

TEST REPORT

Applicant: Quectel Wireless Solutions Co., Ltd.
EUT Description: Wi-Fi & Bluetooth Module
Model: FCS961K-L
Brand: QUECTEL
FCC ID: XMR2025FCS961KL
Standards: FCC 47 CFR Part 15 Subpart C
Date of Receipt: 2025/09/04
Date of Test: 2025/09/04 to 2025/09/29
Date of Issue: 2025/09/29

TOWE. tested the above equipment in accordance with the requirements set forth in the above standards. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

the results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. It is the manufacturer's responsibility to assure that additional production units of the model are manufactured with identical electrical and mechanical components. All sample tested were in good operating condition throughout the entire test program. Measurement Uncertainties are published for informational purposes only and were not taken into account unless noted otherwise. without written approval of TOWE, the test report shall not be reproduced except in full.



A handwritten signature in black ink, appearing to read 'Jim Huang'.

Jim Huang
Approved By:

A handwritten signature in black ink, appearing to read 'Carey Chen'.

Carey Chen
Reviewed By:

Revision History

Rev.	Issue Date	Description	Revised by
01	2025/09/29	Original	Carey Chen

Summary of Test Results

Clause	FCC Part	Test Items	Result
4.1	§15.203/15.247(b)	Antenna Requirement	PASS
4.2	§15.207	AC Power Line Conducted Emission	N/A
4.3	§15.247 (b)(3)	Output Power	PASS
4.4	§15.247 (a)(2)	Occupied Bandwidth	Reporting purposes only
4.5	§15.247 (e)	Power Spectral Density	PASS
4.6	§15.247(d)	Band Edge for Conducted Emissions	PASS
4.7	§15.247(d)	Spurious RF Conducted Emissions	PASS
4.8	§15.205/15.209	Radiated Spurious emissions and Band Edge	PASS

Test Method: ANSI C63.10:2020, KDB 558074 D01 15.247 Mesa Guidance v05r02.

Remark:

1. Pass is EUT meets standard requirements.
2. The EUT is DC power supply, "N/A" denotes "not applicable".

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1 General Description

1.1 Lab Information

1.1.1 Testing Location

These measurements tests were conducted at the Sushi TOWE Wireless Testing(Shenzhen) Co., Ltd. facility located at F401 and F101, Building E, Hongwei Industrial Zone, Liuxian 3rd Road, Bao'an District, Shenzhen, China. The measurement facility is compliant with the test site requirements specified in ANSI C63.4-2014

Tel.: +86-755-27212361

Contact Email: info@towewireless.com

1.1.2 Test Facility / Accreditations

A2LA (Certificate Number: 7088.01)

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).

FCC Designation No.: CN1353

Sushi TOWE Wireless Testing(Shenzhen) Co., Ltd. has been recognized as an accredited testing laboratory. Designation Number: CN1353.

ISED CAB identifier: CN0152

Sushi TOWE Wireless Testing(Shenzhen) Co., Ltd. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0152

Company Number: 31000

1.2 Client Information

1.2.1 Applicant

Applicant:	Quectel Wireless Solutions Co., Ltd.
Address:	Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai, China, 200233

1.2.2 Manufacturer

Manufacturer:	Quectel Wireless Solutions Co., Ltd.
Address:	Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai, China, 200233

1.3 Product Information

EUT Description:	Wi-Fi & Bluetooth Module		
Model:	FCS961K-L		
Brand:	QUECTEL		
Hardware Version:	R1.0		
Software Version:	NA		
SN:	RF Conducted & RSE	E1M24E907000059	
Modulation Type:	802.11b:	DSSS-DBPSK, DQPSK, CCK	
	802.11g/n:	OFDM-BPSK, QPSK, 16QAM, 64QAM	
	802.11VHT:	OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM	
	802.11ax:	OFDM/OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM	
Smart System:	☒ SISO	802.11b/g/n/VHT/ax	/
	☐ MIMO	802.11n/ax	()TX()RX
	☐ CDD	802.11b/g	()TX()RX
Frequency Range:	2400 ~ 2483.5MHz		
Channel Frequency:	20M bandwidth Channel: 2412 ~ 2462MHz 40M bandwidth Channel: 2422 ~ 2452MHz		
Channel Number:	11:	802.11b/g/n20/VHT20/ax20	
	7:	802.11n40/VHT40/ax40	
Antenna Type:	☒ External, ☐ Integrated		
Antenna Gain:	Ant(dBi)		
	0.2		
Remark: The above EUT's information was declared by applicant, please refer to the specifications or user's manual for more detailed description.			

2 Test Configuration

2.1 Test Channel

Frequency Channels							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz
3	2422MHz	6	2437MHz	9	2452MHz	/	
Remark:							
In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:							
Modulation Type		Test Channel		Test Frequency			
802.11b/g/n20 /VHT20/ax20		The Lowest channel (CH1)		2412MHz			
		The Middle channel (CH6)		2437MHz			
		The Highest channel (CH11)		2462MHz			
Modulation Type		Test Channel		Test Frequency			
802.11n40/ VHT40/ax40		The Lowest channel (CH3)		2422MHz			
		The Middle channel (CH6)		2437MHz			
		The Highest channel (CH9)		2452MHz			

2.2 Worst-case configuration and Mode

Modulation Type	SISO - Data Rate	CDD/MIMO()TX()RX Data Rate
802.11b	1 Mbps	N/A
802.11g	6 Mbps	N/A
802.11n20	MCS0 (6.5 Mbps)	N/A
802.11n40	MCS0 (13.5 Mbps)	N/A
802.11ax20	MCS0 (8.6 Mbps)	N/A
802.11ax40	MCS0 (17.2 Mbps)	N/A
Transmitting mode:	Keep the EUT was programmed to be in continuously transmitting mode.	
Normal Link:	Keep the EUT operation to normal function.	

Remark: For 802.11VHT20/40 and 802.11ax20/40 mode, the whole testing have assessed only, 802.11ax20/40 by referring to their higher output power.

2.3 Support Unit used in test

Description	Manufacturer	Model	Serial Number
Development Board*	QUECTEL	SG368Z-WF-EVB	E1C23H816000081
Development Board*	QUECTEL	FCS961K-L-M.2	E1M24EA05000044
Remark: *the information are provided by applicant.			

2.4 Test Environment

Temperature:	Normal: 15°C ~ 35°C
Humidity:	45 ~ 56 % RH Ambient
Voltage:	DC 3.3V
Remark: The testing environment is within the scope of the EUT user manual and meets the requirements of the standard testing environment.	

2.5 Test RF Cable

For all conducted test items: The offset level is set spectrum analyzer to compensate the RF cable loss and attenuator factor between RF conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level will be exactly the RF output level.

