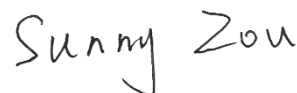
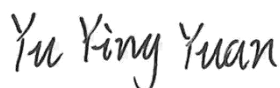


TEST REPORT

Applicant: Xiaomi Communications Co., Ltd.
Address: #019, 9th Floor, Building 6, 33 Xi'erqi Middle Road,
Haidian District, Beijing, China, 100085
Equipment Type: Tablet Computer
Model Name: 2505DRP06G
Brand Name: Redmi
FCC ID: 2AFZZRP06G
Test Standard: 47 CFR Part 15 Subpart C
(refer to section 3.1)
Sample Arrival Date: Feb. 10, 2025
Test Date: Feb. 16, 2025 - Feb. 21, 2025
Date of Issue: Mar. 12, 2025

ISSUED BY:

Shenzhen BALUN Technology Co., Ltd.

Tested by: Yu Yingyuan**Checked by:** Ye Hongji**Approved by:** Sunny Zou
(Technical Director)

Revision History

Version	Issue Date	Revisions
<u>Rev. 01</u>	<u>Mar. 12, 2025</u>	<u>Initial Issue</u>

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1 GENERAL INFORMATION

1.1 Test Laboratory

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

1.2 Test Location

Name	Shenzhen BALUN Technology Co., Ltd.
Location	☒ Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
	☐ 1/F, Building B, Ganghongji High-tech Intelligent Industrial Park, No. 1008, Songbai Road, Yangguang Community, Xili Sub-district, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Accreditation Certificate	The laboratory is a testing organization accredited by FCC as a accredited testing laboratory. The designation number is CN1196.

2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	Xiaomi Communications Co., Ltd.
Address	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

2.2 Manufacturer Information

Manufacturer	Xiaomi Communications Co., Ltd.
Address	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

2.3 General Description for Equipment under Test (EUT)

EUT Name	Tablet Computer
Model Name Under Test	2505DRP06G
Series Model Name	N/A
Description of Model name differentiation	N/A
Hardware Version	135100O84X
Software Version	Xiaomi HyperOS 2.1
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A
EUT ID	S24, S34
IMEI Number	S24: IMEI1:869433070017226; IMEI2:869433070017234
	S34: IMEI1:869433070025468; IMEI2:869433070025476

2.4 Technical Information

Network and Wireless connectivity	2G Network GSM/GPRS/EDGE 850/900/1800/1900 3G Network WCDMA/HSDPA/HSUPA Band 1/2/4/5/6/8/19 4G Network FDD LTE Band 1/2/3/4/5/7/8/13/18/19/20/26/28/66 TDD LTE Band 38/40/41 Bluetooth (BR+EDR+BLE) WIFI 802.11a, 802.11b, 802.11g, 802.11n(HT20/40) and 802.11ac(VHT20/40/80) GPS, GLONASS, Galileo, BDS, QZSS, FM Receiver
-----------------------------------	--

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.
Modulation Type	DSSS, OFDM
Product Type	☐ Mobile ☒ Portable ☐ Fix Location
Antenna System (eg., MIMO, Smart Antenna)	N/A
Categorization as Correlated or Completely Uncorrelated	N/A
Antenna Type	PIFA Antenna
Antenna Gain	-2.3 dBi
About the Product	Only the WIFI 802.11b, 802.11g, 802.11n (HT20), 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

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

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

3 SUMMARY OF TEST RESULTS

3.1 Test Standards

No.	Identity	Document Title
1	47 CFR Part 15, Subpart C	Intentional radiators of radio frequency equipment
2	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	Occupied Bandwidth	15.247 (a)	ANNEX A.2	Pass
4	Conducted Spurious Emission	15.247 (d)	ANNEX A.3	Pass
5	Band Edge(Authorized-band band-edge)	15.247 (d)	ANNEX A.4	Pass
6	Conducted Emission	15.207	ANNEX A.5	Pass
7	Radiated Spurious Emission	15.209; 15.247 (d)	ANNEX A.6	Pass
8	Band Edge(Restricted-band band-edge)	15.209; 15.247 (d)	ANNEX A.7	Pass
9	Power spectral density (PSD)	15.247 (e)	ANNEX A.8	Pass

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

4 GENERAL TEST CONFIGURATIONS

4.1 Test Environments

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

Relative Humidity	36% to 64%	
Atmospheric Pressure	100 kPa to 102 kPa	
Temperature	NT (Normal Temperature)	+21.4℃ to +25.0℃
Working Voltage of the EUT	NV (Normal Voltage)	3.84 V

4.2 Test Equipment List

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer	ROHDE&SCHWARZ	FSV-40	101544	2024.12.16	2025.12.15
Spectrum Analyzer	KEYSIGHT	N9020A	MY56060183	2024.08.01	2025.07.31
Signaling Unit	ROHDE&SCHWARZ	CMW500	142028	2024.05.08	2025.05.07
Power Sensor	KEYSIGHT	U2063XA	MY58000251	2024.07.04	2025.07.03
Spectrum Analyzer	KEYSIGHT	N9020A	MY52510065	2024.08.01	2025.07.31
Signaling Unit	ROHDE&SCHWARZ	CMW500	171150	2024.05.22	2025.05.21
Test Antenna-Horn	SCHWARZBECK	BBHA 9120D	01631	2022.02.23	2025.02.22
Test Antenna-Horn	A-INFO	LB-180400KF	J211060273	2024.06.15	2027.06.14
Anechoic Chamber	RAINFORD	9m*6m*6m	144	2022.02.19	2025.09.03
Amplifier	COM-MV	LSCX_LNA1-12G-01	180602	2024.08.01	2025.07.31
Amplifier	COM-MV	XKu_LNA7-18G-01	180601	2024.08.01	2025.07.31
Amplifier	COM-MV	KA LNA18 40G-01	18050001	2024.12.05	2025.12.04
EMI Receiver	ROHDE&SCHWARZ	ESRP	101036	2024.08.01	2025.07.31
Test Antenna-Bi-Log	SCHWARZBECK	VULB 9168	9168-01162	2023.08.04	2026.08.03
Test Antenna-Loop	SCHWARZBECK	FMZB 1519	1519-037	2024.01.23	2027.01.22
Amplifier	COM-MV	ZT30-1000M	B2018054558	2024.11.28	2025.11.27
Anechoic Chamber	EMC Electronic Co., Ltd	20.10*11.60*7.35m	130	2024.07.13	2027.07.12
EMI Receiver	KEYSIGHT	N9010B	MY57110309	2024.08.01	2025.07.31
LISN	SCHWARZBECK	NSLK 8127	8127-687	2024.05.09	2025.05.08
Shielded Enclosure	YiHeng Electronic Co., Ltd	3.5m*3.1m*2.8m	112	2022.02.19	2025.02.18
				2025.02.18	2026.02.17

4.3 Test Software List

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

4.4 Measurement Uncertainty

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

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

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

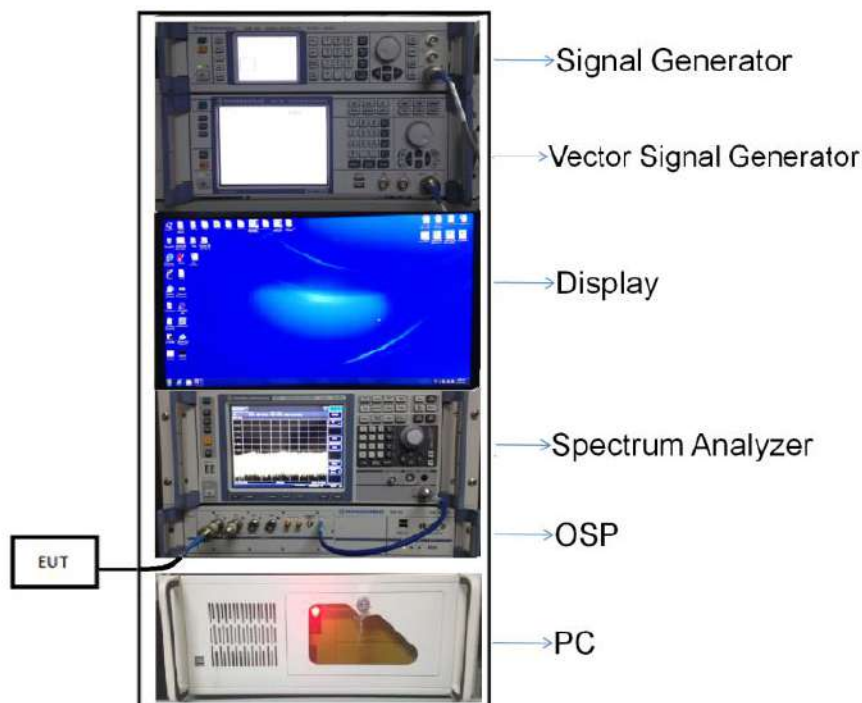
4.5 Description of Test Setup

4.5.1 For Antenna Port Test

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

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

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



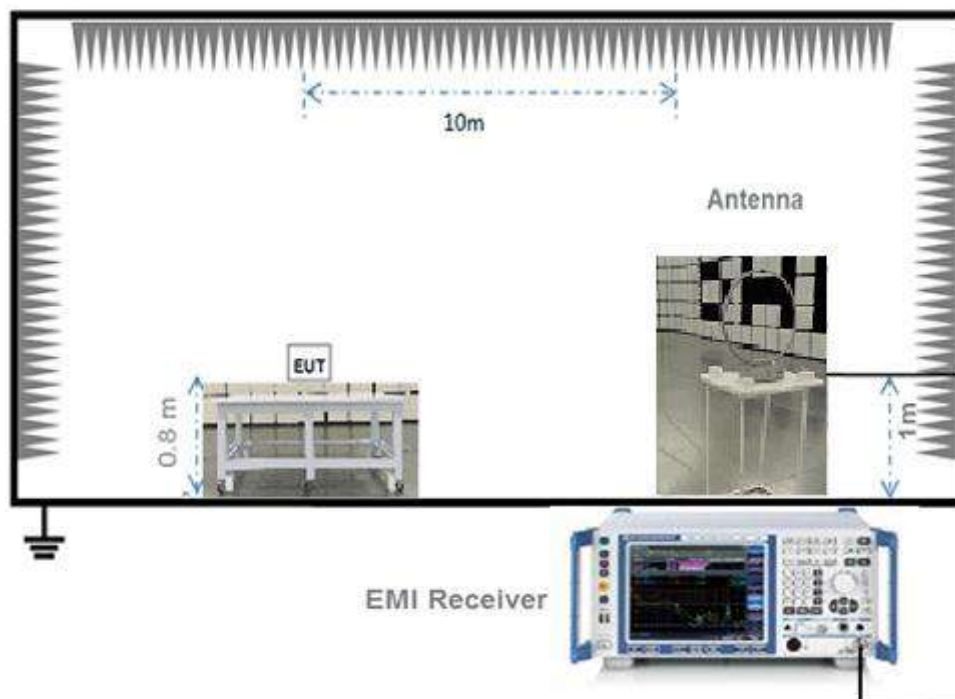
(Diagram 1)

4.5.2 For AC Power Supply Port Test



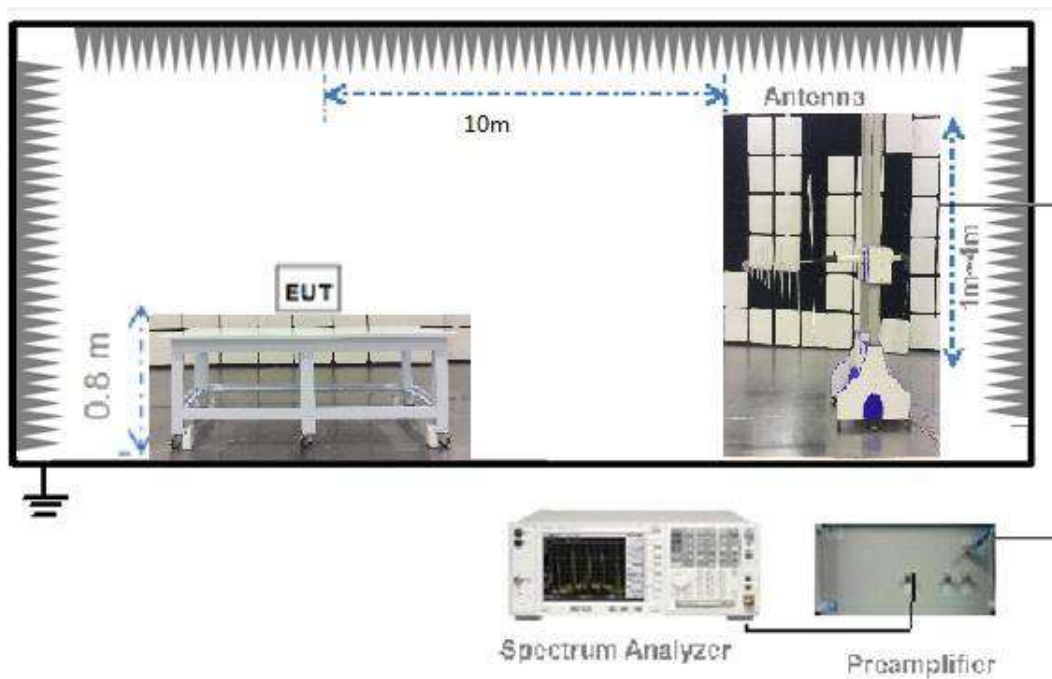
(Diagram 2)

4.5.3 For Radiated Test (Below 30 MHz)



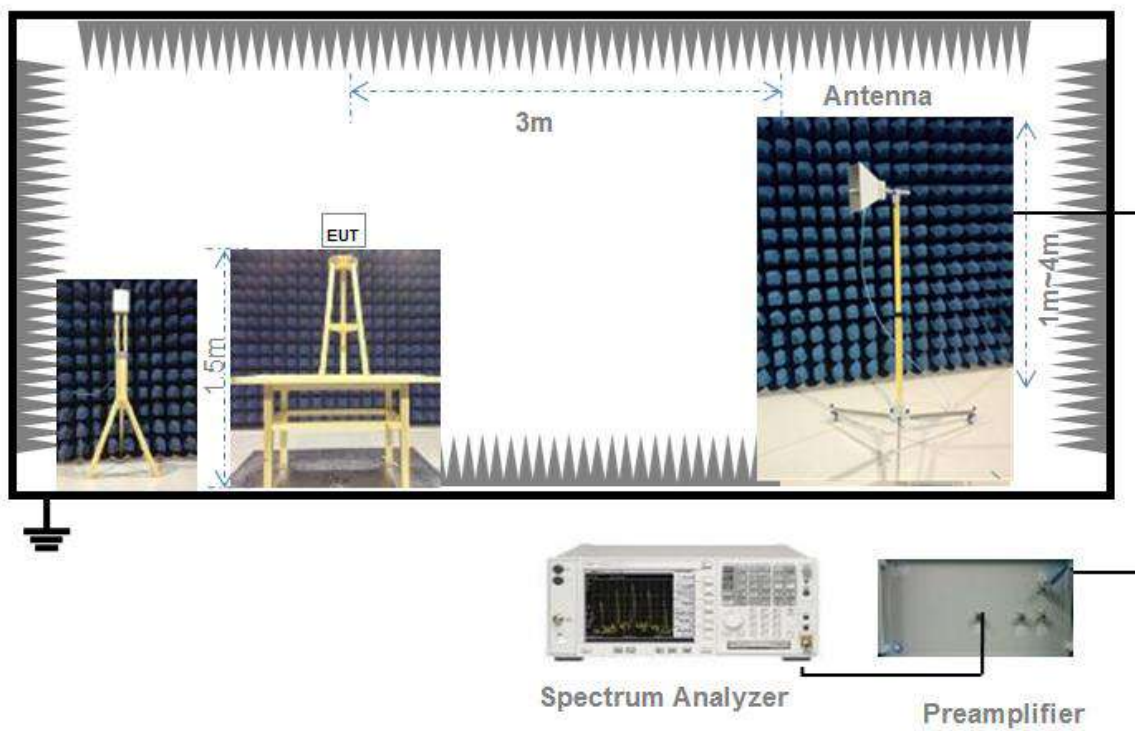
(Diagram 3)

4.5.4 For Radiated Test (30 MHz-1 GHz)



(Diagram 4)

4.5.5 For Radiated Test (Above 1 GHz)



(Diagram 5)

4.6 Measurement Results Explanation Example

4.6.1 For conducted test items:

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

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

Offset = RF cable loss + attenuator factor.

4.6.2 For radiated band edges and spurious emission test:

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

where:

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

EIRP = equivalent isotropic radiated power in dBm

D = specified measurement distance in meters.

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

5 TEST ITEMS

5.1 Antenna Requirements

5.1.1 Relevant Standards

FCC §15.203

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

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

5.1.2 Antenna Anti-Replacement Construction

The Antenna Anti-Replacement as following method:

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

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

5.1.3 Antenna Gain

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

5.2 Output Power

5.2.1 Test Limit

FCC § 15.247(b)

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

5.2.2 Test Setup

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

5.2.3 Test Procedure

Maximum peak conducted output power

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

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

Maximum conducted (average) output power (Reporting Only)

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

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

Measurements of duty cycle

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

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

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

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

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

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

5.2.4 Test Result

Please refer to ANNEX A.1.

5.3 Occupied Bandwidth

5.3.1 Limit

FCC §15.247(a)

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

5.3.2 Test Setup

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

5.3.3 Test Procedure

Use the following spectrum analyzer settings:

Set RBW = 100 kHz.

Set the video bandwidth (VBW) ≥ 3 RBW.

Detector = Peak.

Trace mode = max hold.

Sweep = auto couple.

Allow the trace to stabilize.

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

5.3.4 Test Result

Please refer to ANNEX A.2.

5.4 Conducted Spurious Emission

5.4.1 Limit

FCC §15.247(d)

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 $[10 \log (\text{OBW/RBW})]$ 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 (μV/m)	Measurement Distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 - 30.0	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

Note:

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

5.7.2 Test Setup

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

5.7.3 Test Procedure

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

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

General Procedure for conducted measurements in restricted bands

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

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

where:

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

EIRP = equivalent isotropic radiated power in dBm

D = specified measurement distance in meters.

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

Quasi-Peak measurement procedure

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

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

Peak power measurement procedure

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

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

longer for low duty cycle applications).

Table 1—RBW as a function of frequency

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

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

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

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

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

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

Determining the applicable transmit antenna gain

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

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

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

Radiated spurious emission test

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

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

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

The power of the EUT transmitting frequency should be ignored.

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

Use the following spectrum analyzer settings:

Span = wide enough to fully capture the emission being measured

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

VBW $\geq$ RBW

Sweep = auto

Detector function = peak

Trace = max hold

5.7.4 Test Result

Please refer to ANNEX A.6.

5.8 Band Edge (Restricted-band band-edge)

5.8.1 Limit

FCC §15.209&15.247(d)

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

5.8.2 Test Setup

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

5.8.3 Test Procedure

The 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	8.38	8.41	99.60%
802.11g	1.39	1.43	97.27%
802.11n-20 MHz	1.30	1.34	97.00%

Peak Power Test Data

802.11b Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
CH 1	20.46	111.17	30	1000	Pass
CH 6	20.43	110.41			Pass
CH 11	20.91	123.31			Pass

802.11g Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
CH 1	21.13	129.72	30	1000	Pass
CH 2	21.76	149.97			Pass
CH 3	23.69	233.88			Pass
CH 4	24.74	297.85			Pass
CH 6	24.73	297.17			Pass
CH 9	24.66	292.42			Pass
CH 10	23.71	234.96			Pass
CH 11	18.15	65.31			Pass

802.11n-20 MHz Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
CH 1	19.95	98.86	30	1000	Pass
CH 2	21.25	133.35			Pass
CH 3	23.48	222.84			Pass
CH 4	24.48	280.54			Pass
CH 6	24.63	290.40			Pass
CH 9	24.57	286.42			Pass
CH 10	23.53	225.42			Pass
CH 11	19.17	82.60			Pass

Average Power Test Data

802.11b Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
CH 1	17.44	55.46	30	1000	Pass
CH 6	17.48	55.98			Pass
CH 11	17.98	62.81			Pass

802.11g Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
CH 1	14.70	29.51	30	1000	Pass
CH 2	15.36	34.36			Pass
CH 3	17.29	53.58			Pass
CH 4	18.37	68.71			Pass
CH 6	18.23	66.53			Pass
CH 9	18.42	69.50			Pass
CH 10	17.27	53.33			Pass
CH 11	11.71	14.83			Pass

802.11n-20 MHz Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
CH 1	13.55	22.65	30	1000	Pass
CH 2	14.82	30.34			Pass
CH 3	17.05	50.70			Pass
CH 4	18.29	67.45			Pass
CH 6	18.15	65.31			Pass
CH 9	18.35	68.39			Pass
CH 10	17.12	51.52			Pass
CH 11	12.76	18.88			Pass

A.2 Occupied Bandwidth

Test Data

802.11b Mode:

Channel	6 dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limits (kHz)
CH 1	8.150	12.955	≥ 500
CH 6	8.600	13.025	≥ 500
CH 11	8.100	13.048	≥ 500

802.11g Mode:

Channel	6 dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limits (kHz)
CH 1	15.400	17.194	≥ 500
CH 6	15.500	17.374	≥ 500
CH 11	15.200	17.077	≥ 500

802.11n-20MHz Mode:

Channel	6 dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limits (kHz)
CH 1	15.200	17.996	≥ 500
CH 6	15.200	18.307	≥ 500
CH 11	15.200	17.967	≥ 500

Test Plots

6 dB Bandwidth

802.11b CHANNEL 1



802.11b CHANNEL 6



802.11b CHANNEL 11



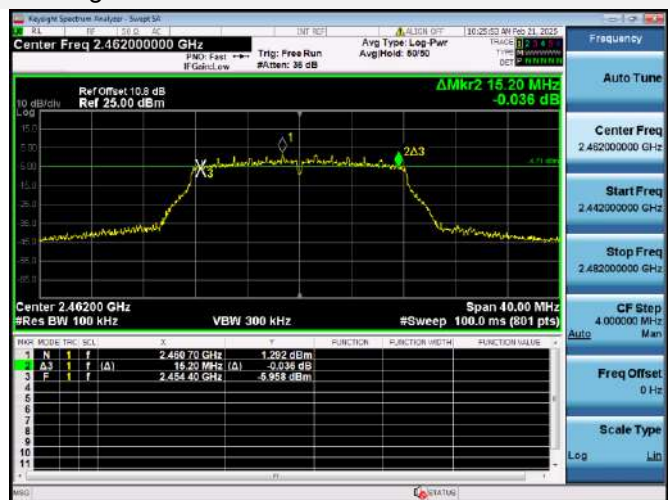
802.11g CHANNEL 1



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



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



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	
CH 1	-37.39	9.33	-10.67	Pass
CH 6	-38.34	9.36	-10.64	Pass
CH 11	-37.38	9.66	-10.34	Pass

