TEST REPORT

Applicant:	Quectel Wireless Solutions Co., Ltd.
EUT Description:	Wi-Fi 7 & Bluetooth Module
Model:	FGE576Q
Brand:	Quectel
FCC ID:	XMR2024FGE576Q
Standards:	FCC 47 CFR Part 15 Subpart C
Date of Receipt:	2024/07/15
Date of Test:	2024/07/15 to 2024/11/15
Date of Issue:	2024/11/19

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.

Huang Kun
Approved By:

Chen Chengfu
Reviewed By:

Revision History

Rev.	Issue Date	Description	Revised by
01	2024/11/19	Original	Chen Chengfu

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	PASS
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: Pass is EUT meets standard requirements.			

Table of Contents

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 7 & Bluetooth Module		
Model:	FGE576Q		
Brand:	Quectel		
Hardware Version:	R1.0		
Software Version:	/		
SN:	RF Conducted	D1Y24EB28000031	
	RSE & AC power line	D1Y24EB28000030	
Modulation Type:	802.11b:	DSSS-DBPSK, DQPSK, CCK	
	802.11g/n:	OFDM-BPSK, QPSK, 16QAM, 64QAM	
	802.11ax:	OFDM/OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM	
	802.11be:	OFDM/OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM, 4096QAM	
Smart System:	☒SISO	802.11b/g/n/ax/be	/
	☒MIMO	802.11n/ax/be	(2)TX(2)RX
	☒CDD	802.11b/g	(2)TX(2)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/ax20/be20	
	7:	802.11n40/ax40/be40	
Antenna Type:	Dipole Antenna		
Antenna Gain:	ANT Model	ANT Port 1(dBi)	ANT Port 2(dBi)
	YEBT038WFA	0.2	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**
802.11 b/g/n20/ax20/be20	The Lowest channel (CH1)	2412MHz
	The Middle channel (CH6)	2437MHz
	The Highest channel (CH11)	2462MHz
Modulation Type	**Test Channel**	**Test Frequency**
802.11 n40/ax40/be40	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(2)TX(2)RX Data Rate**
802.11b	1 Mbps	2 Mbps
802.11g	6 Mbps	12 Mbps
802.11n20	MCS0 (6.5 Mbps)	MCS0 (13 Mbps)
802.11n40	MCS0 (13.5 Mbps)	MCS0 (27 Mbps)
802.11ax20	MCS0 (8.6 Mbps)	MCS0 (17.2 Mbps)
802.11ax40	MCS0 (17.2 Mbps)	MCS0 (34.4 Mbps)
802.11be20	MCS0 (8.6 Mbps)	MCS0 (17.2 Mbps)
802.11be40	MCS0 (17.2 Mbps)	MCS0 (34.4 Mbps)
Transmitting mode:	Keep the EUT was programmed to be in continuously transmitting mode.	
Normal Link:	Keep the EUT operation to normal function.	

2.3 RU Types & Channel Bandwidth:

RU Types	**be20**	**be40**
26-tone RU	26 tone_0 / 26 tone_8	/
52-tone RU	52 tone_37 / 52 tone_40	/
106-tone RU	106 tone_53 / 106 tone_54	/
242-tone RU	/	242 tone 61 / 242 tone 62

2.4 Support Unit used in test

Description	Manufacturer	Model	Serial Number
Development Board*	Quectel	SG368Z-WF-EVB_V1.1	E1C24G52C000022
Development Board*	Quectel	SG368Z-WF-TE-A_V1.1	D1C24FK0F000028
SWITCHING POWER SUPPLY*	Sonething High Electric(Xiamen) Company Inc	P60EB120500	000026
Remark: * the information of table is provided by client.			

2.5 Test Environment

Temperature:	Normal: 15℃ ~ 35℃
Humidity:	45-56 % RH Ambient
Voltage:	DC 3.3V (Module Input) DC 12V (Adapter Output)
Remark: The testing environment is within the scope of the EUT user manual and meets the requirements of the standard testing environment.	

2.6 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.

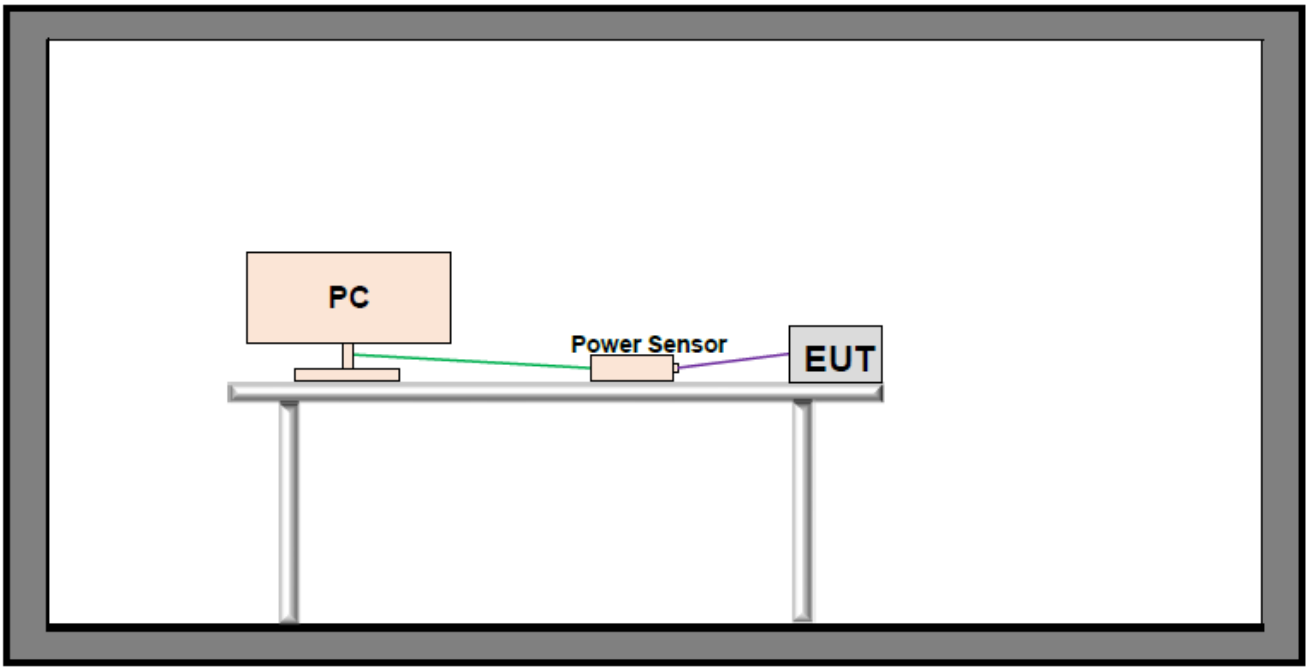
2.7 Modifications

No modifications were made during testing.

