

TEST REPORT

Applicant: HONG KONG LELEGAO TECHNOLOGY CO., LIMITED
Address: 19H Maxgrand Plaza, No.3 Tai Yau Street, San Po Kong, Kowloon, HongKong
Equipment Type: Tablet
Model Name: FLOW 2
Brand Name: OSCAL
FCC ID: 2BSW8-LINK5
Test Standard: 47 CFR Part 15 Subpart C (refer to section 3.1)
Sample Arrival Date: Jul. 21, 2026
Test Date: Jul. 24, 2026 - Jul. 31, 2026
Date of Issue: Aug. 10, 2026

ISSUED BY:

Shenzhen BALUN Technology Co., Ltd.

Tested by: He Yuyang

Checked by: Li Ganming

Approved by: Liao Jianming
(Technical Director)

He Yu Yang

Li Ganming

Jm Liao

Revision History

Version	Issue Date	Revisions
<u>Rev. 01</u>	<u>Aug. 10, 2026</u>	<u>Initial Issue</u>

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1 GENERAL INFORMATION

1.1 Test Laboratory

Name	Shenzhen BALUN Technology Co., Ltd.
Address	601, Building 2, Intelligent Connected Vehicle Industrial Park, No.55, Xiangshan Road, Luotian Community, Yanluo Sub-district, Bao'an District, Shenzhen
Phone Number	+86 755 6685 0100

1.2 Test Location

Name	Shenzhen BALUN Technology Co., Ltd.
Location	☐ Building 2, Intelligent Connected Vehicle Industrial Park, No.55, Xiangshan Road, Luotian Community, Yanluo Sub-district, Bao'an District, Shenzhen, Guangdong
	☒ 1/F., Building B, Ganghongji High-Tech Intelligent Industrial Park, No.1008, Songbai Road, Yangguang Community, Xili Subdistrict, Nanshan District, Shenzhen, Guangdong
Accreditation Certificate	The laboratory is a testing organization accredited by FCC as a accredited testing laboratory. The designation number is CN1196.

2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	HONG KONG LELEGAO TECHNOLOGY CO., LIMITED
Address	19H Maxgrand Plaza, No.3 Tai Yau Street, San Po Kong, Kowloon, HongKong

2.2 Manufacturer Information

Manufacturer	Shenzhen Doke Electronic Co., LTD
Address	801, Building3, 7th Industrial Zone, Yulv Community, Yutang Road, Guangming District, Shenzhen, China

2.3 General Description for Equipment under Test (EUT)

EUT Name	Tablet
Model Name Under Test	FLOW 2
Series Model Name	N/A
Description of Model name differentiation	N/A
Hardware Version	BND-F868 V2.0
Software Version	FLOW_2_NEU_F868_V1.1_A17_20260825V01
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, 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	FPC Antenna
Antenna Gain	-1.41 dBi
About the Product	Only the WIFI 802.11b, 802.11g, 802.11n (HT20/40), 802.11ax (HE20/40) was tested in this report.

2.5 Channel List

20 MHz		40 MHz	
Channel Number	Frequency (MHz)	Channel Number	Frequency (MHz)
1	2412	3	2422
2	2417	4	2427
3	2422	5	2432
4	2427	6	2437
5	2432	7	2442
6	2437	8	2447
7	2442	9	2452
8	2447		
9	2452		
10	2457		
11	2462		

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	8.1/8.6
	QPSK	16.3/24.4/17.2/25.8
	16QAM	32.5/48.8/34.4/51.6
	64QAM	65/73.1/81.3/68.8/77.4/86
	256QAM	97.5/108.3/103.2/114.7
	1024QAM	121.9/135.4/129/143.4
OFDMA (802.11ax-40 MHz)	BPSK	16.3/17.2
	QPSK	32.5/48.8/34.4/51.6
	16QAM	65/97.5/68.8/103.2
	64QAM	130/146.3/162.5/137.6/154.9/172.1
	256QAM	195/216.7/206.5/229.4
	1024QAM	243.8/270.8/258.1/286.8

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/ 8.6/17.2 Mbps	1/6/11	3/6/9
Occupied Bandwidth	11b/11g/11n20/11n40/ 11ax20/11ax40	1/6/6.5/13.5/ 8.6/17.2 Mbps	1/6/11	3/6/9
Conducted Spurious Emission	11b/11g/11n20/11n40/ 11ax20/11ax40	1/6/6.5/13.5/ 8.6/17.2 Mbps	1/6/11	3/6/9
Conducted Emission	11b/11g/11n20/11n40/ 11ax20/11ax40	1/6/6.5/13.5/ 8.6/17.2 Mbps	1/6/11	3/6/9
Radiated Spurious Emission	11b/11g/11n20/11n40/	1/6/6.5/13.5/	1/6/11	3/6/9

	11ax20/11ax40	8.6/17.2 Mbps		
Band Edge	11b/11g/11n20/11n40/ 11ax20/11ax40	1/6/6.5/13.5/ 8.6/17.2 Mbps	1/6/11	3/6/9
Power spectral density (PSD)	11b/11g/11n20/11n40/ 11ax20/11ax40	1/6/6.5/13.5/ 8.6/17.2 Mbps	1/6/11	3/6/9

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	ANSI C63.10-2020	American National Standard for Procedures for Compliance Testing of Unlicensed Wireless Devices
3	KDB Publication 558074 D01v05r02	GUIDANCE FOR COMPLIANCE MEASUREMENTS ON DIGITAL TRANSMISSION SYSTEM, FREQUENCY HOPPING SPREAD SPECTRUM SYSTEM, AND HYBRID SYSTEM DEVICES OPERATING UNDER SECTION 15.247 OF THE FCC RULES

3.2 Test Verdict

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

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

Note ²: Compared with the EUT of test report Ti-CC26060416-603, the EUT of this report shows different things as below:

- 1.Different structure and position of the camera,
- 2.The flash is added,
- 3.Different antenna size and antenna position.
- 4.Different models and brand name.

Other hardware circuit and software are the same as EUT referred to in test report Ti-CC26060416-603. Therefore, Radiated Spurious Emission & Band Edge (Restricted-band band-edge) worst-case were retested in this report. in addition to the above differences, all test data and EUT information are derived from the report Ti-CC26060416-603 published by Shenzhen BALUN Technology Co., Ltd. on Jul. 24, 2026.

4 GENERAL TEST CONFIGURATIONS

4.1 Test Environments

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

Relative Humidity	53% to 55%	
Atmospheric Pressure	100 kPa to 102 kPa	
Temperature	NT (Normal Temperature)	+20.6℃ to +22.3℃
Working Voltage of the EUT	NV (Normal Voltage)	3.85V

4.2 Test Equipment List

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
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	2026.05.12	2028.05.11
Anechoic Chamber	YIHENG	C8-966	107	2024.05.12	2027.05.11
EMI Receiver	Keysight	N9038A	MY55330121	2025.12.26	2026.12.25
Filtering unit	BALUN	SU319F	LW-SZ19D0001F01	N/A	N/A
Switching unit	BALUN	SU319	LW-SZ19D0001S01	N/A	N/A

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%

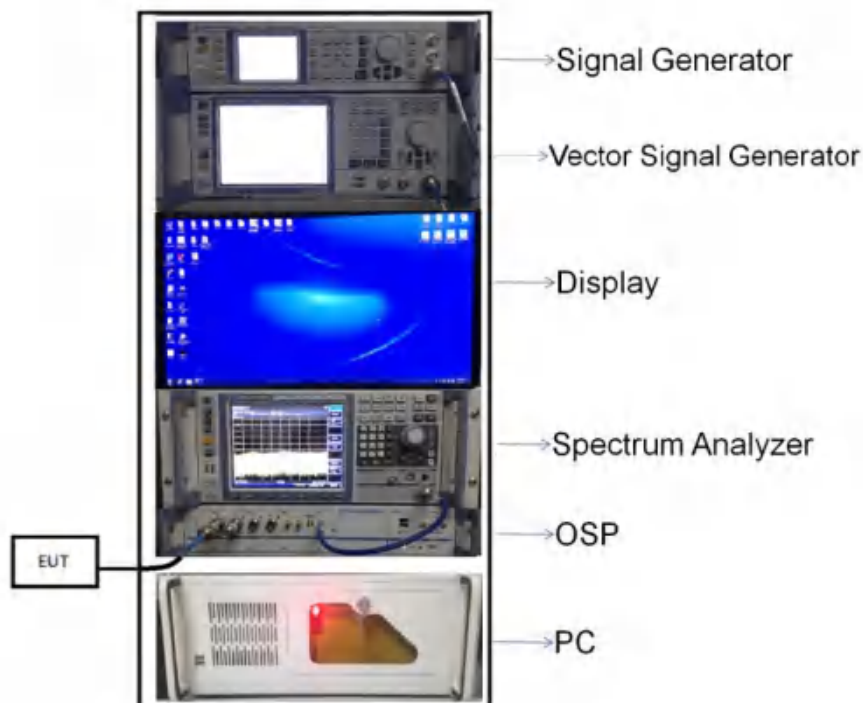
4.5 Description of Test Setup

4.5.1 For Antenna Port Test

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

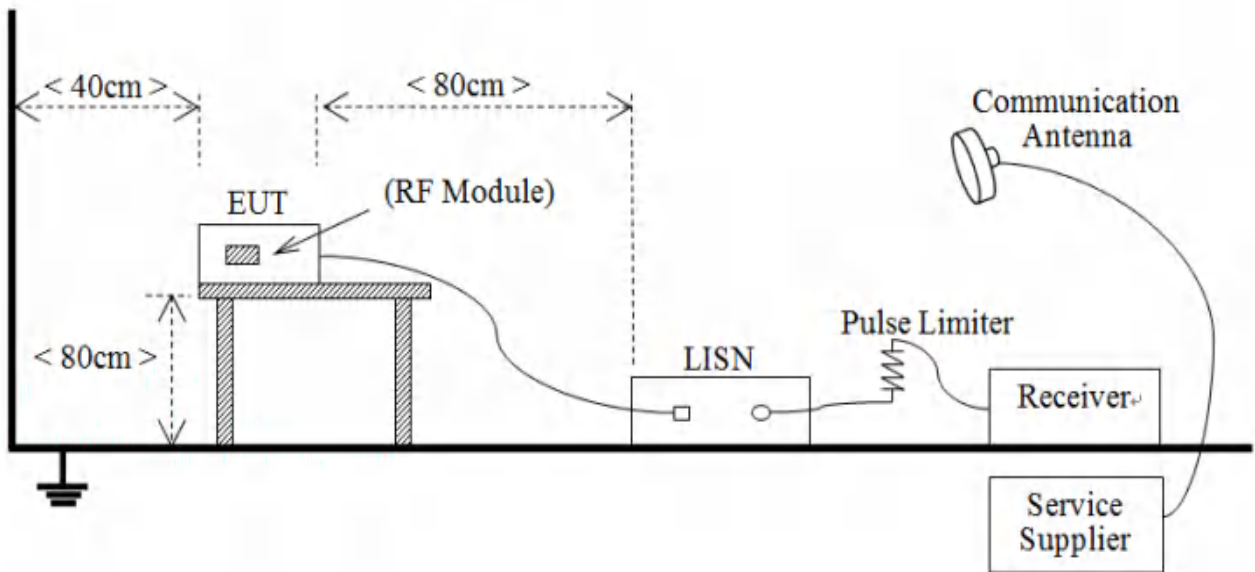
For example: the measurement value is 10 dBm and the cable 0.5dBm used, then the final result of EUT:

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



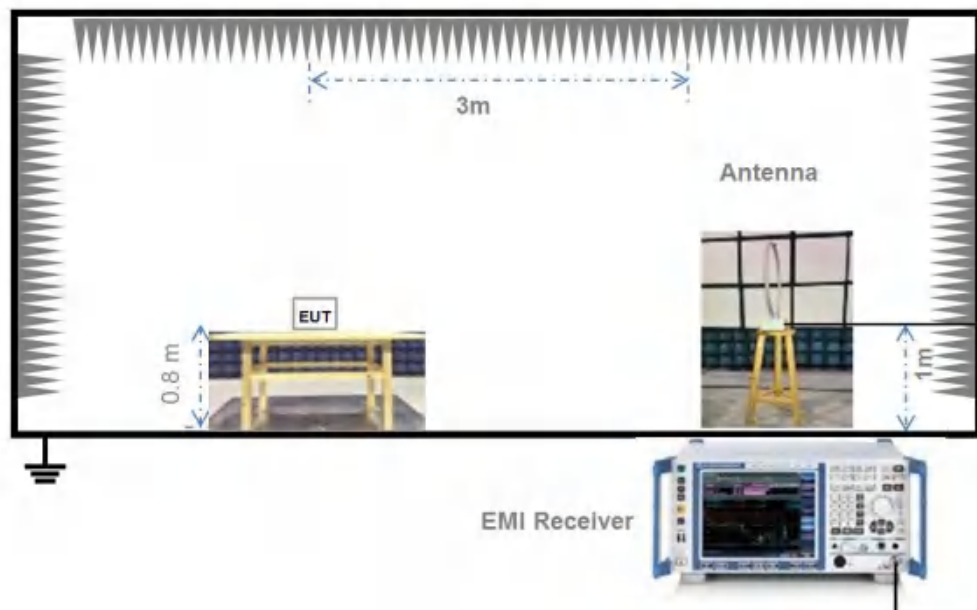
(Diagram 1)

4.5.2 For AC Power Supply Port Test



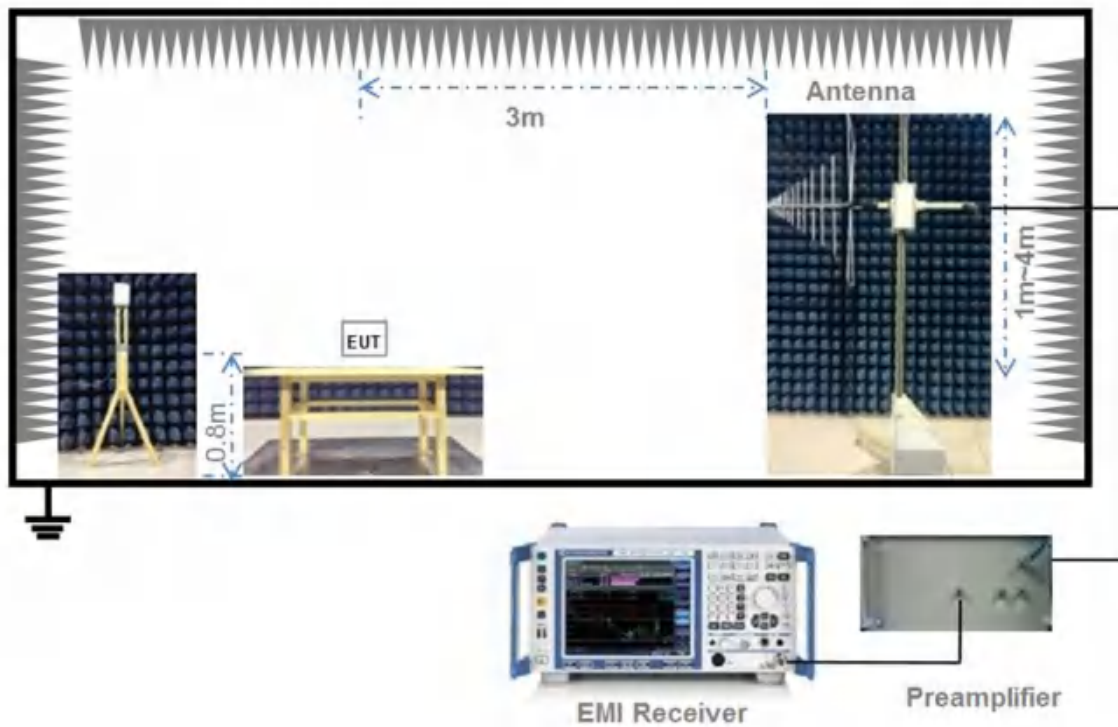
(Diagram 2)

4.5.3 For Radiated Test (Below 30 MHz)



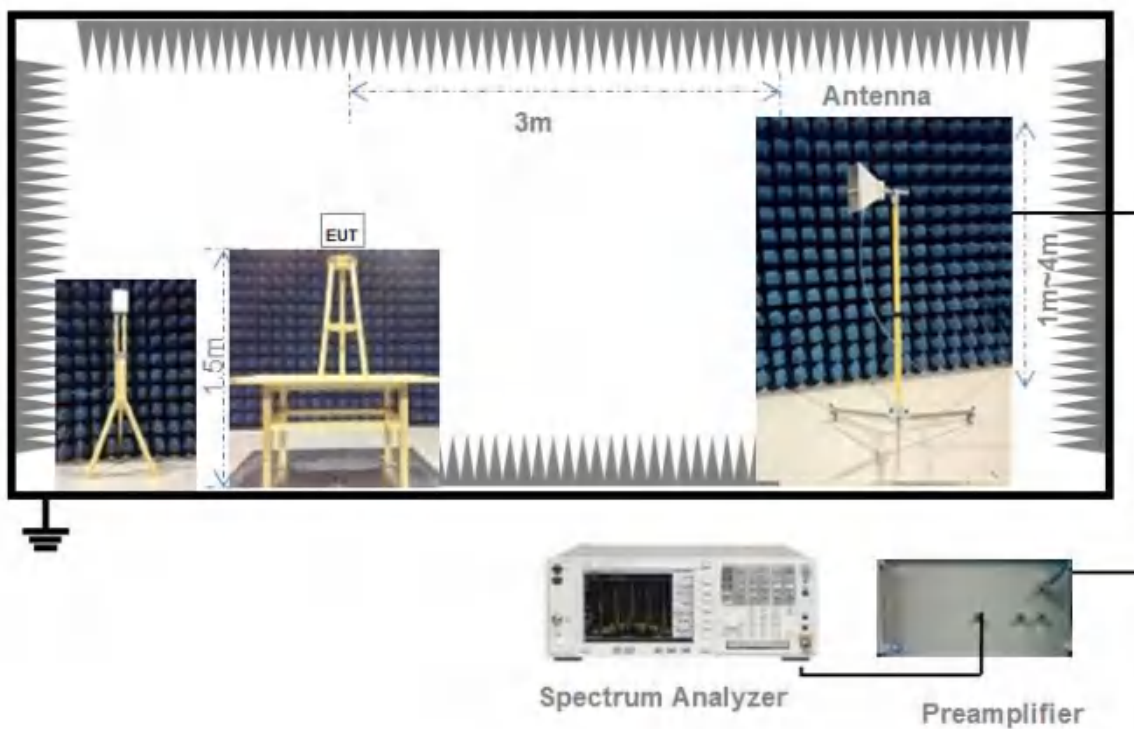
(Diagram 3)

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

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

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

5.1.2 Antenna Anti-Replacement Construction

The Antenna Anti-Replacement as following method:

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

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

5.1.3 Antenna Gain

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

5.2 Output Power

5.2.1 Test Limit

FCC § 15.247(b)

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

5.2.2 Test Setup

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

5.2.3 Test Procedure

Maximum peak conducted output power

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

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

Maximum conducted (average) output power (Reporting Only)

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

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

Measurements of duty cycle

The zero-span mode on a spectrum analyzer or EMI receiver if the response time and spacing between

bins on the sweep are sufficient to permit accurate measurements of the on and off times of the transmitted signal.

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

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

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

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

5.2.4 Test Result

Please refer to ANNEX A.1.

5.3 Occupied Bandwidth

5.3.1 Limit

FCC §15.247(a)

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

5.3.2 Test Setup

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

5.3.3 Test Procedure

Option 1:

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 = No faster than coupled (auto) time.

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.

Option 2:

The automatic bandwidth measurement capability of an instrument may be employed using the X dB bandwidth mode with X set to 6 dB, if the functionality described in 11.8.1 (i.e., RBW = 100 kHz,

VBW $\geq 3 \times$ RBW, and peak detector with maximum hold) is implemented by the instrumentation function. When using this capability, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be ≥ 6 dB.

99% bandwidth:

Use the following spectrum analyzer settings:

Set RBW = shall be in the range of 1% to 5% of the OBW.

Set the video bandwidth (VBW) ≥ 3 RBW.

Set the Span to 1.5 to 5 times of OBW.

Detector = Peak.

Trace mode = max hold.

The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission.

5.3.4 Test Result

Please refer to ANNEX A.2.

5.4 Conducted Spurious Emission

5.4.1 Limit

FCC §15.247(d)

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

5.4.2 Test Setup

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

5.4.3 Test Procedure

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

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

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

Reference level measurement

Establish a reference level by using the following procedure:

Set instrument center frequency to DTS channel center frequency.

Set the span to ≥ 1.5 times the DTS bandwidth.

Set the RBW = 100 kHz.

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

Detector = peak.

Sweep time = auto couple.

Trace mode = max hold.

Allow trace to fully stabilize.

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

Emission level measurement

Use the following spectrum analyzer settings:

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

Set the RBW = 100 kHz.

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

Detector = peak.

Sweep time = auto couple.

Trace mode = max hold.

Allow trace to fully stabilize.

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

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

5.4.4 Test Result

Please refer to ANNEX A.3.

5.5 Band Edge (Authorized-band band-edge)

5.5.1 Limit

FCC §15.247(d)

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

5.5.2 Test Setup

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

5.5.3 Test Procedure

The 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 = No faster than coupled auto time.

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 = No faster than coupled auto time.

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.

5.5.4 Test Result

Please refer to ANNEX A.4.

5.6 Conducted Emission

5.6.1 Limit

FCC §15.207

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

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

5.6.2 Test Setup

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

5.6.3 Test Procedure

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

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

5.6.4 Test Result

Please refer to ANNEX A.5.

5.7 Radiated Spurious Emission

5.7.1 Limit

FCC §15.209&15.247(d)

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

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

Frequency (MHz)	Field Strength (μV/m)	Measurement Distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 - 30.0	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

Note:

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

5.7.2 Test Setup

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

5.7.3 Test Procedure

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

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

General Procedure for conducted measurements in restricted bands

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

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

where:

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

EIRP = equivalent isotropic radiated power in dBm

D = specified measurement distance in meters.

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

Quasi-Peak measurement procedure

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

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

Peak power measurement procedure

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

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

longer for low duty cycle applications).

Table 1—RBW as a function of frequency

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

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

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

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

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

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

Determining the applicable transmit antenna gain

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

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

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

Radiated spurious emission test

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

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

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

The power of the EUT transmitting frequency should be ignored.

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

Use the following spectrum analyzer settings:

Span = wide enough to fully capture the emission being measured

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

VBW $\geq$ RBW

Sweep = auto

Detector function = peak

Trace = max hold

5.7.4 Test Result

Please refer to ANNEX A.6.

5.8 Band Edge (Restricted-band band-edge)

5.8.1 Limit

FCC §15.209&15.247(d)

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

5.8.2 Test Setup

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

5.8.3 Test Procedure

The following procedures may be used to determine the average field strength or power of an unwanted emission that is within 2 MHz of the authorized band-edge. Use the procedure described in 11.12.3.2.2 when using an average detector and the EUT can be configured to transmit continuously (i.e., $D \geq 98\%$). Use the procedure described in 11.12.3.2.3 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 $\pm 2\%$). Use the procedure described in 11.12.3.2.4 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%).

