

TEST REPORT

Applicant: Seeed Technology Co., Ltd.
Address: 9F, Building G3, TCL International E city, Shuguang Community, Xili street, Nanshan, Shenzhen, Guangdong Province, P.R.C
Equipment Type: Wio-S3 Wireless Module
Model Name: Wio-S3 (refer to section 2.3)
Brand Name: Seeed Studio
FCC ID: Z4T-WIO-S3
Test Standard: 47 CFR Part 15 Subpart C (refer to section 3.1)
Sample Arrival Date: Jun. 15, 2026
Test Date: Jun. 19, 2026 - Jul. 04, 2026
Date of Issue: Jul. 31, 2026

ISSUED BY:

Shenzhen BALUN Technology Co., Ltd.



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Revision History

Version	Issue Date	Revisions
<u>Rev. 01</u>	<u>Jul. 31, 2026</u>	<u>Initial Issue</u>

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1 GENERAL INFORMATION

1.1 Test Laboratory

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

1.2 Test Location

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

2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	Seeed Technology Co., Ltd.
Address	9F, Building G3, TCL International E city, Shuguang Community, Xili street, Nanshan, Shenzhen, Guangdong Province, P.R.C

2.2 Manufacturer Information

Manufacturer	Seeed Technology Co., Ltd.
Address	9F, Building G3, TCL International E city, Shuguang Community, Xili street, Nanshan, Shenzhen, Guangdong Province, P.R.C

2.3 General Description for Equipment under Test (EUT)

EUT Name	Wio-S3 Wireless Module
Model Name Under Test	Wio-S3
Series Model Name	Wio-S3-N
Description of Model name differentiation	Wio-S3 has IPEX connector, Wio-S3-N doesn't have IPEX connector. (this information provided by the applicant)
Hardware Version	V1.0
Software Version	V1.0
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

2.4 Technical Information

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

Frequency Range	2.400 GHz - 2.4835 GHz
Modulation Technology	DSSS, OFDM
Product Type	☒ Mobile ☐ Portable ☐ Fix Location
Antenna System (eg., MIMO, Smart Antenna)	N/A
Categorization as Correlated or Completely Uncorrelated	N/A
Antenna Type	FPC Antenna
Antenna Gain	2.35 dBi
About the Product	Only the WIFI 802.11b, 802.11g and 802.11n (HT20/40) was tested in this report.

2.5 Channel List

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

Modulation technology	Modulation Type	Transfer Rate (Mbps)(Single RF path)
DSSS (802.11b)	DBPSK	1
	DQPSK	2
	CCK	5.5/11
OFDM (802.11g)	BPSK	6/9
	QPSK	12/18
	16QAM	24/36
	64QAM	48/54
OFDM (802.11n-20 MHz)	BPSK	6.5/7.2
	QPSK	13/19.5/14.4/21.7
	16QAM	26/39/28.9/43.3
	64QAM	52/58.5/65/57.8/65/72.2
OFDM (802.11n-40 MHz)	BPSK	13.5/15
	QPSK	27/40.5/30/45
	16QAM	54/81/60/90
	64QAM	108/121.5/135/120/150

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

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

Note: The above EUT information in section 2.5 was declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or user's manual.

3 SUMMARY OF TEST RESULTS

3.1 Test Standards

No.	Identity	Document Title
1	47 CFR Part 15, Subpart C	Intentional radiators of radio frequency equipment
2	ANSI C63.10-2020 + Cor. 1-2023 + C63.10a-2024 + Errata to C63.10a-2024	American National Standard for Procedures for Compliance Testing of Unlicensed Wireless Devices
3	KDB Publication 558074 D01v05r02	GUIDANCE FOR COMPLIANCE MEASUREMENTS ON DIGITAL TRANSMISSION SYSTEM, FREQUENCY HOPPING SPREAD SPECTRUM SYSTEM, AND HYBRID SYSTEM DEVICES OPERATING UNDER SECTION 15.247 OF THE FCC RULES

3.2 Test Verdict

No.	Description	FCC PART No.	Test Result	Verdict
1	Antenna Requirement	15.203	N/A	Pass ^{Note}
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: 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	51% to 66%	
Atmospheric Pressure	100 kPa to 102 kPa	
Temperature	NT (Normal Temperature)	+19.3℃ to +26.9℃
Working Voltage of the EUT	NV (Normal Voltage)	5 V

4.2 Test Equipment List

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer	KEYSIGHT	N9020A	MY46471071	2026.06.01	2027.05.31
Power Sensor	KEYSIGHT	U2063XA	MY58000247	2026.06.01	2027.05.31
Spectrum Analyzer	KEYSIGHT	N9020A	MY54432240	2026.03.24	2027.03.23
Test Antenna-Horn	SCHWARZBECK	BBHA 9120D	01631	2025.02.22	2028.02.21
Test Antenna-Horn	A-INFO	LB-180400KF	J211060273	2024.06.15	2027.06.14
Anechoic Chamber	EMC Electronic Co, Ltd	9m*6m*6m	213	2026.03.03	2028.03.02
Amplifier	COM-MV	LSCX_LNA1-12G-01	180602	2026.05.20	2027.05.19
Amplifier	COM-MV	XKu_LNA7-18G-01	180601	2026.05.20	2027.05.19
Amplifier	COM-MV	KA LNA18 40G-01	10248150	2025.12.04	2026.12.03
EMI Receiver	ROHDE&SCHWARZ	ESR7	103027	2025.10.30	2026.10.29
Test Antenna-Loop	SCHWARZBECK	FMZB 1519	1519-037	2024.01.23	2027.01.22
Amplifier (30MHz-1GHz)	COM-MV	ZT30-1000M	B2018054558	2025.11.26	2026.11.25
Test Antenna-Bi-Log	SCHWARZBECK	VULB 9168	883	2025.03.23	2028.03.22
Anechoic Chamber(10m#2)	YiHeng	21m*11m*8m	101-1	2025.10.16	2028.10.15
EMI Receiver	KEYSIGHT	N9010B	MY57110309	2025.09.25	2026.09.24
LISN	SCHWARZBECK	NSLK 8127	8127-687	2026.03.25	2027.03.24
ISN	TESEQ	ISN T800	34449	2025.10.20	2026.10.19
ISN	TESEQ	ISN T8-Cat6	53561	2026.05.29	2027.05.28
Shielded Room	Chang Chuang	4m*4m*3m	662	2025.10.12	2028.10.11

4.3 Test Software List

Description	Manufacturer	Software Version	Serial No.	Applicable test Setup
BL410R	BALUN	V3.0.1.528	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%

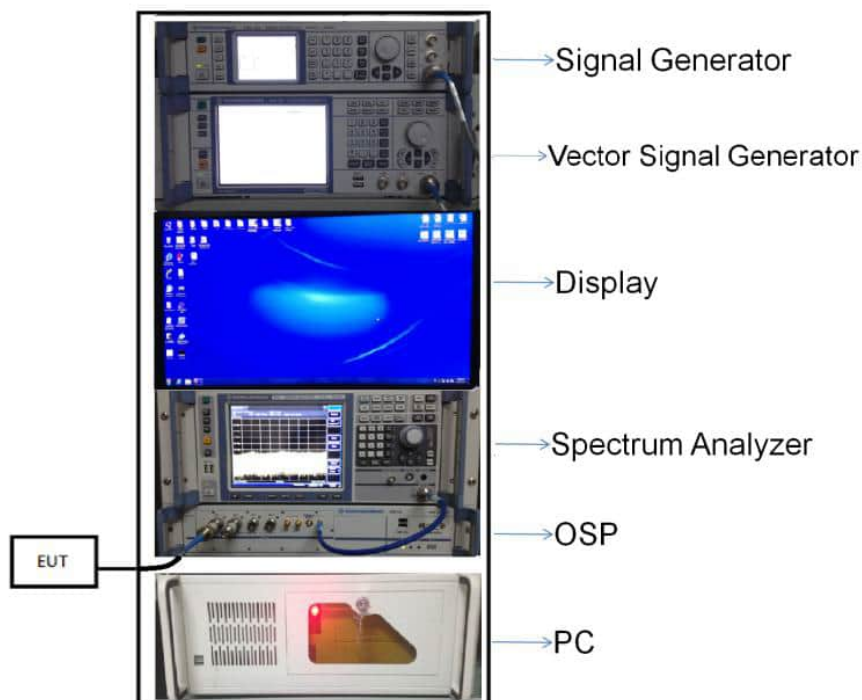
4.5 Description of Test Setup

4.5.1 For Antenna Port Test

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

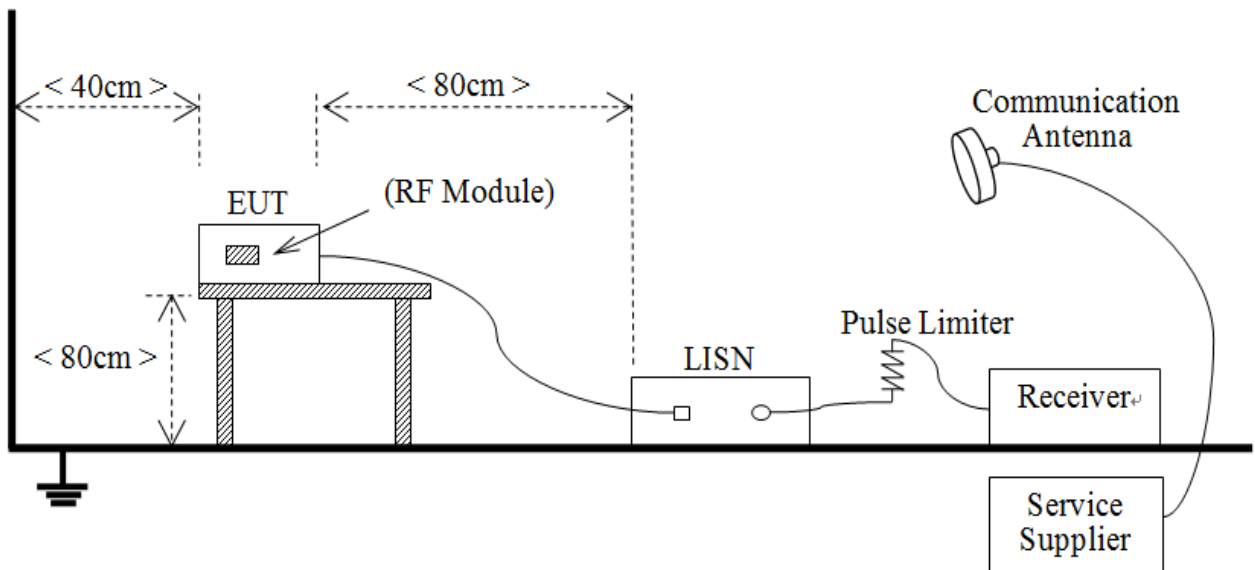
For example: the measurement value is 10 dBm and the cable 0.5dBm used, then the final result of EUT:

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



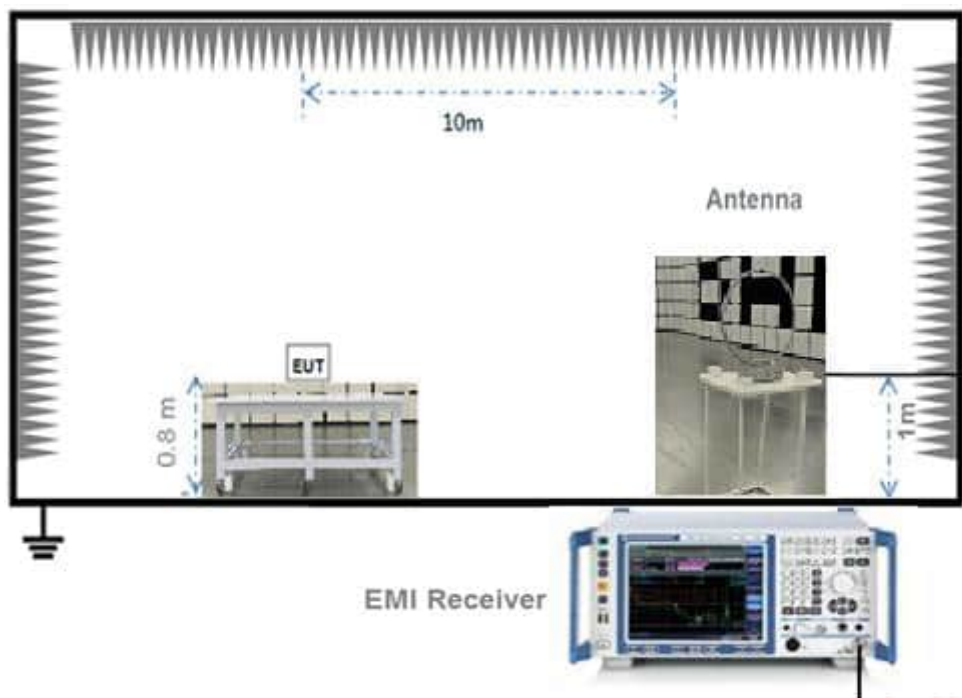
(Diagram 1)

4.5.2 For AC Power Supply Port Test



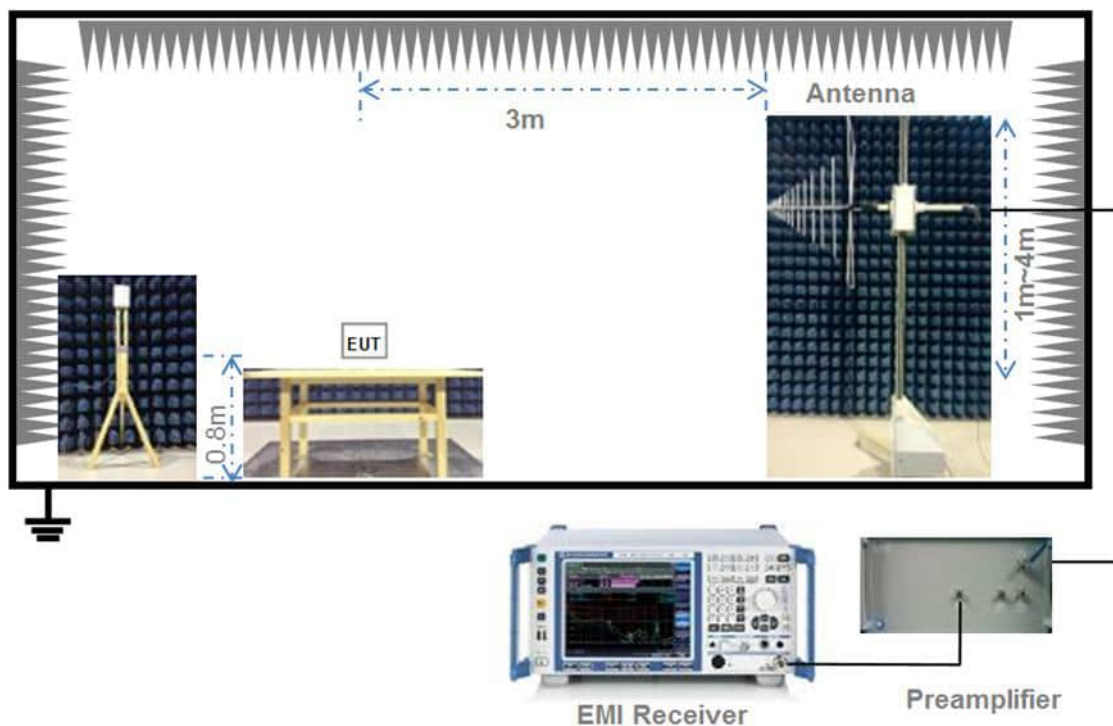
(Diagram 2)

4.5.3 For Radiated Test (Below 30 MHz)



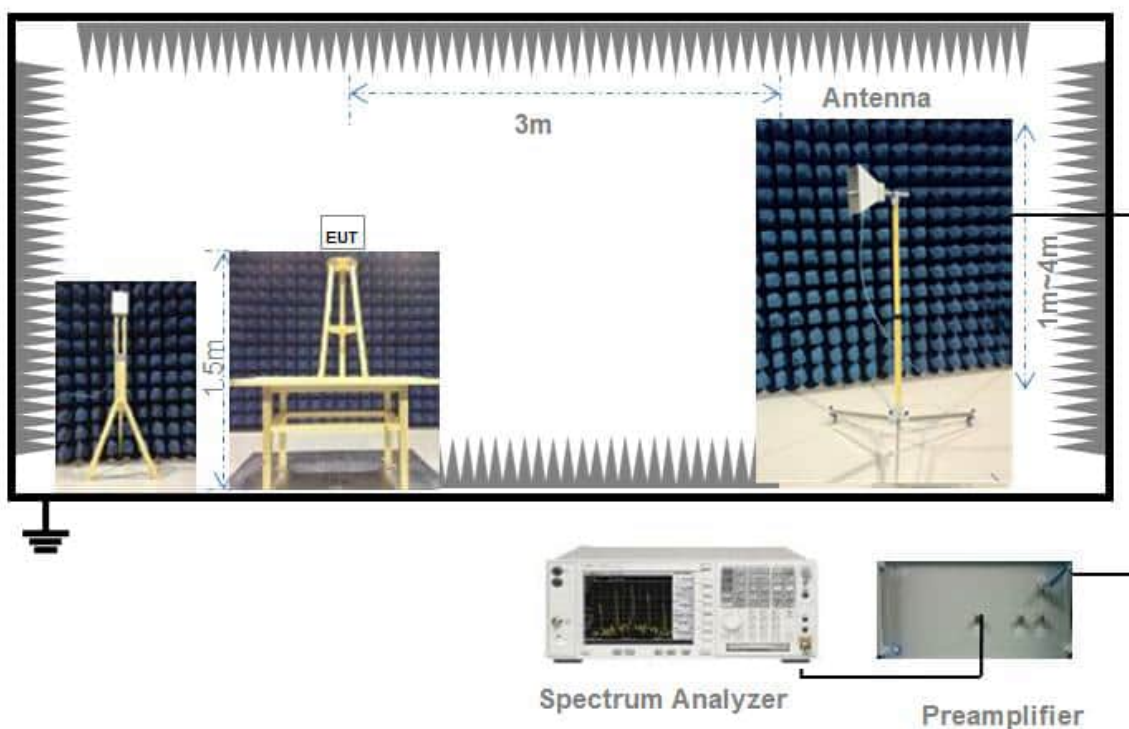
(Diagram 3)

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
Compliance with 15.203, use of a standard antenna jack or electrical connector is prohibited.	The antenna is the unique connector with a wire antenna.

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

5.1.3 Antenna Gain

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

5.2 Output Power

5.2.1 Test Limit

FCC § 15.247(b)

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

5.2.2 Test Setup

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

5.2.3 Test Procedure

Maximum peak conducted output power

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

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

Maximum conducted (average) output power (Reporting Only)

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

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

Measurements of duty cycle

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

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

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

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

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

5.2.4 Test Result

Please refer to ANNEX A.1.