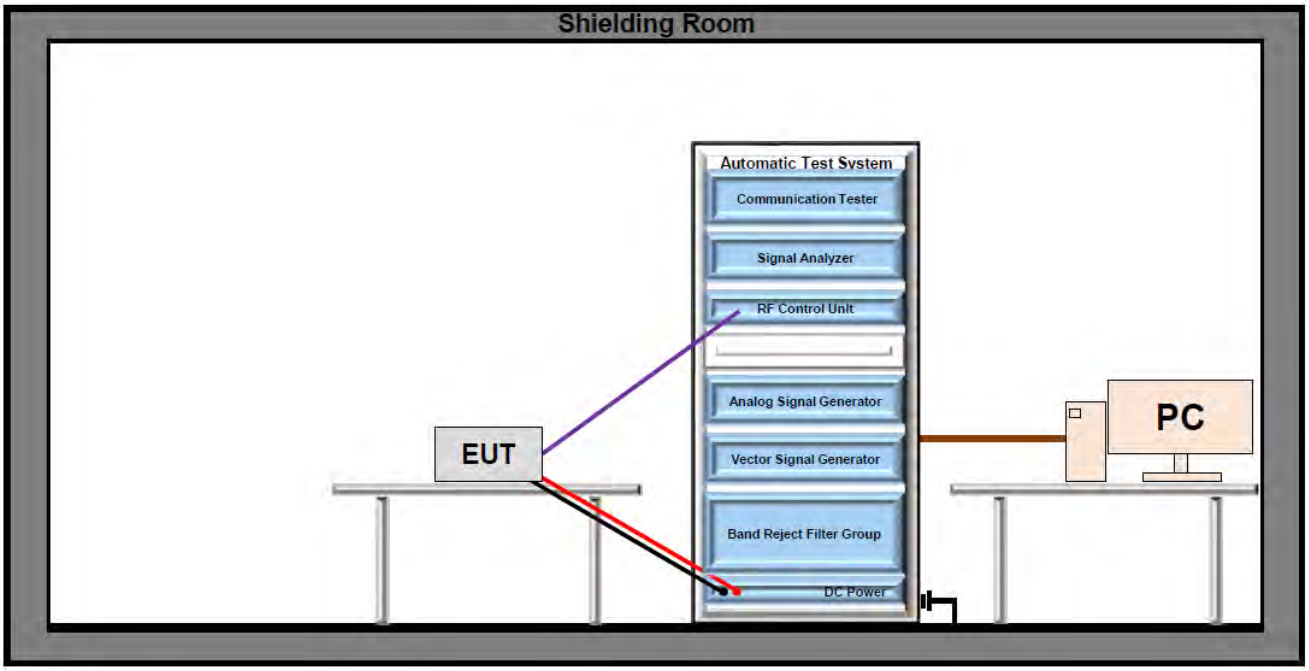
2.8 Test Setup Diagram

2.8.1 Conducted Configuration

Setup 1

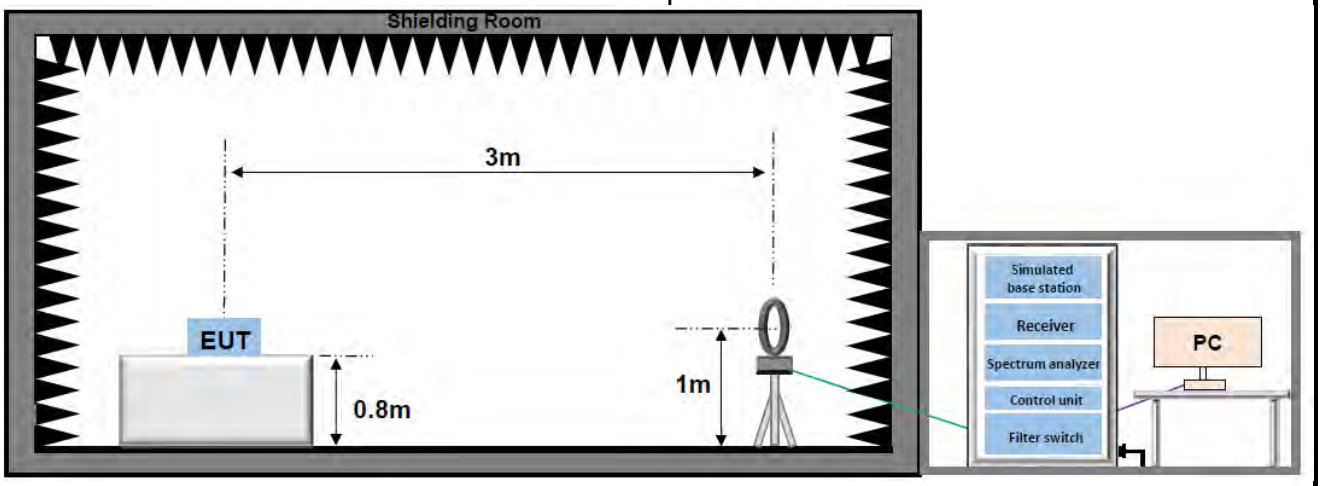


Setup 2

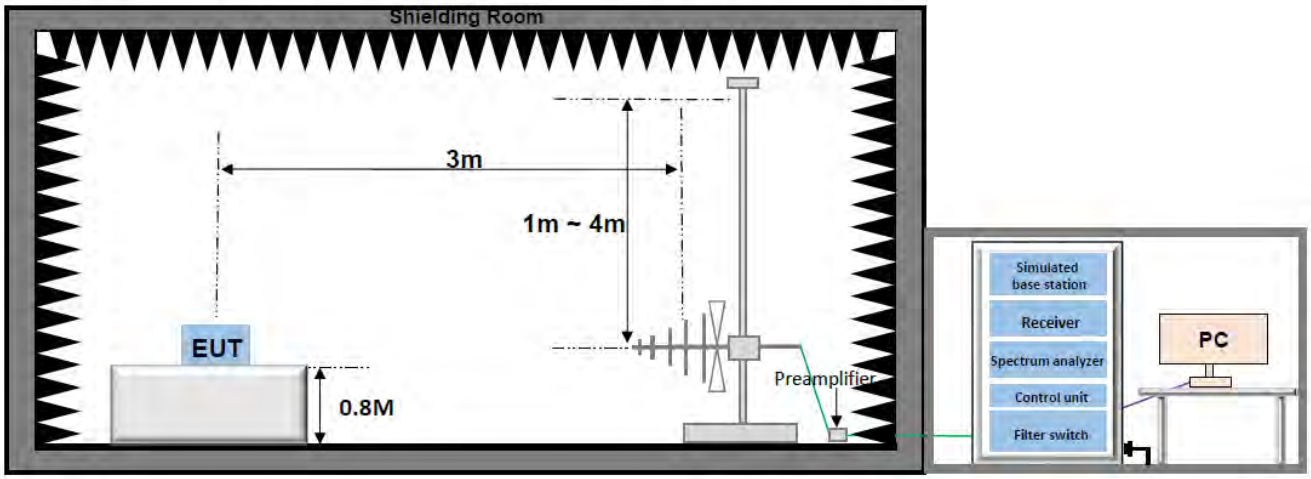


2.8.2 Radiated Configuration

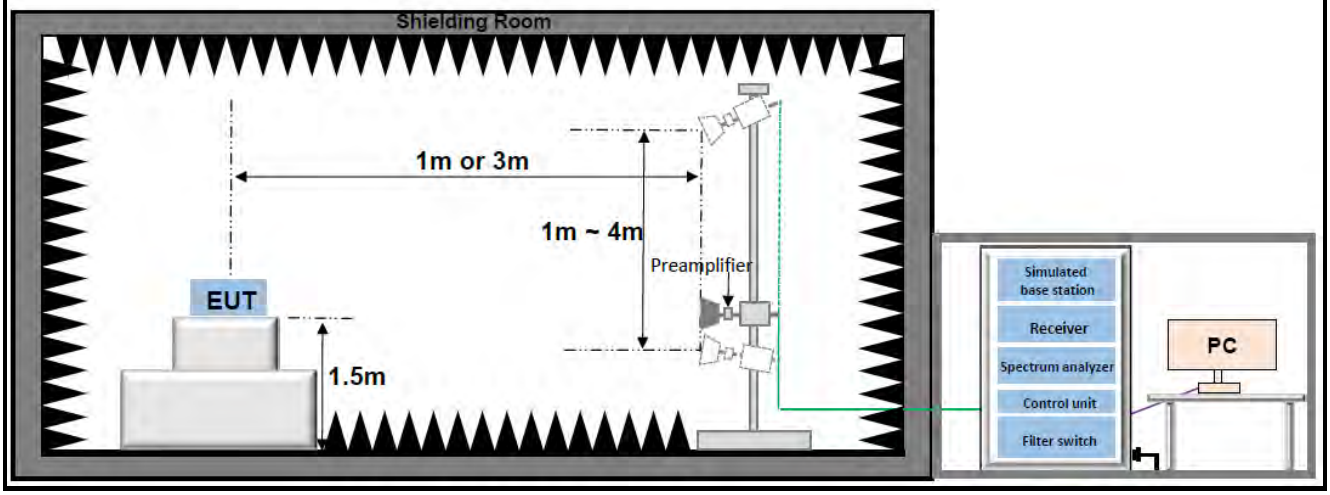
Setup 1



Setup 2



Setup 3



Directional gain calculations:

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

If all antennas have the same gain, G_{ANT}, Directional gain = G_{ANT} + Array Gain, where Array Gain is as follows.

- For power spectral density (PSD) measurements on all devices
  Array Gain = 10 log(N_{ANT}/N_{SS}=1) dB
- For power measurements on IEEE 802.11 devices:
  Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$;
  Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any N_{ANT};
  Array Gain = 5 log(N_{ANT}/N_{SS}=1) dB or 3 dB, whichever is less, for 20-MHz channel widths with $N_{ANT} \geq 5$.

Directional gain may be calculated by using the formulas applicable to equal gain antennas with G_{ANT} set equal to the gain of the antenna having the highest gain.

Unequal antenna gains, with equal transmit powers. For antenna gains given by G1, G2, …, GN dBi

- If transmit signals are correlated, then
  Directional gain = 10 log[($10^{G1/20} + 10^{G2/20} + \ldots + 10^{GN/20})^2 / N_{ANT}$] dBi [Note the "20"s in the denominator of each exponent and the square of the sum of terms; the object is to combine the signal levels coherently.]
- If all transmit signals are completely uncorrelated, then
  Directional gain = 10 log[($10^{G1/10} + 10^{G2/10} + \ldots + 10^{GN/10}$)/$N_{ANT}$] dBi

The Power and PSD limit should be modified if the directional gain of EUT is over 6dBi.

The EUT supports CDD System.

Transmit signals are completely uncorrelated					
ANT Gain1 (dBi)	ANT Gain2 (dBi)	Directional gain For Power (dBi)	Directional gain For PSD (dBi)	Power Limit Reduction (dBm)	PSD Limit Reduction (dBm)
0.2	0.2	0.2	3.21	0	0