If the EUT can be configured or modified to transmit continuously ($D \geq 98\%$), measured using the following method (with EUT transmitting continuously):

Use the following spectrum analyzer settings:

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

RBW = 100 kHz.

VBW $\geq [3 \times \text{RBW}]$.

Detector = Power averaging (rms), if $[\text{span} / (\# \text{ of points in sweep})] \leq (\text{RBW} / 2)$.

Averaging type = power (i.e., rms):

As an alternative, the detector and averaging type may be set for linear voltage averaging.

Some instruments require linear display mode to use linear voltage averaging. Log or dB averaging shall not be used.

Sweep time = auto.

Perform a trace average of at least 100 traces.

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.

If continuous transmission of the EUT ($D \geq 98\%$) cannot be achieved and the duty cycle is constant (duty cycle variations are less $\pm 2\%$), then the following procedure may be used to measure the average power of unwanted emissions within 2 MHz of the authorized band-edge:

RBW = 100 kHz.

VBW $\geq [3 \times \text{RBW}]$.

Detector = Power averaging (rms), if $[\text{span} / (\# \text{ of points in sweep})] \leq (\text{RBW} / 2)$.

Averaging type = power (i.e., rms):

Detector = Power averaging (rms), if $[\text{span} / (\# \text{ of points in sweep})] \leq (\text{RBW} / 2)$. Satisfying this condition might 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.

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 to use linear voltage averaging. Log or dB averaging shall not be used.

Sweep time = auto.

Perform a trace average of at least 100 traces.

Compute the power by integrating the spectrum over 1 MHz using the instrument's band-power measurement function with band limits set equal to the emission frequency (femission) ± 0.5 MHz. If the spectrum analyzer 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.

A correction factor shall be added to the measurement results prior to comparing with the emission limit to compute the emission level that would have been measured had the test been performed at 100% 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 $[10 \log (1 / D)]$, where D is the duty cycle.

2) If linear voltage averaging mode was used in step f), then the applicable correction factor is $[20 \log (1 / D)]$, where D is the duty cycle.

3) If a specific emission is demonstrated to be continuous ($D \geq 98\%$) rather than turning ON and

OFF with the transmit cycle, then no duty cycle correction is required for that emission.

Reduction of the measured emission amplitude levels to account for operational duty cycle is not permitted. Determining compliance is based on emission levels occurring during transmission—it is not based on an average across ON and OFF times of the transmitter.

5.8.4 Test Result

Please refer to ANNEX A.7.

5.9 Power Spectral density (PSD)

5.9.1 Limit

FCC §15.247(e)

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

5.9.2 Test Setup

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

5.9.3 Test Procedure

Set analyzer center frequency to DTS channel center frequency.

Set the span to 1.5 times the DTS bandwidth.

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

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

Detector = peak.

Sweep time = auto couple.

Trace mode = max hold.

Allow trace to fully stabilize.

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

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

5.9.4 Test Result

Please refer to ANNEX A.8.

ANNEX A TEST RESULT

A.1 Output Power

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	6.099	6.19	98.53%	0.06
802.11g	1.381	1.52	90.86%	0.42
802.11n-20 MHz	1.274	1.411	90.29%	0.44
802.11n-40 MHz	0.641	0.771	83.14%	0.80
802.11ax-20 MHz	1.274	1.411	90.29%	0.44
802.11ax-40 MHz	0.641	0.771	83.14%	0.80

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

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	21.21	132.13	30	1000	Pass
Middle	21.05	127.35			Pass
High	20.92	123.59			Pass

802.11g Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	26.82	480.84	30	1000	Pass
Middle	27.34	542.00			Pass
High	27.10	512.86			Pass

802.11n-20 MHz Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	26.75	473.15	30	1000	Pass
Middle	27.23	528.45			Pass
High	27.01	502.34			Pass

802.11n-40 MHz Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	22.32	170.61	30	1000	Pass
Middle	27.33	540.75			Pass
High	27.18	522.40			Pass

802.11ax-20 MHz(SU) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	28.14	651.63	30	1000	Pass
Middle	28.52	711.21			Pass
High	28.32	679.20			Pass

802.11ax-40 MHz(SU) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	28.19	659.17	30	1000	Pass
Middle	28.63	729.46			Pass
High	28.51	709.58			Pass

Average Power Test Data

802.11b Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	18.28	67.30	30	1000	Pass
Middle	18.13	65.01			Pass
High	17.96	62.52			Pass

802.11g Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	18.70	74.13	30	1000	Pass
Middle	19.17	82.60			Pass
High	18.95	78.52			Pass

802.11n-20 MHz Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	18.59	72.28	30	1000	Pass
Middle	19.08	80.91			Pass
High	18.82	76.21			Pass

802.11n-40 MHz Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	17.85	60.95	30	1000	Pass
Middle	19.01	79.62			Pass
High	18.92	77.98			Pass

802.11ax-20 MHz(SU) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	18.36	68.55	30	1000	Pass
Middle	18.89	77.45			Pass
High	18.64	73.11			Pass

802.11ax-40 MHz(SU) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	18.55	71.61	30	1000	Pass
Middle	18.81	76.03			Pass
High	18.75	74.99			Pass

A.2 Occupied Bandwidth

Note ¹: 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	9.2	13.203	≥500
Middle	8.7	13.182	≥500
High	8.7	13.170	≥500

802.11g Mode:

Channel	6 dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limits (kHz)
Low	16.2	18.020	≥500
Middle	15.5	17.342	≥500
High	15.9	17.354	≥500

802.11n-20MHz Mode:

Channel	6 dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limits (kHz)
Low	15.3	18.865	≥500
Middle	15.8	18.339	≥500
High	16.4	18.202	≥500

802.11n-40MHz Mode:

Channel	6 dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limits (kHz)
Low	36.3	36.524	≥500
Middle	33.9	36.492	≥500
High	35.3	37.009	≥500

802.11ax-20 MHz(SU) Mode:

Channel	6 dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limits (kHz)
Low	17.6	19.252	≥500
Middle	18.3	19.321	≥500
High	16.7	19.296	≥500

802.11ax-40 MHz(SU) Mode:

Channel	6 dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limits (kHz)
Low	36.0	37.918	≥ 500
Middle	35.5	38.096	≥ 500
High	36.1	38.074	≥ 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



802.11n-20 MHz LOW CHANNEL



802.11n-20 MHz MIDDLE CHANNEL



802.11n-20 MHz HIGH CHANNEL



802.11n-40 MHz LOW CHANNEL



802.11n-40 MHz MIDDLE CHANNEL



802.11n-40 MHz HIGH CHANNEL



802.11ax-20 MHz(SU) LOW CHANNEL



802.11ax-20 MHz(SU) MIDDLE CHANNEL



802.11ax-20 MHz(SU) HIGH CHANNEL



802.11ax-40 MHz(SU) LOW CHANNEL



802.11ax-40 MHz(SU) MIDDLE CHANNEL



802.11ax-40 MHz(SU) HIGH CHANNEL



A.3 Conducted Spurious Emissions

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

Test Data

802.11b Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-34.79	4.02	-15.98	Pass
Middle	-35.12	3.87	-16.13	Pass
High	-35.15	3.53	-16.47	Pass

802.11g Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-47.28	-1.36	-21.36	Pass
Middle	-45.67	1.97	-18.03	Pass
High	-45.25	2.07	-17.93	Pass

802.11n-20MHz Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-45.58	1.95	-18.05	Pass
Middle	-43.86	2.14	-17.86	Pass
High	-44.20	1.11	-18.89	Pass

802.11n-40MHz Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-49.48	-1.67	-21.67	Pass
Middle	-48.35	-0.85	-20.85	Pass
High	-45.09	-0.39	-20.39	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	-46.95	2.14	-17.86	Pass
Middle	-45.17	3.18	-16.82	Pass
High	-46.28	2.97	-17.03	Pass

802.11ax-40 MHz(SU) Mode:

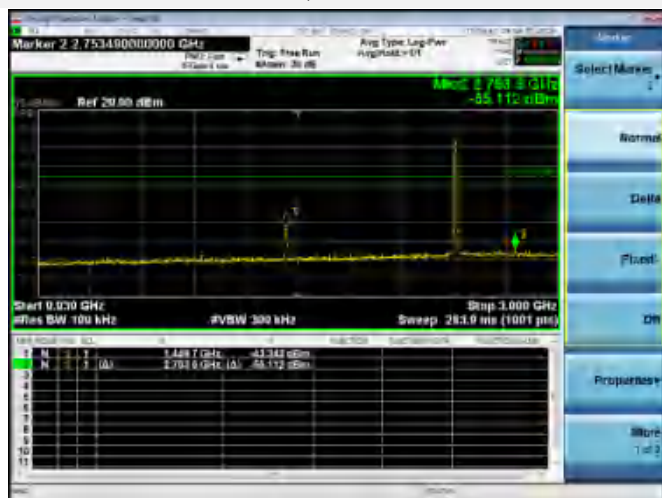
Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-48.17	-0.93	-20.93	Pass
Middle	-47.49	-0.22	-20.22	Pass
High	-48.22	-0.39	-20.39	Pass

Test Plots

802.11b LOW CHANNEL CARRIER LEVEL



802.11b LOW CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



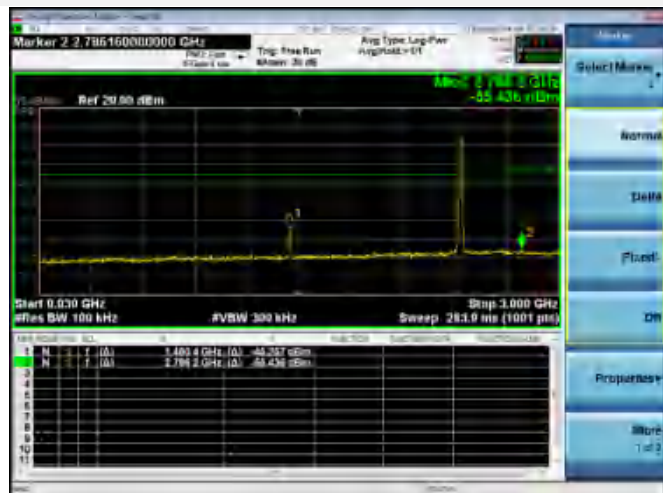
802.11b LOW CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



802.11b MIDDLE CHANNEL CARRIER LEVEL



802.11b MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



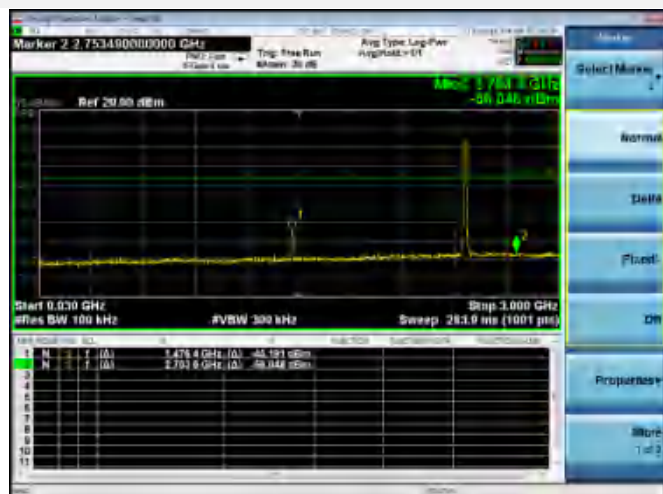
802.11b MIDDLE CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



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



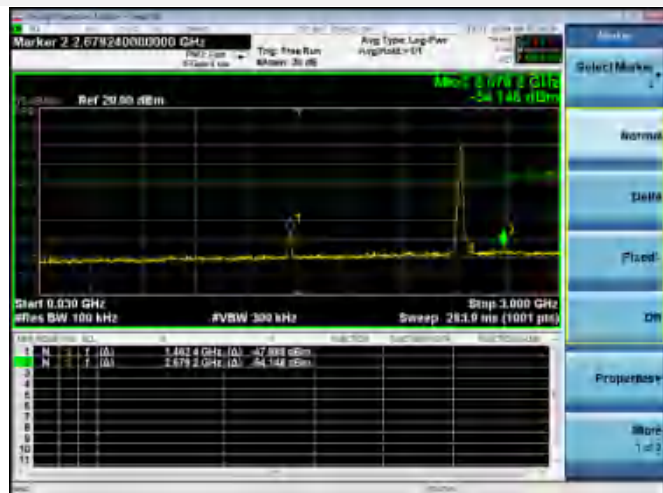
802.11g LOW CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



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



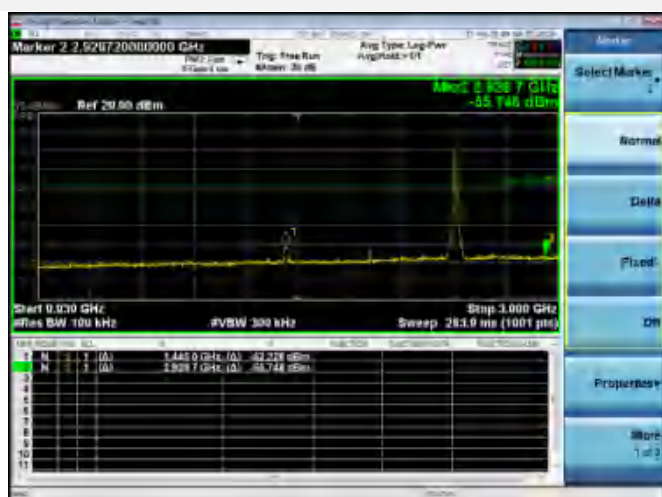
802.11g HIGH CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



802.11g HIGH CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



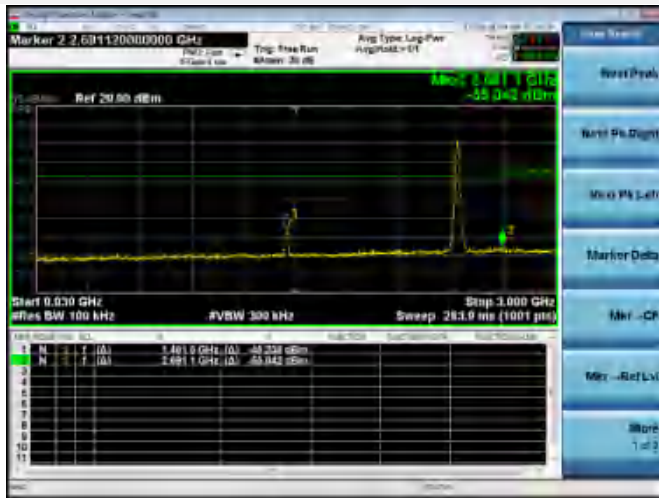
802.11n-20 MHz LOW CHANNEL CARRIER LEVEL

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



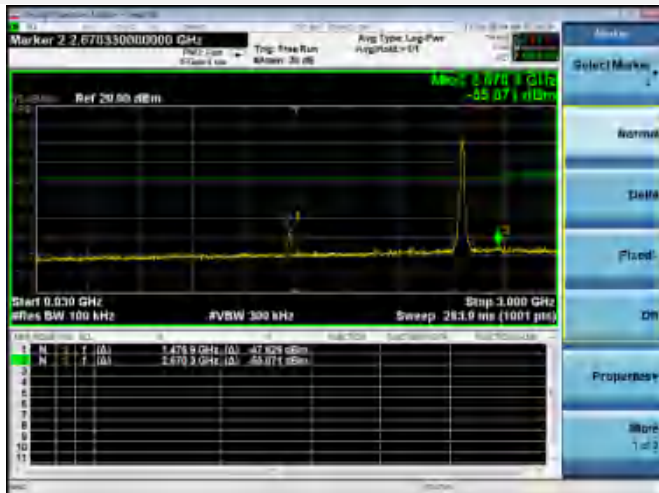
802.11n-20 MHz MIDDLE CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



802.11n-20 MHz HIGH CHANNEL CARRIER LEVEL



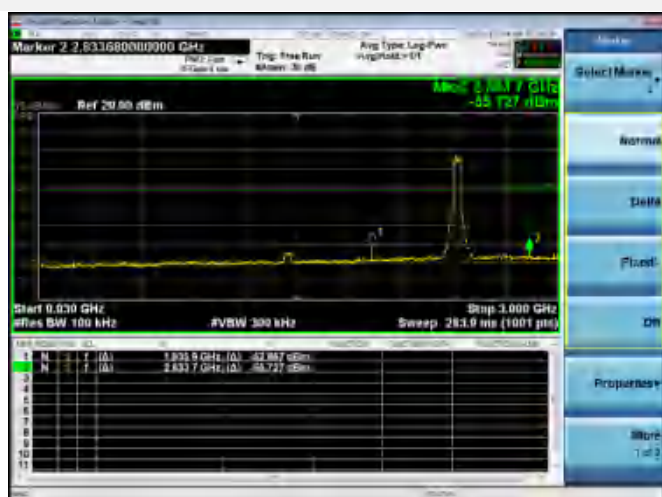
802.11n-20 MHz HIGH CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



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



802.11n-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



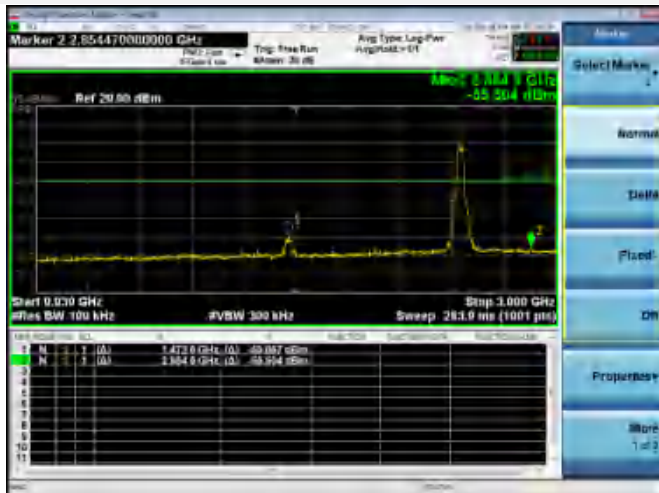
802.11n-40 MHz MIDDLE CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



802.11n-40 MHz HIGH CHANNEL CARRIER LEVEL



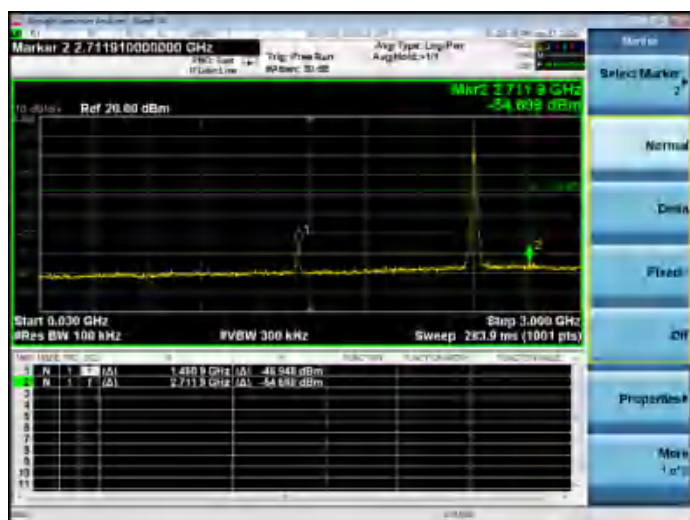
802.11n-40 MHz HIGH CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



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



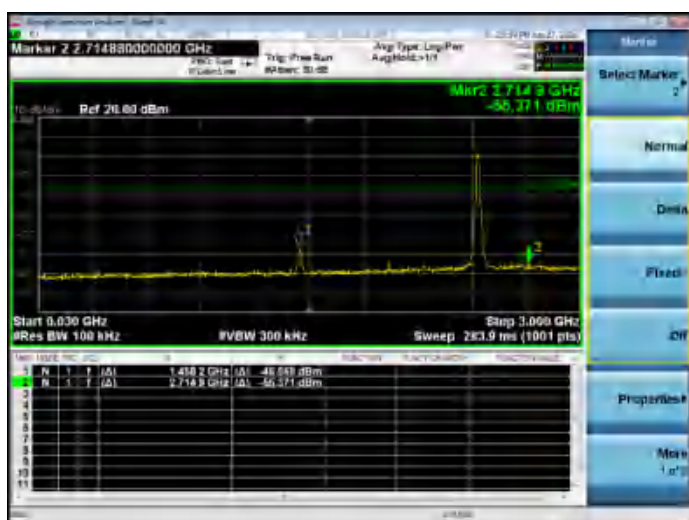
802.11ax-20 MHz(SU) LOW CHANNEL CARRIER LEVEL

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



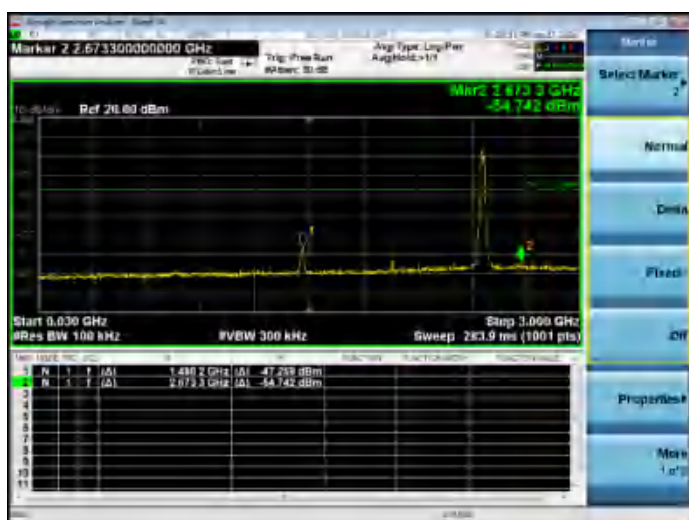
802.11ax-20 MHz(SU) MIDDLE CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



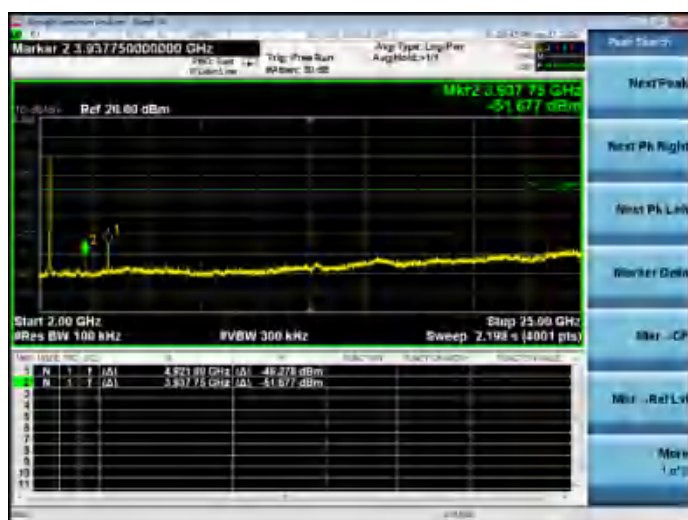
802.11ax-20 MHz(SU) HIGH CHANNEL CARRIER LEVEL



