

TEST REPORT

Applicant: UROVO TECHNOLOGY CO., LTD.
Address: 36F, High-Tech Zone Union Tower, No.63, Xuefu Road, Nanshan District, Shenzhen, Guangdong, China
Equipment Type: Mobile Data terminal
Model Name: DT66 (refer to section 2.3)
Brand Name: UROVO
FCC ID: SWSDT66
Test Standard: 47 CFR Part 15 Subpart C (refer to section 3.1)
Sample Arrival Date: Sep. 10, 2024
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ISSUED BY:

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Revision History

Version	Issue Date	Revisions
<u>Rev. 01</u>	<u>Dec. 19, 2024</u>	<u>Initial Issue</u>
<u>Rev. 02</u>	<u>Dec. 30, 2024</u>	<u>Updated 36 pages of power conversion</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	UROVO TECHNOLOGY CO., LTD.
Address	36F, High-Tech Zone Union Tower, No.63, Xuefu Road, Nanshan District, Shenzhen, Guangdong, China

2.2 Manufacturer Information

Manufacturer	UROVO TECHNOLOGY CO., LTD.
Address	36F, High-Tech Zone Union Tower, No.63, Xuefu Road, Nanshan District, Shenzhen, Guangdong, China

2.3 General Description for Equipment under Test (EUT)

EUT Name	Mobile Data terminal
Model Name Under Test	DT66
Series Model Name	DT66S, DT66M, DT66C, DT66 Pro, DT66H, DT66HC, DT66U, DT66G, DT66D, DT66P, DT66R, DT66 Lite, HB680, HS690, HD660
Description of Model name differentiation	All models are same with electrical parameters and internal circuit structure, but only differ in model name. (this information provided by the applicant)
Hardware Version	N/A
Software Version	N/A
Dimensions (Approx.)	175.8mm*76.5mm*14.5mm
Weight (Approx.)	About 283g (battery included)

2.4 Technical Information

Network and Wireless connectivity	2G Network GSM/GPRS/EDGE 850/1900 MHz 3G Network WCDMA/HSDPA/HSUPA Band 2/4/5 4G Network FDD LTE Band 2/4/5/7/12/13/17/25/26/66/71 TDD LTE Band 38/41 5G Network SA: NR n2/n5/n7/n12/n13/n25/n26/n38/n41/n66/n71/n77/n78 NSA(EN-DC): DC_2A_n5A, DC_2A_n7A, DC_2A_n12A, DC_2A_n38A, DC_2A_n41A, DC_2A_n66A, DC_2A_n71A, DC_2A_n77A, DC_2A_n78A, DC_4A_n2A, DC_4A_n7A, DC_4A_n38A, DC_4A_n41A, DC_4A_n78A, DC_5A_n2A, DC_5A_n7A, DC_5A_n25A, DC_5A_n38A, DC_5A_n41A, DC_5A_n66A, DC_5A_n77A, DC_5A_n78A, DC_7A_n2A, DC_7A_n5A, DC_7A_n25A, DC_7A_n66A, DC_7A_n71A, DC_7A_n77A, DC_7A_n78A, DC_12A_n2A, DC_12A_n7A, DC_12A_n25A, DC_12A_n38A, DC_12A_n41A, DC_12A_n66A, DC_12A_n77A, DC_12A_n78A, DC_13A_n2A, DC_13A_n7A, DC_13A_n25A, DC_13A_n66A, DC_13A_n77A, DC_13A_n78A, DC_25A_n41A, DC_25A_n77A, DC_25A_n78A, DC_26A_n25A, DC_26A_n41A, DC_26A_n78A, DC_38A_n78A, DC_41A_n77A, DC_41A_n78A, DC_66A_n2A, DC_66A_n5A, DC_66A_n7A, DC_66A_n12A, DC_66A_n25A, DC_66A_n38A, DC_66A_n41A, DC_66A_n71A, DC_66A_n77A, DC_66A_n78A, DC_71A_n2A, DC_71A_n25A, DC_71A_n38A, DC_71A_n41A, DC_71A_n66A, DC_71A_n77A, DC_71A_n78A Bluetooth (BR+EDR+BLE) WIFI 802.11a, 802.11b, 802.11g, 802.11n, 802.11ac and 802.11ax GPS, GLONASS, BDS, Galileo, NFC
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The requirement for the following technical information of the EUT was tested in this report:

Frequency Range		802.11b/g/n/ax(20 MHz): 2.412 GHz - 2.462 GHz $f_c = 2412 \text{ MHz} + (N-1)*5 \text{ MHz}$, where - f_c = "Operating Frequency" in MHz, - N = "Channel Number" with the range from 1 to 11. 802.11n/ax(40 MHz): 2.422 GHz - 2.452 GHz $f_c = 2412 \text{ MHz} + (N-1)*5 \text{ MHz}$, where - f_c = "Operating Frequency" in MHz, - N = "Channel Number" with the range from 3 to 9.
Modulation Type		DSSS, OFDM, OFDMA
Product Type		☐ Mobile ☒ Portable ☐ Fix Location
Antenna System (eg., MIMO, Smart Antenna)		Cyclic Delay Diversity (CDD) for 802.11b/g Multi Input Multi Output (MIMO) for 802.11n/ax
Categorization as Correlated or Completely Uncorrelated		Categorization as Correlated for 802.11b/g Categorization as Uncorrelated for 802.11n/ax
Antenna Type	Antenna 2	PIFA Antenna
	Antenna 3	
Antenna Gain	Antenna 2	1.44 dBi
	Antenna 3	-2.14 dBi
Total directional gain	For power spectral density (PSD) measurements	Correlated: 2.84 dBi Formulas: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / NANT]$ dBi Uncorrelated: 0.01 dBi Formulas: Directional gain = $10 \log[(10^{G1/10} + 10^{G2/10} + \dots + 10^{GN/10}) / NANT]$ dBi
	For power measurements	Correlated: 2.84 dBi Formulas: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / NANT]$ dBi Uncorrelated: 0.01 dBi Formulas: Directional gain = $10 \log[(10^{G1/10} + 10^{G2/10} + \dots + 10^{GN/10}) / NANT]$ dBi
	For Conducted Out-of-Band and Spurious Measurem	Correlated: 2.84 dBi Formulas: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / NANT]$ dBi Uncorrelated: 0.01 dBi

	ents	Formulas: Directional gain = $10 \log[(10^{G1/10} + 10^{G2/10} + \dots + 10^{GN/10})/NANT]$ dBi
About the Product		Only the WIFI 802.11b, 802.11g, 802.11n (HT20/40) and 802.11ax (HE20/40) was tested in this report.

Mode	Antenna		
	Antenna 2	Antenna 3	MIMO
802.11b	√	√	√
802.11g	√	√	√
802.11n20	√	√	√
802.11n40	√	√	√
802.11ax20	√	√	√
802.11ax40	√	√	√
Note: All the configurations were tested, but only the worst data was shown in this report.			

802.11ax RU configuration table					
Mode	Full RU (SU)	RU_26	RU_52	RU_106	RU_242
802.11ax20	√	√	√	√	--
802.11ax40	√	√	√	√	√

Modulation technology	Modulation Type	Transfer Rate (Mbps)(Single RF path)
DSSS (802.11b)	DBPSK	1
	DQPSK	2
	CCK	5.5/11
OFDM (802.11g)	BPSK	6/9
	QPSK	12/18
	16QAM	24/36
	64QAM	48/54
OFDM (802.11n-20 MHz)	BPSK	6.5/7.2
	QPSK	13/19.5/14.4/21.7
	16QAM	26/39/28.9/43.3
	64QAM	52/58.5/65/57.8/65/72.2
OFDM (802.11n-40 MHz)	BPSK	13.5/15
	QPSK	27/40.5/30/45
	16QAM	54/81/60/90
	64QAM	108/121.5/135/120/150
OFDMA (802.11ax-20 MHz)	BPSK	4
	QPSK	16/24/17/26
	16QAM	33/49/34/52
	64QAM	65/73/81/69/77/86
	256QAM	98/108/103/115
	1024QAM	122/135/129/143
OFDMA	BPSK	8/9

(802.11ax-40 MHz)	QPSK	33/49/34/52
	16QAM	65/98/69/103
	64QAM	130/146/163/138/155/172
	256QAM	195/217/207/229
	1024QAM	244/271/258/287

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

Test Items	Mode	Data Rate	Channel	
Output Power	11b/11g/11n20/11n40/ 11ax20/11ax40	1/6/6.5/13.5/ 4/8 Mbps	1/6/11	3/6/9
Occupied Bandwidth	11b/11g/11n20/11n40/ 11ax20/11ax40	1/6/6.5/13.5/ 4/8 Mbps	1/6/11	3/6/9
Conducted Spurious Emission	11b/11g/11n20/11n40/ 11ax20/11ax40	1/6/6.5/13.5/ 4/8 Mbps	1/6/11	3/6/9
Conducted Emission	11b/11g/11n20/11n40/ 11ax20/11ax40	1/6/6.5/13.5/ 4/8 Mbps	1/6/11	3/6/9
Radiated Spurious Emission	11b/11g/11n20/11n40/ 11ax20/11ax40	1/6/6.5/13.5/ 4/8 Mbps	1/6/11	3/6/9
Band Edge	11b/11g/11n20/11n40/ 11ax20/11ax40	1/6/6.5/13.5/ 4/8 Mbps	1/6/11	3/6/9
Power spectral density (PSD)	11b/11g/11n20/11n40/ 11ax20/11ax40	1/6/6.5/13.5/ 4/8 Mbps	1/6/11	3/6/9

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	KDB Publication 662911 D01v02r01	Emissions Testing of Transmitters with Multiple Outputs in the Same Band (e.g., MIMO, Smart Antenna, etc)
3	ANSI C63.10-2013	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices
4	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	48% to 68%	
Atmospheric Pressure	100 kPa to 102 kPa	
Temperature	NT (Normal Temperature)	+ 23.3℃ to + 25.1℃
Working Voltage of the EUT	NV (Normal Voltage)	3.8 V

4.2 Test Equipment List

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer	ROHDE&SCHWARZ	FSV-40	101544	2023.12.27	2024.12.26
Spectrum Analyzer	KEYSIGHT	N9020A	MY46471071	2024.07.04	2025.07.03
Power Sensor	KEYSIGHT	U2063XA	MY58000251	2024.07.04	2025.07.03
Spectrum Analyzer	KEYSIGHT	N9020A	MY50531259	2024.08.01	2025.07.31
Test Antenna-Horn	SCHWARZBECK	BBHA 9120D	02460	2024.05.16	2027.05.15
Test Antenna-Horn	A-INFO	LB-180400KF	J211060273	2024.06.15	2027.06.14
Anechoic Chamber	RAINFORD	9m*6m*6m	140	2024.07.28	2027.07.27
Amplifier	COM-MV	LSCX_LNA1-12G-01	7210214	2024.08.01	2025.07.31
Amplifier	COM-MV	XKu_LNA7-18G-01	7210209	2024.08.01	2025.07.31
Amplifier	COM-MV	KA LNA18 40G-01	18050001	2023.12.06	2025.07.31
EMI Receiver	ROHDE&SCHWARZ	ESRP	101036	2024.08.01	2025.07.31
Test Antenna-Loop	SCHWARZBECK	FMZB 1519	1519-037	2024.01.23	2025.01.22
Amplifier	COM-MV	ZT30-1000M	B2018054558	2023.12.05	2024.12.04
Anechoic Chamber	EMC Electronic Co., Ltd	20.10*11.60*7.35m	130	2024.07.13	2027.07.12
EMI Receiver	Agilent	N9038A	MY55330120	2024.08.01	2025.07.31
Test Antenna-Bi-Log	SCHWARZBECK	VULB 9168	9168-00867	2022.04.12	2025.04.11
Test Antenna-Loop	SCHWARZBECK	FMZB 1519	1519-037	2024.01.23	2025.01.22
Amplifier	COM-MV	ZT30-1000M	B2017119081	2023.12.05	2024.12.04
Anechoic Chamber	YiHeng	9m*6m*6m	142	2024.07.21	2027.07.20
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*2.8 m	112	2022.02.19	2025.02.18

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%

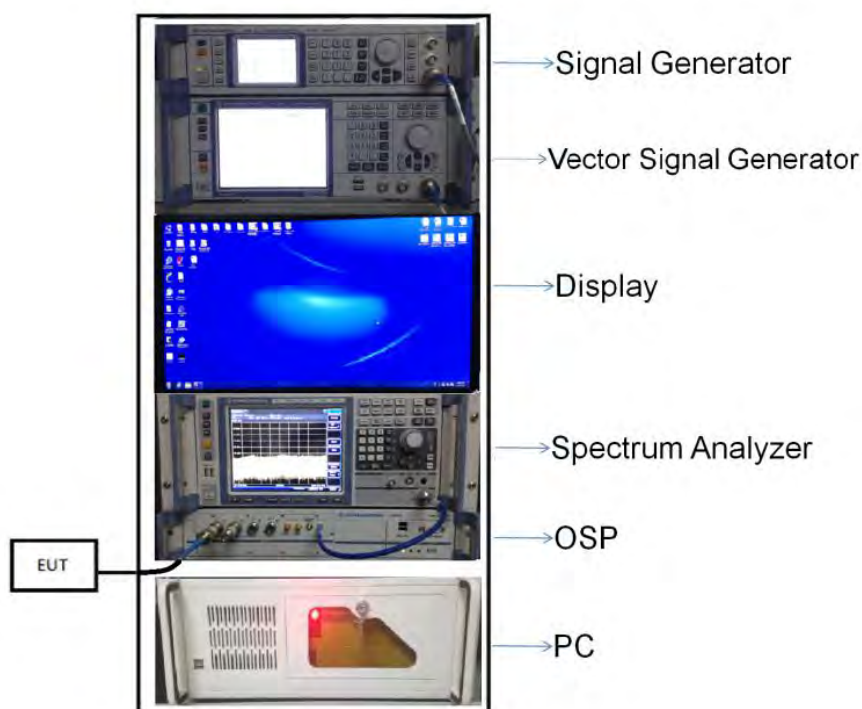
4.5 Description of Test Setup

4.5.1 For Antenna Port Test

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

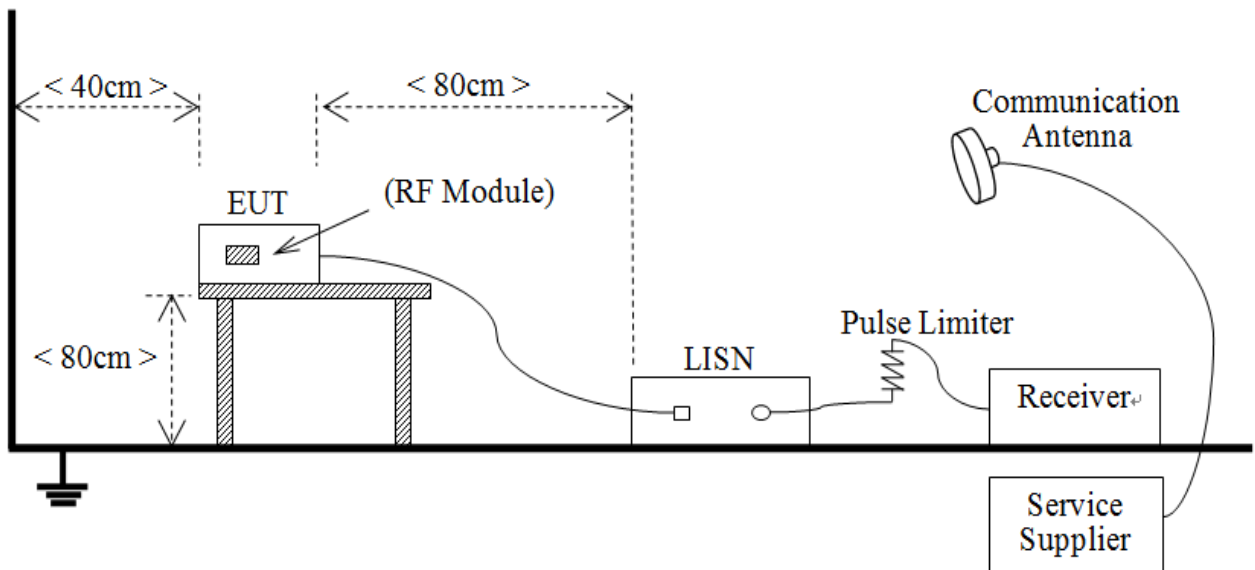
For example: the measurement value is 10 dBm and the cable 0.5dBm used, then the final result of EUT:

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



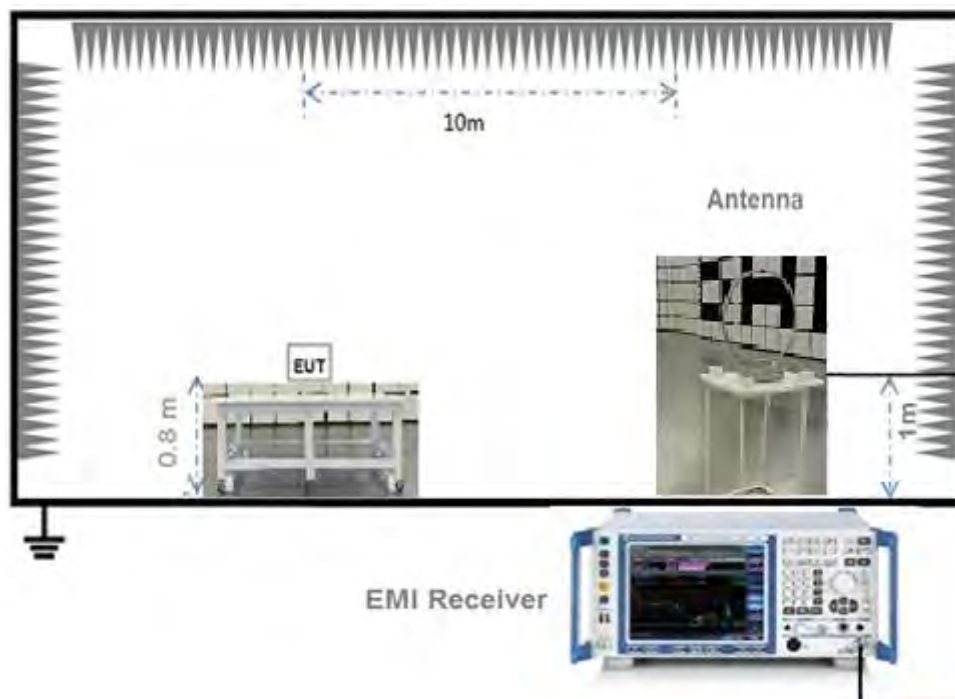
(Diagram 1)

4.5.2 For AC Power Supply Port Test



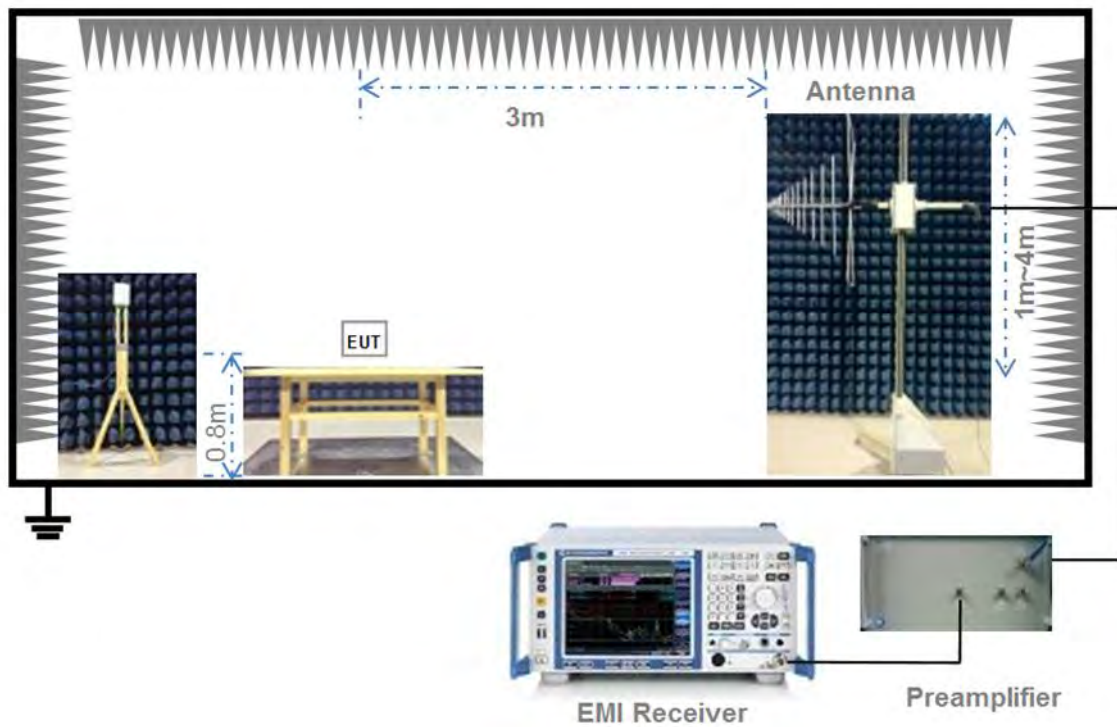
(Diagram 2)

4.5.3 For Radiated Test (Below 30 MHz)



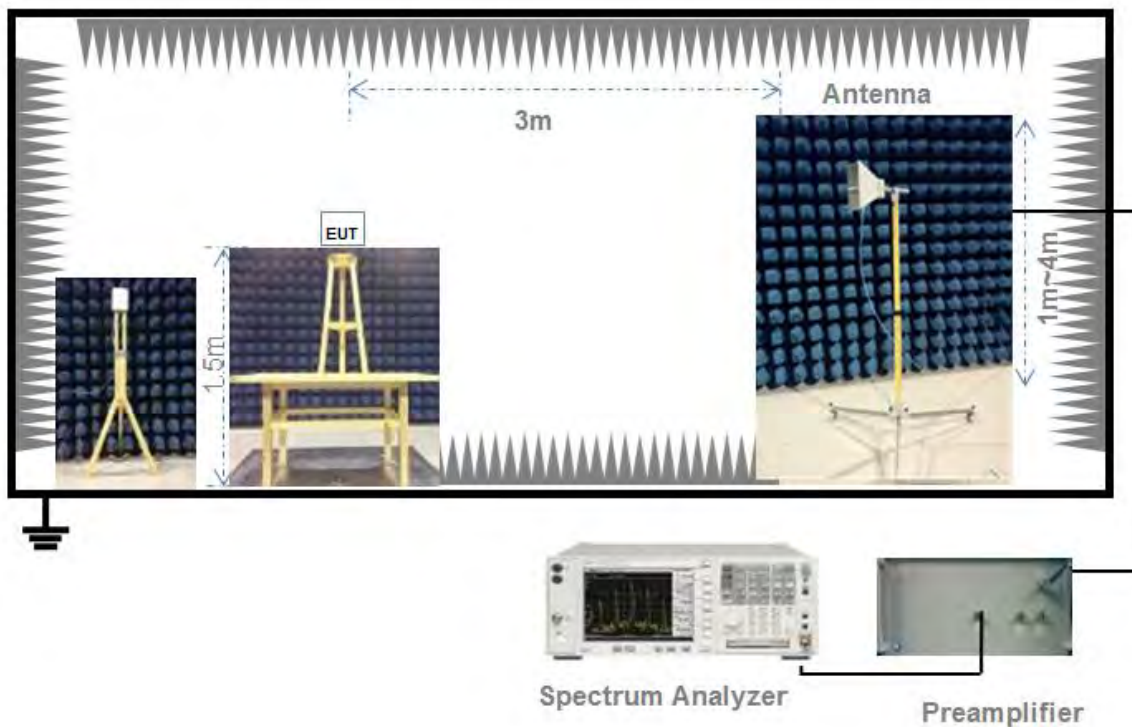
(Diagram 3)

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

Note:

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

5.7.2 Test Setup

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

5.7.3 Test Procedure

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

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

General Procedure for conducted measurements in restricted bands

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

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

where:

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

EIRP = equivalent isotropic radiated power in dBm

D = specified measurement distance in meters.