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					
Description	**Manufacturer**	**Model**	**SN**	**Last Due**	**Cal Due**
Signal Analyzer	Keysight	N9020A	US46470429	2024/03/25	2025/03/24
EXA Signal Analyzer, Multi-touch	Keysight	N9010B	MY63440541	2024/05/30	2025/05/29
Power Sensor	Anritsu	MA24408A	12520	2024/05/30	2025/05/29
Measurement Software	Tonscend	JS1120-3	10659	N/A	N/A

Radiated Emission					
Description	**Manufacturer**	**Model**	**SN**	**Last Due**	**Cal Due**
Biconic Logarithmic Periodic Antennas	Schwarzbeck	VULB9163	1643	2023/06/25	2025/06/24
Double-Ridged Horn Antennas	Schwarzbeck	BBHA 9120D	2809	2023/06/25	2025/06/24
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	1290	2023/06/25	2025/06/24
Loop Antenna	Schwarzbeck	FMZB 1519C	1519C-028	2023/06/29	2025/06/28
Signal Analyzer	Keysight	N9020A	MY49100252	2024/03/25	2025/03/24
EXA Signal Analyzer, Multi-touch	Keysight	N9010B	MY63440541	2024/05/30	2025/05/29
Wideband Radio Communication Tester	R&S	CMW500	150645	2024/03/25	2025/03/24
Low Noise Amplifier	Tonscend	TAP9K3G40	AP23A8060273	2023/04/08	2025/04/07
Low Noise Amplifier	Tonscend	TAP01018050	AP22G806258	2023/04/08	2025/04/07
Low Noise Amplifier	Tonscend	TAP18040048	AP22G806247	2023/04/08	2025/04/07
Hygrometer	BINGYU	HTC-1	N/A	2023/06/01	2025/05/31
Test Software	Tonscend	TS+ V5.0.0	N/A	N/A	N/A

Conducted Emission					
Description	**Manufacturer**	**Model**	**S.N.**	**Last Due**	**Cal Due**
EMI Tester Receiver	Rohde & Schwarz	ESR3	103108	2024/05/31	2025/05/30
LISN	Rohde & Schwarz	ENV 216	102836	2024/01/10	2025/01/09
Test software	Rohde & Schwarz	ELEKTRA V4.61	N/A	N/A	N/A

3.2 Measurement Uncertainty

Parameter	U_{lab}
Frequency Error	679.98Hz
Output Power	0.76dB
Conducted Spurious Emissions	2.22dB
Conducted Emissions(150kHz~30MHz)	2.43dB
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 Dipole. With Antenna gain is 0.2(Ant1); 0.2(Ant2); Antenna Anti-Replacement Construction: An embedded-in antenna design is used.	