802.11g Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
CH 1	-37.24	4.81	-15.19	Pass
CH 2	-36.47	5.43	-14.57	Pass
CH 3	-36.40	7.40	-12.60	Pass
CH 4	-38.34	8.35	-11.65	Pass
CH 6	-37.07	8.59	-11.41	Pass
CH 9	-37.89	8.41	-11.59	Pass
CH 10	-37.00	7.53	-12.47	Pass
CH 11	-37.26	1.86	-18.14	Pass

802.11n-20MHz Mode:

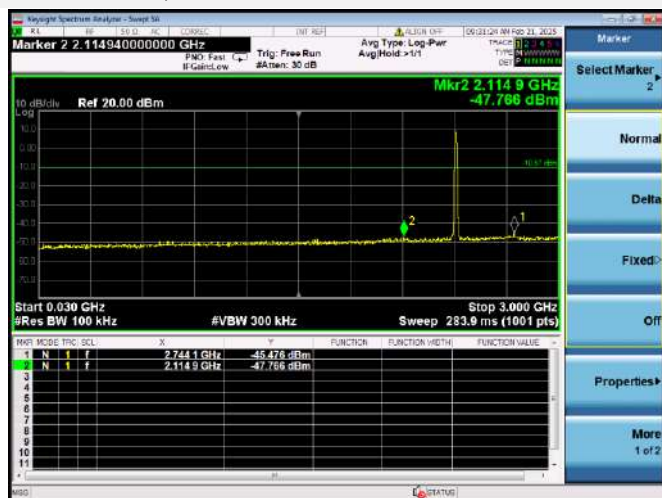
Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
CH 1	-37.24	3.83	-16.17	Pass
CH 2	-37.69	4.98	-15.02	Pass
CH 3	-37.92	6.94	-13.06	Pass
CH 4	-36.72	8.41	-11.59	Pass
CH 6	-37.63	8.45	-11.55	Pass
CH 9	-37.66	8.44	-11.56	Pass
CH 10	-37.27	7.43	-12.57	Pass
CH 11	-37.41	3.06	-16.94	Pass