5.3 Occupied Bandwidth

5.3.1 Limit

FCC §15.247(a)

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

5.3.2 Test Setup

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

5.3.3 Test Procedure

Option 1:

Use the following spectrum analyzer settings:

Set RBW = shall be in the range of 1% to 5% of the OBW but not less than 100 kHz.

Set the video bandwidth (VBW) ≥ 3 RBW.

Detector = Peak.

Trace mode = max hold.

Sweep = No faster than coupled (auto) time.

Allow the trace to stabilize.

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

Option 2:

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

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

99% bandwidth:

Use the following spectrum analyzer settings:

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

Set the video bandwidth (VBW) ≥ 3 RBW.

Set the Span to 1.5 to 5 times of OBW.

Detector = Peak.

Trace mode = max hold.

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

5.3.4 Test Result

Please refer to ANNEX A.2.

5.4 Conducted Spurious Emission

5.4.1 Limit

FCC §15.247(d)

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

5.4.2 Test Setup

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

5.4.3 Test Procedure

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

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

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

Reference level measurement

Establish a reference level by using the following procedure:

Set instrument center frequency to DTS channel center frequency.

Set the span to ≥ 1.5 times the DTS bandwidth.

Set the RBW = 100 kHz.

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

Detector = peak.

Sweep time = auto couple.

Trace mode = max hold.

Allow trace to fully stabilize.

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

Emission level measurement

Use the following spectrum analyzer settings:

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

Set the RBW = 100 kHz.

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

Detector = peak.

Sweep time = auto couple.

Trace mode = max hold.

Allow trace to fully stabilize.

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

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

5.4.4 Test Result

Please refer to ANNEX A.3.

5.5 Band Edge (Authorized-band band-edge)

5.5.1 Limit

FCC §15.247(d)

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

5.5.2 Test Setup

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

5.5.3 Test Procedure

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

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

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

Reference level measurement:

Establish a reference level by using the following procedure:

Set instrument center frequency to DTS channel center frequency.

Set the span to ≥ 1.5 times the DTS bandwidth.

Set the RBW = 100 kHz.

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

Detector = peak.

Sweep time = No faster than coupled auto time.

Trace mode = max hold.

Allow trace to fully stabilize.

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

Emission level measurement:

Use the following spectrum analyzer settings:

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

Set the RBW = 100 kHz.

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

Detector = peak.

Sweep time = No faster than coupled auto time.

Trace mode = max hold.

Allow trace to fully stabilize.

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

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

5.5.4 Test Result

Please refer to ANNEX A.4.

5.6 Conducted Emission

5.6.1 Limit

FCC §15.207

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

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

5.6.2 Test Setup

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

5.6.3 Test Procedure

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

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

5.6.4 Test Result

Please refer to ANNEX A.5.

5.7 Radiated Spurious Emission

5.7.1 Limit

FCC §15.209&15.247(d)

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

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

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

Note:

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

5.7.2 Test Setup

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

5.7.3 Test Procedure

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

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

General Procedure for conducted measurements in restricted bands

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

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

where:

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

EIRP = equivalent isotropic radiated power in dBm

D = specified measurement distance in meters.

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

Quasi-Peak measurement procedure

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

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

Peak power measurement procedure

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

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

longer for low duty cycle applications).

Table 1—RBW as a function of frequency

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

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

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

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

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

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

Determining the applicable transmit antenna gain

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

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

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

Radiated spurious emission test

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

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

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

The power of the EUT transmitting frequency should be ignored.

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

Use the following spectrum analyzer settings:

Span = wide enough to fully capture the emission being measured

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

VBW $\geq$ RBW

Sweep = auto

Detector function = peak

Trace = max hold

5.7.4 Test Result

Please refer to ANNEX A.6.

5.8 Band Edge (Restricted-band band-edge)

5.8.1 Limit

FCC §15.209&15.247(d)

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

5.8.2 Test Setup

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

5.8.3 Test Procedure

The following procedures may be used to determine the average field strength or power of an unwanted emission that is within 2 MHz of the authorized band-edge. Use the procedure described in 11.12.3.2.2 when using an average detector and the EUT can be configured to transmit continuously (i.e., $D \geq 98\%$). Use the procedure described in 11.12.3.2.3 when using an average detector and the EUT cannot be configured to transmit continuously but the duty cycle is constant (i.e., duty cycle variations are less than $\pm 2\%$). Use the procedure described in 11.12.3.2.4 when using an average detector for those cases where the EUT cannot be configured to transmit continuously and the duty cycle is not constant (duty cycle variations equal or exceed 2%).

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

Use the following spectrum analyzer settings:

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

RBW = 100 kHz.

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

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

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

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

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

Sweep time = auto.

Perform a trace average of at least 100 traces.

Compute the power by integrating the spectrum over 1 MHz using the analyzer's band-power

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

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

RBW = 100 kHz.

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

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

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

Detector = Power averaging (rms), if $[\text{span} / (\# \text{ of points in sweep})] \leq (\text{RBW} / 2)$. Satisfying this condition might require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak.

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

- 1) As an alternative, the detector and averaging type may be set for linear voltage averaging
- 2) Some instruments require linear display mode to use linear voltage averaging. Log or dB averaging shall not be used.

Sweep time = auto.

Perform a trace average of at least 100 traces.

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

A correction factor shall be added to the measurement results prior to comparing with the emission limit to compute the emission level that would have been measured had the test been performed at 100% duty cycle. The correction factor is computed as follows:

1) If power averaging (rms) mode was used in step f), then the applicable correction factor is $[10 \log (1 / D)]$, where D is the duty cycle.

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

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

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

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

5.8.4 Test Result

Please refer to ANNEX A.7.

5.9 Power Spectral density (PSD)

5.9.1 Limit

FCC §15.247(e)

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

5.9.2 Test Setup

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

5.9.3 Test Procedure

Set analyzer center frequency to DTS channel center frequency.

Set the span to 1.5 times the DTS bandwidth.

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

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

Detector = peak.

Sweep time = auto couple.

Trace mode = max hold.

Allow trace to fully stabilize.

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

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

5.9.4 Test Result

Please refer to ANNEX A.8.

ANNEX A TEST RESULT

A.1 Output Power

Duty Cycle

Test Mode	On Time (ms)	On+Off time (ms)	Duty Cycle	Duty Factor
802.11b	32.93	32.98	99.85%	0.01
802.11g	5.476	5.52	99.20%	0.03
802.11n-20 MHz	5.075	5.115	99.22%	0.03
802.11n-40 MHz	2.463	2.506	98.28%	0.08

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

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	21.58	143.88	30	1000	Pass
Middle	21.38	137.34			Pass
High	21.02	126.47			Pass

802.11g Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	22.93	196.34	30	1000	Pass
Middle	22.72	187.07			Pass
High	22.66	184.50			Pass

802.11n-20 MHz Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	22.76	188.80	30	1000	Pass
Middle	22.76	188.80			Pass
High	22.45	175.79			Pass

802.11n-40 MHz Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	22.80	190.55	30	1000	Pass
Middle	22.69	185.78			Pass
High	22.85	192.75			Pass

Average Power Test Data

802.11b Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	14.80	30.20	30	1000	Pass
Middle	14.73	29.72			Pass
High	14.36	27.29			Pass

802.11g Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	14.90	30.90	30	1000	Pass
Middle	14.54	28.44			Pass
High	14.45	27.86			Pass

802.11n-20 MHz Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	14.75	29.85	30	1000	Pass
Middle	14.51	28.25			Pass
High	14.38	27.42			Pass

802.11n-40 MHz Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	14.73	29.72	30	1000	Pass
Middle	14.58	28.71			Pass
High	14.58	28.71			Pass

A.2 Occupied Bandwidth

Test Data

802.11b Mode:

Channel	6 dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limits (kHz)
Low	9.000000	12.841000	≥500
Middle	9.000000	12.824000	≥500
High	9.000000	12.816000	≥500

802.11g Mode:

Channel	6 dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limits (kHz)
Low	16.600000	16.727000	≥500
Middle	16.600000	16.730000	≥500
High	16.600000	16.739000	≥500

802.11n-20MHz Mode:

Channel	6 dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limits (kHz)
Low	17.400000	17.458000	≥500
Middle	17.500000	17.463000	≥500
High	17.400000	17.457000	≥500

802.11n-40MHz Mode:

Channel	6 dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limits (kHz)
Low	36.000000	35.906000	≥500
Middle	36.000000	35.873000	≥500
High	35.800000	35.851000	≥500

Test Plots

6 dB Bandwidth

802.11b LOW CHANNEL



802.11b MIDDLE CHANNEL



802.11b HIGH CHANNEL



802.11g LOW CHANNEL



802.11g MIDDLE CHANNEL



802.11g HIGH CHANNEL



802.11n-20 MHz LOW CHANNEL



802.11n-20 MHz MIDDLE CHANNEL



802.11n-20 MHz HIGH CHANNEL



802.11n-40 MHz LOW CHANNEL



802.11n-40 MHz MIDDLE CHANNEL



802.11n-40 MHz HIGH CHANNEL



99% Bandwidth

802.11b LOW CHANNEL



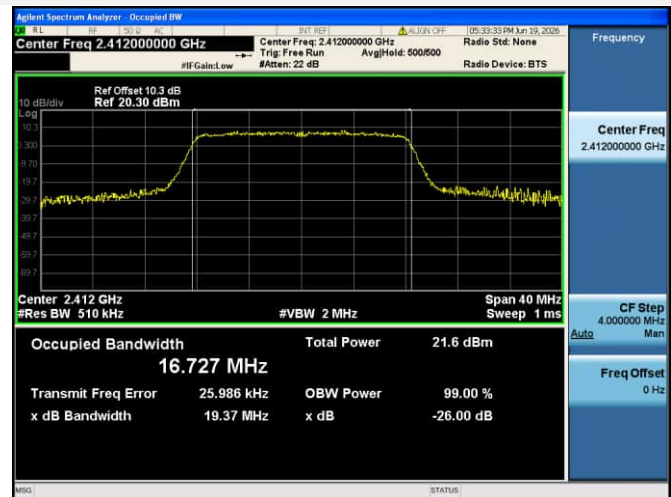
802.11b MIDDLE CHANNEL



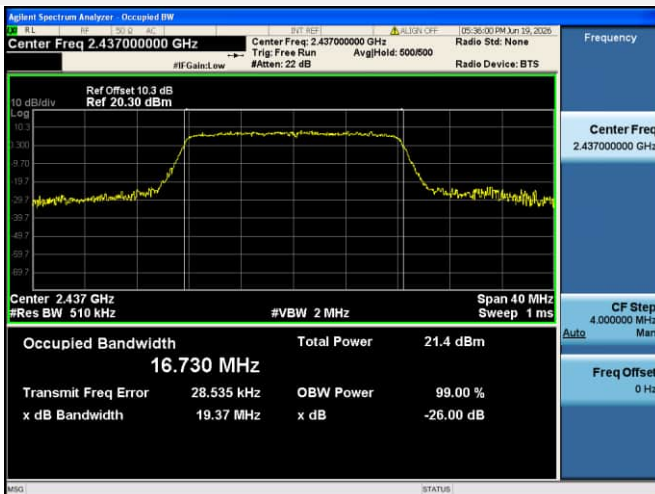
802.11b HIGH CHANNEL



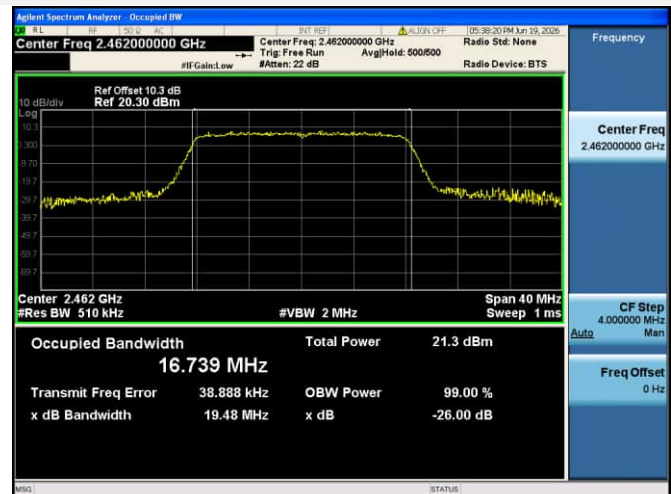
802.11g LOW CHANNEL



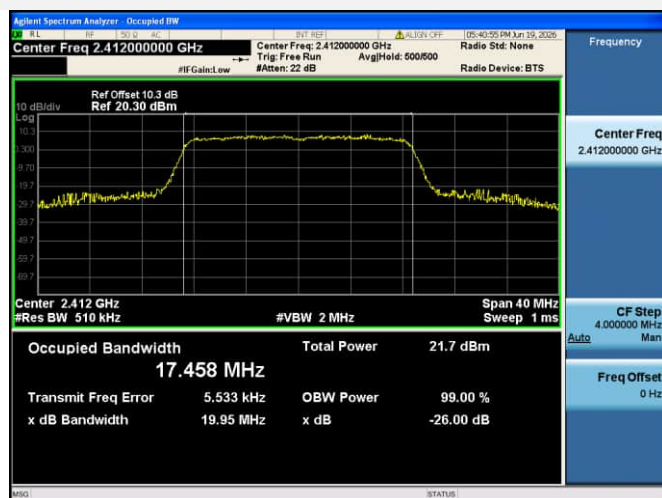
802.11g MIDDLE CHANNEL



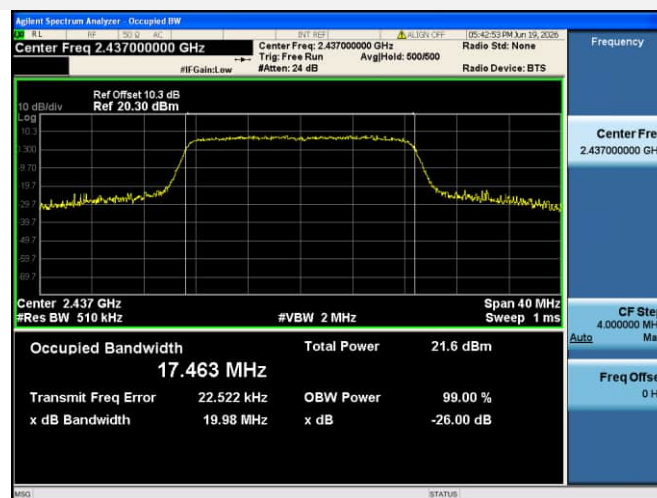
802.11g HIGH CHANNEL



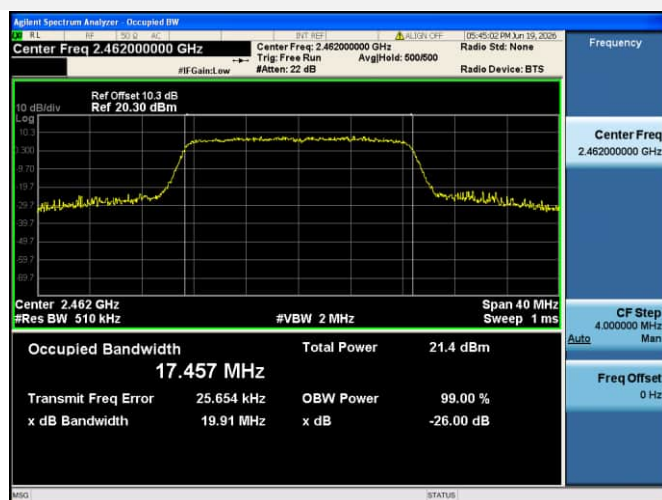
802.11n-20 MHz LOW CHANNEL



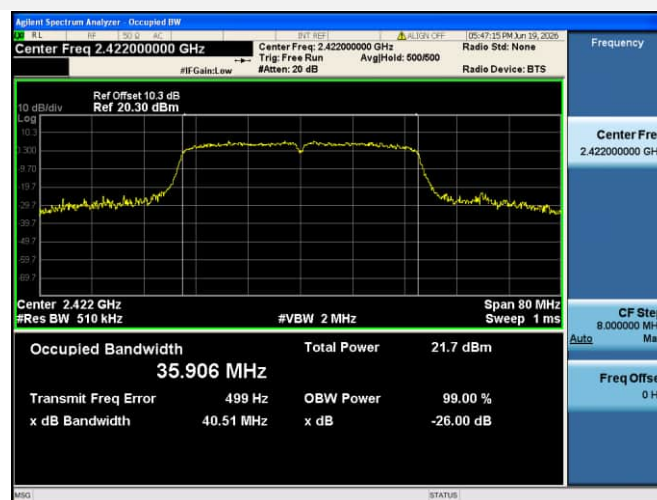
802.11n-20 MHz MIDDLE CHANNEL



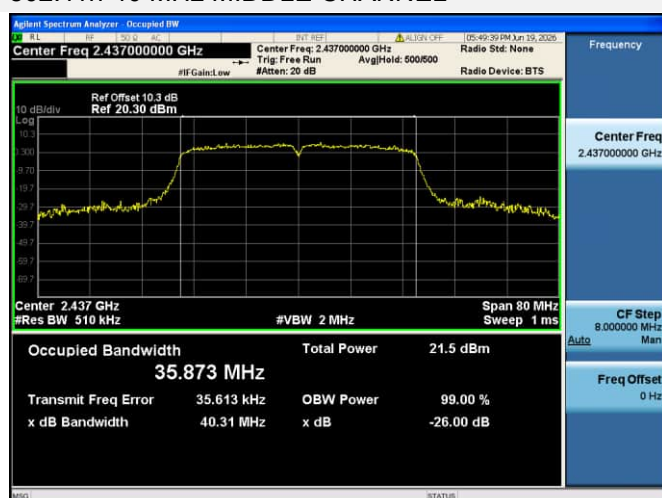
802.11n-20 MHz HIGH CHANNEL



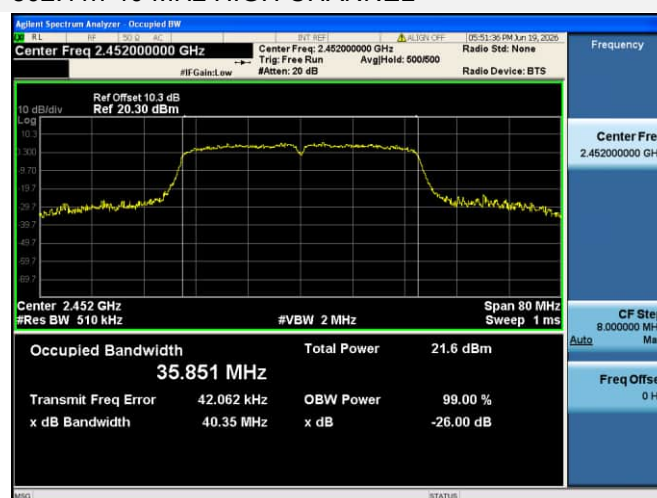
802.11n-40 MHz LOW CHANNEL



802.11n-40 MHz MIDDLE CHANNEL



802.11n-40 MHz HIGH CHANNEL



A.3 Conducted Spurious Emissions

Test Data

802.11b Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-39.32	6.91	-13.10	Pass
Middle	-37.66	6.49	-13.51	Pass
High	-40.76	6.14	-13.86	Pass

