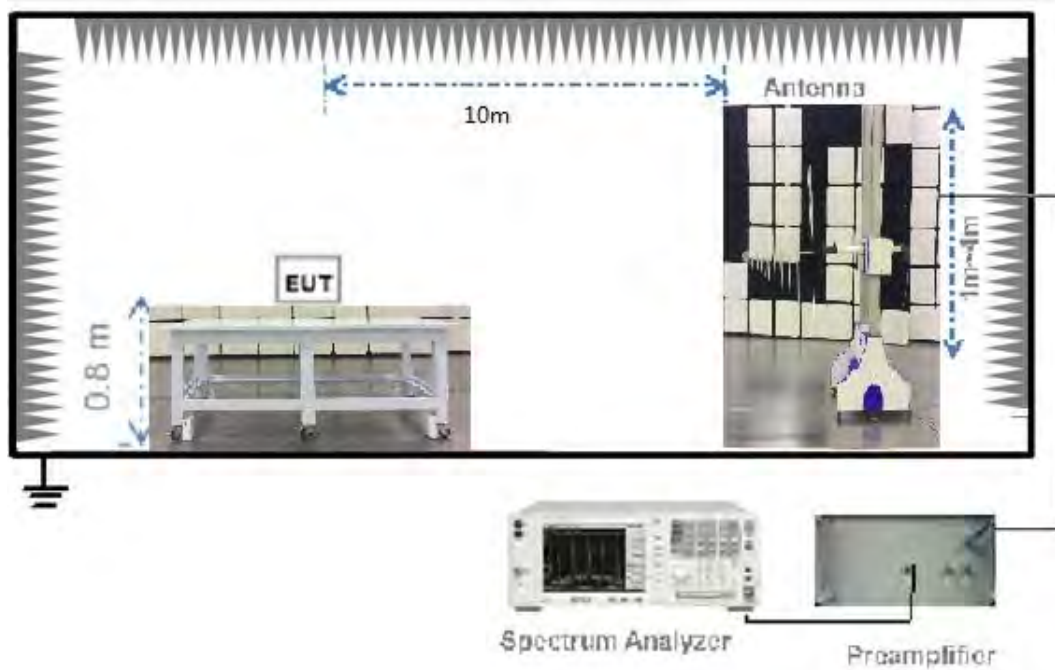
(Diagram 2)

4.5.3 For Radiated Test (Below 30 MHz)



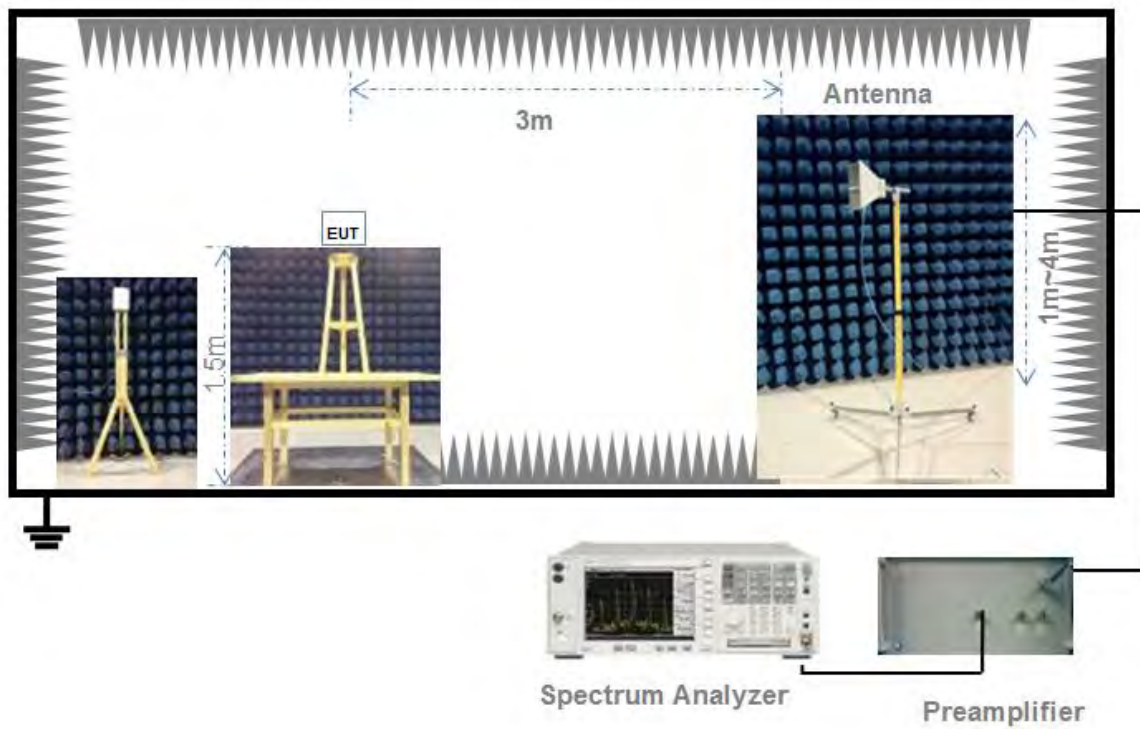
(Diagram 3)

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; RSS-247, 5.4 (f)

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); RSS-247, 5.4 (d)

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.

EIRP= Maximum peak conducted output power +Antenna Gain.

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); RSS-GEN, 6.7; RSS-247, 5.2 (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); RSS-247, 5.5

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); RSS-GEN, 8.9, RSS-247, 5.5

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; RSS-GEN, 8.8

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); RSS-247, 5.5

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 ($\mu\text{V/m}$)	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); RSS-247, 5.5

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); RSS-247, 5.2 (b)

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	8.40	8.64	97.26%	0.12
802.11g	1.39	1.56	88.92%	0.51
802.11n-20 MHz	5.08	5.20	97.71%	0.10
802.11n-40 MHz	4.89	5.10	95.83%	0.19
802.11ax-20 MHz	3.87	4.08	94.90%	0.23
802.11ax-40 MHz	3.87	4.05	95.43%	0.20

Peak Power Test Data**802.11b Mode:**

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	14.87	30.69	30	1000	Pass
Middle	14.49	28.12			Pass
High	15.21	33.19			Pass

802.11g Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	19.61	91.41	30	1000	Pass
Middle	20.07	101.62			Pass
High	19.63	91.83			Pass

802.11n-20 MHz Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	18.56	71.78	30	1000	Pass
Middle	19.08	80.91			Pass
High	18.46	70.15			Pass

802.11n-40 MHz Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	19.41	87.30	30	1000	Pass
Middle	20.19	104.47			Pass
High	19.90	97.72			Pass

802.11ax-20 MHz(SU) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	18.40	69.18	30	1000	Pass
Middle	18.80	75.86			Pass
High	18.32	67.92			Pass

802.11ax-40 MHz(SU) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	18.17	65.61	30	1000	Pass
Middle	18.77	75.34			Pass
High	18.54	71.45			Pass

Average Power Test Data

802.11b Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	12.18	16.52	30	1000	Pass
Middle	11.79	15.10			Pass
High	12.54	17.95			Pass

802.11g Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	13.19	20.84	30	1000	Pass
Middle	13.56	22.70			Pass
High	13.10	20.42			Pass

802.11n-20 MHz Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	12.92	19.59	30	1000	Pass
Middle	12.86	19.32			Pass
High	12.89	19.45			Pass

802.11n-40 MHz Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	13.29	21.33	30	1000	Pass
Middle	14.09	25.64			Pass
High	13.82	24.10			Pass

802.11ax-20 MHz(SU) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	10.41	10.99	30	1000	Pass
Middle	10.80	12.02			Pass
High	10.36	10.86			Pass

802.11ax-40 MHz(SU) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	10.21	10.50	30	1000	Pass
Middle	10.88	12.25			Pass
High	10.05	10.12			Pass

E.I.R.P Test Data (For ISSED)

802.11b Mode:

Channel	E.I.R.P		Limit		Verdict
	dBm	mW	dBm	W	
Low	15.25	33.50	36	4	Pass
Middle	14.87	30.69			Pass
High	15.59	36.22			Pass

802.11g Mode:

Channel	E.I.R.P		Limit		Verdict
	dBm	mW	dBm	W	
Low	19.99	99.77	36	4	Pass
Middle	20.45	110.92			Pass
High	20.01	100.23			Pass

802.11n-20 MHz Mode:

Channel	E.I.R.P		Limit		Verdict
	dBm	mW	dBm	W	
Low	18.94	78.34	36	4	Pass
Middle	19.46	88.31			Pass
High	18.84	76.56			Pass

802.11n-40 MHz Mode:

Channel	E.I.R.P		Limit		Verdict
	dBm	mW	dBm	W	
Low	19.79	95.28	36	4	Pass
Middle	20.57	114.02			Pass
High	20.28	106.66			Pass

802.11ax-20 MHz(SU) Mode:

Channel	E.I.R.P		Limit		Verdict
	dBm	mW	dBm	W	
Low	18.78	75.51	36	4	Pass
Middle	19.18	82.79			Pass
High	18.70	74.13			Pass

802.11ax-40 MHz(SU) Mode:

Channel	E.I.R.P		Limit		Verdict
	dBm	mW	dBm	W	
Low	18.55	71.61	36	4	Pass
Middle	19.15	82.22			Pass
High	18.92	77.98			Pass

A.2 Occupied Bandwidth

Test Data

802.11b Mode:

Channel	6 dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limits (kHz)
Low	8.800000	13.102000	≥500
Middle	8.800000	13.126000	≥500
High	9.300000	13.136000	≥500

802.11g Mode:

Channel	6 dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limits (kHz)
Low	16.500000	17.931000	≥500
Middle	16.500000	17.940000	≥500
High	16.300000	17.846000	≥500

802.11n-20MHz Mode:

Channel	6 dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limits (kHz)
Low	17.300000	19.039000	≥500
Middle	17.400000	18.982000	≥500
High	17.400000	19.007000	≥500

802.11n-40MHz Mode:

Channel	6 dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limits (kHz)
Low	35.500000	36.659000	≥500
Middle	36.100000	36.627000	≥500
High	34.300000	36.620000	≥500

802.11ax-20 MHz(SU) Mode:

Channel	6 dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limits (kHz)
Low	18.700000	19.474000	≥500
Middle	18.500000	19.401000	≥500
High	18.500000	19.483000	≥500

802.11ax-40 MHz(SU) Mode:

Channel	6 dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limits (kHz)
Low	37.500000	37.863000	≥500
Middle	37.300000	37.908000	≥500
High	37.700000	37.945000	≥500

Test Plots

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



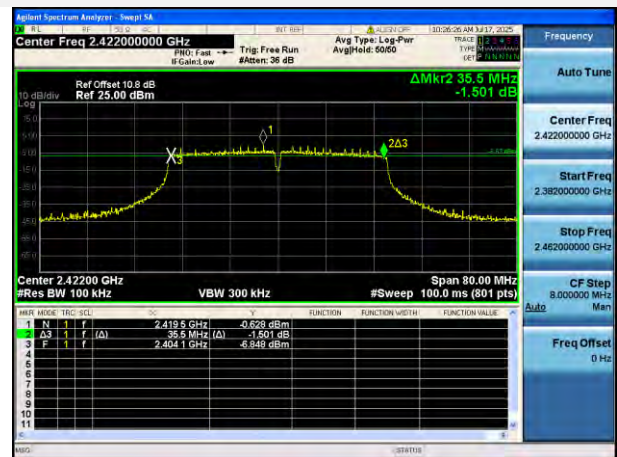
802.11n-20 MHz MIDDLE CHANNEL



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



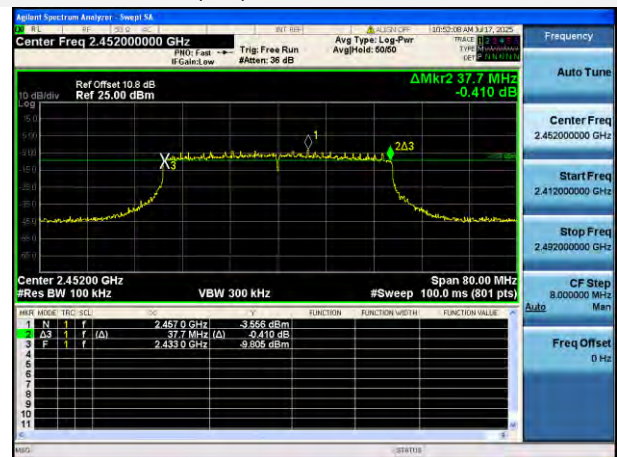
802.11ax-40 MHz(SU) LOW CHANNEL



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



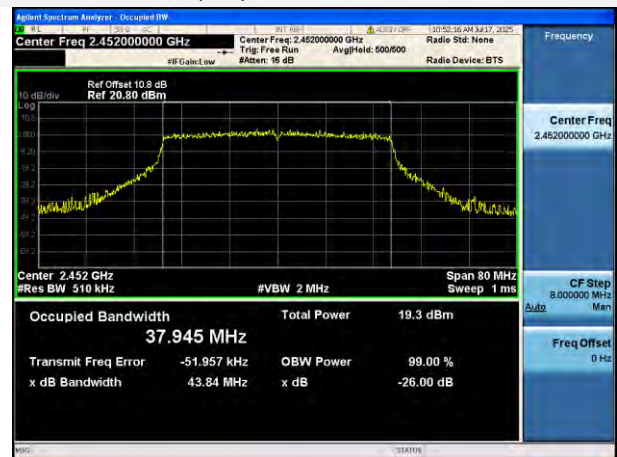
802.11ax-40 MHz(SU) LOW CHANNEL



802.11ax-40 MHz(SU) MIDDLE CHANNEL



802.11ax-40 MHz(SU) HIGH CHANNEL



A.3 Conducted Spurious Emissions

Test Data

802.11b Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-36.53	3.65	-16.35	Pass
Middle	-36.89	3.22	-16.78	Pass
High	-36.36	3.99	-16.01	Pass

802.11g Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-35.80	3.13	-16.87	Pass
Middle	-35.40	3.88	-16.12	Pass
High	-35.84	3.37	-16.63	Pass

802.11n-20MHz Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-36.81	2.16	-17.84	Pass
Middle	-36.67	2.69	-17.31	Pass
High	-37.29	1.46	-18.54	Pass

802.11n-40MHz Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-36.52	-0.10	-20.10	Pass
Middle	-35.81	0.53	-19.47	Pass
High	-36.82	0.27	-19.73	Pass

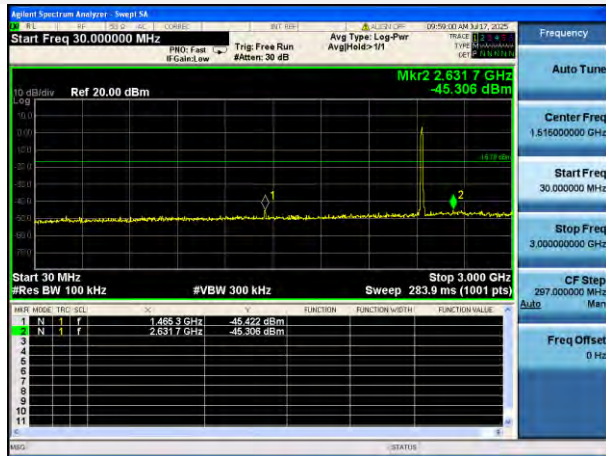
802.11ax-20 MHz(SU) Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-37.53	0.07	-19.93	Pass
Middle	-36.98	0.34	-19.66	Pass
High	-35.82	0.09	-19.91	Pass

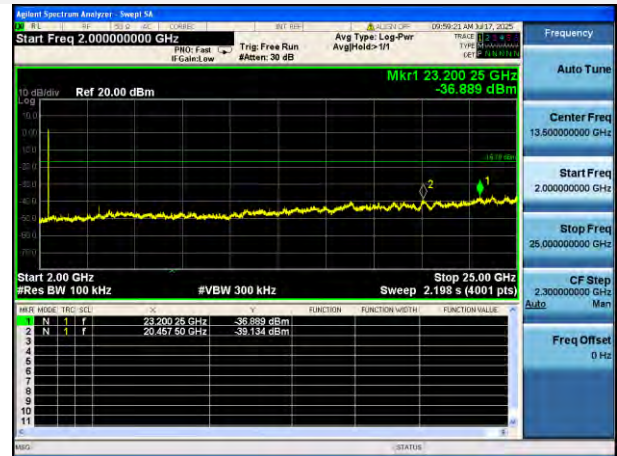
802.11ax-40 MHz(SU) Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-35.38	-3.36	-23.36	Pass
Middle	-36.36	-2.61	-22.61	Pass
High	-36.26	-2.90	-22.90	Pass

802.11b MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



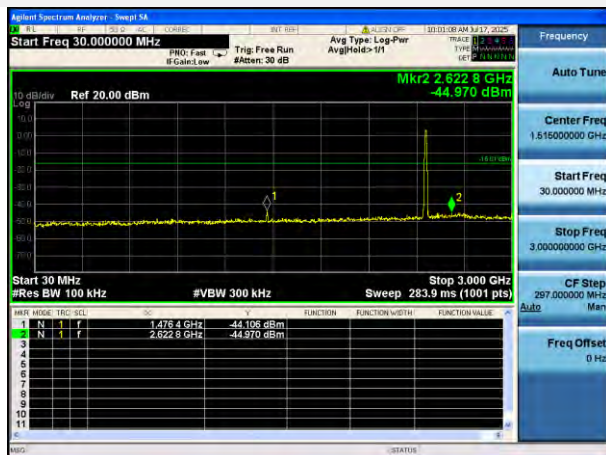
802.11b MIDDLE CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