Test Plots

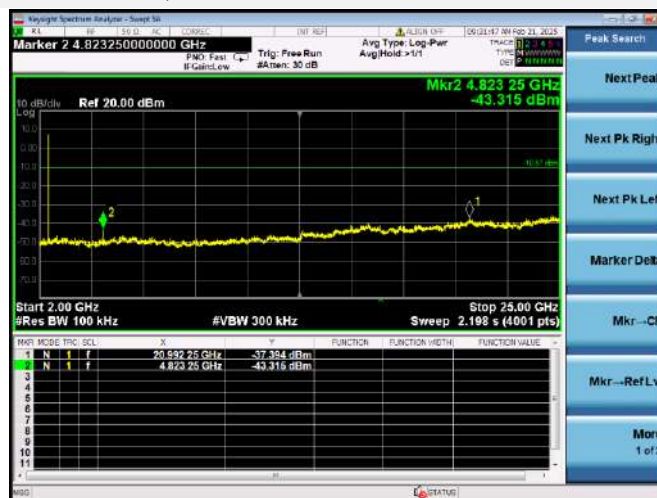
802.11b CH1 CARRIER LEVEL



802.11b CH1, SPURIOUS 30 MHz ~ 3 GHz



802.11b CH1, SPURIOUS 2 GHz ~ 25 GHz

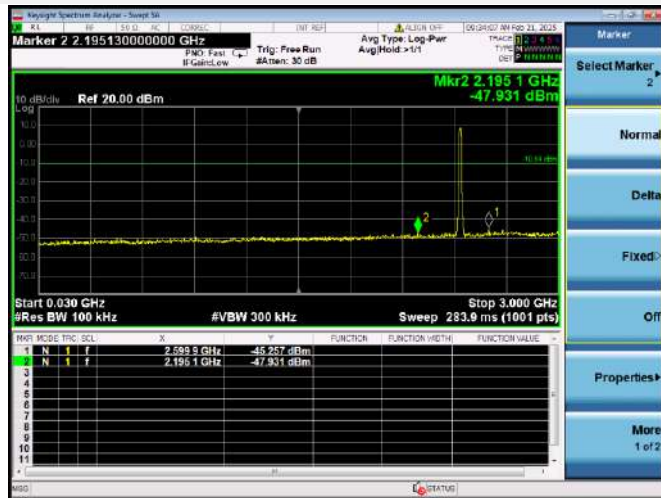


802.11b CH6 CARRIER LEVEL



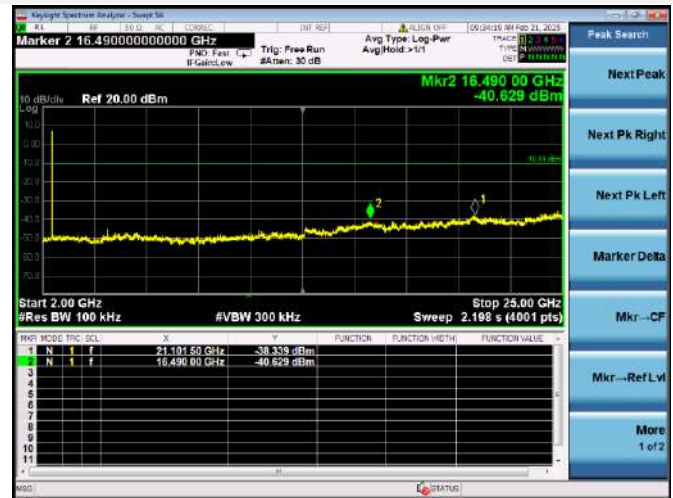
802.11b CH6, SPURIOUS

30 MHz ~ 3 GHz

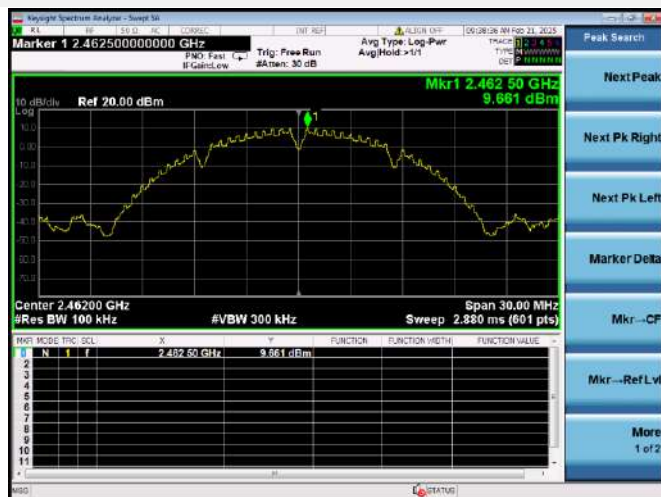


802.11b CH6, SPURIOUS

2 GHz ~ 25 GHz

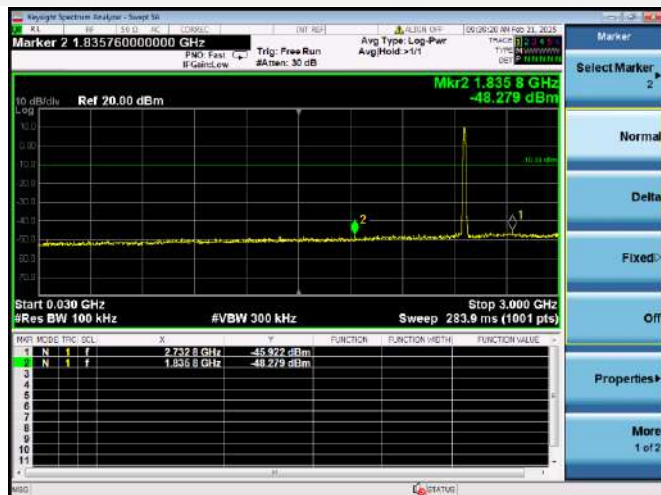


802.11b CH11 CARRIER LEVEL



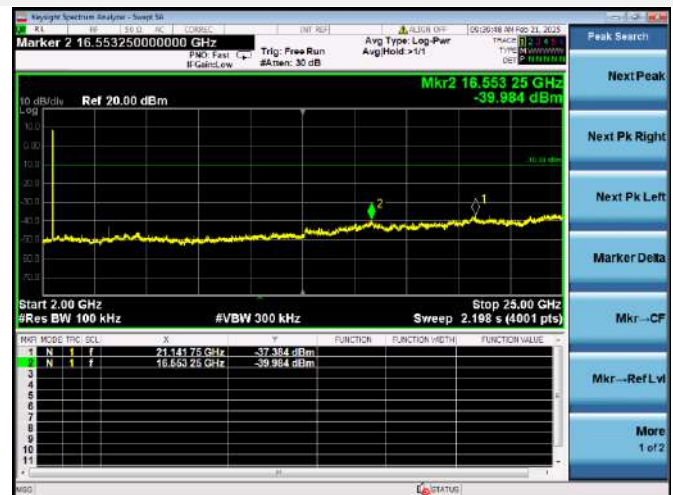
802.11b CH11, SPURIOUS

30 MHz ~ 3 GHz

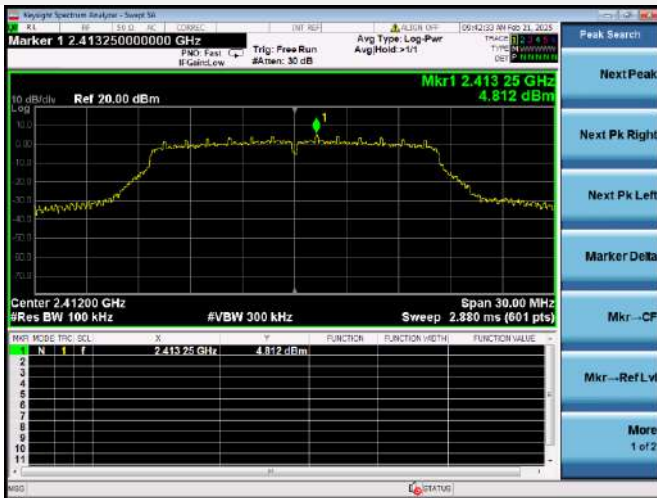


802.11b CH11, SPURIOUS

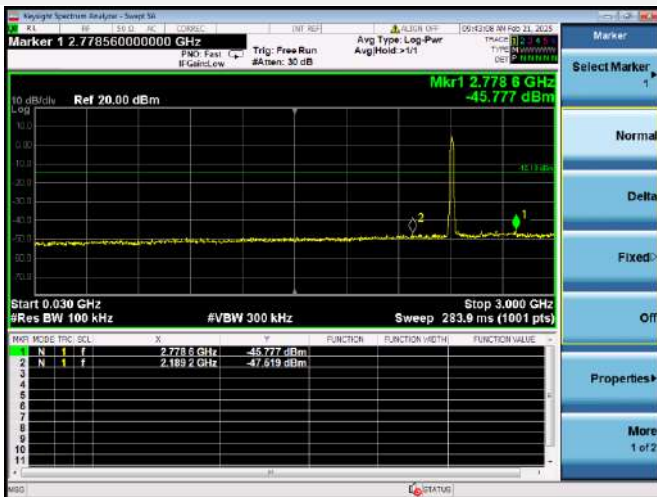
2 GHz ~ 25 GHz



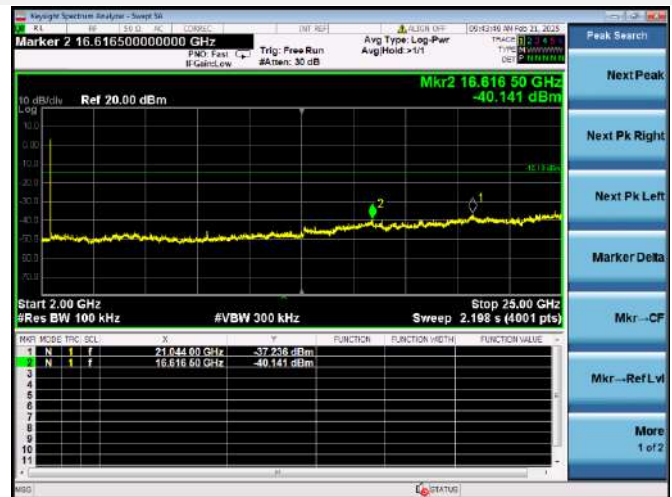
802.11g CH1 CARRIER LEVEL



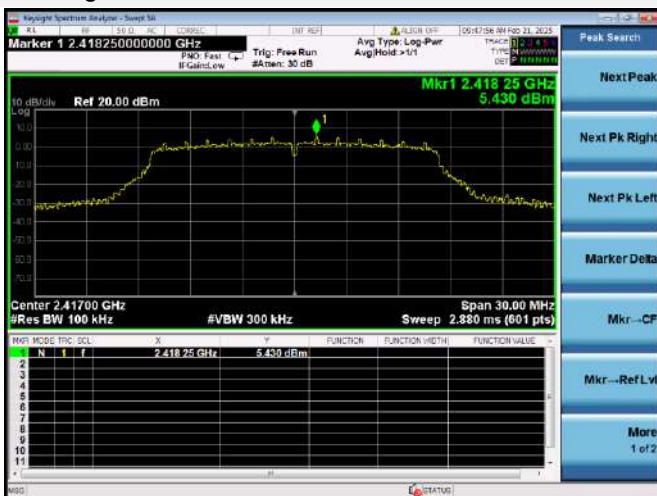
802.11g CH1, SPURIOUS 30 MHz ~ 3 GHz



802.11g CH1, SPURIOUS 2 GHz ~ 25 GHz

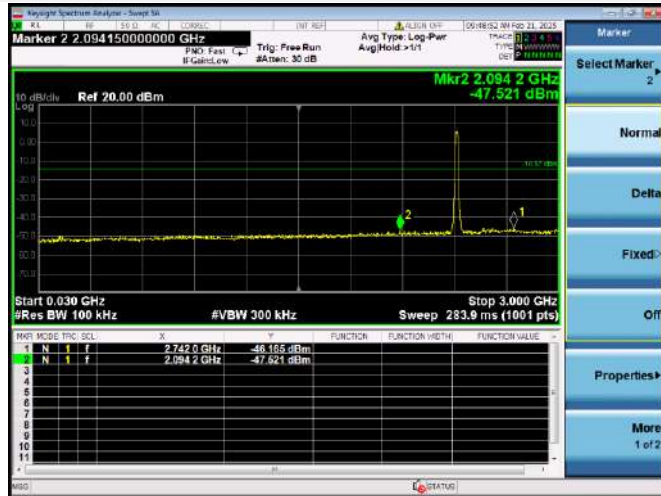


802.11g CH2 CARRIER LEVEL



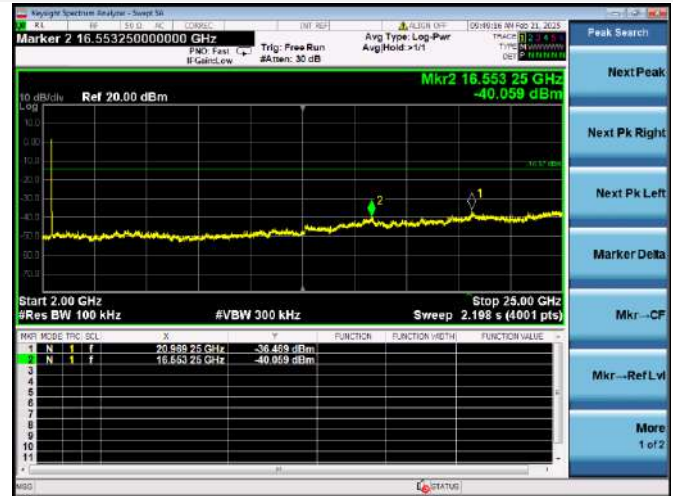
802.11g CH2, SPURIOUS

30 MHz ~ 3 GHz

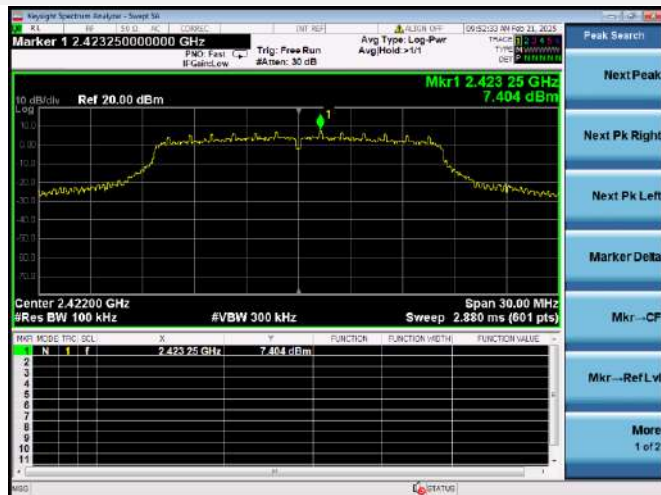


802.11g CH2, SPURIOUS

2 GHz ~ 25 GHz

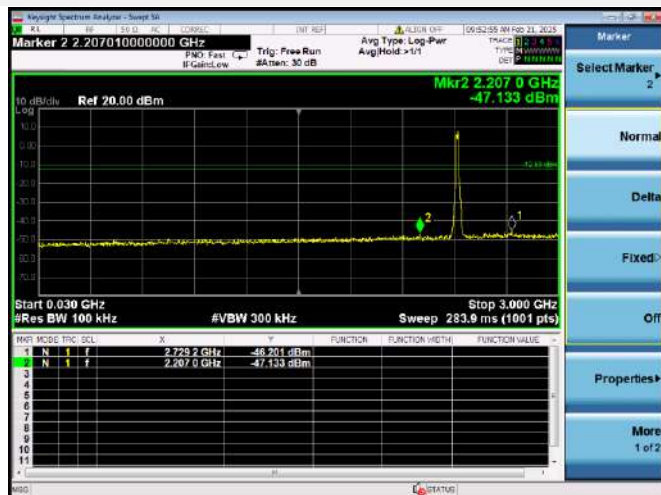


802.11g CH3 CARRIER LEVEL



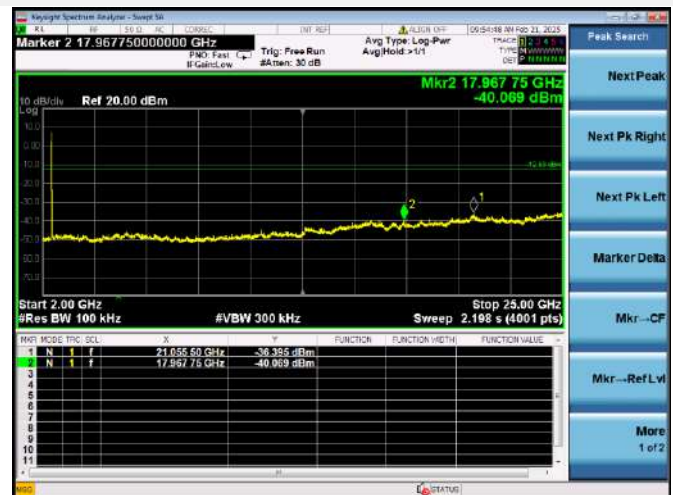
802.11g CH3, SPURIOUS

30 MHz ~ 3 GHz

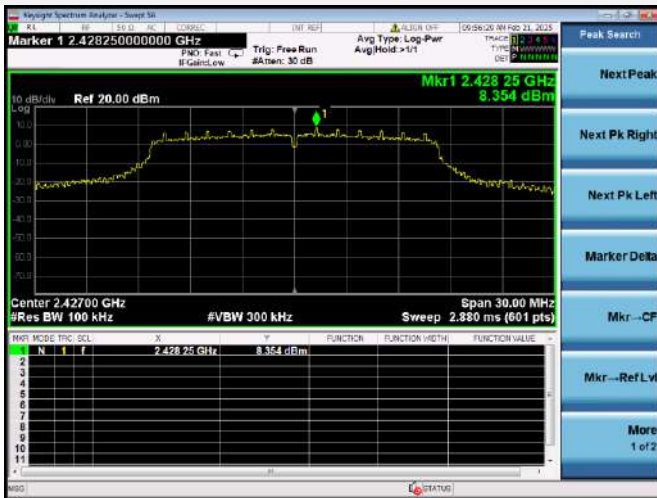


802.11g CH3, SPURIOUS

2 GHz ~ 25 GHz

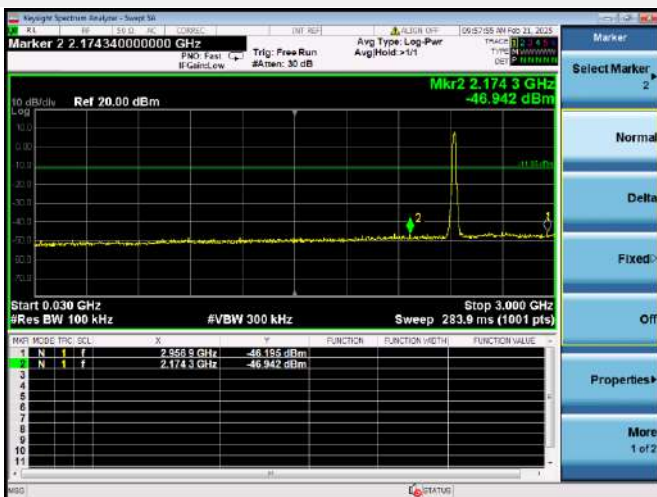


802.11g CH4 CARRIER LEVEL



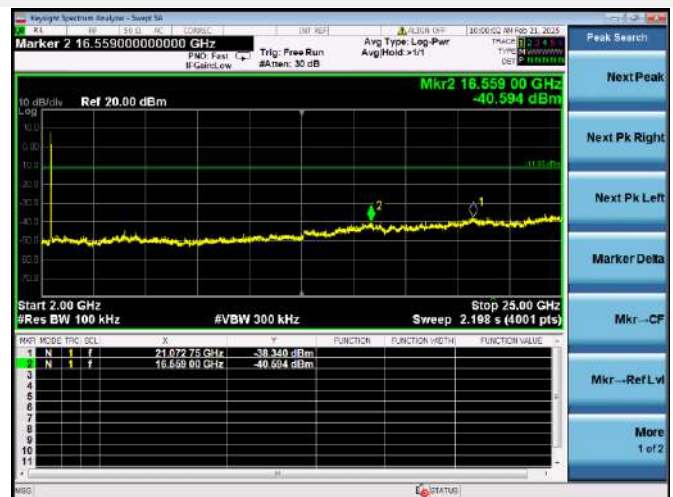
802.11g CH4, SPURIOUS

30 MHz ~ 3 GHz



802.11g CH4, SPURIOUS

2 GHz ~ 25 GHz

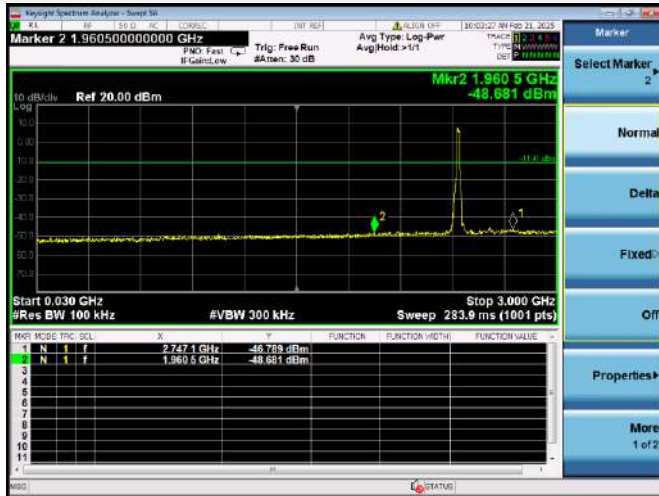


802.11g CH6 CARRIER LEVEL



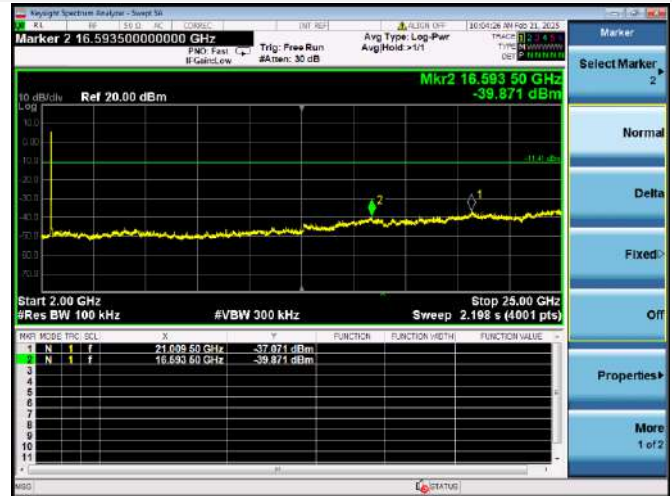
802.11g CH6, SPURIOUS

30 MHz ~ 3 GHz

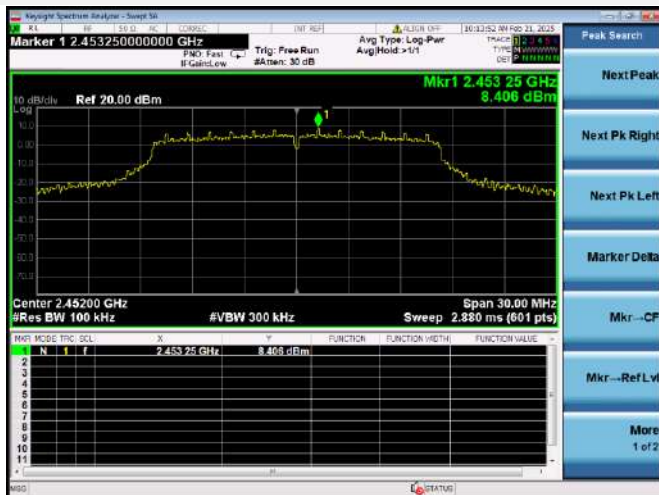


802.11g CH6, SPURIOUS

2 GHz ~ 25 GHz

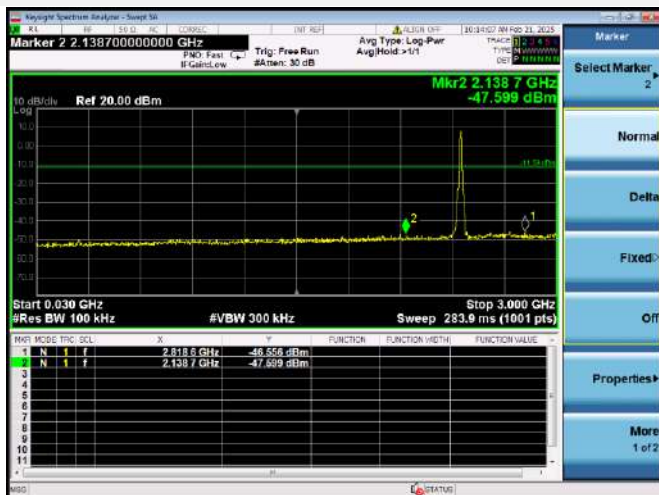


802.11g CH9 CARRIER LEVEL



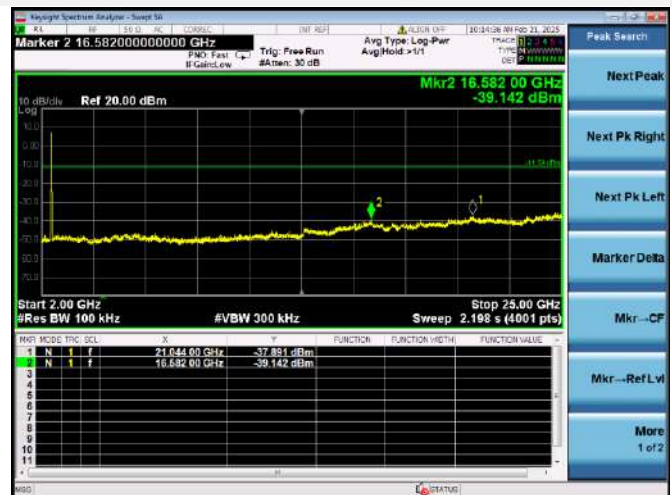
802.11g CH9, SPURIOUS

30 MHz ~ 3 GHz

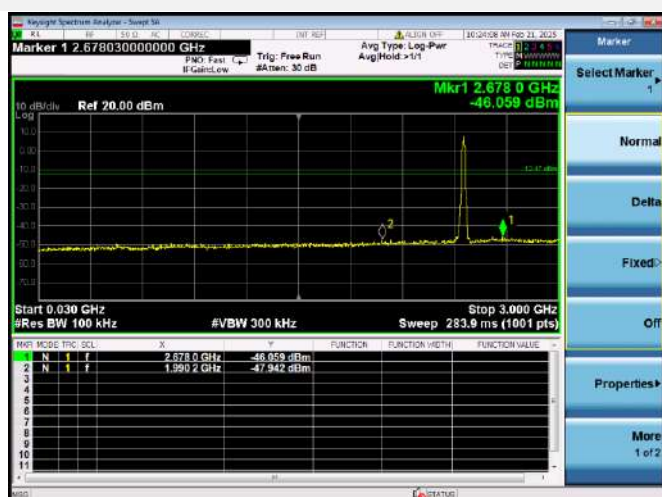
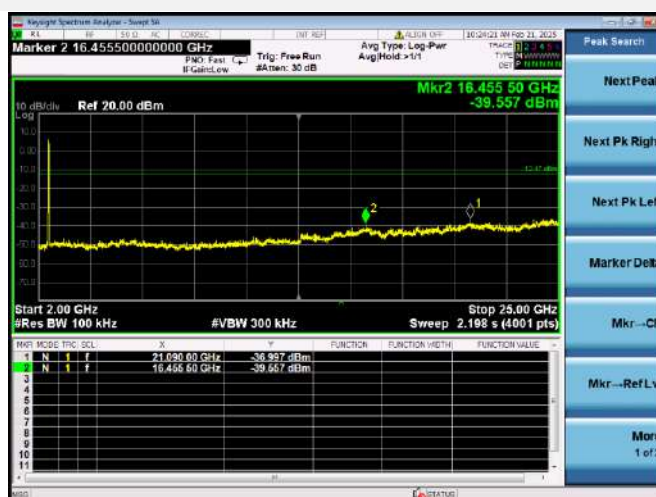


802.11g CH9, SPURIOUS

2 GHz ~ 25 GHz



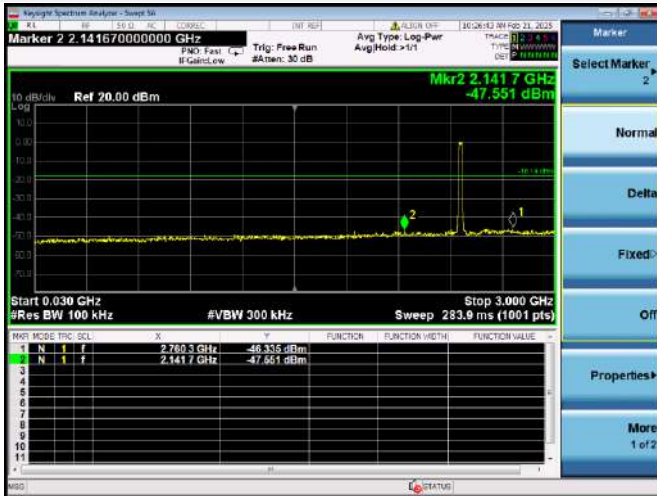
802.11g CH10 CARRIER LEVEL

802.11g CH10, SPURIOUS
30 MHz ~ 3 GHz802.11g CH10, SPURIOUS
2 GHz ~ 25 GHz

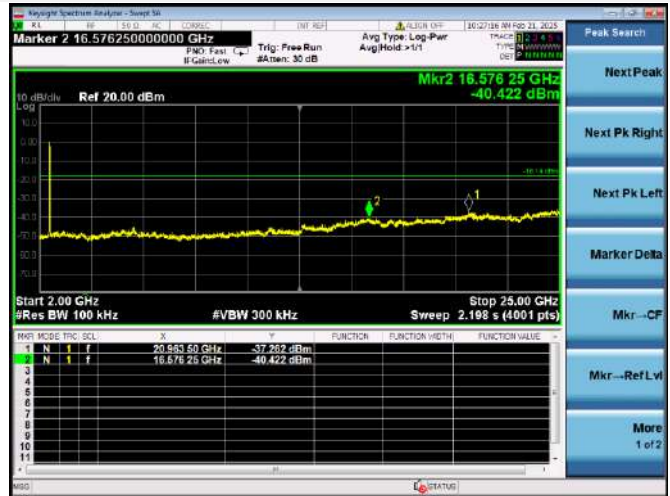
802.11g CH11 CARRIER LEVEL



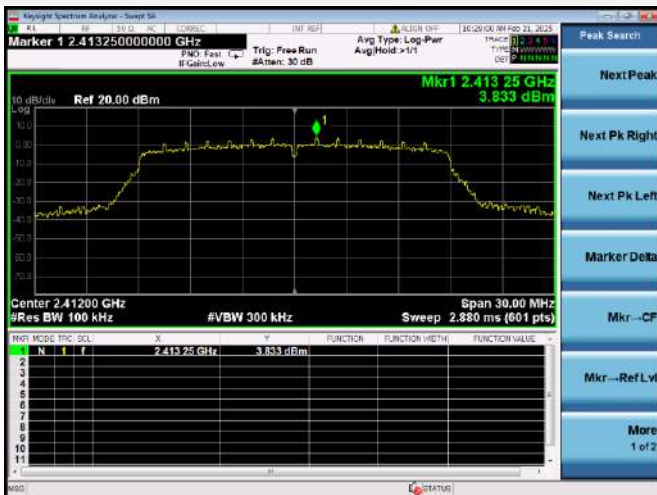
802.11g CH11, SPURIOUS 30 MHz ~ 3 GHz



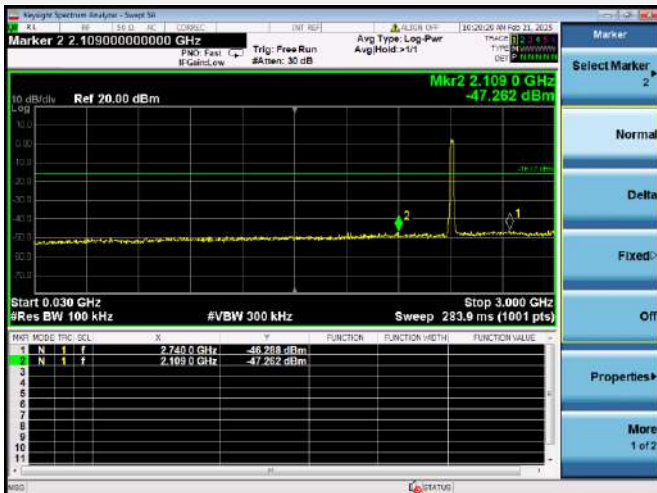
802.11g CH11, SPURIOUS 2 GHz ~ 25 GHz



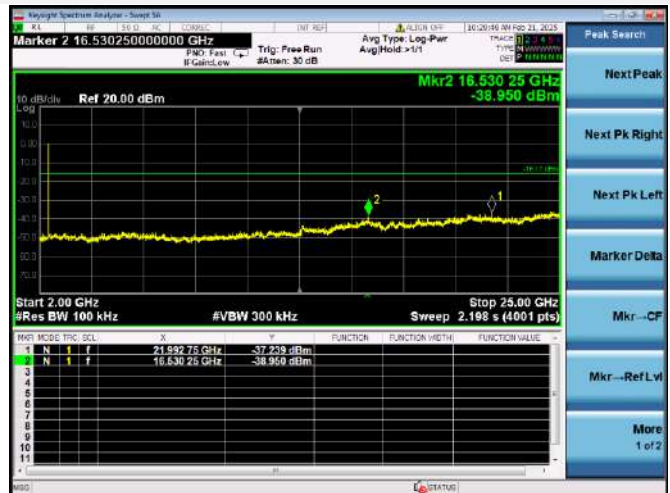
802.11n-20 MHz CH1 CARRIER LEVEL



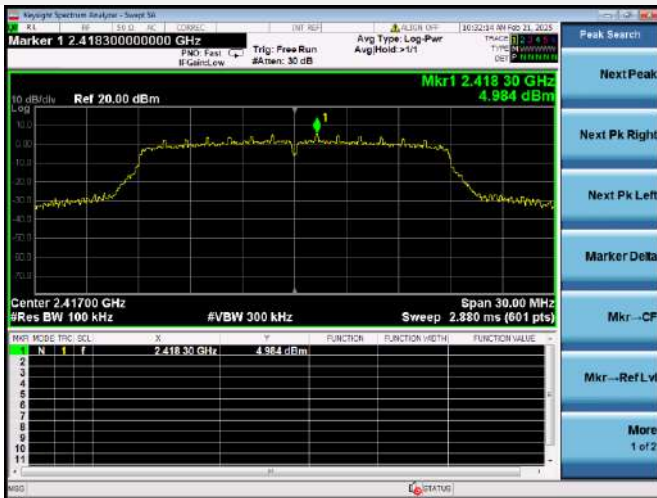
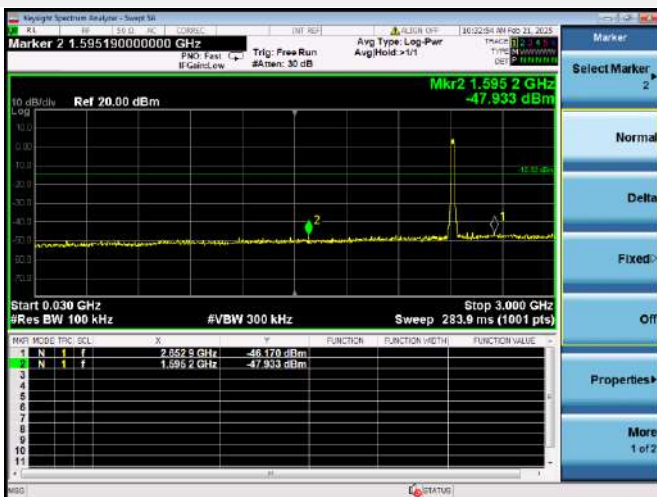
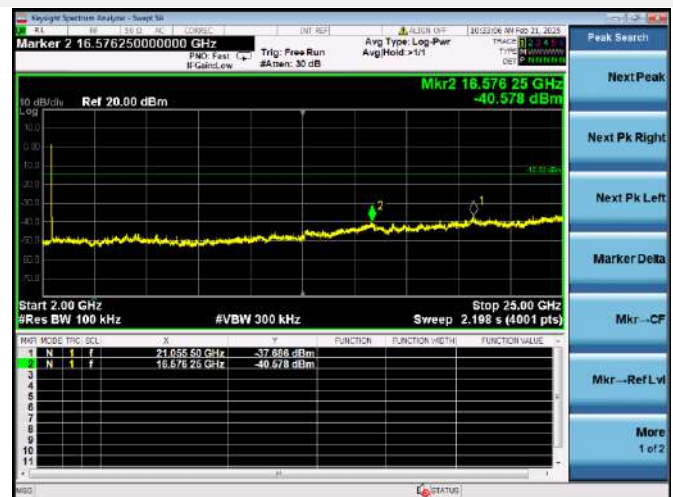
802.11n-20 MHz CH1, SPURIOUS 30 MHz ~ 3 GHz



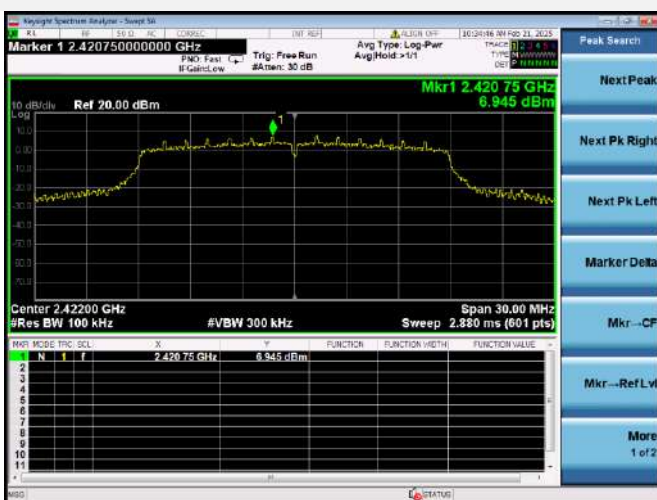
802.11n-20 MHz CH1, SPURIOUS 2 GHz ~ 25 GHz



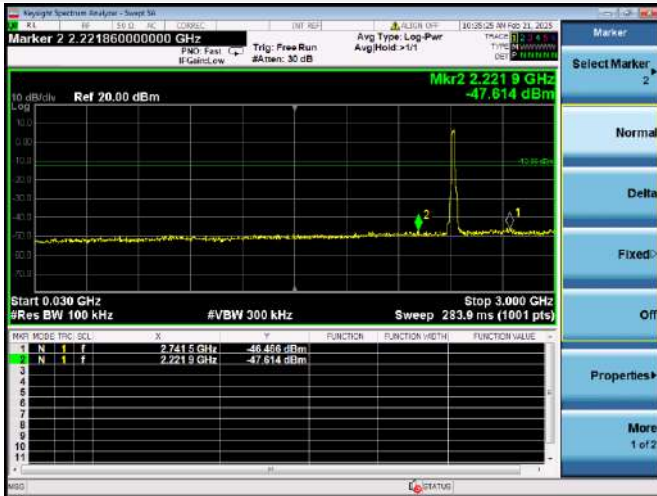
802.11n-20 MHz CH2 CARRIER LEVEL

802.11n-20 MHz CH2, SPURIOUS
30 MHz ~ 3 GHz802.11n-20 MHz CH2, SPURIOUS
2 GHz ~ 25 GHz

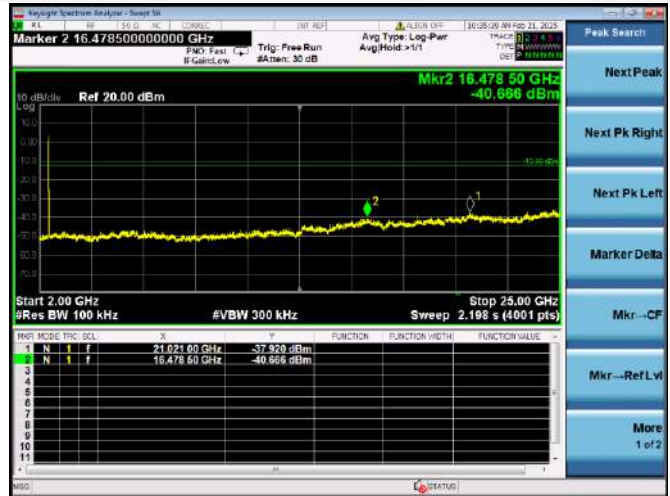
802.11n-20 MHz CH3 CARRIER LEVEL



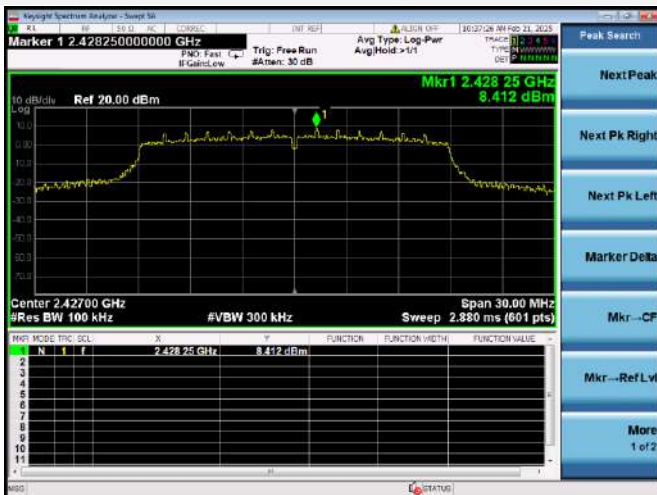
802.11n-20 MHz CH3, SPURIOUS 30 MHz ~ 3 GHz



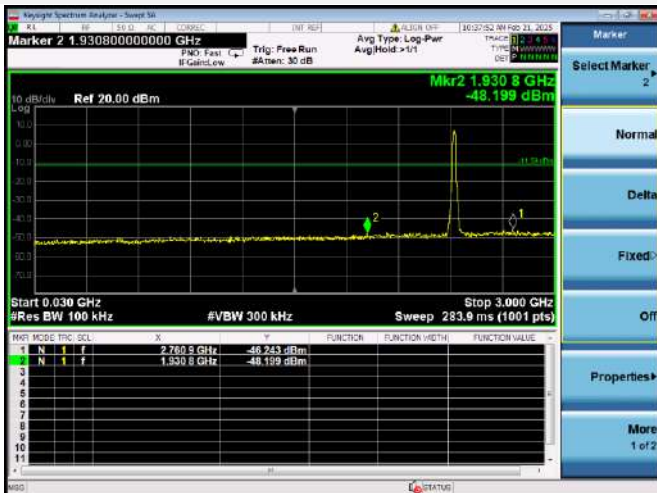
802.11n-20 MHz CH3, SPURIOUS 2 GHz ~ 25 GHz



