



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: A25008
Brand Name: acer
Marketing Name: Iconia V12, V12-11M
FCC ID: HLZA25008
ISED Number: 1754F-A25008
Test Standard: 47 CFR Part 15 Subpart C
RSS-Gen Issue 5
RSS-247 Issue 3
(refer to section 3.1)
Sample Arrival Date: May 09, 2025
Test Date: May 31, 2025 - Jun. 10, 2025
Date of Issue: Jul. 16, 2025

ISSUED BY:

Shenzhen BALUN Technology Co., Ltd.

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

Julie Zhu

Ye Hongji

Sunny Zou

Revision History

Version	Issue Date	Revisions
<u>Rev. 01</u>	<u>Jul. 16, 2025</u>	<u>Initial Issue</u>

TABLE OF CONTENTS

1	GENERAL INFORMATION	4
1.1	Test Laboratory	4
1.2	Test Location	4
2	PRODUCT INFORMATION	5
2.1	Applicant Information	5
2.2	Manufacturer Information	5
2.3	General Description for Equipment under Test (EUT)	5
2.4	Technical Information	6
3	SUMMARY OF TEST RESULTS	9
3.1	Test Standards	9
3.2	Test Verdict	9
4	GENERAL TEST CONFIGURATIONS	10
4.1	Test Environments	10
4.2	Test Equipment List	10
4.3	Test Software List	10
4.4	Measurement Uncertainty	11
4.5	Description of Test Setup	11
4.6	Measurement Results Explanation Example	14
5	TEST ITEMS	15
5.1	Antenna Requirements	15
5.2	Output Power	16
5.3	Occupied Bandwidth	18
5.4	Conducted Spurious Emission	19
5.5	Band Edge (Authorized-band band-edge)	21

5.6	Conducted Emission	23
5.7	Radiated Spurious Emission	24
5.8	Band Edge (Restricted-band band-edge).....	29
5.9	Power Spectral density (PSD).....	30
ANNEX A	TEST RESULT	31
A.1	Output Power	31
A.2	Occupied Bandwidth	35
A.3	Conducted Spurious Emissions	43
A.4	Band Edge (Authorized-band band-edge).....	57
A.5	Conducted Emissions.....	63
A.6	Radiated Emission	66
A.7	Band Edge (Restricted-band band-edge).....	86
A.8	Power Spectral Density (PSD)	90
ANNEX B	TEST SETUP PHOTOS	95
ANNEX C	EUT EXTERNAL PHOTOS	95
ANNEX D	EUT INTERNAL PHOTOS	95

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	A25008
Series Model Name	N/A
Description of Model name differentiation	N/A
Marketing Name	Iconia V12, V12-11M
Serial Number	N8LJRWW001522005A19H00
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
-----------------------------------	--

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

Frequency Range	802.11b/g/n/ax(20 MHz): 2.412 GHz - 2.462 GHz $f_c = 2412 \text{ MHz} + (N-1)*5 \text{ MHz}$, where - f_c = "Operating Frequency" in MHz, - N = "Channel Number" with the range from 1 to 11. 802.11n/ax(40 MHz): 2.422 GHz - 2.452 GHz $f_c = 2412 \text{ MHz} + (N-1)*5 \text{ MHz}$, where - f_c = "Operating Frequency" in MHz, - N = "Channel Number" with the range from 3 to 9.
Modulation Technology	DSSS, OFDM, OFDMA
Product Type	☐ Mobile ☒ Portable ☐ Fix Location
Antenna System (eg., MIMO, Smart Antenna)	N/A
Categorization as Correlated or Completely Uncorrelated	N/A
Antenna Type	PIFA Antenna
Antenna Gain	0.38 dBi
About the Product	Only the WIFI 802.11b, 802.11g, 802.11n (HT20/40) and 802.11ax (HE20/40) was tested in this report.

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

Modulation technology	Modulation Type	Transfer Rate (Mbps)(Single RF path)
DSSS (802.11b)	DBPSK	1
	DQPSK	2
	CCK	5.5/11
OFDM (802.11g)	BPSK	6/9
	QPSK	12/18
	16QAM	24/36
	64QAM	48/54
OFDM (802.11n-20 MHz)	BPSK	6.5/7.2
	QPSK	13/19.5/14.4/21.7
	16QAM	26/39/28.9/43.3
	64QAM	52/58.5/65/57.8/65/72.2
OFDM (802.11n-40 MHz)	BPSK	13.5/15
	QPSK	27/40.5/30/45
	16QAM	54/81/60/90
	64QAM	108/121.5/135/120/150
OFDMA (802.11ax-20 MHz)	BPSK	4
	QPSK	16/24/17/26
	16QAM	33/49/34/52
	64QAM	65/73/81/69/77/86
	256QAM	98/108/103/115
	1024QAM	122/135/129/143
OFDMA (802.11ax-40 MHz)	BPSK	8/9
	QPSK	33/49/34/52
	16QAM	65/98/69/103
	64QAM	130/146/163/138/155/172
	256QAM	195/217/207/229
	1024QAM	244/271/258/287

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

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

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

3 SUMMARY OF TEST RESULTS

3.1 Test Standards

No.	Identity	Document Title
1	47 CFR Part 15, Subpart C	Intentional radiators of radio frequency equipment
2	RSS-Gen Issue 5	General Requirements for Compliance of Radio Apparatus
3	RSS-247 Issue 3	Digital Transmission Systems (DTSs), Frequency Hopping Systems(FHSs) and Licence-Exempt Local Area Network (LE-LAN) Devices
4	ANSI C63.10-2013	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	50% to 63%	
Atmospheric Pressure	100 kPa to 102 kPa	
Temperature	NT (Normal Temperature)	+19.4℃ to +24.6℃
Working Voltage of the EUT	NV (Normal Voltage)	3.80V

4.2 Test Equipment List

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer	KEYSIGHT	N9020A	MY46471071	2024.07.04	2025.07.03
Spectrum Analyzer	ROHDE&SCHWARZ	FSV-40	101544	2024.12.16	2025.12.15
Power Sensor	KEYSIGHT	U2063XA	MY58000247	2024.07.04	2025.07.03
Spectrum Analyzer	KEYSIGHT	N9020A	MY50531259	2024.08.01	2025.07.31
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	2024.08.01	2025.07.31
Amplifier	COM-MV	XKu_LNA7-18G-01	7210209	2024.08.01	2025.07.31
Amplifier	COM-MV	KA LNA18 40G-01	18050001	2024.12.05	2025.12.04
EMI Receiver	ROHDE&SCHWARZ	ESRP	101036	2024.08.01	2025.07.31
Test Antenna-Bi-Log	SCHWARZBECK	VULB 9168	9168-01162	2023.08.04	2026.08.03
Test Antenna-Loop	SCHWARZBECK	FMZB 1519	1519-037	2024.01.23	2027.01.22
Amplifier	COM-MV	ZT30-1000M	B2018054558	2024.11.28	2025.11.27
Anechoic Chamber	EMC Electronic Co., Ltd	20.10*11.60*7.35m	130	2024.07.13	2027.07.12
EMI Receiver	KEYSIGHT	N9010B	MY57110309	2024.08.01	2025.07.31
LISN	SCHWARZBECK	NSLK 8127	8127-687	2025.04.29	2026.04.28
Shielded Enclosure	YiHeng Electronic Co., Ltd	3.5m*3.1m*2.8m	112	2025.02.14	2028.02.13

4.3 Test Software List

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

4.4 Measurement Uncertainty

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

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

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

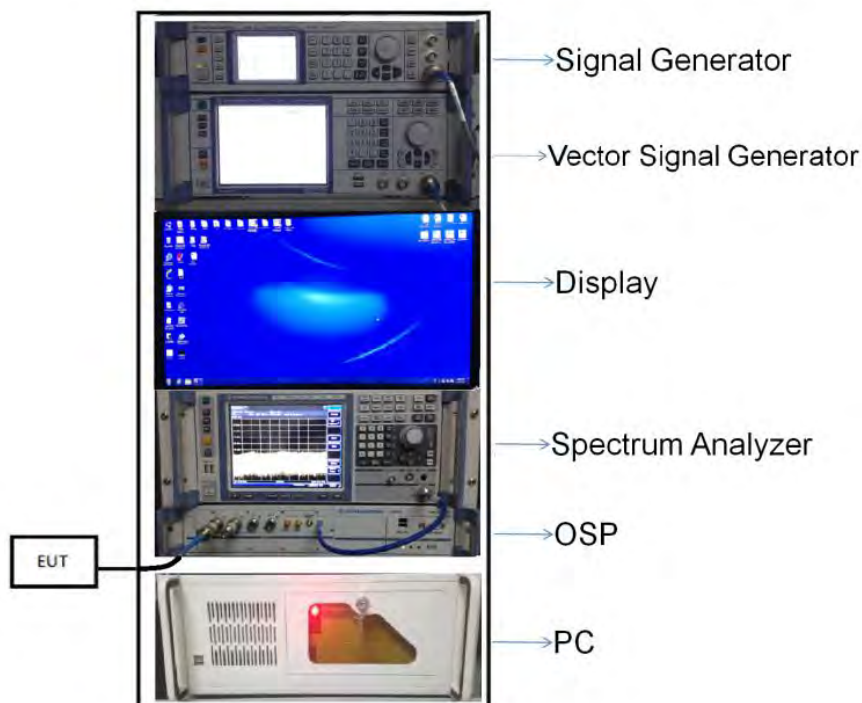
4.5 Description of Test Setup

4.5.1 For Antenna Port Test

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

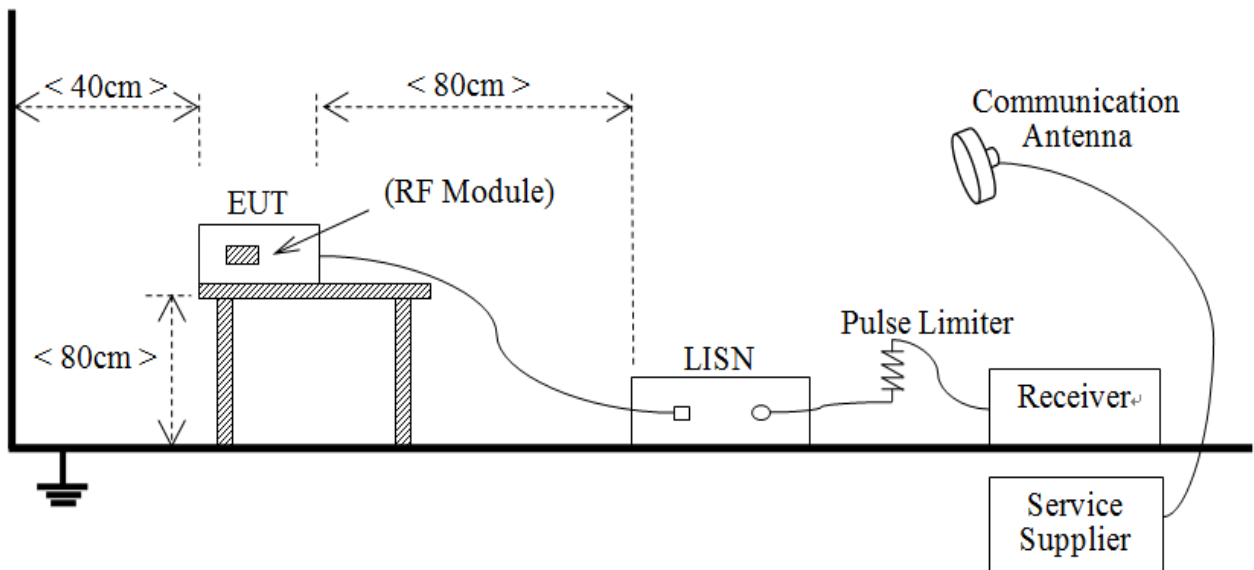
For example: the measurement value is 10 dBm and the cable 0.5dBm used, then the final result of EUT:

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



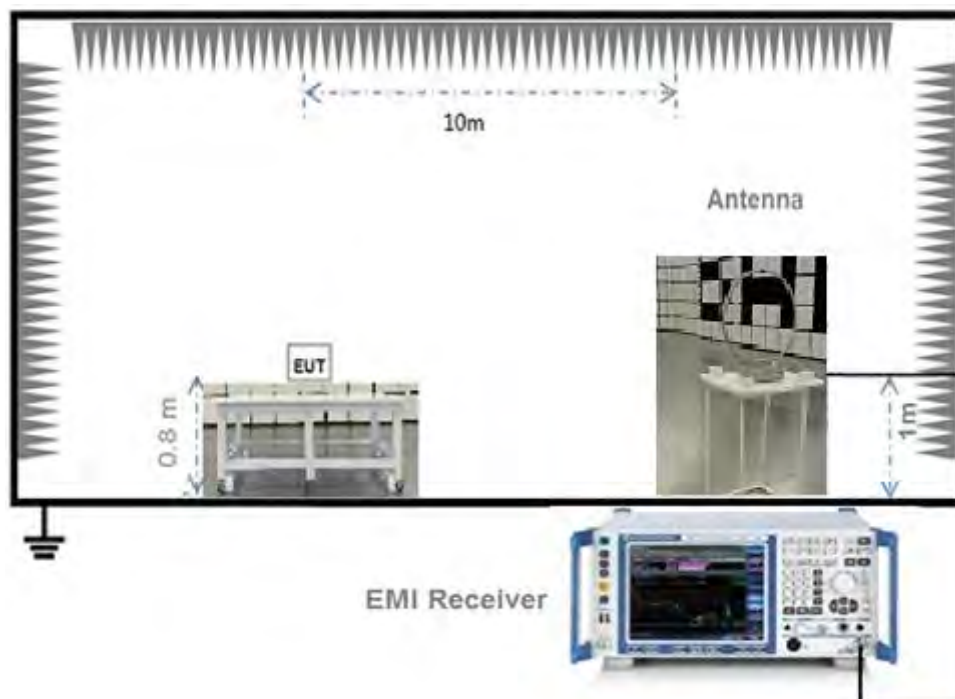
(Diagram 1)

4.5.2 For AC Power Supply Port Test



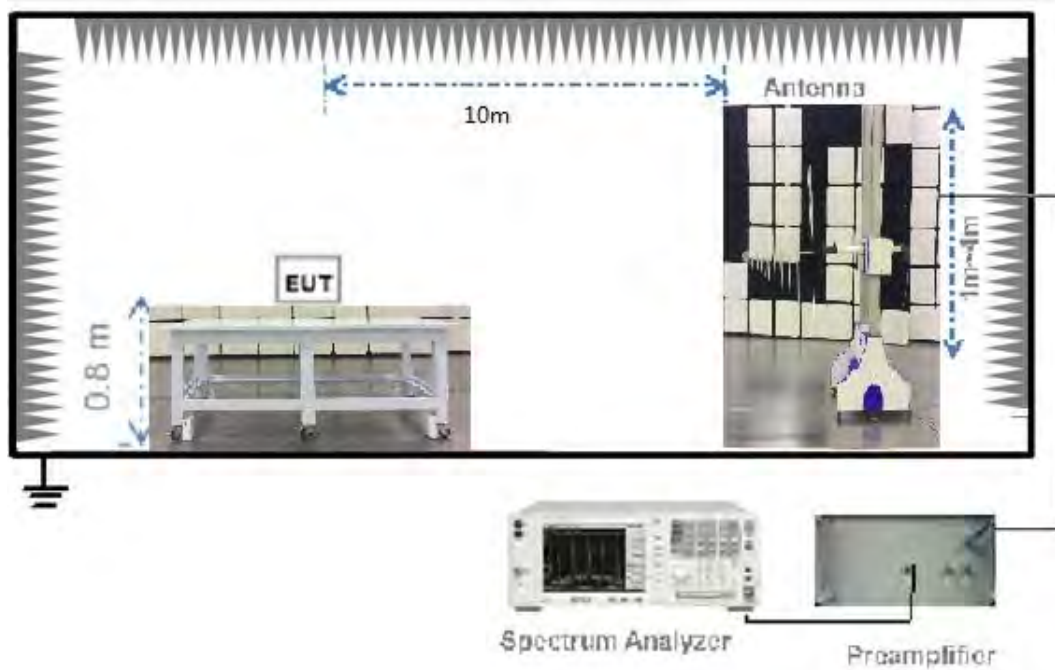
(Diagram 2)

4.5.3 For Radiated Test (Below 30 MHz)



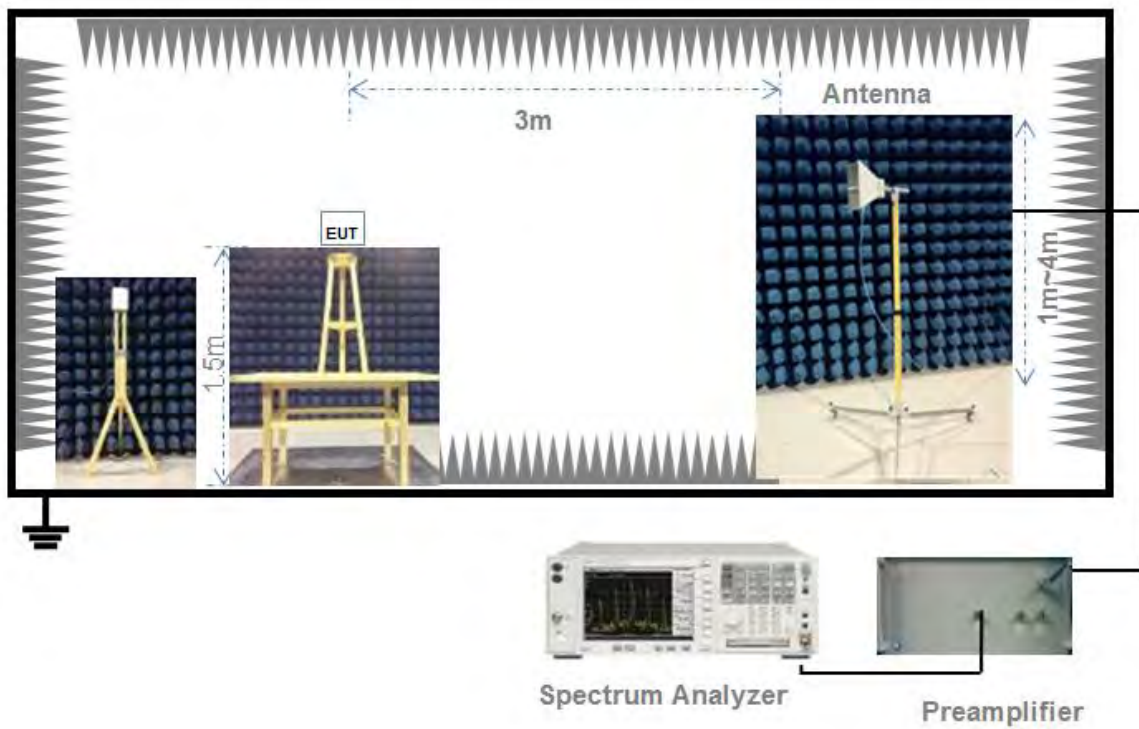
(Diagram 3)

4.5.4 For Radiated Test (30 MHz-1 GHz)



(Diagram 4)

4.5.5 For Radiated Test (Above 1 GHz)



(Diagram 5)

4.6 Measurement Results Explanation Example

4.6.1 For conducted test items:

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

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

Offset = RF cable loss + attenuator factor.