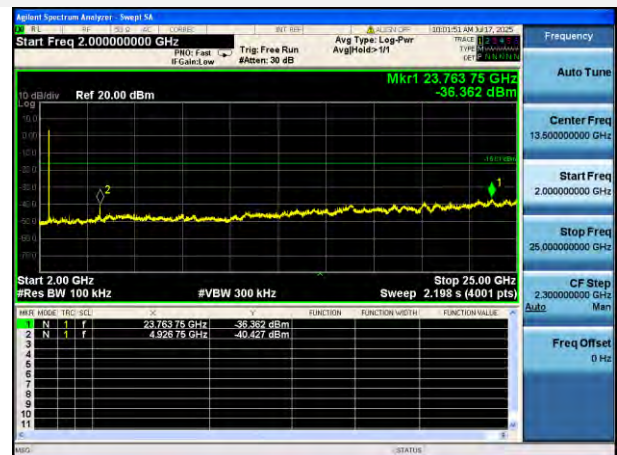
802.11b HIGH CHANNEL CARRIER LEVEL



802.11b HIGH CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



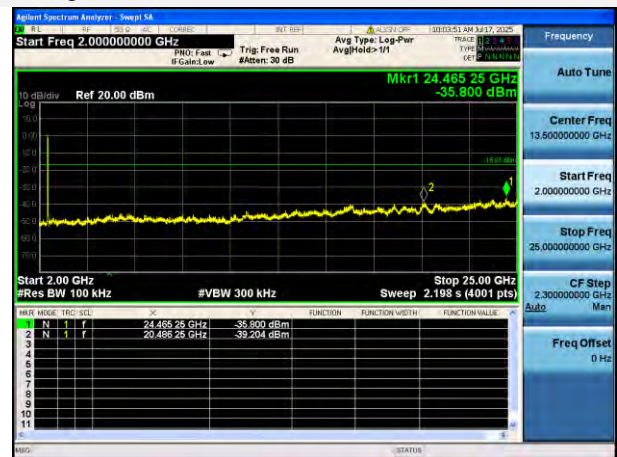
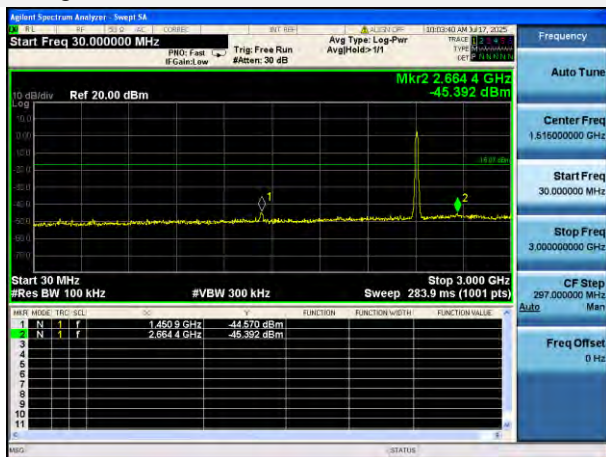
802.11b HIGH CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



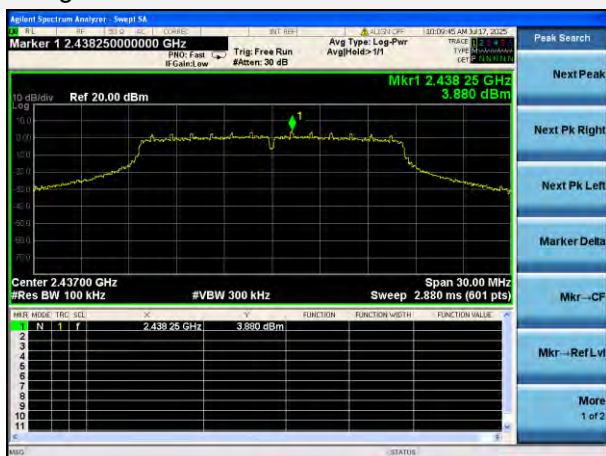
802.11g LOW CHANNEL CARRIER LEVEL



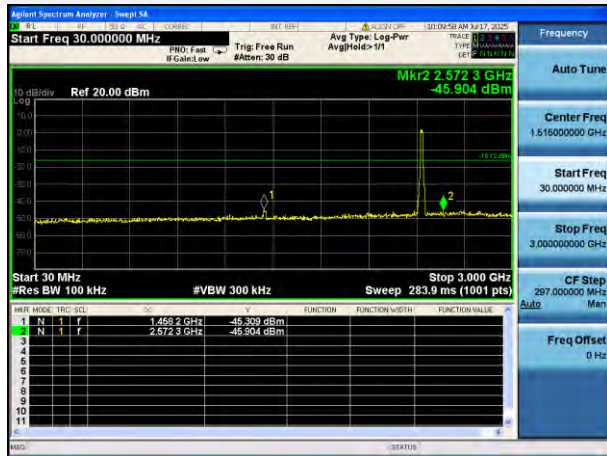
802.11g LOW CHANNEL, SPURIOUS 30 MHz ~ 3 GHz 802.11g LOW CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



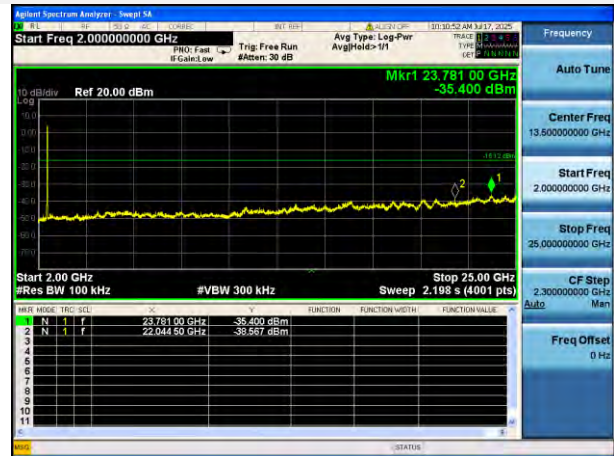
802.11g MIDDLE CHANNEL CARRIER LEVEL



802.11g MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



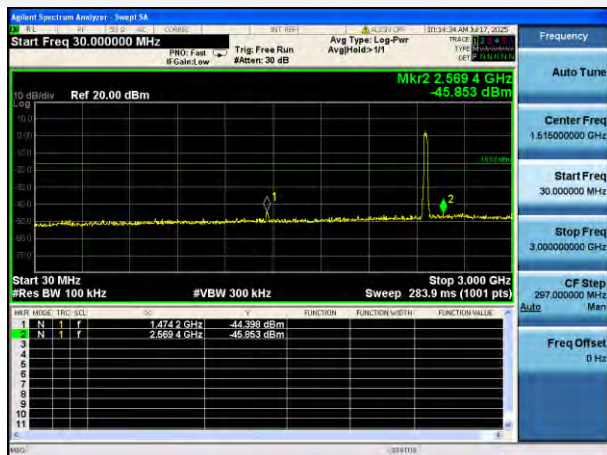
802.11g MIDDLE CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



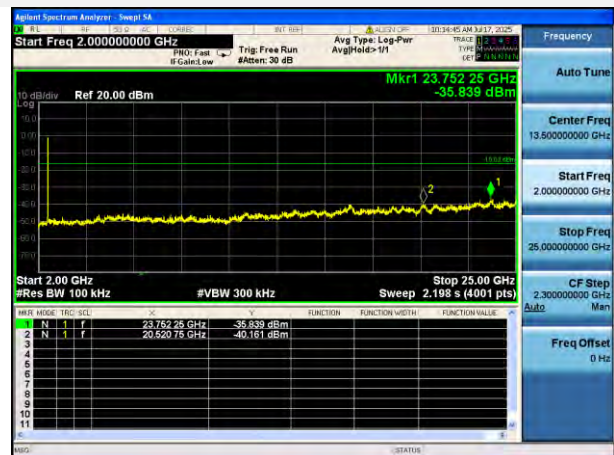
802.11g HIGH CHANNEL CARRIER LEVEL



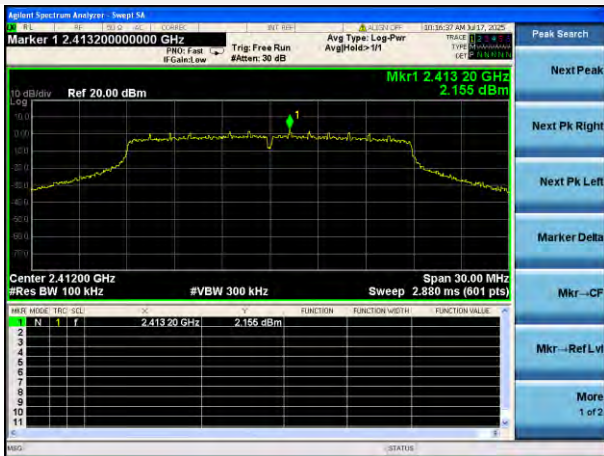
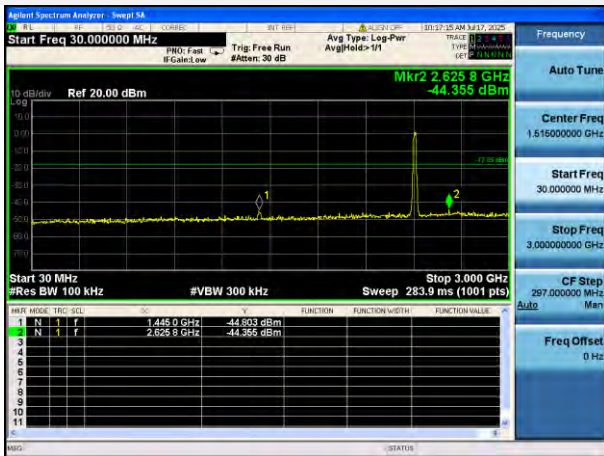
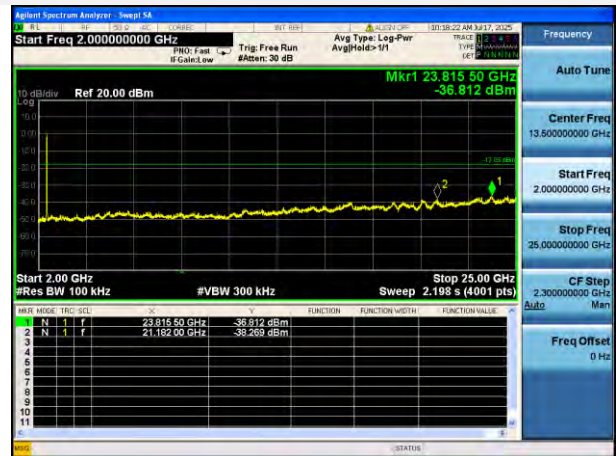
802.11g HIGH CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



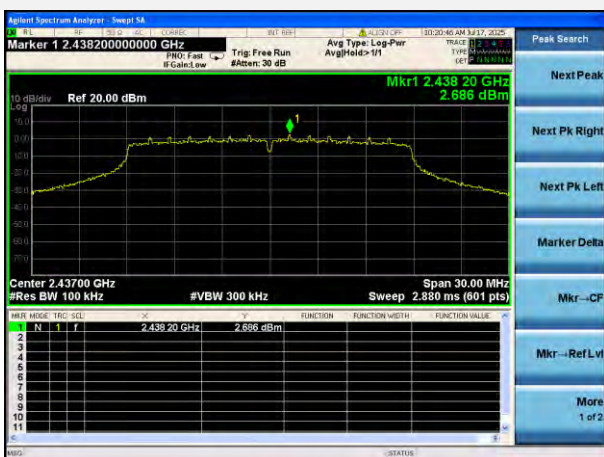
802.11g HIGH CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



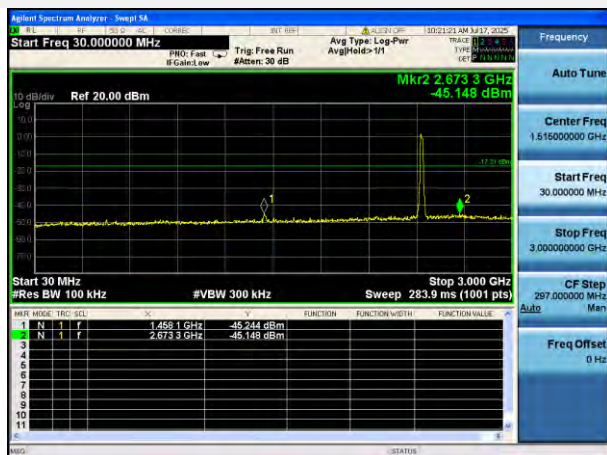
802.11n-20 MHz LOW CHANNEL CARRIER LEVEL

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

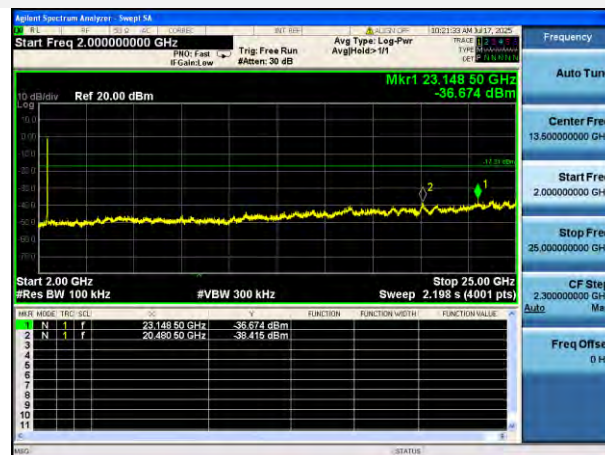
802.11n-20 MHz MIDDLE CHANNEL CARRIER LEVEL



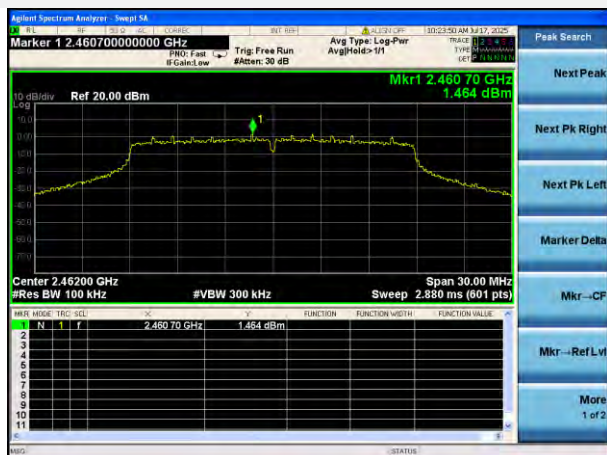
802.11n-20 MHz MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



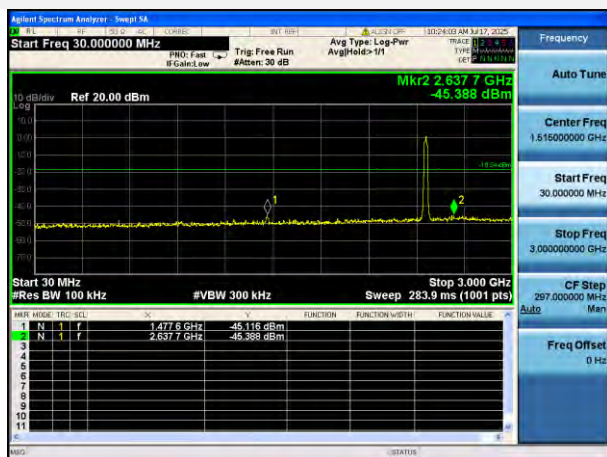
802.11n-20 MHz MIDDLE CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



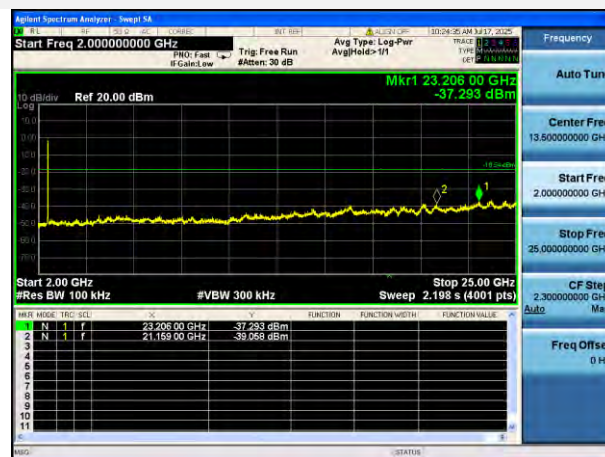
802.11n-20 MHz HIGH CHANNEL CARRIER LEVEL



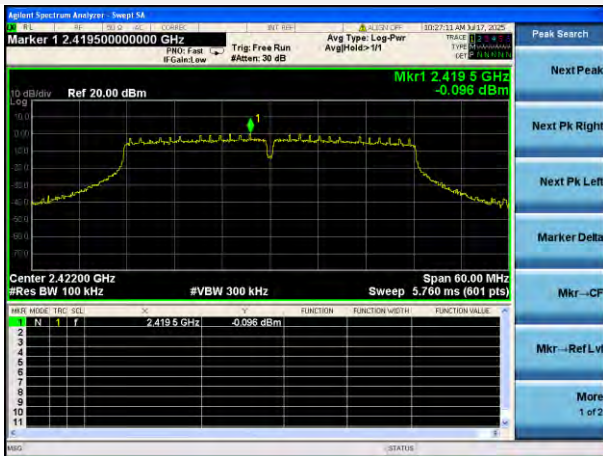
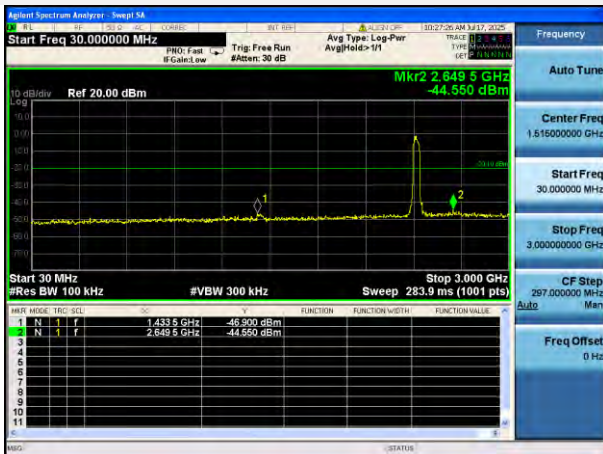
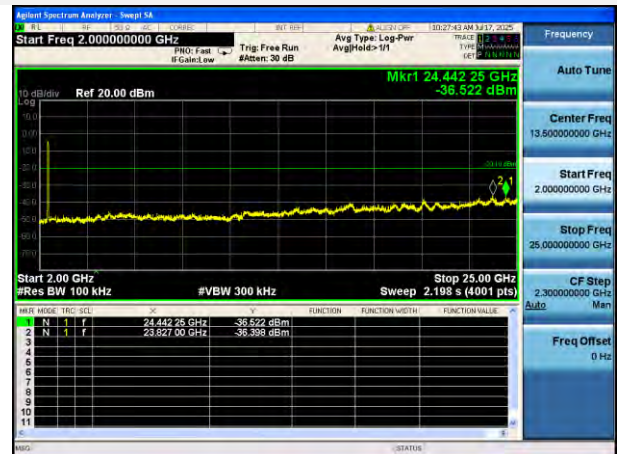
802.11n-20 MHz HIGH CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



