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:	A25012
Brand Name:	acer
Marketing Name:	Iconia V13, V13-11M
FCC ID:	HLZA25012
ISED Number:	1754F-A25012
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. 23, 2025
Test Date:	Jul. 26, 2025 - Aug. 08, 2025
Date of Issue:	Sep. 17, 2025

ISSUED BY:

Shenzhen BALUN Technology Co., Ltd.

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

Revision History

Version	Issue Date	Revisions
Rev. 01	Sep. 10, 2025	Initial Issue
Rev. 02	Sep. 17, 2025	Updated the 99% Bandwidth Low channel for 802.11n20 in Chapter A.2

TABLE OF CONTENTS

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	A25012
Series Model Name	N/A
Description of Model name differentiation	N/A
Marketing Name	Iconia V13, V13-11M
Serial Number	NBLJY11001528100019H00
Hardware Version	M112TC
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 GPS, GLONASS, BDS, Galileo

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 MHz + (N-1)*5 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 MHz + (N-1)*5 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	3.01 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 C63.10-2013	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	46% to 63%	
Atmospheric Pressure	100 kPa to 102 kPa	
Temperature	NT (Normal Temperature)	+21.8℃ to +24.1℃
Working Voltage of the EUT	NV (Normal Voltage)	3.80 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	MY50531259	2025.06.16	2026.06.15
Test Antenna-Horn	SCHWARZBECK	BBHA 9120D	02460	2024.05.16	2027.05.15
Test Antenna-Horn	A-INFO	LB-180400KF	J211060273	2024.06.15	2027.06.14
Anechoic Chamber	RAINFORD	9m*6m*6m	140	2024.07.28	2027.07.27
Amplifier	COM-MV	LSCX_LNA1-12G-01	7210214	2025.06.17	2026.06.16
Amplifier	COM-MV	XKu_LNA7-18G-01	7210209	2025.06.17	2026.06.16
EMI Receiver	ROHDE&SCHWARZ	ESRP	101036	2025.06.16	2026.06.15
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	2025.06.16	2026.06.15
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.

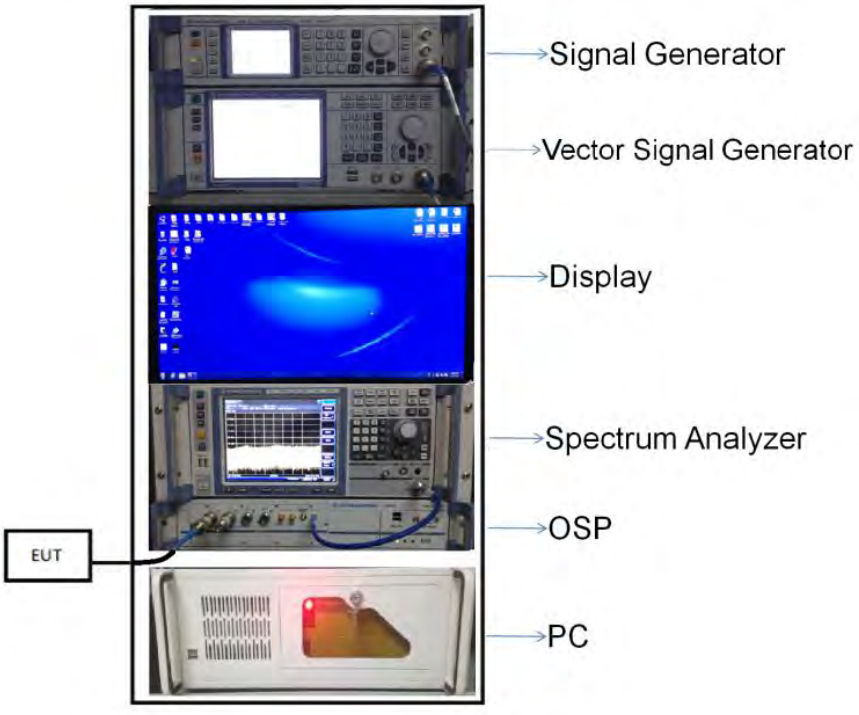
Parameters	Uncertainty
Occupied Channel Bandwidth	2.8%
RF output power, conducted	1.28 dB
Power Spectral Density, conducted	1.30 dB
Unwanted Emissions, conducted	1.84 dB
All emissions, radiated	5.36 dB
Temperature	0.8℃
Humidity	4%

4.5 Description of Test Setup

4.5.1 For Antenna Port Test

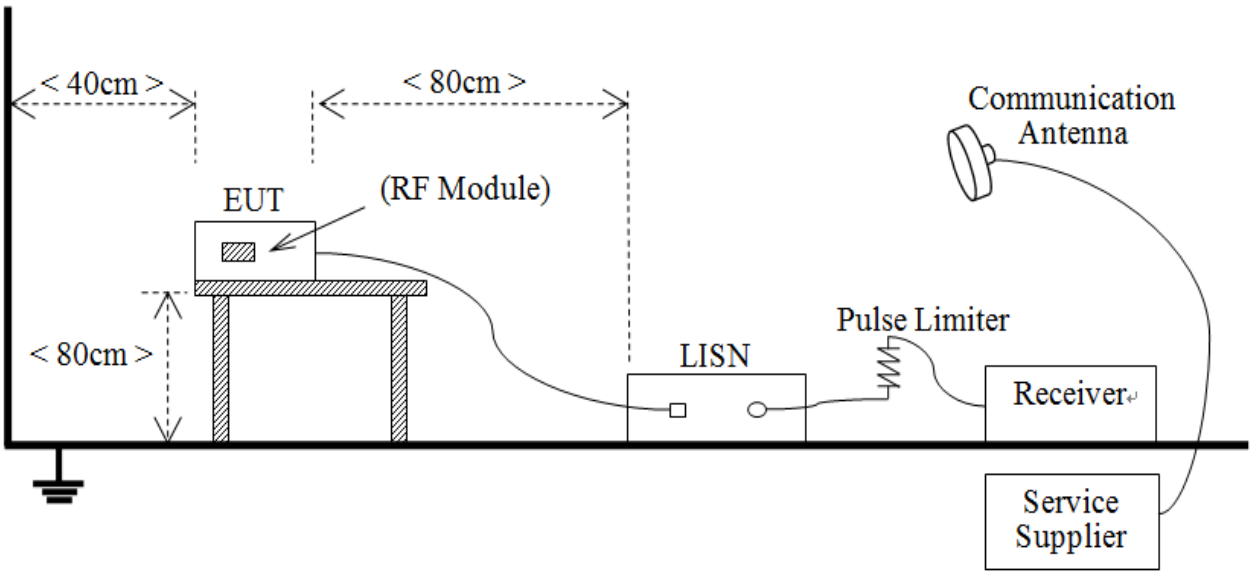
Conducted value (dBm) = Measurement value (dBm) + cable loss (dB)

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



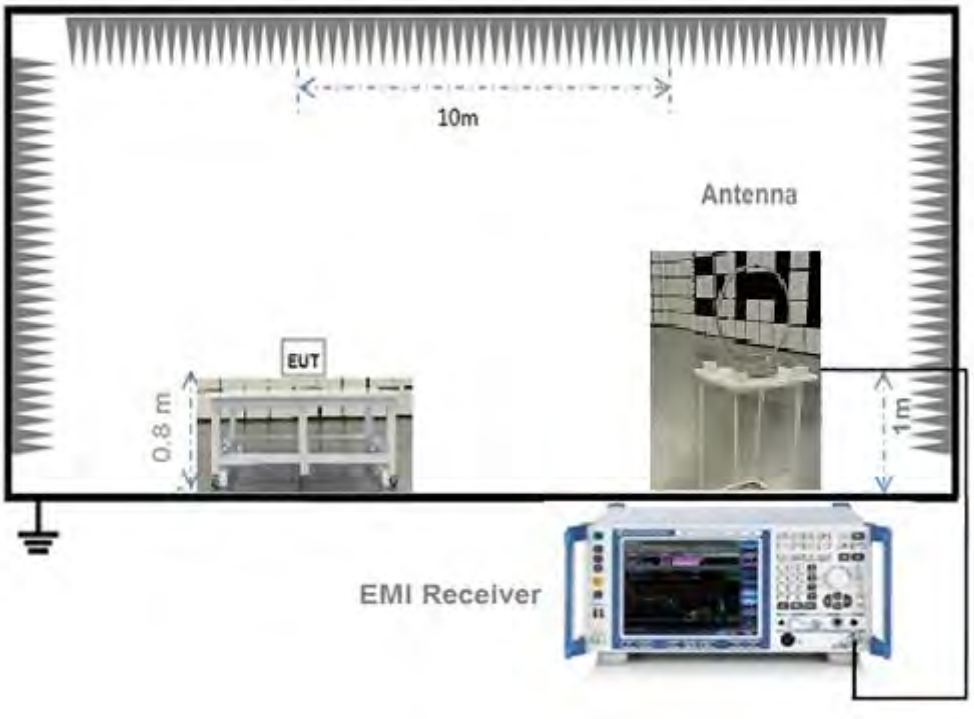
(Diagram 1)

4.5.2 For AC Power Supply Port Test



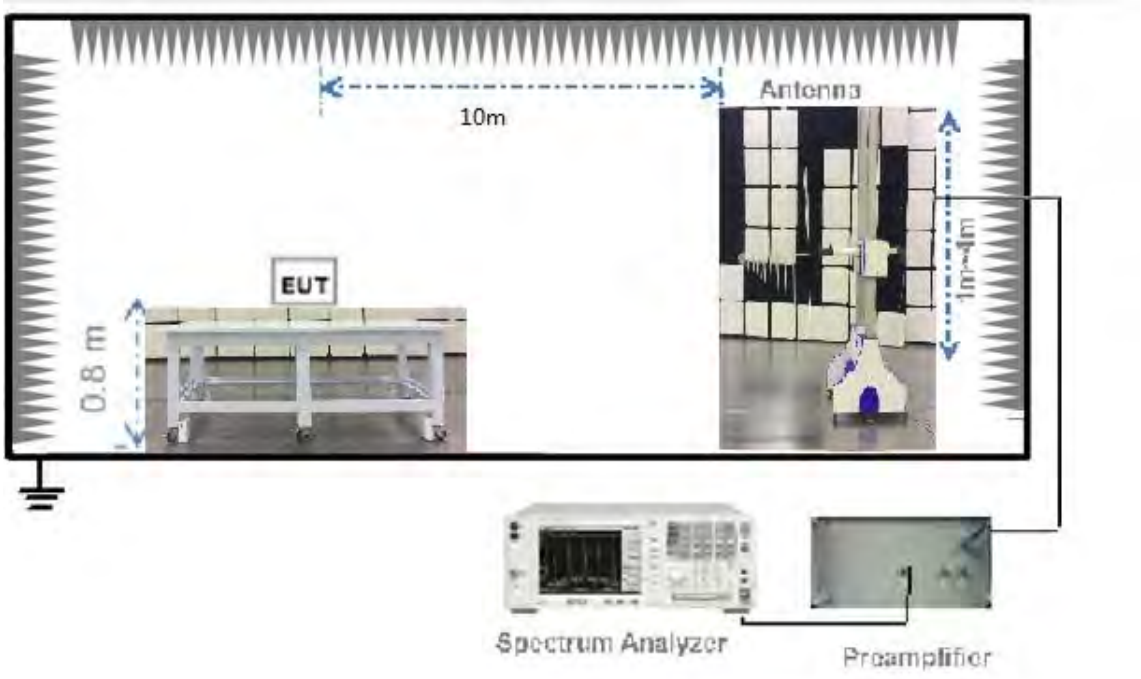
(Diagram 2)

4.5.3 For Radiated Test (Below 30 MHz)



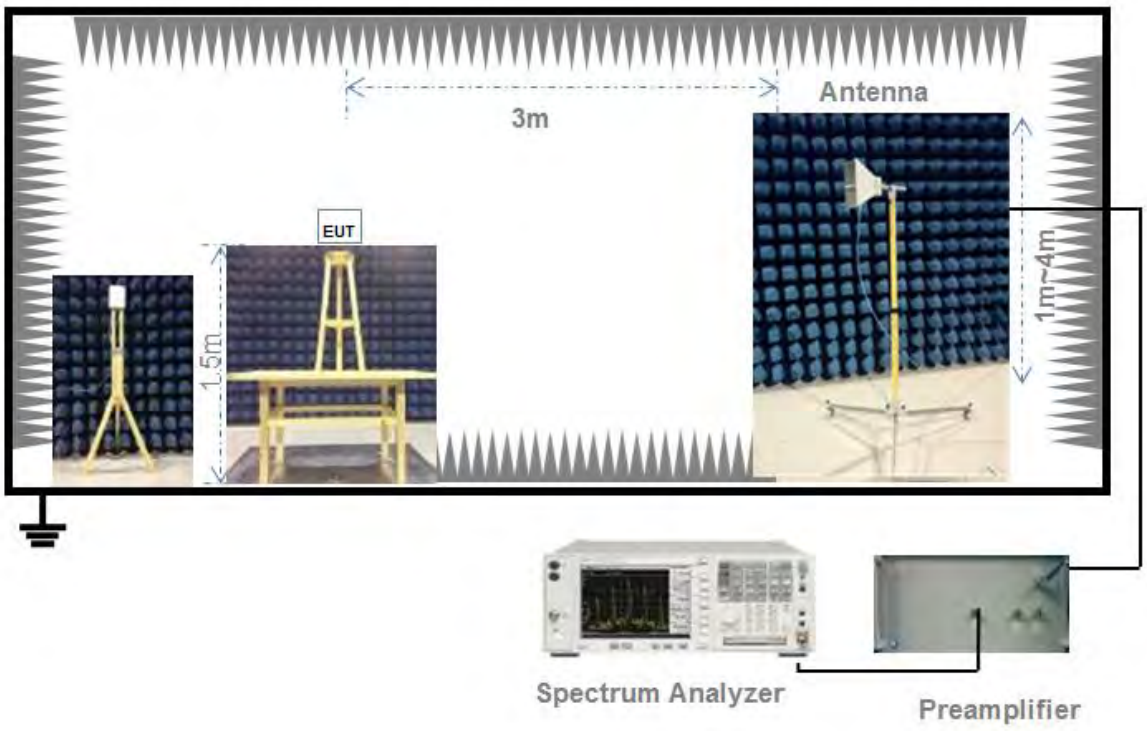
(Diagram 3)

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 = EIRP – 20log D + 104.8

where:

E = electric field strength in dBμV/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 10log (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 ≥ OBW if possible; otherwise, set RBW to the largest available value.

Set VBW ≥ 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 ≤ 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) $\geqslant$ 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 ≥ 3 x 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 ⩾ 3 x 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 $\geqslant$ 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 $\geqslant$ 3 x 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 (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 50μH/50Ω line impedance stabilization network (LISN).

Frequency range (MHz)	Conducted Limit (dBμV)	
	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 (μV/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:

$E = EIRP – 20\log D + 104.8$

where:

E = electric field strength in dBμV/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 ≥ 3 x 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 ≥ 3 x RBW.

e) Detector = RMS, if span/(# of points in sweep) ≤ (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 ≥ 1 GHz, 100 kHz for f < 1 GHz
VBW ≥ 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 ≥ 1 GHz, 100 kHz for f < 1 GHz
VBW ≥ 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 kHz $\leqslant$ RBW $\leqslant$ 100 kHz.