4.6.2 For radiated band edges and spurious emission test:

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

where:

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

EIRP = equivalent isotropic radiated power in dBm

D = specified measurement distance in meters.

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

5 TEST ITEMS

5.1 Antenna Requirements

5.1.1 Relevant Standards

FCC §15.203; RSS-247, 5.4 (f)

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

If directional gain of transmitting antennas is greater than 6 dBi, the power shall be reduced by the same level in dB comparing to gain minus 6 dBi. For the fixed point-to-point operation, the power shall be reduced by one dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the FCC rule.

5.1.2 Antenna Anti-Replacement Construction

The Antenna Anti-Replacement as following method:

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

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

5.1.3 Antenna Gain

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

5.2 Output Power

5.2.1 Test Limit

FCC § 15.247(b); RSS-247, 5.4 (d)

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

5.2.2 Test Setup

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

5.2.3 Test Procedure

Maximum peak conducted output power

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

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

EIRP= Maximum peak conducted output power +Antenna Gain.

Maximum conducted (average) output power (Reporting Only)

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

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

Measurements of duty cycle

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

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

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

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

The zero-span measurement method shall not be used unless both RBW and VBW are $> 50/T$ and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring duty cycle shall not be used if $T \leq 16.7$ microseconds.)

5.2.4 Test Result

Please refer to ANNEX A.1.

5.3 Occupied Bandwidth

5.3.1 Limit

FCC §15.247(a); RSS-GEN, 6.7; RSS-247, 5.2 (a)

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

5.3.2 Test Setup

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

5.3.3 Test Procedure

Use the following spectrum analyzer settings:

Set RBW = 100 kHz.

Set the video bandwidth (VBW) ≥ 3 RBW.

Detector = Peak.

Trace mode = max hold.

Sweep = auto couple.

Allow the trace to stabilize.

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

5.3.4 Test Result

Please refer to ANNEX A.2.

5.4 Conducted Spurious Emission

5.4.1 Limit

FCC §15.247(d); RSS-247, 5.5

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

5.4.2 Test Setup

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

5.4.3 Test Procedure

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

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

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

Reference level measurement

Establish a reference level by using the following procedure:

Set instrument center frequency to DTS channel center frequency.

Set the span to ≥ 1.5 times the DTS bandwidth.

Set the RBW = 100 kHz.

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

Detector = peak.

Sweep time = auto couple.

Trace mode = max hold.

Allow trace to fully stabilize.

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

Emission level measurement

Use the following spectrum analyzer settings:

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

Set the RBW = 100 kHz.

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

Detector = peak.

Sweep time = auto couple.

Trace mode = max hold.

Allow trace to fully stabilize.

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

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

5.4.4 Test Result

Please refer to ANNEX A.3.

5.5 Band Edge (Authorized-band band-edge)

5.5.1 Limit

FCC §15.247(d); RSS-GEN, 8.9, RSS-247, 5.5

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

5.5.2 Test Setup

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

5.5.3 Test Procedure

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

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

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

Set span to 2 MHz

RBW = 100 kHz.

VBW $\geq 3 \times$ RBW.

Detector = peak.

Sweep time = auto.

Trace mode = max hold.

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

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

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

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

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

Attenuation: Auto (at least 10 dB preferred).

Sweep time: Coupled.

Resolution bandwidth: 100 kHz.

Video bandwidth: 300 kHz.

Detector: Peak.

Trace: Max hold.

5.5.4 Test Result

Please refer to ANNEX A.4.

5.6 Conducted Emission

5.6.1 Limit

FCC §15.207; RSS-GEN, 8.8

For an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50 μ H/50 Ω line impedance stabilization network (LISN).

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

5.6.2 Test Setup

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

5.6.3 Test Procedure

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

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

5.6.4 Test Result

Please refer to ANNEX A.5.

5.7 Radiated Spurious Emission

5.7.1 Limit

FCC §15.209&15.247(d); RSS-247, 5.5

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

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

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

Note:

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

5.7.2 Test Setup

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

5.7.3 Test Procedure

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

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

General Procedure for conducted measurements in restricted bands

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

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

where:

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

EIRP = equivalent isotropic radiated power in dBm

D = specified measurement distance in meters.

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

Quasi-Peak measurement procedure

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

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

Peak power measurement procedure

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

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

longer for low duty cycle applications).

Table 1—RBW as a function of frequency

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

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

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

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

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

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

Determining the applicable transmit antenna gain

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

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

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

Radiated spurious emission test

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

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

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

The power of the EUT transmitting frequency should be ignored.

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

Use the following spectrum analyzer settings:

Span = wide enough to fully capture the emission being measured

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

VBW $\geq$ RBW

Sweep = auto

Detector function = peak

Trace = max hold

5.7.4 Test Result

Please refer to ANNEX A.6.

5.8 Band Edge (Restricted-band band-edge)

5.8.1 Limit

FCC §15.209&15.247(d); RSS-247, 5.5

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

5.8.2 Test Setup

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

5.8.3 Test Procedure

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

The power of the EUT transmitting frequency should be ignored.

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

Use the following spectrum analyzer settings:

Span = wide enough to fully capture the emission being measured

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

VBW $\geq$ RBW

Sweep = auto

Detector function = peak

Trace = max hold

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

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

5.8.4 Test Result

Please refer to ANNEX A.7.

5.9 Power Spectral density (PSD)

5.9.1 Limit

FCC §15.247(e); RSS-247, 5.2 (b)

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

5.9.2 Test Setup

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

5.9.3 Test Procedure

Set analyzer center frequency to DTS channel center frequency.

Set the span to 1.5 times the DTS bandwidth.

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

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

Detector = peak.

Sweep time = auto couple.

Trace mode = max hold.

Allow trace to fully stabilize.

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

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

5.9.4 Test Result

Please refer to ANNEX A.8.

ANNEX A TEST RESULT

A.1 Output Power

Duty Cycle

Test Mode	On Time (ms)	On+Off time (ms)	Duty Cycle	Duty Factor
802.11b	8.37	8.63	96.96%	0.13
802.11g	1.39	1.63	84.94%	0.71
802.11n-20 MHz	1.30	1.55	83.55%	0.78
802.11n-40 MHz	0.64	0.90	71.56%	1.45
802.11ax-20 MHz	1.01	1.27	79.56%	0.99
802.11ax-40 MHz	0.53	0.79	67.38%	1.71

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

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	18.53	71.29	30	1000	Pass
Middle	18.69	73.96			Pass
High	18.77	75.34			Pass

802.11g Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	21.38	137.40	30	1000	Pass
Middle	21.53	142.23			Pass
High	21.66	146.55			Pass

802.11n-20 MHz Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	21.12	129.42	30	1000	Pass
Middle	21.80	151.36			Pass
High	21.45	139.64			Pass

802.11n-40 MHz Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	19.61	91.41	30	1000	Pass
Middle	22.84	192.31			Pass
High	21.74	149.28			Pass

802.11ax-20 MHz(SU) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	21.77	150.31	30	1000	Pass
Middle	23.50	223.87			Pass
High	23.19	208.45			Pass

802.11ax-40 MHz(SU) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	20.42	110.15	30	1000	Pass
Middle	24.82	303.39			Pass
High	23.78	238.78			Pass

Average Power Test Data

802.11b Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	15.38	34.51	30	1000	Pass
Middle	15.58	36.14			Pass
High	15.69	37.07			Pass

802.11g Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	15.16	32.81	30	1000	Pass
Middle	15.36	34.36			Pass
High	14.94	31.19			Pass

802.11n-20 MHz Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	14.35	27.23	30	1000	Pass
Middle	15.12	32.51			Pass
High	14.79	30.13			Pass

802.11n-40 MHz Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	12.18	16.52	30	1000	Pass
Middle	15.45	35.08			Pass
High	14.33	27.10			Pass

802.11ax-20 MHz(SU) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	13.42	21.98	30	1000	Pass
Middle	15.09	32.28			Pass
High	14.71	29.58			Pass

802.11ax-40 MHz(SU) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	11.15	13.03	30	1000	Pass
Middle	15.45	35.08			Pass
High	15.76	37.67			Pass

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

802.11b Mode:

Channel	E.I.R.P		Limit		Verdict
	dBm	mW	dBm	W	
Low	18.91	77.80	36	4	Pass
Middle	19.07	80.72			Pass
High	19.15	82.22			Pass

802.11g Mode:

Channel	E.I.R.P		Limit		Verdict
	dBm	mW	dBm	W	
Low	21.76	149.97	36	4	Pass
Middle	21.91	155.24			Pass
High	22.04	159.96			Pass

802.11n-20 MHz Mode:

Channel	E.I.R.P		Limit		Verdict
	dBm	mW	dBm	W	
Low	21.50	141.25	36	4	Pass
Middle	22.18	165.20			Pass
High	21.83	152.41			Pass

802.11n-40 MHz Mode:

Channel	E.I.R.P		Limit		Verdict
	dBm	mW	dBm	W	
Low	19.99	99.77	36	4	Pass
Middle	23.22	209.89			Pass
High	22.12	162.93			Pass

802.11ax-20 MHz(SU) Mode:

Channel	E.I.R.P		Limit		Verdict
	dBm	mW	dBm	W	
Low	22.15	164.06	36	4	Pass
Middle	23.88	244.34			Pass
High	23.57	227.51			Pass

802.11ax-40 MHz(SU) Mode:

Channel	E.I.R.P		Limit		Verdict
	dBm	mW	dBm	W	
Low	20.80	120.23	36	4	Pass
Middle	25.20	331.13			Pass
High	24.16	260.62			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	12.711000	≥500
Middle	8.200000	12.680000	≥500
High	8.200000	12.682000	≥500

802.11g Mode:

Channel	6 dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limits (kHz)
Low	15.400000	17.507000	≥500
Middle	15.300000	17.363000	≥500
High	15.200000	17.594000	≥500

802.11n-20MHz Mode:

Channel	6 dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limits (kHz)
Low	15.200000	18.457000	≥500
Middle	15.300000	18.358000	≥500
High	15.300000	18.674000	≥500

802.11n-40MHz Mode:

Channel	6 dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limits (kHz)
Low	35.200000	36.424000	≥500
Middle	35.200000	36.565000	≥500
High	35.200000	36.482000	≥500

802.11ax-20 MHz(SU) Mode:

Channel	6 dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limits (kHz)
Low	16.900000	18.963000	≥500
Middle	17.700000	19.144000	≥500
High	17.400000	19.192000	≥500

802.11ax-40 MHz(SU) Mode:

Channel	6 dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limits (kHz)
Low	35.200000	37.741000	≥500
Middle	36.100000	37.776000	≥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



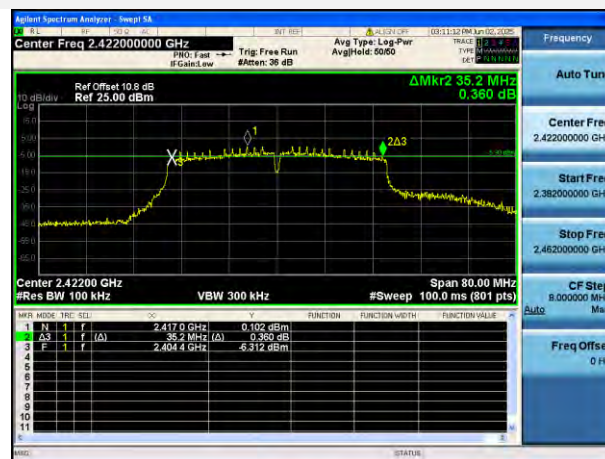
802.11n-20 MHz MIDDLE CHANNEL



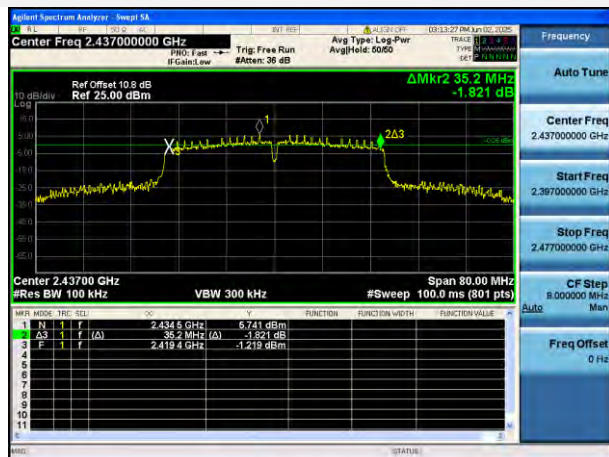
802.11n-20 MHz HIGH CHANNEL



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



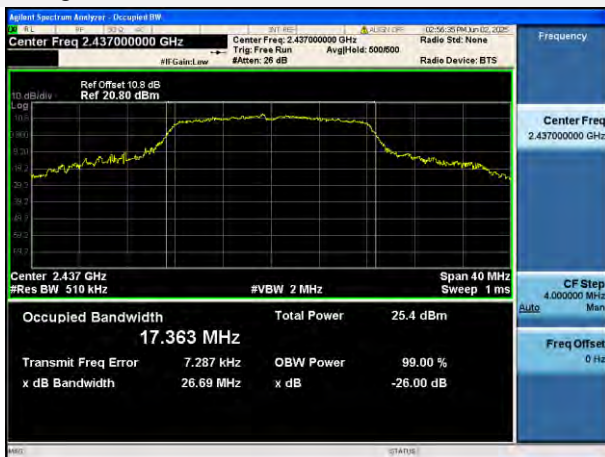
802.11b HIGH CHANNEL



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



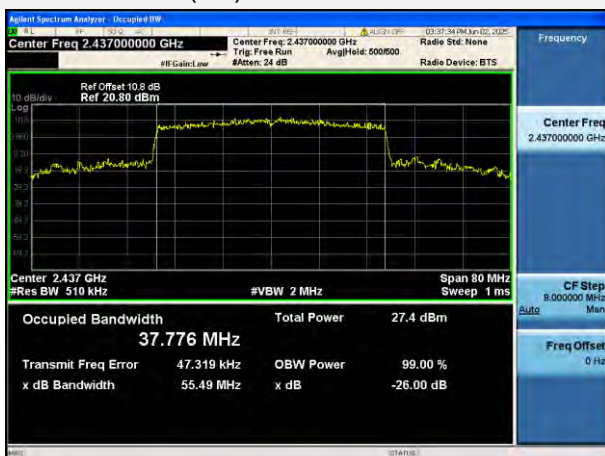
802.11ax-20 MHz(SU) HIGH CHANNEL



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	-36.87	6.94	-13.06	Pass
Middle	-36.81	6.66	-13.34	Pass
High	-39.83	6.85	-13.15	Pass

802.11g Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-37.26	5.81	-14.19	Pass
Middle	-36.85	6.00	-14.00	Pass
High	-37.83	6.22	-13.78	Pass

802.11n-20MHz Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-37.43	5.79	-14.21	Pass
Middle	-35.84	6.30	-13.70	Pass
High	-37.19	6.04	-13.96	Pass

802.11n-40MHz Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-37.30	0.68	-19.32	Pass
Middle	-36.64	4.00	-16.00	Pass
High	-36.48	2.86	-17.14	Pass

802.11ax-20 MHz(SU) Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-37.30	4.62	-15.38	Pass
Middle	-36.56	6.24	-13.76	Pass
High	-36.65	6.09	-13.91	Pass

802.11ax-40 MHz(SU) Mode:

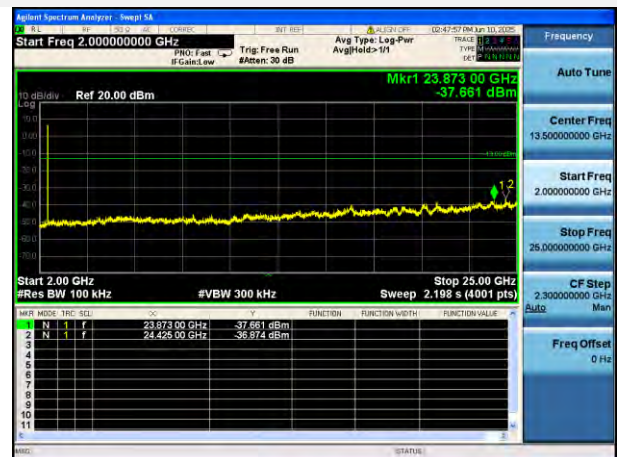
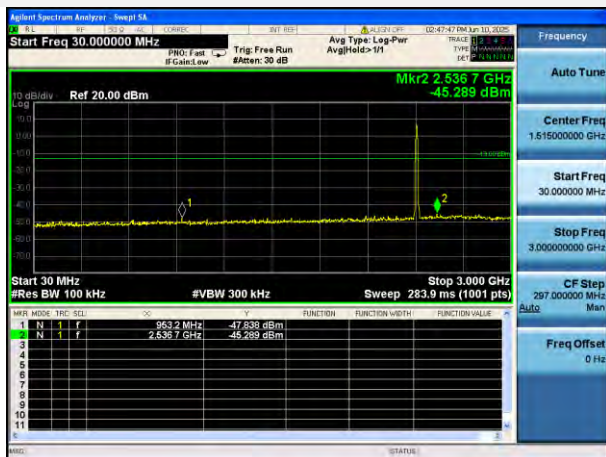
Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-37.40	-0.32	-20.32	Pass
Middle	-37.18	3.86	-16.14	Pass
High	-36.68	2.87	-17.13	Pass

Test Plots

802.11b LOW CHANNEL CARRIER LEVEL



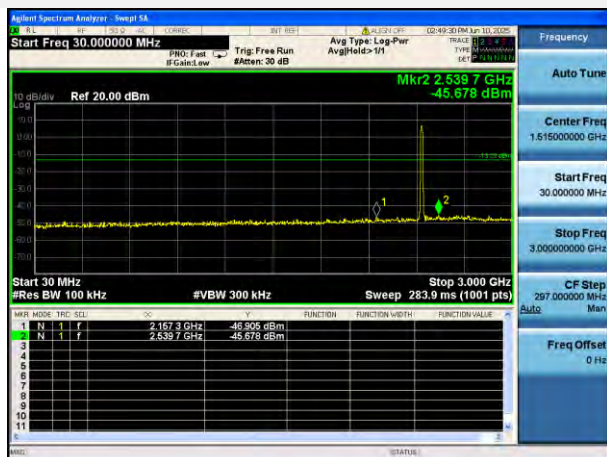
802.11b LOW CHANNEL, SPURIOUS 30 MHz ~ 3 GHz 802.11b LOW CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