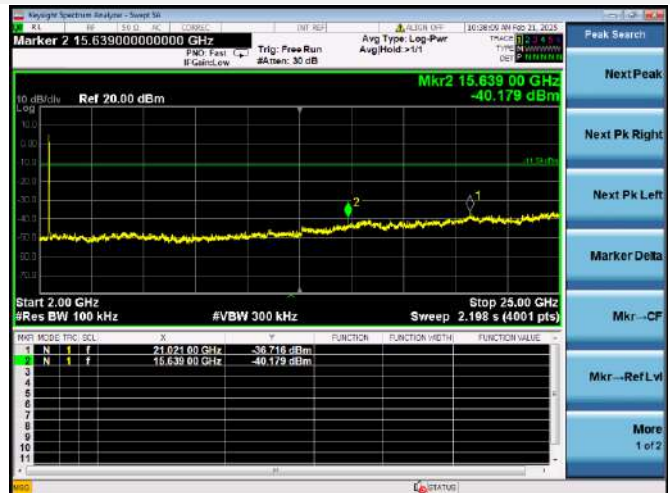
802.11n-20 MHz CH4 CARRIER LEVEL



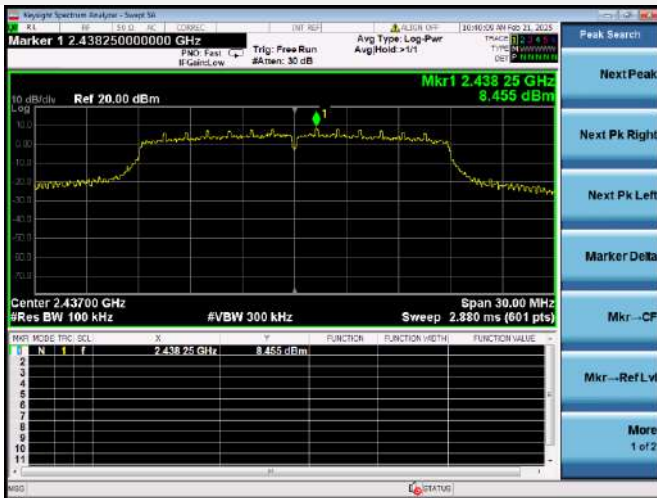
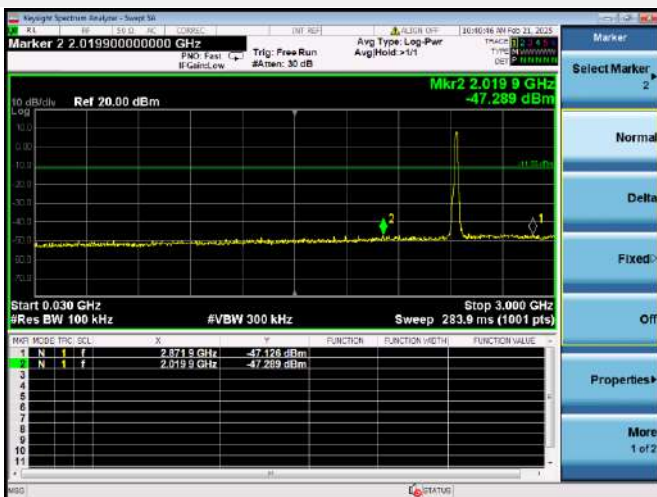
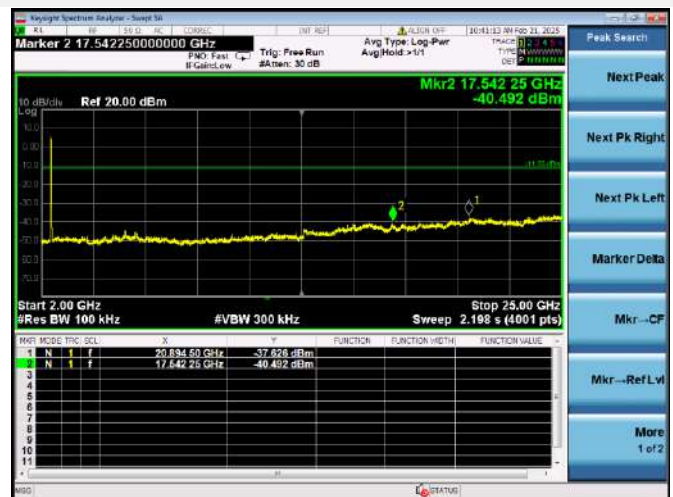
802.11n-20 MHz CH4, SPURIOUS 30 MHz ~ 3 GHz



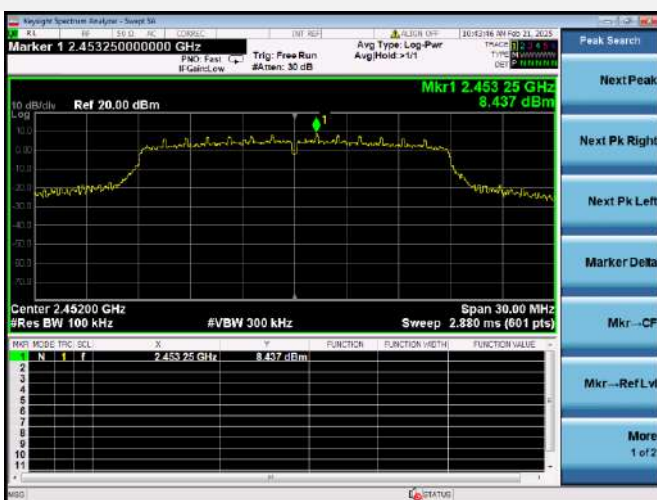
802.11n-20 MHz CH4, SPURIOUS 2 GHz ~ 25 GHz



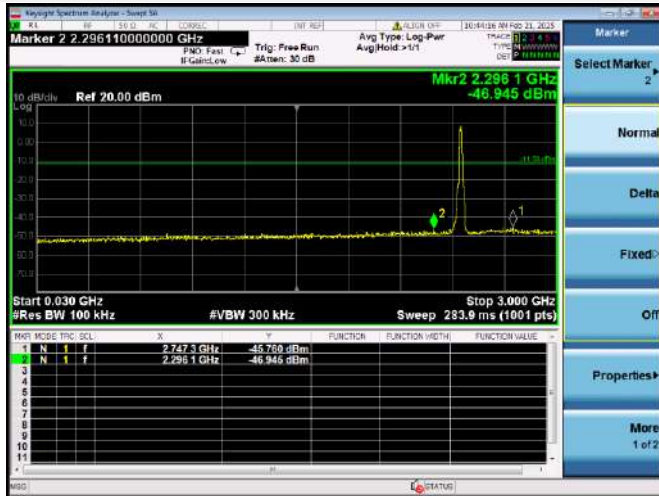
802.11n-20 MHz CH6 CARRIER LEVEL

802.11n-20 MHz CH6, SPURIOUS
30 MHz ~ 3 GHz802.11n-20 MHz CH6, SPURIOUS
2 GHz ~ 25 GHz

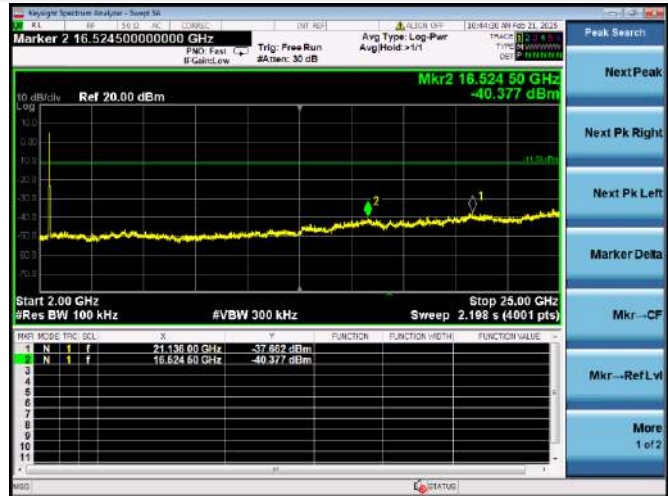
802.11n-20 MHz CH9 CARRIER LEVEL



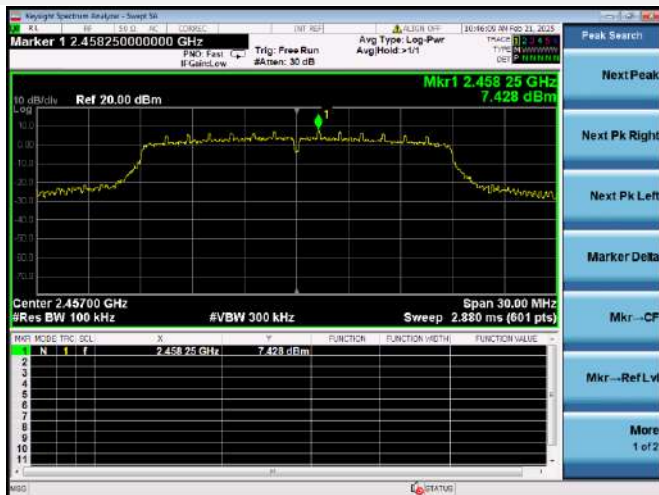
802.11n-20 MHz CH9, SPURIOUS 30 MHz ~ 3 GHz



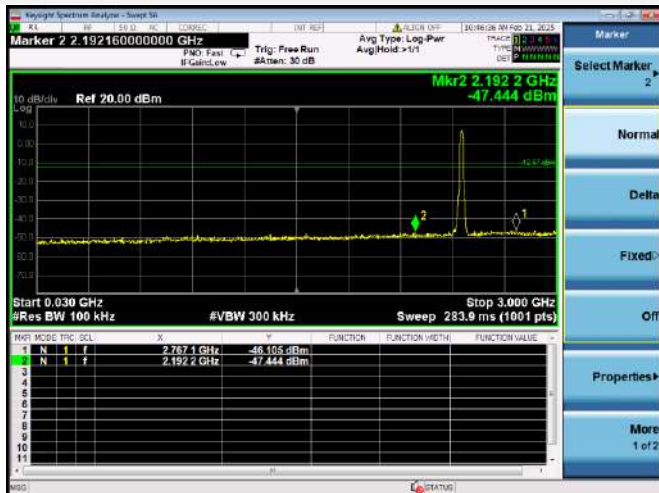
802.11n-20 MHz CH9, SPURIOUS 2 GHz ~ 25 GHz



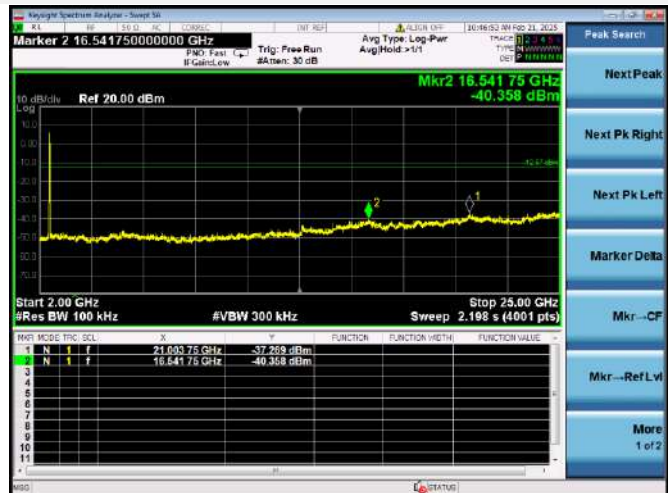
802.11n-20 MHz CH10 CARRIER LEVEL



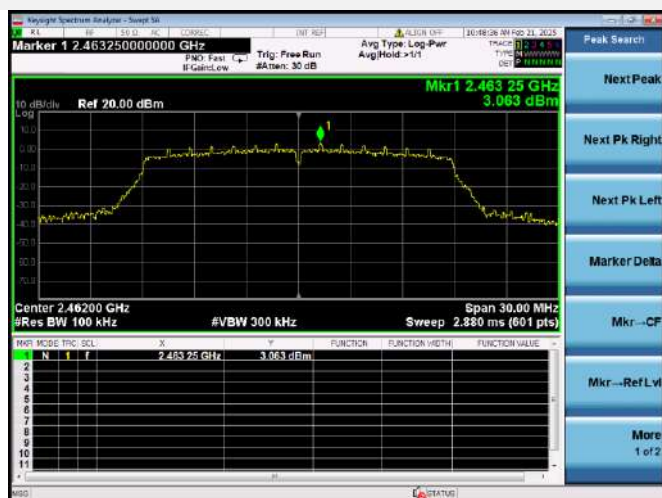
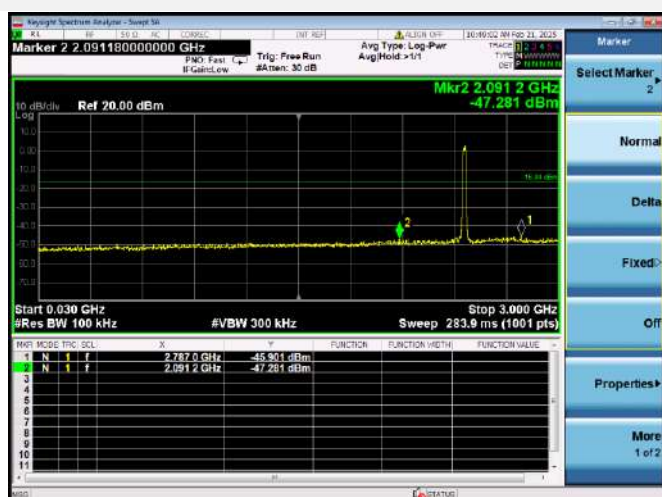
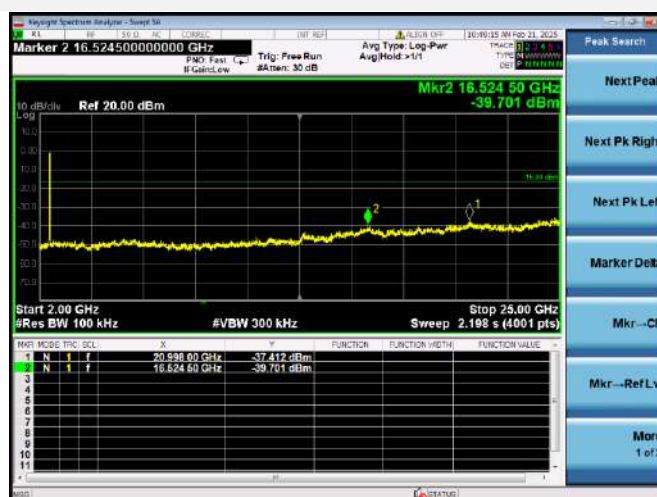
802.11n-20 MHz CH10, SPURIOUS 30 MHz ~ 3 GHz



802.11n-20 MHz CH10, SPURIOUS 2 GHz ~ 25 GHz



802.11n-20 MHz CH11 CARRIER LEVEL

802.11n-20 MHz CH11, SPURIOUS
30 MHz ~ 3 GHz802.11n-20 MHz CH11, 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	
CH 1	-39.05	9.33	-10.67	Pass
CH 11	-47.26	9.66	-10.34	Pass

802.11g Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
CH 1	-30.95	4.81	-15.19	Pass
CH 2	-33.91	5.43	-14.57	Pass
CH 3	-36.45	7.40	-12.60	Pass
CH 4	-36.75	8.35	-11.65	Pass
CH 9	-45.90	8.41	-11.59	Pass
CH 10	-45.92	7.53	-12.47	Pass
CH 11	-47.91	1.86	-18.14	Pass

802.11n-20 MHz Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
CH 1	-33.33	3.83	-16.17	Pass
CH 2	-34.62	4.98	-15.02	Pass
CH 3	-33.72	6.95	-13.05	Pass
CH 4	-37.52	8.41	-11.59	Pass
CH 9	-45.82	8.44	-11.56	Pass
CH 10	-45.69	7.43	-12.57	Pass
CH 11	-46.22	3.06	-16.94	Pass

