

TEST REPORT

Applicant: Realme Chongqing Mobile Telecommunications Corp., Ltd.
Address: No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing, China
Equipment Type: Mobile Phone
Model Name: RMX3506
Brand Name: realme
FCC ID: 2AUYFRMX3506
Test Standard: 47 CFR Part 15 Subpart C (refer section 3.1)
Test Date: Apr. 18, 2022 - May 13, 2022
Date of Issue: May 25, 2022

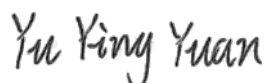
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Revision History		
Version	Issue Date	Revisions
<u>Rev. 01</u>	<u>May 25, 2022</u>	<u>Initial Issue</u>

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1 GENERAL INFORMATION

1.1 Identification of the Testing Laboratory

Company Name	Shenzhen BALUN Technology Co., Ltd.
Address	Block B, 1/F, Baisha Science and Technology Park, Shahe West Road, Nanshan District, ShenZhen, GuangDong Province, China
Phone Number	+86 755 6685 0100

1.2 Identification of the Responsible Testing Location

Test Location	Shenzhen BALUN Technology Co., Ltd.
Address	Block B, 1/F, Baisha Science and Technology Park, Shahe West Road, Nanshan District, ShenZhen, GuangDong Province, China
Accreditation Certificate	The laboratory is a testing organization accredited by FCC as a accredited testing laboratory. The designation number is CN1196.
Description	All measurement facilities used to collect the measurement data are located at Block B, 1/F, Baisha Science and Technology Park, Shahe West Road, Nanshan District, ShenZhen, GuangDong Province, China

2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	Realme Chongqing Mobile Telecommunications Corp., Ltd.
Address	No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing, China

2.2 Manufacturer Information

Manufacturer	Realme Chongqing Mobile Telecommunications Corp., Ltd.
Address	No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing, China

2.3 Factory Information

Factory	Realme Chongqing Mobile Telecommunications Corp., Ltd.
Address	No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing, China

2.4 General Description for Equipment under Test (EUT)

EUT Name	Mobile Phone
Model Name Under Test	RMX3506
Series Model Name	N/A
Description of Model name differentiation	N/A
Hardware Version	11
Software Version	realme UI V R Edition
Dimensions (Approx.)	164.1x75.53x8.48mm
Weight (Approx.)	181g(with battery)

2.5 Technical Information

Network and Wireless connectivity	2G Network GSM/GPRS/EGPRS 850/ 1900 MHz 3G Network WCDMA/HSDPA/HSUPA/HSPA+ Band 2/4/5 4G Network FDD LTE Band 2/4/5/7/13/66 TDD LTE Band 38/41 Bluetooth (BR+EDR+BLE) 2.4G WIFI 802.11b, 802.11g, 802.11n(HT20/40)
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The requirement for the following technical information of the EUT was tested in this report:

Frequency Range	802.11b/g/n(20 MHz): 2.412 GHz - 2.462 GHz $f_c = 2412 \text{ MHz} + (N-1)*5 \text{ MHz}$, where - f_c = "Operating Frequency" in MHz, - N = "Channel Number" with the range from 1 to 11. 802.11n(40 MHz): 2.422 GHz - 2.452 GHz $f_c = 2412 \text{ MHz} + (N-1)*5 \text{ MHz}$, where - f_c = "Operating Frequency" in MHz, - N = "Channel Number" with the range from 3 to 9.
Modulation Type	DSSS, OFDM
Product Type	<input type="checkbox"/> Mobile <input checked="" type="checkbox"/> Portable <input type="checkbox"/> Fix Location
Antenna System (eg., MIMO, Smart Antenna)	N/A
Categorization as Correlated or Completely Uncorrelated	N/A
Antenna Type	PIFA Antenna
Antenna Gain	0.36 dBi (In test items related to antenna gain, the final results reflect this figure. This value is provided by the applicant.)
About the Product	Only the WIFI 802.11b, 802.11g and 802.11n (HT20/40) was tested in this report.

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

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	1/6/6.5/13.5 Mbps	1/2/3/4/5/6/7/8 /9/10/11
6dB Bandwidth	11b/11g/11n20/11n40	1/6/6.5/13.5 Mbps	1/2/3/4/5/6/7/8 /9/10/11
Conducted Spurious Emission	11b/11g/11n20/11n40	1/6/6.5/13.5 Mbps	1/2/3/4/5/6/7/8 /9/10/11
Conducted Emission	11b/11g/11n20/11n40	1/6/6.5/13.5 Mbps	1/2/3/4/5/6/7/8 /9/10/11
Radiated Spurious Emission	11b/11g/11n20/11n40	1/6/6.5/13.5 Mbps	1/2/3/4/5/6/7/8 /9/10/11
Band Edge	11b/11g/11n20/11n40	1/6/6.5/13.5 Mbps	1/2/3/4/5/6/7/8 /9/10/11
Power spectral density (PSD)	11b/11g/11n20/11n40	1/6/6.5/13.5 Mbps	1/2/3/4/5/6/7/8 /9/10/11

Note: The above EUT information in section 2.4 and 2.6 was declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or user's manual.

2.6 Additional Instructions

EUT Software Settings:

Mode	<input checked="" type="checkbox"/> Special software is used. The software provided by client to enable the EUT under transmission condition continuously at specific channel frequencies individually.
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During testing, Channel and Power Controlling Software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product.

Power level setup in software			
Test Software	Device bulid-in engineer test mode		
Mode	Channel	Frequency (MHz)	Soft Set
802.11 b	1	2412	15.00
	6	2437	16.00
	11	2462	15.00
802.11 g	1	2412	11.00
	2	2417	15.00
	6	2437	15.00
	10	2457	15.00
	11	2462	6.00
802.11 n20	1	2412	8.00
	2	2417	14.00
	6	2437	14.00
	8	2447	14.00
	9	2452	13.00
	10	2457	10.00
	11	2462	6.00
802.11 n40	3	2422	6.00
	4	2427	8.00
	5	2432	10.00
	6	2437	12.00
	7	2442	10.00
	8	2447	9.00
	9	2452	6.00

Run software:



3 SUMMARY OF TEST RESULTS

3.1 Test Standards

No.	Identity	Document Title
1	47 CFR Part 15, Subpart C	Miscellaneous Wireless Communications Services
2	ANSI C63.10-2013	American National Standard of 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	6dB 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
10	Receiver Spurious Emissions	N/A	N/A	N/A ^{Note 2}

Note¹: Please refer to section 5.1.

Note²: Only radio communication receivers operating in stand-alone mode within the band 30-960 MHz, as well as scanner receivers, are subject to Industry Canada requirements, so this test is not applicable.

Note³: Compared with the EUT of test report BL-SZ2240469-603, the EUT of this report replace the:

- 1.The model name is changed from RMX3581 to RMX3506.
- 2.The FCC ID number is changed from FCC ID: 2AUYFRMX3581 to FCC ID: 2AUYFRMX3506.
- 3.The software version changes from RMX3581_11_A.01 to realme UI V R Edition, The RF function is not affected.
- 4.There are changes in the rear cover camera decoration. For details, see the product appearance photos.

Therefore, all test data please refer to report BL-SZ2240469-603, which was issued by Shenzhen BALUN Technology Co., Ltd. on May 18, 2022.

4 GENERAL TEST CONFIGURATIONS

4.1 Test Environments

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

Relative Humidity	45% to 55%	
Atmospheric Pressure	100 kPa to 102 kPa	
Temperature	NT (Normal Temperature)	+22°C to +25°C
Working Voltage of the EUT	NV (Normal Voltage)	3.87 V

4.2 Test Equipment List

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer	ROHDE&SCHWARZ	FSV-40	101544	2022.01.04	2023.01.03
Spectrum Analyzer	KEYSIGHT	N9020A	MY50330200	2021.06.01	2022.05.31
Signaling Unit	ROHDE&SCHWARZ	CMW500	142028	2021.06.01	2022.05.31
EMI Receiver	KEYSIGHT	N9038A	MY53220118	2021.09.13	2022.09.12
EMI Receiver	ROHDE&SCHWARZ	ESRP	101036	2021.10.10	2022.10.09
LISN	SCHWARZBECK	NSLK 8127	8127-687	2021.06.08	2022.06.07
Test Antenna- Loop(9 kHz-30 MHz)	SCHWARZBECK	FMZB 1519	1519-037	2021.04.16	2024.04.15
Test Antenna- Bi-Log(30 MHz-3 GHz)	SCHWARZBECK	VULB 9163	9163-624	2021.08.20	2024.08.19
Test Antenna- Horn(1-18 GHz)	SCHWARZBECK	BBHA 9120D	9120D-1917	2019.07.02	2022.07.01
Test Antenna- Horn (18-40 GHz)	A-INFO	LB- 180400KF	J211060273	2021.07.02	2024.07.01
Anechoic Chamber	RAINFORD	9m*6m*6m	N/A	2021.09.04	2024.09.09
Anechoic Chamber	EMC Electronic Co., Ltd	20.10*11.60 *7.35m	N/A	2021.08.15	2024.08.14
Shielded Enclosure	ChangNing	CN-130701	130703	--	--
Power Sensor	KEYSIGHT	U2063XA	MY58000247	2021.09.13	2022.09.12

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	V19.8.28.435	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	0.82°C
Humidity	4.1%

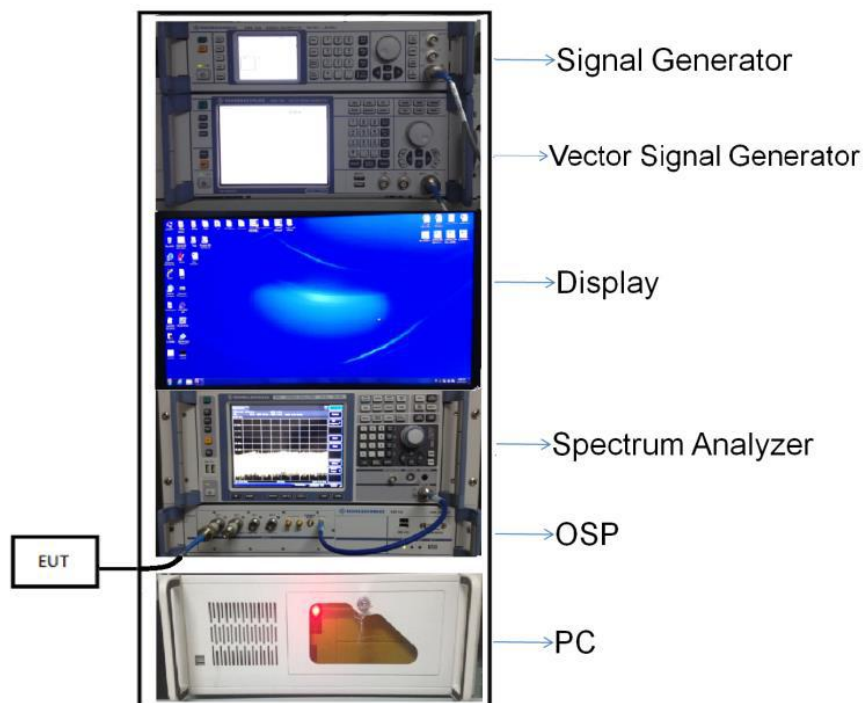
4.5 Description of Test Setup

4.5.1 For Antenna Port Test

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

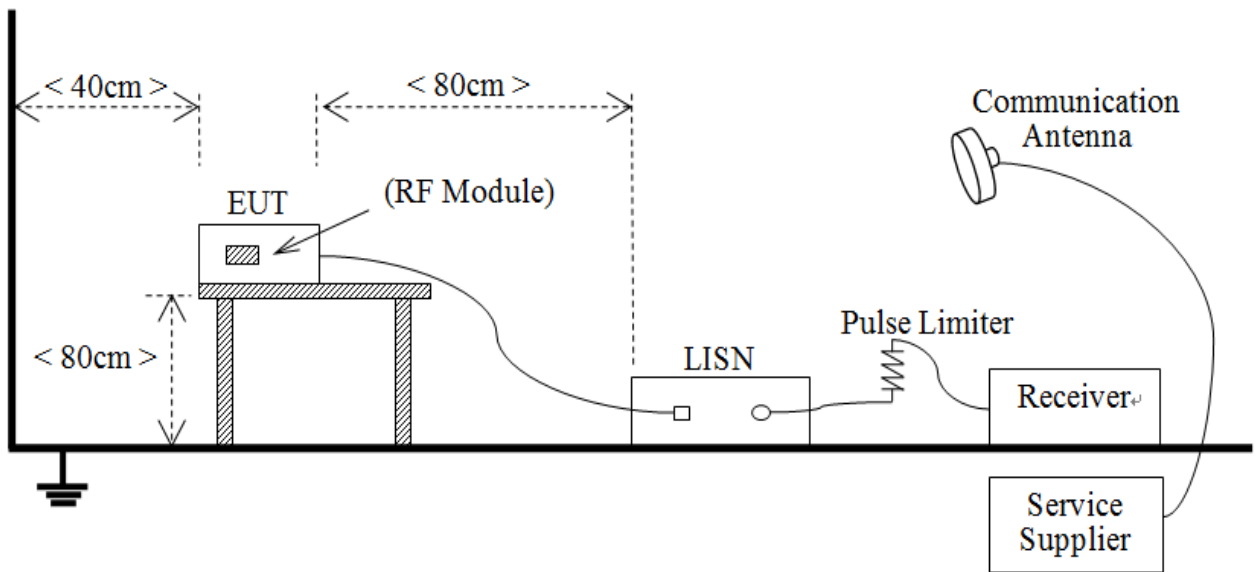
For example: the measurement value is 10 dBm and the cable 0.5dBm used, then the final result of EUT:

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



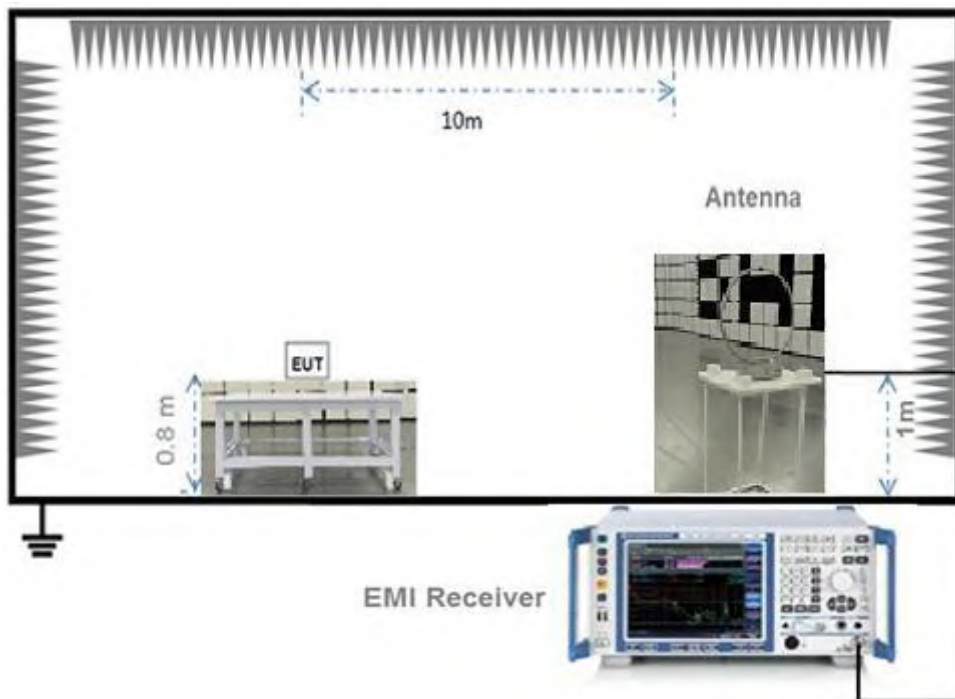
(Diagram 1)

4.5.2 For AC Power Supply Port Test



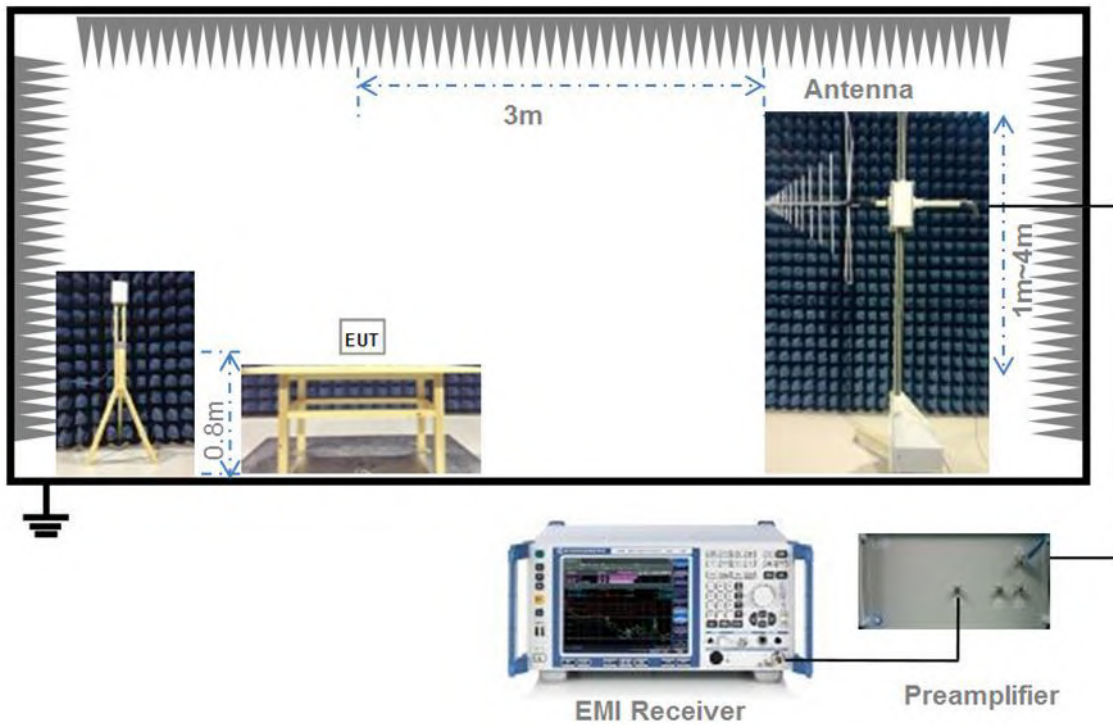
(Diagram 2)

4.5.3 For Radiated Test (Below 30 MHz)



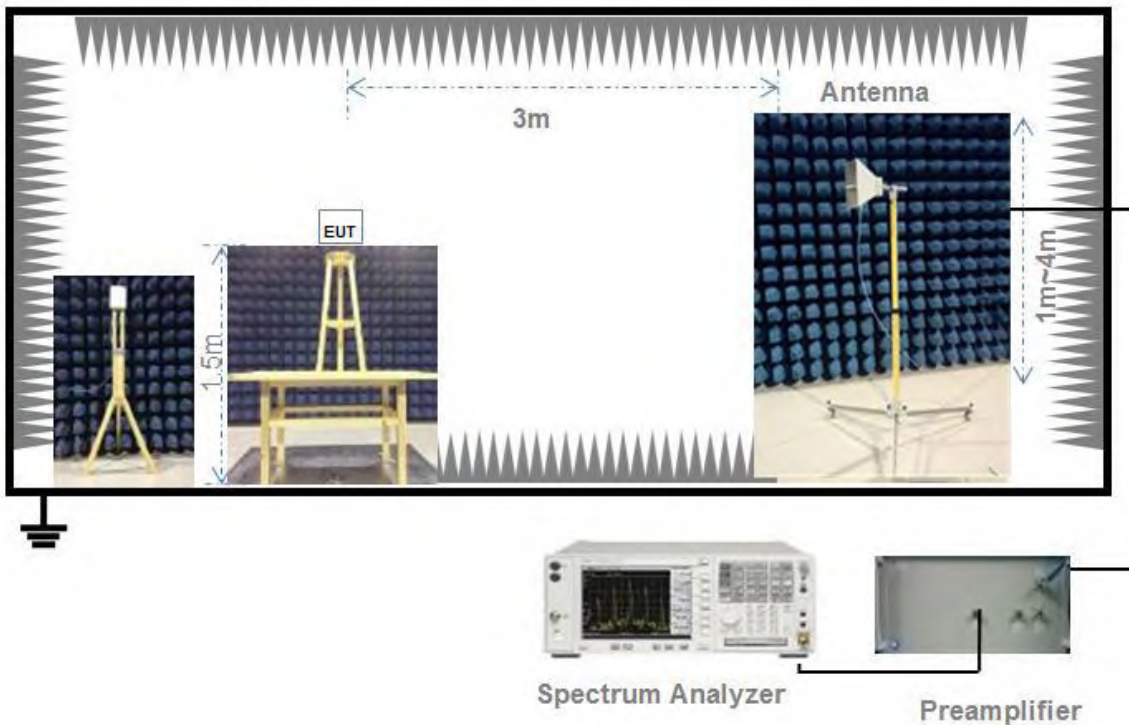
(Diagram 3)

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.

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 as

described in Section 6.0.

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 to the measurement result.

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 6dB 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

Use the following spectrum analyzer settings:

Set RBW = 100 kHz.

Set the video bandwidth (VBW) \geq 3 RBW.

Detector = Peak.

Trace mode = max hold.

Sweep = auto couple.

Allow the trace to stabilize.

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

5.3.4 Test Result

Please refer to ANNEX A.2.

5.4 Conducted Spurious Emission

5.4.1 Limit

FCC §15.247(d)

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

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

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

Set span to 2 MHz

RBW = 100 kHz.

VBW $\geq 3 \times$ RBW.

Detector = peak.

Sweep time = auto.

Trace mode = max hold.

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

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

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

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

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

Attenuation: Auto (at least 10 dB preferred).

Sweep time: Coupled.

Resolution bandwidth: 100 kHz.

Video bandwidth: 300 kHz.

Detector: Peak.

Trace: Max hold.

5.5.4 Test Result

Please refer to ANNEX A.4.

5.6 Conducted Emission

5.6.1 Limit

FCC §15.207

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

Note:

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

The power of the EUT transmitting frequency should be ignored.

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

Use the following spectrum analyzer settings:

Span = wide enough to fully capture the emission being measured

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

VBW \geq RBW

Sweep = auto

Detector function = peak

Trace = max hold

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

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

5.8.4 Test Result

Please refer to ANNEX A.7.

5.9 Power Spectral density (PSD)

5.9.1 Limit

FCC §15.247(e)

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

5.9.2 Test Setup

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

5.9.3 Test Procedure

Set analyzer center frequency to DTS channel center frequency.

Set the span to 1.5 times the DTS bandwidth.

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

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

Detector = peak.

Sweep time = auto couple.

Trace mode = max hold.

Allow trace to fully stabilize.

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

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

5.9.4 Test Result

Please refer to ANNEX A.8.

ANNEX A TEST RESULT

A.1 Output Power

Duty Cycle

Test Mode	On Time (ms)	On+Off time (ms)	Duty Cycle
802.11b	8.402	8.482	99.06%
802.11g	1.390	1.456	95.47%
802.11n-20 MHz	1.302	1.366	95.31%
802.11n-40 MHz	0.647	0.711	91.00%

Peak Power Test Data

802.11b Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
1	20.36	108.64	30	1000	Pass
6	20.35	108.39			Pass
11	20.30	107.15			Pass

802.11g Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
1	18.55	71.61	30	1000	Pass
2	22.27	168.66			Pass
6	22.03	159.59			Pass
10	23.05	201.84			Pass
11	13.59	22.86			Pass

802.11n-20 MHz Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
1	16.00	39.81	30	1000	Pass
2	21.58	143.88			Pass
6	21.35	136.46			Pass
8	21.17	130.92			Pass
9	20.60	114.82			Pass
10	18.49	70.63			Pass
11	13.86	24.32			Pass

802.11n-40 MHz Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
3	14.50	28.18	30	1000	Pass
4	16.42	43.85			Pass
5	18.59	72.28			Pass
6	20.17	103.99			Pass
7	17.87	61.24			Pass
8	17.12	51.52			Pass
9	13.93	24.72			Pass

Average Power Test Data

802.11b Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
1	17.38	54.70	30	1000	Pass
6	17.41	55.08			Pass
11	17.35	54.33			Pass

802.11g Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
1	12.32	17.06	30	1000	Pass
2	16.10	40.74			Pass
6	15.85	38.46			Pass
10	16.84	48.31			Pass
11	7.39	5.48			Pass

802.11n-20 MHz Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
1	9.78	9.51	30	1000	Pass
2	15.35	34.28			Pass
6	15.12	32.51			Pass
8	14.95	31.26			Pass
9	14.38	27.42			Pass
10	12.22	16.67			Pass
11	7.63	5.79			Pass

802.11n-40 MHz Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
3	7.96	6.25	30	1000	Pass
4	9.89	9.75			Pass
5	12.05	16.03			Pass
6	13.64	23.12			Pass
7	11.33	13.58			Pass
8	10.59	11.46			Pass
9	7.39	5.48			Pass

A.2 Bandwidth

Test Data

802.11b Mode:

Channel	6 dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limits (kHz)
1	8.600000	11.825000	≥500
6	8.650000	11.848000	≥500
11	8.150000	11.709000	≥500

802.11g Mode:

Channel	6 dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limits (kHz)
1	16.400000	17.157000	≥500
6	16.400000	17.129000	≥500
11	15.900000	16.835000	≥500

802.11n-20MHz Mode:

Channel	6 dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limits (kHz)
1	16.900000	17.830000	≥500
6	17.100000	17.957000	≥500
11	16.600000	17.677000	≥500

802.11n-40MHz Mode:

Channel	6 dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limits (kHz)
3	35.550000	36.171000	≥500
6	36.150000	36.210000	≥500
9	35.500000	36.090000	≥500