Set the VBW $\geqslant$ 3 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	8.36	8.62	96.95%	0.13
802.11g	1.39	1.64	85.02%	0.71
802.11n-20 MHz	1.30	1.55	83.52%	0.78
802.11n-40 MHz	0.65	0.90	71.89%	1.43
802.11ax-20 MHz	1.01	1.26	80.14%	0.96
802.11ax-40 MHz	0.53	0.79	67.77%	1.69

Peak Power Test Data

802.11b Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	20.34	108.14	30	1000	Pass
Middle	20.27	106.41			Pass
High	20.25	105.93			Pass

802.11g Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	22.72	187.07	30	1000	Pass
Middle	22.83	191.87			Pass
High	20.65	116.14			Pass

802.11n-20 MHz Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	23.55	226.46	30	1000	Pass
Middle	23.53	225.42			Pass
High	20.38	109.14			Pass

802.11n-40 MHz Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	20.72	118.03	30	1000	Pass
Middle	22.80	190.55			Pass
High	20.80	120.23			Pass

802.11ax-20 MHz(SU) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	21.89	154.53	30	1000	Pass
Middle	25.27	336.51			Pass
High	22.04	159.96			Pass

802.11ax-40 MHz(SU) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	22.49	177.42	30	1000	Pass
Middle	24.77	299.92			Pass
High	22.63	183.23			Pass

Average Power Test Data

802.11b Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	17.23	52.84	30	1000	Pass
Middle	17.18	52.24			Pass
High	17.13	51.64			Pass

802.11g Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	17.03	50.47	30	1000	Pass
Middle	17.08	51.05			Pass
High	14.90	30.90			Pass

802.11n-20 MHz Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	17.84	60.81	30	1000	Pass
Middle	17.86	61.09			Pass
High	14.68	29.38			Pass

802.11n-40 MHz Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	14.29	26.85	30	1000	Pass
Middle	16.49	44.57			Pass
High	14.35	27.23			Pass

802.11ax-20 MHz(SU) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	14.57	28.64	30	1000	Pass
Middle	17.84	60.81			Pass
High	14.69	29.44			Pass

802.11ax-40 MHz(SU) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	14.21	26.36	30	1000	Pass
Middle	16.48	44.46			Pass
High	14.30	26.92			Pass

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

802.11b Mode:

Channel	E.I.R.P		Limit		Verdict
	dBm	mW	dBm	W	
Low	23.35	216.27	36	4	Pass
Middle	23.28	212.81			Pass
High	23.26	211.84			Pass

802.11g Mode:

Channel	E.I.R.P		Limit		Verdict
	dBm	mW	dBm	W	
Low	25.73	374.11	36	4	Pass
Middle	25.84	383.71			Pass
High	23.66	232.27			Pass

802.11n-20 MHz Mode:

Channel	E.I.R.P		Limit		Verdict
	dBm	mW	dBm	W	
Low	26.56	452.90	36	4	Pass
Middle	26.54	450.82			Pass
High	23.39	218.27			Pass

802.11n-40 MHz Mode:

Channel	E.I.R.P		Limit		Verdict
	dBm	mW	dBm	W	
Low	23.73	236.05	36	4	Pass
Middle	25.81	381.07			Pass
High	23.81	240.44			Pass

802.11ax-20 MHz(SU) Mode:

Channel	E.I.R.P		Limit		Verdict
	dBm	mW	dBm	W	
Low	24.90	309.03	36	4	Pass
Middle	28.28	672.98			Pass
High	25.05	319.89			Pass

802.11ax-40 MHz(SU) Mode:

Channel	E.I.R.P		Limit		Verdict
	dBm	mW	dBm	W	
Low	25.50	354.81	36	4	Pass
Middle	27.78	599.79			Pass
High	25.64	366.44			Pass

A.2 Occupied Bandwidth

Test Data

802.11b Mode:

Channel	6 dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limits (kHz)
Low	8.200000	12.662000	≥500
Middle	8.200000	12.684000	≥500
High	8.700000	12.687000	≥500

802.11g Mode:

Channel	6 dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limits (kHz)
Low	15.300000	17.330000	≥500
Middle	15.300000	17.284000	≥500
High	15.300000	17.633000	≥500

802.11n-20MHz Mode:

Channel	6 dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limits (kHz)
Low	15.300000	18.548000	≥500
Middle	15.200000	18.458000	≥500
High	15.400000	18.681000	≥500

802.11n-40MHz Mode:

Channel	6 dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limits (kHz)
Low	35.300000	36.498000	≥500
Middle	35.300000	36.457000	≥500
High	35.200000	36.587000	≥500

802.11ax-20 MHz(SU) Mode:

Channel	6 dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limits (kHz)
Low	17.500000	18.990000	≥500
Middle	16.200000	19.160000	≥500
High	15.500000	19.143000	≥500

802.11ax-40 MHz(SU) Mode:

Channel	6 dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limits (kHz)
Low	35.200000	37.765000	≥500
Middle	35.200000	37.633000	≥500
High	35.200000	37.677000	≥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

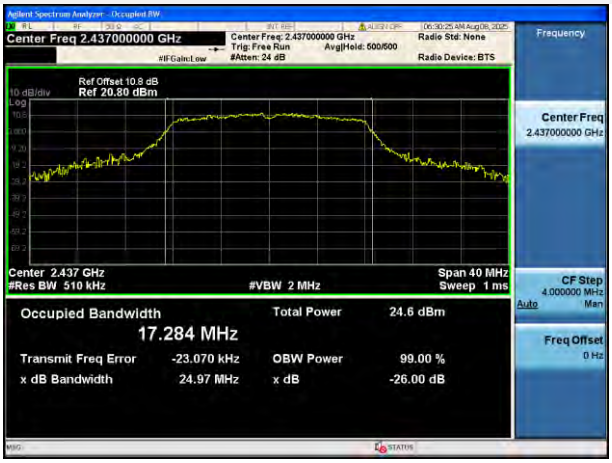
802.11b LOW CHANNEL

802.11b MIDDLE CHANNEL

802.11b HIGH CHANNEL

802.11g LOW CHANNEL

802.11g MIDDLE CHANNEL



802.11g HIGH CHANNEL

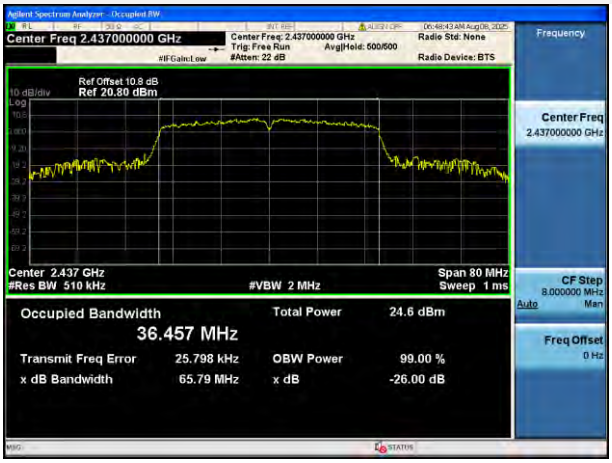
802.11n-20 MHz LOW CHANNEL

802.11n-20 MHz MIDDLE CHANNEL

802.11n-20 MHz HIGH CHANNEL

802.11n-40 MHz LOW CHANNEL

802.11n-40 MHz MIDDLE CHANNEL



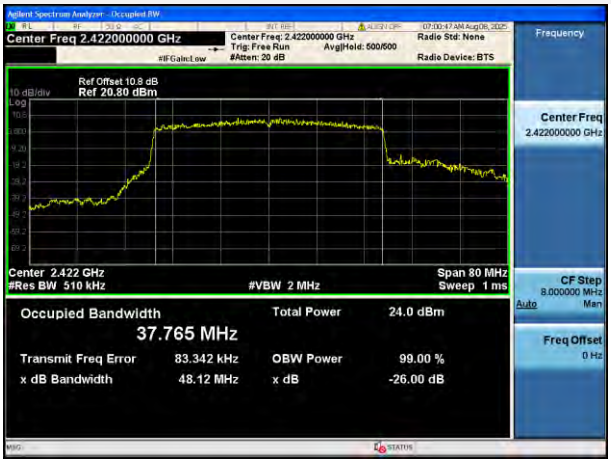
802.11n-40 MHz HIGH CHANNEL

802.11ax-20 MHz(SU) LOW CHANNEL

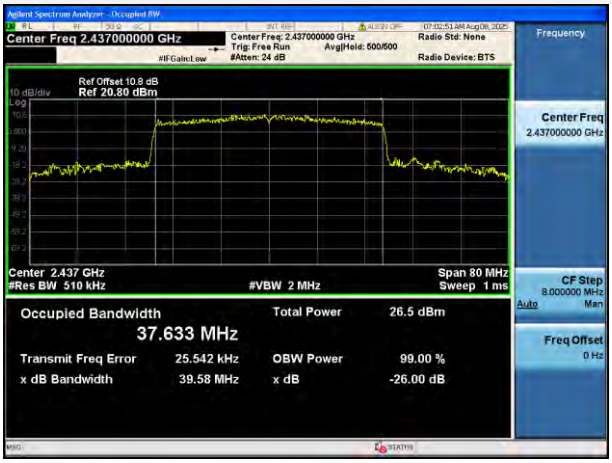
802.11ax-20 MHz(SU) MIDDLE CHANNEL

802.11ax-20 MHz(SU) HIGH CHANNEL

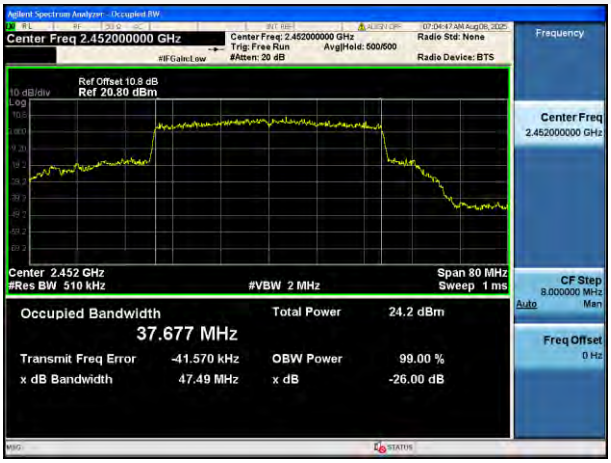
802.11ax-40 MHz(SU) LOW CHANNEL



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	-38.91	8.38	-11.62	Pass
Middle	-38.51	8.42	-11.58	Pass
High	-39.15	8.36	-11.64	Pass

802.11g Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-40.22	6.62	-13.38	Pass
Middle	-38.94	7.64	-12.36	Pass
High	-39.96	6.28	-13.72	Pass

802.11n-20MHz Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-39.99	9.06	-10.94	Pass
Middle	-39.04	7.60	-12.40	Pass
High	-39.96	6.27	-13.73	Pass

802.11n-40MHz Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-39.86	2.75	-17.25	Pass
Middle	-39.95	4.96	-15.04	Pass
High	-39.01	2.77	-17.23	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	-39.88	5.13	-14.87	Pass
Middle	-38.43	7.60	-12.40	Pass
High	-38.86	5.47	-14.53	Pass

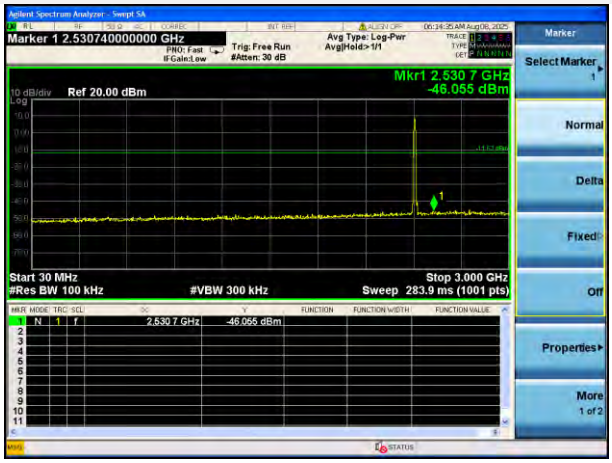
802.11ax-40 MHz(SU) Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-38.88	2.70	-17.30	Pass
Middle	-37.83	4.97	-15.03	Pass
High	-40.13	2.89	-17.11	Pass

Test Plots

802.11b LOW CHANNEL CARRIER LEVEL

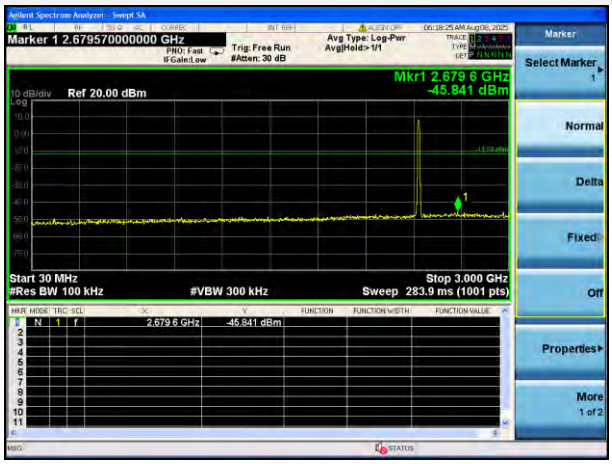
802.11b LOW CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



802.11b LOW CHANNEL, SPURIOUS 2 GHz ~ 25 GHz

802.11b MIDDLE CHANNEL CARRIER LEVEL

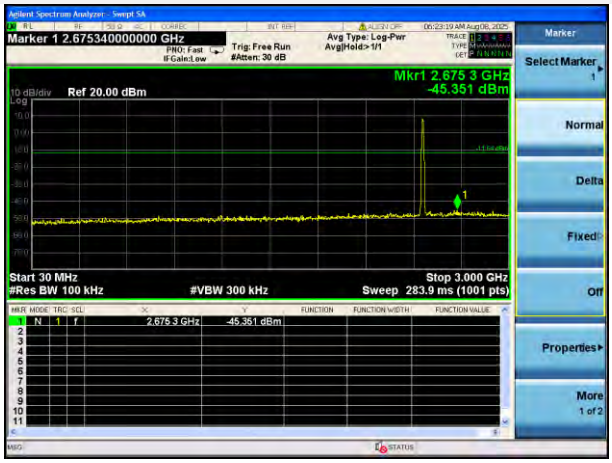
802.11b MIDDLE CHANNEL, SPURIOUS
30 MHz ~ 3 GHz



802.11b MIDDLE CHANNEL, SPURIOUS
2 GHz ~ 25 GHz

802.11b HIGH CHANNEL CARRIER LEVEL

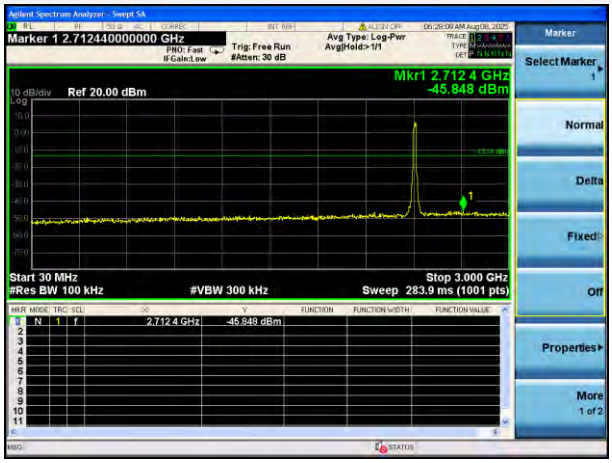
802.11b HIGH CHANNEL, SPURIOUS
30 MHz ~ 3 GHz



802.11b HIGH CHANNEL, SPURIOUS
2 GHz ~ 25 GHz

802.11g LOW CHANNEL CARRIER LEVEL

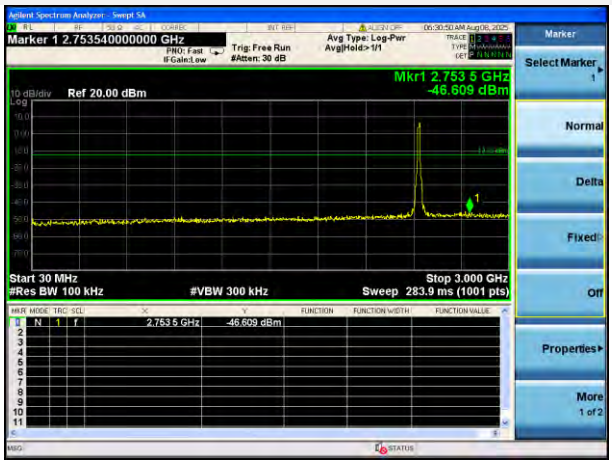
802.11g LOW CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



802.11g LOW CHANNEL, SPURIOUS 2 GHz ~ 25 GHz

802.11g MIDDLE CHANNEL CARRIER LEVEL

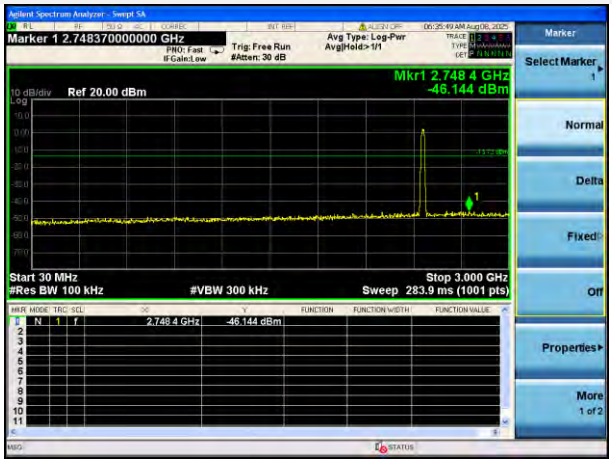
802.11g MIDDLE CHANNEL, SPURIOUS
30 MHz ~ 3 GHz