802.11g Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-36.70	4.02	-15.98	Pass
Middle	-39.96	3.84	-16.16	Pass
High	-37.07	3.10	-16.90	Pass

802.11n-20MHz Mode:

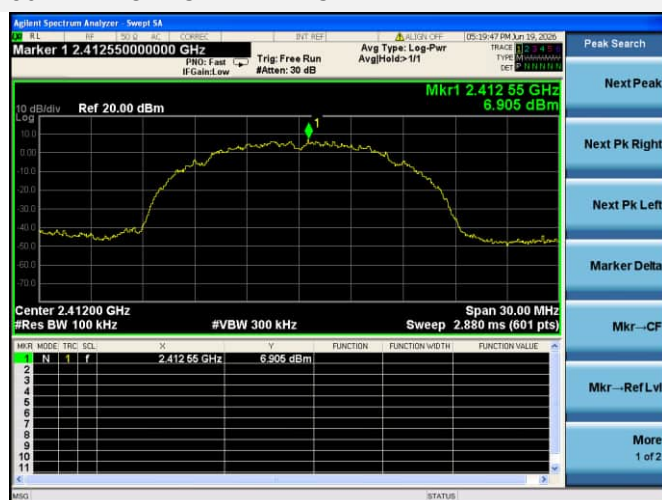
Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-40.00	3.59	-16.41	Pass
Middle	-37.05	2.95	-17.05	Pass
High	-38.21	3.36	-16.64	Pass

802.11n-40MHz Mode:

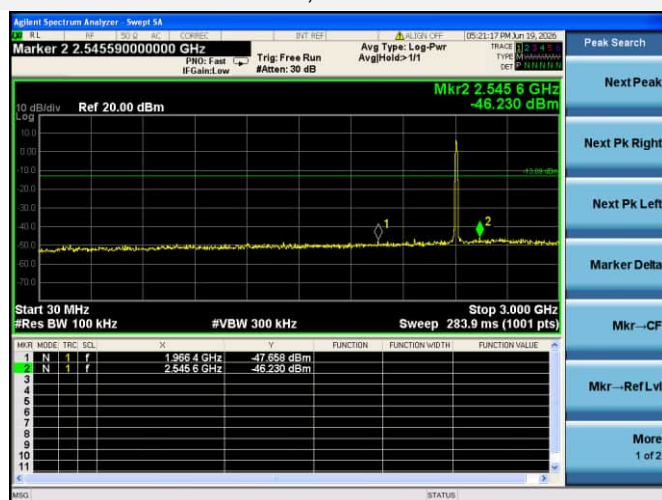
Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-37.50	1.12	-18.88	Pass
Middle	-37.30	0.43	-19.57	Pass
High	-37.92	1.07	-18.93	Pass

Test Plots

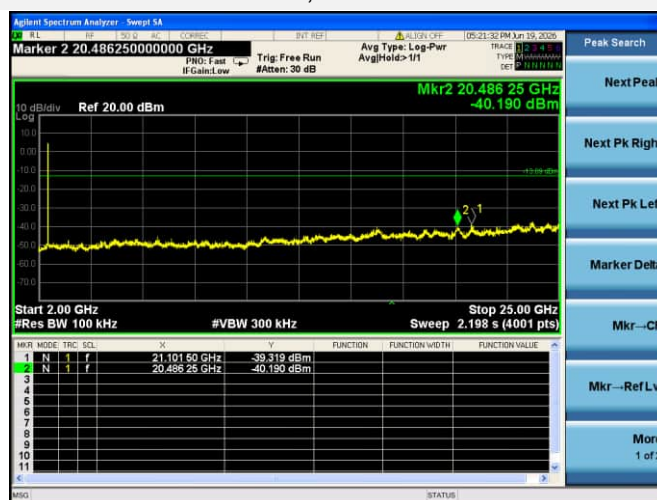
802.11b LOW CHANNEL CARRIER LEVEL



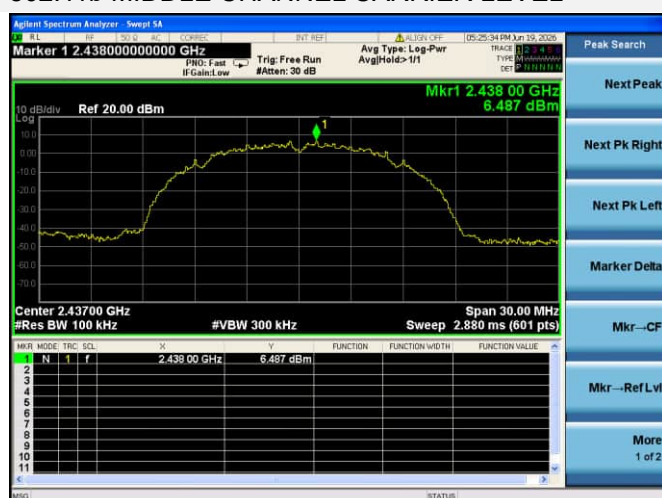
802.11b LOW CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



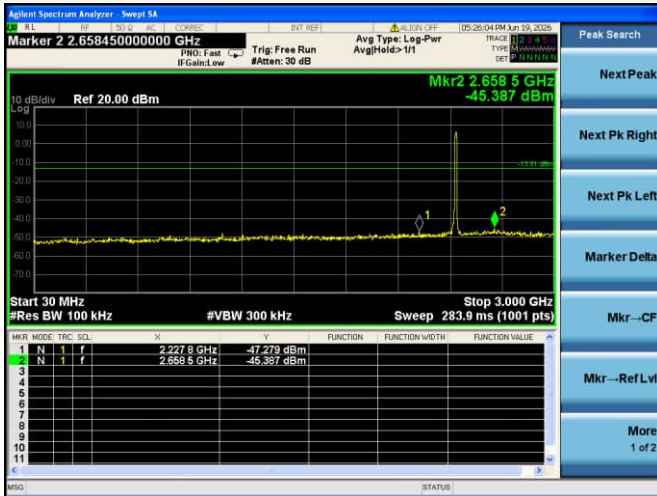
802.11b LOW CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



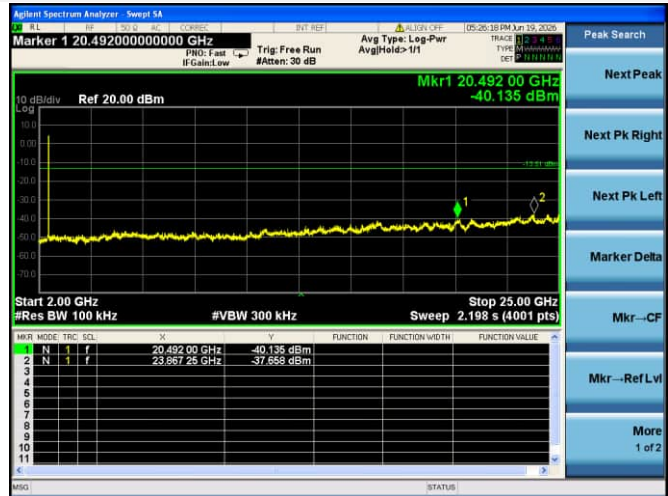
802.11b MIDDLE CHANNEL CARRIER LEVEL



802.11b MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



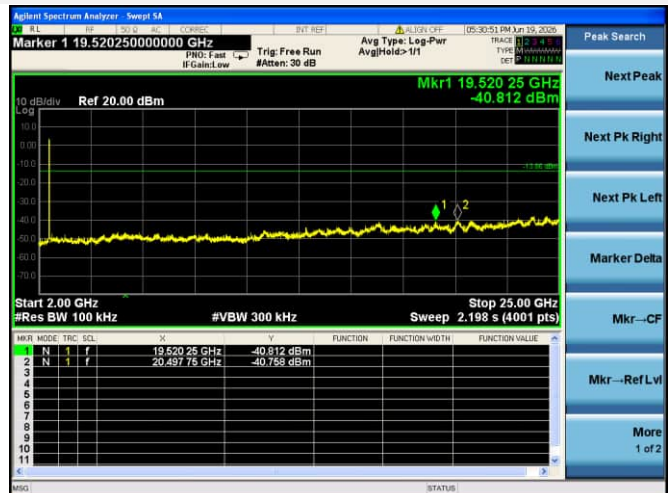
802.11b MIDDLE CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



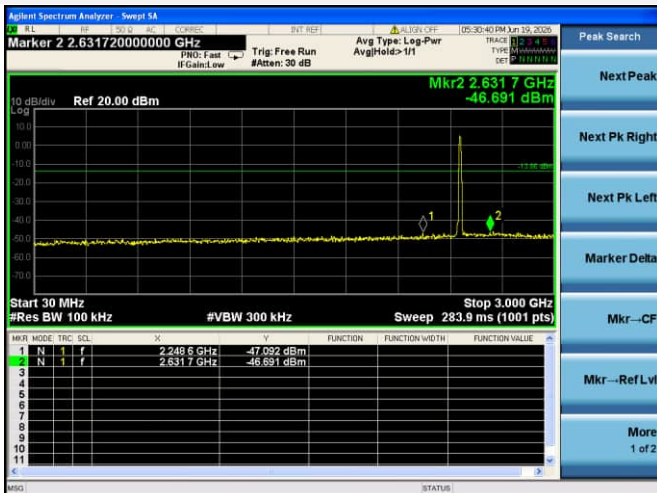
802.11b HIGH CHANNEL CARRIER LEVEL



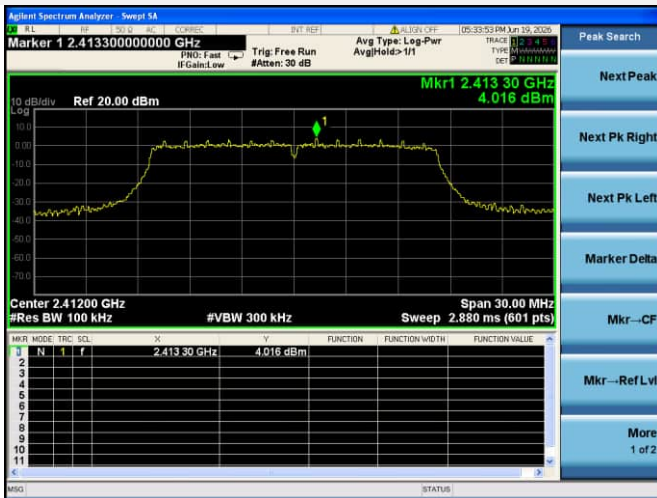
802.11b HIGH CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



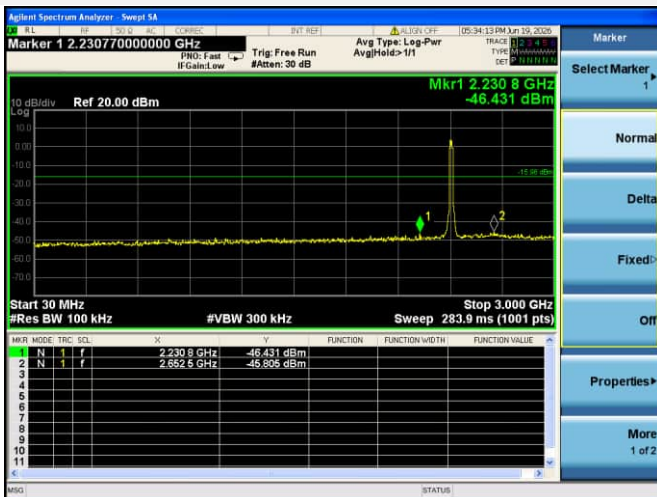
802.11b HIGH CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



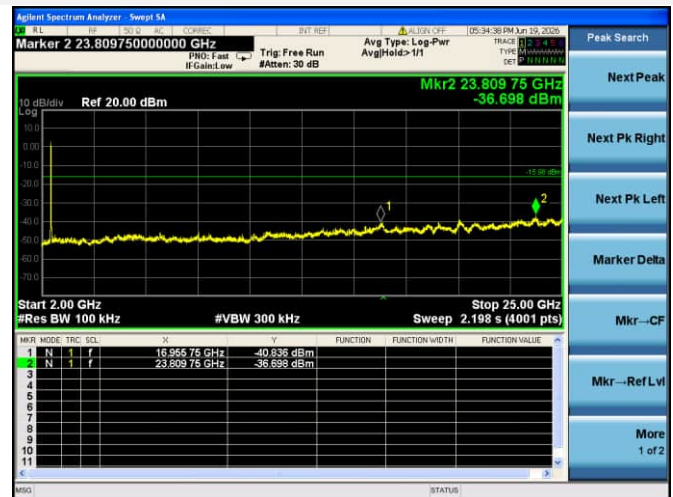
802.11g LOW CHANNEL CARRIER LEVEL



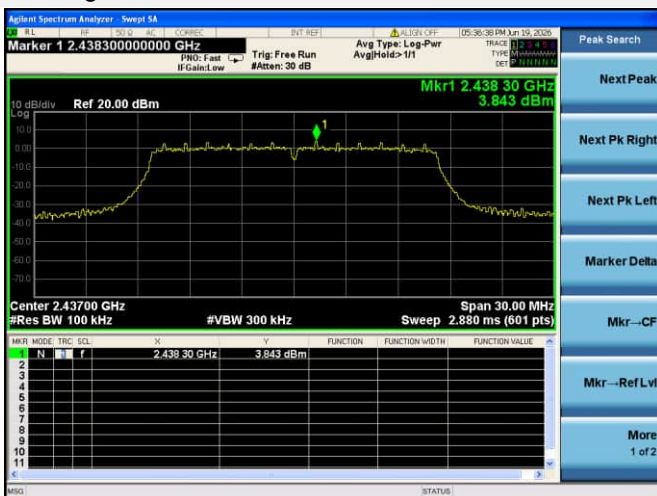
802.11g LOW CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



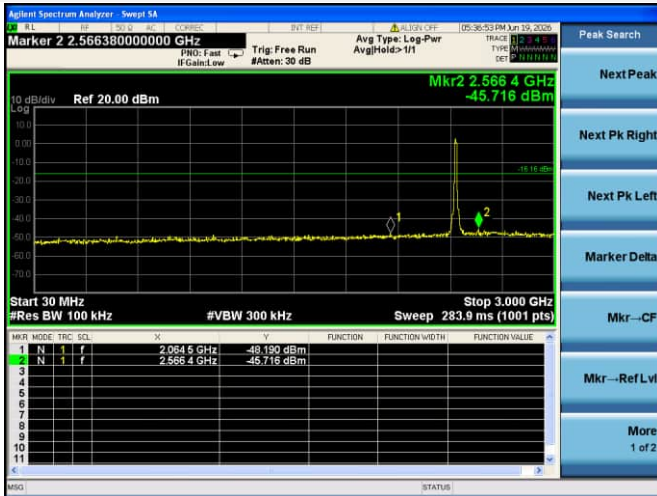
802.11g LOW CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



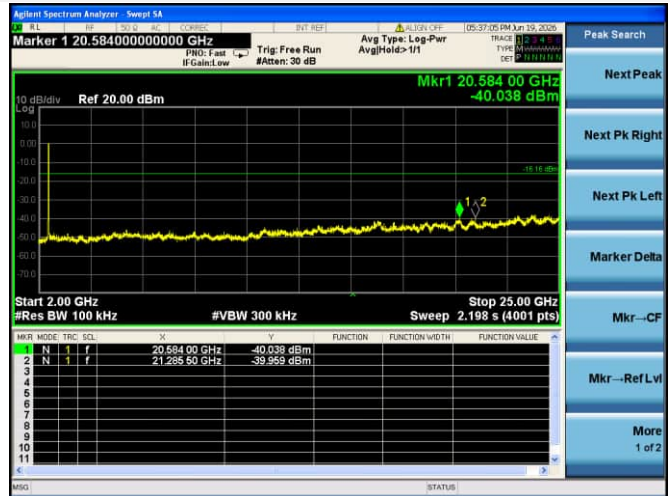
802.11g MIDDLE CHANNEL CARRIER LEVEL



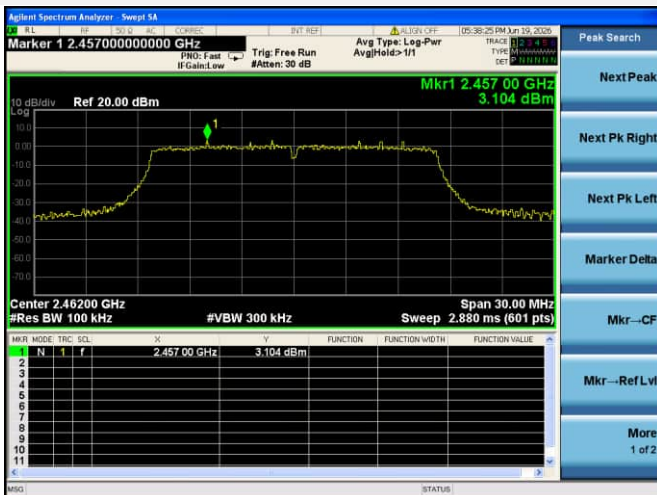
802.11g MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



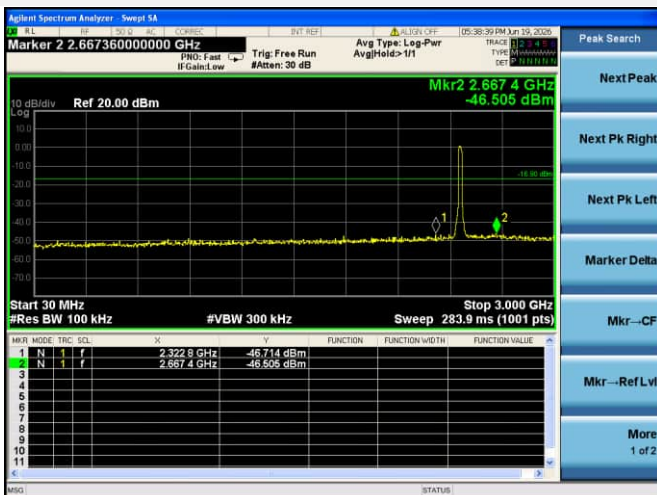
802.11g MIDDLE CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