Test Plots

6 dB Bandwidth

802.11b CHANNEL 1



802.11b CHANNEL 6



802.11b CHANNEL 11



802.11g CHANNEL 1



802.11g CHANNEL 6



802.11g CHANNEL 11



802.11n-20 MHz CHANNEL 1



802.11n-20 MHz CHANNEL 6



802.11n-20 MHz CHANNEL 11



802.11n-40 MHz CHANNEL 3



802.11n-40 MHz CHANNEL 6

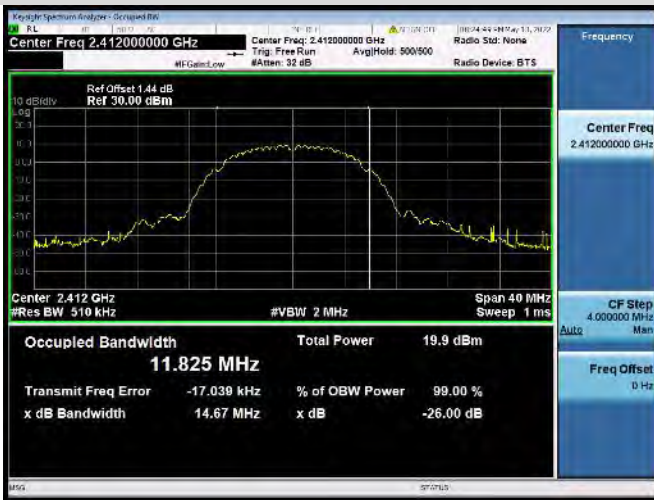


802.11n-40 MHz CHANNEL 9

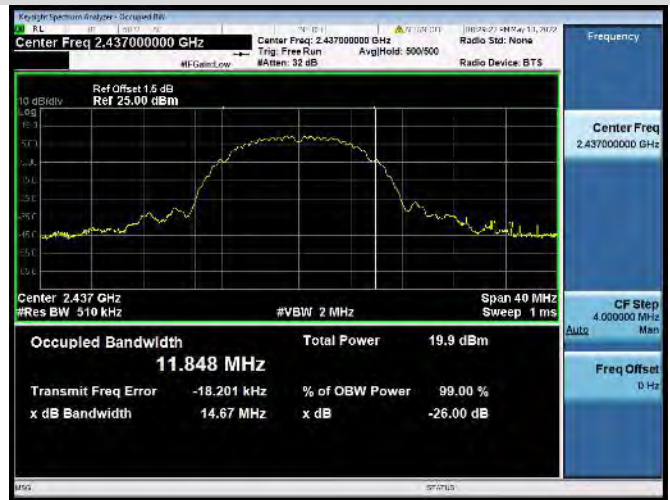


99% Bandwidth

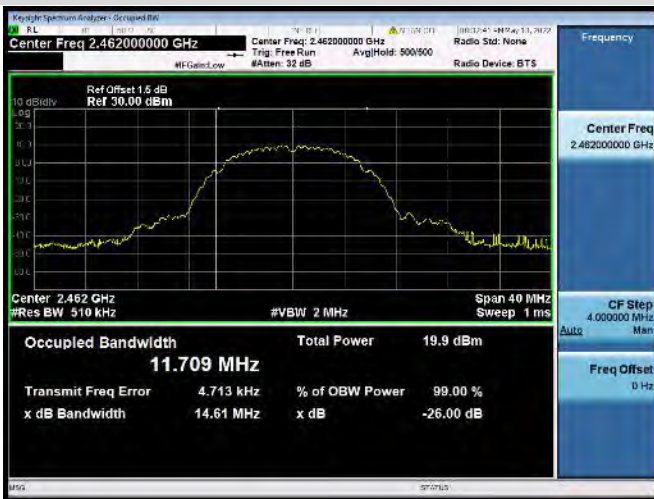
802.11b CHANNEL 1



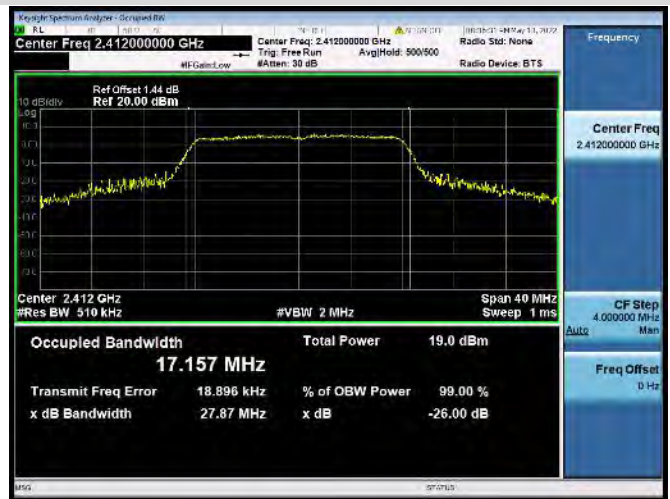
802.11b CHANNEL 6



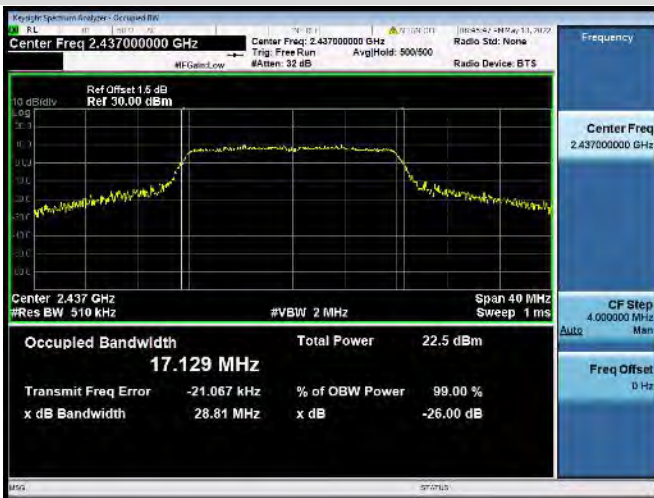
802.11b CHANNEL 11



802.11g CHANNEL 1



802.11g CHANNEL 6



802.11g CHANNEL 11



802.11n-20 MHz CHANNEL 1



802.11n-20 MHz CHANNEL 6



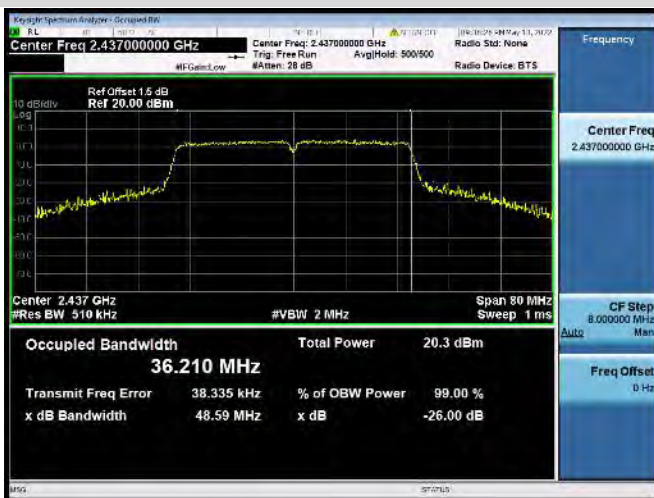
802.11n-20 MHz CHANNEL 11



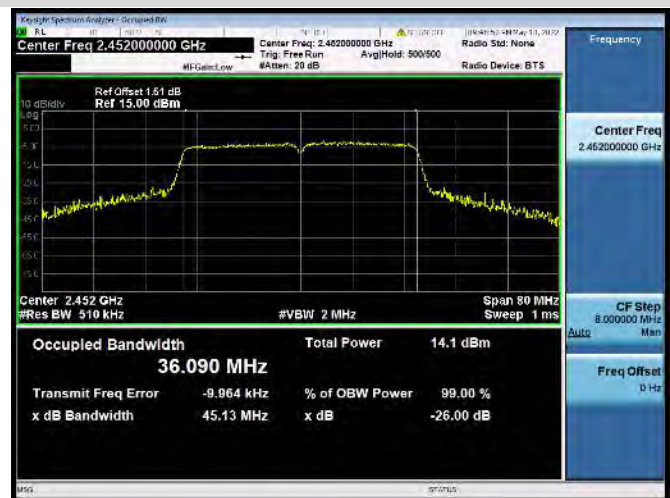
802.11n-40 MHz CHANNEL 3



802.11n-40 MHz CHANNEL 6



802.11n-40 MHz CHANNEL 9



A.3 Conducted Spurious Emissions

Test Data

802.11b Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
1	-48.46	9.08	-10.92	Pass
6	-49.67	8.97	-11.03	Pass
11	-48.36	9.14	-10.86	Pass

802.11g Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
1	-50.33	0.84	-19.16	Pass
2	-49.91	5.04	-14.96	Pass
6	-49.07	5.04	-14.96	Pass
10	-48.34	6.15	-13.85	Pass
11	-49.94	-3.16	-23.16	Pass

802.11n-20MHz Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
1	-50.05	-1.64	-21.64	Pass
2	-49.41	4.04	-15.96	Pass
6	-49.62	3.55	-16.45	Pass
8	-50.04	3.59	-16.41	Pass
9	-49.45	2.71	-17.29	Pass
10	-48.59	0.82	-19.18	Pass
11	-49.09	-3.94	-23.94	Pass

802.11n-40MHz Mode:

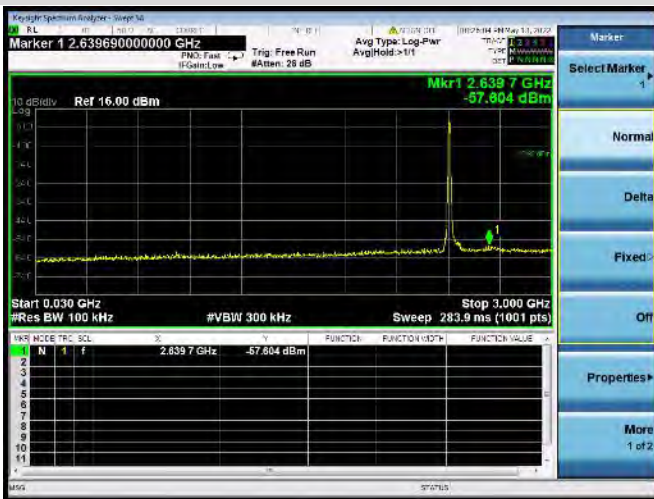
Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
3	-49.29	-6.38	-26.38	Pass
4	-49.62	-4.67	-24.67	Pass
5	-48.83	-2.21	-22.21	Pass
6	-49.08	-0.86	-20.86	Pass
7	-49.38	-3.18	-23.18	Pass
8	-49.72	-3.90	-23.90	Pass
9	-50.40	-6.56	-26.56	Pass

Test Plots

802.11b CHANNEL 1 CARRIER LEVEL



802.11b CHANNEL 1, SPURIOUS 30 MHz ~ 3 GHz



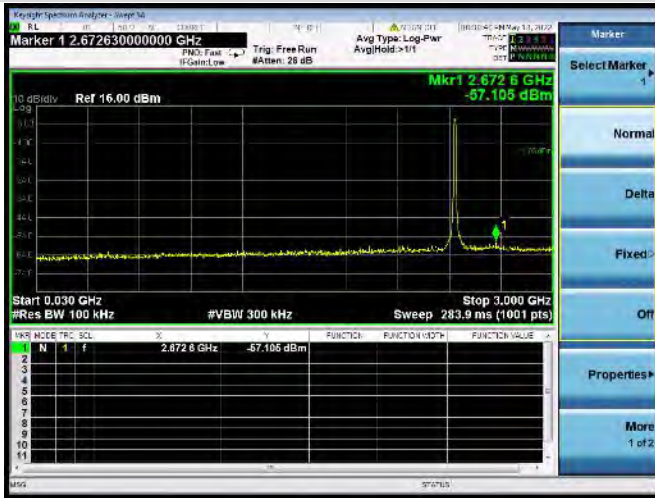
802.11b CHANNEL 1, SPURIOUS 2 GHz ~ 25 GHz



802.11b CHANNEL 6 CARRIER LEVEL



802.11b CHANNEL 6, SPURIOUS
30 MHz ~ 3 GHz



802.11b CHANNEL 6, SPURIOUS
2 GHz ~ 25 GHz



802.11b CHANNEL 11 CARRIER LEVEL



802.11b CHANNEL 11, SPURIOUS
30 MHz ~ 3 GHz



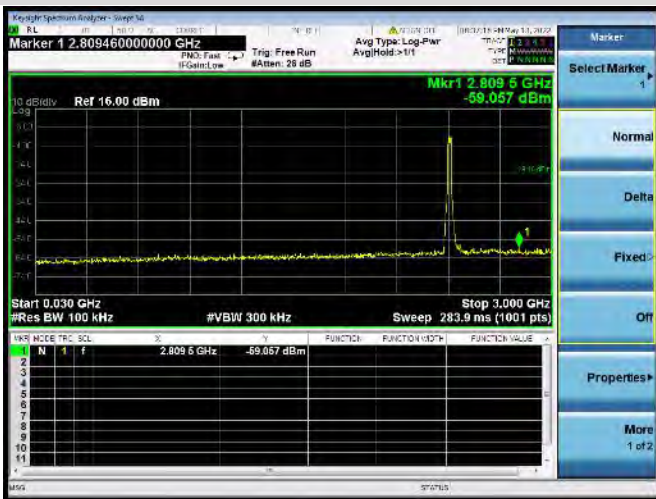
802.11b CHANNEL 11, SPURIOUS
2 GHz ~ 25 GHz



802.11g CHANNEL 1 CARRIER LEVEL



802.11g CHANNEL 1, SPURIOUS 30 MHz ~ 3 GHz



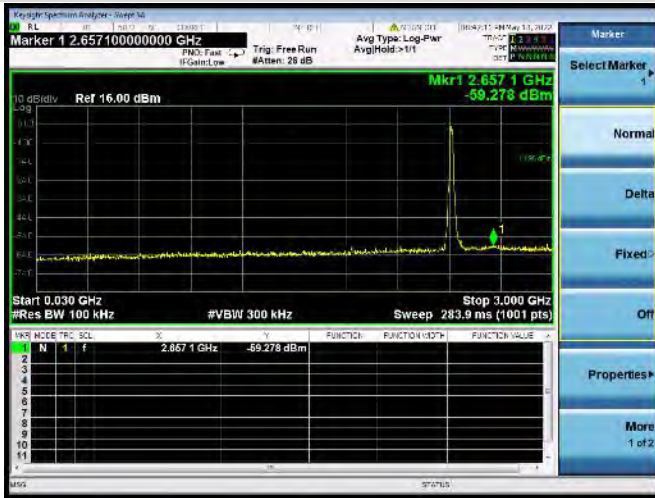
802.11g CHANNEL 1, SPURIOUS 2 GHz ~ 25 GHz



802.11g CHANNEL 2 CARRIER LEVEL



802.11g CHANNEL 2, SPURIOUS
30 MHz ~ 3 GHz



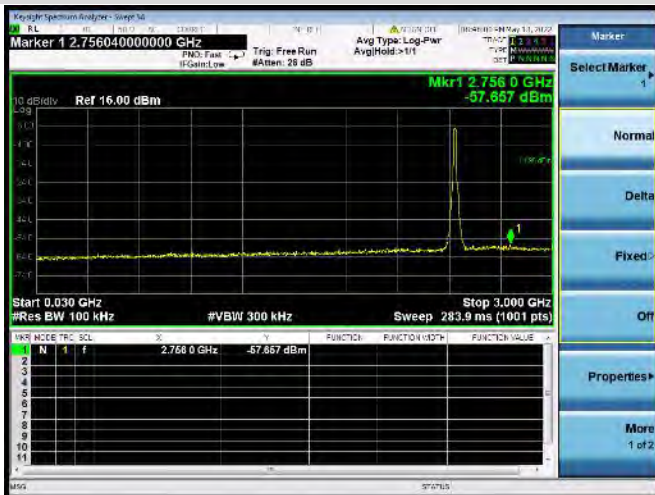
802.11g CHANNEL 2, SPURIOUS
2 GHz ~ 25 GHz



802.11g CHANNEL 6 CARRIER LEVEL



802.11g CHANNEL 6, SPURIOUS
30 MHz ~ 3 GHz



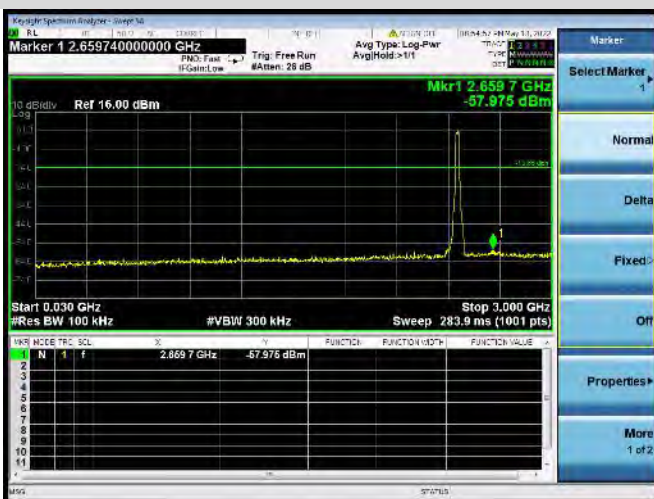
802.11g CHANNEL 6, SPURIOUS
2 GHz ~ 25 GHz



802.11g CHANNEL 10 CARRIER LEVEL



802.11g CHANNEL 10, SPURIOUS
30 MHz ~ 3 GHz



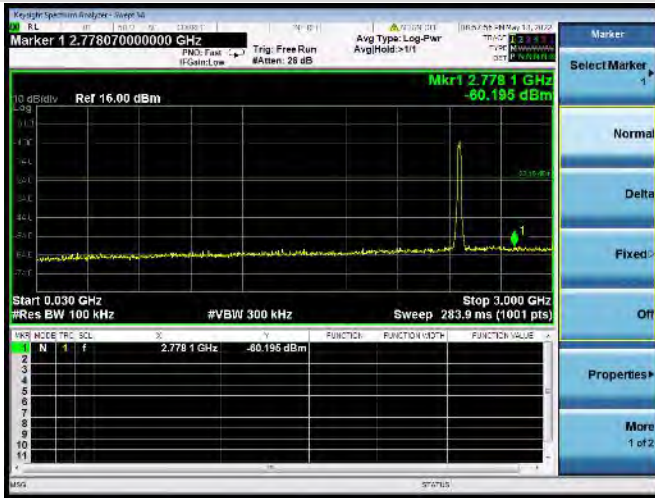
802.11g CHANNEL 10, SPURIOUS
2 GHz ~ 25 GHz



802.11g CHANNEL 11 CARRIER LEVEL



802.11g CHANNEL 11, SPURIOUS
30 MHz ~ 3 GHz



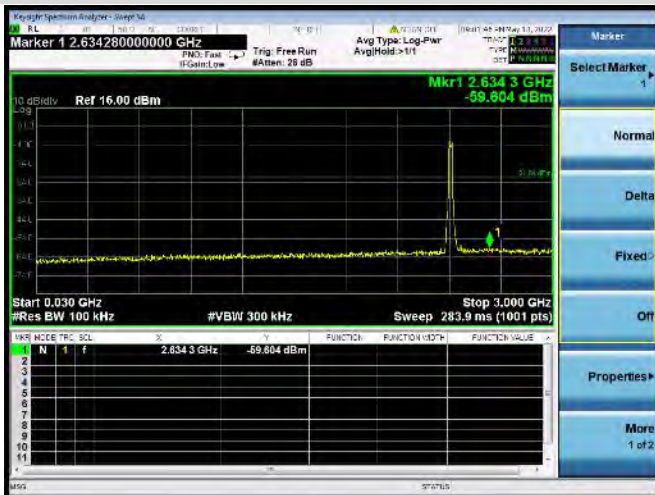
802.11g CHANNEL 11, SPURIOUS
2 GHz ~ 25 GHz



802.11n-20 MHz CHANNEL 1 CARRIER LEVEL



802.11n-20 MHz CHANNEL 1, SPURIOUS
30 MHz ~ 3 GHz



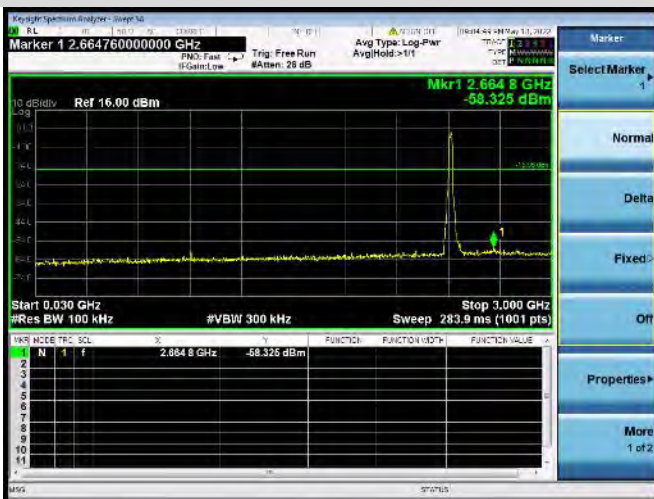
802.11n-20 MHz CHANNEL 1, SPURIOUS
2 GHz ~ 25 GHz



802.11n-20 MHz CHANNEL 2 CARRIER LEVEL



802.11n-20 MHz CHANNEL 2, SPURIOUS
30 MHz ~ 3 GHz



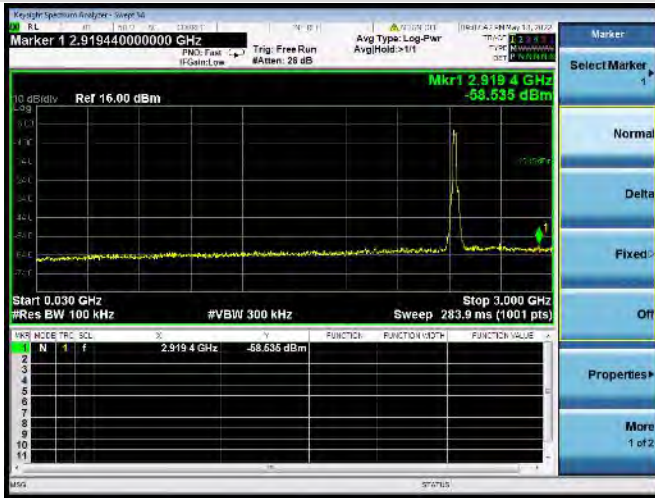
802.11n-20 MHz CHANNEL 2, SPURIOUS
2 GHz ~ 25 GHz



802.11n-20 MHz CHANNEL 6 CARRIER LEVEL



802.11n-20 MHz CHANNEL 6, SPURIOUS
30 MHz ~ 3 GHz



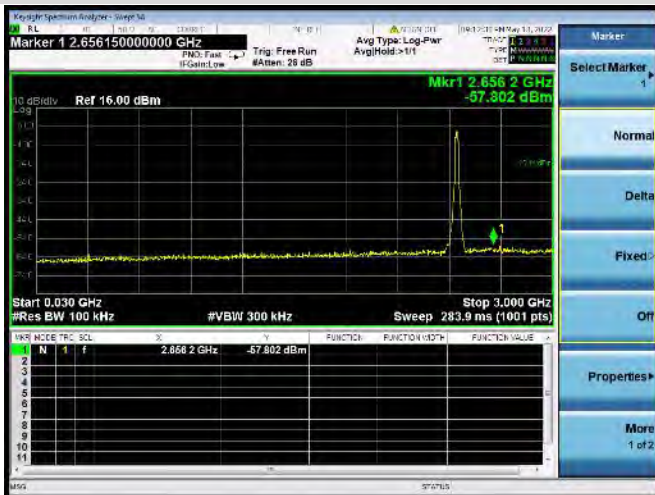
802.11n-20 MHz CHANNEL 6, SPURIOUS
2 GHz ~ 25 GHz



802.11n-20 MHz CHANNEL 8 CARRIER LEVEL



802.11n-20 MHz CHANNEL 8, SPURIOUS
30 MHz ~ 3 GHz



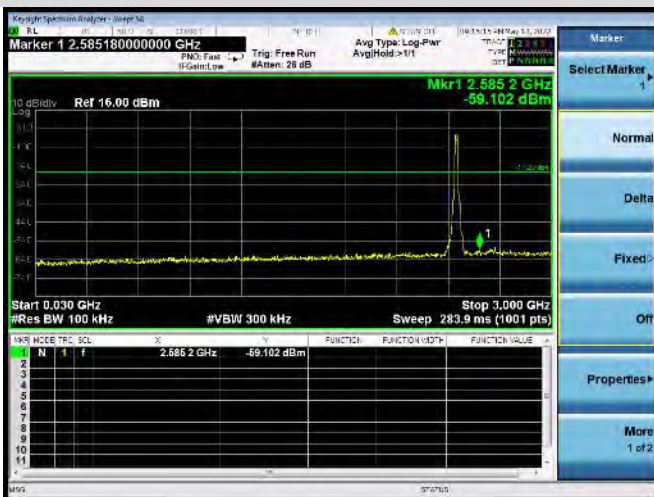
802.11n-20 MHz CHANNEL 8, SPURIOUS
2 GHz ~ 25 GHz



802.11n-20 MHz CHANNEL 9 CARRIER LEVEL



802.11n-20 MHz CHANNEL 9, SPURIOUS
30 MHz ~ 3 GHz



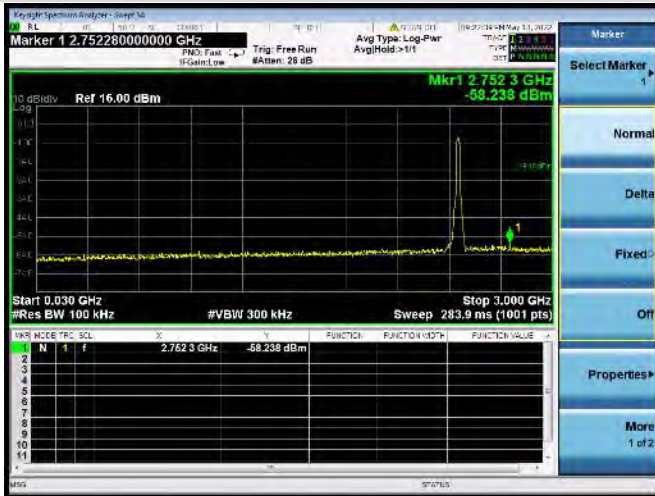
802.11n-20 MHz CHANNEL 9, SPURIOUS
2 GHz ~ 25 GHz



802.11n-20 MHz CHANNEL 10 CARRIER LEVEL



802.11n-20 MHz CHANNEL 10, SPURIOUS
30 MHz ~ 3 GHz



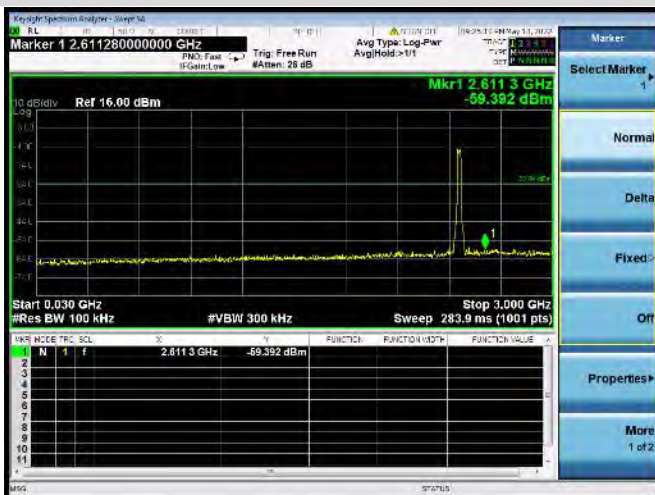
802.11n-20 MHz CHANNEL 10, SPURIOUS
2 GHz ~ 25 GHz



802.11n-20 MHz CHANNEL 11 CARRIER LEVEL



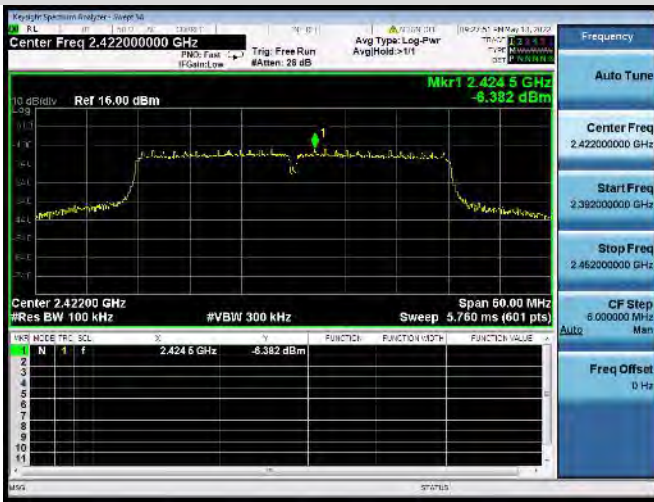
802.11n-20 MHz CHANNEL 11, SPURIOUS
30 MHz ~ 3 GHz



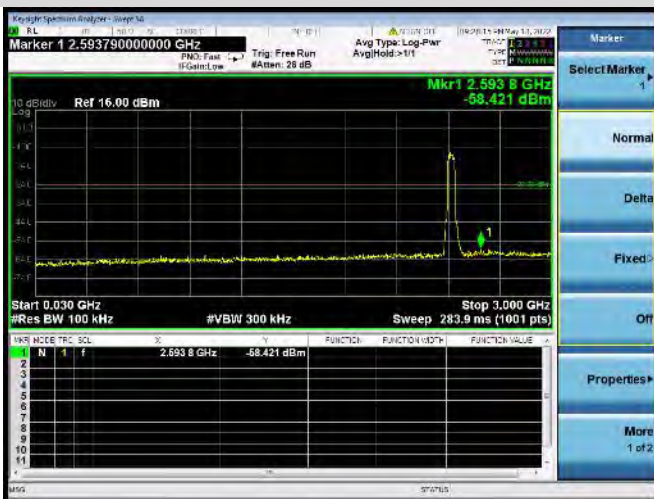
802.11n-20 MHz CHANNEL 11, SPURIOUS
2 GHz ~ 25 GHz



802.11n-40 MHz CHANNEL 3 CARRIER LEVEL



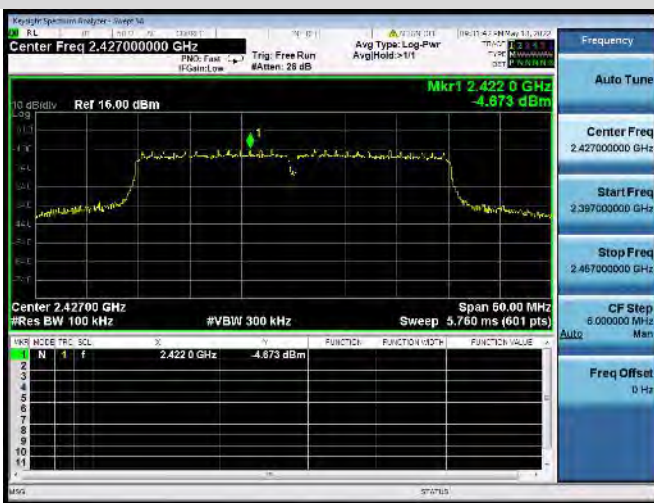
802.11n-40 MHz CHANNEL 3, SPURIOUS
30 MHz ~ 3 GHz