802.11g MIDDLE CHANNEL, SPURIOUS
2 GHz ~ 25 GHz

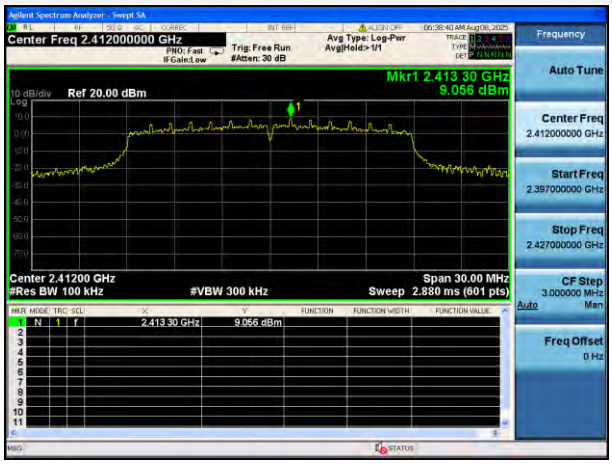
802.11g HIGH CHANNEL CARRIER LEVEL

802.11g HIGH CHANNEL, SPURIOUS
30 MHz ~ 3 GHz

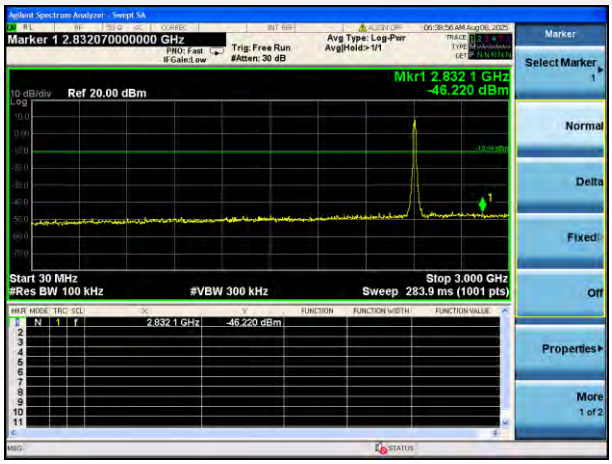


802.11g HIGH CHANNEL, SPURIOUS
2 GHz ~ 25 GHz

802.11n-20 MHz LOW CHANNEL CARRIER LEVEL



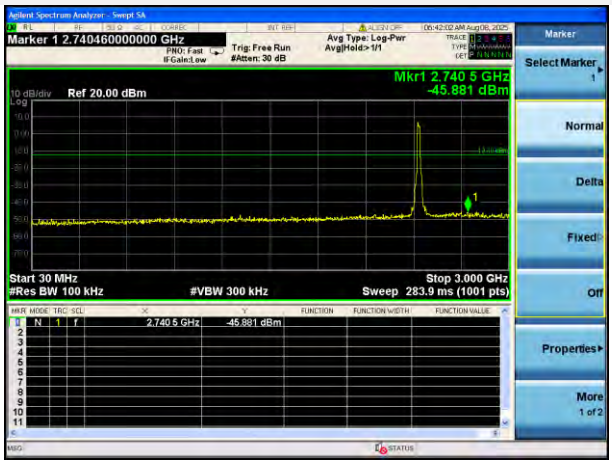
802.11n-20 MHz LOW CHANNEL, SPURIOUS
30 MHz ~ 3 GHz



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

802.11n-20 MHz MIDDLE CHANNEL CARRIER LEVEL

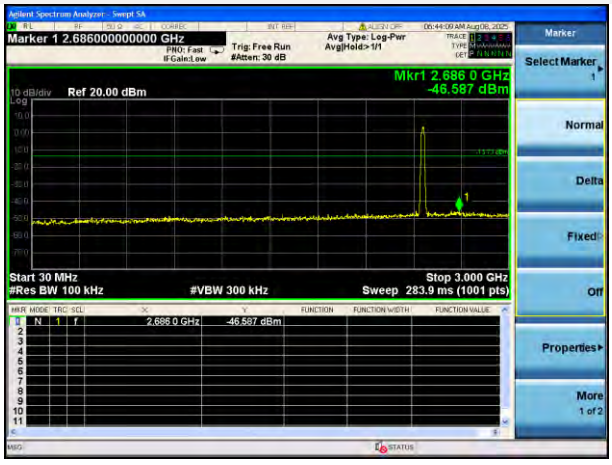
802.11n-20 MHz MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



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

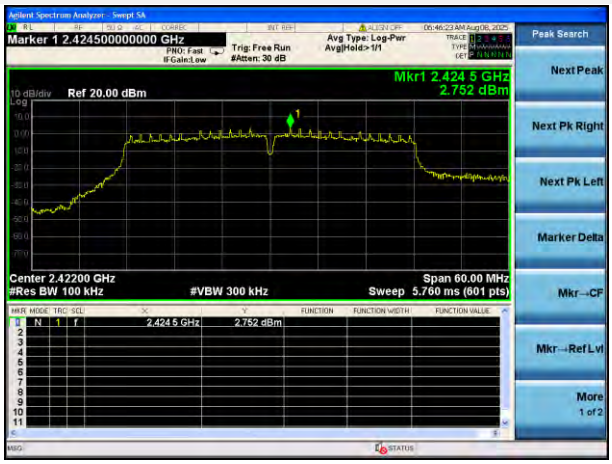
802.11n-20 MHz HIGH CHANNEL CARRIER LEVEL

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

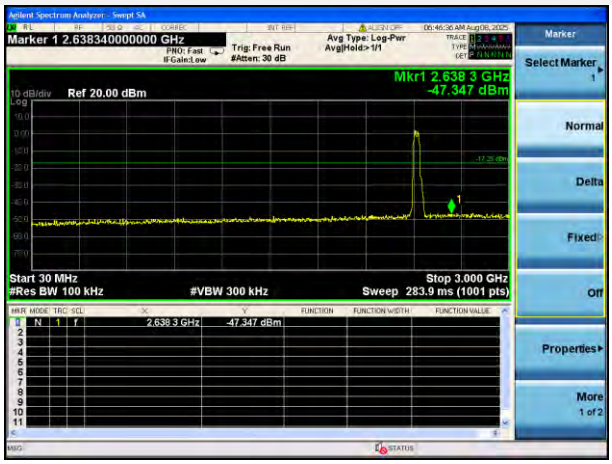


802.11n-20 MHz HIGH CHANNEL, SPURIOUS 2 GHz ~ 25 GHz

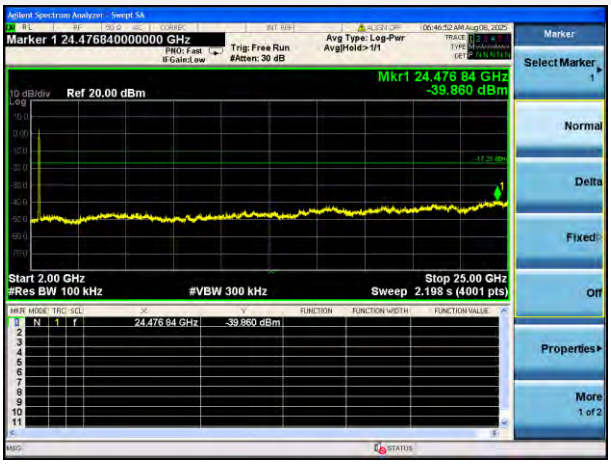
802.11n-40 MHz LOW CHANNEL CARRIER LEVEL



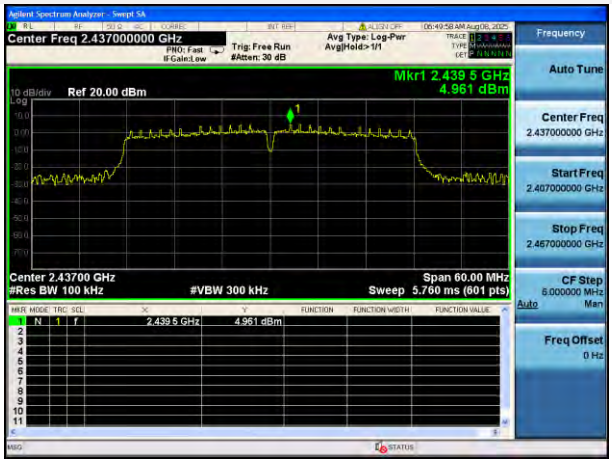
802.11n-40 MHz LOW CHANNEL, SPURIOUS
30 MHz ~ 3 GHz



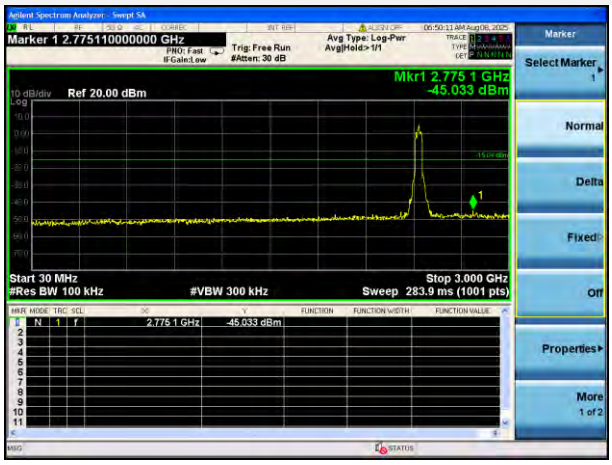
802.11n-40 MHz LOW CHANNEL, SPURIOUS
2 GHz ~ 25 GHz



802.11n-40 MHz MIDDLE CHANNEL CARRIER LEVEL

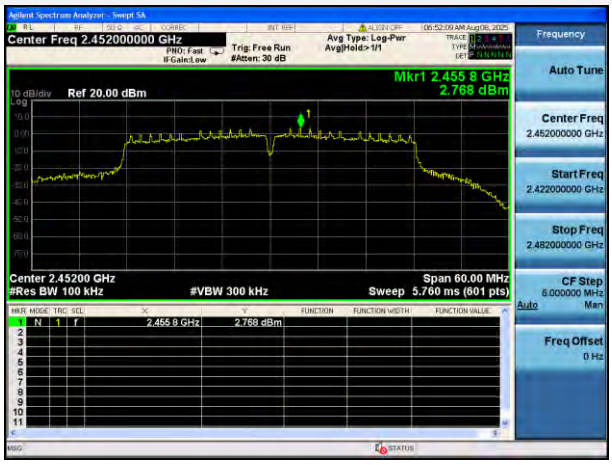


802.11n-40 MHz MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz

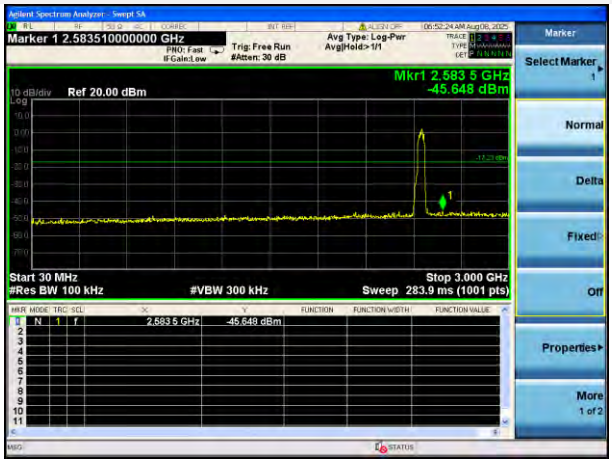


802.11n-40 MHz MIDDLE CHANNEL, SPURIOUS 2 GHz ~ 25 GHz

802.11n-40 MHz HIGH CHANNEL CARRIER LEVEL



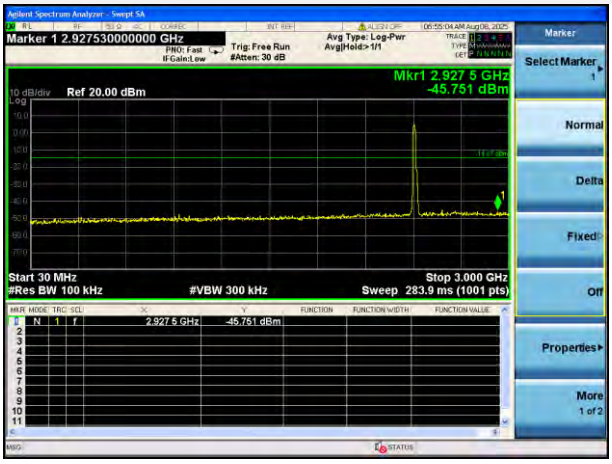
802.11n-40 MHz HIGH CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



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

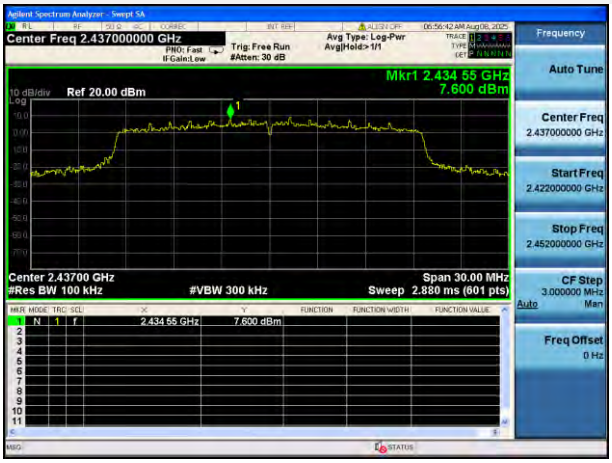
802.11ax-20 MHz(SU) LOW CHANNEL CARRIER LEVEL

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

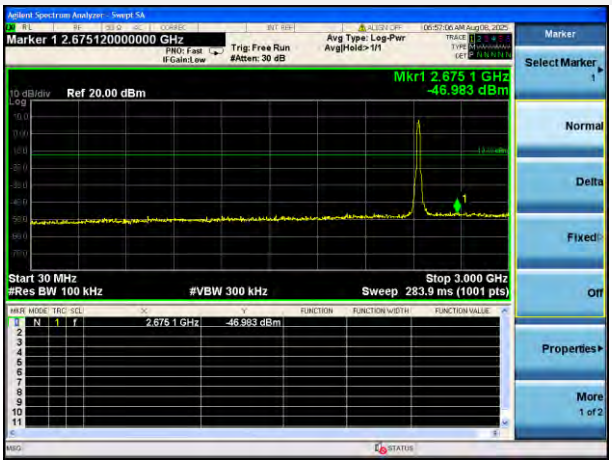


802.11ax-20 MHz(SU) LOW CHANNEL, SPURIOUS 2 GHz ~ 25 GHz

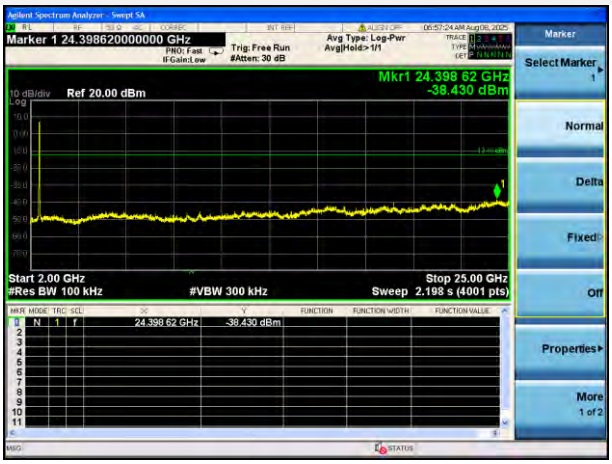
802.11ax-20 MHz(SU) MIDDLE CHANNEL CARRIER LEVEL



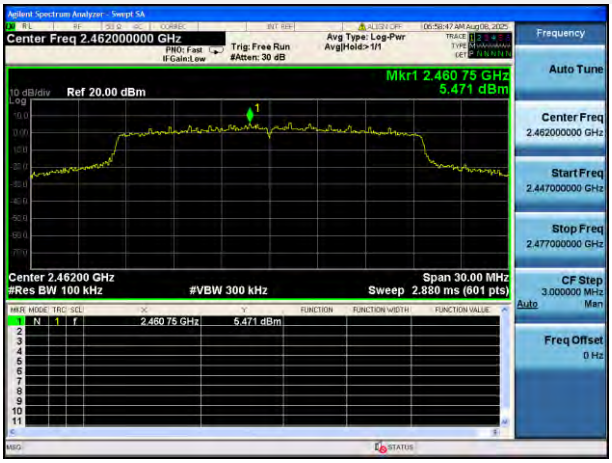
802.11ax-20 MHz(SU) MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



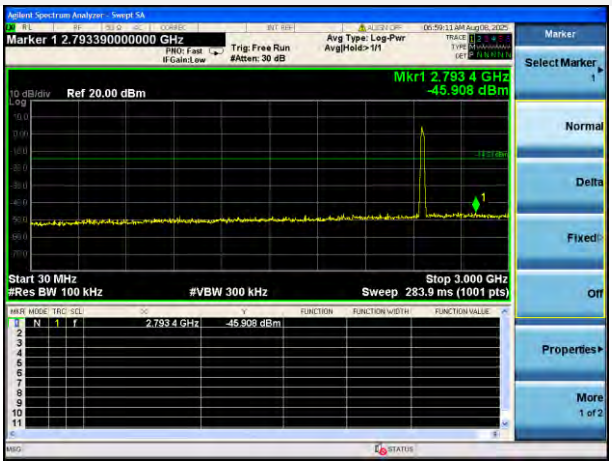
802.11ax-20 MHz(SU) MIDDLE CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