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

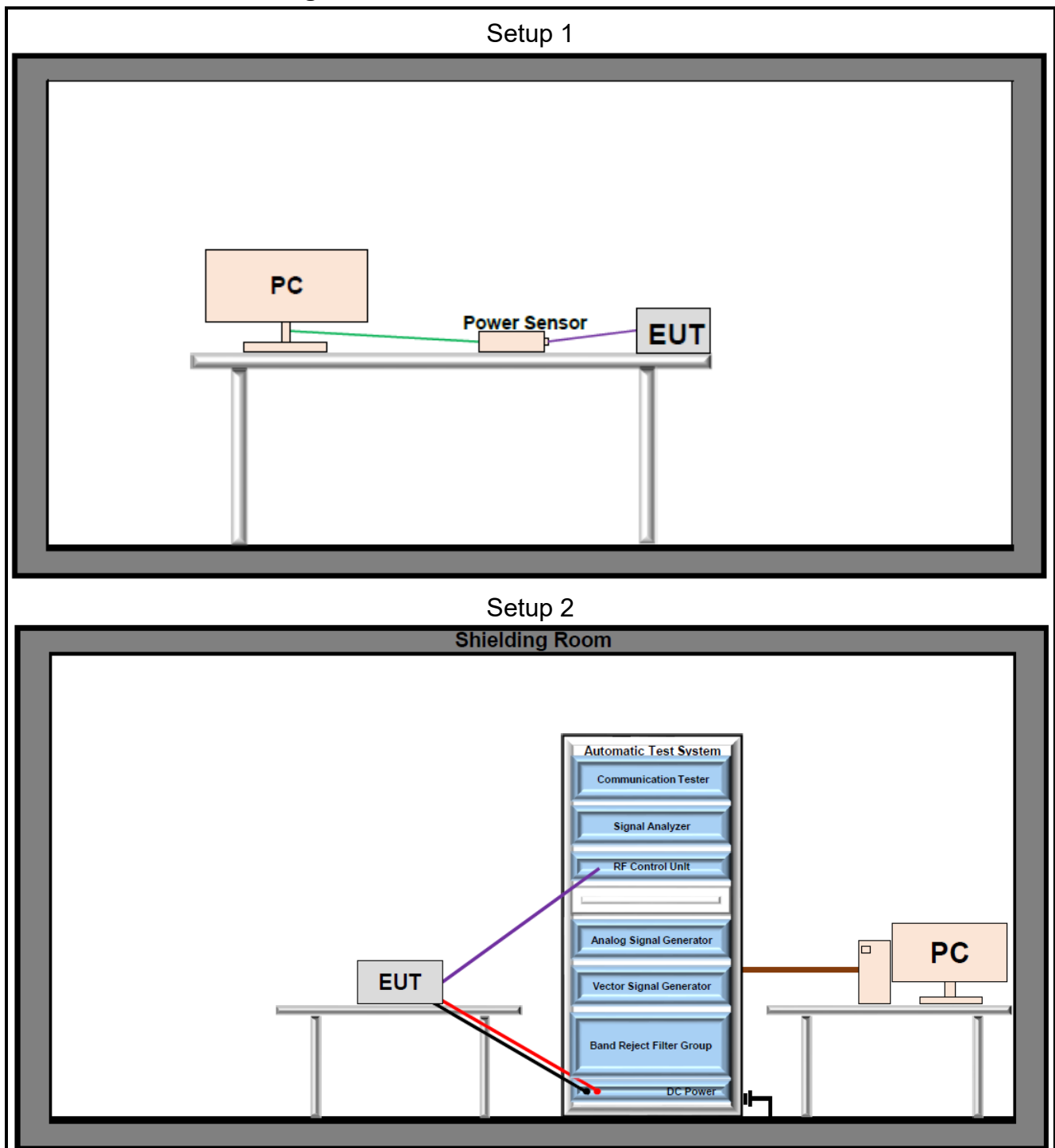
Offset = RF cable loss + attenuator factor.

2.6 Modifications

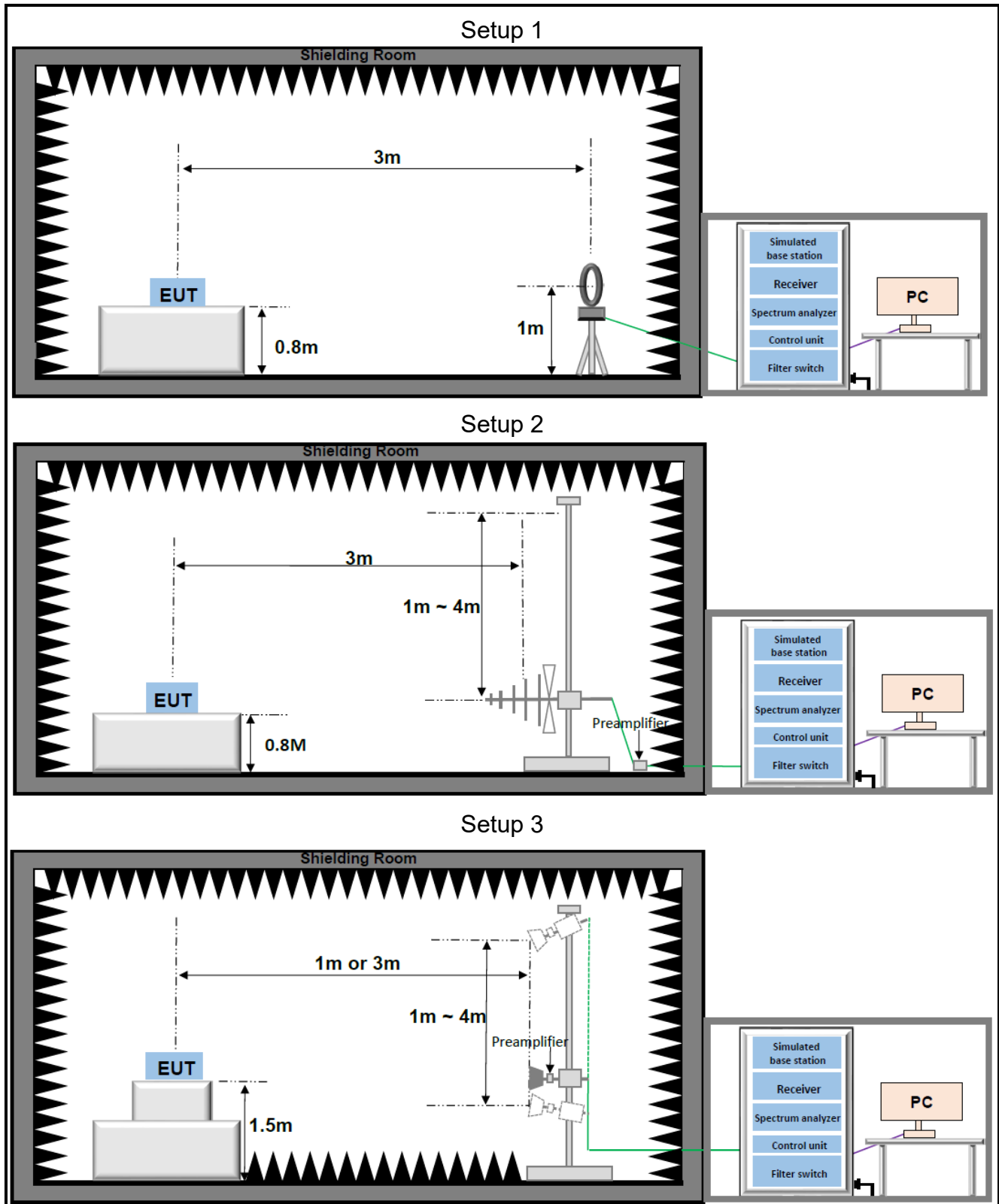
No modifications were made during testing.

