

TEST REPORT

Applicant: REOLINK TECHNOLOGY PTE. LTD.
Address: 31 KAKI BUKIT ROAD 3, #06-02, TECHLINK,
SINGAPORE 417818
Equipment Type: WiFi module
Model Name: RL8711
Brand Name: N/A
FCC ID: 2BN5S-2602A
ISED Number: 33667-2602A
Test Standard: 47 CFR Part 15 Subpart C
RSS-Gen Issue 5
RSS-247 Issue 4
(refer to section 3.1)
Sample Arrival Date: Mar. 16, 2026
Test Date: Mar. 20, 2026 - Apr. 14, 2026
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ISSUED BY:

Shenzhen BALUN Technology Co., Ltd.

**Tested by:** Julie Zhu**Checked by:** Ye Hongji**Approved by:** Tolan Tu
(Testing Director)

Revision History

Version	Issue Date	Revisions
<u>Rev. 01</u>	<u>Apr. 22, 2026</u>	<u>Initial Issue</u>

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1 GENERAL INFORMATION

1.1 Test Laboratory

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

1.2 Test Location

Name	Shenzhen BALUN Technology Co., Ltd.
Location	☐ Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
	☒ 1/F, Building B, Ganghongji High-tech Intelligent Industrial Park, No. 1008, Songbai Road, Yangguang Community, Xili Sub-district, Nanshan District, Shenzhen, Guangdong Province, P. R. China
	☐ Building 2, Intelligent Connected Vehicle Industrial Park, No. 55, Xiangshan Road, Luotian Community, Yanluo Sub-district, Bao'an District, Shenzhen, Guangdong Province, 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 CAB identifier number is CN0030.

2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	REOLINK TECHNOLOGY PTE. LTD.
Address	31 KAKI BUKIT ROAD 3, #06-02, TECHLINK, SINGAPORE 417818

2.2 Manufacturer Information

Manufacturer	REOLINK TECHNOLOGY PTE. LTD.
Address	31 KAKI BUKIT ROAD 3, #06-02, TECHLINK, SINGAPORE 417818

2.3 General Description for Equipment under Test (EUT)

EUT Name	WiFi module
Model Name Under Test	RL8711
Series Model Name	N/A
Description of Model name differentiation	N/A
Serial Number	N/A
Hardware Version	N/A
Software Version	N/A
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

2.4 Technical Information

Network and Wireless connectivity	Bluetooth (BLE) WIFI 802.11a, 802.11b, 802.11g, 802.11n, 802.11ac and 802.11ax
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The requirement for the following technical information of the EUT was tested in this report:

Frequency Range	2.400 GHz - 2.4835 GHz
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	Dipole Antenna
Antenna Gain	2.89 dBi
About the Product	Only the WIFI 802.11b, 802.11g, 802.11n (HT20) and 802.11ax (HE20) was tested in this report.

2.5 Channel List

20 MHz	
Channel Number	Frequency (MHz)
1	2412
2	2417
3	2422
4	2427
5	2432
6	2437
7	2442
8	2447
9	2452
10	2457
11	2462

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

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
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

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/11n20/11ax20	1/6/6.5/4 Mbps	1/6/11
Occupied Bandwidth	11b/11g/11n20/11ax20	1/6/6.5/4 Mbps	1/6/11
Conducted Spurious Emission	11b/11g/11n20/11ax20	1/6/6.5/4 Mbps	1/6/11
Conducted Emission	11b/11g/11n20/11ax20	1/6/6.5/4 Mbps	1/6/11
Radiated Spurious Emission	11b/11g/11n20/11ax20	1/6/6.5/4 Mbps	1/6/11
Band Edge	11b/11g/11n20/11ax20	1/6/6.5/4 Mbps	1/6/11
Power spectral density (PSD)	11b/11g/11n20/11ax20	1/6/6.5/4 Mbps	1/6/11

Note: The above EUT information in section 2.5 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 4	Digital Transmission Systems, Frequency Hopping Systems and Licence Exempt Local Area Network Devices in 902-928 MHz, 2400-2483.5 MHz, 5150-5350 MHz, and 5470-5895 MHz bands
4	ANSI C63.10-2020 + Cor. 1-2023 + C63.10a-2024 + Errata to C63.10a-2024	American National Standard for 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, 6.5 (c)	N/A	Pass ^{Note 1}
2	Output Power	15.247 (b)	RSS-247, 6.3.2	ANNEX A.1	Pass
3	Occupied Bandwidth	15.247 (a)	RSS-GEN, 6.7; RSS-247, 6.3.1(a)	ANNEX A.2	Pass
4	Conducted Spurious Emission	15.247 (d)	RSS-247, 6.6	ANNEX A.3	Pass
5	Band Edge(Authorized-band band-edge)	15.247 (d)	RSS-247, 6.6	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, 6.6	ANNEX A.6	Pass
8	Band Edge(Restricted-band band-edge)	15.209; 15.247 (d)	RSS-247, 6.6	ANNEX A.7	Pass
9	Power spectral density (PSD)	15.247 (e)	RSS-247, 6.3.1(b)	ANNEX A.8	Pass
10	Receiver Spurious Emissions	N/A	RSS-Gen, 7.3	N/A	N/A ^{Note 2}

Note¹: The EUT has a permanently and irreplaceable attached antenna, which complies with the requirement FCC 15.203.

Note²: 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	41% to 65%	
Atmospheric Pressure	100 kPa to 102 kPa	
Temperature	NT (Normal Temperature)	+19.1℃ to +25.5℃
Working Voltage of the EUT	NV (Normal Voltage)	3.3 V

4.2 Test Equipment List

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer	KEYSIGHT	N9020A	MY54420186	2025.05.21	2026.05.20
Power meter	R&S	NRP8S	101498	2025.07.07	2026.07.06
Spectrum Analyzer	KEYSIGHT	N9020A	MY56060127	2025.12.25	2026.12.24
Test Antenna-Horn	A-INFO	LB-180400KF	J211060273	2024.06.15	2027.06.14
Test Antenna-Bi-Log	Schwarzbeck	VULB 9163	01414	2023.11.03	2026.11.02
Test Antenna-Horn	Schwarzbeck	BBHA 9120D	02459	2023.10.26	2026.10.25
Test Antenna-Loop	Schwarzbeck	FMZB 1513-60	00015	2024.05.07	2026.05.06
Anechoic Chamber	YIHENG	C8-966	107	2024.05.12	2027.05.11
EMI Receiver	Keysight	N9038A	MY55330121	2026.12.26	2026.12.25
Filtering unit	balun	SU319F	LW-SZ19D0001F01	N/A	N/A
Switching unit	BALUN	SU319	LW-SZ19D0001S01	N/A	N/A
EMI Receiver	keysight	N9038B	MY61380132	2026.12.26	2026.12.25
LISN	SCHWARZBECK MESS- ELEKTRONIK	NSLK8127	01009	2025.07.15	2026.07.14
Shielded Enclosure	YiHeng Electronic Co., Ltd	4.3m*2.9m*2.4 m	235	2024.11.05	2027.11.04

4.3 Test Software List

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

4.4 Measurement Uncertainty

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

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

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

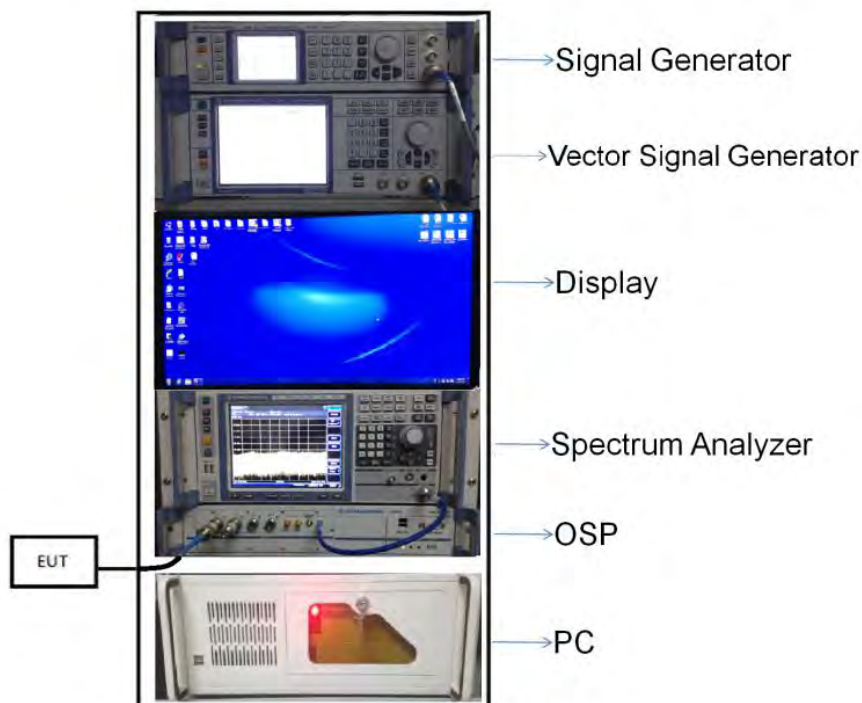
4.5 Description of Test Setup

4.5.1 For Antenna Port Test

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

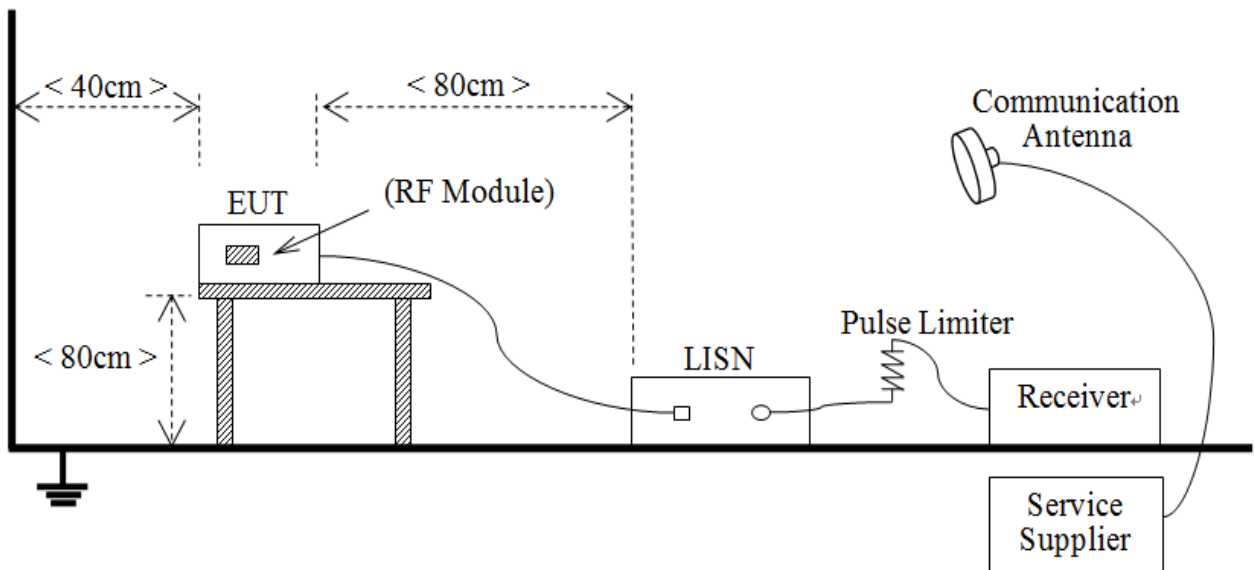
For example: the measurement value is 10 dBm and the cable 0.5dBm used, then the final result of EUT:

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



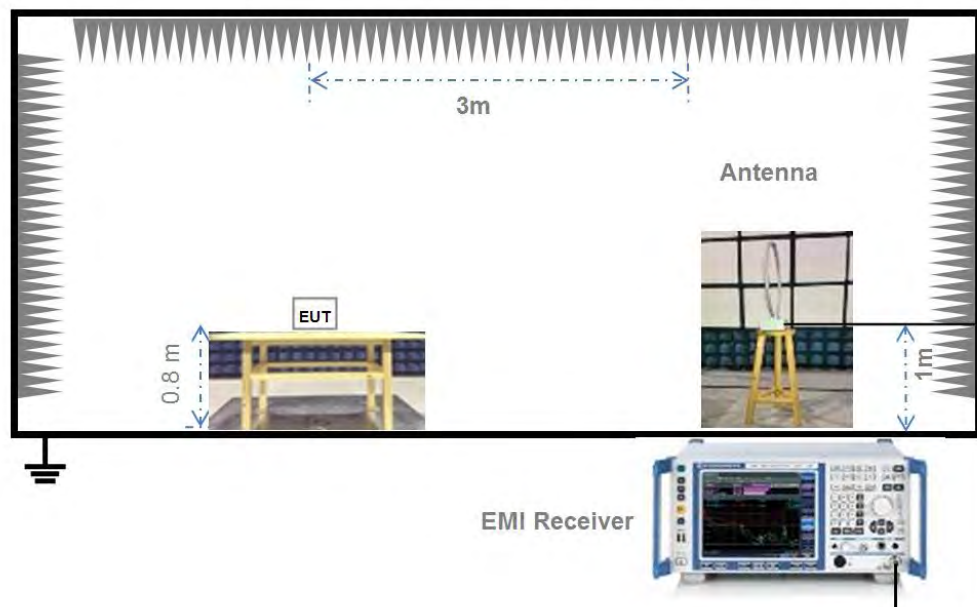
(Diagram 1)

4.5.2 For AC Power Supply Port Test



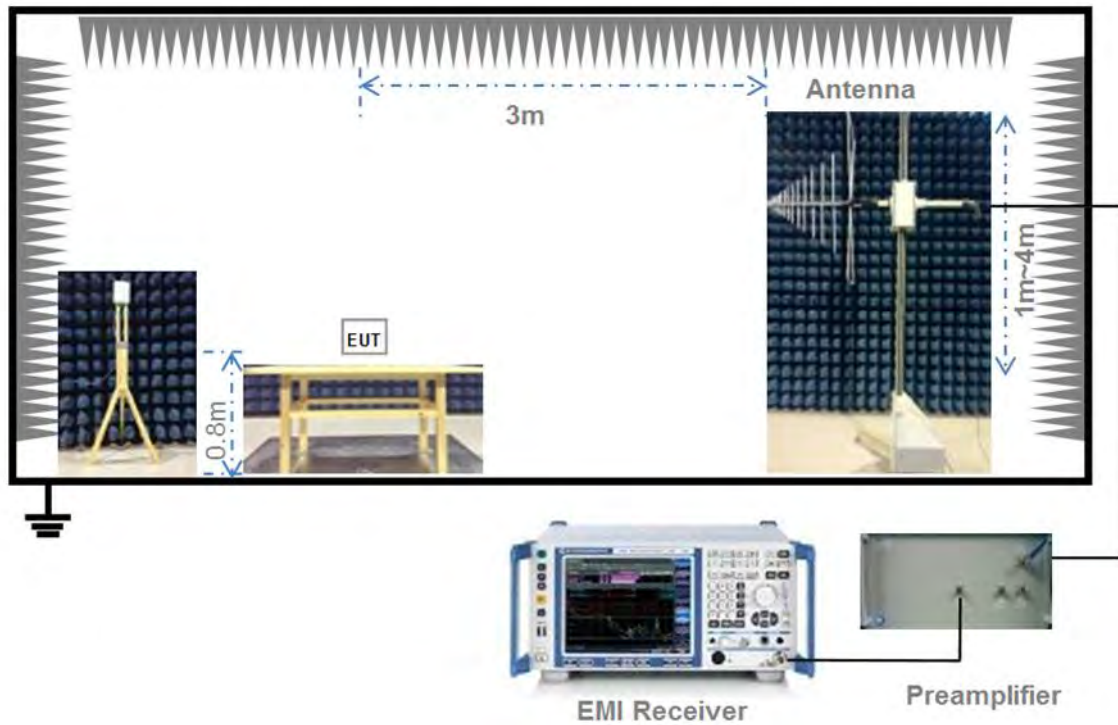
(Diagram 2)

4.5.3 For Radiated Test (Below 30 MHz)



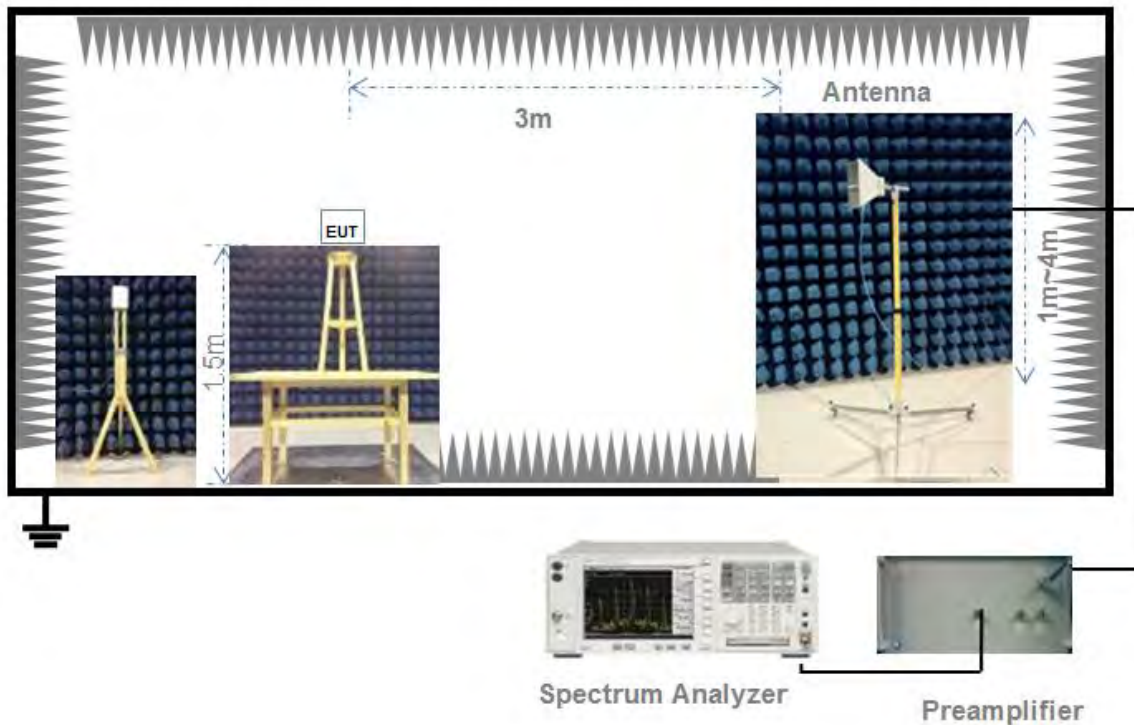
(Diagram 3)

4.5.4 For Radiated Test (30 MHz-1 GHz)



(Diagram 4)

4.5.5 For Radiated Test (Above 1 GHz)



(Diagram 5)

4.6 Measurement Results Explanation Example

4.6.1 For conducted test items:

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

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

Offset = RF cable loss + attenuator factor.