4.2 AC Power Line Conducted Emissions

Limits

Frequency range (MHz)	Limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50
* Decreases with the logarithm of the frequency.		

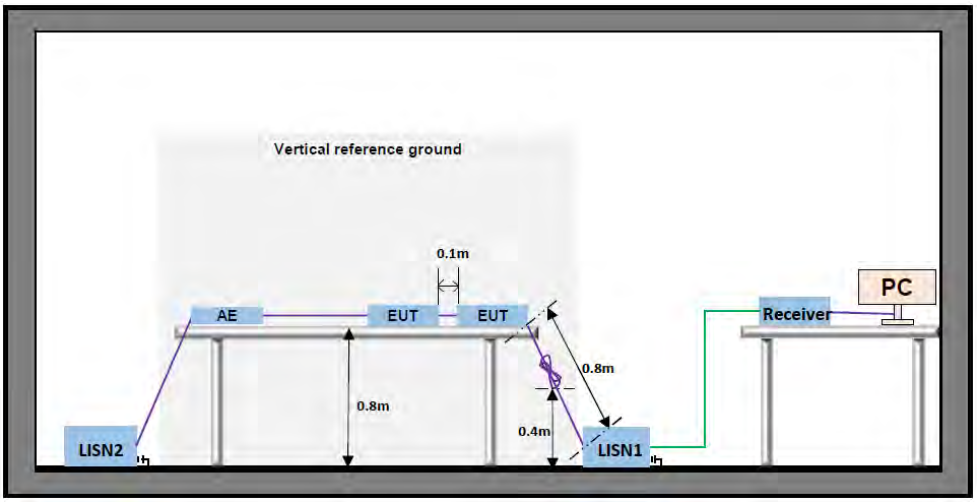
Test Procedure

ANSI C63.10:2020, Section 6.2.

Test Settings

1. The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50μH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
2. The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane.
3. The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
4. Set the test-receiver system to Peak detect function and specified bandwidth (if bandwidth =9kHz) with maximum hod mode. Then measurement is also conducted by average detector and Quasi-Peak detector function respectively.
5. Both sides of AC line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

Test Setup



Measuring Instruments

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

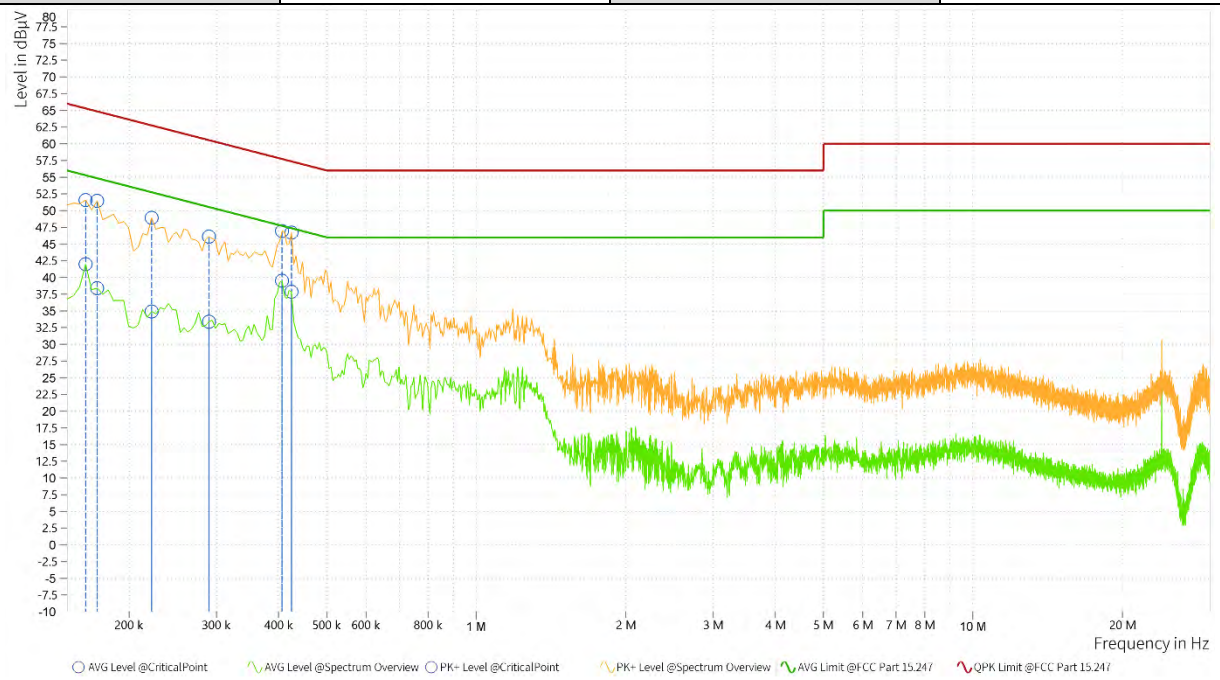
Test Result:

Test mode:	2.4G WIFI		
Test Voltage:	AC 120V/60Hz	Phase:	Line

Rg	Frequency [MHz]	PK+ Level [dBµV]	PK+: QPK Limit [dBµV]	PK+ Margin [dB]	AVG Level [dBµV]	AVG Limit [dBµV]	AVG Margin [dB]	Correction [dB]	Line
1	0.159	53.67	65.52	11.85	39.33	55.52	16.19	9.33	L1
1	0.173	52.06	64.84	12.78	38.72	54.84	16.12	9.44	L1
1	0.227	48.54	62.58	14.03	34.79	52.58	17.79	9.67	L1
1	0.290	46.71	60.54	13.82	32.94	50.54	17.60	9.80	L1
1	0.416	45.82	57.54	11.71	35.26	47.54	12.28	9.76	L1
1	0.488	39.73	56.21	16.48	29.06	46.21	17.15	9.53	L1

Note:
1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Margin[dB] = Limit[dBµV] - Level[dBµV]

Test mode:	2.4G WIFI		
Test Voltage:	AC 120V/60Hz	Phase:	Neutral



Rg	Frequency [MHz]	PK+ Level [dBµV]	PK+: QPK Limit [dBµV]	PK+ Margin [dB]	AVG Level [dBµV]	AVG Limit [dBµV]	AVG Margin [dB]	Correction [dB]	Line
1	0.164	51.57	65.28	13.71	41.99	55.28	13.29	9.50	N
1	0.173	51.47	64.84	13.36	38.40	54.84	16.44	9.52	N
1	0.222	48.91	62.74	13.84	34.91	52.74	17.83	9.55	N
1	0.290	46.10	60.54	14.44	33.36	50.54	17.17	9.58	N
1	0.407	46.93	57.72	10.79	39.51	47.72	8.21	9.59	N
1	0.425	46.69	57.36	10.67	37.85	47.36	9.51	9.59	N

Note:
1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Margin[dB] = Limit[dBµV] - Level[dBµV]

4.3 Output Power

Limits

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

Test Procedure

ANSI C63.10:2020 Section 11.9.1.3(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 attenuator connected to a power meter via wideband power sensor. Peak output power was read directly from power meter.
3. Measure and record the results in the test report.