2.7 Test Setup Diagram

2.7.1 Conducted Configuration



2.7.2 Radiated Configuration



3 Equipment and Measurement Uncertainty

All test and measuring equipment utilized to perform the tests documented in this report are calibrated on a regular basis, whichever is less, and where applicable is traceable to recognized national standards.

3.1 Test Equipment List

RF Conducted					
Description	Manufacturer	Model	S.N.	Last Due	Cal Due
Signal Analyzer	Keysight	N9020A	US46470429	2025/03/14	2026/03/13
Signal Generator	R&S	SMR20	101027	2025/03/11	2026/03/10
Vector Signal Generator	R&S	SMM100A	549353	2025/05/29	2026/05/28
Power Sensor	Anritsu	MA24408A	12520	2025/05/29	2026/05/28
RF Control Unit	Tonscend	JS0806-2	23C80620671	2025/05/29	2026/05/28
EXA Signal Analyzer, Multi-touch	Keysight	N9010B	MY63440541	2025/05/29	2026/05/28
Attenuator	Yin Saige	SMA-10dBm	N/A	N/A	N/A
Measurement Software	Tonscend	TS1120-3	10659	N/A	N/A

Radiated Emission					
Description	Manufacturer	Model	S.N.	Last Due	Cal Due
Biconic Logarithmic Periodic Antennas	Schwarzbeck	VULB9163	1643	2023/06/25	2026/06/24
Double-Ridged Horn Antennas	Schwarzbeck	BBHA 9120D	2809	2023/06/25	2026/06/24
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	1290	2023/06/25	2026/06/24
Loop Antenna	Schwarzbeck	FMZB 1519C	1519C-028	2023/06/29	2026/06/28
Signal Analyzer	Keysight	N9020A	MY49100252	2025/03/11	2026/03/10
EXA Signal Analyzer, Multi-touch	Keysight	N9010B	MY63440541	2025/05/29	2026/05/28
Wideband Radio Communication Tester	R&S	CMW500	150645	2025/03/11	2026/03/10
Low Noise Amplifier	Tonscend	TAP9K3G40	AP23A8060273	2025/03/11	2027/03/10
Low Noise Amplifier	Tonscend	TAP01018050	AP22G806258	2025/03/11	2027/03/10
Low Noise Amplifier	Tonscend	TAP18040048	AP22G806247	2025/03/11	2027/03/10
Hygrometer	BINGYU	HTC-1	N/A	2025/07/25	2026/07/24
Band Reject Filter Group	Townshend	JS0806-F	23A806F0652	N/A	N/A
Test Software	Tonscend	TS+	Version: 5.0.0	N/A	N/A

3.2 Measurement Uncertainty

Parameter	U_{lab}
Frequency Error	679.98Hz
Output Power	0.76dB
Conducted Spurious Emissions	2.22dB
Radiated Emissions(9kHz~30MHz)	2.40dB
Radiated Emissions(30MHz~1000MHz)	4.66dB
Radiated Emissions(1GHz~18GHz)	5.42dB
Radiated Emissions(18GHz~40GHz)	5.46dB

Uncertainty figures are valid to a confidence level of 95%

4 Test Results

4.1 Antenna Requirement

Standard Applicable:	47 CFR Part 15C Section 15.203 /247(b)
15.203 requirement: 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, 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. 15.247(b) (4) requirement: The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.	
The antenna gain and type as provided by the manufacturer are as follows: The antenna Type is External. With Antenna gain is 0.2dBi. Antenna Anti-Replacement Construction: An embedded-in antenna design is used.	

4.2 Output Power

Limits

If with directional antenna gains less than 6 dBi, the limit is 30dBm.

Test Procedure

ANSI C63.10:2020 Section 11.9.1.2(PKPM1) or 11.9.2.3.2(AVGPM-G)

Test Settings

1. Set to the maximum power setting and enable the EUT transmit continuously.
2. The power output was measured on the EUT antenna port using RF Cable with an attenuator connected to a power sensor. Output power was read directly from the power sensor.
3. Measure and record the results in the test report.

Test Setup

Refer to section 2.7.1 Setup 1 for details.

Measuring Instruments

The measuring equipment is listed in the section 3.1 of this test report.

Test Result

The detailed test data see: **Appendix**.

4.3 Occupied Bandwidth

Limits

DTSBW: The minimum 6 dB bandwidth shall be at least 500 kHz.

99%BW: None, for reporting purposes only.

Test Procedure

ANSI C63.10:2020 Section 11.8.2 and 6.9.3

Test Settings

1. Set to the maximum power setting and enable the EUT transmit continuously.
2. The transmitter output is connected to a spectrum analyzer:
3. RBW = 100kHz(DTS)
4. RBW = 1% - 5%(99%BW)
5. VBW $\geq$ 3 times the RBW
6. Sweep = Auto
7. Detector = Peak
8. Trace = Max hold
9. The trace was allowed to stabilize
10. Measure and record the results in the test report.

Test Notes

DTS: The signal analyzers' automatic bandwidth measurement capability of the spectrum analyzer was used to perform the 6dB bandwidth measurement. The "X" dB bandwidth parameter was set to X= 6. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.

Test Setup

Refer to section 2.7.1 Setup 2 for details.

Measuring Instruments

The measuring equipment is listed in the section 3.1 of this test report.

Test Result

The detailed test data see: **Appendix**.

4.4 Power Spectral Density

Limits

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

Test Procedure

ANSI C63.10:2020 Section 11.10.2(PKPSD)

Test Settings

1. Set to the maximum power setting and enable the EUT transmit continuously
2. The transmitter output is connected to a spectrum analyzer
3. $3\text{kHz} \leq \text{RBW} \leq 100\text{ kHz}$
(If measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat.)
4. $\text{VBW} \geq 3$ times the RBW
5. Span = 1.5 times the DTS bandwidth
6. Sweep = Auto
7. Detector = Peak
8. Trace = Max hold
9. The trace was allowed to stabilize
10. Measure and record the results in the test report.

Test Setup

Refer to section 2.7.1 Setup 2 for details.

Measuring Instruments

The measuring equipment is listed in the section 3.1 of this test report.

Test Result

The detailed test data see: **Appendix**.

4.5 Band Edge for Conducted Emissions

Limits

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, provided the transmitter demonstrates compliance with the peak conducted power limits.