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

Quasi-Peak measurement procedure

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

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

Peak power measurement procedure

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

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

longer for low duty cycle applications).

Table 1—RBW as a function of frequency

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

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

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

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

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

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

Determining the applicable transmit antenna gain

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

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

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

Radiated spurious emission test

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

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

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

The power of the EUT transmitting frequency should be ignored.

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

Use the following spectrum analyzer settings:

Span = wide enough to fully capture the emission being measured

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

VBW $\geq$ RBW

Sweep = auto

Detector function = peak

Trace = max hold

5.7.4 Test Result

Please refer to ANNEX A.6.

5.8 Band Edge (Restricted-band band-edge)

5.8.1 Limit

FCC §15.209&15.247(d)

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

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

Duty Cycle

Test Mode	On Time (ms)	On+Off time (ms)	Duty Cycle	Duty Factor
802.11b	0.66	0.68	97.39%	0.11
802.11g	2.09	2.11	99.15%	0.04
802.11n-20 MHz	5.32	5.35	99.44%	0.02
802.11n-40 MHz	5.36	5.42	98.89%	0.05
802.11ax-20 MHz	5.41	5.44	99.56%	0.02
802.11ax-40 MHz	5.34	5.40	98.89%	0.05

Peak Power Test DataSISO-Antenna 2

802.11b Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	21.84	152.76	30	1000	Pass
Middle	21.76	149.97			Pass
High	21.81	151.71			Pass

802.11g Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	23.71	234.96	30	1000	Pass
Middle	24.07	255.27			Pass
High	23.82	240.99			Pass

802.11n-20 MHz Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	24.29	268.53	30	1000	Pass
Middle	24.25	266.07			Pass
High	24.33	271.02			Pass

802.11n-40 MHz Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	24.40	275.42	30	1000	Pass
Middle	24.45	278.61			Pass
High	24.46	279.25			Pass

802.11ax-20 MHz(SU) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	25.21	331.89	30	1000	Pass
Middle	25.60	363.08			Pass
High	25.65	367.28			Pass

802.11ax-40 MHz(SU) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	25.50	354.81	30	1000	Pass
Middle	25.64	366.44			Pass
High	25.64	366.44			Pass

802.11ax-20 MHz(RU26) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	21.16	130.62	30	1000	Pass
Middle	20.62	115.35			Pass
High	20.60	114.82			Pass

802.11ax-40 MHz(RU26) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	20.18	104.23	30	1000	Pass
Middle	20.52	112.72			Pass
High	20.11	102.57			Pass

SISO-Antenna 3

802.11b Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	21.66	146.55	30	1000	Pass
Middle	21.51	141.58			Pass
High	21.61	144.88			Pass

802.11g Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	23.59	228.56	30	1000	Pass
Middle	23.87	243.78			Pass
High	23.48	222.84			Pass

802.11n-20 MHz Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	24.16	260.62	30	1000	Pass
Middle	24.11	257.63			Pass
High	24.16	260.62			Pass

802.11n-40 MHz Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	24.16	260.62	30	1000	Pass
Middle	24.11	257.63			Pass
High	24.16	260.62			Pass

802.11ax-20 MHz(SU) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	25.26	335.74	30	1000	Pass
Middle	25.53	357.27			Pass
High	25.65	367.28			Pass

802.11ax-40 MHz(SU) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	25.43	349.14	30	1000	Pass
Middle	25.58	361.41			Pass
High	25.61	363.92			Pass

802.11ax-20 MHz(RU26) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	20.96	124.74	30	1000	Pass
Middle	20.62	115.35			Pass
High	20.40	109.65			Pass

802.11ax-40 MHz(RU26) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	20.58	114.29	30	1000	Pass
Middle	20.92	123.59			Pass
High	20.41	109.90			Pass

MIMO-Antenna 2

802.11b Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	17.25	53.09	30	1000	Pass
Middle	17.36	54.45			Pass
High	17.28	53.46			Pass

802.11g Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	18.15	65.31	30	1000	Pass
Middle	18.45	69.98			Pass
High	18.01	63.24			Pass

802.11n-20 MHz Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	17.94	62.23	30	1000	Pass
Middle	18.15	65.31			Pass
High	18.05	63.83			Pass

802.11n-40 MHz Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	16.67	46.45	30	1000	Pass
Middle	16.39	43.55			Pass
High	16.15	41.21			Pass

802.11ax-20 MHz(SU) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	18.52	71.12	30	1000	Pass
Middle	17.95	62.37			Pass
High	18.01	63.24			Pass

802.11ax-40 MHz(SU) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	16.45	44.16	30	1000	Pass
Middle	16.60	45.71			Pass
High	16.45	44.16			Pass

802.11ax-20 MHz(RU26) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	17.86	61.09	30	1000	Pass
Middle	17.72	59.16			Pass
High	17.60	57.54			Pass

802.11ax-40 MHz(RU26) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	17.38	54.70	30	1000	Pass
Middle	17.42	55.21			Pass
High	17.01	50.23			Pass

MIMO-Antenna 3

802.11b Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	17.36	54.45	30	1000	Pass
Middle	17.54	56.75			Pass
High	17.46	55.72			Pass

802.11g Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	18.39	69.02	30	1000	Pass
Middle	18.28	67.30			Pass
High	18.29	67.45			Pass

802.11n-20 MHz Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	18.05	63.83	30	1000	Pass
Middle	18.16	65.46			Pass
High	18.18	65.77			Pass

802.11n-40 MHz Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	16.84	48.31	30	1000	Pass
Middle	16.53	44.98			Pass
High	16.66	46.34			Pass

802.11ax-20 MHz(SU) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	19.03	79.98	30	1000	Pass
Middle	18.73	74.64			Pass
High	18.82	76.21			Pass

802.11ax-40 MHz(SU) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	16.79	47.75	30	1000	Pass
Middle	16.88	48.75			Pass
High	16.96	49.66			Pass

802.11ax-20 MHz(RU26) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	17.56	57.02	30	1000	Pass
Middle	17.22	52.72			Pass
High	17.00	50.12			Pass

802.11ax-40 MHz(RU26) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	17.38	54.70	30	1000	Pass
Middle	17.52	56.49			Pass
High	17.51	56.36			Pass

MIMO**802.11b Mode:**

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	20.32	107.54	30	1000	Pass
Middle	20.46	111.20			Pass
High	20.38	109.18			Pass

802.11g Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	21.28	134.34	30	1000	Pass
Middle	21.38	137.28			Pass
High	21.16	130.69			Pass

802.11n-20 MHz Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	21.01	126.06	30	1000	Pass
Middle	21.17	130.78			Pass
High	21.13	129.59			Pass

802.11n-40 MHz Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	19.77	94.76	30	1000	Pass
Middle	19.47	88.53			Pass
High	19.42	87.55			Pass

802.11ax-20 MHz(SU) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	21.79	151.10	30	1000	Pass
Middle	21.37	137.02			Pass
High	21.44	139.45			Pass

802.11ax-40 MHz(SU) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	19.63	91.91	30	1000	Pass
Middle	19.75	94.46			Pass
High	19.72	93.82			Pass

802.11ax-20 MHz(RU26) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	20.72	118.11	30	1000	Pass
Middle	20.49	111.88			Pass
High	20.32	107.66			Pass

802.11ax-40 MHz(RU26) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	20.39	109.40	30	1000	Pass
Middle	20.48	111.70			Pass
High	20.28	106.60			Pass

Average Power Test DataSISO-Antenna 2

802.11b Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	18.86	76.91	30	1000	Pass
Middle	18.79	75.68			Pass
High	18.97	78.89			Pass

802.11g Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	17.93	62.09	30	1000	Pass
Middle	17.83	60.67			Pass
High	17.95	62.37			Pass

802.11n-20 MHz Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	17.94	62.23	30	1000	Pass
Middle	17.96	62.52			Pass
High	17.97	62.66			Pass

802.11n-40 MHz Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	17.89	61.52	30	1000	Pass
Middle	17.93	62.09			Pass
High	17.91	61.80			Pass

802.11ax-20 MHz(SU) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	17.84	60.81	30	1000	Pass
Middle	17.93	62.09			Pass
High	17.85	60.95			Pass

802.11ax-40 MHz(SU) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	17.86	61.09	30	1000	Pass
Middle	17.94	62.23			Pass
High	17.95	62.37			Pass

802.11ax-20 MHz(RU26) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	14.60	28.84	30	1000	Pass
Middle	14.97	31.41			Pass
High	14.27	26.73			Pass

802.11ax-40 MHz(RU26) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	14.55	28.51	30	1000	Pass
Middle	14.65	29.17			Pass
High	14.19	26.24			Pass

SISO-Antenna 3

802.11b Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	18.62	72.78	30	1000	Pass
Middle	18.51	70.96			Pass
High	18.63	72.95			Pass

802.11g Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	17.74	59.43	30	1000	Pass
Middle	17.99	62.95			Pass
High	17.66	58.34			Pass

802.11n-20 MHz Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	17.84	60.81	30	1000	Pass
Middle	17.67	58.48			Pass
High	17.86	61.09			Pass

802.11n-40 MHz Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	17.73	59.29	30	1000	Pass
Middle	17.82	60.53			Pass
High	17.80	60.26			Pass

802.11ax-20 MHz(SU) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	17.52	56.49	30	1000	Pass
Middle	17.81	60.39			Pass
High	17.99	62.95			Pass

802.11ax-40 MHz(SU) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	17.73	59.29	30	1000	Pass
Middle	17.89	61.52			Pass
High	17.92	61.94			Pass

802.11ax-20 MHz(RU26) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	14.90	30.90	30	1000	Pass
Middle	14.77	29.99			Pass
High	14.37	27.35			Pass

802.11ax-40 MHz(RU26) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	14.65	29.17	30	1000	Pass
Middle	14.90	30.90			Pass
High	14.49	28.12			Pass

MIMO-Antenna 2

802.11b Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	14.59	28.77	30	1000	Pass
Middle	14.80	30.20			Pass
High	14.87	30.69			Pass

802.11g Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	14.75	29.85	30	1000	Pass
Middle	14.88	30.76			Pass
High	14.84	30.48			Pass

802.11n-20 MHz Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	14.87	30.69	30	1000	Pass
Middle	14.79	30.13			Pass
High	14.88	30.76			Pass

802.11n-40 MHz Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	14.90	30.90	30	1000	Pass
Middle	14.87	30.69			Pass
High	14.87	30.69			Pass

802.11ax-20 MHz(SU) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	14.79	30.13	30	1000	Pass
Middle	14.81	30.27			Pass
High	14.86	30.62			Pass

802.11ax-40 MHz(SU) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	14.86	30.62	30	1000	Pass
Middle	14.82	30.34			Pass
High	14.91	30.97			Pass

802.11ax-20 MHz(RU26) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	11.80	15.14	30	1000	Pass
Middle	11.67	14.69			Pass
High	11.47	14.03			Pass

802.11ax-40 MHz(RU26) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	11.65	14.62	30	1000	Pass
Middle	11.75	14.96			Pass
High	11.19	13.15			Pass

MIMO-Antenna 3

802.11b Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	14.78	30.06	30	1000	Pass
Middle	14.89	30.83			Pass
High	14.86	30.62			Pass

802.11g Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	14.73	29.72	30	1000	Pass
Middle	14.97	31.41			Pass
High	14.91	30.97			Pass

802.11n-20 MHz Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	14.86	30.62	30	1000	Pass
Middle	14.87	30.69			Pass
High	14.85	30.55			Pass

802.11n-40 MHz Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	14.88	30.76	30	1000	Pass
Middle	14.95	31.26			Pass
High	14.86	30.62			Pass

802.11ax-20 MHz(SU) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	14.78	30.06	30	1000	Pass
Middle	14.81	30.27			Pass
High	14.79	30.13			Pass

802.11ax-40 MHz(SU) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	14.82	30.34	30	1000	Pass
Middle	14.94	31.19			Pass
High	14.89	30.83			Pass

802.11ax-20 MHz(RU26) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	11.70	14.79	30	1000	Pass
Middle	11.67	14.69			Pass
High	11.07	12.79			Pass

802.11ax-40 MHz(RU26) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	11.45	13.96	30	1000	Pass
Middle	11.60	14.45			Pass
High	11.69	14.76			Pass

MIMO**802.11b Mode:**

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	17.70	58.83	30	1000	Pass
Middle	17.86	61.03			Pass
High	17.88	61.31			Pass

802.11g Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	17.75	59.57	30	1000	Pass
Middle	17.94	62.17			Pass
High	17.89	61.45			Pass

802.11n-20 MHz Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	17.88	61.31	30	1000	Pass
Middle	17.84	60.82			Pass
High	17.88	61.31			Pass

802.11n-40 MHz Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	17.90	61.66	30	1000	Pass
Middle	17.92	61.95			Pass
High	17.88	61.31			Pass

802.11ax-20 MHz(SU) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	17.80	60.19	30	1000	Pass
Middle	17.82	60.54			Pass
High	17.84	60.75			Pass

802.11ax-40 MHz(SU) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	17.85	60.96	30	1000	Pass
Middle	17.89	61.53			Pass
High	17.91	61.81			Pass

802.11ax-20 MHz(RU26) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	14.76	29.93	30	1000	Pass
Middle	14.68	29.38			Pass
High	14.28	26.82			Pass

802.11ax-40 MHz(RU26) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	14.56	28.59	30	1000	Pass
Middle	14.69	29.42			Pass
High	14.46	27.91			Pass

A.2 Occupied Bandwidth

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

Note ²: All antenna were pre tested, but only the worst case has been reported in this report.

Test Data

Antenna 3

802.11b Mode:

Channel	6 dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limits (kHz)
Low	7.800000	13.001000	≥500
Middle	8.300000	13.012000	≥500
High	8.200000	13.037000	≥500

802.11g Mode:

Channel	6 dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limits (kHz)
Low	16.100000	16.645000	≥500
Middle	16.300000	16.664000	≥500
High	16.400000	16.613000	≥500

802.11n-20MHz Mode:

Channel	6 dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limits (kHz)
Low	17.400000	17.831000	≥500
Middle	16.800000	17.812000	≥500
High	17.000000	17.792000	≥500

802.11n-40MHz Mode:

Channel	6 dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limits (kHz)
Low	35.400000	36.111000	≥500
Middle	36.200000	36.104000	≥500
High	35.800000	36.097000	≥500

802.11ax-20 MHz(SU) Mode:

Channel	6 dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limits (kHz)
Low	18.500000	19.031000	≥500
Middle	18.900000	19.052000	≥500
High	18.500000	19.018000	≥500

802.11ax-40 MHz(SU) Mode:

Channel	6 dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limits (kHz)
Low	36.600000	37.772000	≥500
Middle	37.500000	37.726000	≥500
High	37.500000	37.739000	≥500

Test Plots

Antenna 3

6 dB Bandwidth

802.11b LOW CHANNEL



802.11b MIDDLE CHANNEL



802.11b HIGH CHANNEL



802.11g LOW CHANNEL



802.11g MIDDLE CHANNEL



802.11g HIGH CHANNEL



802.11n-20 MHz LOW CHANNEL



802.11n-20 MHz MIDDLE CHANNEL



802.11n-20 MHz HIGH CHANNEL



802.11n-40 MHz LOW CHANNEL



802.11n-40 MHz MIDDLE CHANNEL



802.11n-40 MHz HIGH CHANNEL



802.11ax-20 MHz(SU) LOW CHANNEL



802.11ax-20 MHz(SU) MIDDLE CHANNEL



802.11ax-20 MHz(SU) HIGH CHANNEL



802.11ax-40 MHz(SU) LOW CHANNEL



802.11ax-40 MHz(SU) MIDDLE CHANNEL



802.11ax-40 MHz(SU) HIGH CHANNEL



99% Bandwidth

802.11b LOW CHANNEL



802.11b MIDDLE CHANNEL



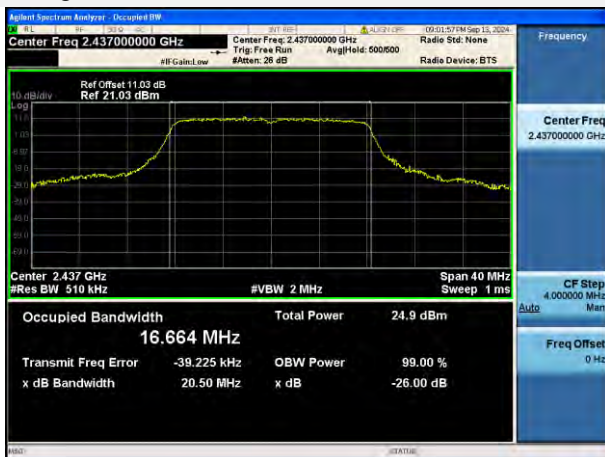
802.11b HIGH CHANNEL



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



802.11ax-20 MHz(SU) LOW CHANNEL



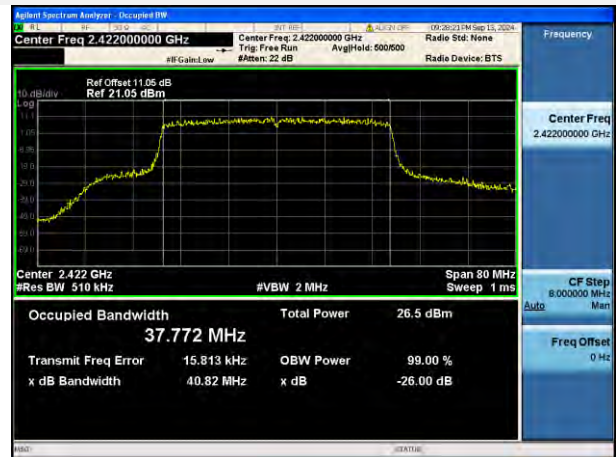
802.11ax-20 MHz(SU) MIDDLE CHANNEL



802.11ax-20 MHz(SU) HIGH CHANNEL



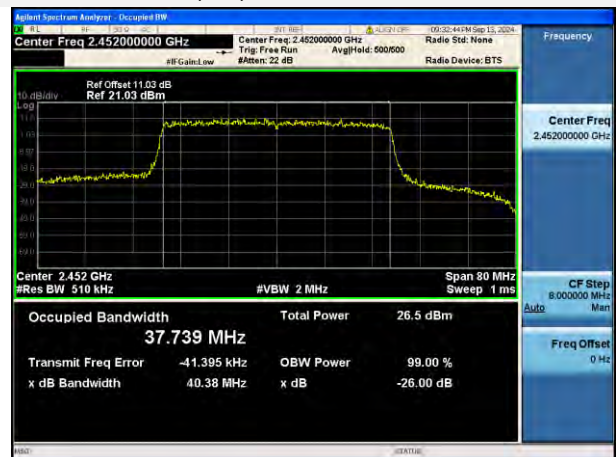
802.11ax-40 MHz(SU) LOW CHANNEL



802.11ax-40 MHz(SU) MIDDLE CHANNEL



802.11ax-40 MHz(SU) HIGH CHANNEL



A.3 Conducted Spurious Emissions

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

Note ²: All antenna were pre tested, but only the worst case has been reported in this report.