Test Setup

Refer to section 2.8.1 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.**

4.4 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 ≥ 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 2.8.1 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 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. 3kHz ≤ RBW ≤ 100 kHz
   (If measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat.)
4. VBW ≥ 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 2.8.1 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 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 ≥ 2 x 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 2.8.1 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 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 2.8.1 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.**

4.8 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 - 1252025	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 (μV/m)	Limit (dBμV/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

1. 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.
2. 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.
3. 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.
4. 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.
5. 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, 30MHz-1GHz 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. The "-" shown in the following RSE tables are used to denote a noise floor measurement.

Test Setup

Refer to section 2.8.2 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 C- BT&WIFI Setup Photos**

Appendix

DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11b-CDD	Ant1	2412	8.080	2407.960	2416.040	0.5	PASS
11b-CDD	Ant2	2412	7.600	2407.960	2415.560	0.5	PASS
11b-CDD	Ant1	2437	7.520	2433.000	2440.520	0.5	PASS
11b-CDD	Ant2	2437	8.000	2433.000	2441.000	0.5	PASS
11b-CDD	Ant1	2462	7.080	2458.440	2465.520	0.5	PASS
11b-CDD	Ant2	2462	7.560	2457.960	2465.520	0.5	PASS
11g-CDD	Ant1	2412	15.920	2404.240	2420.160	0.5	PASS
11g-CDD	Ant2	2412	14.680	2405.080	2419.760	0.5	PASS
11g-CDD	Ant1	2437	14.640	2429.240	2443.880	0.5	PASS
11g-CDD	Ant2	2437	16.280	2428.840	2445.120	0.5	PASS
11g-CDD	Ant1	2462	15.680	2453.880	2469.560	0.5	PASS
11g-CDD	Ant2	2462	16.440	2453.720	2470.160	0.5	PASS
11n20MIMO	Ant1	2412	16.920	2403.840	2420.760	0.5	PASS
11n20MIMO	Ant2	2412	17.600	2403.200	2420.800	0.5	PASS
11n20MIMO	Ant1	2437	17.640	2428.160	2445.800	0.5	PASS
11n20MIMO	Ant2	2437	17.560	2428.200	2445.760	0.5	PASS
11n20MIMO	Ant1	2462	17.640	2453.160	2470.800	0.5	PASS
11n20MIMO	Ant2	2462	17.600	2453.200	2470.800	0.5	PASS
11n40MIMO	Ant1	2422	35.680	2404.080	2439.760	0.5	PASS
11n40MIMO	Ant2	2422	36.320	2403.840	2440.160	0.5	PASS
11n40MIMO	Ant1	2437	36.320	2418.840	2455.160	0.5	PASS
11n40MIMO	Ant2	2437	36.320	2418.840	2455.160	0.5	PASS
11n40MIMO	Ant1	2452	36.320	2433.840	2470.160	0.5	PASS
11n40MIMO	Ant2	2452	36.080	2433.840	2469.920	0.5	PASS
11ax20MIMO	Ant1	2412	18.920	2402.560	2421.480	0.5	PASS
11ax20MIMO	Ant2	2412	18.720	2402.760	2421.480	0.5	PASS
11ax20MIMO	Ant1	2437	18.440	2427.640	2446.080	0.5	PASS
11ax20MIMO	Ant2	2437	18.840	2427.600	2446.440	0.5	PASS
11ax20MIMO	Ant1	2462	18.440	2452.640	2471.080	0.5	PASS
11ax20MIMO	Ant2	2462	18.560	2452.640	2471.200	0.5	PASS
11ax40MIMO	Ant1	2422	38.080	2402.960	2441.040	0.5	PASS
11ax40MIMO	Ant2	2422	36.800	2403.120	2439.920	0.5	PASS
11ax40MIMO	Ant1	2437	37.920	2417.960	2455.880	0.5	PASS
11ax40MIMO	Ant2	2437	38.080	2417.960	2456.040	0.5	PASS
11ax40MIMO	Ant1	2452	38.000	2432.960	2470.960	0.5	PASS
11ax40MIMO	Ant2	2452	37.520	2433.040	2470.560	0.5	PASS
11be20MIMO	Ant1	2412	18.760	2402.720	2421.480	0.5	PASS
11be20MIMO	Ant2	2412	18.400	2403.040	2421.440	0.5	PASS
11be20MIMO	Ant1	2437	18.840	2427.480	2446.320	0.5	PASS
11be20MIMO	Ant2	2437	18.480	2427.600	2446.080	0.5	PASS
11be20MIMO	Ant1	2462	15.320	2454.240	2469.560	0.5	PASS
11be20MIMO	Ant2	2462	18.160	2452.560	2470.720	0.5	PASS
11be40MIMO	Ant1	2422	38.000	2403.040	2441.040	0.5	PASS
11be40MIMO	Ant2	2422	38.000	2403.040	2441.040	0.5	PASS
11be40MIMO	Ant1	2437	38.080	2417.960	2456.040	0.5	PASS
11be40MIMO	Ant2	2437	37.760	2418.040	2455.800	0.5	PASS
11be40MIMO	Ant1	2452	37.600	2433.040	2470.640	0.5	PASS
11be40MIMO	Ant2	2452	38.000	2432.960	2470.960	0.5	PASS