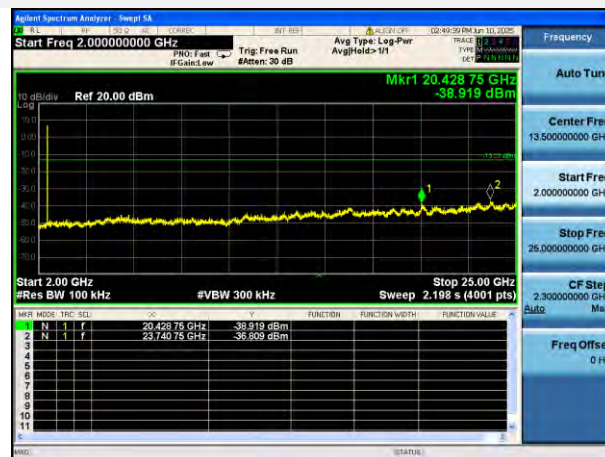
802.11b MIDDLE CHANNEL CARRIER LEVEL



802.11b MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



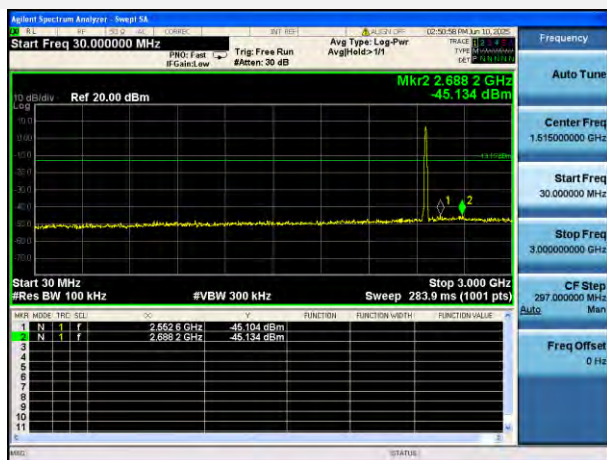
802.11b MIDDLE CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



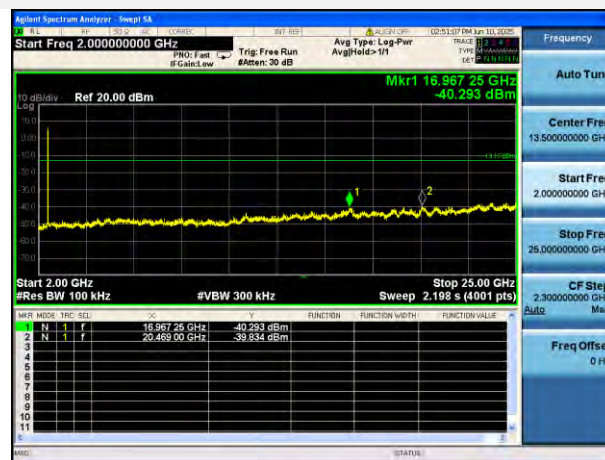
802.11b HIGH CHANNEL CARRIER LEVEL

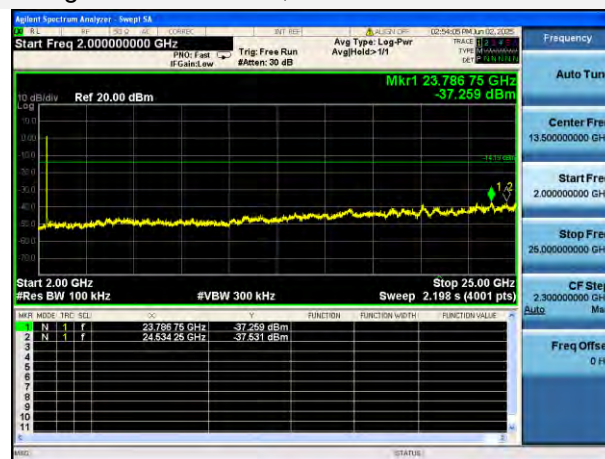


802.11b HIGH CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



802.11b HIGH CHANNEL, SPURIOUS 2 GHz ~ 25 GHz

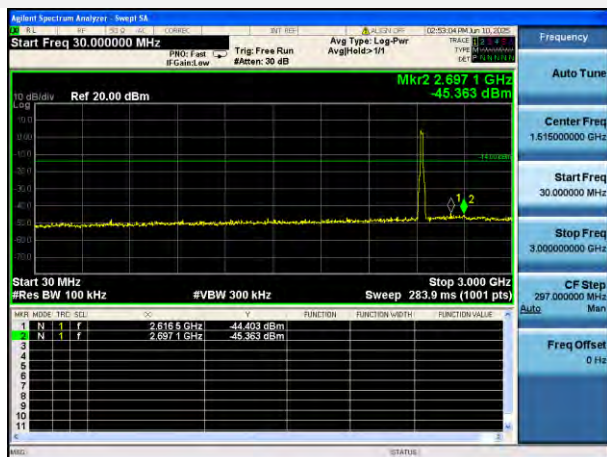


[illegible][illegible]

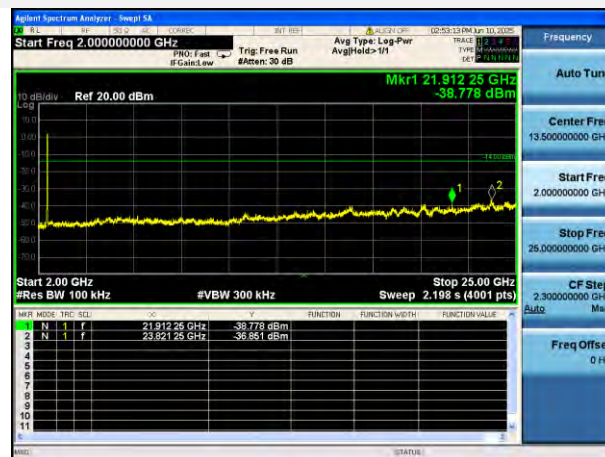
The screenshot displays a Vector Signal Analyzer (VSA) interface. The top status bar shows the device as 'Agilent Spectrum Analyzer - Page1 28' and the frequency as '1.243825000000 GHz'. The main plot area shows a spectrum with a peak at 2.43825 GHz, labeled 'Mkr 1 2.438 25 GHz' and '6.001 dBm'. The plot has a reference level of 'Ref 20.00 dBm' and a span of 'Span 30.00 MHz'. The bottom table lists the measured parameters for the marker.

MARK	MODE	TYPE	CELL	DB	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	PK	1	1	2.438 25 GHz	6.001 dBm		
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							

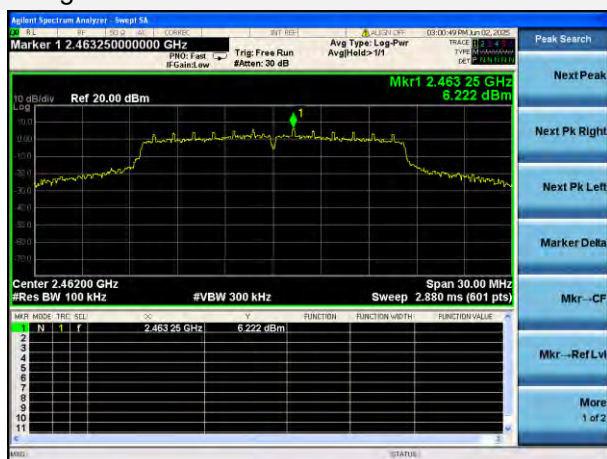
802.11g MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



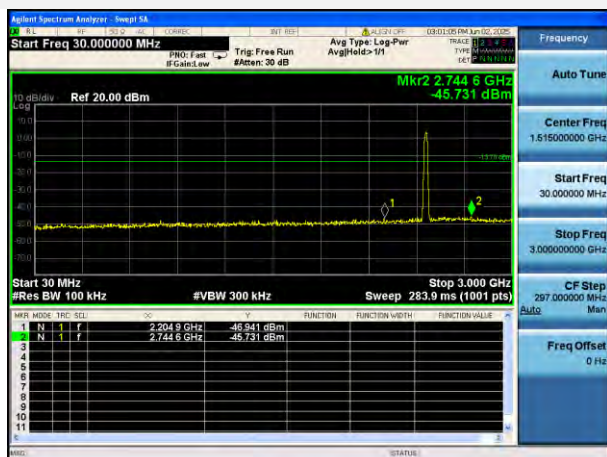
802.11g MIDDLE CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



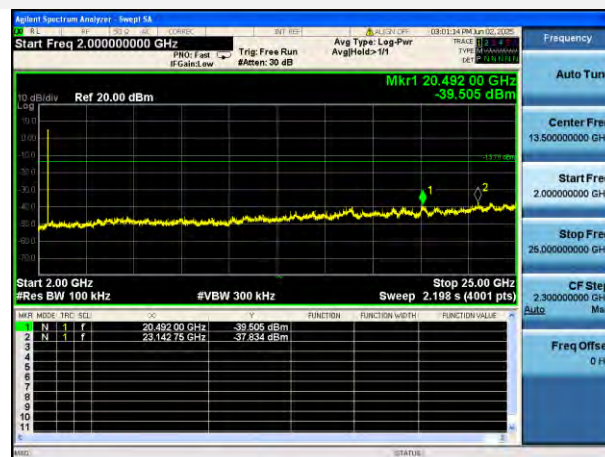
802.11g HIGH CHANNEL CARRIER LEVEL



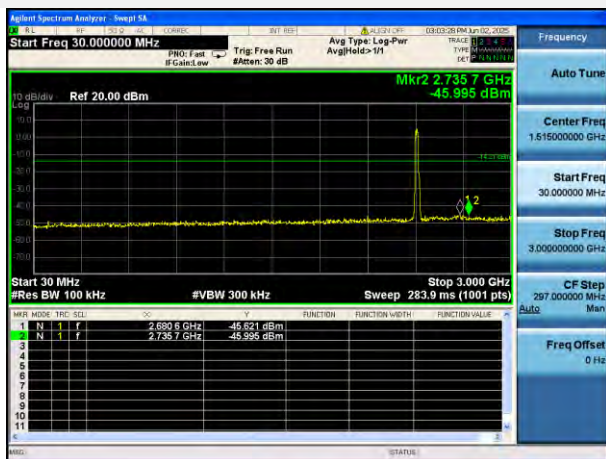
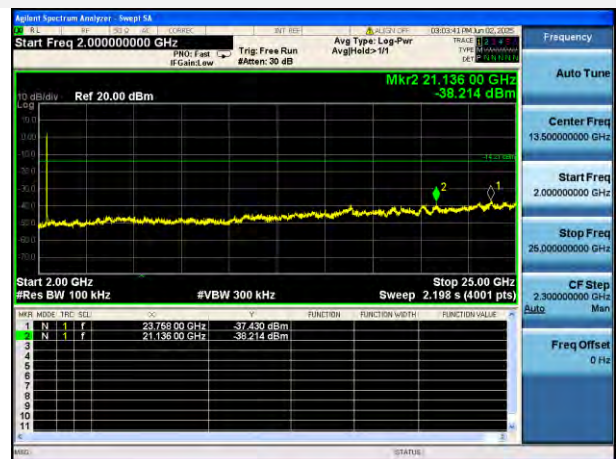
802.11g HIGH CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



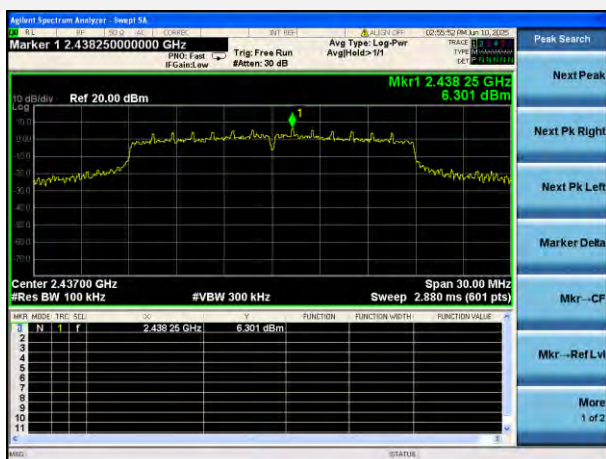
802.11g HIGH CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



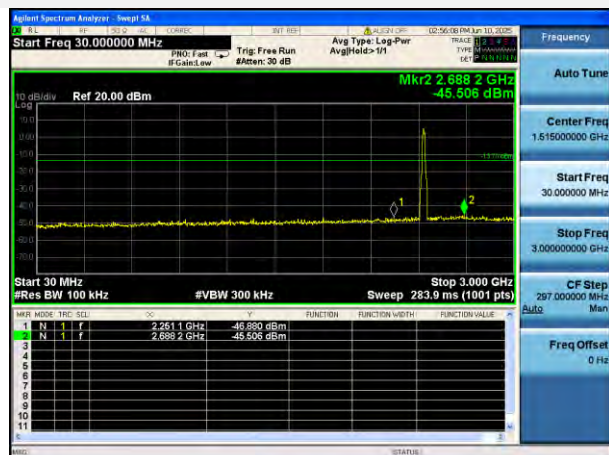
802.11n-20 MHz LOW CHANNEL CARRIER LEVEL

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

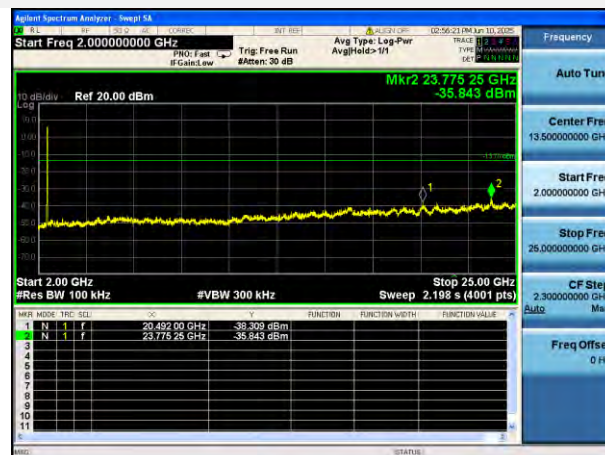
802.11n-20 MHz MIDDLE CHANNEL CARRIER LEVEL



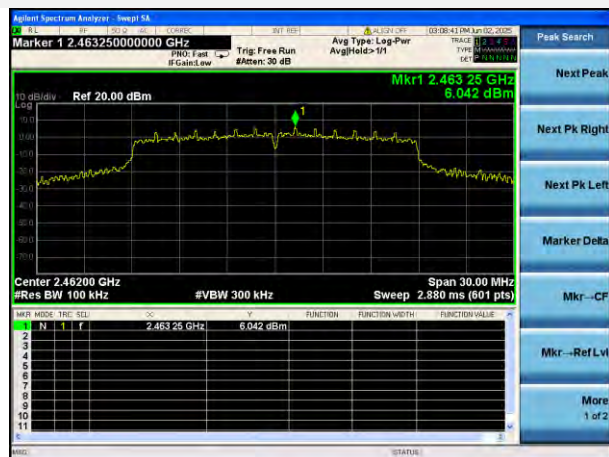
802.11n-20 MHz MIDDLE CHANNEL, SPURIOUS
30 MHz ~ 3 GHz



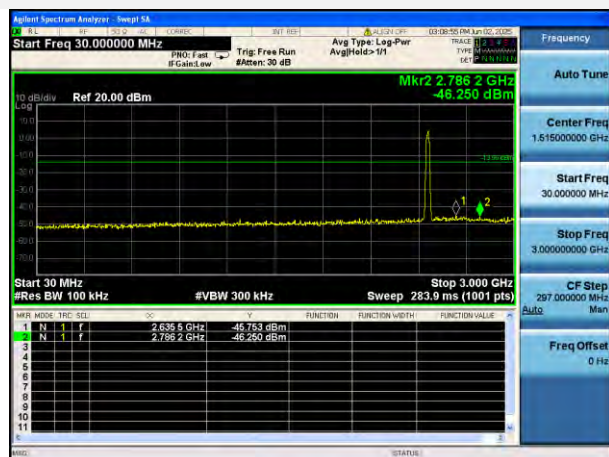
802.11n-20 MHz MIDDLE CHANNEL, SPURIOUS
2 GHz ~ 25 GHz



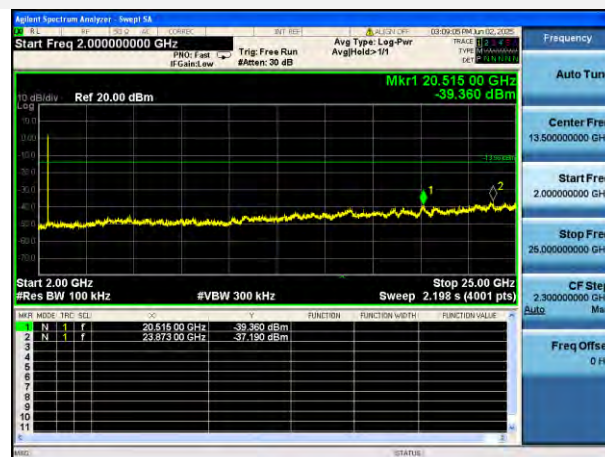
802.11n-20 MHz HIGH CHANNEL CARRIER LEVEL