Test Plots

802.11b CH1, CARRIER LEVEL



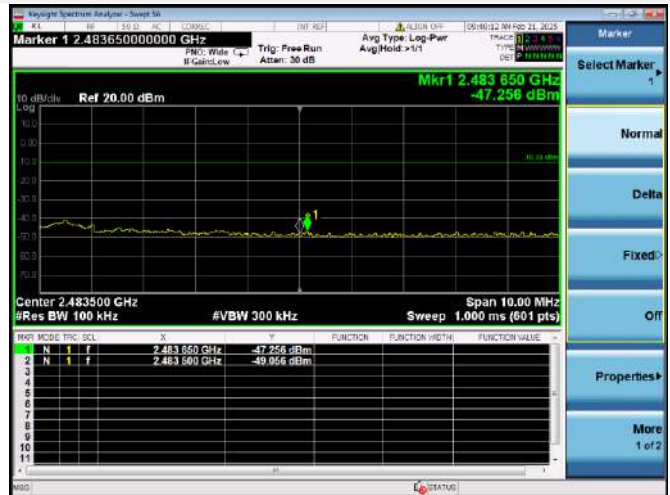
802.11b CH1, BAND EDGE



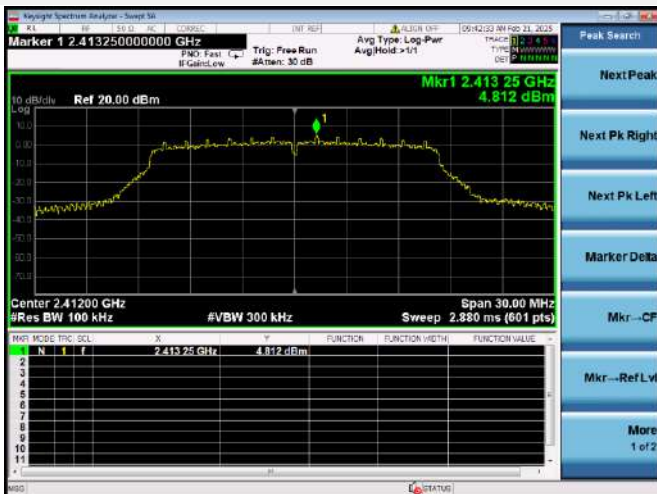
802.11b CH11, CARRIER LEVEL



802.11b CH11, BAND EDGE



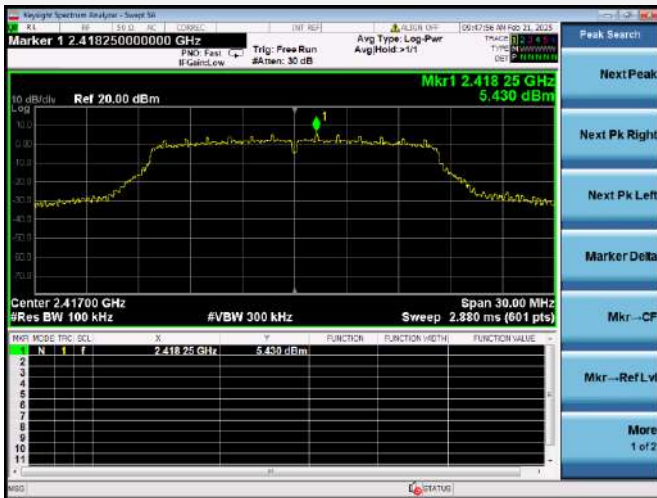
802.11g CH1, CARRIER LEVEL



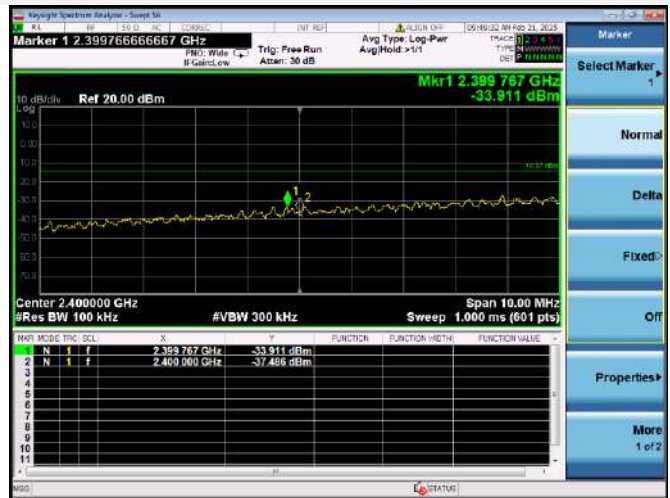
802.11g CH1, BAND EDGE



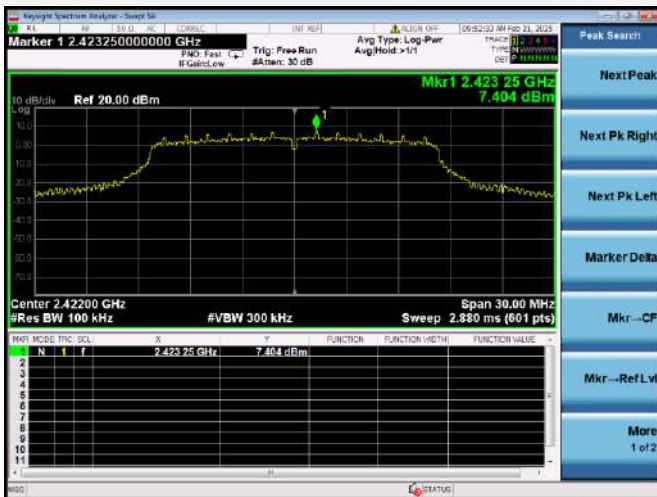
802.11g CH2, CARRIER LEVEL



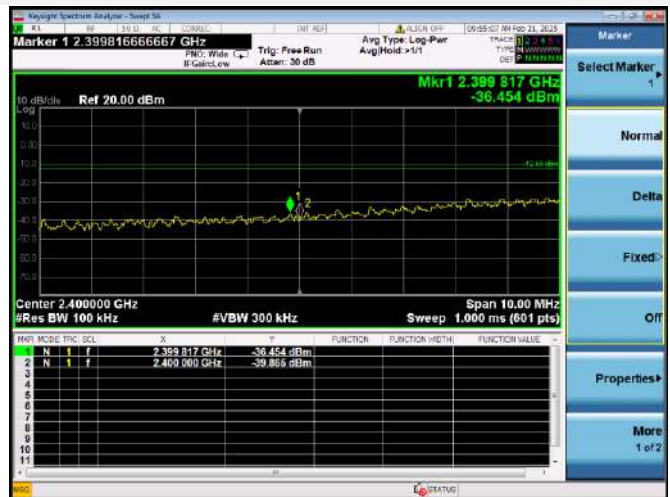
802.11g CH2, BAND EDGE



802.11g CH3, CARRIER LEVEL



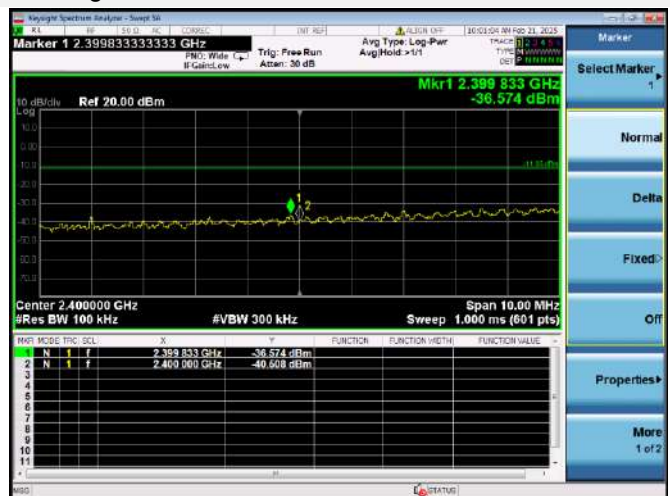
802.11g CH3, BAND EDGE



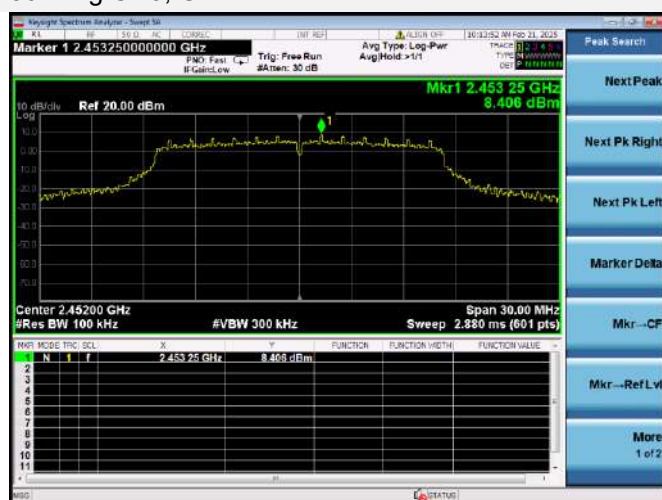
802.11g CH4, CARRIER LEVEL



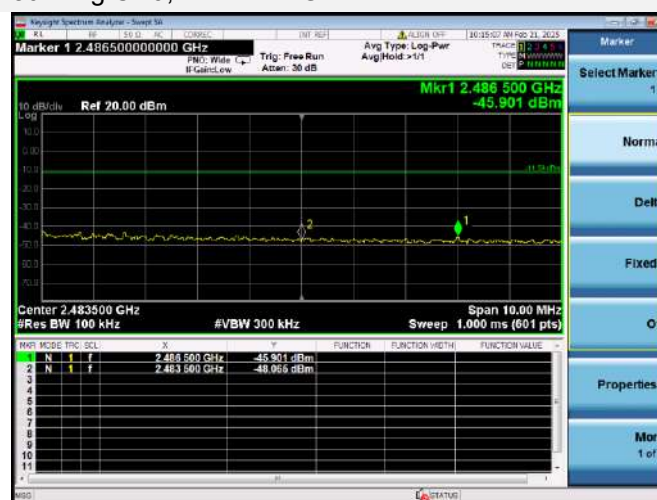
802.11g CH4, BAND EDGE



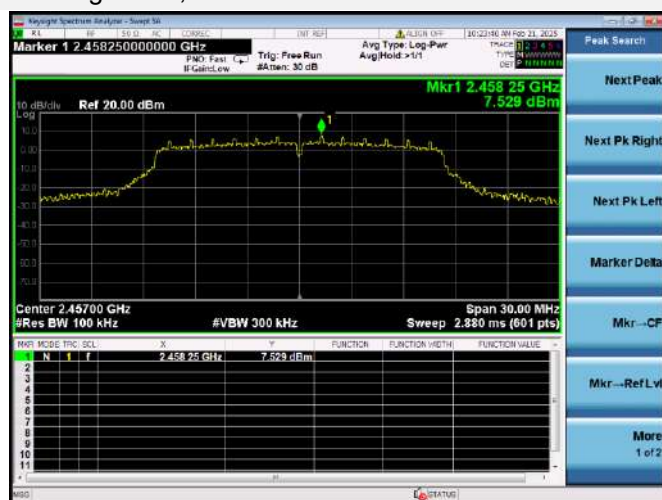
802.11g CH9, CARRIER LEVEL



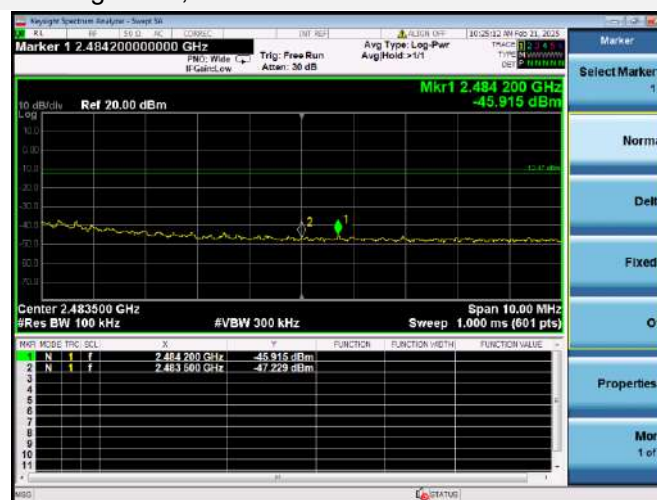
802.11g CH9, BAND EDGE



802.11g CH10, CARRIER LEVEL



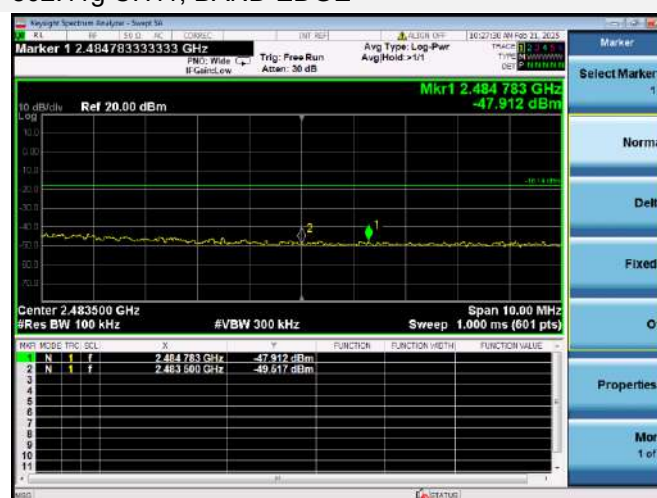
802.11g CH10, BAND EDGE



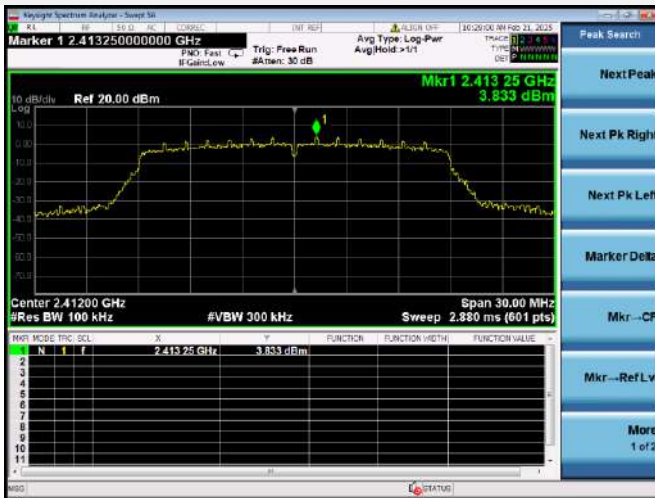
802.11g CH11, CARRIER LEVEL



802.11g CH11, BAND EDGE



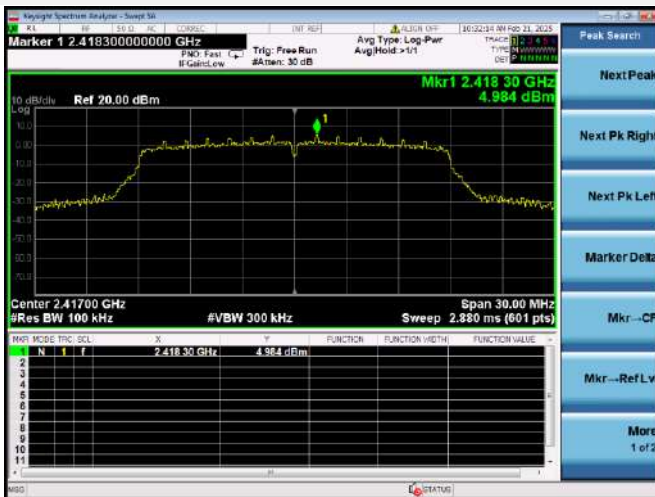
802.11n-20 MHz CH1, CARRIER LEVEL



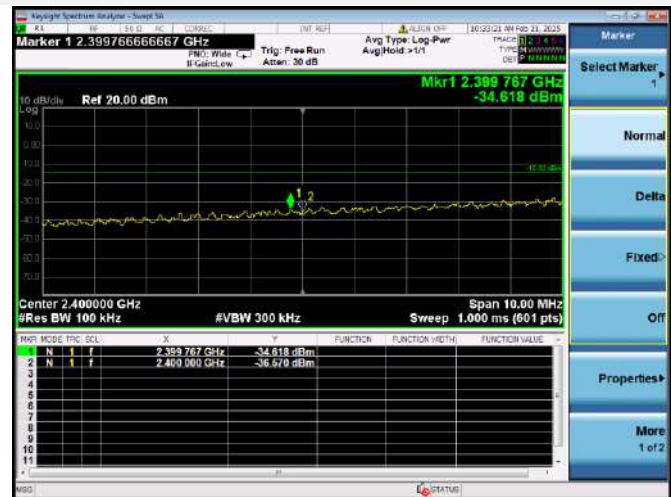
802.11n-20 MHz CH1, BAND EDGE



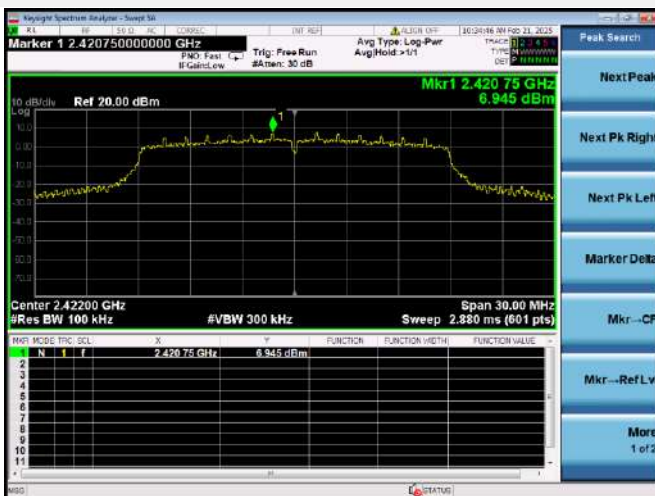
802.11n-20 MHz CH2, CARRIER LEVEL



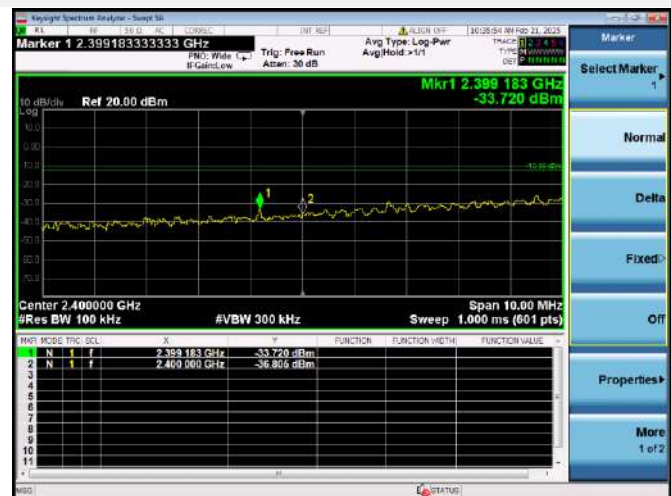
802.11n-20 MHz CH2, BAND EDGE



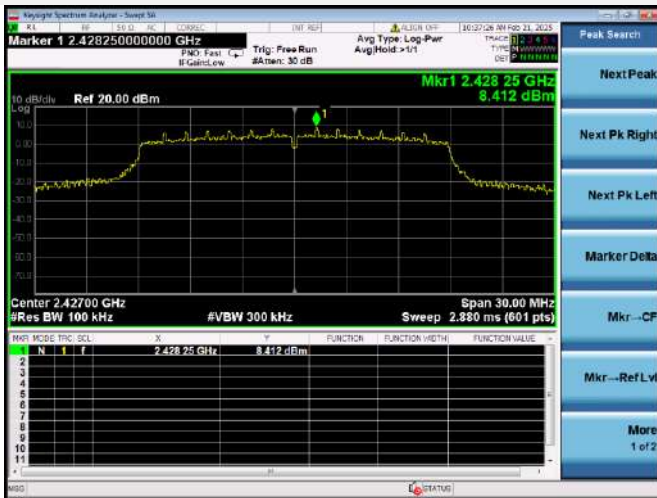
802.11n-20 MHz CH3, CARRIER LEVEL



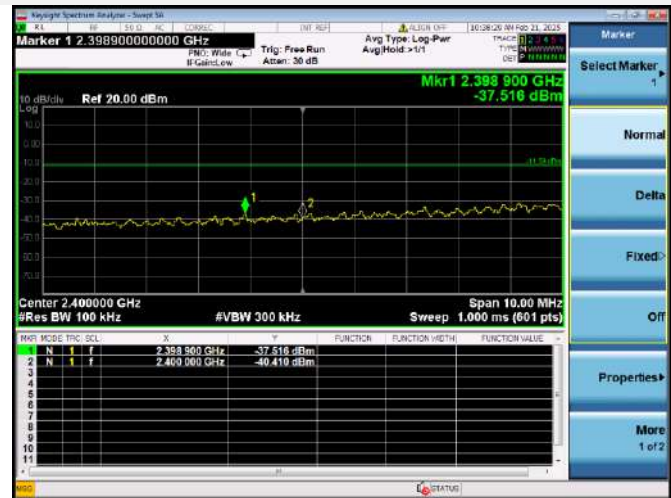
802.11n-20 MHz CH3, BAND EDGE



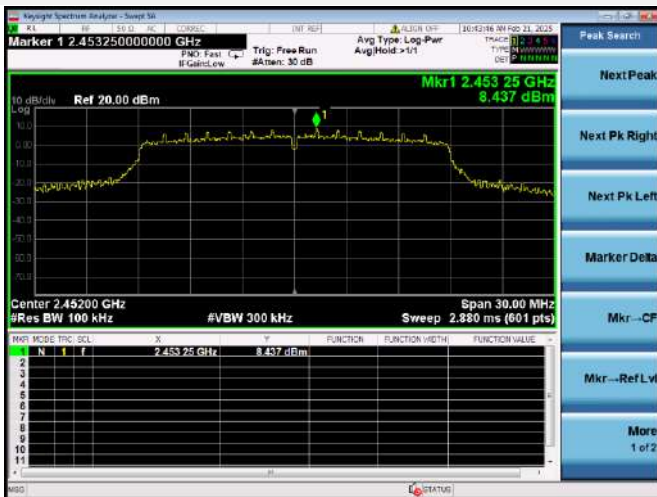
802.11n-20 MHz CH4, CARRIER LEVEL



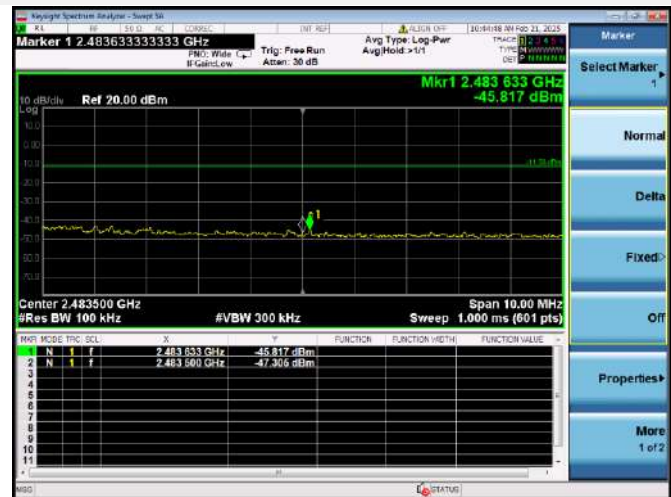
802.11n-20 MHz CH4, BAND EDGE



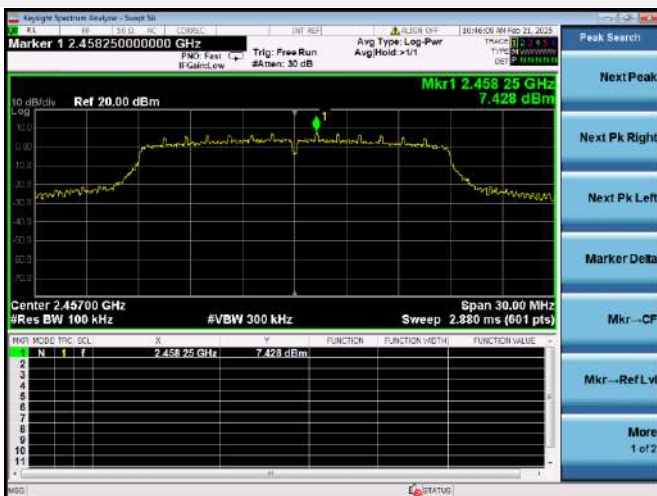
802.11n-20 MHz CH9, CARRIER LEVEL



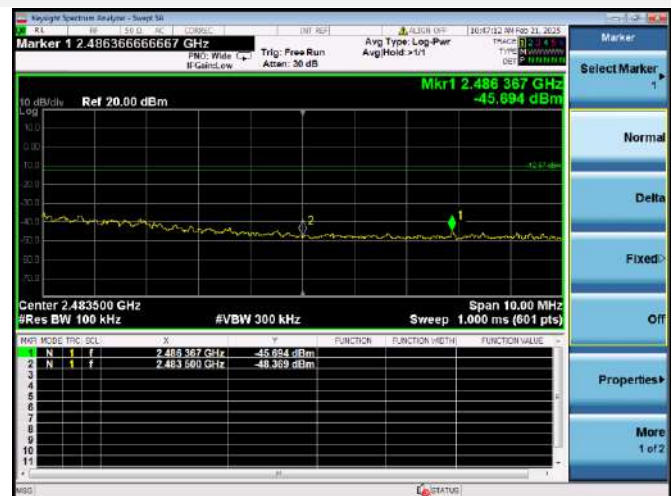
802.11n-20 MHz CH9, BAND EDGE



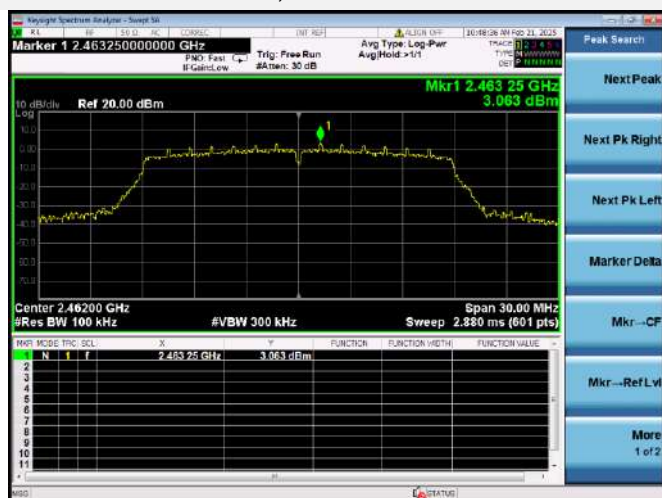
802.11n-20 MHz CH10, CARRIER LEVEL



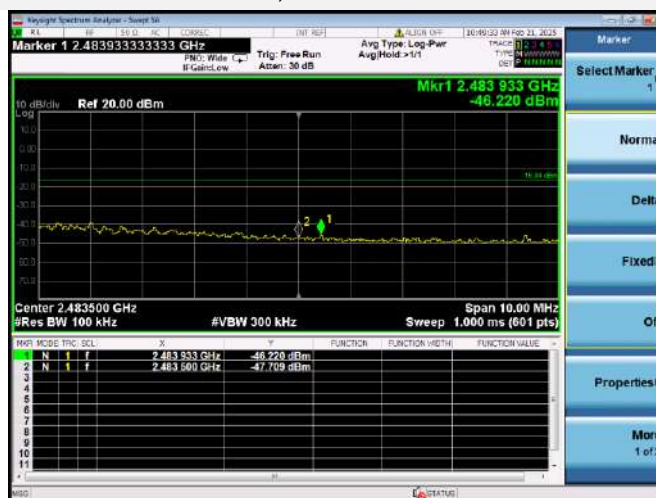
802.11n-20 MHz CH10, BAND EDGE



802.11n-20 MHz CH11, CARRIER LEVEL



802.11n-20 MHz CH11, BAND EDGE



A.5 Conducted Emissions

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

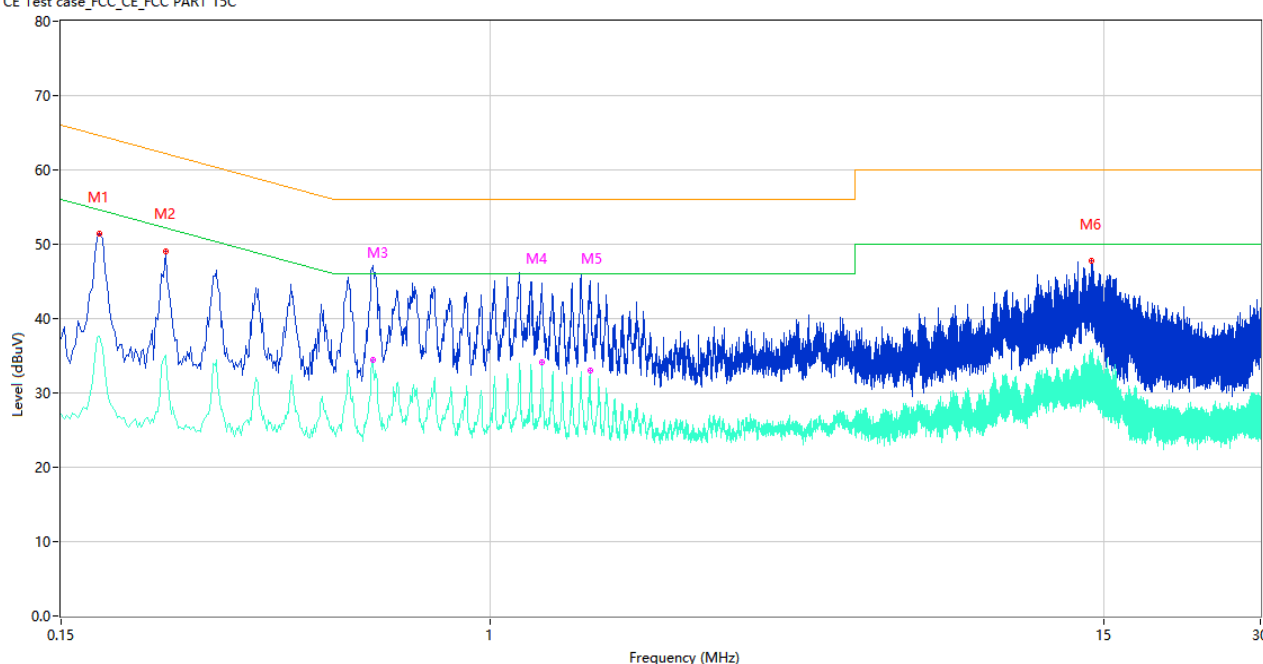
Note²: Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 60 Hz and 240 VAC, 50 Hz) for which the device is capable of operation. So, The configuration 120 VAC, 60 Hz and 240 VAC, 50 Hz were tested respectively, but only the worst configuration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