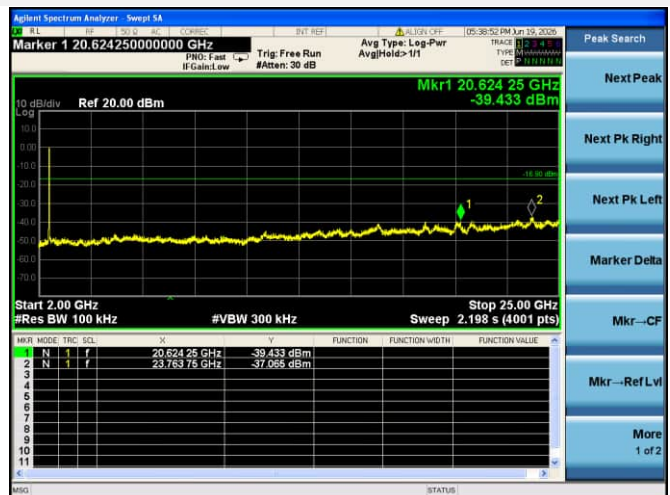
802.11g HIGH CHANNEL CARRIER LEVEL



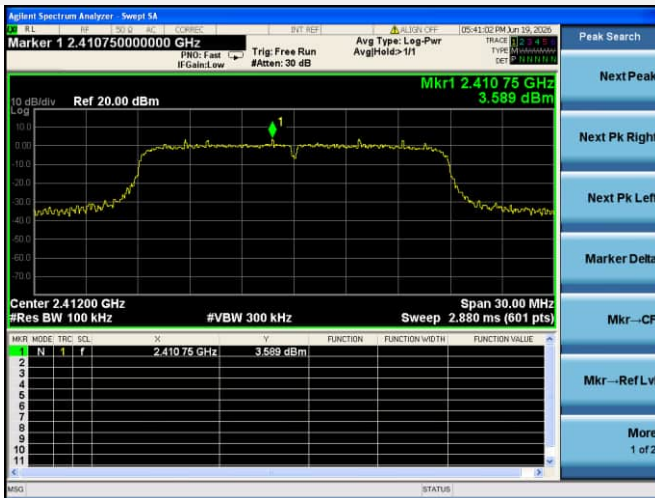
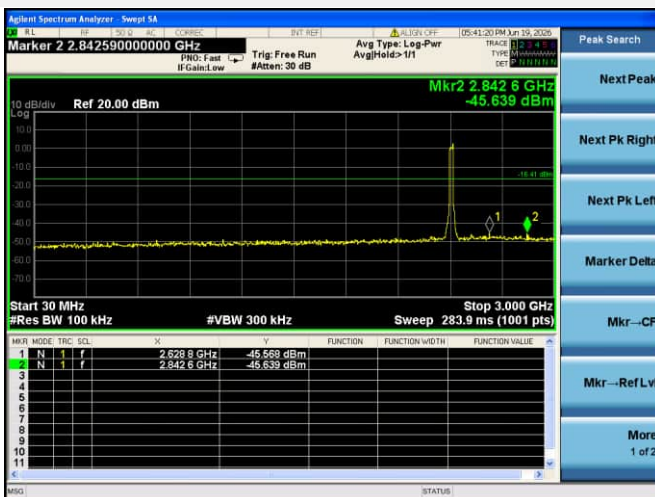
802.11g HIGH CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



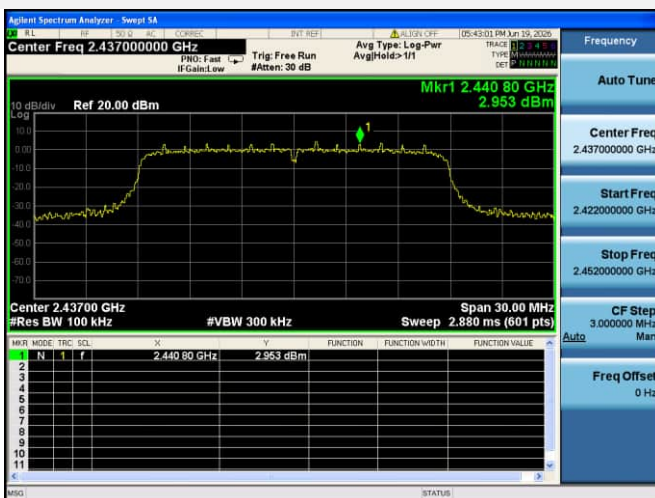
802.11g HIGH CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



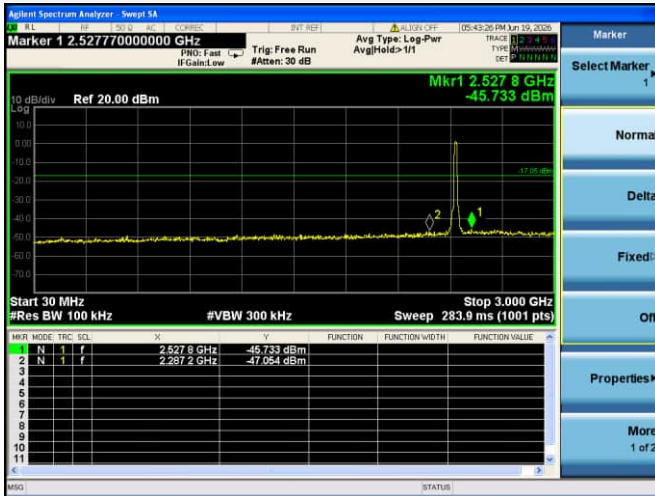
802.11n-20 MHz LOW CHANNEL CARRIER LEVEL

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

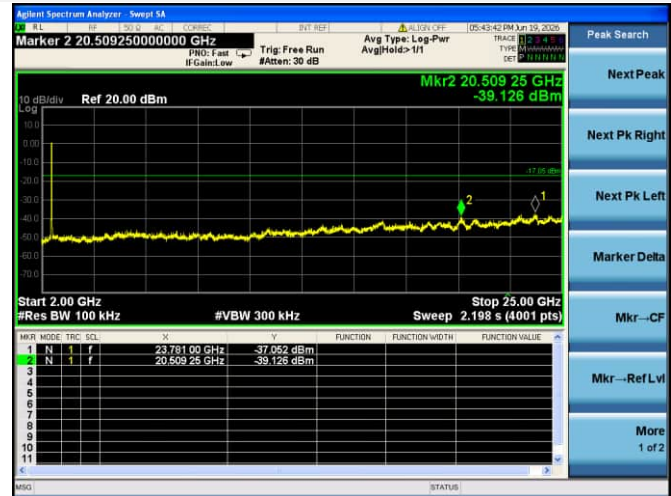
802.11n-20 MHz MIDDLE CHANNEL CARRIER LEVEL



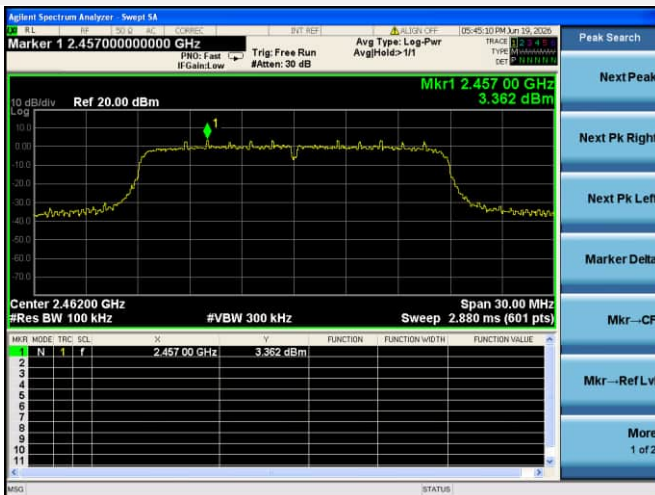
802.11n-20 MHz MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



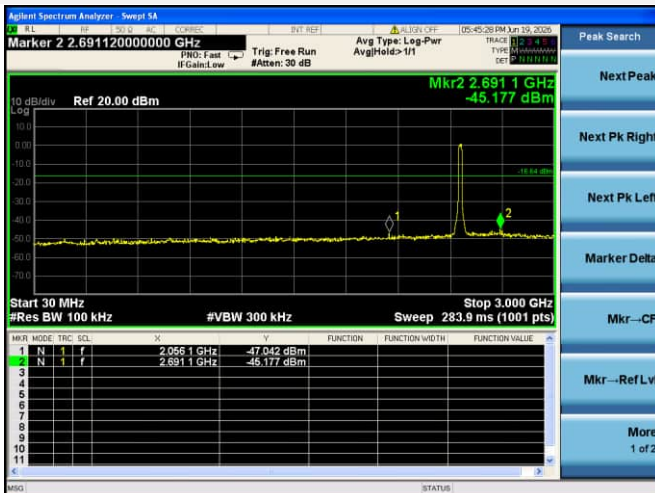
802.11n-20 MHz MIDDLE CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



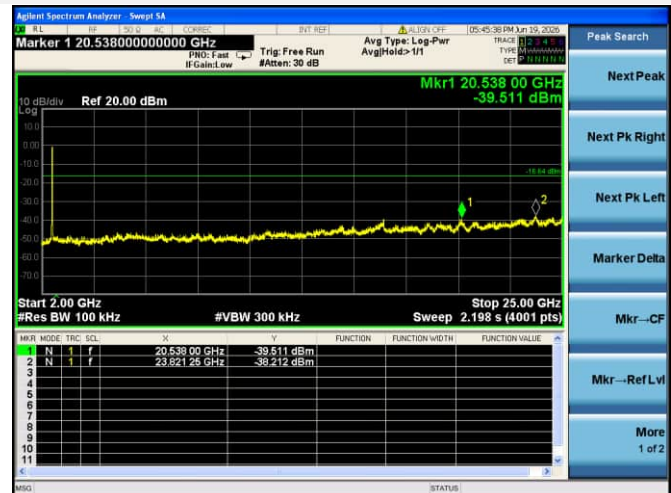
802.11n-20 MHz HIGH CHANNEL CARRIER LEVEL



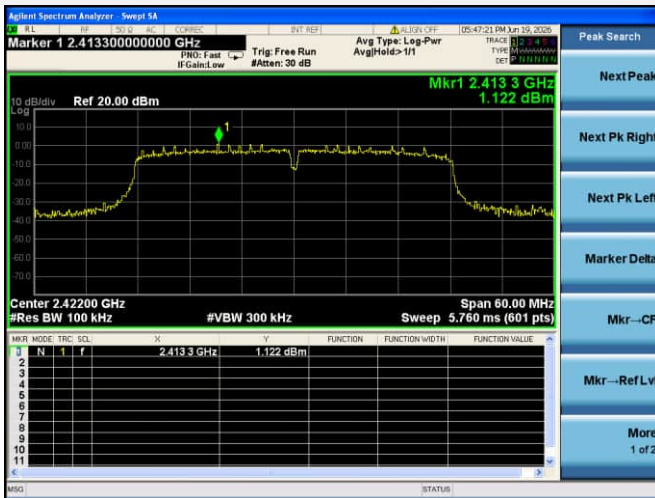
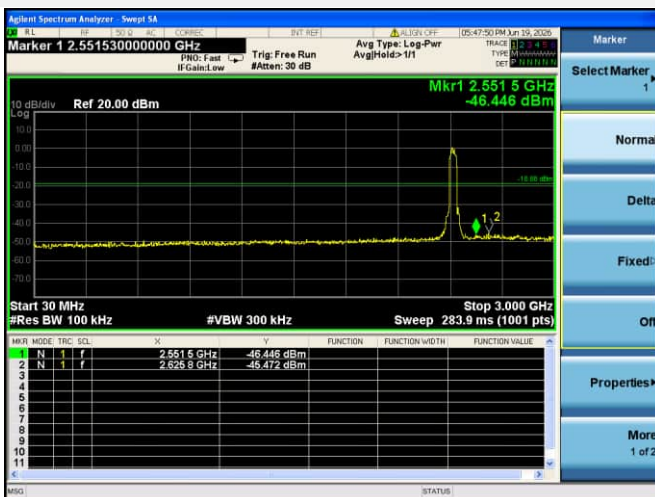
802.11n-20 MHz HIGH CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



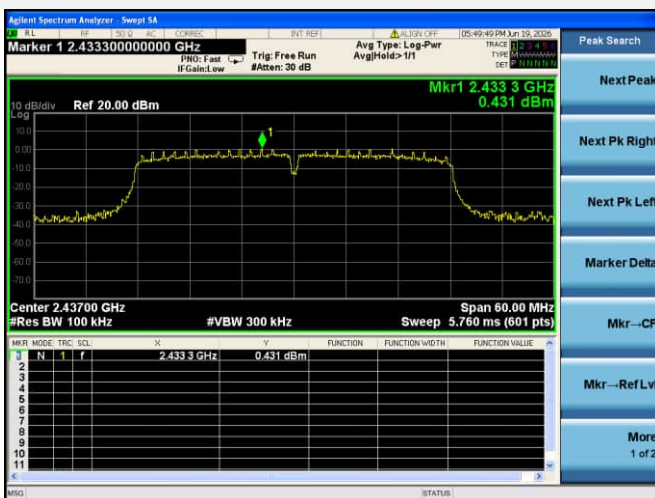
802.11n-20 MHz HIGH CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



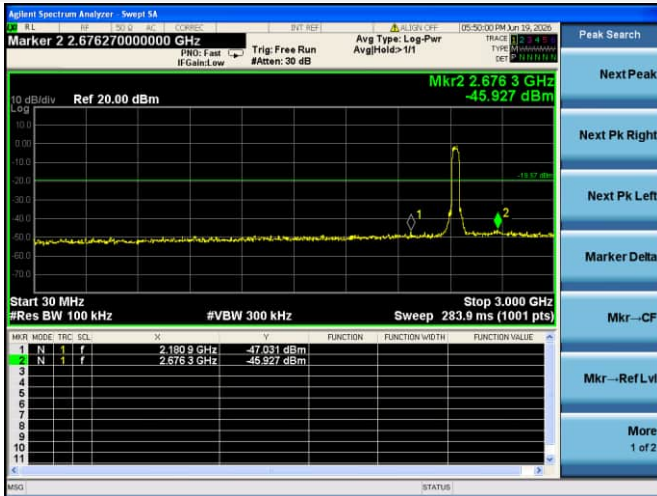
802.11n-40 MHz LOW CHANNEL CARRIER LEVEL

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

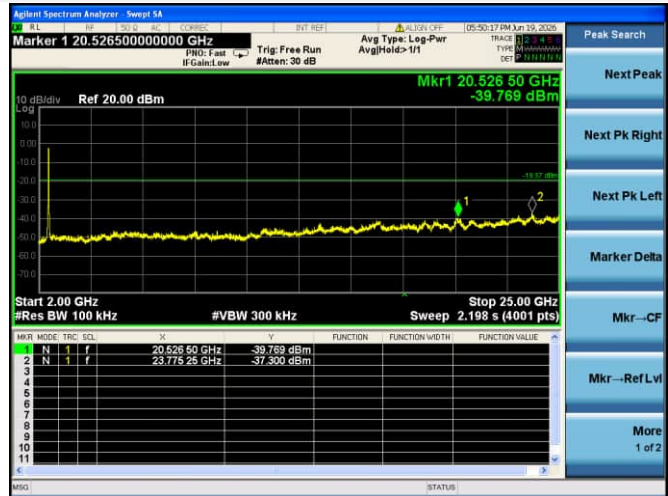
802.11n-40 MHz MIDDLE CHANNEL CARRIER LEVEL



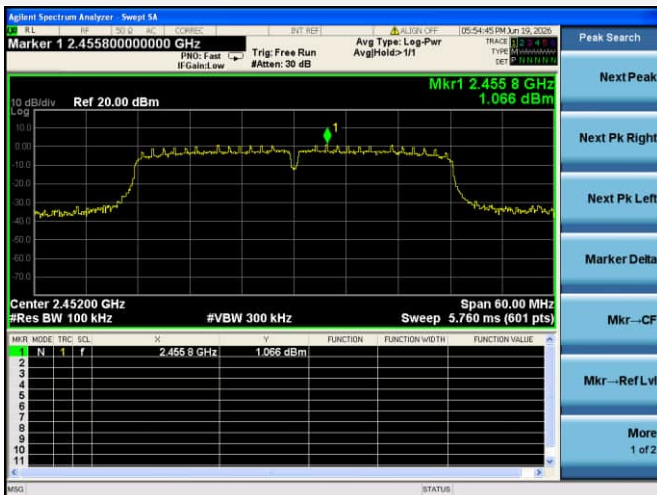
802.11n-40 MHz MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



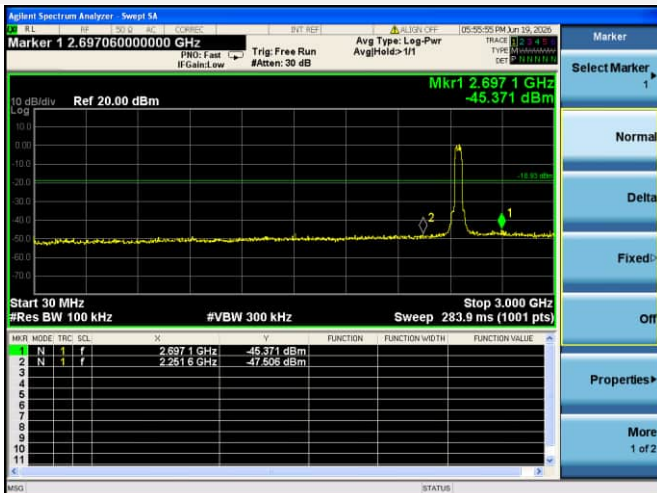
802.11n-40 MHz MIDDLE CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



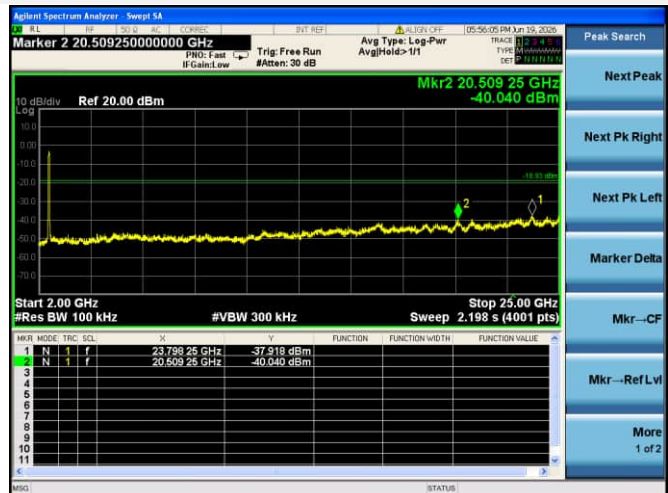
802.11n-40 MHz HIGH CHANNEL CARRIER LEVEL



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



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



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

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

Test Data

802.11b Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-43.29	6.91	-13.10	Pass
High Channel	-48.49	6.14	-13.86	Pass

802.11g Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-32.73	4.02	-15.98	Pass
High Channel	-40.08	3.10	-16.90	Pass

802.11n-20 MHz Mode:

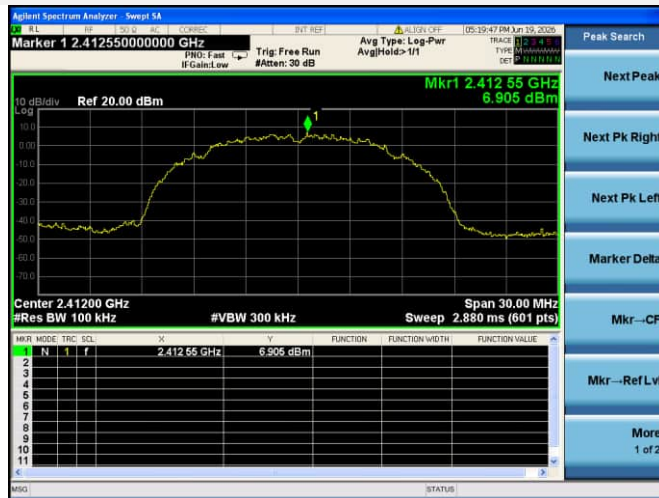
Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-32.13	3.59	-16.41	Pass
High Channel	-41.30	3.36	-16.64	Pass

802.11n-40 MHz Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-32.91	1.12	-18.88	Pass
High Channel	-34.62	1.07	-18.93	Pass

Test Plots

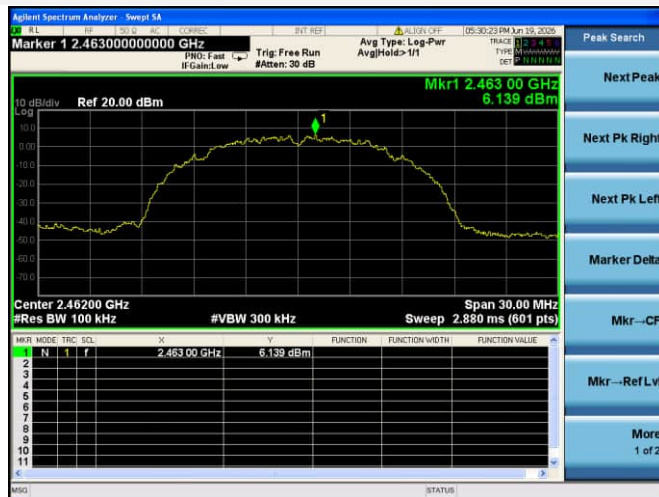
802.11b LOW CHANNEL, CARRIER LEVEL



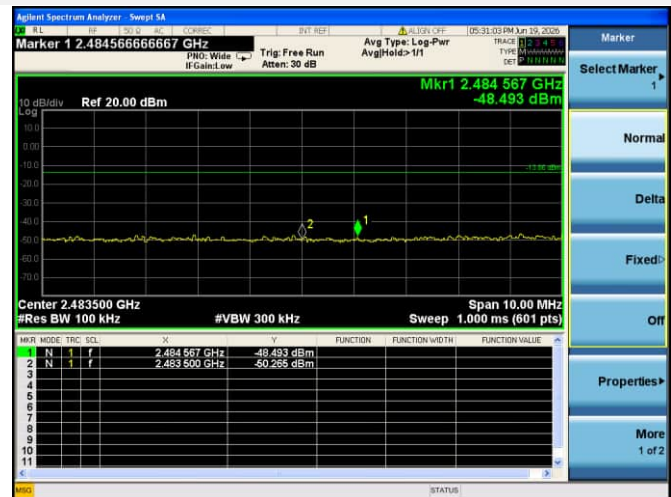
802.11b LOW CHANNEL, BAND EDGE



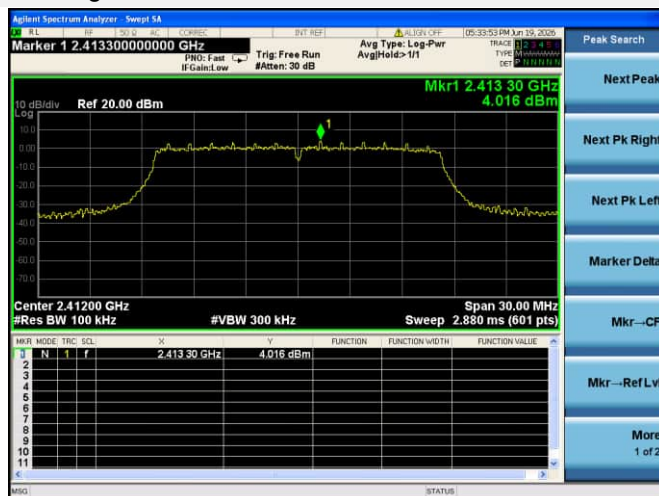
802.11b HIGH CHANNEL, CARRIER LEVEL



802.11b HIGH CHANNEL, BAND EDGE



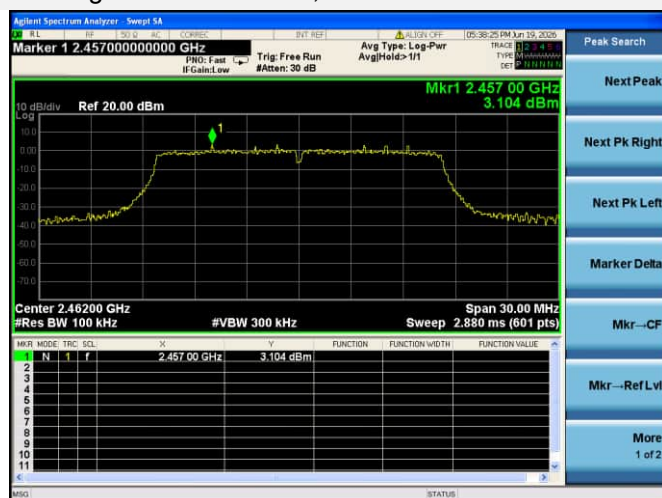
802.11g LOW CHANNEL, CARRIER LEVEL



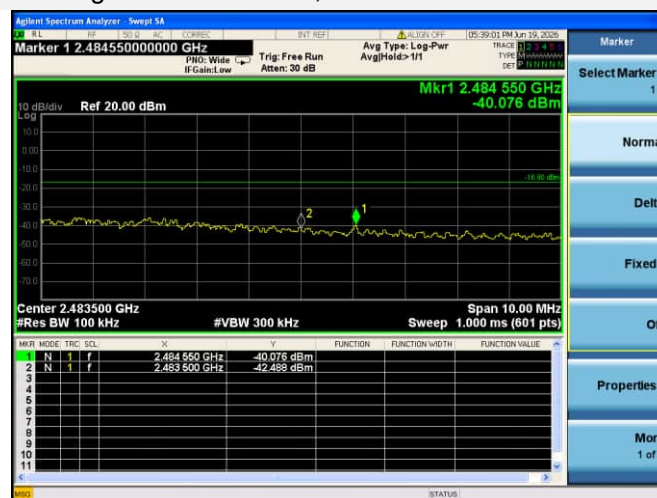
802.11g LOW CHANNEL, BAND EDGE



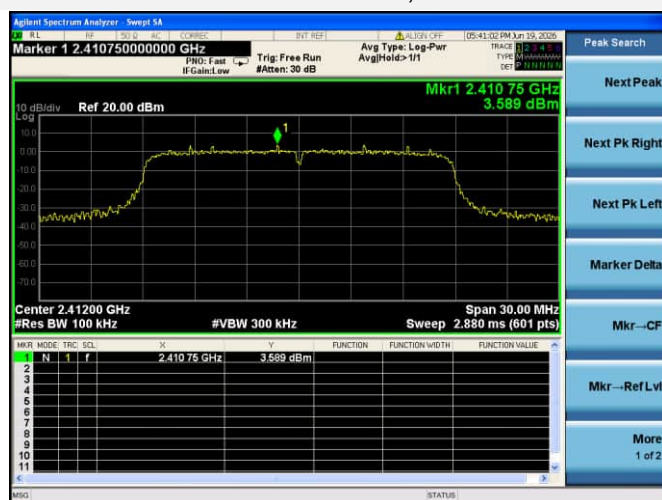
802.11g HIGH CHANNEL, CARRIER LEVEL



802.11g HIGH CHANNEL, BAND EDGE



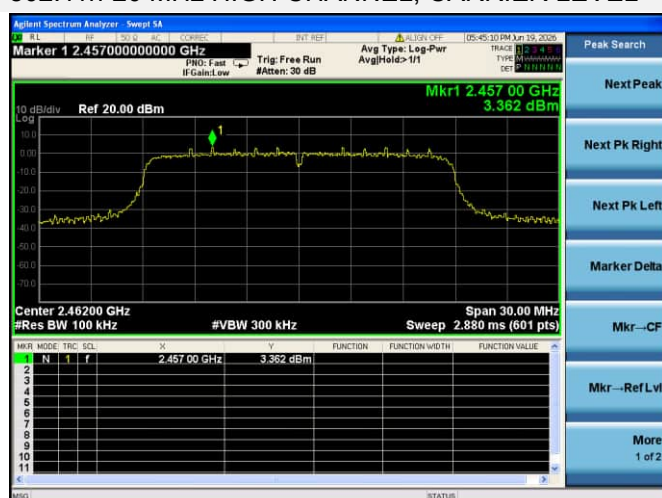
802.11n-20 MHz LOW CHANNEL, CARRIER LEVEL



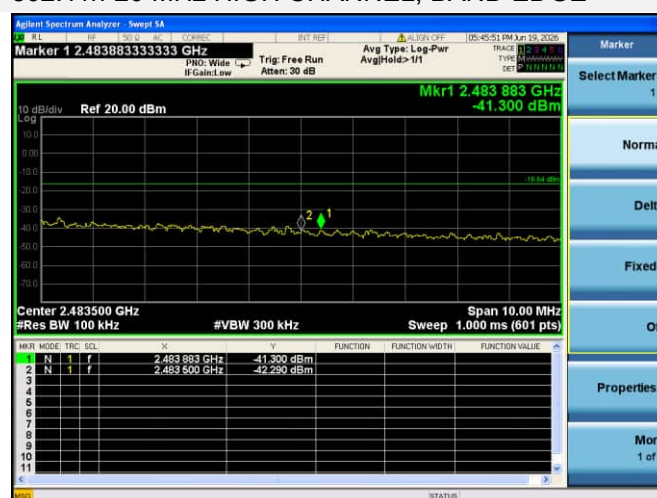
802.11n-20 MHz LOW CHANNEL, BAND EDGE



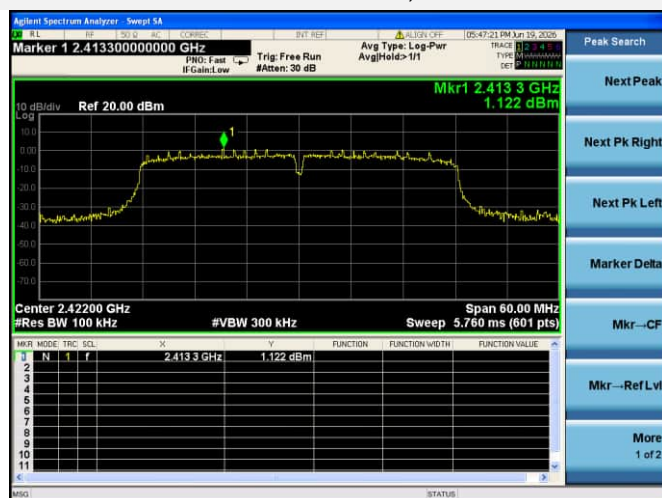
802.11n-20 MHz HIGH CHANNEL, CARRIER LEVEL



802.11n-20 MHz HIGH CHANNEL, BAND EDGE



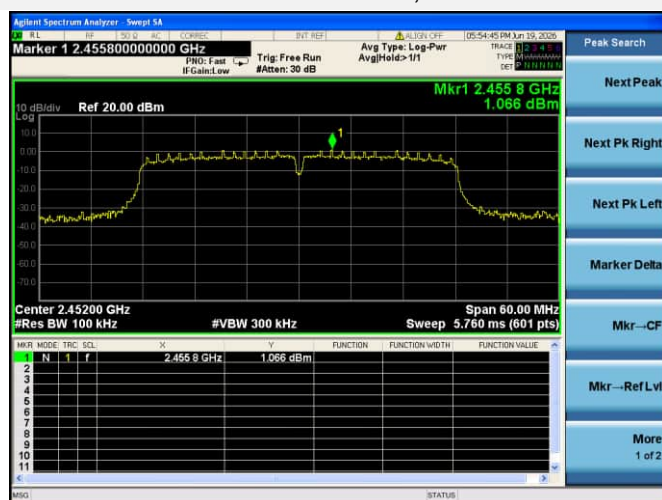
802.11n-40 MHz LOW CHANNEL, CARRIER LEVEL



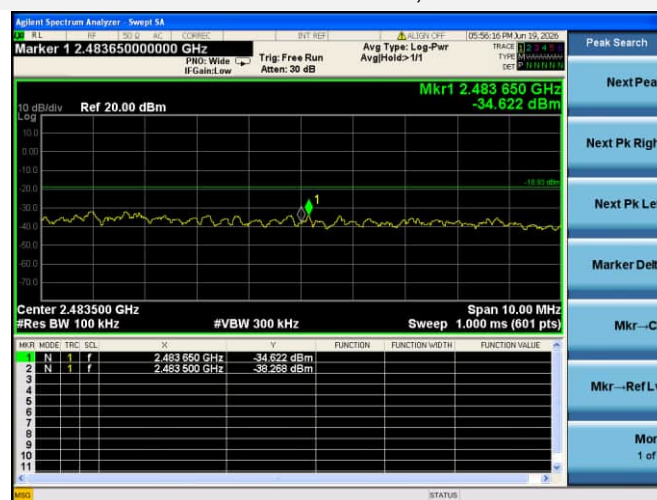
802.11n-40 MHz LOW CHANNEL, BAND EDGE



802.11n-40 MHz HIGH CHANNEL, CARRIER LEVEL



802.11n-40 MHz HIGH CHANNEL, BAND EDGE



A.5 Conducted Emissions

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

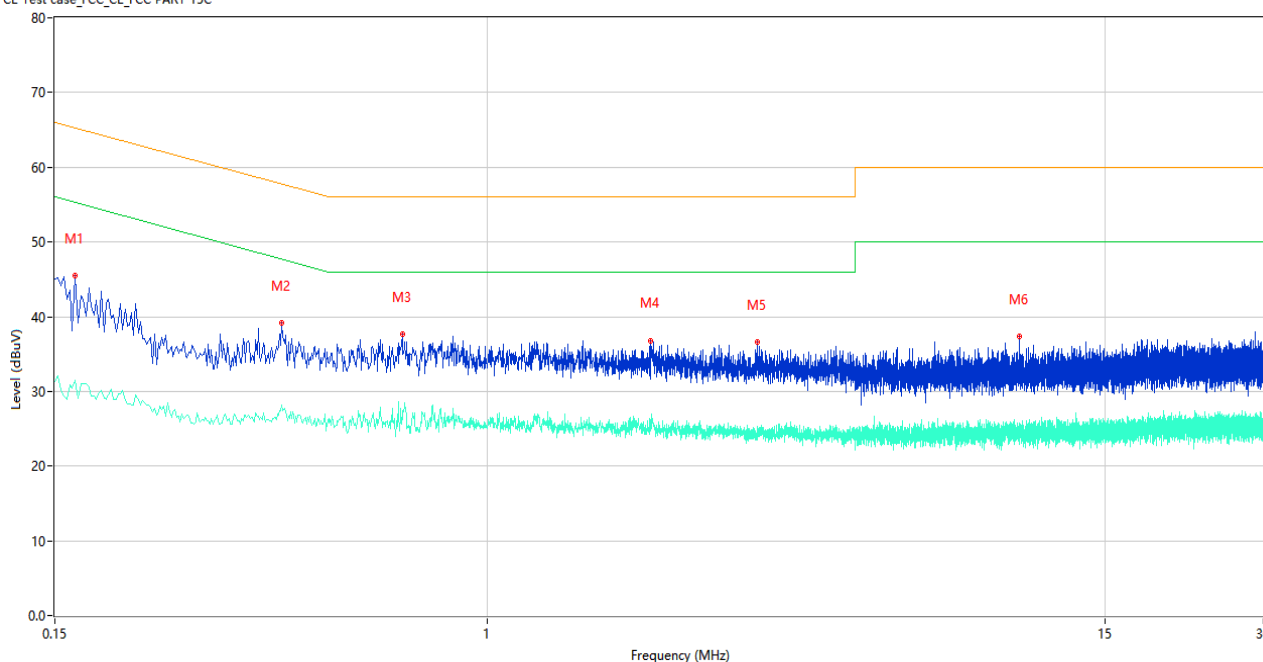
Note ²: Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 60 Hz and 240 VAC, 50 Hz) for which the device is capable of operation. So, The configuration 120 VAC, 60 Hz and 240 VAC, 50 Hz were tested respectively, but only the worst configuration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

Note ³: Results (dBuV) = Original reading level of Spectrum Analyzer (dBuV) + Factor (dB)

Test Data and Plots

PHASE L

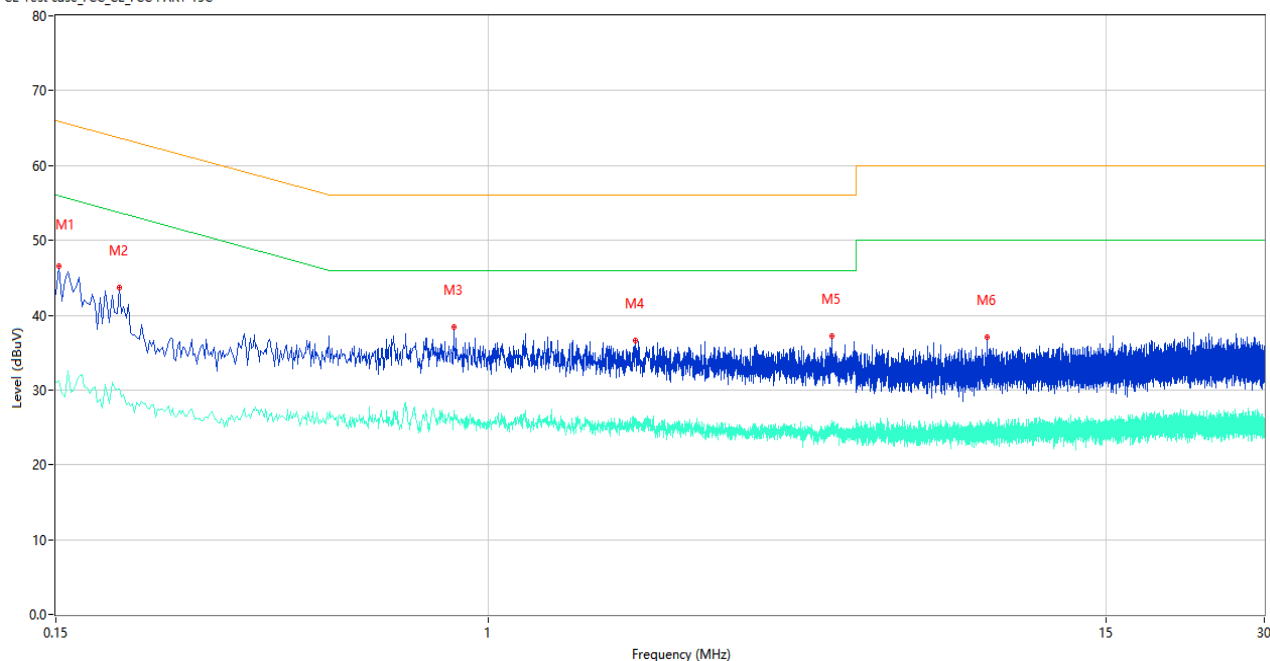
CE Test case_FCC_CE_FCC PART 15C



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.164	45.43	9.85	65.26	19.83	Peak	L	Pass
1**	0.164	31.46	9.85	55.26	23.80	AV	L	Pass
2	0.406	39.16	10.55	57.73	18.57	Peak	L	Pass
2**	0.406	28.10	10.55	47.73	19.63	AV	L	Pass
3	0.688	37.69	10.61	56.00	18.31	Peak	L	Pass
3**	0.688	26.50	10.61	46.00	19.50	AV	L	Pass
4	2.040	36.82	10.50	56.00	19.18	Peak	L	Pass
4**	2.040	24.90	10.50	46.00	21.10	AV	L	Pass
5	3.266	36.61	10.21	56.00	19.39	Peak	L	Pass
5**	3.266	24.33	10.21	46.00	21.67	AV	L	Pass
6	10.276	37.33	10.55	60.00	22.67	Peak	L	Pass
6**	10.276	24.97	10.55	50.00	25.03	AV	L	Pass