Test Graphs

11b-CDD-Ant1-2412-PASS

11b-CDD-Ant2-2412-PASS

11b-CDD-Ant1-2437-PASS

11b-CDD-Ant2-2437-PASS

11b-CDD-Ant1-2462-PASS

11b-CDD-Ant2-2462-PASS

11g-CDD-Ant1-2412-PASS

11g-CDD-Ant2-2412-PASS

11g-CDD-Ant1-2437-PASS

11g-CDD-Ant2-2437-PASS

11g-CDD-Ant1-2462-PASS

11g-CDD-Ant2-2462-PASS

11n20MIMO-Ant1-2412-PASS

11n20MIMO-Ant2-2412-PASS

11n20MIMO-Ant1-2437-PASS

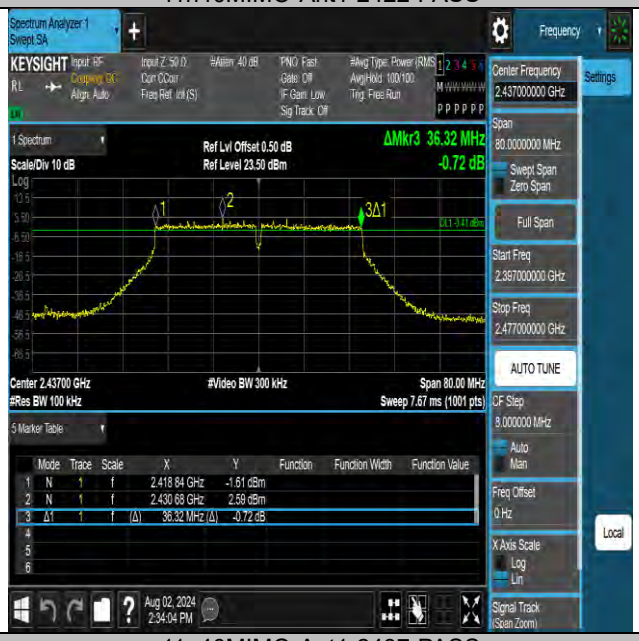
11n20MIMO-Ant2-2437-PASS

11n20MIMO-Ant1-2462-PASS

11n20MIMO-Ant2-2462-PASS

11n40MIMO-Ant1-2422-PASS

11n40MIMO-Ant2-2422-PASS



11n40MIMO-Ant1-2437-PASS

11n40MIMO-Ant2-2437-PASS

11n40MIMO-Ant1-2452-PASS

11n40MIMO-Ant2-2452-PASS

11ax20MIMO-Ant1-2412-PASS

11ax20MIMO-Ant2-2412-PASS

11ax20MIMO-Ant1-2437-PASS

11ax20MIMO-Ant2-2437-PASS

11ax20MIMO-Ant1-2462-PASS

11ax20MIMO-Ant2-2462-PASS

11ax40MIMO-Ant1-2422-PASS

11ax40MIMO-Ant2-2422-PASS

11ax40MIMO-Ant1-2437-PASS

11ax40MIMO-Ant2-2437-PASS

11ax40MIMO-Ant1-2452-PASS

11ax40MIMO-Ant2-2452-PASS

11be20MIMO-Ant1-2412-PASS

11be20MIMO-Ant2-2412-PASS

11be20MIMO-Ant1-2437-PASS

11be20MIMO-Ant2-2437-PASS

11be20MIMO-Ant1-2462-PASS

11be20MIMO-Ant2-2462-PASS

11be40MIMO-Ant1-2422-PASS

11be40MIMO-Ant2-2422-PASS

11be40MIMO-Ant1-2437-PASS

11be40MIMO-Ant2-2437-PASS

11be40MIMO-Ant1-2452-PASS

11be40MIMO-Ant2-2452-PASS

Occupied Channel Bandwidth

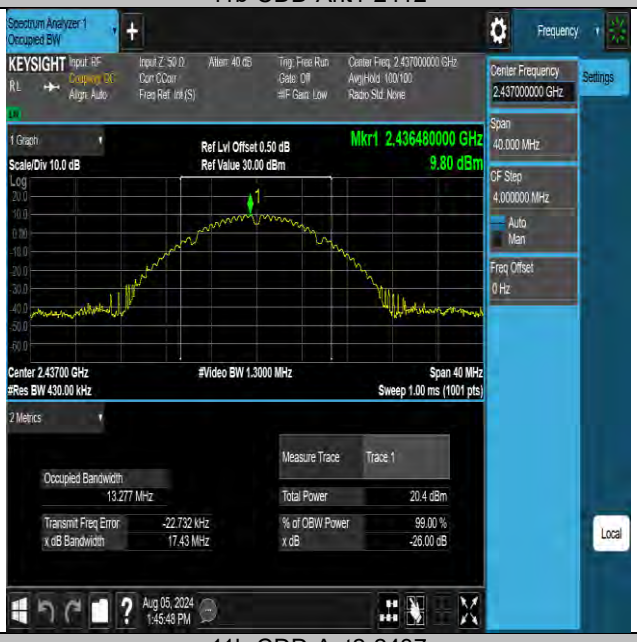
Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11b-CDD	Ant1	2412	12.997	2405.6076	2418.6046	---	---
11b-CDD	Ant2	2412	13.160	2405.5012	2418.6612	---	---
11b-CDD	Ant2	2437	13.277	2430.3388	2443.6158	---	---
11b-CDD	Ant1	2437	13.331	2430.3248	2443.6558	---	---
11b-CDD	Ant1	2462	13.235	2455.2396	2468.4746	---	---
11b-CDD	Ant2	2462	13.172	2455.2988	2468.4708	---	---
11g-CDD	Ant1	2412	17.079	2403.5270	2420.6060	---	---
11g-CDD	Ant2	2412	16.984	2403.5802	2420.5642	---	---
11g-CDD	Ant1	2437	17.100	2428.4138	2445.5138	---	---
11g-CDD	Ant2	2437	17.080	2428.4188	2445.4988	---	---
11g-CDD	Ant1	2462	17.018	2453.3621	2470.3801	---	---
11g-CDD	Ant2	2462	16.935	2453.4513	2470.3863	---	---
11n20MIMO	Ant1	2412	18.189	2402.9628	2421.1518	---	---
11n20MIMO	Ant2	2412	18.080	2403.0285	2421.1085	---	---
11n20MIMO	Ant1	2437	18.204	2427.8620	2446.0660	---	---
11n20MIMO	Ant2	2437	18.155	2427.8842	2446.0392	---	---
11n20MIMO	Ant1	2462	18.132	2452.8403	2470.9723	---	---
11n20MIMO	Ant2	2462	18.124	2452.8530	2470.9770	---	---
11n40MIMO	Ant1	2422	36.686	2403.6966	2440.3826	---	---
11n40MIMO	Ant2	2422	36.760	2403.6755	2440.4355	---	---
11n40MIMO	Ant1	2437	37.049	2418.5133	2455.5623	---	---
11n40MIMO	Ant2	2437	36.773	2418.5551	2455.3281	---	---
11n40MIMO	Ant2	2452	36.736	2433.5518	2470.2878	---	---
11n40MIMO	Ant1	2452	36.789	2433.5800	2470.3690	---	---
11ax20MIMO	Ant1	2412	19.186	2402.4405	2421.6265	---	---
11ax20MIMO	Ant2	2412	19.162	2402.4286	2421.5906	---	---
11ax20MIMO	Ant1	2437	19.180	2427.4063	2446.5863	---	---
11ax20MIMO	Ant2	2437	19.171	2427.4284	2446.5994	---	---
11ax20MIMO	Ant1	2462	19.073	2452.4464	2471.5194	---	---
11ax20MIMO	Ant2	2462	19.117	2452.3762	2471.4932	---	---
11ax40MIMO	Ant1	2422	38.063	2402.9799	2441.0429	---	---
11ax40MIMO	Ant2	2422	38.265	2402.9037	2441.1687	---	---
11ax40MIMO	Ant1	2437	38.241	2417.8727	2456.1137	---	---
11ax40MIMO	Ant2	2437	38.245	2417.8581	2456.1031	---	---
11ax40MIMO	Ant1	2452	38.154	2432.9136	2471.0676	---	---
11ax40MIMO	Ant2	2452	38.179	2432.8302	2471.0092	---	---
11be20MIMO	Ant1	2412	19.157	2402.4854	2421.6424	---	---
11be20MIMO	Ant2	2412	19.130	2402.4691	2421.5991	---	---
11be20MIMO	Ant1	2437	19.101	2427.4453	2446.5463	---	---
11be20MIMO	Ant2	2437	19.154	2427.4218	2446.5758	---	---
11be20MIMO	Ant1	2462	19.087	2452.4033	2471.4903	---	---
11be20MIMO	Ant2	2462	19.153	2452.3752	2471.5282	---	---
11be40MIMO	Ant1	2422	38.148	2402.9349	2441.0829	---	---
11be40MIMO	Ant2	2422	38.119	2402.9526	2441.0716	---	---
11be40MIMO	Ant1	2437	38.343	2417.9019	2456.2449	---	---
11be40MIMO	Ant2	2437	38.245	2417.8693	2456.1143	---	---
11be40MIMO	Ant1	2452	38.188	2432.8168	2471.0048	---	---
11be40MIMO	Ant2	2452	38.203	2432.8582	2471.0612	---	---