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

Test Data and Plots

PHASE L

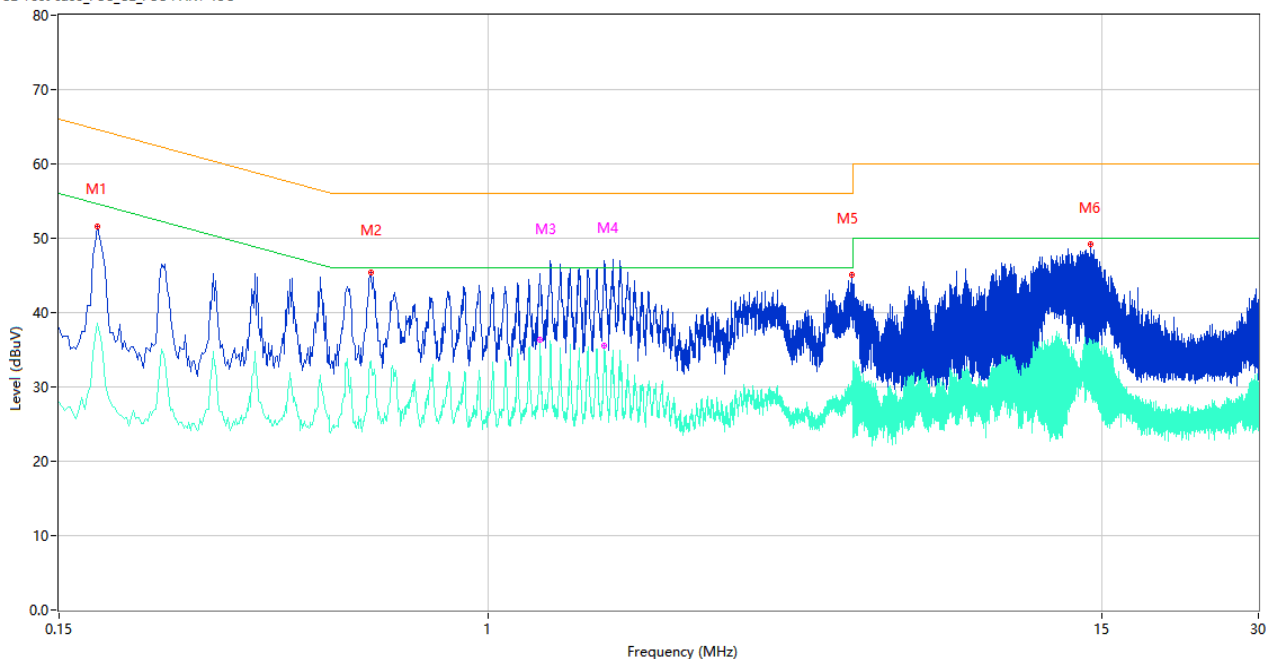
CE Test case_FCC_CE_FCC PART 15C



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.178	51.40	9.78	64.58	13.18	Peak	L	Pass
1**	0.178	37.64	9.78	54.58	16.94	AV	L	Pass
2	0.238	49.12	9.77	62.17	13.05	Peak	L	Pass
2**	0.238	35.04	9.77	52.17	17.13	AV	L	Pass
3	0.594	46.45	10.15	56.00	9.55	Peak	L	Pass
3**	0.594	34.52	10.15	46.00	11.48	AV	L	Pass
4	1.256	44.83	10.45	56.00	11.17	Peak	L	Pass
4**	1.256	34.07	10.45	46.00	11.93	AV	L	Pass
5	1.552	45.07	10.13	56.00	10.93	Peak	L	Pass
5**	1.552	33.08	10.13	46.00	12.92	AV	L	Pass
6	14.252	47.75	10.55	60.00	12.25	Peak	L	Pass
6**	14.252	34.46	10.55	50.00	15.54	AV	L	Pass

PHASE N

CE Test case_FCC_CE_FCC PART 15C



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.178	51.67	9.78	64.58	12.91	Peak	N	Pass
1**	0.178	38.53	9.78	54.58	16.05	AV	N	Pass
2	0.594	45.33	10.15	56.00	10.67	Peak	N	Pass
2**	0.594	33.55	10.15	46.00	12.45	AV	N	Pass
3	1.258	45.16	10.46	56.00	10.84	Peak	N	Pass
3**	1.258	36.36	10.46	46.00	9.64	AV	N	Pass
4	1.670	46.94	10.04	56.00	9.06	Peak	N	Pass
4**	1.670	35.48	10.04	46.00	10.52	AV	N	Pass
5	4.984	45.01	10.38	56.00	10.99	Peak	N	Pass
5**	4.984	30.77	10.38	46.00	15.23	AV	N	Pass
6	14.260	49.14	10.53	60.00	10.86	Peak	N	Pass
6**	14.260	35.96	10.53	50.00	14.04	AV	N	Pass

A.6 Radiated Emission

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

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

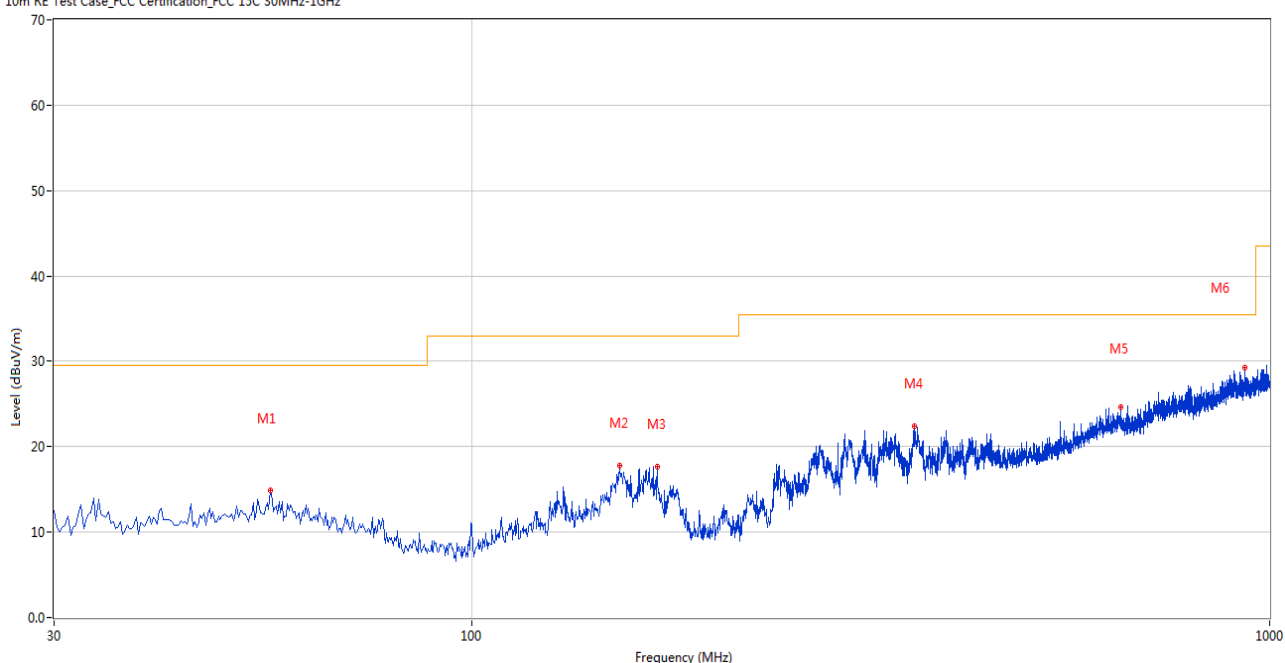
Note³: The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.

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

Test Data and Plots

30 MHz to 1 GHz, ANT H

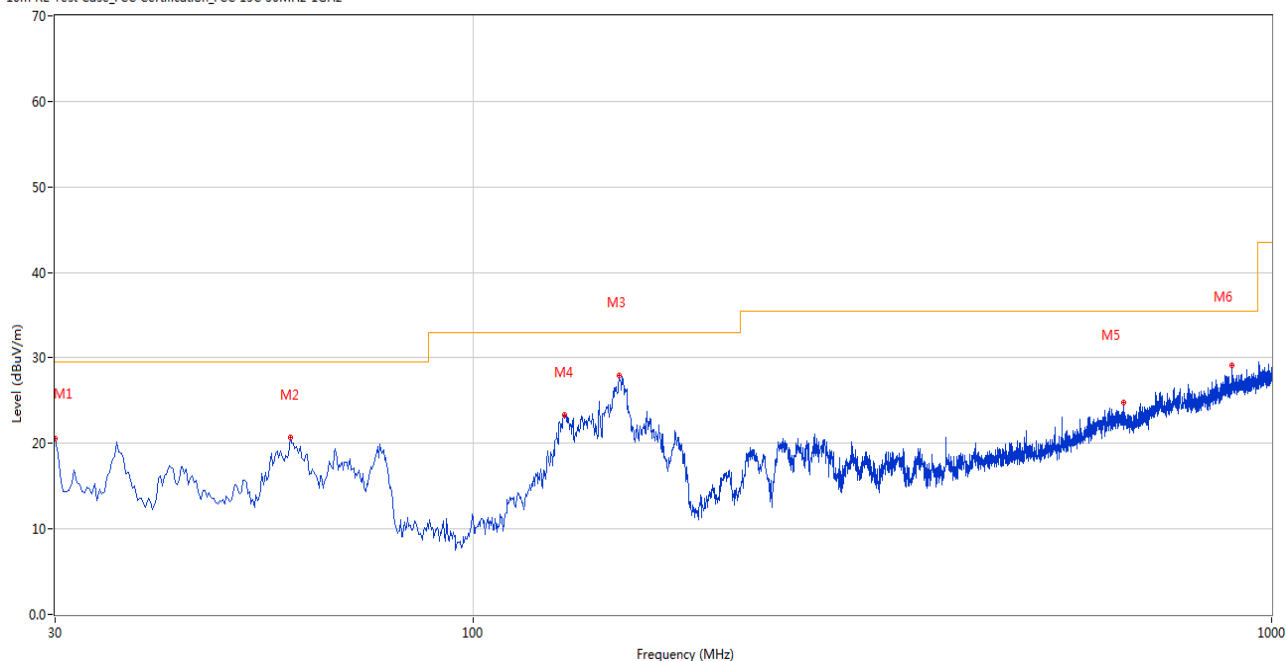
10m RE Test Case_FCC Certification_FCC 15C 30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	55.941	14.87	-26.20	29.5	14.63	Peak	74.00	200	Horizontal	Pass
2	153.159	17.86	-25.56	33.0	15.14	Peak	263.00	200	Horizontal	Pass
3	170.857	17.69	-26.27	33.0	15.31	Peak	282.00	200	Horizontal	Pass
4	358.505	22.41	-23.40	35.5	13.09	Peak	263.00	200	Horizontal	Pass
5	651.130	24.59	-15.70	35.5	10.91	Peak	117.00	200	Horizontal	Pass
6	930.420	29.25	-10.61	35.5	6.25	Peak	358.00	200	Horizontal	Pass

30 MHz to 1 GHz, ANT V

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



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	30.000	20.60	-27.82	29.5	8.90	Peak	360.00	200	Vertical	Pass
2	59.093	20.72	-26.43	29.5	8.78	Peak	168.00	100	Vertical	Pass
3	152.432	27.97	-25.56	33.0	5.03	Peak	245.00	100	Vertical	Pass
4	130.370	23.35	-27.23	33.0	9.65	Peak	301.00	100	Vertical	Pass
5	652.827	24.73	-15.66	35.5	10.77	Peak	4.00	200	Vertical	Pass
6	892.599	29.11	-10.58	35.5	6.39	Peak	276.00	200	Vertical	Pass