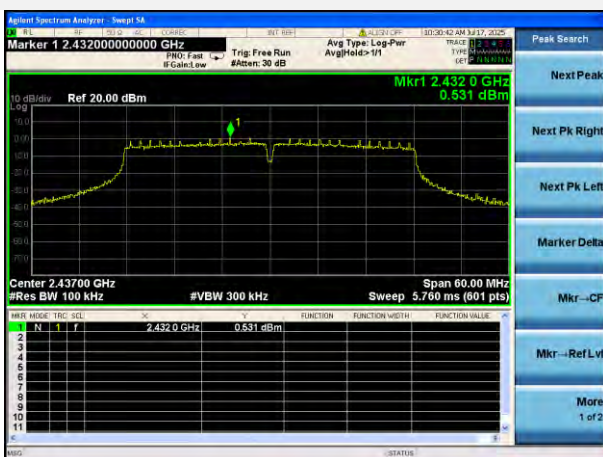
802.11n-20 MHz HIGH CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



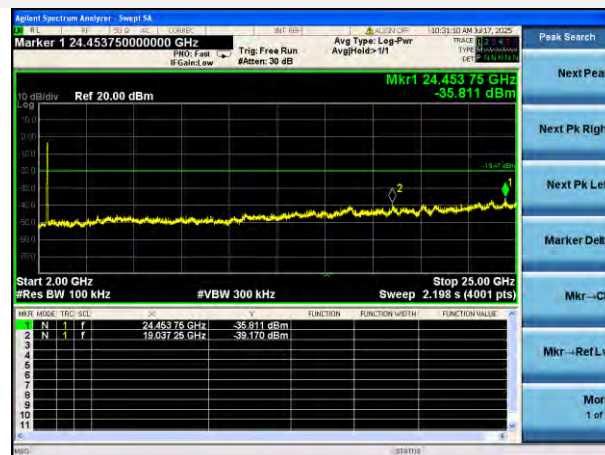
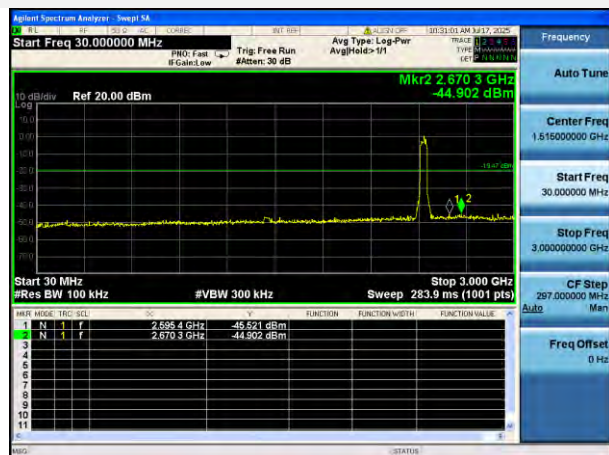
802.11n-40 MHz LOW CHANNEL CARRIER LEVEL

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
2 GHz ~ 25 GHz



Ref 20.00 dBm

Marker 1 2.449500000000 GHz
-0.267 dBm

Center 2.45200 GHz
Res BW 100 kHz

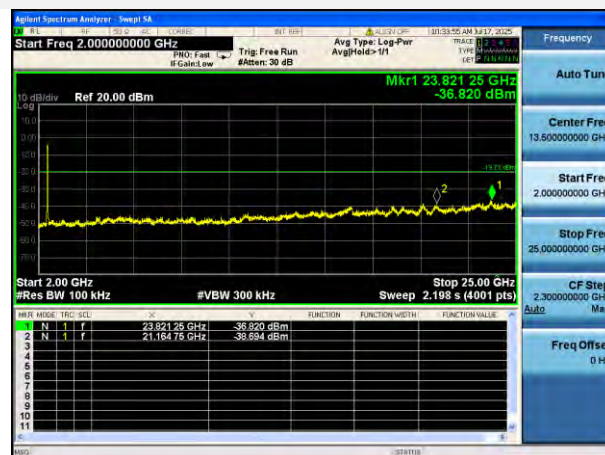
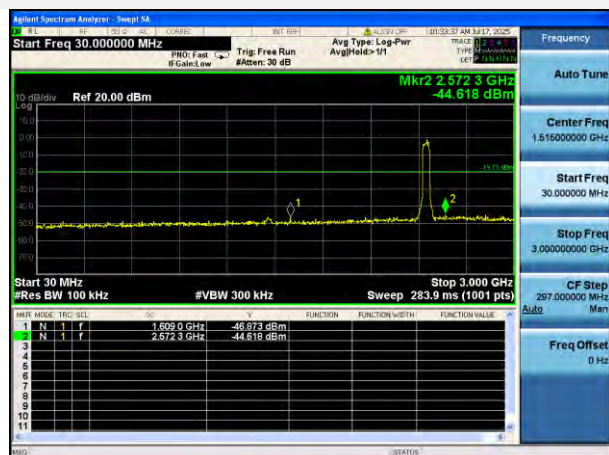
#VBW 300 kHz

Sweep

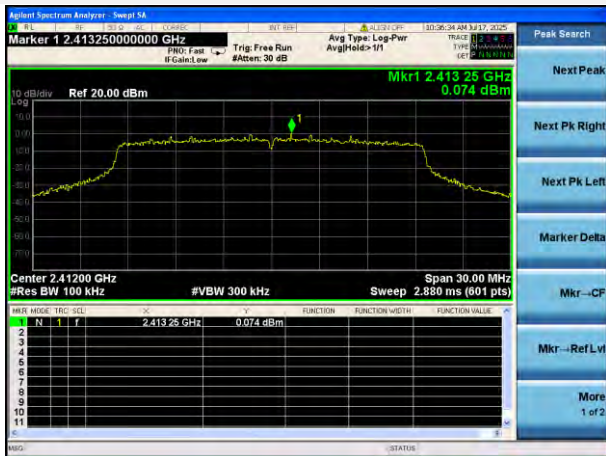
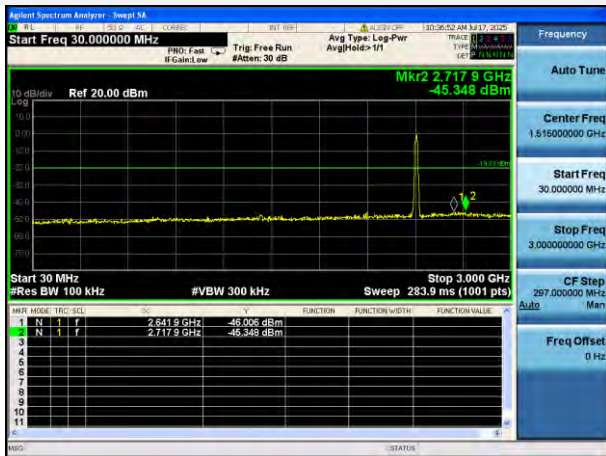
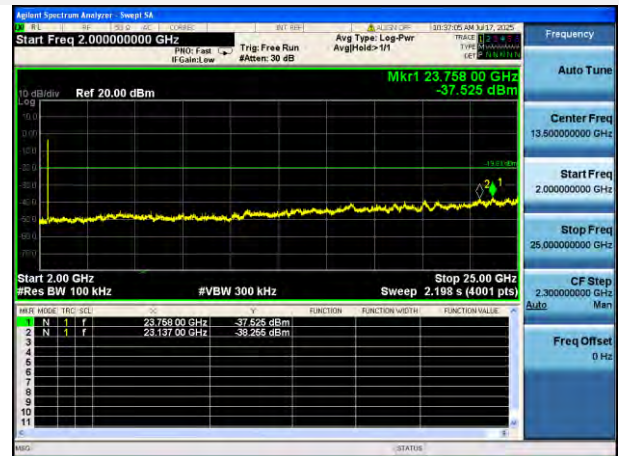
Span 60.00 MHz
5.760 MHz (601 pts)

MNR	FREQ	TRF	SCN	VAL	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	2.4495 GHz			-0.267 dBm			

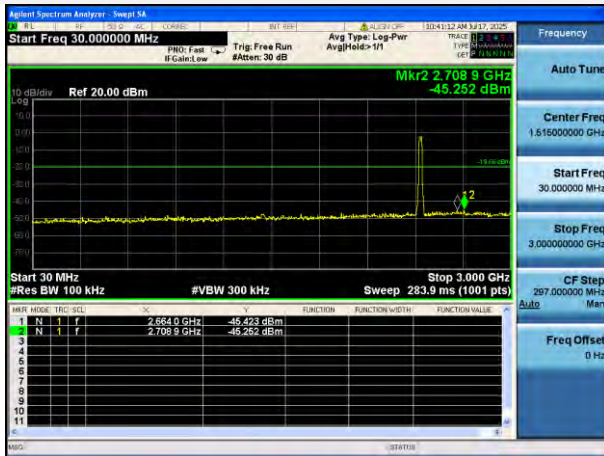
802.11n-40 MHz HIGH CHANNEL, SPURIOUS
2 GHz ~ 25 GHz



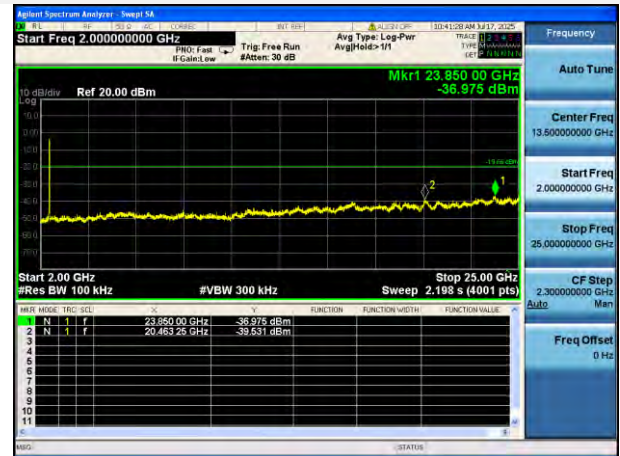
802.11ax-20 MHz(SU) LOW CHANNEL CARRIER LEVEL

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

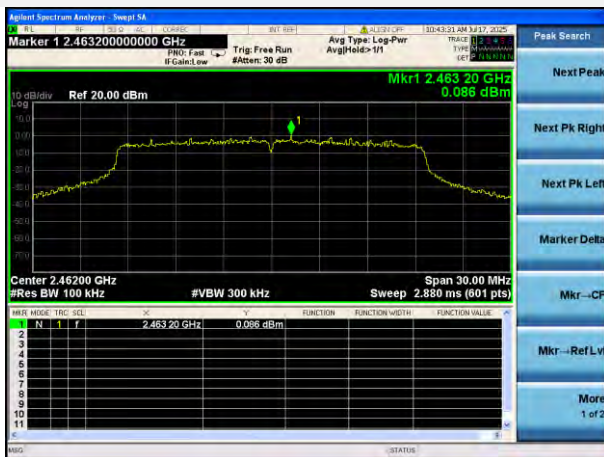
802.11ax-20 MHz(SU) MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



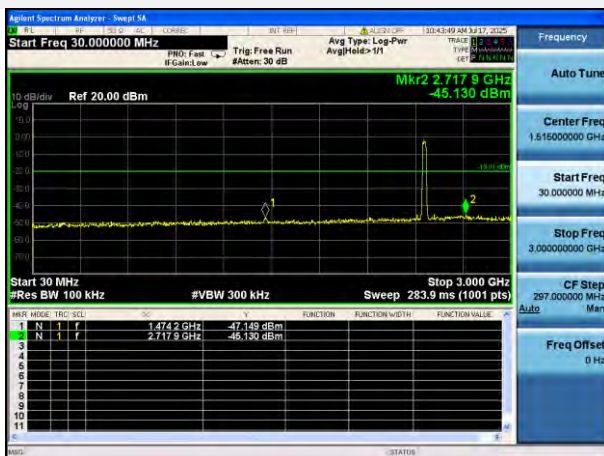
802.11ax-20 MHz(SU) MIDDLE CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



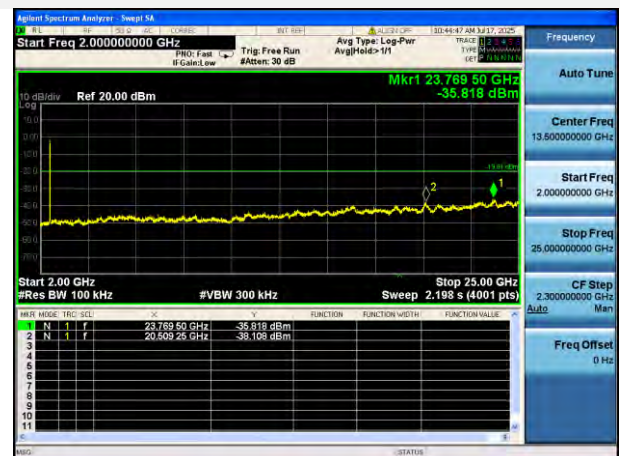
802.11ax-20 MHz(SU) HIGH CHANNEL CARRIER LEVEL



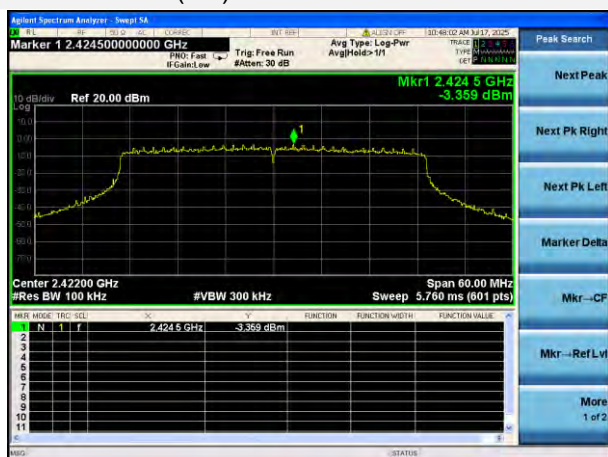
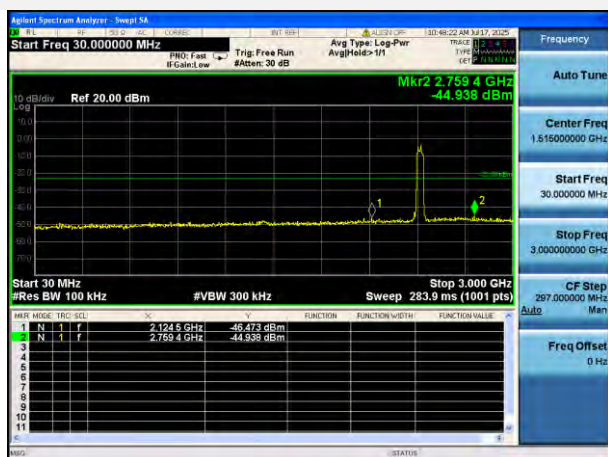
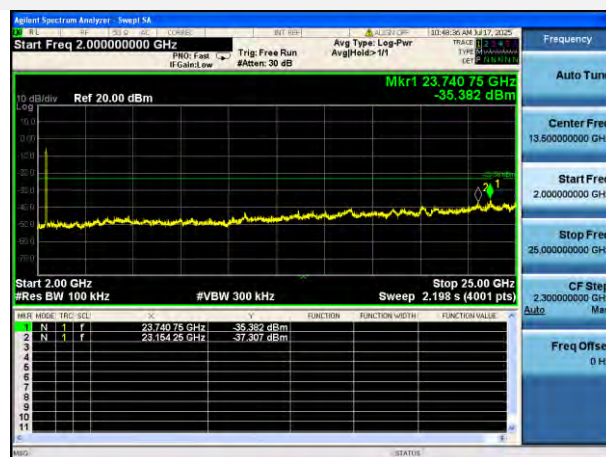
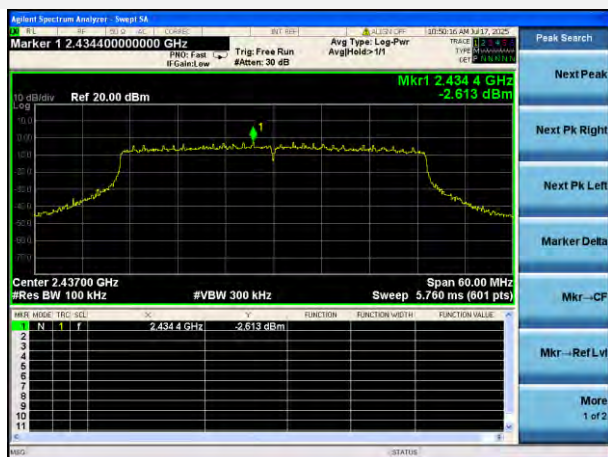
802.11ax-20 MHz(SU) HIGH CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



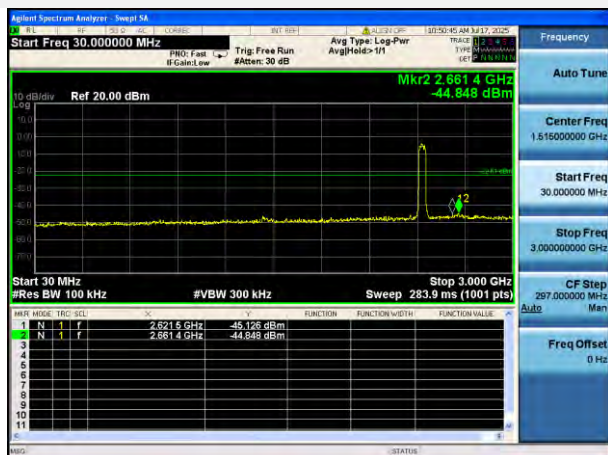
802.11ax-20 MHz(SU) HIGH CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