4.6.2 For radiated band edges and spurious emission test:

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

where:

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

EIRP = equivalent isotropic radiated power in dBm

D = specified measurement distance in meters.

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

5 TEST ITEMS

5.1 Antenna Requirements

5.1.1 Relevant Standards

FCC §15.203; RSS-247, 6.5 (c)

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, 6.3.2

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.

RSS-247, 6.3.2

For DTS operating in the band 2400-2483.5 MHz, the maximum peak conducted output power shall not exceed 1W, and the e.i.r.p. shall not exceed 4 W, except as provided in section 6.5 a) and b).

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, 6.3.1(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 = shall be in the range of 1% to 5% of the OBW but not less than 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, 6.6

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, 6.6

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, 6.6

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, 6.6

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, 6.3.1 (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

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

Duty Cycle

Test Mode	On Time (ms)	On+Off time (ms)	Duty Cycle	Duty Factor
802.11b	12.200	12.310	99.11%	0.04
802.11g	2.024	2.128	95.11%	0.22
802.11n-20 MHz	1.701	1.806	94.19%	0.26
802.11ax-20 MHz	1.452	1.556	93.32%	0.30

Peak Power Test Data

802.11b Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	17.10	51.29	30	1000	Pass
Middle	17.13	51.64			Pass
High	17.19	52.36			Pass

802.11g Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	19.73	93.97	30	1000	Pass
Middle	19.71	93.54			Pass
High	19.86	96.83			Pass

802.11n-20 MHz Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	18.65	73.28	30	1000	Pass
Middle	18.67	73.62			Pass
High	18.84	76.56			Pass

802.11ax-20 MHz(SU) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	18.77	75.34	30	1000	Pass
Middle	18.81	76.03			Pass
High	18.98	79.07			Pass

Average Power Test Data

802.11b Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	14.77	29.99	30	1000	Pass
Middle	14.83	30.41			Pass
High	14.76	29.92			Pass

802.11g Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	13.79	23.93	30	1000	Pass
Middle	13.74	23.66			Pass
High	13.90	24.55			Pass

802.11n-20 MHz Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	12.41	17.42	30	1000	Pass
Middle	12.43	17.50			Pass
High	12.60	18.20			Pass

802.11ax-20 MHz(SU) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	11.41	13.84	30	1000	Pass
Middle	11.44	13.93			Pass
High	11.62	14.52			Pass

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

802.11b Mode:

Channel	E.I.R.P		Limit		Verdict
	dBm	mW	dBm	W	
Low	19.99	99.77	36	4	Pass
Middle	20.02	100.46			Pass
High	20.08	101.86			Pass

802.11g Mode:

Channel	E.I.R.P		Limit		Verdict
	dBm	mW	dBm	W	
Low	22.62	182.81	36	4	Pass
Middle	22.60	181.97			Pass
High	22.75	188.36			Pass

802.11n-20 MHz Mode:

Channel	E.I.R.P		Limit		Verdict
	dBm	mW	dBm	W	
Low	21.54	142.56	36	4	Pass
Middle	21.56	143.22			Pass
High	21.73	148.94			Pass

802.11ax-20 MHz(SU) Mode:

Channel	E.I.R.P		Limit		Verdict
	dBm	mW	dBm	W	
Low	21.66	146.55	36	4	Pass
Middle	21.70	147.91			Pass
High	21.87	153.82			Pass

A.2 Occupied Bandwidth

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

Test Data

802.11b Mode:

Channel	6 dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limits (kHz)
Low	9.200000	13.195000	≥500
Middle	9.700000	13.187000	≥500
High	9.700000	13.227000	≥500

802.11g Mode:

Channel	6 dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limits (kHz)
Low	16.600000	16.521000	≥500
Middle	16.500000	16.520000	≥500
High	16.500000	16.521000	≥500

802.11n-20MHz Mode:

Channel	6 dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limits (kHz)
Low	17.300000	17.582000	≥500
Middle	17.400000	17.579000	≥500
High	17.300000	17.592000	≥500

802.11ax-20 MHz(SU) Mode:

Channel	6 dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limits (kHz)
Low	19.200000	18.886000	≥500
Middle	18.700000	18.873000	≥500
High	18.700000	18.895000	≥500

Test Plots

6 dB Bandwidth

802.11b LOW CHANNEL



802.11b MIDDLE CHANNEL



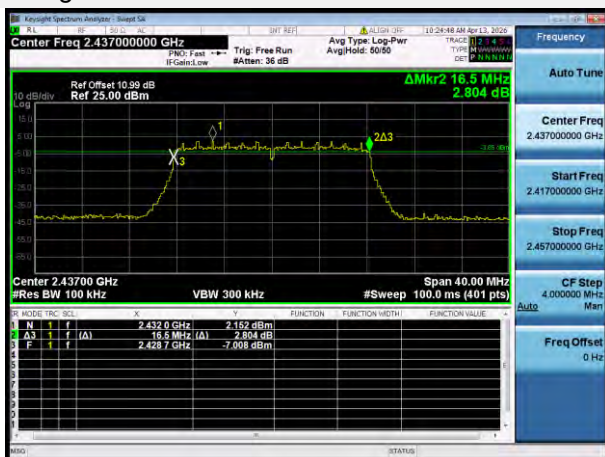
802.11b HIGH CHANNEL



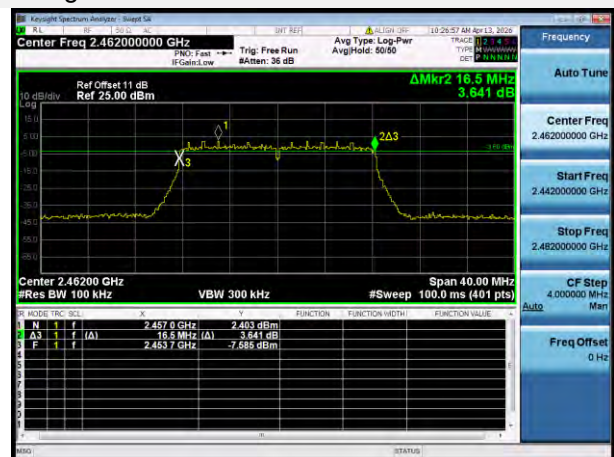
802.11g LOW CHANNEL



802.11g MIDDLE CHANNEL



802.11g HIGH CHANNEL



802.11n-20 MHz LOW CHANNEL



802.11n-20 MHz MIDDLE CHANNEL



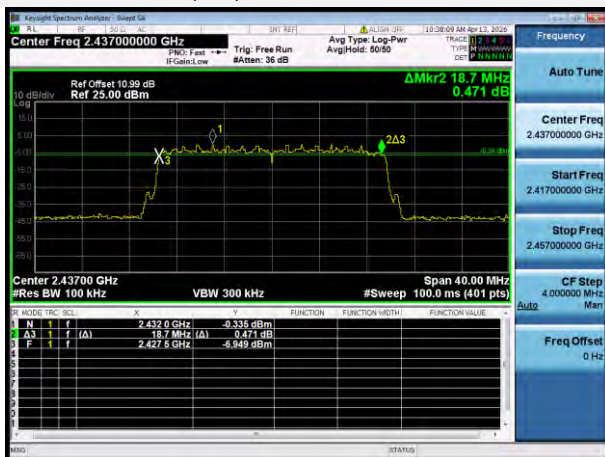
802.11n-20 MHz HIGH CHANNEL



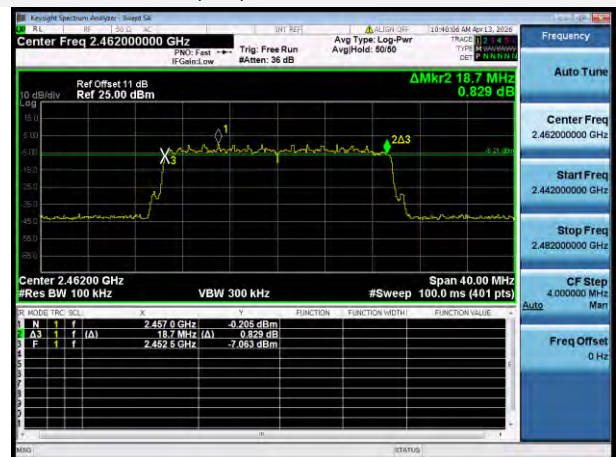
802.11ax-20 MHz(SU) LOW CHANNEL



802.11ax-20 MHz(SU) MIDDLE CHANNEL



802.11ax-20 MHz(SU) HIGH CHANNEL

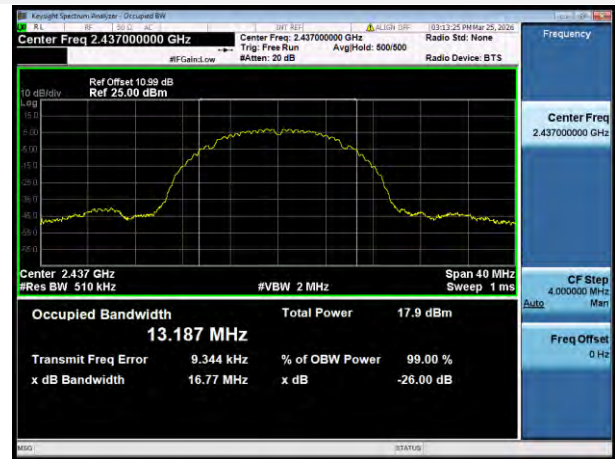


99% Bandwidth

802.11b LOW CHANNEL



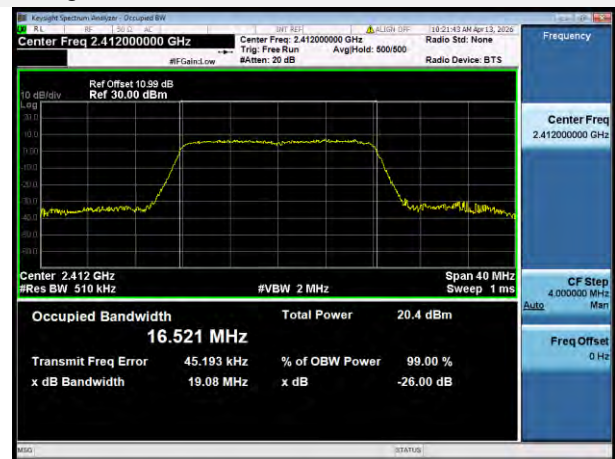
802.11b MIDDLE CHANNEL



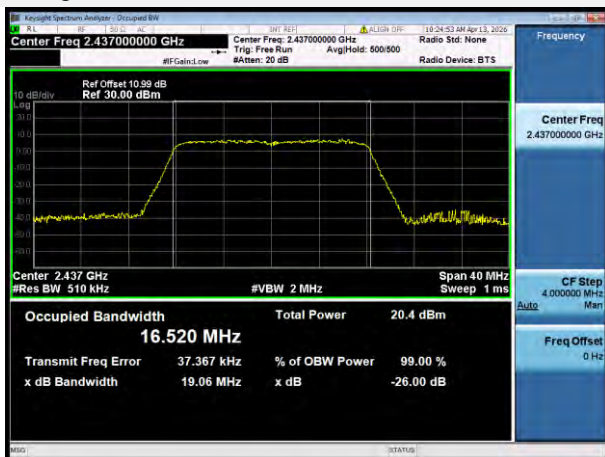
802.11b HIGH CHANNEL



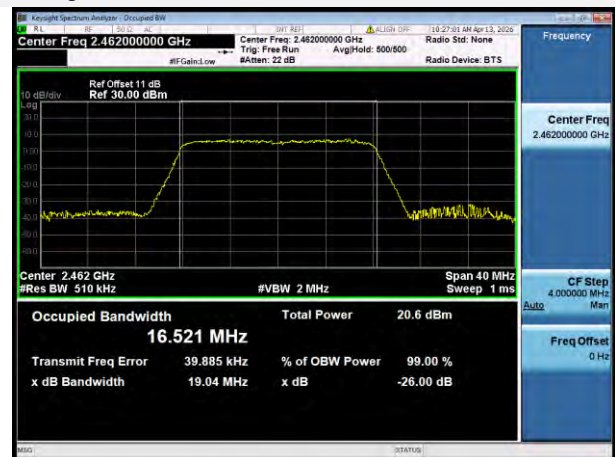
802.11g LOW CHANNEL



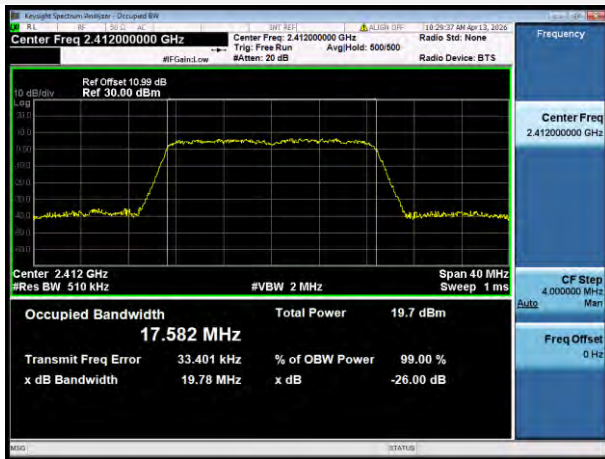
802.11g MIDDLE CHANNEL



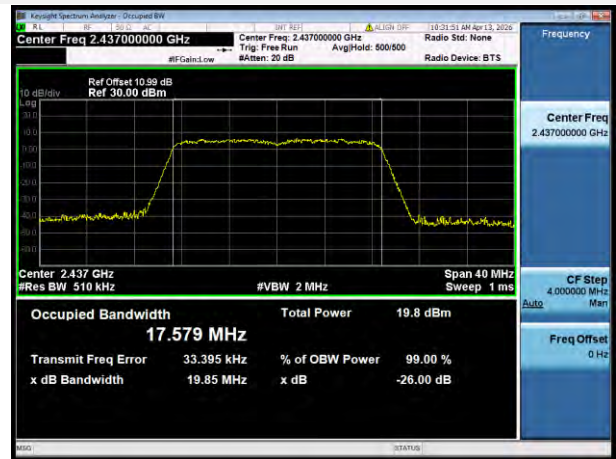
802.11g HIGH CHANNEL



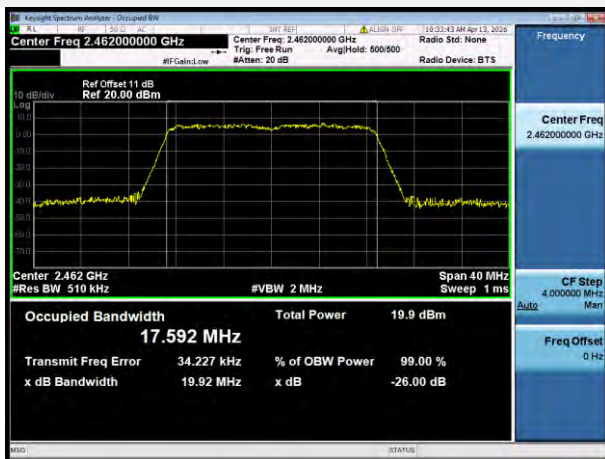
802.11n-20 MHz LOW CHANNEL



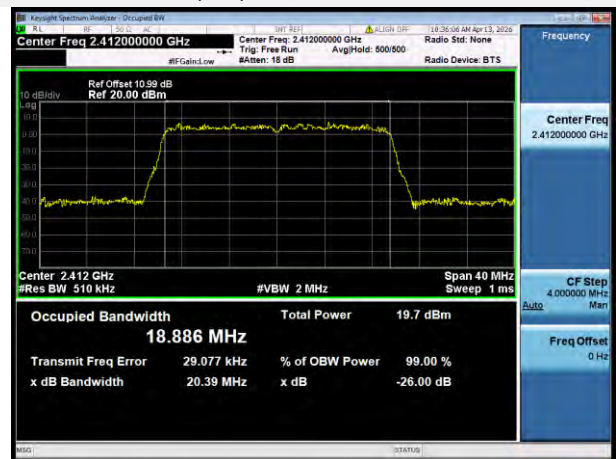
802.11n-20 MHz MIDDLE CHANNEL



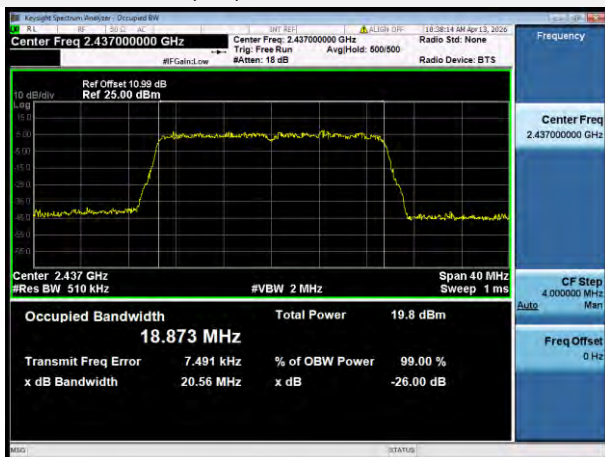
802.11n-20 MHz HIGH CHANNEL



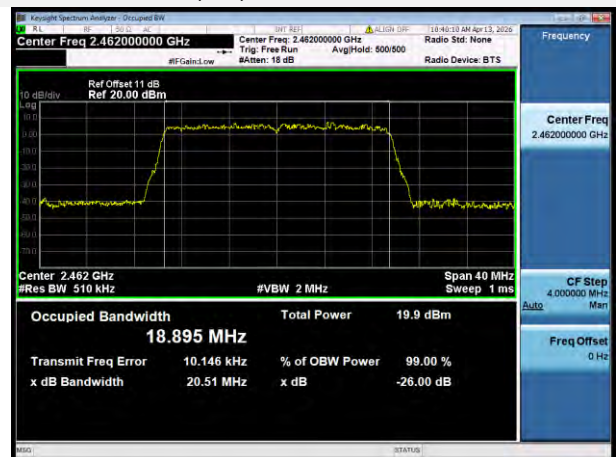
802.11ax-20 MHz(SU) LOW CHANNEL



802.11ax-20 MHz(SU) MIDDLE CHANNEL



802.11ax-20 MHz(SU) HIGH CHANNEL



A.3 Conducted Spurious Emissions

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

Test Data

802.11b Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-33.83	6.98	-13.02	Pass
Middle	-33.03	6.86	-13.14	Pass
High	-34.03	6.70	-13.30	Pass