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

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

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1504.100	42.08	74.0	31.92	Peak	354.00	200	Horizontal	Pass
1**	1504.100	32.57	54.0	21.43	AV	354.00	200	Horizontal	Pass
2	2410.800	106.63	74.0	-32.63	Peak	102.00	150	Horizontal	N/A
2**	2410.800	103.83	54.0	-49.83	AV	102.00	150	Horizontal	N/A
3	4809.000	51.05	74.0	22.95	Peak	21.00	200	Horizontal	Pass
3**	4809.000	42.35	54.0	11.65	AV	21.00	200	Horizontal	Pass
4	4824.200	50.17	74.0	23.83	Peak	166.00	150	Horizontal	Pass
4**	4824.200	44.95	54.0	9.05	AV	166.00	150	Horizontal	Pass
5	10916.325	51.93	74.0	22.07	Peak	121.00	400	Horizontal	Pass
5**	10916.325	42.90	54.0	11.10	AV	121.00	400	Horizontal	Pass
6	17433.000	54.89	74.0	19.11	Peak	77.00	300	Horizontal	Pass
6**	17433.000	45.58	54.0	8.42	AV	77.00	300	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1574.200	42.59	74.0	31.41	Peak	203.00	100	Vertical	Pass
1**	1574.200	32.31	54.0	21.69	AV	203.00	100	Vertical	Pass
2	2412.000	94.61	74.0	-20.61	Peak	96.00	200	Vertical	N/A
2**	2412.000	90.53	54.0	-36.53	AV	96.00	200	Vertical	N/A
3	4812.000	51.29	74.0	22.71	Peak	336.00	100	Vertical	Pass
3**	4812.000	42.01	54.0	11.99	AV	336.00	100	Vertical	Pass
4	6610.400	54.88	74.0	19.12	Peak	336.00	400	Vertical	Pass
4**	6610.400	46.00	54.0	8.00	AV	336.00	400	Vertical	Pass
5	11774.224	51.52	74.0	22.48	Peak	295.00	400	Vertical	Pass
5**	11774.224	43.09	54.0	10.91	AV	295.00	400	Vertical	Pass
6	17429.850	54.75	74.0	19.25	Peak	57.00	100	Vertical	Pass
6**	17429.850	45.52	54.0	8.48	AV	57.00	100	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1599.400	42.03	74.0	31.97	Peak	250.00	400	Horizontal	Pass
1**	1599.400	31.94	54.0	22.06	AV	250.00	400	Horizontal	Pass
2	2435.800	105.26	74.0	-31.26	Peak	104.00	150	Horizontal	N/A
2**	2435.800	102.36	54.0	-48.36	AV	104.00	150	Horizontal	N/A
3	4874.000	54.26	74.0	19.74	Peak	89.00	150	Horizontal	Pass
3**	4874.000	50.94	54.0	3.06	AV	89.00	150	Horizontal	Pass
4	4874.400	53.76	74.0	20.24	Peak	112.00	150	Horizontal	Pass
4**	4874.400	50.97	54.0	3.03	AV	112.00	150	Horizontal	Pass
5	11939.250	51.99	74.0	22.01	Peak	251.00	300	Horizontal	Pass
5**	11939.250	42.21	54.0	11.79	AV	251.00	300	Horizontal	Pass
6	17425.125	56.03	74.0	17.97	Peak	32.00	100	Horizontal	Pass
6**	17425.125	46.89	54.0	7.11	AV	32.00	100	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1308.100	42.46	74.0	31.54	Peak	286.00	200	Vertical	Pass
1**	1308.100	32.94	54.0	21.06	AV	286.00	200	Vertical	Pass
2	2435.800	94.25	74.0	-20.25	Peak	9.00	150	Vertical	N/A
2**	2435.800	91.33	54.0	-37.33	AV	9.00	150	Vertical	N/A
3	4874.200	53.32	74.0	20.68	Peak	138.00	150	Vertical	Pass
3**	4874.200	48.84	54.0	5.16	AV	138.00	150	Vertical	Pass
4	6980.400	55.38	74.0	18.62	Peak	307.00	200	Vertical	Pass
4**	6980.400	48.03	54.0	5.97	AV	307.00	200	Vertical	Pass
5	10923.225	52.02	74.0	21.98	Peak	167.00	100	Vertical	Pass
5**	10923.225	42.89	54.0	11.11	AV	167.00	100	Vertical	Pass
6	17429.062	55.68	74.0	18.32	Peak	51.00	100	Vertical	Pass
6**	17429.062	46.84	54.0	7.16	AV	51.00	100	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1499.400	41.93	74.0	32.07	Peak	51.00	400	Horizontal	Pass
1**	1499.400	32.42	54.0	21.58	AV	51.00	400	Horizontal	Pass
2	2460.500	105.64	74.0	-31.64	Peak	96.00	100	Horizontal	N/A
2**	2460.500	102.82	54.0	-48.82	AV	96.00	100	Horizontal	N/A
3	4924.000	54.92	74.0	19.08	Peak	123.00	100	Horizontal	Pass
3**	4924.000	50.27	54.0	3.73	AV	123.00	100	Horizontal	Pass
4	4924.200	53.54	74.0	20.46	Peak	202.00	150	Horizontal	Pass
4**	4924.200	50.99	54.0	3.01	AV	202.00	150	Horizontal	Pass
5	12899.888	51.85	74.0	22.15	Peak	57.00	300	Horizontal	Pass
5**	12899.888	41.24	54.0	12.76	AV	57.00	300	Horizontal	Pass
6	17456.886	54.55	74.0	19.45	Peak	134.00	300	Horizontal	Pass
6**	17456.886	44.65	54.0	9.35	AV	134.00	300	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1346.000	42.33	74.0	31.67	Peak	360.00	300	Vertical	Pass
1**	1346.000	32.35	54.0	21.65	AV	360.00	300	Vertical	Pass
2	2460.700	94.59	74.0	-20.59	Peak	133.00	200	Vertical	N/A
2**	2460.700	91.64	54.0	-37.64	AV	133.00	200	Vertical	N/A
3	4924.200	53.45	74.0	20.55	Peak	56.00	150	Vertical	Pass
3**	4924.200	48.36	54.0	5.64	AV	56.00	150	Vertical	Pass
4	6976.200	54.71	74.0	19.29	Peak	360.00	400	Vertical	Pass
4**	6976.200	45.70	54.0	8.30	AV	360.00	400	Vertical	Pass
5	11785.725	51.56	74.0	22.44	Peak	261.00	300	Vertical	Pass
5**	11785.725	42.43	54.0	11.57	AV	261.00	300	Vertical	Pass
6	17421.449	55.21	74.0	18.79	Peak	96.00	300	Vertical	Pass
6**	17421.449	46.00	54.0	8.00	AV	96.00	300	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1367.400	41.82	74.0	32.18	Peak	232.00	100	Horizontal	Pass
1**	1367.400	31.51	54.0	22.49	AV	232.00	100	Horizontal	Pass
2	2413.200	108.62	74.0	-34.62	Peak	0.00	200	Horizontal	N/A
2**	2413.200	102.19	54.0	-48.19	AV	0.00	200	Horizontal	N/A
3	4775.000	51.42	74.0	22.58	Peak	23.00	150	Horizontal	Pass
3**	4775.000	41.29	54.0	12.71	AV	23.00	150	Horizontal	Pass
4	6979.200	54.81	74.0	19.19	Peak	114.00	400	Horizontal	Pass
4**	6979.200	45.47	54.0	8.53	AV	114.00	400	Horizontal	Pass
5	10922.075	52.14	74.0	21.86	Peak	312.00	300	Horizontal	Pass
5**	10922.075	42.82	54.0	11.18	AV	312.00	300	Horizontal	Pass
6	17421.449	55.54	74.0	18.46	Peak	360.00	200	Horizontal	Pass
6**	17421.449	46.12	54.0	7.88	AV	360.00	200	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1572.900	41.91	74.0	32.09	Peak	354.00	400	Vertical	Pass
1**	1572.900	32.97	54.0	21.03	AV	354.00	400	Vertical	Pass
2	2410.800	96.22	74.0	-22.22	Peak	11.00	100	Vertical	N/A
2**	2410.800	89.45	54.0	-35.45	AV	11.00	100	Vertical	N/A
3	4782.400	51.19	74.0	22.81	Peak	143.00	200	Vertical	Pass
3**	4782.400	41.85	54.0	12.15	AV	143.00	200	Vertical	Pass
4	6806.400	54.57	74.0	19.43	Peak	30.00	400	Vertical	Pass
4**	6806.400	46.23	54.0	7.77	AV	30.00	400	Vertical	Pass
5	11767.326	51.87	74.0	22.13	Peak	346.00	400	Vertical	Pass
5**	11767.326	42.94	54.0	11.06	AV	346.00	400	Vertical	Pass
6	17429.588	55.20	74.0	18.80	Peak	198.00	200	Vertical	Pass
6**	17429.588	46.54	54.0	7.46	AV	198.00	200	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1497.100	43.03	74.0	30.97	Peak	317.00	200	Horizontal	Pass
1**	1497.100	32.55	54.0	21.45	AV	317.00	200	Horizontal	Pass
2	2416.100	108.15	74.0	-34.15	Peak	102.00	100	Horizontal	N/A
2**	2416.100	100.12	54.0	-46.12	AV	102.00	100	Horizontal	N/A
3	4907.000	51.18	74.0	22.82	Peak	88.00	150	Horizontal	Pass
3**	4907.000	41.85	54.0	12.15	AV	88.00	150	Horizontal	Pass
4	6520.600	54.75	74.0	19.25	Peak	20.00	100	Horizontal	Pass
4**	6520.600	44.54	54.0	9.46	AV	20.00	100	Horizontal	Pass
5	11334.350	52.20	74.0	21.80	Peak	127.00	400	Horizontal	Pass
5**	11334.350	43.20	54.0	10.80	AV	127.00	400	Horizontal	Pass
6	16271.175	55.24	74.0	18.76	Peak	289.00	300	Horizontal	Pass
6**	16271.175	44.56	54.0	9.44	AV	289.00	300	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1410.000	42.06	74.0	31.94	Peak	48.00	300	Vertical	Pass
1**	1410.000	32.13	54.0	21.87	AV	48.00	300	Vertical	Pass
2	2415.500	95.15	74.0	-21.15	Peak	135.00	150	Vertical	N/A
2**	2415.500	88.62	54.0	-34.62	AV	135.00	150	Vertical	N/A
3	4905.200	51.76	74.0	22.24	Peak	157.00	200	Vertical	Pass
3**	4905.200	40.88	54.0	13.12	AV	157.00	200	Vertical	Pass
4	6997.600	55.13	74.0	18.87	Peak	293.00	400	Vertical	Pass
4**	6997.600	45.17	54.0	8.83	AV	293.00	400	Vertical	Pass
5	12796.200	51.84	74.0	22.16	Peak	270.00	100	Vertical	Pass
5**	12796.200	41.71	54.0	12.29	AV	270.00	100	Vertical	Pass
6	16347.300	54.88	74.0	19.12	Peak	230.00	400	Vertical	Pass
6**	16347.300	44.82	54.0	9.18	AV	230.00	400	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1531.300	41.98	74.0	32.02	Peak	232.00	400	Horizontal	Pass
1**	1531.300	32.49	54.0	21.51	AV	232.00	400	Horizontal	Pass
2	2423.500	107.90	74.0	-33.90	Peak	106.00	200	Horizontal	N/A
2**	2423.500	100.35	54.0	-46.35	AV	106.00	200	Horizontal	N/A
3	4809.400	51.78	74.0	22.22	Peak	1.00	100	Horizontal	Pass
3**	4809.400	42.43	54.0	11.57	AV	1.00	100	Horizontal	Pass
4	6977.000	55.69	74.0	18.31	Peak	64.00	200	Horizontal	Pass
4**	6977.000	45.98	54.0	8.02	AV	64.00	200	Horizontal	Pass
5	11330.326	51.89	74.0	22.11	Peak	8.00	100	Horizontal	Pass
5**	11330.326	42.40	54.0	11.60	AV	8.00	100	Horizontal	Pass
6	17395.988	55.69	74.0	18.31	Peak	192.00	200	Horizontal	Pass
6**	17395.988	46.11	54.0	7.89	AV	192.00	200	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1444.800	41.68	74.0	32.32	Peak	360.00	100	Vertical	Pass
1**	1444.800	32.02	54.0	21.98	AV	360.00	100	Vertical	Pass
2	2424.300	95.06	74.0	-21.06	Peak	139.00	200	Vertical	N/A
2**	2424.300	87.35	54.0	-33.35	AV	139.00	200	Vertical	N/A
3	4840.200	51.28	74.0	22.72	Peak	360.00	150	Vertical	Pass
3**	4840.200	41.14	54.0	12.86	AV	360.00	150	Vertical	Pass
4	6977.000	55.59	74.0	18.41	Peak	302.00	300	Vertical	Pass
4**	6977.000	46.54	54.0	7.46	AV	302.00	300	Vertical	Pass
5	10928.113	52.34	74.0	21.66	Peak	142.00	400	Vertical	Pass
5**	10928.113	42.59	54.0	11.41	AV	142.00	400	Vertical	Pass
6	17403.863	54.88	74.0	19.12	Peak	113.00	100	Vertical	Pass
6**	17403.863	45.34	54.0	8.66	AV	113.00	100	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1430.900	41.83	74.0	32.17	Peak	330.00	300	Horizontal	Pass
1**	1430.900	32.77	54.0	21.23	AV	330.00	300	Horizontal	Pass
2	2428.200	108.24	74.0	-34.24	Peak	96.00	200	Horizontal	N/A
2**	2428.200	101.37	54.0	-47.37	AV	96.00	200	Horizontal	N/A
3	4848.800	52.88	74.0	21.12	Peak	191.00	100	Horizontal	Pass
3**	4848.800	41.90	54.0	12.10	AV	191.00	100	Horizontal	Pass
4	6790.200	54.80	74.0	19.20	Peak	179.00	200	Horizontal	Pass
4**	6790.200	46.03	54.0	7.97	AV	179.00	200	Horizontal	Pass
5	10921.787	52.39	74.0	21.61	Peak	210.00	300	Horizontal	Pass
5**	10921.787	42.85	54.0	11.15	AV	210.00	300	Horizontal	Pass
6	17428.275	54.63	74.0	19.37	Peak	274.00	300	Horizontal	Pass
6**	17428.275	45.65	54.0	8.35	AV	274.00	300	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1487.400	42.60	74.0	31.40	Peak	2.00	100	Vertical	Pass
1**	1487.400	32.16	54.0	21.84	AV	2.00	100	Vertical	Pass
2	2428.400	96.63	74.0	-22.63	Peak	144.00	150	Vertical	N/A
2**	2428.400	89.26	54.0	-35.26	AV	144.00	150	Vertical	N/A
3	4812.000	50.96	74.0	23.04	Peak	166.00	200	Vertical	Pass
3**	4812.000	42.41	54.0	11.59	AV	166.00	200	Vertical	Pass
4	6637.400	54.00	74.0	20.00	Peak	153.00	300	Vertical	Pass
4**	6637.400	44.41	54.0	9.59	AV	153.00	300	Vertical	Pass
5	10919.487	51.75	74.0	22.25	Peak	224.00	100	Vertical	Pass
5**	10919.487	42.39	54.0	11.61	AV	224.00	100	Vertical	Pass
6	17466.337	55.18	74.0	18.82	Peak	360.00	200	Vertical	Pass
6**	17466.337	46.01	54.0	7.99	AV	360.00	200	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1518.000	42.23	74.0	31.77	Peak	260.00	200	Horizontal	Pass
1**	1518.000	32.81	54.0	21.19	AV	260.00	200	Horizontal	Pass
2	2436.100	107.38	74.0	-33.38	Peak	9.00	100	Horizontal	N/A
2**	2436.100	100.33	54.0	-46.33	AV	9.00	100	Horizontal	N/A
3	4866.800	51.86	74.0	22.14	Peak	31.00	150	Horizontal	Pass
3**	4866.800	44.19	54.0	9.81	AV	31.00	150	Horizontal	Pass
4	6978.600	54.76	74.0	19.24	Peak	213.00	100	Horizontal	Pass
4**	6978.600	46.40	54.0	7.60	AV	213.00	100	Horizontal	Pass
5	11780.550	51.67	74.0	22.33	Peak	313.00	400	Horizontal	Pass
5**	11780.550	42.46	54.0	11.54	AV	313.00	400	Horizontal	Pass
6	16812.975	55.17	74.0	18.83	Peak	290.00	300	Horizontal	Pass
6**	16812.975	44.80	54.0	9.20	AV	290.00	300	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1395.100	41.78	74.0	32.22	Peak	145.00	100	Vertical	Pass
1**	1395.100	31.70	54.0	22.30	AV	145.00	100	Vertical	Pass
2	2435.200	94.58	74.0	-20.58	Peak	351.00	150	Vertical	N/A
2**	2435.200	87.30	54.0	-33.30	AV	351.00	150	Vertical	N/A
3	4811.600	51.58	74.0	22.42	Peak	86.00	200	Vertical	Pass
3**	4811.600	42.47	54.0	11.53	AV	86.00	200	Vertical	Pass
4	6426.000	55.13	74.0	18.87	Peak	40.00	300	Vertical	Pass
4**	6426.000	44.47	54.0	9.53	AV	40.00	300	Vertical	Pass
5	10923.225	51.86	74.0	22.14	Peak	93.00	200	Vertical	Pass
5**	10923.225	42.98	54.0	11.02	AV	93.00	200	Vertical	Pass
6	15842.250	55.49	74.0	18.51	Peak	271.00	400	Vertical	Pass
6**	15842.250	44.45	54.0	9.55	AV	271.00	400	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1477.200	42.56	74.0	31.44	Peak	349.00	300	Horizontal	Pass
1**	1477.200	32.57	54.0	21.43	AV	349.00	300	Horizontal	Pass
2	2454.000	106.88	74.0	-32.88	Peak	180.00	100	Horizontal	N/A
2**	2454.000	99.43	54.0	-45.43	AV	180.00	100	Horizontal	N/A
3	4895.000	51.94	74.0	22.06	Peak	121.00	200	Horizontal	Pass
3**	4895.000	41.86	54.0	12.14	AV	121.00	200	Horizontal	Pass
4	6978.800	54.63	74.0	19.37	Peak	133.00	200	Horizontal	Pass
4**	6978.800	45.64	54.0	8.36	AV	133.00	200	Horizontal	Pass
5	10914.025	51.84	74.0	22.16	Peak	59.00	400	Horizontal	Pass
5**	10914.025	41.94	54.0	12.06	AV	59.00	400	Horizontal	Pass
6	16881.488	55.25	74.0	18.75	Peak	0.00	100	Horizontal	Pass
6**	16881.488	45.12	54.0	8.88	AV	0.00	100	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1562.100	42.25	74.0	31.75	Peak	315.00	100	Vertical	Pass
1**	1562.100	32.77	54.0	21.23	AV	315.00	100	Vertical	Pass
2	2454.500	95.92	74.0	-21.92	Peak	135.00	200	Vertical	N/A
2**	2454.500	88.63	54.0	-34.63	AV	135.00	200	Vertical	N/A
3	4812.000	51.63	74.0	22.37	Peak	142.00	150	Vertical	Pass
3**	4812.000	42.28	54.0	11.72	AV	142.00	150	Vertical	Pass
4	6605.000	54.64	74.0	19.36	Peak	165.00	400	Vertical	Pass
4**	6605.000	44.70	54.0	9.30	AV	165.00	400	Vertical	Pass
5	10834.675	51.64	74.0	22.36	Peak	329.00	300	Vertical	Pass
5**	10834.675	42.03	54.0	11.97	AV	329.00	300	Vertical	Pass
6	17435.625	54.75	74.0	19.25	Peak	271.00	200	Vertical	Pass
6**	17435.625	45.97	54.0	8.03	AV	271.00	200	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1285.100	42.07	74.0	31.93	Peak	252.00	200	Horizontal	Pass
1**	1285.100	32.29	54.0	21.71	AV	252.00	200	Horizontal	Pass
2	2459.100	107.26	74.0	-33.26	Peak	93.00	200	Horizontal	N/A
2**	2459.100	99.47	54.0	-45.47	AV	93.00	200	Horizontal	N/A
3	4932.000	51.93	74.0	22.07	Peak	154.00	200	Horizontal	Pass
3**	4932.000	42.30	54.0	11.70	AV	154.00	200	Horizontal	Pass
4	6974.400	54.68	74.0	19.32	Peak	357.00	100	Horizontal	Pass
4**	6974.400	45.90	54.0	8.10	AV	357.00	100	Horizontal	Pass
5	10920.925	51.53	74.0	22.47	Peak	59.00	300	Horizontal	Pass
5**	10920.925	42.43	54.0	11.57	AV	59.00	300	Horizontal	Pass
6	17424.075	55.40	74.0	18.60	Peak	212.00	200	Horizontal	Pass
6**	17424.075	46.12	54.0	7.88	AV	212.00	200	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1318.100	42.33	74.0	31.67	Peak	244.00	300	Vertical	Pass
1**	1318.100	32.44	54.0	21.56	AV	244.00	300	Vertical	Pass
2	2455.200	93.14	74.0	-19.14	Peak	290.00	150	Vertical	N/A
2**	2455.200	86.04	54.0	-32.04	AV	290.00	150	Vertical	N/A
3	4814.800	51.24	74.0	22.76	Peak	324.00	150	Vertical	Pass
3**	4814.800	42.59	54.0	11.41	AV	324.00	150	Vertical	Pass
4	6802.800	54.98	74.0	19.02	Peak	65.00	200	Vertical	Pass
4**	6802.800	45.22	54.0	8.78	AV	65.00	200	Vertical	Pass
5	11785.437	52.07	74.0	21.93	Peak	0.00	300	Vertical	Pass
5**	11785.437	42.95	54.0	11.05	AV	0.00	300	Vertical	Pass
6	16763.363	54.72	74.0	19.28	Peak	172.00	300	Vertical	Pass
6**	16763.363	44.86	54.0	9.14	AV	172.00	300	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1588.000	41.42	74.0	32.58	Peak	204.00	100	Horizontal	Pass
1**	1588.000	32.23	54.0	21.77	AV	204.00	100	Horizontal	Pass
2	2456.800	107.90	74.0	-33.90	Peak	0.00	200	Horizontal	N/A
2**	2456.800	100.54	54.0	-46.54	AV	0.00	200	Horizontal	N/A
3	4931.200	51.62	74.0	22.38	Peak	43.00	150	Horizontal	Pass
3**	4931.200	42.52	54.0	11.48	AV	43.00	150	Horizontal	Pass
4	6807.400	54.71	74.0	19.29	Peak	121.00	400	Horizontal	Pass
4**	6807.400	45.94	54.0	8.06	AV	121.00	400	Horizontal	Pass
5	11339.525	51.59	74.0	22.41	Peak	328.00	400	Horizontal	Pass
5**	11339.525	42.31	54.0	11.69	AV	328.00	400	Horizontal	Pass
6	17418.562	55.27	74.0	18.73	Peak	0.00	300	Horizontal	Pass
6**	17418.562	46.59	54.0	7.41	AV	0.00	300	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1340.900	42.02	74.0	31.98	Peak	69.00	200	Vertical	Pass
1**	1340.900	32.16	54.0	21.84	AV	69.00	200	Vertical	Pass
2	2459.700	95.29	74.0	-21.29	Peak	135.00	200	Vertical	N/A
2**	2459.700	87.79	54.0	-33.79	AV	135.00	200	Vertical	N/A
3	4808.000	51.05	74.0	22.95	Peak	296.00	200	Vertical	Pass
3**	4808.000	43.00	54.0	11.00	AV	296.00	200	Vertical	Pass
4	6978.000	54.81	74.0	19.19	Peak	360.00	100	Vertical	Pass
4**	6978.000	47.78	54.0	6.22	AV	360.00	100	Vertical	Pass
5	11334.638	51.82	74.0	22.18	Peak	102.00	400	Vertical	Pass
5**	11334.638	42.14	54.0	11.86	AV	102.00	400	Vertical	Pass
6	17410.949	55.33	74.0	18.67	Peak	134.00	300	Vertical	Pass
6**	17410.949	45.72	54.0	8.28	AV	134.00	300	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1478.500	41.78	74.0	32.22	Peak	191.00	200	Horizontal	Pass
1**	1478.500	31.79	54.0	22.21	AV	191.00	200	Horizontal	Pass
2	2414.400	108.42	74.0	-34.42	Peak	360.00	200	Horizontal	N/A
2**	2414.400	100.72	54.0	-46.72	AV	360.00	200	Horizontal	N/A
3	4810.000	52.18	74.0	21.82	Peak	357.00	100	Horizontal	Pass
3**	4810.000	42.27	54.0	11.73	AV	357.00	100	Horizontal	Pass
4	6986.200	54.26	74.0	19.74	Peak	200.00	300	Horizontal	Pass
4**	6986.200	45.58	54.0	8.42	AV	200.00	300	Horizontal	Pass
5	10916.037	52.01	74.0	21.99	Peak	312.00	300	Horizontal	Pass
5**	10916.037	42.78	54.0	11.22	AV	312.00	300	Horizontal	Pass
6	15817.575	55.92	74.0	18.08	Peak	133.00	300	Horizontal	Pass
6**	15817.575	44.92	54.0	9.08	AV	133.00	300	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1414.300	42.13	74.0	31.87	Peak	237.00	100	Vertical	Pass
1**	1414.300	32.32	54.0	21.68	AV	237.00	100	Vertical	Pass
2	2409.900	96.32	74.0	-22.32	Peak	339.00	150	Vertical	N/A
2**	2409.900	88.44	54.0	-34.44	AV	339.00	150	Vertical	N/A
3	4926.000	50.90	74.0	23.10	Peak	8.00	150	Vertical	Pass
3**	4926.000	42.31	54.0	11.69	AV	8.00	150	Vertical	Pass
4	6796.400	54.68	74.0	19.32	Peak	0.00	300	Vertical	Pass
4**	6796.400	45.28	54.0	8.72	AV	0.00	300	Vertical	Pass
5	12794.888	51.71	74.0	22.29	Peak	330.00	300	Vertical	Pass
5**	12794.888	41.42	54.0	12.58	AV	330.00	300	Vertical	Pass
6	17421.713	55.47	74.0	18.53	Peak	55.00	400	Vertical	Pass
6**	17421.713	46.55	54.0	7.45	AV	55.00	400	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1457.700	41.98	74.0	32.02	Peak	41.00	100	Horizontal	Pass
1**	1457.700	33.07	54.0	20.93	AV	41.00	100	Horizontal	Pass
2	2414.000	108.02	74.0	-34.02	Peak	93.00	150	Horizontal	N/A
2**	2414.000	100.16	54.0	-46.16	AV	93.00	150	Horizontal	N/A
3	4830.800	51.18	74.0	22.82	Peak	165.00	200	Horizontal	Pass
3**	4830.800	41.43	54.0	12.57	AV	165.00	200	Horizontal	Pass
4	6992.800	54.90	74.0	19.10	Peak	8.00	200	Horizontal	Pass
4**	6992.800	45.57	54.0	8.43	AV	8.00	200	Horizontal	Pass
5	11504.838	51.99	74.0	22.01	Peak	211.00	300	Horizontal	Pass
5**	11504.838	41.62	54.0	12.38	AV	211.00	300	Horizontal	Pass
6	17421.187	55.33	74.0	18.67	Peak	193.00	100	Horizontal	Pass
6**	17421.187	47.03	54.0	6.97	AV	193.00	100	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1506.400	42.02	74.0	31.98	Peak	46.00	400	Vertical	Pass
1**	1506.400	32.91	54.0	21.09	AV	46.00	400	Vertical	Pass
2	2413.400	95.37	74.0	-21.37	Peak	350.00	150	Vertical	N/A
2**	2413.400	87.60	54.0	-33.60	AV	350.00	150	Vertical	N/A
3	4812.400	51.52	74.0	22.48	Peak	360.00	200	Vertical	Pass
3**	4812.400	43.52	54.0	10.48	AV	360.00	200	Vertical	Pass
4	6812.800	54.65	74.0	19.35	Peak	31.00	300	Vertical	Pass
4**	6812.800	44.99	54.0	9.01	AV	31.00	300	Vertical	Pass
5	11816.776	52.20	74.0	21.80	Peak	210.00	200	Vertical	Pass
5**	11816.776	42.82	54.0	11.18	AV	210.00	200	Vertical	Pass
6	17445.075	55.19	74.0	18.81	Peak	331.00	400	Vertical	Pass
6**	17445.075	46.15	54.0	7.85	AV	331.00	400	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11n20 Channel 3

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1404.700	42.96	74.0	31.04	Peak	338.00	200	Horizontal	Pass
1**	1404.700	32.63	54.0	21.37	AV	338.00	200	Horizontal	Pass
2	2418.300	107.67	74.0	-33.67	Peak	104.00	200	Horizontal	N/A
2**	2418.300	99.31	54.0	-45.31	AV	104.00	200	Horizontal	N/A
3	4812.200	51.24	74.0	22.76	Peak	291.00	100	Horizontal	Pass
3**	4812.200	42.05	54.0	11.95	AV	291.00	100	Horizontal	Pass
4	6154.000	54.79	74.0	19.21	Peak	64.00	300	Horizontal	Pass
4**	6154.000	45.55	54.0	8.45	AV	64.00	300	Horizontal	Pass
5	10928.113	51.75	74.0	22.25	Peak	0.00	100	Horizontal	Pass
5**	10928.113	42.42	54.0	11.58	AV	0.00	100	Horizontal	Pass
6	17427.489	54.86	74.0	19.14	Peak	134.00	300	Horizontal	Pass
6**	17427.489	46.82	54.0	7.18	AV	134.00	300	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11n20 Channel 3

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1572.300	42.79	74.0	31.21	Peak	21.00	200	Vertical	Pass
1**	1572.300	32.51	54.0	21.49	AV	21.00	200	Vertical	Pass
2	2420.900	95.15	74.0	-21.15	Peak	282.00	200	Vertical	N/A
2**	2420.900	87.15	54.0	-33.15	AV	282.00	200	Vertical	N/A
3	4816.800	51.44	74.0	22.56	Peak	360.00	100	Vertical	Pass
3**	4816.800	41.73	54.0	12.27	AV	360.00	100	Vertical	Pass
4	6806.800	55.39	74.0	18.61	Peak	244.00	300	Vertical	Pass
4**	6806.800	46.00	54.0	8.00	AV	244.00	300	Vertical	Pass
5	11824.250	52.03	74.0	21.97	Peak	41.00	300	Vertical	Pass
5**	11824.250	42.36	54.0	11.64	AV	41.00	300	Vertical	Pass
6	17417.251	55.14	74.0	18.86	Peak	250.00	400	Vertical	Pass
6**	17417.251	45.73	54.0	8.27	AV	250.00	400	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11n20 Channel 4

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1337.100	42.75	74.0	31.25	Peak	356.00	400	Horizontal	Pass
1**	1337.100	31.52	54.0	22.48	AV	356.00	400	Horizontal	Pass
2	2429.800	108.17	74.0	-34.17	Peak	101.00	150	Horizontal	N/A
2**	2429.800	100.81	54.0	-46.81	AV	101.00	150	Horizontal	N/A
3	4845.400	51.24	74.0	22.76	Peak	338.00	150	Horizontal	Pass
3**	4845.400	41.71	54.0	12.29	AV	338.00	150	Horizontal	Pass
4	6588.000	54.95	74.0	19.05	Peak	145.00	200	Horizontal	Pass
4**	6588.000	45.54	54.0	8.46	AV	145.00	200	Horizontal	Pass
5	12785.438	51.83	74.0	22.17	Peak	325.00	200	Horizontal	Pass
5**	12785.438	42.31	54.0	11.69	AV	325.00	200	Horizontal	Pass
6	17396.251	54.44	74.0	19.56	Peak	360.00	400	Horizontal	Pass
6**	17396.251	45.18	54.0	8.82	AV	360.00	400	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11n20 Channel 4