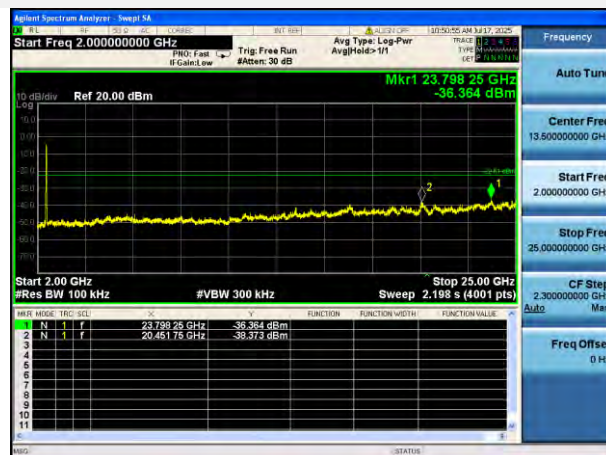
802.11ax-40 MHz(SU) LOW CHANNEL CARRIER LEVEL

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

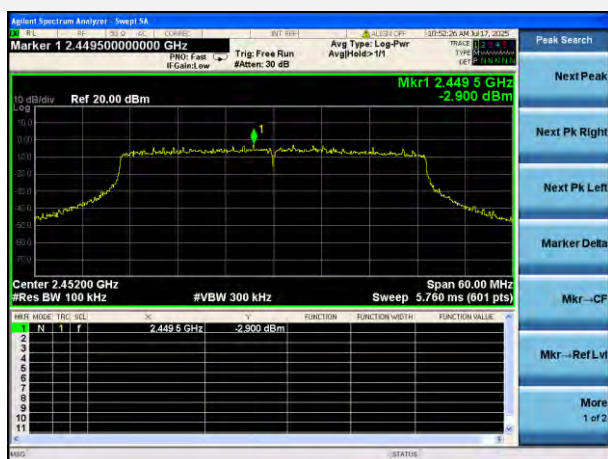
802.11ax-40 MHz(SU) MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



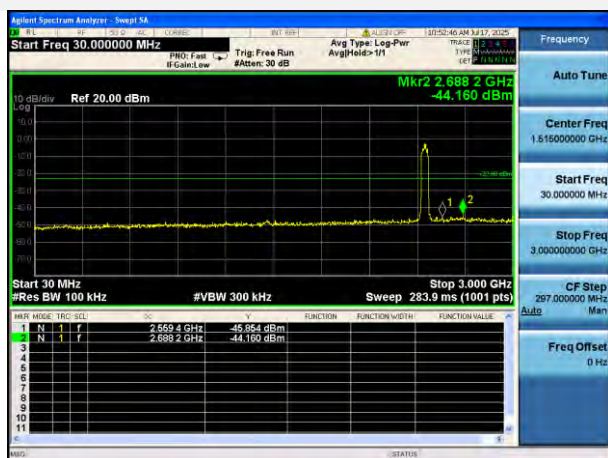
802.11ax-40 MHz(SU) MIDDLE CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



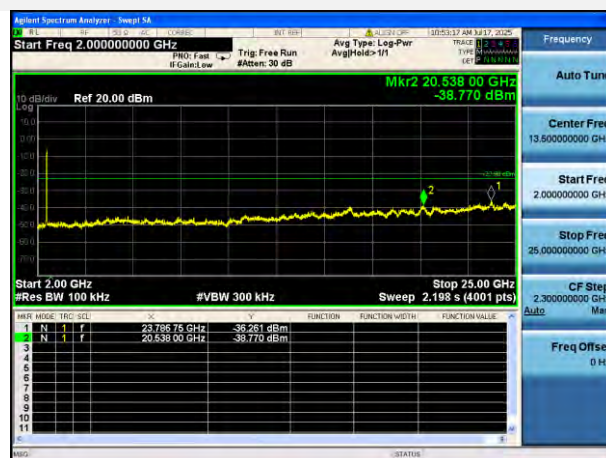
802.11ax-40 MHz(SU) HIGH CHANNEL CARRIER LEVEL



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)

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

Test Data

802.11b Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-43.83	3.65	-16.35	Pass
High Channel	-48.23	3.99	-16.01	Pass

802.11g Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-26.02	3.13	-16.87	Pass
High Channel	-44.77	3.37	-16.63	Pass

802.11n-20 MHz Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-24.96	2.16	-17.84	Pass
High Channel	-44.71	1.46	-18.54	Pass

802.11n-40 MHz Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-30.49	-0.10	-20.10	Pass
High Channel	-38.42	0.27	-19.73	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	-28.69	0.07	-19.93	Pass
High Channel	-46.58	0.09	-19.91	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	-31.89	-3.36	-23.36	Pass
High Channel	-42.11	-2.90	-22.90	Pass

Test Plots

802.11b LOW CHANNEL, CARRIER LEVEL



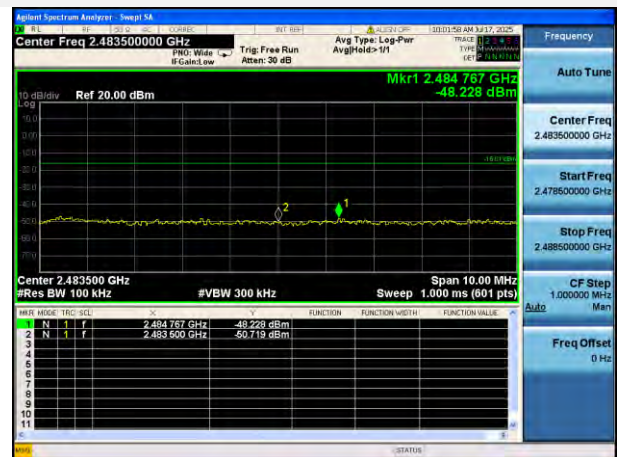
802.11b LOW CHANNEL, BAND EDGE



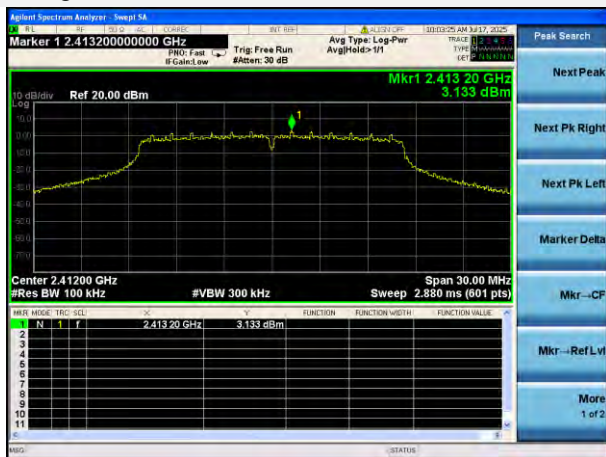
802.11b HIGH CHANNEL, CARRIER LEVEL



802.11b HIGH CHANNEL, BAND EDGE



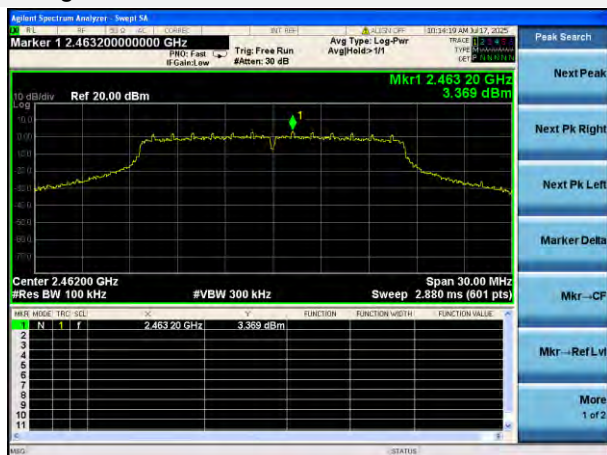
802.11g LOW CHANNEL, CARRIER LEVEL



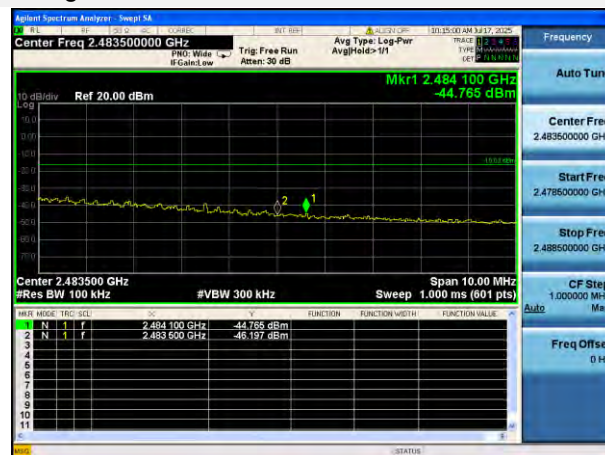
802.11g LOW CHANNEL, BAND EDGE



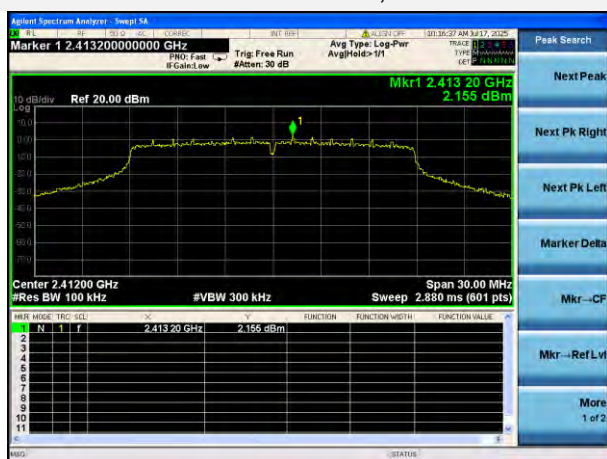
802.11g HIGH CHANNEL, CARRIER LEVEL



802.11g HIGH CHANNEL, BAND EDGE



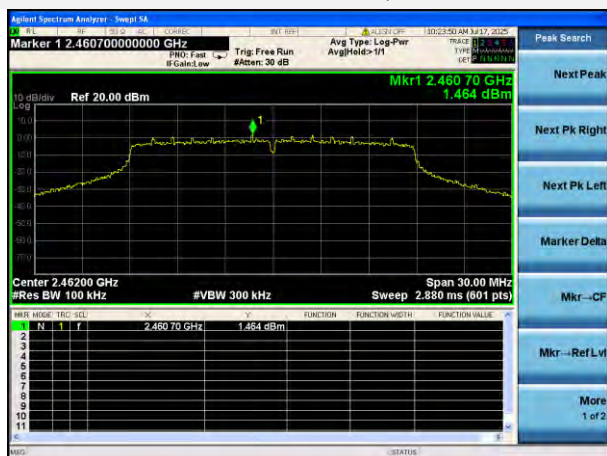
802.11n-20 MHz LOW CHANNEL, CARRIER LEVEL



802.11n-20 MHz LOW CHANNEL, BAND EDGE



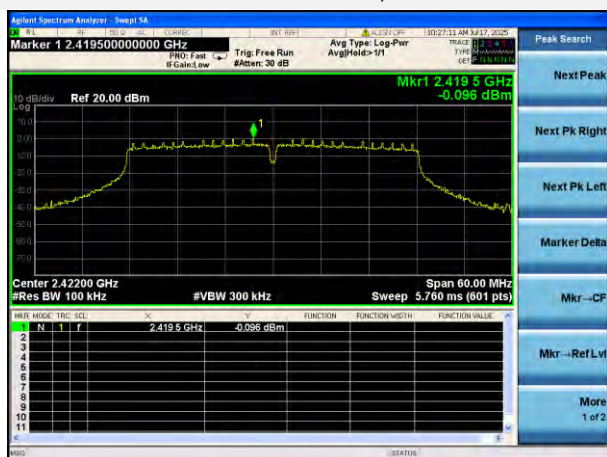
802.11n-20 MHz HIGH CHANNEL, CARRIER LEVEL



802.11n-20 MHz HIGH CHANNEL, BAND EDGE



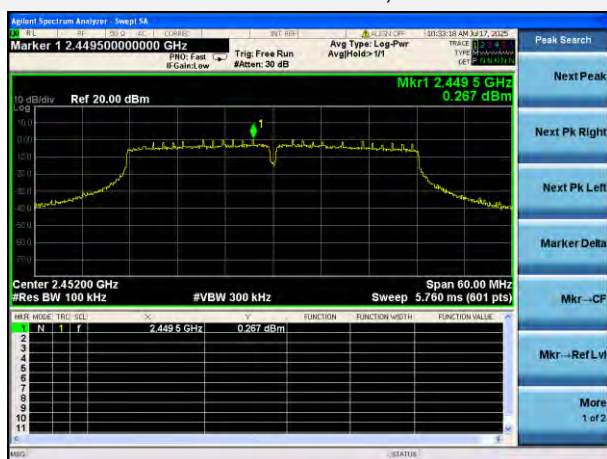
802.11n-40 MHz LOW CHANNEL, CARRIER LEVEL



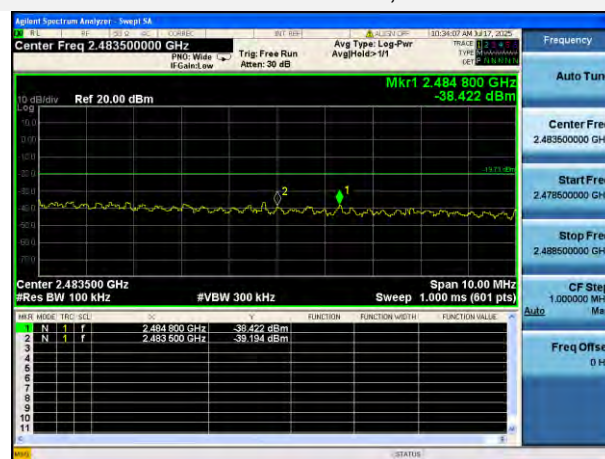
802.11n-40 MHz LOW CHANNEL, BAND EDGE



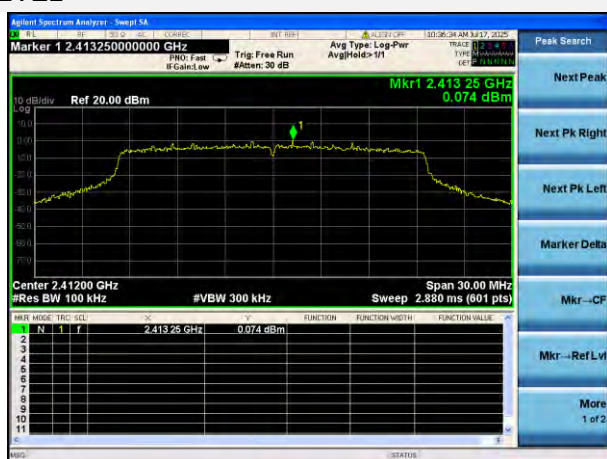
802.11n-40 MHz HIGH CHANNEL, CARRIER LEVEL



802.11n-40 MHz HIGH CHANNEL, BAND EDGE



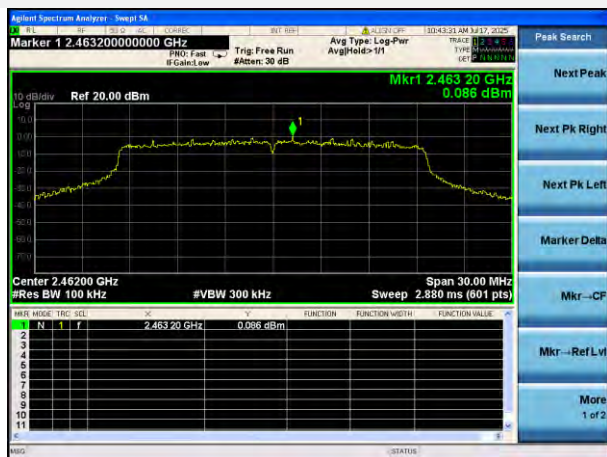
802.11ax-20 MHz(SU) LOW CHANNEL, CARRIER LEVEL



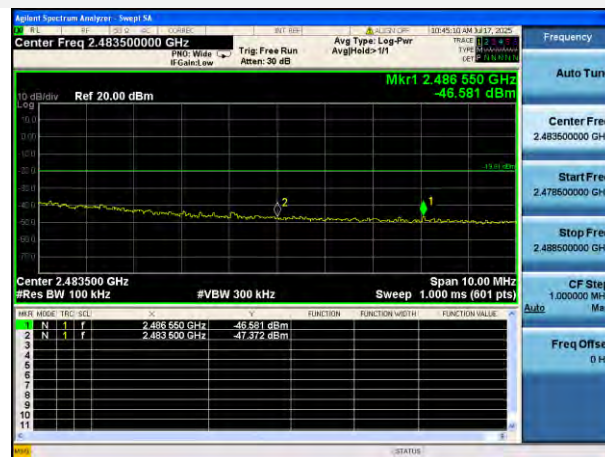
802.11ax-20 MHz(SU) LOW CHANNEL, BAND EDGE



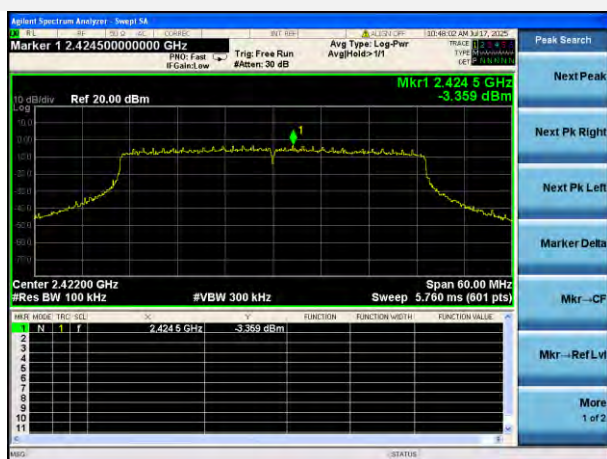
802.11ax-20 MHz(SU) HIGH CHANNEL, CARRIER LEVEL



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



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



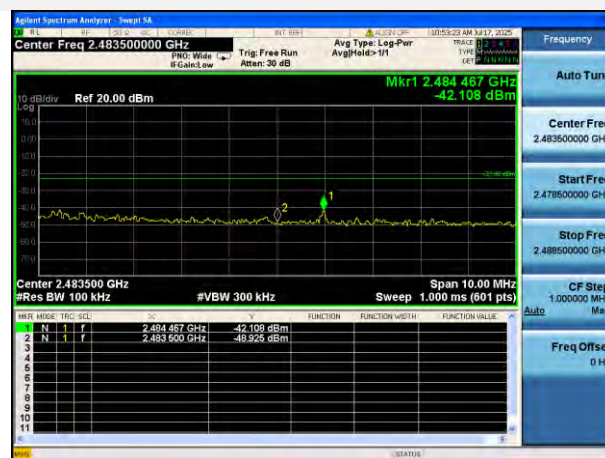
802.11ax-40 MHz(SU) LOW CHANNEL, BAND EDGE



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.