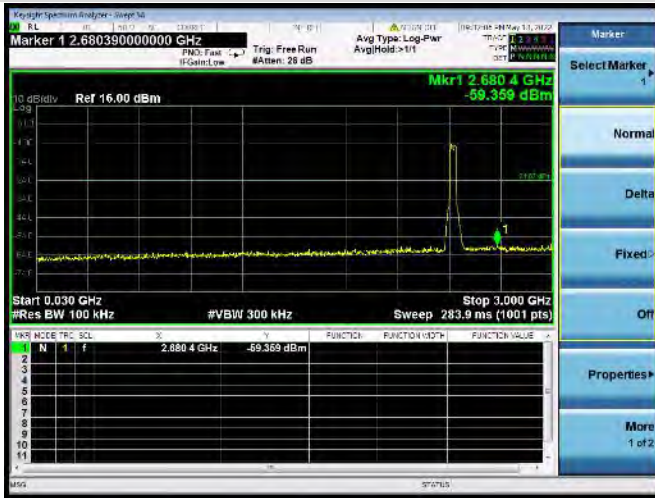
802.11n-40 MHz CHANNEL 3, SPURIOUS
2 GHz ~ 25 GHz



802.11n-40 MHz CHANNEL 4 CARRIER LEVEL



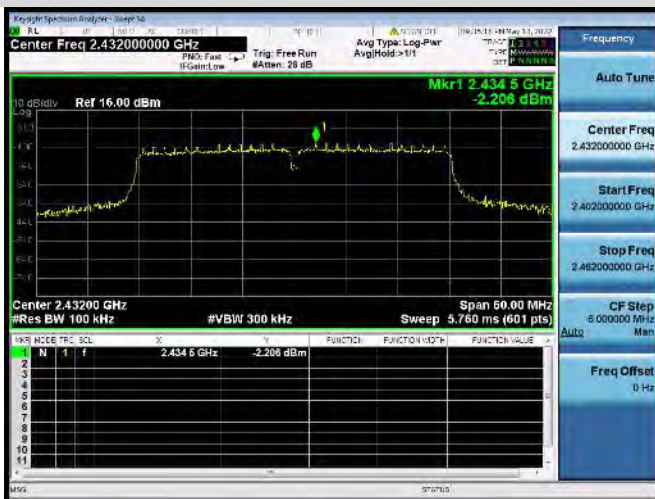
802.11n-40 MHz CHANNEL 4, SPURIOUS
30 MHz ~ 3 GHz



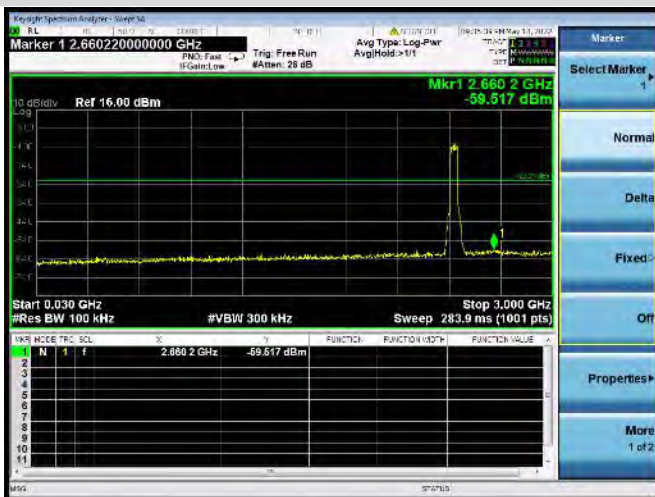
802.11n-40 MHz CHANNEL 4, SPURIOUS
2 GHz ~ 25 GHz



802.11n-40 MHz CHANNEL 5 CARRIER LEVEL



802.11n-40 MHz CHANNEL 5, SPURIOUS
30 MHz ~ 3 GHz



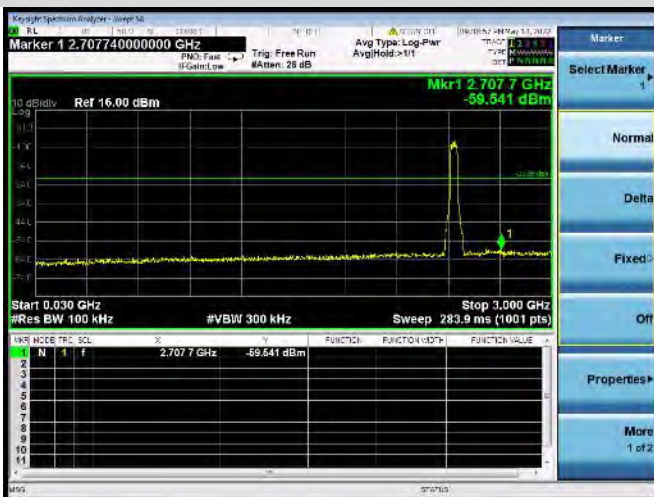
802.11n-40 MHz CHANNEL 5, SPURIOUS
2 GHz ~ 25 GHz



802.11n-40 MHz CHANNEL 6 CARRIER LEVEL



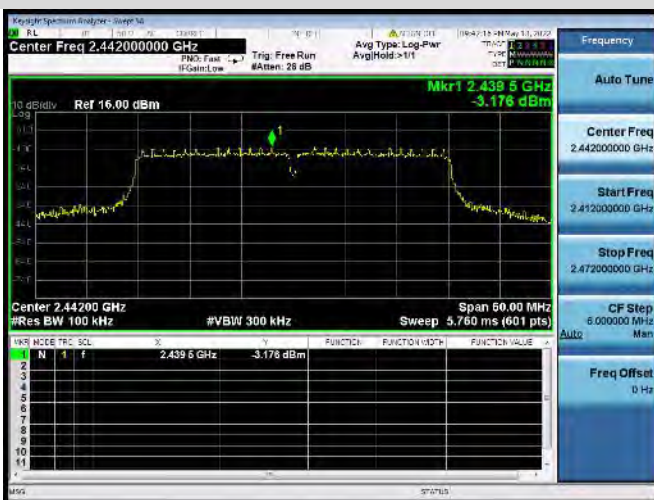
802.11n-40 MHz CHANNEL 6, SPURIOUS
30 MHz ~ 3 GHz



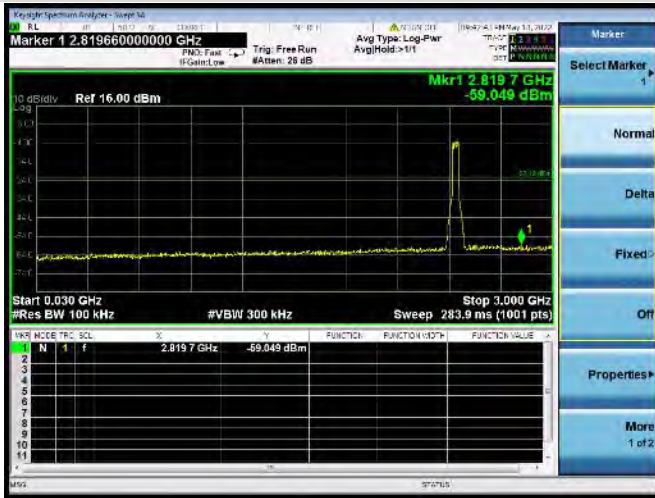
802.11n-40 MHz CHANNEL 6, SPURIOUS
2 GHz ~ 25 GHz



802.11n-40 MHz CHANNEL 7 CARRIER LEVEL



802.11n-40 MHz CHANNEL 7, SPURIOUS
30 MHz ~ 3 GHz



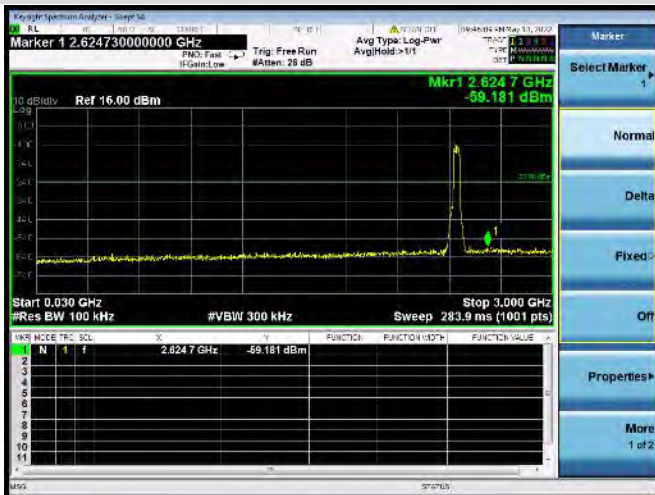
802.11n-40 MHz CHANNEL 7, SPURIOUS
2 GHz ~ 25 GHz



802.11n-40 MHz CHANNEL 8 CARRIER LEVEL



802.11n-40 MHz CHANNEL 8, SPURIOUS
30 MHz ~ 3 GHz



802.11n-40 MHz CHANNEL 8, SPURIOUS
2 GHz ~ 25 GHz



802.11n-40 MHz CHANNEL 9 CARRIER LEVEL



802.11n-40 MHz CHANNEL 9, SPURIOUS
30 MHz ~ 3 GHz



802.11n-40 MHz CHANNEL 9, SPURIOUS
2 GHz ~ 25 GHz



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

Note 1: The 99% OBW of the fundamental emission is without 2 MHz of the authorized band.

Test Data

802.11b Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
1	-39.92	9.08	-10.92	Pass
11	-53.61	9.14	-10.86	Pass

802.11g Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
1	-38.37	0.84	-19.16	Pass
2	-34.52	5.04	-14.96	Pass
10	-43.21	6.15	-13.85	Pass
11	-54.15	-3.16	-23.16	Pass

802.11n-20 MHz Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
1	-38.43	-1.64	-21.64	Pass
2	-36.28	4.04	-15.96	Pass
8	-54.81	3.59	-16.41	Pass
9	-52.70	2.71	-17.29	Pass
10	-50.76	0.82	-19.18	Pass
11	-52.45	-3.94	-23.94	Pass

802.11n-40 MHz Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
3	-41.76	-6.38	-26.38	Pass
4	-42.28	-4.67	-24.67	Pass
5	-44.98	-2.21	-22.21	Pass
7	-52.56	-3.18	-23.18	Pass
8	-52.17	-3.90	-23.90	Pass
9	-50.69	-6.56	-26.56	Pass

Test Plots

802.11b CHANNEL 1, CARRIER LEVEL



802.11b CHANNEL 1, REFERENCE LEVEL



802.11b CHANNEL 1, BAND EDGE



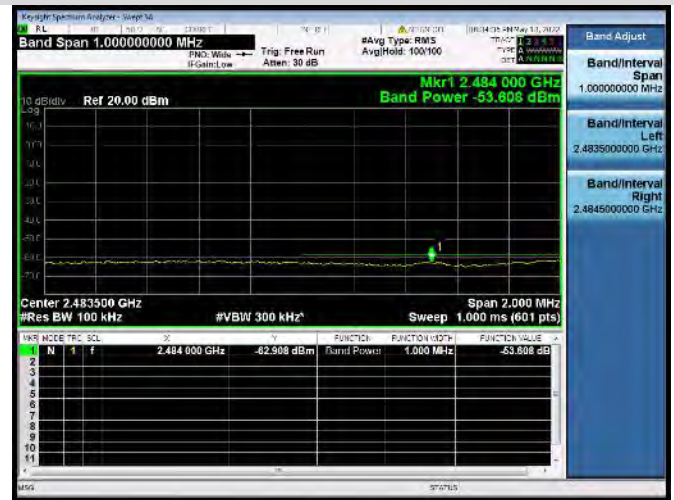
802.11b CHANNEL 11, CARRIER LEVEL



802.11b CHANNEL 11, REFERENCE LEVEL



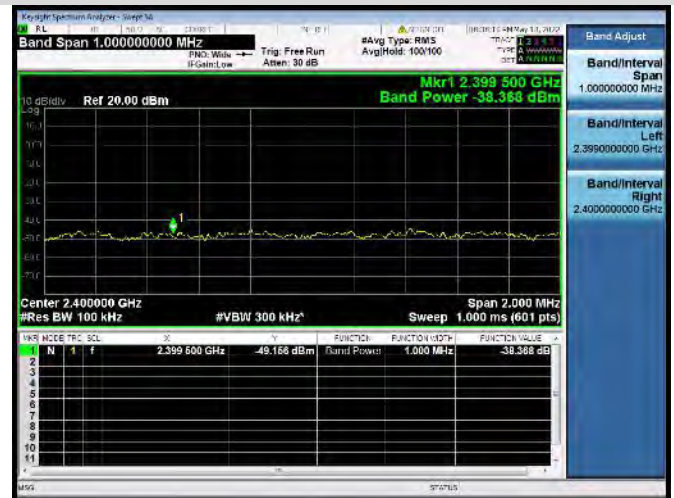
802.11b CHANNEL 11, BAND EDGE



802.11g CHANNEL 1, CARRIER LEVEL



802.11g CHANNEL 1, BAND EDGE



802.11g CHANNEL 1, REFERENCE LEVEL



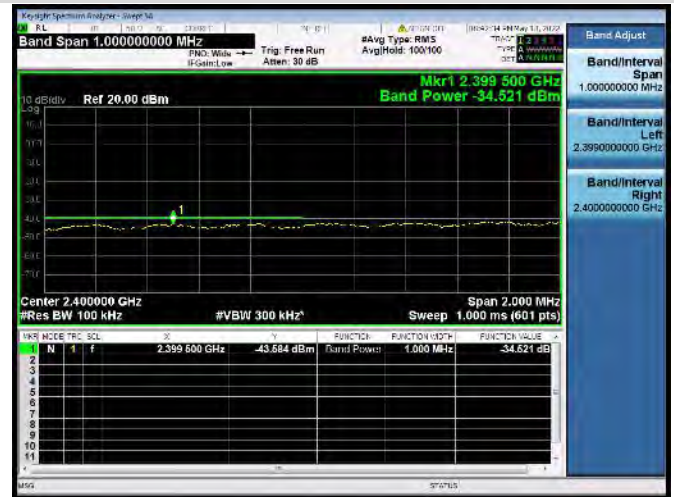
802.11g CHANNEL 2, CARRIER LEVEL



802.11g CHANNEL 2, REFERENCE LEVEL



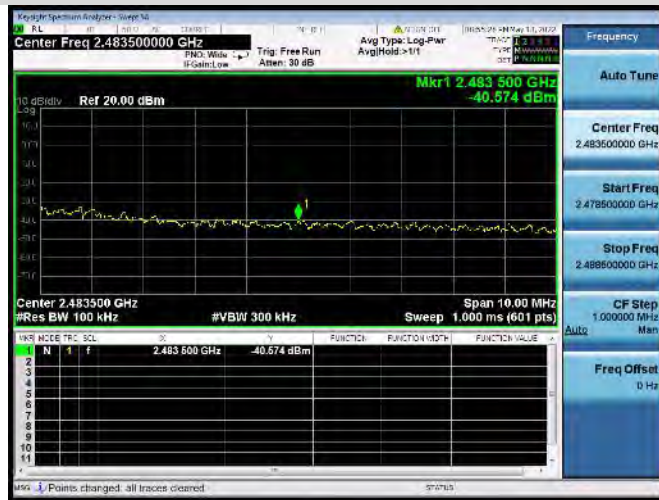
802.11g CHANNEL 2, BAND EDGE



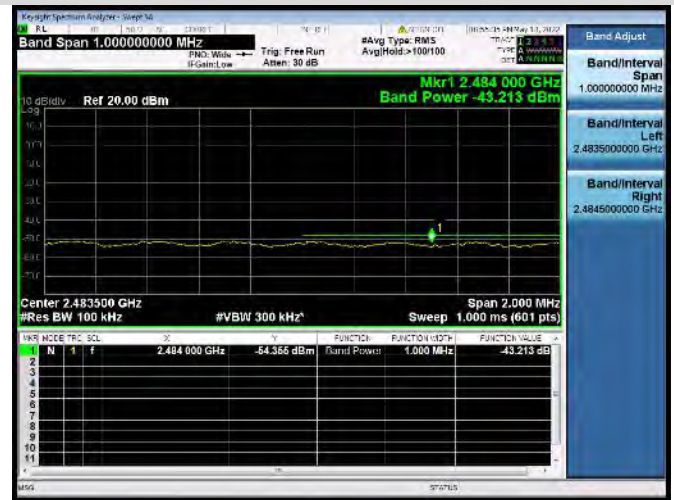
802.11g CHANNEL 10, CARRIER LEVEL



802.11g CHANNEL 10, REFERENCE LEVEL



802.11g CHANNEL 10, BAND EDGE



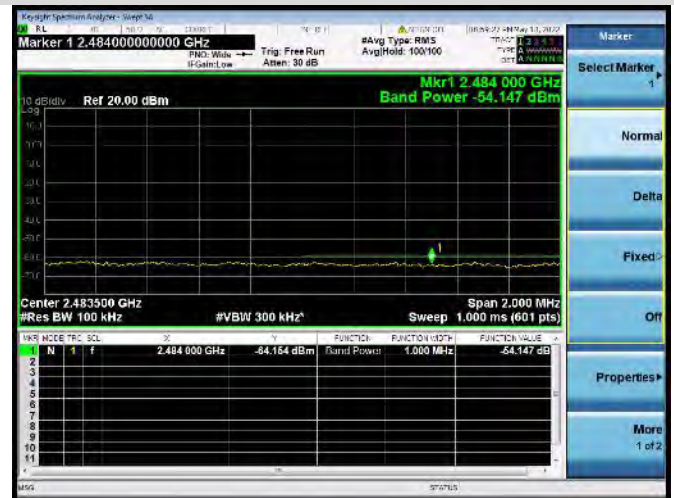
802.11g CHANNEL 11, CARRIER LEVEL



802.11g CHANNEL 11, REFERENCE LEVEL



802.11g CHANNEL 11, BAND EDGE



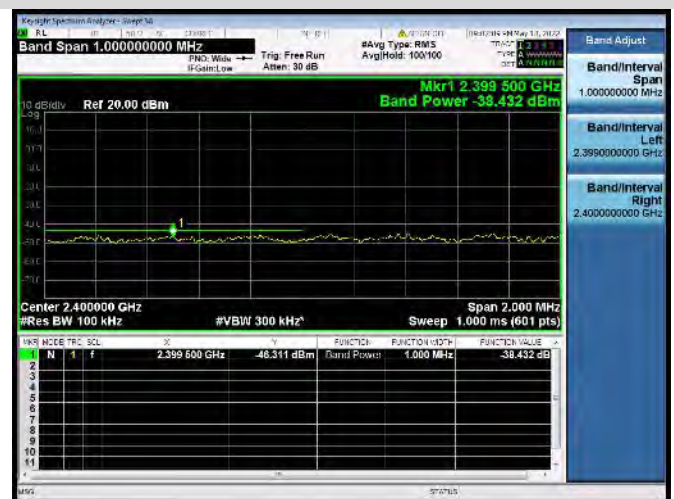
802.11n-20 MHz CHANNEL 1, CARRIER LEVEL



802.11n-20 MHz CHANNEL 1, REFERENCE LEVEL



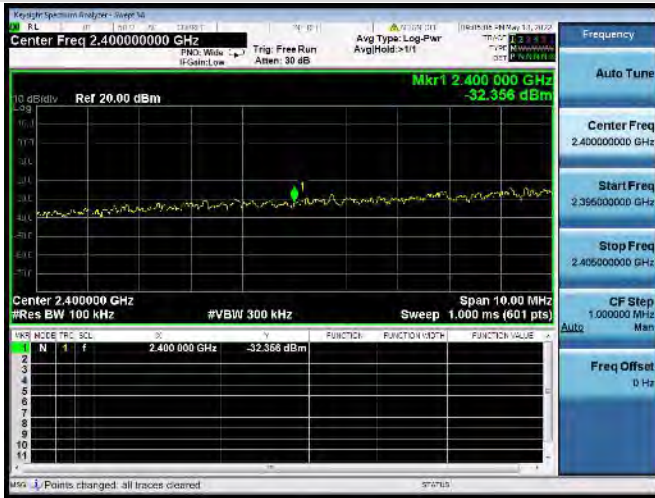
802.11n-20 MHz CHANNEL 1, BAND EDGE



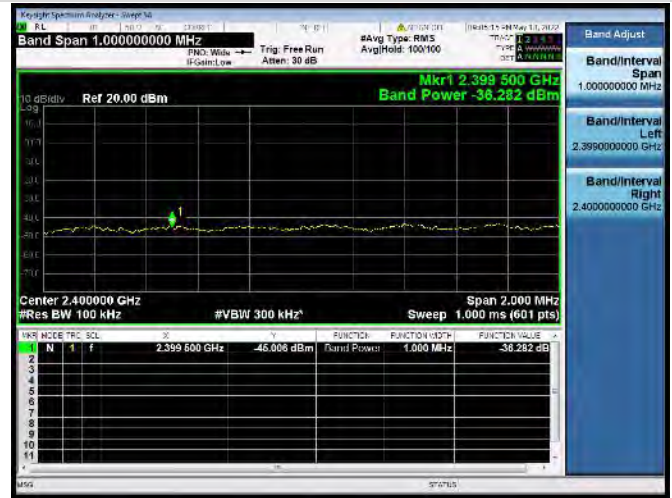
802.11n-20 MHz CHANNEL 2, CARRIER LEVEL



802.11n-20 MHz CHANNEL 2,
REFERENCE LEVEL



802.11n-20 MHz CHANNEL 2, BAND EDGE



802.11n-20 MHz CHANNEL 8, CARRIER LEVEL



802.11n-20 MHz CHANNEL 8, BAND EDGE

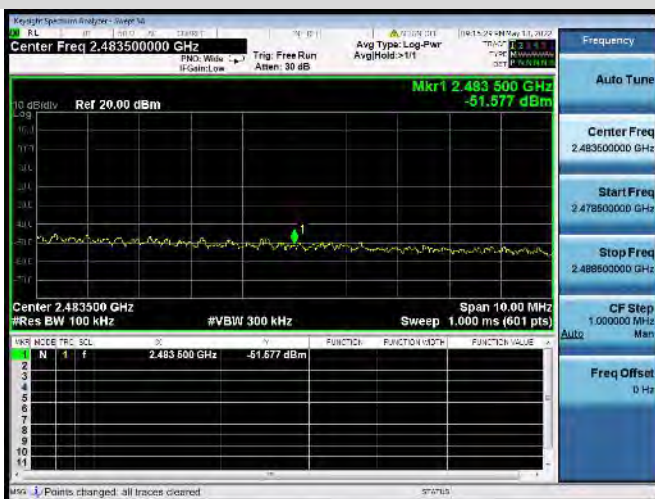
802.11n-20 MHz CHANNEL 8,
REFERENCE LEVEL



802.11n-20 MHz CHANNEL 9, CARRIER LEVEL



802.11n-20 MHz CHANNEL 9, REFERENCE LEVEL



802.11n-20 MHz CHANNEL 9, BAND EDGE



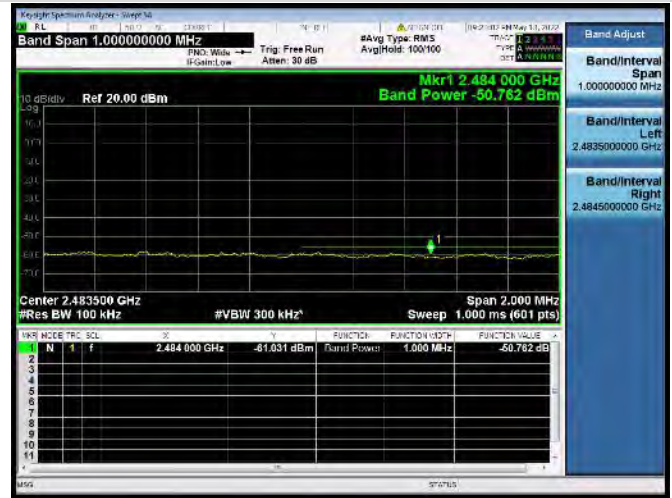
802.11n-20 MHz CHANNEL 10, CARRIER LEVEL



802.11n-20 MHz CHANNEL 10,
REFERENCE LEVEL



802.11n-20 MHz CHANNEL 10, BAND EDGE



802.11n-20 MHz CHANNEL 11, CARRIER LEVEL



802.11n-20 MHz CHANNEL 11,
REFERENCE LEVEL



802.11n-20 MHz CHANNEL 11, BAND EDGE



802.11n-40 MHz CHANNEL 3, CARRIER LEVEL



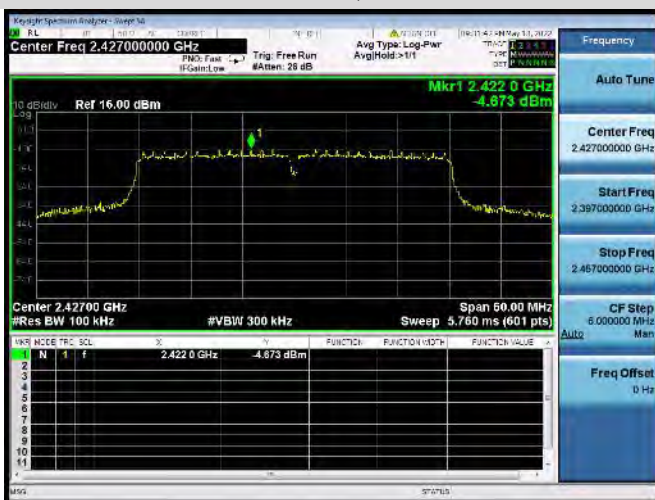
802.11n-40 MHz CHANNEL 3, REFERENCE LEVEL



802.11n-40 MHz CHANNEL 3, BAND EDGE



802.11n-40 MHz CHANNEL 4, CARRIER LEVEL



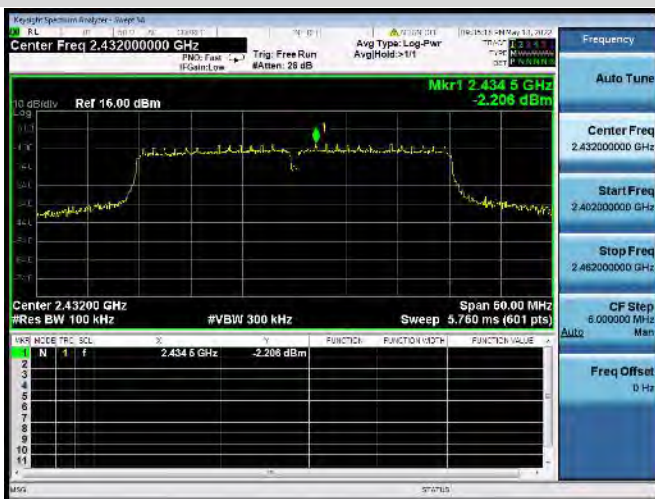
802.11n-40 MHz CHANNEL 4,
REFERENCE LEVEL



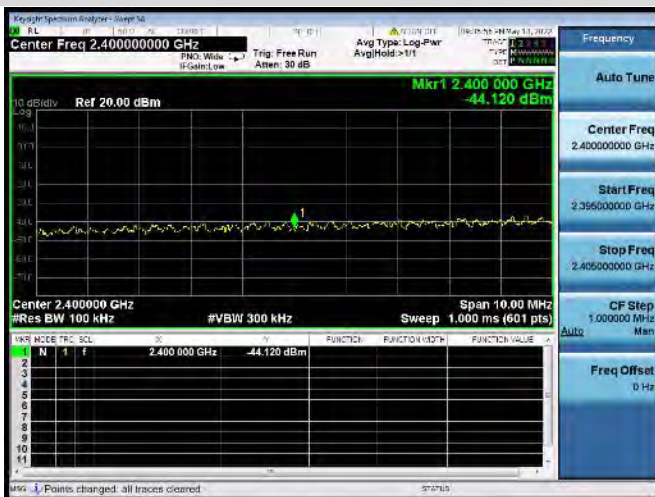
802.11n-40 MHz CHANNEL 4, BAND EDGE



802.11n-40 MHz CHANNEL 5, CARRIER LEVEL



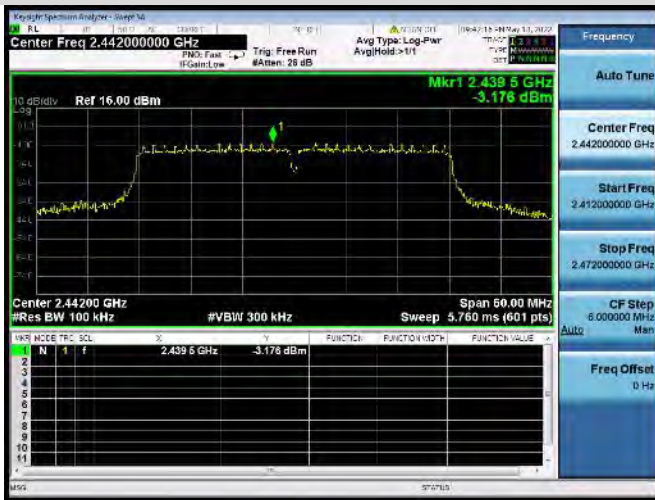
802.11n-40 MHz CHANNEL 5,
REFERENCE LEVEL