802.11g Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-33.68	2.32	-17.68	Pass
Middle	-34.76	2.46	-17.54	Pass
High	-33.87	2.60	-17.40	Pass

802.11n-20MHz Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-33.87	1.16	-18.84	Pass
Middle	-34.41	1.14	-18.86	Pass
High	-32.67	1.44	-18.56	Pass

802.11ax-20 MHz(SU) Mode:

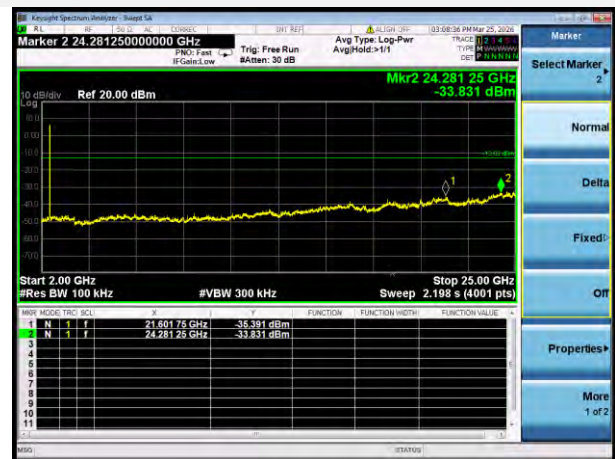
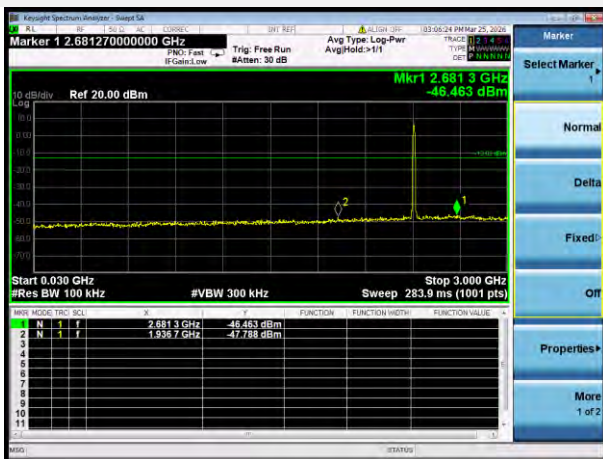
Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-33.62	-0.20	-20.20	Pass
Middle	-32.48	0.04	-19.96	Pass
High	-33.62	0.11	-19.89	Pass

Test Plots

802.11b LOW CHANNEL CARRIER LEVEL



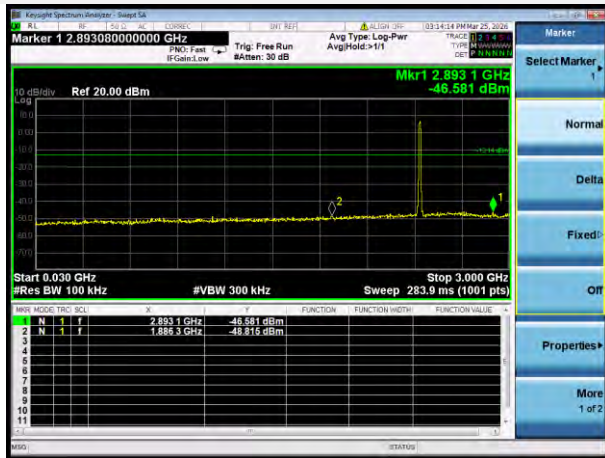
802.11b LOW CHANNEL, SPURIOUS 30 MHz ~ 3 GHz 802.11b LOW CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



802.11b MIDDLE CHANNEL CARRIER LEVEL



802.11b MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



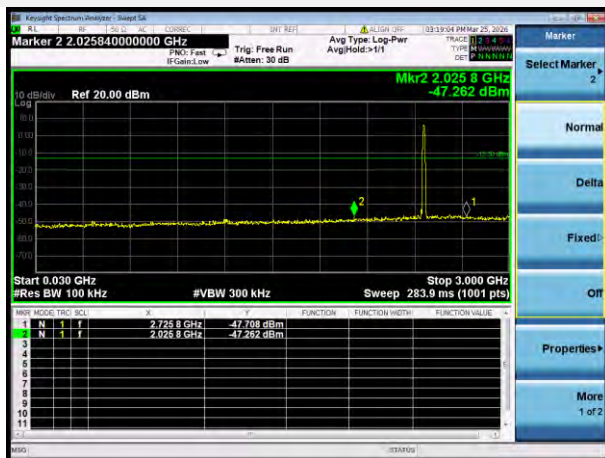
802.11b MIDDLE CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



802.11b HIGH CHANNEL CARRIER LEVEL



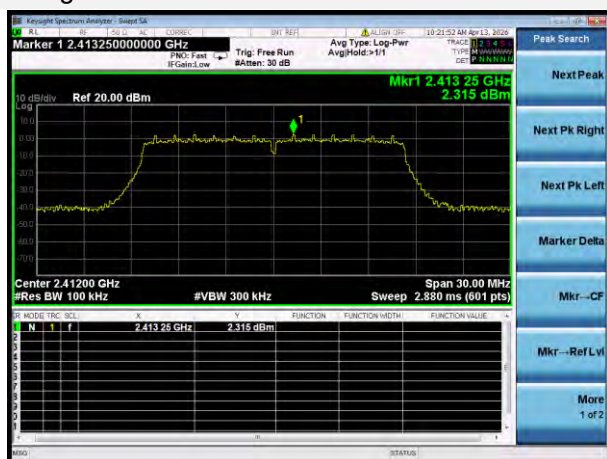
802.11b HIGH CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



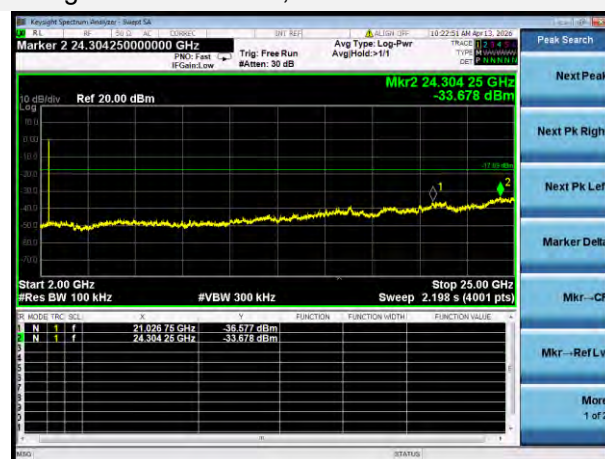
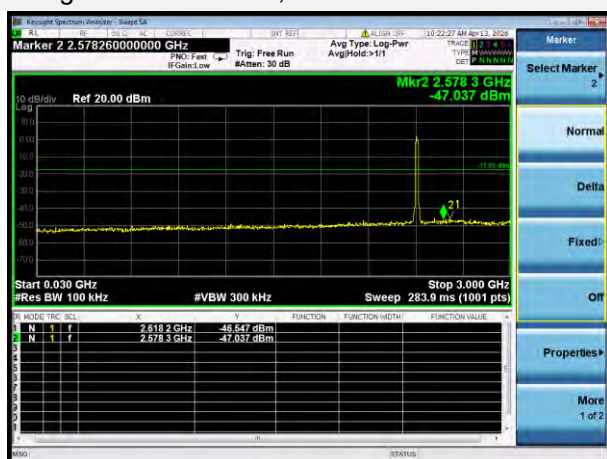
802.11b HIGH CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



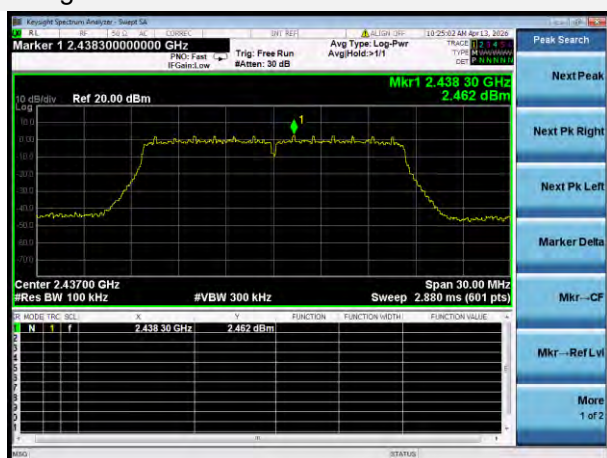
802.11g LOW CHANNEL CARRIER LEVEL



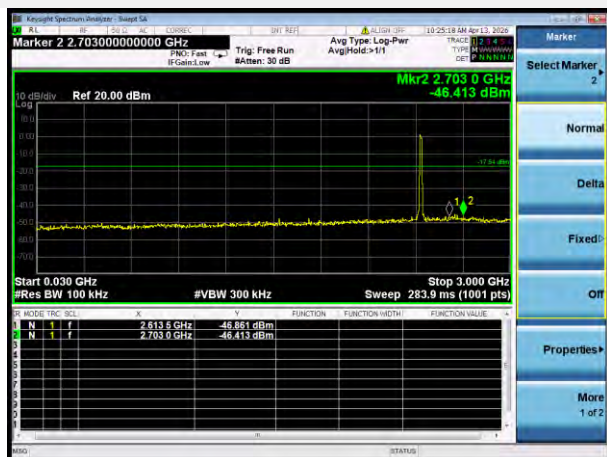
802.11g LOW CHANNEL, SPURIOUS 30 MHz ~ 3 GHz 802.11g LOW CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



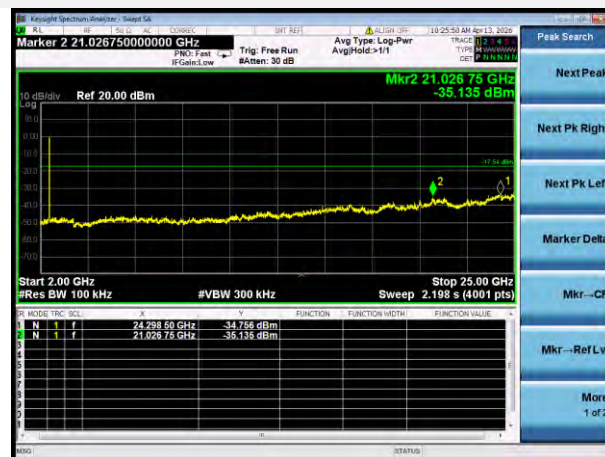
802.11g MIDDLE CHANNEL CARRIER LEVEL



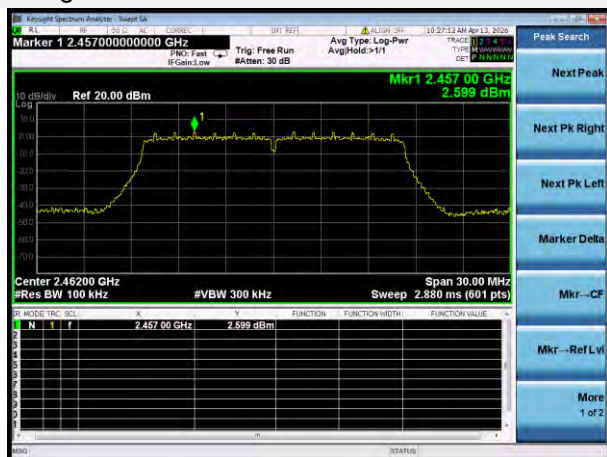
802.11g MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



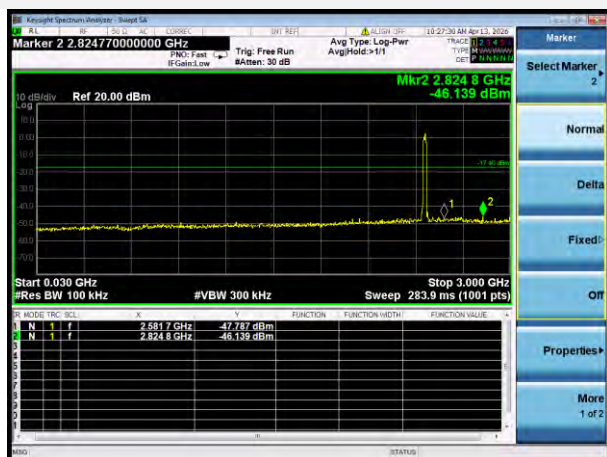
802.11g MIDDLE CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



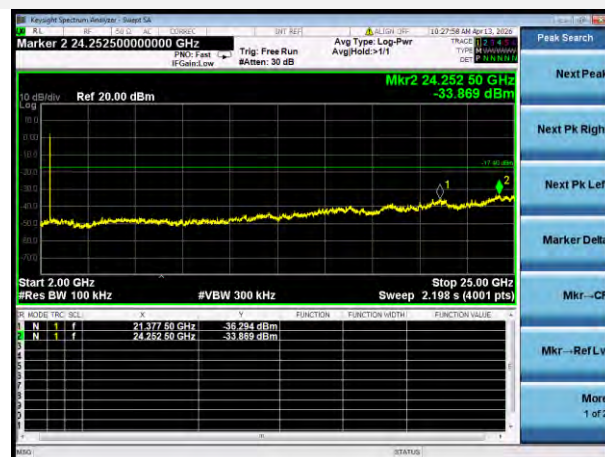
802.11g HIGH CHANNEL CARRIER LEVEL



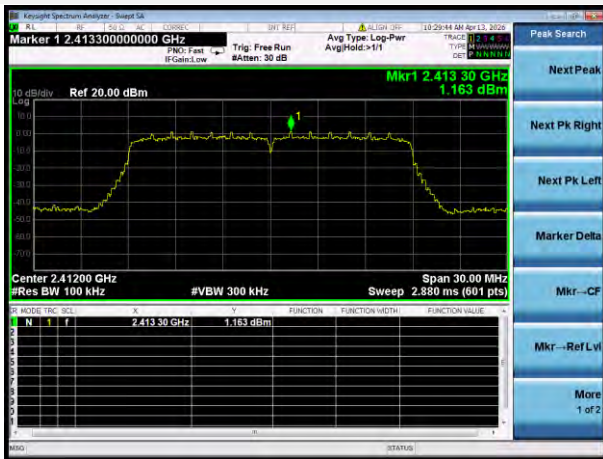
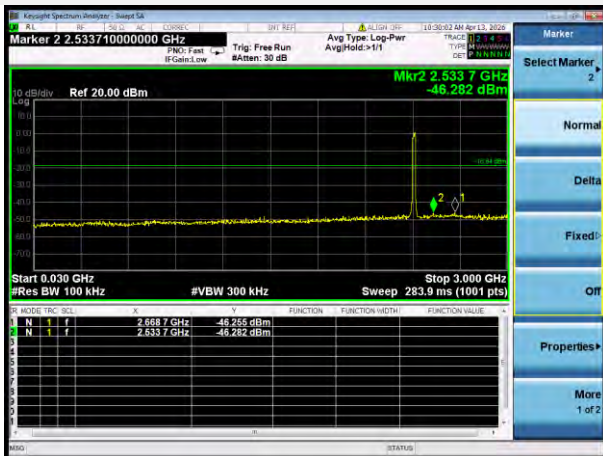
802.11g HIGH CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



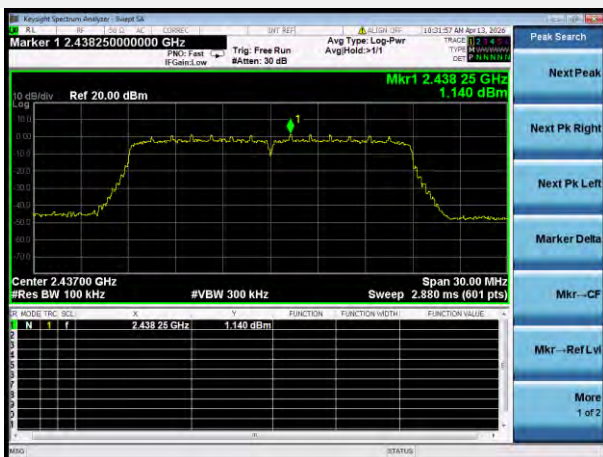
802.11g HIGH CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