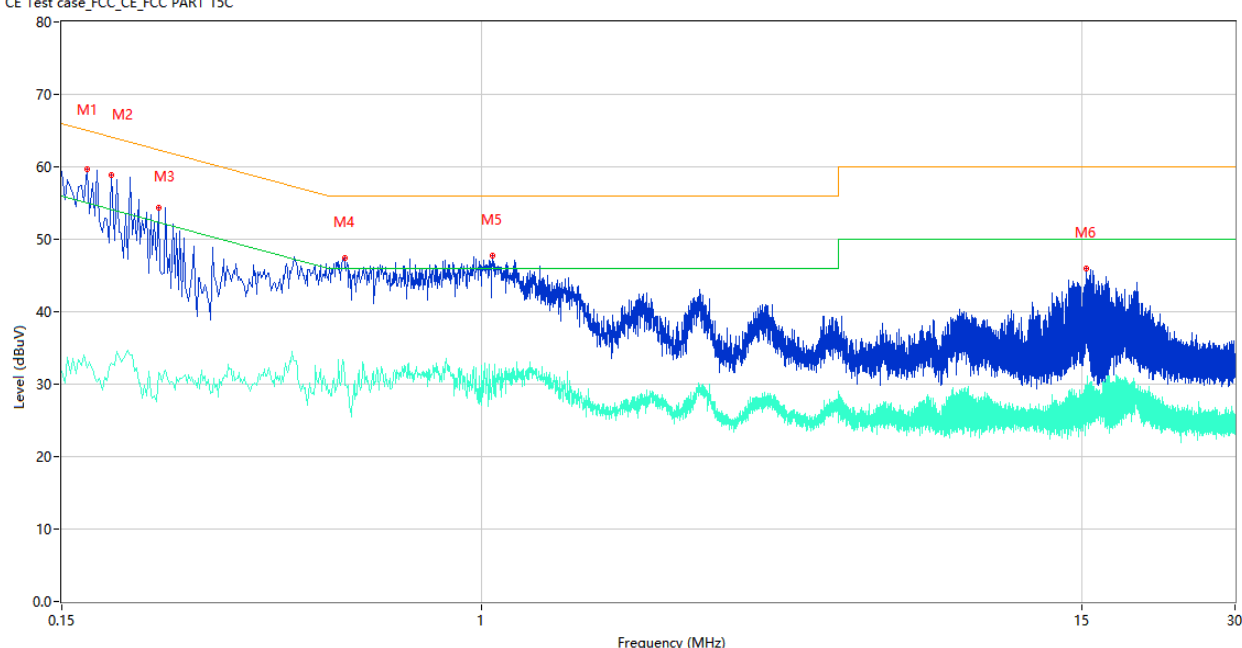
Note²: Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 60 Hz and 240 VAC, 50 Hz) for which the device is capable of operation. So, The configuration 120 VAC, 60 Hz and 240 VAC, 50 Hz were tested respectively, but only the worst configuration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

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

Test Data and Plots

PHASE L

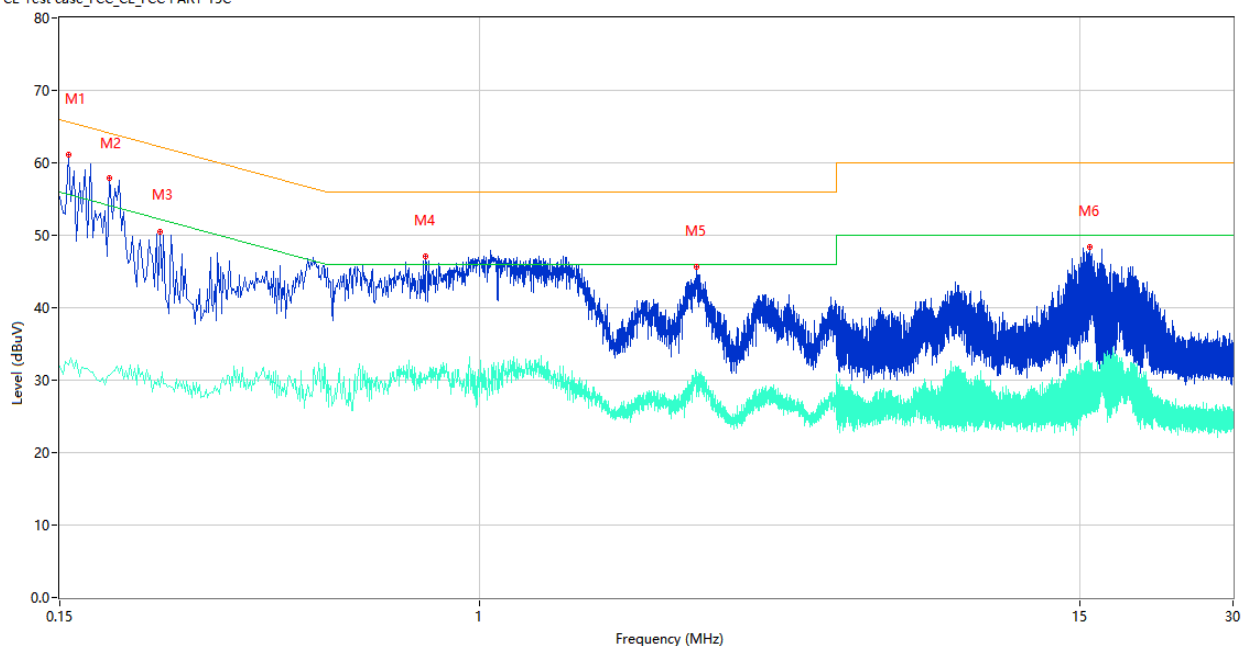
CE Test case_FCC_CE_FCC PART 15C



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.168	59.62	9.85	65.06	5.44	Peak	L	Pass
1**	0.168	32.18	9.85	55.06	22.88	AV	L	Pass
2	0.188	58.81	9.84	64.12	5.31	Peak	L	Pass
2**	0.188	32.98	9.84	54.12	21.14	AV	L	Pass
3	0.232	54.38	9.83	62.38	8.00	Peak	L	Pass
3**	0.232	31.63	9.83	52.38	20.75	AV	L	Pass
4	0.538	47.50	10.08	56.00	8.50	Peak	L	Pass
4**	0.538	30.36	10.08	46.00	15.64	AV	L	Pass
5	1.050	47.71	10.23	56.00	8.29	Peak	L	Pass
5**	1.050	31.77	10.23	46.00	14.23	AV	L	Pass
6	15.328	45.93	10.72	60.00	14.07	Peak	L	Pass
6**	15.328	29.47	10.72	50.00	20.53	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	0.156	61.08	9.86	65.67	4.59	Peak	N	Pass
1**	0.156	32.17	9.86	55.67	23.50	AV	N	Pass
2	0.188	57.87	9.84	64.12	6.25	Peak	N	Pass
2**	0.188	30.59	9.84	54.12	23.53	AV	N	Pass
3	0.236	50.48	9.83	62.24	11.76	Peak	N	Pass
3**	0.236	29.08	9.83	52.24	23.16	AV	N	Pass
4	0.784	47.06	10.48	56.00	8.94	Peak	N	Pass
4**	0.784	29.53	10.48	46.00	16.47	AV	N	Pass
5	2.666	45.71	10.20	56.00	10.29	Peak	N	Pass
5**	2.666	29.55	10.20	46.00	16.45	AV	N	Pass
6	15.724	48.33	10.74	60.00	11.67	Peak	N	Pass
6**	15.724	31.60	10.74	50.00	18.40	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 C63.10-2020, 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.

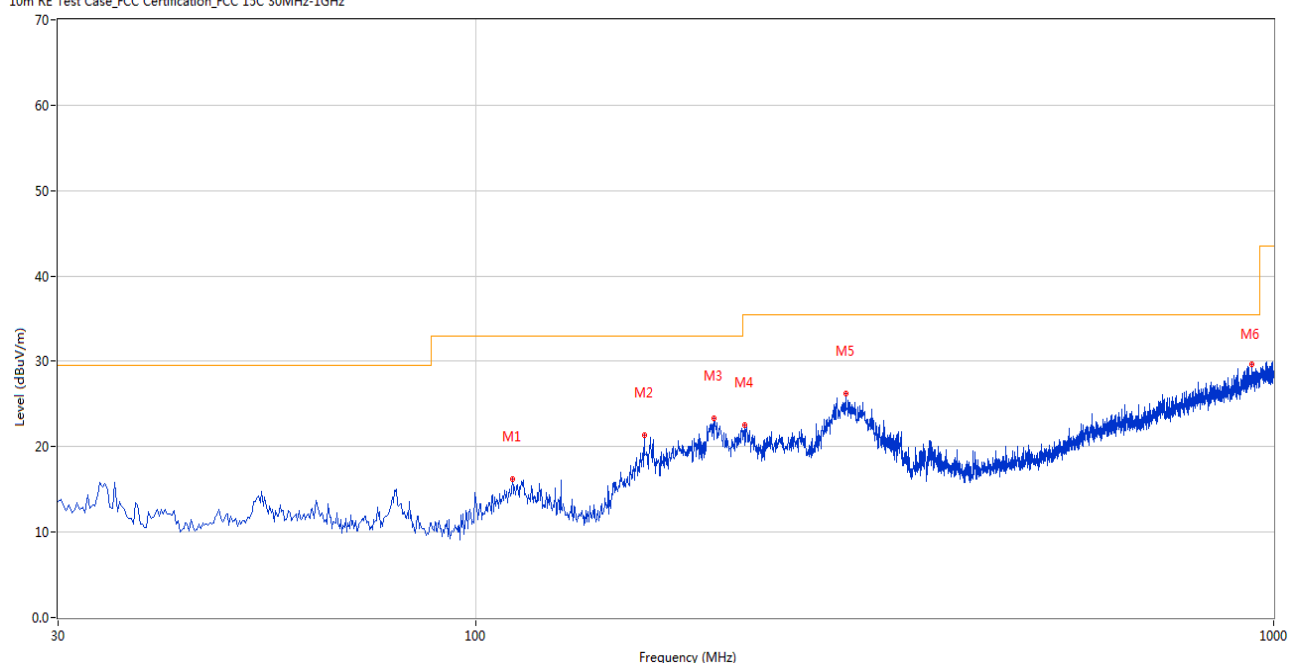
Note³: The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.

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

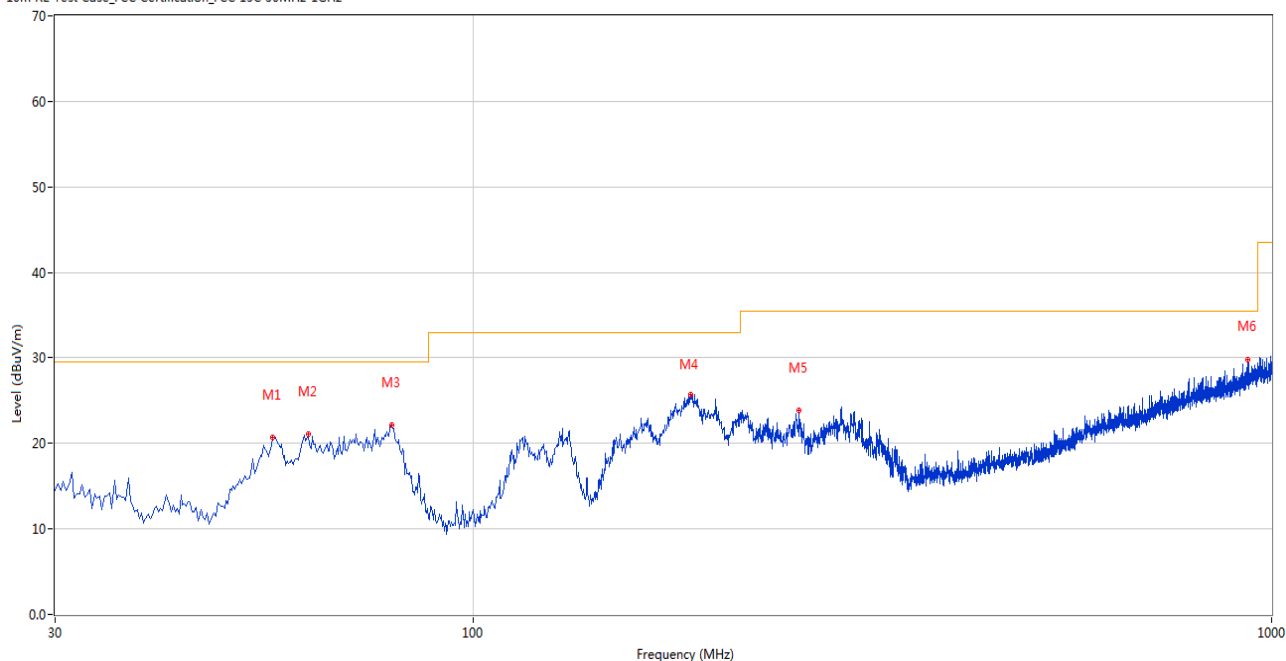
10m RE Test Case_FCC Certification_FCC 15C 30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	111.217	16.19	-28.88	33.0	16.81	Peak	117.00	300	Horizontal	Pass
2	162.857	21.42	-26.25	33.0	11.58	Peak	276.00	400	Horizontal	Pass
3	199.223	23.39	-29.18	33.0	9.61	Peak	264.00	400	Horizontal	Pass
4	217.406	22.59	-29.19	35.5	12.91	Peak	253.00	400	Horizontal	Pass
5	291.107	26.18	-25.67	35.5	9.32	Peak	248.00	400	Horizontal	Pass
6	938.663	29.70	-9.76	35.5	5.80	Peak	161.00	400	Horizontal	Pass

30 MHz to 1 GHz, ANT V

10m RE Test Case_FCC Certification_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	56.183	20.74	-27.17	29.5	8.76	Peak	360.00	300	Vertical	Pass
2	62.244	21.13	-27.66	29.5	8.37	Peak	243.00	100	Vertical	Pass
3	79.215	22.18	-29.95	29.5	7.32	Peak	150.00	300	Vertical	Pass
4	187.586	25.75	-28.45	33.0	7.25	Peak	199.00	100	Vertical	Pass
5	255.954	23.83	-27.12	35.5	11.67	Peak	221.00	100	Vertical	Pass
6	932.602	29.78	-9.86	35.5	5.72	Peak	0.00	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.