Test Data

Antenna 3

802.11b Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-39.81	10.03	-9.98	Pass
Middle	-40.31	9.42	-10.58	Pass
High	-40.34	9.52	-10.48	Pass

802.11g Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-40.06	7.43	-12.57	Pass
Middle	-41.08	7.63	-12.38	Pass
High	-41.25	7.47	-12.53	Pass

802.11n-20MHz Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-40.50	7.61	-12.40	Pass
Middle	-40.50	7.92	-12.08	Pass
High	-39.20	7.31	-12.69	Pass

802.11n-40MHz Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-40.03	4.60	-15.40	Pass
Middle	-39.68	4.14	-15.86	Pass
High	-39.64	3.95	-16.05	Pass

802.11ax-20 MHz(SU) Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-40.09	7.36	-12.64	Pass
Middle	-40.07	7.69	-12.31	Pass
High	-40.19	7.07	-12.93	Pass

802.11ax-40 MHz(SU) Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-40.23	4.56	-15.44	Pass
Middle	-39.14	4.76	-15.24	Pass
High	-40.43	4.95	-15.05	Pass

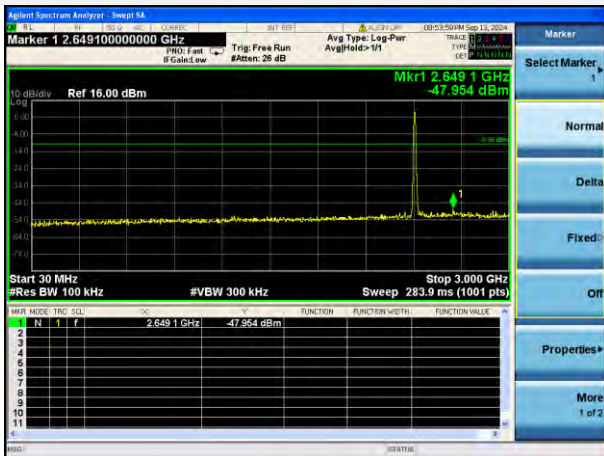
Test Plots

Antenna 3

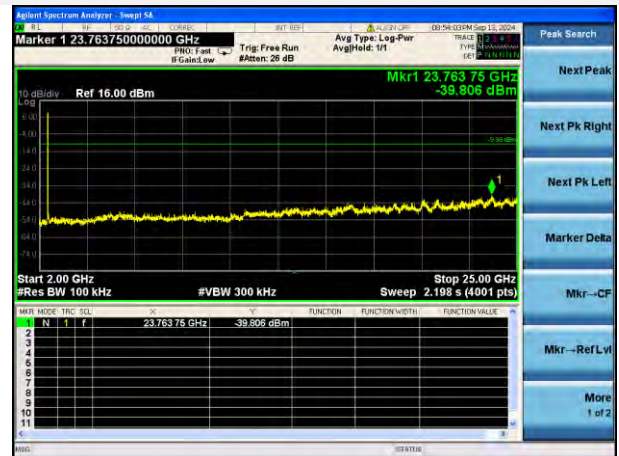
802.11b LOW CHANNEL CARRIER LEVEL



802.11b LOW CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



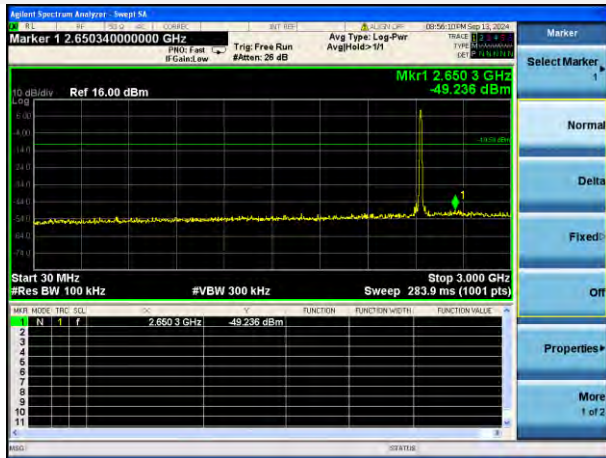
802.11b LOW CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



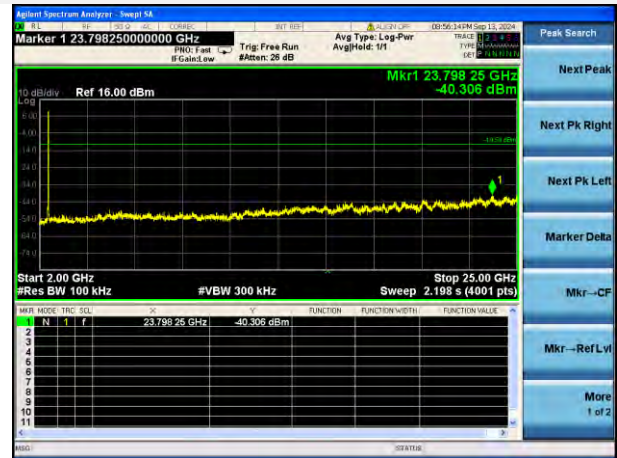
802.11b MIDDLE CHANNEL CARRIER LEVEL



802.11b MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



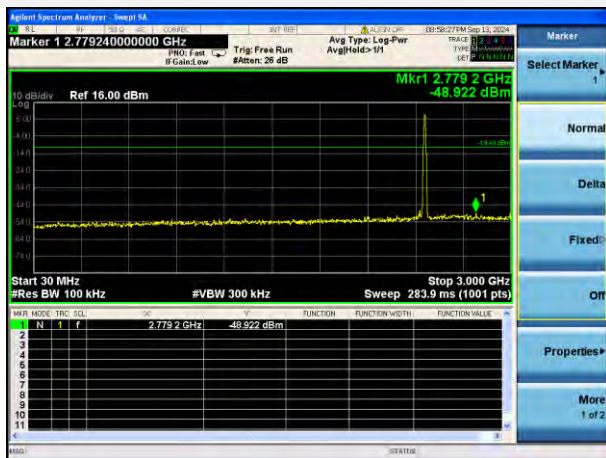
802.11b MIDDLE CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



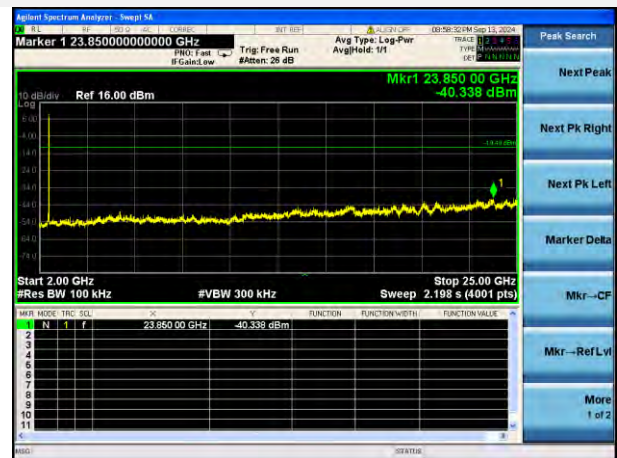
802.11b HIGH CHANNEL CARRIER LEVEL



802.11b HIGH CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



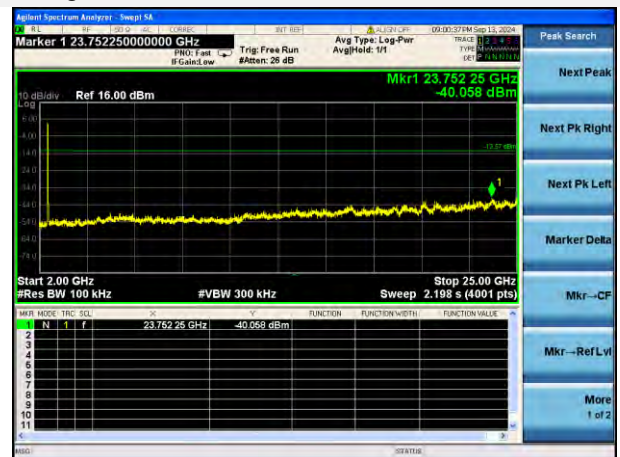
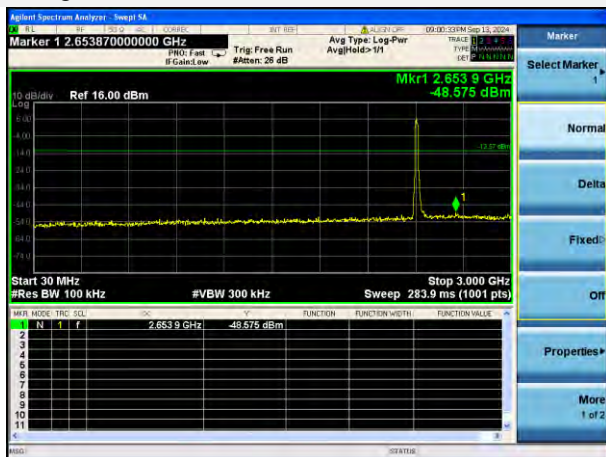
802.11b HIGH CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



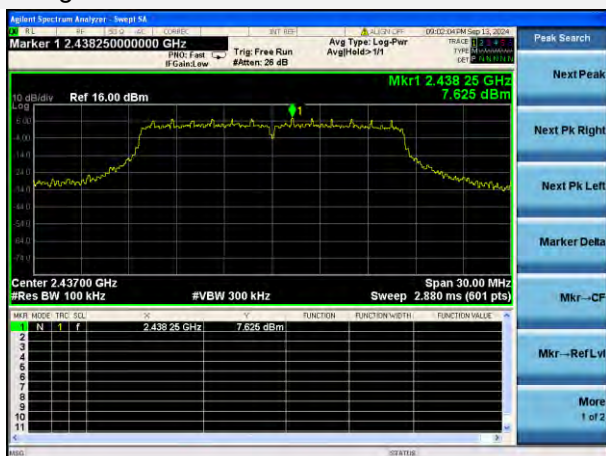
802.11g LOW CHANNEL CARRIER LEVEL



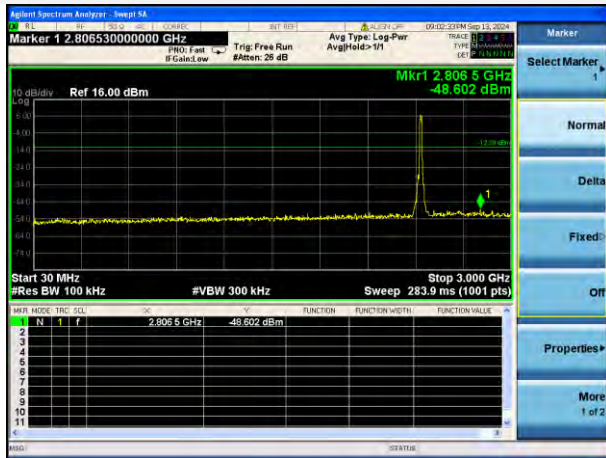
802.11g LOW CHANNEL, SPURIOUS 30 MHz ~ 3 GHz 802.11g LOW CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



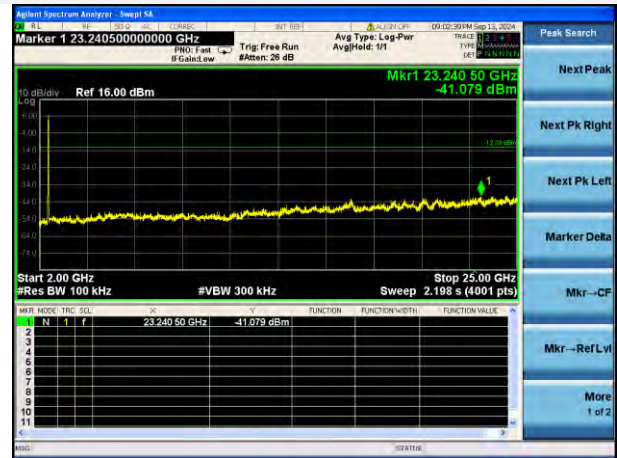
802.11g MIDDLE CHANNEL CARRIER LEVEL



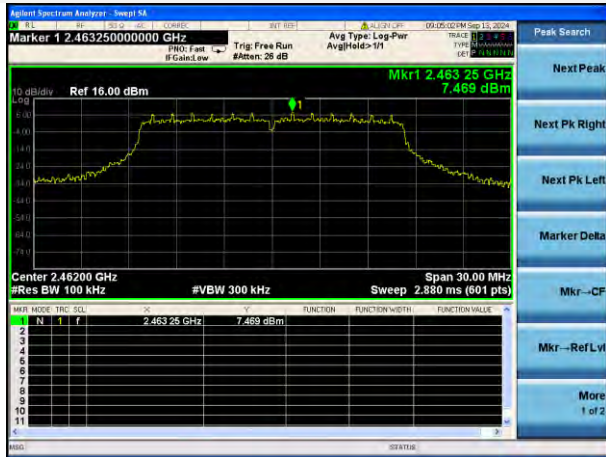
802.11g MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



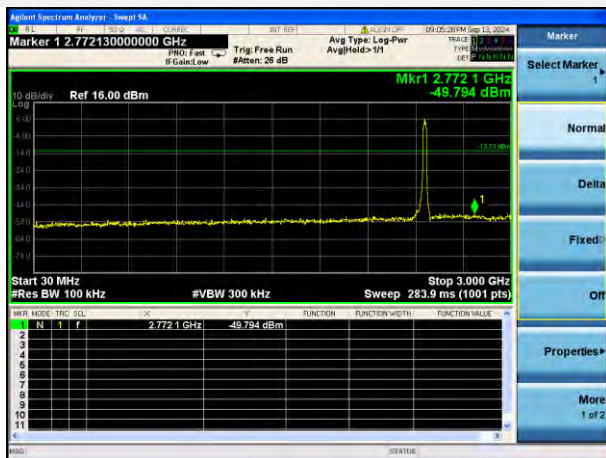
802.11g MIDDLE CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



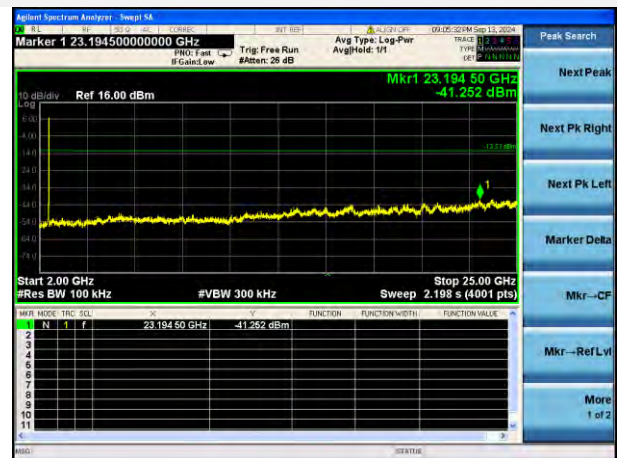
802.11g HIGH CHANNEL CARRIER LEVEL



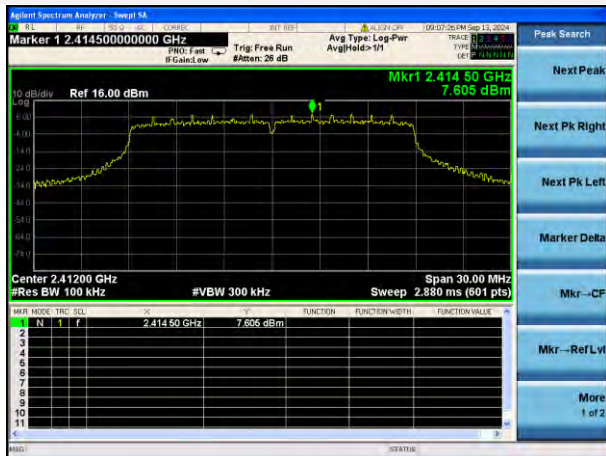
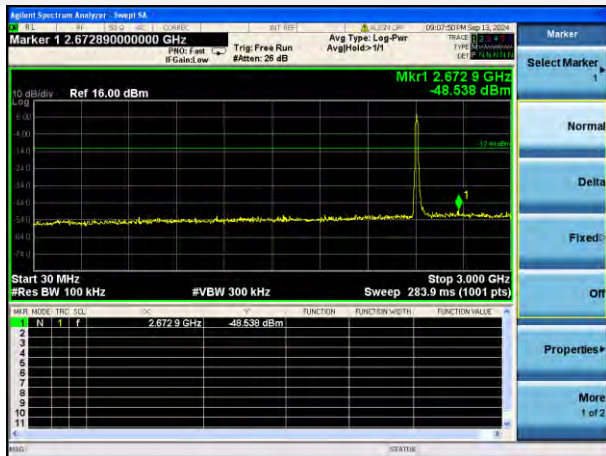
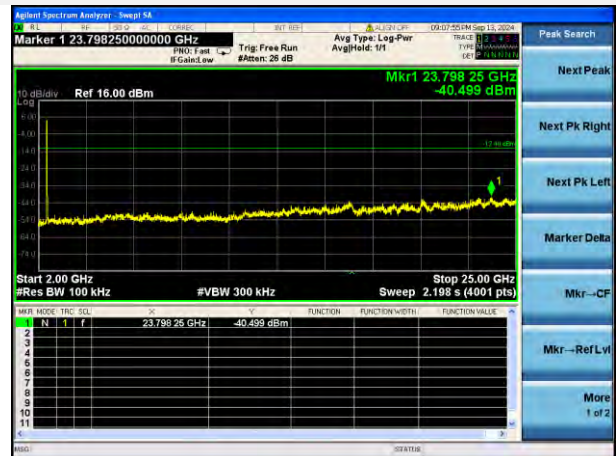
802.11g HIGH CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



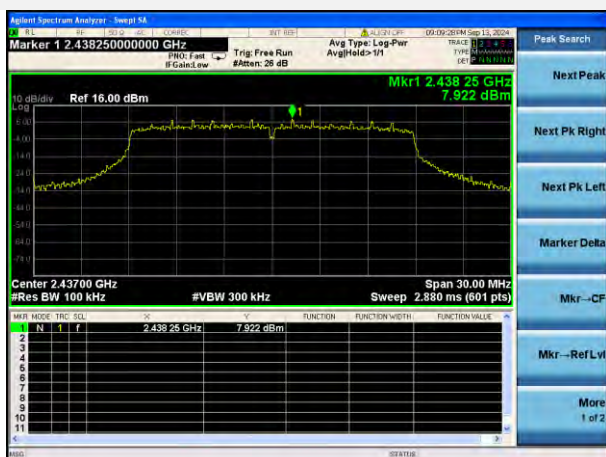
802.11g HIGH CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



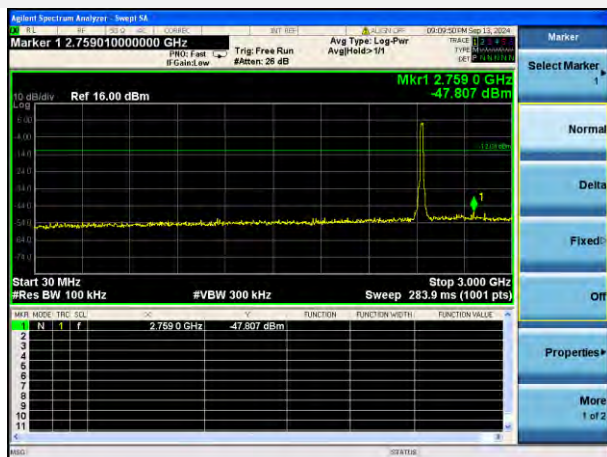
802.11n-20 MHz LOW CHANNEL CARRIER LEVEL

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

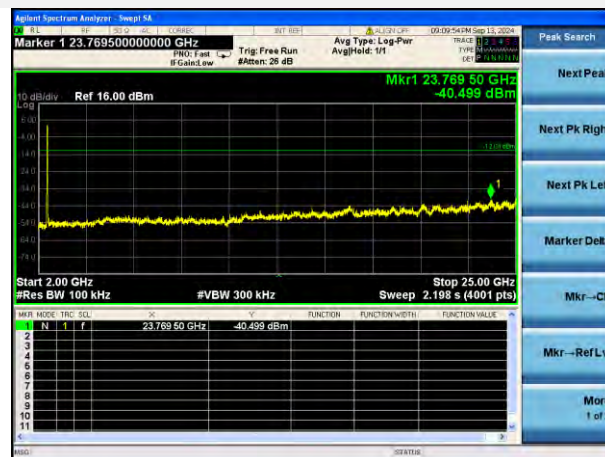
802.11n-20 MHz MIDDLE CHANNEL CARRIER LEVEL



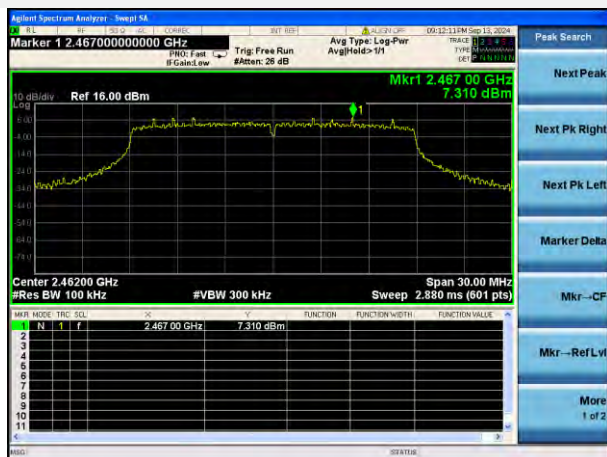
802.11n-20 MHz MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



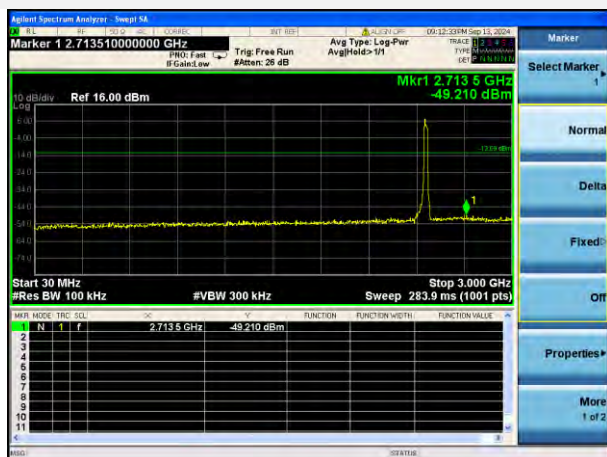
802.11n-20 MHz MIDDLE CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



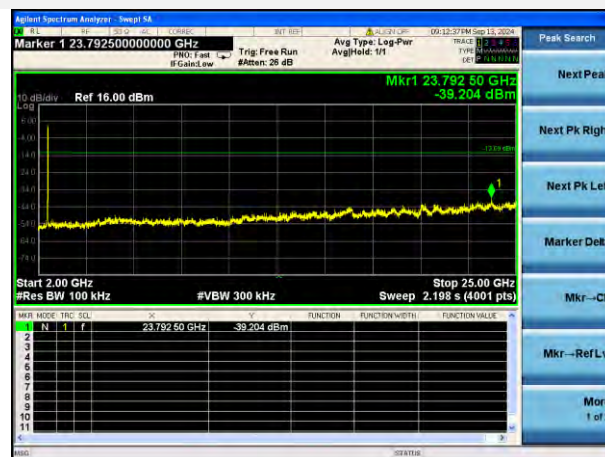
802.11n-20 MHz HIGH CHANNEL CARRIER LEVEL



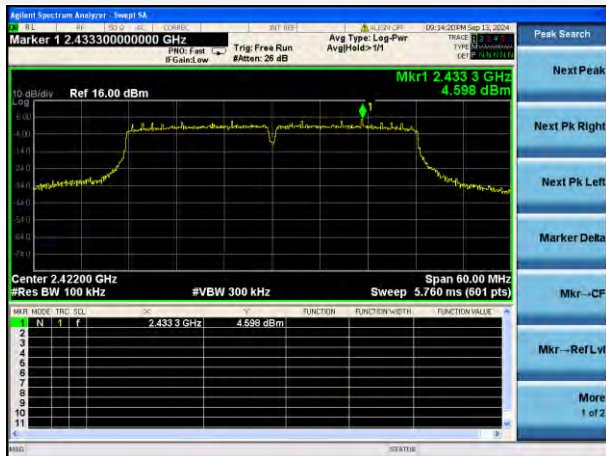
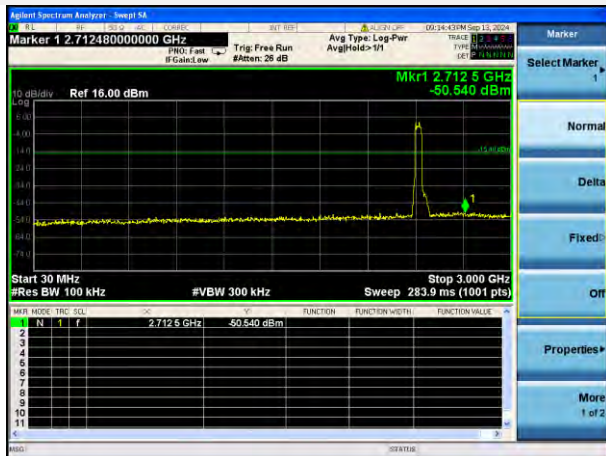
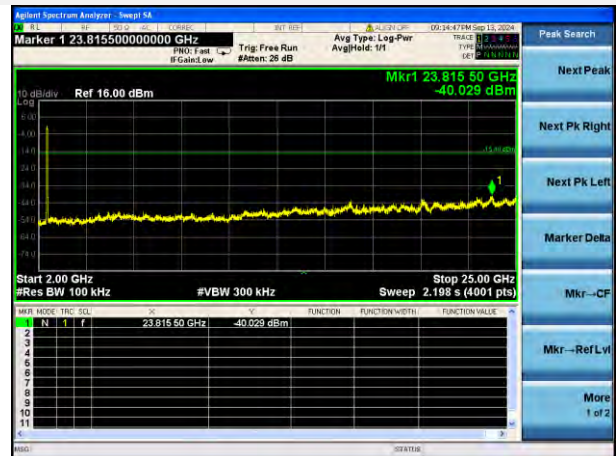
802.11n-20 MHz HIGH CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