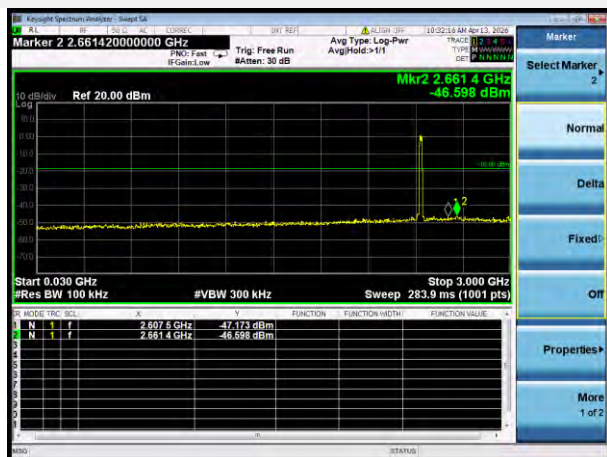
802.11n-20 MHz LOW CHANNEL CARRIER LEVEL

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

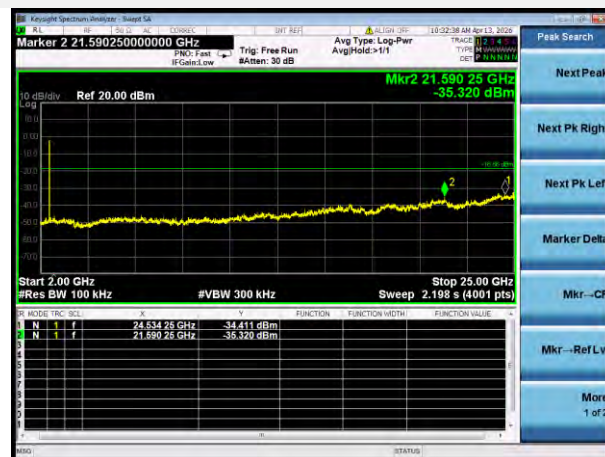
802.11n-20 MHz MIDDLE CHANNEL CARRIER LEVEL



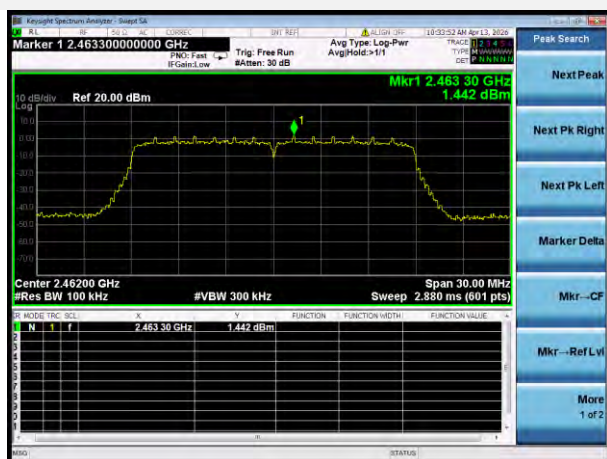
802.11n-20 MHz MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



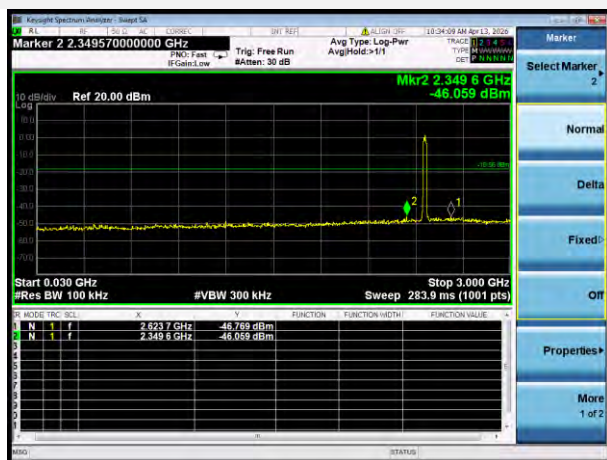
802.11n-20 MHz MIDDLE CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



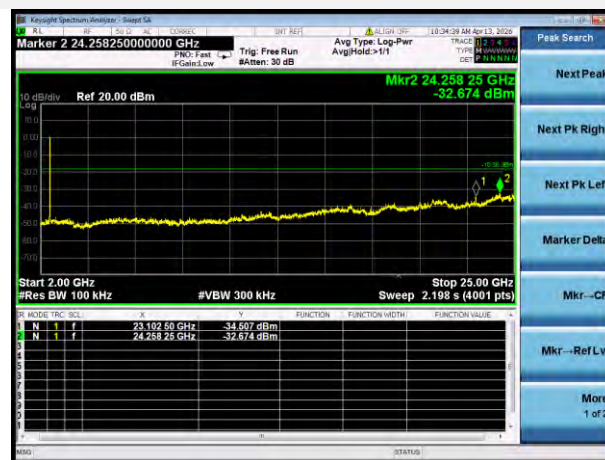
802.11n-20 MHz HIGH CHANNEL CARRIER LEVEL



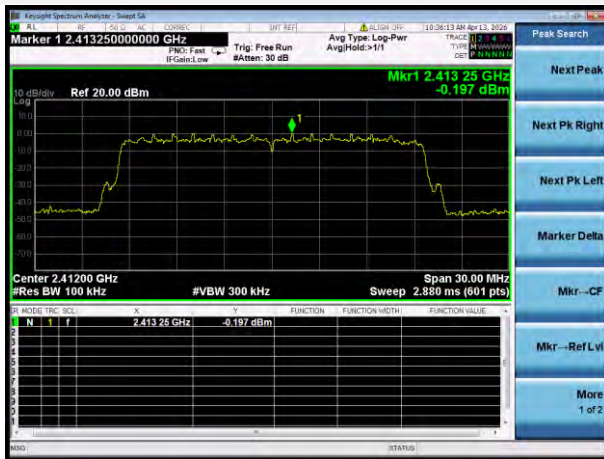
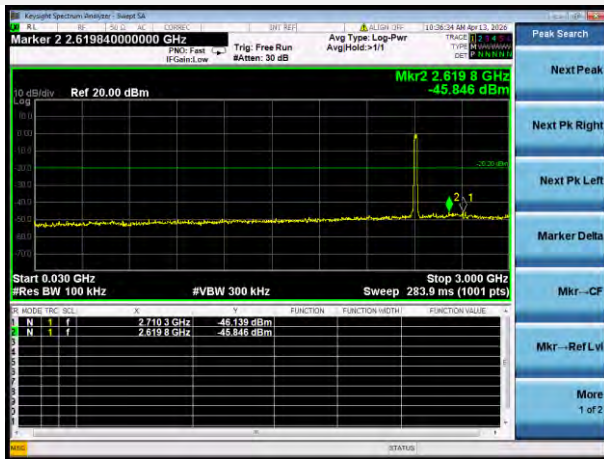
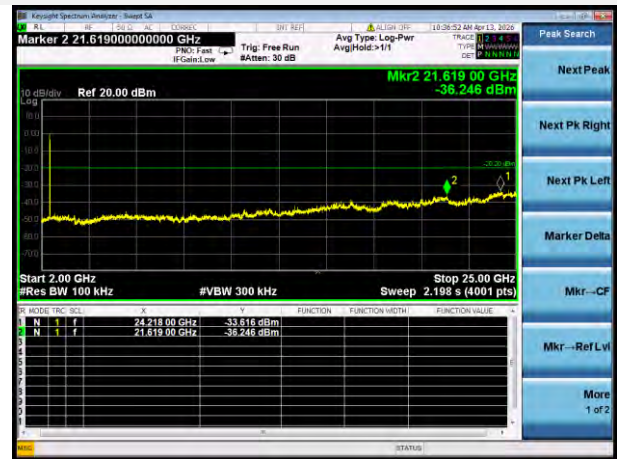
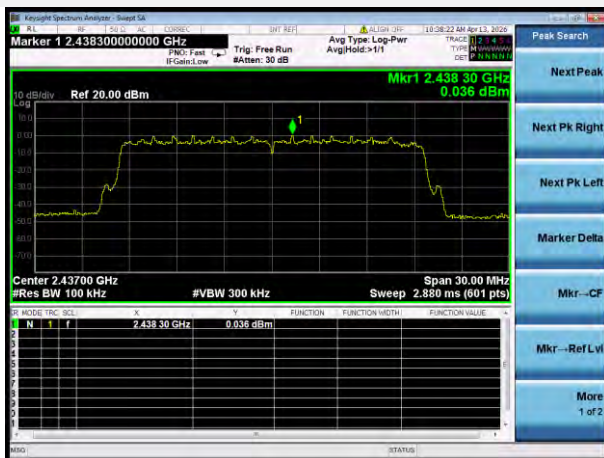
802.11n-20 MHz HIGH CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



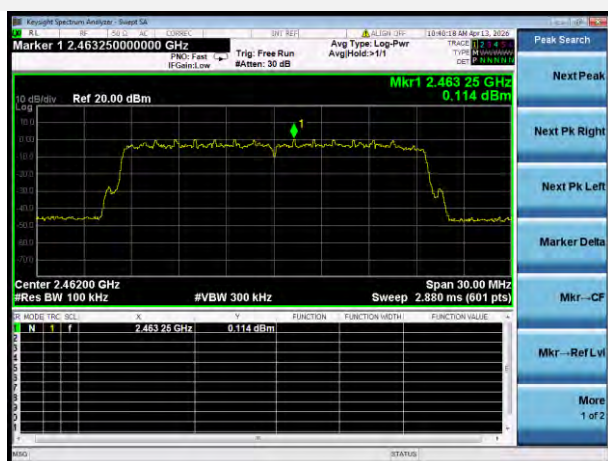
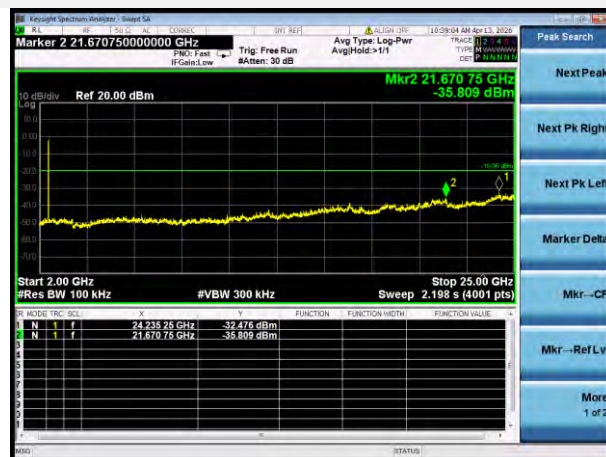
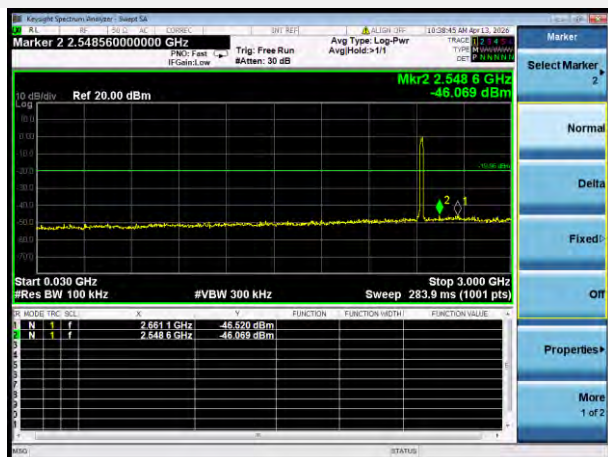
802.11n-20 MHz HIGH CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



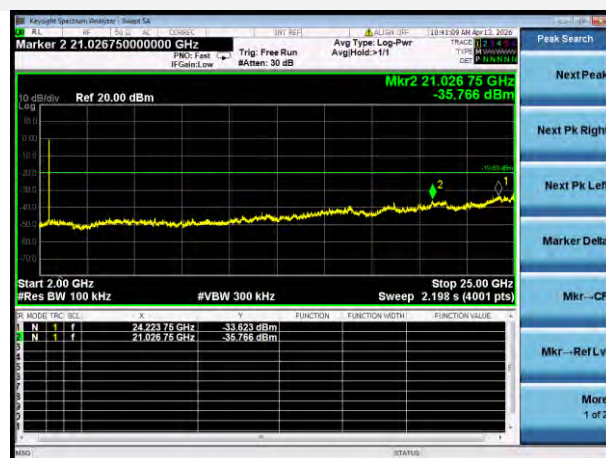
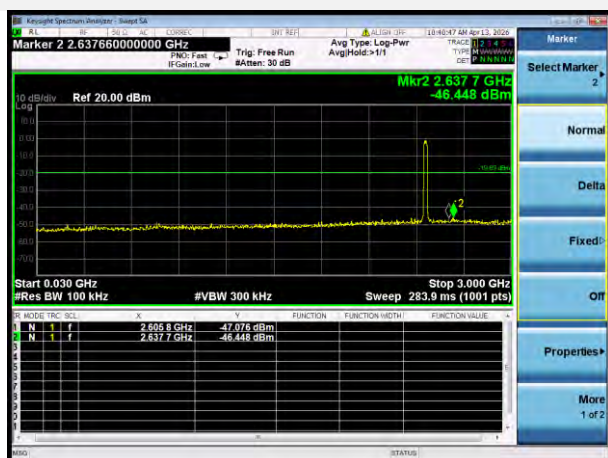
802.11ax-20 MHz(SU) LOW CHANNEL CARRIER LEVEL

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

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



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



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

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

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

Test Data

802.11b Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-42.18	6.98	-13.02	Pass
High Channel	-46.62	6.70	-13.30	Pass

802.11g Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-38.46	2.32	-17.68	Pass
High Channel	-47.03	2.60	-17.40	Pass

802.11n-20 MHz Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-42.59	1.16	-18.84	Pass
High Channel	-46.22	1.44	-18.56	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	-43.95	-0.20	-20.20	Pass
High Channel	-46.73	0.11	-19.89	Pass