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	1327.870	42.49	74.0	31.51	Peak	87.00	200	Horizontal	Pass
1**	1327.870	34.74	54.0	19.26	AV	87.00	200	Horizontal	Pass
2	3000.285	53.02	74.0	20.98	Peak	51.00	400	Horizontal	Pass
2**	3000.285	44.29	54.0	9.71	AV	51.00	400	Horizontal	Pass
3	4938.084	53.15	74.0	20.85	Peak	343.00	200	Horizontal	Pass
3**	4938.084	43.64	54.0	10.36	AV	343.00	200	Horizontal	Pass
4	6803.010	55.70	74.0	18.30	Peak	247.00	400	Horizontal	Pass
4**	6803.010	42.52	54.0	11.48	AV	247.00	400	Horizontal	Pass
5	13412.384	56.80	74.0	17.20	Peak	19.00	300	Horizontal	Pass
5**	13412.384	48.70	54.0	5.30	AV	19.00	300	Horizontal	Pass
6	17425.746	58.89	74.0	15.11	Peak	257.00	400	Horizontal	Pass
6**	17425.746	47.30	54.0	6.70	AV	257.00	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	1331.559	42.40	74.0	31.60	Peak	325.00	400	Vertical	Pass
1**	1331.559	39.00	54.0	15.00	AV	325.00	400	Vertical	Pass
2	2985.455	49.86	74.0	24.14	Peak	155.00	100	Vertical	Pass
2**	2985.455	39.55	54.0	14.45	AV	155.00	100	Vertical	Pass
3	4851.490	50.03	74.0	23.97	Peak	177.00	200	Vertical	Pass
3**	4851.490	42.82	54.0	11.18	AV	177.00	200	Vertical	Pass
4	6609.979	52.17	74.0	21.83	Peak	223.00	400	Vertical	Pass
4**	6609.979	42.68	54.0	11.32	AV	223.00	400	Vertical	Pass
5	13432.274	56.49	74.0	17.51	Peak	93.00	300	Vertical	Pass
5**	13432.274	48.94	54.0	5.06	AV	93.00	300	Vertical	Pass
6	17420.227	60.10	74.0	13.90	Peak	47.00	300	Vertical	Pass
6**	17420.227	46.93	54.0	7.07	AV	47.00	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	1327.878	42.33	74.0	31.67	Peak	233.00	100	Horizontal	Pass
1**	1327.878	33.82	54.0	20.18	AV	233.00	100	Horizontal	Pass
2	2994.506	49.14	74.0	24.86	Peak	285.00	100	Horizontal	Pass
2**	2994.506	41.74	54.0	12.26	AV	285.00	100	Horizontal	Pass
3	4933.869	51.94	74.0	22.06	Peak	190.00	200	Horizontal	Pass
3**	4933.869	41.71	54.0	12.29	AV	190.00	200	Horizontal	Pass
4	6805.465	56.09	74.0	17.91	Peak	109.00	100	Horizontal	Pass
4**	6805.465	46.18	54.0	7.82	AV	109.00	100	Horizontal	Pass
5	13412.736	55.73	74.0	18.27	Peak	71.00	300	Horizontal	Pass
5**	13412.736	47.02	54.0	6.98	AV	71.00	300	Horizontal	Pass
6	17422.936	53.62	74.0	20.38	Peak	55.00	300	Horizontal	Pass
6**	17422.936	46.43	54.0	7.57	AV	55.00	300	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	1330.078	47.64	74.0	26.36	Peak	341.00	100	Vertical	Pass
1**	1330.078	37.00	54.0	17.00	AV	341.00	100	Vertical	Pass
2	2979.738	52.76	74.0	21.24	Peak	355.00	100	Vertical	Pass
2**	2979.738	40.88	54.0	13.12	AV	355.00	100	Vertical	Pass
3	4851.171	49.27	74.0	24.73	Peak	195.00	200	Vertical	Pass
3**	4851.171	37.78	54.0	16.22	AV	195.00	200	Vertical	Pass
4	6606.358	52.33	74.0	21.67	Peak	207.00	400	Vertical	Pass
4**	6606.358	44.14	54.0	9.86	AV	207.00	400	Vertical	Pass
5	13434.072	56.49	74.0	17.51	Peak	158.00	200	Vertical	Pass
5**	13434.072	44.09	54.0	9.91	AV	158.00	200	Vertical	Pass
6	17418.316	55.80	74.0	18.20	Peak	247.00	300	Vertical	Pass
6**	17418.316	45.00	54.0	9.00	AV	247.00	300	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	1326.609	46.24	74.0	27.76	Peak	72.00	200	Horizontal	Pass
1**	1326.609	39.04	54.0	14.96	AV	72.00	200	Horizontal	Pass
2	2996.110	47.54	74.0	26.46	Peak	214.00	100	Horizontal	Pass
2**	2996.110	40.31	54.0	13.69	AV	214.00	100	Horizontal	Pass
3	4932.127	51.00	74.0	23.00	Peak	243.00	200	Horizontal	Pass
3**	4932.127	44.42	54.0	9.58	AV	243.00	200	Horizontal	Pass
4	6805.115	51.56	74.0	22.44	Peak	32.00	300	Horizontal	Pass
4**	6805.115	44.60	54.0	9.40	AV	32.00	300	Horizontal	Pass
5	13413.787	57.56	74.0	16.44	Peak	21.00	200	Horizontal	Pass
5**	13413.787	46.50	54.0	7.50	AV	21.00	200	Horizontal	Pass
6	17429.250	54.20	74.0	19.80	Peak	347.00	200	Horizontal	Pass
6**	17429.250	44.52	54.0	9.48	AV	347.00	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	1336.302	45.86	74.0	28.14	Peak	241.00	300	Vertical	Pass
1**	1336.302	39.04	54.0	14.96	AV	241.00	300	Vertical	Pass
2	2978.983	49.91	74.0	24.09	Peak	150.00	300	Vertical	Pass
2**	2978.983	42.09	54.0	11.91	AV	150.00	300	Vertical	Pass
3	4854.794	47.56	74.0	26.44	Peak	230.00	200	Vertical	Pass
3**	4854.794	40.21	54.0	13.79	AV	230.00	200	Vertical	Pass
4	6605.946	51.41	74.0	22.59	Peak	61.00	200	Vertical	Pass
4**	6605.946	46.59	54.0	7.41	AV	61.00	200	Vertical	Pass
5	13432.343	56.06	74.0	17.94	Peak	357.00	200	Vertical	Pass
5**	13432.343	47.77	54.0	6.23	AV	357.00	200	Vertical	Pass
6	17413.420	56.87	74.0	17.13	Peak	292.00	300	Vertical	Pass
6**	17413.420	49.90	54.0	4.10	AV	292.00	300	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	1330.706	44.70	74.0	29.30	Peak	170.00	400	Horizontal	Pass
1**	1330.706	34.22	54.0	19.78	AV	170.00	400	Horizontal	Pass
2	2996.507	52.96	74.0	21.04	Peak	315.00	200	Horizontal	Pass
2**	2996.507	38.77	54.0	15.23	AV	315.00	200	Horizontal	Pass
3	4933.984	49.68	74.0	24.32	Peak	59.00	200	Horizontal	Pass
3**	4933.984	39.54	54.0	14.46	AV	59.00	200	Horizontal	Pass
4	6810.221	55.11	74.0	18.89	Peak	279.00	200	Horizontal	Pass
4**	6810.221	42.88	54.0	11.12	AV	279.00	200	Horizontal	Pass
5	13409.750	56.61	74.0	17.39	Peak	127.00	300	Horizontal	Pass
5**	13409.750	44.70	54.0	9.30	AV	127.00	300	Horizontal	Pass
6	17428.250	58.61	74.0	15.39	Peak	282.00	300	Horizontal	Pass
6**	17428.250	46.12	54.0	7.88	AV	282.00	300	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	1329.008	45.68	74.0	28.32	Peak	355.00	200	Vertical	Pass
1**	1329.008	38.06	54.0	15.94	AV	355.00	200	Vertical	Pass
2	2979.840	52.30	74.0	21.70	Peak	231.00	200	Vertical	Pass
2**	2979.840	40.79	54.0	13.21	AV	231.00	200	Vertical	Pass
3	4852.221	50.53	74.0	23.47	Peak	7.00	200	Vertical	Pass
3**	4852.221	38.94	54.0	15.06	AV	7.00	200	Vertical	Pass
4	6605.710	54.77	74.0	19.23	Peak	39.00	100	Vertical	Pass
4**	6605.710	46.61	54.0	7.39	AV	39.00	100	Vertical	Pass
5	13435.017	55.09	74.0	18.91	Peak	287.00	100	Vertical	Pass
5**	13435.017	43.40	54.0	10.60	AV	287.00	100	Vertical	Pass
6	17417.015	58.87	74.0	15.13	Peak	240.00	200	Vertical	Pass
6**	17417.015	45.44	54.0	8.56	AV	240.00	200	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	1331.788	43.31	74.0	30.69	Peak	163.00	200	Horizontal	Pass
1**	1331.788	36.36	54.0	17.64	AV	163.00	200	Horizontal	Pass
2	2994.332	47.88	74.0	26.12	Peak	64.00	100	Horizontal	Pass
2**	2994.332	40.74	54.0	13.26	AV	64.00	100	Horizontal	Pass
3	4931.914	51.05	74.0	22.95	Peak	311.00	200	Horizontal	Pass
3**	4931.914	43.32	54.0	10.68	AV	311.00	200	Horizontal	Pass
4	6810.737	53.30	74.0	20.70	Peak	200.00	400	Horizontal	Pass
4**	6810.737	44.55	54.0	9.45	AV	200.00	400	Horizontal	Pass
5	13409.022	53.16	74.0	20.84	Peak	280.00	100	Horizontal	Pass
5**	13409.022	48.84	54.0	5.16	AV	280.00	100	Horizontal	Pass
6	17425.516	56.41	74.0	17.59	Peak	95.00	200	Horizontal	Pass
6**	17425.516	46.35	54.0	7.65	AV	95.00	200	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	1336.740	42.52	74.0	31.48	Peak	325.00	300	Vertical	Pass
1**	1336.740	38.89	54.0	15.11	AV	325.00	300	Vertical	Pass
2	2979.264	49.96	74.0	24.04	Peak	82.00	100	Vertical	Pass
2**	2979.264	44.45	54.0	9.55	AV	82.00	100	Vertical	Pass
3	4851.049	52.36	74.0	21.64	Peak	242.00	200	Vertical	Pass
3**	4851.049	38.29	54.0	15.71	AV	242.00	200	Vertical	Pass
4	6605.923	56.48	74.0	17.52	Peak	64.00	300	Vertical	Pass
4**	6605.923	45.55	54.0	8.45	AV	64.00	300	Vertical	Pass
5	13432.169	58.28	74.0	15.72	Peak	216.00	100	Vertical	Pass
5**	13432.169	48.94	54.0	5.06	AV	216.00	100	Vertical	Pass
6	17414.072	58.47	74.0	15.53	Peak	56.00	400	Vertical	Pass
6**	17414.072	46.83	54.0	7.17	AV	56.00	400	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	1331.034	44.01	74.0	29.99	Peak	86.00	100	Horizontal	Pass
1**	1331.034	34.59	54.0	19.41	AV	86.00	100	Horizontal	Pass
2	2995.530	52.80	74.0	21.20	Peak	139.00	100	Horizontal	Pass
2**	2995.530	39.72	54.0	14.28	AV	139.00	100	Horizontal	Pass
3	4936.541	48.74	74.0	25.26	Peak	285.00	200	Horizontal	Pass
3**	4936.541	39.88	54.0	14.12	AV	285.00	200	Horizontal	Pass
4	6810.636	55.98	74.0	18.02	Peak	348.00	100	Horizontal	Pass
4**	6810.636	45.16	54.0	8.84	AV	348.00	100	Horizontal	Pass
5	13409.830	58.47	74.0	15.53	Peak	210.00	300	Horizontal	Pass
5**	13409.830	48.46	54.0	5.54	AV	210.00	300	Horizontal	Pass
6	17427.199	57.49	74.0	16.51	Peak	320.00	100	Horizontal	Pass
6**	17427.199	49.27	54.0	4.73	AV	320.00	100	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	1329.367	44.89	74.0	29.11	Peak	20.00	300	Vertical	Pass
1**	1329.367	39.23	54.0	14.77	AV	20.00	300	Vertical	Pass
2	2980.353	52.94	74.0	21.06	Peak	255.00	400	Vertical	Pass
2**	2980.353	39.89	54.0	14.11	AV	255.00	400	Vertical	Pass
3	4855.564	48.13	74.0	25.87	Peak	254.00	200	Vertical	Pass
3**	4855.564	43.06	54.0	10.94	AV	254.00	200	Vertical	Pass
4	6608.224	54.13	74.0	19.87	Peak	176.00	200	Vertical	Pass
4**	6608.224	46.89	54.0	7.11	AV	176.00	200	Vertical	Pass
5	13436.588	54.75	74.0	19.25	Peak	163.00	100	Vertical	Pass
5**	13436.588	46.08	54.0	7.92	AV	163.00	100	Vertical	Pass
6	17419.796	57.71	74.0	16.29	Peak	135.00	100	Vertical	Pass
6**	17419.796	47.39	54.0	6.61	AV	135.00	100	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	1326.973	41.63	74.0	32.37	Peak	150.00	100	Horizontal	Pass
1**	1326.973	35.80	54.0	18.20	AV	150.00	100	Horizontal	Pass
2	2999.830	52.32	74.0	21.68	Peak	107.00	300	Horizontal	Pass
2**	2999.830	40.91	54.0	13.09	AV	107.00	300	Horizontal	Pass
3	4938.329	53.47	74.0	20.53	Peak	201.00	200	Horizontal	Pass
3**	4938.329	43.16	54.0	10.84	AV	201.00	200	Horizontal	Pass
4	6803.855	56.07	74.0	17.93	Peak	59.00	400	Horizontal	Pass
4**	6803.855	45.88	54.0	8.12	AV	59.00	400	Horizontal	Pass
5	13411.444	57.16	74.0	16.84	Peak	294.00	400	Horizontal	Pass
5**	13411.444	46.11	54.0	7.89	AV	294.00	400	Horizontal	Pass
6	17422.537	58.11	74.0	15.89	Peak	10.00	300	Horizontal	Pass
6**	17422.537	49.15	54.0	4.85	AV	10.00	300	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	1329.963	45.68	74.0	28.32	Peak	73.00	200	Vertical	Pass
1**	1329.963	38.04	54.0	15.96	AV	73.00	200	Vertical	Pass
2	2979.638	50.02	74.0	23.98	Peak	279.00	100	Vertical	Pass
2**	2979.638	40.15	54.0	13.85	AV	279.00	100	Vertical	Pass
3	4855.241	51.28	74.0	22.72	Peak	227.00	200	Vertical	Pass
3**	4855.241	39.24	54.0	14.76	AV	227.00	200	Vertical	Pass
4	6603.749	51.97	74.0	22.03	Peak	201.00	200	Vertical	Pass
4**	6603.749	44.89	54.0	9.11	AV	201.00	200	Vertical	Pass
5	13432.368	53.17	74.0	20.83	Peak	82.00	400	Vertical	Pass
5**	13432.368	43.81	54.0	10.19	AV	82.00	400	Vertical	Pass
6	17416.073	59.78	74.0	14.22	Peak	72.00	400	Vertical	Pass
6**	17416.073	44.45	54.0	9.55	AV	72.00	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	1329.985	45.37	74.0	28.63	Peak	71.00	400	Horizontal	Pass
1**	1329.985	38.80	54.0	15.20	AV	71.00	400	Horizontal	Pass
2	2994.534	52.08	74.0	21.92	Peak	12.00	400	Horizontal	Pass
2**	2994.534	42.08	54.0	11.92	AV	12.00	400	Horizontal	Pass
3	4935.919	51.90	74.0	22.10	Peak	358.00	200	Horizontal	Pass
3**	4935.919	41.38	54.0	12.62	AV	358.00	200	Horizontal	Pass
4	6806.881	51.52	74.0	22.48	Peak	122.00	400	Horizontal	Pass
4**	6806.881	43.98	54.0	10.02	AV	122.00	400	Horizontal	Pass
5	13410.583	57.43	74.0	16.57	Peak	274.00	200	Horizontal	Pass
5**	13410.583	46.83	54.0	7.17	AV	274.00	200	Horizontal	Pass
6	17429.628	56.35	74.0	17.65	Peak	232.00	200	Horizontal	Pass
6**	17429.628	44.98	54.0	9.02	AV	232.00	200	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	1330.398	46.62	74.0	27.38	Peak	223.00	400	Vertical	Pass
1**	1330.398	38.54	54.0	15.46	AV	223.00	400	Vertical	Pass
2	2985.130	53.31	74.0	20.69	Peak	157.00	200	Vertical	Pass
2**	2985.130	40.06	54.0	13.94	AV	157.00	200	Vertical	Pass
3	4853.422	51.79	74.0	22.21	Peak	280.00	200	Vertical	Pass
3**	4853.422	39.92	54.0	14.08	AV	280.00	200	Vertical	Pass
4	6606.744	51.61	74.0	22.39	Peak	72.00	100	Vertical	Pass
4**	6606.744	46.53	54.0	7.47	AV	72.00	100	Vertical	Pass
5	13435.020	55.49	74.0	18.51	Peak	313.00	200	Vertical	Pass
5**	13435.020	45.04	54.0	8.96	AV	313.00	200	Vertical	Pass
6	17416.072	57.15	74.0	16.85	Peak	208.00	400	Vertical	Pass
6**	17416.072	48.33	54.0	5.67	AV	208.00	400	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	1332.899	43.67	74.0	30.33	Peak	104.00	200	Horizontal	Pass
1**	1332.899	39.31	54.0	14.69	AV	104.00	200	Horizontal	Pass
2	2997.515	50.09	74.0	23.91	Peak	321.00	100	Horizontal	Pass
2**	2997.515	40.89	54.0	13.11	AV	321.00	100	Horizontal	Pass
3	4934.386	50.46	74.0	23.54	Peak	211.00	200	Horizontal	Pass
3**	4934.386	40.84	54.0	13.16	AV	211.00	200	Horizontal	Pass
4	6809.238	54.34	74.0	19.66	Peak	315.00	400	Horizontal	Pass
4**	6809.238	46.64	54.0	7.36	AV	315.00	400	Horizontal	Pass
5	13408.414	56.34	74.0	17.66	Peak	327.00	300	Horizontal	Pass
5**	13408.414	48.21	54.0	5.79	AV	327.00	300	Horizontal	Pass
6	17423.208	53.80	74.0	20.20	Peak	174.00	100	Horizontal	Pass
6**	17423.208	44.62	54.0	9.38	AV	174.00	100	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	1329.802	45.86	74.0	28.14	Peak	78.00	400	Vertical	Pass
1**	1329.802	35.84	54.0	18.16	AV	78.00	400	Vertical	Pass
2	2983.588	53.27	74.0	20.73	Peak	122.00	400	Vertical	Pass
2**	2983.588	41.81	54.0	12.19	AV	122.00	400	Vertical	Pass
3	4852.092	46.75	74.0	27.25	Peak	200.00	200	Vertical	Pass
3**	4852.092	38.53	54.0	15.47	AV	200.00	200	Vertical	Pass
4	6608.988	51.82	74.0	22.18	Peak	198.00	300	Vertical	Pass
4**	6608.988	42.94	54.0	11.06	AV	198.00	300	Vertical	Pass
5	13438.537	54.34	74.0	19.66	Peak	93.00	300	Vertical	Pass
5**	13438.537	45.71	54.0	8.29	AV	93.00	300	Vertical	Pass
6	17417.640	57.08	74.0	16.92	Peak	32.00	100	Vertical	Pass
6**	17417.640	45.94	54.0	8.06	AV	32.00	100	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	1330.076	44.43	74.0	29.57	Peak	317.00	100	Horizontal	Pass