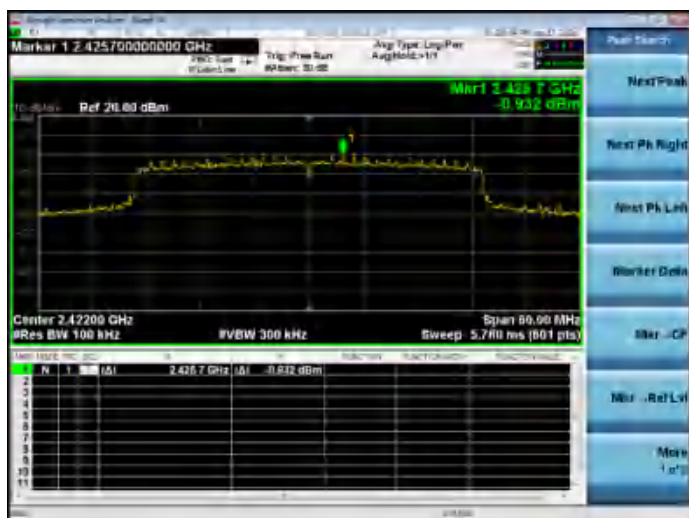
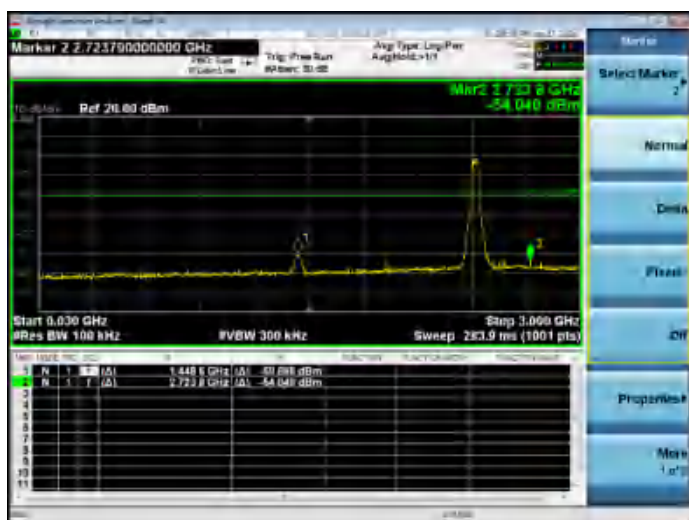
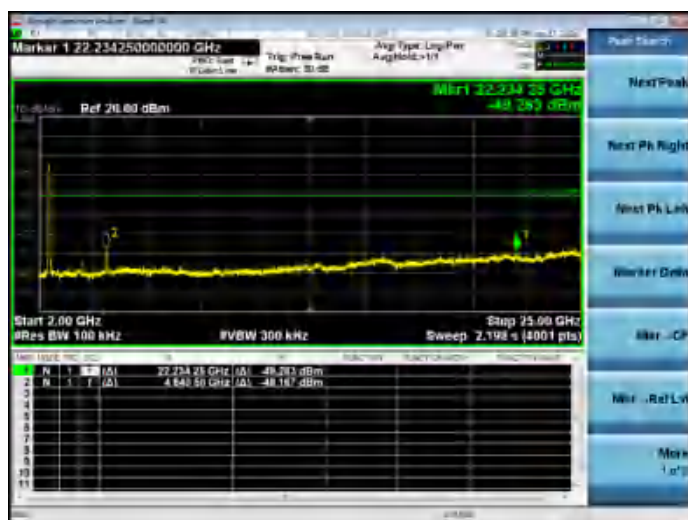
802.11ax-20 MHz(SU) HIGH CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



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



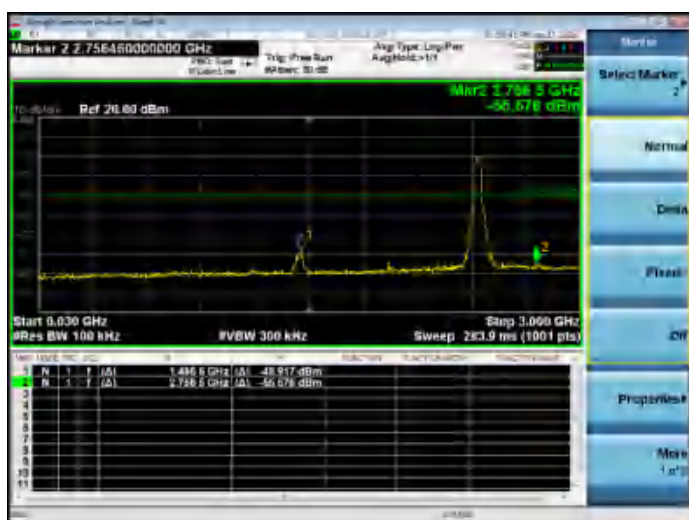
802.11ax-40 MHz(SU) LOW CHANNEL CARRIER LEVEL

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

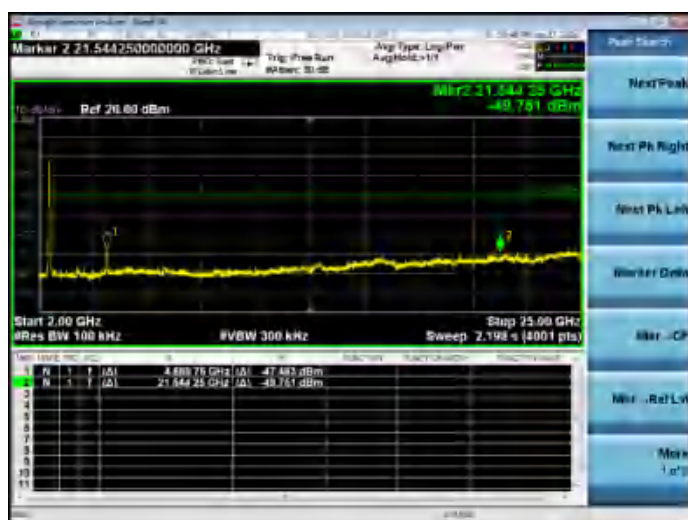
802.11ax-40 MHz(SU) MIDDLE CHANNEL CARRIER LEVEL



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



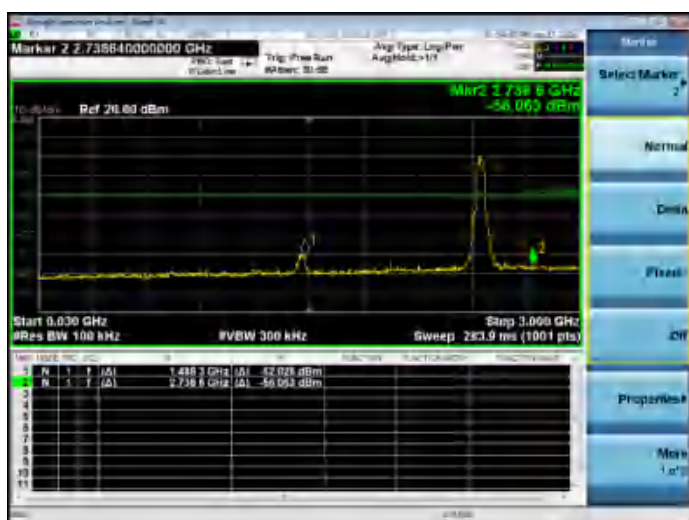
802.11ax-40 MHz(SU) MIDDLE CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



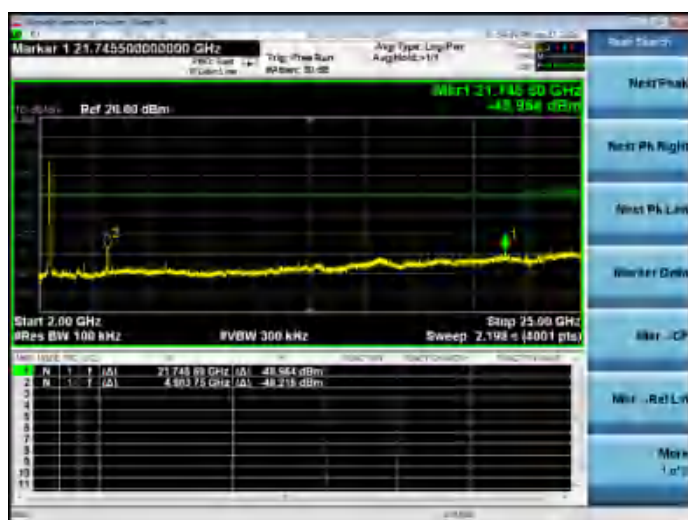
802.11ax-40 MHz(SU) HIGH CHANNEL CARRIER LEVEL



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



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



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

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	-40.81	4.02	-15.98	Pass
High Channel	-56.41	3.53	-16.47	Pass

802.11g Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-24.33	-1.36	-21.36	Pass
High Channel	-38.72	2.07	-17.93	Pass

802.11n-20 MHz Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-24.87	1.95	-18.05	Pass
High Channel	-37.42	1.11	-18.89	Pass

802.11n-40 MHz Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-29.15	-1.67	-21.67	Pass
High Channel	-27.92	-0.39	-20.39	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	-23.54	2.14	-17.86	Pass
High Channel	-33.52	2.97	-17.03	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	-25.89	-0.93	-20.93	Pass
High Channel	-28.06	-0.39	-20.39	Pass

Test Plots

802.11b LOW CHANNEL, CARRIER LEVEL



802.11b LOW CHANNEL, BAND EDGE



802.11b HIGH CHANNEL, CARRIER LEVEL



802.11b HIGH CHANNEL, BAND EDGE



802.11g LOW CHANNEL, CARRIER LEVEL



802.11g LOW CHANNEL, BAND EDGE



802.11g HIGH CHANNEL, CARRIER LEVEL



802.11g HIGH CHANNEL, BAND EDGE



802.11n-20 MHz LOW CHANNEL, CARRIER LEVEL



802.11n-20 MHz LOW CHANNEL, BAND EDGE



802.11n-20 MHz HIGH CHANNEL, CARRIER LEVEL



802.11n-20 MHz HIGH CHANNEL, BAND EDGE



802.11n-40 MHz LOW CHANNEL, CARRIER LEVEL



802.11n-40 MHz LOW CHANNEL, BAND EDGE



802.11n-40 MHz HIGH CHANNEL, CARRIER LEVEL



802.11n-40 MHz HIGH CHANNEL, BAND EDGE



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



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



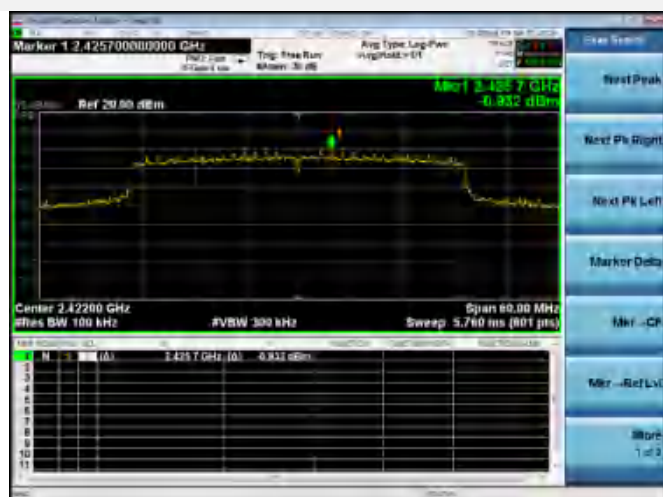
802.11ax-20 MHz(SU) HIGH CHANNEL, CARRIER LEVEL



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



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



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



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



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



A.5 Conducted Emissions

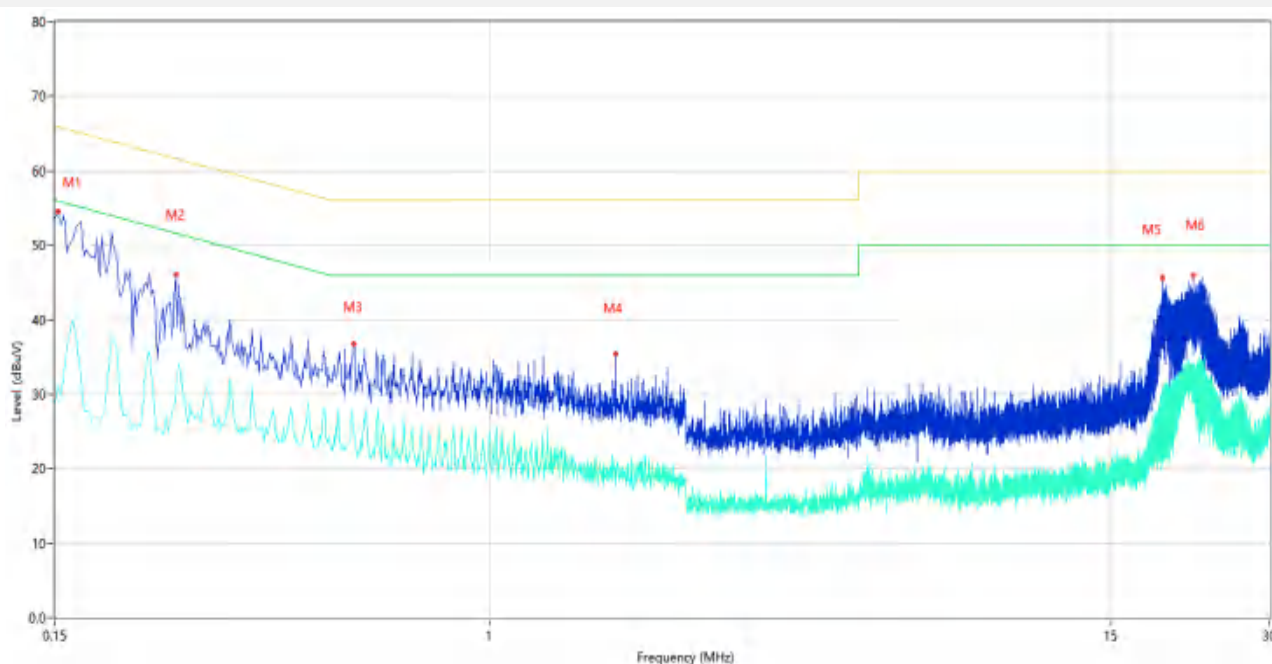
Note¹: The EUT is working in the Normal link mode. All modes have been tested and normal link mode is worst.

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

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

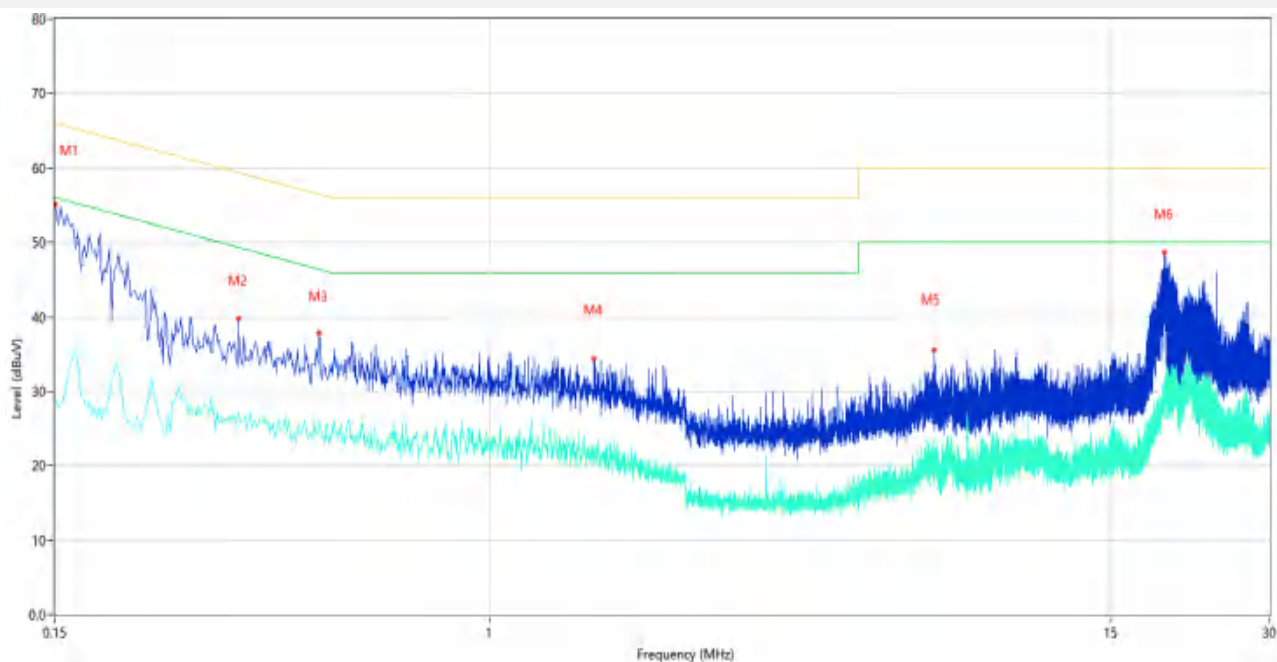
Test Data and Plots

PHASE L



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.152	54.56	10.27	65.89	11.33	Peak	L	Pass
1**	0.152	31.09	10.27	55.89	24.80	AV	L	Pass
2	0.254	46.10	10.24	61.63	15.53	Peak	L	Pass
2**	0.254	30.47	10.24	51.63	21.16	AV	L	Pass
3	0.552	36.81	10.26	56.00	19.19	Peak	L	Pass
3**	0.552	25.65	10.26	46.00	20.35	AV	L	Pass
4	1.728	35.36	10.37	56.00	20.64	Peak	L	Pass
4**	1.728	19.97	10.37	46.00	26.03	AV	L	Pass
5	18.806	45.62	13.98	60.00	14.38	Peak	L	Pass
5**	18.806	23.55	13.98	50.00	26.45	AV	L	Pass
6	21.520	45.94	14.61	60.00	14.06	Peak	L	Pass
6**	21.520	31.94	14.61	50.00	18.06	AV	L	Pass

PHASE N



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.150	55.16	10.18	66.00	10.84	Peak	N	Pass
1**	0.150	29.12	10.18	56.00	26.88	AV	N	Pass
2	0.334	39.85	10.16	59.35	19.50	Peak	N	Pass
2**	0.334	27.08	10.16	49.35	22.27	AV	N	Pass
3	0.474	37.77	10.17	56.44	18.67	Peak	N	Pass
3**	0.474	25.95	10.17	46.44	20.49	AV	N	Pass
4	1.576	34.28	10.27	56.00	21.72	Peak	N	Pass
4**	1.576	21.66	10.27	46.00	24.34	AV	N	Pass
5	6.940	35.53	11.04	60.00	24.47	Peak	N	Pass
5**	6.940	18.69	11.04	50.00	31.31	AV	N	Pass
6	19.000	48.66	14.07	60.00	11.34	Peak	N	Pass
6**	19.000	30.95	14.07	50.00	19.05	AV	N	Pass

A.6 Radiated Emission

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

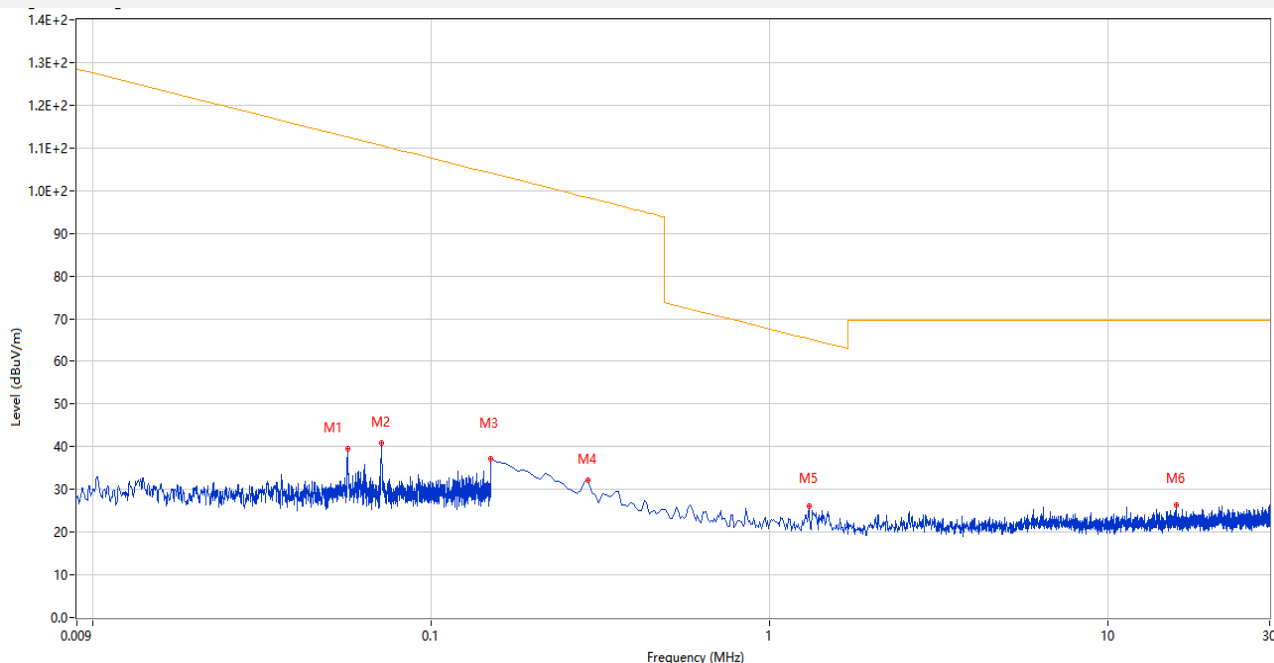
Note²: For the test data above 1 GHz, According the ANSI C63.10-2020, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

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.