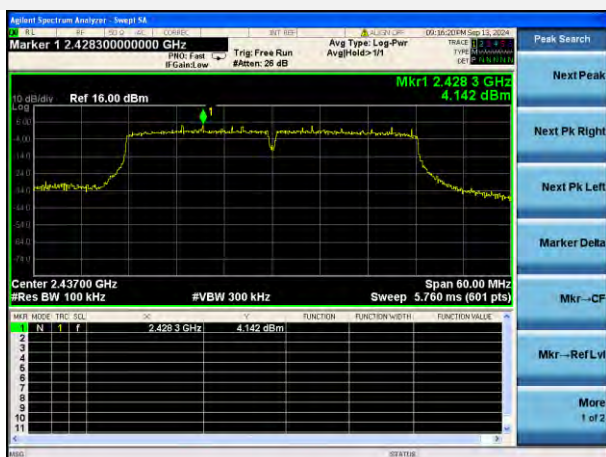
802.11n-20 MHz HIGH CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



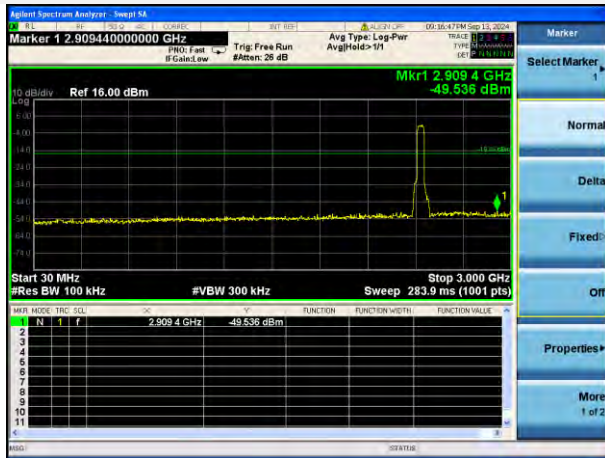
802.11n-40 MHz LOW CHANNEL CARRIER LEVEL

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

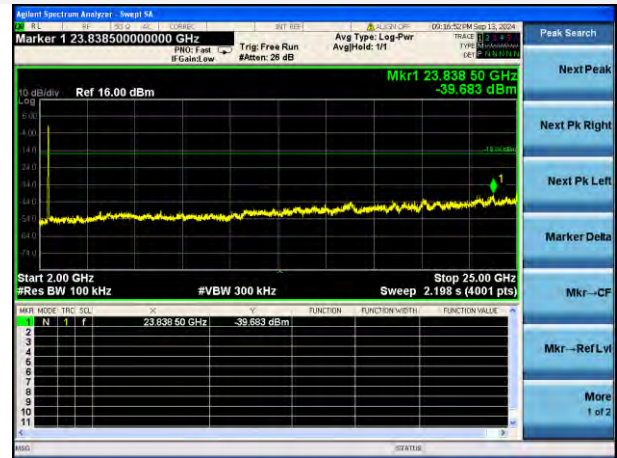
802.11n-40 MHz MIDDLE CHANNEL CARRIER LEVEL



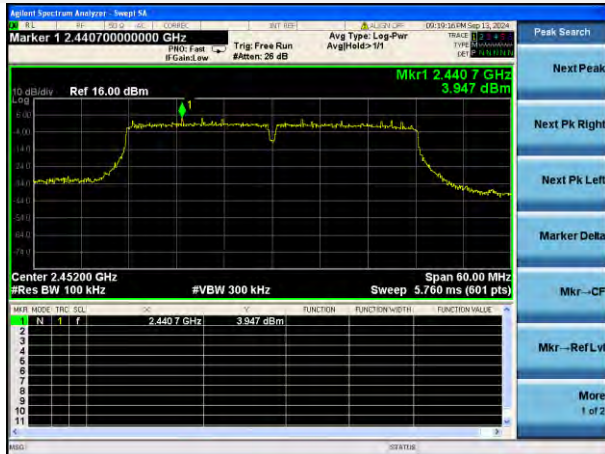
802.11n-40 MHz MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



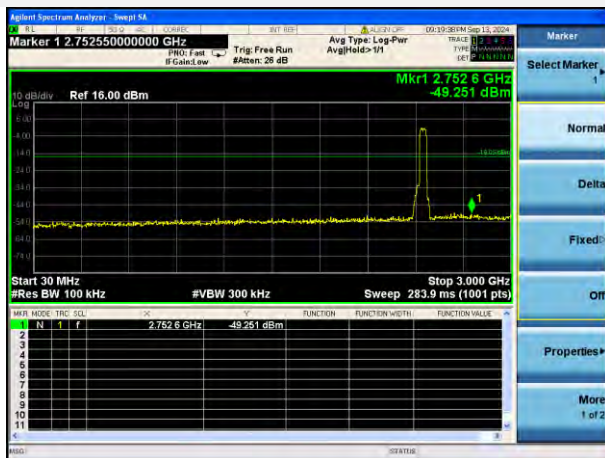
802.11n-40 MHz MIDDLE CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



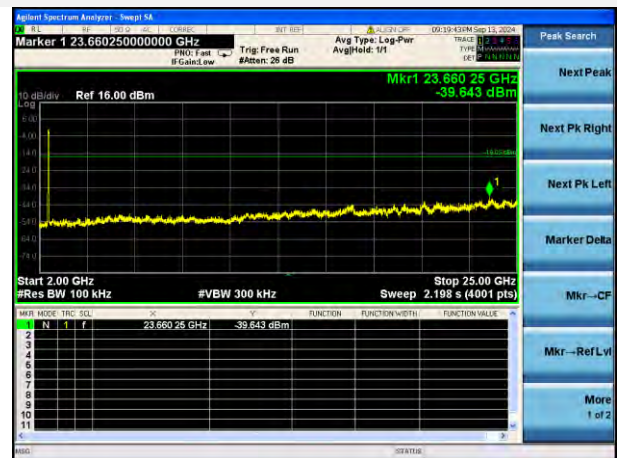
802.11n-40 MHz HIGH CHANNEL CARRIER LEVEL



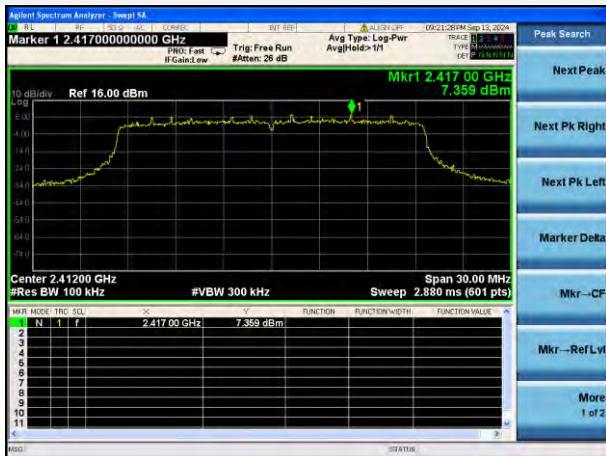
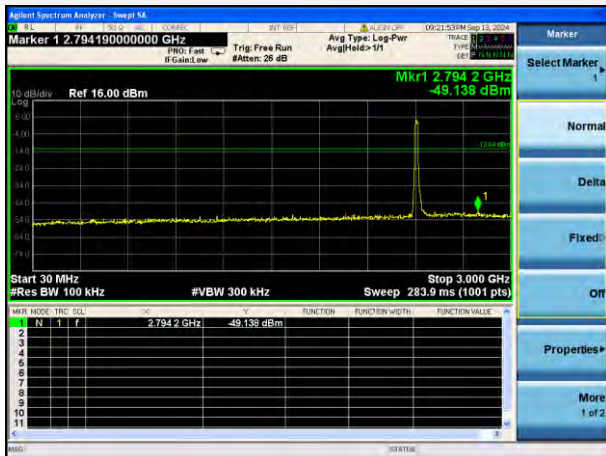
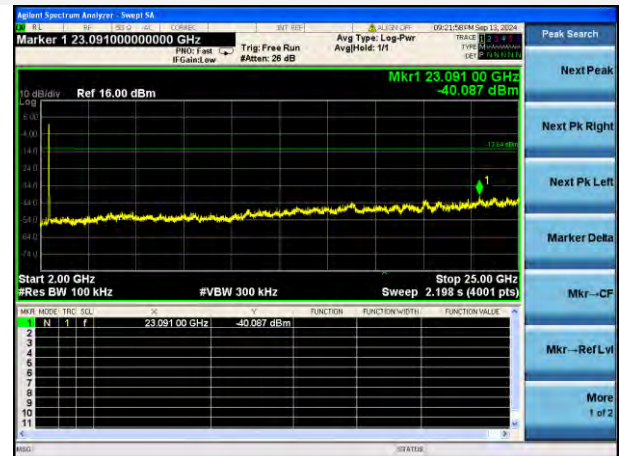
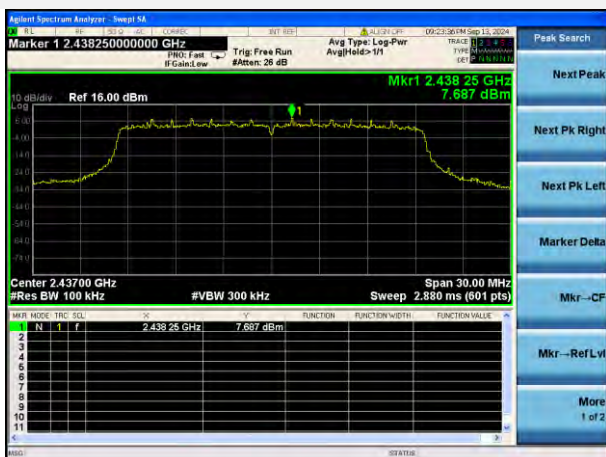
802.11n-40 MHz HIGH CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



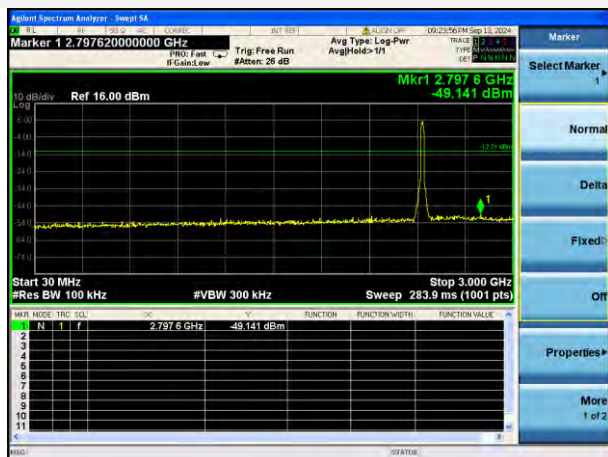
802.11n-40 MHz HIGH CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



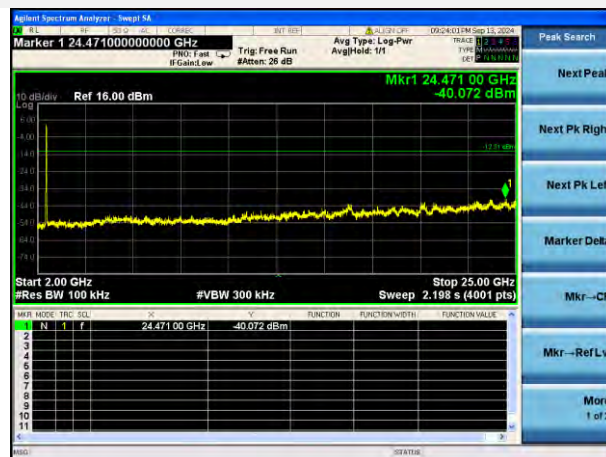
802.11ax-20 MHz(SU) LOW CHANNEL CARRIER LEVEL

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

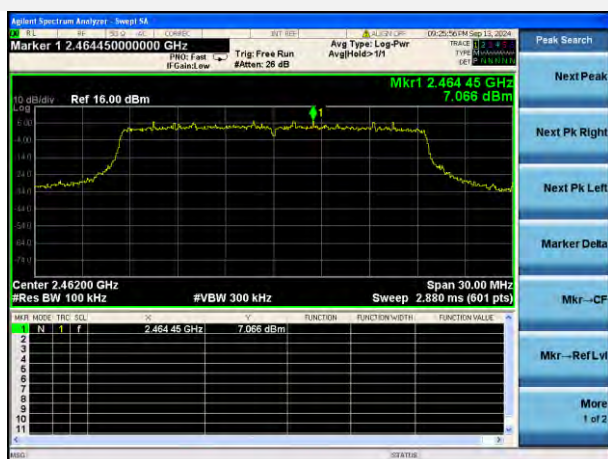
802.11ax-20 MHz(SU) MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



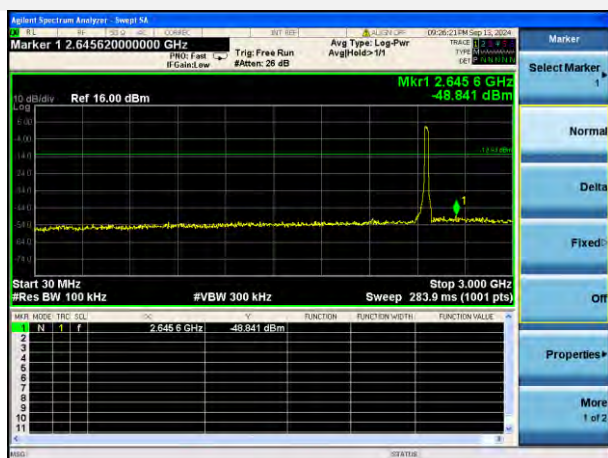
802.11ax-20 MHz(SU) MIDDLE CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



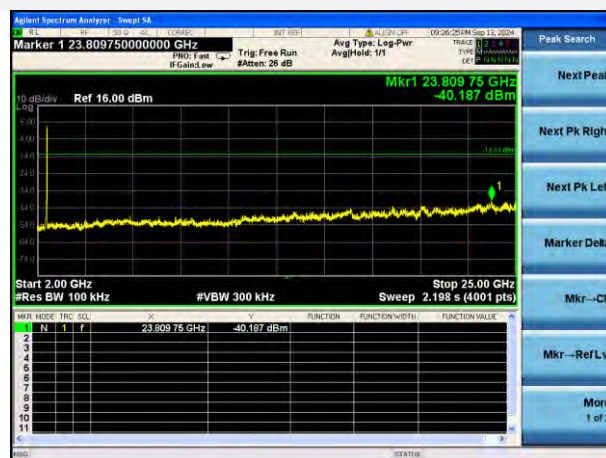
802.11ax-20 MHz(SU) HIGH CHANNEL CARRIER LEVEL



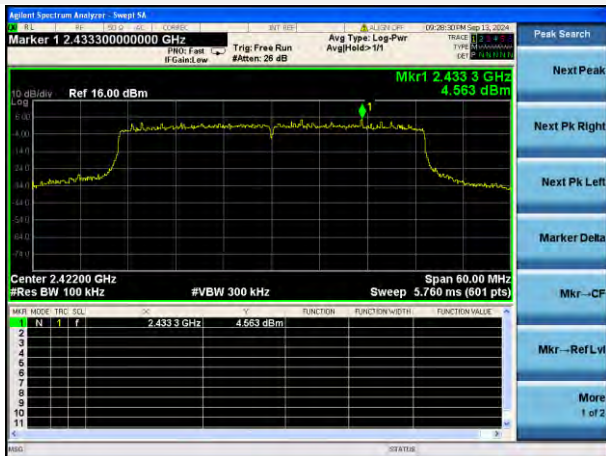
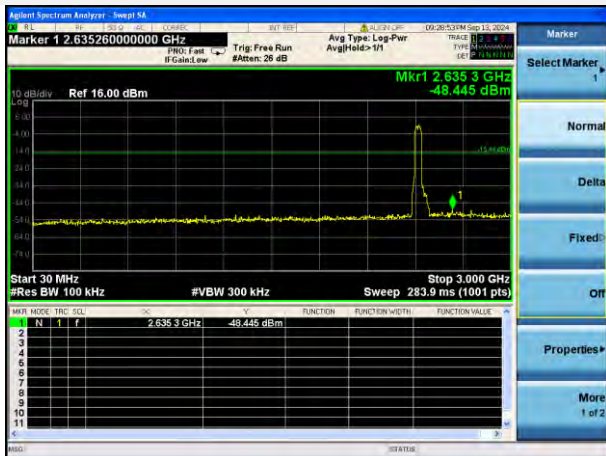
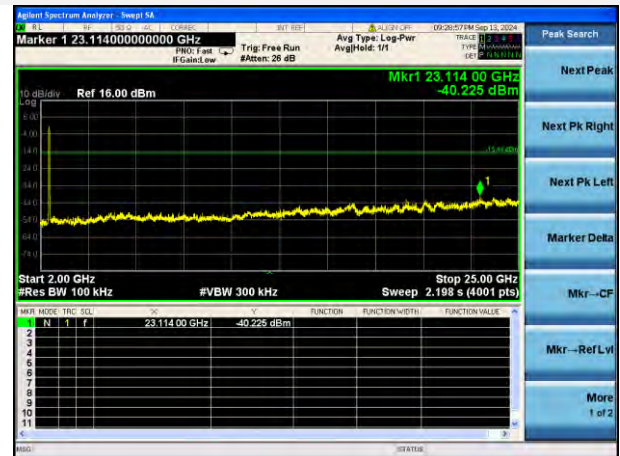
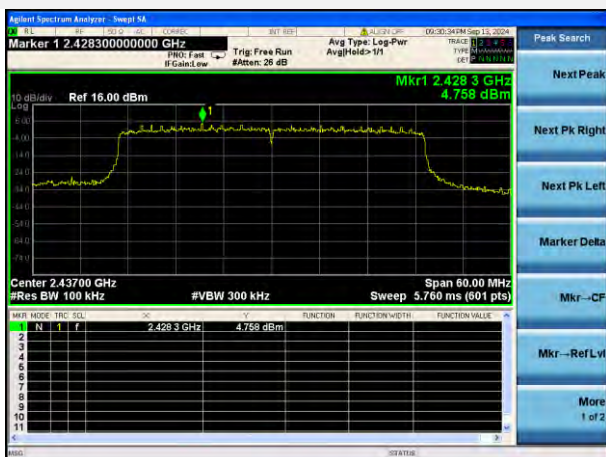
802.11ax-20 MHz(SU) HIGH CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



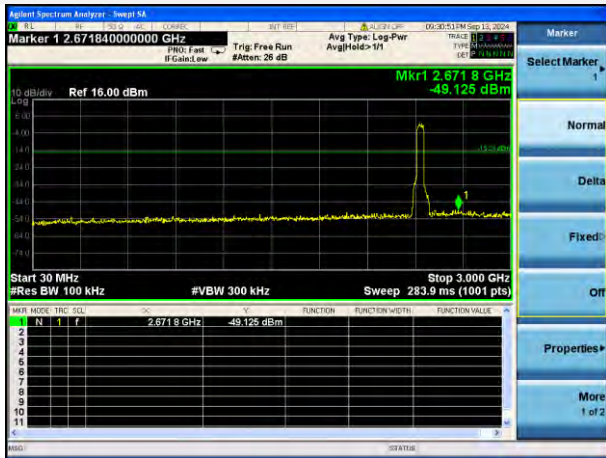
802.11ax-20 MHz(SU) HIGH CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



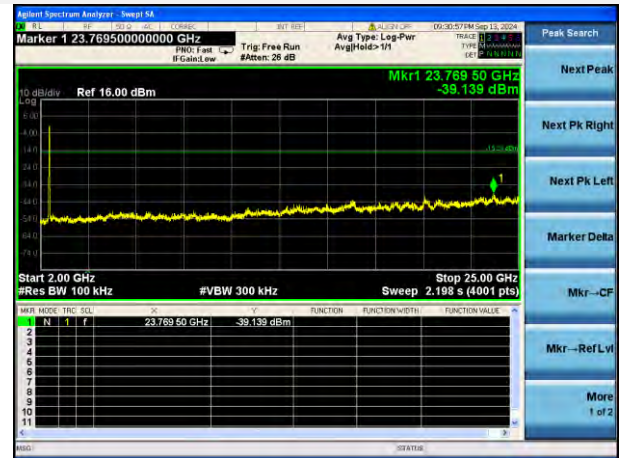
802.11ax-40 MHz(SU) LOW CHANNEL CARRIER LEVEL

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

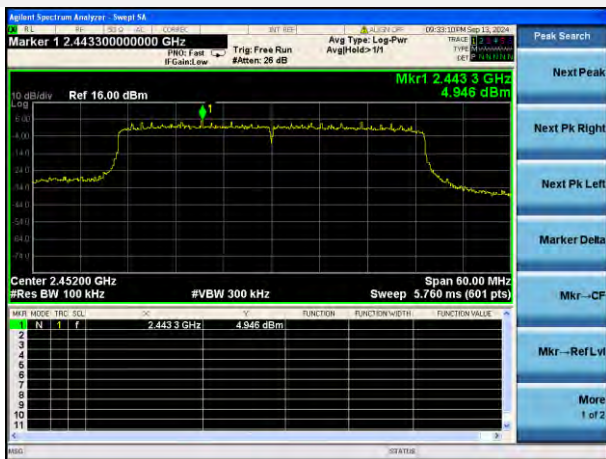
802.11ax-40 MHz(SU) MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



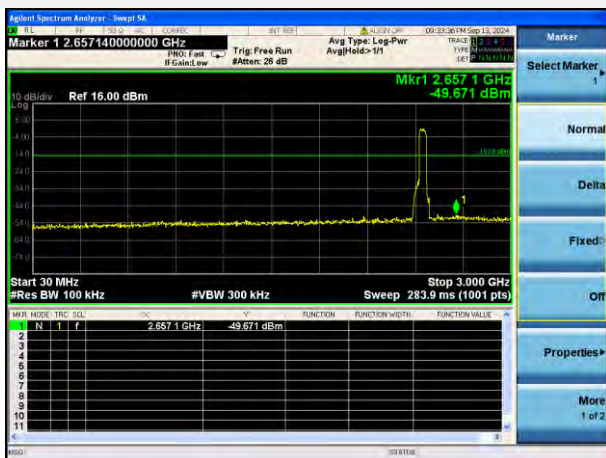
802.11ax-40 MHz(SU) MIDDLE CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



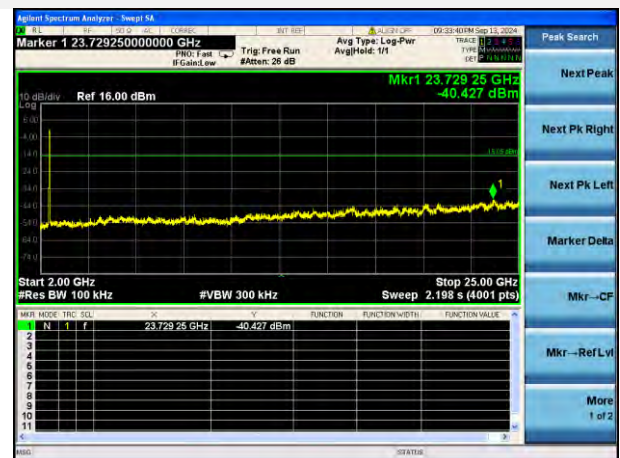
802.11ax-40 MHz(SU) HIGH CHANNEL CARRIER LEVEL



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



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



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

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

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

Note³: All antenna were pre tested, but only the worst case has been reported in this report.