802.11n-40 MHz CHANNEL 5, BAND EDGE



802.11n-40 MHz CHANNEL 7, CARRIER LEVEL



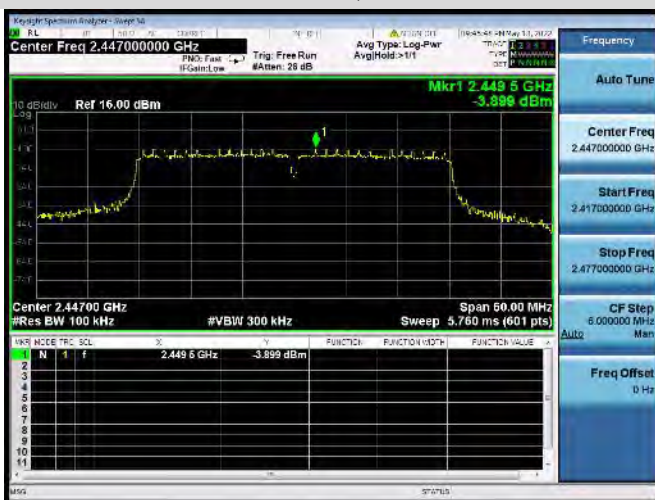
802.11n-40 MHz CHANNEL 7, REFERENCE LEVEL



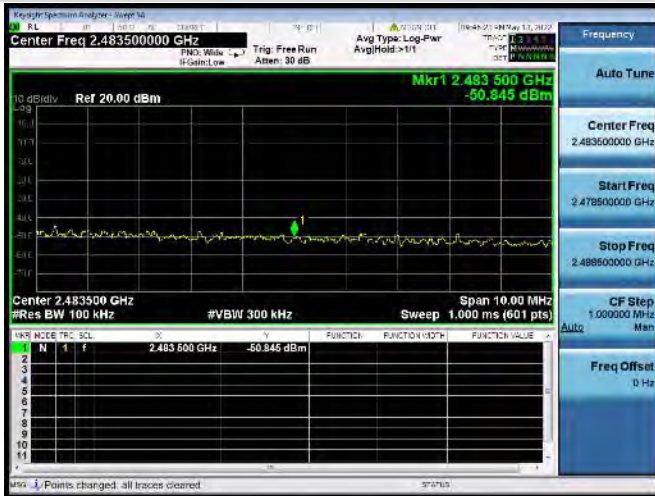
802.11n-40 MHz CHANNEL 7, BAND EDGE



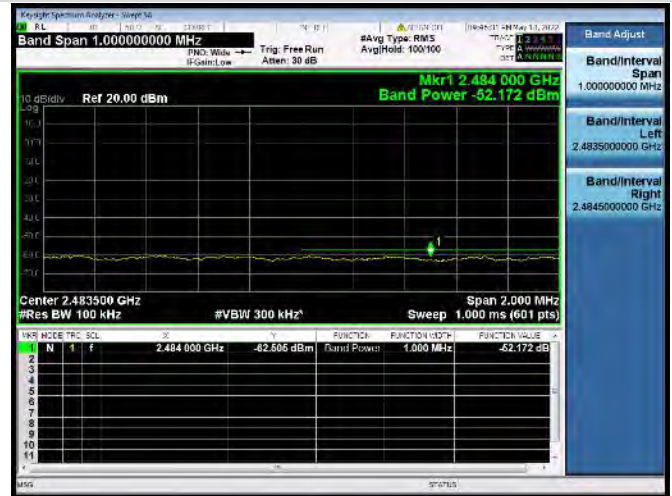
802.11n-40 MHz CHANNEL 8, CARRIER LEVEL



802.11n-40 MHz CHANNEL 8,
REFERENCE LEVEL



802.11n-40 MHz CHANNEL 8, BAND EDGE

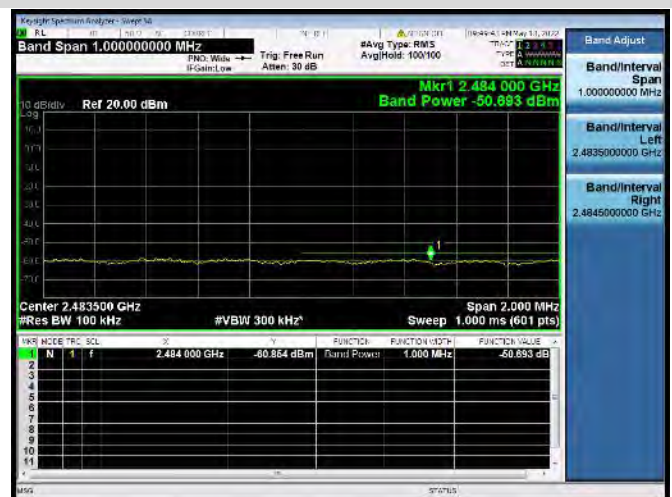


802.11n-40 MHz CHANNEL 9, CARRIER LEVEL



802.11n-40 MHz CHANNEL 9, BAND EDGE

802.11n-40 MHz CHANNEL 9,
REFERENCE LEVEL



A.5 Conducted Emissions

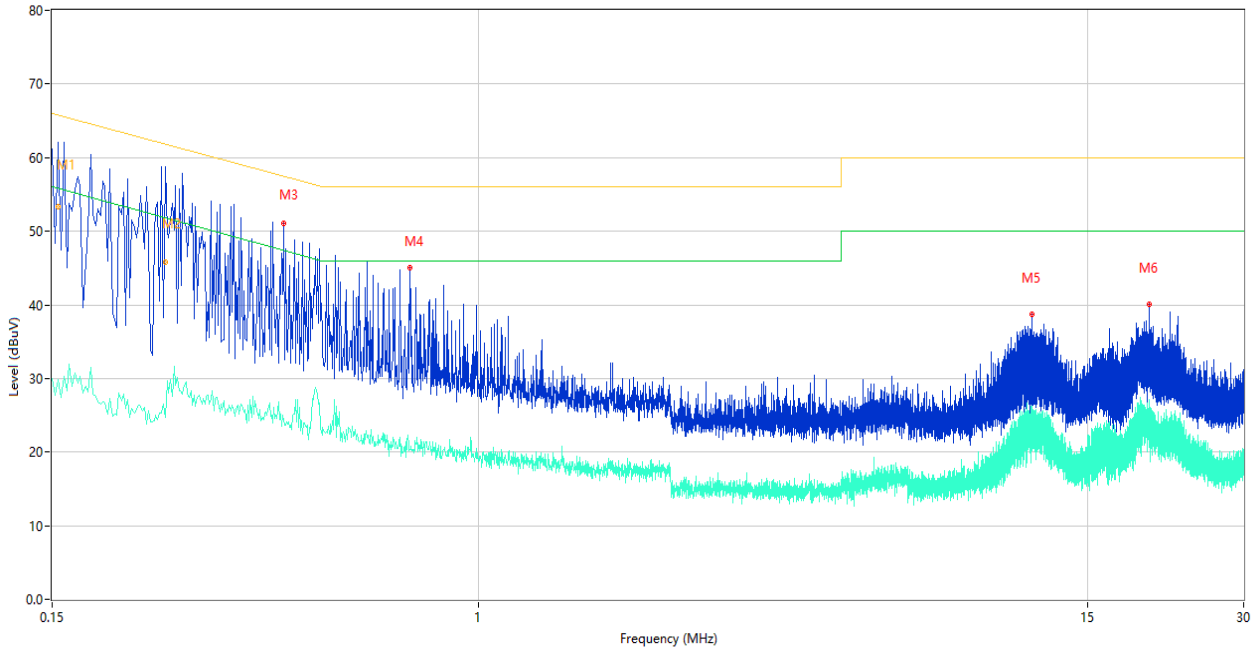
Note ¹: The EUT is working in the Normal link mode. All modes have been tested and normal link mode is worst.

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

Test Data and Plots

PHASE L

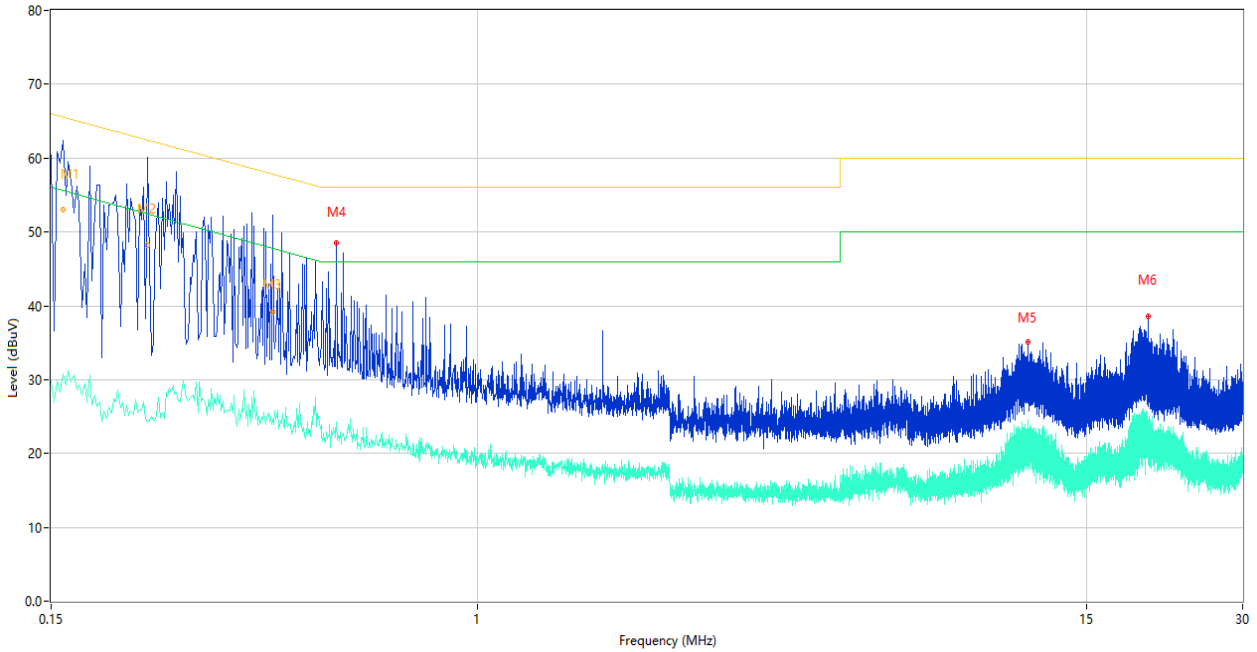
CE Test case_FCC_CE_FCC PART 15B_Class B



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.154	64.36	10.18	65.78	-1.42	Peak	L	N/A
1*	0.154	53.30	10.18	65.78	-12.48	QP	L	Pass
1**	0.154	29.88	10.18	55.78	-25.90	AV	L	Pass
2	0.248	59.82	10.08	61.82	-2.00	Peak	L	N/A
2*	0.248	45.87	10.08	61.82	-15.95	QP	L	Pass
2**	0.248	24.63	10.08	51.82	-27.19	AV	L	Pass
3	0.420	51.03	10.09	57.45	-6.42	Peak	L	Pass
3**	0.420	24.42	10.09	47.45	-23.03	AV	L	Pass
4	0.736	45.07	10.07	56.00	-10.93	Peak	L	Pass
4**	0.736	20.38	10.07	46.00	-25.62	AV	L	Pass
5	11.708	38.71	10.11	60.00	-21.29	Peak	L	Pass
5**	11.708	26.28	10.11	50.00	-23.72	AV	L	Pass
6	19.724	40.12	10.26	60.00	-19.88	Peak	L	Pass
6**	19.724	27.13	10.26	50.00	-22.87	AV	L	Pass

PHASE N

CE Test case_FCC_CE_FCC PART 15B_Class B



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.158	66.03	10.18	65.57	0.46	Peak	N	N/A
1*	0.158	52.99	10.18	65.57	-12.58	QP	N	Pass
1**	0.158	30.74	10.18	55.57	-24.83	AV	N	Pass
2	0.230	68.39	10.09	62.45	5.94	Peak	N	N/A
2*	0.230	48.16	10.09	62.45	-14.29	QP	N	Pass
2**	0.230	24.28	10.09	52.45	-28.17	AV	N	Pass
3	0.402	52.17	10.09	57.81	-5.64	Peak	N	N/A
3*	0.402	39.15	10.09	57.81	-18.66	QP	N	Pass
3**	0.402	24.61	10.09	47.81	-23.20	AV	N	Pass
4	0.534	48.50	10.11	56.00	-7.50	Peak	N	Pass
4**	0.534	24.21	10.11	46.00	-21.79	AV	N	Pass
5	11.534	35.06	10.10	60.00	-24.94	Peak	N	Pass
5**	11.534	21.27	10.10	50.00	-28.73	AV	N	Pass
6	19.684	38.53	10.26	60.00	-21.47	Peak	N	Pass
6**	19.684	21.58	10.26	50.00	-28.42	AV	N	Pass

A.6 Radiated Emission

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

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

Note ³: The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.

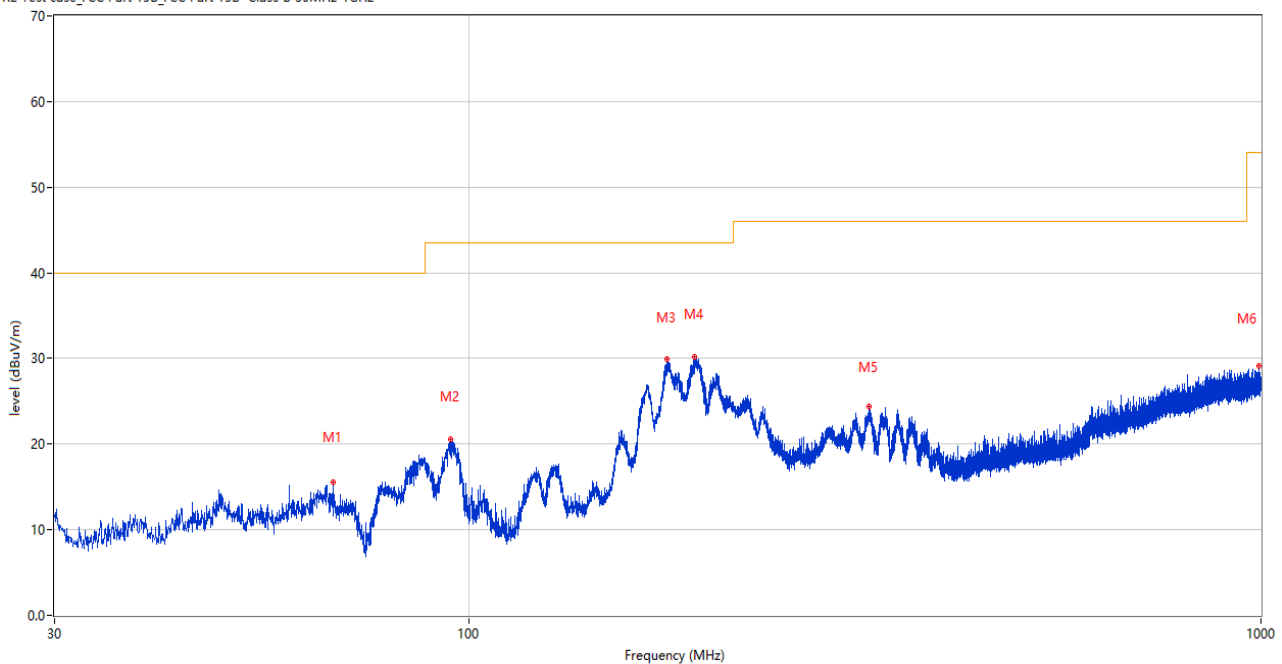
Note ⁴: The EUT is working in the Normal link mode below 1 GHz. All modes have been tested and normal link mode is worst.

Note ⁵: Both model of the charger were tested in this report. The C-P35 (Huntkey) is the main test model, and the C-P35 (Acbel) only retest the below 1GHz in this report.

Test Data and Plots

30 MHz to 1 GHz, ANT H

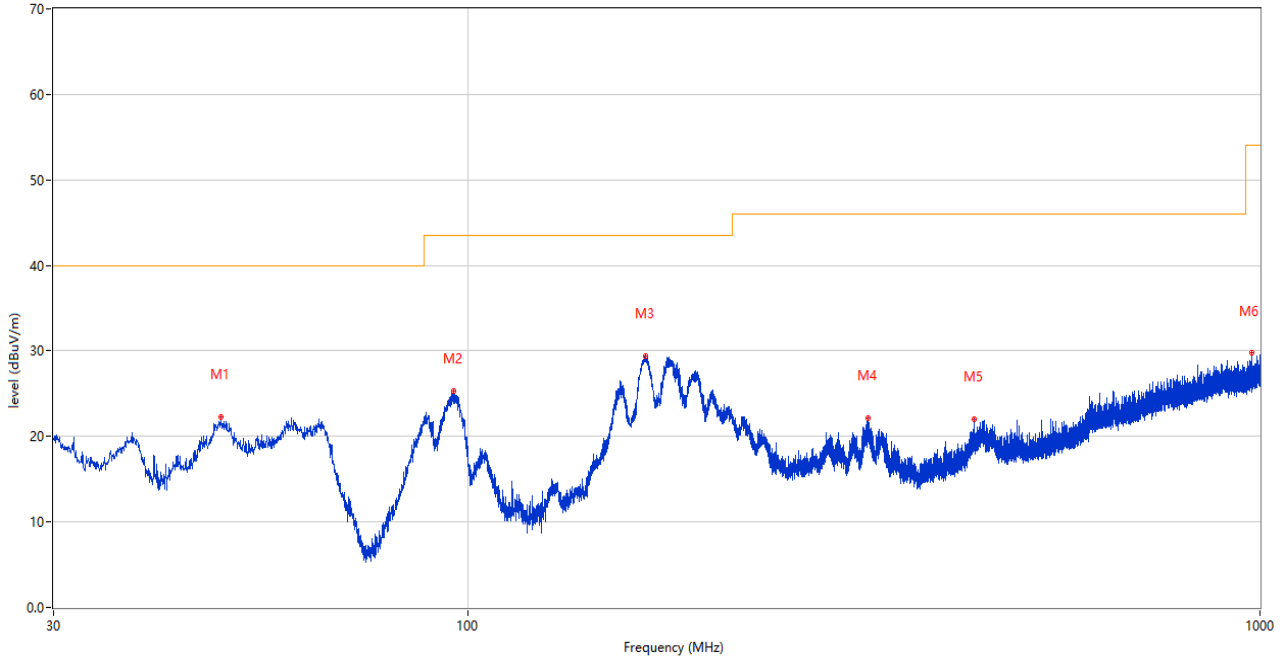
RE Test case_FCC Part 15B_FCC Part 15B Class B 30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	67.442	15.51	-28.28	40.0	-24.49	Peak	319.00	200	Horizontal	Pass
2	94.893	20.62	-27.59	43.5	-22.88	Peak	277.00	200	Horizontal	Pass
3	177.973	29.86	-28.67	43.5	-13.64	Peak	156.00	200	Horizontal	Pass
4	192.863	30.12	-27.08	43.5	-13.38	Peak	78.00	100	Horizontal	Pass
5	319.884	24.35	-23.24	46.0	-21.65	Peak	23.00	100	Horizontal	Pass
6	993.550	29.12	-8.41	54.0	-24.88	Peak	259.00	100	Horizontal	Pass

30 MHz to 1 GHz, ANT V

RE Test case_FCC Part 15B_FCC Part 15B Class B 30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	48.818	22.25	-25.37	40.0	-17.75	Peak	346.00	100	Vertical	Pass
2	96.105	25.33	-27.36	43.5	-18.17	Peak	45.00	100	Vertical	Pass
3	167.546	29.40	-29.18	43.5	-14.10	Peak	353.00	100	Vertical	Pass
4	320.515	22.17	-23.11	46.0	-23.83	Peak	83.00	100	Vertical	Pass
5	435.266	21.97	-20.20	46.0	-24.03	Peak	165.00	100	Vertical	Pass
6	976.235	29.73	-8.70	54.0	-24.27	Peak	360.00	100	Vertical	Pass

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

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

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1600.000	42.46	-17.76	74.0	-31.54	Peak	324.00	150	Horizontal	Pass
1**	1600.000	37.65	-17.76	54.0	-16.35	AV	324.00	150	Horizontal	Pass
2	2410.400	105.22	-13.50	74.0	31.22	Peak	182.00	150	Horizontal	N/A
2**	2410.400	102.34	-13.50	54.0	48.34	AV	182.00	150	Horizontal	N/A
3	4824.250	47.02	-3.03	74.0	-26.98	Peak	12.00	150	Horizontal	Pass
3**	4824.250	42.33	-3.03	54.0	-11.67	AV	12.00	150	Horizontal	Pass
4	7824.000	53.24	1.95	74.0	-20.76	Peak	275.00	150	Horizontal	Pass
4**	7824.000	44.16	1.95	54.0	-9.84	AV	275.00	150	Horizontal	Pass
5	11795.963	49.48	-3.57	74.0	-24.52	Peak	353.00	150	Horizontal	Pass
5**	11795.963	40.32	-3.57	54.0	-13.68	AV	353.00	150	Horizontal	Pass
6	16401.901	52.89	0.31	74.0	-21.11	Peak	43.00	150	Horizontal	Pass
6**	16401.901	43.94	0.31	54.0	-10.06	AV	43.00	150	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1599.500	42.42	-17.70	74.0	-31.58	Peak	241.00	150	Vertical	Pass
1**	1599.500	34.49	-17.70	54.0	-19.51	AV	241.00	150	Vertical	Pass
2	2412.000	90.91	-13.41	74.0	16.91	Peak	127.00	150	Vertical	N/A
2**	2412.000	86.37	-13.41	54.0	32.37	AV	127.00	150	Vertical	N/A
3	5192.000	50.65	-2.75	74.0	-23.35	Peak	293.00	150	Vertical	Pass
3**	5192.000	41.56	-2.75	54.0	-12.44	AV	293.00	150	Vertical	Pass
4	7820.500	53.62	1.88	74.0	-20.38	Peak	78.00	150	Vertical	Pass
4**	7820.500	44.76	1.88	54.0	-9.24	AV	78.00	150	Vertical	Pass
5	11411.687	49.77	-4.13	74.0	-24.23	Peak	109.00	150	Vertical	Pass
5**	11411.687	39.51	-4.13	54.0	-14.49	AV	109.00	150	Vertical	Pass
6	17308.838	53.13	1.99	74.0	-20.87	Peak	54.00	150	Vertical	Pass
6**	17308.838	43.52	1.99	54.0	-10.48	AV	54.00	150	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11b Channel 6

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1599.800	42.79	-17.74	74.0	-31.21	Peak	0.00	150	Horizontal	Pass
1**	1599.800	35.64	-17.74	54.0	-18.36	AV	0.00	150	Horizontal	Pass
2	2438.400	105.79	-12.40	74.0	31.79	Peak	168.00	150	Horizontal	N/A
2**	2438.400	102.96	-12.40	54.0	48.96	AV	168.00	150	Horizontal	N/A
3	4874.250	48.30	-3.64	74.0	-25.70	Peak	197.00	150	Horizontal	Pass
3**	4874.250	43.33	-3.64	54.0	-10.67	AV	197.00	150	Horizontal	Pass
4	7141.250	53.81	0.39	74.0	-20.19	Peak	89.00	150	Horizontal	Pass
4**	7141.250	43.29	0.39	54.0	-10.71	AV	89.00	150	Horizontal	Pass
5	11441.138	49.83	-3.93	74.0	-24.17	Peak	161.00	150	Horizontal	Pass
5**	11441.138	40.22	-3.93	54.0	-13.78	AV	161.00	150	Horizontal	Pass
6	16784.625	53.56	0.43	74.0	-20.44	Peak	256.00	150	Horizontal	Pass
6**	16784.625	42.68	0.43	54.0	-11.32	AV	256.00	150	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11b Channel 6

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1600.000	43.37	-17.76	74.0	-30.63	Peak	327.00	150	Vertical	Pass
1**	1600.000	37.82	-17.76	54.0	-16.18	AV	327.00	150	Vertical	Pass
2	2435.400	92.25	-12.08	74.0	18.25	Peak	205.00	150	Vertical	N/A
2**	2435.400	89.32	-12.08	54.0	35.32	AV	205.00	150	Vertical	N/A
3	5193.250	51.04	-2.88	74.0	-22.96	Peak	322.00	150	Vertical	Pass
3**	5193.250	41.88	-2.88	54.0	-12.12	AV	322.00	150	Vertical	Pass
4	7844.000	53.89	1.46	74.0	-20.11	Peak	61.00	150	Vertical	Pass
4**	7844.000	44.66	1.46	54.0	-9.34	AV	61.00	150	Vertical	Pass
5	11291.750	49.49	-4.04	74.0	-24.51	Peak	88.00	150	Vertical	Pass
5**	11291.750	39.28	-4.04	54.0	-14.72	AV	88.00	150	Vertical	Pass
6	16532.625	53.04	0.02	74.0	-20.96	Peak	353.00	150	Vertical	Pass
6**	16532.625	43.38	0.02	54.0	-10.62	AV	353.00	150	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11b Channel 11

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1599.600	43.10	-17.71	74.0	-30.90	Peak	119.00	150	Horizontal	Pass
1**	1599.600	36.37	-17.71	54.0	-17.63	AV	119.00	150	Horizontal	Pass
2	2460.300	105.05	-12.62	74.0	31.05	Peak	171.00	150	Horizontal	N/A
2**	2460.300	102.13	-12.62	54.0	48.13	AV	171.00	150	Horizontal	N/A
3	4924.250	47.64	-3.74	74.0	-26.36	Peak	341.00	150	Horizontal	Pass
3**	4924.250	43.14	-3.74	54.0	-10.86	AV	341.00	150	Horizontal	Pass
4	7833.500	54.53	2.26	74.0	-19.47	Peak	164.00	150	Horizontal	Pass
4**	7833.500	44.50	2.26	54.0	-9.50	AV	164.00	150	Horizontal	Pass
5	12437.687	49.50	-2.34	74.0	-24.50	Peak	6.00	150	Horizontal	Pass
5**	12437.687	40.01	-2.34	54.0	-13.99	AV	6.00	150	Horizontal	Pass
6	17781.074	54.74	2.96	74.0	-19.26	Peak	317.00	150	Horizontal	Pass
6**	17781.074	44.11	2.96	54.0	-9.89	AV	317.00	150	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11b Channel 11

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1599.900	43.09	-17.75	74.0	-30.91	Peak	23.00	150	Vertical	Pass
1**	1599.900	37.77	-17.75	54.0	-16.23	AV	23.00	150	Vertical	Pass
2	2463.400	90.56	-12.68	74.0	16.56	Peak	199.00	150	Vertical	N/A
2**	2463.400	87.71	-12.68	54.0	33.71	AV	199.00	150	Vertical	N/A
3	5204.500	50.50	-3.54	74.0	-23.50	Peak	180.00	150	Vertical	Pass
3**	5204.500	41.60	-3.54	54.0	-12.40	AV	180.00	150	Vertical	Pass
4	7451.500	53.66	0.83	74.0	-20.34	Peak	105.00	150	Vertical	Pass
4**	7451.500	43.98	0.83	54.0	-10.02	AV	105.00	150	Vertical	Pass
5	13382.887	50.76	-0.13	74.0	-23.24	Peak	183.00	150	Vertical	Pass
5**	13382.887	41.25	-0.13	54.0	-12.75	AV	183.00	150	Vertical	Pass
6	16898.551	53.80	1.50	74.0	-20.20	Peak	17.00	150	Vertical	Pass
6**	16898.551	44.82	1.50	54.0	-9.18	AV	17.00	150	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1599.900	43.84	-17.75	74.0	-30.16	Peak	29.00	150	Horizontal	Pass
1**	1599.900	38.13	-17.75	54.0	-15.87	AV	29.00	150	Horizontal	Pass
2	2404.800	107.47	-13.17	74.0	33.47	Peak	181.00	150	Horizontal	N/A
2**	2404.800	99.74	-13.17	54.0	45.74	AV	181.00	150	Horizontal	N/A
3	5188.250	51.03	-2.55	74.0	-22.97	Peak	76.00	150	Horizontal	Pass
3**	5188.250	41.49	-2.55	54.0	-12.51	AV	76.00	150	Horizontal	Pass
4	7833.250	54.17	2.27	74.0	-19.83	Peak	19.00	150	Horizontal	Pass
4**	7833.250	45.15	2.27	54.0	-8.85	AV	19.00	150	Horizontal	Pass
5	10696.575	49.24	-4.79	74.0	-24.76	Peak	52.00	150	Horizontal	Pass
5**	10696.575	39.78	-4.79	54.0	-14.22	AV	52.00	150	Horizontal	Pass
6	17571.600	54.33	3.22	74.0	-19.67	Peak	66.00	150	Horizontal	Pass
6**	17571.600	43.61	3.22	54.0	-10.39	AV	66.00	150	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1600.100	43.80	-17.77	74.0	-30.20	Peak	163.00	150	Vertical	Pass
1**	1600.100	39.14	-17.77	54.0	-14.86	AV	163.00	150	Vertical	Pass
2	2415.700	91.64	-13.34	74.0	17.64	Peak	127.00	150	Vertical	N/A
2**	2415.700	84.17	-13.34	54.0	30.17	AV	127.00	150	Vertical	N/A
3	5191.750	50.86	-2.73	74.0	-23.14	Peak	78.00	150	Vertical	Pass
3**	5191.750	41.84	-2.73	54.0	-12.16	AV	78.00	150	Vertical	Pass
4	7839.500	53.82	1.95	74.0	-20.18	Peak	359.00	150	Vertical	Pass
4**	7839.500	44.83	1.95	54.0	-9.17	AV	359.00	150	Vertical	Pass
5	13433.813	52.53	0.10	74.0	-21.47	Peak	162.00	150	Vertical	Pass
5**	13433.813	41.44	0.10	54.0	-12.56	AV	162.00	150	Vertical	Pass
6	16824.787	53.26	0.75	74.0	-20.74	Peak	151.00	150	Vertical	Pass
6**	16824.787	43.05	0.75	54.0	-10.95	AV	151.00	150	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11g Channel 2