PHASE N

CE Test case_FCC_CE_FCC PART 15C



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.152	46.49	9.86	65.89	19.40	Peak	N	Pass
1**	0.152	31.21	9.86	55.89	24.68	AV	N	Pass
2	0.198	43.74	9.84	63.69	19.95	Peak	N	Pass
2**	0.198	30.21	9.84	53.69	23.48	AV	N	Pass
3	0.858	38.43	10.60	56.00	17.57	Peak	N	Pass
3**	0.858	27.25	10.60	46.00	18.75	AV	N	Pass
4	1.904	36.55	10.74	56.00	19.45	Peak	N	Pass
4**	1.904	26.17	10.74	46.00	19.83	AV	N	Pass
5	4.512	37.14	10.48	56.00	18.86	Peak	N	Pass
5**	4.512	25.38	10.48	46.00	20.62	AV	N	Pass
6	8.906	37.08	10.35	60.00	22.92	Peak	N	Pass
6**	8.906	23.96	10.35	50.00	26.04	AV	N	Pass

A.6 Radiated Emission

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

Note ²: For the test data above 1 GHz, According the ANSI C63.10-2020 + Cor. 1-2023 + C63.10a-2024 + Errata to C63.10a-2024, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

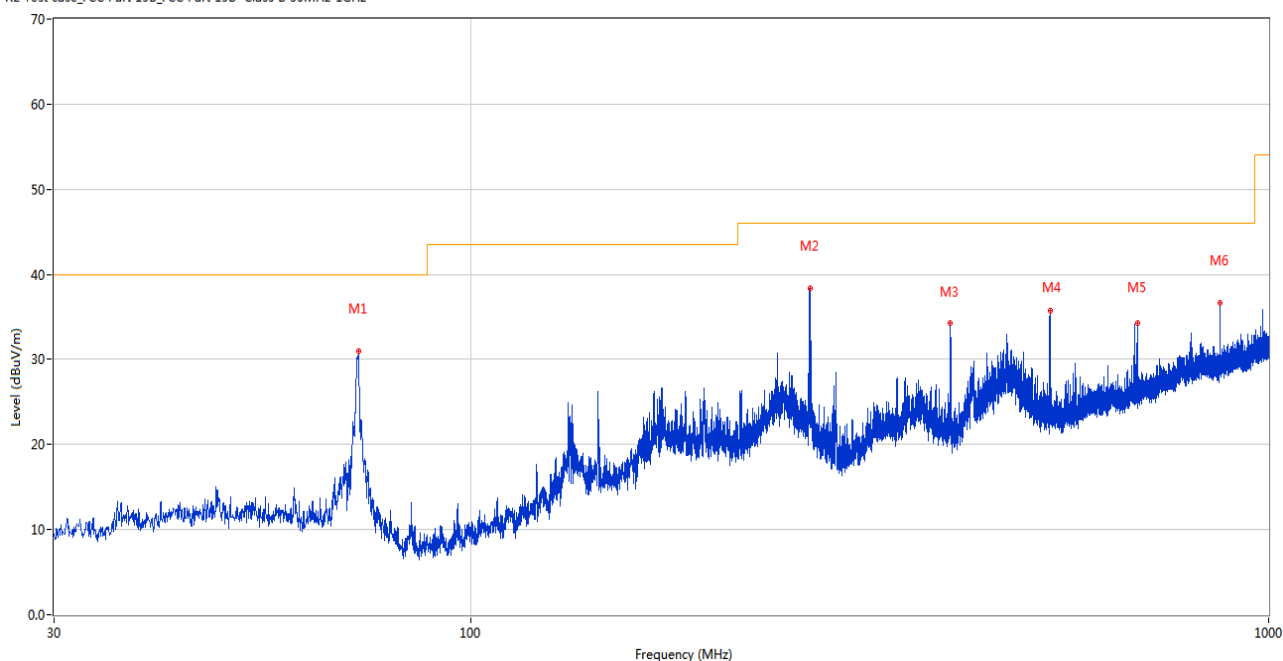
Note ³: The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.

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

Test Data and Plots

30 MHz to 1 GHz, ANT H

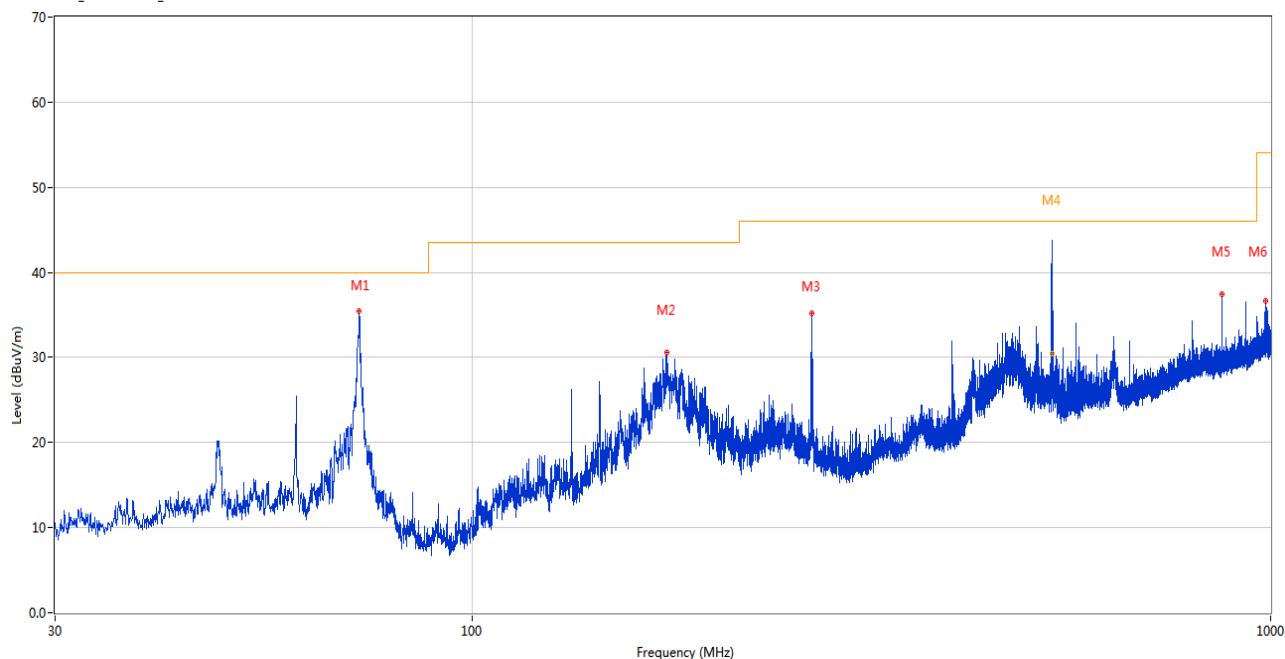
RE Test case_FCC Part 15B_FCC Part 15B Class B 30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	72.195	30.97	-27.25	40.0	9.03	Peak	162.00	200	Horizontal	Pass
2	265.807	38.35	-23.62	46.0	7.65	Peak	236.00	100	Horizontal	Pass
3	398.940	34.26	-19.12	46.0	11.74	Peak	114.00	100	Horizontal	Pass
4	532.751	35.70	-15.09	46.0	10.30	Peak	152.00	200	Horizontal	Pass
5	684.459	34.24	-11.61	46.0	11.76	Peak	255.00	100	Horizontal	Pass
6	867.983	36.62	-8.83	46.0	9.38	Peak	157.00	100	Horizontal	Pass

30 MHz to 1 GHz, ANT V

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



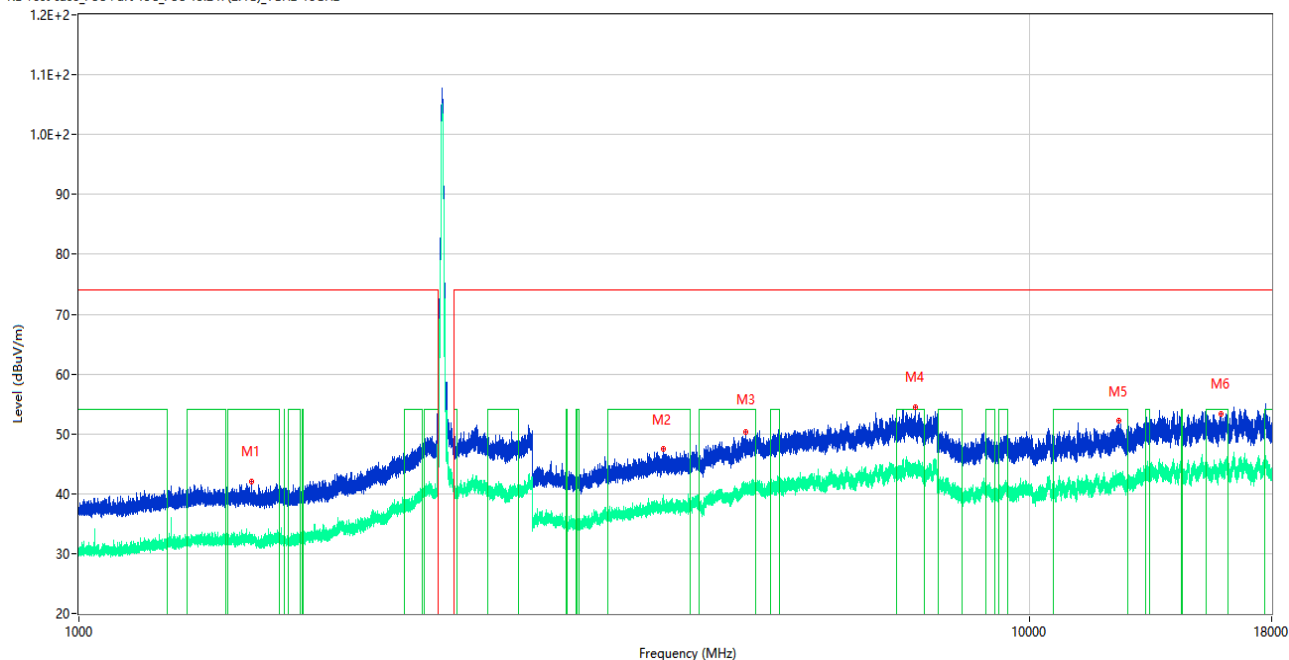
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	72.098	35.47	-27.24	40.0	4.53	Peak	252.00	100	Vertical	Pass
2	175.258	30.56	-24.66	43.5	12.94	Peak	133.00	100	Vertical	Pass
3	266.438	35.26	-23.62	46.0	10.74	Peak	317.00	200	Vertical	Pass
4	532.981	44.52	-15.07	46.0	1.48	Peak	145.00	112	Vertical	N/A
4*	532.981	30.46	-15.07	46.0	15.54	QP	145.00	112	Vertical	Pass
5	867.983	37.49	-8.83	46.0	8.51	Peak	183.00	200	Vertical	Pass
6	985.401	36.59	-6.66	54.0	17.41	Peak	205.00	100	Vertical	Pass