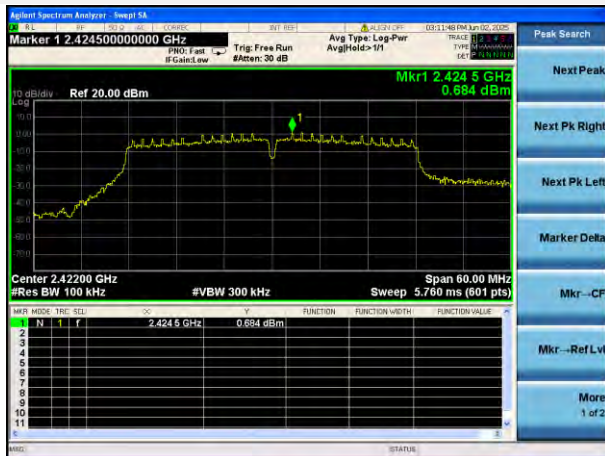
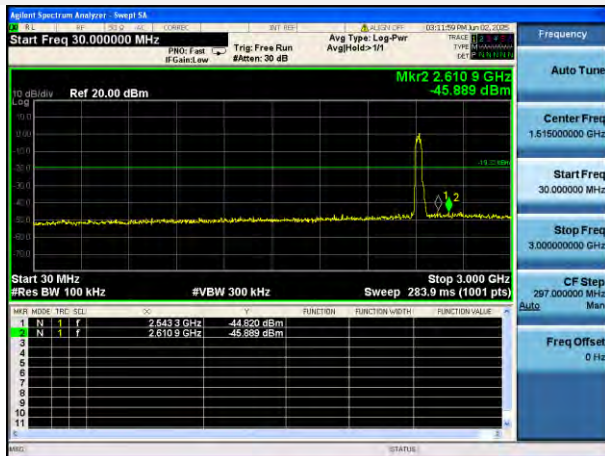
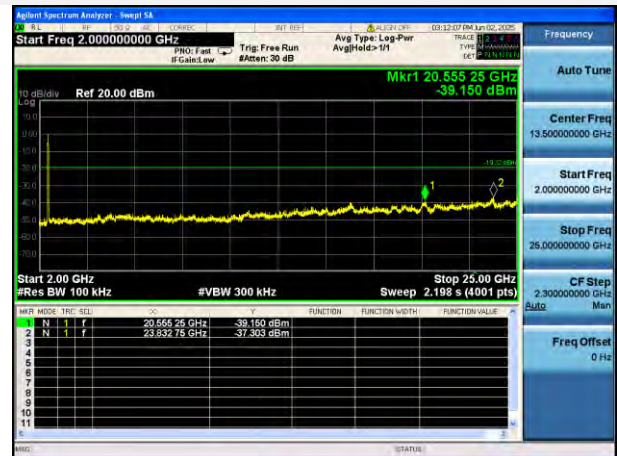
802.11n-20 MHz HIGH CHANNEL, SPURIOUS
30 MHz ~ 3 GHz



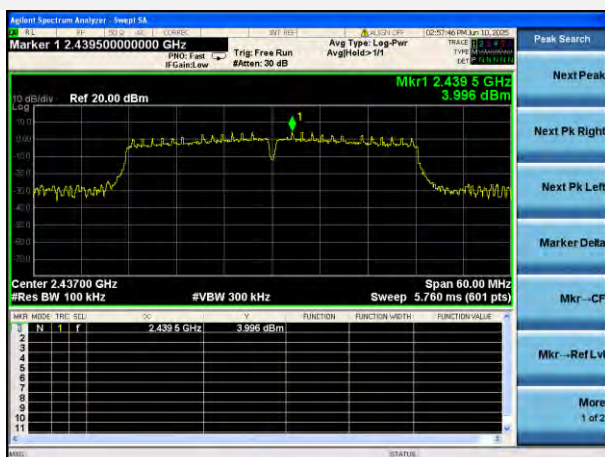
802.11n-20 MHz HIGH CHANNEL, SPURIOUS
2 GHz ~ 25 GHz



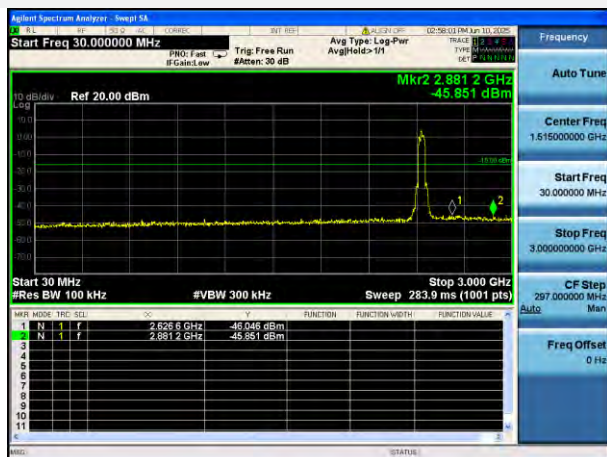
802.11n-40 MHz LOW CHANNEL CARRIER LEVEL

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

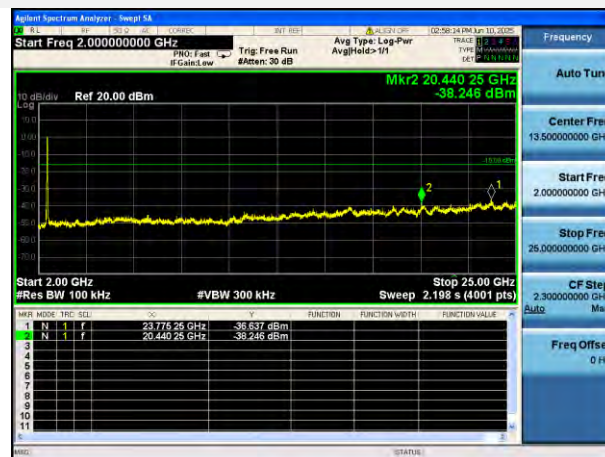
802.11n-40 MHz MIDDLE CHANNEL CARRIER LEVEL



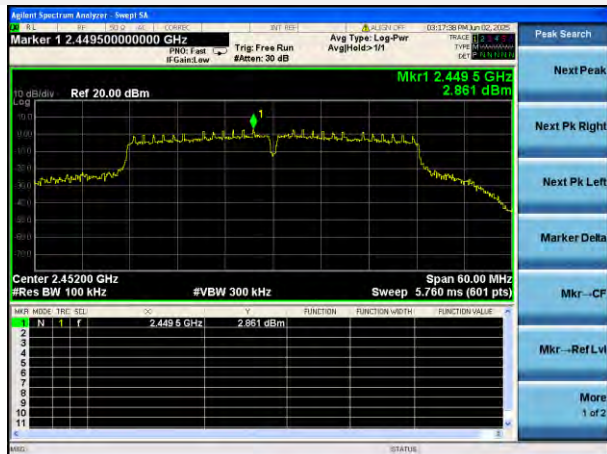
802.11n-40 MHz MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



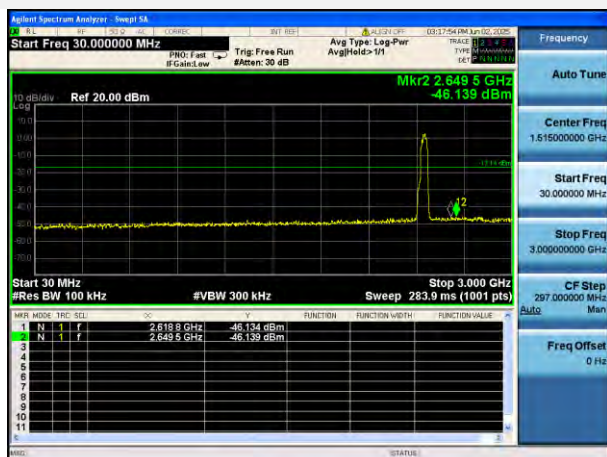
802.11n-40 MHz MIDDLE CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



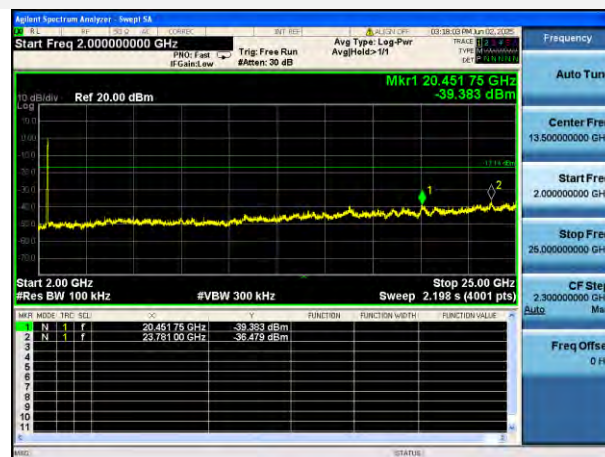
802.11n-40 MHz HIGH CHANNEL CARRIER LEVEL



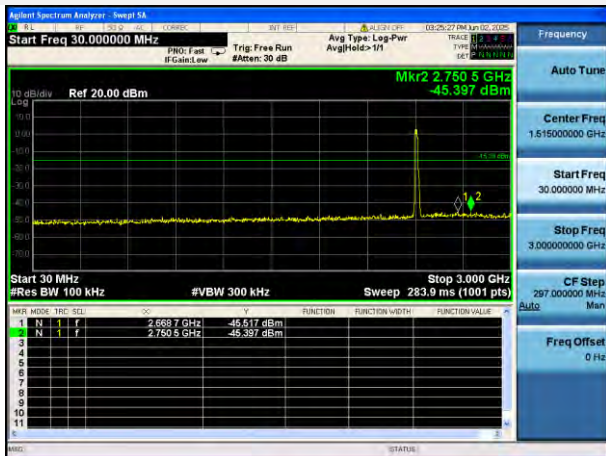
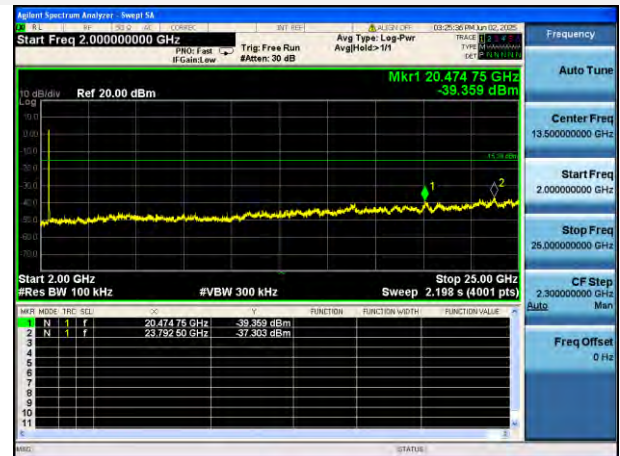
802.11n-40 MHz HIGH CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



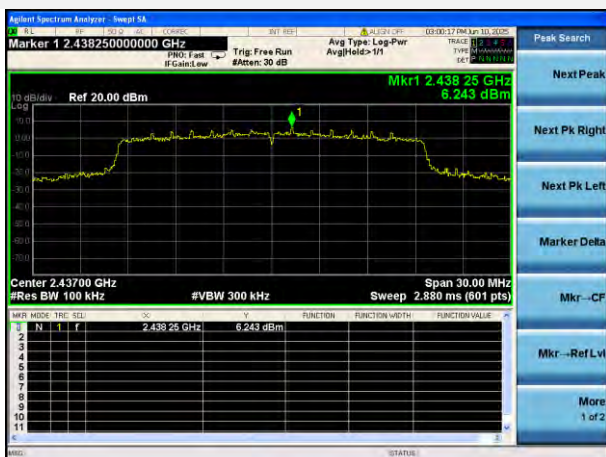
802.11n-40 MHz HIGH CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



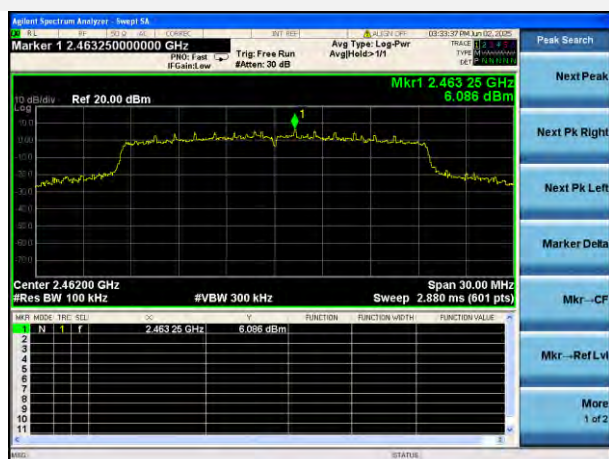
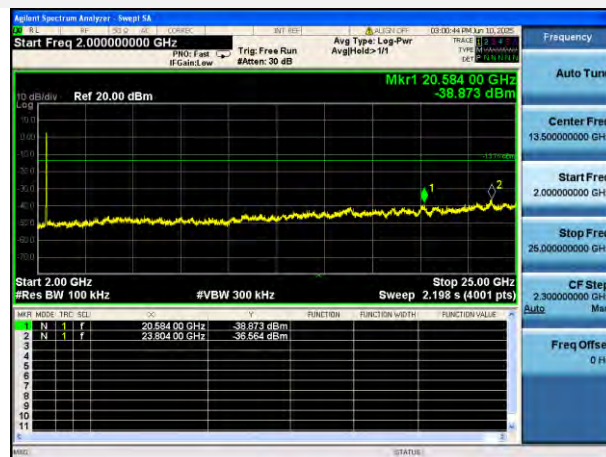
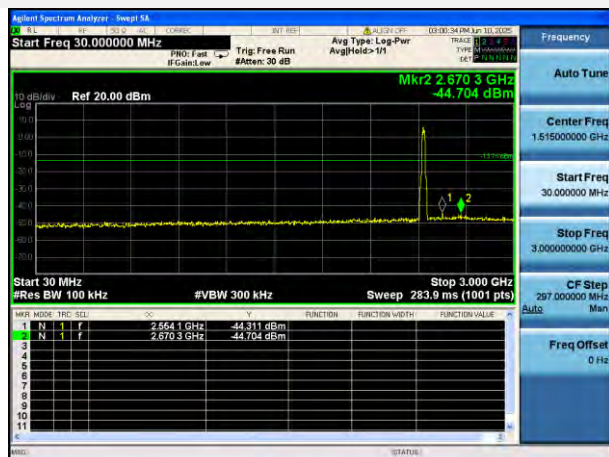
802.11ax-20 MHz(SU) LOW CHANNEL CARRIER LEVEL

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

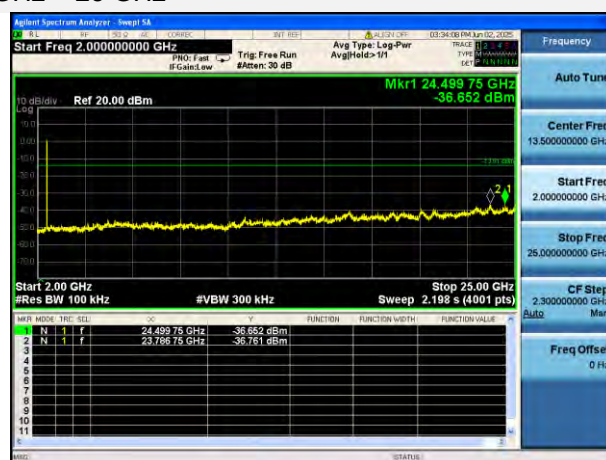
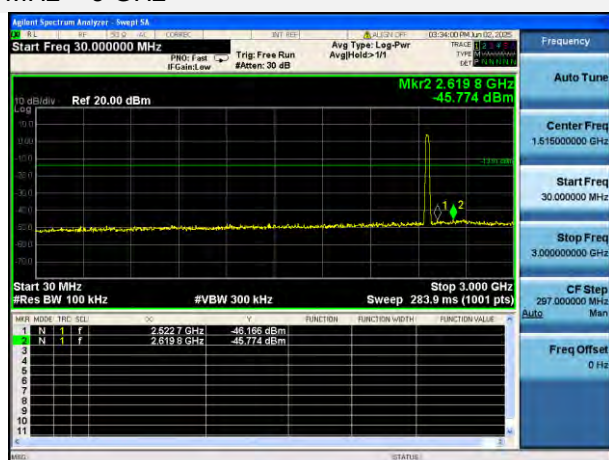
802.11ax-20 MHz(SU) MIDDLE CHANNEL CARRIER LEVEL



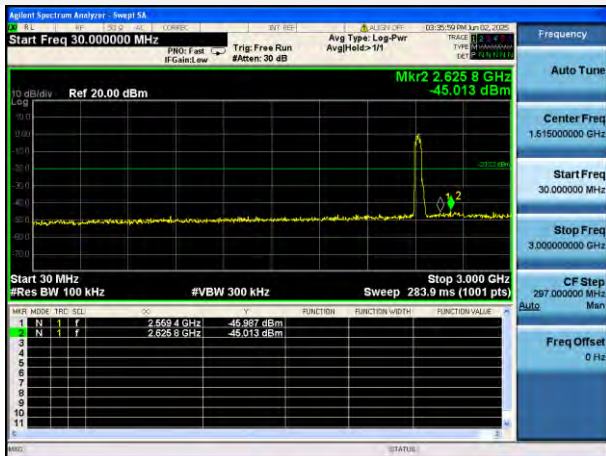
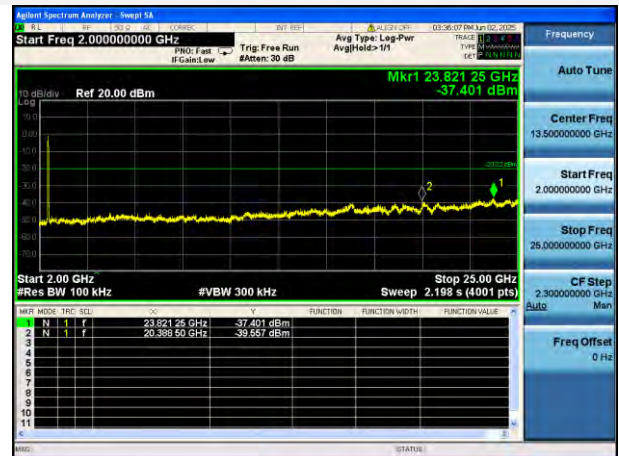
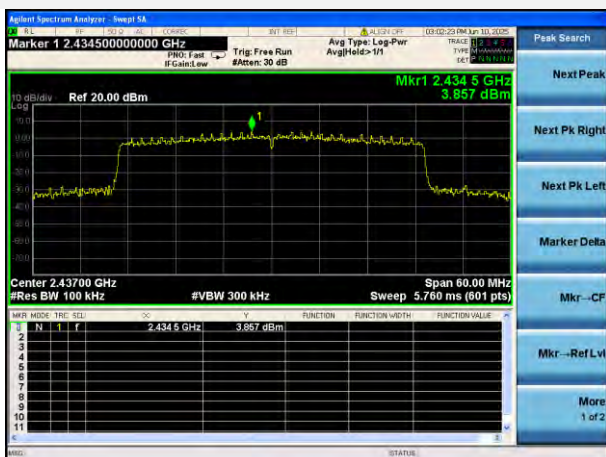
802.11ax-20 MHz(SU) MIDDLE CHANNEL, SPURIOUS
2 GHz ~ 25 GHz