If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph 15.247(b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

Test Procedure

ANSI C63.10:2020 Section 11.11.3

Test Settings

1. Set to the maximum power setting and enable the EUT transmit continuously
2. The transmitter output is connected to a spectrum analyzer
3. RBW = 100kHz
4. VBW = 300kHz
5. Point $\geq 2 \times \text{span/RBW}$
6. Sweep = Auto
7. Detector = Peak
8. Trace = Max hold
9. The trace was allowed to stabilize
10. Measure and record the results in the test report

Test Setup

Refer to section 2.7.1 Setup 2 for details.

Measuring Instruments

The measuring equipment is listed in the section 3.1 of this test report.

Test Result

The detailed test data see: **Appendix**.

4.6 Spurious RF Conducted Emissions

Limits

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, provided the transmitter demonstrates compliance with the peak conducted power limits.

If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph 15.247(b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

Test Procedure

ANSI C63.10:2020 Section 11.11.3

Test Settings

1. Set to the maximum power setting and enable the EUT transmit continuously.
2. Activate frequency hopping function if necessary.
3. The transmitter output is connected to a spectrum analyzer
4. The spectrum from 30MHz - 26.5GHz
5. RBW = 100kHz
6. VBW = 300kHz
7. Sweep = Auto
8. Detector = Peak
9. Trace = Max hold
10. The trace was allowed to stabilize
11. Measure and record the results in the test report

Test Setup

Refer to section 2.7.1 Setup 2 for details.

Measuring Instruments

The measuring equipment is listed in the section 3.1 of this test report.

Test Result

The detailed test data see: **Appendix**.

4.7 Radiated Spurious Emissions and Band Edge

Limits

Spurious emissions are permitted in an of the frequency bands:

MHz	MHz	MHz	MHz	GHz	GHz
0.090 - 0.110	12.29 - 12.293	149.9 - 150.05	1660 - 1710	4.5 - 5.15	14.47 - 14.5
0.495 - 0.505	12.51975 - 12.52025	156.52475 - 156.52525	1718.8 - 1722.2	5.35 - 5.46	15.35 - 16.2
2.1735 - 2.1905	12.5767 - 12.57725	156.7 - 156.9	2200 - 2300	7.25 - 7.75	17.7 - 21.4
4.125 - 128	13.36 - 13.41	162.0125 - 167.17	2310 - 2390	8.025 - 8.5	22.01 - 23.12
4.17725 - 4.17775	16.42 - 16.423	167.72 - 173.2	2483.5 - 2500	9.0 - 9.2	23.6 - 24.0
4.20725 - 4.20775	16.69475 - 16.69525	240 - 285	2655 - 2900	9.3 - 9.5	31.2 - 31.8
6.215 - 6.218	1680425 - 1680475	322 - 335.4	3260 - 3267	10.6 - 12.7	36.43 - 36.5
6.26775 - 6.26825	25.5 - 25.67	399.9 - 410	3332 - 3339	13.25 - 13.4	
6.31175 - 6.31225	37.5 - 38.25	608 - 614	3345.8 - 3358		
8.291 - 8.294	73 - 74.6	960 - 1240	3600 - 4400		
8.362 - 8.366	74.8 - 75.2	1300 - 1427			
8.37625 - 8.38675	108 - 121.94	1435 - 1626.5			
8.41425 - 8.41475	123 - 138	1645.5 - 1646.5			

Radiated disturbance of an intentional radiator:

Frequency	Field strength ($\mu\text{V/m}$)	Limit (dB $\mu\text{V/m}$)	Remark	Measurement distance (m)
0.009MHz-0.490MHz	2400/F(kHz)	-	-	300
0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
1.705MHz-30MHz	30	-	-	30
30MHz-88MHz	100	40.0	Quasi-peak	3
88MHz-216MHz	150	43.5	Quasi-peak	3
216MHz-960MHz	200	46.0	Quasi-peak	3
960MHz-1GHz	500	54.0	Quasi-peak	3
Above 1GHz	500	74.0	Peak	3
		54.0	Average	

Test Procedure

ANSI C63.10:2020 Section 6.4 & 6.5 & 6.6

Test Settings

- For radiated emissions measurements performed at frequencies less than or equal to 1GHz, the EUT shall be placed on a RF-transparent table or support at a nominal height of 80cm above the reference ground plane.
- For radiated emissions measurements performed at frequencies above 1GHz, the EUT shall be placed on a RF-transparent table or support at a nominal height of 150cm above the ground plane.
- Radiated measurements shall be made with the measurement antenna positioned in both horizontal and vertical polarization. The measurement antenna shall be varied from 1m to 4m in height above the reference ground in a search for the relative positioning that produces the maximum radiated signal level (i.e, field strength or received power), when orienting the measurement antenna in vertical polarization, the minimum height of the lowest element of the antenna shall clear the site reference ground plane by at least 25cm.
- For each suspected emission, the EUT was ranged its worst case and then tune the antenna tower(from 1~4m) and turntable(from 0~360°) find the maximum reading. Preamplifier and a high pass filter are used for the test in order get better signal level comply with the guidelines.
- Set to the maximum power setting and enable the EUT transmit continuously.

6. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.
7. spectrum analyzer setting:
Measurements 30MHz ~ 1000MHz: RBW = 120 kHz; VBW ≥ 300 kHz; Detector = Peak
Measurements Above 1000MHz: RBW = 1 MHz; VBW ≥ 3 MHz; Detector = Peak
Average Measurements Above 1000MHz:
RBW = 1 MHz, VBW ≥ 1/T, with peak detector for average measurements.
8. The field strength is calculated by adding the Antenna Factor, Cable Factor. The basic equation with a sample calculation is as follows:
Level = Reading(dBμV) + AF(dB/m) + Factor(dB):
AF = Antenna Factor(dB/m)
Factor = Cable Factor(dB) - Preamplifier gain(dB)
Margin = Limit(dBμV/m) – Level(dBμV/m)
9. Repeat above procedures until all frequencies measured was complete.
10. Measure and record the results in the test report.

Test Notes

1. Emissions below 18GHz were measured at a 3-meter test distance while emissions above 18GHz were measured at a 1-meter test distance with the application of a distance correction factor.
2. Radiated spurious emissions were investigated from 9kHz to 30MHz, 30MHz-1GHz and above 1GHz. the disturbance between 9kHz to 30MHz and 18GHz to 40GHz was very low. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be recorded, so only the harmonics had been displayed.
3. These frequencies which near "-" should be ignored because they are Fundamental frequency.

Test Setup

Refer to section 2.7.2 for details.

Measuring Instruments

The measuring equipment is listed in the section 3.1 of this test report.

Test Result

The detailed test data see: **Appendix**.