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

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

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

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



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1520.800	42.08	74.0	31.92	Peak	188.00	300	Horizontal	Pass
1**	1520.800	32.86	54.0	21.14	AV	188.00	300	Horizontal	Pass
2	4117.750	47.41	74.0	26.59	Peak	31.00	200	Horizontal	Pass
2**	4117.750	38.86	54.0	15.14	AV	31.00	200	Horizontal	Pass
3	5030.750	50.38	74.0	23.62	Peak	48.00	200	Horizontal	Pass
3**	5030.750	40.78	54.0	13.22	AV	48.00	200	Horizontal	Pass
4	7593.000	54.54	74.0	19.46	Peak	264.00	400	Horizontal	Pass
4**	7593.000	45.00	54.0	9.00	AV	264.00	400	Horizontal	Pass
5	12425.338	52.18	74.0	21.82	Peak	115.00	400	Horizontal	Pass
5**	12425.338	42.24	54.0	11.76	AV	115.00	400	Horizontal	Pass
6	15918.638	53.38	74.0	20.62	Peak	47.00	400	Horizontal	Pass
6**	15918.638	43.62	54.0	10.38	AV	47.00	400	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1521.698	42.29	74.0	31.72	Peak	323.00	400	Vertical	Pass
1**	1521.698	32.97	54.0	21.03	AV	323.00	400	Vertical	Pass
2	4119.259	47.69	74.0	26.32	Peak	218.00	100	Vertical	Pass
2**	4119.259	38.99	54.0	15.01	AV	218.00	100	Vertical	Pass
3	5030.218	50.64	74.0	23.36	Peak	86.00	200	Vertical	Pass
3**	5030.218	40.79	54.0	13.21	AV	86.00	200	Vertical	Pass
4	7593.815	54.56	74.0	19.44	Peak	101.00	100	Vertical	Pass
4**	7593.815	44.14	54.0	9.86	AV	101.00	100	Vertical	Pass
5	12428.066	52.45	74.0	21.55	Peak	234.00	300	Vertical	Pass
5**	12428.066	42.38	54.0	11.62	AV	234.00	300	Vertical	Pass
6	15919.461	53.52	74.0	20.49	Peak	222.00	200	Vertical	Pass
6**	15919.461	43.67	54.0	10.33	AV	222.00	200	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1518.212	41.39	74.0	32.61	Peak	172.00	300	Horizontal	Pass
1**	1518.212	32.90	54.0	21.10	AV	172.00	300	Horizontal	Pass
2	4116.061	47.21	74.0	26.79	Peak	323.00	100	Horizontal	Pass
2**	4116.061	38.10	54.0	15.90	AV	323.00	100	Horizontal	Pass
3	5032.206	50.09	74.0	23.91	Peak	123.00	200	Horizontal	Pass
3**	5032.206	40.09	54.0	13.91	AV	123.00	200	Horizontal	Pass
4	7593.280	53.92	74.0	20.08	Peak	312.00	300	Horizontal	Pass
4**	7593.280	44.83	54.0	9.17	AV	312.00	300	Horizontal	Pass
5	12426.082	51.53	74.0	22.47	Peak	133.00	100	Horizontal	Pass
5**	12426.082	41.53	54.0	12.47	AV	133.00	100	Horizontal	Pass
6	15921.176	53.07	74.0	20.94	Peak	178.00	300	Horizontal	Pass
6**	15921.176	42.99	54.0	11.01	AV	178.00	300	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1519.276	41.86	74.0	32.15	Peak	65.00	200	Vertical	Pass
1**	1519.276	32.67	54.0	21.33	AV	65.00	200	Vertical	Pass
2	4116.457	47.32	74.0	26.69	Peak	60.00	400	Vertical	Pass
2**	4116.457	38.35	54.0	15.65	AV	60.00	400	Vertical	Pass
3	5028.312	50.59	74.0	23.41	Peak	302.00	200	Vertical	Pass
3**	5028.312	40.58	54.0	13.42	AV	302.00	200	Vertical	Pass
4	7590.197	53.67	74.0	20.33	Peak	33.00	200	Vertical	Pass
4**	7590.197	44.68	54.0	9.32	AV	33.00	200	Vertical	Pass
5	12422.097	52.21	74.0	21.79	Peak	356.00	400	Vertical	Pass
5**	12422.097	42.13	54.0	11.87	AV	356.00	400	Vertical	Pass
6	15916.912	52.96	74.0	21.05	Peak	353.00	200	Vertical	Pass
6**	15916.912	43.57	54.0	10.43	AV	353.00	200	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1523.364	41.86	74.0	32.14	Peak	3.00	300	Horizontal	Pass
1**	1523.364	32.53	54.0	21.47	AV	3.00	300	Horizontal	Pass
2	4114.861	46.72	74.0	27.28	Peak	201.00	300	Horizontal	Pass
2**	4114.861	38.97	54.0	15.03	AV	201.00	300	Horizontal	Pass
3	5031.515	50.56	74.0	23.44	Peak	224.00	200	Horizontal	Pass
3**	5031.515	40.36	54.0	13.64	AV	224.00	200	Horizontal	Pass
4	7590.214	54.54	74.0	19.46	Peak	225.00	200	Horizontal	Pass
4**	7590.214	44.87	54.0	9.13	AV	225.00	200	Horizontal	Pass
5	12423.782	51.84	74.0	22.16	Peak	145.00	200	Horizontal	Pass
5**	12423.782	41.93	54.0	12.07	AV	145.00	200	Horizontal	Pass
6	15915.191	52.86	74.0	21.15	Peak	316.00	100	Horizontal	Pass
6**	15915.191	43.13	54.0	10.87	AV	316.00	100	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1521.973	42.14	74.0	31.87	Peak	177.00	300	Vertical	Pass
1**	1521.973	31.99	54.0	22.01	AV	177.00	300	Vertical	Pass
2	4115.675	46.83	74.0	27.18	Peak	14.00	300	Vertical	Pass
2**	4115.675	38.39	54.0	15.61	AV	14.00	300	Vertical	Pass
3	5027.969	50.05	74.0	23.95	Peak	158.00	200	Vertical	Pass
3**	5027.969	40.63	54.0	13.37	AV	158.00	200	Vertical	Pass
4	7595.525	53.75	74.0	20.25	Peak	46.00	100	Vertical	Pass
4**	7595.525	44.39	54.0	9.61	AV	46.00	100	Vertical	Pass
5	12427.584	51.92	74.0	22.08	Peak	271.00	100	Vertical	Pass
5**	12427.584	41.76	54.0	12.24	AV	271.00	100	Vertical	Pass
6	15917.216	53.49	74.0	20.52	Peak	122.00	200	Vertical	Pass
6**	15917.216	43.48	54.0	10.52	AV	122.00	200	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1520.619	41.67	74.0	32.33	Peak	297.00	300	Horizontal	Pass
1**	1520.619	32.73	54.0	21.27	AV	297.00	300	Horizontal	Pass
2	4116.043	47.44	74.0	26.56	Peak	207.00	100	Horizontal	Pass
2**	4116.043	39.00	54.0	15.00	AV	207.00	100	Horizontal	Pass
3	5026.985	49.93	74.0	24.07	Peak	235.00	200	Horizontal	Pass
3**	5026.985	40.26	54.0	13.74	AV	235.00	200	Horizontal	Pass
4	7590.599	54.50	74.0	19.50	Peak	350.00	100	Horizontal	Pass
4**	7590.599	44.50	54.0	9.50	AV	350.00	100	Horizontal	Pass
5	12425.186	52.11	74.0	21.89	Peak	264.00	100	Horizontal	Pass
5**	12425.186	41.65	54.0	12.35	AV	264.00	100	Horizontal	Pass
6	15918.427	53.36	74.0	20.65	Peak	39.00	100	Horizontal	Pass
6**	15918.427	43.40	54.0	10.60	AV	39.00	100	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1518.035	41.18	74.0	32.83	Peak	185.00	100	Vertical	Pass
1**	1518.035	32.46	54.0	21.54	AV	185.00	100	Vertical	Pass
2	4113.847	47.19	74.0	26.82	Peak	232.00	200	Vertical	Pass
2**	4113.847	37.83	54.0	16.17	AV	232.00	200	Vertical	Pass
3	5033.701	49.83	74.0	24.17	Peak	124.00	200	Vertical	Pass
3**	5033.701	39.71	54.0	14.29	AV	124.00	200	Vertical	Pass
4	7595.608	53.64	74.0	20.36	Peak	251.00	100	Vertical	Pass
4**	7595.608	43.70	54.0	10.30	AV	251.00	100	Vertical	Pass
5	12422.600	51.30	74.0	22.70	Peak	174.00	200	Vertical	Pass
5**	12422.600	42.01	54.0	11.99	AV	174.00	200	Vertical	Pass
6	15916.521	52.61	74.0	21.40	Peak	23.00	300	Vertical	Pass
6**	15916.521	42.67	54.0	11.33	AV	23.00	300	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1521.883	40.53	74.0	33.47	Peak	154.00	200	Horizontal	Pass
1**	1521.883	32.53	54.0	21.47	AV	154.00	200	Horizontal	Pass
2	4119.300	47.05	74.0	26.95	Peak	76.00	100	Horizontal	Pass
2**	4119.300	37.75	54.0	16.25	AV	76.00	100	Horizontal	Pass
3	5032.137	49.69	74.0	24.31	Peak	118.00	200	Horizontal	Pass
3**	5032.137	39.94	54.0	14.06	AV	118.00	200	Horizontal	Pass
4	7595.871	52.95	74.0	21.05	Peak	176.00	100	Horizontal	Pass
4**	7595.871	44.45	54.0	9.55	AV	176.00	100	Horizontal	Pass
5	12428.012	50.93	74.0	23.07	Peak	81.00	100	Horizontal	Pass
5**	12428.012	40.63	54.0	13.37	AV	81.00	100	Horizontal	Pass
6	15922.347	52.93	74.0	21.08	Peak	312.00	100	Horizontal	Pass
6**	15922.347	42.73	54.0	11.27	AV	312.00	100	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1523.871	41.59	74.0	32.42	Peak	153.00	400	Vertical	Pass
1**	1523.871	31.75	54.0	22.25	AV	153.00	400	Vertical	Pass
2	4118.314	46.09	74.0	27.92	Peak	99.00	200	Vertical	Pass
2**	4118.314	38.33	54.0	15.67	AV	99.00	200	Vertical	Pass
3	5028.192	49.84	74.0	24.16	Peak	213.00	200	Vertical	Pass
3**	5028.192	39.75	54.0	14.25	AV	213.00	200	Vertical	Pass
4	7592.776	53.44	74.0	20.56	Peak	56.00	100	Vertical	Pass
4**	7592.776	44.08	54.0	9.92	AV	56.00	100	Vertical	Pass
5	12427.467	51.29	74.0	22.71	Peak	280.00	200	Vertical	Pass
5**	12427.467	41.13	54.0	12.87	AV	280.00	200	Vertical	Pass
6	15921.562	53.06	74.0	20.95	Peak	210.00	400	Vertical	Pass
6**	15921.562	42.90	54.0	11.10	AV	210.00	400	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1522.114	41.59	74.0	32.41	Peak	92.00	100	Horizontal	Pass
1**	1522.114	32.33	54.0	21.67	AV	92.00	100	Horizontal	Pass
2	4121.679	46.46	74.0	27.54	Peak	163.00	100	Horizontal	Pass
2**	4121.679	38.32	54.0	15.68	AV	163.00	100	Horizontal	Pass
3	5033.100	49.64	74.0	24.36	Peak	249.00	200	Horizontal	Pass
3**	5033.100	40.26	54.0	13.74	AV	249.00	200	Horizontal	Pass
4	7593.457	53.88	74.0	20.12	Peak	334.00	200	Horizontal	Pass
4**	7593.457	44.57	54.0	9.43	AV	334.00	200	Horizontal	Pass
5	12422.106	51.21	74.0	22.79	Peak	50.00	100	Horizontal	Pass
5**	12422.106	41.05	54.0	12.95	AV	50.00	100	Horizontal	Pass
6	15914.892	52.09	74.0	21.92	Peak	29.00	400	Horizontal	Pass
6**	15914.892	42.60	54.0	11.40	AV	29.00	400	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1519.172	41.13	74.0	32.87	Peak	170.00	400	Vertical	Pass
1**	1519.172	32.36	54.0	21.64	AV	170.00	400	Vertical	Pass
2	4119.551	47.15	74.0	26.85	Peak	235.00	200	Vertical	Pass
2**	4119.551	37.77	54.0	16.23	AV	235.00	200	Vertical	Pass
3	5028.899	49.73	74.0	24.27	Peak	226.00	200	Vertical	Pass
3**	5028.899	39.65	54.0	14.35	AV	226.00	200	Vertical	Pass
4	7593.712	53.62	74.0	20.38	Peak	158.00	400	Vertical	Pass
4**	7593.712	43.66	54.0	10.34	AV	158.00	400	Vertical	Pass
5	12425.788	51.24	74.0	22.76	Peak	260.00	100	Vertical	Pass
5**	12425.788	41.94	54.0	12.06	AV	260.00	100	Vertical	Pass
6	15919.135	52.55	74.0	21.45	Peak	163.00	400	Vertical	Pass
6**	15919.135	42.62	54.0	11.38	AV	163.00	400	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1521.125	41.62	74.0	32.38	Peak	165.00	400	Horizontal	Pass
1**	1521.125	32.71	54.0	21.29	AV	165.00	400	Horizontal	Pass
2	4120.592	47.35	74.0	26.65	Peak	56.00	400	Horizontal	Pass
2**	4120.592	38.92	54.0	15.08	AV	56.00	400	Horizontal	Pass
3	5027.720	49.90	74.0	24.10	Peak	135.00	200	Horizontal	Pass
3**	5027.720	40.21	54.0	13.79	AV	135.00	200	Horizontal	Pass
4	7592.845	54.47	74.0	19.53	Peak	272.00	200	Horizontal	Pass
4**	7592.845	44.43	54.0	9.57	AV	272.00	200	Horizontal	Pass
5	12423.196	52.07	74.0	21.93	Peak	223.00	300	Horizontal	Pass
5**	12423.196	41.64	54.0	12.36	AV	223.00	300	Horizontal	Pass
6	15921.144	53.33	74.0	20.67	Peak	138.00	400	Horizontal	Pass
6**	15921.144	43.37	54.0	10.63	AV	138.00	400	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1519.646	41.56	74.0	32.45	Peak	320.00	400	Vertical	Pass
1**	1519.646	31.74	54.0	22.26	AV	320.00	400	Vertical	Pass
2	4113.966	45.99	74.0	28.01	Peak	340.00	300	Vertical	Pass
2**	4113.966	38.26	54.0	15.74	AV	340.00	300	Vertical	Pass
3	5031.248	49.77	74.0	24.23	Peak	239.00	200	Vertical	Pass
3**	5031.248	39.67	54.0	14.33	AV	239.00	200	Vertical	Pass
4	7594.014	53.43	74.0	20.57	Peak	202.00	400	Vertical	Pass
4**	7594.014	44.06	54.0	9.94	AV	202.00	400	Vertical	Pass
5	12429.135	51.22	74.0	22.79	Peak	289.00	100	Vertical	Pass
5**	12429.135	41.11	54.0	12.89	AV	289.00	100	Vertical	Pass
6	15919.195	53.00	74.0	21.00	Peak	248.00	200	Vertical	Pass
6**	15919.195	42.89	54.0	11.11	AV	248.00	200	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1522.802	42.30	74.0	31.70	Peak	169.00	100	Horizontal	Pass
1**	1522.802	32.96	54.0	21.04	AV	169.00	100	Horizontal	Pass
2	4121.062	47.59	74.0	26.41	Peak	143.00	300	Horizontal	Pass
2**	4121.062	39.06	54.0	14.94	AV	143.00	300	Horizontal	Pass
3	5029.674	50.56	74.0	23.44	Peak	82.00	200	Horizontal	Pass
3**	5029.674	40.75	54.0	13.25	AV	82.00	200	Horizontal	Pass
4	7591.052	54.72	74.0	19.28	Peak	81.00	300	Horizontal	Pass
4**	7591.052	44.92	54.0	9.08	AV	81.00	300	Horizontal	Pass
5	12421.742	52.20	74.0	21.80	Peak	190.00	200	Horizontal	Pass
5**	12421.742	42.44	54.0	11.57	AV	190.00	200	Horizontal	Pass
6	15920.861	53.43	74.0	20.57	Peak	185.00	400	Horizontal	Pass
6**	15920.861	43.68	54.0	10.32	AV	185.00	400	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1518.081	40.52	74.0	33.48	Peak	52.00	400	Vertical	Pass
1**	1518.081	32.11	54.0	21.89	AV	52.00	400	Vertical	Pass
2	4116.513	46.77	74.0	27.23	Peak	265.00	300	Vertical	Pass
2**	4116.513	37.35	54.0	16.65	AV	265.00	300	Vertical	Pass
3	5031.715	48.93	74.0	25.07	Peak	99.00	200	Vertical	Pass
3**	5031.715	39.20	54.0	14.80	AV	99.00	200	Vertical	Pass
4	7592.843	53.14	74.0	20.86	Peak	323.00	300	Vertical	Pass
4**	7592.843	42.89	54.0	11.11	AV	323.00	300	Vertical	Pass
5	12426.203	50.32	74.0	23.68	Peak	337.00	300	Vertical	Pass
5**	12426.203	41.60	54.0	12.40	AV	337.00	300	Vertical	Pass
6	15921.186	51.71	74.0	22.29	Peak	266.00	200	Vertical	Pass
6**	15921.186	42.55	54.0	11.45	AV	266.00	200	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1521.846	42.25	74.0	31.75	Peak	170.00	200	Horizontal	Pass
1**	1521.846	32.94	54.0	21.06	AV	170.00	200	Horizontal	Pass
2	4120.096	47.61	74.0	26.39	Peak	91.00	200	Horizontal	Pass
2**	4120.096	38.97	54.0	15.03	AV	91.00	200	Horizontal	Pass
3	5030.551	50.59	74.0	23.42	Peak	300.00	200	Horizontal	Pass
3**	5030.551	40.80	54.0	13.20	AV	300.00	200	Horizontal	Pass
4	7592.011	54.72	74.0	19.28	Peak	62.00	200	Horizontal	Pass
4**	7592.011	44.94	54.0	9.06	AV	62.00	200	Horizontal	Pass
5	12427.411	52.21	74.0	21.79	Peak	185.00	400	Horizontal	Pass
5**	12427.411	42.45	54.0	11.56	AV	185.00	400	Horizontal	Pass
6	15920.139	53.35	74.0	20.65	Peak	185.00	300	Horizontal	Pass
6**	15920.139	43.68	54.0	10.32	AV	185.00	300	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1519.851	41.53	74.0	32.47	Peak	32.00	200	Vertical	Pass
1**	1519.851	30.89	54.0	23.11	AV	32.00	200	Vertical	Pass
2	4119.539	45.85	74.0	28.15	Peak	108.00	200	Vertical	Pass
2**	4119.539	37.86	54.0	16.14	AV	108.00	200	Vertical	Pass
3	5031.904	49.56	74.0	24.44	Peak	84.00	200	Vertical	Pass
3**	5031.904	39.64	54.0	14.36	AV	84.00	200	Vertical	Pass
4	7590.849	52.66	74.0	21.34	Peak	267.00	200	Vertical	Pass
4**	7590.849	43.59	54.0	10.41	AV	267.00	200	Vertical	Pass
5	12426.766	50.68	74.0	23.33	Peak	225.00	400	Vertical	Pass
5**	12426.766	40.14	54.0	13.86	AV	225.00	400	Vertical	Pass
6	15919.787	52.20	74.0	21.80	Peak	347.00	400	Vertical	Pass
6**	15919.787	41.99	54.0	12.01	AV	347.00	400	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1521.928	42.27	74.0	31.73	Peak	144.00	100	Horizontal	Pass
1**	1521.928	32.89	54.0	21.11	AV	144.00	100	Horizontal	Pass
2	4118.019	47.58	74.0	26.42	Peak	230.00	200	Horizontal	Pass
2**	4118.019	39.01	54.0	14.99	AV	230.00	200	Horizontal	Pass
3	5033.041	50.59	74.0	23.41	Peak	148.00	200	Horizontal	Pass
3**	5033.041	40.84	54.0	13.17	AV	148.00	200	Horizontal	Pass
4	7592.125	54.73	74.0	19.27	Peak	209.00	300	Horizontal	Pass
4**	7592.125	44.87	54.0	9.13	AV	209.00	300	Horizontal	Pass
5	12423.056	52.13	74.0	21.87	Peak	157.00	100	Horizontal	Pass
5**	12423.056	42.46	54.0	11.54	AV	157.00	100	Horizontal	Pass
6	15919.302	53.41	74.0	20.59	Peak	113.00	400	Horizontal	Pass
6**	15919.302	43.64	54.0	10.37	AV	113.00	400	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1523.139	42.09	74.0	31.92	Peak	166.00	400	Vertical	Pass
1**	1523.139	32.13	54.0	21.87	AV	166.00	400	Vertical	Pass
2	4117.066	47.16	74.0	26.85	Peak	205.00	400	Vertical	Pass
2**	4117.066	38.29	54.0	15.71	AV	205.00	400	Vertical	Pass
3	5028.210	50.00	74.0	24.00	Peak	115.00	200	Vertical	Pass
3**	5028.210	40.31	54.0	13.69	AV	115.00	200	Vertical	Pass
4	7590.252	54.54	74.0	19.46	Peak	322.00	200	Vertical	Pass
4**	7590.252	44.24	54.0	9.76	AV	322.00	200	Vertical	Pass
5	12428.509	51.77	74.0	22.23	Peak	40.00	200	Vertical	Pass
5**	12428.509	41.82	54.0	12.18	AV	40.00	200	Vertical	Pass
6	15916.415	52.81	74.0	21.20	Peak	55.00	100	Vertical	Pass
6**	15916.415	43.10	54.0	10.90	AV	55.00	100	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1523.953	40.72	74.0	33.28	Peak	270.00	300	Horizontal	Pass
1**	1523.953	31.94	54.0	22.06	AV	270.00	300	Horizontal	Pass
2	4119.435	46.99	74.0	27.01	Peak	265.00	100	Horizontal	Pass
2**	4119.435	37.86	54.0	16.14	AV	265.00	100	Horizontal	Pass
3	5032.074	49.17	74.0	24.83	Peak	111.00	200	Horizontal	Pass
3**	5032.074	39.55	54.0	14.45	AV	111.00	200	Horizontal	Pass
4	7591.786	53.83	74.0	20.17	Peak	72.00	200	Horizontal	Pass
4**	7591.786	44.49	54.0	9.51	AV	72.00	200	Horizontal	Pass
5	12427.399	50.69	74.0	23.31	Peak	3.00	200	Horizontal	Pass
5**	12427.399	40.61	54.0	13.39	AV	3.00	200	Horizontal	Pass
6	15916.189	52.81	74.0	21.20	Peak	339.00	400	Horizontal	Pass
6**	15916.189	41.99	54.0	12.01	AV	339.00	400	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1523.782	41.49	74.0	32.52	Peak	192.00	200	Vertical	Pass
1**	1523.782	32.48	54.0	21.52	AV	192.00	200	Vertical	Pass
2	4118.268	46.97	74.0	27.04	Peak	359.00	200	Vertical	Pass
2**	4118.268	38.20	54.0	15.80	AV	359.00	200	Vertical	Pass
3	5033.845	50.43	74.0	23.57	Peak	68.00	200	Vertical	Pass
3**	5033.845	40.26	54.0	13.74	AV	68.00	200	Vertical	Pass
4	7589.497	52.95	74.0	21.05	Peak	157.00	300	Vertical	Pass
4**	7589.497	44.48	54.0	9.52	AV	157.00	300	Vertical	Pass
5	12423.813	51.91	74.0	22.09	Peak	288.00	400	Vertical	Pass
5**	12423.813	41.98	54.0	12.02	AV	288.00	400	Vertical	Pass
6	15916.430	52.79	74.0	21.22	Peak	104.00	200	Vertical	Pass
6**	15916.430	42.94	54.0	11.06	AV	104.00	200	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1521.599	42.29	74.0	31.71	Peak	84.00	100	Horizontal	Pass
1**	1521.599	32.30	54.0	21.70	AV	84.00	100	Horizontal	Pass
2	4113.876	47.32	74.0	26.68	Peak	288.00	400	Horizontal	Pass
2**	4113.876	39.06	54.0	14.94	AV	288.00	400	Horizontal	Pass
3	5032.383	50.43	74.0	23.57	Peak	145.00	200	Horizontal	Pass
3**	5032.383	40.11	54.0	13.89	AV	145.00	200	Horizontal	Pass
4	7589.521	54.73	74.0	19.27	Peak	95.00	100	Horizontal	Pass
4**	7589.521	44.94	54.0	9.06	AV	95.00	100	Horizontal	Pass
5	12424.722	51.58	74.0	22.42	Peak	153.00	100	Horizontal	Pass
5**	12424.722	41.58	54.0	12.42	AV	153.00	100	Horizontal	Pass
6	15917.838	53.37	74.0	20.64	Peak	218.00	200	Horizontal	Pass
6**	15917.838	43.05	54.0	10.95	AV	218.00	200	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1521.755	41.45	74.0	32.56	Peak	39.00	400	Vertical	Pass
1**	1521.755	32.53	54.0	21.47	AV	39.00	400	Vertical	Pass
2	4115.520	46.81	74.0	27.20	Peak	141.00	100	Vertical	Pass
2**	4115.520	38.71	54.0	15.29	AV	141.00	100	Vertical	Pass
3	5028.806	50.38	74.0	23.62	Peak	195.00	200	Vertical	Pass
3**	5028.806	40.08	54.0	13.92	AV	195.00	200	Vertical	Pass
4	7592.584	54.17	74.0	19.83	Peak	273.00	100	Vertical	Pass
4**	7592.584	44.93	54.0	9.07	AV	273.00	100	Vertical	Pass
5	12426.745	51.54	74.0	22.46	Peak	219.00	200	Vertical	Pass
5**	12426.745	42.15	54.0	11.85	AV	219.00	200	Vertical	Pass
6	15918.077	53.18	74.0	20.83	Peak	323.00	200	Vertical	Pass
6**	15918.077	42.90	54.0	11.10	AV	323.00	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.