Test Plots

802.11b LOW CHANNEL, CARRIER LEVEL



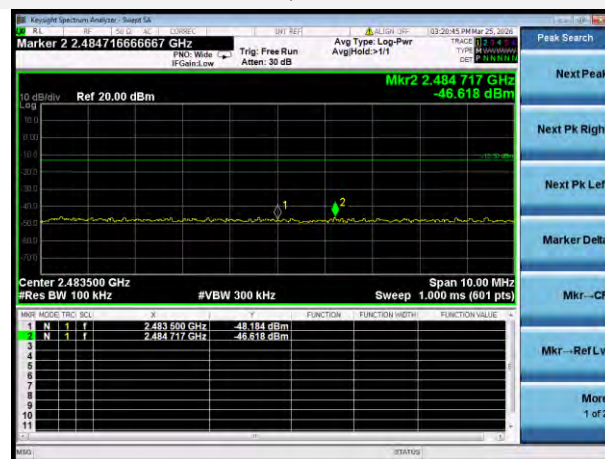
802.11b LOW CHANNEL, BAND EDGE



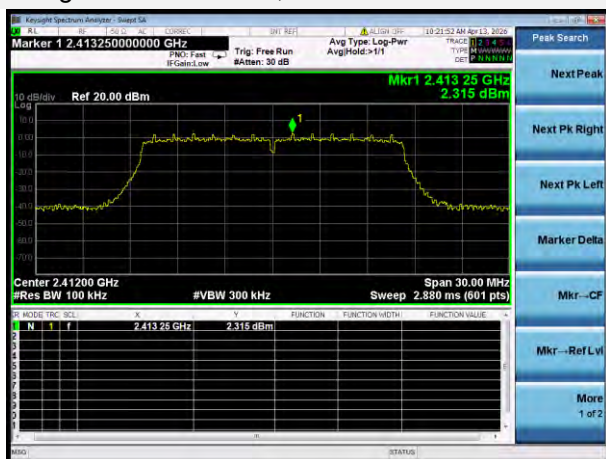
802.11b HIGH CHANNEL, CARRIER LEVEL



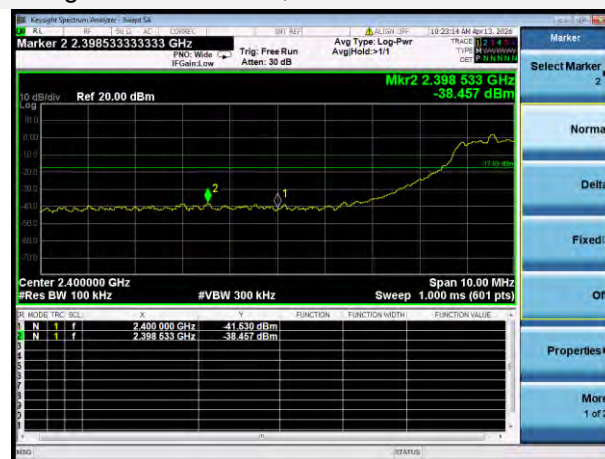
802.11b HIGH CHANNEL, BAND EDGE



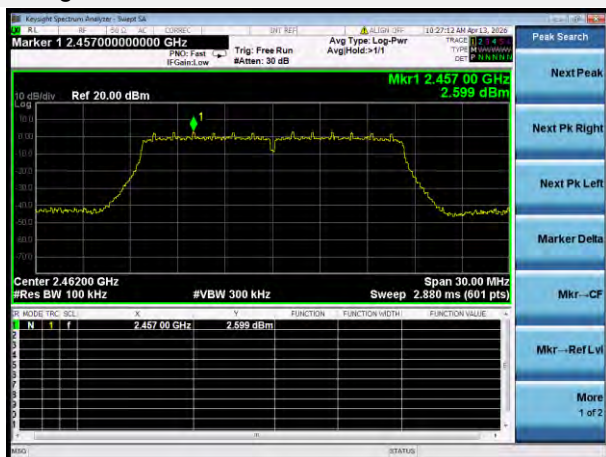
802.11g LOW CHANNEL, CARRIER LEVEL



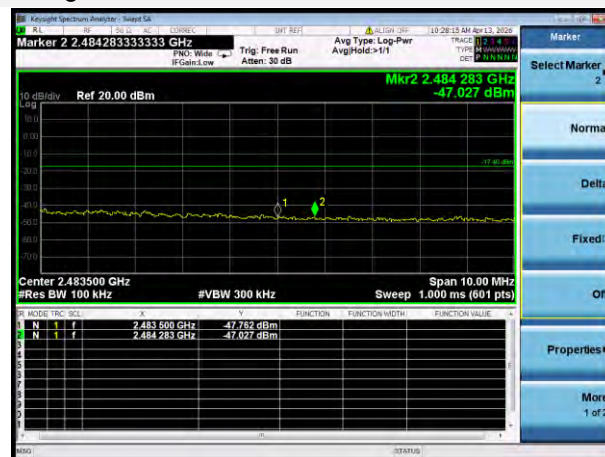
802.11g LOW CHANNEL, BAND EDGE



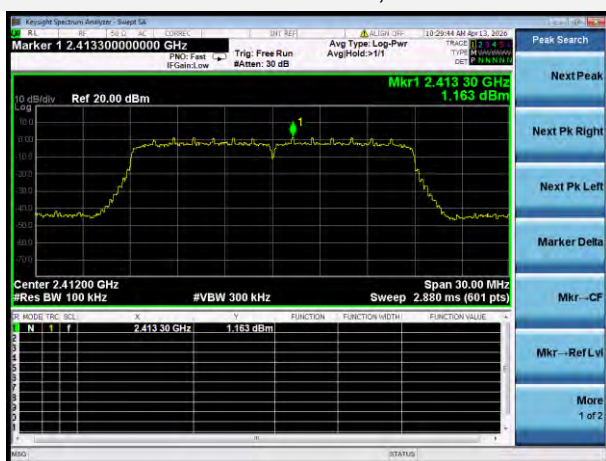
802.11g HIGH CHANNEL, CARRIER LEVEL



802.11g HIGH CHANNEL, BAND EDGE



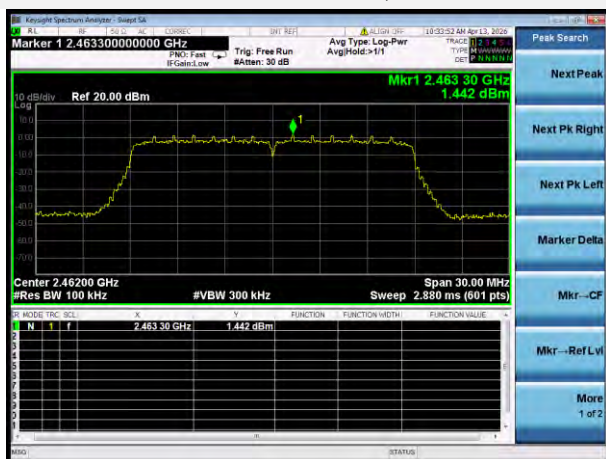
802.11n-20 MHz LOW CHANNEL, CARRIER LEVEL



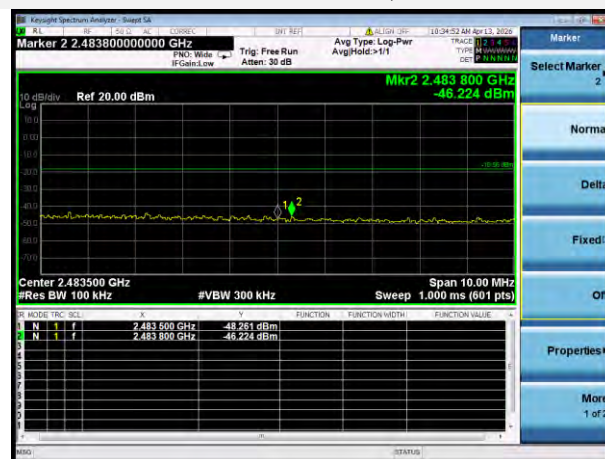
802.11n-20 MHz LOW CHANNEL, BAND EDGE



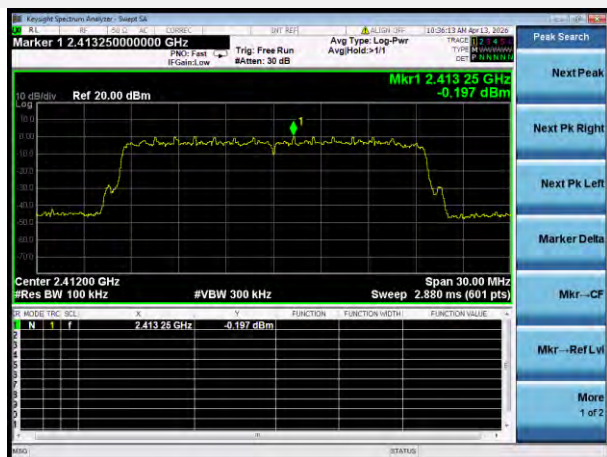
802.11n-20 MHz HIGH CHANNEL, CARRIER LEVEL



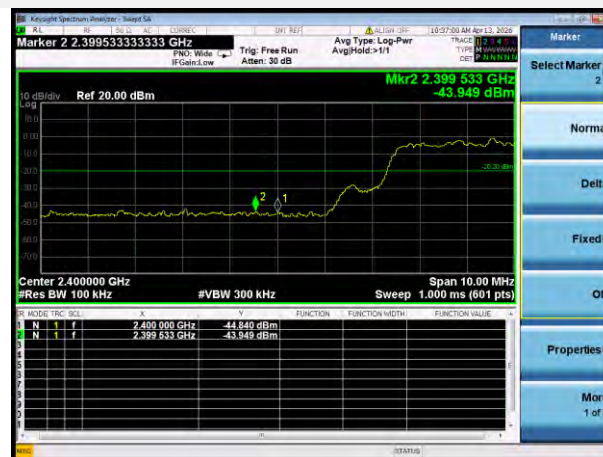
802.11n-20 MHz HIGH CHANNEL, BAND EDGE



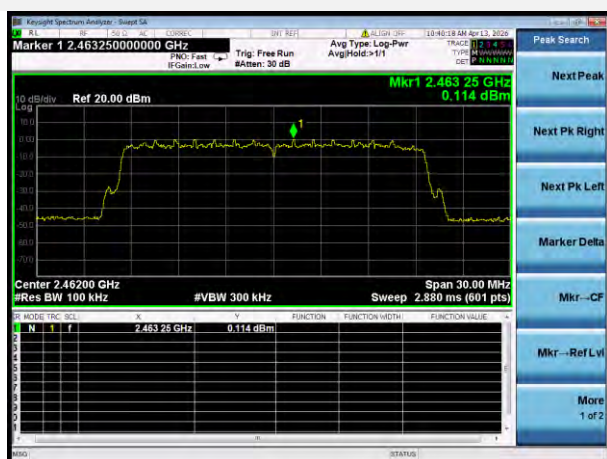
802.11ax-20 MHz(SU) LOW CHANNEL, CARRIER LEVEL



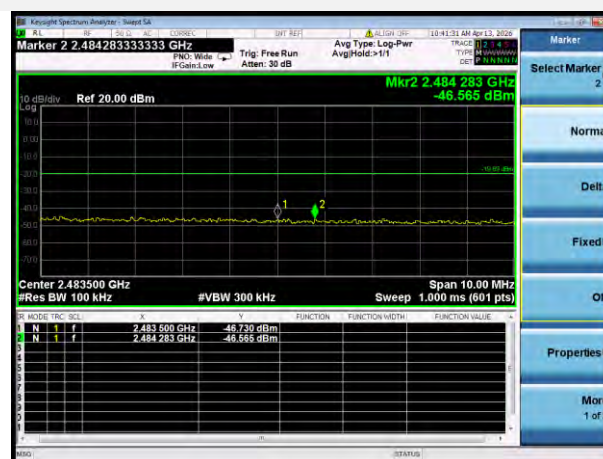
802.11ax-20 MHz(SU) LOW CHANNEL, BAND EDGE



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



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



A.5 Conducted Emissions

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

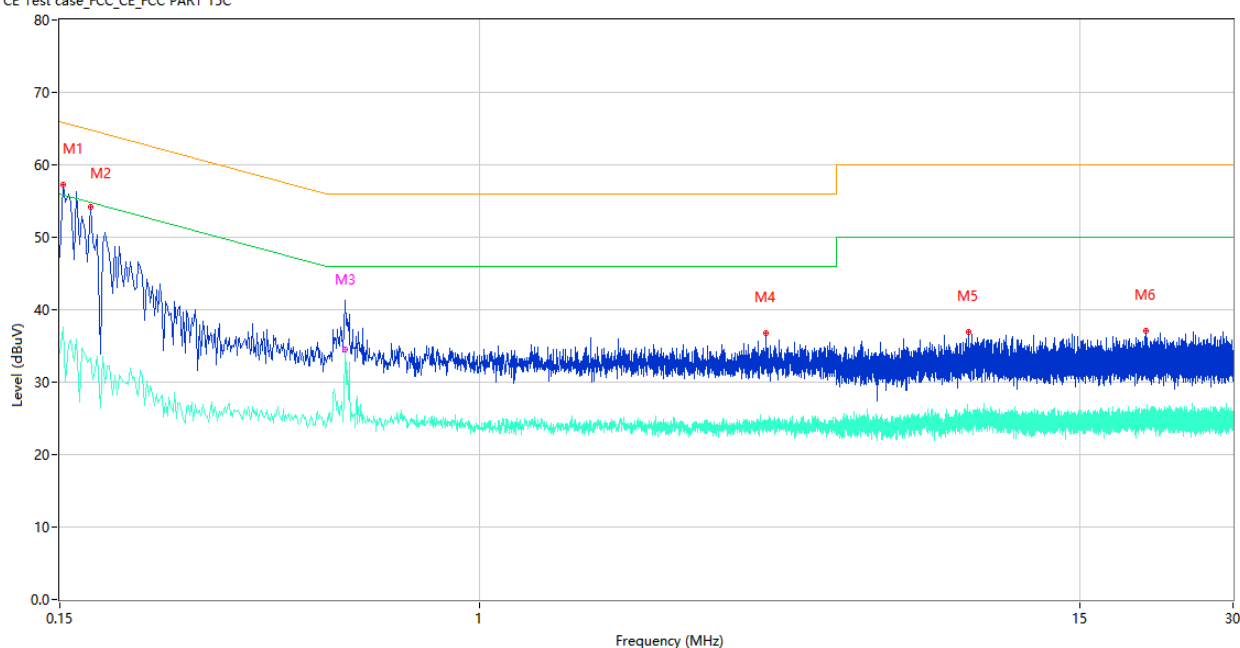
Note²: Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 60 Hz and 240 VAC, 50 Hz) for which the device is capable of operation. So, The configuration 120 VAC, 60 Hz and 240 VAC, 50 Hz were tested respectively, but only the worst configuration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

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

Test Data and Plots

PHASE L

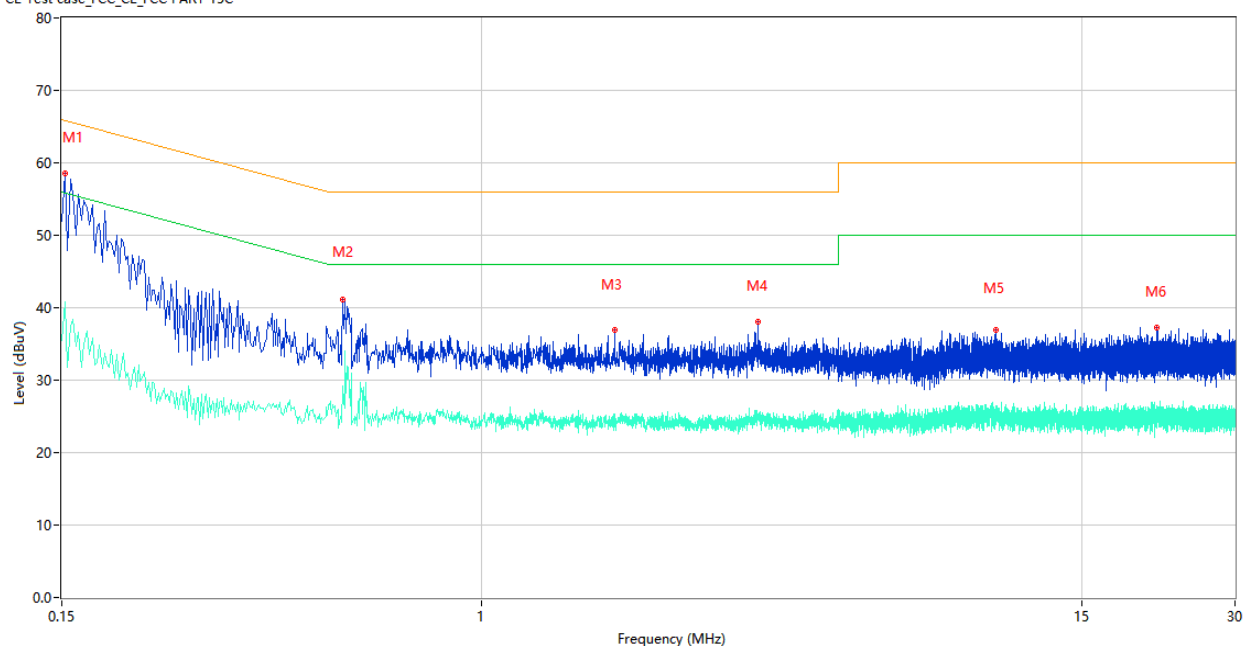
CE Test case_FCC_CE_FCC PART 15C



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.152	57.23	9.86	65.89	8.66	Peak	L	Pass
1**	0.152	37.53	9.86	55.89	18.36	AV	L	Pass
2	0.172	54.17	9.85	64.86	10.69	Peak	L	Pass
2**	0.172	33.39	9.85	54.86	21.47	AV	L	Pass
3	0.544	41.26	10.08	56.00	14.74	Peak	L	Pass
3**	0.544	34.44	10.08	46.00	11.56	AV	L	Pass
4	3.640	36.84	10.45	56.00	19.16	Peak	L	Pass
4**	3.640	24.67	10.45	46.00	21.33	AV	L	Pass
5	9.086	36.99	10.26	60.00	23.01	Peak	L	Pass
5**	9.086	24.93	10.26	50.00	25.07	AV	L	Pass
6	20.240	37.06	11.13	60.00	22.94	Peak	L	Pass
6**	20.240	26.15	11.13	50.00	23.85	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	0.152	58.55	9.86	65.89	7.34	Peak	N	Pass
1**	0.152	40.83	9.86	55.89	15.06	AV	N	Pass
2	0.534	41.07	10.07	56.00	14.93	Peak	N	Pass
2**	0.534	29.12	10.07	46.00	16.88	AV	N	Pass
3	1.824	36.99	10.19	56.00	19.01	Peak	N	Pass
3**	1.824	25.01	10.19	46.00	20.99	AV	N	Pass
4	3.474	38.13	10.22	56.00	17.87	Peak	N	Pass
4**	3.474	25.09	10.22	46.00	20.91	AV	N	Pass
5	10.180	36.87	10.56	60.00	23.13	Peak	N	Pass
5**	10.180	25.34	10.56	50.00	24.66	AV	N	Pass
6	21.094	37.26	11.19	60.00	22.74	Peak	N	Pass
6**	21.094	26.48	11.19	50.00	23.52	AV	N	Pass

A.6 Radiated Emission

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

Note²: For the test data above 1 GHz, According the ANSI C63.10-2020, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

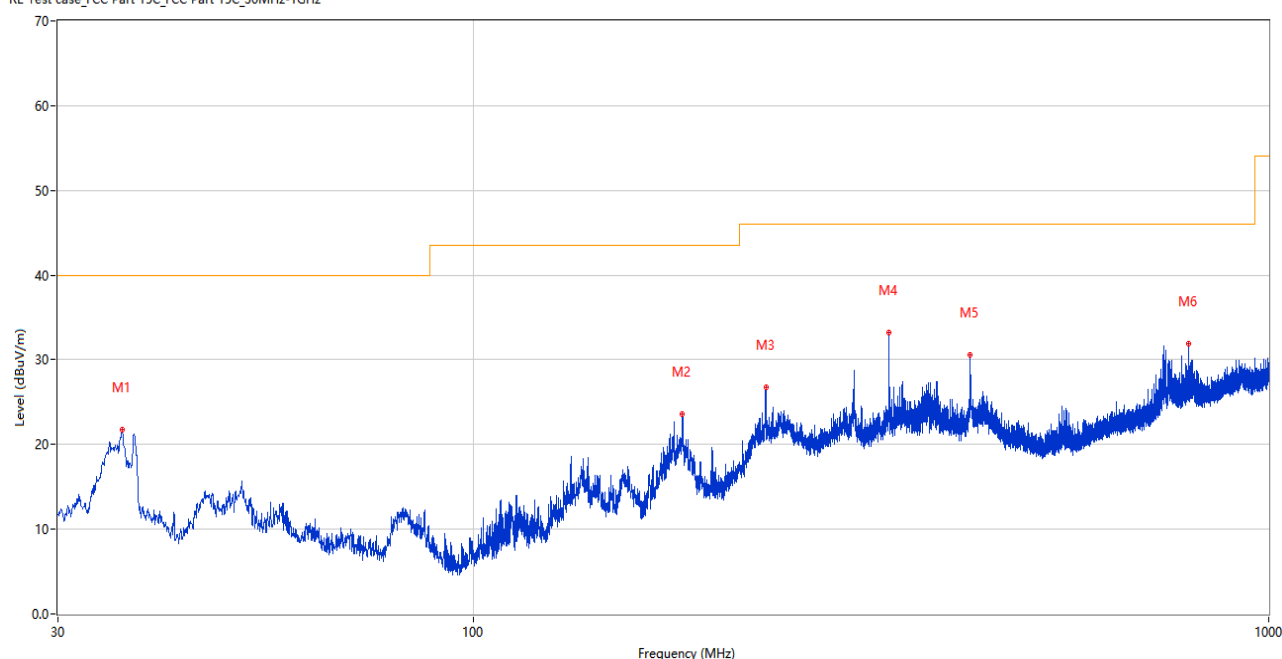
Note³: The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.

