

TEST REPORT

Applicant: SIMCom Wireless Solutions Limited
EUT Description: SIMCom LTE Smart Module
Model: SIM8918EA-2W
Brand: SIMCom
FCC ID: 2AJYU-8XRA003
Standards: CFR 47, FCC Part 15 Subpart C
Date of Receipt: 2026/07/24
Date of Test: 2026/07/24 to 2026/09/10
Date of Issue: 2026/09/10

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 samples 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.



Jim Huang
Approved By:



Carey Chen
Reviewed By:

Revision History

Rev.	Issue Date	Description	Revised by
01	2026/09/10	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+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024,
KDB 558074 D01 15.247 Meas Guidance v05r02.

Remark:

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

Table of Contents

1	General Description	5
1.1	Lab Information.....	5
1.1.1	Testing Location	5
1.1.2	Test Facility / Accreditations	5
1.2	Client Information	5
1.2.1	Applicant.....	5
1.2.2	Manufacturer.....	5
1.3	Product Information.....	6
2	Test Configuration	7
2.1	Test Channel	7
2.2	Worst-case configuration and Mode	7
2.3	Support Unit used in test	8
2.4	Test Environment.....	8
2.5	Test RF Cable	8
2.6	Modifications.....	8
2.7	Test Setup Diagram	9
2.7.1	Conducted Configuration	9
2.7.2	Radiated Configuration	10
3	Equipment and Measurement Uncertainty.....	11
3.1	Test Equipment List.....	11
3.2	Measurement Uncertainty	12
4	Test Results.....	13
4.1	Antenna Requirement.....	13
4.2	Output Power	14
4.3	Occupied Bandwidth	15
4.4	Power Spectral Density	16
4.5	Band Edge for Conducted Emissions.....	17
4.6	Spurious RF Conducted Emissions	18
4.7	Radiated Spurious Emissions and Band Edge	19
5	Test Setup Photos.....	21
	Appendix.....	22

1 General Description

1.1 Lab Information

1.1.1 Testing Location

These measurement tests were conducted at the Sushi TOWE Wireless Testing (Shenzhen) Co., Ltd. facility located at F 401 and F 101, Building E, Hongwei Industrial Zone, No. 6, Liuxian 3rd Road, Zone 70, Xingdong Community, Xin'an Street, Bao'an District, Shenzhen, People's Republic of 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.

Test Firm Registration Number: 684095

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:	SIMCom Wireless Solutions Limited
Address:	SIMCom Headquarters Building, Building 3, No.289 Linhong Road, Shanghai, China

1.2.2 Manufacturer

Manufacturer:	SIMCom Wireless Solutions Limited
Address:	SIMCom Headquarters Building, Building 3, No.289 Linhong Road, Shanghai, China

1.3 Product Information

EUT Description:	SIMCom LTE Smart Module	
Model.:	SIM8918EA-2W	
Brand:	SIMCom	
Hardware Version:	8XR000-SIM8918_V1.03	
Software Version:	SIM8918B01V01_B	
IMEI:	RF Conducted	865842061689336
	RSE	865842061688270
Modulation Type:	802.11b:	DSSS-DBPSK, DQPSK, CCK
	802.11g/n:	OFDM-BPSK, QPSK, 16QAM, 64QAM
	802.11ac:	OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM
Smart System:	☒ SISO	802.11b/g/n/ac
Frequency Range:	2400 ~ 2483.5MHz	
Channel Frequency:	20M bandwidth Channel: 2412 ~ 2462MHz 40M bandwidth Channel: 2422 ~ 2452MHz	
Channel Number:	11:	802.11b/g/n20/ac20
	7:	802.11n40/ac40
Antenna Type:	☒ External, ☐ Integrated	
Antenna Gain:	Ant0 (dBi)	
	4.53	
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 /ac20		The Lowest channel (CH1)		2412MHz			
		The Middle channel (CH6)		2437MHz			
		The Highest channel (CH11)		2462MHz			
Modulation Type		Test Channel		Test Frequency			
802.11n40/ac40		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
802.11b		1 Mbps
802.11g		6 Mbps
802.11n20		MCS0 (6.5 Mbps)
802.11n40		MCS0 (13.5 Mbps)
802.11ac20		MCS0 (6.5 Mbps)
802.11ac40		MCS0 (13.5 Mbps)
Transmitting mode:	Keep the EUT was programmed to be in continuously transmitting mode.	
Normal Link:	Keep the EUT operation to normal function.	

Remark: The tuning process for both 802.11n and 802.11ac is the same. 802.11ac covers the testing of 802.11n strategies, so 802.11n can be exempted from testing.

2.3 Support Unit used in test

Description	Manufacturer	Model	Serial Number
Development Board*	SIMCom	8918-TE_V1.04	--
Development Board*	SIMCom	Smart Module-EVB-G2_V1.03	--
Adapter	HONOTO	ADS-36LE-12	--
Laptop	Lenovo	Thinkbook 14 G4+IAP	YX05AZ13

Remark: *the information are provided by applicant.

2.4 Test Environment

Temperature:	Normal: 15°C ~ 35°C
Humidity:	45 ~ 56 % RH Ambient
Voltage:	DC 3.90V

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.