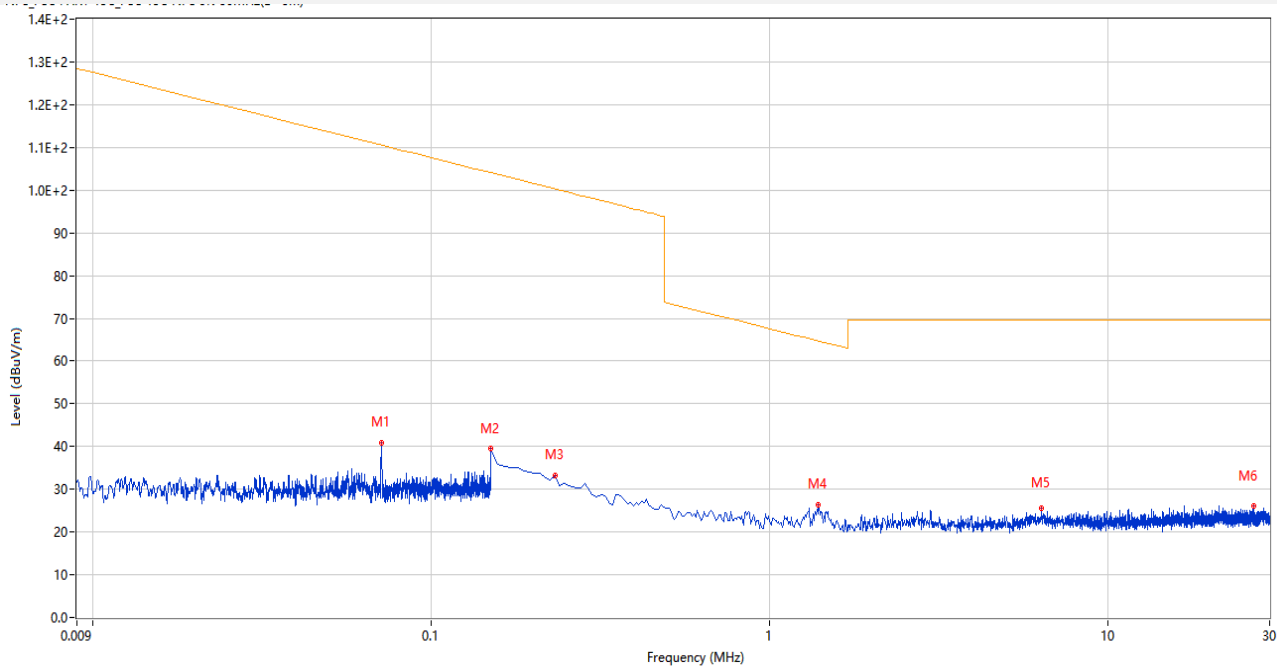
Test Data and Plots

9 KHz to 30 MHz, ANT H



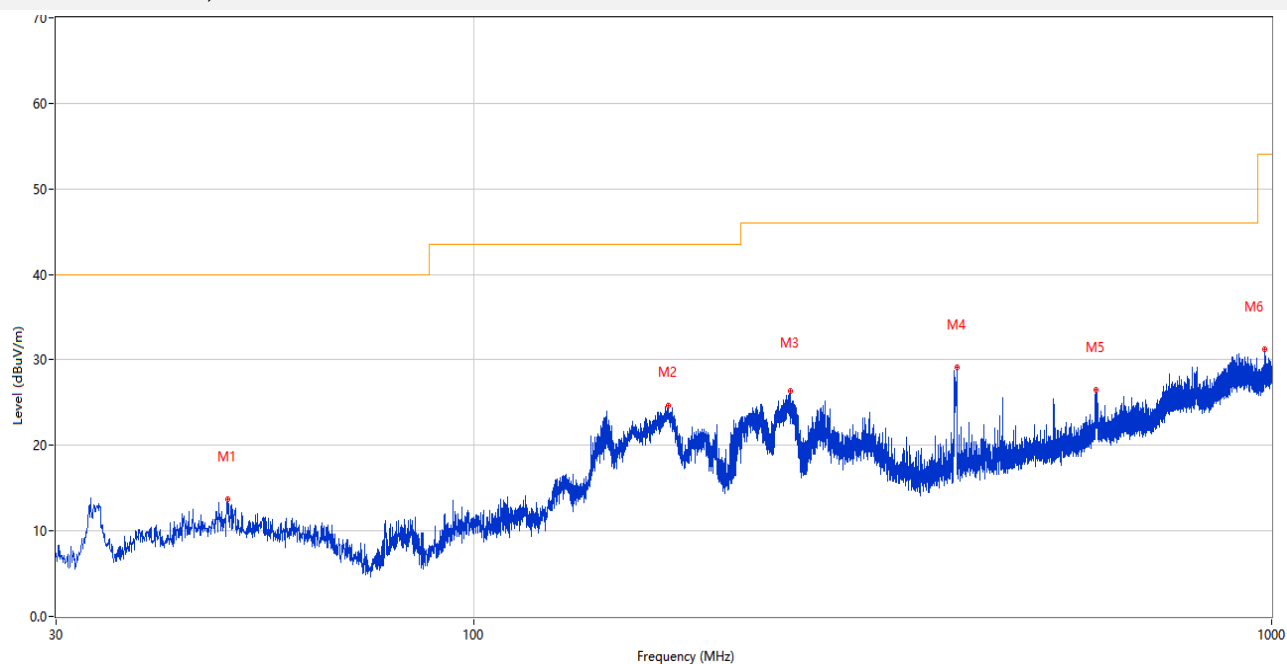
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	0.057	39.57	20.75	112.5	72.93	Peak	157.00	100	Horizontal	Pass
2	0.071	40.95	20.72	110.5	69.55	Peak	134.00	100	Horizontal	Pass
3	0.150	29.74	20.59	104.1	74.36	Peak	198.00	100	Horizontal	Pass
4	0.292	32.06	20.37	98.3	66.24	Peak	360.00	100	Horizontal	Pass
5	1.307	26.07	19.48	65.3	39.23	Peak	200.00	100	Horizontal	Pass
6	15.881	26.30	21.16	69.5	43.20	Peak	356.00	100	Horizontal	Pass

9 KHz to 30 MHz, ANT V



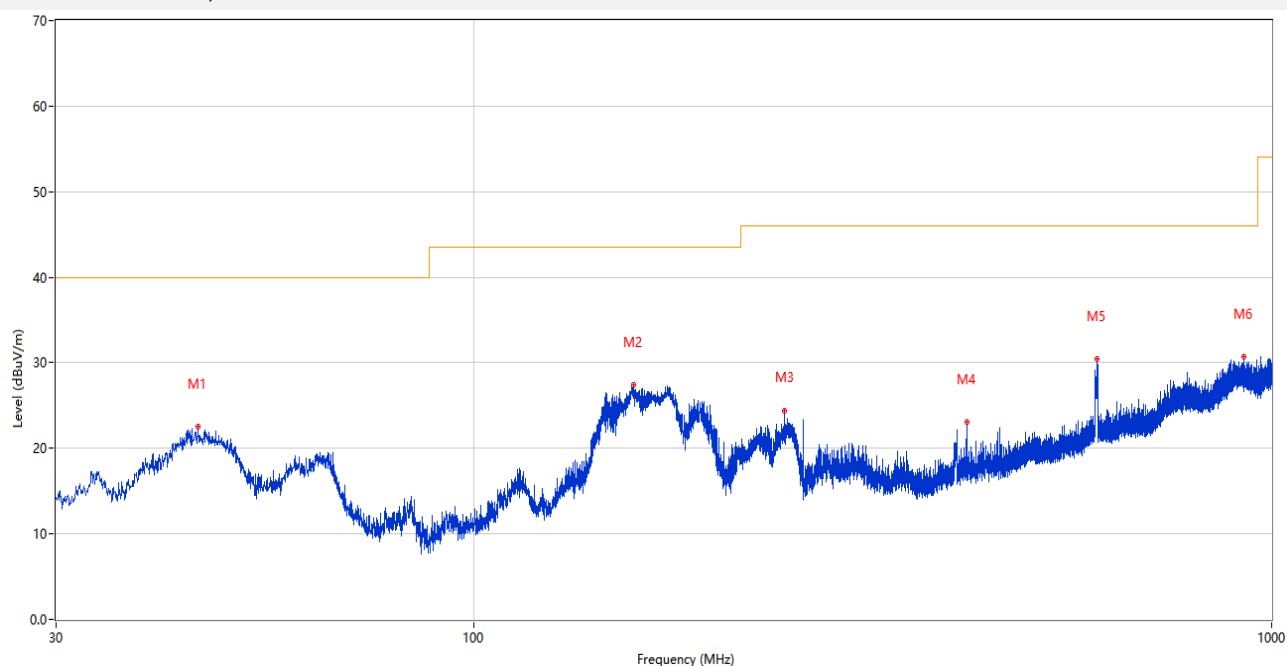
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	0.071	40.85	20.72	110.5	69.65	Peak	263.00	100	Vertical	Pass
2	0.150	31.31	20.59	104.1	72.79	Peak	281.00	100	Vertical	Pass
3	0.232	33.19	20.46	100.3	67.11	Peak	95.00	100	Vertical	Pass
4	1.396	26.40	19.42	64.7	38.30	Peak	283.00	100	Vertical	Pass
5	6.344	25.62	21.06	69.5	43.88	Peak	12.00	100	Vertical	Pass
6	26.940	25.99	21.34	69.5	43.51	Peak	248.00	100	Vertical	Pass

30 MHz to 1 GHz, ANT H



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	49.255	13.66	-25.23	40.0	26.34	Peak	20.00	200	Horizontal	Pass
2	175.258	24.67	-28.25	43.5	18.83	Peak	259.00	200	Horizontal	Pass
3	249.608	26.31	-24.19	46.0	19.69	Peak	271.00	100	Horizontal	Pass
4	403.402	29.19	-20.49	46.0	16.81	Peak	254.00	100	Horizontal	Pass
5	602.348	26.47	-15.08	46.0	19.53	Peak	107.00	100	Horizontal	Pass
6	978.854	31.28	-8.55	54.0	22.72	Peak	149.00	200	Horizontal	Pass

30 MHz to 1 GHz, ANT V



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	45.229	22.54	-25.56	40.0	17.46	Peak	228.00	100	Vertical	Pass
2	158.574	27.48	-29.05	43.5	16.02	Peak	14.00	100	Vertical	Pass
3	245.243	24.40	-24.34	46.0	21.60	Peak	0.00	100	Vertical	Pass
4	414.702	23.01	-20.03	46.0	22.99	Peak	214.00	100	Vertical	Pass
5	604.774	30.40	-15.03	46.0	15.60	Peak	334.00	100	Vertical	Pass
6	923.564	30.74	-8.61	46.0	15.26	Peak	24.00	200	Vertical	Pass

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

Note ²: 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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1271.100	44.75	74.0	29.25	Peak	266.00	100	Horizontal	Pass
1**	1271.100	35.02	54.0	18.98	AV	266.00	100	Horizontal	Pass
2	2413.300	105.59	--	--	Peak	354.00	200	Horizontal	N/A
2**	2413.300	102.73	--	--	AV	354.00	200	Horizontal	N/A
3	2984.900	54.10	74.0	19.90	Peak	275.00	200	Horizontal	Pass
3**	2984.900	44.56	54.0	9.44	AV	275.00	200	Horizontal	Pass
4	4824.250	60.92	74.0	13.08	Peak	207.00	100	Horizontal	Pass
4**	4824.250	48.11	74.0	5.89	AV	207.00	100	Horizontal	Pass
5	7235.250	55.97	74.0	18.03	Peak	22.00	100	Horizontal	Pass
5**	7235.250	46.26	74.0	7.74	AV	22.00	100	Horizontal	Pass
6	17971.124	51.87	74.0	22.13	Peak	288.00	100	Horizontal	Pass
6**	17971.124	41.59	54.0	12.41	AV	288.00	100	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1331.300	46.17	74.0	27.83	Peak	323.00	300	Vertical	Pass
1**	1331.300	37.08	54.0	16.92	AV	323.00	300	Vertical	Pass
2	2410.700	95.31	--	--	Peak	34.00	100	Vertical	N/A
2**	2410.700	92.42	--	--	AV	34.00	100	Vertical	N/A
3	2960.000	54.26	74.0	19.74	Peak	11.00	150	Vertical	Pass
3**	2960.000	45.08	54.0	8.92	AV	11.00	150	Vertical	Pass
4	4824.250	52.05	74.0	21.95	Peak	121.00	100	Vertical	Pass
4**	4824.250	46.74	54.0	7.26	AV	121.00	100	Vertical	Pass
5	7237.750	56.58	74.0	17.42	Peak	135.00	100	Vertical	Pass
5**	7237.750	45.97	54.0	8.03	AV	135.00	100	Vertical	Pass
6	17981.100	51.79	74.0	22.21	Peak	9.00	100	Vertical	Pass
6**	17981.100	42.57	54.0	11.43	AV	9.00	100	Vertical	Pass

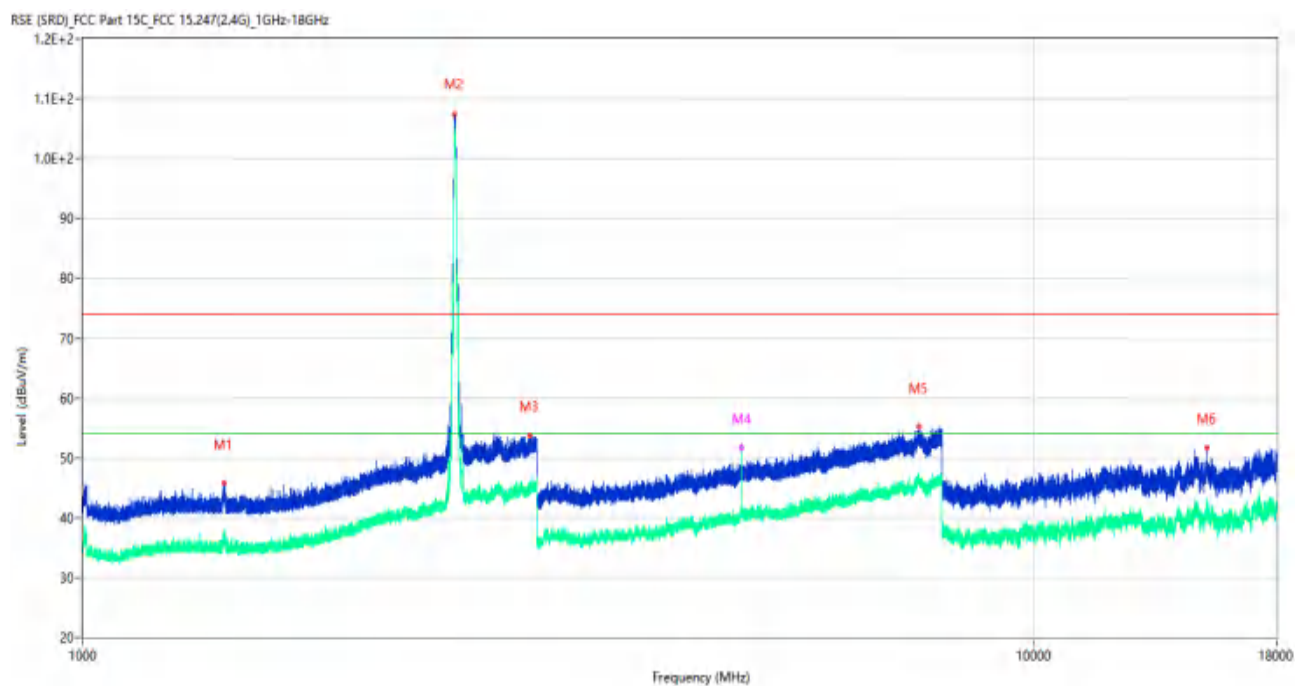
1 GHz to 18 GHz, ANT H 802.11b Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1008.500	45.16	74.0	28.84	Peak	212.00	100	Horizontal	Pass
1**	1008.500	36.87	54.0	17.13	AV	212.00	100	Horizontal	Pass
2	2438.200	106.71	--	--	Peak	351.00	150	Horizontal	N/A
2**	2438.200	103.83	--	--	AV	351.00	150	Horizontal	N/A
3	2982.100	54.45	74.0	19.55	Peak	158.00	150	Horizontal	Pass
3**	2982.100	45.34	54.0	8.66	AV	158.00	150	Horizontal	Pass
4	4874.250	53.92	74.0	20.08	Peak	210.00	100	Horizontal	Pass
4**	4874.250	48.32	54.0	5.68	AV	210.00	100	Horizontal	Pass
5	7312.250	55.97	74.0	18.03	Peak	337.00	100	Horizontal	Pass
5**	7312.250	46.26	54.0	7.74	AV	337.00	100	Horizontal	Pass
6	17981.624	51.94	74.0	22.06	Peak	247.00	300	Horizontal	Pass
6**	17981.624	42.46	54.0	11.54	AV	247.00	300	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1328.300	47.08	74.0	26.92	Peak	172.00	300	Vertical	Pass
1**	1328.300	36.73	54.0	17.27	AV	172.00	300	Vertical	Pass
2	2438.300	97.75	--	--	Peak	257.00	200	Vertical	N/A
2**	2438.300	94.82	--	--	AV	257.00	200	Vertical	N/A
3	2941.200	54.62	74.0	19.38	Peak	214.00	100	Vertical	Pass
3**	2941.200	45.11	54.0	8.89	AV	214.00	100	Vertical	Pass
4	4874.250	55.75	74.0	18.25	Peak	127.00	100	Vertical	Pass
4**	4874.250	43.27	54.0	10.73	AV	127.00	100	Vertical	Pass
5	7312.500	59.4	74.0	14.6	Peak	143.00	100	Vertical	Pass
5**	7312.500	44.01	54.0	9.99	AV	143.00	100	Vertical	Pass
6	17171.025	51.29	74.0	22.71	Peak	220.00	300	Vertical	Pass
6**	17171.025	41.81	54.0	12.19	AV	220.00	300	Vertical	Pass

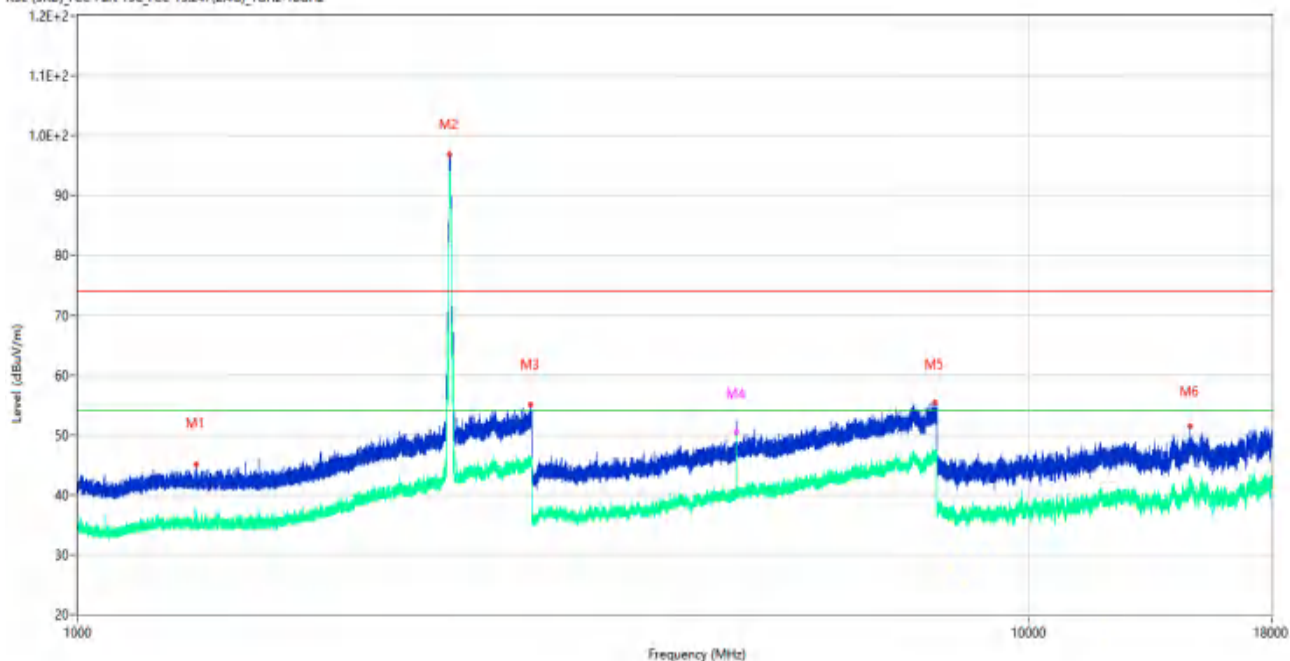
1 GHz to 18 GHz, ANT H 802.11b High Channel



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1406.000	45.78	74.0	28.22	Peak	294.00	100	Horizontal	Pass
1**	1406.000	36.51	54.0	17.49	AV	294.00	100	Horizontal	Pass
2	2460.800	107.45	--	--	Peak	354.00	200	Horizontal	N/A
2**	2460.800	104.51	--	--	AV	354.00	200	Horizontal	N/A
3	2950.900	53.64	74.0	20.36	Peak	326.00	150	Horizontal	Pass
3**	2950.900	44.57	54.0	9.43	AV	326.00	150	Horizontal	Pass
4	4924.250	52.24	74.0	21.76	Peak	199.00	100	Horizontal	Pass
4**	4924.250	50.92	54.0	3.08	AV	199.00	100	Horizontal	Pass
5	7567.000	55.19	74.0	18.81	Peak	305.00	100	Horizontal	Pass
5**	7567.000	46.08	54.0	7.92	AV	305.00	100	Horizontal	Pass
6	15209.099	51.57	74.0	22.43	Peak	360.00	100	Horizontal	Pass
6**	15209.099	42.30	54.0	11.70	AV	360.00	100	Horizontal	Pass

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

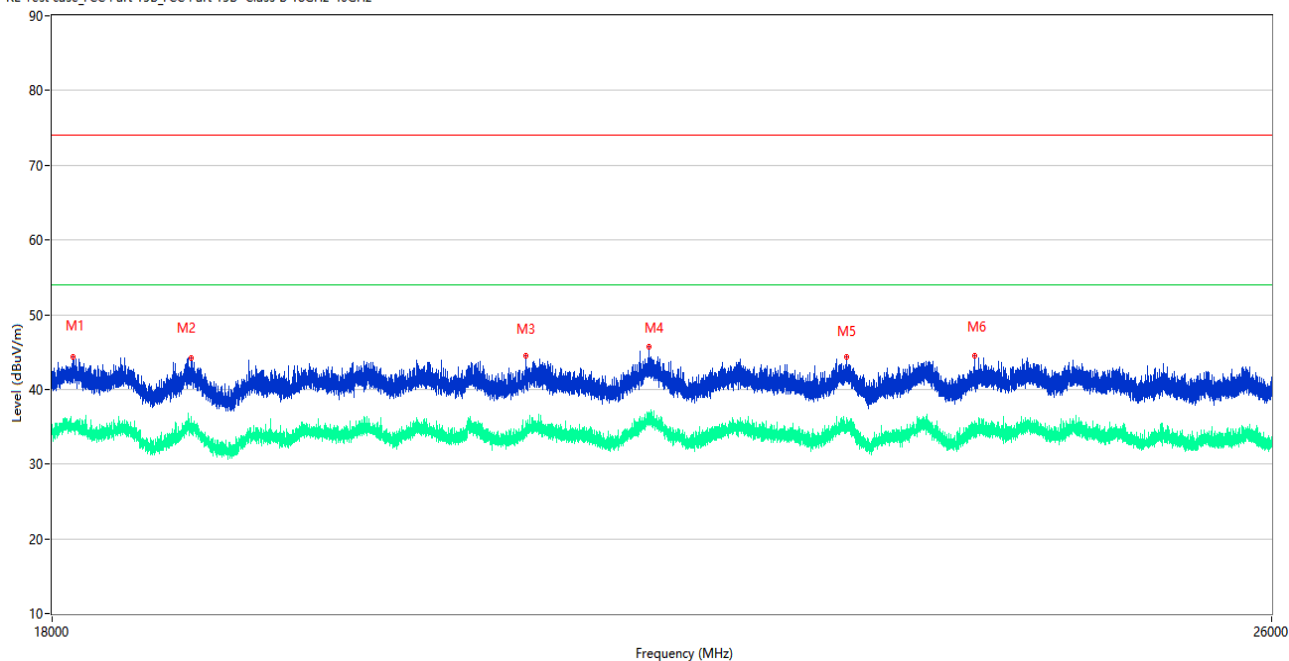
RSE (SRD) FCC Part 15C FCC 15.247(2.4G) 1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1330.500	44.98	74.0	29.02	Peak	251.00	400	Vertical	Pass
1**	1330.500	35.26	54.0	18.74	AV	251.00	400	Vertical	Pass
2	2460.800	96.85	--	--	Peak	284.00	150	Vertical	N/A
2**	2460.800	93.92	--	--	AV	284.00	150	Vertical	N/A
3	2996.800	55.07	74.0	18.93	Peak	351.00	100	Vertical	Pass
3**	2996.800	45.00	54.0	9.00	AV	351.00	100	Vertical	Pass
4	4924.250	52.23	74.0	21.77	Peak	176.00	100	Vertical	Pass
4**	4924.250	50.44	54.0	3.56	AV	176.00	100	Vertical	Pass
5	7957.500	55.35	74.0	18.65	Peak	136.00	100	Vertical	Pass
5**	7957.500	46.47	54.0	7.53	AV	136.00	100	Vertical	Pass
6	14788.050	51.50	74.0	22.50	Peak	24.00	100	Vertical	Pass
6**	14788.050	41.87	54.0	12.13	AV	24.00	100	Vertical	Pass