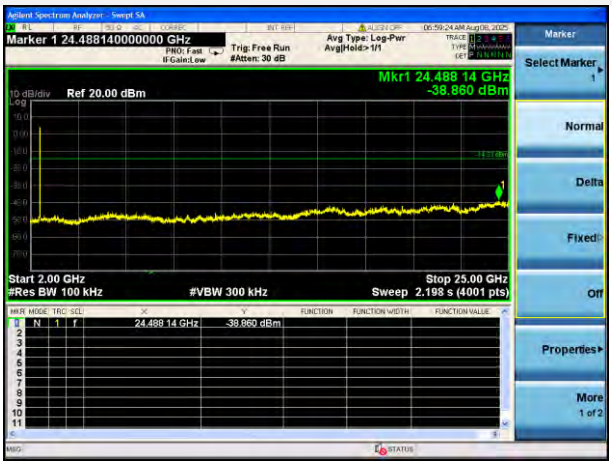
802.11ax-20 MHz(SU) HIGH CHANNEL CARRIER LEVEL



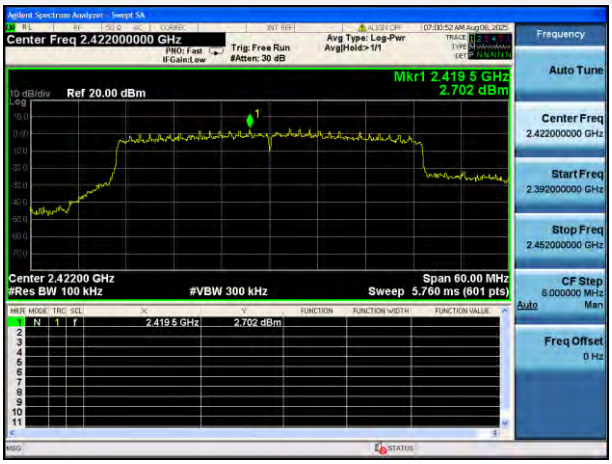
802.11ax-20 MHz(SU) HIGH CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



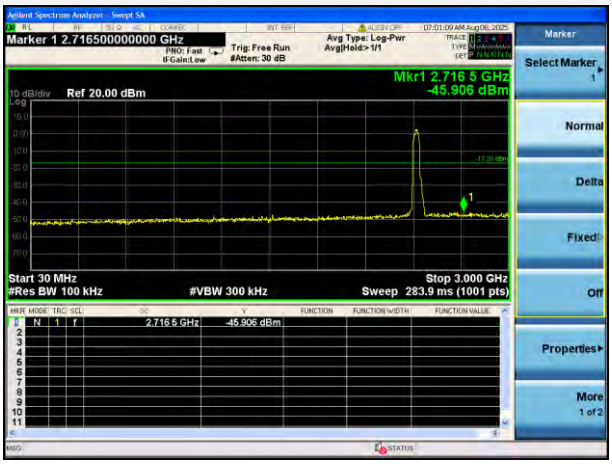
802.11ax-20 MHz(SU) HIGH CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



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

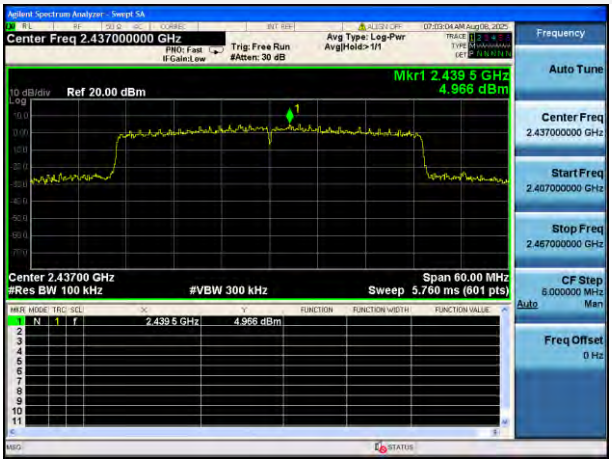


802.11ax-40 MHz(SU) LOW CHANNEL, SPURIOUS 30 MHz ~ 3 GHz

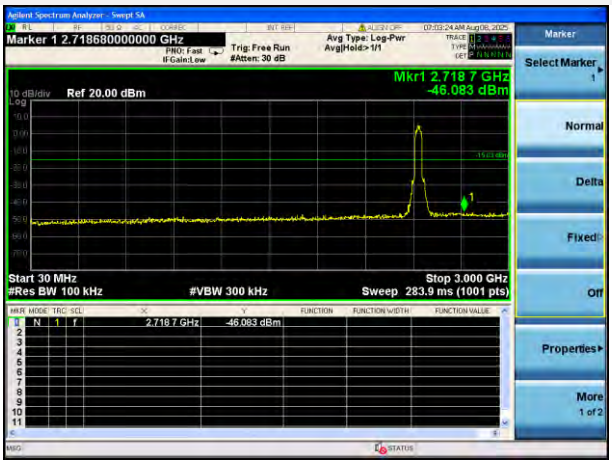


802.11ax-40 MHz(SU) LOW CHANNEL, SPURIOUS 2 GHz ~ 25 GHz

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

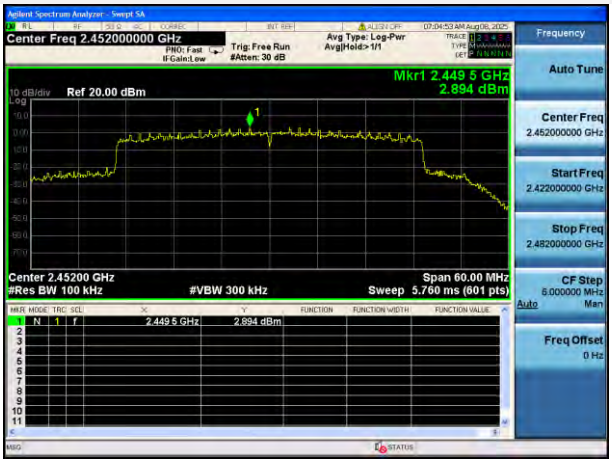


802.11ax-40 MHz(SU) MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz

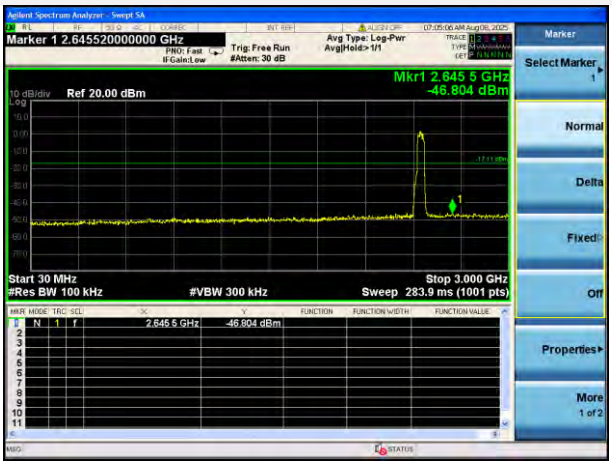


802.11ax-40 MHz(SU) MIDDLE CHANNEL, SPURIOUS 2 GHz ~ 25 GHz

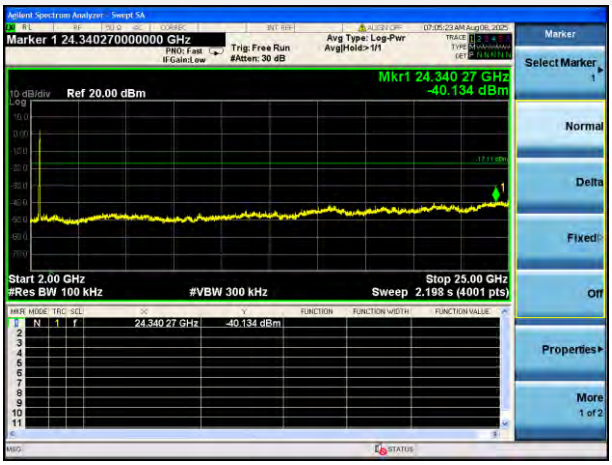
802.11ax-40 MHz(SU) HIGH CHANNEL CARRIER LEVEL



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	-41.69	8.38	-11.62	Pass
High Channel	-48.03	8.36	-11.64	Pass

802.11g Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-21.49	6.62	-13.38	Pass
High Channel	-47.03	6.28	-13.72	Pass

802.11n-20 MHz Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-19.95	9.06	-10.94	Pass
High Channel	-46.98	6.27	-13.73	Pass

802.11n-40 MHz Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-32.18	2.75	-17.25	Pass
High Channel	-46.48	2.77	-17.23	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	-41.19	5.13	-14.87	Pass
High Channel	-47.55	5.47	-14.53	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	-28.05	2.70	-17.30	Pass
High Channel	-42.54	2.89	-17.11	Pass

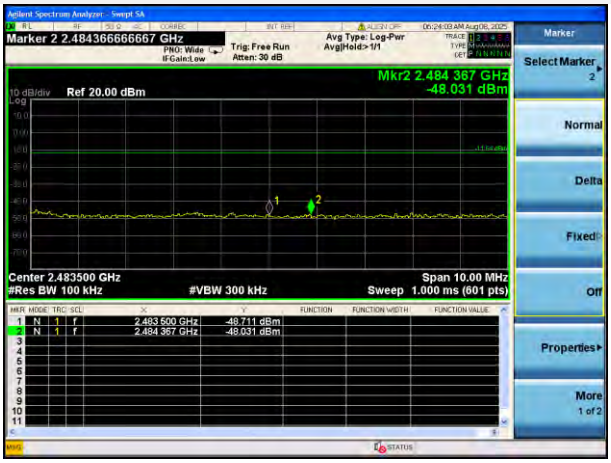
Test Plots

802.11b LOW CHANNEL, CARRIER LEVEL

802.11b LOW CHANNEL, BAND EDGE

802.11b HIGH CHANNEL, CARRIER LEVEL

802.11b HIGH CHANNEL, BAND EDGE

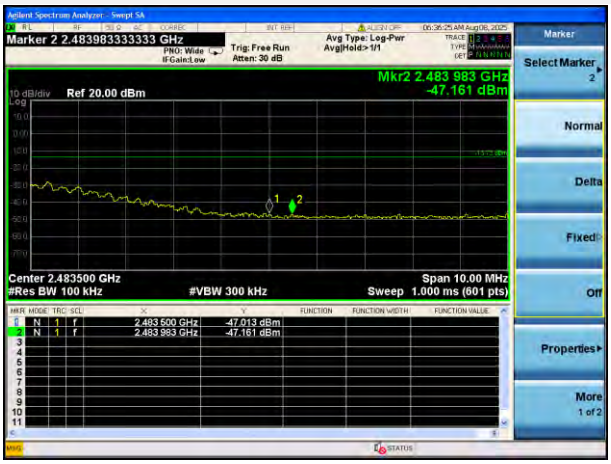


802.11g LOW CHANNEL, CARRIER LEVEL

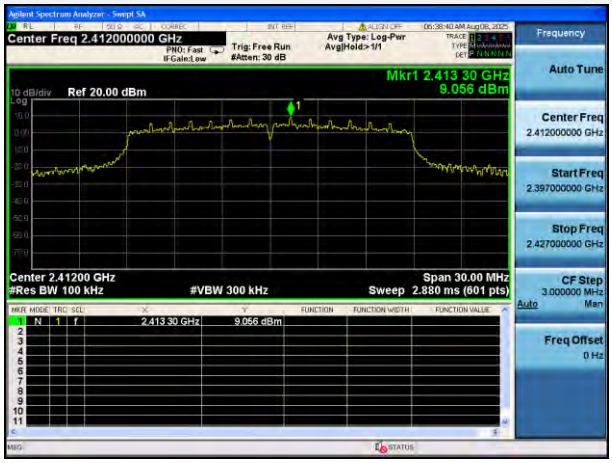
802.11g LOW CHANNEL, BAND EDGE

802.11g HIGH CHANNEL, CARRIER LEVEL

802.11g HIGH CHANNEL, BAND EDGE



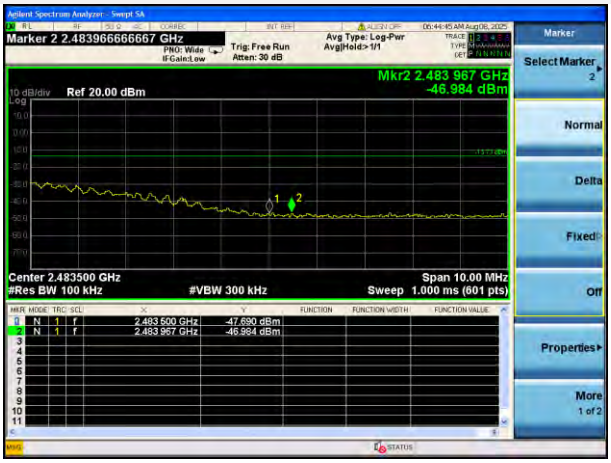
802.11n-20 MHz LOW CHANNEL, CARRIER LEVEL



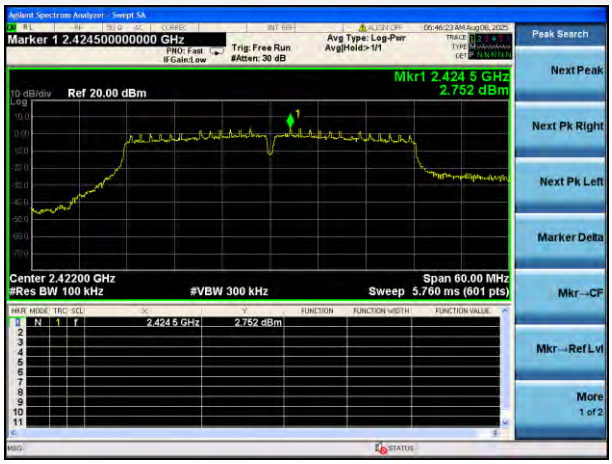
802.11n-20 MHz LOW CHANNEL, BAND EDGE

802.11n-20 MHz HIGH CHANNEL, CARRIER LEVEL

802.11n-20 MHz HIGH CHANNEL, BAND EDGE

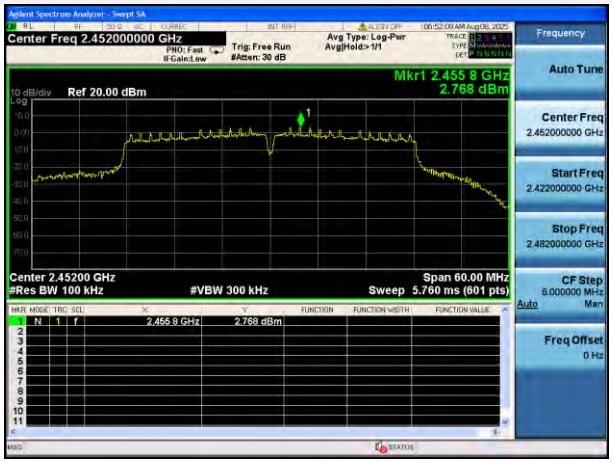


802.11n-40 MHz LOW CHANNEL, CARRIER LEVEL

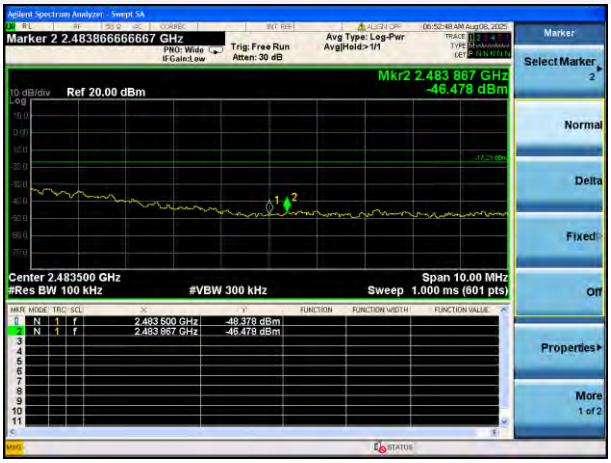


802.11n-40 MHz LOW CHANNEL, BAND EDGE

802.11n-40 MHz HIGH CHANNEL, CARRIER LEVEL

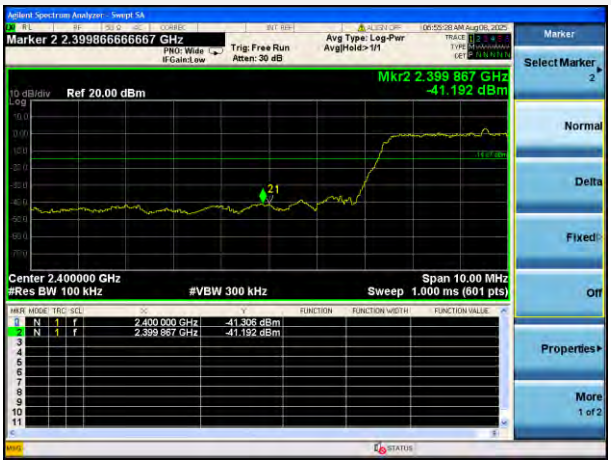


802.11n-40 MHz HIGH CHANNEL, BAND EDGE

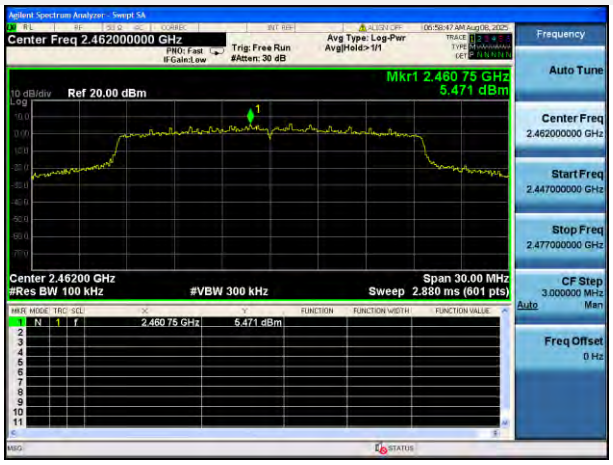


802.11ax-20 MHz(SU) LOW CHANNEL, CARRIER LEVEL

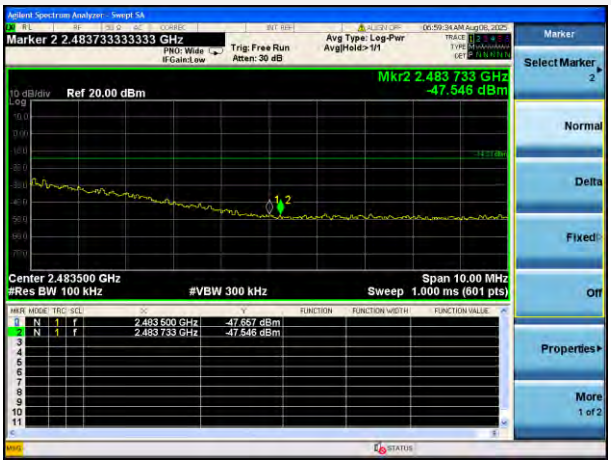
802.11ax-20 MHz(SU) LOW CHANNEL, BAND EDGE