Test Data

Antenna 3

802.11b Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-40.29	10.03	-9.98	Pass
High Channel	-47.30	9.52	-10.48	Pass

802.11g Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-29.21	7.43	-12.57	Pass
High Channel	-41.11	7.47	-12.53	Pass

802.11n-20 MHz Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-27.96	7.61	-12.40	Pass
High Channel	-40.37	7.31	-12.69	Pass

802.11n-40 MHz Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-29.64	4.60	-15.40	Pass
High Channel	-38.11	3.95	-16.05	Pass

802.11ax-20 MHz(SU) Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-27.04	7.36	-12.64	Pass
High Channel	-37.44	7.07	-12.93	Pass

802.11ax-40 MHz(SU) Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-27.67	4.56	-15.44	Pass
High Channel	-38.55	4.95	-15.05	Pass

Test Plots

Antenna 3

802.11b LOW CHANNEL, CARRIER LEVEL



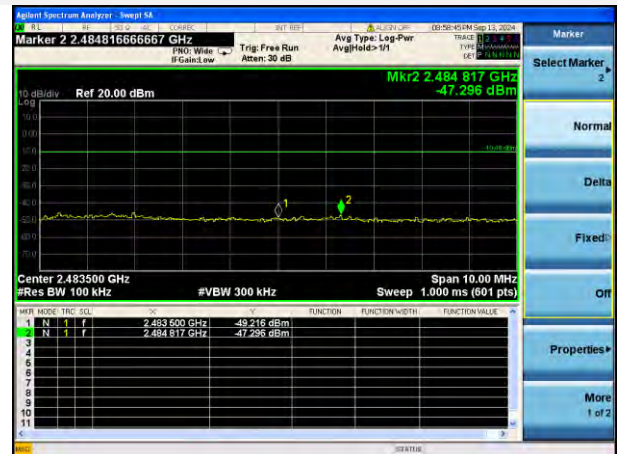
802.11b LOW CHANNEL, BAND EDGE



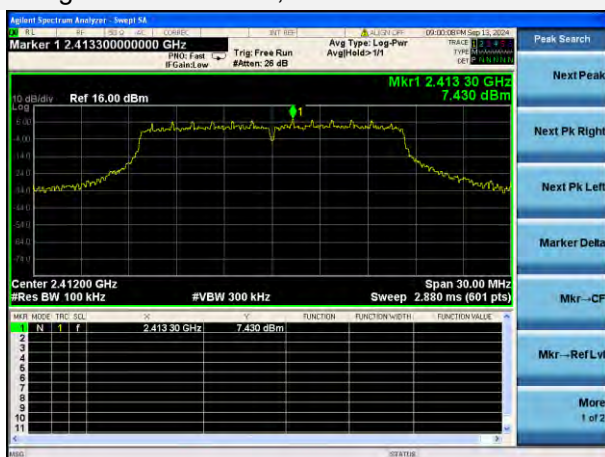
802.11b HIGH CHANNEL, CARRIER LEVEL



802.11b HIGH CHANNEL, BAND EDGE



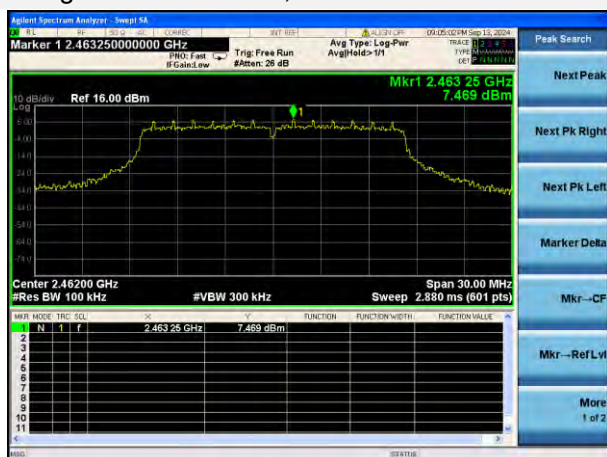
802.11g LOW CHANNEL, CARRIER LEVEL



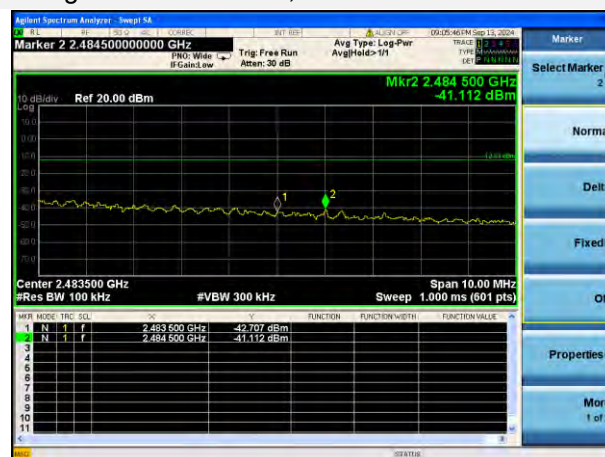
802.11g LOW CHANNEL, BAND EDGE



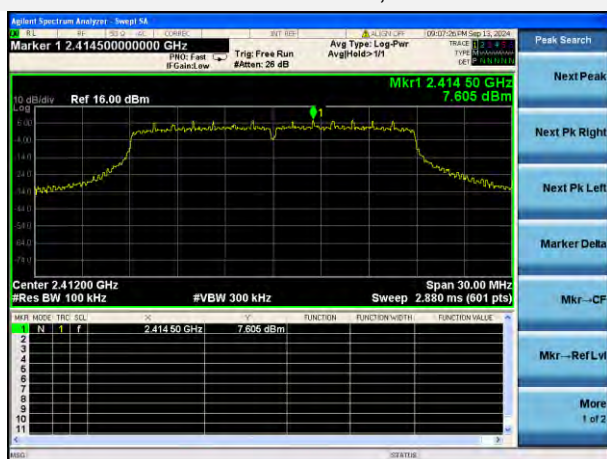
802.11g HIGH CHANNEL, CARRIER LEVEL



802.11g HIGH CHANNEL, BAND EDGE



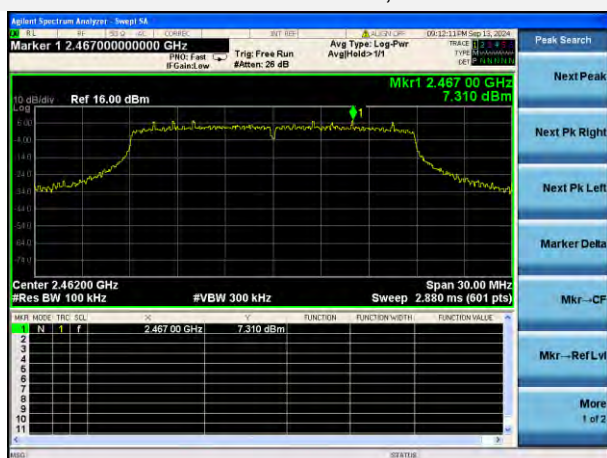
802.11n-20 MHz LOW CHANNEL, CARRIER LEVEL



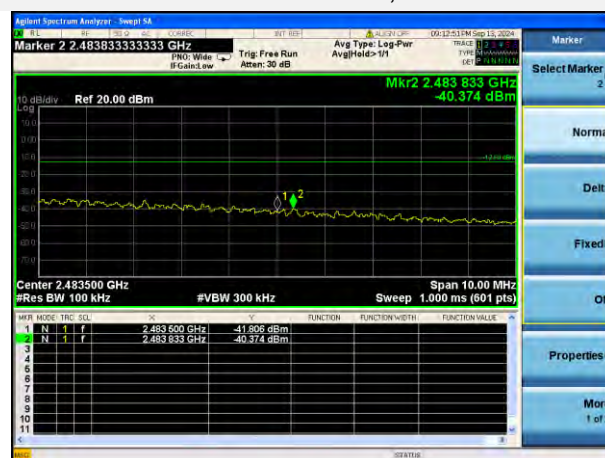
802.11n-20 MHz LOW CHANNEL, BAND EDGE



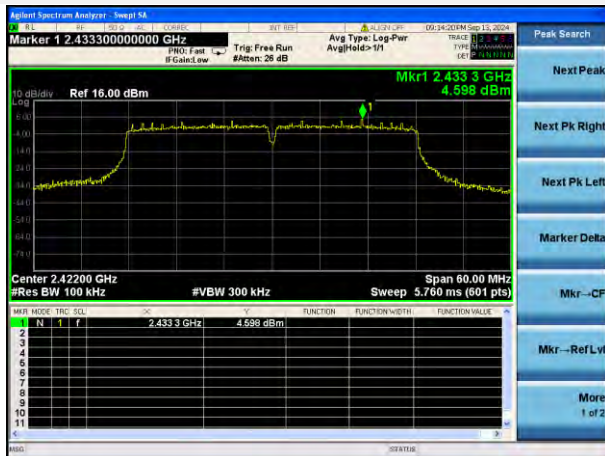
802.11n-20 MHz HIGH CHANNEL, CARRIER LEVEL



802.11n-20 MHz HIGH CHANNEL, BAND EDGE



802.11n-40 MHz LOW CHANNEL, CARRIER LEVEL



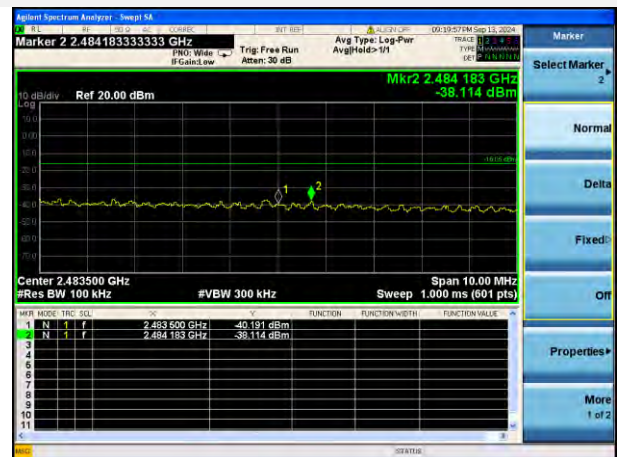
802.11n-40 MHz LOW CHANNEL, BAND EDGE



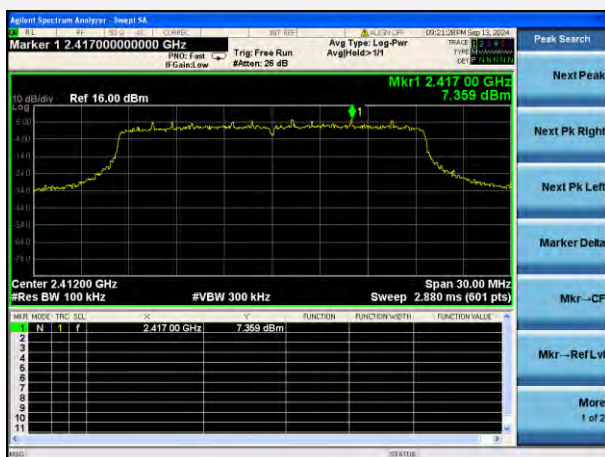
802.11n-40 MHz HIGH CHANNEL, CARRIER LEVEL



802.11n-40 MHz HIGH CHANNEL, BAND EDGE



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



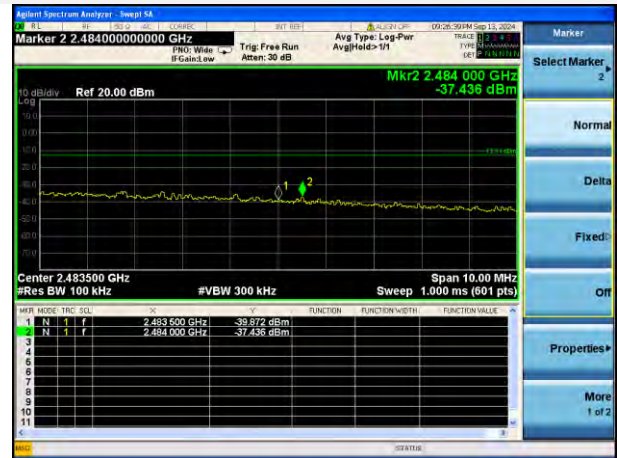
802.11ax-20 MHz(SU) LOW CHANNEL, BAND EDGE



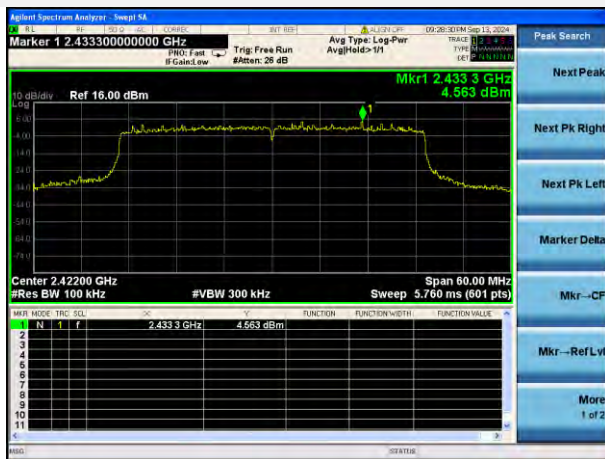
802.11ax-20 MHz(SU) HIGH CHANNEL, CARRIER LEVEL



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



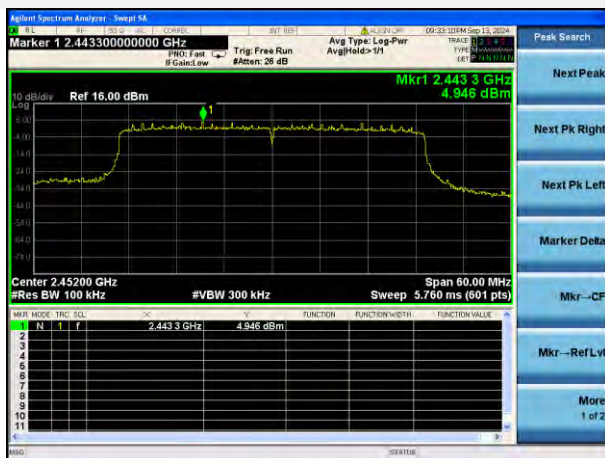
802.11ax-40 MHz(SU) LOW CHANNEL, CARRIER LEVEL



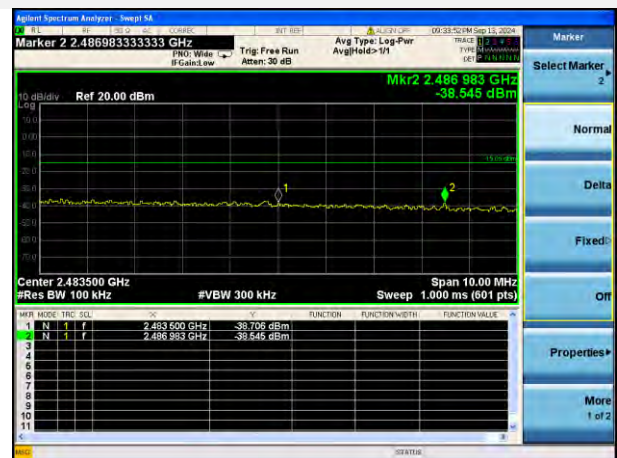
802.11ax-40 MHz(SU) LOW CHANNEL, BAND EDGE



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



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



A.5 Conducted Emissions

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

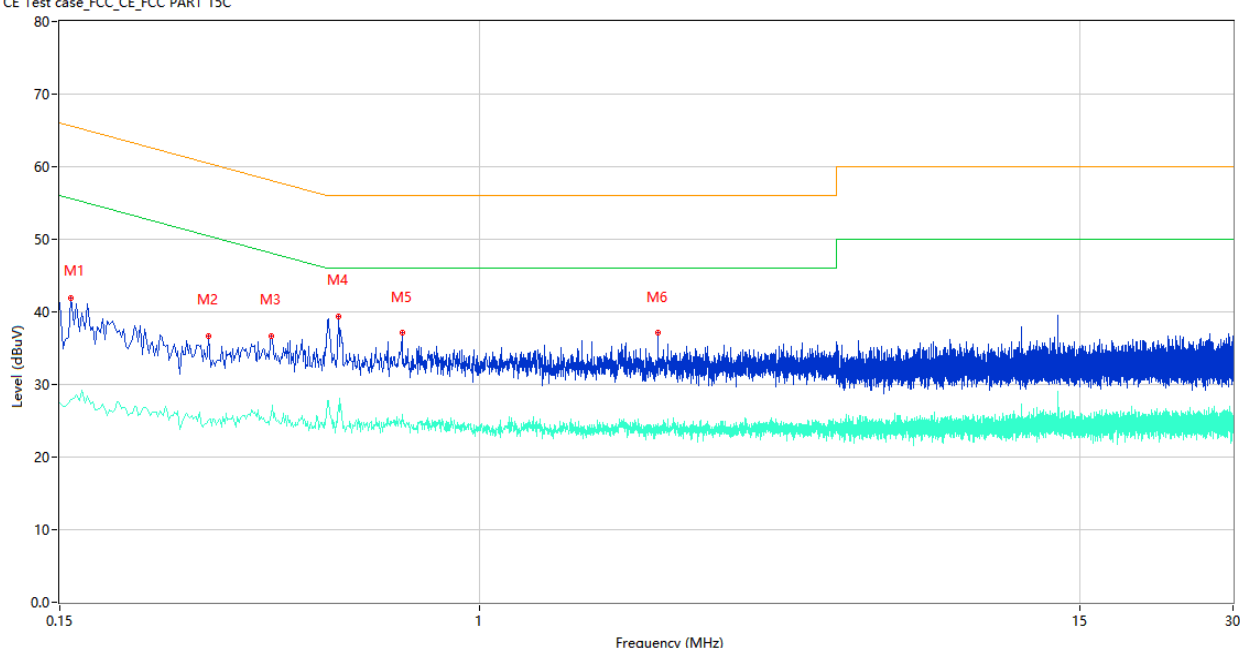
Note²: Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 60 Hz and 240 VAC, 50 Hz) for which the device is capable of operation. So, The configuration 120 VAC, 60 Hz and 240 VAC, 50 Hz were tested respectively, but only the worst configuration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

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

Test Data and Plots

PHASE L

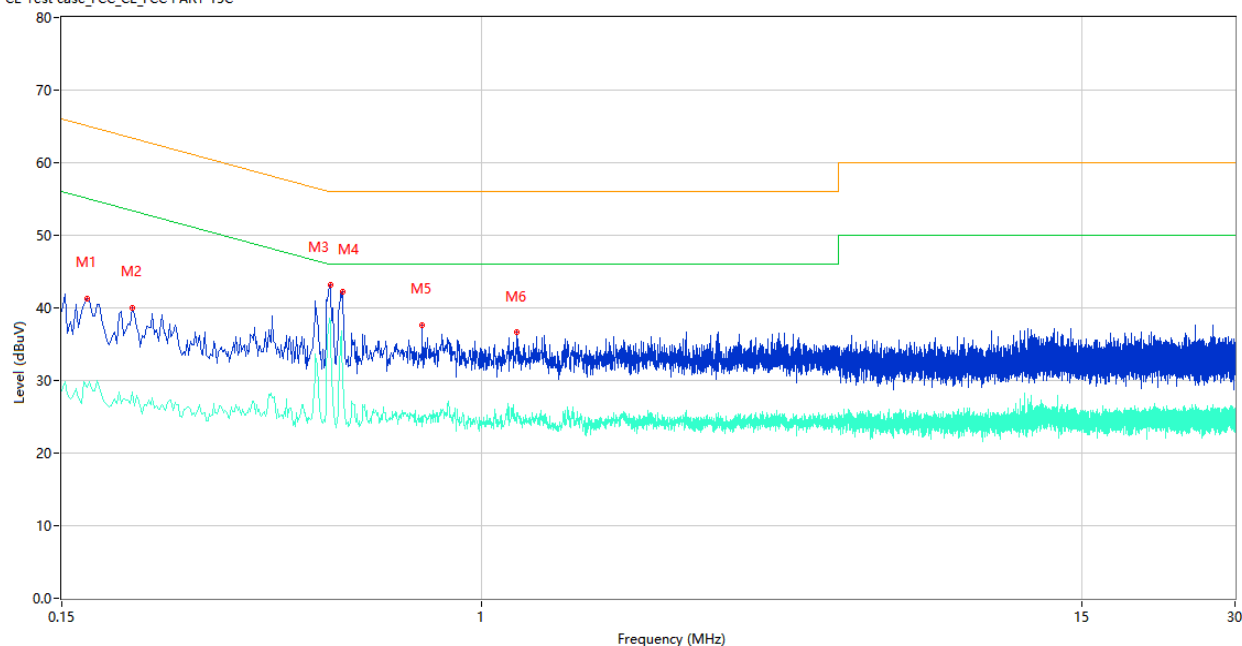
CE Test case_FCC_CE_FCC PART 15C



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.158	41.84	9.78	65.57	23.73	Peak	L	Pass
1**	0.158	27.91	9.78	55.57	27.66	AV	L	Pass
2	0.294	36.68	9.76	60.41	23.73	Peak	L	Pass
2**	0.294	25.12	9.76	50.41	25.29	AV	L	Pass
3	0.390	36.72	10.59	58.06	21.34	Peak	L	Pass
3**	0.390	25.71	10.59	48.06	22.35	AV	L	Pass
4	0.528	39.44	10.01	56.00	16.56	Peak	L	Pass
4**	0.528	27.19	10.01	46.00	18.81	AV	L	Pass
5	0.704	37.11	10.61	56.00	18.89	Peak	L	Pass
5**	0.704	25.86	10.61	46.00	20.14	AV	L	Pass
6	2.234	37.07	10.07	56.00	18.93	Peak	L	Pass
6**	2.234	23.80	10.07	46.00	22.20	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	0.168	41.32	9.78	65.06	23.74	Peak	N	Pass
1**	0.168	29.01	9.78	55.06	26.05	AV	N	Pass
2	0.206	40.06	9.77	63.37	23.31	Peak	N	Pass
2**	0.206	28.35	9.77	53.37	25.02	AV	N	Pass
3	0.504	43.10	9.98	56.00	12.90	Peak	N	Pass
3**	0.504	38.03	9.98	46.00	7.97	AV	N	Pass
4	0.534	42.21	10.01	56.00	13.79	Peak	N	Pass
4**	0.534	30.50	10.01	46.00	15.50	AV	N	Pass
5	0.764	37.69	10.28	56.00	18.31	Peak	N	Pass
5**	0.764	23.61	10.28	46.00	22.39	AV	N	Pass
6	1.172	36.66	10.17	56.00	19.34	Peak	N	Pass
6**	1.172	25.52	10.17	46.00	20.48	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.