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

Test Data and Plots

30 MHz to 1 GHz, ANT H

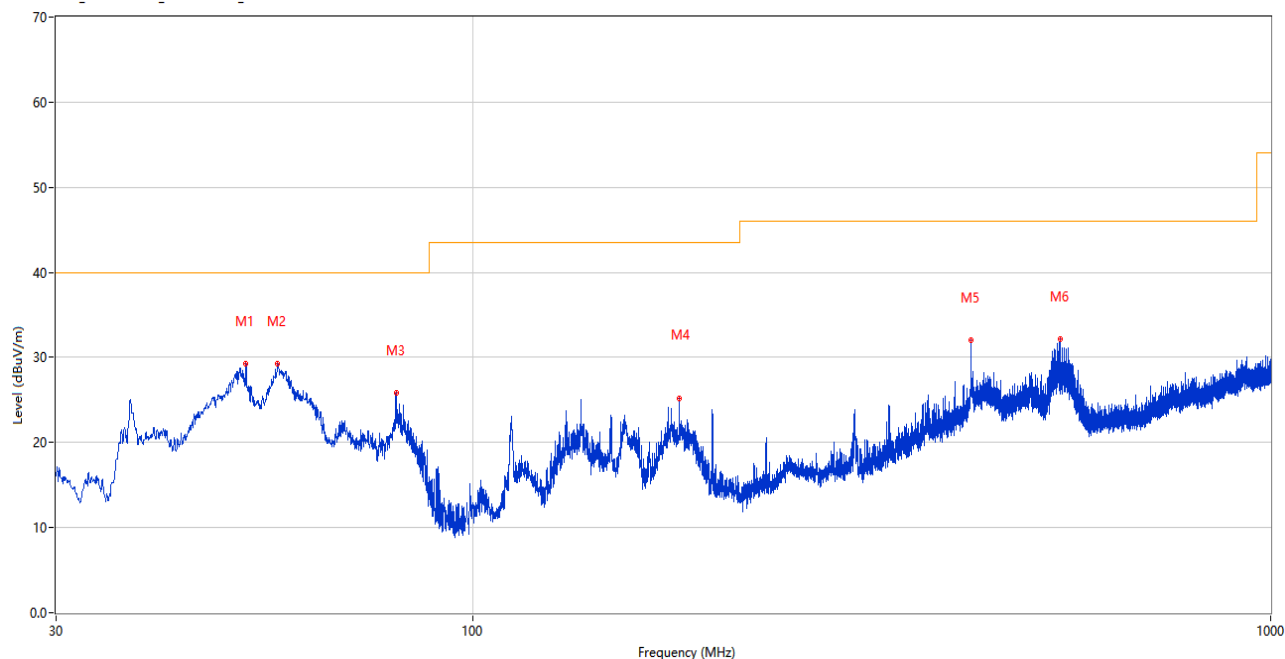
RE Test case_FCC Part 15C_FCC Part 15C_30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	36.111	21.77	-30.22	40.0	18.23	Peak	281.10	100	Horizontal	Pass
2	183.114	23.56	-29.71	43.5	19.94	Peak	277.60	100	Horizontal	Pass
3	233.215	26.75	-29.85	46.0	19.25	Peak	149.60	100	Horizontal	Pass
4	332.640	33.26	-25.17	46.0	12.74	Peak	82.50	100	Horizontal	Pass
5	421.104	30.61	-22.64	46.0	15.39	Peak	96.50	100	Horizontal	Pass
6	792.420	31.93	-13.06	46.0	14.07	Peak	216.90	100	Horizontal	Pass

30 MHz to 1 GHz, ANT V

RE Test case_FCC Part 15C_FCC Part 15C_30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	51.922	29.26	-29.29	40.0	10.74	Peak	180.20	100	Vertical	Pass
2	56.869	29.27	-29.14	40.0	10.73	Peak	274.50	100	Vertical	Pass
3	80.052	25.86	-33.27	40.0	14.14	Peak	198.40	100	Vertical	Pass
4	181.320	25.14	-29.57	43.5	18.36	Peak	0.00	100	Vertical	Pass
5	421.056	32.00	-22.64	46.0	14.00	Peak	200.50	100	Vertical	Pass
6	545.313	32.15	-19.15	46.0	13.85	Peak	165.20	100	Vertical	Pass

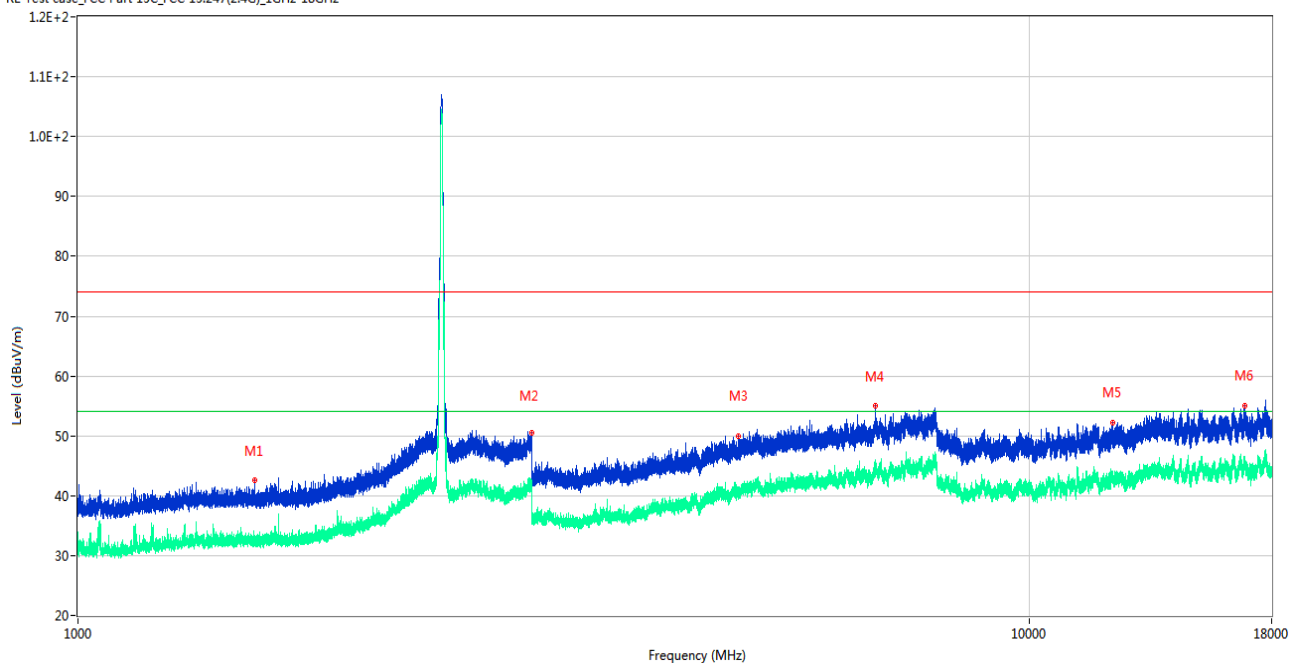
Note¹: The marked spikes near 2400 MHz with circle should be ignored because they are Fundamental signal.

Note²: The spurious above 18G is noise only, do not show on the report.

Note³: All the configurations were pre tested, only the worst configuration has been reported in this report.