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1419.100	41.90	74.0	32.10	Peak	11.00	100	Vertical	Pass
1**	1419.100	32.07	54.0	21.93	AV	11.00	100	Vertical	Pass
2	2429.900	97.27	74.0	-23.27	Peak	191.00	100	Vertical	N/A
2**	2429.900	90.00	54.0	-36.00	AV	191.00	100	Vertical	N/A
3	4942.200	51.61	74.0	22.39	Peak	220.00	150	Vertical	Pass
3**	4942.200	41.58	54.0	12.42	AV	220.00	150	Vertical	Pass
4	6982.200	54.97	74.0	19.03	Peak	64.00	200	Vertical	Pass
4**	6982.200	45.00	54.0	9.00	AV	64.00	200	Vertical	Pass
5	11764.163	52.08	74.0	21.92	Peak	360.00	200	Vertical	Pass
5**	11764.163	42.64	54.0	11.36	AV	360.00	200	Vertical	Pass
6	17432.738	54.99	74.0	19.01	Peak	308.00	100	Vertical	Pass
6**	17432.738	45.81	54.0	8.19	AV	308.00	100	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1491.000	42.07	74.0	31.93	Peak	6.00	100	Horizontal	Pass
1**	1491.000	31.83	54.0	22.17	AV	6.00	100	Horizontal	Pass
2	2435.000	107.66	74.0	-33.66	Peak	65.00	100	Horizontal	N/A
2**	2435.000	99.91	54.0	-45.91	AV	65.00	100	Horizontal	N/A
3	4937.800	51.84	74.0	22.16	Peak	145.00	100	Horizontal	Pass
3**	4937.800	42.10	54.0	11.90	AV	145.00	100	Horizontal	Pass
4	6326.800	54.21	74.0	19.79	Peak	202.00	300	Horizontal	Pass
4**	6326.800	44.40	54.0	9.60	AV	202.00	300	Horizontal	Pass
5	11771.350	52.35	74.0	21.65	Peak	109.00	400	Horizontal	Pass
5**	11771.350	42.14	54.0	11.86	AV	109.00	400	Horizontal	Pass
6	17424.075	55.01	74.0	18.99	Peak	213.00	100	Horizontal	Pass
6**	17424.075	46.41	54.0	7.59	AV	213.00	100	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1585.300	41.96	74.0	32.04	Peak	210.00	300	Vertical	Pass
1**	1585.300	33.38	54.0	20.62	AV	210.00	300	Vertical	Pass
2	2435.700	94.14	74.0	-20.14	Peak	258.00	150	Vertical	N/A
2**	2435.700	87.07	54.0	-33.07	AV	258.00	150	Vertical	N/A
3	4750.400	51.60	74.0	22.40	Peak	360.00	150	Vertical	Pass
3**	4750.400	41.42	54.0	12.58	AV	360.00	150	Vertical	Pass
4	6992.800	54.93	74.0	19.07	Peak	281.00	200	Vertical	Pass
4**	6992.800	45.19	54.0	8.81	AV	281.00	200	Vertical	Pass
5	11506.562	51.58	74.0	22.42	Peak	24.00	100	Vertical	Pass
5**	11506.562	41.40	54.0	12.60	AV	24.00	100	Vertical	Pass
6	17421.713	55.03	74.0	18.97	Peak	192.00	400	Vertical	Pass
6**	17421.713	46.25	54.0	7.75	AV	192.00	400	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1402.000	41.87	74.0	32.13	Peak	345.00	100	Horizontal	Pass
1**	1402.000	32.60	54.0	21.40	AV	345.00	100	Horizontal	Pass
2	2453.400	106.79	74.0	-32.79	Peak	172.00	200	Horizontal	N/A
2**	2453.400	99.88	54.0	-45.88	AV	172.00	200	Horizontal	N/A
3	4900.400	51.37	74.0	22.63	Peak	98.00	200	Horizontal	Pass
3**	4900.400	42.10	54.0	11.90	AV	98.00	200	Horizontal	Pass
4	6737.200	54.73	74.0	19.27	Peak	65.00	200	Horizontal	Pass
4**	6737.200	44.59	54.0	9.41	AV	65.00	200	Horizontal	Pass
5	12774.674	51.67	74.0	22.33	Peak	74.00	200	Horizontal	Pass
5**	12774.674	41.89	54.0	12.11	AV	74.00	200	Horizontal	Pass
6	17471.850	55.41	74.0	18.59	Peak	93.00	200	Horizontal	Pass
6**	17471.850	46.32	54.0	7.68	AV	93.00	200	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1507.000	42.05	74.0	31.95	Peak	265.00	100	Vertical	Pass
1**	1507.000	32.80	54.0	21.20	AV	265.00	100	Vertical	Pass
2	2448.300	93.97	74.0	-19.97	Peak	284.00	100	Vertical	N/A
2**	2448.300	86.09	54.0	-32.09	AV	284.00	100	Vertical	N/A
3	4812.400	51.32	74.0	22.68	Peak	8.00	100	Vertical	Pass
3**	4812.400	42.32	54.0	11.68	AV	8.00	100	Vertical	Pass
4	6980.800	54.36	74.0	19.64	Peak	42.00	100	Vertical	Pass
4**	6980.800	45.57	54.0	8.43	AV	42.00	100	Vertical	Pass
5	11336.362	51.87	74.0	22.13	Peak	178.00	300	Vertical	Pass
5**	11336.362	42.17	54.0	11.83	AV	178.00	300	Vertical	Pass
6	17468.436	55.36	74.0	18.64	Peak	151.00	400	Vertical	Pass
6**	17468.436	45.88	54.0	8.12	AV	151.00	400	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1572.000	42.25	74.0	31.75	Peak	38.00	200	Horizontal	Pass
1**	1572.000	31.88	54.0	22.12	AV	38.00	200	Horizontal	Pass
2	2458.400	107.57	74.0	-33.57	Peak	170.00	200	Horizontal	N/A
2**	2458.400	100.22	54.0	-46.22	AV	170.00	200	Horizontal	N/A
3	4785.400	51.31	74.0	22.69	Peak	360.00	200	Horizontal	Pass
3**	4785.400	42.10	54.0	11.90	AV	360.00	200	Horizontal	Pass
4	6806.600	55.01	74.0	18.99	Peak	244.00	300	Horizontal	Pass
4**	6806.600	46.39	54.0	7.61	AV	244.00	300	Horizontal	Pass
5	10919.487	52.03	74.0	21.97	Peak	60.00	200	Horizontal	Pass
5**	10919.487	43.46	54.0	10.54	AV	60.00	200	Horizontal	Pass
6	17428.011	56.12	74.0	17.88	Peak	37.00	400	Horizontal	Pass
6**	17428.011	46.57	54.0	7.43	AV	37.00	400	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1313.200	41.90	74.0	32.10	Peak	154.00	100	Vertical	Pass
1**	1313.200	32.51	54.0	21.49	AV	154.00	100	Vertical	Pass
2	2455.500	94.59	74.0	-20.59	Peak	289.00	200	Vertical	N/A
2**	2455.500	87.31	54.0	-33.31	AV	289.00	200	Vertical	N/A
3	4919.600	51.00	74.0	23.00	Peak	345.00	100	Vertical	Pass
3**	4919.600	41.64	54.0	12.36	AV	345.00	100	Vertical	Pass
4	6976.200	54.57	74.0	19.43	Peak	99.00	100	Vertical	Pass
4**	6976.200	46.53	54.0	7.47	AV	99.00	100	Vertical	Pass
5	11329.750	51.78	74.0	22.22	Peak	43.00	100	Vertical	Pass
5**	11329.750	42.71	54.0	11.29	AV	43.00	100	Vertical	Pass
6	16889.625	55.56	74.0	18.44	Peak	173.00	400	Vertical	Pass
6**	16889.625	45.83	54.0	8.17	AV	173.00	400	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1547.700	41.54	74.0	32.46	Peak	124.00	400	Horizontal	Pass
1**	1547.700	31.19	54.0	22.81	AV	124.00	400	Horizontal	Pass
2	2455.400	107.80	74.0	-33.80	Peak	18.00	200	Horizontal	N/A
2**	2455.400	100.28	54.0	-46.28	AV	18.00	200	Horizontal	N/A
3	4874.800	51.48	74.0	22.52	Peak	134.00	150	Horizontal	Pass
3**	4874.800	41.94	54.0	12.06	AV	134.00	150	Horizontal	Pass
4	6975.000	54.63	74.0	19.37	Peak	246.00	200	Horizontal	Pass
4**	6975.000	46.12	54.0	7.88	AV	246.00	200	Horizontal	Pass
5	11776.525	52.07	74.0	21.93	Peak	125.00	100	Horizontal	Pass
5**	11776.525	42.01	54.0	11.99	AV	125.00	100	Horizontal	Pass
6	16056.188	55.33	74.0	18.67	Peak	55.00	400	Horizontal	Pass
6**	16056.188	44.63	54.0	9.37	AV	55.00	400	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1493.200	42.70	74.0	31.30	Peak	58.00	400	Vertical	Pass
1**	1493.200	31.89	54.0	22.11	AV	58.00	400	Vertical	Pass
2	2459.500	94.93	74.0	-20.93	Peak	99.00	200	Vertical	N/A
2**	2459.500	87.98	54.0	-33.98	AV	99.00	200	Vertical	N/A
3	4927.000	51.93	74.0	22.07	Peak	246.00	150	Vertical	Pass
3**	4927.000	41.55	54.0	12.45	AV	246.00	150	Vertical	Pass
4	6806.000	54.43	74.0	19.57	Peak	246.00	400	Vertical	Pass
4**	6806.000	46.07	54.0	7.93	AV	246.00	400	Vertical	Pass
5	11810.737	52.45	74.0	21.55	Peak	360.00	400	Vertical	Pass
5**	11810.737	42.11	54.0	11.89	AV	360.00	400	Vertical	Pass
6	17470.276	54.99	74.0	19.01	Peak	310.00	200	Vertical	Pass
6**	17470.276	45.72	54.0	8.28	AV	310.00	200	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)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2387.550	57.85	74.0	16.15	Peak	12.00	100	Horizontal	Pass
1**	2387.550	46.51	54.0	7.49	AV	12.00	100	Horizontal	Pass
2	2389.950	57.15	74.0	16.85	Peak	49.00	100	Horizontal	Pass
2**	2389.950	47.34	54.0	6.66	AV	49.00	100	Horizontal	Pass

802.11b CHANNEL 11

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.590	58.34	74.0	15.66	Peak	4.00	100	Horizontal	Pass
1**	2483.590	50.16	54.0	3.84	AV	4.00	100	Horizontal	Pass
2	2487.310	60.29	74.0	13.71	Peak	360.00	150	Horizontal	Pass
2**	2487.310	49.99	54.0	4.01	AV	360.00	150	Horizontal	Pass
3	2486.770	57.78	74.0	16.22	Peak	348.00	150	Horizontal	Pass
3**	2486.770	50.70	54.0	3.30	AV	348.00	150	Horizontal	Pass

802.11g CHANNEL 1

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2388.500	67.97	74.0	6.03	Peak	4.00	150	Horizontal	Pass
1**	2388.500	48.15	54.0	5.85	AV	4.00	150	Horizontal	Pass
2	2389.950	63.78	74.0	10.22	Peak	25.00	150	Horizontal	Pass
2**	2389.950	49.60	54.0	4.40	AV	25.00	150	Horizontal	Pass

802.11g CHANNEL 2

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2389.450	65.76	74.0	8.24	Peak	95.00	200	Horizontal	Pass
1**	2389.450	47.81	54.0	6.19	AV	95.00	200	Horizontal	Pass
2	2389.950	63.76	74.0	10.24	Peak	76.00	200	Horizontal	Pass
2**	2389.950	49.16	54.0	4.84	AV	76.00	200	Horizontal	Pass

802.11g CHANNEL 3

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2388.800	65.69	74.0	8.31	Peak	81.00	150	Horizontal	Pass
1**	2388.800	48.50	54.0	5.50	AV	81.00	150	Horizontal	Pass
2	2389.950	62.53	74.0	11.47	Peak	205.00	150	Horizontal	Pass
2**	2389.950	48.60	54.0	5.40	AV	205.00	150	Horizontal	Pass

802.11g CHANNEL 4

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2388.850	65.73	74.0	8.27	Peak	353.00	100	Horizontal	Pass
1**	2388.850	47.65	54.0	6.35	AV	353.00	100	Horizontal	Pass
2	2389.950	63.78	74.0	10.22	Peak	0.00	100	Horizontal	Pass
2**	2389.950	48.05	54.0	5.95	AV	0.00	100	Horizontal	Pass

802.11g CHANNEL 9

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.575	62.90	74.0	11.10	Peak	102.00	150	Horizontal	Pass
1**	2483.575	49.90	54.0	4.10	AV	102.00	150	Horizontal	Pass
2	2483.815	66.32	74.0	7.68	Peak	187.00	200	Horizontal	Pass
2**	2483.815	49.85	54.0	4.15	AV	187.00	200	Horizontal	Pass
3	2484.115	61.63	74.0	12.37	Peak	82.00	150	Horizontal	Pass
3**	2484.115	50.35	54.0	3.65	AV	82.00	150	Horizontal	Pass

802.11g CHANNEL 10

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.515	65.16	74.0	8.84	Peak	215.00	100	Horizontal	Pass
1**	2483.515	49.26	54.0	4.74	AV	215.00	100	Horizontal	Pass
2	2484.655	69.04	74.0	4.96	Peak	174.00	200	Horizontal	Pass
2**	2484.655	48.73	54.0	5.27	AV	174.00	200	Horizontal	Pass
3	2484.670	61.63	74.0	12.37	Peak	106.00	150	Horizontal	Pass
3**	2484.670	50.03	54.0	3.97	AV	106.00	150	Horizontal	Pass

802.11g CHANNEL 11

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.545	65.92	74.0	8.08	Peak	125.00	100	Horizontal	Pass
1**	2483.545	49.92	54.0	4.08	AV	125.00	100	Horizontal	Pass
2	2484.040	67.14	74.0	6.86	Peak	3.00	200	Horizontal	Pass
2**	2484.040	49.42	54.0	4.58	AV	3.00	200	Horizontal	Pass
3	2483.875	63.89	74.0	10.11	Peak	3.00	150	Horizontal	Pass
3**	2483.875	50.18	54.0	3.82	AV	3.00	150	Horizontal	Pass

802.11n20 CHANNEL 1

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2389.750	67.70	74.0	6.30	Peak	0.00	100	Horizontal	Pass
1**	2389.750	49.15	54.0	4.85	AV	0.00	100	Horizontal	Pass
2	2389.950	67.27	74.0	6.73	Peak	0.00	200	Horizontal	Pass
2**	2389.950	48.60	54.0	5.40	AV	0.00	200	Horizontal	Pass

802.11n20 CHANNEL 2

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2389.750	70.00	74.0	4.00	Peak	98.00	100	Horizontal	Pass
1**	2389.750	48.33	54.0	5.67	AV	98.00	100	Horizontal	Pass
2	2389.950	68.20	74.0	5.80	Peak	90.00	200	Horizontal	Pass
2**	2389.950	49.38	54.0	4.62	AV	90.00	200	Horizontal	Pass

802.11n20 CHANNEL 3

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2389.800	69.52	74.0	4.48	Peak	99.00	150	Horizontal	Pass
1**	2389.800	49.23	54.0	4.77	AV	99.00	150	Horizontal	Pass
2	2389.950	67.01	74.0	6.99	Peak	179.00	100	Horizontal	Pass
2**	2389.950	49.78	54.0	4.22	AV	179.00	100	Horizontal	Pass
3	2389.850	69.20	74.0	4.80	Peak	105.00	150	Horizontal	Pass
3**	2389.850	50.95	54.0	3.05	AV	105.00	150	Horizontal	Pass

802.11n20 CHANNEL 4

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2389.550	67.34	74.0	6.66	Peak	96.00	150	Horizontal	Pass
1**	2389.550	48.34	54.0	5.66	AV	96.00	150	Horizontal	Pass
2	2389.950	60.70	74.0	13.30	Peak	225.00	100	Horizontal	Pass
2**	2389.950	49.09	54.0	4.91	AV	225.00	100	Horizontal	Pass

802.11n20 CHANNEL 9

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.530	65.72	74.0	8.28	Peak	168.00	150	Horizontal	Pass
1**	2483.530	49.90	54.0	4.10	AV	168.00	150	Horizontal	Pass
2	2486.860	66.26	74.0	7.74	Peak	170.00	150	Horizontal	Pass
2**	2486.860	48.35	54.0	5.65	AV	170.00	150	Horizontal	Pass
3	2484.070	61.88	74.0	12.12	Peak	187.00	150	Horizontal	Pass
3**	2484.070	50.79	54.0	3.21	AV	187.00	150	Horizontal	Pass

802.11n20 CHANNEL 10

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.530	68.64	74.0	5.36	Peak	100.00	150	Horizontal	Pass
1**	2483.530	49.48	54.0	4.52	AV	100.00	150	Horizontal	Pass
2	2484.340	68.97	74.0	5.03	Peak	100.00	150	Horizontal	Pass
2**	2484.340	50.22	54.0	3.78	AV	100.00	150	Horizontal	Pass
3	2483.740	67.44	74.0	6.56	Peak	92.00	150	Horizontal	Pass
3**	2483.740	50.96	54.0	3.04	AV	92.00	150	Horizontal	Pass

802.11n20 CHANNEL 11

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.530	66.06	74.0	7.94	Peak	359.00	150	Horizontal	Pass
1**	2483.530	49.50	54.0	4.50	AV	359.00	150	Horizontal	Pass
2	2484.385	66.68	74.0	7.32	Peak	356.00	100	Horizontal	Pass
2**	2484.385	48.50	54.0	5.50	AV	356.00	100	Horizontal	Pass

A.8 Power Spectral Density (PSD)

Test Data

802.11b Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
CH 1	-4.81	8
CH 6	-5.12	8
CH 11	-4.41	8

802.11g Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
CH 1	-9.56	8
CH 6	-6.66	8
CH 11	-13.02	8

802.11n-20 MHz Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
CH 1	-11.95	8
CH 6	-5.86	8
CH 11	-12.30	8

Test Plots

802.11b CHANNEL 1



802.11b CHANNEL 6



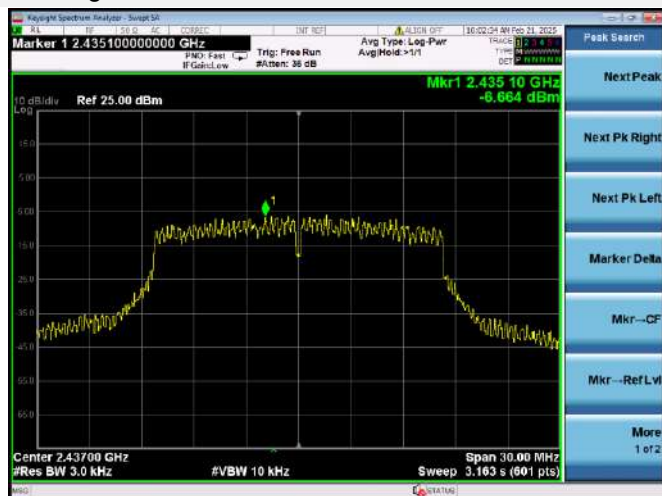
802.11b CHANNEL 11



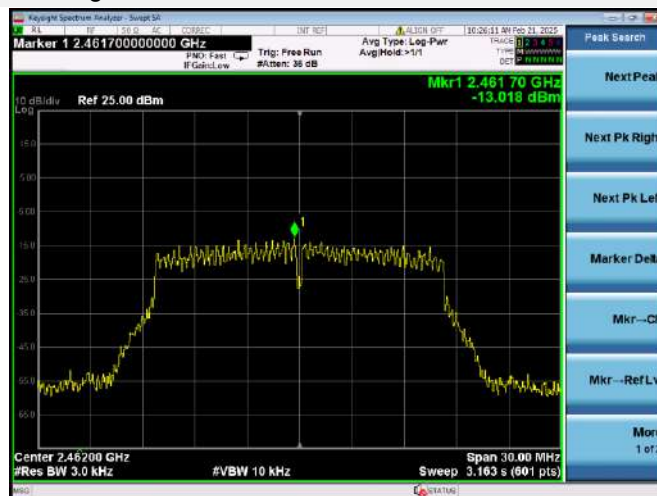
802.11g CHANNEL 1



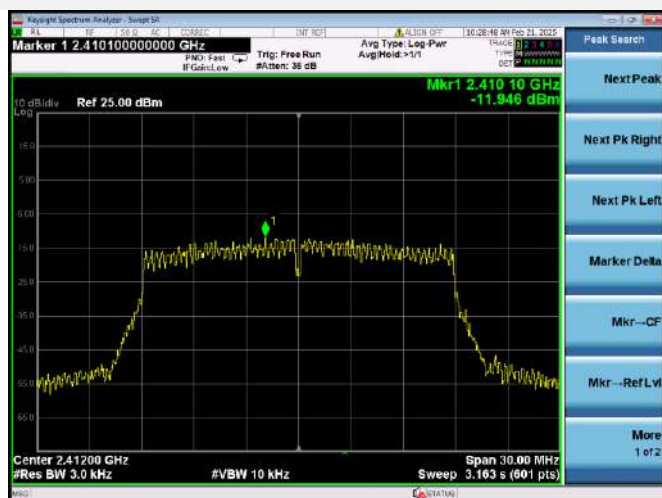
802.11g CHANNEL 6



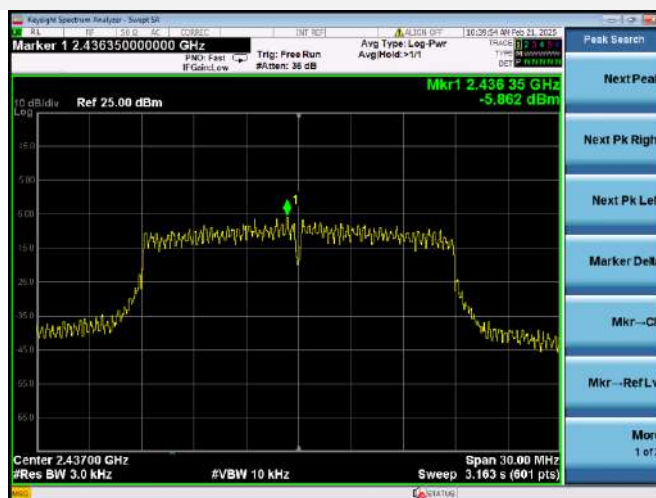
802.11g CHANNEL 11



802.11n-20 MHz CHANNEL 1



802.11n-20 MHz CHANNEL 6



802.11n-20 MHz CHANNEL 11



ANNEX B TEST SETUP PHOTOS

Please refer the document “BL-SZ2510527-AR-2.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SZ2510527-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SZ2510527-AI.PDF”.

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