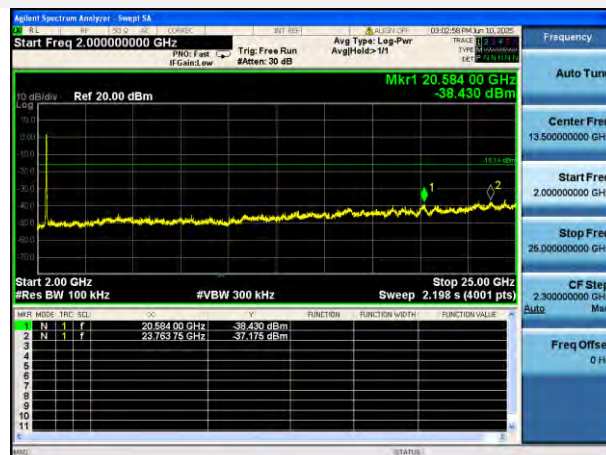
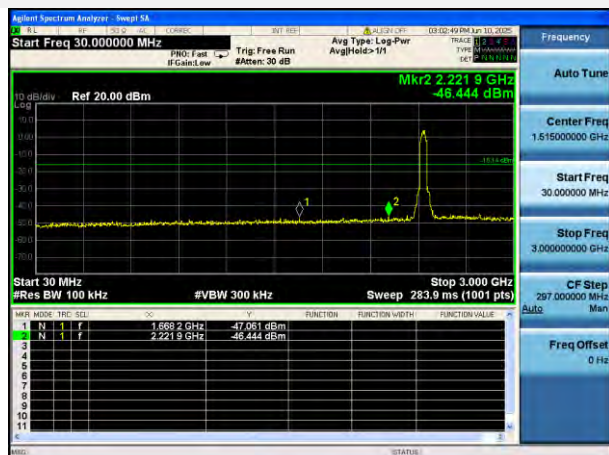
802.11ax-20 MHz(SU) HIGH CHANNEL, SPURIOUS
2 GHz ~ 25 GHz



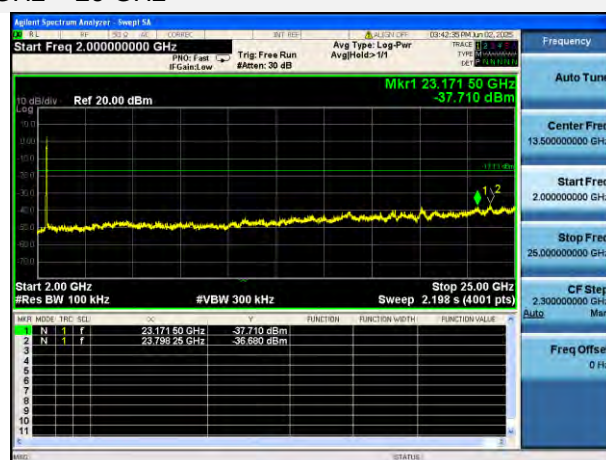
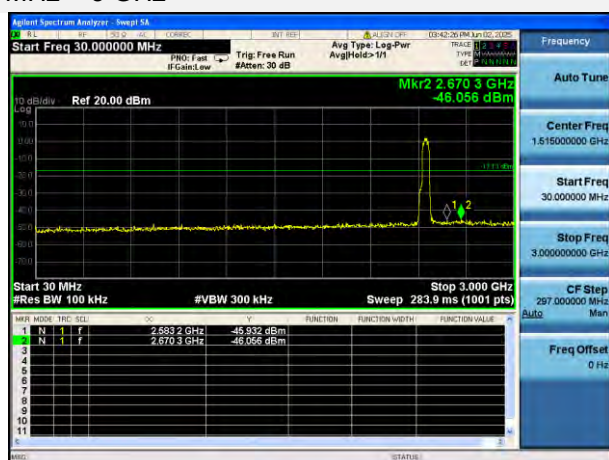
802.11ax-40 MHz(SU) LOW CHANNEL CARRIER LEVEL

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

802.11ax-40 MHz(SU) MIDDLE CHANNEL, SPURIOUS
2 GHz ~ 25 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	-44.63	6.94	-13.06	Pass
High Channel	-47.91	6.85	-13.15	Pass

802.11g Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-40.08	5.81	-14.19	Pass
High Channel	-47.42	6.22	-13.78	Pass

802.11n-20 MHz Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-38.72	5.79	-14.21	Pass
High Channel	-47.54	6.04	-13.96	Pass

802.11n-40 MHz Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-35.53	0.68	-19.32	Pass
High Channel	-44.39	2.86	-17.14	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	-40.91	4.62	-15.38	Pass
High Channel	-47.49	6.09	-13.91	Pass

802.11ax-40 MHz(SU) Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-37.22	-0.32	-20.32	Pass
High Channel	-43.00	2.87	-17.13	Pass

Test Plots

802.11b LOW CHANNEL, CARRIER LEVEL



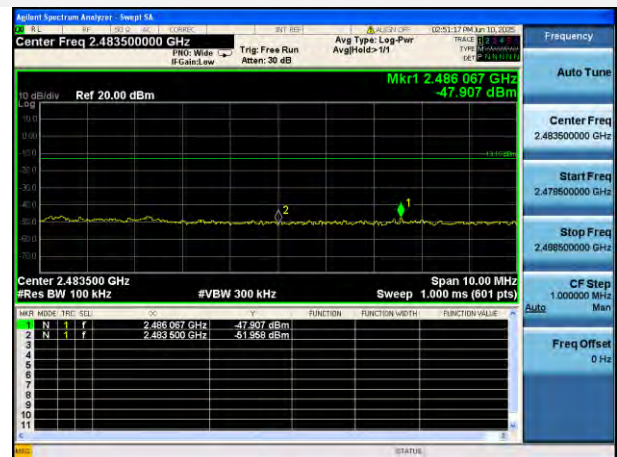
802.11b LOW CHANNEL, BAND EDGE



802.11b HIGH CHANNEL, CARRIER LEVEL



802.11b HIGH CHANNEL, BAND EDGE



802.11g LOW CHANNEL, CARRIER LEVEL



802.11g LOW CHANNEL, BAND EDGE



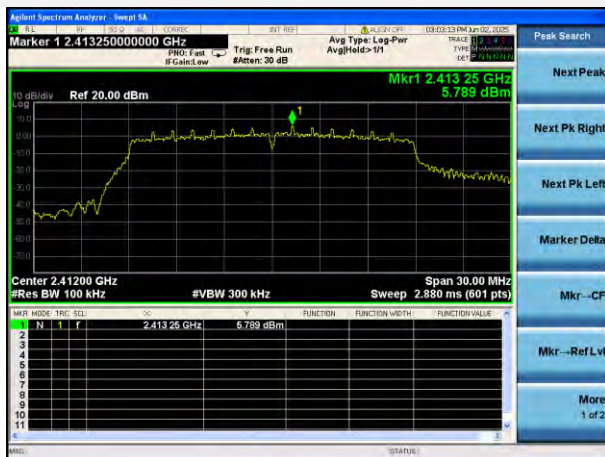
802.11g HIGH CHANNEL, CARRIER LEVEL



802.11g HIGH CHANNEL, BAND EDGE



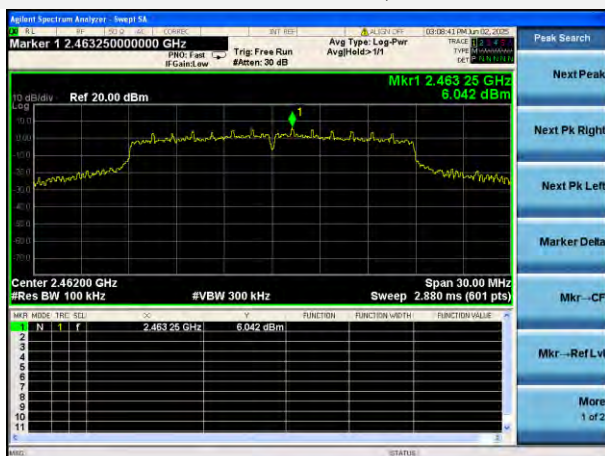
802.11n-20 MHz LOW CHANNEL, CARRIER LEVEL



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, BAND EDGE



802.11n-40 MHz HIGH CHANNEL, BAND EDGE



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



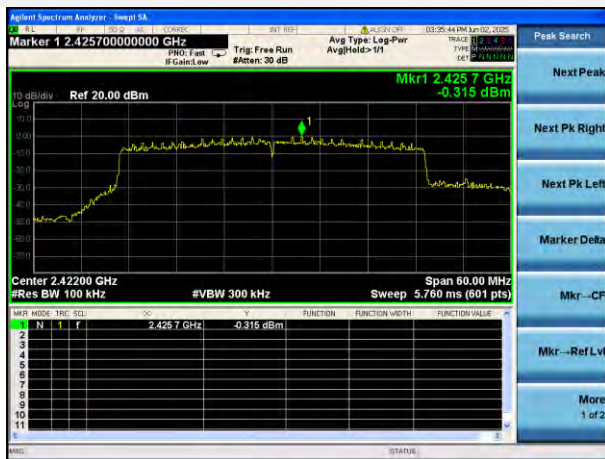
802.11ax-20 MHz(SU) HIGH CHANNEL, CARRIER LEVEL



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



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



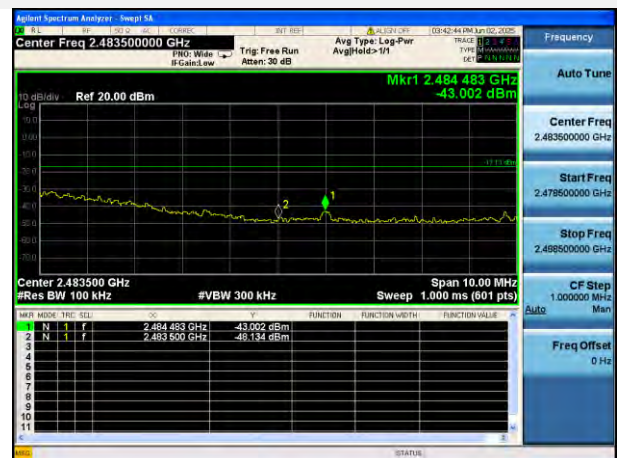
802.11ax-40 MHz(SU) LOW CHANNEL, BAND EDGE



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.

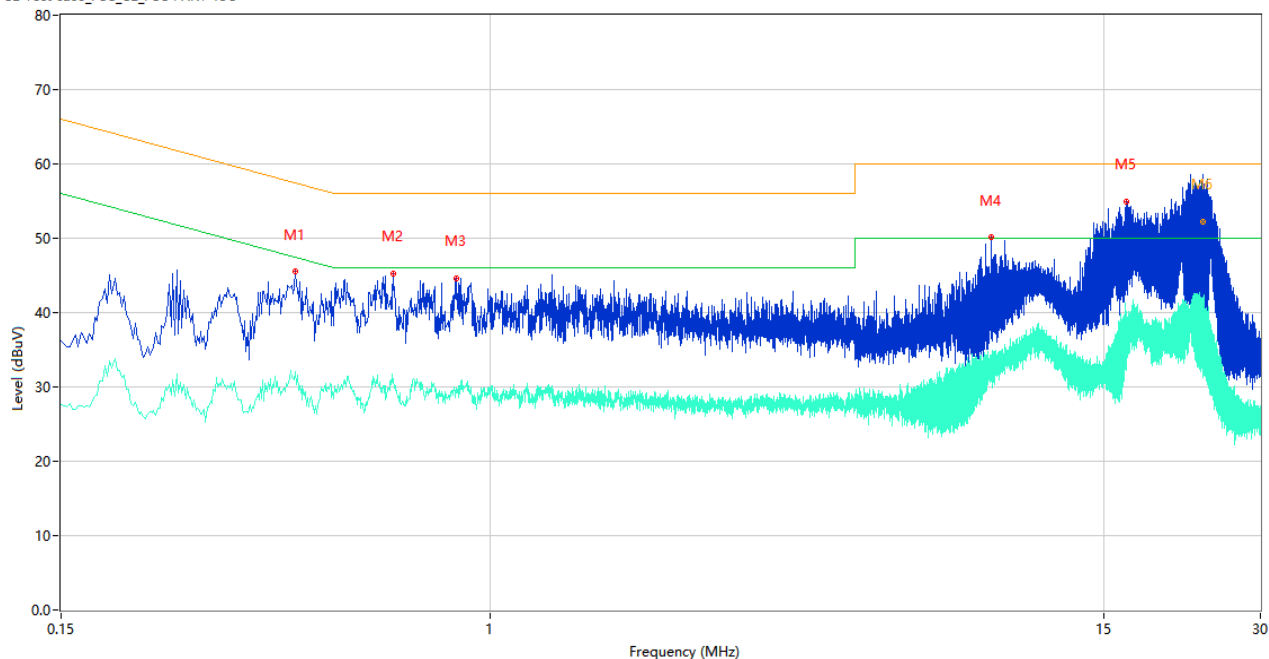
Note ²: Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 60 Hz and 240 VAC, 50 Hz) for which the device is capable of operation. So, The configuration 120 VAC, 60 Hz and 240 VAC, 50 Hz were tested respectively, but only the worst configuration (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

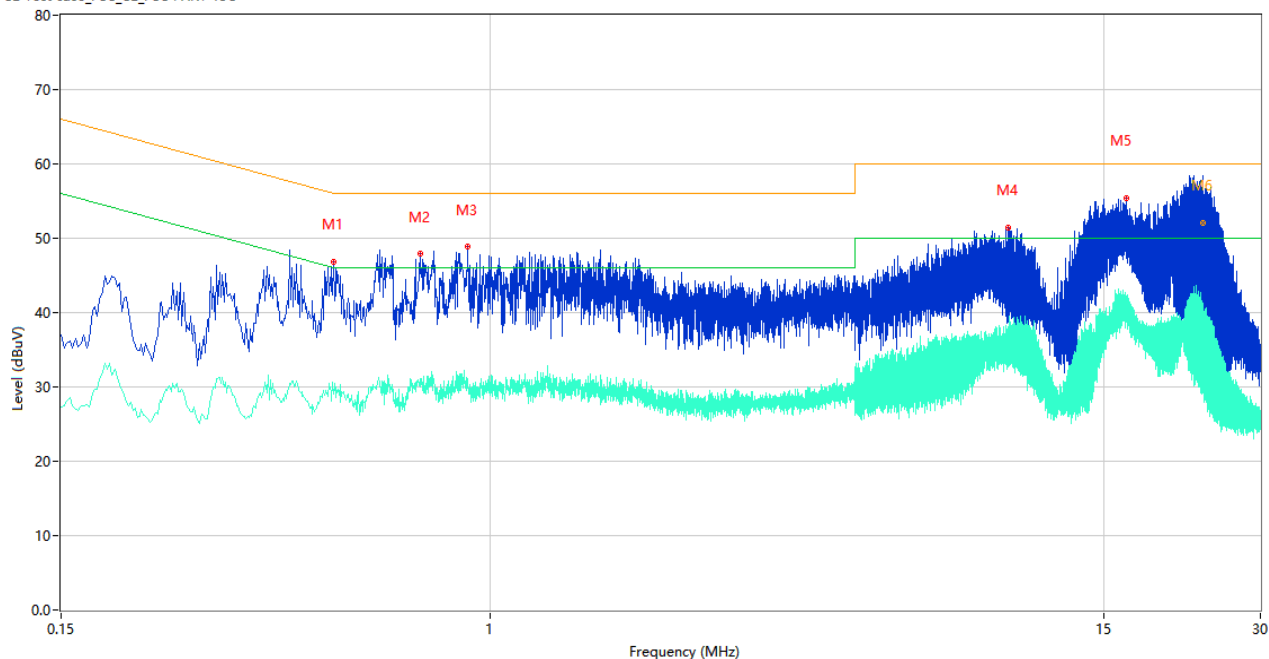
CE Test case_FCC_CE_FCC PART 15C



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.422	45.50	10.38	57.41	11.91	Peak	L	Pass
1**	0.422	32.06	10.38	47.41	15.35	AV	L	Pass
2	0.650	45.27	10.27	56.00	10.73	Peak	L	Pass
2**	0.650	31.12	10.27	46.00	14.88	AV	L	Pass
3	0.862	44.63	10.58	56.00	11.37	Peak	L	Pass
3**	0.862	29.77	10.58	46.00	16.23	AV	L	Pass
4	9.150	50.10	10.51	60.00	9.90	Peak	L	Pass
4**	9.150	32.67	10.51	50.00	17.33	AV	L	Pass
5	16.584	54.93	11.01	60.00	5.07	Peak	L	Pass
5**	16.584	35.57	11.01	50.00	14.43	AV	L	Pass
6	23.288	58.68	11.21	60.00	1.32	Peak	L	N/A
6*	23.288	52.24	11.21	60.00	7.76	QP	L	Pass
6**	23.288	40.46	11.21	50.00	9.54	AV	L	Pass

PHASE N

CE Test case_FCC_CE_FCC PART 15C



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.500	46.90	10.04	56.00	9.10	Peak	N	Pass
1**	0.500	29.04	10.04	46.00	16.96	AV	N	Pass
2	0.732	47.87	10.40	56.00	8.13	Peak	N	Pass
2**	0.732	30.06	10.40	46.00	15.94	AV	N	Pass
3	0.906	48.88	10.23	56.00	7.12	Peak	N	Pass
3**	0.906	31.00	10.23	46.00	15.00	AV	N	Pass
4	9.844	51.46	10.40	60.00	8.54	Peak	N	Pass
4**	9.844	38.08	10.40	50.00	11.92	AV	N	Pass
5	16.568	55.39	10.99	60.00	4.61	Peak	N	Pass
5**	16.568	39.75	10.99	50.00	10.25	AV	N	Pass
6	23.320	58.13	11.10	60.00	1.87	Peak	N	N/A
6*	23.320	51.99	11.10	60.00	8.01	QP	N	Pass
6**	23.320	38.38	11.10	50.00	11.62	AV	N	Pass

A.6 Radiated Emission

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

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

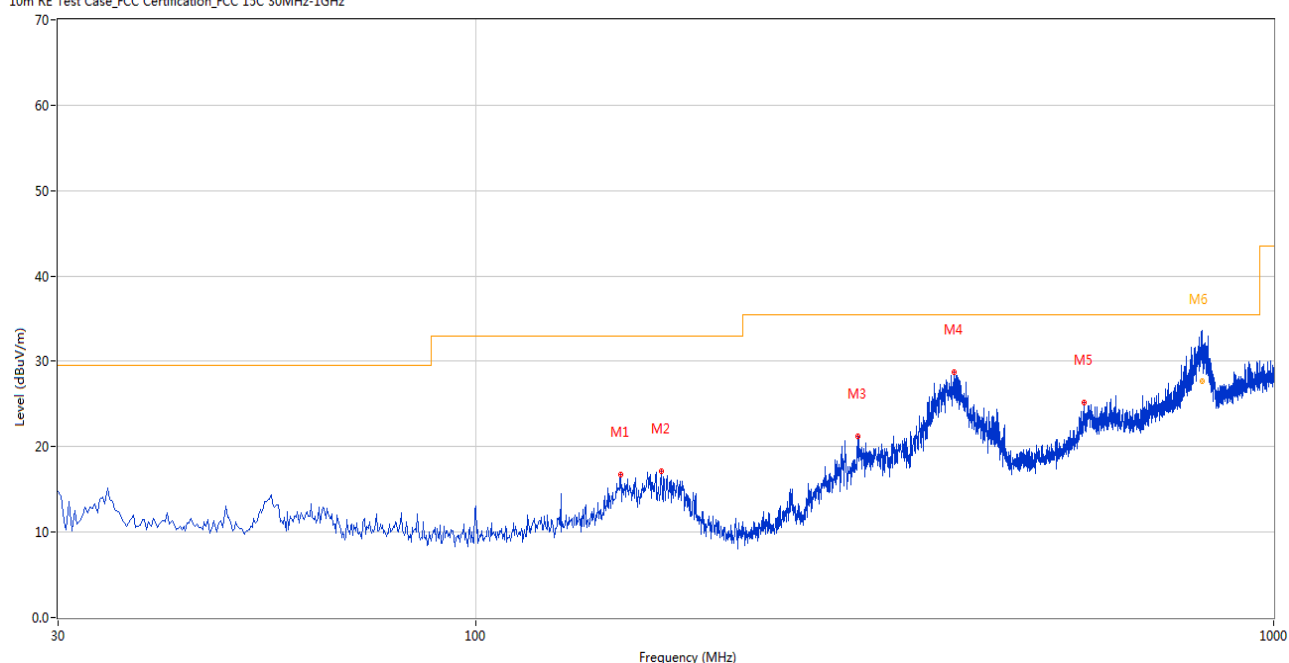
Note³: The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.