5 Test Setup Photos

The detailed test data see: **Appendix A - BLEWIFI Setup Photos**

Appendix

DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11b	Ant1	2412	8.560	2407.440	2416.000	0.5	PASS
11b	Ant1	2437	9.040	2432.960	2442.000	0.5	PASS
11b	Ant1	2462	9.800	2456.960	2466.760	0.5	PASS
11g	Ant1	2412	16.320	2403.760	2420.080	0.5	PASS
11g	Ant1	2437	16.280	2428.840	2445.120	0.5	PASS
11g	Ant1	2462	16.360	2453.800	2470.160	0.5	PASS
11n20SISO	Ant1	2412	16.880	2403.840	2420.720	0.5	PASS
11n20SISO	Ant1	2437	15.960	2428.240	2444.200	0.5	PASS
11n20SISO	Ant1	2462	17.640	2453.160	2470.800	0.5	PASS
11n40SISO	Ant1	2422	35.440	2404.160	2439.600	0.5	PASS
11n40SISO	Ant1	2437	33.120	2420.120	2453.240	0.5	PASS
11n40SISO	Ant1	2452	36.320	2433.840	2470.160	0.5	PASS
11ax20SISO	Ant1	2412	18.760	2402.560	2421.320	0.5	PASS
11ax20SISO	Ant1	2437	18.120	2427.720	2445.840	0.5	PASS
11ax20SISO	Ant1	2462	18.720	2452.640	2471.360	0.5	PASS
11ax40SISO	Ant1	2422	37.200	2403.200	2440.400	0.5	PASS
11ax40SISO	Ant1	2437	37.920	2417.960	2455.880	0.5	PASS
11ax40SISO	Ant1	2452	27.040	2437.280	2464.320	0.5	PASS