Test Graphs

11b-CDD-Ant1-2412

11b-CDD-Ant2-2412



11b-CDD-Ant2-2437

11b-CDD-Ant1-2437

11b-CDD-Ant1-2462

11b-CDD-Ant2-2462

11g-CDD-Ant1-2412

11g-CDD-Ant2-2412

11g-CDD-Ant1-2437

11g-CDD-Ant2-2437

11g-CDD-Ant1-2462

11g-CDD-Ant2-2462

11n20MIMO-Ant1-2412

11n20MIMO-Ant2-2412

11n20MIMO-Ant1-2437

11n20MIMO-Ant2-2437

11n20MIMO-Ant1-2462

11n20MIMO-Ant2-2462

11n40MIMO-Ant1-2422

11n40MIMO-Ant2-2422

11n40MIMO-Ant1-2437

11n40MIMO-Ant2-2437

11n40MIMO-Ant2-2452

11n40MIMO-Ant1-2452

11ax20MIMO-Ant1-2412

11ax20MIMO-Ant2-2412

11ax20MIMO-Ant1-2437

11ax20MIMO-Ant2-2437

11ax20MIMO-Ant1-2462

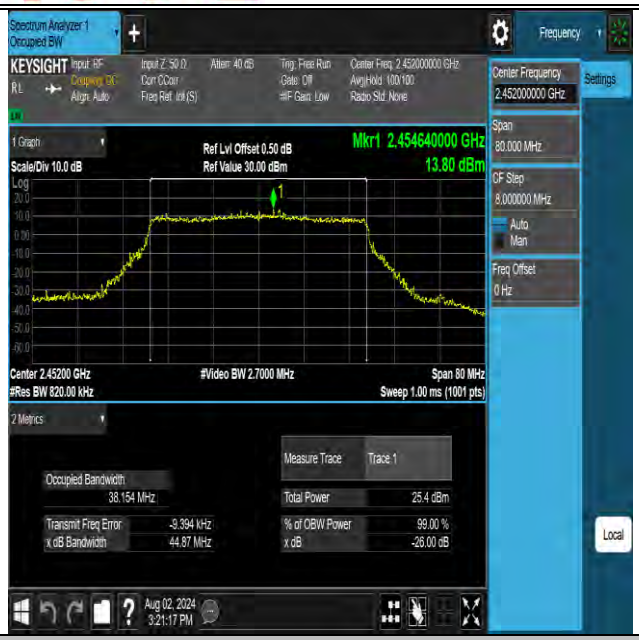
11ax20MIMO-Ant2-2462

11ax40MIMO-Ant1-2422

11ax40MIMO-Ant2-2422

11ax40MIMO-Ant1-2437

11ax40MIMO-Ant2-2437



11ax40MIMO-Ant1-2452

11ax40MIMO-Ant2-2452

11be20MIMO-Ant1-2412

11be20MIMO-Ant2-2412

11be20MIMO-Ant1-2437

11be20MIMO-Ant2-2437

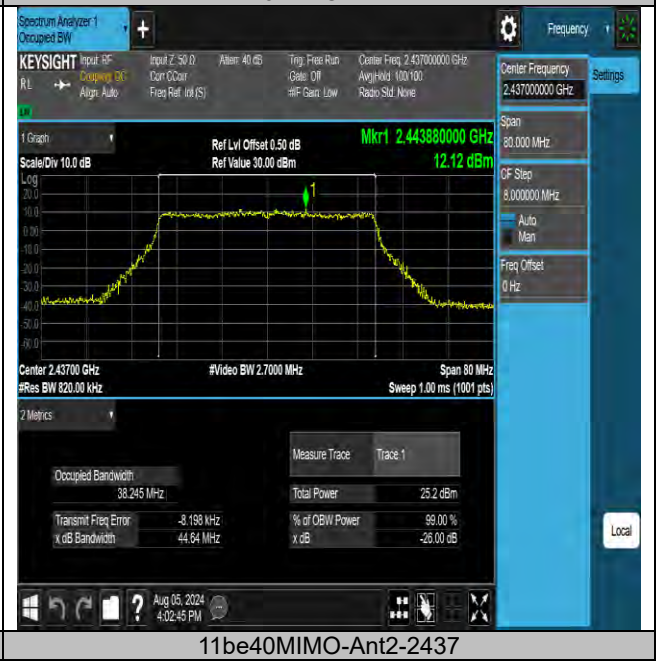
11be20MIMO-Ant1-2462

11be20MIMO-Ant2-2462

11be40MIMO-Ant1-2422

11be40MIMO-Ant2-2422

11be40MIMO-Ant1-2437



11be40MIMO-Ant2-2437

11be40MIMO-Ant1-2452

11be40MIMO-Ant2-2452

Maximum conducted output power

Test Result Peak

TestMode	Antenna	Frequency[MHz]	Peak Power [dBm]	Conducted Limit[dBm]	Verdict
11b-CDD	Ant1	2412	20.746	≤30.00	PASS
11b-CDD	Ant2	2412	20.427	≤30.00	PASS
11b-CDD	total	2412	23.600	≤30.00	PASS
11b-CDD	Ant1	2437	20.402	≤30.00	PASS
11b-CDD	Ant2	2437	20.447	≤30.00	PASS
11b-CDD	total	2437	23.435	≤30.00	PASS
11b-CDD	Ant1	2462	20.322	≤30.00	PASS
11b-CDD	Ant2	2462	20.828	≤30.00	PASS
11b-CDD	total	2462	23.593	≤30.00	PASS
11g-CDD	Ant1	2412	23.150	≤30.00	PASS
11g-CDD	Ant2	2412	23.269	≤30.00	PASS
11g-CDD	total	2412	26.220	≤30.00	PASS
11g-CDD	Ant1	2437	23.186	≤30.00	PASS
11g-CDD	Ant2	2437	23.112	≤30.00	PASS
11g-CDD	total	2437	26.159	≤30.00	PASS
11g-CDD	Ant1	2462	22.582	≤30.00	PASS
11g-CDD	Ant2	2462	22.724	≤30.00	PASS
11g-CDD	total	2462	25.664	≤30.00	PASS
11n20MIMO	Ant1	2412	22.864	≤30.00	PASS
11n20MIMO	Ant2	2412	23.642	≤30.00	PASS
11n20MIMO	total	2412	26.281	≤30.00	PASS
11n20MIMO	Ant1	2437	23.112	≤30.00	PASS
11n20MIMO	Ant2	2437	23.601	≤30.00	PASS
11n20MIMO	total	2437	26.374	≤30.00	PASS
11n20MIMO	Ant1	2462	23.420	≤30.00	PASS
11n20MIMO	Ant2	2462	23.384	≤30.00	PASS
11n20MIMO	total	2462	26.412	≤30.00	PASS
11n40MIMO	Ant1	2422	23.032	≤30.00	PASS
11n40MIMO	Ant2	2422	23.481	≤30.00	PASS
11n40MIMO	total	2422	26.273	≤30.00	PASS
11n40MIMO	Ant1	2437	23.411	≤30.00	PASS
11n40MIMO	Ant2	2437	23.706	≤30.00	PASS
11n40MIMO	total	2437	26.571	≤30.00	PASS
11n40MIMO	Ant1	2452	23.244	≤30.00	PASS