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

Test Data and Plots

30 MHz to 1 GHz, ANT H

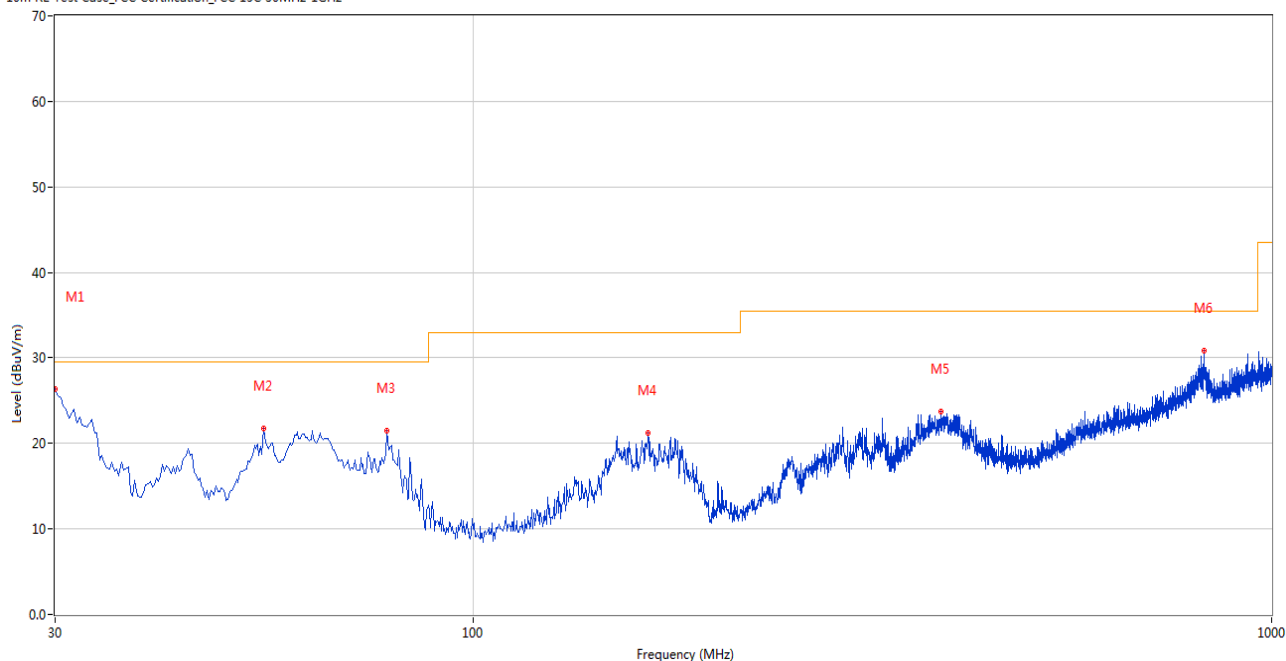
10m RE Test Case_FCC Certification_FCC 15C 30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	152.189	16.73	-26.26	33.0	16.27	Peak	302.00	200	Horizontal	Pass
2	171.100	17.14	-26.98	33.0	15.86	Peak	308.00	200	Horizontal	Pass
3	301.290	21.25	-25.43	35.5	14.25	Peak	270.00	200	Horizontal	Pass
4	398.265	28.71	-22.90	35.5	6.79	Peak	270.00	200	Horizontal	Pass
5	579.610	25.15	-17.65	35.5	10.35	Peak	345.00	200	Horizontal	Pass
6	813.322	33.67	-12.31	35.5	1.83	Peak	232.00	100	Horizontal	N/A
6*	813.322	27.69	-12.31	35.5	7.81	QP	232.00	100	Horizontal	Pass

30 MHz to 1 GHz, ANT V

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



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	30.000	26.37	-26.83	29.5	3.13	Peak	360.00	200	Vertical	Pass
2	54.729	21.80	-27.13	29.5	7.70	Peak	360.00	200	Vertical	Pass
3	78.003	21.52	-29.89	29.5	7.98	Peak	356.00	100	Vertical	Pass
4	165.766	21.17	-26.22	33.0	11.83	Peak	0.00	100	Vertical	Pass
5	385.416	23.70	-23.00	35.5	11.80	Peak	360.00	200	Vertical	Pass
6	822.777	30.83	-11.93	35.5	4.67	Peak	237.00	200	Vertical	Pass