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1599.900	43.73	-17.75	74.0	-30.27	Peak	46.00	150	Horizontal	Pass
1**	1599.900	37.79	-17.75	54.0	-16.21	AV	46.00	150	Horizontal	Pass
2	2413.400	106.32	-13.42	74.0	32.32	Peak	182.00	150	Horizontal	N/A
2**	2413.400	98.67	-13.42	54.0	44.67	AV	182.00	150	Horizontal	N/A
3	5449.250	50.45	-2.79	74.0	-23.55	Peak	298.00	150	Horizontal	Pass
3**	5449.250	40.12	-2.79	54.0	-13.88	AV	298.00	150	Horizontal	Pass
4	7817.750	53.29	1.66	74.0	-20.71	Peak	273.00	150	Horizontal	Pass
4**	7817.750	44.27	1.66	54.0	-9.73	AV	273.00	150	Horizontal	Pass
5	11774.588	49.14	-3.76	74.0	-24.86	Peak	180.00	150	Horizontal	Pass
5**	11774.588	39.97	-3.76	54.0	-14.03	AV	180.00	150	Horizontal	Pass
6	16904.063	53.49	1.45	74.0	-20.51	Peak	253.00	150	Horizontal	Pass
6**	16904.063	43.75	1.45	54.0	-10.25	AV	253.00	150	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11g Channel 2

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1599.800	43.72	-17.74	74.0	-30.28	Peak	181.00	150	Vertical	Pass
1**	1599.800	37.52	-17.74	54.0	-16.48	AV	181.00	150	Vertical	Pass
2	2414.400	92.35	-13.40	74.0	18.35	Peak	157.00	150	Vertical	N/A
2**	2414.400	85.13	-13.40	54.0	31.13	AV	157.00	150	Vertical	N/A
3	4805.250	48.80	-4.00	74.0	-25.20	Peak	11.00	150	Vertical	Pass
3**	4805.250	39.10	-4.00	54.0	-14.90	AV	11.00	150	Vertical	Pass
4	7848.000	53.39	1.06	74.0	-20.61	Peak	323.00	150	Vertical	Pass
4**	7848.000	44.01	1.06	54.0	-9.99	AV	323.00	150	Vertical	Pass
5	10813.425	48.64	-5.18	74.0	-25.36	Peak	67.00	150	Vertical	Pass
5**	10813.425	39.68	-5.18	54.0	-14.32	AV	67.00	150	Vertical	Pass
6	16513.463	52.37	0.01	74.0	-21.63	Peak	0.00	150	Vertical	Pass
6**	16513.463	43.15	0.01	54.0	-10.85	AV	0.00	150	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11g Channel 6

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1599.900	43.19	-17.75	74.0	-30.81	Peak	280.00	150	Horizontal	Pass
1**	1599.900	38.36	-17.75	54.0	-15.64	AV	280.00	150	Horizontal	Pass
2	2440.600	107.47	-12.34	74.0	33.47	Peak	171.00	150	Horizontal	N/A
2**	2440.600	100.01	-12.34	54.0	46.01	AV	171.00	150	Horizontal	N/A
3	5184.750	50.63	-2.30	74.0	-23.37	Peak	243.00	150	Horizontal	Pass
3**	5184.750	41.94	-2.30	54.0	-12.06	AV	243.00	150	Horizontal	Pass
4	7833.000	54.08	2.28	74.0	-19.92	Peak	12.00	150	Horizontal	Pass
4**	7833.000	44.59	2.28	54.0	-9.41	AV	12.00	150	Horizontal	Pass
5	11314.312	49.68	-4.14	74.0	-24.32	Peak	227.00	150	Horizontal	Pass
5**	11314.312	39.70	-4.14	54.0	-14.30	AV	227.00	150	Horizontal	Pass
6	16893.038	53.71	1.46	74.0	-20.29	Peak	314.00	150	Horizontal	Pass
6**	16893.038	44.60	1.46	54.0	-9.40	AV	314.00	150	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11g Channel 6

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1600.000	43.37	-17.76	74.0	-30.63	Peak	196.00	150	Vertical	Pass
1**	1600.000	39.02	-17.76	54.0	-14.98	AV	196.00	150	Vertical	Pass
2	2435.100	92.87	-12.08	74.0	18.87	Peak	201.00	150	Vertical	N/A
2**	2435.100	85.28	-12.08	54.0	31.28	AV	201.00	150	Vertical	N/A
3	5182.500	50.69	-2.10	74.0	-23.31	Peak	152.00	150	Vertical	Pass
3**	5182.500	42.22	-2.10	54.0	-11.78	AV	152.00	150	Vertical	Pass
4	7835.000	54.24	2.19	74.0	-19.76	Peak	95.00	150	Vertical	Pass
4**	7835.000	45.09	2.19	54.0	-8.91	AV	95.00	150	Vertical	Pass
5	10579.013	48.95	-4.32	74.0	-25.05	Peak	190.00	150	Vertical	Pass
5**	10579.013	39.22	-4.32	54.0	-14.78	AV	190.00	150	Vertical	Pass
6	16828.988	54.00	0.81	74.0	-20.00	Peak	48.00	150	Vertical	Pass
6**	16828.988	44.03	0.81	54.0	-9.97	AV	48.00	150	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11g Channel 10

No.	Frequency (MHz)	Results (dBUV/m)	Factor (dB)	Limit (dBUV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1600.100	43.29	-17.77	74.0	-30.71	Peak	332.00	150	Horizontal	Pass
1**	1600.100	38.13	-17.77	54.0	-15.87	AV	332.00	150	Horizontal	Pass
2	2452.100	107.01	-12.82	74.0	33.01	Peak	176.00	150	Horizontal	N/A
2**	2452.100	99.51	-12.82	54.0	45.51	AV	176.00	150	Horizontal	N/A
3	5183.000	50.39	-2.08	74.0	-23.61	Peak	201.00	150	Horizontal	Pass
3**	5183.000	42.10	-2.08	54.0	-11.90	AV	201.00	150	Horizontal	Pass
4	7458.750	53.41	1.15	74.0	-20.59	Peak	357.00	150	Horizontal	Pass
4**	7458.750	43.90	1.15	54.0	-10.10	AV	357.00	150	Horizontal	Pass
5	11181.550	48.92	-4.18	74.0	-25.08	Peak	19.00	150	Horizontal	Pass
5**	11181.550	39.57	-4.18	54.0	-14.43	AV	19.00	150	Horizontal	Pass
6	16904.324	53.71	1.45	74.0	-20.29	Peak	209.00	150	Horizontal	Pass
6**	16904.324	45.83	1.45	54.0	-8.17	AV	209.00	150	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11g Channel 10

No.	Frequency (MHz)	Results (dBUV/m)	Factor (dB)	Limit (dBUV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1600.000	42.96	-17.76	74.0	-31.04	Peak	133.00	150	Vertical	Pass
1**	1600.000	38.49	-17.76	54.0	-15.51	AV	133.00	150	Vertical	Pass
2	2450.700	92.69	-12.75	74.0	18.69	Peak	155.00	150	Vertical	N/A
2**	2450.700	84.80	-12.75	54.0	30.80	AV	155.00	150	Vertical	N/A
3	5169.250	50.75	-3.04	74.0	-23.25	Peak	135.00	150	Vertical	Pass
3**	5169.250	40.49	-3.04	54.0	-13.51	AV	135.00	150	Vertical	Pass
4	7838.500	53.09	2.01	74.0	-20.91	Peak	281.00	150	Vertical	Pass
4**	7838.500	44.67	2.01	54.0	-9.33	AV	281.00	150	Vertical	Pass
5	12282.599	49.95	-2.60	74.0	-24.05	Peak	19.00	150	Vertical	Pass
5**	12282.599	39.64	-2.60	54.0	-14.36	AV	19.00	150	Vertical	Pass
6	16523.963	53.95	0.01	74.0	-20.05	Peak	44.00	150	Vertical	Pass
6**	16523.963	43.73	0.01	54.0	-10.27	AV	44.00	150	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11g Channel 11

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1599.900	43.62	-17.75	74.0	-30.38	Peak	261.00	150	Horizontal	Pass
1**	1599.900	38.61	-17.75	54.0	-15.39	AV	261.00	150	Horizontal	Pass
2	2455.000	106.06	-13.04	74.0	32.06	Peak	196.00	150	Horizontal	N/A
2**	2455.000	98.86	-13.04	54.0	44.86	AV	196.00	150	Horizontal	N/A
3	5154.750	51.10	-3.60	74.0	-22.90	Peak	174.00	150	Horizontal	Pass
3**	5154.750	40.88	-3.60	54.0	-13.12	AV	174.00	150	Horizontal	Pass
4	7841.000	53.53	1.76	74.0	-20.47	Peak	273.00	150	Horizontal	Pass
4**	7841.000	44.81	1.76	54.0	-9.19	AV	273.00	150	Horizontal	Pass
5	11780.525	49.49	-3.71	74.0	-24.51	Peak	295.00	150	Horizontal	Pass
5**	11780.525	40.09	-3.71	54.0	-13.91	AV	295.00	150	Horizontal	Pass
6	17792.887	54.55	3.13	74.0	-19.45	Peak	124.00	150	Horizontal	Pass
6**	17792.887	46.45	3.13	54.0	-7.55	AV	124.00	150	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11g Channel 11

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1600.200	43.82	-17.78	74.0	-30.18	Peak	212.00	150	Vertical	Pass
1**	1600.200	38.60	-17.78	54.0	-15.40	AV	212.00	150	Vertical	Pass
2	2457.700	90.23	-12.66	74.0	16.23	Peak	158.00	150	Vertical	N/A
2**	2457.700	82.23	-12.66	54.0	28.23	AV	158.00	150	Vertical	N/A
3	5187.750	50.72	-2.50	74.0	-23.28	Peak	275.00	150	Vertical	Pass
3**	5187.750	41.35	-2.50	54.0	-12.65	AV	275.00	150	Vertical	Pass
4	7846.000	53.96	1.29	74.0	-20.04	Peak	46.00	150	Vertical	Pass
4**	7846.000	44.78	1.29	54.0	-9.22	AV	46.00	150	Vertical	Pass
5	11788.125	50.09	-3.64	74.0	-23.91	Peak	226.00	150	Vertical	Pass
5**	11788.125	41.18	-3.64	54.0	-12.82	AV	226.00	150	Vertical	Pass
6	17297.814	53.82	2.01	74.0	-20.18	Peak	0.00	150	Vertical	Pass
6**	17297.814	44.67	2.01	54.0	-9.33	AV	0.00	150	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1600.100	43.27	-17.77	74.0	-30.73	Peak	127.00	150	Horizontal	Pass
1**	1600.100	38.45	-17.77	54.0	-15.55	AV	127.00	150	Horizontal	Pass
2	2405.500	107.45	-13.11	74.0	33.45	Peak	184.00	150	Horizontal	N/A
2**	2405.500	100.04	-13.11	54.0	46.04	AV	184.00	150	Horizontal	N/A
3	5317.500	51.24	-3.38	74.0	-22.76	Peak	46.00	150	Horizontal	Pass
3**	5317.500	41.28	-3.38	54.0	-12.72	AV	46.00	150	Horizontal	Pass
4	7830.250	53.93	1.97	74.0	-20.07	Peak	288.00	150	Horizontal	Pass
4**	7830.250	44.48	1.97	54.0	-9.52	AV	288.00	150	Horizontal	Pass
5	11186.537	49.22	-4.15	74.0	-24.78	Peak	166.00	150	Horizontal	Pass
5**	11186.537	39.58	-4.15	54.0	-14.42	AV	166.00	150	Horizontal	Pass
6	16910.099	53.53	1.35	74.0	-20.47	Peak	88.00	150	Horizontal	Pass
6**	16910.099	44.21	1.35	54.0	-9.79	AV	88.00	150	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1600.000	42.76	-17.76	74.0	-31.24	Peak	354.00	150	Vertical	Pass
1**	1600.000	38.65	-17.76	54.0	-15.35	AV	354.00	150	Vertical	Pass
2	2404.100	95.07	-13.23	74.0	21.07	Peak	153.00	150	Vertical	N/A
2**	2404.100	86.40	-13.23	54.0	32.40	AV	153.00	150	Vertical	N/A
3	5357.000	51.35	-3.17	74.0	-22.65	Peak	288.00	150	Vertical	Pass
3**	5357.000	40.09	-3.17	54.0	-13.91	AV	288.00	150	Vertical	Pass
4	7840.250	53.42	1.85	74.0	-20.58	Peak	337.00	150	Vertical	Pass
4**	7840.250	45.16	1.85	54.0	-8.84	AV	337.00	150	Vertical	Pass
5	11431.400	49.00	-4.00	74.0	-25.00	Peak	192.00	150	Vertical	Pass
5**	11431.400	39.34	-4.00	54.0	-14.66	AV	192.00	150	Vertical	Pass
6	16385.625	53.10	0.15	74.0	-20.90	Peak	0.00	150	Vertical	Pass
6**	16385.625	42.95	0.15	54.0	-11.05	AV	0.00	150	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11n20 Channel 2

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1599.600	43.09	-17.71	74.0	-30.91	Peak	291.00	150	Horizontal	Pass
1**	1599.600	36.37	-17.71	54.0	-17.63	AV	291.00	150	Horizontal	Pass
2	2422.100	107.03	-12.86	74.0	33.03	Peak	192.00	150	Horizontal	N/A
2**	2422.100	99.25	-12.86	54.0	45.25	AV	192.00	150	Horizontal	N/A
3	5269.250	50.50	-3.38	74.0	-23.50	Peak	215.00	150	Horizontal	Pass
3**	5269.250	41.30	-3.38	54.0	-12.70	AV	215.00	150	Horizontal	Pass
4	7817.500	53.10	1.55	74.0	-20.90	Peak	324.00	150	Horizontal	Pass
4**	7817.500	44.82	1.55	54.0	-9.18	AV	324.00	150	Horizontal	Pass
5	11690.988	49.23	-4.25	74.0	-24.77	Peak	29.00	150	Horizontal	Pass
5**	11690.988	39.79	-4.25	54.0	-14.21	AV	29.00	150	Horizontal	Pass
6	17875.575	53.02	2.67	74.0	-20.98	Peak	361.00	150	Horizontal	Pass
6**	17875.575	43.08	2.67	54.0	-10.92	AV	361.00	150	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11n20 Channel 2

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1600.000	43.00	-17.76	74.0	-31.00	Peak	63.00	150	Vertical	Pass
1**	1600.000	38.07	-17.76	54.0	-15.93	AV	63.00	150	Vertical	Pass
2	2422.900	92.91	-12.79	74.0	18.91	Peak	189.00	150	Vertical	N/A
2**	2422.900	84.81	-12.79	54.0	30.81	AV	189.00	150	Vertical	N/A
3	5246.000	50.93	-3.69	74.0	-23.07	Peak	265.00	150	Vertical	Pass
3**	5246.000	40.50	-3.69	54.0	-13.50	AV	265.00	150	Vertical	Pass
4	7872.000	53.45	2.02	74.0	-20.55	Peak	90.00	150	Vertical	Pass
4**	7872.000	43.63	2.02	54.0	-10.37	AV	90.00	150	Vertical	Pass
5	10641.000	48.94	-4.67	74.0	-25.06	Peak	171.00	150	Vertical	Pass
5**	10641.000	39.01	-4.67	54.0	-14.99	AV	171.00	150	Vertical	Pass
6	16895.662	54.16	1.48	74.0	-19.84	Peak	44.00	150	Vertical	Pass
6**	16895.662	44.28	1.48	54.0	-9.72	AV	44.00	150	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11n20 Channel 6

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1600.000	43.01	-17.76	74.0	-30.99	Peak	333.00	150	Horizontal	Pass
1**	1600.000	37.85	-17.76	54.0	-16.15	AV	333.00	150	Horizontal	Pass
2	2433.000	107.54	-12.28	74.0	33.54	Peak	193.00	150	Horizontal	N/A
2**	2433.000	100.54	-12.28	54.0	46.54	AV	193.00	150	Horizontal	N/A
3	5183.750	50.89	-2.18	74.0	-23.11	Peak	305.00	150	Horizontal	Pass
3**	5183.750	40.88	-2.18	54.0	-13.12	AV	305.00	150	Horizontal	Pass
4	7839.000	52.89	1.99	74.0	-21.11	Peak	90.00	150	Horizontal	Pass
4**	7839.000	45.96	1.99	54.0	-8.04	AV	90.00	150	Horizontal	Pass
5	11179.412	48.86	-4.20	74.0	-25.14	Peak	7.00	150	Horizontal	Pass
5**	11179.412	39.15	-4.20	54.0	-14.85	AV	7.00	150	Horizontal	Pass
6	16450.200	53.07	-0.02	74.0	-20.93	Peak	271.00	150	Horizontal	Pass
6**	16450.200	44.43	-0.02	54.0	-9.57	AV	271.00	150	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11n20 Channel 6

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1599.700	42.67	-17.72	74.0	-31.33	Peak	217.00	150	Vertical	Pass
1**	1599.700	36.86	-17.72	54.0	-17.14	AV	217.00	150	Vertical	Pass
2	2435.600	92.53	-12.11	74.0	18.53	Peak	311.00	150	Vertical	N/A
2**	2435.600	84.65	-12.11	54.0	30.65	AV	311.00	150	Vertical	N/A
3	5143.500	50.53	-3.80	74.0	-23.47	Peak	360.00	150	Vertical	Pass
3**	5143.500	41.34	-3.80	54.0	-12.66	AV	360.00	150	Vertical	Pass
4	7127.250	53.09	0.23	74.0	-20.91	Peak	194.00	150	Vertical	Pass
4**	7127.250	43.41	0.23	54.0	-10.59	AV	194.00	150	Vertical	Pass
5	11199.838	49.47	-4.05	74.0	-24.53	Peak	238.00	150	Vertical	Pass
5**	11199.838	39.29	-4.05	54.0	-14.71	AV	238.00	150	Vertical	Pass
6	16891.199	53.40	1.44	74.0	-20.60	Peak	246.00	150	Vertical	Pass
6**	16891.199	44.32	1.44	54.0	-9.68	AV	246.00	150	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11n20 Channel 8

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1599.700	42.48	-17.72	74.0	-31.52	Peak	325.00	150	Horizontal	Pass
1**	1599.700	36.39	-17.72	54.0	-17.61	AV	325.00	150	Horizontal	Pass
2	2445.900	106.91	-12.61	74.0	32.91	Peak	175.00	150	Horizontal	N/A
2**	2445.900	99.40	-12.61	54.0	45.40	AV	175.00	150	Horizontal	N/A
3	5185.000	50.55	-2.33	74.0	-23.45	Peak	44.00	150	Horizontal	Pass
3**	5185.000	42.41	-2.33	54.0	-11.59	AV	44.00	150	Horizontal	Pass
4	7842.000	53.44	1.65	74.0	-20.56	Peak	249.00	150	Horizontal	Pass
4**	7842.000	44.26	1.65	54.0	-9.74	AV	249.00	150	Horizontal	Pass
5	11799.287	49.12	-3.54	74.0	-24.88	Peak	360.00	150	Horizontal	Pass
5**	11799.287	40.88	-3.54	54.0	-13.12	AV	360.00	150	Horizontal	Pass
6	17806.801	54.28	3.17	74.0	-19.72	Peak	66.00	150	Horizontal	Pass
6**	17806.801	44.93	3.17	54.0	-9.07	AV	66.00	150	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11n20 Channel 8

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1600.000	43.22	-17.76	74.0	-30.78	Peak	219.00	150	Vertical	Pass
1**	1600.000	38.57	-17.76	54.0	-15.43	AV	219.00	150	Vertical	Pass
2	2449.900	92.19	-12.76	74.0	18.19	Peak	143.00	150	Vertical	N/A
2**	2449.900	84.23	-12.76	54.0	30.23	AV	143.00	150	Vertical	N/A
3	5175.250	50.57	-2.59	74.0	-23.43	Peak	289.00	150	Vertical	Pass
3**	5175.250	42.11	-2.59	54.0	-11.89	AV	289.00	150	Vertical	Pass
4	7837.000	53.25	2.08	74.0	-20.75	Peak	232.00	150	Vertical	Pass
4**	7837.000	44.57	2.08	54.0	-9.43	AV	232.00	150	Vertical	Pass
5	11313.362	49.59	-4.13	74.0	-24.41	Peak	227.00	150	Vertical	Pass
5**	11313.362	39.40	-4.13	54.0	-14.60	AV	227.00	150	Vertical	Pass
6	17797.087	53.94	3.18	74.0	-20.06	Peak	43.00	150	Vertical	Pass
6**	17797.087	44.11	3.18	54.0	-9.89	AV	43.00	150	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11n20 Channel 9

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1599.800	43.47	-17.74	74.0	-30.53	Peak	51.00	150	Horizontal	Pass
1**	1599.800	37.89	-17.74	54.0	-16.11	AV	51.00	150	Horizontal	Pass
2	2455.900	105.90	-12.83	74.0	31.90	Peak	186.00	150	Horizontal	N/A
2**	2455.900	98.16	-12.83	54.0	44.16	AV	186.00	150	Horizontal	N/A
3	5188.250	50.38	-2.55	74.0	-23.62	Peak	200.00	150	Horizontal	Pass
3**	5188.250	41.13	-2.55	54.0	-12.87	AV	200.00	150	Horizontal	Pass
4	7818.000	53.28	1.73	74.0	-20.72	Peak	224.00	150	Horizontal	Pass
4**	7818.000	44.55	1.73	54.0	-9.45	AV	224.00	150	Horizontal	Pass
5	10634.588	48.91	-4.58	74.0	-25.09	Peak	132.00	150	Horizontal	Pass
5**	10634.588	39.41	-4.58	54.0	-14.59	AV	132.00	150	Horizontal	Pass
6	17314.349	53.72	1.98	74.0	-20.28	Peak	163.00	150	Horizontal	Pass
6**	17314.349	44.14	1.98	54.0	-9.86	AV	163.00	150	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11n20 Channel 9

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1599.800	43.50	-17.74	74.0	-30.50	Peak	154.00	150	Vertical	Pass
1**	1599.800	37.32	-17.74	54.0	-16.68	AV	154.00	150	Vertical	Pass
2	2450.200	90.34	-12.72	74.0	16.34	Peak	223.00	150	Vertical	N/A
2**	2450.200	82.25	-12.72	54.0	28.25	AV	223.00	150	Vertical	N/A
3	5172.500	50.88	-2.81	74.0	-23.12	Peak	258.00	150	Vertical	Pass
3**	5172.500	41.18	-2.81	54.0	-12.82	AV	258.00	150	Vertical	Pass
4	7932.250	52.88	0.58	74.0	-21.12	Peak	356.00	150	Vertical	Pass
4**	7932.250	42.83	0.58	54.0	-11.17	AV	356.00	150	Vertical	Pass
5	10730.537	49.36	-4.87	74.0	-24.64	Peak	326.00	150	Vertical	Pass
5**	10730.537	38.87	-4.87	54.0	-15.13	AV	326.00	150	Vertical	Pass
6	16901.963	53.71	1.48	74.0	-20.29	Peak	224.00	150	Vertical	Pass
6**	16901.963	43.67	1.48	54.0	-10.33	AV	224.00	150	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11n20 Channel 10

No.	Frequency (MHz)	Results (dBUV/m)	Factor (dB)	Limit (dBUV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1600.000	43.33	-17.76	74.0	-30.67	Peak	150.00	150	Horizontal	Pass
1**	1600.000	38.54	-17.76	54.0	-15.46	AV	150.00	150	Horizontal	Pass
2	2461.200	103.81	-12.62	74.0	29.81	Peak	181.00	150	Horizontal	N/A
2**	2461.200	95.53	-12.62	54.0	41.53	AV	181.00	150	Horizontal	N/A
3	5188.000	50.56	-2.53	74.0	-23.44	Peak	328.00	150	Horizontal	Pass
3**	5188.000	40.91	-2.53	54.0	-13.09	AV	328.00	150	Horizontal	Pass
4	7838.750	53.08	2.00	74.0	-20.92	Peak	100.00	150	Horizontal	Pass
4**	7838.750	44.93	2.00	54.0	-9.07	AV	100.00	150	Horizontal	Pass
5	11692.650	49.02	-4.24	74.0	-24.98	Peak	0.00	150	Horizontal	Pass
5**	11692.650	39.04	-4.24	54.0	-14.96	AV	0.00	150	Horizontal	Pass
6	16511.363	53.07	0.01	74.0	-20.93	Peak	0.00	150	Horizontal	Pass
6**	16511.363	43.58	0.01	54.0	-10.42	AV	0.00	150	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11n20 Channel 10

No.	Frequency (MHz)	Results (dBUV/m)	Factor (dB)	Limit (dBUV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1599.800	44.48	-17.74	74.0	-29.52	Peak	8.00	150	Vertical	Pass
1**	1599.800	38.20	-17.74	54.0	-15.80	AV	8.00	150	Vertical	Pass
2	2464.200	87.04	-12.71	74.0	13.04	Peak	144.00	150	Vertical	N/A
2**	2464.200	77.87	-12.71	54.0	23.87	AV	144.00	150	Vertical	N/A
3	5178.500	50.81	-2.29	74.0	-23.19	Peak	256.00	150	Vertical	Pass
3**	5178.500	41.45	-2.29	54.0	-12.55	AV	256.00	150	Vertical	Pass
4	7875.000	53.98	2.12	74.0	-20.02	Peak	165.00	150	Vertical	Pass
4**	7875.000	43.73	2.12	54.0	-10.27	AV	165.00	150	Vertical	Pass
5	10711.063	49.17	-4.82	74.0	-24.83	Peak	33.00	150	Vertical	Pass
5**	10711.063	38.83	-4.82	54.0	-15.17	AV	33.00	150	Vertical	Pass
6	16330.762	53.00	-0.13	74.0	-21.00	Peak	325.00	150	Vertical	Pass
6**	16330.762	42.80	-0.13	54.0	-11.20	AV	325.00	150	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11n20 Channel 11

No.	Frequency (MHz)	Results (dBUV/m)	Factor (dB)	Limit (dBUV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1599.800	43.06	-17.74	74.0	-30.94	Peak	209.00	150	Horizontal	Pass
1**	1599.800	37.27	-17.74	54.0	-16.73	AV	209.00	150	Horizontal	Pass
2	2465.300	107.02	-12.75	74.0	33.02	Peak	182.00	150	Horizontal	N/A
2**	2465.300	98.55	-12.75	54.0	44.55	AV	182.00	150	Horizontal	N/A
3	5350.250	51.02	-3.09	74.0	-22.98	Peak	219.00	150	Horizontal	Pass
3**	5350.250	41.03	-3.09	54.0	-12.97	AV	219.00	150	Horizontal	Pass
4	7834.000	53.13	2.24	74.0	-20.87	Peak	104.00	150	Horizontal	Pass
4**	7834.000	44.21	2.24	54.0	-9.79	AV	104.00	150	Horizontal	Pass
5	11796.437	49.59	-3.57	74.0	-24.41	Peak	346.00	150	Horizontal	Pass
5**	11796.437	39.58	-3.57	54.0	-14.42	AV	346.00	150	Horizontal	Pass
6	17842.500	53.83	2.87	74.0	-20.17	Peak	48.00	150	Horizontal	Pass
6**	17842.500	44.39	2.87	54.0	-9.61	AV	48.00	150	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11n20 Channel 11