Test Graphs





11n20ISO-Ant1-2412-PASS



11n20ISO-Ant1-2437-PASS



11n20ISO-Ant1-2462-PASS



11n20ISO-Ant1-2423-PASS



11n40ISO-Ant1-2437-PASS



11n40ISO-Ant1-2452-PASS



11ax20ISO-Ant1-2412-PASS



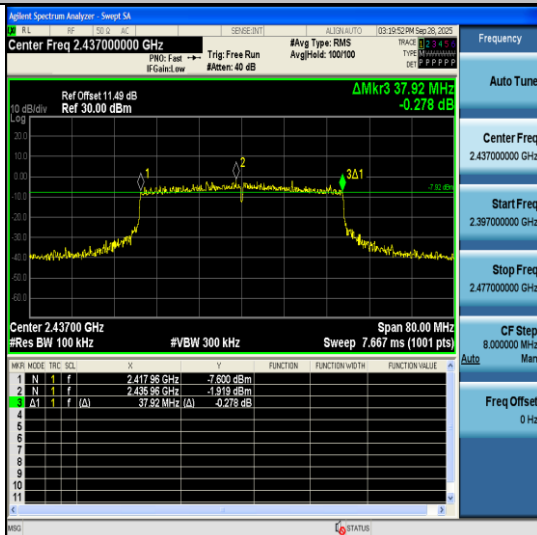
11ax20ISO-Ant1-2437-PASS



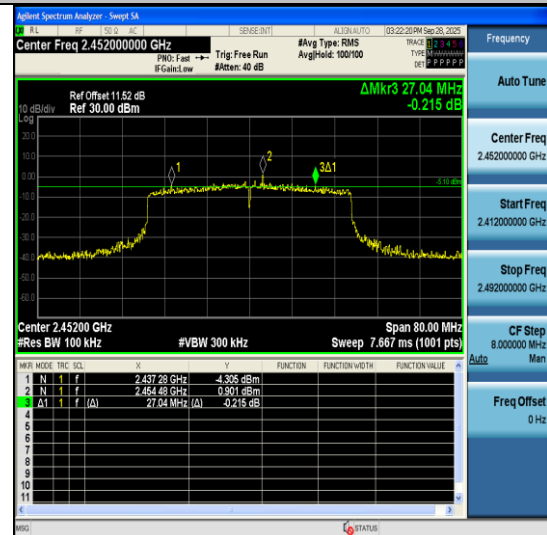
11ax20ISO-Ant1-2462-PASS



11ax40ISO-Ant1-2422-PASS



11ax40ISO-Ant1-2437-PASS



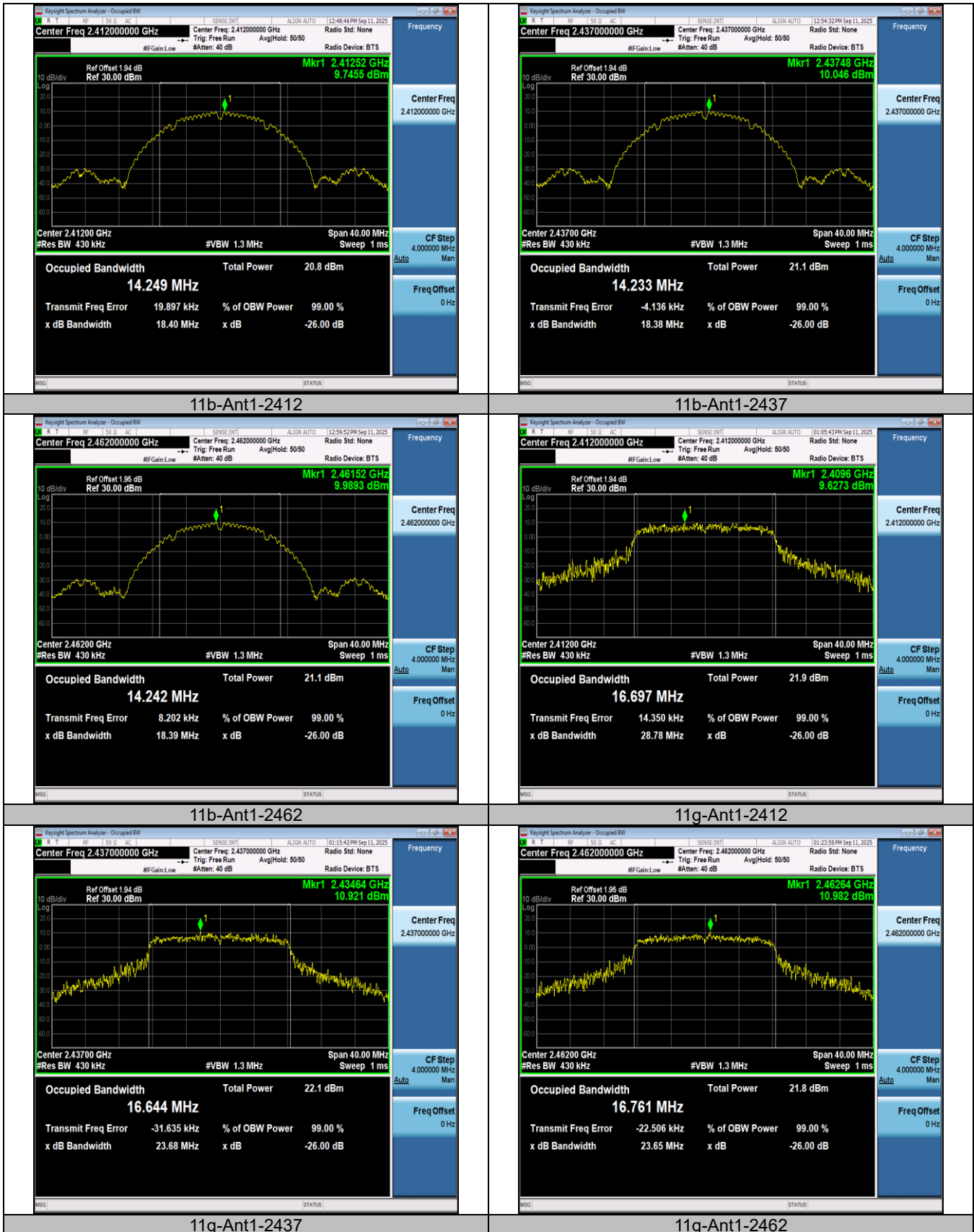
11ax40ISO-Ant1-2452-PASS

Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11b	Ant1	2412	14.249	2404.8954	2419.1444	---	---
11b	Ant1	2437	14.233	2429.8794	2444.1124	---	---
11b	Ant1	2462	14.242	2454.8872	2469.1292	---	---
11g	Ant1	2412	16.697	2403.6659	2420.3629	---	---
11g	Ant1	2437	16.644	2428.6464	2445.2904	---	---
11g	Ant1	2462	16.761	2453.5970	2470.3580	---	---
11n20SISO	Ant1	2412	18.023	2402.9542	2420.9772	---	---
11n20SISO	Ant1	2437	18.288	2427.8081	2446.0961	---	---
11n20SISO	Ant1	2462	18.211	2452.8879	2471.0989	---	---
11n40SISO	Ant1	2422	36.647	2403.6082	2440.2552	---	---
11n40SISO	Ant1	2437	36.651	2418.6277	2455.2787	---	---
11n40SISO	Ant1	2452	36.789	2433.5334	2470.3224	---	---
11ax20SISO	Ant1	2412	19.054	2402.5087	2421.5627	---	---
11ax20SISO	Ant1	2437	18.986	2427.4938	2446.4798	---	---
11ax20SISO	Ant1	2462	19.045	2452.4348	2471.4798	---	---
11ax40SISO	Ant1	2422	37.959	2403.0616	2441.0206	---	---
11ax40SISO	Ant1	2437	37.908	2418.0913	2455.9993	---	---
11ax40SISO	Ant1	2452	37.832	2433.0916	2470.9236	---	---