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

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

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1330.314	46.01	74.0	27.99	Peak	334.00	300	Horizontal	Pass
1**	1330.314	36.51	54.0	17.49	AV	334.00	300	Horizontal	Pass
2	2998.475	50.93	74.0	23.07	Peak	80.00	200	Horizontal	Pass
2**	2998.475	44.30	54.0	9.70	AV	80.00	200	Horizontal	Pass
3	4935.402	49.04	74.0	24.96	Peak	187.00	200	Horizontal	Pass
3**	4935.402	43.15	54.0	10.85	AV	187.00	200	Horizontal	Pass
4	6808.623	53.89	74.0	20.11	Peak	103.00	100	Horizontal	Pass
4**	6808.623	43.89	54.0	10.11	AV	103.00	100	Horizontal	Pass
5	13412.457	58.20	74.0	15.80	Peak	6.00	300	Horizontal	Pass
5**	13412.457	45.68	54.0	8.32	AV	6.00	300	Horizontal	Pass
6	17428.004	54.96	74.0	19.04	Peak	162.00	200	Horizontal	Pass
6**	17428.004	47.66	54.0	6.34	AV	162.00	200	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	1336.771	43.20	74.0	30.80	Peak	73.00	200	Vertical	Pass
1**	1336.771	37.63	54.0	16.37	AV	73.00	200	Vertical	Pass
2	2981.218	50.81	74.0	23.19	Peak	270.00	100	Vertical	Pass
2**	2981.218	43.57	54.0	10.43	AV	270.00	100	Vertical	Pass
3	4850.741	51.16	74.0	22.84	Peak	241.00	200	Vertical	Pass
3**	4850.741	39.62	54.0	14.38	AV	241.00	200	Vertical	Pass
4	6605.044	55.14	74.0	18.86	Peak	275.00	400	Vertical	Pass
4**	6605.044	45.39	54.0	8.61	AV	275.00	400	Vertical	Pass
5	13433.540	52.79	74.0	21.21	Peak	248.00	200	Vertical	Pass
5**	13433.540	46.82	54.0	7.18	AV	248.00	200	Vertical	Pass
6	17414.151	59.09	74.0	14.91	Peak	34.00	400	Vertical	Pass
6**	17414.151	46.60	54.0	7.40	AV	34.00	400	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	1328.032	47.18	74.0	26.82	Peak	256.00	200	Horizontal	Pass
1**	1328.032	38.30	54.0	15.70	AV	256.00	200	Horizontal	Pass
2	2992.804	53.02	74.0	20.98	Peak	271.00	200	Horizontal	Pass
2**	2992.804	41.74	54.0	12.26	AV	271.00	200	Horizontal	Pass
3	4935.795	50.87	74.0	23.13	Peak	161.00	200	Horizontal	Pass
3**	4935.795	40.88	54.0	13.12	AV	161.00	200	Horizontal	Pass
4	6805.296	52.45	74.0	21.55	Peak	103.00	200	Horizontal	Pass
4**	6805.296	46.40	54.0	7.60	AV	103.00	200	Horizontal	Pass
5	13409.074	57.85	74.0	16.15	Peak	238.00	200	Horizontal	Pass
5**	13409.074	49.42	54.0	4.58	AV	238.00	200	Horizontal	Pass
6	17422.498	58.68	74.0	15.32	Peak	198.00	100	Horizontal	Pass
6**	17422.498	44.67	54.0	9.33	AV	198.00	100	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1333.842	46.05	74.0	27.95	Peak	359.00	300	Vertical	Pass
1**	1333.842	37.90	54.0	16.10	AV	359.00	300	Vertical	Pass
2	2982.102	53.34	74.0	20.66	Peak	315.00	100	Vertical	Pass
2**	2982.102	40.74	54.0	13.26	AV	315.00	100	Vertical	Pass
3	4857.219	52.37	74.0	21.63	Peak	222.00	200	Vertical	Pass
3**	4857.219	42.87	54.0	11.13	AV	222.00	200	Vertical	Pass
4	6609.620	56.37	74.0	17.63	Peak	111.00	100	Vertical	Pass
4**	6609.620	47.11	54.0	6.89	AV	111.00	100	Vertical	Pass
5	13435.923	58.24	74.0	15.76	Peak	99.00	300	Vertical	Pass
5**	13435.923	45.93	54.0	8.07	AV	99.00	300	Vertical	Pass
6	17418.639	54.42	74.0	19.58	Peak	88.00	200	Vertical	Pass
6**	17418.639	45.89	54.0	8.11	AV	88.00	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	1331.518	43.83	74.0	30.17	Peak	303.00	400	Horizontal	Pass
1**	1331.518	38.35	54.0	15.65	AV	303.00	400	Horizontal	Pass
2	2992.981	53.12	74.0	20.88	Peak	67.00	400	Horizontal	Pass
2**	2992.981	42.70	54.0	11.30	AV	67.00	400	Horizontal	Pass
3	4934.193	52.70	74.0	21.30	Peak	200.00	200	Horizontal	Pass
3**	4934.193	39.16	54.0	14.84	AV	200.00	200	Horizontal	Pass
4	6806.586	55.36	74.0	18.64	Peak	356.00	100	Horizontal	Pass
4**	6806.586	44.98	54.0	9.02	AV	356.00	100	Horizontal	Pass
5	13410.536	52.68	74.0	21.32	Peak	53.00	100	Horizontal	Pass
5**	13410.536	46.01	54.0	7.99	AV	53.00	100	Horizontal	Pass
6	17425.476	55.71	74.0	18.29	Peak	198.00	100	Horizontal	Pass
6**	17425.476	47.07	54.0	6.93	AV	198.00	100	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1330.476	44.23	74.0	29.77	Peak	344.00	200	Vertical	Pass
1**	1330.476	40.33	54.0	13.67	AV	344.00	200	Vertical	Pass
2	2978.421	50.18	74.0	23.82	Peak	129.00	100	Vertical	Pass
2**	2978.421	39.17	54.0	14.83	AV	129.00	100	Vertical	Pass
3	4851.846	49.70	74.0	24.30	Peak	344.00	200	Vertical	Pass
3**	4851.846	41.84	54.0	12.16	AV	344.00	200	Vertical	Pass
4	6606.936	53.83	74.0	20.17	Peak	204.00	300	Vertical	Pass
4**	6606.936	44.37	54.0	9.63	AV	204.00	300	Vertical	Pass
5	13432.940	56.51	74.0	17.49	Peak	221.00	300	Vertical	Pass
5**	13432.940	45.82	54.0	8.18	AV	221.00	300	Vertical	Pass
6	17417.964	55.85	74.0	18.15	Peak	170.00	400	Vertical	Pass
6**	17417.964	48.00	54.0	6.00	AV	170.00	400	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	1327.083	46.16	74.0	27.84	Peak	273.00	200	Horizontal	Pass
1**	1327.083	36.38	54.0	17.62	AV	273.00	200	Horizontal	Pass
2	3000.239	50.66	74.0	23.34	Peak	57.00	400	Horizontal	Pass
2**	3000.239	42.76	54.0	11.24	AV	57.00	400	Horizontal	Pass
3	4936.264	54.35	74.0	19.65	Peak	142.00	200	Horizontal	Pass
3**	4936.264	44.54	54.0	9.46	AV	142.00	200	Horizontal	Pass
4	6809.036	57.44	74.0	16.56	Peak	325.00	100	Horizontal	Pass
4**	6809.036	42.73	54.0	11.27	AV	325.00	100	Horizontal	Pass
5	13411.243	56.81	74.0	17.19	Peak	103.00	400	Horizontal	Pass
5**	13411.243	48.13	54.0	5.87	AV	103.00	400	Horizontal	Pass
6	17422.540	56.31	74.0	17.69	Peak	69.00	300	Horizontal	Pass
6**	17422.540	45.29	54.0	8.71	AV	69.00	300	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1333.373	47.88	74.0	26.12	Peak	135.00	300	Vertical	Pass
1**	1333.373	40.55	54.0	13.45	AV	135.00	300	Vertical	Pass
2	2981.692	49.50	74.0	24.50	Peak	135.00	400	Vertical	Pass
2**	2981.692	44.54	54.0	9.46	AV	135.00	400	Vertical	Pass
3	4852.353	51.42	74.0	22.58	Peak	58.00	200	Vertical	Pass
3**	4852.353	37.70	54.0	16.30	AV	58.00	200	Vertical	Pass
4	6609.847	54.15	74.0	19.85	Peak	223.00	100	Vertical	Pass
4**	6609.847	47.62	54.0	6.38	AV	223.00	100	Vertical	Pass
5	13432.666	57.17	74.0	16.83	Peak	258.00	200	Vertical	Pass
5**	13432.666	49.26	54.0	4.74	AV	258.00	200	Vertical	Pass
6	17417.139	58.67	74.0	15.33	Peak	139.00	200	Vertical	Pass
6**	17417.139	49.73	54.0	4.27	AV	139.00	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	1330.820	42.53	74.0	31.47	Peak	36.00	200	Horizontal	Pass
1**	1330.820	34.41	54.0	19.59	AV	36.00	200	Horizontal	Pass
2	2999.093	48.33	74.0	25.67	Peak	223.00	100	Horizontal	Pass
2**	2999.093	41.06	54.0	12.94	AV	223.00	100	Horizontal	Pass
3	4931.236	53.53	74.0	20.47	Peak	130.00	200	Horizontal	Pass
3**	4931.236	38.84	54.0	15.16	AV	130.00	200	Horizontal	Pass
4	6809.281	56.20	74.0	17.80	Peak	25.00	300	Horizontal	Pass
4**	6809.281	43.24	54.0	10.76	AV	25.00	300	Horizontal	Pass
5	13407.515	56.45	74.0	17.55	Peak	256.00	100	Horizontal	Pass
5**	13407.515	44.89	54.0	9.11	AV	256.00	100	Horizontal	Pass
6	17426.671	58.24	74.0	15.76	Peak	261.00	400	Horizontal	Pass
6**	17426.671	47.86	54.0	6.14	AV	261.00	400	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	1336.533	45.57	74.0	28.43	Peak	6.00	200	Vertical	Pass
1**	1336.533	38.60	54.0	15.40	AV	6.00	200	Vertical	Pass
2	2979.761	51.24	74.0	22.76	Peak	148.00	200	Vertical	Pass
2**	2979.761	39.38	54.0	14.62	AV	148.00	200	Vertical	Pass
3	4854.340	50.93	74.0	23.07	Peak	111.00	200	Vertical	Pass
3**	4854.340	38.44	54.0	15.56	AV	111.00	200	Vertical	Pass
4	6603.416	51.53	74.0	22.47	Peak	17.00	300	Vertical	Pass
4**	6603.416	47.20	54.0	6.80	AV	17.00	300	Vertical	Pass
5	13431.496	53.14	74.0	20.86	Peak	303.00	300	Vertical	Pass
5**	13431.496	44.41	54.0	9.59	AV	303.00	300	Vertical	Pass
6	17417.287	58.55	74.0	15.45	Peak	169.00	400	Vertical	Pass
6**	17417.287	48.93	54.0	5.07	AV	169.00	400	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1331.133	41.81	74.0	32.19	Peak	265.00	200	Horizontal	Pass
1**	1331.133	38.78	54.0	15.22	AV	265.00	200	Horizontal	Pass
2	2998.795	50.54	74.0	23.46	Peak	216.00	100	Horizontal	Pass
2**	2998.795	40.75	54.0	13.25	AV	216.00	100	Horizontal	Pass
3	4933.613	53.10	74.0	20.90	Peak	25.00	200	Horizontal	Pass
3**	4933.613	39.89	54.0	14.11	AV	25.00	200	Horizontal	Pass
4	6805.508	54.63	74.0	19.37	Peak	346.00	100	Horizontal	Pass
4**	6805.508	42.09	54.0	11.91	AV	346.00	100	Horizontal	Pass
5	13408.656	54.38	74.0	19.62	Peak	313.00	400	Horizontal	Pass
5**	13408.656	46.20	54.0	7.80	AV	313.00	400	Horizontal	Pass
6	17425.652	56.12	74.0	17.88	Peak	25.00	300	Horizontal	Pass
6**	17425.652	46.01	54.0	7.99	AV	25.00	300	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1335.129	42.39	74.0	31.61	Peak	290.00	300	Vertical	Pass
1**	1335.129	38.33	54.0	15.67	AV	290.00	300	Vertical	Pass
2	2983.538	49.93	74.0	24.07	Peak	90.00	200	Vertical	Pass
2**	2983.538	38.94	54.0	15.06	AV	90.00	200	Vertical	Pass
3	4857.719	50.64	74.0	23.36	Peak	12.00	200	Vertical	Pass
3**	4857.719	40.49	54.0	13.51	AV	12.00	200	Vertical	Pass
4	6605.999	51.71	74.0	22.29	Peak	306.00	400	Vertical	Pass
4**	6605.999	43.48	54.0	10.52	AV	306.00	400	Vertical	Pass
5	13436.980	52.45	74.0	21.55	Peak	37.00	200	Vertical	Pass
5**	13436.980	47.30	54.0	6.70	AV	37.00	200	Vertical	Pass
6	17418.349	56.97	74.0	17.03	Peak	90.00	100	Vertical	Pass
6**	17418.349	45.56	54.0	8.44	AV	90.00	100	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1329.661	46.52	74.0	27.48	Peak	163.00	400	Horizontal	Pass
1**	1329.661	34.35	54.0	19.65	AV	163.00	400	Horizontal	Pass
2	2997.801	49.67	74.0	24.33	Peak	59.00	100	Horizontal	Pass
2**	2997.801	44.03	54.0	9.97	AV	59.00	100	Horizontal	Pass
3	4934.727	49.64	74.0	24.36	Peak	196.00	200	Horizontal	Pass
3**	4934.727	39.76	54.0	14.24	AV	196.00	200	Horizontal	Pass
4	6810.669	51.51	74.0	22.49	Peak	293.00	400	Horizontal	Pass
4**	6810.669	42.11	54.0	11.89	AV	293.00	400	Horizontal	Pass
5	13410.571	54.52	74.0	19.48	Peak	310.00	300	Horizontal	Pass
5**	13410.571	45.53	54.0	8.47	AV	310.00	300	Horizontal	Pass
6	17426.765	53.77	74.0	20.23	Peak	12.00	400	Horizontal	Pass
6**	17426.765	46.55	54.0	7.45	AV	12.00	400	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1330.217	45.32	74.0	28.68	Peak	354.00	100	Vertical	Pass
1**	1330.217	40.45	54.0	13.55	AV	354.00	100	Vertical	Pass
2	2985.402	50.66	74.0	23.34	Peak	167.00	100	Vertical	Pass
2**	2985.402	43.54	54.0	10.46	AV	167.00	100	Vertical	Pass
3	4854.648	51.64	74.0	22.36	Peak	165.00	200	Vertical	Pass
3**	4854.648	39.72	54.0	14.28	AV	165.00	200	Vertical	Pass
4	6608.310	53.76	74.0	20.24	Peak	358.00	400	Vertical	Pass
4**	6608.310	44.27	54.0	9.73	AV	358.00	400	Vertical	Pass
5	13432.027	54.08	74.0	19.92	Peak	333.00	400	Vertical	Pass
5**	13432.027	46.61	54.0	7.39	AV	333.00	400	Vertical	Pass
6	17417.227	58.59	74.0	15.41	Peak	245.00	400	Vertical	Pass
6**	17417.227	46.53	54.0	7.47	AV	245.00	400	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1332.695	42.49	74.0	31.51	Peak	230.00	300	Horizontal	Pass
1**	1332.695	36.57	54.0	17.43	AV	230.00	300	Horizontal	Pass
2	3000.350	51.52	74.0	22.48	Peak	52.00	400	Horizontal	Pass
2**	3000.350	39.94	54.0	14.06	AV	52.00	400	Horizontal	Pass
3	4934.730	49.81	74.0	24.19	Peak	41.00	200	Horizontal	Pass
3**	4934.730	39.85	54.0	14.15	AV	41.00	200	Horizontal	Pass
4	6806.285	53.75	74.0	20.25	Peak	6.00	300	Horizontal	Pass
4**	6806.285	46.53	54.0	7.47	AV	6.00	300	Horizontal	Pass
5	13413.651	56.83	74.0	17.17	Peak	171.00	400	Horizontal	Pass
5**	13413.651	44.29	54.0	9.71	AV	171.00	400	Horizontal	Pass
6	17423.668	54.38	74.0	19.62	Peak	63.00	100	Horizontal	Pass
6**	17423.668	49.85	54.0	4.15	AV	63.00	100	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	1329.980	43.02	74.0	30.98	Peak	246.00	400	Vertical	Pass
1**	1329.980	37.63	54.0	16.37	AV	246.00	400	Vertical	Pass
2	2985.354	52.61	74.0	21.39	Peak	141.00	100	Vertical	Pass
2**	2985.354	40.55	54.0	13.45	AV	141.00	100	Vertical	Pass
3	4852.877	47.59	74.0	26.41	Peak	1.00	200	Vertical	Pass
3**	4852.877	39.18	54.0	14.82	AV	1.00	200	Vertical	Pass
4	6610.506	52.84	74.0	21.16	Peak	343.00	400	Vertical	Pass
4**	6610.506	42.14	54.0	11.86	AV	343.00	400	Vertical	Pass
5	13433.464	54.17	74.0	19.83	Peak	2.00	300	Vertical	Pass
5**	13433.464	47.83	54.0	6.17	AV	2.00	300	Vertical	Pass
6	17413.086	59.43	74.0	14.57	Peak	65.00	100	Vertical	Pass
6**	17413.086	44.34	54.0	9.66	AV	65.00	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	1330.291	45.17	74.0	28.83	Peak	192.00	400	Horizontal	Pass
1**	1330.291	36.13	54.0	17.87	AV	192.00	400	Horizontal	Pass
2	2998.887	52.85	74.0	21.15	Peak	330.00	100	Horizontal	Pass
2**	2998.887	39.95	54.0	14.05	AV	330.00	100	Horizontal	Pass
3	4934.930	51.21	74.0	22.79	Peak	314.00	200	Horizontal	Pass
3**	4934.930	39.43	54.0	14.57	AV	314.00	200	Horizontal	Pass
4	6805.748	56.21	74.0	17.79	Peak	280.00	100	Horizontal	Pass
4**	6805.748	41.85	54.0	12.15	AV	280.00	100	Horizontal	Pass
5	13408.022	55.12	74.0	18.88	Peak	93.00	400	Horizontal	Pass
5**	13408.022	43.55	54.0	10.45	AV	93.00	400	Horizontal	Pass
6	17428.085	58.26	74.0	15.74	Peak	272.00	300	Horizontal	Pass
6**	17428.085	50.41	54.0	3.59	AV	272.00	300	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	1334.434	42.42	74.0	31.58	Peak	177.00	300	Vertical	Pass
1**	1334.434	39.61	54.0	14.39	AV	177.00	300	Vertical	Pass
2	2979.798	51.42	74.0	22.58	Peak	148.00	400	Vertical	Pass
2**	2979.798	39.51	54.0	14.49	AV	148.00	400	Vertical	Pass
3	4853.484	48.69	74.0	25.31	Peak	114.00	200	Vertical	Pass
3**	4853.484	38.66	54.0	15.34	AV	114.00	200	Vertical	Pass
4	6603.460	56.54	74.0	17.46	Peak	329.00	200	Vertical	Pass
4**	6603.460	43.59	54.0	10.41	AV	329.00	200	Vertical	Pass
5	13432.172	54.79	74.0	19.21	Peak	156.00	200	Vertical	Pass
5**	13432.172	45.51	54.0	8.49	AV	156.00	200	Vertical	Pass
6	17417.791	58.41	74.0	15.59	Peak	123.00	100	Vertical	Pass
6**	17417.791	45.31	54.0	8.69	AV	123.00	100	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1333.232	42.53	74.0	31.47	Peak	195.00	200	Horizontal	Pass
1**	1333.232	38.57	54.0	15.43	AV	195.00	200	Horizontal	Pass
2	2998.046	52.88	74.0	21.12	Peak	268.00	200	Horizontal	Pass
2**	2998.046	39.10	54.0	14.90	AV	268.00	200	Horizontal	Pass
3	4931.789	49.56	74.0	24.44	Peak	254.00	200	Horizontal	Pass
3**	4931.789	43.65	54.0	10.35	AV	254.00	200	Horizontal	Pass
4	6807.966	51.63	74.0	22.37	Peak	56.00	300	Horizontal	Pass
4**	6807.966	42.31	54.0	11.69	AV	56.00	300	Horizontal	Pass
5	13412.994	55.99	74.0	18.01	Peak	359.00	300	Horizontal	Pass
5**	13412.994	46.94	54.0	7.06	AV	359.00	300	Horizontal	Pass
6	17425.381	56.42	74.0	17.58	Peak	50.00	400	Horizontal	Pass
6**	17425.381	48.57	54.0	5.43	AV	50.00	400	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	1335.847	43.68	74.0	30.32	Peak	195.00	200	Vertical	Pass
1**	1335.847	35.36	54.0	18.64	AV	195.00	200	Vertical	Pass
2	2979.691	49.50	74.0	24.50	Peak	190.00	100	Vertical	Pass
2**	2979.691	42.67	54.0	11.33	AV	190.00	100	Vertical	Pass
3	4850.865	46.94	74.0	27.06	Peak	78.00	200	Vertical	Pass
3**	4850.865	41.98	54.0	12.02	AV	78.00	200	Vertical	Pass
4	6604.887	54.64	74.0	19.36	Peak	13.00	300	Vertical	Pass
4**	6604.887	43.24	54.0	10.76	AV	13.00	300	Vertical	Pass
5	13435.713	56.62	74.0	17.38	Peak	74.00	300	Vertical	Pass
5**	13435.713	47.30	54.0	6.70	AV	74.00	300	Vertical	Pass
6	17418.073	56.44	74.0	17.56	Peak	271.00	200	Vertical	Pass
6**	17418.073	49.38	54.0	4.62	AV	271.00	200	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	1333.523	46.14	74.0	27.86	Peak	346.00	200	Horizontal	Pass
1**	1333.523	34.42	54.0	19.58	AV	346.00	200	Horizontal	Pass
2	2993.295	52.87	74.0	21.13	Peak	179.00	400	Horizontal	Pass
2**	2993.295	40.26	54.0	13.74	AV	179.00	400	Horizontal	Pass
3	4931.131	51.17	74.0	22.83	Peak	192.00	200	Horizontal	Pass
3**	4931.131	38.91	54.0	15.09	AV	192.00	200	Horizontal	Pass
4	6810.604	51.59	74.0	22.41	Peak	277.00	100	Horizontal	Pass
4**	6810.604	46.85	54.0	7.15	AV	277.00	100	Horizontal	Pass
5	13413.256	56.47	74.0	17.53	Peak	334.00	100	Horizontal	Pass
5**	13413.256	44.50	54.0	9.50	AV	334.00	100	Horizontal	Pass
6	17430.000	53.95	74.0	20.05	Peak	7.00	200	Horizontal	Pass
6**	17430.000	50.06	54.0	3.94	AV	7.00	200	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1330.119	45.11	74.0	28.89	Peak	301.00	100	Vertical	Pass
1**	1330.119	39.09	54.0	14.91	AV	301.00	100	Vertical	Pass
2	2985.939	49.89	74.0	24.11	Peak	35.00	400	Vertical	Pass
2**	2985.939	43.62	54.0	10.38	AV	35.00	400	Vertical	Pass
3	4856.342	47.17	74.0	26.83	Peak	223.00	200	Vertical	Pass
3**	4856.342	38.91	54.0	15.09	AV	223.00	200	Vertical	Pass
4	6610.195	54.75	74.0	19.25	Peak	38.00	100	Vertical	Pass
4**	6610.195	47.67	54.0	6.33	AV	38.00	100	Vertical	Pass
5	13438.030	56.37	74.0	17.63	Peak	83.00	400	Vertical	Pass
5**	13438.030	46.79	54.0	7.21	AV	83.00	400	Vertical	Pass
6	17414.770	54.20	74.0	19.80	Peak	346.00	200	Vertical	Pass
6**	17414.770	46.64	54.0	7.36	AV	346.00	200	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1330.298	43.09	74.0	30.91	Peak	24.00	400	Horizontal	Pass
1**	1330.298	34.30	54.0	19.70	AV	24.00	400	Horizontal	Pass
2	2999.023	48.92	74.0	25.08	Peak	148.00	100	Horizontal	Pass
2**	2999.023	42.92	54.0	11.08	AV	148.00	100	Horizontal	Pass
3	4936.838	53.06	74.0	20.94	Peak	280.00	200	Horizontal	Pass
3**	4936.838	40.78	54.0	13.22	AV	280.00	200	Horizontal	Pass
4	6803.597	54.25	74.0	19.75	Peak	360.00	200	Horizontal	Pass
4**	6803.597	42.26	54.0	11.74	AV	360.00	200	Horizontal	Pass
5	13411.706	52.75	74.0	21.25	Peak	84.00	300	Horizontal	Pass
5**	13411.706	49.14	54.0	4.86	AV	84.00	300	Horizontal	Pass
6	17426.676	56.45	74.0	17.55	Peak	357.00	300	Horizontal	Pass
6**	17426.676	47.89	54.0	6.11	AV	357.00	300	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1329.829	43.27	74.0	30.73	Peak	262.00	300	Vertical	Pass
1**	1329.829	36.84	54.0	17.16	AV	262.00	300	Vertical	Pass
2	2978.842	50.34	74.0	23.66	Peak	246.00	200	Vertical	Pass
2**	2978.842	43.51	54.0	10.49	AV	246.00	200	Vertical	Pass
3	4853.994	49.54	74.0	24.46	Peak	28.00	200	Vertical	Pass
3**	4853.994	39.53	54.0	14.47	AV	28.00	200	Vertical	Pass
4	6610.870	56.98	74.0	17.02	Peak	155.00	200	Vertical	Pass
4**	6610.870	46.52	54.0	7.48	AV	155.00	200	Vertical	Pass
5	13430.885	53.71	74.0	20.29	Peak	37.00	400	Vertical	Pass
5**	13430.885	47.94	54.0	6.06	AV	37.00	400	Vertical	Pass
6	17420.011	58.59	74.0	15.41	Peak	134.00	200	Vertical	Pass
6**	17420.011	44.56	54.0	9.44	AV	134.00	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	1326.098	44.49	74.0	29.51	Peak	181.00	300	Horizontal	Pass
1**	1326.098	39.21	54.0	14.79	AV	181.00	300	Horizontal	Pass
2	2993.176	51.47	74.0	22.53	Peak	330.00	200	Horizontal	Pass
2**	2993.176	42.12	54.0	11.88	AV	330.00	200	Horizontal	Pass
3	4935.651	52.56	74.0	21.44	Peak	202.00	200	Horizontal	Pass
3**	4935.651	43.94	54.0	10.06	AV	202.00	200	Horizontal	Pass
4	6808.566	52.94	74.0	21.06	Peak	258.00	200	Horizontal	Pass
4**	6808.566	43.39	54.0	10.61	AV	258.00	200	Horizontal	Pass
5	13412.801	57.26	74.0	16.74	Peak	152.00	100	Horizontal	Pass
5**	13412.801	46.03	54.0	7.97	AV	152.00	100	Horizontal	Pass
6	17429.018	57.11	74.0	16.89	Peak	69.00	100	Horizontal	Pass
6**	17429.018	47.10	54.0	6.90	AV	69.00	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	1335.874	46.81	74.0	27.19	Peak	252.00	400	Vertical	Pass
1**	1335.874	39.11	54.0	14.89	AV	252.00	400	Vertical	Pass
2	2979.804	53.25	74.0	20.75	Peak	267.00	200	Vertical	Pass
2**	2979.804	42.16	54.0	11.84	AV	267.00	200	Vertical	Pass
3	4857.961	51.90	74.0	22.10	Peak	88.00	200	Vertical	Pass
3**	4857.961	38.14	54.0	15.86	AV	88.00	200	Vertical	Pass
4	6609.465	53.38	74.0	20.62	Peak	169.00	300	Vertical	Pass
4**	6609.465	46.23	54.0	7.77	AV	169.00	300	Vertical	Pass
5	13431.121	53.99	74.0	20.01	Peak	215.00	100	Vertical	Pass
5**	13431.121	47.09	54.0	6.91	AV	215.00	100	Vertical	Pass
6	17418.754	59.53	74.0	14.47	Peak	83.00	200	Vertical	Pass
6**	17418.754	46.51	54.0	7.49	AV	83.00	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	1332.801	44.63	74.0	29.37	Peak	92.00	400	Horizontal	Pass
1**	1332.801	34.84	54.0	19.16	AV	92.00	400	Horizontal	Pass
2	2998.680	49.08	74.0	24.92	Peak	270.00	300	Horizontal	Pass
2**	2998.680	39.29	54.0	14.71	AV	270.00	300	Horizontal	Pass
3	4934.668	49.55	74.0	24.45	Peak	40.00	200	Horizontal	Pass
3**	4934.668	42.33	54.0	11.67	AV	40.00	200	Horizontal	Pass
4	6803.880	52.12	74.0	21.88	Peak	269.00	400	Horizontal	Pass
4**	6803.880	47.47	54.0	6.53	AV	269.00	400	Horizontal	Pass
5	13407.507	53.07	74.0	20.93	Peak	327.00	100	Horizontal	Pass
5**	13407.507	44.20	54.0	9.80	AV	327.00	100	Horizontal	Pass
6	17424.835	57.67	74.0	16.33	Peak	207.00	200	Horizontal	Pass
6**	17424.835	49.12	54.0	4.88	AV	207.00	200	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1336.766	46.86	74.0	27.14	Peak	197.00	200	Vertical	Pass
1**	1336.766	36.27	54.0	17.73	AV	197.00	200	Vertical	Pass
2	2985.577	50.77	74.0	23.23	Peak	359.00	100	Vertical	Pass
2**	2985.577	44.35	54.0	9.65	AV	359.00	100	Vertical	Pass
3	4851.165	50.24	74.0	23.76	Peak	320.00	200	Vertical	Pass
3**	4851.165	39.71	54.0	14.29	AV	320.00	200	Vertical	Pass
4	6609.484	53.21	74.0	20.79	Peak	311.00	400	Vertical	Pass
4**	6609.484	43.36	54.0	10.64	AV	311.00	400	Vertical	Pass
5	13434.560	53.43	74.0	20.57	Peak	62.00	400	Vertical	Pass
5**	13434.560	45.86	54.0	8.14	AV	62.00	400	Vertical	Pass
6	17419.715	55.75	74.0	18.25	Peak	133.00	300	Vertical	Pass
6**	17419.715	47.56	54.0	6.44	AV	133.00	300	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1331.098	45.32	74.0	28.68	Peak	209.00	300	Horizontal	Pass
1**	1331.098	35.73	54.0	18.27	AV	209.00	300	Horizontal	Pass
2	2999.307	50.95	74.0	23.05	Peak	8.00	200	Horizontal	Pass
2**	2999.307	42.37	54.0	11.63	AV	8.00	200	Horizontal	Pass
3	4931.045	51.38	74.0	22.62	Peak	35.00	200	Horizontal	Pass
3**	4931.045	43.26	54.0	10.74	AV	35.00	200	Horizontal	Pass
4	6803.688	52.25	74.0	21.75	Peak	135.00	200	Horizontal	Pass
4**	6803.688	42.39	54.0	11.61	AV	135.00	200	Horizontal	Pass
5	13412.476	55.88	74.0	18.12	Peak	42.00	200	Horizontal	Pass
5**	13412.476	44.88	54.0	9.12	AV	42.00	200	Horizontal	Pass
6	17427.568	57.85	74.0	16.15	Peak	161.00	300	Horizontal	Pass
6**	17427.568	48.93	54.0	5.07	AV	161.00	300	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	1329.420	43.57	74.0	30.43	Peak	179.00	100	Vertical	Pass
1**	1329.420	36.00	54.0	18.00	AV	179.00	100	Vertical	Pass
2	2979.083	50.14	74.0	23.86	Peak	356.00	100	Vertical	Pass
2**	2979.083	42.50	54.0	11.50	AV	356.00	100	Vertical	Pass
3	4855.554	47.87	74.0	26.13	Peak	50.00	200	Vertical	Pass
3**	4855.554	38.86	54.0	15.14	AV	50.00	200	Vertical	Pass
4	6610.189	57.08	74.0	16.92	Peak	57.00	400	Vertical	Pass
4**	6610.189	44.58	54.0	9.42	AV	57.00	400	Vertical	Pass
5	13437.633	57.45	74.0	16.55	Peak	358.00	200	Vertical	Pass
5**	13437.633	48.41	54.0	5.59	AV	358.00	200	Vertical	Pass
6	17414.837	59.74	74.0	14.26	Peak	346.00	100	Vertical	Pass
6**	17414.837	49.91	54.0	4.09	AV	346.00	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	1326.571	44.31	74.0	29.69	Peak	47.00	400	Horizontal	Pass
1**	1326.571	39.35	54.0	14.65	AV	47.00	400	Horizontal	Pass
2	2996.533	52.52	74.0	21.48	Peak	278.00	300	Horizontal	Pass
2**	2996.533	38.73	54.0	15.27	AV	278.00	300	Horizontal	Pass
3	4936.493	50.93	74.0	23.07	Peak	169.00	200	Horizontal	Pass
3**	4936.493	40.91	54.0	13.09	AV	169.00	200	Horizontal	Pass
4	6804.382	56.46	74.0	17.54	Peak	260.00	100	Horizontal	Pass
4**	6804.382	41.93	54.0	12.07	AV	260.00	100	Horizontal	Pass
5	13410.673	58.41	74.0	15.59	Peak	67.00	200	Horizontal	Pass
5**	13410.673	49.00	54.0	5.00	AV	67.00	200	Horizontal	Pass
6	17429.068	55.76	74.0	18.24	Peak	123.00	100	Horizontal	Pass
6**	17429.068	44.99	54.0	9.01	AV	123.00	100	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1336.482	43.27	74.0	30.73	Peak	350.00	400	Vertical	Pass
1**	1336.482	40.43	54.0	13.57	AV	350.00	400	Vertical	Pass
2	2980.156	48.65	74.0	25.35	Peak	343.00	300	Vertical	Pass
2**	2980.156	41.59	54.0	12.41	AV	343.00	300	Vertical	Pass
3	4850.462	48.67	74.0	25.33	Peak	296.00	200	Vertical	Pass
3**	4850.462	38.09	54.0	15.91	AV	296.00	200	Vertical	Pass
4	6607.102	51.74	74.0	22.26	Peak	57.00	300	Vertical	Pass
4**	6607.102	45.80	54.0	8.20	AV	57.00	300	Vertical	Pass
5	13437.680	54.60	74.0	19.40	Peak	241.00	400	Vertical	Pass
5**	13437.680	46.36	54.0	7.64	AV	241.00	400	Vertical	Pass
6	17414.433	56.86	74.0	17.14	Peak	109.00	100	Vertical	Pass
6**	17414.433	47.00	54.0	7.00	AV	109.00	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	1328.066	43.69	74.0	30.31	Peak	264.00	100	Horizontal	Pass
1**	1328.066	37.02	54.0	16.98	AV	264.00	100	Horizontal	Pass
2	2998.555	52.92	74.0	21.08	Peak	284.00	300	Horizontal	Pass
2**	2998.555	40.82	54.0	13.18	AV	284.00	300	Horizontal	Pass
3	4935.146	53.88	74.0	20.12	Peak	165.00	200	Horizontal	Pass
3**	4935.146	39.08	54.0	14.92	AV	165.00	200	Horizontal	Pass
4	6807.359	55.08	74.0	18.92	Peak	44.00	200	Horizontal	Pass
4**	6807.359	43.53	54.0	10.47	AV	44.00	200	Horizontal	Pass
5	13409.571	57.69	74.0	16.31	Peak	41.00	200	Horizontal	Pass
5**	13409.571	46.05	54.0	7.95	AV	41.00	200	Horizontal	Pass
6	17425.600	53.45	74.0	20.55	Peak	352.00	400	Horizontal	Pass
6**	17425.600	48.99	54.0	5.01	AV	352.00	400	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	1329.478	47.29	74.0	26.71	Peak	161.00	400	Vertical	Pass
1**	1329.478	37.58	54.0	16.42	AV	161.00	400	Vertical	Pass
2	2984.709	53.30	74.0	20.70	Peak	131.00	200	Vertical	Pass
2**	2984.709	40.45	54.0	13.55	AV	131.00	200	Vertical	Pass
3	4851.486	47.83	74.0	26.17	Peak	337.00	200	Vertical	Pass
3**	4851.486	40.20	54.0	13.80	AV	337.00	200	Vertical	Pass
4	6606.873	55.42	74.0	18.58	Peak	187.00	200	Vertical	Pass
4**	6606.873	42.77	54.0	11.23	AV	187.00	200	Vertical	Pass
5	13437.540	53.88	74.0	20.12	Peak	118.00	400	Vertical	Pass
5**	13437.540	43.79	54.0	10.21	AV	118.00	400	Vertical	Pass
6	17413.128	57.35	74.0	16.65	Peak	298.00	100	Vertical	Pass
6**	17413.128	45.40	54.0	8.60	AV	298.00	100	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1326.244	45.90	74.0	28.10	Peak	237.00	100	Horizontal	Pass
1**	1326.244	35.12	54.0	18.88	AV	237.00	100	Horizontal	Pass
2	3000.109	52.40	74.0	21.60	Peak	163.00	100	Horizontal	Pass
2**	3000.109	42.64	54.0	11.36	AV	163.00	100	Horizontal	Pass
3	4933.859	54.58	74.0	19.42	Peak	206.00	200	Horizontal	Pass
3**	4933.859	43.39	54.0	10.61	AV	206.00	200	Horizontal	Pass
4	6804.842	52.90	74.0	21.10	Peak	166.00	400	Horizontal	Pass
4**	6804.842	42.92	54.0	11.08	AV	166.00	400	Horizontal	Pass
5	13409.454	54.13	74.0	19.87	Peak	138.00	300	Horizontal	Pass
5**	13409.454	49.14	54.0	4.86	AV	138.00	300	Horizontal	Pass
6	17424.392	54.67	74.0	19.33	Peak	249.00	200	Horizontal	Pass
6**	17424.392	48.10	54.0	5.90	AV	249.00	200	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	1331.681	43.81	74.0	30.19	Peak	162.00	200	Vertical	Pass
1**	1331.681	36.46	54.0	17.54	AV	162.00	200	Vertical	Pass
2	2981.815	50.66	74.0	23.34	Peak	159.00	300	Vertical	Pass
2**	2981.815	40.52	54.0	13.48	AV	159.00	300	Vertical	Pass
3	4853.481	48.51	74.0	25.49	Peak	61.00	200	Vertical	Pass
3**	4853.481	37.89	54.0	16.11	AV	61.00	200	Vertical	Pass
4	6609.209	56.98	74.0	17.02	Peak	64.00	100	Vertical	Pass
4**	6609.209	45.68	54.0	8.32	AV	64.00	100	Vertical	Pass
5	13435.345	57.62	74.0	16.38	Peak	8.00	300	Vertical	Pass
5**	13435.345	44.15	54.0	9.85	AV	8.00	300	Vertical	Pass
6	17416.785	54.52	74.0	19.48	Peak	84.00	100	Vertical	Pass
6**	17416.785	49.65	54.0	4.35	AV	84.00	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	2367.333	55.88	74.0	18.12	Peak	256.00	200	Horizontal	Pass
1**	2367.333	43.26	54.0	10.74	AV	256.00	200	Horizontal	Pass
2	2389.833	53.52	74.0	20.48	Peak	253.00	200	Horizontal	Pass
2**	2389.833	43.34	54.0	10.66	AV	253.00	200	Horizontal	Pass