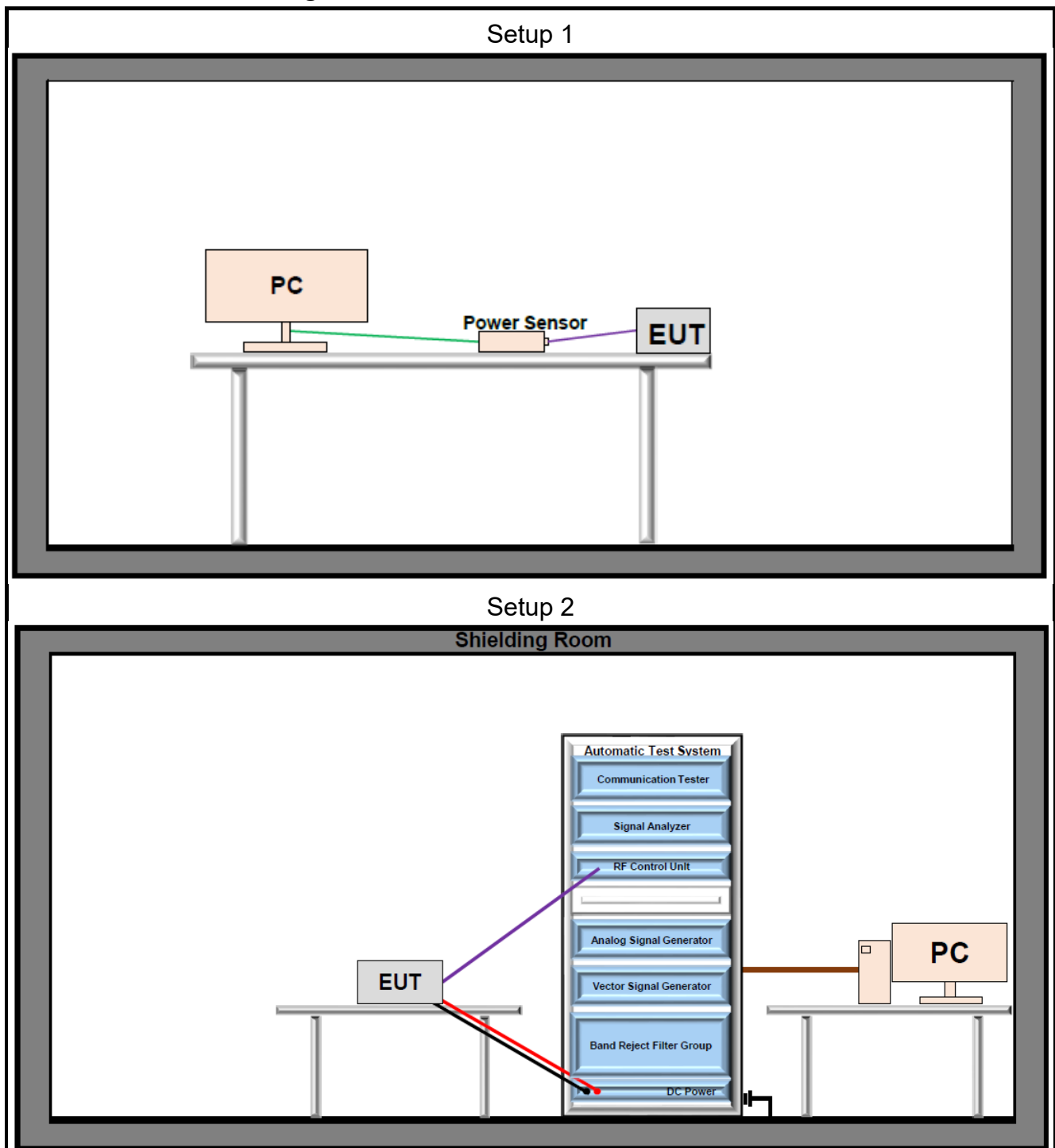
Offset = RF cable loss + attenuator factor.

2.6 Modifications

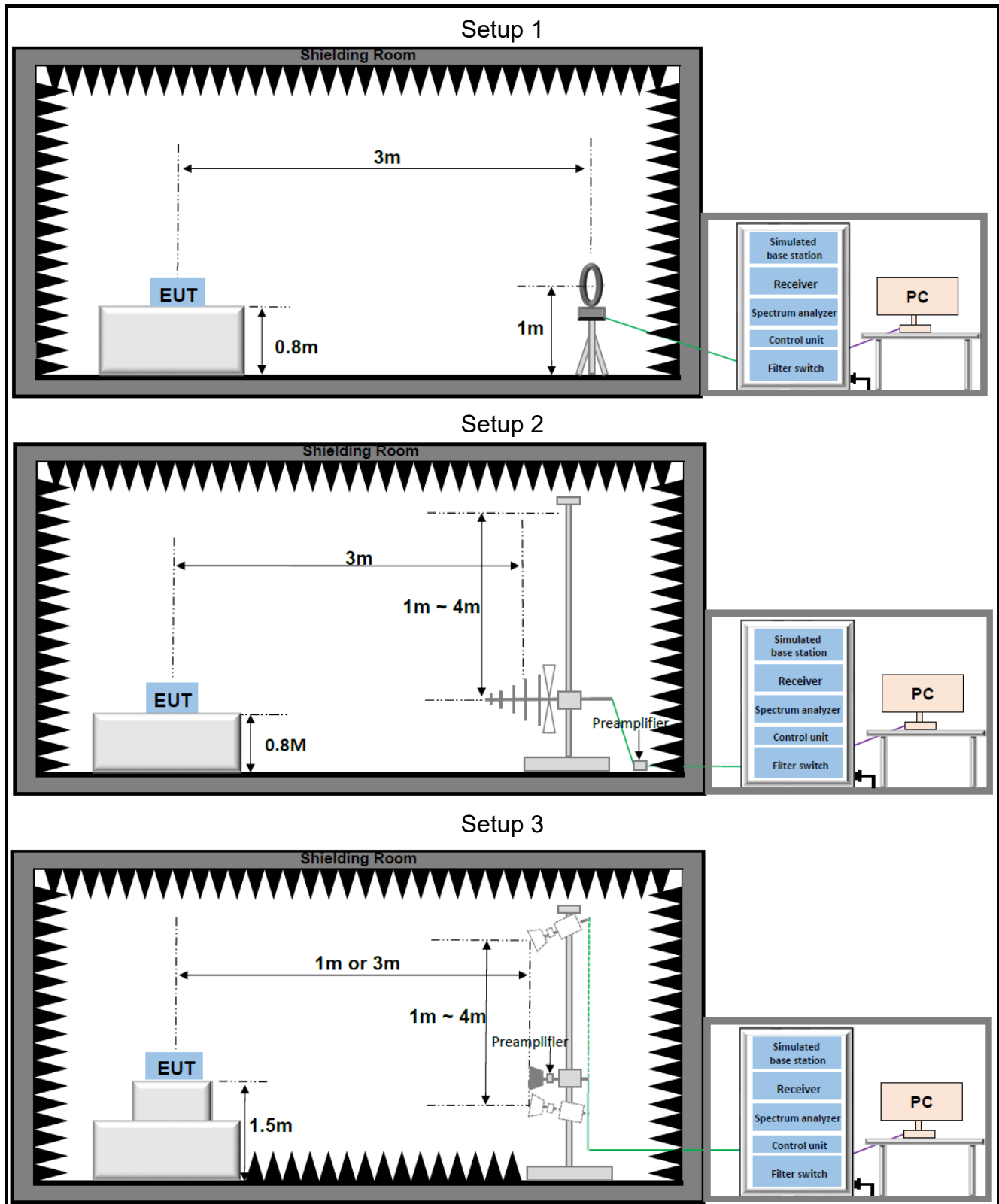
No modifications were made during testing.