Test Graphs





11n20SISO-Ant1-2412



11n20SISO-Ant1-2437



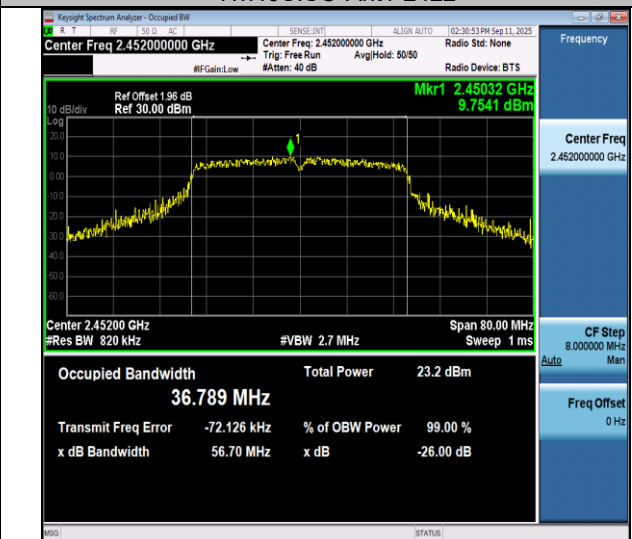
11n20SISO-Ant1-2462



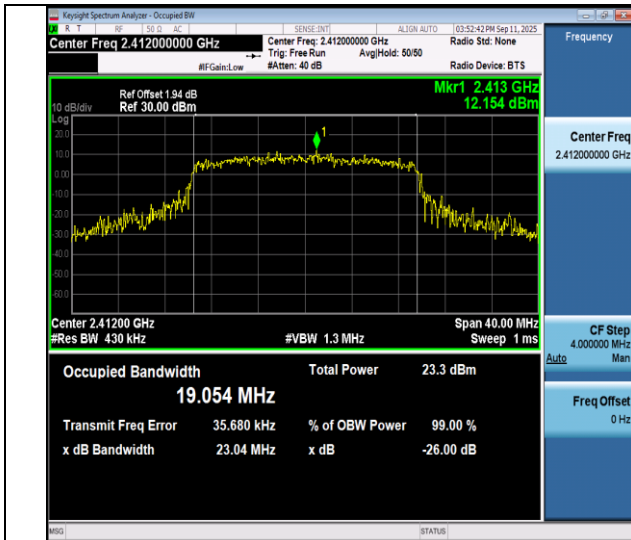
11n40SISO-Ant1-2422



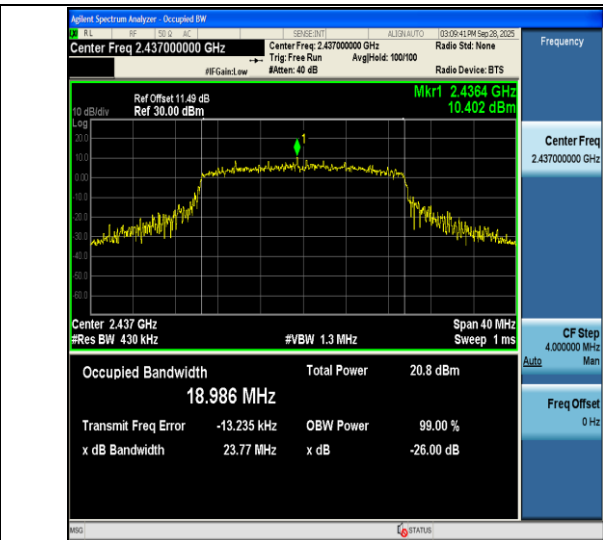
11n40SISO-Ant1-2437



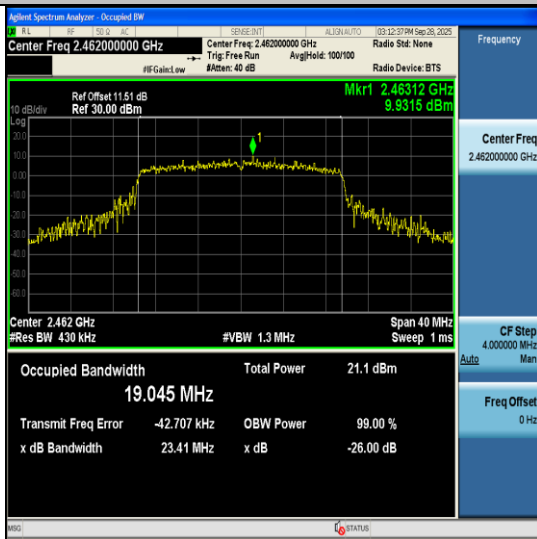
11n40SISO-Ant1-2452



11ax20SISO-Ant1-2412



11ax20SISO-Ant1-2437



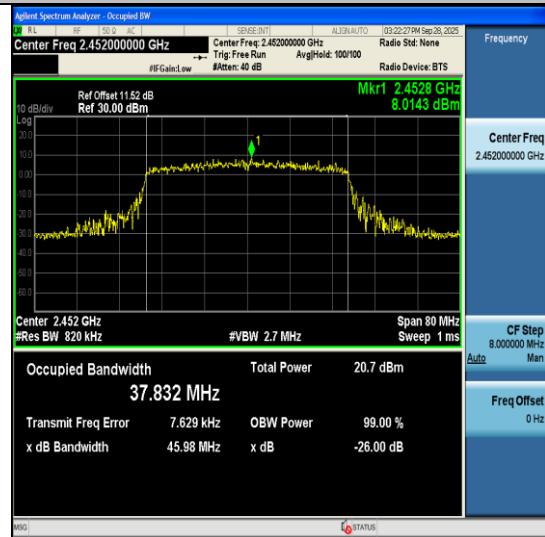
11ax20SISO-Ant1-2462



11ax40SISO-Ant1-2422



11ax40SISO-Ant1-2437



11ax40SISO-Ant1-2452

Maximum conducted output power

Test Result

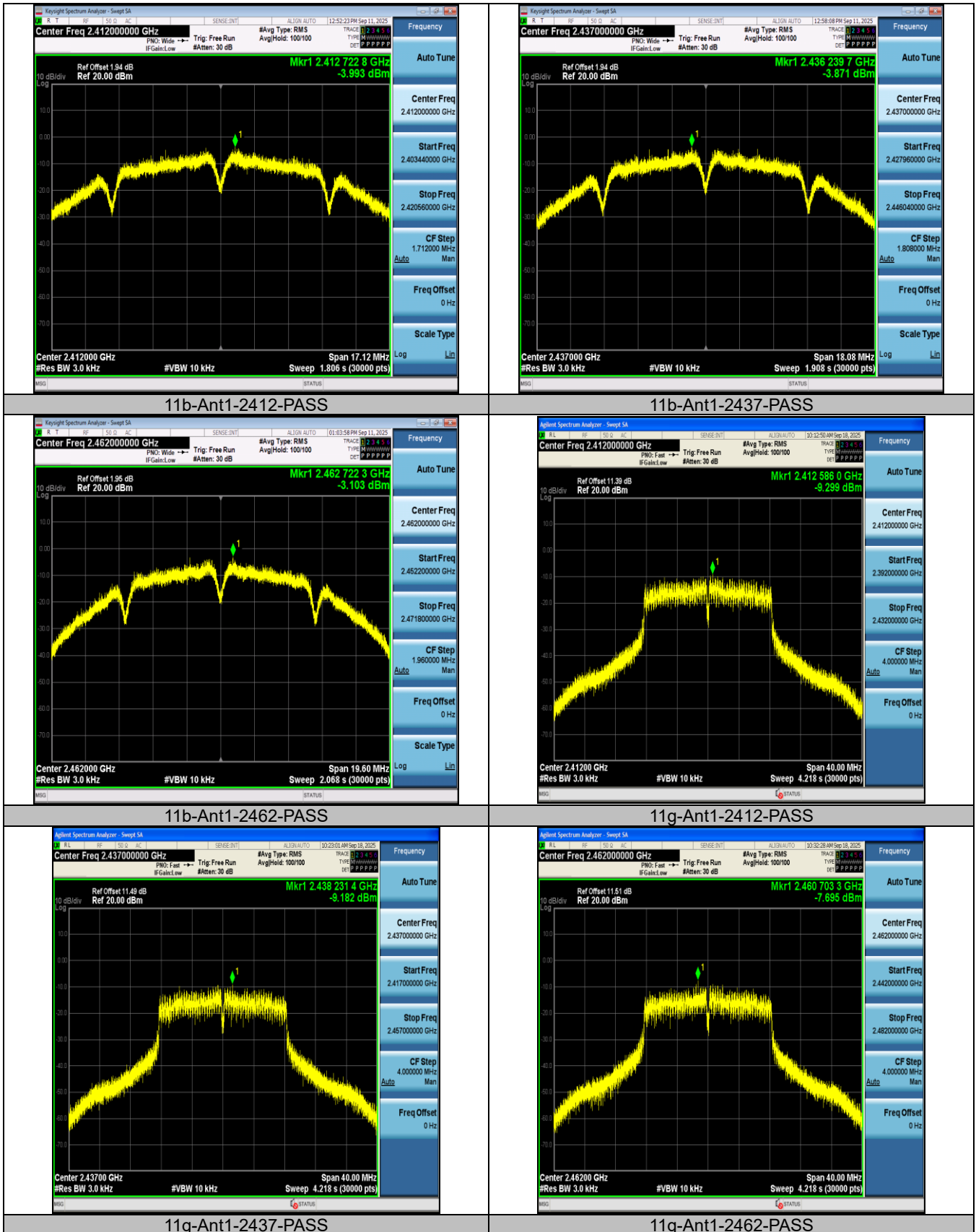
TestMode	Frequency [MHz]	Conducted Average Power[dBm]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
11b	2412	18.076	21.189	≤30	PASS
	2437	18.182	20.584	≤30	PASS
	2462	18.214	20.908	≤30	PASS
11g	2412	15.007	26.648	≤30	PASS
	2437	14.639	26.7	≤30	PASS
	2462	13.57	26.297	≤30	PASS
11n20SISO	2412	14.591	26.308	≤30	PASS
	2437	13.879	26.45	≤30	PASS
	2462	13.197	27.455	≤30	PASS
11n40SISO	2422	13.561	24.772	≤30	PASS
	2437	13.243	25.485	≤30	PASS
	2452	14.45	26.002	≤30	PASS
11ax20SISO	2412	14.673	26.622	≤30	PASS
	2437	13.833	26.722	≤30	PASS
	2462	14.304	26.144	≤30	PASS
11ax40SISO	2422	13.152	25.604	≤30	PASS
	2437	13.089	26.177	≤30	PASS
	2452	13.43	25.186	≤30	PASS