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



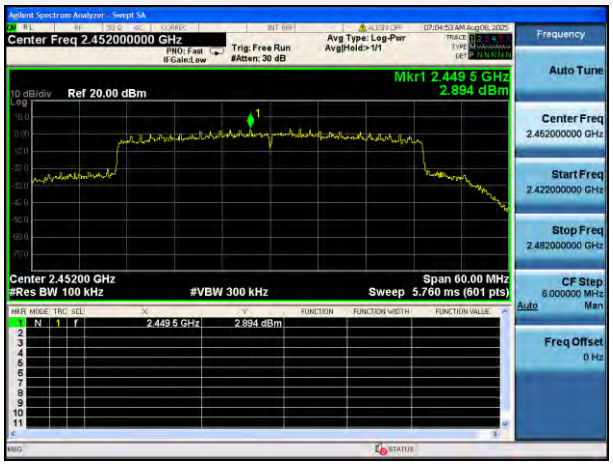
802.11ax-20 MHz(SU) HIGH CHANNEL, BAND EDGE



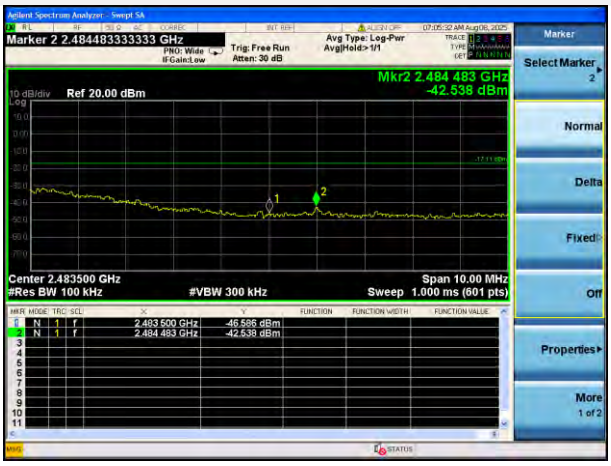
802.11ax-40 MHz(SU) LOW CHANNEL, CARRIER LEVEL

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

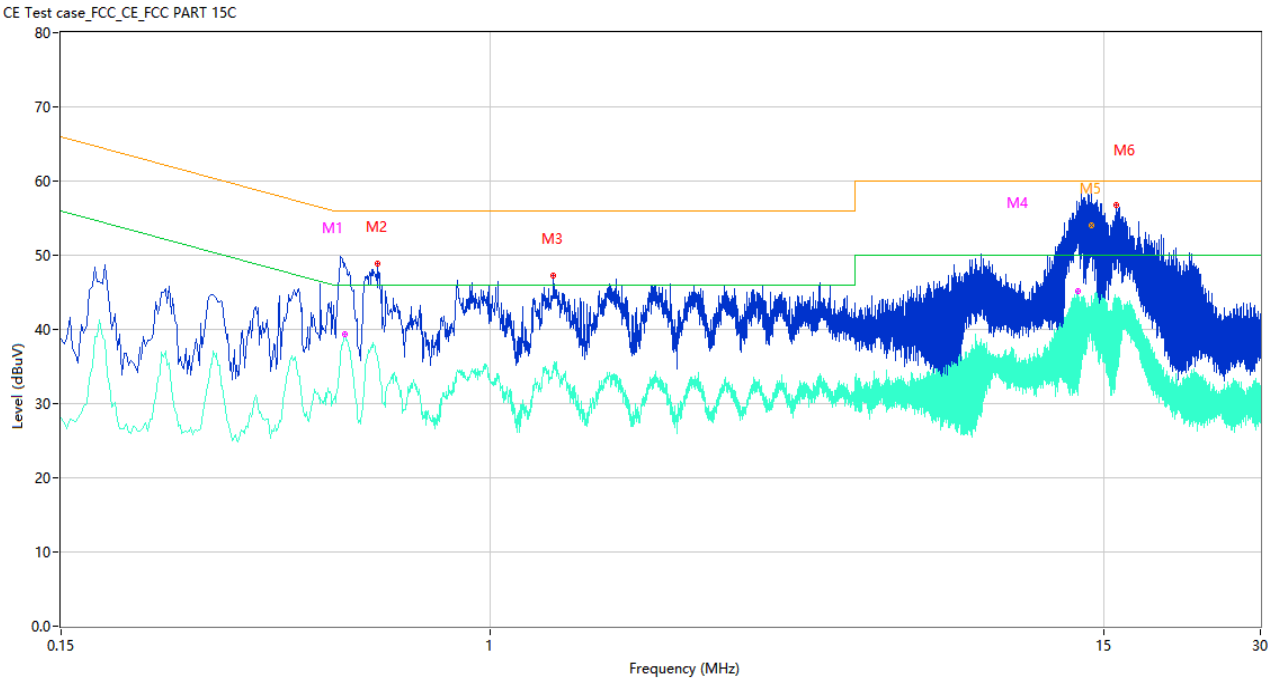
Note [1]: The EUT is working in the Normal link mode. All modes have been tested and normal link mode is worst.

Note [2]: 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.

Note [3]: Results (dBuV) = Original reading level of Spectrum Analyzer (dBuV) + Factor (dB)

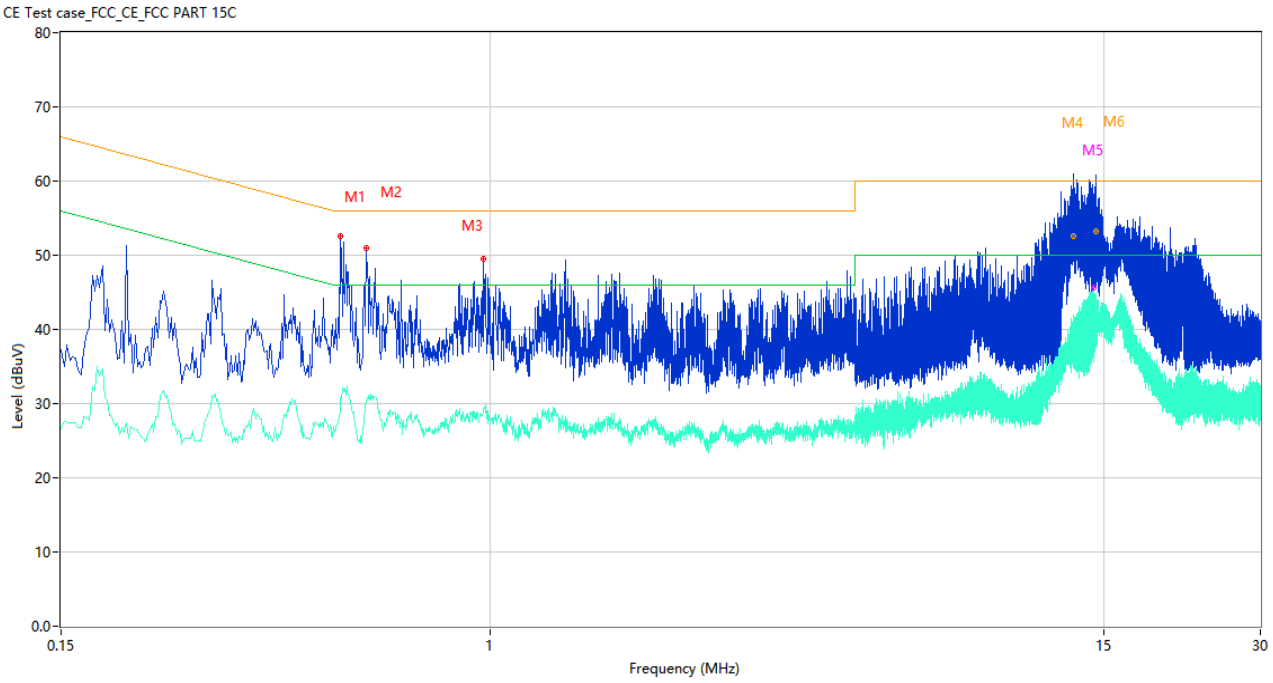
Test Data and Plots

PHASE L



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.526	48.87	10.06	56.00	7.13	Peak	L	Pass
1**	0.526	39.35	10.06	46.00	6.65	AV	L	Pass
2	0.608	48.83	10.23	56.00	7.17	Peak	L	Pass
2**	0.608	36.09	10.23	46.00	9.91	AV	L	Pass
3	1.318	47.18	10.38	56.00	8.82	Peak	L	Pass
3**	1.318	34.70	10.38	46.00	11.30	AV	L	Pass
4	13.372	54.78	10.76	60.00	5.22	Peak	L	Pass
4**	13.372	45.10	10.76	50.00	4.90	AV	L	Pass
5	14.198	60.17	10.81	60.00	-0.17	Peak	L	N/A
5*	14.198	53.99	10.81	60.00	6.01	QP	L	Pass
5**	14.198	42.54	10.81	50.00	7.46	AV	L	Pass
6	15.866	56.70	10.77	60.00	3.30	Peak	L	Pass
6**	15.866	44.25	10.77	50.00	5.75	AV	L	Pass

PHASE N



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.514	52.65	10.05	56.00	3.35	Peak	N	Pass
1**	0.514	28.79	10.05	46.00	17.21	AV	N	Pass
2	0.578	50.93	10.16	56.00	5.07	Peak	N	Pass
2**	0.578	30.08	10.16	46.00	15.92	AV	N	Pass
3	0.970	49.47	10.09	56.00	6.53	Peak	N	Pass
3**	0.970	29.29	10.09	46.00	16.71	AV	N	Pass
4	13.134	61.77	10.63	60.00	-1.77	Peak	N	N/A
4*	13.134	52.64	10.63	60.00	7.36	QP	N	Pass
4**	13.134	36.64	10.63	50.00	13.36	AV	N	Pass
5	14.396	56.52	10.62	60.00	3.48	Peak	N	Pass
5**	14.396	45.70	10.62	50.00	4.30	AV	N	Pass
6	14.520	60.40	10.84	60.00	-0.40	Peak	N	N/A
6*	14.520	53.24	10.84	60.00	6.76	QP	N	Pass
6**	14.520	44.82	10.84	50.00	5.18	AV	N	Pass

A.6 Radiated Emission

Note [1]: The symbol of "--" in the table which means not application.

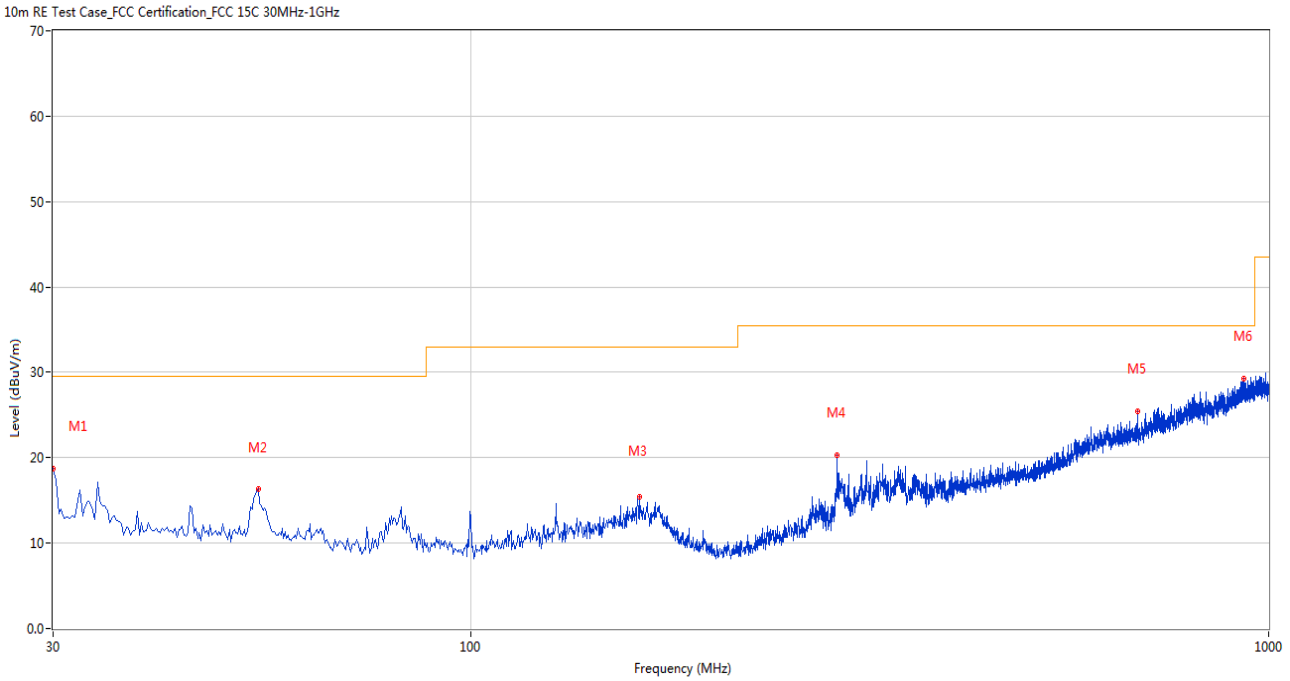
Note [2]: For the test data above 1 GHz，According the ANSI C63.10-2013, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

Note [3]: 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.

Note [4]: The EUT is working in the Normal link mode below 1 GHz. All modes have been tested and normal link mode is worst.