1**	1330.076	35.06	54.0	18.94	AV	317.00	100	Horizontal	Pass
2	2998.381	49.48	74.0	24.52	Peak	55.00	100	Horizontal	Pass
2**	2998.381	41.70	54.0	12.30	AV	55.00	100	Horizontal	Pass
3	4935.696	53.31	74.0	20.69	Peak	204.00	200	Horizontal	Pass
3**	4935.696	43.32	54.0	10.68	AV	204.00	200	Horizontal	Pass
4	6805.872	54.66	74.0	19.34	Peak	186.00	200	Horizontal	Pass
4**	6805.872	47.05	54.0	6.95	AV	186.00	200	Horizontal	Pass
5	13410.092	56.65	74.0	17.35	Peak	135.00	200	Horizontal	Pass
5**	13410.092	47.74	54.0	6.26	AV	135.00	200	Horizontal	Pass
6	17424.977	53.19	74.0	20.81	Peak	69.00	200	Horizontal	Pass
6**	17424.977	45.49	54.0	8.51	AV	69.00	200	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	1330.590	47.26	74.0	26.74	Peak	36.00	200	Vertical	Pass
1**	1330.590	35.20	54.0	18.80	AV	36.00	200	Vertical	Pass
2	2983.028	52.01	74.0	21.99	Peak	353.00	400	Vertical	Pass
2**	2983.028	42.63	54.0	11.37	AV	353.00	400	Vertical	Pass
3	4853.216	51.88	74.0	22.12	Peak	35.00	200	Vertical	Pass
3**	4853.216	40.96	54.0	13.04	AV	35.00	200	Vertical	Pass
4	6606.454	57.09	74.0	16.91	Peak	260.00	400	Vertical	Pass
4**	6606.454	45.09	54.0	8.91	AV	260.00	400	Vertical	Pass
5	13432.143	57.59	74.0	16.41	Peak	213.00	200	Vertical	Pass
5**	13432.143	48.09	54.0	5.91	AV	213.00	200	Vertical	Pass
6	17417.706	55.26	74.0	18.74	Peak	33.00	400	Vertical	Pass
6**	17417.706	47.61	54.0	6.39	AV	33.00	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	1332.845	46.57	74.0	27.43	Peak	202.00	300	Horizontal	Pass
1**	1332.845	35.25	54.0	18.75	AV	202.00	300	Horizontal	Pass
2	3000.095	48.21	74.0	25.79	Peak	316.00	300	Horizontal	Pass
2**	3000.095	38.84	54.0	15.16	AV	316.00	300	Horizontal	Pass
3	4938.254	50.05	74.0	23.95	Peak	238.00	200	Horizontal	Pass
3**	4938.254	40.47	54.0	13.53	AV	238.00	200	Horizontal	Pass
4	6806.080	53.76	74.0	20.24	Peak	61.00	200	Horizontal	Pass
4**	6806.080	44.14	54.0	9.86	AV	61.00	200	Horizontal	Pass
5	13411.588	57.21	74.0	16.79	Peak	8.00	300	Horizontal	Pass
5**	13411.588	44.34	54.0	9.66	AV	8.00	300	Horizontal	Pass
6	17427.419	54.06	74.0	19.94	Peak	157.00	400	Horizontal	Pass
6**	17427.419	49.73	54.0	4.27	AV	157.00	400	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	1330.437	43.42	74.0	30.58	Peak	273.00	200	Vertical	Pass
1**	1330.437	37.48	54.0	16.52	AV	273.00	200	Vertical	Pass
2	2985.623	48.04	74.0	25.96	Peak	50.00	300	Vertical	Pass
2**	2985.623	44.54	54.0	9.46	AV	50.00	300	Vertical	Pass
3	4854.928	47.56	74.0	26.44	Peak	192.00	200	Vertical	Pass
3**	4854.928	39.21	54.0	14.79	AV	192.00	200	Vertical	Pass
4	6610.960	56.30	74.0	17.70	Peak	255.00	300	Vertical	Pass
4**	6610.960	47.48	54.0	6.52	AV	255.00	300	Vertical	Pass
5	13433.774	53.84	74.0	20.16	Peak	345.00	400	Vertical	Pass
5**	13433.774	47.09	54.0	6.91	AV	345.00	400	Vertical	Pass
6	17418.270	54.24	74.0	19.76	Peak	150.00	300	Vertical	Pass
6**	17418.270	47.02	54.0	6.98	AV	150.00	300	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	1331.655	42.80	74.0	31.20	Peak	174.00	300	Horizontal	Pass
1**	1331.655	37.97	54.0	16.03	AV	174.00	300	Horizontal	Pass
2	2993.076	49.13	74.0	24.87	Peak	226.00	200	Horizontal	Pass
2**	2993.076	41.07	54.0	12.93	AV	226.00	200	Horizontal	Pass
3	4937.074	53.99	74.0	20.01	Peak	40.00	200	Horizontal	Pass
3**	4937.074	39.15	54.0	14.85	AV	40.00	200	Horizontal	Pass
4	6804.989	56.48	74.0	17.52	Peak	196.00	300	Horizontal	Pass
4**	6804.989	42.89	54.0	11.11	AV	196.00	300	Horizontal	Pass
5	13409.120	56.32	74.0	17.68	Peak	3.00	300	Horizontal	Pass
5**	13409.120	43.96	54.0	10.04	AV	3.00	300	Horizontal	Pass
6	17424.323	58.62	74.0	15.38	Peak	258.00	100	Horizontal	Pass
6**	17424.323	48.42	54.0	5.58	AV	258.00	100	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	1332.645	44.00	74.0	30.00	Peak	231.00	400	Vertical	Pass
1**	1332.645	40.04	54.0	13.96	AV	231.00	400	Vertical	Pass
2	2985.844	49.49	74.0	24.51	Peak	115.00	200	Vertical	Pass
2**	2985.844	42.23	54.0	11.77	AV	115.00	200	Vertical	Pass
3	4852.017	48.37	74.0	25.63	Peak	147.00	200	Vertical	Pass
3**	4852.017	42.64	54.0	11.36	AV	147.00	200	Vertical	Pass
4	6604.255	51.86	74.0	22.14	Peak	248.00	200	Vertical	Pass
4**	6604.255	45.33	54.0	8.67	AV	248.00	200	Vertical	Pass
5	13436.276	54.90	74.0	19.10	Peak	306.00	400	Vertical	Pass
5**	13436.276	46.74	54.0	7.26	AV	306.00	400	Vertical	Pass
6	17419.802	55.03	74.0	18.97	Peak	240.00	400	Vertical	Pass
6**	17419.802	45.92	54.0	8.08	AV	240.00	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	1330.882	43.49	74.0	30.51	Peak	12.00	200	Horizontal	Pass
1**	1330.882	37.21	54.0	16.79	AV	12.00	200	Horizontal	Pass
2	2999.082	49.13	74.0	24.87	Peak	127.00	100	Horizontal	Pass
2**	2999.082	43.12	54.0	10.88	AV	127.00	100	Horizontal	Pass
3	4934.375	50.18	74.0	23.82	Peak	266.00	200	Horizontal	Pass
3**	4934.375	39.94	54.0	14.06	AV	266.00	200	Horizontal	Pass
4	6810.113	52.88	74.0	21.12	Peak	80.00	300	Horizontal	Pass
4**	6810.113	46.89	54.0	7.11	AV	80.00	300	Horizontal	Pass
5	13411.291	56.03	74.0	17.97	Peak	215.00	300	Horizontal	Pass
5**	13411.291	49.03	54.0	4.97	AV	215.00	300	Horizontal	Pass
6	17429.647	57.26	74.0	16.74	Peak	2.00	100	Horizontal	Pass
6**	17429.647	45.97	54.0	8.03	AV	2.00	100	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	1331.858	45.57	74.0	28.43	Peak	305.00	100	Vertical	Pass
1**	1331.858	40.27	54.0	13.73	AV	305.00	100	Vertical	Pass
2	2985.828	50.81	74.0	23.19	Peak	204.00	200	Vertical	Pass
2**	2985.828	39.36	54.0	14.64	AV	204.00	200	Vertical	Pass
3	4854.062	49.70	74.0	24.30	Peak	355.00	200	Vertical	Pass
3**	4854.062	38.03	54.0	15.97	AV	355.00	200	Vertical	Pass
4	6606.065	52.69	74.0	21.31	Peak	162.00	300	Vertical	Pass
4**	6606.065	46.23	54.0	7.77	AV	162.00	300	Vertical	Pass
5	13435.406	57.73	74.0	16.27	Peak	211.00	400	Vertical	Pass
5**	13435.406	43.91	54.0	10.09	AV	211.00	400	Vertical	Pass
6	17420.113	57.37	74.0	16.63	Peak	197.00	300	Vertical	Pass
6**	17420.113	44.40	54.0	9.60	AV	197.00	300	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	1327.849	46.62	74.0	27.38	Peak	139.00	400	Horizontal	Pass
1**	1327.849	33.98	54.0	20.02	AV	139.00	400	Horizontal	Pass
2	2993.463	48.78	74.0	25.22	Peak	204.00	100	Horizontal	Pass
2**	2993.463	38.85	54.0	15.15	AV	204.00	100	Horizontal	Pass
3	4933.330	54.45	74.0	19.55	Peak	252.00	200	Horizontal	Pass
3**	4933.330	43.45	54.0	10.55	AV	252.00	200	Horizontal	Pass
4	6809.583	51.60	74.0	22.40	Peak	145.00	200	Horizontal	Pass
4**	6809.583	42.63	54.0	11.37	AV	145.00	200	Horizontal	Pass
5	13411.958	58.07	74.0	15.93	Peak	6.00	100	Horizontal	Pass
5**	13411.958	46.06	54.0	7.94	AV	6.00	100	Horizontal	Pass
6	17427.460	58.01	74.0	15.99	Peak	47.00	300	Horizontal	Pass
6**	17427.460	46.87	54.0	7.13	AV	47.00	300	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	1333.903	47.47	74.0	26.53	Peak	340.00	400	Vertical	Pass
1**	1333.903	35.46	54.0	18.54	AV	340.00	400	Vertical	Pass
2	2981.144	47.52	74.0	26.48	Peak	319.00	200	Vertical	Pass
2**	2981.144	41.94	54.0	12.06	AV	319.00	200	Vertical	Pass
3	4851.153	47.29	74.0	26.71	Peak	156.00	200	Vertical	Pass
3**	4851.153	41.50	54.0	12.50	AV	156.00	200	Vertical	Pass
4	6607.432	52.36	74.0	21.64	Peak	320.00	200	Vertical	Pass
4**	6607.432	42.20	54.0	11.80	AV	320.00	200	Vertical	Pass
5	13431.677	54.77	74.0	19.23	Peak	141.00	400	Vertical	Pass
5**	13431.677	48.25	54.0	5.75	AV	141.00	400	Vertical	Pass
6	17417.764	54.29	74.0	19.71	Peak	44.00	200	Vertical	Pass
6**	17417.764	47.64	54.0	6.36	AV	44.00	200	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	1331.053	45.73	74.0	28.27	Peak	117.00	300	Horizontal	Pass
1**	1331.053	39.57	54.0	14.43	AV	117.00	300	Horizontal	Pass
2	2999.957	49.33	74.0	24.67	Peak	78.00	300	Horizontal	Pass
2**	2999.957	41.34	54.0	12.66	AV	78.00	300	Horizontal	Pass
3	4934.144	50.92	74.0	23.08	Peak	123.00	200	Horizontal	Pass
3**	4934.144	43.37	54.0	10.63	AV	123.00	200	Horizontal	Pass
4	6803.966	55.25	74.0	18.75	Peak	350.00	400	Horizontal	Pass
4**	6803.966	46.48	54.0	7.52	AV	350.00	400	Horizontal	Pass
5	13408.611	57.83	74.0	16.17	Peak	332.00	400	Horizontal	Pass
5**	13408.611	48.52	54.0	5.48	AV	332.00	400	Horizontal	Pass
6	17428.819	57.44	74.0	16.56	Peak	173.00	100	Horizontal	Pass
6**	17428.819	48.93	54.0	5.07	AV	173.00	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	1335.166	44.79	74.0	29.21	Peak	322.00	400	Vertical	Pass
1**	1335.166	39.27	54.0	14.73	AV	322.00	400	Vertical	Pass
2	2979.710	50.29	74.0	23.71	Peak	342.00	400	Vertical	Pass
2**	2979.710	41.39	54.0	12.61	AV	342.00	400	Vertical	Pass
3	4855.675	48.29	74.0	25.71	Peak	204.00	200	Vertical	Pass
3**	4855.675	41.99	54.0	12.01	AV	204.00	200	Vertical	Pass
4	6610.637	53.06	74.0	20.94	Peak	158.00	400	Vertical	Pass
4**	6610.637	44.96	54.0	9.04	AV	158.00	400	Vertical	Pass
5	13431.509	57.87	74.0	16.13	Peak	183.00	100	Vertical	Pass
5**	13431.509	43.83	54.0	10.17	AV	183.00	100	Vertical	Pass
6	17416.991	56.09	74.0	17.91	Peak	305.00	100	Vertical	Pass
6**	17416.991	49.06	54.0	4.94	AV	305.00	100	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	1326.081	46.73	74.0	27.27	Peak	330.00	300	Horizontal	Pass
1**	1326.081	34.43	54.0	19.57	AV	330.00	300	Horizontal	Pass
2	2992.608	52.07	74.0	21.93	Peak	24.00	100	Horizontal	Pass
2**	2992.608	40.88	54.0	13.12	AV	24.00	100	Horizontal	Pass
3	4932.003	50.22	74.0	23.78	Peak	67.00	200	Horizontal	Pass
3**	4932.003	40.72	54.0	13.28	AV	67.00	200	Horizontal	Pass
4	6808.808	52.96	74.0	21.04	Peak	161.00	200	Horizontal	Pass
4**	6808.808	45.52	54.0	8.48	AV	161.00	200	Horizontal	Pass
5	13409.108	54.95	74.0	19.05	Peak	285.00	400	Horizontal	Pass
5**	13409.108	44.20	54.0	9.80	AV	285.00	400	Horizontal	Pass
6	17424.017	55.13	74.0	18.87	Peak	73.00	400	Horizontal	Pass
6**	17424.017	48.81	54.0	5.19	AV	73.00	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	1336.036	44.69	74.0	29.31	Peak	223.00	400	Vertical	Pass
1**	1336.036	40.64	54.0	13.36	AV	223.00	400	Vertical	Pass
2	2983.878	52.56	74.0	21.44	Peak	297.00	100	Vertical	Pass
2**	2983.878	43.72	54.0	10.28	AV	297.00	100	Vertical	Pass
3	4852.612	51.67	74.0	22.33	Peak	353.00	200	Vertical	Pass
3**	4852.612	38.19	54.0	15.81	AV	353.00	200	Vertical	Pass
4	6605.007	53.48	74.0	20.52	Peak	272.00	400	Vertical	Pass
4**	6605.007	42.31	54.0	11.69	AV	272.00	400	Vertical	Pass
5	13437.301	58.40	74.0	15.60	Peak	248.00	200	Vertical	Pass
5**	13437.301	47.18	54.0	6.82	AV	248.00	200	Vertical	Pass
6	17414.134	55.56	74.0	18.44	Peak	238.00	300	Vertical	Pass
6**	17414.134	48.52	54.0	5.48	AV	238.00	300	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	1325.994	41.81	74.0	32.19	Peak	268.00	200	Horizontal	Pass
1**	1325.994	37.58	54.0	16.42	AV	268.00	200	Horizontal	Pass
2	2994.798	47.99	74.0	26.01	Peak	234.00	100	Horizontal	Pass
2**	2994.798	43.84	54.0	10.16	AV	234.00	100	Horizontal	Pass
3	4933.341	54.28	74.0	19.72	Peak	173.00	200	Horizontal	Pass
3**	4933.341	40.30	54.0	13.70	AV	173.00	200	Horizontal	Pass
4	6810.995	51.69	74.0	22.31	Peak	333.00	300	Horizontal	Pass
4**	6810.995	44.92	54.0	9.08	AV	333.00	300	Horizontal	Pass
5	13410.897	57.79	74.0	16.21	Peak	91.00	100	Horizontal	Pass
5**	13410.897	46.21	54.0	7.79	AV	91.00	100	Horizontal	Pass
6	17427.012	54.48	74.0	19.52	Peak	341.00	200	Horizontal	Pass
6**	17427.012	45.43	54.0	8.57	AV	341.00	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	1334.812	43.85	74.0	30.15	Peak	106.00	200	Vertical	Pass
1**	1334.812	35.17	54.0	18.83	AV	106.00	200	Vertical	Pass
2	2978.896	48.90	74.0	25.10	Peak	281.00	400	Vertical	Pass
2**	2978.896	42.28	54.0	11.72	AV	281.00	400	Vertical	Pass
3	4855.530	50.68	74.0	23.32	Peak	182.00	200	Vertical	Pass
3**	4855.530	38.02	54.0	15.98	AV	182.00	200	Vertical	Pass
4	6609.121	52.18	74.0	21.82	Peak	185.00	100	Vertical	Pass
4**	6609.121	46.67	54.0	7.33	AV	185.00	100	Vertical	Pass
5	13433.699	56.13	74.0	17.87	Peak	168.00	400	Vertical	Pass
5**	13433.699	44.36	54.0	9.64	AV	168.00	400	Vertical	Pass
6	17416.379	59.98	74.0	14.02	Peak	205.00	100	Vertical	Pass
6**	17416.379	44.40	54.0	9.60	AV	205.00	100	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	1331.773	43.82	74.0	30.18	Peak	215.00	200	Horizontal	Pass
1**	1331.773	36.48	54.0	17.52	AV	215.00	200	Horizontal	Pass
2	3000.483	49.52	74.0	24.48	Peak	90.00	100	Horizontal	Pass
2**	3000.483	40.23	54.0	13.77	AV	90.00	100	Horizontal	Pass
3	4937.729	51.39	74.0	22.61	Peak	130.00	200	Horizontal	Pass
3**	4937.729	40.95	54.0	13.05	AV	130.00	200	Horizontal	Pass
4	6807.312	55.95	74.0	18.05	Peak	289.00	400	Horizontal	Pass
4**	6807.312	42.90	54.0	11.10	AV	289.00	400	Horizontal	Pass
5	13410.526	52.95	74.0	21.05	Peak	281.00	300	Horizontal	Pass
5**	13410.526	46.86	54.0	7.14	AV	281.00	300	Horizontal	Pass
6	17425.576	57.32	74.0	16.68	Peak	146.00	400	Horizontal	Pass
6**	17425.576	48.28	54.0	5.72	AV	146.00	400	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	1330.259	42.51	74.0	31.49	Peak	113.00	100	Vertical	Pass
1**	1330.259	39.46	54.0	14.54	AV	113.00	100	Vertical	Pass
2	2984.376	50.53	74.0	23.47	Peak	102.00	100	Vertical	Pass
2**	2984.376	41.65	54.0	12.35	AV	102.00	100	Vertical	Pass
3	4855.881	51.83	74.0	22.17	Peak	341.00	200	Vertical	Pass
3**	4855.881	40.78	54.0	13.22	AV	341.00	200	Vertical	Pass
4	6604.197	53.25	74.0	20.75	Peak	84.00	300	Vertical	Pass
4**	6604.197	45.07	54.0	8.93	AV	84.00	300	Vertical	Pass
5	13436.651	53.64	74.0	20.36	Peak	219.00	300	Vertical	Pass
5**	13436.651	47.88	54.0	6.12	AV	219.00	300	Vertical	Pass
6	17420.128	56.73	74.0	17.27	Peak	173.00	400	Vertical	Pass
6**	17420.128	45.17	54.0	8.83	AV	173.00	400	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 C63.10-2020, 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.