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	2026/03/05	2027/03/04
Signal Generator	R&S	SMR20	101027	2026/03/05	2027/03/04
Vector Signal Generator	R&S	SMM100A	549353	2026/05/29	2027/05/28
Power Sensor	Anritsu	MA24408A	12520	2026/05/29	2027/05/28
RF Control Unit	Tonscend	JS0806-2	23C80620671	2026/05/29	2027/05/28
EXA Signal Analyzer, Multi-touch	Keysight	N9010B	MY63440541	2026/05/29	2027/05/28
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
Double-Ridged Horn Antennas	Tonscend	HA32-18	806HA003608251015	2025/12/13	2028/12/12
Biconic Logarithmic Periodic Antennas	Tonscend	BLA32-30	80SBLA001011251010	2025/12/13	2028/12/12
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	1290	2026/06/18	2029/06/17
Loop Antenna	Schwarzbeck	FMZB 1519C	1519C-028	2026/06/13	2029/06/12
Signal Analyzer	Keysight	N9020A	MY57120015	2026/01/19	2028/01/18
EXA Signal Analyzer, Multi-touch	Keysight	N9010B	MY63440541	2026/05/29	2027/05/28
EMI Tester Receiver	Rohde & Schwarz	ESR7	102719	2026/05/28	2027/05/27
Low Noise Amplifier	Tonscend	TAP9K3G40	806JSAP044710251054	2026/01/19	2028/01/18
Low Noise Amplifier	Tonscend	TAP01018050	806JSAF044509251052	2026/01/19	2028/01/18
Low Noise Amplifier	Tonscend	TAP18040048	AP22G806247	2025/03/11	2027/03/10
Hygrometer	BINGYU	HTC-1	N/A	2026/07/24	2027/07/23
Radio Frequency Switch	Townshend	JS0806s	806JSSX019811251028	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)	2.42dB
Radiated Emissions(30MHz~1000MHz)	4.62dB
Radiated Emissions(1GHz~18GHz)	5.30dB
Radiated Emissions(18GHz~40GHz)	5.52dB

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 4.53dBi. 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+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 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+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 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 = shall be in the range of 1% to 5% of the OBW but not less than 100 kHz(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+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 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+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 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+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 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	16.80425 - 16.80475	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+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 Section 6.4 & 6.5 & 6.6 & 11.11&11.12

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.
- 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.
- 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 ≥ 3 MHz; Detector = RMS; Trace (RMS) averaging was performed over at least 100 traces.

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) + Factor(dB):

Factor = Cable Factor(dB) + AF(dB/m) - Preamplifier gain(dB)

AF = Antenna Factor(dB/m)

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

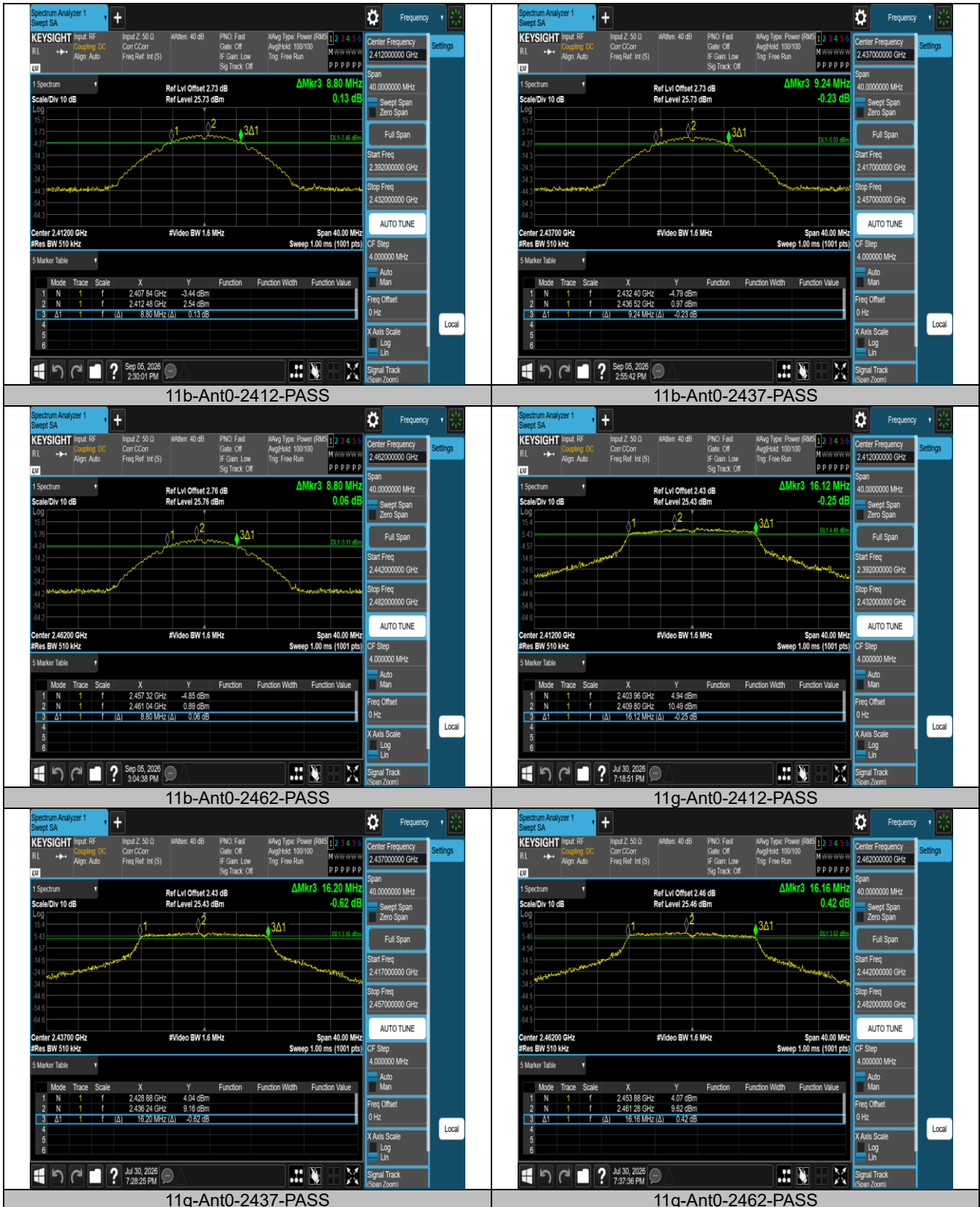
For detailed test setup photos, see **Appendix-E BTWIFI Setup Photos**