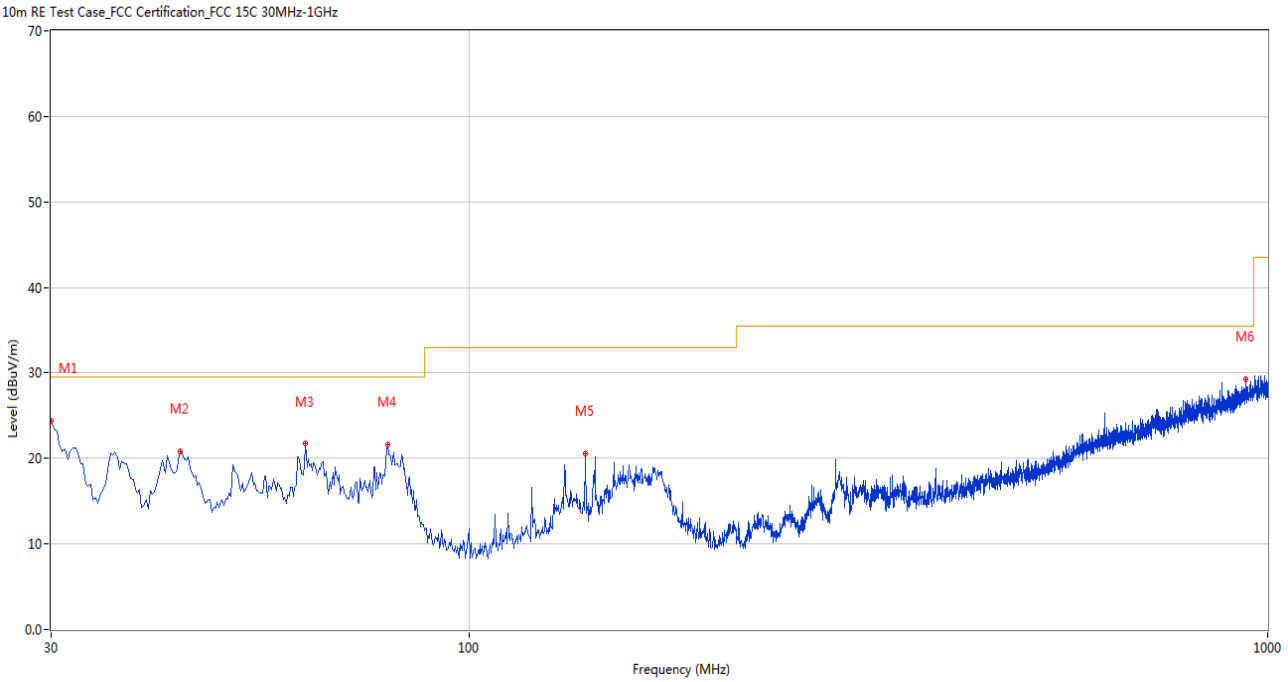
Test Data and Plots

30 MHz to 1 GHz, ANT H



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	30.000	18.70	-26.83	29.5	10.80	Peak	360.00	200	Horizontal	Pass
2	54.244	16.28	-27.10	29.5	13.22	Peak	221.00	100	Horizontal	Pass
3	163.099	15.43	-26.26	33.0	17.57	Peak	285.00	200	Horizontal	Pass
4	287.956	20.28	-25.91	35.5	15.22	Peak	129.00	200	Horizontal	Pass
5	686.283	25.39	-15.43	35.5	10.11	Peak	360.00	200	Horizontal	Pass
6	930.177	29.26	-10.02	35.5	6.24	Peak	77.00	200	Horizontal	Pass