18 GHz to 26 GHz, ANT H 802.11b High Channel

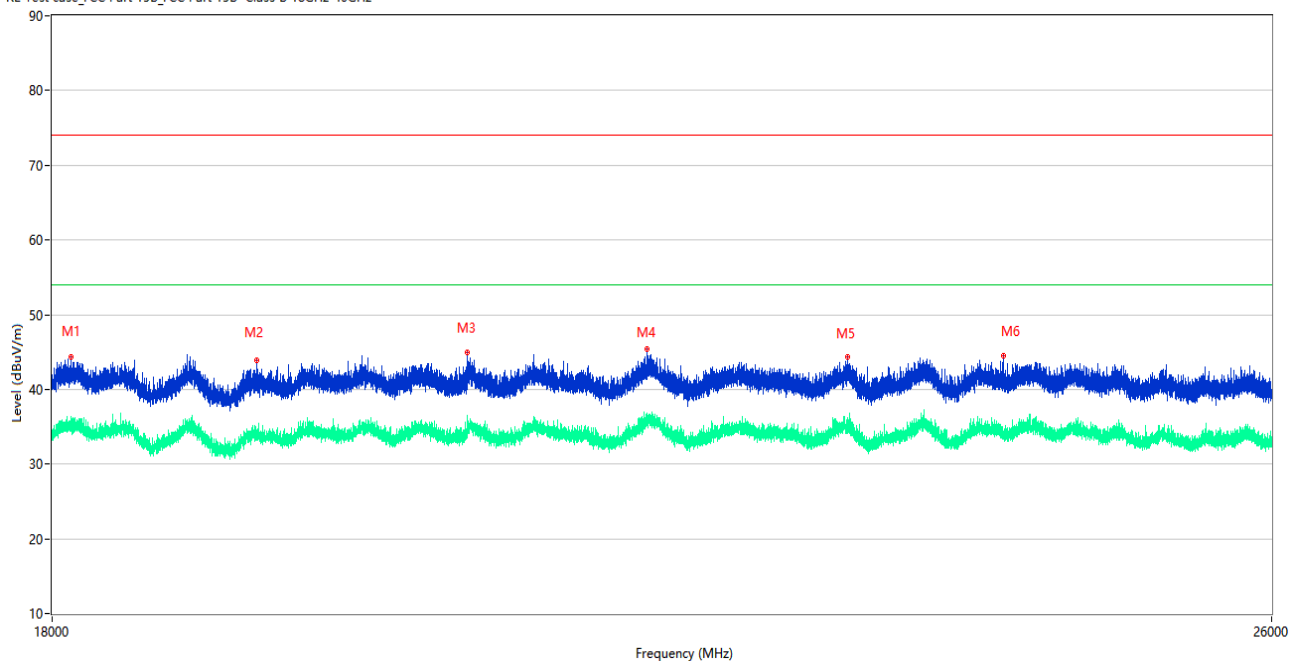
RE Test case_FCC Part 15B_FCC Part 15B Class B 18GHz-40GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	18112.801	44.37	74.0	29.63	Peak	232.00	100	Horizontal	Pass
1**	18112.801	34.66	54.0	19.34	AV	232.00	100	Horizontal	Pass
2	18771.200	44.16	74.0	29.84	Peak	249.00	100	Horizontal	Pass
2**	18771.200	35.24	54.0	18.76	AV	249.00	100	Horizontal	Pass
3	20765.999	44.55	74.0	29.45	Peak	47.00	100	Horizontal	Pass
3**	20765.999	35.46	54.0	18.54	AV	47.00	100	Horizontal	Pass
4	21548.401	45.70	74.0	28.30	Peak	303.00	200	Horizontal	Pass
4**	21548.401	36.92	54.0	17.08	AV	303.00	200	Horizontal	Pass
5	22869.199	44.34	74.0	29.66	Peak	183.00	100	Horizontal	Pass
5**	22869.199	35.26	54.0	18.74	AV	183.00	100	Horizontal	Pass
6	23773.999	44.46	74.0	29.54	Peak	130.00	100	Horizontal	Pass
6**	23773.999	35.34	54.0	18.66	AV	130.00	100	Horizontal	Pass

18 GHz to 26 GHz, ANT V 802.11b High Channel

RE Test case_FCC Part 15B_FCC Part 15B Class B 18GHz-40GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	18101.600	44.41	74.0	29.59	Peak	358.00	100	Vertical	Pass
1**	18101.600	36.04	54.0	17.96	AV	358.00	100	Vertical	Pass
2	19147.999	43.89	74.0	30.11	Peak	319.00	300	Vertical	Pass
2**	19147.999	34.17	54.0	19.83	AV	319.00	300	Vertical	Pass
3	20400.802	44.97	74.0	29.03	Peak	30.00	100	Vertical	Pass
3**	20400.802	35.86	54.0	18.14	AV	30.00	100	Vertical	Pass
4	21538.001	45.39	74.0	28.61	Peak	168.00	300	Vertical	Pass
4**	21538.001	35.44	54.0	18.56	AV	168.00	300	Vertical	Pass
5	22879.599	44.37	74.0	29.63	Peak	168.00	100	Vertical	Pass
5**	22879.599	35.28	54.0	18.72	AV	168.00	100	Vertical	Pass
6	23978.400	44.48	74.0	29.52	Peak	162.00	200	Vertical	Pass
6**	23978.400	34.48	54.0	19.52	AV	162.00	200	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	1007.800	45.96	74.0	28.04	Peak	206.00	100	Horizontal	Pass
1**	1007.800	37.63	54.0	16.37	AV	206.00	100	Horizontal	Pass
2	2413.300	108.68	--	--	Peak	357.00	200	Horizontal	N/A
2**	2413.300	101.34	--	--	AV	357.00	200	Horizontal	N/A
3	2987.900	53.90	74.0	20.10	Peak	228.00	200	Horizontal	Pass
3**	2987.900	45.24	54.0	8.76	AV	228.00	200	Horizontal	Pass
4	4823.250	54.25	74.0	19.75	Peak	254.00	100	Horizontal	Pass
4**	4823.250	47.36	54.0	6.64	AV	254.00	100	Horizontal	Pass
5	7234.000	55.72	74.0	18.28	Peak	4.00	100	Horizontal	Pass
5**	7234.000	46.24	54.0	7.76	AV	4.00	100	Horizontal	Pass
6	17769.787	51.54	74.0	22.46	Peak	59.00	400	Horizontal	Pass
6**	17769.787	42.45	54.0	11.55	AV	59.00	400	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	1406.000	44.81	74.0	29.19	Peak	184.00	100	Vertical	Pass
1**	1406.000	35.27	54.0	18.73	AV	184.00	100	Vertical	Pass
2	2410.500	99.57	--	--	Peak	117.00	100	Vertical	N/A
2**	2410.500	91.41	--	--	AV	117.00	100	Vertical	N/A
3	2901.800	55.18	74.0	18.82	Peak	161.00	150	Vertical	Pass
3**	2901.800	45.66	54.0	8.34	AV	161.00	150	Vertical	Pass
4	4823.500	55.36	74.0	18.64	Peak	176.00	100	Vertical	Pass
4**	4823.500	49.14	54.0	4.86	AV	176.00	100	Vertical	Pass
5	7236.750	53.91	74.0	20.09	Peak	136.00	100	Vertical	Pass
5**	7236.750	49.60	54.0	4.40	AV	136.00	100	Vertical	Pass
6	17675.551	51.67	74.0	22.33	Peak	126.00	200	Vertical	Pass
6**	17675.551	41.91	54.0	12.09	AV	126.00	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	1190.400	44.44	74.0	29.56	Peak	112.00	100	Horizontal	Pass
1**	1190.400	34.37	54.0	19.63	AV	112.00	100	Horizontal	Pass
2	2440.100	110.40	--	--	Peak	349.00	200	Horizontal	N/A
2**	2440.100	103.10	--	--	AV	349.00	200	Horizontal	N/A
3	2972.400	54.10	74.0	19.90	Peak	263.00	100	Horizontal	Pass
3**	2972.400	44.85	54.0	9.15	AV	263.00	100	Horizontal	Pass
4	4874.500	59.46	74.0	14.54	Peak	207.00	100	Horizontal	Pass
4**	4874.500	49.26	54.0	4.74	AV	207.00	100	Horizontal	Pass
5	7310.000	57.81	74.0	16.19	Peak	38.00	100	Horizontal	Pass
5**	7310.000	47.98	54.0	6.02	AV	38.00	100	Horizontal	Pass
6	17728.313	51.41	74.0	22.59	Peak	60.00	400	Horizontal	Pass
6**	17728.313	42.41	54.0	11.59	AV	60.00	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	1329.900	45.73	74.0	28.27	Peak	176.00	100	Vertical	Pass
1**	1329.900	36.73	54.0	17.27	AV	176.00	100	Vertical	Pass
2	2438.400	100.58	--	--	Peak	264.00	150	Vertical	N/A
2**	2438.400	93.44	--	--	AV	264.00	150	Vertical	N/A
3	2969.500	54.33	74.0	19.67	Peak	168.00	100	Vertical	Pass
3**	2969.500	45.26	54.0	8.74	AV	168.00	100	Vertical	Pass
4	4872.750	52.56	74.0	21.44	Peak	120.00	100	Vertical	Pass
4**	4872.750	49.81	54.0	4.19	AV	120.00	100	Vertical	Pass
5	7312.000	57.16	74.0	16.84	Peak	137.00	100	Vertical	Pass
5**	7312.000	48.53	54.0	5.47	AV	137.00	100	Vertical	Pass
6	17969.551	51.74	74.0	22.26	Peak	248.00	400	Vertical	Pass
6**	17969.551	41.21	54.0	12.79	AV	248.00	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	1221.900	44.58	74.0	29.42	Peak	306.00	100	Horizontal	Pass
1**	1221.900	34.69	54.0	19.31	AV	306.00	100	Horizontal	Pass
2	2464.300	111.23	--	--	Peak	359.00	150	Horizontal	N/A
2**	2464.300	103.83	--	--	AV	359.00	150	Horizontal	N/A
3	2971.100	54.51	74.0	19.49	Peak	7.00	150	Horizontal	Pass
3**	2971.100	44.91	54.0	9.09	AV	7.00	150	Horizontal	Pass
4	4923.000	63.24	74.0	10.76	Peak	359.00	100	Horizontal	Pass
4**	4923.000	49.29	54.0	4.71	AV	359.00	100	Horizontal	Pass
5	7389.750	59.33	74.0	14.67	Peak	330.00	100	Horizontal	Pass
5**	7389.750	49.49	54.0	4.51	AV	330.00	100	Horizontal	Pass
6	17835.411	51.67	74.0	22.33	Peak	2.00	100	Horizontal	Pass
6**	17835.411	41.96	54.0	12.04	AV	2.00	100	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1330.900	44.74	74.0	29.26	Peak	232.00	100	Vertical	Pass
1**	1330.900	36.34	54.0	17.66	AV	232.00	100	Vertical	Pass
2	2457.500	100.95	--	--	Peak	286.00	200	Vertical	N/A
2**	2457.500	93.21	--	--	AV	286.00	200	Vertical	N/A
3	2976.100	54.28	74.0	19.72	Peak	136.00	150	Vertical	Pass
3**	2976.100	45.18	54.0	8.82	AV	136.00	150	Vertical	Pass
4	4925.750	55.45	74.0	18.55	Peak	176.00	100	Vertical	Pass
4**	4925.750	46.85	54.0	7.15	AV	176.00	100	Vertical	Pass
5	7385.000	58.37	74.0	15.63	Peak	135.00	100	Vertical	Pass
5**	7385.000	49.66	54.0	4.34	AV	135.00	100	Vertical	Pass
6	17725.688	51.56	74.0	22.44	Peak	360.00	300	Vertical	Pass
6**	17725.688	42.16	54.0	11.84	AV	360.00	300	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1158.300	44.80	74.0	29.20	Peak	249.00	100	Horizontal	Pass
1**	1158.300	35.47	54.0	18.53	AV	249.00	100	Horizontal	Pass
2	2414.300	108.18	--	--	Peak	354.00	100	Horizontal	N/A
2**	2414.300	100.88	--	--	AV	354.00	100	Horizontal	N/A
3	2990.500	54.55	74.0	19.45	Peak	359.00	150	Horizontal	Pass
3**	2990.500	44.93	54.0	9.07	AV	359.00	150	Horizontal	Pass
4	4824.000	61.49	74.0	12.51	Peak	237.00	100	Horizontal	Pass
4**	4824.000	46.79	54.0	7.21	AV	237.00	100	Horizontal	Pass
5	7239.000	54.46	74.0	19.54	Peak	360.00	100	Horizontal	Pass
5**	7239.000	43.28	54.0	10.72	AV	360.00	100	Horizontal	Pass
6	14771.512	51.50	74.0	22.50	Peak	341.00	300	Horizontal	Pass
6**	14771.512	41.85	54.0	12.15	AV	341.00	300	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1409.600	45.16	74.0	28.84	Peak	354.00	100	Vertical	Pass
1**	1409.600	35.64	54.0	18.36	AV	354.00	100	Vertical	Pass
2	2413.900	98.96	--	--	Peak	29.00	200	Vertical	N/A
2**	2413.900	91.08	--	--	AV	29.00	200	Vertical	N/A
3	2961.500	54.60	74.0	19.40	Peak	357.00	150	Vertical	Pass
3**	2961.500	44.84	54.0	9.16	AV	357.00	150	Vertical	Pass
4	4825.250	51.49	74.0	22.51	Peak	184.00	100	Vertical	Pass
4**	4825.250	49.68	54.0	4.32	AV	184.00	100	Vertical	Pass
5	7236.500	53.43	74.0	20.57	Peak	135.00	100	Vertical	Pass
5**	7236.500	48.74	54.0	5.26	AV	135.00	100	Vertical	Pass
6	15213.825	51.97	74.0	22.03	Peak	86.00	200	Vertical	Pass
6**	15213.825	41.08	54.0	12.92	AV	86.00	200	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	1409.800	46.64	74.0	27.36	Peak	49.00	400	Horizontal	Pass
1**	1409.800	36.20	54.0	17.80	AV	49.00	400	Horizontal	Pass
2	2436.100	110.31	--	--	Peak	349.00	150	Horizontal	N/A
2**	2436.100	102.94	--	--	AV	349.00	150	Horizontal	N/A
3	2991.700	54.64	74.0	19.36	Peak	5.00	200	Horizontal	Pass
3**	2991.700	45.16	54.0	8.84	AV	5.00	200	Horizontal	Pass
4	4881.500	64.37	74.0	9.63	Peak	207.00	100	Horizontal	Pass
4**	4881.500	48.69	54.0	5.31	AV	207.00	100	Horizontal	Pass
5	7312.750	57.24	74.0	16.76	Peak	35.00	100	Horizontal	Pass
5**	7312.750	46.6	54.0	7.40	AV	35.00	100	Horizontal	Pass
6	17248.725	51.72	74.0	22.28	Peak	332.00	400	Horizontal	Pass
6**	17248.725	43.35	54.0	10.65	AV	332.00	400	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1328.300	45.84	74.0	28.16	Peak	315.00	100	Vertical	Pass
1**	1328.300	35.31	54.0	18.69	AV	315.00	100	Vertical	Pass
2	2438.900	100.76	--	--	Peak	261.00	200	Vertical	N/A
2**	2438.900	93.00	--	--	AV	261.00	200	Vertical	N/A
3	2903.400	54.24	74.0	19.76	Peak	294.00	100	Vertical	Pass
3**	2903.400	44.90	54.0	9.10	AV	294.00	100	Vertical	Pass
4	4871.500	53.06	74.0	20.94	Peak	119.00	100	Vertical	Pass
4**	4871.500	48.95	54.0	5.05	AV	119.00	100	Vertical	Pass
5	7318.000	55.8	74.0	18.2	Peak	47.00	100	Vertical	Pass
5**	7318.000	46.52	54.0	7.48	AV	47.00	100	Vertical	Pass
6	17244.262	52.01	74.0	21.99	Peak	10.00	400	Vertical	Pass
6**	17244.262	42.83	54.0	11.17	AV	10.00	400	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1222.500	44.74	74.0	29.26	Peak	260.00	100	Horizontal	Pass
1**	1222.500	35.08	54.0	18.92	AV	260.00	100	Horizontal	Pass
2	2459.900	110.58	--	--	Peak	354.00	150	Horizontal	N/A
2**	2459.900	103.00	--	--	AV	354.00	150	Horizontal	N/A
3	2964.300	53.98	74.0	20.02	Peak	336.00	100	Horizontal	Pass
3**	2964.300	44.15	54.0	9.85	AV	336.00	100	Horizontal	Pass
4	4930.750	62.92	74.0	11.08	Peak	207.00	100	Horizontal	Pass
4**	4930.750	49.17	54.0	4.83	AV	207.00	100	Horizontal	Pass
5	7387.500	61.2	74.0	12.8	Peak	2.00	100	Horizontal	Pass
5**	7387.500	49.19	54.0	4.81	AV	2.00	100	Horizontal	Pass
6	17253.974	52.25	74.0	21.75	Peak	86.00	300	Horizontal	Pass
6**	17253.974	41.77	54.0	12.23	AV	86.00	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	1222.000	44.21	74.0	29.79	Peak	112.00	100	Vertical	Pass
1**	1222.000	35.32	54.0	18.68	AV	112.00	100	Vertical	Pass
2	2458.800	100.90	--	--	Peak	282.00	150	Vertical	N/A
2**	2458.800	93.22	--	--	AV	282.00	150	Vertical	N/A
3	2959.800	54.03	74.0	19.97	Peak	80.00	200	Vertical	Pass
3**	2959.800	45.05	54.0	8.95	AV	80.00	200	Vertical	Pass
4	4924.500	55.59	74.0	18.41	Peak	175.00	100	Vertical	Pass
4**	4924.500	41.4	54.0	12.60	AV	175.00	100	Vertical	Pass
5	7388.500	60.44	74.0	13.56	Peak	134.00	100	Vertical	Pass
5**	7388.500	48.58	54.0	5.42	AV	134.00	100	Vertical	Pass
6	17745.637	51.71	74.0	22.29	Peak	184.00	400	Vertical	Pass
6**	17745.637	41.98	54.0	12.02	AV	184.00	400	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	1404.200	45.24	74.0	28.76	Peak	32.00	100	Horizontal	Pass
1**	1404.200	36.15	54.0	17.85	AV	32.00	100	Horizontal	Pass
2	2424.700	104.18	--	--	Peak	333.00	100	Horizontal	N/A
2**	2424.700	97.03	--	--	AV	333.00	100	Horizontal	N/A
3	2993.600	54.56	74.0	19.44	Peak	333.00	100	Horizontal	Pass
3**	2993.600	45.11	54.0	8.89	AV	333.00	100	Horizontal	Pass
4	4841.000	58.27	74.0	15.73	Peak	212.00	100	Horizontal	Pass
4**	4841.000	44.79	54.0	9.21	AV	212.00	100	Horizontal	Pass
5	7959.250	55.26	74.0	18.74	Peak	81.00	100	Horizontal	Pass
5**	7959.250	46.52	54.0	7.48	AV	81.00	100	Horizontal	Pass
6	17239.800	51.74	74.0	22.26	Peak	230.00	200	Horizontal	Pass
6**	17239.800	42.34	54.0	11.66	AV	230.00	200	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1668.300	45.29	74.0	28.71	Peak	139.00	100	Vertical	Pass
1**	1668.300	37.31	54.0	16.69	AV	139.00	100	Vertical	Pass
2	2413.800	93.35	--	--	Peak	22.00	150	Vertical	N/A
2**	2413.800	85.17	--	--	AV	22.00	150	Vertical	N/A
3	2958.800	54.64	74.0	19.36	Peak	343.00	100	Vertical	Pass
3**	2958.800	44.50	54.0	9.50	AV	343.00	100	Vertical	Pass
4	4846.500	48.72	74.0	25.28	Peak	185.00	100	Vertical	Pass
4**	4846.500	45.49	54.0	8.51	AV	185.00	100	Vertical	Pass
5	7635.250	55.70	74.0	18.30	Peak	228.00	400	Vertical	Pass
5**	7635.250	45.62	54.0	8.38	AV	228.00	400	Vertical	Pass
6	17718.338	52.04	74.0	21.96	Peak	117.00	100	Vertical	Pass
6**	17718.338	42.15	54.0	11.85	AV	117.00	100	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2443.800	107.10	--	--	Peak	343.00	150	Horizontal	N/A
1**	2443.800	98.30	--	--	AV	343.00	150	Horizontal	N/A
2	3899.500	50.03	74.0	23.97	Peak	333.00	100	Horizontal	Pass
2**	3899.500	43.09	54.0	10.91	AV	333.00	100	Horizontal	Pass
3	4876.250	58.61	74.0	15.39	Peak	210.00	100	Horizontal	Pass
3**	4876.250	46.14	54.0	7.86	AV	210.00	100	Horizontal	Pass
4	5849.000	48.90	74.0	25.10	Peak	259.00	100	Horizontal	Pass
4**	5849.000	46.14	54.0	7.86	AV	259.00	100	Horizontal	Pass
5	7325.250	55.38	74.0	18.62	Peak	0.00	100	Horizontal	Pass
5**	7325.250	44.36	54.0	9.64	AV	0.00	100	Horizontal	Pass
6	17739.338	51.75	74.0	22.25	Peak	350.00	300	Horizontal	Pass
6**	17739.338	41.67	54.0	12.33	AV	350.00	300	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1606.700	45.78	74.0	28.22	Peak	359.00	300	Vertical	Pass
1**	1606.700	36.46	54.0	17.54	AV	359.00	300	Vertical	Pass
2	2435.600	97.18	--	--	Peak	258.00	150	Vertical	N/A
2**	2435.600	88.57	--	--	AV	258.00	150	Vertical	N/A
3	2977.000	54.00	74.0	20.00	Peak	332.00	150	Vertical	Pass
3**	2977.000	44.86	54.0	9.14	AV	332.00	150	Vertical	Pass
4	4882.000	50.97	74.0	23.03	Peak	120.00	100	Vertical	Pass
4**	4882.000	47.40	54.0	6.60	AV	120.00	100	Vertical	Pass
5	7321.250	54.00	74.0	20.00	Peak	136.00	100	Vertical	Pass
5**	7321.250	47.94	54.0	6.06	AV	136.00	100	Vertical	Pass
6	17259.749	51.63	74.0	22.37	Peak	98.00	400	Vertical	Pass
6**	17259.749	42.40	54.0	11.60	AV	98.00	400	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	2456.600	107.01	--	--	Peak	353.00	200	Horizontal	N/A
1**	2456.600	98.47	--	--	AV	353.00	200	Horizontal	N/A
2	3923.000	51.24	74.0	22.76	Peak	8.00	100	Horizontal	Pass
2**	3923.000	41.30	54.0	12.70	AV	8.00	100	Horizontal	Pass
3	4903.250	58.55	74.0	15.45	Peak	243.00	100	Horizontal	Pass
3**	4903.250	46.54	54.0	7.46	AV	243.00	100	Horizontal	Pass
4	5885.250	54.94	74.0	19.06	Peak	350.00	100	Horizontal	Pass
4**	5885.250	46.97	54.0	7.03	AV	350.00	100	Horizontal	Pass
5	7358.750	55.57	74.0	18.43	Peak	226.00	100	Horizontal	Pass
5**	7358.750	47.16	54.0	6.84	AV	226.00	100	Horizontal	Pass
6	17851.425	51.34	74.0	22.66	Peak	160.00	300	Horizontal	Pass
6**	17851.425	41.97	54.0	12.03	AV	160.00	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	1696.300	45.50	74.0	28.50	Peak	7.00	100	Vertical	Pass
1**	1696.300	35.89	54.0	18.11	AV	7.00	100	Vertical	Pass
2	2450.000	96.41	--	--	Peak	296.00	100	Vertical	N/A
2**	2450.000	88.53	--	--	AV	296.00	100	Vertical	N/A
3	2986.300	54.70	74.0	19.30	Peak	91.00	200	Vertical	Pass
3**	2986.300	45.11	54.0	8.89	AV	91.00	200	Vertical	Pass
4	4903.000	53.13	74.0	20.87	Peak	119.00	100	Vertical	Pass
4**	4903.000	49.75	54.0	4.25	AV	119.00	100	Vertical	Pass
5	7351.250	54.09	74.0	19.91	Peak	136.00	100	Vertical	Pass
5**	7351.250	46.94	54.0	7.06	AV	136.00	100	Vertical	Pass
6	17737.501	51.65	74.0	22.35	Peak	3.00	100	Vertical	Pass
6**	17737.501	41.81	54.0	12.19	AV	3.00	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	2414.000	109.45	--	--	Peak	340.00	200	Horizontal	N/A
1**	2414.000	99.95	--	--	AV	340.00	200	Horizontal	N/A
2	3859.000	51.58	74.0	22.42	Peak	271.00	100	Horizontal	Pass
2**	3859.000	40.93	54.0	13.07	AV	271.00	100	Horizontal	Pass
3	4829.750	60.43	74.0	13.57	Peak	207.00	100	Horizontal	Pass
3**	4829.750	46.28	54.0	7.72	AV	207.00	100	Horizontal	Pass
4	5789.750	48.40	74.0	25.60	Peak	328.00	100	Horizontal	Pass
4**	5789.750	44.63	54.0	9.37	AV	328.00	100	Horizontal	Pass
5	7235.500	53.65	74.0	20.35	Peak	10.00	100	Horizontal	Pass
5**	7235.500	48.88	54.0	5.12	AV	10.00	100	Horizontal	Pass
6	17251.875	51.70	74.0	22.30	Peak	262.00	300	Horizontal	Pass
6**	17251.875	42.72	54.0	11.28	AV	262.00	300	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	1664.100	45.03	74.0	28.97	Peak	227.00	400	Vertical	Pass
1**	1664.100	35.68	54.0	18.32	AV	227.00	400	Vertical	Pass
2	2406.200	98.92	--	--	Peak	25.00	100	Vertical	N/A
2**	2406.200	89.80	--	--	AV	25.00	100	Vertical	N/A
3	2974.300	54.70	74.0	19.30	Peak	143.00	150	Vertical	Pass
3**	2974.300	45.29	54.0	8.71	AV	143.00	150	Vertical	Pass
4	4822.500	51.63	74.0	22.37	Peak	174.00	100	Vertical	Pass
4**	4822.500	47.13	54.0	6.87	AV	174.00	100	Vertical	Pass
5	7240.500	52.70	74.0	21.30	Peak	141.00	100	Vertical	Pass
5**	7240.500	47.91	54.0	6.09	AV	141.00	100	Vertical	Pass
6	17797.614	51.94	74.0	22.06	Peak	173.00	100	Vertical	Pass
6**	17797.614	41.48	54.0	12.52	AV	173.00	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	2440.100	110.28	--	--	Peak	354.00	100	Horizontal	N/A
1**	2440.100	101.69	--	--	AV	354.00	100	Horizontal	N/A
2	3898.250	49.77	74.0	24.23	Peak	346.00	100	Horizontal	Pass
2**	3898.250	37.02	54.0	16.98	AV	346.00	100	Horizontal	Pass
3	4873.000	61.83	74.0	12.17	Peak	289.00	100	Horizontal	Pass
3**	4873.000	48.12	54.0	5.88	AV	289.00	100	Horizontal	Pass
4	5849.250	48.31	74.0	25.69	Peak	338.00	100	Horizontal	Pass
4**	5849.250	47.59	54.0	6.41	AV	338.00	100	Horizontal	Pass
5	7313.750	57.52	74.0	16.48	Peak	29.00	100	Horizontal	Pass
5**	7313.750	46.17	54.0	7.83	AV	29.00	100	Horizontal	Pass
6	17749.574	51.63	74.0	22.37	Peak	300.00	300	Horizontal	Pass
6**	17749.574	41.90	54.0	12.10	AV	300.00	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	1417.100	45.56	74.0	28.44	Peak	101.00	200	Vertical	Pass
1**	1417.100	35.24	54.0	18.76	AV	101.00	200	Vertical	Pass
2	2440.900	99.96	--	--	Peak	263.00	100	Vertical	N/A
2**	2440.900	90.99	--	--	AV	263.00	100	Vertical	N/A
3	2962.100	54.70	74.0	19.30	Peak	0.00	100	Vertical	Pass
3**	2962.100	44.60	54.0	9.40	AV	0.00	100	Vertical	Pass
4	4877.000	53.83	74.0	20.17	Peak	176.00	100	Vertical	Pass
4**	4877.000	48.71	54.0	5.29	AV	176.00	100	Vertical	Pass
5	7314.500	57.84	74.0	16.16	Peak	127.00	100	Vertical	Pass
5**	7314.500	46.63	54.0	7.37	AV	127.00	100	Vertical	Pass
6	17746.950	51.01	74.0	22.99	Peak	126.00	200	Vertical	Pass
6**	17746.950	42.76	54.0	11.24	AV	126.00	200	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	2465.100	111.57	--	--	Peak	354.00	200	Horizontal	N/A
1**	2465.100	101.95	--	--	AV	354.00	200	Horizontal	N/A
2	3939.250	49.06	74.0	24.94	Peak	20.00	100	Horizontal	Pass
2**	3939.250	38.55	54.0	15.45	AV	20.00	100	Horizontal	Pass
3	4928.000	62.73	74.0	11.27	Peak	1.00	100	Horizontal	Pass
3**	4928.000	48.83	54.0	5.17	AV	1.00	100	Horizontal	Pass
4	5909.250	49.13	74.0	24.87	Peak	2.00	100	Horizontal	Pass
4**	5909.250	46.47	54.0	7.53	AV	2.00	100	Horizontal	Pass
5	7386.250	61.09	74.0	12.91	Peak	359.00	100	Horizontal	Pass
5**	7386.250	48.95	54.0	5.05	AV	359.00	100	Horizontal	Pass
6	17726.474	51.70	74.0	22.30	Peak	201.00	200	Horizontal	Pass
6**	17726.474	43.09	54.0	10.91	AV	201.00	200	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	1429.900	44.46	74.0	29.54	Peak	197.00	100	Vertical	Pass
1**	1429.900	35.73	54.0	18.27	AV	197.00	100	Vertical	Pass
2	2456.800	--	--	-25.06	Peak	294.00	150	Vertical	N/A
2**	2456.800	--	--	-35.66	AV	294.00	150	Vertical	N/A
3	2992.300	54.22	74.0	19.78	Peak	358.00	150	Vertical	Pass
3**	2992.300	45.78	54.0	8.22	AV	358.00	150	Vertical	Pass
4	4926.500	55.83	74.0	18.17	Peak	174.00	100	Vertical	Pass
4**	4926.500	42.85	54.0	11.15	AV	174.00	100	Vertical	Pass
5	7384.000	57.58	74.0	16.42	Peak	86.00	100	Vertical	Pass
5**	7384.000	48.78	54.0	5.22	AV	86.00	100	Vertical	Pass
6	17243.474	52.04	74.0	21.96	Peak	236.00	200	Vertical	Pass
6**	17243.474	42.29	54.0	11.71	AV	236.00	200	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	2423.200	107.07	--	--	Peak	343.00	150	Horizontal	N/A
1**	2423.200	97.43	--	--	AV	343.00	150	Horizontal	N/A
2	3875.000	50.99	74.0	23.01	Peak	54.00	100	Horizontal	Pass
2**	3875.000	44.83	54.0	9.17	AV	54.00	100	Horizontal	Pass
3	4842.750	58.57	74.0	15.43	Peak	238.00	100	Horizontal	Pass
3**	4842.750	47.49	54.0	6.51	AV	238.00	100	Horizontal	Pass
4	5813.250	57.57	74.0	16.43	Peak	10.00	100	Horizontal	Pass
4**	5813.250	47.22	54.0	6.78	AV	10.00	100	Horizontal	Pass
5	7272.000	53.58	74.0	20.42	Peak	4.00	100	Horizontal	Pass
5**	7272.000	48.97	54.0	5.03	AV	4.00	100	Horizontal	Pass
6	17767.688	52.09	74.0	21.91	Peak	274.00	300	Horizontal	Pass
6**	17767.688	42.30	54.0	11.70	AV	274.00	300	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	1386.400	45.20	74.0	28.80	Peak	1.00	300	Vertical	Pass
1**	1386.400	35.02	54.0	18.98	AV	1.00	300	Vertical	Pass
2	2428.300	96.30	--	--	Peak	294.00	150	Vertical	N/A
2**	2428.300	86.59	--	--	AV	294.00	150	Vertical	N/A
3	2982.700	54.44	74.0	19.56	Peak	251.00	150	Vertical	Pass
3**	2982.700	46.13	54.0	7.87	AV	251.00	150	Vertical	Pass
4	4857.250	48.58	74.0	25.42	Peak	27.00	100	Vertical	Pass
4**	4857.250	45.82	54.0	8.18	AV	27.00	100	Vertical	Pass
5	7978.750	56.11	74.0	17.89	Peak	352.00	200	Vertical	Pass
5**	7978.750	45.94	54.0	8.06	AV	352.00	200	Vertical	Pass
6	17233.500	51.61	74.0	22.39	Peak	41.00	300	Vertical	Pass
6**	17233.500	43.10	54.0	10.90	AV	41.00	300	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2454.200	108.15	--	--	Peak	351.00	100	Horizontal	N/A
1**	2454.200	97.43	--	--	AV	351.00	100	Horizontal	N/A
2	3899.000	53.89	74.0	20.11	Peak	21.00	100	Horizontal	Pass
2**	3899.000	44.56	54.0	9.44	AV	21.00	100	Horizontal	Pass
3	4873.000	60.64	74.0	13.36	Peak	238.00	100	Horizontal	Pass
3**	4873.000	49.13	54.0	4.87	AV	238.00	100	Horizontal	Pass
4	5849.000	51.32	74.0	22.68	Peak	279.00	100	Horizontal	Pass
4**	5849.000	46.82	54.0	7.18	AV	279.00	100	Horizontal	Pass
5	7321.250	54.77	74.0	19.23	Peak	358.00	100	Horizontal	Pass
5**	7321.250	48.36	54.0	5.64	AV	358.00	100	Horizontal	Pass
6	17972.699	51.61	74.0	22.39	Peak	105.00	400	Horizontal	Pass
6**	17972.699	41.82	54.0	12.18	AV	105.00	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	1663.400	44.98	74.0	29.02	Peak	251.00	300	Vertical	Pass
1**	1663.400	35.51	54.0	18.49	AV	251.00	300	Vertical	Pass
2	2438.700	96.62	--	--	Peak	262.00	200	Vertical	N/A
2**	2438.700	88.23	--	--	AV	262.00	200	Vertical	N/A
3	2981.600	54.35	74.0	19.65	Peak	134.00	200	Vertical	Pass
3**	2981.600	45.67	54.0	8.33	AV	134.00	200	Vertical	Pass
4	4872.750	50.61	74.0	23.39	Peak	93.00	100	Vertical	Pass
4**	4872.750	48.05	54.0	5.95	AV	93.00	100	Vertical	Pass
5	7315.000	54.16	74.0	19.84	Peak	126.00	100	Vertical	Pass
5**	7315.000	47.34	54.0	6.66	AV	126.00	100	Vertical	Pass
6	17234.813	51.34	74.0	22.66	Peak	201.00	200	Vertical	Pass
6**	17234.813	42.86	54.0	11.14	AV	201.00	200	Vertical	Pass