No.	Frequency (MHz)	Results (dBUV/m)	Factor (dB)	Limit (dBUV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1600.000	43.72	-17.76	74.0	-30.28	Peak	13.00	150	Vertical	Pass
1**	1600.000	38.00	-17.76	54.0	-16.00	AV	13.00	150	Vertical	Pass
2	2464.900	90.88	-12.74	74.0	16.88	Peak	148.00	150	Vertical	N/A
2**	2464.900	82.74	-12.74	54.0	28.74	AV	148.00	150	Vertical	N/A
3	5636.750	52.07	-2.06	74.0	-21.93	Peak	224.00	150	Vertical	Pass
3**	5636.750	41.59	-2.06	54.0	-12.41	AV	224.00	150	Vertical	Pass
4	7832.750	53.32	2.28	74.0	-20.68	Peak	183.00	150	Vertical	Pass
4**	7832.750	44.77	2.28	54.0	-9.23	AV	183.00	150	Vertical	Pass
5	11712.125	49.66	-4.14	74.0	-24.34	Peak	135.00	150	Vertical	Pass
5**	11712.125	39.16	-4.14	54.0	-14.84	AV	135.00	150	Vertical	Pass
6	16700.625	54.04	0.44	74.0	-19.96	Peak	36.00	150	Vertical	Pass
6**	16700.625	43.60	0.44	54.0	-10.40	AV	36.00	150	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11n40 Channel 3

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1600.100	43.12	-17.77	74.0	-30.88	Peak	297.00	150	Horizontal	Pass
1**	1600.100	38.33	-17.77	54.0	-15.67	AV	297.00	150	Horizontal	Pass
2	2437.200	103.91	-12.33	74.0	29.91	Peak	173.00	150	Horizontal	N/A
2**	2437.200	95.95	-12.33	54.0	41.95	AV	173.00	150	Horizontal	N/A
3	5173.500	50.82	-2.68	74.0	-23.18	Peak	242.00	150	Horizontal	Pass
3**	5173.500	41.51	-2.68	54.0	-12.49	AV	242.00	150	Horizontal	Pass
4	7839.250	53.61	1.98	74.0	-20.39	Peak	340.00	150	Horizontal	Pass
4**	7839.250	46.31	1.98	54.0	-7.69	AV	340.00	150	Horizontal	Pass
5	11378.437	48.85	-4.33	74.0	-25.15	Peak	75.00	150	Horizontal	Pass
5**	11378.437	39.02	-4.33	54.0	-14.98	AV	75.00	150	Horizontal	Pass
6	17346.636	53.38	1.89	74.0	-20.62	Peak	19.00	150	Horizontal	Pass
6**	17346.636	43.56	1.89	54.0	-10.44	AV	19.00	150	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11n40 Channel 3

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1600.400	42.66	-17.78	74.0	-31.34	Peak	71.00	150	Vertical	Pass
1**	1600.400	37.07	-17.78	54.0	-16.93	AV	71.00	150	Vertical	Pass
2	2430.100	90.56	-12.46	74.0	16.56	Peak	192.00	150	Vertical	N/A
2**	2430.100	81.31	-12.46	54.0	27.31	AV	192.00	150	Vertical	N/A
3	5190.500	51.24	-2.67	74.0	-22.76	Peak	174.00	150	Vertical	Pass
3**	5190.500	41.56	-2.67	54.0	-12.44	AV	174.00	150	Vertical	Pass
4	7830.250	53.69	1.97	74.0	-20.31	Peak	101.00	150	Vertical	Pass
4**	7830.250	44.68	1.97	54.0	-9.32	AV	101.00	150	Vertical	Pass
5	11186.062	49.40	-4.15	74.0	-24.60	Peak	124.00	150	Vertical	Pass
5**	11186.062	39.36	-4.15	54.0	-14.64	AV	124.00	150	Vertical	Pass
6	17044.238	53.51	0.88	74.0	-20.49	Peak	135.00	150	Vertical	Pass
6**	17044.238	43.66	0.88	54.0	-10.34	AV	135.00	150	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11n40 Channel 4

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1599.900	43.40	-17.75	74.0	-30.60	Peak	5.00	150	Horizontal	Pass
1**	1599.900	37.82	-17.75	54.0	-16.18	AV	5.00	150	Horizontal	Pass
2	2435.200	100.12	-12.07	74.0	26.12	Peak	188.00	150	Horizontal	N/A
2**	2435.200	91.34	-12.07	54.0	37.34	AV	188.00	150	Horizontal	N/A
3	5152.500	50.31	-3.46	74.0	-23.69	Peak	38.00	150	Horizontal	Pass
3**	5152.500	41.85	-3.46	54.0	-12.15	AV	38.00	150	Horizontal	Pass
4	7758.250	53.47	-0.31	74.0	-20.53	Peak	101.00	150	Horizontal	Pass
4**	7758.250	43.26	-0.31	54.0	-10.74	AV	101.00	150	Horizontal	Pass
5	10794.424	49.11	-5.33	74.0	-24.89	Peak	86.00	150	Horizontal	Pass
5**	10794.424	39.11	-5.33	54.0	-14.89	AV	86.00	150	Horizontal	Pass
6	17781.338	53.45	2.97	74.0	-20.55	Peak	7.00	150	Horizontal	Pass
6**	17781.338	45.81	2.97	54.0	-8.19	AV	7.00	150	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11n40 Channel 4

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1599.800	42.89	-17.74	74.0	-31.11	Peak	0.00	150	Vertical	Pass
1**	1599.800	37.78	-17.74	54.0	-16.22	AV	0.00	150	Vertical	Pass
2	2435.100	82.97	-12.08	74.0	8.97	Peak	191.00	150	Vertical	N/A
2**	2435.100	75.22	-12.08	54.0	21.22	AV	191.00	150	Vertical	N/A
3	5185.500	51.37	-2.36	74.0	-22.63	Peak	202.00	150	Vertical	Pass
3**	5185.500	42.16	-2.36	54.0	-11.84	AV	202.00	150	Vertical	Pass
4	7833.750	54.17	2.25	74.0	-19.83	Peak	360.00	150	Vertical	Pass
4**	7833.750	44.75	2.25	54.0	-9.25	AV	360.00	150	Vertical	Pass
5	11442.800	49.40	-3.92	74.0	-24.60	Peak	87.00	150	Vertical	Pass
5**	11442.800	39.85	-3.92	54.0	-14.15	AV	87.00	150	Vertical	Pass
6	17306.474	53.71	2.00	74.0	-20.29	Peak	113.00	150	Vertical	Pass
6**	17306.474	43.49	2.00	54.0	-10.51	AV	113.00	150	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11n40 Channel 5

No.	Frequency (MHz)	Results (dBUV/m)	Factor (dB)	Limit (dBUV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1599.700	42.74	-17.72	74.0	-31.26	Peak	297.00	150	Horizontal	Pass
1**	1599.700	36.89	-17.72	54.0	-17.11	AV	297.00	150	Horizontal	Pass
2	2414.900	102.07	-13.38	74.0	28.07	Peak	168.00	150	Horizontal	N/A
2**	2414.900	94.26	-13.38	54.0	40.26	AV	168.00	150	Horizontal	N/A
3	5349.500	50.95	-3.09	74.0	-23.05	Peak	249.00	150	Horizontal	Pass
3**	5349.500	40.91	-3.09	54.0	-13.09	AV	249.00	150	Horizontal	Pass
4	7463.250	53.73	1.04	74.0	-20.27	Peak	249.00	150	Horizontal	Pass
4**	7463.250	43.92	1.04	54.0	-10.08	AV	249.00	150	Horizontal	Pass
5	11785.513	49.25	-3.66	74.0	-24.75	Peak	100.00	150	Horizontal	Pass
5**	11785.513	40.03	-3.66	54.0	-13.97	AV	100.00	150	Horizontal	Pass
6	17284.426	53.36	1.99	74.0	-20.64	Peak	112.00	150	Horizontal	Pass
6**	17284.426	44.07	1.99	54.0	-9.93	AV	112.00	150	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11n40 Channel 5

No.	Frequency (MHz)	Results (dBUV/m)	Factor (dB)	Limit (dBUV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1599.900	43.05	-17.75	74.0	-30.95	Peak	289.00	150	Vertical	Pass
1**	1599.900	37.40	-17.75	54.0	-16.60	AV	289.00	150	Vertical	Pass
2	2425.700	86.18	-12.67	74.0	12.18	Peak	189.00	150	Vertical	N/A
2**	2425.700	77.68	-12.67	54.0	23.68	AV	189.00	150	Vertical	N/A
3	5234.250	50.28	-3.27	74.0	-23.72	Peak	259.00	150	Vertical	Pass
3**	5234.250	41.33	-3.27	54.0	-12.67	AV	259.00	150	Vertical	Pass
4	7468.500	53.06	0.71	74.0	-20.94	Peak	358.00	150	Vertical	Pass
4**	7468.500	44.43	0.71	54.0	-9.57	AV	358.00	150	Vertical	Pass
5	11126.450	49.01	-4.47	74.0	-24.99	Peak	226.00	150	Vertical	Pass
5**	11126.450	38.41	-4.47	54.0	-15.59	AV	226.00	150	Vertical	Pass
6	16400.062	52.65	0.33	74.0	-21.35	Peak	0.00	150	Vertical	Pass
6**	16400.062	41.35	0.33	54.0	-12.65	AV	0.00	150	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11n40 Channel 6

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1600.100	43.18	-17.77	74.0	-30.82	Peak	351.00	150	Horizontal	Pass
1**	1600.100	38.23	-17.77	54.0	-15.77	AV	351.00	150	Horizontal	Pass
2	2423.800	104.94	-12.82	74.0	30.94	Peak	193.00	150	Horizontal	N/A
2**	2423.800	97.69	-12.82	54.0	43.69	AV	193.00	150	Horizontal	N/A
3	5319.000	50.44	-3.55	74.0	-23.56	Peak	360.00	150	Horizontal	Pass
3**	5319.000	41.14	-3.55	54.0	-12.86	AV	360.00	150	Horizontal	Pass
4	7454.000	53.27	1.12	74.0	-20.73	Peak	335.00	150	Horizontal	Pass
4**	7454.000	43.82	1.12	54.0	-10.18	AV	335.00	150	Horizontal	Pass
5	10373.576	49.67	-4.62	74.0	-24.33	Peak	66.00	150	Horizontal	Pass
5**	10373.576	38.58	-4.62	54.0	-15.42	AV	66.00	150	Horizontal	Pass
6	16385.625	53.20	0.15	74.0	-20.80	Peak	43.00	150	Horizontal	Pass
6**	16385.625	43.94	0.15	54.0	-10.06	AV	43.00	150	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11n40 Channel 6

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1600.400	42.93	-17.78	74.0	-31.07	Peak	228.00	150	Vertical	Pass
1**	1600.400	37.14	-17.78	54.0	-16.86	AV	228.00	150	Vertical	Pass
2	2432.700	91.17	-12.30	74.0	17.17	Peak	193.00	150	Vertical	N/A
2**	2432.700	83.06	-12.30	54.0	29.06	AV	193.00	150	Vertical	N/A
3	5156.250	50.34	-3.57	74.0	-23.66	Peak	110.00	150	Vertical	Pass
3**	5156.250	40.46	-3.57	54.0	-13.54	AV	110.00	150	Vertical	Pass
4	7722.250	53.13	0.60	74.0	-20.87	Peak	248.00	150	Vertical	Pass
4**	7722.250	42.87	0.60	54.0	-11.13	AV	248.00	150	Vertical	Pass
5	11787.175	49.74	-3.65	74.0	-24.26	Peak	110.00	150	Vertical	Pass
5**	11787.175	41.09	-3.65	54.0	-12.91	AV	110.00	150	Vertical	Pass
6	17779.499	52.86	2.94	74.0	-21.14	Peak	33.00	150	Vertical	Pass
6**	17779.499	44.51	2.94	54.0	-9.49	AV	33.00	150	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11n40 Channel 7

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1599.800	42.16	-17.74	74.0	-31.84	Peak	188.00	150	Horizontal	Pass
1**	1599.800	36.03	-17.74	54.0	-17.97	AV	188.00	150	Horizontal	Pass
2	2434.900	100.77	-12.10	74.0	26.77	Peak	188.00	150	Horizontal	N/A
2**	2434.900	93.49	-12.10	54.0	39.49	AV	188.00	150	Horizontal	N/A
3	5234.250	49.85	-3.27	74.0	-24.15	Peak	45.00	150	Horizontal	Pass
3**	5234.250	41.02	-3.27	54.0	-12.98	AV	45.00	150	Horizontal	Pass
4	7840.000	53.04	1.88	74.0	-20.96	Peak	217.00	150	Horizontal	Pass
4**	7840.000	45.11	1.88	54.0	-8.89	AV	217.00	150	Horizontal	Pass
5	10698.000	48.73	-4.79	74.0	-25.27	Peak	143.00	150	Horizontal	Pass
5**	10698.000	39.23	-4.79	54.0	-14.77	AV	143.00	150	Horizontal	Pass
6	17272.349	53.31	1.96	74.0	-20.69	Peak	8.00	150	Horizontal	Pass
6**	17272.349	44.01	1.96	54.0	-9.99	AV	8.00	150	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11n40 Channel 7

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1600.100	42.77	-17.77	74.0	-31.23	Peak	14.00	150	Vertical	Pass
1**	1600.100	37.05	-17.77	54.0	-16.95	AV	14.00	150	Vertical	Pass
2	2434.900	85.17	-12.10	74.0	11.17	Peak	199.00	150	Vertical	N/A
2**	2434.900	76.53	-12.10	54.0	22.53	AV	199.00	150	Vertical	N/A
3	5180.500	50.30	-2.20	74.0	-23.70	Peak	4.00	150	Vertical	Pass
3**	5180.500	41.22	-2.20	54.0	-12.78	AV	4.00	150	Vertical	Pass
4	7130.250	52.53	0.63	74.0	-21.47	Peak	335.00	150	Vertical	Pass
4**	7130.250	43.98	0.63	54.0	-10.02	AV	335.00	150	Vertical	Pass
5	10571.650	49.01	-4.39	74.0	-24.99	Peak	39.00	150	Vertical	Pass
5**	10571.650	39.58	-4.39	54.0	-14.42	AV	39.00	150	Vertical	Pass
6	17565.563	53.86	3.20	74.0	-20.14	Peak	289.00	150	Vertical	Pass
6**	17565.563	43.64	3.20	54.0	-10.36	AV	289.00	150	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11n40 Channel 8

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1599.900	43.17	-17.75	74.0	-30.83	Peak	115.00	150	Horizontal	Pass
1**	1599.900	36.65	-17.75	54.0	-17.35	AV	115.00	150	Horizontal	Pass
2	2443.600	100.93	-12.50	74.0	26.93	Peak	174.00	150	Horizontal	N/A
2**	2443.600	92.03	-12.50	54.0	38.03	AV	174.00	150	Horizontal	N/A
3	5220.750	50.21	-3.39	74.0	-23.79	Peak	282.00	150	Horizontal	Pass
3**	5220.750	41.11	-3.39	54.0	-12.89	AV	282.00	150	Horizontal	Pass
4	7843.750	53.71	1.48	74.0	-20.29	Peak	223.00	150	Horizontal	Pass
4**	7843.750	44.06	1.48	54.0	-9.94	AV	223.00	150	Horizontal	Pass
5	11801.900	48.73	-3.52	74.0	-25.27	Peak	321.00	150	Horizontal	Pass
5**	11801.900	39.92	-3.52	54.0	-14.08	AV	321.00	150	Horizontal	Pass
6	16843.949	53.53	1.00	74.0	-20.47	Peak	341.00	150	Horizontal	Pass
6**	16843.949	42.35	1.00	54.0	-11.65	AV	341.00	150	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11n40 Channel 8

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1600.100	42.51	-17.77	74.0	-31.49	Peak	153.00	150	Vertical	Pass
1**	1600.100	37.35	-17.77	54.0	-16.65	AV	153.00	150	Vertical	Pass
2	2448.700	83.37	-12.91	74.0	9.37	Peak	119.00	150	Vertical	N/A
2**	2448.700	75.33	-12.91	54.0	21.33	AV	119.00	150	Vertical	N/A
3	5180.750	50.85	-2.19	74.0	-23.15	Peak	360.00	150	Vertical	Pass
3**	5180.750	42.02	-2.19	54.0	-11.98	AV	360.00	150	Vertical	Pass
4	7457.500	52.85	1.14	74.0	-21.15	Peak	256.00	150	Vertical	Pass
4**	7457.500	44.08	1.14	54.0	-9.92	AV	256.00	150	Vertical	Pass
5	11164.687	49.09	-4.31	74.0	-24.91	Peak	221.00	150	Vertical	Pass
5**	11164.687	39.76	-4.31	54.0	-14.24	AV	221.00	150	Vertical	Pass
6	17610.449	53.01	3.21	74.0	-20.99	Peak	314.00	150	Vertical	Pass
6**	17610.449	43.90	3.21	54.0	-10.10	AV	314.00	150	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11n40 Channel 9

No.	Frequency (MHz)	Results (dBUV/m)	Factor (dB)	Limit (dBUV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1599.600	42.22	-17.71	74.0	-31.78	Peak	45.00	150	Horizontal	Pass
1**	1599.600	34.17	-17.71	54.0	-19.83	AV	45.00	150	Horizontal	Pass
2	2449.600	104.02	-12.80	74.0	30.02	Peak	183.00	150	Horizontal	N/A
2**	2449.600	96.02	-12.80	54.0	42.02	AV	183.00	150	Horizontal	N/A
3	5195.250	50.82	-3.09	74.0	-23.18	Peak	151.00	150	Horizontal	Pass
3**	5195.250	40.78	-3.09	54.0	-13.22	AV	151.00	150	Horizontal	Pass
4	7835.500	52.71	2.16	74.0	-21.29	Peak	151.00	150	Horizontal	Pass
4**	7835.500	43.68	2.16	54.0	-10.32	AV	151.00	150	Horizontal	Pass
5	12294.237	49.48	-2.49	74.0	-24.52	Peak	284.00	150	Horizontal	Pass
5**	12294.237	39.57	-2.49	54.0	-14.43	AV	284.00	150	Horizontal	Pass
6	17322.488	53.89	1.95	74.0	-20.11	Peak	148.00	150	Horizontal	Pass
6**	17322.488	43.97	1.95	54.0	-10.03	AV	148.00	150	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11n40 Channel 9

No.	Frequency (MHz)	Results (dBUV/m)	Factor (dB)	Limit (dBUV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1600.000	42.18	-17.76	74.0	-31.82	Peak	323.00	150	Vertical	Pass
1**	1600.000	36.90	-17.76	54.0	-17.10	AV	323.00	150	Vertical	Pass
2	2458.300	88.29	-12.66	74.0	14.29	Peak	166.00	150	Vertical	N/A
2**	2458.300	80.72	-12.66	54.0	26.72	AV	166.00	150	Vertical	N/A
3	5193.000	50.42	-2.86	74.0	-23.58	Peak	250.00	150	Vertical	Pass
3**	5193.000	40.57	-2.86	54.0	-13.43	AV	250.00	150	Vertical	Pass
4	7584.750	53.24	0.07	74.0	-20.76	Peak	120.00	150	Vertical	Pass
4**	7584.750	42.62	0.07	54.0	-11.38	AV	120.00	150	Vertical	Pass
5	10542.437	48.98	-4.57	74.0	-25.02	Peak	352.00	150	Vertical	Pass
5**	10542.437	38.63	-4.57	54.0	-15.37	AV	352.00	150	Vertical	Pass
6	16149.375	51.66	-0.47	74.0	-22.34	Peak	19.00	150	Vertical	Pass
6**	16149.375	41.82	-0.47	54.0	-12.18	AV	19.00	150	Vertical	Pass

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

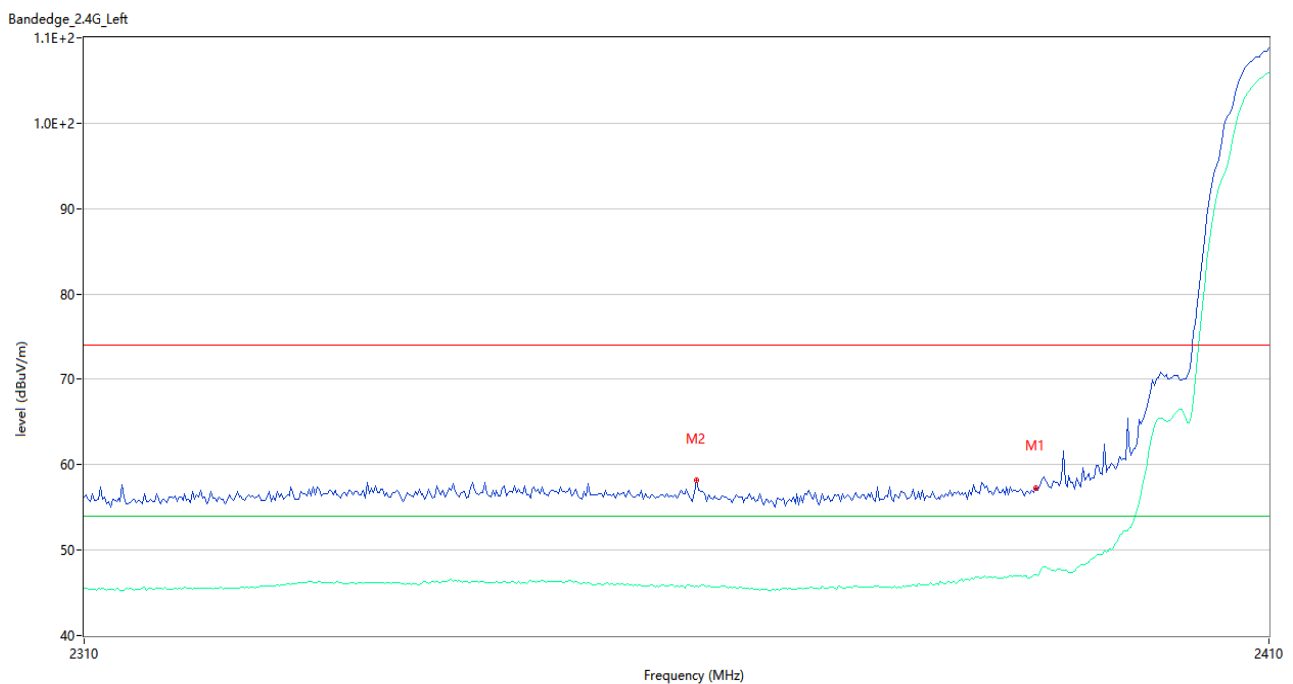
Note ¹: The lowest and highest channels are tested to verify the band edge emissions. Please refer to the following the plots for emissions values.

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

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

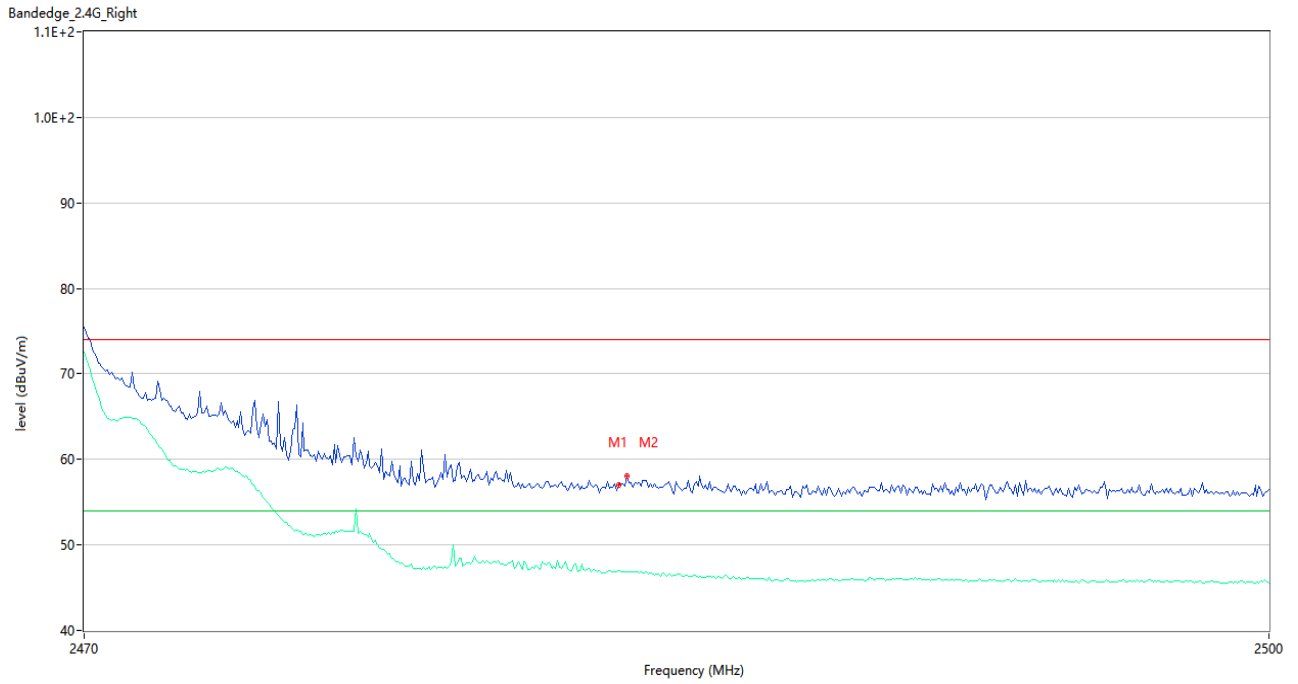
Test Data and Plots

802.11b CHANNEL 1



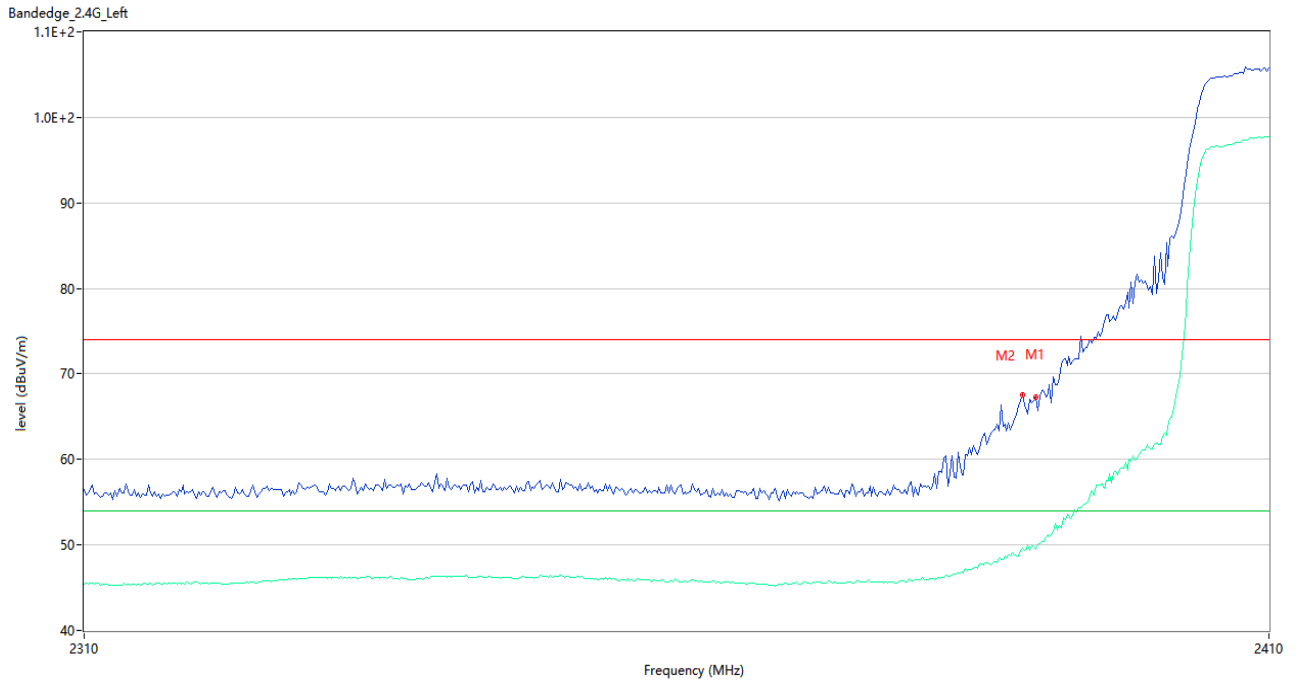
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2390.000	57.32	1.62	74.0	-16.68	Peak	217.00	150	Horizontal	Pass
1**	2390.000	47.17	1.62	54.0	-6.83	AV	217.00	150	Horizontal	Pass
2	2361.167	58.13	1.83	74.0	-15.87	Peak	276.00	150	Horizontal	Pass
2**	2361.167	45.85	1.83	54.0	-8.15	AV	276.00	150	Horizontal	Pass