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

RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1536.708	42.76	74.0	31.24	Peak	294.00	400	Horizontal	Pass
1**	1536.708	33.44	54.0	20.56	AV	294.00	400	Horizontal	Pass
2	2999.509	50.43	74.0	23.57	Peak	9.00	200	Horizontal	Pass
2**	2999.509	42.17	54.0	11.84	AV	9.00	200	Horizontal	Pass
3	4946.865	50.19	74.0	23.81	Peak	277.00	200	Horizontal	Pass
3**	4946.865	39.42	54.0	14.58	AV	277.00	200	Horizontal	Pass
4	6892.816	55.15	74.0	18.85	Peak	103.00	100	Horizontal	Pass
4**	6892.816	44.51	54.0	9.49	AV	103.00	100	Horizontal	Pass
5	12248.729	52.57	74.0	21.43	Peak	276.00	400	Horizontal	Pass
5**	12248.729	43.20	54.0	10.80	AV	276.00	400	Horizontal	Pass
6	16856.573	55.24	74.0	18.76	Peak	19.00	200	Horizontal	Pass
6**	16856.573	48.77	54.0	8.23	AV	19.00	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	1525.126	44.53	74.0	29.47	Peak	17.00	100	Vertical	Pass
1**	1525.126	34.72	54.0	19.28	AV	17.00	100	Vertical	Pass
2	2977.126	54.76	74.0	19.24	Peak	149.00	200	Vertical	Pass
2**	2977.126	45.76	54.0	8.24	AV	149.00	200	Vertical	Pass
3	4244.678	48.27	74.0	25.73	Peak	14.00	200	Vertical	Pass
3**	4244.678	38.70	54.0	15.30	AV	14.00	200	Vertical	Pass
4	7257.776	55.01	74.0	18.99	Peak	158.00	300	Vertical	Pass
4**	7257.776	44.15	54.0	9.85	AV	158.00	300	Vertical	Pass
5	10849.925	49.79	74.0	24.21	Peak	1.00	200	Vertical	Pass
5**	10849.925	40.59	54.0	13.41	AV	1.00	200	Vertical	Pass
6	17540.104	54.55	74.0	19.45	Peak	353.00	300	Vertical	Pass
6**	17540.104	43.81	54.0	10.19	AV	353.00	300	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1534.729	42.38	74.0	31.62	Peak	162.00	400	Horizontal	Pass
1**	1534.729	32.95	54.0	21.05	AV	162.00	400	Horizontal	Pass
2	2995.808	49.82	74.0	24.18	Peak	2.00	300	Horizontal	Pass
2**	2995.808	41.49	54.0	12.52	AV	2.00	300	Horizontal	Pass
3	4948.593	49.37	74.0	24.63	Peak	205.00	200	Horizontal	Pass
3**	4948.593	38.42	54.0	15.58	AV	205.00	200	Horizontal	Pass
4	6892.296	54.16	74.0	19.84	Peak	142.00	200	Horizontal	Pass
4**	6892.296	43.62	54.0	10.38	AV	142.00	200	Horizontal	Pass
5	12251.651	52.32	74.0	21.68	Peak	5.00	100	Horizontal	Pass
5**	12251.651	42.85	54.0	11.15	AV	5.00	100	Horizontal	Pass
6	16862.904	55.04	74.0	18.96	Peak	100.00	400	Horizontal	Pass
6**	16862.904	44.64	54.0	9.36	AV	100.00	400	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	1531.611	44.04	74.0	29.96	Peak	35.00	300	Vertical	Pass
1**	1531.611	33.95	54.0	20.05	AV	35.00	300	Vertical	Pass
2	2975.565	54.05	74.0	19.95	Peak	135.00	400	Vertical	Pass
2**	2975.565	44.92	54.0	9.08	AV	135.00	400	Vertical	Pass
3	4249.677	47.76	74.0	26.24	Peak	247.00	200	Vertical	Pass
3**	4249.677	38.42	54.0	15.58	AV	247.00	200	Vertical	Pass
4	7262.008	54.93	74.0	19.07	Peak	179.00	200	Vertical	Pass
4**	7262.008	43.84	54.0	10.16	AV	179.00	200	Vertical	Pass
5	10851.655	49.77	74.0	24.23	Peak	216.00	300	Vertical	Pass
5**	10851.655	39.91	54.0	14.09	AV	216.00	300	Vertical	Pass
6	17547.041	53.57	74.0	20.43	Peak	158.00	400	Vertical	Pass
6**	17547.041	42.89	54.0	11.11	AV	158.00	400	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1534.774	42.26	74.0	31.74	Peak	339.00	300	Horizontal	Pass
1**	1534.774	32.94	54.0	21.06	AV	339.00	300	Horizontal	Pass
2	3001.078	49.80	74.0	24.20	Peak	247.00	300	Horizontal	Pass
2**	3001.078	41.69	54.0	12.32	AV	247.00	300	Horizontal	Pass
3	4944.600	49.44	74.0	24.56	Peak	243.00	200	Horizontal	Pass
3**	4944.600	38.95	54.0	15.05	AV	243.00	200	Horizontal	Pass
4	6894.139	54.91	74.0	19.09	Peak	169.00	400	Horizontal	Pass
4**	6894.139	43.74	54.0	10.26	AV	169.00	400	Horizontal	Pass
5	12249.530	52.36	74.0	21.64	Peak	294.00	100	Horizontal	Pass
5**	12249.530	42.85	54.0	11.15	AV	294.00	100	Horizontal	Pass
6	16856.864	54.86	74.0	19.14	Peak	71.00	300	Horizontal	Pass
6**	16856.864	44.40	54.0	9.60	AV	71.00	300	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1530.907	43.94	74.0	30.06	Peak	233.00	300	Vertical	Pass
1**	1530.907	33.85	54.0	20.15	AV	233.00	300	Vertical	Pass
2	2979.381	54.29	74.0	19.71	Peak	99.00	200	Vertical	Pass
2**	2979.381	45.43	54.0	8.57	AV	99.00	200	Vertical	Pass
3	4246.828	48.09	74.0	25.91	Peak	102.00	200	Vertical	Pass
3**	4246.828	38.25	54.0	15.75	AV	102.00	200	Vertical	Pass
4	7261.645	54.60	74.0	19.40	Peak	113.00	300	Vertical	Pass
4**	7261.645	43.24	54.0	10.76	AV	113.00	300	Vertical	Pass
5	10854.039	49.36	74.0	24.64	Peak	308.00	200	Vertical	Pass
5**	10854.039	39.73	54.0	14.27	AV	308.00	200	Vertical	Pass
6	17546.558	53.84	74.0	20.16	Peak	283.00	400	Vertical	Pass
6**	17546.558	43.42	54.0	10.58	AV	283.00	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	1536.253	42.66	74.0	31.34	Peak	118.00	200	Horizontal	Pass
1**	1536.253	33.23	54.0	20.77	AV	118.00	200	Horizontal	Pass
2	3002.553	49.82	74.0	24.18	Peak	239.00	100	Horizontal	Pass
2**	3002.553	41.65	54.0	12.36	AV	239.00	100	Horizontal	Pass
3	4943.060	49.20	74.0	24.80	Peak	266.00	200	Horizontal	Pass
3**	4943.060	38.67	54.0	15.33	AV	266.00	200	Horizontal	Pass
4	6896.755	55.03	74.0	18.97	Peak	45.00	400	Horizontal	Pass
4**	6896.755	44.14	54.0	9.86	AV	45.00	400	Horizontal	Pass
5	12253.794	51.80	74.0	22.20	Peak	242.00	200	Horizontal	Pass
5**	12253.794	43.11	54.0	10.89	AV	242.00	200	Horizontal	Pass
6	16857.668	54.48	74.0	19.52	Peak	273.00	300	Horizontal	Pass
6**	16857.668	44.35	54.0	9.65	AV	273.00	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	1530.168	43.38	74.0	30.62	Peak	163.00	300	Vertical	Pass
1**	1530.168	33.41	54.0	20.59	AV	163.00	300	Vertical	Pass
2	2977.213	53.16	74.0	20.84	Peak	273.00	400	Vertical	Pass
2**	2977.213	44.42	54.0	9.58	AV	273.00	400	Vertical	Pass
3	4243.300	47.24	74.0	26.76	Peak	354.00	200	Vertical	Pass
3**	4243.300	38.23	54.0	15.77	AV	354.00	200	Vertical	Pass
4	7256.921	54.23	74.0	19.77	Peak	249.00	100	Vertical	Pass
4**	7256.921	42.99	54.0	11.01	AV	249.00	100	Vertical	Pass
5	10850.711	49.27	74.0	24.73	Peak	293.00	100	Vertical	Pass
5**	10850.711	39.32	54.0	14.68	AV	293.00	100	Vertical	Pass
6	17539.686	52.65	74.0	21.35	Peak	299.00	200	Vertical	Pass
6**	17539.686	42.40	54.0	11.60	AV	299.00	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	1537.858	41.77	74.0	32.23	Peak	113.00	400	Horizontal	Pass
1**	1537.858	32.51	54.0	21.49	AV	113.00	400	Horizontal	Pass
2	3001.843	49.80	74.0	24.20	Peak	22.00	200	Horizontal	Pass
2**	3001.843	40.96	54.0	13.05	AV	22.00	200	Horizontal	Pass
3	4945.699	48.51	74.0	25.49	Peak	147.00	200	Horizontal	Pass
3**	4945.699	37.83	54.0	16.17	AV	147.00	200	Horizontal	Pass
4	6894.370	54.13	74.0	19.87	Peak	279.00	200	Horizontal	Pass
4**	6894.370	43.35	54.0	10.65	AV	279.00	200	Horizontal	Pass
5	12253.767	51.38	74.0	22.62	Peak	203.00	300	Horizontal	Pass
5**	12253.767	42.11	54.0	11.89	AV	203.00	300	Horizontal	Pass
6	16857.517	54.09	74.0	19.91	Peak	299.00	100	Horizontal	Pass
6**	16857.517	44.10	54.0	9.90	AV	299.00	100	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1528.443	43.23	74.0	30.77	Peak	70.00	200	Vertical	Pass
1**	1528.443	33.57	54.0	20.43	AV	70.00	200	Vertical	Pass
2	2974.679	53.38	74.0	20.62	Peak	19.00	200	Vertical	Pass
2**	2974.679	44.98	54.0	9.02	AV	19.00	200	Vertical	Pass
3	4244.476	48.04	74.0	25.96	Peak	51.00	200	Vertical	Pass
3**	4244.476	37.72	54.0	16.28	AV	51.00	200	Vertical	Pass
4	7257.048	53.70	74.0	20.30	Peak	352.00	200	Vertical	Pass
4**	7257.048	42.51	54.0	11.49	AV	352.00	200	Vertical	Pass
5	10853.308	48.51	74.0	25.49	Peak	8.00	200	Vertical	Pass
5**	10853.308	39.72	54.0	14.28	AV	8.00	200	Vertical	Pass
6	17546.901	53.09	74.0	20.91	Peak	100.00	300	Vertical	Pass
6**	17546.901	42.99	54.0	11.01	AV	100.00	300	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1537.413	41.34	74.0	32.66	Peak	170.00	200	Horizontal	Pass
1**	1537.413	32.39	54.0	21.61	AV	170.00	200	Horizontal	Pass
2	2996.083	49.66	74.0	24.34	Peak	121.00	200	Horizontal	Pass
2**	2996.083	40.77	54.0	13.24	AV	121.00	200	Horizontal	Pass
3	4948.339	49.23	74.0	24.77	Peak	351.00	200	Horizontal	Pass
3**	4948.339	38.81	54.0	15.19	AV	351.00	200	Horizontal	Pass
4	6894.720	54.20	74.0	19.80	Peak	130.00	400	Horizontal	Pass
4**	6894.720	43.01	54.0	10.99	AV	130.00	400	Horizontal	Pass
5	12251.431	51.43	74.0	22.57	Peak	99.00	300	Horizontal	Pass
5**	12251.431	42.06	54.0	11.94	AV	99.00	300	Horizontal	Pass
6	16857.460	54.50	74.0	19.50	Peak	74.00	200	Horizontal	Pass
6**	16857.460	43.51	54.0	10.49	AV	74.00	200	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	1529.268	43.35	74.0	30.65	Peak	279.00	300	Vertical	Pass
1**	1529.268	33.35	54.0	20.65	AV	279.00	300	Vertical	Pass
2	2975.698	53.13	74.0	20.87	Peak	242.00	400	Vertical	Pass
2**	2975.698	44.38	54.0	9.62	AV	242.00	400	Vertical	Pass
3	4243.545	47.16	74.0	26.84	Peak	220.00	200	Vertical	Pass
3**	4243.545	38.20	54.0	15.80	AV	220.00	200	Vertical	Pass
4	7262.204	54.15	74.0	19.85	Peak	321.00	300	Vertical	Pass
4**	7262.204	42.94	54.0	11.06	AV	321.00	300	Vertical	Pass
5	10852.446	49.20	74.0	24.80	Peak	2.00	300	Vertical	Pass
5**	10852.446	39.30	54.0	14.71	AV	2.00	300	Vertical	Pass
6	17540.279	52.61	74.0	21.39	Peak	149.00	100	Vertical	Pass
6**	17540.279	42.35	54.0	11.65	AV	149.00	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	1531.823	42.61	74.0	31.40	Peak	24.00	400	Horizontal	Pass
1**	1531.823	33.20	54.0	20.80	AV	24.00	400	Horizontal	Pass
2	2998.485	49.76	74.0	24.24	Peak	252.00	200	Horizontal	Pass
2**	2998.485	41.56	54.0	12.44	AV	252.00	200	Horizontal	Pass
3	4944.590	49.13	74.0	24.87	Peak	146.00	200	Horizontal	Pass
3**	4944.590	38.66	54.0	15.34	AV	146.00	200	Horizontal	Pass
4	6891.931	55.02	74.0	18.98	Peak	309.00	300	Horizontal	Pass
4**	6891.931	44.09	54.0	9.91	AV	309.00	300	Horizontal	Pass
5	12253.395	51.79	74.0	22.21	Peak	222.00	200	Horizontal	Pass
5**	12253.395	43.04	54.0	10.96	AV	222.00	200	Horizontal	Pass
6	16856.762	54.44	74.0	19.56	Peak	347.00	400	Horizontal	Pass
6**	16856.762	44.29	54.0	9.71	AV	347.00	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	1528.336	43.21	74.0	30.79	Peak	113.00	100	Vertical	Pass
1**	1528.336	33.52	54.0	20.48	AV	113.00	100	Vertical	Pass
2	2974.834	53.33	74.0	20.67	Peak	159.00	400	Vertical	Pass
2**	2974.834	44.95	54.0	9.05	AV	159.00	400	Vertical	Pass
3	4247.277	47.97	74.0	26.03	Peak	268.00	200	Vertical	Pass
3**	4247.277	37.66	54.0	16.34	AV	268.00	200	Vertical	Pass
4	7259.432	53.67	74.0	20.34	Peak	265.00	100	Vertical	Pass
4**	7259.432	42.42	54.0	11.58	AV	265.00	100	Vertical	Pass
5	10854.216	48.51	74.0	25.49	Peak	223.00	300	Vertical	Pass
5**	10854.216	39.71	54.0	14.29	AV	223.00	300	Vertical	Pass
6	17544.226	53.01	74.0	20.99	Peak	288.00	400	Vertical	Pass
6**	17544.226	42.94	54.0	11.06	AV	288.00	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	1535.375	42.71	74.0	31.29	Peak	266.00	300	Horizontal	Pass
1**	1535.375	33.41	54.0	20.60	AV	266.00	300	Horizontal	Pass
2	3000.453	50.35	74.0	23.65	Peak	341.00	400	Horizontal	Pass
2**	3000.453	42.07	54.0	11.93	AV	341.00	400	Horizontal	Pass
3	4946.765	50.12	74.0	23.89	Peak	310.00	200	Horizontal	Pass
3**	4946.765	39.35	54.0	14.65	AV	310.00	200	Horizontal	Pass
4	6892.347	55.05	74.0	18.95	Peak	251.00	100	Horizontal	Pass
4**	6892.347	44.47	54.0	9.53	AV	251.00	100	Horizontal	Pass
5	12254.449	52.50	74.0	21.50	Peak	114.00	100	Horizontal	Pass
5**	12254.449	43.13	54.0	10.87	AV	114.00	100	Horizontal	Pass
6	16860.899	55.16	74.0	18.84	Peak	335.00	100	Horizontal	Pass
6**	16860.899	44.71	54.0	9.29	AV	335.00	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	1524.642	42.89	74.0	31.11	Peak	122.00	100	Vertical	Pass
1**	1524.642	32.55	54.0	21.45	AV	122.00	100	Vertical	Pass
2	2975.522	52.20	74.0	21.80	Peak	51.00	300	Vertical	Pass
2**	2975.522	44.09	54.0	9.91	AV	51.00	300	Vertical	Pass
3	4246.052	46.42	74.0	27.58	Peak	69.00	200	Vertical	Pass
3**	4246.052	37.45	54.0	16.55	AV	69.00	200	Vertical	Pass
4	7260.466	53.89	74.0	20.11	Peak	225.00	400	Vertical	Pass
4**	7260.466	41.94	54.0	12.06	AV	225.00	400	Vertical	Pass
5	10850.029	48.93	74.0	25.07	Peak	147.00	300	Vertical	Pass
5**	10850.029	39.00	54.0	15.01	AV	147.00	300	Vertical	Pass
6	17545.432	52.27	74.0	21.73	Peak	229.00	300	Vertical	Pass
6**	17545.432	41.50	54.0	12.50	AV	229.00	300	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1531.067	42.71	74.0	31.29	Peak	304.00	100	Horizontal	Pass
1**	1531.067	33.34	54.0	20.66	AV	304.00	100	Horizontal	Pass
2	3003.063	50.37	74.0	23.63	Peak	313.00	100	Horizontal	Pass
2**	3003.063	42.14	54.0	11.86	AV	313.00	100	Horizontal	Pass
3	4945.942	50.19	74.0	23.81	Peak	93.00	200	Horizontal	Pass
3**	4945.942	39.33	54.0	14.67	AV	93.00	200	Horizontal	Pass
4	6891.715	55.13	74.0	18.88	Peak	19.00	100	Horizontal	Pass
4**	6891.715	44.44	54.0	9.56	AV	19.00	100	Horizontal	Pass
5	12246.789	52.56	74.0	21.44	Peak	274.00	200	Horizontal	Pass
5**	12246.789	43.19	54.0	10.81	AV	274.00	200	Horizontal	Pass
6	16856.084	55.23	74.0	18.77	Peak	99.00	100	Horizontal	Pass
6**	16856.084	44.76	54.0	9.24	AV	99.00	100	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1529.841	43.16	74.0	30.84	Peak	312.00	100	Vertical	Pass
1**	1529.841	32.74	54.0	21.26	AV	312.00	100	Vertical	Pass
2	2979.432	52.79	74.0	21.21	Peak	98.00	300	Vertical	Pass
2**	2979.432	44.19	54.0	9.81	AV	98.00	300	Vertical	Pass
3	4248.630	47.70	74.0	26.30	Peak	241.00	200	Vertical	Pass
3**	4248.630	37.32	54.0	16.68	AV	241.00	200	Vertical	Pass
4	7259.663	53.50	74.0	20.51	Peak	258.00	400	Vertical	Pass
4**	7259.663	42.12	54.0	11.88	AV	258.00	400	Vertical	Pass
5	10853.226	47.99	74.0	26.01	Peak	33.00	200	Vertical	Pass
5**	10853.226	39.53	54.0	14.47	AV	33.00	200	Vertical	Pass
6	17541.407	52.70	74.0	21.30	Peak	30.00	100	Vertical	Pass
6**	17541.407	41.95	54.0	12.05	AV	30.00	100	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	1536.920	42.12	74.0	31.88	Peak	359.00	100	Horizontal	Pass
1**	1536.920	32.50	54.0	21.50	AV	359.00	100	Horizontal	Pass
2	2998.924	49.59	74.0	24.41	Peak	37.00	100	Horizontal	Pass
2**	2998.924	41.19	54.0	12.82	AV	37.00	100	Horizontal	Pass
3	4945.905	48.41	74.0	25.59	Peak	195.00	200	Horizontal	Pass
3**	4945.905	38.09	54.0	15.91	AV	195.00	200	Horizontal	Pass
4	6892.590	54.15	74.0	19.85	Peak	144.00	300	Horizontal	Pass
4**	6892.590	43.29	54.0	10.71	AV	144.00	300	Horizontal	Pass
5	12254.294	52.17	74.0	21.83	Peak	49.00	100	Horizontal	Pass
5**	12254.294	42.56	54.0	11.44	AV	49.00	100	Horizontal	Pass
6	16861.599	54.51	74.0	19.49	Peak	299.00	100	Horizontal	Pass
6**	16861.599	44.56	54.0	9.44	AV	299.00	100	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1529.399	43.89	74.0	30.11	Peak	189.00	200	Vertical	Pass
1**	1529.399	33.33	54.0	20.67	AV	189.00	200	Vertical	Pass
2	2974.620	53.13	74.0	20.87	Peak	17.00	200	Vertical	Pass
2**	2974.620	43.95	54.0	10.05	AV	17.00	200	Vertical	Pass
3	4247.953	47.34	74.0	26.66	Peak	239.00	200	Vertical	Pass
3**	4247.953	37.52	54.0	16.48	AV	239.00	200	Vertical	Pass
4	7261.983	54.05	74.0	19.95	Peak	86.00	400	Vertical	Pass
4**	7261.983	43.11	54.0	10.89	AV	86.00	400	Vertical	Pass
5	10852.619	48.96	74.0	25.04	Peak	92.00	300	Vertical	Pass
5**	10852.619	39.16	54.0	14.84	AV	92.00	300	Vertical	Pass
6	17541.986	52.79	74.0	21.21	Peak	75.00	100	Vertical	Pass
6**	17541.986	42.06	54.0	11.94	AV	75.00	100	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	1538.459	42.03	74.0	31.97	Peak	311.00	100	Horizontal	Pass
1**	1538.459	32.40	54.0	21.60	AV	311.00	100	Horizontal	Pass
2	2998.568	49.51	74.0	24.49	Peak	170.00	300	Horizontal	Pass
2**	2998.568	40.69	54.0	13.32	AV	170.00	300	Horizontal	Pass
3	4945.606	48.70	74.0	25.30	Peak	62.00	200	Horizontal	Pass
3**	4945.606	38.24	54.0	15.76	AV	62.00	200	Horizontal	Pass
4	6897.961	54.68	74.0	19.32	Peak	81.00	100	Horizontal	Pass
4**	6897.961	43.71	54.0	10.29	AV	81.00	100	Horizontal	Pass
5	12246.947	51.44	74.0	22.56	Peak	181.00	300	Horizontal	Pass
5**	12246.947	42.63	54.0	11.37	AV	181.00	300	Horizontal	Pass
6	16862.107	54.74	74.0	19.26	Peak	15.00	300	Horizontal	Pass
6**	16862.107	44.16	54.0	9.84	AV	15.00	300	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1526.400	43.24	74.0	30.76	Peak	43.00	400	Vertical	Pass
1**	1526.400	33.50	54.0	20.50	AV	43.00	400	Vertical	Pass
2	2976.946	54.28	74.0	19.72	Peak	196.00	100	Vertical	Pass
2**	2976.946	44.93	54.0	9.07	AV	196.00	100	Vertical	Pass
3	4247.060	47.38	74.0	26.62	Peak	315.00	200	Vertical	Pass
3**	4247.060	37.64	54.0	16.36	AV	315.00	200	Vertical	Pass
4	7262.059	53.90	74.0	20.10	Peak	172.00	400	Vertical	Pass
4**	7262.059	42.94	54.0	11.06	AV	172.00	400	Vertical	Pass
5	10849.621	48.80	74.0	25.20	Peak	36.00	400	Vertical	Pass
5**	10849.621	38.82	54.0	15.18	AV	36.00	400	Vertical	Pass
6	17542.893	52.91	74.0	21.09	Peak	282.00	100	Vertical	Pass
6**	17542.893	43.06	54.0	10.94	AV	282.00	100	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1533.193	42.13	74.0	31.87	Peak	89.00	100	Horizontal	Pass
1**	1533.193	32.55	54.0	21.45	AV	89.00	100	Horizontal	Pass
2	3002.753	49.67	74.0	24.33	Peak	118.00	400	Horizontal	Pass
2**	3002.753	42.12	54.0	11.89	AV	118.00	400	Horizontal	Pass
3	4948.565	49.51	74.0	24.49	Peak	55.00	200	Horizontal	Pass
3**	4948.565	39.36	54.0	14.64	AV	55.00	200	Horizontal	Pass
4	6890.766	54.18	74.0	19.82	Peak	97.00	300	Horizontal	Pass
4**	6890.766	43.77	54.0	10.23	AV	97.00	300	Horizontal	Pass
5	12249.961	51.98	74.0	22.02	Peak	223.00	200	Horizontal	Pass
5**	12249.961	42.83	54.0	11.17	AV	223.00	200	Horizontal	Pass
6	16858.065	54.80	74.0	19.20	Peak	98.00	400	Horizontal	Pass
6**	16858.065	43.94	54.0	10.06	AV	98.00	400	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1530.003	43.53	74.0	30.47	Peak	334.00	300	Vertical	Pass
1**	1530.003	34.16	54.0	19.84	AV	334.00	300	Vertical	Pass
2	2974.633	54.41	74.0	19.59	Peak	125.00	400	Vertical	Pass
2**	2974.633	45.64	54.0	8.36	AV	125.00	400	Vertical	Pass
3	4245.807	47.88	74.0	26.12	Peak	23.00	200	Vertical	Pass
3**	4245.807	38.29	54.0	15.71	AV	23.00	200	Vertical	Pass
4	7263.751	54.30	74.0	19.70	Peak	103.00	200	Vertical	Pass
4**	7263.751	43.77	54.0	10.23	AV	103.00	200	Vertical	Pass
5	10853.452	49.38	74.0	24.62	Peak	261.00	300	Vertical	Pass
5**	10853.452	39.77	54.0	14.23	AV	261.00	300	Vertical	Pass
6	17546.740	54.24	74.0	19.76	Peak	234.00	300	Vertical	Pass
6**	17546.740	43.56	54.0	10.44	AV	234.00	300	Vertical	Pass

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

Note¹: The lowest and highest channels are tested to verify the band edge emissions. Please refer to the following the plots for emissions values.

Note²: 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.