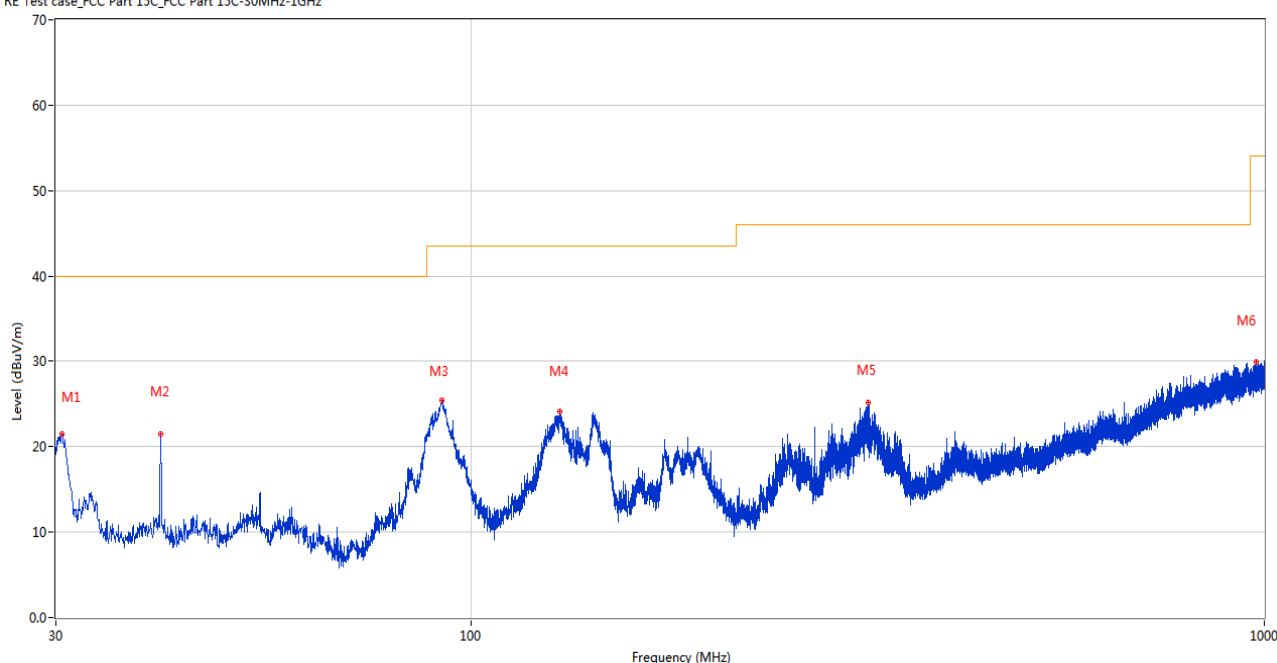
Note³: The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.

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

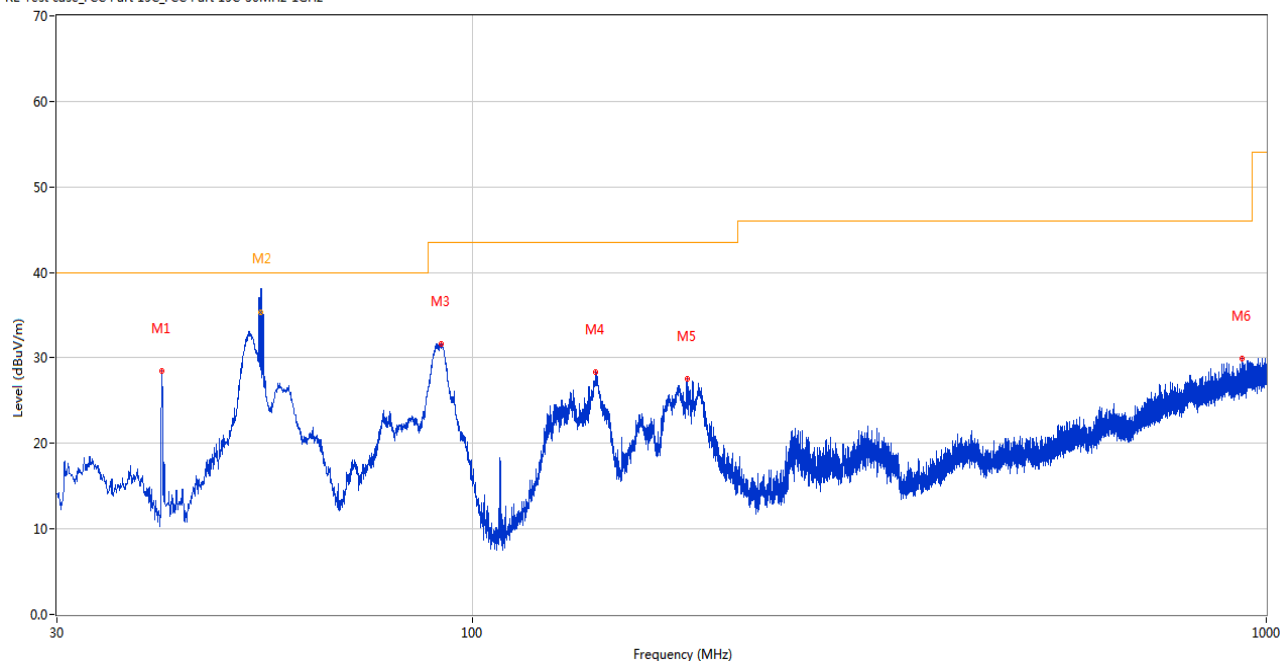
RE Test case_FCC Part 15C_FCC Part 15C-30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	30.534	21.49	-27.64	40.0	18.51	Peak	336.00	100	Horizontal	Pass
2	40.670	21.50	-26.10	40.0	18.50	Peak	0.00	100	Horizontal	Pass
3	91.886	25.40	-30.05	43.5	18.10	Peak	360.00	200	Horizontal	Pass
4	129.376	24.12	-27.46	43.5	19.38	Peak	205.00	200	Horizontal	Pass
5	317.266	25.24	-24.03	46.0	20.76	Peak	242.00	100	Horizontal	Pass
6	978.078	29.93	-10.02	54.0	24.07	Peak	334.00	100	Horizontal	Pass

30 MHz to 1 GHz, ANT V

RE Test case_FCC Part 15C_FCC Part 15C-30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	40.670	28.47	-26.10	40.0	11.53	Peak	217.00	100	Vertical	Pass
2	54.240	44.30	-26.97	40.0	-4.30	Peak	360.00	169	Vertical	N/A
2*	54.240	35.31	-26.97	40.0	4.69	QP	360.00	169	Vertical	Pass
3	91.498	31.66	-30.29	43.5	11.84	Peak	232.00	100	Vertical	Pass
4	143.150	28.39	-26.34	43.5	15.11	Peak	55.00	100	Vertical	Pass
5	186.413	27.60	-28.19	43.5	15.90	Peak	2.00	100	Vertical	Pass
6	932.003	29.95	-10.69	46.0	16.05	Peak	229.00	100	Vertical	Pass

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

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

Note ³: All the configurations were pre tested, only the worst configuration has been reported in this report.

Note ⁴: All antenna were pre tested, but only the worst case has been reported in this report.

Antenna 3

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1326.141	45.62	74.0	28.38	Peak	267.00	200	Horizontal	Pass
1**	1326.141	34.31	54.0	19.69	AV	267.00	200	Horizontal	Pass
2	2993.529	51.83	74.0	22.17	Peak	350.00	400	Horizontal	Pass
2**	2993.529	42.13	54.0	11.87	AV	350.00	400	Horizontal	Pass
3	4807.794	47.47	74.0	26.53	Peak	193.00	200	Horizontal	Pass
3**	4807.794	39.01	54.0	14.99	AV	193.00	200	Horizontal	Pass
4	6884.860	51.17	74.0	22.83	Peak	269.00	200	Horizontal	Pass
4**	6884.860	44.70	54.0	9.30	AV	269.00	200	Horizontal	Pass
5	12484.827	53.21	74.0	20.79	Peak	202.00	300	Horizontal	Pass
5**	12484.827	46.43	54.0	7.57	AV	202.00	300	Horizontal	Pass
6	17087.976	57.39	74.0	16.61	Peak	330.00	300	Horizontal	Pass
6**	17087.976	43.85	54.0	10.15	AV	330.00	300	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	1330.677	42.87	74.0	31.13	Peak	265.00	100	Vertical	Pass
1**	1330.677	38.58	54.0	15.42	AV	265.00	100	Vertical	Pass
2	2980.818	52.70	74.0	21.30	Peak	111.00	100	Vertical	Pass
2**	2980.818	39.02	54.0	14.98	AV	111.00	100	Vertical	Pass
3	4853.853	50.27	74.0	23.73	Peak	47.00	200	Vertical	Pass
3**	4853.853	41.06	54.0	12.94	AV	47.00	200	Vertical	Pass
4	7932.896	55.25	74.0	18.75	Peak	114.00	400	Vertical	Pass
4**	7932.896	45.79	54.0	8.21	AV	114.00	400	Vertical	Pass
5	12996.639	53.46	74.0	20.54	Peak	195.00	400	Vertical	Pass
5**	12996.639	44.82	54.0	9.18	AV	195.00	400	Vertical	Pass
6	17015.749	53.98	74.0	20.02	Peak	21.00	300	Vertical	Pass
6**	17015.749	43.75	54.0	10.25	AV	21.00	300	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1331.332	42.28	74.0	31.72	Peak	311.00	200	Horizontal	Pass
1**	1331.332	34.83	54.0	19.17	AV	311.00	200	Horizontal	Pass
2	2994.073	48.44	74.0	25.56	Peak	158.00	200	Horizontal	Pass
2**	2994.073	41.66	54.0	12.34	AV	158.00	200	Horizontal	Pass
3	4812.472	51.41	74.0	22.59	Peak	106.00	200	Horizontal	Pass
3**	4812.472	42.66	54.0	11.34	AV	106.00	200	Horizontal	Pass
4	6890.033	52.80	74.0	21.20	Peak	1.00	300	Horizontal	Pass
4**	6890.033	45.74	54.0	8.26	AV	1.00	300	Horizontal	Pass
5	12487.923	53.70	74.0	20.30	Peak	50.00	200	Horizontal	Pass
5**	12487.923	42.53	54.0	11.47	AV	50.00	200	Horizontal	Pass
6	17092.610	58.09	74.0	15.91	Peak	18.00	300	Horizontal	Pass
6**	17092.610	44.39	54.0	9.61	AV	18.00	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	1331.121	45.74	74.0	28.26	Peak	291.00	100	Vertical	Pass
1**	1331.121	37.81	54.0	16.19	AV	291.00	100	Vertical	Pass
2	2978.485	52.81	74.0	21.19	Peak	113.00	300	Vertical	Pass
2**	2978.485	41.29	54.0	12.71	AV	113.00	300	Vertical	Pass
3	4855.537	48.39	74.0	25.61	Peak	276.00	200	Vertical	Pass
3**	4855.537	38.43	54.0	15.57	AV	276.00	200	Vertical	Pass
4	7932.983	52.11	74.0	21.89	Peak	34.00	400	Vertical	Pass
4**	7932.983	43.13	54.0	10.87	AV	34.00	400	Vertical	Pass
5	12995.315	51.51	74.0	22.49	Peak	248.00	200	Vertical	Pass
5**	12995.315	44.94	54.0	9.06	AV	248.00	200	Vertical	Pass
6	17012.747	55.16	74.0	18.84	Peak	92.00	300	Vertical	Pass
6**	17012.747	47.28	54.0	6.72	AV	92.00	300	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1329.055	46.57	74.0	27.43	Peak	261.00	300	Horizontal	Pass
1**	1329.055	33.89	54.0	20.11	AV	261.00	300	Horizontal	Pass
2	2999.735	50.68	74.0	23.32	Peak	186.00	300	Horizontal	Pass
2**	2999.735	38.81	54.0	15.19	AV	186.00	300	Horizontal	Pass
3	4809.953	52.49	74.0	21.51	Peak	49.00	200	Horizontal	Pass
3**	4809.953	37.95	54.0	16.05	AV	49.00	200	Horizontal	Pass
4	6887.649	55.72	74.0	18.28	Peak	104.00	100	Horizontal	Pass
4**	6887.649	43.34	54.0	10.66	AV	104.00	100	Horizontal	Pass
5	12484.275	53.65	74.0	20.35	Peak	82.00	200	Horizontal	Pass
5**	12484.275	43.04	54.0	10.96	AV	82.00	200	Horizontal	Pass
6	17093.766	52.31	74.0	21.69	Peak	87.00	100	Horizontal	Pass
6**	17093.766	46.43	54.0	7.57	AV	87.00	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	1336.348	45.06	74.0	28.94	Peak	343.00	400	Vertical	Pass
1**	1336.348	40.20	54.0	13.80	AV	343.00	400	Vertical	Pass
2	2982.500	51.89	74.0	22.11	Peak	223.00	200	Vertical	Pass
2**	2982.500	40.03	54.0	13.97	AV	223.00	200	Vertical	Pass
3	4857.971	50.48	74.0	23.52	Peak	360.00	200	Vertical	Pass
3**	4857.971	43.00	54.0	11.00	AV	360.00	200	Vertical	Pass
4	7930.155	55.53	74.0	18.47	Peak	51.00	200	Vertical	Pass
4**	7930.155	42.53	54.0	11.47	AV	51.00	200	Vertical	Pass
5	12996.916	51.24	74.0	22.76	Peak	353.00	200	Vertical	Pass
5**	12996.916	44.54	54.0	9.46	AV	353.00	200	Vertical	Pass
6	17014.130	57.23	74.0	16.77	Peak	169.00	400	Vertical	Pass
6**	17014.130	46.48	54.0	7.52	AV	169.00	400	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1332.659	45.82	74.0	28.18	Peak	108.00	300	Horizontal	Pass
1**	1332.659	34.55	54.0	19.45	AV	108.00	300	Horizontal	Pass
2	2999.504	49.68	74.0	24.32	Peak	113.00	400	Horizontal	Pass
2**	2999.504	43.03	54.0	10.97	AV	113.00	400	Horizontal	Pass
3	4811.177	49.27	74.0	24.73	Peak	79.00	200	Horizontal	Pass
3**	4811.177	42.47	54.0	11.53	AV	79.00	200	Horizontal	Pass
4	6886.747	55.31	74.0	18.69	Peak	38.00	200	Horizontal	Pass
4**	6886.747	41.99	54.0	12.01	AV	38.00	200	Horizontal	Pass
5	12485.366	56.68	74.0	17.32	Peak	104.00	200	Horizontal	Pass
5**	12485.366	46.97	54.0	7.03	AV	104.00	200	Horizontal	Pass
6	17090.419	55.18	74.0	18.82	Peak	222.00	100	Horizontal	Pass
6**	17090.419	44.47	54.0	9.53	AV	222.00	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	1333.919	45.48	74.0	28.52	Peak	101.00	400	Vertical	Pass
1**	1333.919	40.53	54.0	13.47	AV	101.00	400	Vertical	Pass
2	2980.033	48.90	74.0	25.10	Peak	245.00	300	Vertical	Pass
2**	2980.033	42.22	54.0	11.78	AV	245.00	300	Vertical	Pass
3	4857.934	50.20	74.0	23.80	Peak	322.00	200	Vertical	Pass
3**	4857.934	37.70	54.0	16.30	AV	322.00	200	Vertical	Pass
4	7926.533	51.35	74.0	22.65	Peak	20.00	300	Vertical	Pass
4**	7926.533	45.84	54.0	8.16	AV	20.00	300	Vertical	Pass
5	12991.775	54.86	74.0	19.14	Peak	294.00	100	Vertical	Pass
5**	12991.775	47.61	54.0	6.39	AV	294.00	100	Vertical	Pass
6	17018.128	57.05	74.0	16.95	Peak	57.00	100	Vertical	Pass
6**	17018.128	46.53	54.0	7.47	AV	57.00	100	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	1331.677	46.11	74.0	27.89	Peak	80.00	300	Horizontal	Pass
1**	1331.677	39.09	54.0	14.91	AV	80.00	300	Horizontal	Pass
2	2993.386	49.21	74.0	24.79	Peak	189.00	100	Horizontal	Pass
2**	2993.386	39.31	54.0	14.69	AV	189.00	100	Horizontal	Pass
3	4809.479	50.15	74.0	23.85	Peak	98.00	200	Horizontal	Pass
3**	4809.479	40.96	54.0	13.04	AV	98.00	200	Horizontal	Pass
4	6886.473	55.72	74.0	18.28	Peak	339.00	200	Horizontal	Pass
4**	6886.473	42.94	54.0	11.06	AV	339.00	200	Horizontal	Pass
5	12491.144	52.64	74.0	21.36	Peak	65.00	400	Horizontal	Pass
5**	12491.144	45.01	54.0	8.99	AV	65.00	400	Horizontal	Pass
6	17088.043	53.23	74.0	20.77	Peak	182.00	300	Horizontal	Pass
6**	17088.043	43.12	54.0	10.88	AV	182.00	300	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	1336.070	47.08	74.0	26.92	Peak	306.00	400	Vertical	Pass
1**	1336.070	37.08	54.0	16.92	AV	306.00	400	Vertical	Pass
2	2981.382	47.79	74.0	26.21	Peak	295.00	300	Vertical	Pass
2**	2981.382	41.05	54.0	12.95	AV	295.00	300	Vertical	Pass
3	4854.694	48.77	74.0	25.23	Peak	315.00	200	Vertical	Pass
3**	4854.694	41.20	54.0	12.80	AV	315.00	200	Vertical	Pass
4	7931.694	56.20	74.0	17.80	Peak	97.00	400	Vertical	Pass
4**	7931.694	42.25	54.0	11.75	AV	97.00	400	Vertical	Pass
5	12992.788	52.21	74.0	21.79	Peak	315.00	300	Vertical	Pass
5**	12992.788	44.90	54.0	9.10	AV	315.00	300	Vertical	Pass
6	17012.096	54.89	74.0	19.11	Peak	13.00	400	Vertical	Pass
6**	17012.096	47.04	54.0	6.96	AV	13.00	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	1327.183	42.41	74.0	31.59	Peak	264.00	100	Horizontal	Pass
1**	1327.183	34.12	54.0	19.88	AV	264.00	100	Horizontal	Pass
2	2997.618	51.98	74.0	22.02	Peak	279.00	300	Horizontal	Pass
2**	2997.618	39.92	54.0	14.08	AV	279.00	300	Horizontal	Pass
3	4814.237	47.34	74.0	26.66	Peak	250.00	200	Horizontal	Pass
3**	4814.237	37.55	54.0	16.45	AV	250.00	200	Horizontal	Pass
4	6886.349	51.76	74.0	22.24	Peak	40.00	100	Horizontal	Pass
4**	6886.349	42.33	54.0	11.67	AV	40.00	100	Horizontal	Pass
5	12487.946	54.44	74.0	19.56	Peak	187.00	400	Horizontal	Pass
5**	12487.946	44.26	54.0	9.74	AV	187.00	400	Horizontal	Pass
6	17088.302	57.08	74.0	16.92	Peak	358.00	400	Horizontal	Pass
6**	17088.302	43.17	54.0	10.83	AV	358.00	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	1334.971	44.74	74.0	29.26	Peak	239.00	100	Vertical	Pass
1**	1334.971	35.92	54.0	18.08	AV	239.00	100	Vertical	Pass
2	2979.681	50.03	74.0	23.97	Peak	345.00	200	Vertical	Pass
2**	2979.681	43.01	54.0	10.99	AV	345.00	200	Vertical	Pass
3	4854.771	52.31	74.0	21.69	Peak	311.00	200	Vertical	Pass
3**	4854.771	38.86	54.0	15.14	AV	311.00	200	Vertical	Pass
4	7927.604	53.56	74.0	20.44	Peak	69.00	300	Vertical	Pass
4**	7927.604	42.56	54.0	11.44	AV	69.00	300	Vertical	Pass
5	12990.044	51.58	74.0	22.42	Peak	44.00	300	Vertical	Pass
5**	12990.044	44.24	54.0	9.76	AV	44.00	300	Vertical	Pass
6	17018.688	53.44	74.0	20.56	Peak	2.00	300	Vertical	Pass
6**	17018.688	46.74	54.0	7.26	AV	2.00	300	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1331.958	43.01	74.0	30.99	Peak	270.00	100	Horizontal	Pass
1**	1331.958	36.35	54.0	17.65	AV	270.00	100	Horizontal	Pass
2	2994.282	52.10	74.0	21.90	Peak	100.00	100	Horizontal	Pass
2**	2994.282	40.83	54.0	13.17	AV	100.00	100	Horizontal	Pass
3	4809.851	50.78	74.0	23.22	Peak	226.00	200	Horizontal	Pass
3**	4809.851	41.97	54.0	12.03	AV	226.00	200	Horizontal	Pass
4	6882.676	52.33	74.0	21.67	Peak	357.00	100	Horizontal	Pass
4**	6882.676	42.00	54.0	12.00	AV	357.00	100	Horizontal	Pass
5	12491.824	54.13	74.0	19.87	Peak	120.00	100	Horizontal	Pass
5**	12491.824	44.47	54.0	9.53	AV	120.00	100	Horizontal	Pass
6	17093.691	56.21	74.0	17.79	Peak	250.00	400	Horizontal	Pass
6**	17093.691	43.69	54.0	10.31	AV	250.00	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	1330.454	44.25	74.0	29.75	Peak	56.00	100	Vertical	Pass
1**	1330.454	35.04	54.0	18.96	AV	56.00	100	Vertical	Pass
2	2980.635	49.03	74.0	24.97	Peak	350.00	400	Vertical	Pass
2**	2980.635	41.42	54.0	12.58	AV	350.00	400	Vertical	Pass
3	4857.416	49.83	74.0	24.17	Peak	187.00	200	Vertical	Pass
3**	4857.416	40.02	54.0	13.98	AV	187.00	200	Vertical	Pass
4	7932.803	53.63	74.0	20.37	Peak	287.00	400	Vertical	Pass
4**	7932.803	44.28	54.0	9.72	AV	287.00	400	Vertical	Pass
5	12991.588	54.64	74.0	19.36	Peak	189.00	200	Vertical	Pass
5**	12991.588	42.10	54.0	11.90	AV	189.00	200	Vertical	Pass
6	17017.600	55.28	74.0	18.72	Peak	63.00	200	Vertical	Pass
6**	17017.600	46.40	54.0	7.60	AV	63.00	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	1327.602	47.17	74.0	26.83	Peak	190.00	200	Horizontal	Pass
1**	1327.602	37.15	54.0	16.85	AV	190.00	200	Horizontal	Pass
2	2999.004	48.71	74.0	25.29	Peak	53.00	200	Horizontal	Pass
2**	2999.004	39.06	54.0	14.94	AV	53.00	200	Horizontal	Pass
3	4812.453	52.44	74.0	21.56	Peak	212.00	200	Horizontal	Pass
3**	4812.453	40.77	54.0	13.23	AV	212.00	200	Horizontal	Pass
4	6885.677	50.52	74.0	23.48	Peak	326.00	400	Horizontal	Pass
4**	6885.677	45.33	54.0	8.67	AV	326.00	400	Horizontal	Pass
5	12487.799	52.06	74.0	21.94	Peak	244.00	300	Horizontal	Pass
5**	12487.799	45.97	54.0	8.03	AV	244.00	300	Horizontal	Pass
6	17093.114	57.28	74.0	16.72	Peak	278.00	400	Horizontal	Pass
6**	17093.114	47.85	54.0	6.15	AV	278.00	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	1336.817	43.86	74.0	30.14	Peak	57.00	100	Vertical	Pass
1**	1336.817	40.67	54.0	13.33	AV	57.00	100	Vertical	Pass
2	2985.025	52.66	74.0	21.34	Peak	283.00	300	Vertical	Pass
2**	2985.025	41.59	54.0	12.41	AV	283.00	300	Vertical	Pass
3	4856.878	51.39	74.0	22.61	Peak	35.00	200	Vertical	Pass
3**	4856.878	39.43	54.0	14.57	AV	35.00	200	Vertical	Pass
4	7931.162	52.81	74.0	21.19	Peak	44.00	200	Vertical	Pass
4**	7931.162	44.87	54.0	9.13	AV	44.00	200	Vertical	Pass
5	12994.408	53.58	74.0	20.42	Peak	155.00	200	Vertical	Pass
5**	12994.408	44.50	54.0	9.50	AV	155.00	200	Vertical	Pass
6	17015.842	54.20	74.0	19.80	Peak	344.00	400	Vertical	Pass
6**	17015.842	44.34	54.0	9.66	AV	344.00	400	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1326.926	44.91	74.0	29.09	Peak	48.00	200	Horizontal	Pass
1**	1326.926	35.96	54.0	18.04	AV	48.00	200	Horizontal	Pass
2	2995.472	50.47	74.0	23.53	Peak	141.00	200	Horizontal	Pass
2**	2995.472	41.39	54.0	12.61	AV	141.00	200	Horizontal	Pass
3	4808.744	51.10	74.0	22.90	Peak	187.00	200	Horizontal	Pass
3**	4808.744	38.47	54.0	15.53	AV	187.00	200	Horizontal	Pass
4	6889.530	52.98	74.0	21.02	Peak	15.00	400	Horizontal	Pass
4**	6889.530	42.80	54.0	11.20	AV	15.00	400	Horizontal	Pass
5	12491.392	53.48	74.0	20.52	Peak	211.00	100	Horizontal	Pass
5**	12491.392	43.44	54.0	10.56	AV	211.00	100	Horizontal	Pass
6	17091.851	57.63	74.0	16.37	Peak	220.00	300	Horizontal	Pass
6**	17091.851	44.11	54.0	9.89	AV	220.00	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	1336.831	42.71	74.0	31.29	Peak	137.00	300	Vertical	Pass
1**	1336.831	40.15	54.0	13.85	AV	137.00	300	Vertical	Pass
2	2982.295	52.84	74.0	21.16	Peak	23.00	400	Vertical	Pass
2**	2982.295	44.45	54.0	9.55	AV	23.00	400	Vertical	Pass
3	4850.583	48.06	74.0	25.94	Peak	111.00	200	Vertical	Pass
3**	4850.583	42.67	54.0	11.33	AV	111.00	200	Vertical	Pass
4	7928.918	53.96	74.0	20.04	Peak	24.00	100	Vertical	Pass
4**	7928.918	47.13	54.0	6.87	AV	24.00	100	Vertical	Pass
5	12994.868	55.50	74.0	18.50	Peak	349.00	400	Vertical	Pass
5**	12994.868	47.42	54.0	6.58	AV	349.00	400	Vertical	Pass
6	17011.067	57.28	74.0	16.72	Peak	147.00	100	Vertical	Pass
6**	17011.067	46.13	54.0	7.87	AV	147.00	100	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	1330.443	45.63	74.0	28.37	Peak	224.00	300	Horizontal	Pass
1**	1330.443	35.07	54.0	18.93	AV	224.00	300	Horizontal	Pass
2	2994.000	50.47	74.0	23.53	Peak	4.00	100	Horizontal	Pass
2**	2994.000	38.63	54.0	15.37	AV	4.00	100	Horizontal	Pass
3	4809.816	51.81	74.0	22.19	Peak	329.00	200	Horizontal	Pass
3**	4809.816	39.95	54.0	14.05	AV	329.00	200	Horizontal	Pass
4	6889.321	52.81	74.0	21.19	Peak	186.00	400	Horizontal	Pass
4**	6889.321	47.44	54.0	6.56	AV	186.00	400	Horizontal	Pass
5	12485.458	51.75	74.0	22.25	Peak	120.00	300	Horizontal	Pass
5**	12485.458	43.07	54.0	10.93	AV	120.00	300	Horizontal	Pass
6	17087.315	56.34	74.0	17.66	Peak	336.00	300	Horizontal	Pass
6**	17087.315	46.38	54.0	7.62	AV	336.00	300	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	1329.055	43.95	74.0	30.05	Peak	70.00	200	Vertical	Pass
1**	1329.055	37.55	54.0	16.45	AV	70.00	200	Vertical	Pass
2	2984.138	49.68	74.0	24.32	Peak	69.00	200	Vertical	Pass
2**	2984.138	44.15	54.0	9.85	AV	69.00	200	Vertical	Pass
3	4854.821	46.68	74.0	27.32	Peak	296.00	200	Vertical	Pass
3**	4854.821	42.92	54.0	11.08	AV	296.00	200	Vertical	Pass
4	7932.159	51.10	74.0	22.90	Peak	341.00	300	Vertical	Pass
4**	7932.159	44.68	54.0	9.32	AV	341.00	300	Vertical	Pass
5	12994.331	52.78	74.0	21.22	Peak	95.00	300	Vertical	Pass
5**	12994.331	42.46	54.0	11.54	AV	95.00	300	Vertical	Pass
6	17017.716	55.29	74.0	18.71	Peak	49.00	100	Vertical	Pass
6**	17017.716	47.43	54.0	6.57	AV	49.00	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	1329.597	41.67	74.0	32.33	Peak	168.00	400	Horizontal	Pass
1**	1329.597	37.48	54.0	16.52	AV	168.00	400	Horizontal	Pass
2	2997.780	51.70	74.0	22.30	Peak	160.00	200	Horizontal	Pass
2**	2997.780	41.18	54.0	12.82	AV	160.00	200	Horizontal	Pass
3	4810.419	47.72	74.0	26.28	Peak	205.00	200	Horizontal	Pass
3**	4810.419	42.23	54.0	11.77	AV	205.00	200	Horizontal	Pass
4	6889.465	53.65	74.0	20.35	Peak	85.00	300	Horizontal	Pass
4**	6889.465	44.57	54.0	9.43	AV	85.00	300	Horizontal	Pass
5	12491.887	56.22	74.0	17.78	Peak	27.00	400	Horizontal	Pass
5**	12491.887	42.17	54.0	11.83	AV	27.00	400	Horizontal	Pass
6	17090.493	55.02	74.0	18.98	Peak	172.00	400	Horizontal	Pass
6**	17090.493	44.53	54.0	9.47	AV	172.00	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	1333.101	47.38	74.0	26.62	Peak	61.00	100	Vertical	Pass
1**	1333.101	34.77	54.0	19.23	AV	61.00	100	Vertical	Pass
2	2984.567	51.13	74.0	22.87	Peak	28.00	400	Vertical	Pass
2**	2984.567	40.12	54.0	13.88	AV	28.00	400	Vertical	Pass
3	4857.929	50.75	74.0	23.25	Peak	222.00	200	Vertical	Pass
3**	4857.929	39.34	54.0	14.66	AV	222.00	200	Vertical	Pass
4	7927.662	52.04	74.0	21.96	Peak	62.00	400	Vertical	Pass
4**	7927.662	47.34	54.0	6.66	AV	62.00	400	Vertical	Pass
5	12990.127	52.13	74.0	21.87	Peak	210.00	100	Vertical	Pass
5**	12990.127	44.06	54.0	9.94	AV	210.00	100	Vertical	Pass
6	17013.141	57.61	74.0	16.39	Peak	127.00	200	Vertical	Pass
6**	17013.141	45.63	54.0	8.37	AV	127.00	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	1327.406	42.95	74.0	31.05	Peak	315.00	400	Horizontal	Pass
1**	1327.406	39.12	54.0	14.88	AV	315.00	400	Horizontal	Pass
2	2999.798	49.23	74.0	24.77	Peak	317.00	400	Horizontal	Pass
2**	2999.798	41.99	54.0	12.01	AV	317.00	400	Horizontal	Pass
3	4807.303	52.19	74.0	21.81	Peak	33.00	200	Horizontal	Pass
3**	4807.303	38.50	54.0	15.50	AV	33.00	200	Horizontal	Pass
4	6883.450	54.06	74.0	19.94	Peak	12.00	400	Horizontal	Pass
4**	6883.450	42.79	54.0	11.21	AV	12.00	400	Horizontal	Pass
5	12484.984	51.76	74.0	22.24	Peak	283.00	200	Horizontal	Pass
5**	12484.984	44.36	54.0	9.64	AV	283.00	200	Horizontal	Pass
6	17087.847	55.12	74.0	18.88	Peak	255.00	100	Horizontal	Pass
6**	17087.847	46.87	54.0	7.13	AV	255.00	100	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	1331.154	46.89	74.0	27.11	Peak	62.00	300	Vertical	Pass
1**	1331.154	39.62	54.0	14.38	AV	62.00	300	Vertical	Pass
2	2983.616	50.83	74.0	23.17	Peak	206.00	300	Vertical	Pass
2**	2983.616	43.83	54.0	10.17	AV	206.00	300	Vertical	Pass
3	4857.555	49.16	74.0	24.84	Peak	348.00	200	Vertical	Pass
3**	4857.555	39.83	54.0	14.17	AV	348.00	200	Vertical	Pass
4	7928.201	53.94	74.0	20.06	Peak	127.00	200	Vertical	Pass
4**	7928.201	45.72	54.0	8.28	AV	127.00	200	Vertical	Pass
5	12990.112	53.28	74.0	20.72	Peak	322.00	200	Vertical	Pass
5**	12990.112	47.08	54.0	6.92	AV	322.00	200	Vertical	Pass
6	17012.333	55.28	74.0	18.72	Peak	177.00	100	Vertical	Pass
6**	17012.333	47.08	54.0	6.92	AV	177.00	100	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1333.670	41.93	74.0	32.07	Peak	294.00	300	Horizontal	Pass
1**	1333.670	36.73	54.0	17.27	AV	294.00	300	Horizontal	Pass
2	2994.613	48.37	74.0	25.63	Peak	274.00	200	Horizontal	Pass
2**	2994.613	40.70	54.0	13.30	AV	274.00	200	Horizontal	Pass
3	4809.692	50.50	74.0	23.50	Peak	293.00	200	Horizontal	Pass
3**	4809.692	41.62	54.0	12.38	AV	293.00	200	Horizontal	Pass
4	6888.273	55.38	74.0	18.62	Peak	170.00	300	Horizontal	Pass
4**	6888.273	43.18	54.0	10.82	AV	170.00	300	Horizontal	Pass
5	12490.631	55.53	74.0	18.47	Peak	274.00	200	Horizontal	Pass
5**	12490.631	41.89	54.0	12.11	AV	274.00	200	Horizontal	Pass
6	17092.885	57.37	74.0	16.63	Peak	345.00	200	Horizontal	Pass
6**	17092.885	43.35	54.0	10.65	AV	345.00	200	Horizontal	Pass