802.11b CHANNEL 11



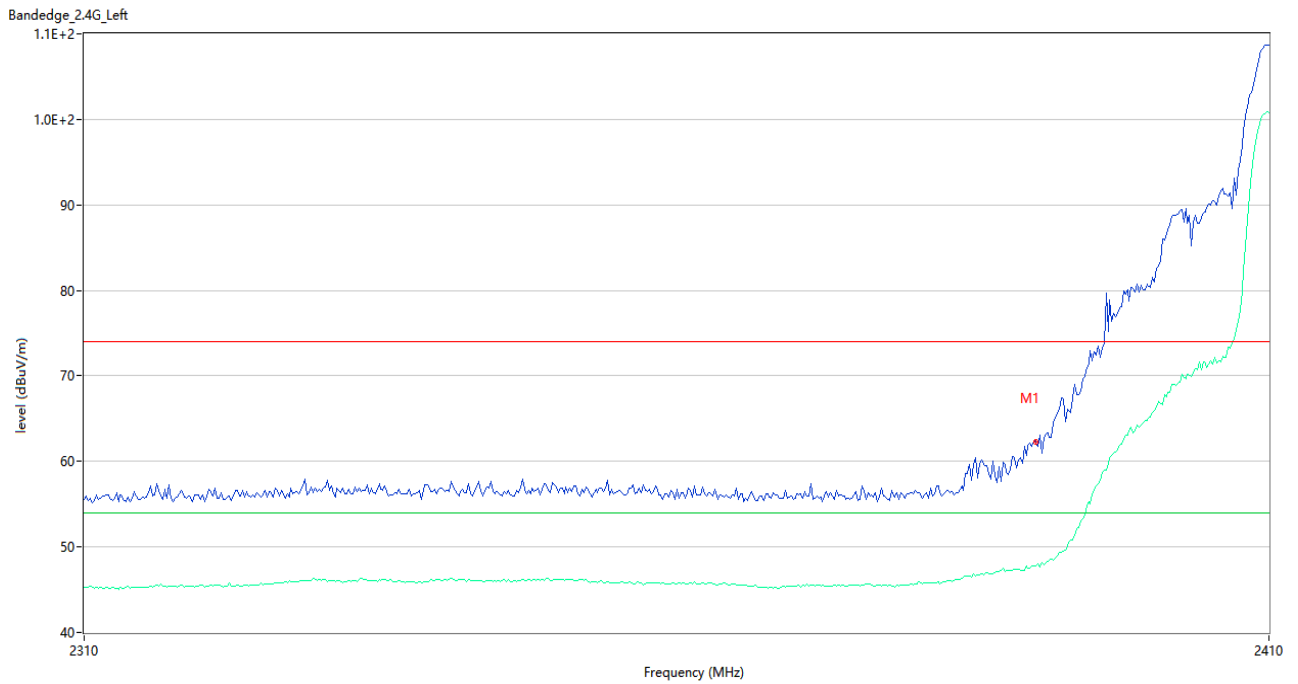
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	56.99	1.98	74.0	-17.01	Peak	142.00	150	Horizontal	Pass
1**	2483.500	46.97	1.98	54.0	-7.03	AV	142.00	150	Horizontal	Pass
2	2483.700	58.06	1.99	74.0	-15.94	Peak	205.00	150	Horizontal	Pass
2**	2483.700	46.85	1.99	54.0	-7.15	AV	205.00	150	Horizontal	Pass

802.11g CHANNEL 1



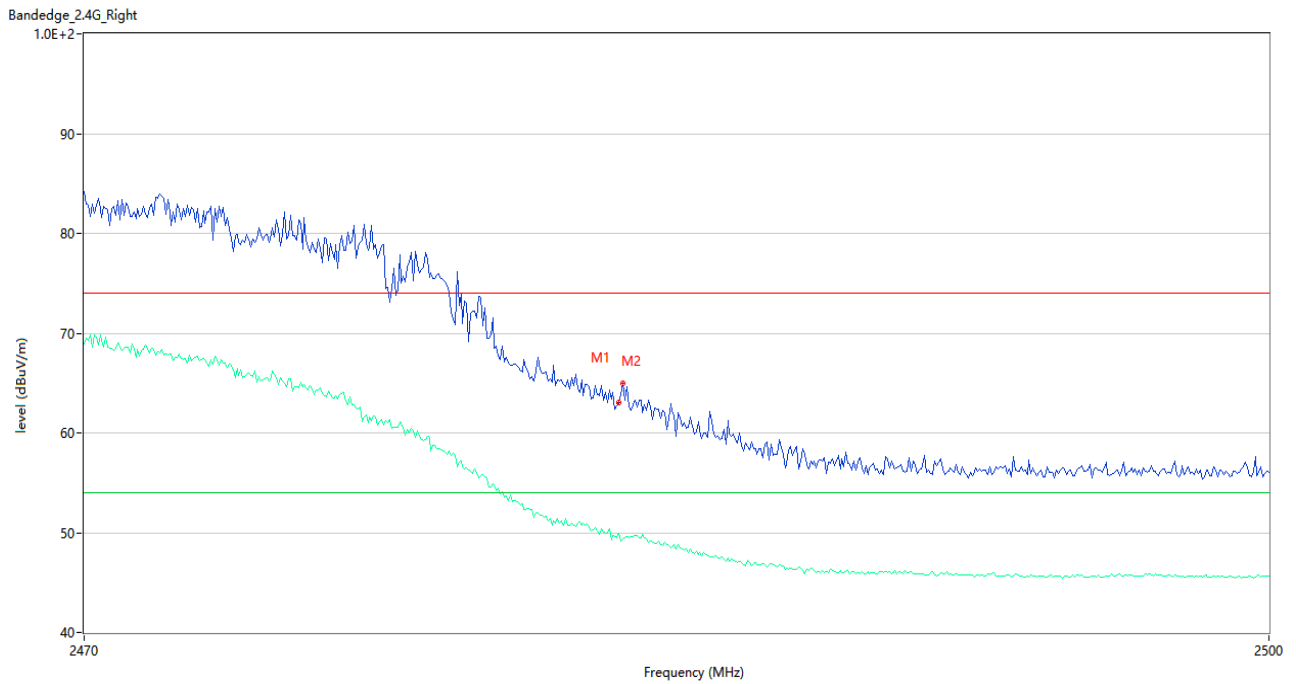
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2390.000	67.32	1.62	74.0	-6.68	Peak	203.00	150	Horizontal	Pass
1**	2390.000	49.48	1.62	54.0	-4.52	AV	203.00	150	Horizontal	Pass
2	2388.833	67.56	1.71	74.0	-6.44	Peak	195.00	150	Horizontal	Pass
2**	2388.833	49.65	1.71	54.0	-4.35	AV	195.00	150	Horizontal	Pass

802.11g CHANNEL 2



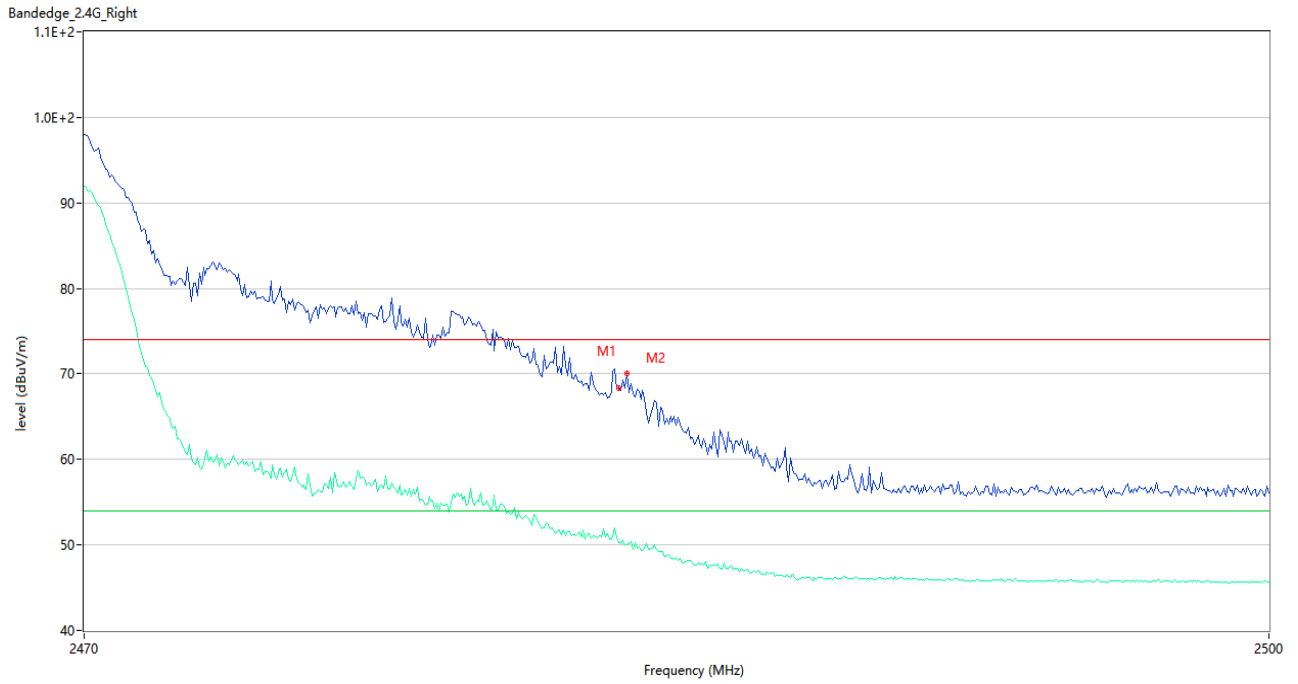
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2390.000	62.27	1.62	74.0	-11.73	Peak	152.00	150	Horizontal	Pass
1**	2390.000	47.81	1.62	54.0	-6.19	AV	152.00	150	Horizontal	Pass

802.11g CHANNEL 10



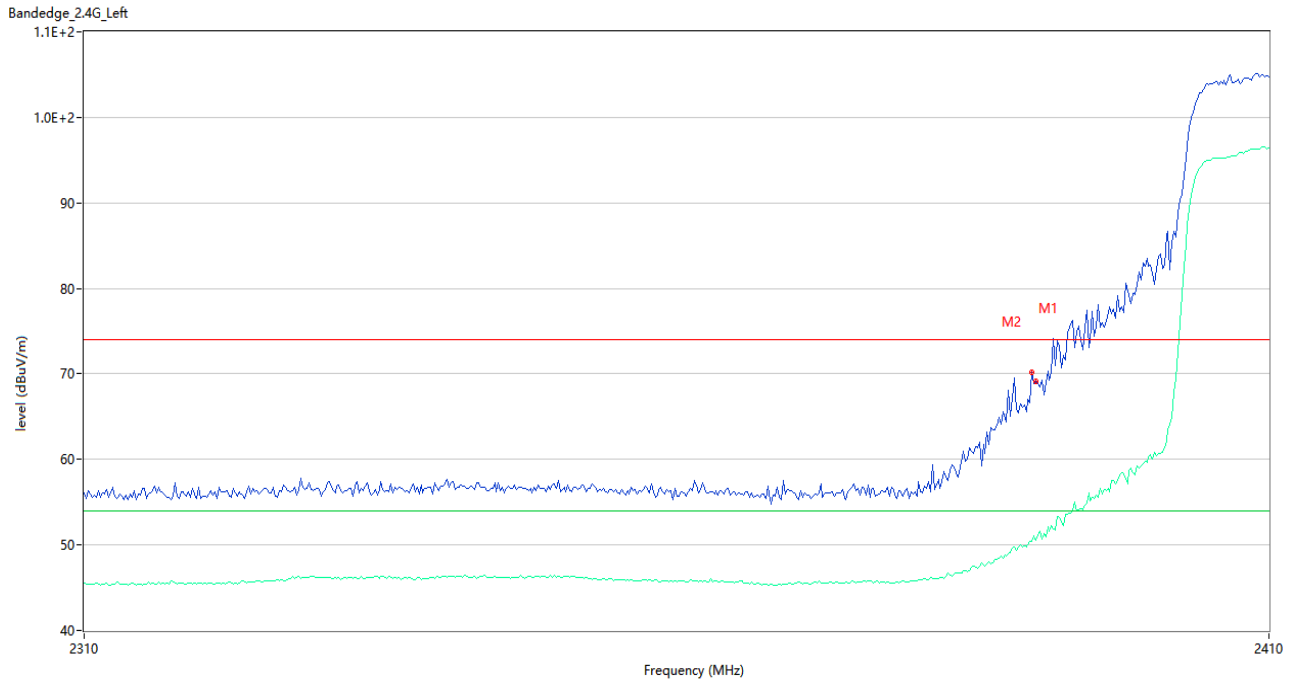
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	63.01	1.98	74.0	-10.99	Peak	169.00	150	Horizontal	Pass
1**	2483.500	49.93	1.98	54.0	-4.07	AV	169.00	150	Horizontal	Pass
2	2483.600	65.00	1.99	74.0	-9.00	Peak	194.00	150	Horizontal	Pass
2**	2483.600	49.33	1.99	54.0	-4.67	AV	194.00	150	Horizontal	Pass

802.11g CHANNEL 11



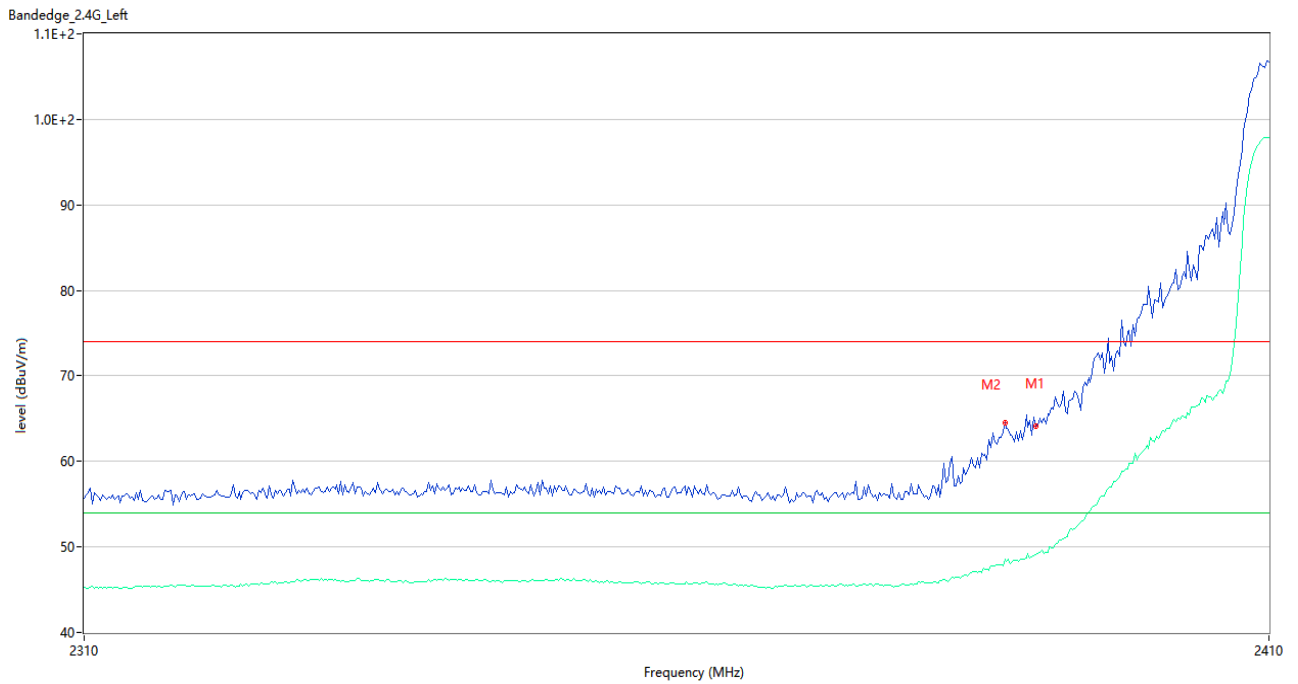
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	68.35	1.98	74.0	-5.65	Peak	171.00	150	Horizontal	Pass
1**	2483.500	50.24	1.98	54.0	-3.76	AV	171.00	150	Horizontal	Pass
2	2483.700	70.04	1.99	74.0	-3.96	Peak	176.00	150	Horizontal	Pass
2**	2483.700	50.08	1.99	54.0	-3.92	AV	176.00	150	Horizontal	Pass

802.11n20 CHANNEL 1



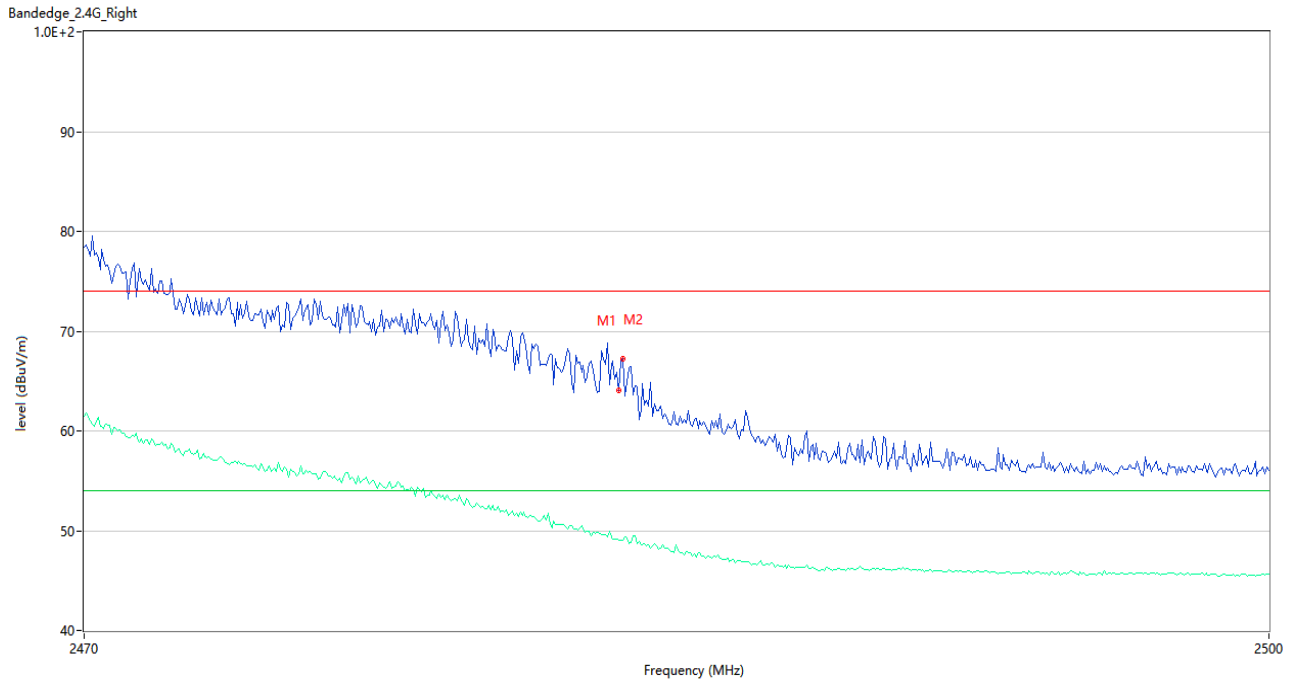
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2390.000	69.20	1.62	74.0	-4.80	Peak	182.00	150	Horizontal	Pass
1**	2390.000	50.60	1.62	54.0	-3.40	AV	182.00	150	Horizontal	Pass
2	2389.667	70.20	1.65	74.0	-3.80	Peak	180.00	150	Horizontal	Pass
2**	2389.667	50.42	1.65	54.0	-3.58	AV	180.00	150	Horizontal	Pass

802.11n20 CHANNEL 2



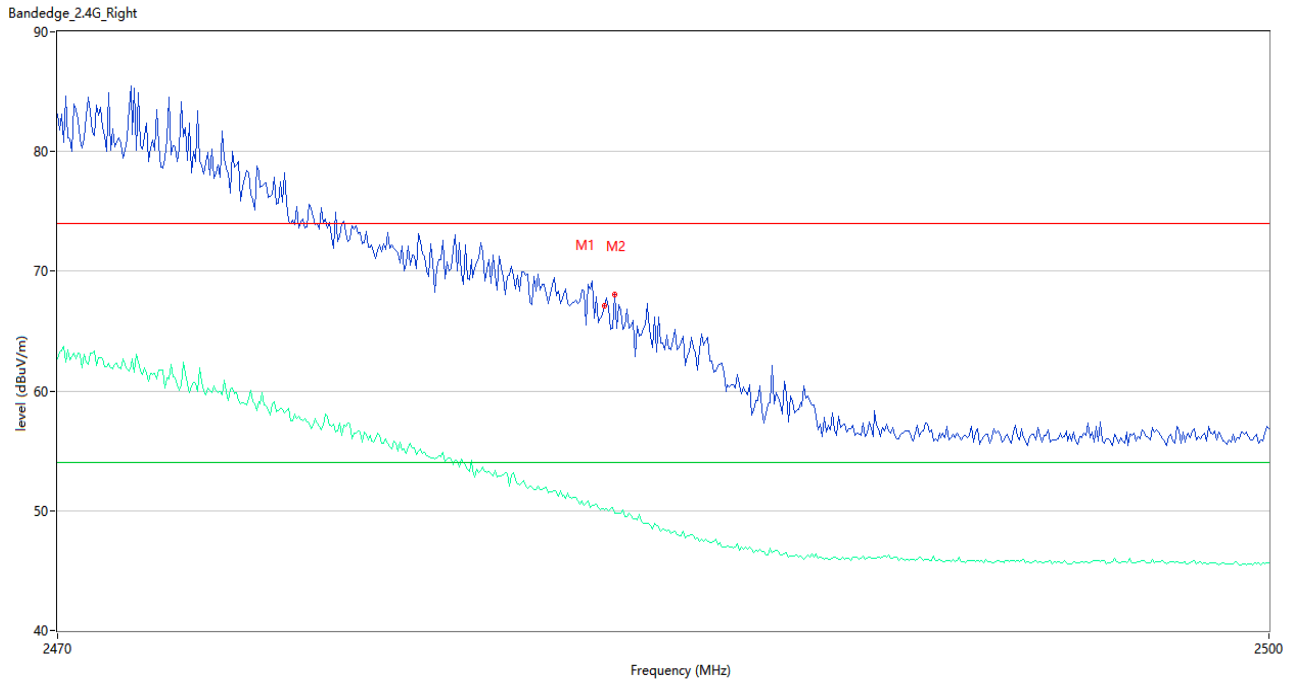
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2390.000	64.10	1.62	74.0	-9.90	Peak	152.00	150	Horizontal	Pass
1**	2390.000	49.13	1.62	54.0	-4.87	AV	152.00	150	Horizontal	Pass
2	2387.333	64.54	1.79	74.0	-9.46	Peak	202.00	150	Horizontal	Pass
2**	2387.333	48.58	1.79	54.0	-5.42	AV	202.00	150	Horizontal	Pass

802.11n20 CHANNEL 8



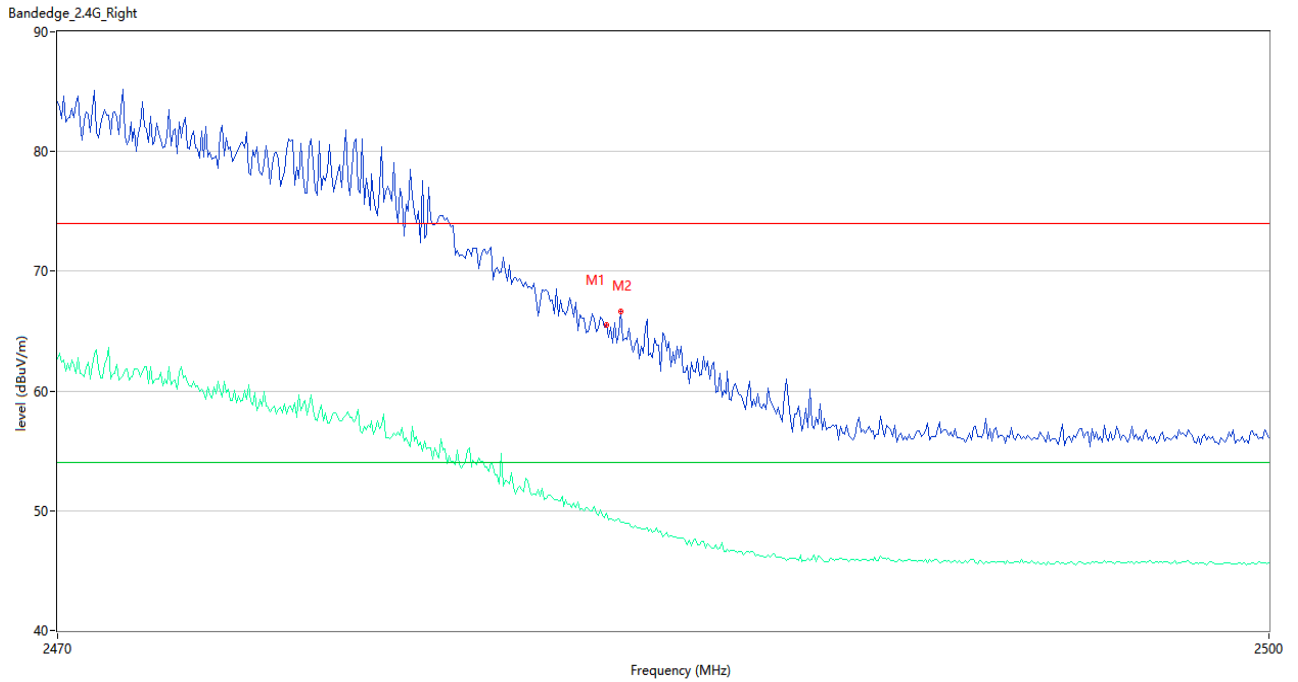
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	64.06	1.98	74.0	-9.94	Peak	169.00	150	Horizontal	Pass
1**	2483.500	49.03	1.98	54.0	-4.97	AV	169.00	150	Horizontal	Pass
2	2483.600	67.23	1.99	74.0	-6.77	Peak	176.00	150	Horizontal	Pass
2**	2483.600	49.05	1.99	54.0	-4.95	AV	176.00	150	Horizontal	Pass

802.11n20 CHANNEL 9



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	67.16	1.98	74.0	-6.84	Peak	188.00	150	Horizontal	Pass
1**	2483.500	50.04	1.98	54.0	-3.96	AV	188.00	150	Horizontal	Pass
2	2483.750	68.01	1.99	74.0	-5.99	Peak	197.00	150	Horizontal	Pass
2**	2483.750	49.82	1.99	54.0	-4.18	AV	197.00	150	Horizontal	Pass

802.11n20 CHANNEL 10



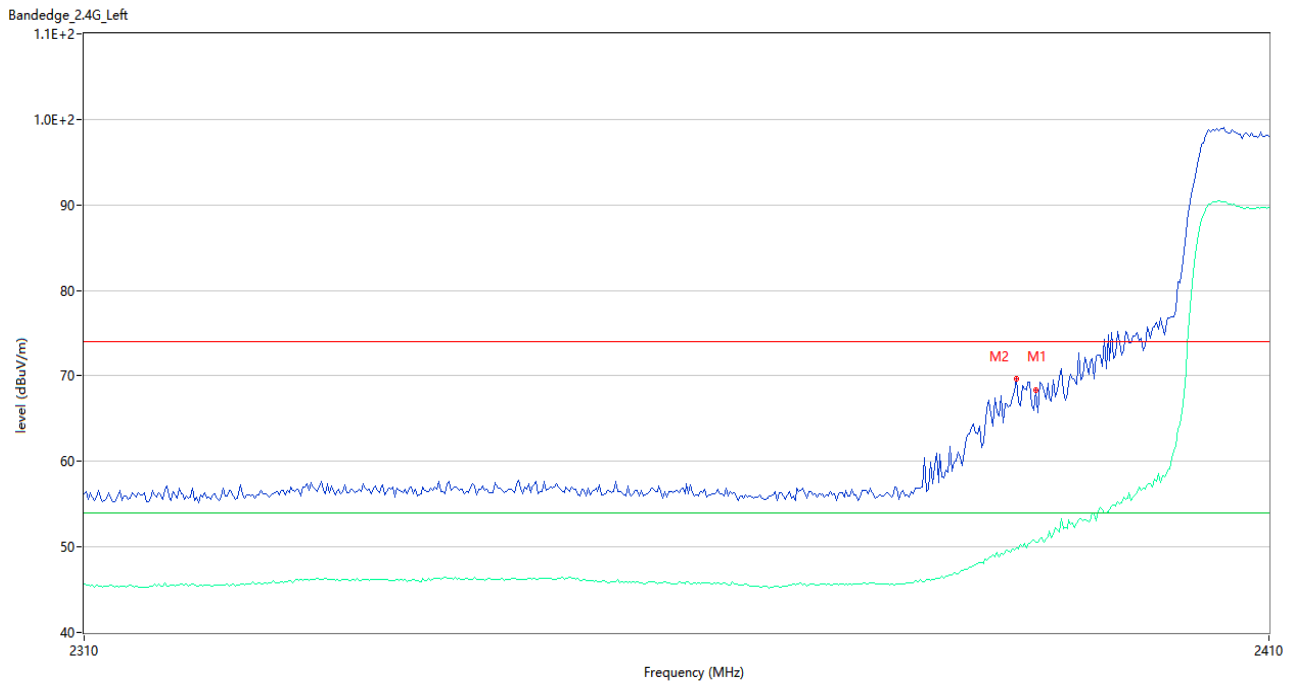
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	65.49	1.98	74.0	-8.51	Peak	179.00	150	Horizontal	Pass
1**	2483.500	49.82	1.98	54.0	-4.18	AV	179.00	150	Horizontal	Pass
2	2483.900	66.63	1.99	74.0	-7.37	Peak	179.00	150	Horizontal	Pass
2**	2483.900	49.08	1.99	54.0	-4.92	AV	179.00	150	Horizontal	Pass