Appendix

DTS Bandwidth Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11b	Ant0	2412	8.800	2407.840	2416.640	0.5	PASS
11b	Ant0	2437	9.240	2432.400	2441.640	0.5	PASS
11b	Ant0	2462	8.800	2457.320	2466.120	0.5	PASS
11g	Ant0	2412	16.120	2403.960	2420.080	0.5	PASS
11g	Ant0	2437	16.200	2428.880	2445.080	0.5	PASS
11g	Ant0	2462	16.160	2453.880	2470.040	0.5	PASS
11ac20SISO	Ant0	2412	17.360	2403.360	2420.720	0.5	PASS
11ac20SISO	Ant0	2437	17.520	2428.280	2445.800	0.5	PASS
11ac20SISO	Ant0	2462	17.520	2453.120	2470.640	0.5	PASS
11ac40SISO	Ant0	2422	35.840	2404.080	2439.920	0.5	PASS
11ac40SISO	Ant0	2437	36.320	2418.840	2455.160	0.5	PASS
11ac40SISO	Ant0	2452	35.920	2434.000	2469.920	0.5	PASS

Test Graphs





11ac20ISO-Ant0-2412-PASS



11ac20ISO-Ant0-2437-PASS



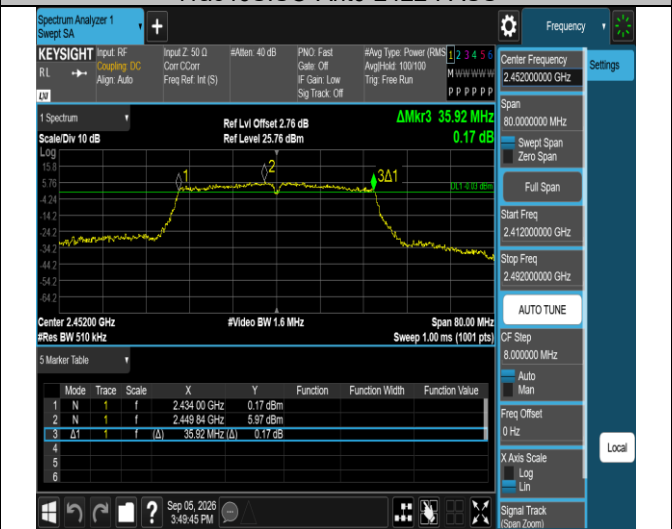
11ac20ISO-Ant0-2462-PASS



11ac40ISO-Ant0-2422-PASS



11ac40ISO-Ant0-2437-PASS

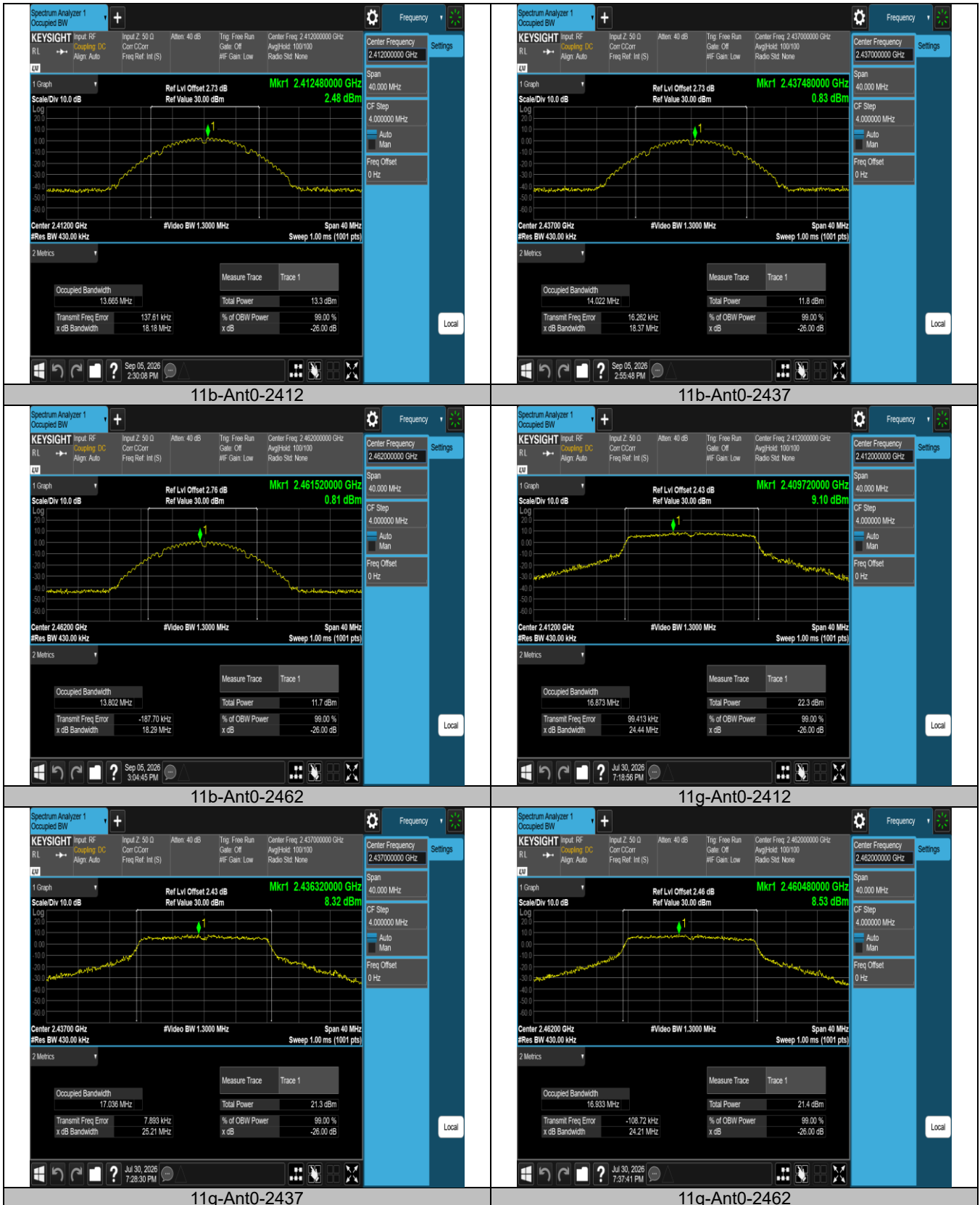


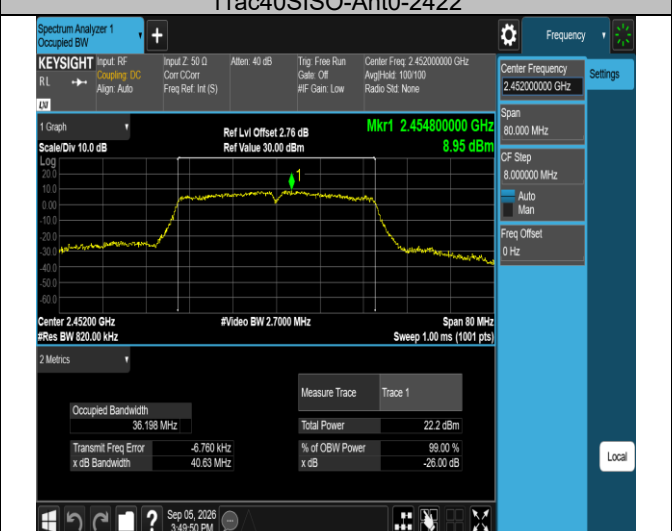
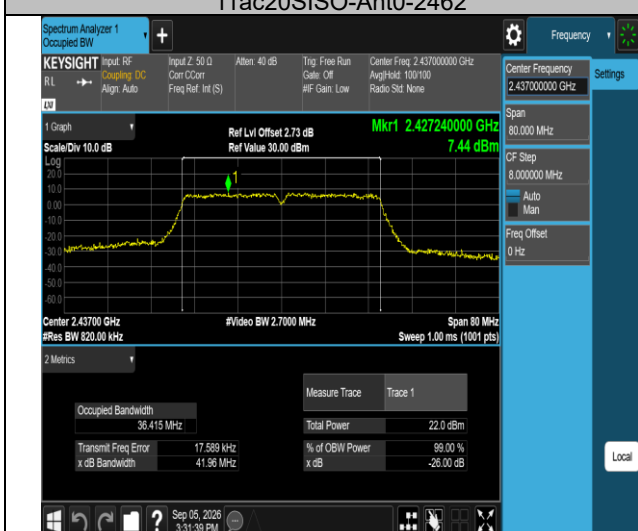
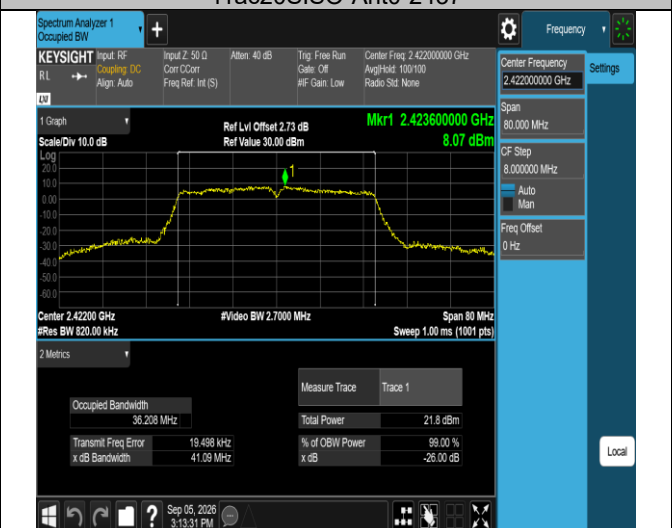
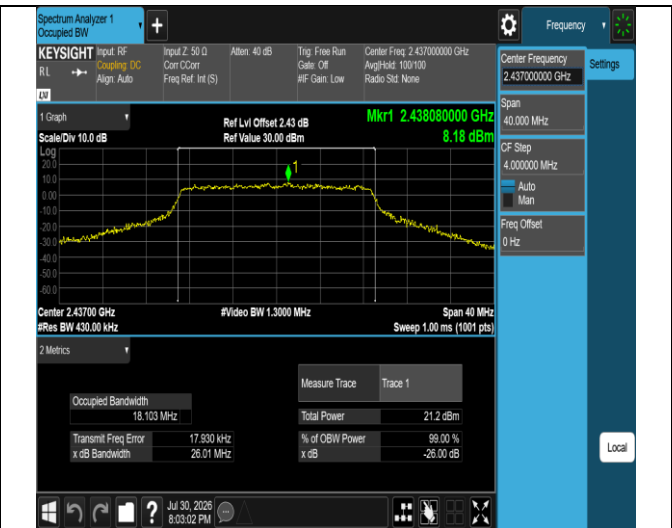
11ac40ISO-Ant0-2452-PASS