Test Data**802.11b LOW CHANNEL**

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2386.167	56.22	74.0	17.78	Peak	307.00	150	Horizontal	Pass
1**	2386.167	45.07	54.0	8.93	AV	307.00	150	Horizontal	Pass
2	2389.833	55.50	74.0	18.50	Peak	58.00	150	Horizontal	Pass
2**	2389.833	44.37	54.0	9.63	AV	58.00	150	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	2483.550	55.02	74.0	18.98	Peak	102.00	200	Horizontal	Pass
1**	2483.550	43.65	54.0	10.35	AV	102.00	200	Horizontal	Pass
2	2485.250	55.76	74.0	18.24	Peak	82.00	200	Horizontal	Pass
2**	2485.250	43.59	54.0	10.41	AV	82.00	200	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	2389.500	67.20	74.0	6.80	Peak	230.00	150	Horizontal	Pass
1**	2389.500	50.78	54.0	3.22	AV	230.00	150	Horizontal	Pass
2	2389.833	65.92	74.0	8.08	Peak	222.00	100	Horizontal	Pass
2**	2389.833	50.99	54.0	3.01	AV	222.00	100	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	59.70	74.0	14.30	Peak	278.00	100	Horizontal	Pass
1**	2483.500	45.32	54.0	8.68	AV	278.00	100	Horizontal	Pass
2	2484.050	59.05	74.0	14.95	Peak	295.00	150	Horizontal	Pass
2**	2484.050	44.67	54.0	9.33	AV	295.00	150	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	2389.667	65.49	74.0	8.51	Peak	196.00	200	Horizontal	Pass
1**	2389.667	50.16	54.0	3.84	AV	196.00	200	Horizontal	Pass
2	2389.833	66.89	74.0	7.11	Peak	317.00	150	Horizontal	Pass
2**	2389.833	50.64	54.0	3.36	AV	317.00	150	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	58.63	74.0	15.37	Peak	356.00	150	Horizontal	Pass
1**	2483.500	46.05	54.0	7.95	AV	356.00	150	Horizontal	Pass
2	2483.900	63.10	74.0	10.90	Peak	287.00	200	Horizontal	Pass
2**	2483.900	45.57	54.0	8.43	AV	287.00	200	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	2386.000	69.43	74.0	4.57	Peak	211.00	100	Horizontal	Pass
1**	2386.000	48.92	54.0	5.08	AV	211.00	100	Horizontal	Pass
2	2389.833	69.82	74.0	4.18	Peak	218.00	150	Horizontal	Pass
2**	2389.833	50.21	54.0	3.79	AV	218.00	150	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	63.62	74.0	10.38	Peak	289.00	100	Horizontal	Pass
1**	2483.500	50.14	54.0	3.86	AV	289.00	100	Horizontal	Pass
2	2488.900	66.35	74.0	7.65	Peak	293.00	100	Horizontal	Pass
2**	2488.900	47.17	54.0	6.83	AV	293.00	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	2389.167	66.89	74.0	7.11	Peak	126.00	150	Horizontal	Pass
1**	2389.167	49.63	54.0	4.37	AV	126.00	150	Horizontal	Pass
2	2389.833	66.61	74.0	7.39	Peak	228.00	100	Horizontal	Pass
2**	2389.833	49.98	54.0	4.02	AV	228.00	100	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	62.04	74.0	11.96	Peak	187.00	100	Horizontal	Pass
1**	2483.500	46.65	54.0	7.35	AV	187.00	100	Horizontal	Pass
2	2484.600	62.16	74.0	11.84	Peak	285.00	200	Horizontal	Pass
2**	2484.600	45.71	54.0	8.29	AV	285.00	200	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	2387.167	68.10	74.0	5.90	Peak	296.00	200	Horizontal	Pass
1**	2387.167	49.73	54.0	4.27	AV	296.00	200	Horizontal	Pass
2	2389.833	65.81	74.0	8.19	Peak	204.00	100	Horizontal	Pass
2**	2389.833	50.91	54.0	3.09	AV	204.00	100	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	2483.550	62.60	74.0	11.40	Peak	288.00	150	Horizontal	Pass
1**	2483.550	50.62	54.0	3.38	AV	288.00	150	Horizontal	Pass
2	2490.300	66.53	74.0	7.47	Peak	181.00	200	Horizontal	Pass
2**	2490.300	47.08	54.0	6.92	AV	181.00	200	Horizontal	Pass

A.8 Power Spectral Density (PSD)

Test Data

802.11b Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-10.30	8
Middle	-10.11	8
High	-11.18	8

802.11g Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-12.03	8
Middle	-10.49	8
High	-12.45	8

802.11n-20 MHz Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-11.37	8
Middle	-11.39	8
High	-12.80	8

802.11n-40 MHz Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-14.94	8
Middle	-13.85	8
High	-13.83	8

802.11ax-20 MHz(SU) Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-15.54	8
Middle	-14.74	8
High	-15.14	8

802.11ax-40 MHz(SU) Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-19.56	8
Middle	-17.95	8
High	-18.07	8

Test Plots

802.11b LOW CHANNEL



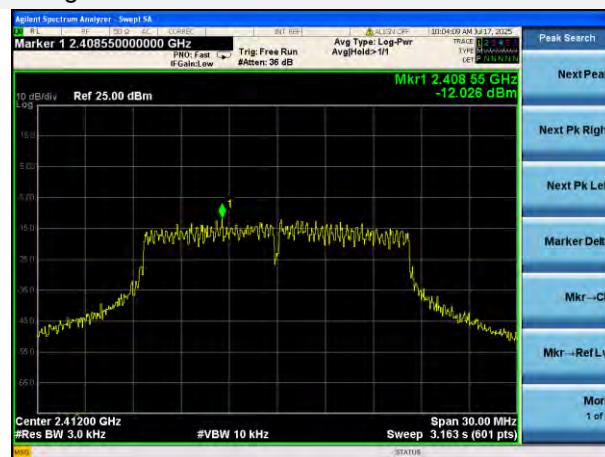
802.11b MIDDLE CHANNEL



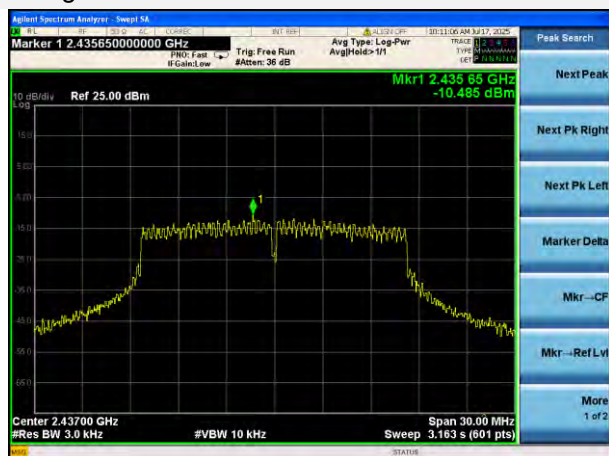
802.11b HIGH CHANNEL



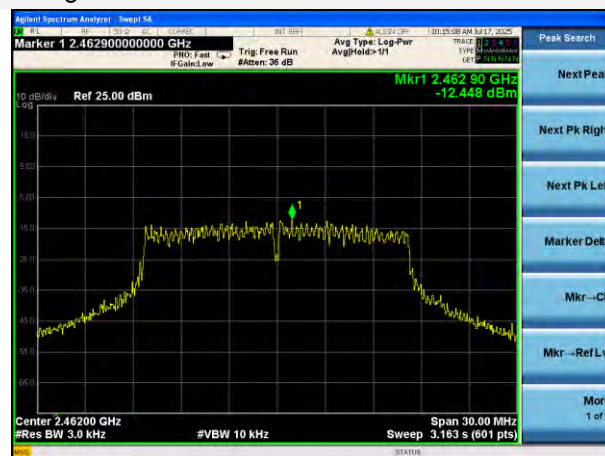
802.11g LOW CHANNEL



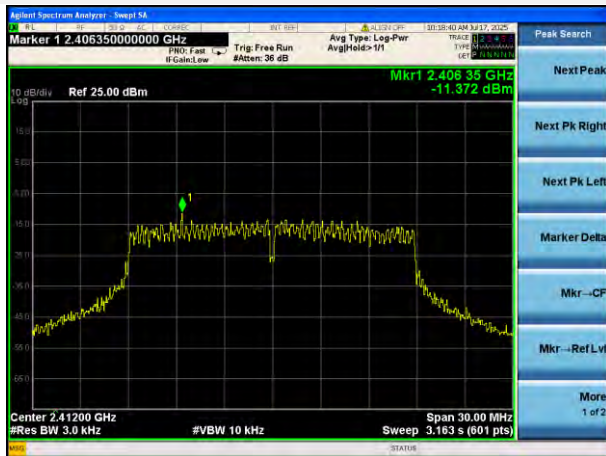
802.11g MIDDLE CHANNEL



802.11g HIGH CHANNEL



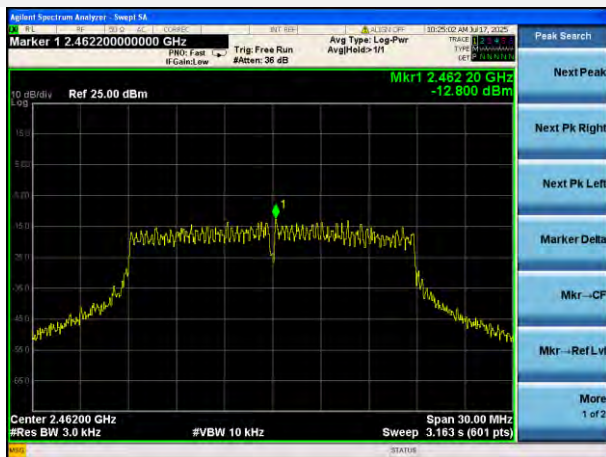
802.11n-20 MHz LOW CHANNEL



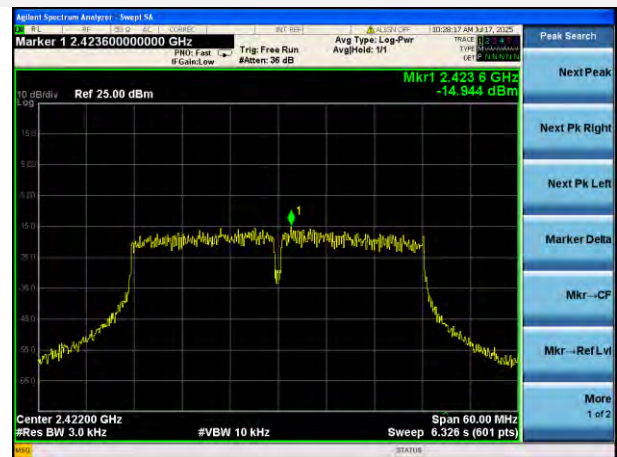
802.11n-20 MHz MIDDLE CHANNEL



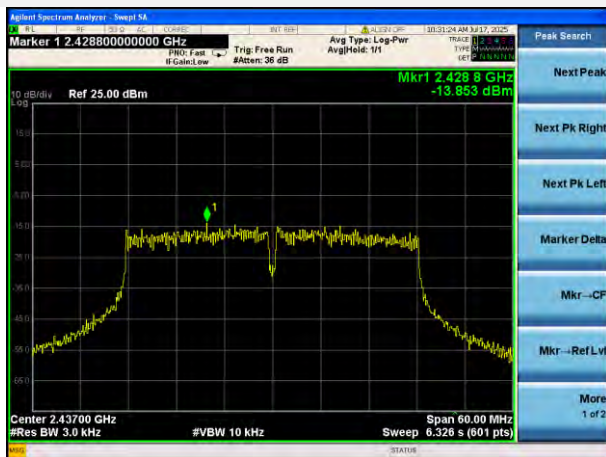
802.11n-20 MHz HIGH CHANNEL



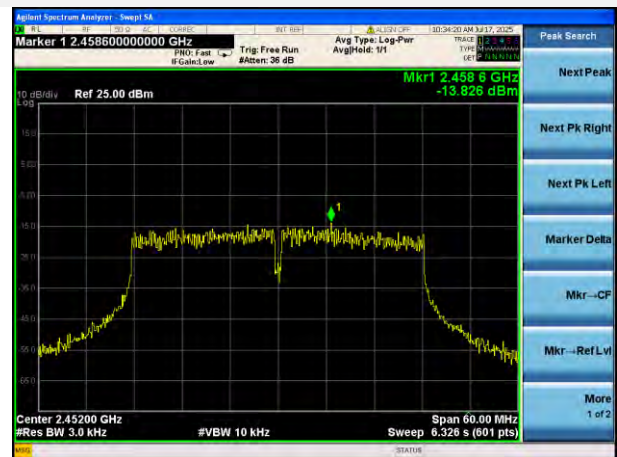
802.11n-40 MHz LOW CHANNEL



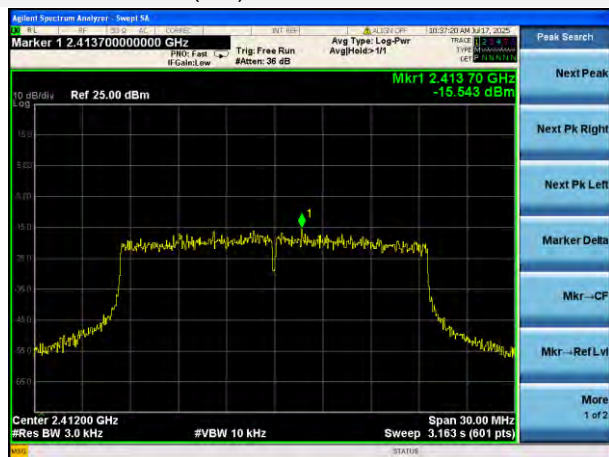
802.11n-40 MHz MIDDLE CHANNEL



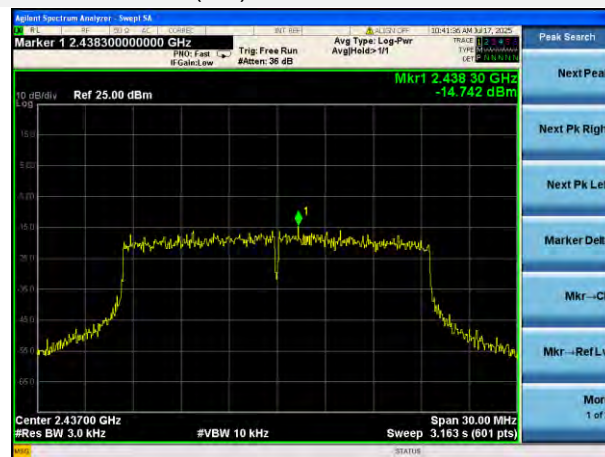
802.11n-40 MHz HIGH CHANNEL



802.11ax-20 MHz(SU) LOW CHANNEL



802.11ax-20 MHz(SU) MIDDLE CHANNEL



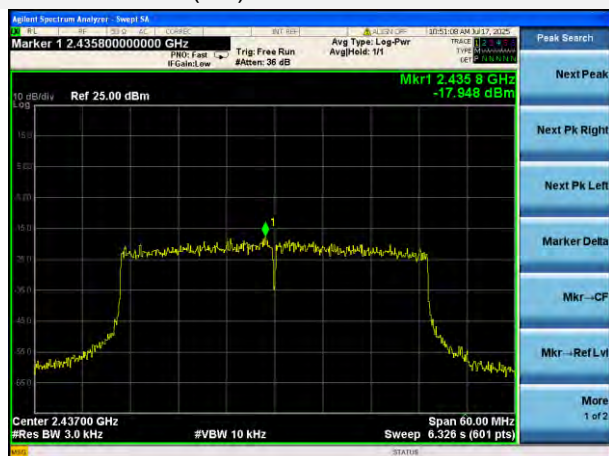
802.11ax-20 MHz(SU) HIGH CHANNEL



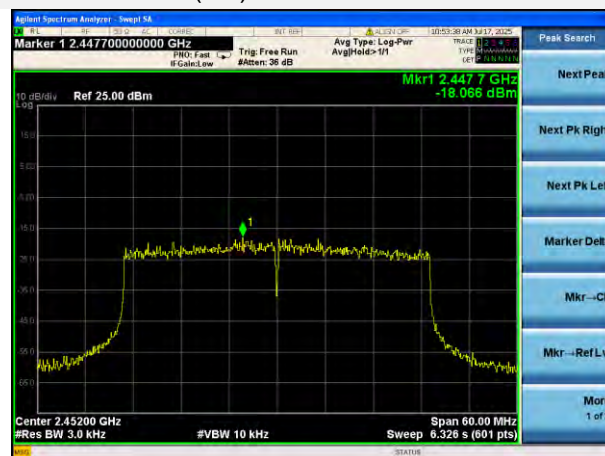
802.11ax-40 MHz(SU) LOW CHANNEL



802.11ax-40 MHz(SU) MIDDLE CHANNEL



802.11ax-40 MHz(SU) HIGH CHANNEL



ANNEX B TEST SETUP PHOTOS

Please refer the document “BL-SZ2570083-AR.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SZ2570083-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SZ2570083-AI.PDF”.

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