802.11n20 CHANNEL 11



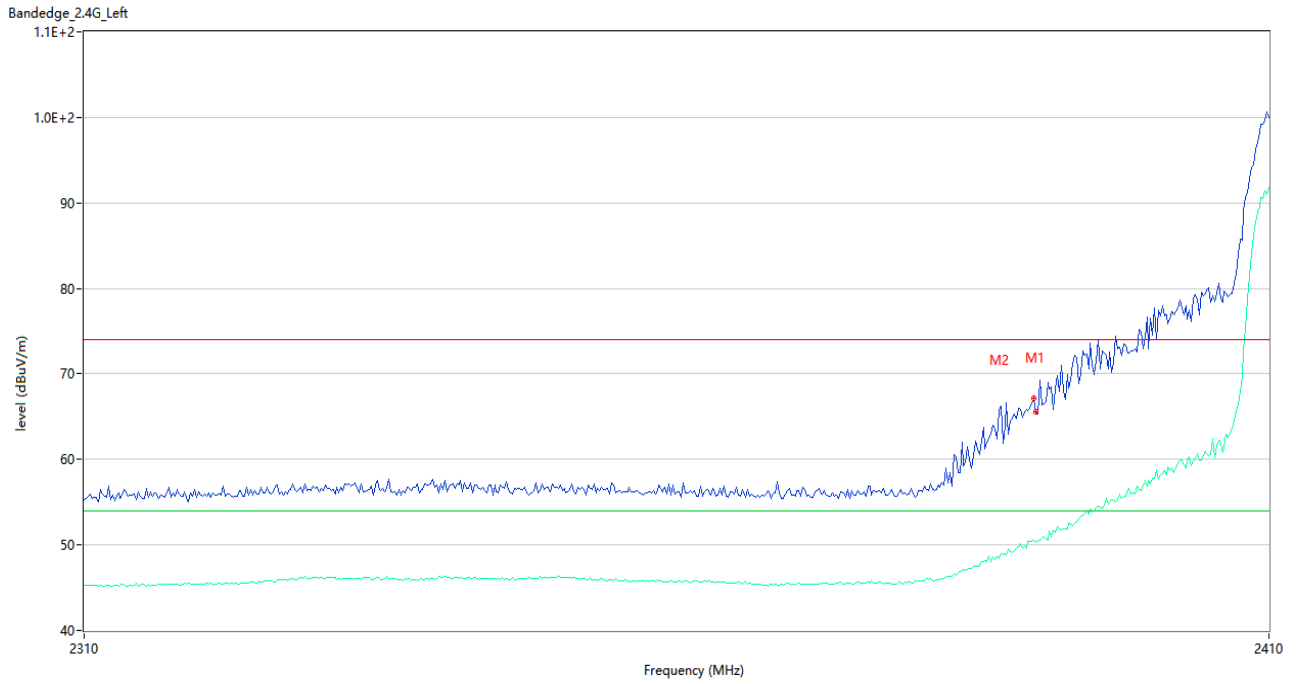
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	67.10	1.98	74.0	-6.90	Peak	167.00	150	Horizontal	Pass
1**	2483.500	49.21	1.98	54.0	-4.79	AV	167.00	150	Horizontal	Pass
2	2483.550	69.74	1.98	74.0	-4.26	Peak	167.00	150	Horizontal	Pass
2**	2483.550	48.39	1.98	54.0	-5.61	AV	167.00	150	Horizontal	Pass

802.11n40 CHANNEL 3



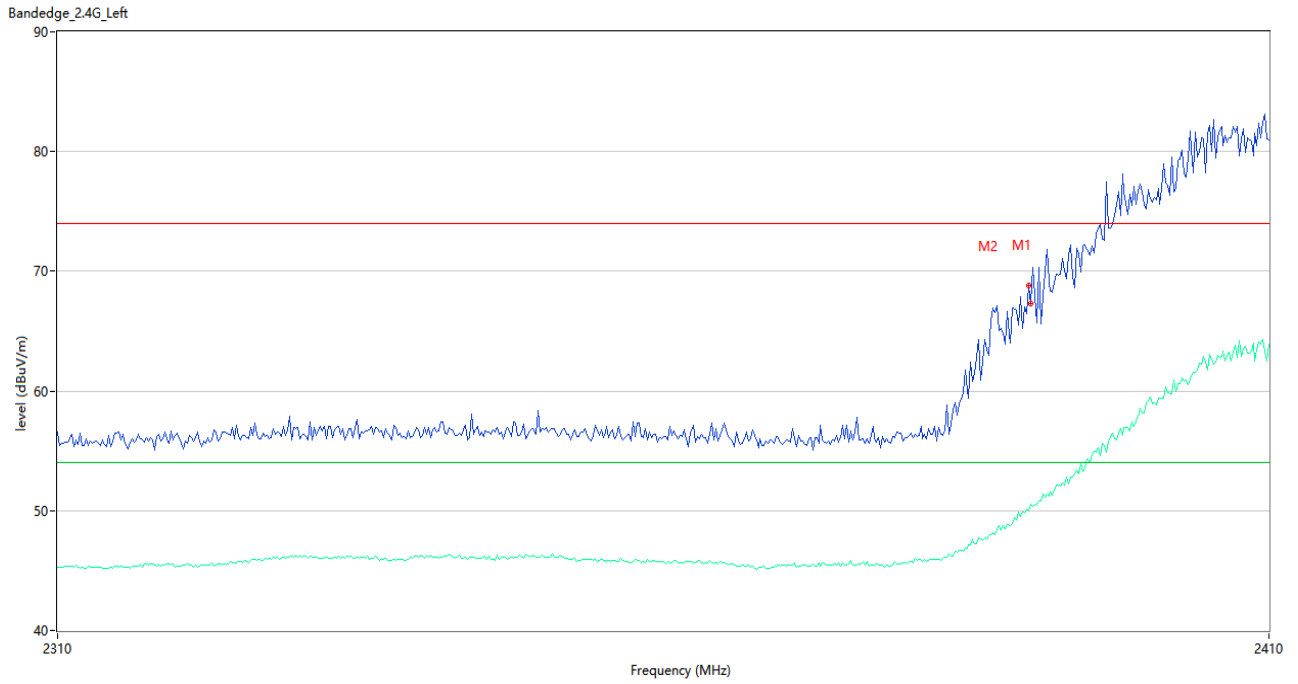
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2390.000	68.40	1.62	74.0	-5.60	Peak	178.00	150	Horizontal	Pass
1**	2390.000	50.52	1.62	54.0	-3.48	AV	178.00	150	Horizontal	Pass
2	2388.333	69.61	1.74	74.0	-4.39	Peak	164.00	150	Horizontal	Pass
2**	2388.333	49.91	1.74	54.0	-4.09	AV	164.00	150	Horizontal	Pass

802.11n40 CHANNEL 4



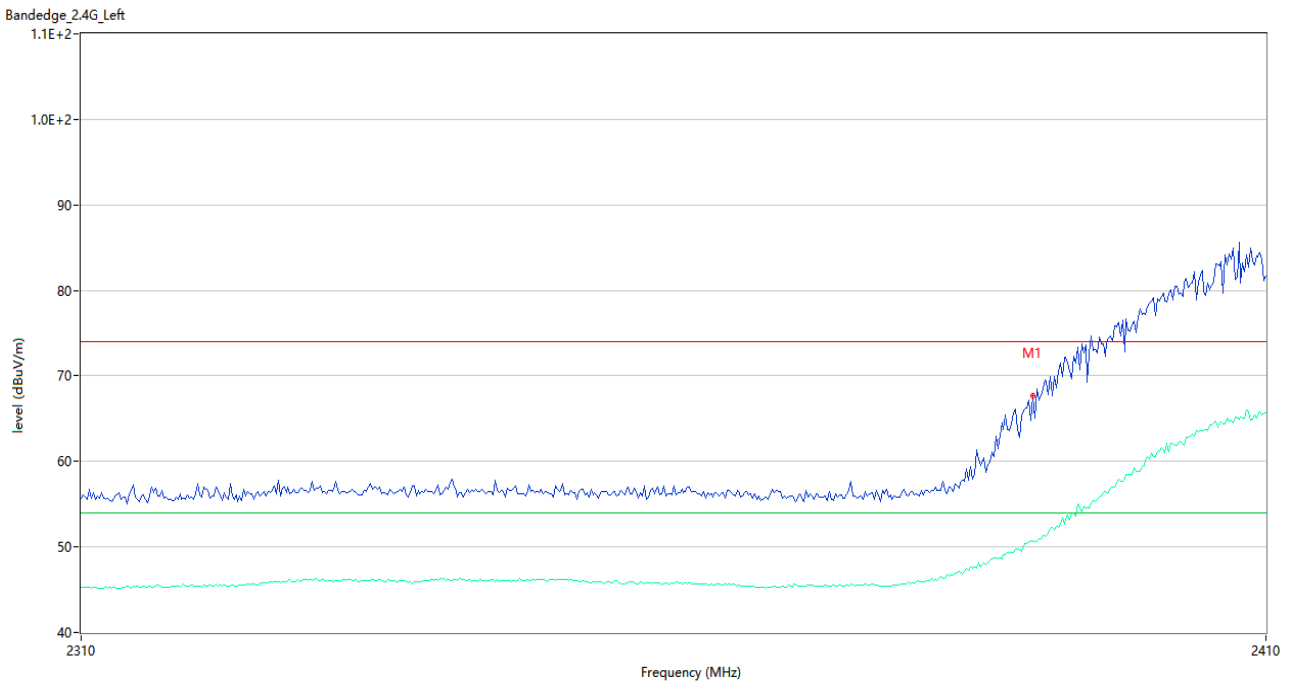
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2390.000	65.55	1.62	74.0	-8.45	Peak	188.00	150	Horizontal	Pass
1**	2390.000	50.25	1.62	54.0	-3.75	AV	188.00	150	Horizontal	Pass
2	2389.833	67.21	1.64	74.0	-6.79	Peak	203.00	150	Horizontal	Pass
2**	2389.833	50.60	1.64	54.0	-3.40	AV	203.00	150	Horizontal	Pass

802.11n40 CHANNEL 5



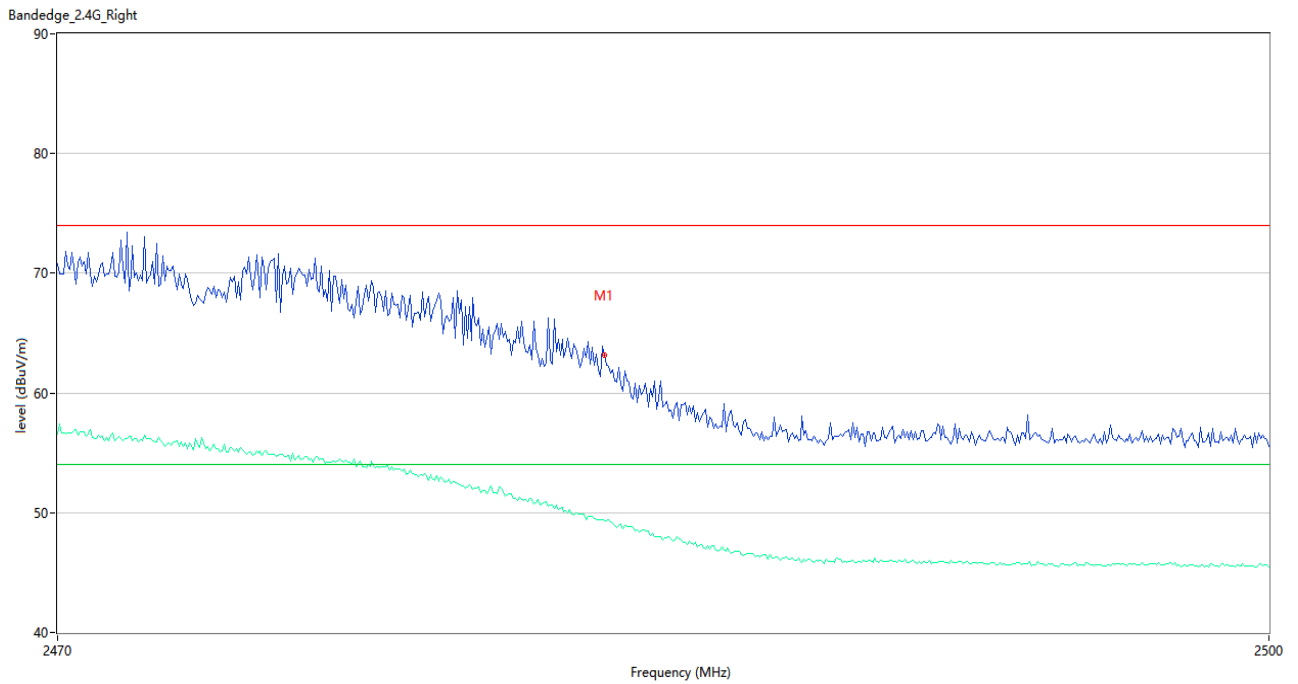
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2390.000	67.29	1.62	74.0	-6.71	Peak	186.00	150	Horizontal	Pass
1**	2390.000	50.57	1.62	54.0	-3.43	AV	186.00	150	Horizontal	Pass
2	2389.833	68.84	1.64	74.0	-5.16	Peak	168.00	150	Horizontal	Pass
2**	2389.833	49.95	1.64	54.0	-4.05	AV	168.00	150	Horizontal	Pass

802.11n40 CHANNEL 6



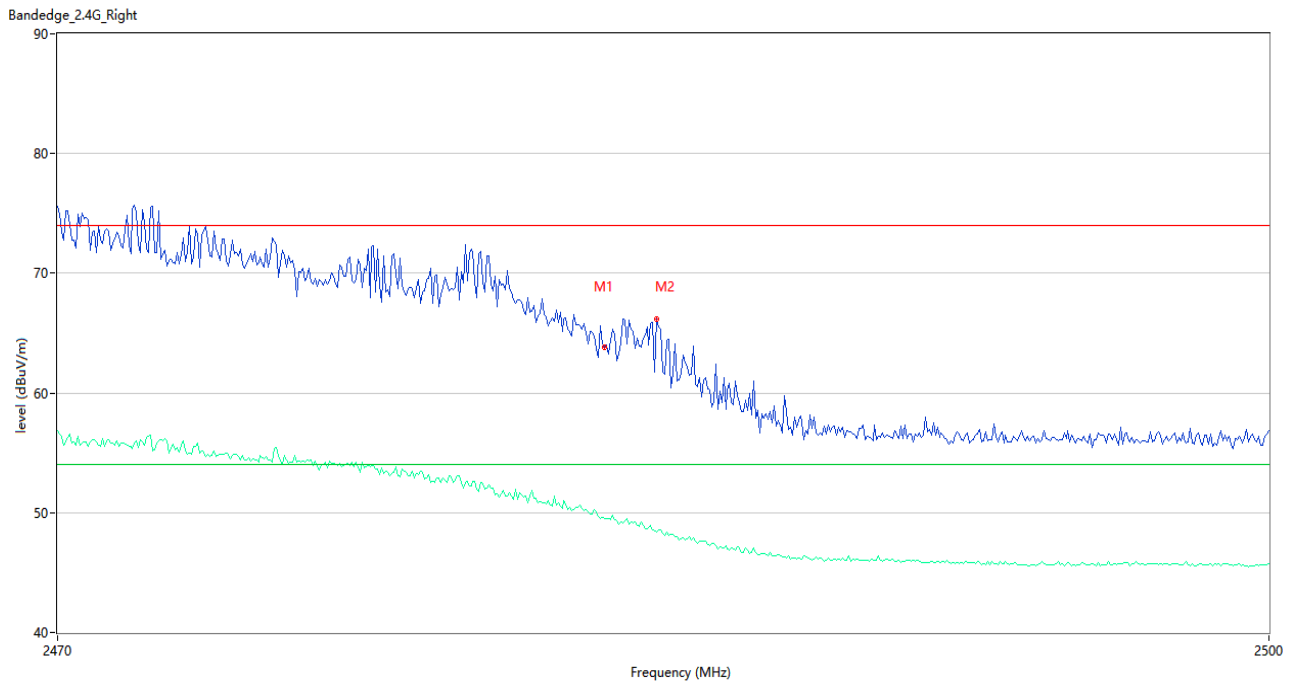
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2390.000	67.72	1.62	74.0	-6.28	Peak	195.00	150	Horizontal	Pass
1**	2390.000	50.69	1.62	54.0	-3.31	AV	195.00	150	Horizontal	Pass

802.11n40 CHANNEL 6



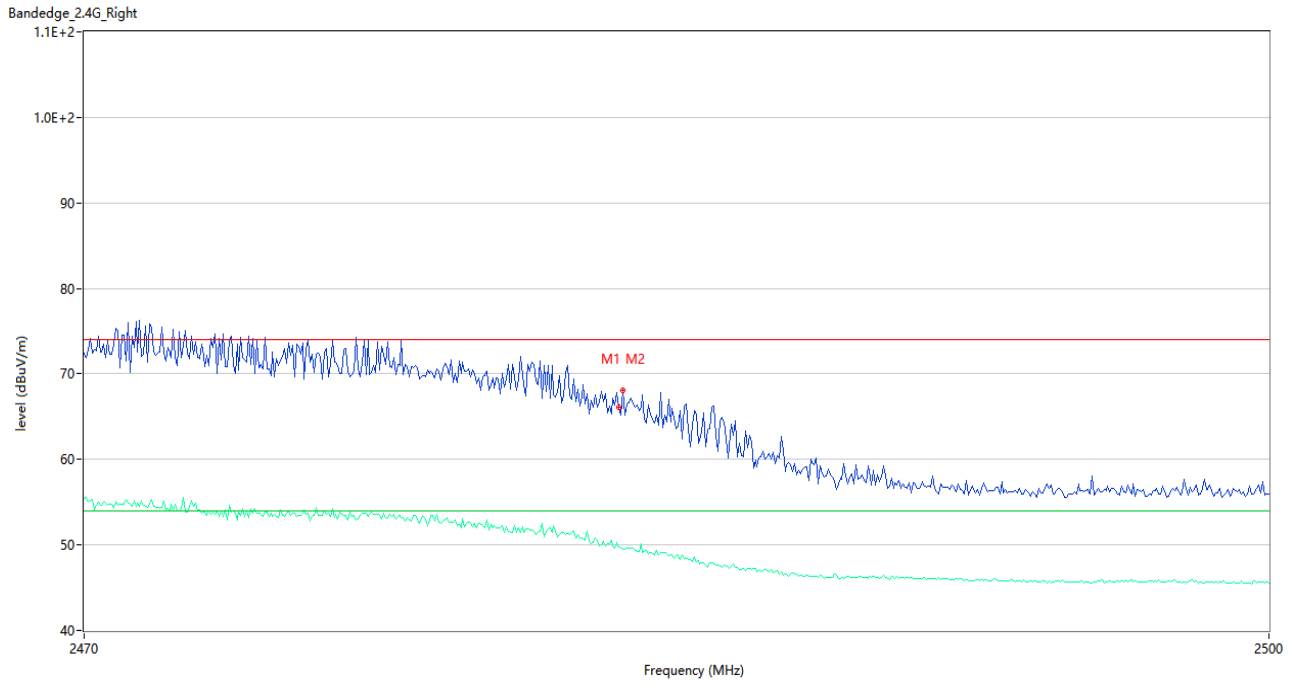
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	63.12	1.98	74.0	-10.88	Peak	200.00	150	Horizontal	Pass
1**	2483.500	49.30	1.98	54.0	-4.70	AV	200.00	150	Horizontal	Pass

802.11n40 CHANNEL 7



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	63.87	1.98	74.0	-10.13	Peak	210.00	150	Horizontal	Pass
1**	2483.500	49.51	1.98	54.0	-4.49	AV	210.00	150	Horizontal	Pass
2	2484.800	66.16	1.94	74.0	-7.84	Peak	178.00	150	Horizontal	Pass
2**	2484.800	48.40	1.94	54.0	-5.60	AV	178.00	150	Horizontal	Pass

802.11n40 CHANNEL 8



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	66.13	1.98	74.0	-7.87	Peak	162.00	150	Horizontal	Pass
1**	2483.500	49.80	1.98	54.0	-4.20	AV	162.00	150	Horizontal	Pass
2	2483.600	68.13	1.99	74.0	-5.87	Peak	206.00	150	Horizontal	Pass
2**	2483.600	49.54	1.99	54.0	-4.46	AV	206.00	150	Horizontal	Pass

802.11n40 CHANNEL 9



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	66.92	1.98	74.0	-7.08	Peak	199.00	150	Horizontal	Pass
1**	2483.500	50.35	1.98	54.0	-3.65	AV	199.00	150	Horizontal	Pass

A.8 Power Spectral Density (PSD)

Test Data

802.11b Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
1	-14.88	8
6	-14.81	8
11	-14.69	8

802.11g Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
1	-22.76	8
2	-18.94	8
6	-19.24	8
10	-18.01	8
11	-27.25	8

802.11n-20 MHz Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
1	-25.37	8
2	-19.96	8
6	-19.95	8
8	-20.35	8
9	-20.99	8
10	-23.26	8
11	-27.27	8

802.11n-40 MHz Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
3	-30.68	8
4	-29.10	8
5	-26.65	8
6	-25.29	8
7	-27.75	8
8	-28.24	8
9	-30.91	8

Test Plots

802.11b CHANNEL 1



802.11b CHANNEL 6



802.11b CHANNEL 11



802.11g CHANNEL 1



802.11g CHANNEL 2



802.11g CHANNEL 6



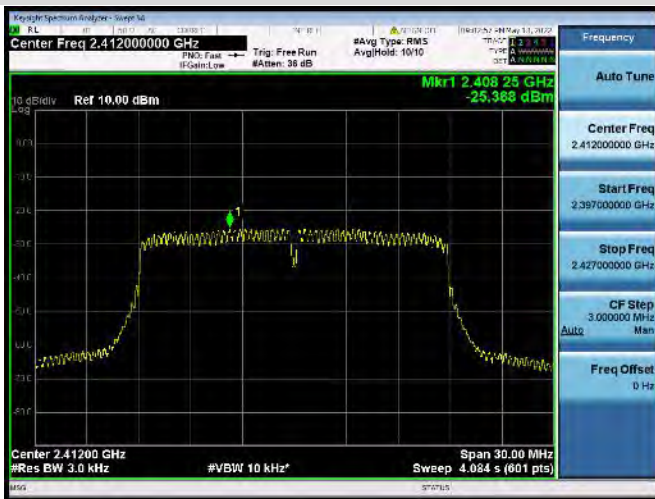
802.11g CHANNEL 10



802.11g CHANNEL 11



802.11n-20 MHz CHANNEL 1



802.11 n-20 MHz CHANNEL 2



802.11n-20 MHz CHANNEL 6



802.11n-20 MHz CHANNEL 8



802.11n-20 MHz CHANNEL 9



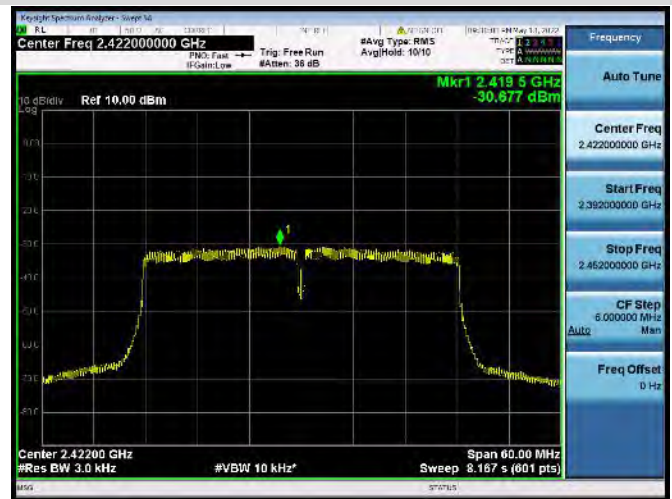
802.11n-20 MHz CHANNEL 10



802.11n-20 MHz CHANNEL 11



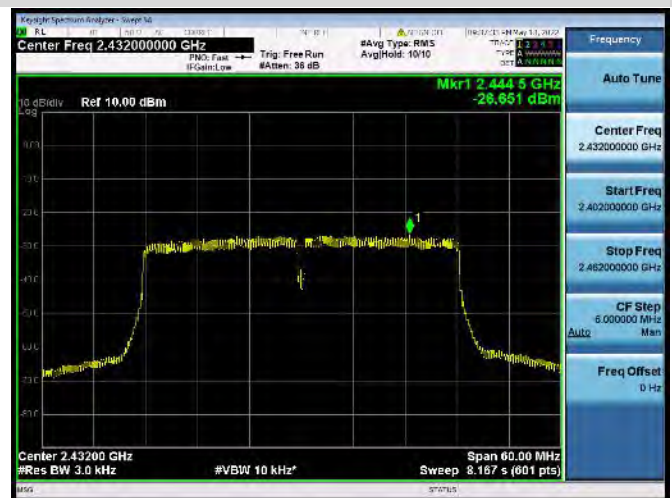
802.11n-40 MHz CHANNEL 3



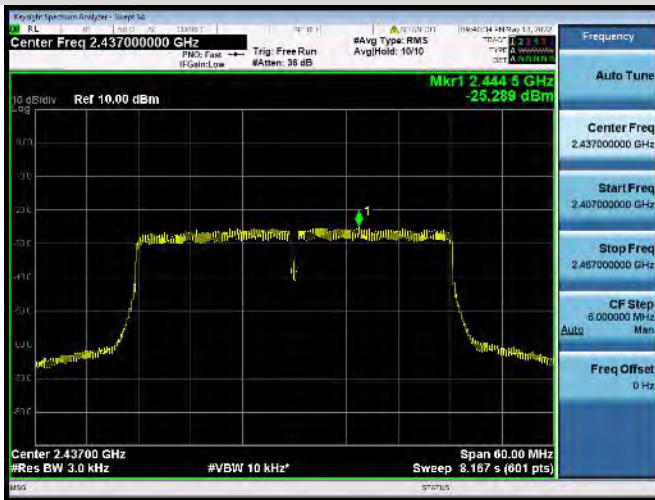
802.11n-40 MHz CHANNEL 4



802.11n-40 MHz CHANNEL 5



802.11n-40 MHz CHANNEL 6



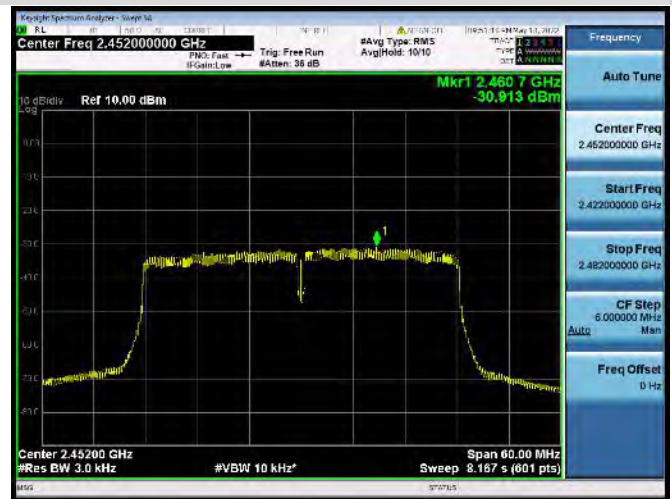
802.11n-40 MHz CHANNEL 7



802.11n-40 MHz CHANNEL 8



802.11n-40 MHz CHANNEL 9



ANNEX B TEST SETUP PHOTOS

Please refer the document “BL-SZ2240492-AR.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SZ2240492-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SZ2240492-AI.PDF”.

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--END OF REPORT--