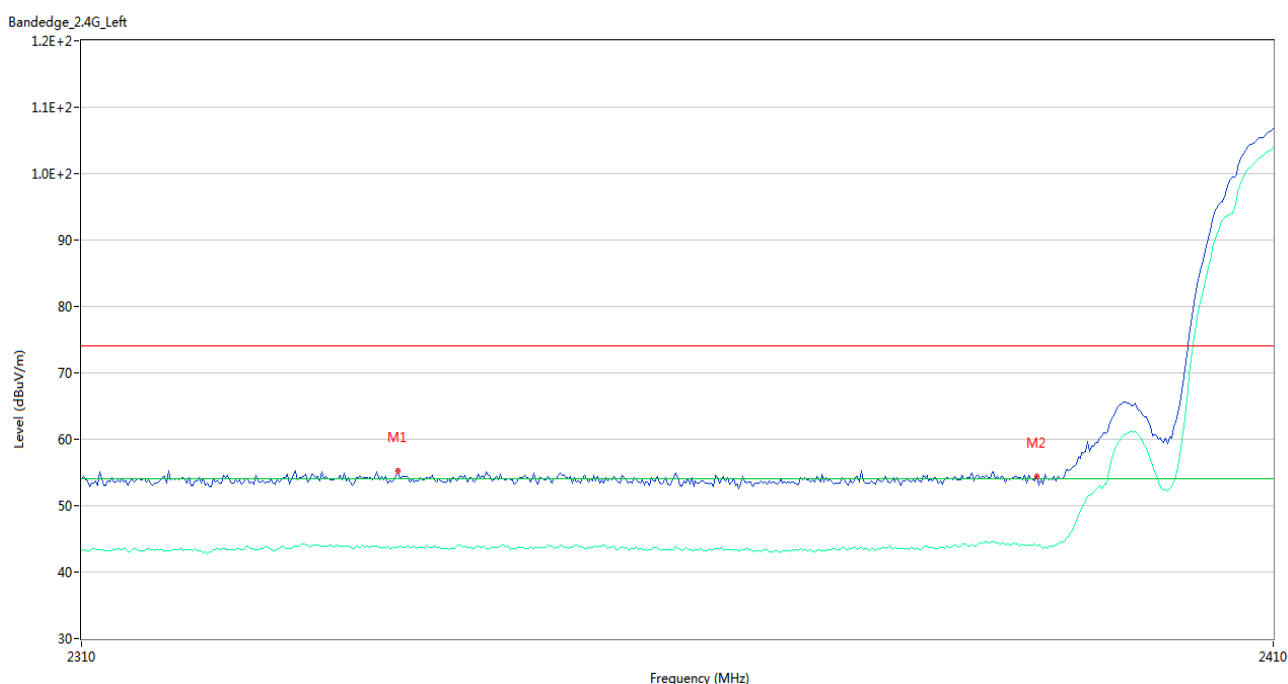
Note³: According the ANSI C63.10-2020, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

Note⁴: All the configurations were pre tested, only the worst configuration has been reported in this report.

Note⁵: Both horizontal and vertical directions were pre tested, only the worst configuration has been reported in this report.

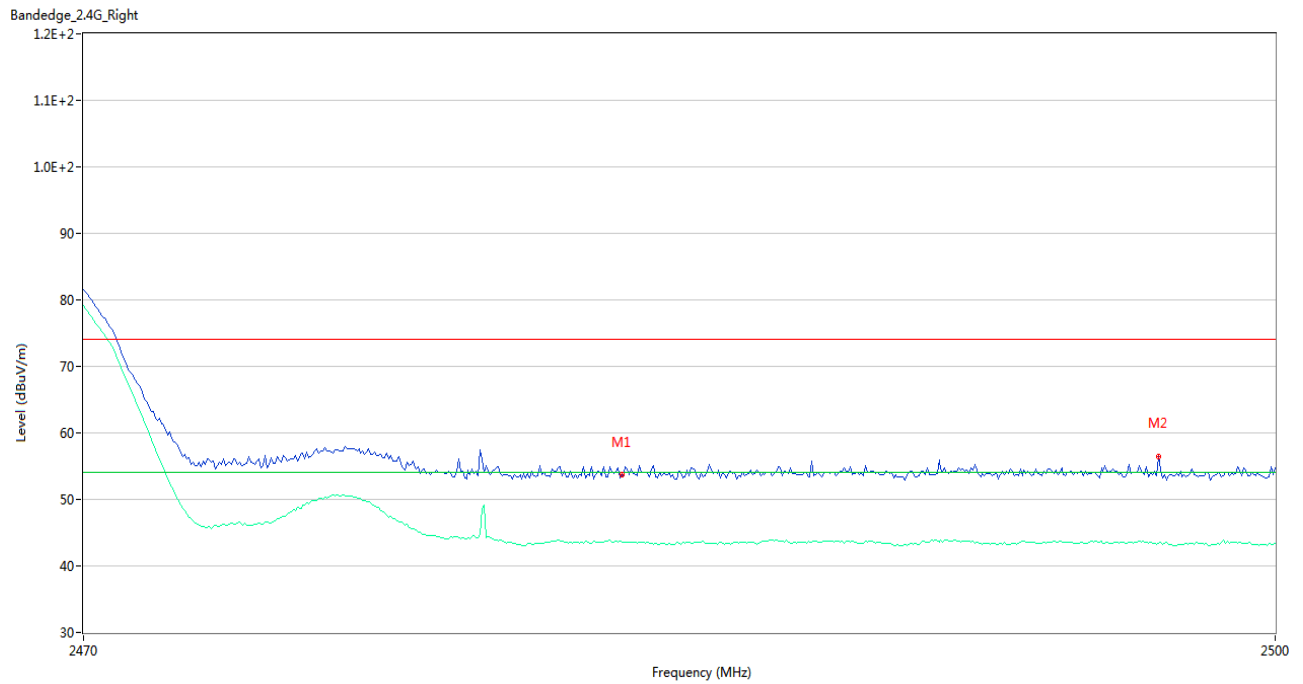
Test Data and Plots

802.11b LOW CHANNEL



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2336.463	55.02	74.0	18.98	Peak	77.00	300	Horizontal	Pass
1**	2336.463	43.58	54.0	10.42	AV	77.00	300	Horizontal	Pass
2	2390.000	54.17	74.0	19.83	Peak	96.00	100	Horizontal	Pass
2**	2390.000	43.81	54.0	10.19	AV	96.00	100	Horizontal	Pass

802.11b HIGH CHANNEL



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	53.02	74.0	20.98	Peak	247.00	200	Horizontal	Pass
1**	2483.500	42.77	54.0	11.23	AV	247.00	200	Horizontal	Pass
2	2497.386	56.11	74.0	17.89	Peak	36.00	100	Horizontal	Pass
2**	2497.386	43.26	54.0	10.74	AV	36.00	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	2334.675	55.53	74.0	18.47	Peak	59.00	100	Horizontal	Pass
1**	2334.675	42.96	54.0	11.04	AV	59.00	100	Horizontal	Pass
2	2390.000	55.96	74.0	18.04	Peak	119.00	100	Horizontal	Pass
2**	2390.000	43.66	54.0	10.34	AV	119.00	100	Horizontal	Pass

802.11g HIGH CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	55.33	74.0	18.67	Peak	27.00	200	Horizontal	Pass
1**	2483.500	43.75	54.0	10.25	AV	27.00	200	Horizontal	Pass
2	2485.831	56.50	74.0	17.50	Peak	149.00	200	Horizontal	Pass
2**	2485.831	43.05	54.0	10.95	AV	149.00	200	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	2388.006	56.35	74.0	17.65	Peak	49.00	200	Horizontal	Pass
1**	2388.006	43.38	54.0	10.62	AV	49.00	200	Horizontal	Pass
2	2390.000	56.08	74.0	17.92	Peak	205.00	100	Horizontal	Pass
2**	2390.000	43.52	54.0	10.48	AV	205.00	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	59.42	74.0	14.58	Peak	314.00	100	Horizontal	Pass
1**	2483.500	43.74	54.0	10.26	AV	314.00	100	Horizontal	Pass
2	2484.220	58.40	74.0	15.60	Peak	35.00	100	Horizontal	Pass
2**	2484.220	43.14	54.0	10.86	AV	35.00	100	Horizontal	Pass

802.11ax20(SU) LOW CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2378.964	56.40	74.0	17.60	Peak	124.00	200	Horizontal	Pass
1**	2378.964	43.31	54.0	10.69	AV	124.00	200	Horizontal	Pass
2	2390.000	56.63	74.0	17.37	Peak	203.00	200	Horizontal	Pass
2**	2390.000	43.83	54.0	10.17	AV	203.00	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	59.48	74.0	14.52	Peak	79.00	100	Horizontal	Pass
1**	2483.500	43.69	54.0	10.31	AV	79.00	100	Horizontal	Pass
2	2486.620	59.23	74.0	14.77	Peak	224.00	200	Horizontal	Pass
2**	2486.620	43.08	54.0	10.92	AV	224.00	200	Horizontal	Pass

A.8 Power Spectral Density (PSD)

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

Test Data

802.11b Mode:

Channel	Measured Spectral power density (dBm/3kHz)	Duty Factor	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
Low	-8.33	0.04	-8.29	8	Pass
Middle	-8.19	0.04	-8.15	8	Pass
High	-8.10	0.04	-8.06	8	Pass

802.11g Mode:

Channel	Measured Spectral power density (dBm/3kHz)	Duty Factor	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
Low	-11.08	0.22	-10.86	8	Pass
Middle	-11.81	0.22	-11.59	8	Pass
High	-10.49	0.22	-10.27	8	Pass

802.11n-20 MHz Mode:

Channel	Measured Spectral power density (dBm/3kHz)	Duty Factor	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
Low	-13.46	0.26	-13.20	8	Pass
Middle	-14.02	0.26	-13.76	8	Pass
High	-13.85	0.26	-13.59	8	Pass

802.11ax-20 MHz(SU) Mode:

Channel	Measured Spectral power density (dBm/3kHz)	Duty Factor	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
Low	-15.45	0.30	-15.15	8	Pass
Middle	-15.27	0.30	-14.97	8	Pass
High	-14.99	0.30	-14.69	8	Pass

Test Plots

802.11b LOW CHANNEL



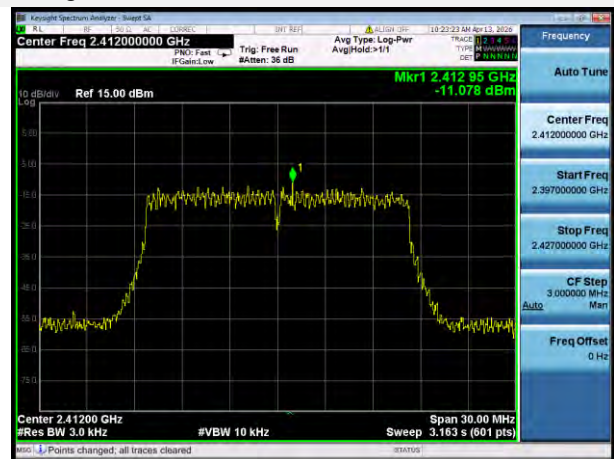
802.11b MIDDLE CHANNEL



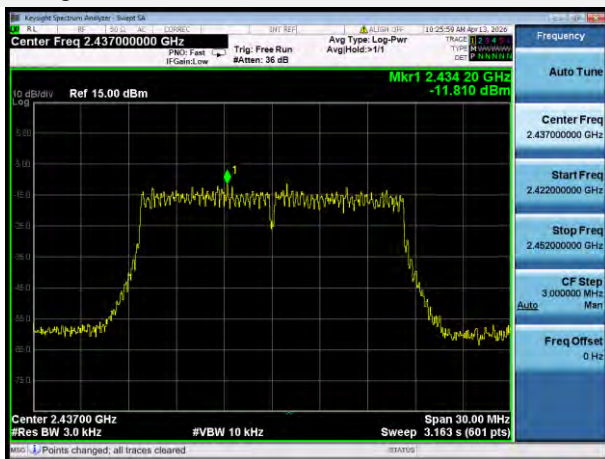
802.11b HIGH CHANNEL



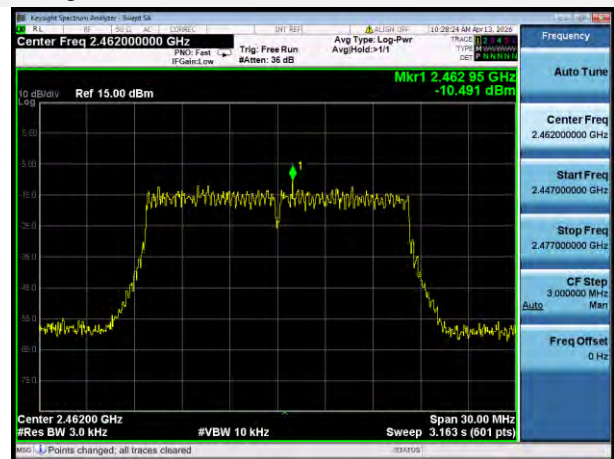
802.11g LOW CHANNEL



802.11g MIDDLE CHANNEL



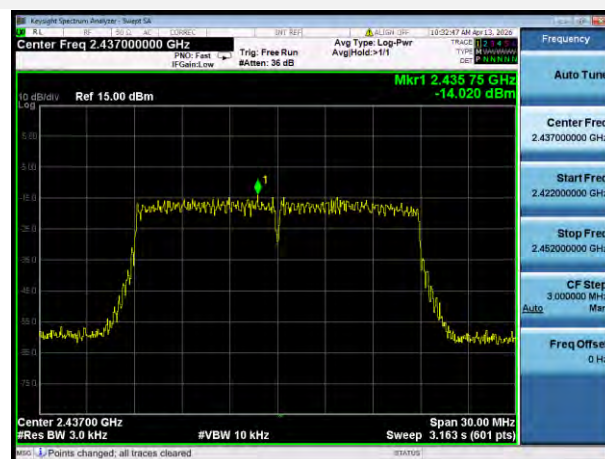
802.11g HIGH CHANNEL



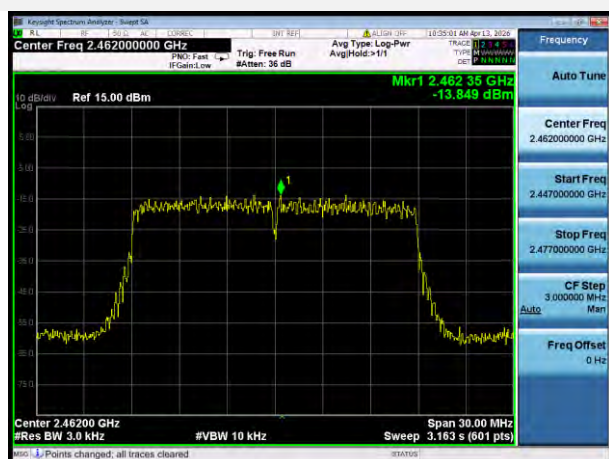
802.11n-20 MHz LOW CHANNEL



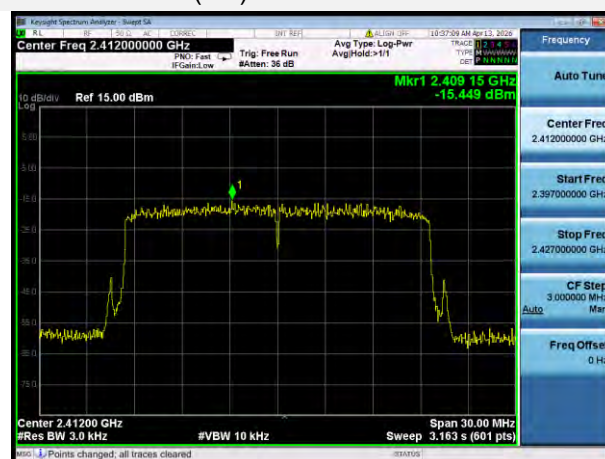
802.11n-20 MHz MIDDLE CHANNEL



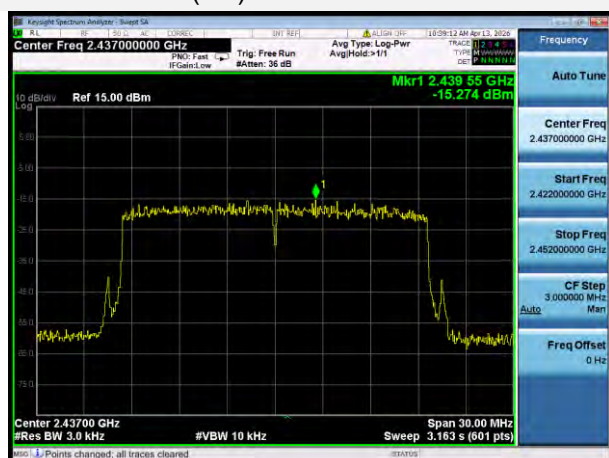
802.11n-20 MHz HIGH CHANNEL



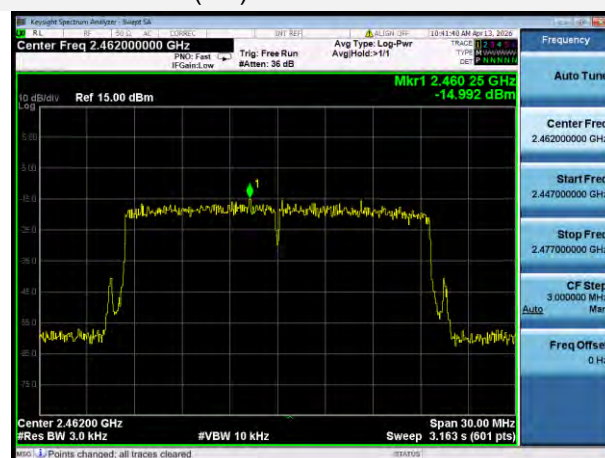
802.11ax-20 MHz(SU) LOW CHANNEL



802.11ax-20 MHz(SU) MIDDLE CHANNEL



802.11ax-20 MHz(SU) HIGH CHANNEL



ANNEX B TEST SETUP PHOTOS

Please refer the document “Ti-EE26030539-AR.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “Ti-EE26030539-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “Ti-EE26030539-AI.PDF”.

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--END OF REPORT--