802.11b HIGH CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.550	54.25	74.0	19.75	Peak	228.00	100	Horizontal	Pass
1**	2483.550	44.15	54.0	9.85	AV	228.00	100	Horizontal	Pass
2	2487.250	55.99	74.0	18.01	Peak	317.00	100	Horizontal	Pass
2**	2487.250	45.09	54.0	8.91	AV	317.00	100	Horizontal	Pass

802.11g LOW CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2388.833	63.79	74.0	10.21	Peak	177.00	150	Horizontal	Pass
1**	2388.833	48.75	54.0	5.25	AV	177.00	150	Horizontal	Pass
2	2389.833	62.41	74.0	11.59	Peak	190.00	150	Horizontal	Pass
2**	2389.833	48.77	54.0	5.23	AV	190.00	150	Horizontal	Pass
3	2389.333	60.27	74.0	13.73	Peak	182.00	100	Horizontal	Pass
3**	2389.333	49.63	54.0	4.37	AV	182.00	100	Horizontal	Pass

802.11g HIGH CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.550	58.85	74.0	15.15	Peak	155.00	200	Horizontal	Pass
1**	2483.550	46.92	54.0	7.08	AV	155.00	200	Horizontal	Pass
2	2484.050	57.75	74.0	16.25	Peak	155.00	100	Horizontal	Pass
2**	2484.050	45.60	54.0	8.40	AV	155.00	100	Horizontal	Pass

802.11n20 LOW CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2388.167	65.59	74.0	8.41	Peak	161.00	100	Horizontal	Pass
1**	2388.167	50.00	54.0	4.00	AV	161.00	100	Horizontal	Pass
2	2389.833	63.05	74.0	10.95	Peak	156.00	100	Horizontal	Pass
2**	2389.833	50.70	54.0	3.30	AV	156.00	100	Horizontal	Pass

802.11n20 HIGH CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	60.28	74.0	13.72	Peak	161.00	100	Horizontal	Pass
1**	2483.500	48.14	54.0	5.86	AV	161.00	100	Horizontal	Pass
2	2484.000	60.07	74.0	13.93	Peak	161.00	200	Horizontal	Pass
2**	2484.000	46.74	54.0	7.26	AV	161.00	200	Horizontal	Pass

802.11n40 LOW CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2388.000	62.77	74.0	11.23	Peak	167.00	150	Horizontal	Pass
1**	2388.000	50.34	54.0	3.66	AV	167.00	150	Horizontal	Pass
2	2389.833	61.91	74.0	12.09	Peak	169.00	200	Horizontal	Pass
2**	2389.833	50.87	54.0	3.13	AV	169.00	200	Horizontal	Pass

802.11n40 HIGH CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.550	59.62	74.0	14.38	Peak	162.00	200	Horizontal	Pass
1**	2483.550	48.82	54.0	5.18	AV	162.00	200	Horizontal	Pass
2	2488.450	61.71	74.0	12.29	Peak	157.00	150	Horizontal	Pass
2**	2488.450	49.13	54.0	4.87	AV	157.00	150	Horizontal	Pass

802.11ax20(SU) LOW CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2388.667	65.26	74.0	8.74	Peak	166.00	200	Horizontal	Pass
1**	2388.667	49.14	54.0	4.86	AV	166.00	200	Horizontal	Pass
2	2389.833	63.72	74.0	10.28	Peak	166.00	200	Horizontal	Pass
2**	2389.833	49.61	54.0	4.39	AV	166.00	200	Horizontal	Pass

802.11ax20(SU) HIGH CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	60.91	74.0	13.09	Peak	170.00	200	Horizontal	Pass
1**	2483.500	47.97	54.0	6.03	AV	170.00	200	Horizontal	Pass
2	2483.800	60.81	74.0	13.19	Peak	165.00	150	Horizontal	Pass
2**	2483.800	46.84	54.0	7.16	AV	165.00	150	Horizontal	Pass

802.11ax40(SU) LOW CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2389.667	60.10	74.0	13.90	Peak	170.00	150	Horizontal	Pass
1**	2389.667	48.89	54.0	5.11	AV	170.00	150	Horizontal	Pass
2	2389.833	60.17	74.0	13.83	Peak	160.00	200	Horizontal	Pass
2**	2389.833	49.07	54.0	4.93	AV	160.00	200	Horizontal	Pass

802.11ax40(SU) HIGH CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	61.61	74.0	12.39	Peak	158.00	200	Horizontal	Pass
1**	2483.500	50.23	54.0	3.77	AV	158.00	200	Horizontal	Pass
2	2489.050	63.44	74.0	10.56	Peak	154.00	200	Horizontal	Pass
2**	2489.050	50.33	54.0	3.67	AV	154.00	200	Horizontal	Pass
3	2488.050	59.22	74.0	14.78	Peak	161.00	100	Horizontal	Pass
3**	2488.050	50.53	54.0	3.47	AV	161.00	100	Horizontal	Pass

A.8 Power Spectral Density (PSD)

Test Data

802.11b Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-9.88	8
Middle	-10.17	8
High	-9.19	8

802.11g Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-11.26	8
Middle	-11.97	8
High	-11.36	8

802.11n-20 MHz Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-12.54	8
Middle	-10.78	8
High	-10.37	8

802.11n-40 MHz Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-16.79	8
Middle	-13.69	8
High	-14.68	8

802.11ax-20 MHz(SU) Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-11.97	8
Middle	-10.01	8
High	-10.43	8

802.11ax-40 MHz(SU) Mode:

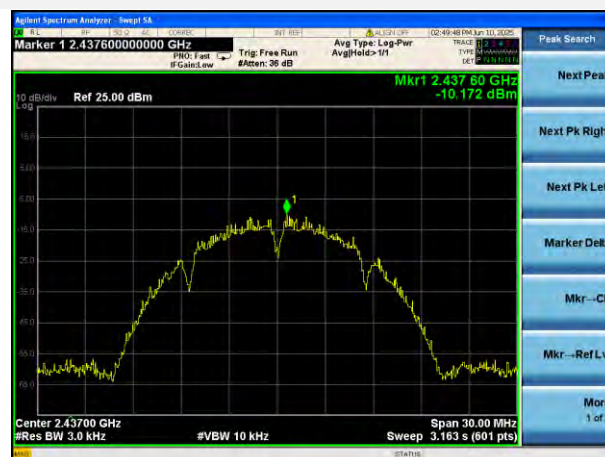
Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-15.43	8
Middle	-12.10	8
High	-13.08	8

Test Plots

802.11b LOW CHANNEL



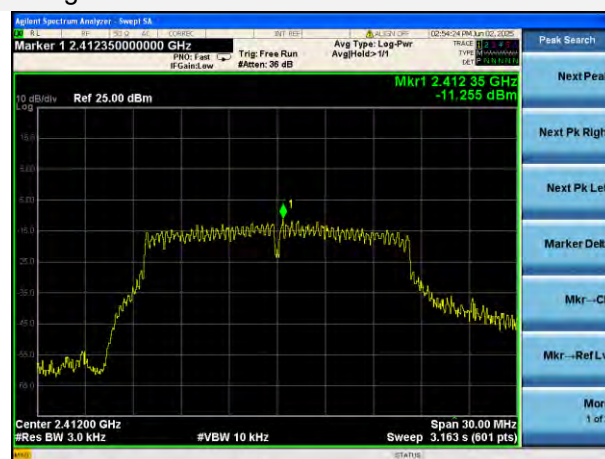
802.11b MIDDLE CHANNEL



802.11b HIGH CHANNEL



802.11g LOW CHANNEL



802.11g MIDDLE CHANNEL



802.11g HIGH CHANNEL



802.11n-20 MHz LOW CHANNEL



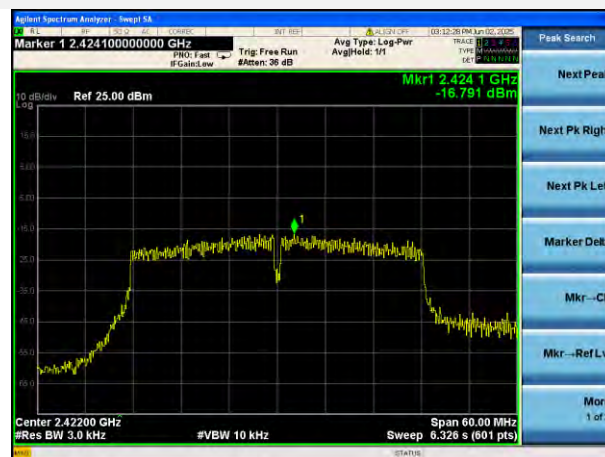
802.11n-20 MHz MIDDLE CHANNEL



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



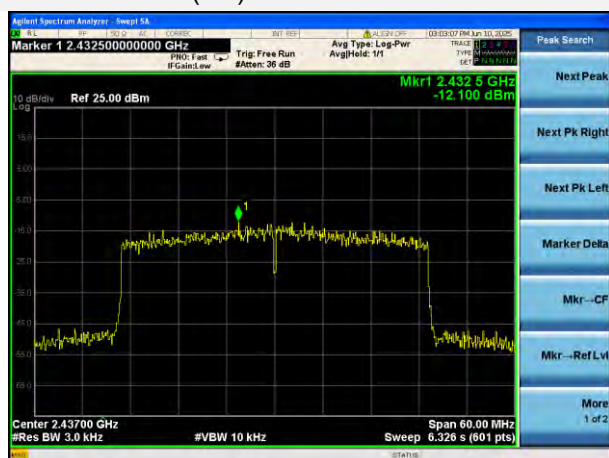
802.11ax-20 MHz(SU) HIGH CHANNEL



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-SZ2550425-AR.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SZ2550425-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SZ2550425-AI.PDF”.

Statement

1. The laboratory guarantees the scientificity, accuracy and impartiality of the test, and is responsible for all the information in the report, except the information provided by the customer. The customer is responsible for the impact of the information provided on the validity of the results.
2. The report without China inspection body and laboratory Mandatory Approval (CMA) mark has no effect of proving to the society.
3. For the report with CNAS mark or A2LA mark, the items marked with "☆" are not within the accredited scope.
4. This report is invalid if it is altered, without the signature of the testing and approval personnel, or without the "inspection and testing dedicated stamp" or test report stamp.
5. The test data and results are only valid for the tested samples provided by the customer.
6. This report shall not be partially reproduced without the written permission of the laboratory.
7. Any objection shall be raised to the laboratory within 30 days after receiving the report.

--END OF REPORT--