Occupied Channel Bandwidth Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11b	Ant0	2412	13.665	2405.3051	2418.9701	---	---
11b	Ant0	2437	14.022	2430.0053	2444.0273	---	---
11b	Ant0	2462	13.802	2454.9113	2468.7133	---	---
11g	Ant0	2412	16.873	2403.6629	2420.5359	---	---
11g	Ant0	2437	17.036	2428.4899	2445.5259	---	---
11g	Ant0	2462	16.933	2453.4248	2470.3578	---	---
11ac20SISO	Ant0	2412	18.002	2403.0762	2421.0782	---	---
11ac20SISO	Ant0	2437	18.103	2427.9664	2446.0694	---	---
11ac20SISO	Ant0	2462	18.071	2452.8812	2470.9522	---	---
11ac40SISO	Ant0	2422	36.208	2403.9155	2440.1235	---	---
11ac40SISO	Ant0	2437	36.415	2418.8101	2455.2251	---	---
11ac40SISO	Ant0	2452	36.198	2433.8942	2470.0922	---	---

Test Graphs





Maximum conducted output power Test Result

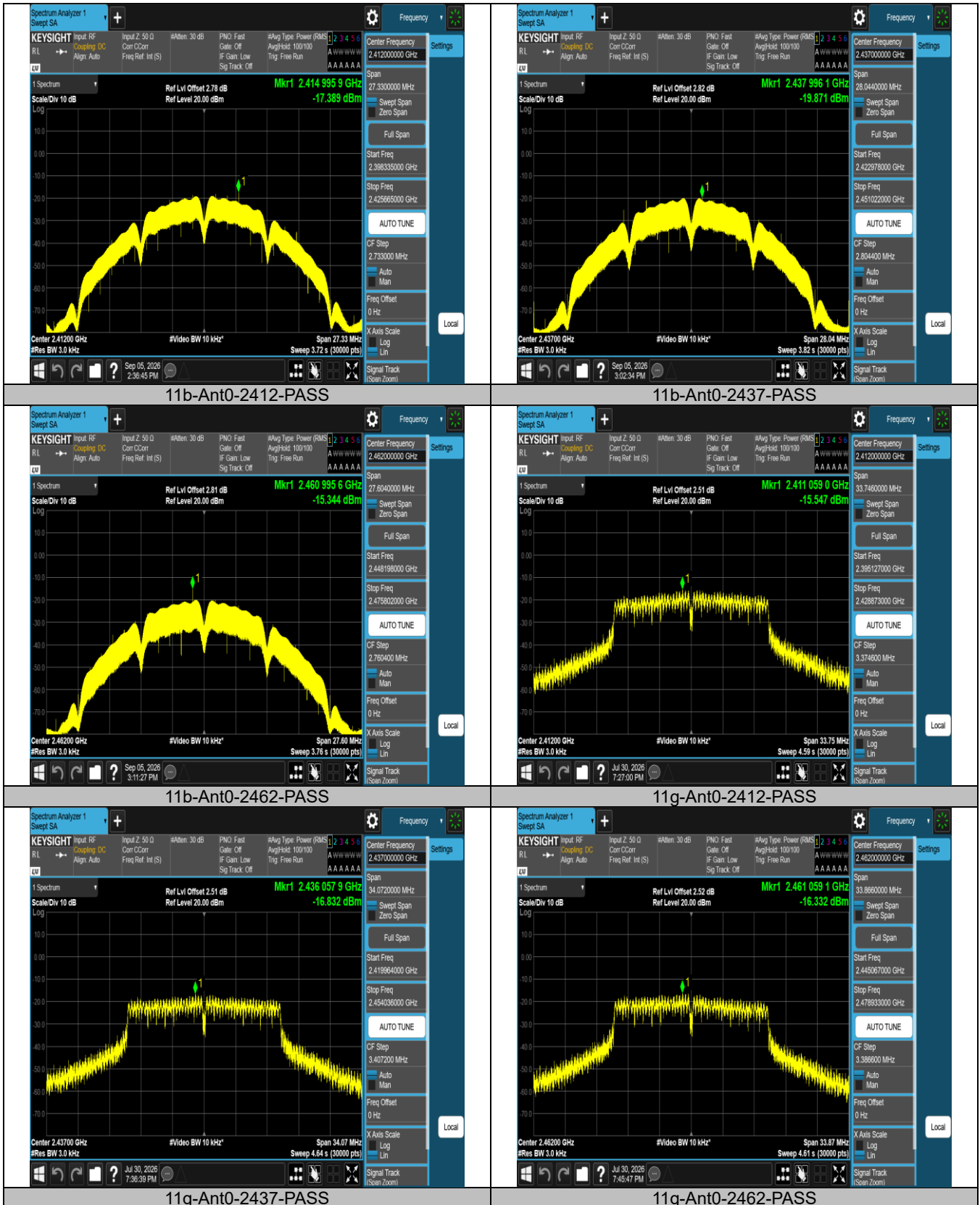
TestMode	Frequency [MHz]	Conducted Average Power[dBm]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
11b	2412	12.921	15.472	≤30.00	PASS
11b	2437	13.414	15.756	≤30.00	PASS
11b	2462	12.605	15.049	≤30.00	PASS
11g	2412	16.506	21.201	≤30.00	PASS
11g	2437	14.446	20.054	≤30.00	PASS
11g	2462	15.746	20.427	≤30.00	PASS
11ac20SISO	2412	16.308	21.113	≤30.00	PASS
11ac20SISO	2437	15.286	20.041	≤30.00	PASS
11ac20SISO	2462	15.546	20.536	≤30.00	PASS
11ac40SISO	2422	14.884	21.12	≤30.00	PASS
11ac40SISO	2437	15.245	21.716	≤30.00	PASS
11ac40SISO	2452	15.304	21.762	≤30.00	PASS