30 MHz to 1 GHz, ANT V



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	30.000	24.35	-26.83	29.5	5.15	Peak	183.00	100	Vertical	Pass
2	43.577	20.80	-26.90	29.5	8.70	Peak	208.00	100	Vertical	Pass
3	62.487	21.72	-27.69	29.5	7.78	Peak	134.00	100	Vertical	Pass
4	79.215	21.68	-29.95	29.5	7.82	Peak	174.00	200	Vertical	Pass
5	139.825	20.61	-26.78	33.0	12.39	Peak	316.00	200	Vertical	Pass
6	940.117	29.30	-9.87	35.5	6.20	Peak	332.00	100	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	1333.538	47.43	74.0	26.57	Peak	176.00	200	Horizontal	Pass
1**	1333.538	35.95	54.0	18.05	AV	176.00	200	Horizontal	Pass
2	2998.140	48.42	74.0	25.58	Peak	332.00	300	Horizontal	Pass
2**	2998.140	41.18	54.0	12.82	AV	332.00	300	Horizontal	Pass
3	4932.922	53.78	74.0	20.22	Peak	312.00	200	Horizontal	Pass
3**	4932.922	43.69	54.0	10.31	AV	312.00	200	Horizontal	Pass
4	6806.320	52.01	74.0	21.99	Peak	229.00	400	Horizontal	Pass
4**	6806.320	46.60	54.0	7.40	AV	229.00	400	Horizontal	Pass
5	13411.894	55.86	74.0	18.14	Peak	44.00	100	Horizontal	Pass
5**	13411.894	46.21	54.0	7.79	AV	44.00	100	Horizontal	Pass
6	17423.439	56.38	74.0	17.62	Peak	274.00	100	Horizontal	Pass
6**	17423.439	44.66	54.0	9.34	AV	274.00	100	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	1335.291	45.78	74.0	28.22	Peak	14.00	100	Vertical	Pass
1**	1335.291	39.14	54.0	14.86	AV	14.00	100	Vertical	Pass
2	2982.571	52.88	74.0	21.12	Peak	351.00	400	Vertical	Pass
2**	2982.571	41.20	54.0	12.80	AV	351.00	400	Vertical	Pass
3	4855.275	51.78	74.0	22.22	Peak	245.00	200	Vertical	Pass
3**	4855.275	38.34	54.0	15.66	AV	245.00	200	Vertical	Pass
4	6605.011	53.95	74.0	20.05	Peak	244.00	400	Vertical	Pass
4**	6605.011	42.56	54.0	11.44	AV	244.00	400	Vertical	Pass
5	13438.714	56.53	74.0	17.47	Peak	192.00	200	Vertical	Pass
5**	13438.714	47.58	54.0	6.42	AV	192.00	200	Vertical	Pass
6	17419.905	56.80	74.0	17.20	Peak	59.00	300	Vertical	Pass
6**	17419.905	46.94	54.0	7.06	AV	59.00	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	1328.206	43.34	74.0	30.66	Peak	188.00	300	Horizontal	Pass
1**	1328.206	34.64	54.0	19.36	AV	188.00	300	Horizontal	Pass
2	2995.814	50.05	74.0	23.95	Peak	281.00	100	Horizontal	Pass
2**	2995.814	43.23	54.0	10.77	AV	281.00	100	Horizontal	Pass
3	4937.506	51.45	74.0	22.55	Peak	68.00	200	Horizontal	Pass
3**	4937.506	40.27	54.0	13.73	AV	68.00	200	Horizontal	Pass
4	6803.190	55.05	74.0	18.95	Peak	38.00	200	Horizontal	Pass
4**	6803.190	44.26	54.0	9.74	AV	38.00	200	Horizontal	Pass
5	13407.332	52.69	74.0	21.31	Peak	63.00	400	Horizontal	Pass
5**	13407.332	44.53	54.0	9.47	AV	63.00	400	Horizontal	Pass
6	17428.057	55.10	74.0	18.90	Peak	321.00	200	Horizontal	Pass
6**	17428.057	49.36	54.0	4.64	AV	321.00	200	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1335.965	42.52	74.0	31.48	Peak	139.00	200	Vertical	Pass
1**	1335.965	37.02	54.0	16.98	AV	139.00	200	Vertical	Pass
2	2983.729	53.17	74.0	20.83	Peak	298.00	200	Vertical	Pass
2**	2983.729	43.44	54.0	10.56	AV	298.00	200	Vertical	Pass
3	4857.029	49.58	74.0	24.42	Peak	20.00	200	Vertical	Pass
3**	4857.029	38.36	54.0	15.64	AV	20.00	200	Vertical	Pass
4	6609.412	55.56	74.0	18.44	Peak	193.00	200	Vertical	Pass
4**	6609.412	46.54	54.0	7.46	AV	193.00	200	Vertical	Pass
5	13434.676	53.38	74.0	20.62	Peak	172.00	300	Vertical	Pass
5**	13434.676	47.23	54.0	6.77	AV	172.00	300	Vertical	Pass
6	17419.589	57.21	74.0	16.79	Peak	140.00	200	Vertical	Pass
6**	17419.589	47.08	54.0	6.92	AV	140.00	200	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	1332.522	46.21	74.0	27.79	Peak	20.00	400	Horizontal	Pass
1**	1332.522	34.61	54.0	19.39	AV	20.00	400	Horizontal	Pass
2	2996.046	52.93	74.0	21.07	Peak	338.00	100	Horizontal	Pass
2**	2996.046	43.22	54.0	10.78	AV	338.00	100	Horizontal	Pass
3	4936.122	50.16	74.0	23.84	Peak	92.00	200	Horizontal	Pass
3**	4936.122	39.86	54.0	14.14	AV	92.00	200	Horizontal	Pass
4	6805.372	56.50	74.0	17.50	Peak	188.00	300	Horizontal	Pass
4**	6805.372	46.54	54.0	7.46	AV	188.00	300	Horizontal	Pass
5	13411.089	55.61	74.0	18.39	Peak	106.00	100	Horizontal	Pass
5**	13411.089	47.41	54.0	6.59	AV	106.00	100	Horizontal	Pass
6	17424.004	56.67	74.0	17.33	Peak	266.00	300	Horizontal	Pass
6**	17424.004	46.27	54.0	7.73	AV	266.00	300	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	1331.556	42.51	74.0	31.49	Peak	18.00	400	Vertical	Pass
1**	1331.556	36.65	54.0	17.35	AV	18.00	400	Vertical	Pass
2	2982.950	49.16	74.0	24.84	Peak	77.00	100	Vertical	Pass
2**	2982.950	39.69	54.0	14.31	AV	77.00	100	Vertical	Pass
3	4853.394	47.41	74.0	26.59	Peak	193.00	200	Vertical	Pass
3**	4853.394	42.65	54.0	11.35	AV	193.00	200	Vertical	Pass
4	6606.266	53.26	74.0	20.74	Peak	168.00	100	Vertical	Pass
4**	6606.266	48.05	54.0	5.95	AV	168.00	100	Vertical	Pass
5	13436.740	54.53	74.0	19.47	Peak	41.00	400	Vertical	Pass
5**	13436.740	47.75	54.0	6.25	AV	41.00	400	Vertical	Pass
6	17415.600	57.95	74.0	16.05	Peak	292.00	100	Vertical	Pass
6**	17415.600	46.03	54.0	7.97	AV	292.00	100	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1327.918	42.34	74.0	31.66	Peak	73.00	100	Horizontal	Pass
1**	1327.918	38.85	54.0	15.15	AV	73.00	100	Horizontal	Pass
2	3000.406	51.06	74.0	22.94	Peak	40.00	200	Horizontal	Pass
2**	3000.406	38.45	54.0	15.55	AV	40.00	200	Horizontal	Pass
3	4931.479	52.28	74.0	21.72	Peak	147.00	200	Horizontal	Pass
3**	4931.479	39.67	54.0	14.33	AV	147.00	200	Horizontal	Pass
4	6810.582	51.75	74.0	22.25	Peak	126.00	100	Horizontal	Pass
4**	6810.582	45.62	54.0	8.38	AV	126.00	100	Horizontal	Pass
5	13413.484	54.84	74.0	19.16	Peak	27.00	400	Horizontal	Pass
5**	13413.484	46.58	54.0	7.42	AV	27.00	400	Horizontal	Pass
6	17425.547	54.06	74.0	19.94	Peak	59.00	100	Horizontal	Pass
6**	17425.547	44.59	54.0	9.41	AV	59.00	100	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	1332.757	43.13	74.0	30.87	Peak	311.00	400	Vertical	Pass
1**	1332.757	40.66	54.0	13.34	AV	311.00	400	Vertical	Pass
2	2980.286	51.30	74.0	22.70	Peak	221.00	200	Vertical	Pass
2**	2980.286	41.46	54.0	12.54	AV	221.00	200	Vertical	Pass
3	4858.098	49.71	74.0	24.29	Peak	315.00	200	Vertical	Pass
3**	4858.098	39.11	54.0	14.89	AV	315.00	200	Vertical	Pass
4	6606.003	53.04	74.0	20.96	Peak	318.00	100	Vertical	Pass
4**	6606.003	47.11	54.0	6.89	AV	318.00	100	Vertical	Pass
5	13432.230	56.39	74.0	17.61	Peak	216.00	400	Vertical	Pass
5**	13432.230	46.08	54.0	7.92	AV	216.00	400	Vertical	Pass
6	17418.517	58.96	74.0	15.04	Peak	277.00	200	Vertical	Pass
6**	17418.517	48.03	54.0	5.97	AV	277.00	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	1330.925	42.15	74.0	31.85	Peak	357.00	300	Horizontal	Pass
1**	1330.925	39.76	54.0	14.24	AV	357.00	300	Horizontal	Pass
2	2999.280	47.97	74.0	26.03	Peak	297.00	400	Horizontal	Pass
2**	2999.280	43.45	54.0	10.55	AV	297.00	400	Horizontal	Pass
3	4930.729	49.75	74.0	24.25	Peak	292.00	200	Horizontal	Pass
3**	4930.729	39.41	54.0	14.59	AV	292.00	200	Horizontal	Pass
4	6804.662	55.13	74.0	18.87	Peak	343.00	200	Horizontal	Pass
4**	6804.662	43.06	54.0	10.94	AV	343.00	200	Horizontal	Pass
5	13408.943	53.87	74.0	20.13	Peak	228.00	400	Horizontal	Pass
5**	13408.943	47.00	54.0	7.00	AV	228.00	400	Horizontal	Pass
6	17425.453	55.21	74.0	18.79	Peak	120.00	100	Horizontal	Pass
6**	17425.453	45.27	54.0	8.73	AV	120.00	100	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1336.221	44.58	74.0	29.42	Peak	146.00	400	Vertical	Pass
1**	1336.221	35.15	54.0	18.85	AV	146.00	400	Vertical	Pass
2	2980.089	47.52	74.0	26.48	Peak	219.00	100	Vertical	Pass
2**	2980.089	39.90	54.0	14.10	AV	219.00	100	Vertical	Pass
3	4850.437	52.41	74.0	21.59	Peak	266.00	200	Vertical	Pass
3**	4850.437	43.61	54.0	10.39	AV	266.00	200	Vertical	Pass
4	6606.838	55.60	74.0	18.40	Peak	280.00	400	Vertical	Pass
4**	6606.838	44.50	54.0	9.50	AV	280.00	400	Vertical	Pass
5	13436.854	55.17	74.0	18.83	Peak	143.00	300	Vertical	Pass
5**	13436.854	44.93	54.0	9.07	AV	143.00	300	Vertical	Pass
6	17419.498	58.65	74.0	15.35	Peak	294.00	200	Vertical	Pass
6**	17419.498	44.75	54.0	9.25	AV	294.00	200	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	1333.515	46.99	74.0	27.01	Peak	26.00	400	Horizontal	Pass
1**	1333.515	37.54	54.0	16.46	AV	26.00	400	Horizontal	Pass
2	2994.333	47.68	74.0	26.32	Peak	120.00	100	Horizontal	Pass
2**	2994.333	39.74	54.0	14.26	AV	120.00	100	Horizontal	Pass
3	4936.803	49.10	74.0	24.90	Peak	327.00	200	Horizontal	Pass
3**	4936.803	39.61	54.0	14.39	AV	327.00	200	Horizontal	Pass
4	6807.062	54.32	74.0	19.68	Peak	240.00	100	Horizontal	Pass
4**	6807.062	45.49	54.0	8.51	AV	240.00	100	Horizontal	Pass
5	13408.380	57.55	74.0	16.45	Peak	315.00	400	Horizontal	Pass
5**	13408.380	49.10	54.0	4.90	AV	315.00	400	Horizontal	Pass
6	17427.667	57.59	74.0	16.41	Peak	128.00	300	Horizontal	Pass
6**	17427.667	49.91	54.0	4.09	AV	128.00	300	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1330.773	45.34	74.0	28.66	Peak	155.00	400	Vertical	Pass
1**	1330.773	39.33	54.0	14.67	AV	155.00	400	Vertical	Pass
2	2978.993	51.35	74.0	22.65	Peak	194.00	300	Vertical	Pass
2**	2978.993	43.89	54.0	10.11	AV	194.00	300	Vertical	Pass
3	4854.795	50.88	74.0	23.12	Peak	126.00	200	Vertical	Pass
3**	4854.795	37.78	54.0	16.22	AV	126.00	200	Vertical	Pass
4	6606.968	57.11	74.0	16.89	Peak	194.00	400	Vertical	Pass
4**	6606.968	44.75	54.0	9.25	AV	194.00	400	Vertical	Pass
5	13435.237	55.09	74.0	18.91	Peak	172.00	100	Vertical	Pass
5**	13435.237	47.47	54.0	6.53	AV	172.00	100	Vertical	Pass
6	17413.956	60.16	74.0	13.84	Peak	239.00	400	Vertical	Pass
6**	17413.956	46.27	54.0	7.73	AV	239.00	400	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	1328.280	43.09	74.0	30.91	Peak	356.00	400	Horizontal	Pass
1**	1328.280	39.26	54.0	14.74	AV	356.00	400	Horizontal	Pass
2	2992.779	48.99	74.0	25.01	Peak	319.00	200	Horizontal	Pass
2**	2992.779	41.74	54.0	12.26	AV	319.00	200	Horizontal	Pass
3	4935.291	49.14	74.0	24.86	Peak	116.00	200	Horizontal	Pass
3**	4935.291	43.46	54.0	10.54	AV	116.00	200	Horizontal	Pass
4	6804.219	56.04	74.0	17.96	Peak	133.00	100	Horizontal	Pass
4**	6804.219	42.51	54.0	11.49	AV	133.00	100	Horizontal	Pass
5	13407.664	58.21	74.0	15.79	Peak	113.00	400	Horizontal	Pass
5**	13407.664	46.33	54.0	7.67	AV	113.00	400	Horizontal	Pass
6	17422.814	58.17	74.0	15.83	Peak	282.00	100	Horizontal	Pass
6**	17422.814	50.15	54.0	3.85	AV	282.00	100	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	1332.370	44.31	74.0	29.69	Peak	37.00	400	Vertical	Pass
1**	1332.370	37.46	54.0	16.54	AV	37.00	400	Vertical	Pass
2	2983.761	52.62	74.0	21.38	Peak	54.00	200	Vertical	Pass
2**	2983.761	42.41	54.0	11.59	AV	54.00	200	Vertical	Pass
3	4855.920	48.85	74.0	25.15	Peak	168.00	200	Vertical	Pass
3**	4855.920	40.71	54.0	13.29	AV	168.00	200	Vertical	Pass
4	6605.872	53.42	74.0	20.58	Peak	29.00	400	Vertical	Pass
4**	6605.872	47.33	54.0	6.67	AV	29.00	400	Vertical	Pass
5	13438.551	55.39	74.0	18.61	Peak	328.00	300	Vertical	Pass
5**	13438.551	48.33	54.0	5.67	AV	328.00	300	Vertical	Pass
6	17415.483	59.12	74.0	14.88	Peak	65.00	300	Vertical	Pass
6**	17415.483	47.28	54.0	6.72	AV	65.00	300	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	1331.145	41.64	74.0	32.36	Peak	226.00	300	Horizontal	Pass
1**	1331.145	35.42	54.0	18.58	AV	226.00	300	Horizontal	Pass
2	2993.631	47.91	74.0	26.09	Peak	224.00	400	Horizontal	Pass
2**	2993.631	42.68	54.0	11.32	AV	224.00	400	Horizontal	Pass
3	4933.602	50.17	74.0	23.83	Peak	126.00	200	Horizontal	Pass
3**	4933.602	40.42	54.0	13.58	AV	126.00	200	Horizontal	Pass
4	6808.074	56.96	74.0	17.04	Peak	213.00	200	Horizontal	Pass
4**	6808.074	41.85	54.0	12.15	AV	213.00	200	Horizontal	Pass
5	13412.823	53.52	74.0	20.48	Peak	245.00	200	Horizontal	Pass
5**	13412.823	43.98	54.0	10.02	AV	245.00	200	Horizontal	Pass
6	17427.805	53.58	74.0	20.42	Peak	197.00	400	Horizontal	Pass
6**	17427.805	49.85	54.0	4.15	AV	197.00	400	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1334.321	43.32	74.0	30.68	Peak	259.00	400	Vertical	Pass
1**	1334.321	37.52	54.0	16.48	AV	259.00	400	Vertical	Pass
2	2980.932	52.27	74.0	21.73	Peak	209.00	100	Vertical	Pass
2**	2980.932	39.46	54.0	14.54	AV	209.00	100	Vertical	Pass
3	4857.061	47.28	74.0	26.72	Peak	208.00	200	Vertical	Pass
3**	4857.061	40.46	54.0	13.54	AV	208.00	200	Vertical	Pass
4	6603.683	51.57	74.0	22.43	Peak	254.00	200	Vertical	Pass
4**	6603.683	47.39	54.0	6.61	AV	254.00	200	Vertical	Pass
5	13438.841	54.61	74.0	19.39	Peak	27.00	200	Vertical	Pass
5**	13438.841	48.54	54.0	5.46	AV	27.00	200	Vertical	Pass
6	17418.471	59.67	74.0	14.33	Peak	99.00	100	Vertical	Pass
6**	17418.471	47.61	54.0	6.39	AV	99.00	100	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	1331.603	43.80	74.0	30.20	Peak	261.00	300	Horizontal	Pass
1**	1331.603	37.85	54.0	16.15	AV	261.00	300	Horizontal	Pass
2	2995.817	49.62	74.0	24.38	Peak	143.00	100	Horizontal	Pass
2**	2995.817	39.43	54.0	14.57	AV	143.00	100	Horizontal	Pass
3	4937.712	52.82	74.0	21.18	Peak	108.00	200	Horizontal	Pass
3**	4937.712	43.04	54.0	10.96	AV	108.00	200	Horizontal	Pass
4	6804.296	56.39	74.0	17.61	Peak	67.00	400	Horizontal	Pass
4**	6804.296	42.86	54.0	11.14	AV	67.00	400	Horizontal	Pass
5	13410.696	55.74	74.0	18.26	Peak	149.00	100	Horizontal	Pass
5**	13410.696	47.30	54.0	6.70	AV	149.00	100	Horizontal	Pass
6	17422.395	54.80	74.0	19.20	Peak	304.00	400	Horizontal	Pass
6**	17422.395	46.31	54.0	7.69	AV	304.00	400	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1329.862	47.55	74.0	26.45	Peak	221.00	100	Vertical	Pass
1**	1329.862	38.42	54.0	15.58	AV	221.00	100	Vertical	Pass
2	2979.615	48.58	74.0	25.42	Peak	283.00	400	Vertical	Pass
2**	2979.615	40.65	54.0	13.35	AV	283.00	400	Vertical	Pass
3	4854.087	49.60	74.0	24.40	Peak	137.00	200	Vertical	Pass
3**	4854.087	41.64	54.0	12.36	AV	137.00	200	Vertical	Pass
4	6605.123	53.22	74.0	20.78	Peak	174.00	100	Vertical	Pass
4**	6605.123	44.84	54.0	9.16	AV	174.00	100	Vertical	Pass
5	13436.639	57.63	74.0	16.37	Peak	55.00	300	Vertical	Pass
5**	13436.639	43.58	54.0	10.42	AV	55.00	300	Vertical	Pass
6	17416.303	54.17	74.0	19.83	Peak	16.00	300	Vertical	Pass
6**	17416.303	47.88	54.0	6.12	AV	16.00	300	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1327.524	41.69	74.0	32.31	Peak	189.00	300	Horizontal	Pass
1**	1327.524	35.50	54.0	18.50	AV	189.00	300	Horizontal	Pass
2	2998.002	50.42	74.0	23.58	Peak	111.00	200	Horizontal	Pass
2**	2998.002	43.11	54.0	10.89	AV	111.00	200	Horizontal	Pass
3	4934.753	49.31	74.0	24.69	Peak	275.00	200	Horizontal	Pass
3**	4934.753	44.10	54.0	9.90	AV	275.00	200	Horizontal	Pass
4	6804.798	52.35	74.0	21.65	Peak	269.00	400	Horizontal	Pass
4**	6804.798	43.23	54.0	10.77	AV	269.00	400	Horizontal	Pass
5	13409.299	52.70	74.0	21.30	Peak	91.00	100	Horizontal	Pass
5**	13409.299	47.92	54.0	6.08	AV	91.00	100	Horizontal	Pass
6	17428.623	57.55	74.0	16.45	Peak	348.00	100	Horizontal	Pass
6**	17428.623	45.48	54.0	8.52	AV	348.00	100	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1332.904	47.85	74.0	26.15	Peak	303.00	400	Vertical	Pass
1**	1332.904	38.10	54.0	15.90	AV	303.00	400	Vertical	Pass
2	2984.992	47.66	74.0	26.34	Peak	228.00	200	Vertical	Pass
2**	2984.992	38.87	54.0	15.13	AV	228.00	200	Vertical	Pass
3	4850.905	50.37	74.0	23.63	Peak	201.00	200	Vertical	Pass
3**	4850.905	41.24	54.0	12.76	AV	201.00	200	Vertical	Pass
4	6605.168	56.20	74.0	17.80	Peak	292.00	100	Vertical	Pass
4**	6605.168	44.01	54.0	9.99	AV	292.00	100	Vertical	Pass
5	13432.014	55.60	74.0	18.40	Peak	276.00	300	Vertical	Pass
5**	13432.014	45.82	54.0	8.18	AV	276.00	300	Vertical	Pass
6	17417.596	55.69	74.0	18.31	Peak	0.00	100	Vertical	Pass
6**	17417.596	46.80	54.0	7.20	AV	0.00	100	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	1330.566	43.97	74.0	30.03	Peak	261.00	400	Horizontal	Pass
1**	1330.566	34.92	54.0	19.08	AV	261.00	400	Horizontal	Pass
2	2994.719	49.15	74.0	24.85	Peak	322.00	200	Horizontal	Pass
2**	2994.719	43.97	54.0	10.03	AV	322.00	200	Horizontal	Pass
3	4933.370	49.36	74.0	24.64	Peak	124.00	200	Horizontal	Pass
3**	4933.370	40.76	54.0	13.24	AV	124.00	200	Horizontal	Pass
4	6805.667	55.50	74.0	18.50	Peak	155.00	400	Horizontal	Pass
4**	6805.667	47.60	54.0	6.40	AV	155.00	400	Horizontal	Pass
5	13411.885	53.78	74.0	20.22	Peak	92.00	300	Horizontal	Pass
5**	13411.885	46.29	54.0	7.71	AV	92.00	300	Horizontal	Pass
6	17427.821	53.19	74.0	20.81	Peak	160.00	400	Horizontal	Pass
6**	17427.821	49.98	54.0	4.02	AV	160.00	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	1331.890	44.21	74.0	29.79	Peak	101.00	300	Vertical	Pass
1**	1331.890	37.17	54.0	16.83	AV	101.00	300	Vertical	Pass
2	2980.075	48.54	74.0	25.46	Peak	148.00	300	Vertical	Pass
2**	2980.075	41.02	54.0	12.98	AV	148.00	300	Vertical	Pass
3	4857.263	50.42	74.0	23.58	Peak	317.00	200	Vertical	Pass
3**	4857.263	41.97	54.0	12.03	AV	317.00	200	Vertical	Pass
4	6607.799	52.90	74.0	21.10	Peak	100.00	100	Vertical	Pass
4**	6607.799	44.48	54.0	9.52	AV	100.00	100	Vertical	Pass
5	13436.860	52.62	74.0	21.38	Peak	163.00	300	Vertical	Pass
5**	13436.860	43.51	54.0	10.49	AV	163.00	300	Vertical	Pass
6	17413.828	58.08	74.0	15.92	Peak	245.00	100	Vertical	Pass
6**	17413.828	49.38	54.0	4.62	AV	245.00	100	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1328.316	45.83	74.0	28.17	Peak	29.00	100	Horizontal	Pass
1**	1328.316	36.16	54.0	17.84	AV	29.00	100	Horizontal	Pass
2	2993.391	47.87	74.0	26.13	Peak	217.00	200	Horizontal	Pass
2**	2993.391	41.42	54.0	12.58	AV	217.00	200	Horizontal	Pass
3	4937.668	52.38	74.0	21.62	Peak	196.00	200	Horizontal	Pass
3**	4937.668	40.23	54.0	13.77	AV	196.00	200	Horizontal	Pass
4	6803.944	51.66	74.0	22.34	Peak	254.00	200	Horizontal	Pass
4**	6803.944	46.08	54.0	7.92	AV	254.00	200	Horizontal	Pass
5	13410.008	56.43	74.0	17.57	Peak	2.00	100	Horizontal	Pass
5**	13410.008	48.61	54.0	5.39	AV	2.00	100	Horizontal	Pass
6	17429.717	57.39	74.0	16.61	Peak	207.00	400	Horizontal	Pass
6**	17429.717	47.55	54.0	6.45	AV	207.00	400	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	1335.813	42.27	74.0	31.73	Peak	234.00	300	Vertical	Pass
1**	1335.813	38.76	54.0	15.24	AV	234.00	300	Vertical	Pass
2	2983.517	53.25	74.0	20.75	Peak	153.00	200	Vertical	Pass
2**	2983.517	44.03	54.0	9.97	AV	153.00	200	Vertical	Pass
3	4856.814	47.46	74.0	26.54	Peak	178.00	200	Vertical	Pass
3**	4856.814	38.61	54.0	15.39	AV	178.00	200	Vertical	Pass
4	6610.527	53.42	74.0	20.58	Peak	42.00	200	Vertical	Pass
4**	6610.527	45.76	54.0	8.24	AV	42.00	200	Vertical	Pass
5	13436.004	57.52	74.0	16.48	Peak	342.00	300	Vertical	Pass
5**	13436.004	48.85	54.0	5.15	AV	342.00	300	Vertical	Pass
6	17414.312	54.70	74.0	19.30	Peak	294.00	200	Vertical	Pass
6**	17414.312	49.79	54.0	4.21	AV	294.00	200	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	1325.715	43.05	74.0	30.95	Peak	267.00	100	Horizontal	Pass
1**	1325.715	35.35	54.0	18.65	AV	267.00	100	Horizontal	Pass
2	2999.989	51.26	74.0	22.74	Peak	277.00	300	Horizontal	Pass
2**	2999.989	39.42	54.0	14.58	AV	277.00	300	Horizontal	Pass
3	4935.694	52.87	74.0	21.13	Peak	296.00	200	Horizontal	Pass
3**	4935.694	42.18	54.0	11.82	AV	296.00	200	Horizontal	Pass
4	6806.873	56.03	74.0	17.97	Peak	151.00	200	Horizontal	Pass
4**	6806.873	46.81	54.0	7.19	AV	151.00	200	Horizontal	Pass
5	13410.020	55.05	74.0	18.95	Peak	322.00	200	Horizontal	Pass
5**	13410.020	43.70	54.0	10.30	AV	322.00	200	Horizontal	Pass
6	17429.422	57.20	74.0	16.80	Peak	247.00	100	Horizontal	Pass
6**	17429.422	44.92	54.0	9.08	AV	247.00	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	1329.009	47.34	74.0	26.66	Peak	166.00	400	Vertical	Pass
1**	1329.009	36.20	54.0	17.80	AV	166.00	400	Vertical	Pass
2	2980.875	51.35	74.0	22.65	Peak	349.00	300	Vertical	Pass
2**	2980.875	42.12	54.0	11.88	AV	349.00	300	Vertical	Pass
3	4850.972	48.20	74.0	25.80	Peak	41.00	200	Vertical	Pass
3**	4850.972	40.51	54.0	13.49	AV	41.00	200	Vertical	Pass
4	6605.243	51.92	74.0	22.08	Peak	355.00	400	Vertical	Pass
4**	6605.243	42.47	54.0	11.53	AV	355.00	400	Vertical	Pass
5	13436.559	54.41	74.0	19.59	Peak	11.00	300	Vertical	Pass
5**	13436.559	47.32	54.0	6.68	AV	11.00	300	Vertical	Pass
6	17413.072	56.97	74.0	17.03	Peak	321.00	200	Vertical	Pass
6**	17413.072	44.61	54.0	9.39	AV	321.00	200	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	1327.199	45.82	74.0	28.18	Peak	120.00	100	Horizontal	Pass
1**	1327.199	38.47	54.0	15.53	AV	120.00	100	Horizontal	Pass
2	3000.278	48.42	74.0	25.58	Peak	218.00	300	Horizontal	Pass
2**	3000.278	42.18	54.0	11.82	AV	218.00	300	Horizontal	Pass
3	4938.032	52.45	74.0	21.55	Peak	8.00	200	Horizontal	Pass
3**	4938.032	43.35	54.0	10.65	AV	8.00	200	Horizontal	Pass
4	6810.700	57.07	74.0	16.93	Peak	310.00	300	Horizontal	Pass
4**	6810.700	42.45	54.0	11.55	AV	310.00	300	Horizontal	Pass
5	13413.696	55.88	74.0	18.12	Peak	281.00	400	Horizontal	Pass
5**	13413.696	45.29	54.0	8.71	AV	281.00	400	Horizontal	Pass
6	17427.585	56.68	74.0	17.32	Peak	103.00	400	Horizontal	Pass
6**	17427.585	49.64	54.0	4.36	AV	103.00	400	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	1330.508	48.13	74.0	25.87	Peak	136.00	400	Vertical	Pass
1**	1330.508	38.65	54.0	15.35	AV	136.00	400	Vertical	Pass
2	2985.372	51.09	74.0	22.91	Peak	300.00	200	Vertical	Pass
2**	2985.372	40.37	54.0	13.63	AV	300.00	200	Vertical	Pass
3	4853.786	52.01	74.0	21.99	Peak	202.00	200	Vertical	Pass
3**	4853.786	41.62	54.0	12.38	AV	202.00	200	Vertical	Pass
4	6604.219	55.67	74.0	18.33	Peak	42.00	200	Vertical	Pass
4**	6604.219	43.22	54.0	10.78	AV	42.00	200	Vertical	Pass
5	13431.583	57.21	74.0	16.79	Peak	290.00	200	Vertical	Pass
5**	13431.583	47.86	54.0	6.14	AV	290.00	200	Vertical	Pass
6	17413.736	56.02	74.0	17.98	Peak	212.00	400	Vertical	Pass
6**	17413.736	49.22	54.0	4.78	AV	212.00	400	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	1329.029	47.25	74.0	26.75	Peak	210.00	200	Horizontal	Pass
1**	1329.029	35.99	54.0	18.01	AV	210.00	200	Horizontal	Pass
2	2998.357	49.76	74.0	24.24	Peak	313.00	300	Horizontal	Pass
2**	2998.357	39.39	54.0	14.61	AV	313.00	300	Horizontal	Pass
3	4932.012	52.24	74.0	21.76	Peak	161.00	200	Horizontal	Pass
3**	4932.012	44.49	54.0	9.51	AV	161.00	200	Horizontal	Pass
4	6807.229	54.19	74.0	19.81	Peak	23.00	400	Horizontal	Pass
4**	6807.229	46.24	54.0	7.76	AV	23.00	400	Horizontal	Pass
5	13414.978	55.84	74.0	18.16	Peak	234.00	200	Horizontal	Pass
5**	13414.978	48.24	54.0	5.76	AV	234.00	200	Horizontal	Pass
6	17428.029	57.91	74.0	16.09	Peak	71.00	400	Horizontal	Pass
6**	17428.029	47.02	54.0	6.98	AV	71.00	400	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	1336.676	47.46	74.0	26.54	Peak	233.00	100	Vertical	Pass
1**	1336.676	38.24	54.0	15.76	AV	233.00	100	Vertical	Pass
2	2983.753	50.78	74.0	23.22	Peak	155.00	400	Vertical	Pass
2**	2983.753	40.34	54.0	13.66	AV	155.00	400	Vertical	Pass
3	4856.508	51.50	74.0	22.50	Peak	302.00	200	Vertical	Pass
3**	4856.508	40.52	54.0	13.48	AV	302.00	200	Vertical	Pass
4	6610.636	51.53	74.0	22.47	Peak	173.00	100	Vertical	Pass
4**	6610.636	46.16	54.0	7.84	AV	173.00	100	Vertical	Pass
5	13438.683	55.39	74.0	18.61	Peak	124.00	100	Vertical	Pass
5**	13438.683	49.01	54.0	4.99	AV	124.00	100	Vertical	Pass
6	17419.823	57.22	74.0	16.78	Peak	78.00	100	Vertical	Pass
6**	17419.823	48.96	54.0	5.04	AV	78.00	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	1326.774	42.21	74.0	31.79	Peak	330.00	400	Horizontal	Pass
1**	1326.774	38.45	54.0	15.55	AV	330.00	400	Horizontal	Pass
2	2997.776	49.28	74.0	24.72	Peak	283.00	100	Horizontal	Pass
2**	2997.776	39.31	54.0	14.69	AV	283.00	100	Horizontal	Pass
3	4935.903	49.01	74.0	24.99	Peak	190.00	200	Horizontal	Pass
3**	4935.903	42.28	54.0	11.72	AV	190.00	200	Horizontal	Pass
4	6805.151	52.34	74.0	21.66	Peak	128.00	400	Horizontal	Pass
4**	6805.151	42.51	54.0	11.49	AV	128.00	400	Horizontal	Pass
5	13410.176	55.65	74.0	18.35	Peak	274.00	300	Horizontal	Pass
5**	13410.176	48.88	54.0	5.12	AV	274.00	300	Horizontal	Pass
6	17427.057	57.90	74.0	16.10	Peak	49.00	200	Horizontal	Pass
6**	17427.057	45.65	54.0	8.35	AV	49.00	200	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	1332.114	43.15	74.0	30.85	Peak	145.00	200	Vertical	Pass
1**	1332.114	36.84	54.0	17.16	AV	145.00	200	Vertical	Pass
2	2981.913	50.85	74.0	23.15	Peak	171.00	100	Vertical	Pass
2**	2981.913	42.16	54.0	11.84	AV	171.00	100	Vertical	Pass
3	4855.370	47.88	74.0	26.12	Peak	99.00	200	Vertical	Pass
3**	4855.370	37.75	54.0	16.25	AV	99.00	200	Vertical	Pass
4	6608.994	51.64	74.0	22.36	Peak	175.00	400	Vertical	Pass
4**	6608.994	47.52	54.0	6.48	AV	175.00	400	Vertical	Pass
5	13431.500	54.57	74.0	19.43	Peak	263.00	400	Vertical	Pass
5**	13431.500	43.40	54.0	10.60	AV	263.00	400	Vertical	Pass
6	17413.416	55.15	74.0	18.85	Peak	216.00	100	Vertical	Pass
6**	17413.416	47.04	54.0	6.96	AV	216.00	100	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1328.271	45.41	74.0	28.59	Peak	58.00	300	Horizontal	Pass
1**	1328.271	37.60	54.0	16.40	AV	58.00	300	Horizontal	Pass
2	2994.583	52.39	74.0	21.61	Peak	62.00	300	Horizontal	Pass
2**	2994.583	41.75	54.0	12.25	AV	62.00	300	Horizontal	Pass
3	4932.473	53.80	74.0	20.20	Peak	119.00	200	Horizontal	Pass
3**	4932.473	40.00	54.0	14.00	AV	119.00	200	Horizontal	Pass
4	6806.214	53.47	74.0	20.53	Peak	341.00	300	Horizontal	Pass
4**	6806.214	46.58	54.0	7.42	AV	341.00	300	Horizontal	Pass
5	13410.740	54.01	74.0	19.99	Peak	27.00	100	Horizontal	Pass
5**	13410.740	48.88	54.0	5.12	AV	27.00	100	Horizontal	Pass
6	17425.911	55.93	74.0	18.07	Peak	94.00	100	Horizontal	Pass
6**	17425.911	44.99	54.0	9.01	AV	94.00	100	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	1330.528	44.52	74.0	29.48	Peak	76.00	200	Vertical	Pass
1**	1330.528	38.68	54.0	15.32	AV	76.00	200	Vertical	Pass
2	2984.735	50.81	74.0	23.19	Peak	47.00	200	Vertical	Pass
2**	2984.735	42.96	54.0	11.04	AV	47.00	200	Vertical	Pass
3	4850.588	48.40	74.0	25.60	Peak	325.00	200	Vertical	Pass
3**	4850.588	41.64	54.0	12.36	AV	325.00	200	Vertical	Pass
4	6609.399	51.37	74.0	22.63	Peak	40.00	100	Vertical	Pass
4**	6609.399	45.67	54.0	8.33	AV	40.00	100	Vertical	Pass
5	13437.237	58.18	74.0	15.82	Peak	96.00	400	Vertical	Pass
5**	13437.237	48.58	54.0	5.42	AV	96.00	400	Vertical	Pass
6	17414.833	55.87	74.0	18.13	Peak	284.00	400	Vertical	Pass
6**	17414.833	48.63	54.0	5.37	AV	284.00	400	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	1327.765	47.19	74.0	26.81	Peak	90.00	400	Horizontal	Pass
1**	1327.765	38.97	54.0	15.03	AV	90.00	400	Horizontal	Pass
2	2994.875	48.29	74.0	25.71	Peak	25.00	300	Horizontal	Pass
2**	2994.875	43.53	54.0	10.47	AV	25.00	300	Horizontal	Pass
3	4933.472	54.18	74.0	19.82	Peak	83.00	200	Horizontal	Pass
3**	4933.472	41.20	54.0	12.80	AV	83.00	200	Horizontal	Pass
4	6810.874	54.81	74.0	19.19	Peak	111.00	300	Horizontal	Pass
4**	6810.874	45.86	54.0	8.14	AV	111.00	300	Horizontal	Pass
5	13415.127	55.25	74.0	18.75	Peak	279.00	100	Horizontal	Pass
5**	13415.127	43.85	54.0	10.15	AV	279.00	100	Horizontal	Pass
6	17422.533	54.37	74.0	19.63	Peak	334.00	400	Horizontal	Pass
6**	17422.533	47.14	54.0	6.86	AV	334.00	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	1336.493	45.44	74.0	28.56	Peak	236.00	400	Vertical	Pass
1**	1336.493	34.99	54.0	19.01	AV	236.00	400	Vertical	Pass
2	2979.070	49.84	74.0	24.16	Peak	250.00	200	Vertical	Pass
2**	2979.070	41.68	54.0	12.32	AV	250.00	200	Vertical	Pass
3	4857.071	47.79	74.0	26.21	Peak	54.00	200	Vertical	Pass
3**	4857.071	43.43	54.0	10.57	AV	54.00	200	Vertical	Pass
4	6604.310	55.21	74.0	18.79	Peak	263.00	400	Vertical	Pass
4**	6604.310	43.50	54.0	10.50	AV	263.00	400	Vertical	Pass
5	13435.611	53.41	74.0	20.59	Peak	0.00	300	Vertical	Pass
5**	13435.611	45.88	54.0	8.12	AV	0.00	300	Vertical	Pass
6	17413.503	56.31	74.0	17.69	Peak	201.00	100	Vertical	Pass
6**	17413.503	44.63	54.0	9.37	AV	201.00	100	Vertical	Pass