1 GHz to 18 GHz, ANT V802.11ax20(SU) Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1334.860	47.68	74.0	26.32	Peak	18.00	400	Vertical	Pass
1**	1334.860	36.27	54.0	17.73	AV	18.00	400	Vertical	Pass
2	2985.338	48.96	74.0	25.04	Peak	29.00	200	Vertical	Pass
2**	2985.338	42.67	54.0	11.33	AV	29.00	200	Vertical	Pass
3	4850.253	49.32	74.0	24.68	Peak	205.00	200	Vertical	Pass
3**	4850.253	40.57	54.0	13.43	AV	205.00	200	Vertical	Pass
4	7932.452	51.50	74.0	22.50	Peak	88.00	400	Vertical	Pass
4**	7932.452	41.97	54.0	12.03	AV	88.00	400	Vertical	Pass
5	12993.711	56.13	74.0	17.87	Peak	292.00	300	Vertical	Pass
5**	12993.711	47.39	54.0	6.61	AV	292.00	300	Vertical	Pass
6	17017.939	54.51	74.0	19.49	Peak	332.00	100	Vertical	Pass
6**	17017.939	47.46	54.0	6.54	AV	332.00	100	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1326.815	45.74	74.0	28.26	Peak	104.00	400	Horizontal	Pass
1**	1326.815	39.62	54.0	14.38	AV	104.00	400	Horizontal	Pass
2	2994.484	48.89	74.0	25.11	Peak	0.00	200	Horizontal	Pass
2**	2994.484	39.64	54.0	14.36	AV	0.00	200	Horizontal	Pass
3	4811.023	46.99	74.0	27.01	Peak	333.00	200	Horizontal	Pass
3**	4811.023	41.87	54.0	12.13	AV	333.00	200	Horizontal	Pass
4	6883.705	54.98	74.0	19.02	Peak	309.00	200	Horizontal	Pass
4**	6883.705	46.40	54.0	7.60	AV	309.00	200	Horizontal	Pass
5	12488.735	51.06	74.0	22.94	Peak	81.00	200	Horizontal	Pass
5**	12488.735	46.61	54.0	7.39	AV	81.00	200	Horizontal	Pass
6	17093.201	54.48	74.0	19.52	Peak	75.00	300	Horizontal	Pass
6**	17093.201	48.84	54.0	5.16	AV	75.00	300	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1332.287	47.53	74.0	26.47	Peak	72.00	200	Vertical	Pass
1**	1332.287	34.99	54.0	19.01	AV	72.00	200	Vertical	Pass
2	2983.059	51.23	74.0	22.77	Peak	38.00	200	Vertical	Pass
2**	2983.059	41.77	54.0	12.23	AV	38.00	200	Vertical	Pass
3	4858.080	50.54	74.0	23.46	Peak	11.00	200	Vertical	Pass
3**	4858.080	39.49	54.0	14.51	AV	11.00	200	Vertical	Pass
4	7927.645	54.88	74.0	19.12	Peak	54.00	400	Vertical	Pass
4**	7927.645	45.41	54.0	8.59	AV	54.00	400	Vertical	Pass
5	12990.267	55.61	74.0	18.39	Peak	50.00	400	Vertical	Pass
5**	12990.267	43.28	54.0	10.72	AV	50.00	400	Vertical	Pass
6	17014.776	55.30	74.0	18.70	Peak	164.00	100	Vertical	Pass
6**	17014.776	47.70	54.0	6.30	AV	164.00	100	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1329.346	47.39	74.0	26.61	Peak	164.00	200	Horizontal	Pass
1**	1329.346	37.89	54.0	16.11	AV	164.00	200	Horizontal	Pass
2	2994.293	51.44	74.0	22.56	Peak	269.00	300	Horizontal	Pass
2**	2994.293	43.57	54.0	10.43	AV	269.00	300	Horizontal	Pass
3	4810.786	52.34	74.0	21.66	Peak	150.00	200	Horizontal	Pass
3**	4810.786	41.95	54.0	12.05	AV	150.00	200	Horizontal	Pass
4	6885.105	50.14	74.0	23.86	Peak	77.00	400	Horizontal	Pass
4**	6885.105	45.03	54.0	8.97	AV	77.00	400	Horizontal	Pass
5	12488.846	56.22	74.0	17.78	Peak	35.00	400	Horizontal	Pass
5**	12488.846	47.45	54.0	6.55	AV	35.00	400	Horizontal	Pass
6	17094.164	56.67	74.0	17.33	Peak	91.00	100	Horizontal	Pass
6**	17094.164	47.60	54.0	6.40	AV	91.00	100	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1330.533	44.51	74.0	29.49	Peak	302.00	400	Vertical	Pass
1**	1330.533	37.71	54.0	16.29	AV	302.00	400	Vertical	Pass
2	2979.395	50.57	74.0	23.43	Peak	321.00	200	Vertical	Pass
2**	2979.395	40.04	54.0	13.96	AV	321.00	200	Vertical	Pass
3	4851.724	47.70	74.0	26.30	Peak	36.00	200	Vertical	Pass
3**	4851.724	40.12	54.0	13.88	AV	36.00	200	Vertical	Pass
4	7929.278	54.99	74.0	19.01	Peak	184.00	100	Vertical	Pass
4**	7929.278	42.59	54.0	11.41	AV	184.00	100	Vertical	Pass
5	12993.846	55.46	74.0	18.54	Peak	142.00	400	Vertical	Pass
5**	12993.846	42.39	54.0	11.61	AV	142.00	400	Vertical	Pass
6	17015.870	53.73	74.0	20.27	Peak	77.00	100	Vertical	Pass
6**	17015.870	43.39	54.0	10.61	AV	77.00	100	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1329.592	44.04	74.0	29.96	Peak	202.00	200	Horizontal	Pass
1**	1329.592	34.24	54.0	19.76	AV	202.00	200	Horizontal	Pass
2	2996.251	49.04	74.0	24.96	Peak	328.00	200	Horizontal	Pass
2**	2996.251	38.98	54.0	15.02	AV	328.00	200	Horizontal	Pass
3	4814.299	50.40	74.0	23.60	Peak	305.00	200	Horizontal	Pass
3**	4814.299	42.49	54.0	11.51	AV	305.00	200	Horizontal	Pass
4	6883.707	54.72	74.0	19.28	Peak	316.00	100	Horizontal	Pass
4**	6883.707	42.83	54.0	11.17	AV	316.00	100	Horizontal	Pass
5	12486.959	55.75	74.0	18.25	Peak	213.00	200	Horizontal	Pass
5**	12486.959	45.26	54.0	8.74	AV	213.00	200	Horizontal	Pass
6	17094.138	54.25	74.0	19.75	Peak	353.00	400	Horizontal	Pass
6**	17094.138	45.45	54.0	8.55	AV	353.00	400	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11ax40(SU) Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1335.014	45.05	74.0	28.95	Peak	224.00	100	Vertical	Pass
1**	1335.014	36.49	54.0	17.51	AV	224.00	100	Vertical	Pass
2	2982.162	51.69	74.0	22.31	Peak	325.00	200	Vertical	Pass
2**	2982.162	39.40	54.0	14.60	AV	325.00	200	Vertical	Pass
3	4855.999	47.06	74.0	26.94	Peak	46.00	200	Vertical	Pass
3**	4855.999	39.68	54.0	14.32	AV	46.00	200	Vertical	Pass
4	7930.367	51.78	74.0	22.22	Peak	156.00	400	Vertical	Pass
4**	7930.367	43.89	54.0	10.11	AV	156.00	400	Vertical	Pass
5	12997.321	53.15	74.0	20.85	Peak	123.00	400	Vertical	Pass
5**	12997.321	45.77	54.0	8.23	AV	123.00	400	Vertical	Pass
6	17011.023	56.98	74.0	17.02	Peak	268.00	400	Vertical	Pass
6**	17011.023	47.96	54.0	6.04	AV	268.00	400	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1331.639	42.73	74.0	31.27	Peak	314.00	300	Horizontal	Pass
1**	1331.639	37.97	54.0	16.03	AV	314.00	300	Horizontal	Pass
2	2996.049	47.38	74.0	26.62	Peak	242.00	100	Horizontal	Pass
2**	2996.049	38.91	54.0	15.09	AV	242.00	100	Horizontal	Pass
3	4809.663	48.15	74.0	25.85	Peak	212.00	200	Horizontal	Pass
3**	4809.663	42.38	54.0	11.62	AV	212.00	200	Horizontal	Pass
4	6889.889	54.30	74.0	19.70	Peak	207.00	300	Horizontal	Pass
4**	6889.889	47.01	54.0	6.99	AV	207.00	300	Horizontal	Pass
5	12487.231	53.89	74.0	20.11	Peak	104.00	400	Horizontal	Pass
5**	12487.231	47.42	54.0	6.58	AV	104.00	400	Horizontal	Pass
6	17093.449	57.60	74.0	16.40	Peak	285.00	400	Horizontal	Pass
6**	17093.449	43.83	54.0	10.17	AV	285.00	400	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1330.289	43.78	74.0	30.22	Peak	42.00	400	Vertical	Pass
1**	1330.289	40.21	54.0	13.79	AV	42.00	400	Vertical	Pass
2	2979.388	52.50	74.0	21.50	Peak	201.00	100	Vertical	Pass
2**	2979.388	42.92	54.0	11.08	AV	201.00	100	Vertical	Pass
3	4851.602	52.19	74.0	21.81	Peak	335.00	200	Vertical	Pass
3**	4851.602	41.75	54.0	12.25	AV	335.00	200	Vertical	Pass
4	7927.820	56.59	74.0	17.41	Peak	83.00	400	Vertical	Pass
4**	7927.820	45.31	54.0	8.69	AV	83.00	400	Vertical	Pass
5	12994.338	55.72	74.0	18.28	Peak	5.00	200	Vertical	Pass
5**	12994.338	43.52	54.0	10.48	AV	5.00	200	Vertical	Pass
6	17012.131	57.81	74.0	16.19	Peak	180.00	100	Vertical	Pass
6**	17012.131	45.47	54.0	8.53	AV	180.00	100	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1328.158	45.08	74.0	28.92	Peak	215.00	100	Horizontal	Pass
1**	1328.158	35.65	54.0	18.35	AV	215.00	100	Horizontal	Pass
2	2999.599	52.68	74.0	21.32	Peak	301.00	100	Horizontal	Pass
2**	2999.599	42.67	54.0	11.33	AV	301.00	100	Horizontal	Pass
3	4809.911	47.85	74.0	26.15	Peak	53.00	200	Horizontal	Pass
3**	4809.911	42.39	54.0	11.61	AV	53.00	200	Horizontal	Pass
4	6890.078	51.39	74.0	22.61	Peak	317.00	300	Horizontal	Pass
4**	6890.078	44.44	54.0	9.56	AV	317.00	300	Horizontal	Pass
5	12491.565	53.90	74.0	20.10	Peak	327.00	300	Horizontal	Pass
5**	12491.565	46.67	54.0	7.33	AV	327.00	300	Horizontal	Pass
6	17088.068	55.21	74.0	18.79	Peak	34.00	100	Horizontal	Pass
6**	17088.068	43.73	54.0	10.27	AV	34.00	100	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1333.989	45.10	74.0	28.90	Peak	325.00	200	Vertical	Pass
1**	1333.989	39.59	54.0	14.41	AV	325.00	200	Vertical	Pass
2	2980.530	49.03	74.0	24.97	Peak	356.00	400	Vertical	Pass
2**	2980.530	44.63	54.0	9.37	AV	356.00	400	Vertical	Pass
3	4854.343	47.65	74.0	26.35	Peak	58.00	200	Vertical	Pass
3**	4854.343	39.36	54.0	14.64	AV	58.00	200	Vertical	Pass
4	7927.517	52.09	74.0	21.91	Peak	175.00	400	Vertical	Pass
4**	7927.517	46.75	54.0	7.25	AV	175.00	400	Vertical	Pass
5	12992.707	53.67	74.0	20.33	Peak	145.00	400	Vertical	Pass
5**	12992.707	46.84	54.0	7.16	AV	145.00	400	Vertical	Pass
6	17015.219	52.81	74.0	21.19	Peak	163.00	200	Vertical	Pass
6**	17015.219	44.47	54.0	9.53	AV	163.00	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.