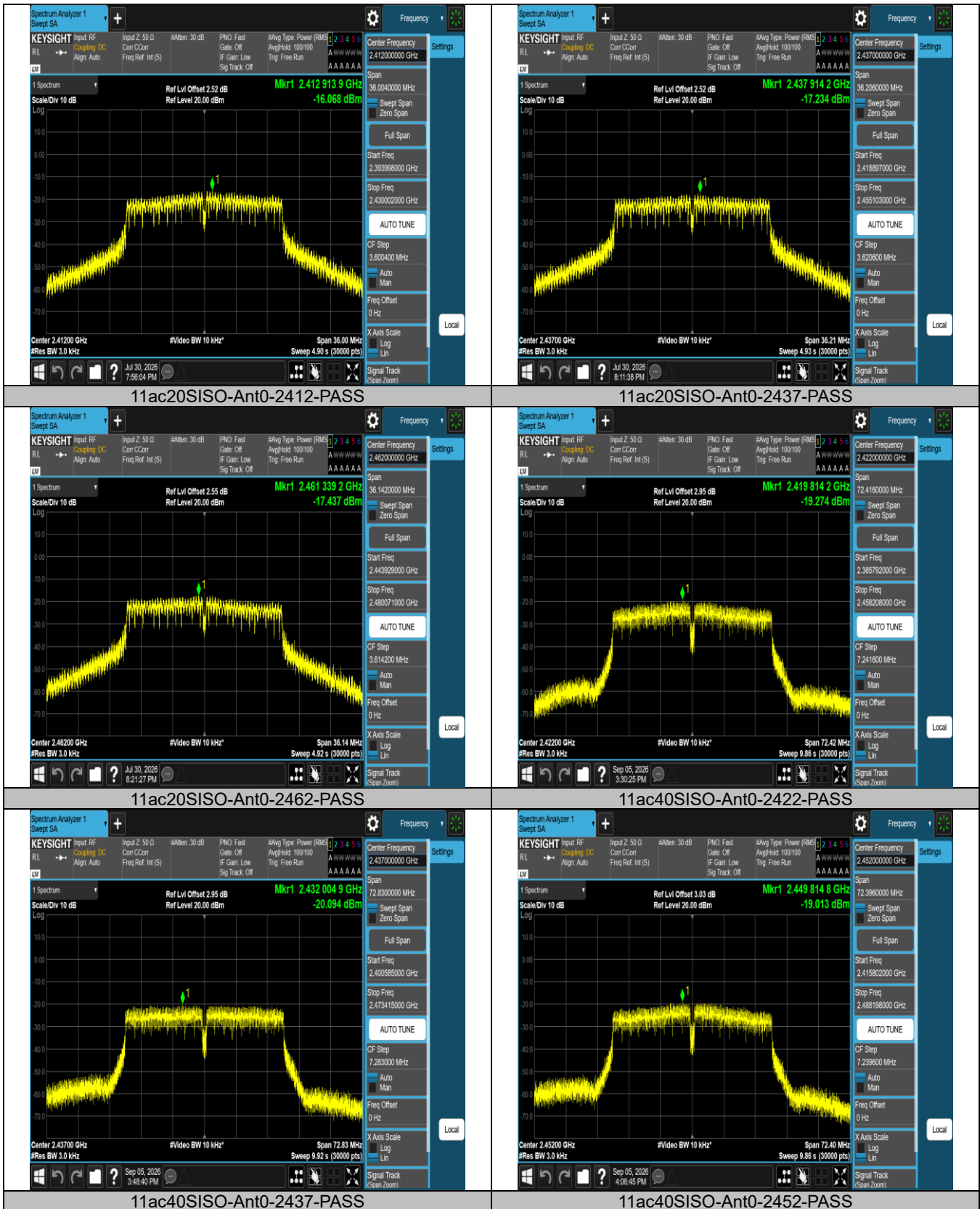
Remark: The duty factors have been compensated in power meter.

Maximum power spectral density Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11b	Ant0	2412	-17.39	≤8.00	PASS
11b	Ant0	2437	-19.87	≤8.00	PASS
11b	Ant0	2462	-15.34	≤8.00	PASS
11g	Ant0	2412	-15.55	≤8.00	PASS
11g	Ant0	2437	-16.83	≤8.00	PASS
11g	Ant0	2462	-16.33	≤8.00	PASS
11ac20SISO	Ant0	2412	-16.07	≤8.00	PASS
11ac20SISO	Ant0	2437	-17.23	≤8.00	PASS
11ac20SISO	Ant0	2462	-17.44	≤8.00	PASS
11ac40SISO	Ant0	2422	-19.27	≤8.00	PASS
11ac40SISO	Ant0	2437	-20.09	≤8.00	PASS
11ac40SISO	Ant0	2452	-19.01	≤8.00	PASS