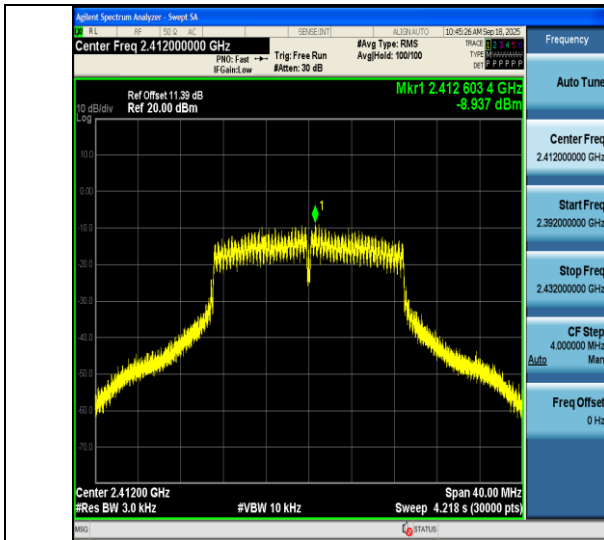
Maximum power spectral density

Test Result

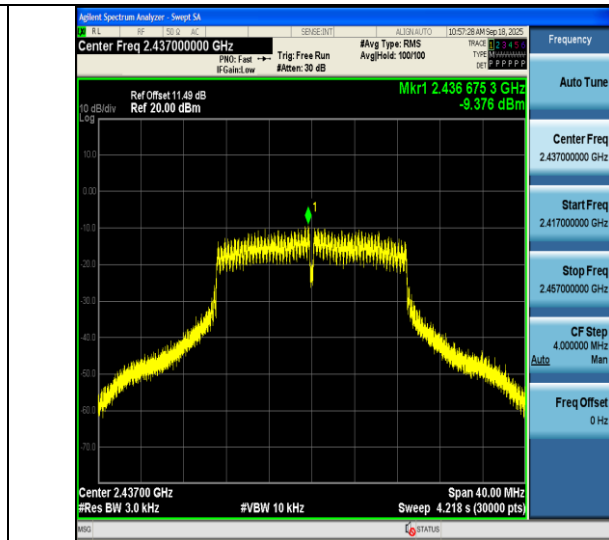
TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11b	Ant1	2412	-3.99	≤8.00	PASS
11b	Ant1	2437	-3.87	≤8.00	PASS
11b	Ant1	2462	-3.10	≤8.00	PASS
11g	Ant1	2412	-9.30	≤8.00	PASS
11g	Ant1	2437	-9.18	≤8.00	PASS
11g	Ant1	2462	-7.70	≤8.00	PASS
11n20SISO	Ant1	2412	-8.94	≤8.00	PASS
11n20SISO	Ant1	2437	-9.38	≤8.00	PASS
11n20SISO	Ant1	2462	-8.17	≤8.00	PASS
11n40SISO	Ant1	2422	-13.38	≤8.00	PASS
11n40SISO	Ant1	2437	-13.11	≤8.00	PASS
11n40SISO	Ant1	2452	-12.53	≤8.00	PASS
11ax20SISO	Ant1	2412	-9.85	≤8.00	PASS
11ax20SISO	Ant1	2437	-10.33	≤8.00	PASS
11ax20SISO	Ant1	2462	-9.00	≤8.00	PASS
11ax40SISO	Ant1	2422	-13.71	≤8.00	PASS
11ax40SISO	Ant1	2437	-13.00	≤8.00	PASS
11ax40SISO	Ant1	2452	-14.32	≤8.00	PASS

Test Graphs

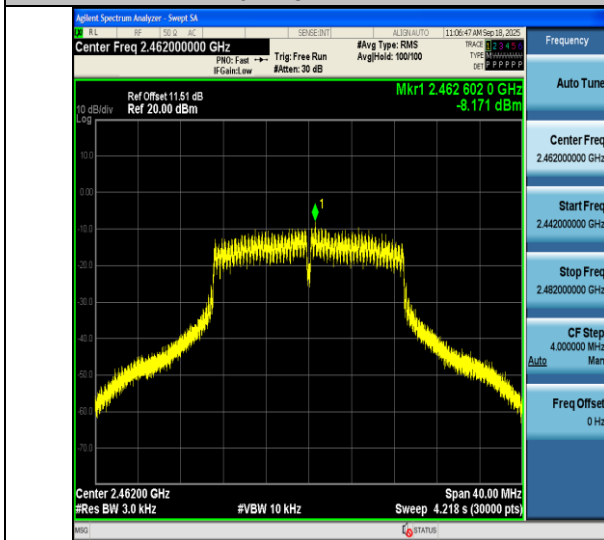




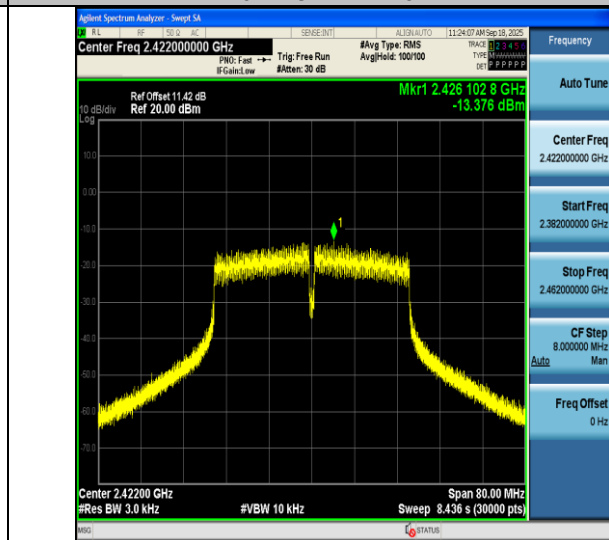
11n20SISO-Ant1-2412-PASS



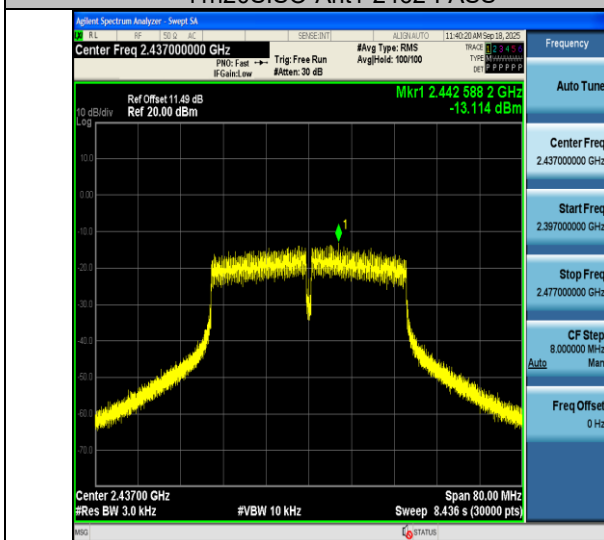
11n20SISO-Ant1-2437-PASS



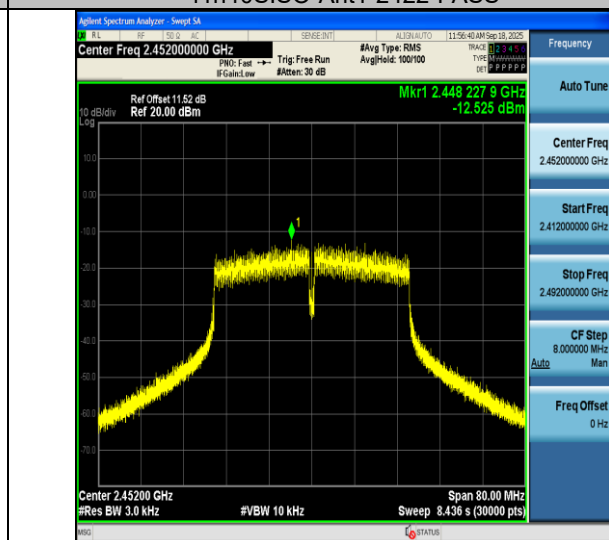
11n20SISO-Ant1-2462-PASS



11n40SISO-Ant1-2422-PASS



11n40SISO-Ant1-2437-PASS



11n40SISO-Ant1-2452-PASS