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

Note ⁵: All antenna were pre tested, but only the worst case has been reported in this report.

Test Data

Antenna 3

802.11b LOW CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2384.482	56.79	74.0	17.21	Peak	114.00	100	Horizontal	Pass
1**	2384.482	49.89	54.0	4.11	AV	114.00	100	Horizontal	Pass
2	2390.000	57.02	74.0	16.98	Peak	83.00	100	Horizontal	Pass
2**	2390.000	47.06	54.0	6.94	AV	83.00	100	Horizontal	Pass

802.11b HIGH CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	55.63	74.0	18.37	Peak	181.00	200	Horizontal	Pass
1**	2483.500	47.73	54.0	6.27	AV	181.00	200	Horizontal	Pass
2	2487.854	58.79	74.0	15.21	Peak	149.00	200	Horizontal	Pass
2**	2487.854	49.95	54.0	4.05	AV	149.00	200	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	2383.475	59.43	74.0	14.57	Peak	111.00	200	Horizontal	Pass
1**	2383.475	48.69	54.0	5.31	AV	111.00	200	Horizontal	Pass
2	2390.000	54.07	74.0	19.93	Peak	80.00	300	Horizontal	Pass
2**	2390.000	46.72	54.0	7.28	AV	80.00	300	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	55.65	74.0	18.35	Peak	249.00	100	Horizontal	Pass
1**	2483.500	47.57	54.0	6.43	AV	249.00	100	Horizontal	Pass
2	2486.221	58	74.0	16.00	Peak	221.00	100	Horizontal	Pass
2**	2486.221	49.44	54.0	4.56	AV	221.00	100	Horizontal	Pass

802.11n20 LOW CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2385.181	57.72	74.0	16.28	Peak	278.00	300	Horizontal	Pass
1**	2385.181	49.07	54.0	4.93	AV	278.00	300	Horizontal	Pass
2	2390.000	56.02	74.0	17.98	Peak	168.00	300	Horizontal	Pass
2**	2390.000	45.29	54.0	8.71	AV	168.00	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	57.42	74.0	16.58	Peak	15.00	200	Horizontal	Pass
1**	2483.500	46.91	54.0	7.09	AV	15.00	200	Horizontal	Pass
2	2487.232	58.26	74.0	15.74	Peak	24.00	300	Horizontal	Pass
2**	2487.232	46.71	54.0	7.29	AV	24.00	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	2384.258	58.77	74.0	15.23	Peak	17.00	100	Horizontal	Pass
1**	2384.258	48.95	54.0	5.05	AV	17.00	100	Horizontal	Pass
2	2390.000	54.16	74.0	19.84	Peak	26.00	100	Horizontal	Pass
2**	2390.000	45.96	54.0	8.04	AV	26.00	100	Horizontal	Pass

802.11n40 HIGH CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	55.52	74.0	18.48	Peak	174.00	200	Horizontal	Pass
1**	2483.500	45.47	54.0	8.53	AV	174.00	200	Horizontal	Pass
2	2486.116	60.26	74.0	13.74	Peak	280.00	300	Horizontal	Pass
2**	2486.116	48.83	54.0	5.17	AV	280.00	300	Horizontal	Pass

802.11ax20(SU) LOW CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2384.676	57.99	74.0	16.01	Peak	322.00	300	Horizontal	Pass
1**	2384.676	49.55	54.0	4.45	AV	322.00	300	Horizontal	Pass
2	2390.000	56.73	74.0	17.27	Peak	305.00	100	Horizontal	Pass
2**	2390.000	46.41	54.0	7.59	AV	305.00	100	Horizontal	Pass

802.11ax20(SU) HIGH CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	55.35	74.0	18.65	Peak	2.00	200	Horizontal	Pass
1**	2483.500	48	54.0	6.00	AV	2.00	200	Horizontal	Pass
2	2487.057	58.07	74.0	15.93	Peak	168.00	100	Horizontal	Pass
2**	2487.057	49.3	54.0	4.70	AV	168.00	100	Horizontal	Pass

802.11ax40(SU) LOW CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2384.881	56.73	74.0	17.27	Peak	216.00	300	Horizontal	Pass
1**	2384.881	50.6	54.0	3.40	AV	216.00	300	Horizontal	Pass
2	2390.000	53.59	74.0	20.41	Peak	265.00	300	Horizontal	Pass
2**	2390.000	45.87	54.0	8.13	AV	265.00	300	Horizontal	Pass

802.11ax40(SU) HIGH CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	55.56	74.0	18.44	Peak	94.00	300	Horizontal	Pass
1**	2483.500	46.88	54.0	7.12	AV	94.00	300	Horizontal	Pass
2	2487.289	57.1	74.0	16.90	Peak	214.00	200	Horizontal	Pass
2**	2487.289	47.52	54.0	6.48	AV	214.00	200	Horizontal	Pass

802.11ax20(RU26) LOW CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2383.461	58.7	74.0	15.30	Peak	274.00	300	Horizontal	Pass
1**	2383.461	49.56	54.0	4.44	AV	274.00	300	Horizontal	Pass
2	2390.000	57.59	74.0	16.41	Peak	190.00	200	Horizontal	Pass
2**	2390.000	45.24	54.0	8.76	AV	190.00	200	Horizontal	Pass

802.11ax20(RU26) HIGH CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	52.85	74.0	21.15	Peak	304.00	300	Horizontal	Pass
1**	2483.500	48.22	54.0	5.78	AV	304.00	300	Horizontal	Pass
2	2488.274	58.78	74.0	15.22	Peak	149.00	100	Horizontal	Pass
2**	2488.274	46.93	54.0	7.07	AV	149.00	100	Horizontal	Pass

802.11ax40(RU26) LOW CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2382.968	58.79	74.0	15.21	Peak	25.00	200	Horizontal	Pass
1**	2382.968	49.31	54.0	4.69	AV	25.00	200	Horizontal	Pass
2	2390.000	54.96	74.0	19.04	Peak	242.00	200	Horizontal	Pass
2**	2390.000	43.61	54.0	10.39	AV	242.00	200	Horizontal	Pass

802.11ax40(RU26) HIGH CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	55.09	74.0	18.91	Peak	185.00	200	Horizontal	Pass
1**	2483.500	47.1	54.0	6.90	AV	185.00	200	Horizontal	Pass
2	2488.183	55.91	74.0	18.09	Peak	294.00	200	Horizontal	Pass
2**	2488.183	48.59	54.0	5.41	AV	294.00	200	Horizontal	Pass

A.8 Power Spectral Density (PSD)

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

Note ²: All antenna were pre tested, but only the worst case has been reported in this report.

Test Data

Antenna 3

802.11b Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-5.28	8
Middle	-5.58	8
High	-6.14	8

802.11g Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-9.45	8
Middle	-8.77	8
High	-8.86	8

802.11n-20 MHz Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-8.40	8
Middle	-8.97	8
High	-8.12	8

802.11n-40 MHz Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-10.80	8
Middle	-10.47	8
High	-11.88	8

802.11ax-20 MHz(SU) Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-9.60	8
Middle	-8.85	8
High	-9.18	8

802.11ax-40 MHz(SU) Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-12.57	8
Middle	-12.60	8
High	-11.87	8

802.11ax-20 MHz(RU26) Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-3.86	8
Middle	-2.60	8
High	-2.62	8

802.11ax-40 MHz(RU26) Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-3.87	8
Middle	-2.19	8
High	-3.35	8

Test Plots

Antenna 3

802.11b LOW CHANNEL



802.11b MIDDLE CHANNEL



802.11b HIGH CHANNEL



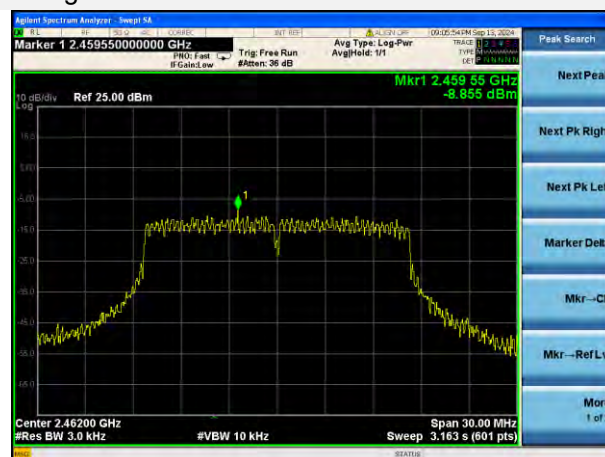
802.11g LOW CHANNEL



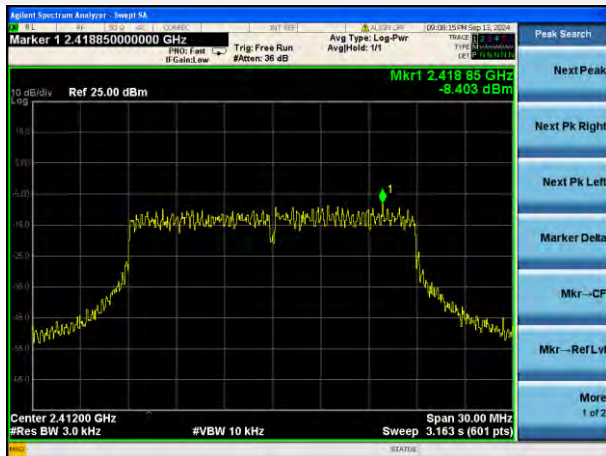
802.11g MIDDLE CHANNEL



802.11g HIGH CHANNEL



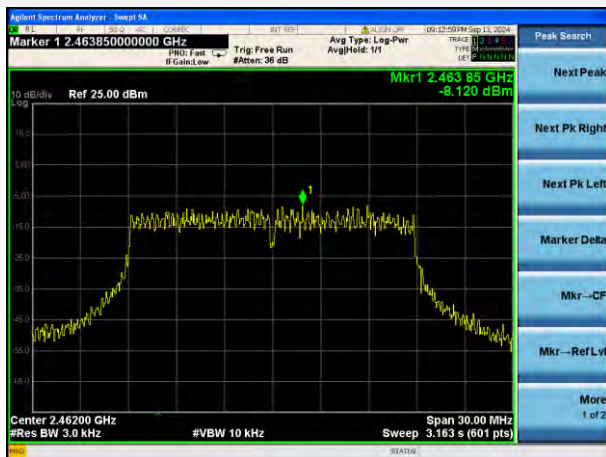
802.11n-20 MHz LOW CHANNEL



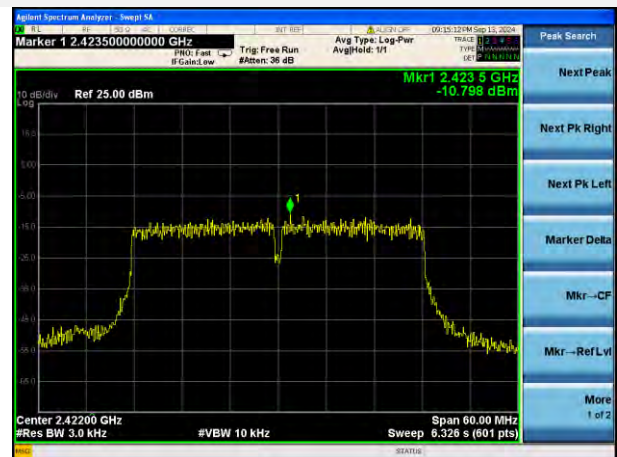
802.11n-20 MHz MIDDLE CHANNEL



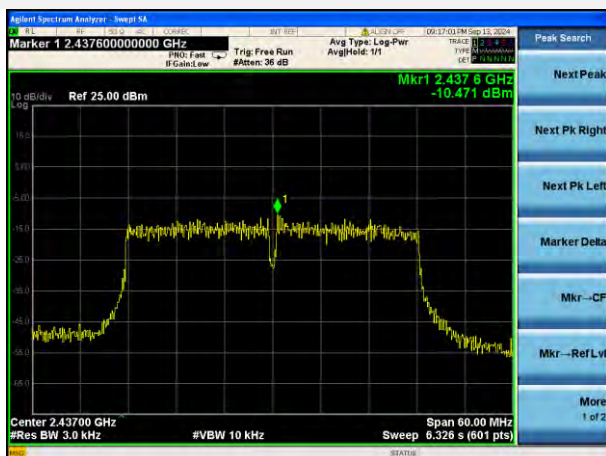
802.11n-20 MHz HIGH CHANNEL



802.11n-40 MHz LOW CHANNEL



802.11n-40 MHz MIDDLE CHANNEL



802.11n-40 MHz HIGH CHANNEL



802.11ax-20 MHz(SU) LOW CHANNEL



802.11ax-20 MHz(SU) MIDDLE CHANNEL



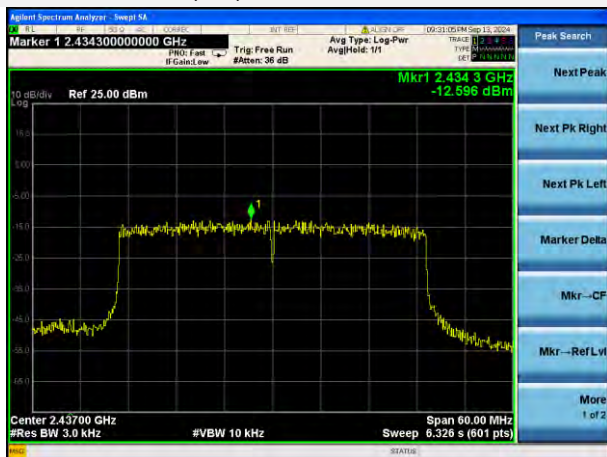
802.11ax-20 MHz(SU) HIGH CHANNEL



802.11ax-40 MHz(SU) LOW CHANNEL



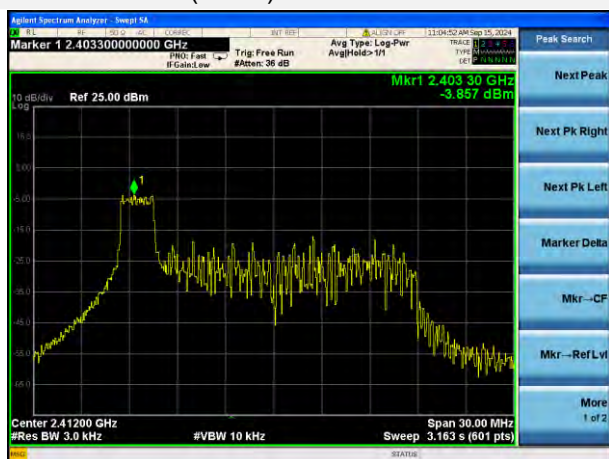
802.11ax-40 MHz(SU) MIDDLE CHANNEL



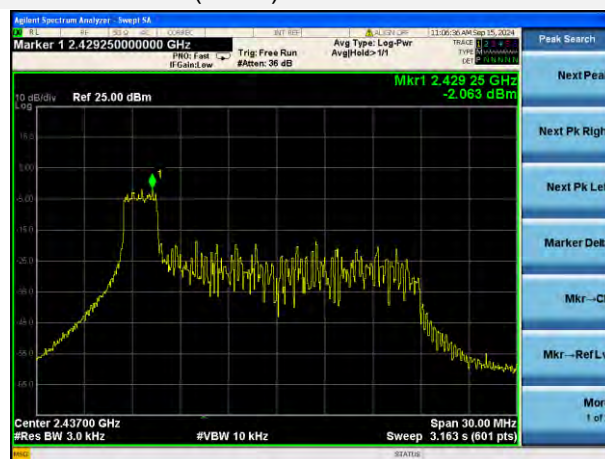
802.11ax-40 MHz(SU) HIGH CHANNEL



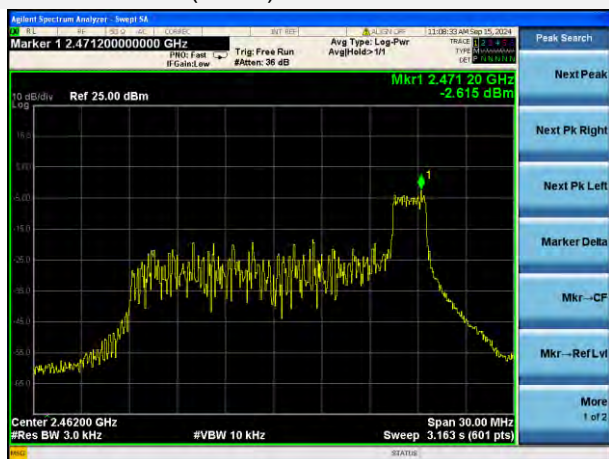
802.11ax-20 MHz(RU26) LOW CHANNEL



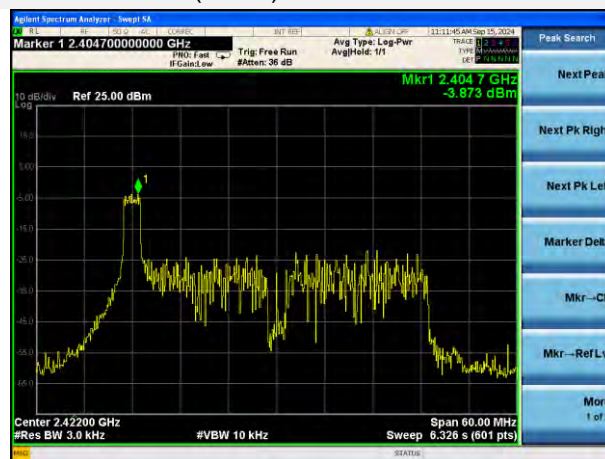
802.11ax-20 MHz(RU26) MIDDLE CHANNEL



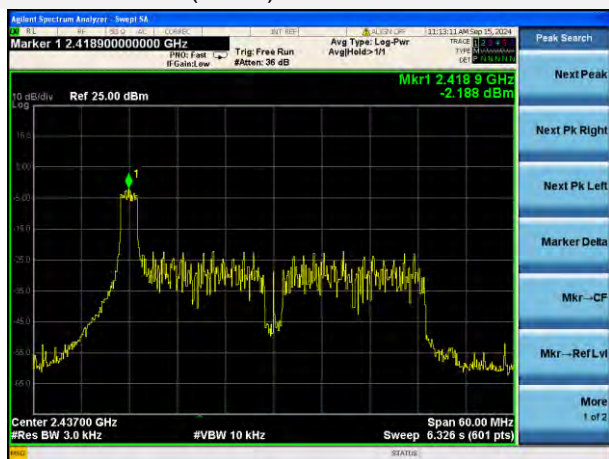
802.11ax-20 MHz(RU26) HIGH CHANNEL



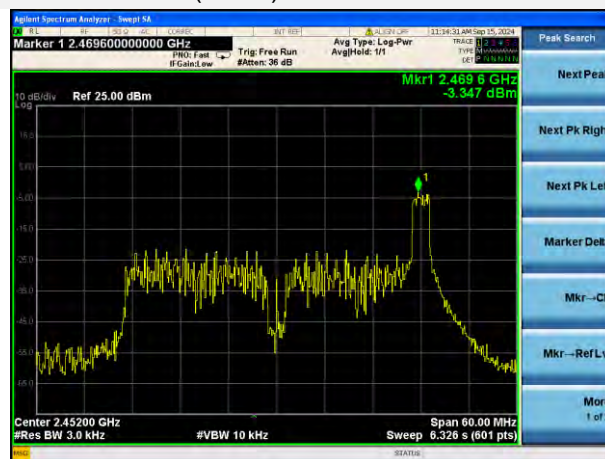
802.11ax-40 MHz(RU26) LOW CHANNEL



802.11ax-40 MHz(RU26) MIDDLE CHANNEL



802.11ax-40 MHz(RU26) HIGH CHANNEL



ANNEX B TEST SETUP PHOTOS

Please refer the document “BL-SZ2490568-AR.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SZ2490568-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SZ2490568-AI.PDF”.

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--END OF REPORT--