Test Graphs

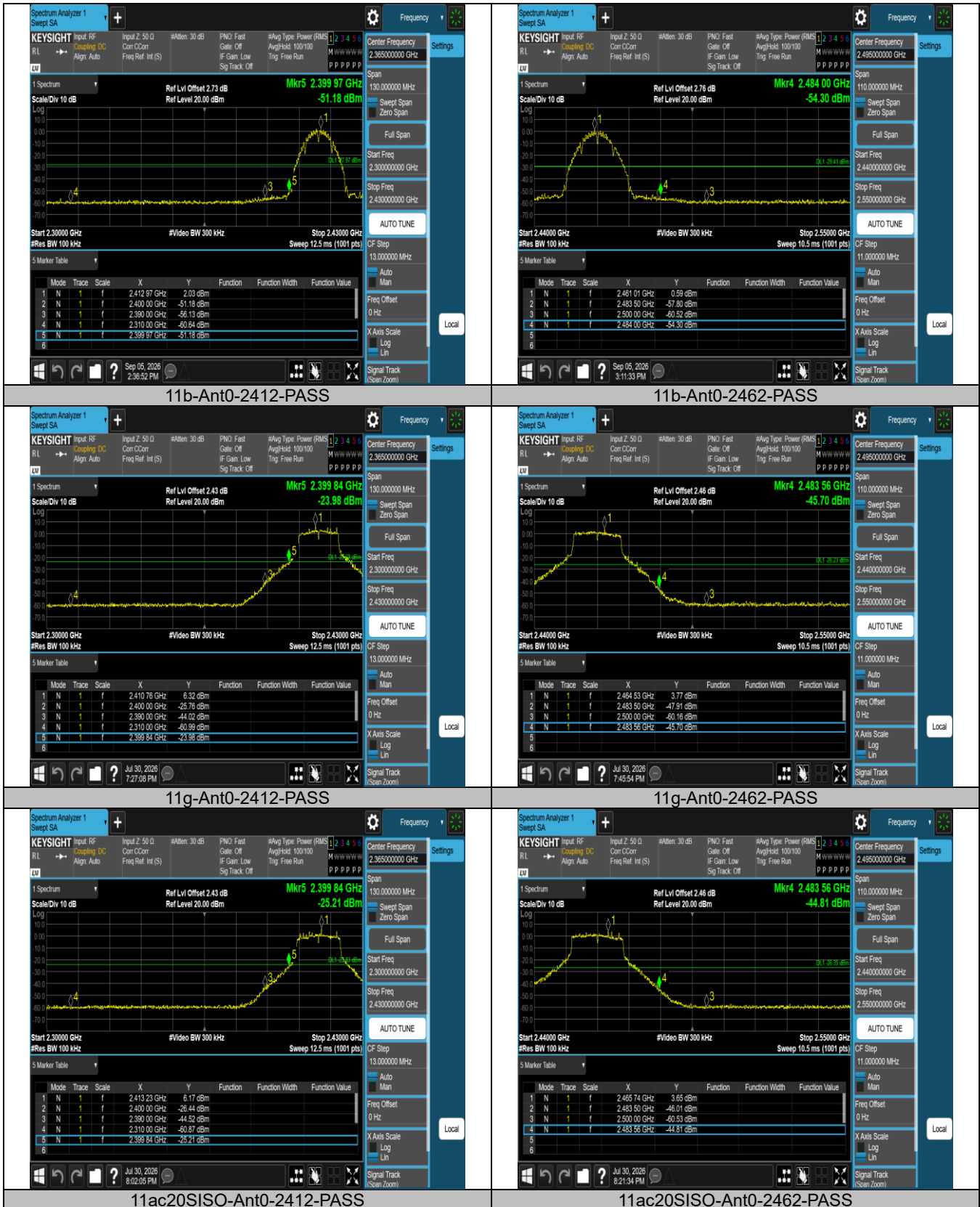




Band edge measurements
Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11b	Ant0	Low	2412	2.03	-51.18	≤-27.97	PASS
11b	Ant0	High	2462	0.59	-54.31	≤-29.41	PASS
11g	Ant0	Low	2412	6.32	-23.98	≤-23.68	PASS
11g	Ant0	High	2462	3.77	-45.7	≤-26.23	PASS
11ac20SISO	Ant0	Low	2412	6.17	-25.21	≤-23.83	PASS
11ac20SISO	Ant0	High	2462	3.65	-44.81	≤-26.35	PASS
11ac40SISO	Ant0	Low	2422	1.66	-29.74	≤-28.34	PASS
11ac40SISO	Ant0	High	2452	2.25	-35.49	≤-27.75	PASS

Test Graphs





Conducted Spurious Emission Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11b	Ant0	2412	0~Reference	0.68	0.68	---	PASS
11b	Ant0	2412	30~1000	0.68	-68.67	≤-29.32	PASS
11b	Ant0	2412	1000~26500	0.68	-43.53	≤-29.32	PASS
11b	Ant0	2437	0~Reference	-0.82	-0.82	---	PASS
11b	Ant0	2437	30~1000	-0.82	-68.55	≤-30.82	PASS
11b	Ant0	2437	1000~26500	-0.82	-45.02	≤-30.82	PASS
11b	Ant0	2462	0~Reference	-0.76	-0.76	---	PASS
11b	Ant0	2462	30~1000	-0.76	-69.07	≤-30.76	PASS
11b	Ant0	2462	1000~26500	-0.76	-48.31	≤-30.76	PASS
11g	Ant0	2412	0~Reference	6.52	6.52	---	PASS
11g	Ant0	2412	30~1000	6.52	-69.47	≤-23.48	PASS
11g	Ant0	2412	1000~26500	6.52	-41.2	≤-23.48	PASS
11g	Ant0	2437	0~Reference	5.29	5.29	---	PASS
11g	Ant0	2437	30~1000	5.29	-69.68	≤-24.71	PASS
11g	Ant0	2437	1000~26500	5.29	-42.71	≤-24.71	PASS
11g	Ant0	2462	0~Reference	4.76	4.76	---	PASS
11g	Ant0	2462	30~1000	4.76	-68.55	≤-25.24	PASS
11g	Ant0	2462	1000~26500	4.76	-44.33	≤-25.24	PASS
11ac20SISO	Ant0	2412	0~Reference	4.99	4.99	---	PASS
11ac20SISO	Ant0	2412	30~1000	4.99	-67.7	≤-25.01	PASS
11ac20SISO	Ant0	2412	1000~26500	4.99	-42.72	≤-25.01	PASS
11ac20SISO	Ant0	2437	0~Reference	5.10	5.10	---	PASS
11ac20SISO	Ant0	2437	30~1000	5.10	-68.99	≤-24.9	PASS
11ac20SISO	Ant0	2437	1000~26500	5.10	-41.94	≤-24.9	PASS
11ac20SISO	Ant0	2462	0~Reference	4.68	4.68	---	PASS
11ac20SISO	Ant0	2462	30~1000	4.68	-68.06	≤-25.32	PASS
11ac20SISO	Ant0	2462	1000~26500	4.68	-45.02	≤-25.32	PASS
11ac40SISO	Ant0	2422	0~Reference	1.35	1.35	---	PASS
11ac40SISO	Ant0	2422	30~1000	1.35	-68.14	≤-28.65	PASS
11ac40SISO	Ant0	2422	1000~26500	1.35	-48.18	≤-28.65	PASS
11ac40SISO	Ant0	2437	0~Reference	1.70	1.70	---	PASS
11ac40SISO	Ant0	2437	30~1000	1.70	-49.96	≤-28.3	PASS
11ac40SISO	Ant0	2437	1000~26500	1.70	-46.5	≤-28.3	PASS
11ac40SISO	Ant0	2452	0~Reference	2.12	2.12	---	PASS
11ac40SISO	Ant0	2452	30~1000	2.12	-59.84	≤-27.88	PASS
11ac40SISO	Ant0	2452	1000~26500	2.12	-45.69	≤-27.88	PASS