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

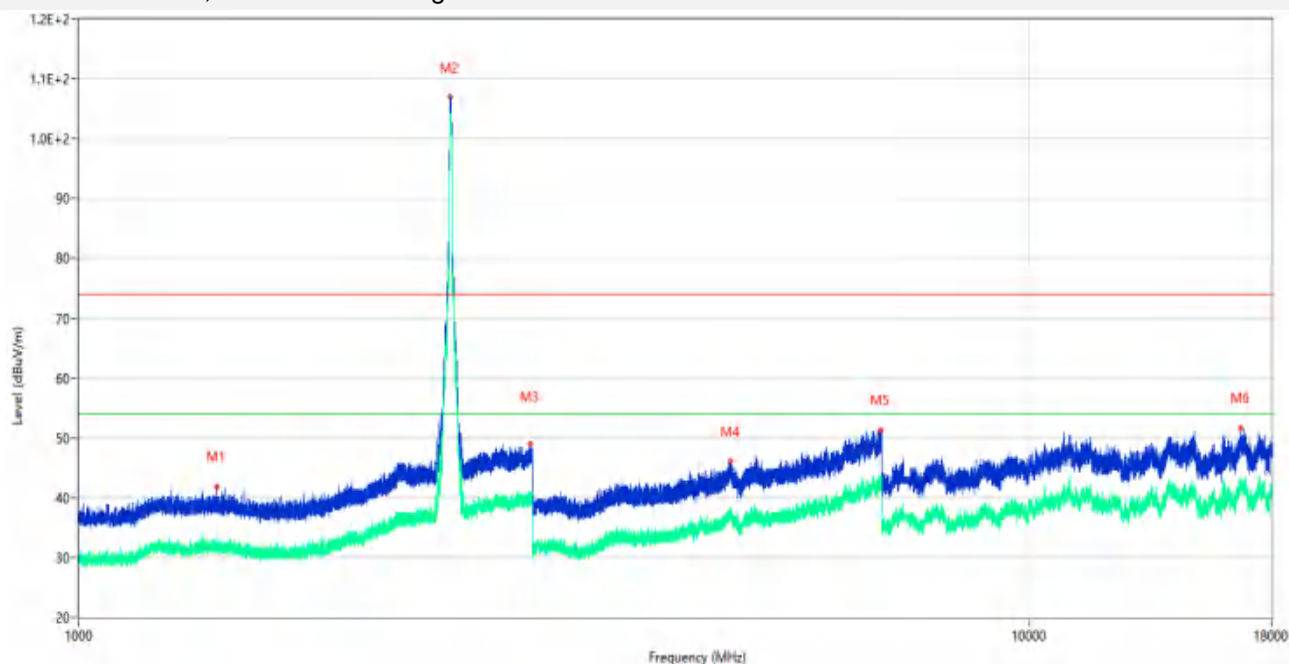
No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2461.000	108.83	--	--	Peak	352.00	200	Horizontal	N/A
1**	2461.000	99.13	--	--	AV	352.00	200	Horizontal	N/A
2	3922.750	51.01	74.0	22.99	Peak	360.00	100	Horizontal	Pass
2**	3922.750	37.09	54.0	16.91	AV	360.00	100	Horizontal	Pass
3	4905.500	59.94	74.0	14.06	Peak	297.00	100	Horizontal	Pass
3**	4905.500	46.93	54.0	7.07	AV	297.00	100	Horizontal	Pass
4	5885.250	56.16	74.0	17.84	Peak	359.00	100	Horizontal	Pass
4**	5885.250	44.66	54.0	9.34	AV	359.00	100	Horizontal	Pass
5	7354.750	58.15	74.0	15.85	Peak	2.00	100	Horizontal	Pass
5**	7354.750	46.67	54.0	7.33	AV	2.00	100	Horizontal	Pass
6	17735.399	51.52	74.0	22.48	Peak	67.00	100	Horizontal	Pass
6**	17735.399	42.50	54.0	11.50	AV	67.00	100	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	1566.400	44.86	74.0	29.14	Peak	28.00	300	Vertical	Pass
1**	1566.400	34.55	54.0	19.45	AV	28.00	300	Vertical	Pass
2	2462.500	97.73	--	--	Peak	254.00	150	Vertical	N/A
2**	2462.500	85.95	--	--	AV	254.00	150	Vertical	N/A
3	2968.800	53.88	74.0	20.12	Peak	358.00	150	Vertical	Pass
3**	2968.800	44.79	54.0	9.21	AV	358.00	150	Vertical	Pass
4	4901.750	51.24	74.0	22.76	Peak	178.00	100	Vertical	Pass
4**	4901.750	48.28	54.0	5.72	AV	178.00	100	Vertical	Pass
5	7349.750	54.93	74.0	19.07	Peak	136.00	100	Vertical	Pass
5**	7349.750	47.83	54.0	6.17	AV	136.00	100	Vertical	Pass
6	17261.851	51.69	74.0	22.31	Peak	332.00	300	Vertical	Pass
6**	17261.851	43.22	54.0	10.78	AV	332.00	300	Vertical	Pass

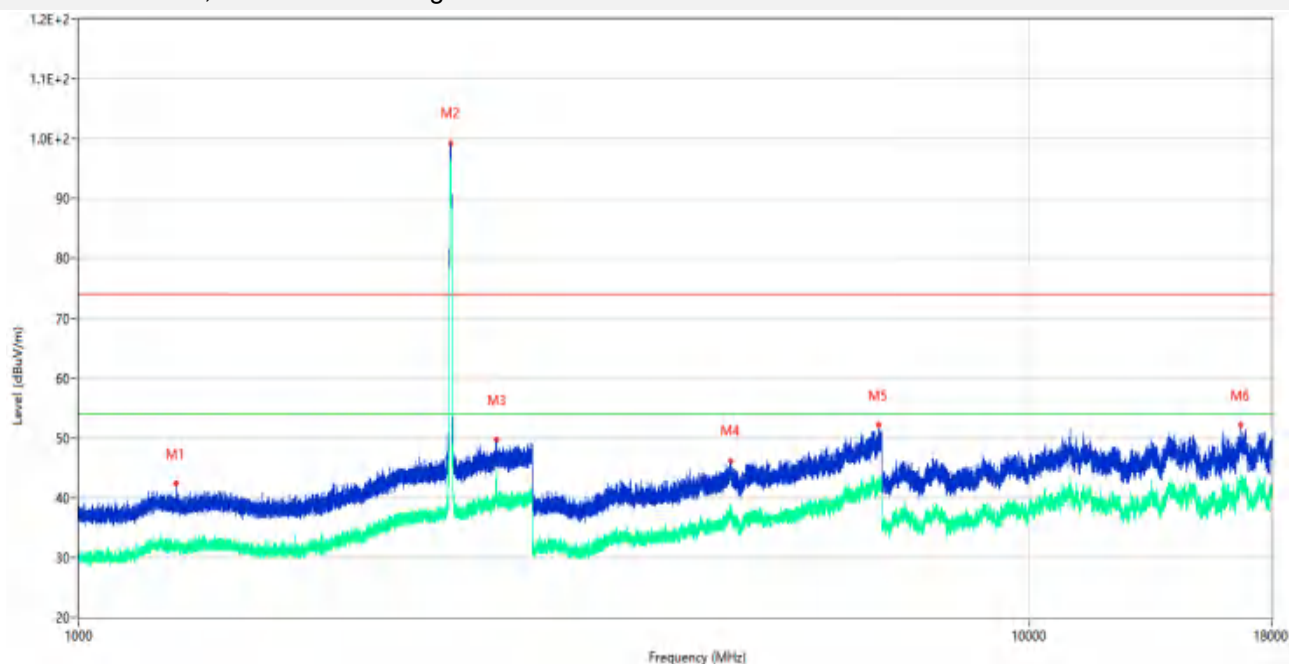
Worse Case

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



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1397.100	41.93	-17.63	74.0	32.07	Peak	184.00	100	Horizontal	Pass
1**	1397.100	31.43	-17.63	54.0	22.57	AV	184.00	100	Horizontal	Pass
2	2460.300	106.99	-13.81	--	--	Peak	250.00	200	Horizontal	N/A
2**	2460.300	104.20	-13.81	--	--	AV	250.00	200	Horizontal	N/A
3	2984.400	49.01	-10.97	74.0	24.99	Peak	86.00	100	Horizontal	Pass
3**	2984.400	40.72	-10.97	54.0	13.28	AV	86.00	100	Horizontal	Pass
4	4858.200	46.11	-6.65	74.0	27.89	Peak	327.00	200	Horizontal	Pass
4**	4858.200	36.93	-6.65	54.0	17.07	AV	327.00	200	Horizontal	Pass
5	6985.400	51.31	-1.55	74.0	22.69	Peak	189.00	100	Horizontal	Pass
5**	6985.400	42.21	-1.55	54.0	11.79	AV	189.00	100	Horizontal	Pass
6	16707.713	51.70	6.82	74.0	22.30	Peak	0.00	100	Horizontal	Pass
6**	16707.713	43.00	6.82	54.0	11.00	AV	0.00	100	Horizontal	Pass

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



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1265.100	42.35	-17.55	74.0	31.65	Peak	262.00	300	Vertical	Pass
1**	1265.100	32.89	-17.55	54.0	21.11	AV	262.00	300	Vertical	Pass
2	2463.200	99.29	-13.82	--	--	Peak	142.00	100	Vertical	N/A
2**	2463.200	96.38	-13.82	--	--	AV	142.00	100	Vertical	N/A
3	2750.500	49.76	-11.75	74.0	24.24	Peak	162.00	100	Vertical	Pass
3**	2750.500	42.98	-11.75	54.0	11.02	AV	162.00	100	Vertical	Pass
4	4854.600	46.23	-6.33	74.0	27.77	Peak	94.00	400	Vertical	Pass
4**	4854.600	37.63	-6.33	54.0	16.37	AV	94.00	400	Vertical	Pass
5	6947.600	52.11	-1.35	74.0	21.89	Peak	135.00	100	Vertical	Pass
5**	6947.600	42.21	-1.35	54.0	11.79	AV	135.00	100	Vertical	Pass
6	16716.113	52.12	6.89	74.0	21.88	Peak	99.00	100	Vertical	Pass
6**	16716.113	43.85	6.89	54.0	10.15	AV	99.00	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.