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

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

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

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

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	2353.833	55.48	74.0	18.52	Peak	188.00	150	Vertical	Pass
1**	2353.833	43.50	54.0	10.50	AV	188.00	150	Vertical	Pass
2	2389.833	53.67	74.0	20.33	Peak	249.00	200	Vertical	Pass
2**	2389.833	42.97	54.0	11.03	AV	249.00	200	Vertical	Pass

802.11b HIGH CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	54.53	74.0	19.47	Peak	264.00	200	Vertical	Pass
1**	2483.500	44.60	54.0	9.40	AV	264.00	200	Vertical	Pass
2	2484.100	55.71	74.0	18.29	Peak	230.00	200	Vertical	Pass
2**	2484.100	43.81	54.0	10.19	AV	230.00	200	Vertical	Pass

802.11g LOW CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2389.667	65.29	74.0	8.71	Peak	226.00	200	Vertical	Pass
1**	2389.667	49.55	54.0	4.45	AV	226.00	200	Vertical	Pass
2	2389.833	64.19	74.0	9.81	Peak	219.00	200	Vertical	Pass
2**	2389.833	49.77	54.0	4.23	AV	219.00	200	Vertical	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	55.27	74.0	18.73	Peak	174.00	200	Vertical	Pass
1**	2483.500	44.84	54.0	9.16	AV	174.00	200	Vertical	Pass
2	2491.950	55.47	74.0	18.53	Peak	220.00	200	Vertical	Pass
2**	2491.950	43.87	54.0	10.13	AV	220.00	200	Vertical	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	67.04	74.0	6.96	Peak	226.00	200	Vertical	Pass
1**	2389.667	50.45	54.0	3.55	AV	226.00	200	Vertical	Pass
2	2389.833	68.85	74.0	5.15	Peak	221.00	100	Vertical	Pass
2**	2389.833	50.61	54.0	3.39	AV	221.00	100	Vertical	Pass

802.11n20 HIGH CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.550	58.16	74.0	15.84	Peak	201.00	150	Vertical	Pass
1**	2483.550	46.16	54.0	7.84	AV	201.00	150	Vertical	Pass
2	2483.750	56.82	74.0	17.18	Peak	178.00	200	Vertical	Pass
2**	2483.750	45.22	54.0	8.78	AV	178.00	200	Vertical	Pass

802.11n40 LOW CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2389.333	58.48	74.0	15.52	Peak	183.00	200	Vertical	Pass
1**	2389.333	47.23	54.0	6.77	AV	183.00	200	Vertical	Pass
2	2389.833	58.63	74.0	15.37	Peak	224.00	200	Vertical	Pass
2**	2389.833	47.09	54.0	6.91	AV	224.00	200	Vertical	Pass

802.11n40 HIGH CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	57.12	74.0	16.88	Peak	175.00	200	Vertical	Pass
1**	2483.500	46.77	54.0	7.23	AV	175.00	200	Vertical	Pass
2	2488.000	59.21	74.0	14.79	Peak	172.00	200	Vertical	Pass
2**	2488.000	46.32	54.0	7.68	AV	172.00	200	Vertical	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	2388.667	57.14	74.0	16.86	Peak	30.00	150	Vertical	Pass
1**	2388.667	44.41	54.0	9.59	AV	30.00	150	Vertical	Pass
2	2389.833	56.10	74.0	17.90	Peak	27.00	100	Vertical	Pass
2**	2389.833	45.11	54.0	8.89	AV	27.00	100	Vertical	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	2483.550	59.77	74.0	14.23	Peak	209.00	200	Vertical	Pass
1**	2483.550	47.17	54.0	6.83	AV	209.00	200	Vertical	Pass
2	2484.150	59.11	74.0	14.89	Peak	206.00	200	Vertical	Pass
2**	2484.150	45.61	54.0	8.39	AV	206.00	200	Vertical	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	2386.833	59.44	74.0	14.56	Peak	225.00	100	Vertical	Pass
1**	2386.833	46.52	54.0	7.48	AV	225.00	100	Vertical	Pass
2	2389.833	57.72	74.0	16.28	Peak	80.00	150	Vertical	Pass
2**	2389.833	47.48	54.0	6.52	AV	80.00	150	Vertical	Pass

802.11ax40(SU) HIGH CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	57.21	74.0	16.79	Peak	179.00	100	Vertical	Pass
1**	2483.500	46.76	54.0	7.24	AV	179.00	100	Vertical	Pass
2	2492.550	61.24	74.0	12.76	Peak	211.00	100	Vertical	Pass
2**	2492.550	46.22	54.0	7.78	AV	211.00	100	Vertical	Pass

A.8 Power Spectral Density (PSD)

Test Data

802.11b Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-7.37	8
Middle	-7.18	8
High	-7.78	8

802.11g Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-9.61	8
Middle	-9.00	8
High	-11.03	8

802.11n-20 MHz Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-7.91	8
Middle	-8.70	8
High	-11.13	8

802.11n-40 MHz Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-13.99	8
Middle	-12.18	8
High	-12.75	8

802.11ax-20 MHz(SU) Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-9.30	8
Middle	-7.13	8
High	-11.10	8

802.11ax-40 MHz(SU) Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-13.81	8
Middle	-9.68	8
High	-13.44	8

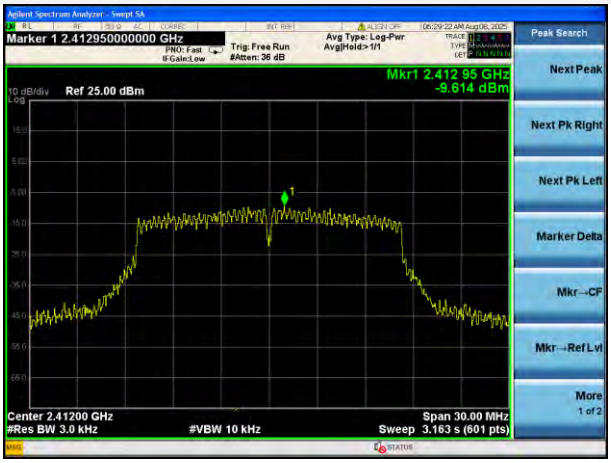
Test Plots

802.11b LOW CHANNEL

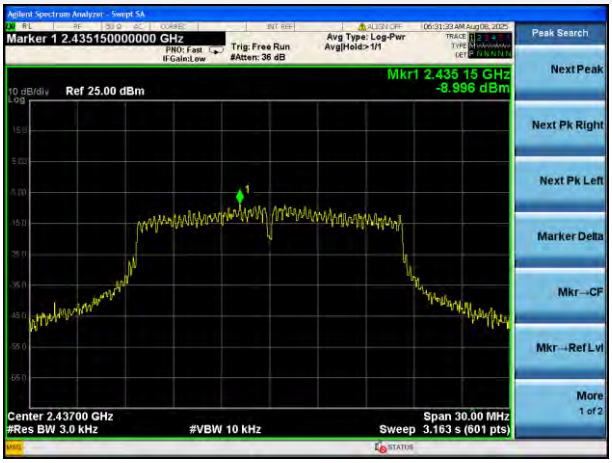
802.11b MIDDLE CHANNEL

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

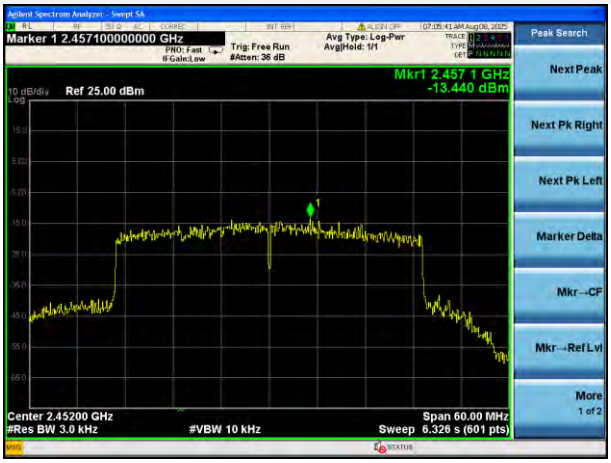
802.11ax-20 MHz(SU) MIDDLE CHANNEL

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-SZ2571319-AR.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SZ2571319-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SZ2571319-AI.PDF”.

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