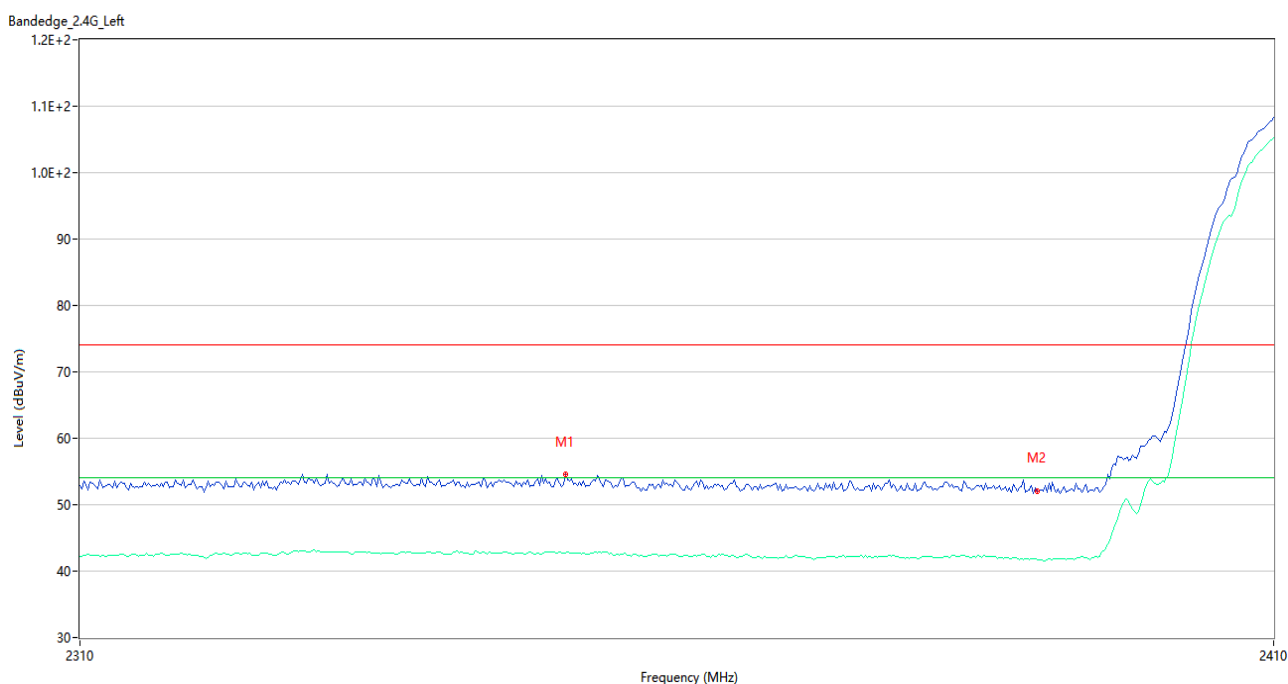
Note ²: The test data all are tested in the vertical and horizontal antenna which the trace is max hold. So these plots have shown the worst case.

Note ³: According the ANSI C63.10-2020 + Cor. 1-2023 + C63.10a-2024 + Errata to C63.10a-2024, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

Note ⁴: Both horizontal and vertical directions were pre tested, only the worst configuration has been reported in this report.

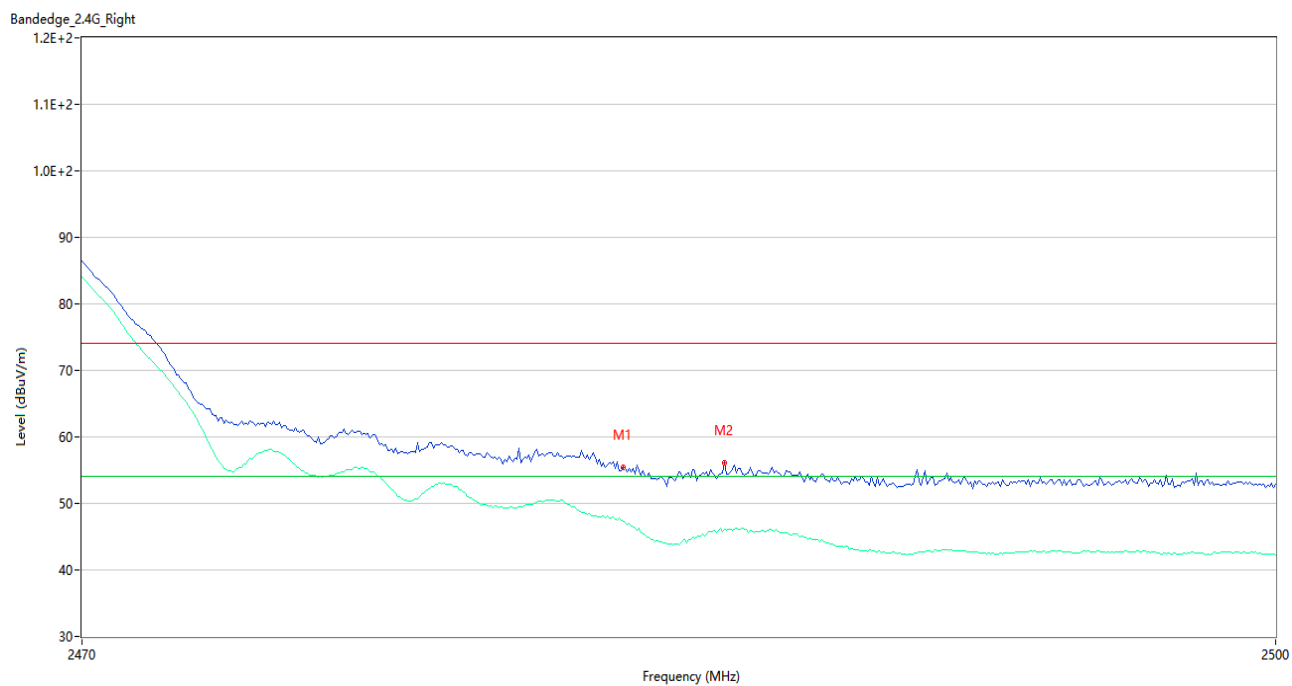
Test Data and Plots

802.11b LOW CHANNEL



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2350.167	54.58	74.0	19.42	Peak	352.00	100	Horizontal	Pass
1**	2350.167	42.71	54.0	11.29	AV	352.00	100	Horizontal	Pass
2	2389.833	52.11	74.0	21.89	Peak	329.00	100	Horizontal	Pass
2**	2389.833	41.74	54.0	12.26	AV	329.00	100	Horizontal	Pass

802.11b HIGH CHANNEL



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.550	55.35	74.0	18.65	Peak	65.00	200	Horizontal	Pass
1**	2483.550	47.25	54.0	6.75	AV	65.00	200	Horizontal	Pass
2	2486.100	56.02	74.0	17.98	Peak	129.00	100	Horizontal	Pass
2**	2486.100	46.10	54.0	7.90	AV	129.00	100	Horizontal	Pass

802.11g LOW CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2335.245	55.06	74.0	18.94	Peak	26.00	300	Horizontal	Pass
1**	2335.245	42.90	54.0	11.10	AV	26.00	300	Horizontal	Pass
2	2390.000	56.22	74.0	17.78	Peak	214.00	200	Horizontal	Pass
2**	2390.000	44.59	54.0	9.41	AV	214.00	200	Horizontal	Pass

802.11g HIGH CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	55.16	74.0	18.84	Peak	45.00	100	Horizontal	Pass
1**	2483.500	45.55	54.0	8.45	AV	45.00	100	Horizontal	Pass
2	2483.784	56.18	74.0	17.82	Peak	56.00	200	Horizontal	Pass
2**	2483.784	45.05	54.0	8.95	AV	56.00	200	Horizontal	Pass

802.11n20 LOW CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2388.702	56.77	74.0	17.23	Peak	27.00	200	Horizontal	Pass
1**	2388.702	44.92	54.0	9.08	AV	27.00	200	Horizontal	Pass
2	2390.000	55.92	74.0	18.08	Peak	107.00	300	Horizontal	Pass
2**	2390.000	45.34	54.0	8.66	AV	107.00	300	Horizontal	Pass

802.11n20 HIGH CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	59.06	74.0	14.94	Peak	342.00	100	Horizontal	Pass
1**	2483.500	46.63	54.0	7.37	AV	342.00	100	Horizontal	Pass
2	2486.383	59.33	74.0	14.67	Peak	26.00	300	Horizontal	Pass
2**	2486.383	46.78	54.0	7.22	AV	26.00	300	Horizontal	Pass

802.11n40 LOW CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2386.754	58.27	74.0	15.73	Peak	21.00	100	Horizontal	Pass
1**	2386.754	46.48	54.0	7.52	AV	21.00	100	Horizontal	Pass
2	2390.000	57.50	74.0	16.50	Peak	260.00	200	Horizontal	Pass
2**	2390.000	46.27	54.0	7.73	AV	260.00	200	Horizontal	Pass

802.11n40 HIGH CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	58.51	74.0	15.49	Peak	97.00	100	Horizontal	Pass
1**	2483.500	46.57	54.0	7.43	AV	97.00	100	Horizontal	Pass
2	2484.845	61.23	74.0	12.77	Peak	227.00	200	Horizontal	Pass
2**	2484.845	46.79	54.0	7.21	AV	227.00	200	Horizontal	Pass

A.8 Power Spectral Density (PSD)

Test Data

802.11b Mode:

Channel	Spectral Power Density (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
Low	-6.91	8	Pass
Middle	-8.65	8	Pass
High	-9.36	8	Pass

802.11g Mode:

Channel	Spectral Power Density (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
Low	-10.69	8	Pass
Middle	-11.58	8	Pass
High	-10.41	8	Pass

802.11n-20 MHz Mode:

Channel	Spectral Power Density (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
Low	-10.23	8	Pass
Middle	-12.00	8	Pass
High	-11.36	8	Pass

802.11n-40 MHz Mode:

Channel	Spectral Power Density (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
Low	-14.47	8	Pass
Middle	-13.31	8	Pass
High	-12.37	8	Pass

Test Plots

802.11b LOW CHANNEL



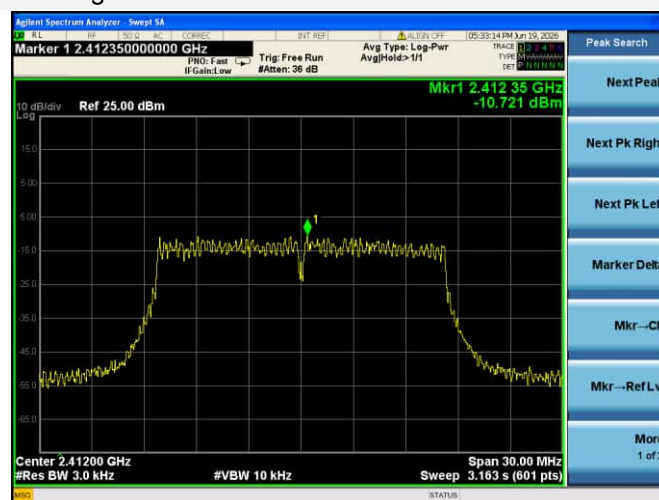
802.11b MIDDLE CHANNEL



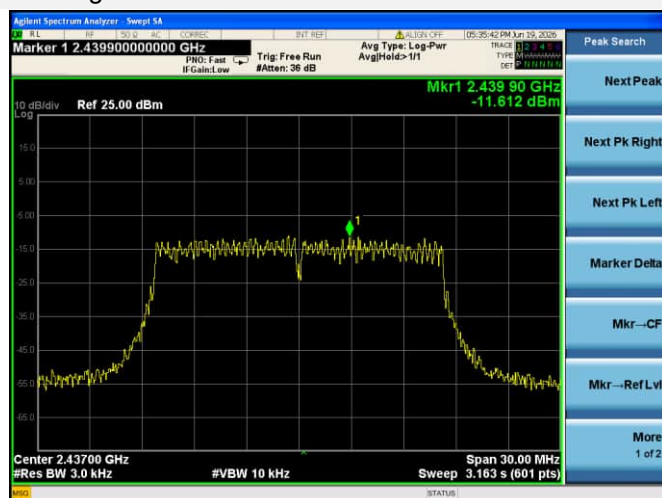
802.11b HIGH CHANNEL



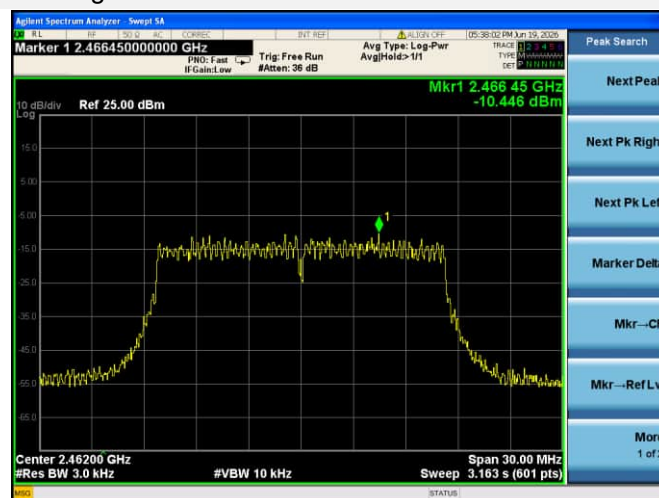
802.11g LOW CHANNEL



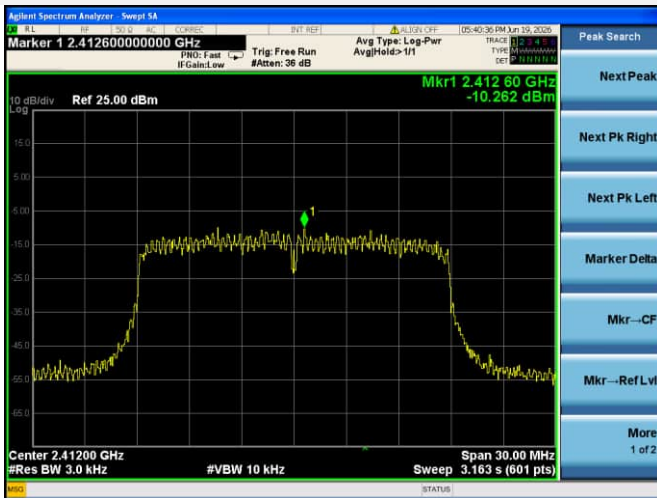
802.11g MIDDLE CHANNEL



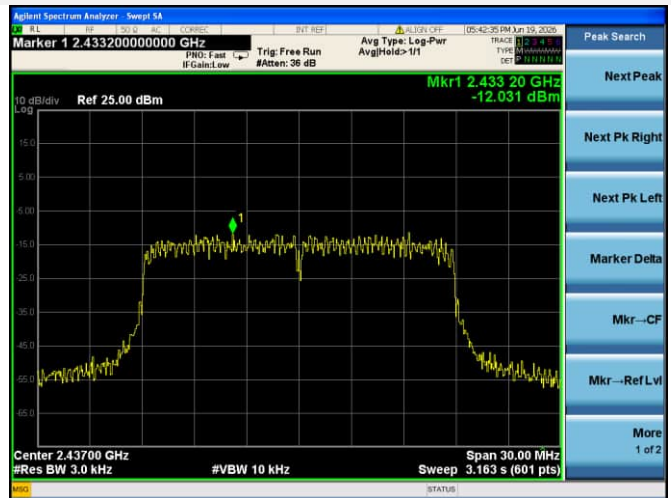
802.11g HIGH CHANNEL



802.11n-20 MHz LOW CHANNEL



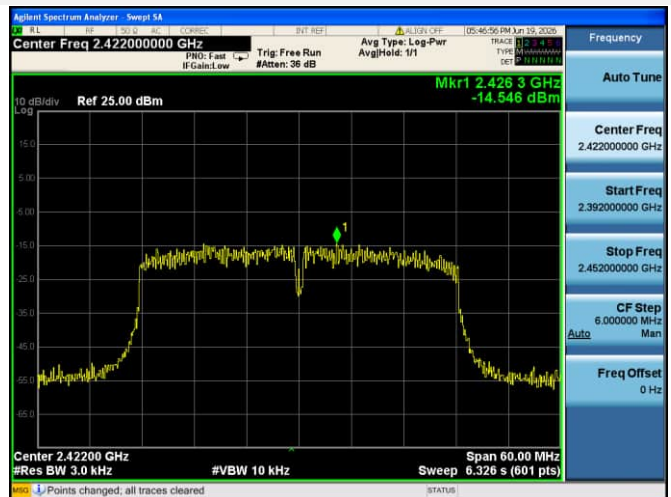
802.11n-20 MHz MIDDLE CHANNEL



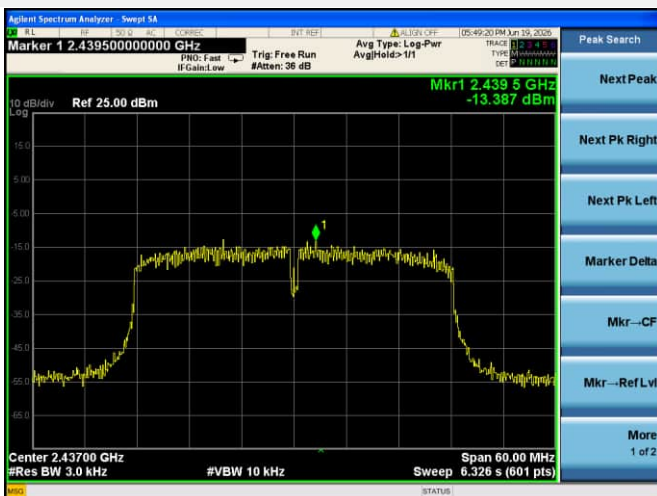
802.11n-20 MHz HIGH CHANNEL



802.11n-40 MHz LOW CHANNEL



802.11n-40 MHz MIDDLE CHANNEL



802.11n-40 MHz HIGH CHANNEL



ANNEX B TEST SETUP PHOTOS

Please refer the document “Ti-EE26060651-AR.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “Ti-EE26060651-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “Ti-EE26060651-AI.PDF”.

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