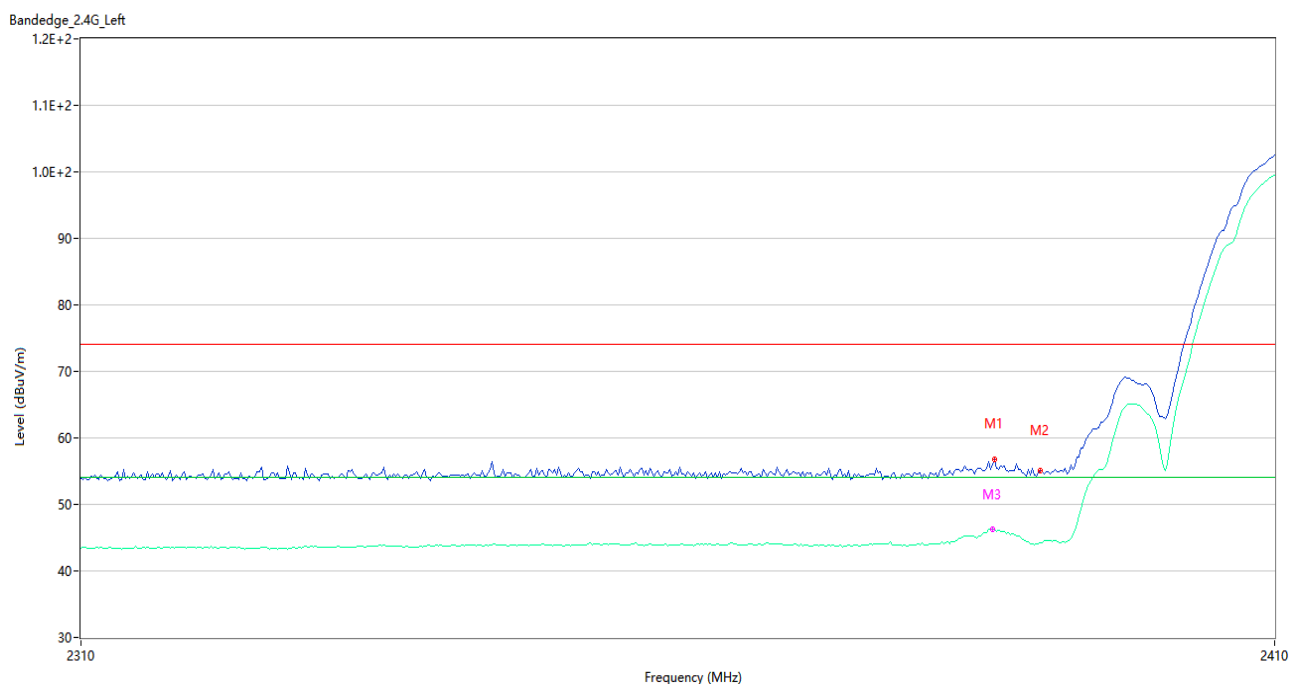
Note ³: According the ANSI C63.10-2020, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

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

Note ⁵: Both horizontal and vertical directions were pre tested, only the worst configuration has been reported in this report.

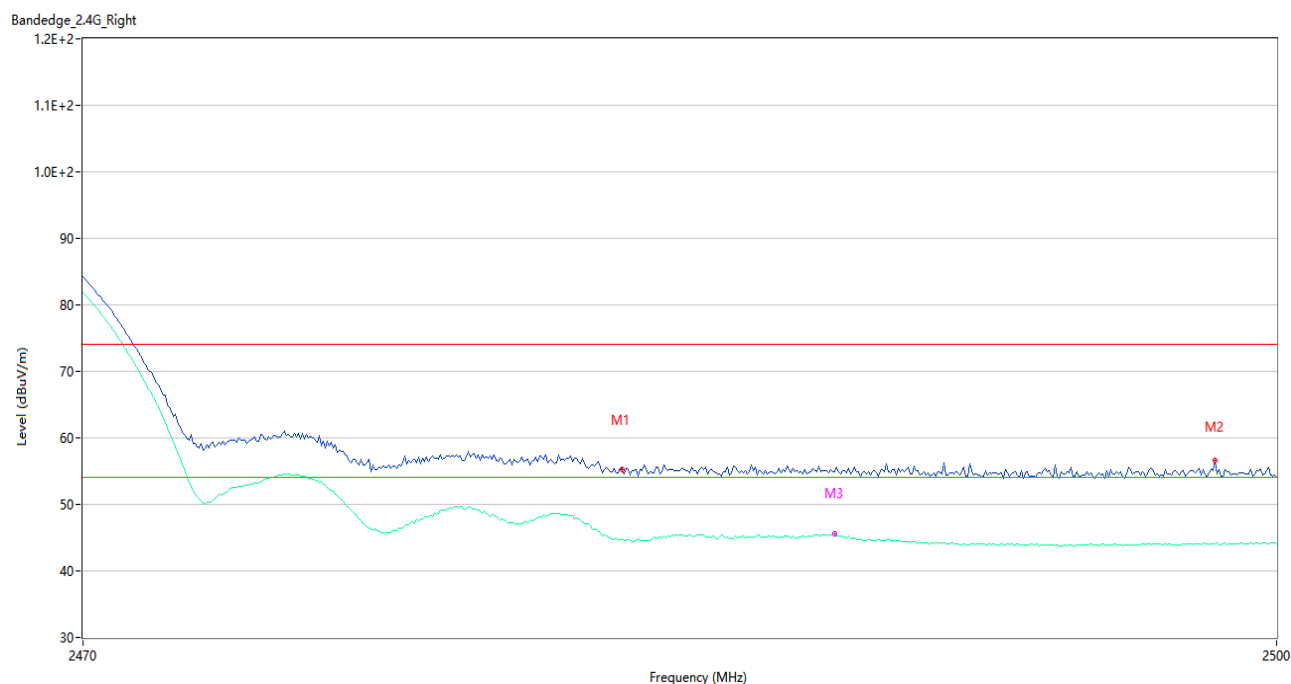
Test Data and Plots

802.11b LOW CHANNEL



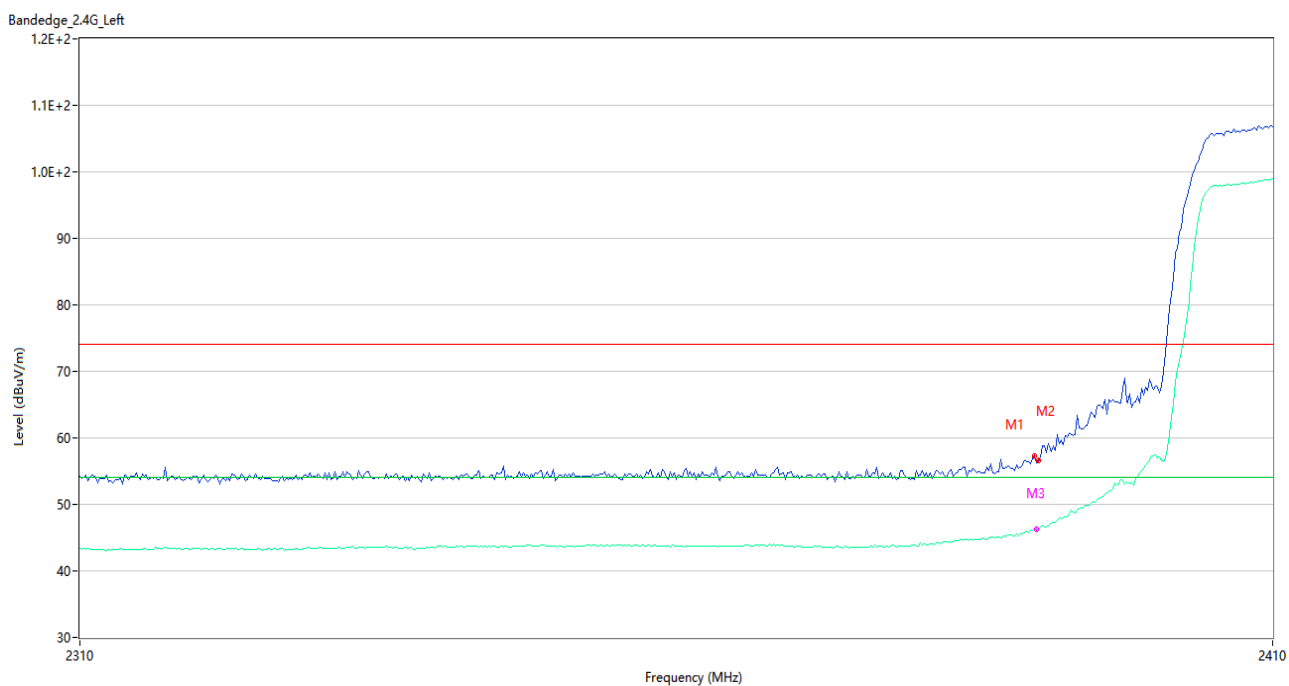
No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2386.167	56.72	74.0	17.28	Peak	351.00	100	Horizontal	Pass
1**	2386.167	46.12	54.0	7.88	AV	351.00	100	Horizontal	Pass
2	2390.000	55.01	74.0	18.99	Peak	189.00	100	Horizontal	Pass
2**	2390.000	44.18	54.0	9.82	AV	189.00	100	Horizontal	Pass
3	2386.000	55.93	74.0	18.07	Peak	355.00	100	Horizontal	Pass
3**	2386.000	46.19	54.0	7.81	AV	355.00	100	Horizontal	Pass

802.11b HIGH CHANNEL



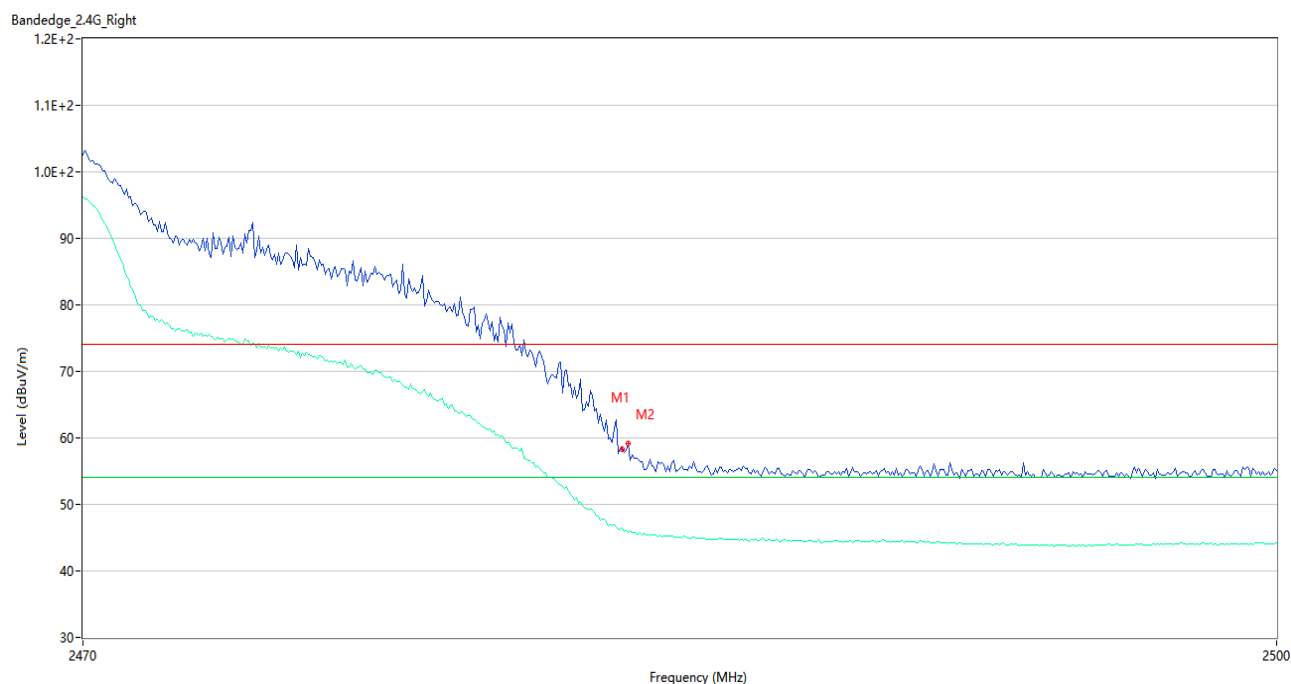
No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	55.21	74.0	18.79	Peak	31.00	100	Horizontal	Pass
1**	2483.500	44.71	54.0	9.29	AV	31.00	100	Horizontal	Pass
2	2498.450	56.65	74.0	17.35	Peak	313.00	100	Horizontal	Pass
2**	2498.450	43.99	54.0	10.01	AV	313.00	100	Horizontal	Pass
3	2488.850	54.87	74.0	19.13	Peak	241.00	100	Horizontal	Pass
3**	2488.850	45.54	54.0	8.46	AV	241.00	100	Horizontal	Pass

802.11g LOW CHANNEL



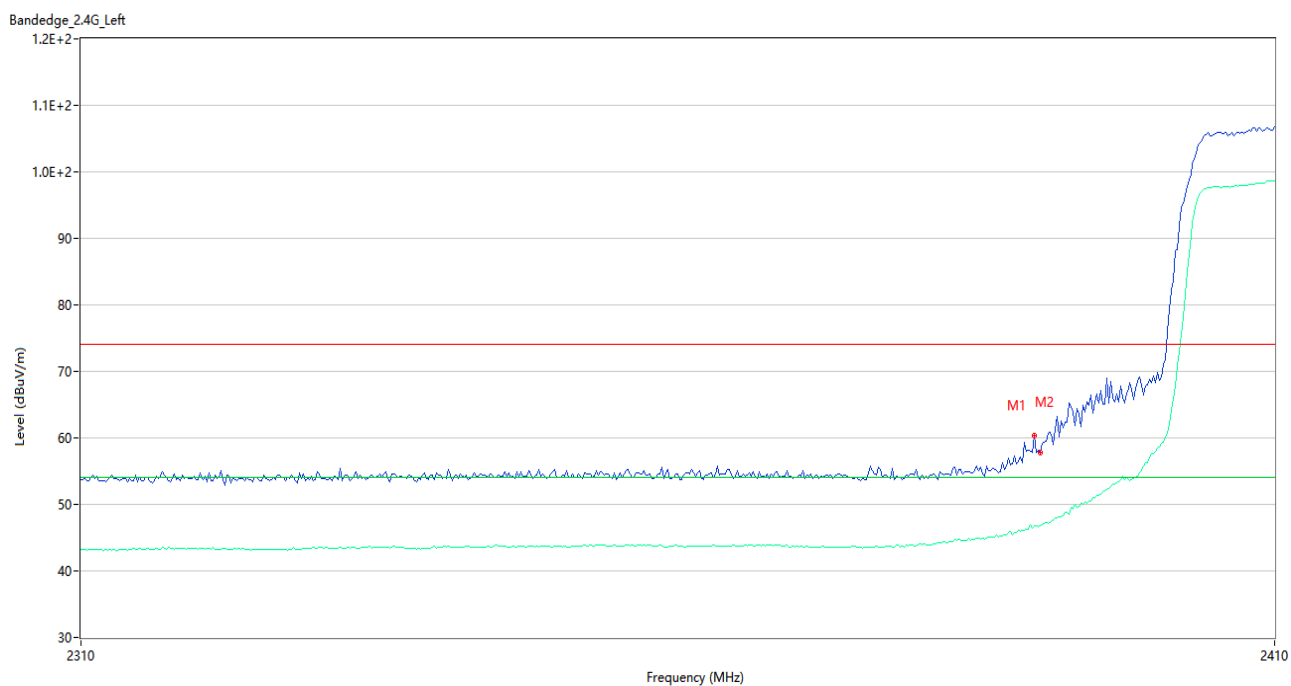
No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2389.667	57.31	74.0	16.69	Peak	49.00	100	Horizontal	Pass
1**	2389.667	46.23	54.0	7.77	AV	49.00	100	Horizontal	Pass
2	2390.000	56.64	74.0	17.36	Peak	52.00	200	Horizontal	Pass
2**	2390.000	46.13	54.0	7.87	AV	52.00	200	Horizontal	Pass
3	2389.833	56.32	74.0	17.68	Peak	152.00	100	Horizontal	Pass
3**	2389.833	46.34	54.0	7.66	AV	152.00	100	Horizontal	Pass

802.11g HIGH CHANNEL



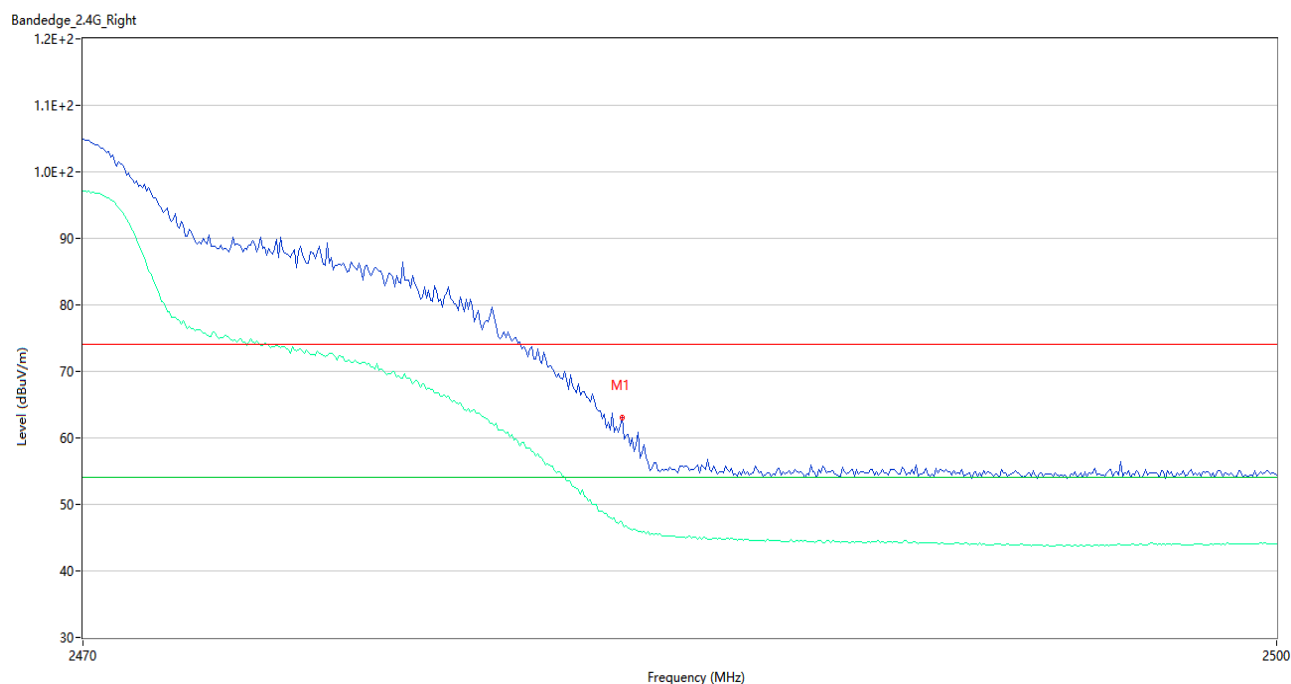
No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	58.36	74.0	15.64	Peak	54.00	200	Horizontal	Pass
1**	2483.500	46.40	54.0	7.60	AV	54.00	200	Horizontal	Pass
2	2483.650	59.18	74.0	14.82	Peak	42.00	100	Horizontal	Pass
2**	2483.650	45.75	54.0	8.25	AV	42.00	100	Horizontal	Pass

802.11n20 LOW CHANNEL



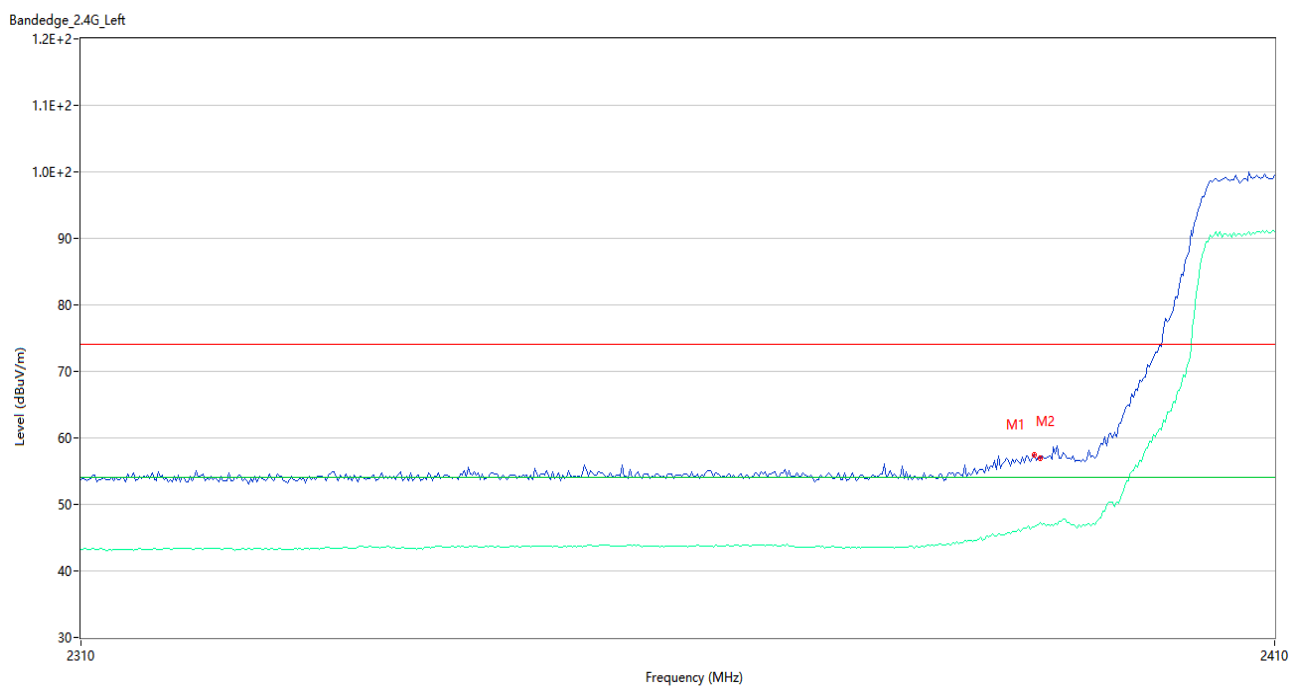
No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2389.500	60.28	74.0	13.72	Peak	47.00	400	Horizontal	Pass
1**	2389.500	46.76	54.0	7.24	AV	47.00	400	Horizontal	Pass
2	2390.000	57.73	74.0	16.27	Peak	27.00	300	Horizontal	Pass
2**	2390.000	46.86	54.0	7.14	AV	27.00	300	Horizontal	Pass

802.11n20 HIGH CHANNEL



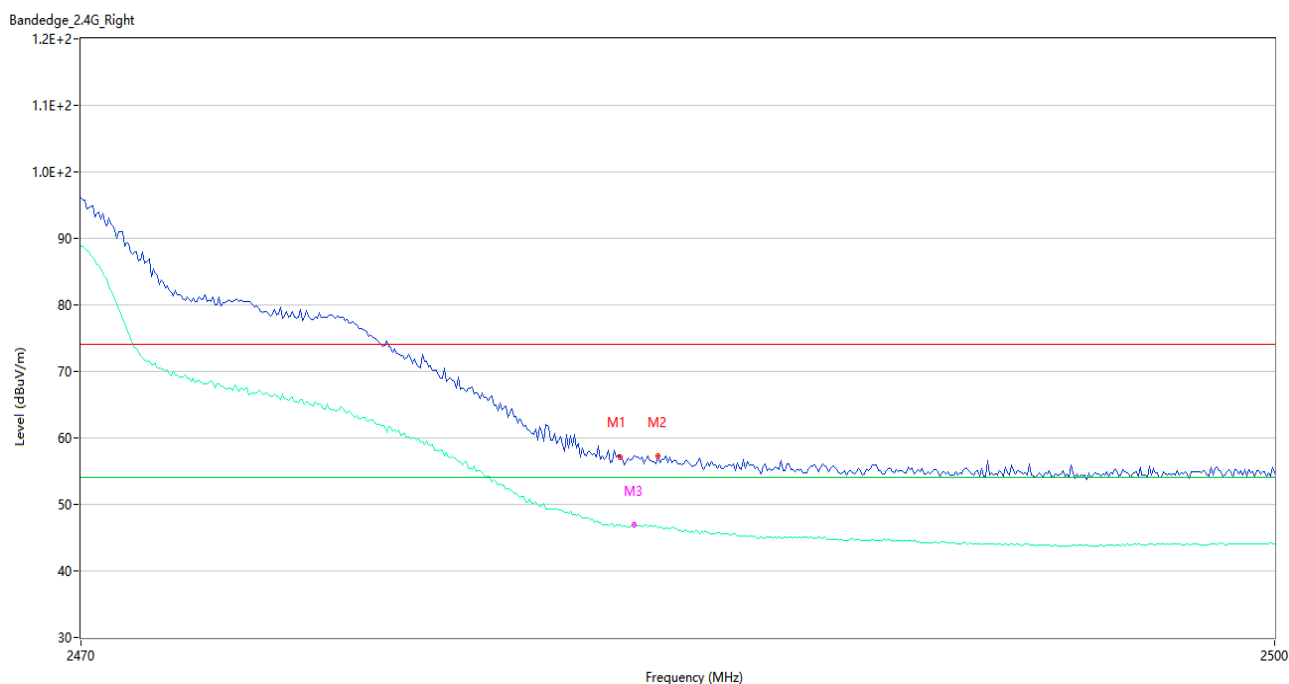
No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	62.99	74.0	11.01	Peak	60.00	200	Horizontal	Pass
1**	2483.500	47.21	54.0	6.79	AV	60.00	200	Horizontal	Pass

802.11n40 LOW CHANNEL



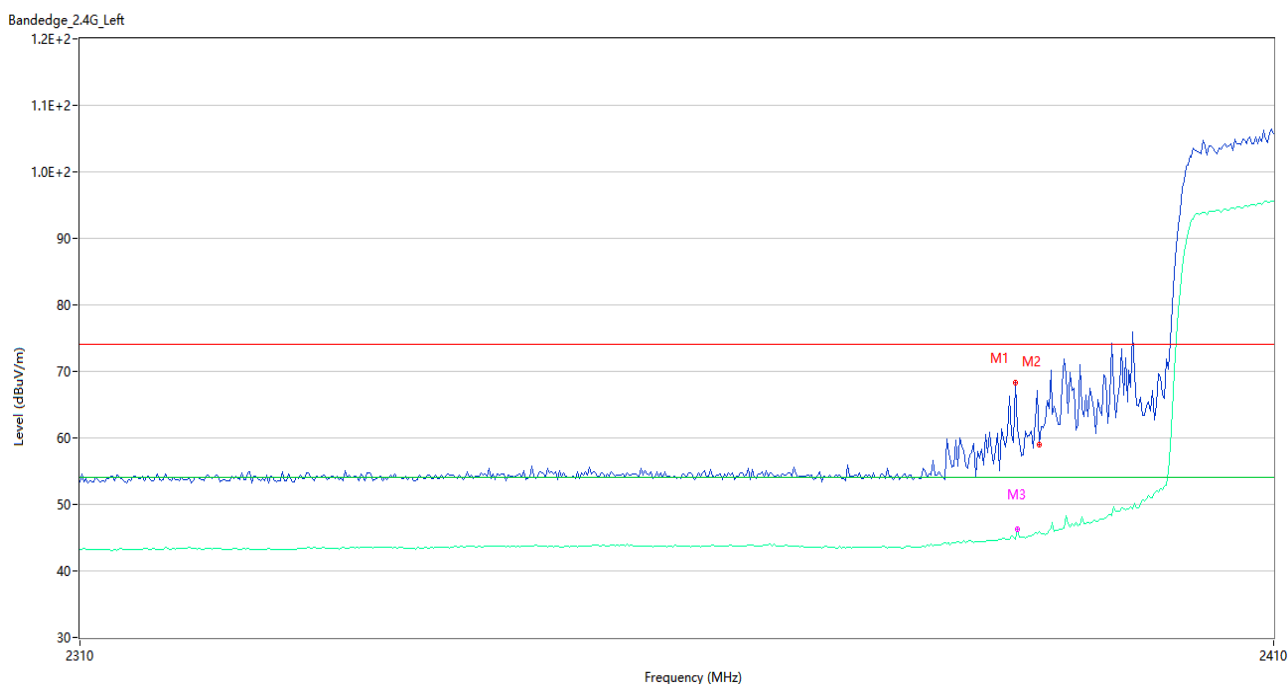
No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2389.500	57.44	74.0	16.56	Peak	37.00	200	Horizontal	Pass
1**	2389.500	46.64	54.0	7.36	AV	37.00	200	Horizontal	Pass
2	2390.000	56.93	74.0	17.07	Peak	49.00	100	Horizontal	Pass
2**	2390.000	47.21	54.0	6.79	AV	49.00	100	Horizontal	Pass

802.11n40 HIGH CHANNEL



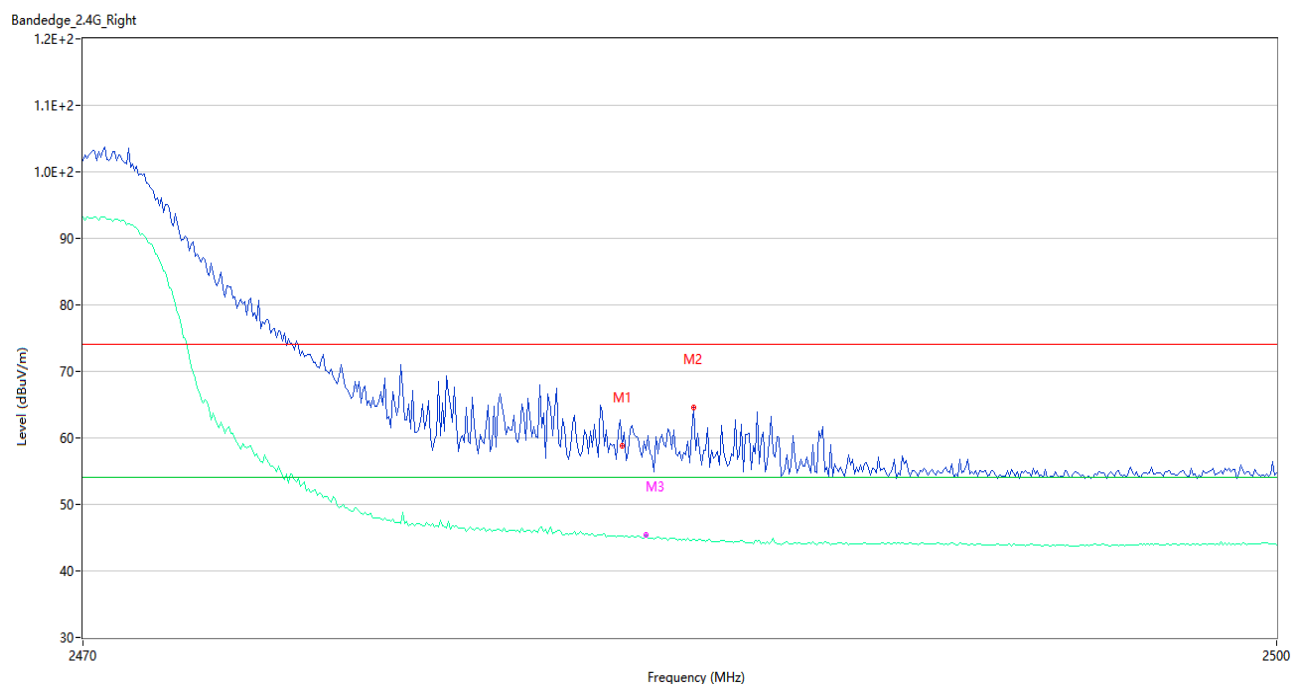
No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	57.12	74.0	16.88	Peak	28.00	100	Horizontal	Pass
1**	2483.500	46.87	54.0	7.13	AV	28.00	100	Horizontal	Pass
2	2484.450	57.36	74.0	16.64	Peak	38.00	400	Horizontal	Pass
2**	2484.450	46.41	54.0	7.59	AV	38.00	400	Horizontal	Pass
3	2483.850	57.26	74.0	16.74	Peak	38.00	100	Horizontal	Pass
3**	2483.850	46.90	54.0	7.10	AV	38.00	100	Horizontal	Pass

802.11ax20(SU) LOW CHANNEL



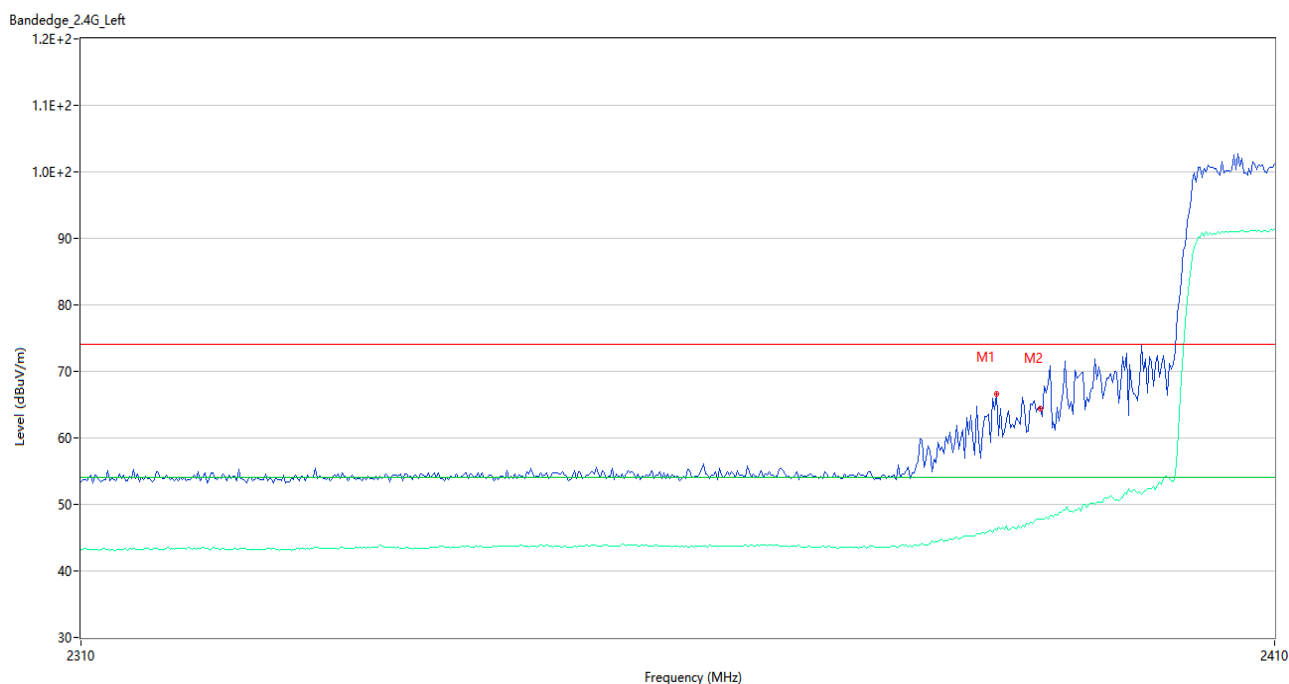
No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2388.000	68.35	74.0	5.65	Peak	34.00	400	Horizontal	Pass
1**	2388.000	44.80	54.0	9.20	AV	34.00	400	Horizontal	Pass
2	2390.000	58.99	74.0	15.01	Peak	249.00	100	Horizontal	Pass
2**	2390.000	45.99	54.0	8.01	AV	249.00	100	Horizontal	Pass
3	2388.167	61.55	74.0	12.45	Peak	34.00	100	Horizontal	Pass
3**	2388.167	46.34	54.0	7.66	AV	34.00	100	Horizontal	Pass

802.11ax20(SU) HIGH CHANNEL



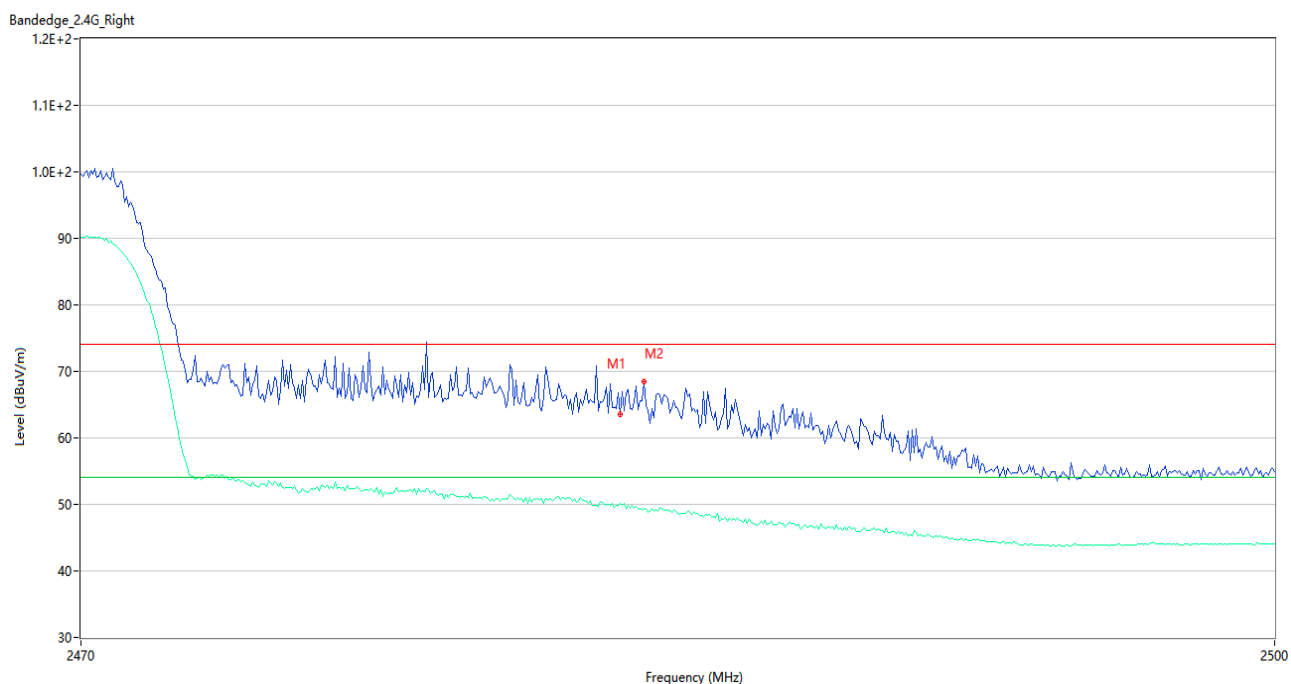
No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	58.85	74.0	15.15	Peak	37.00	200	Horizontal	Pass
1**	2483.500	45.30	54.0	8.70	AV	37.00	200	Horizontal	Pass
2	2485.300	64.63	74.0	9.37	Peak	360.00	200	Horizontal	Pass
2**	2485.300	44.70	54.0	9.30	AV	360.00	200	Horizontal	Pass
3	2484.100	58.08	74.0	15.92	Peak	360.00	100	Horizontal	Pass
3**	2484.100	45.35	54.0	8.65	AV	360.00	100	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	2386.333	66.66	74.0	7.34	Peak	163.00	200	Horizontal	Pass
1**	2386.333	46.15	54.0	7.85	AV	163.00	200	Horizontal	Pass
2	2390.000	64.46	74.0	9.54	Peak	313.00	300	Horizontal	Pass
2**	2390.000	47.82	54.0	6.18	AV	313.00	300	Horizontal	Pass

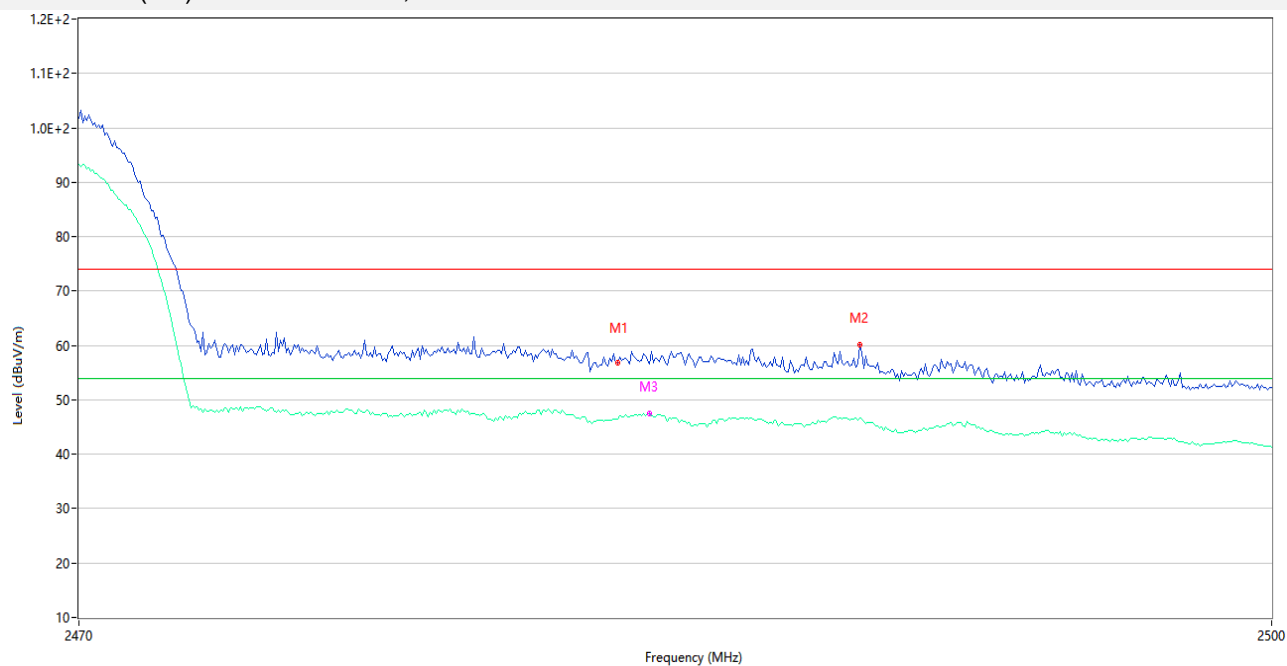
802.11ax40(SU) HIGH CHANNEL



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	63.57	74.0	10.43	Peak	39.00	300	Horizontal	Pass
1**	2483.500	50.24	54.0	3.76	AV	39.00	300	Horizontal	Pass
2	2484.100	68.53	74.0	5.47	Peak	39.00	400	Horizontal	Pass
2**	2484.100	49.36	54.0	4.64	AV	39.00	400	Horizontal	Pass

Worse Case

802.11ax40(SU) HIGH CHANNEL, ANT H



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	56.89	-1.04	74.0	17.11	Peak	190.00	300	Horizontal	Pass
1**	2483.500	46.46	-1.04	54.0	7.54	AV	190.00	300	Horizontal	Pass
2	2489.600	60.10	-1.11	74.0	13.90	Peak	194.00	400	Horizontal	Pass
2**	2489.600	46.62	-1.11	54.0	7.38	AV	194.00	400	Horizontal	Pass
3	2484.300	56.71	-1.07	74.0	17.29	Peak	197.00	100	Horizontal	Pass
3**	2484.300	47.59	-1.07	54.0	6.41	AV	197.00	100	Horizontal	Pass

802.11ax40(SU) HIGH CHANNEL, ANT V



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	53.16	-1.04	74.0	20.84	Peak	0.00	100	Vertical	Pass
1**	2483.500	42.16	-1.04	54.0	11.84	AV	0.00	100	Vertical	Pass
2	2491.900	54.61	-1.13	74.0	19.39	Peak	38.00	400	Vertical	Pass
2**	2491.900	42.22	-1.13	54.0	11.78	AV	38.00	400	Vertical	Pass
3	2488.150	52.83	-0.68	74.0	21.17	Peak	4.00	100	Vertical	Pass
3**	2488.150	42.77	-0.68	54.0	11.23	AV	4.00	100	Vertical	Pass

A.8 Power Spectral Density (PSD)

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

Test Data

802.11b Mode:

Channel	Spectral Power Density (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
Low	-10.71	8	Pass
Middle	-11.73	8	Pass
High	-12.37	8	Pass

802.11g Mode:

Channel	Spectral Power Density (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
Low	-13.76	8	Pass
Middle	-13.34	8	Pass
High	-13.09	8	Pass

802.11n-20 MHz Mode:

Channel	Spectral Power Density (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
Low	-13.84	8	Pass
Middle	-13.14	8	Pass
High	-13.57	8	Pass

802.11n-40 MHz Mode:

Channel	Spectral Power Density (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
Low	-18.24	8	Pass
Middle	-17.18	8	Pass
High	-15.64	8	Pass

802.11ax-20 MHz(SU) Mode:

Channel	Spectral Power Density (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
Low	-14.09	8	Pass
Middle	-13.68	8	Pass
High	-12.43	8	Pass

802.11ax-40 MHz(SU) Mode:

Channel	Spectral Power Density (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
Low	-17.16	8	Pass
Middle	-16.60	8	Pass
High	-16.93	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



802.11n-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 “Ti-CC26070315-AR.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “Ti-CC26070315-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “Ti-CC26070315-AI.PDF”.

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--END OF REPORT--