11n40MIMO	Ant2	2452	23.232	≤30.00	PASS
11n40MIMO	total	2452	26.248	≤30.00	PASS
11ax20MIMO	Ant1	2412	22.706	≤30.00	PASS
11ax20MIMO	Ant2	2412	23.109	≤30.00	PASS
11ax20MIMO	total	2412	25.922	≤30.00	PASS
11ax20MIMO	Ant1	2437	23.825	≤30.00	PASS
11ax20MIMO	Ant2	2437	23.881	≤30.00	PASS
11ax20MIMO	total	2437	26.863	≤30.00	PASS
11ax20MIMO	Ant1	2462	23.812	≤30.00	PASS
11ax20MIMO	Ant2	2462	23.277	≤30.00	PASS
11ax20MIMO	total	2462	26.563	≤30.00	PASS
11ax40MIMO	Ant1	2422	23.032	≤30.00	PASS
11ax40MIMO	Ant2	2422	23.651	≤30.00	PASS
11ax40MIMO	total	2422	26.363	≤30.00	PASS
11ax40MIMO	Ant1	2437	24.922	≤30.00	PASS
11ax40MIMO	Ant2	2437	24.225	≤30.00	PASS
11ax40MIMO	total	2437	27.598	≤30.00	PASS
11ax40MIMO	Ant1	2452	23.215	≤30.00	PASS
11ax40MIMO	Ant2	2452	23.461	≤30.00	PASS
11ax40MIMO	total	2452	26.350	≤30.00	PASS
11be20MIMO	Ant1	2412	23.164	≤30.00	PASS
11be20MIMO	Ant2	2412	23.142	≤30.00	PASS
11be20MIMO	total	2412	26.163	≤30.00	PASS
11be20MIMO	Ant1	2437	23.714	≤30.00	PASS
11be20MIMO	Ant2	2437	24.527	≤30.00	PASS
11be20MIMO	total	2437	27.150	≤30.00	PASS
11be20MIMO	Ant1	2462	23.038	≤30.00	PASS
11be20MIMO	Ant2	2462	23.040	≤30.00	PASS
11be20MIMO	total	2462	26.049	≤30.00	PASS

11be40MIMO	Ant1	2422	23.257	≤30.00	PASS
11be40MIMO	Ant2	2422	23.354	≤30.00	PASS
11be40MIMO	total	2422	26.316	≤30.00	PASS
11be40MIMO	Ant1	2437	23.812	≤30.00	PASS
11be40MIMO	Ant2	2437	23.703	≤30.00	PASS
11be40MIMO	total	2437	26.768	≤30.00	PASS
11be40MIMO	Ant1	2452	23.697	≤30.00	PASS
11be40MIMO	Ant2	2452	23.722	≤30.00	PASS
11be40MIMO	total	2452	26.720	≤30.00	PASS

Test Result Average

TestMode	Antenna	Frequency[MHz]	Average Power [dBm]	Conducted Limit[dBm]	Verdict
11b-CDD	Ant1	2412	17.815	≤30.00	PASS
11b-CDD	Ant2	2412	17.591	≤30.00	PASS
11b-CDD	total	2412	20.715	≤30.00	PASS
11b-CDD	Ant1	2437	17.552	≤30.00	PASS
11b-CDD	Ant2	2437	17.606	≤30.00	PASS
11b-CDD	total	2437	20.589	≤30.00	PASS
11b-CDD	Ant1	2462	17.493	≤30.00	PASS
11b-CDD	Ant2	2462	17.871	≤30.00	PASS
11b-CDD	total	2462	20.696	≤30.00	PASS
11g-CDD	Ant1	2412	17.501	≤30.00	PASS
11g-CDD	Ant2	2412	17.637	≤30.00	PASS
11g-CDD	total	2412	20.580	≤30.00	PASS
11g-CDD	Ant1	2437	17.934	≤30.00	PASS
11g-CDD	Ant2	2437	17.201	≤30.00	PASS
11g-CDD	total	2437	20.593	≤30.00	PASS
11g-CDD	Ant1	2462	17.386	≤30.00	PASS
11g-CDD	Ant2	2462	17.442	≤30.00	PASS
11g-CDD	total	2462	20.424	≤30.00	PASS
11n20MIMO	Ant1	2412	17.449	≤30.00	PASS
11n20MIMO	Ant2	2412	17.579	≤30.00	PASS
11n20MIMO	total	2412	20.525	≤30.00	PASS
11n20MIMO	Ant1	2437	17.921	≤30.00	PASS
11n20MIMO	Ant2	2437	17.933	≤30.00	PASS
11n20MIMO	total	2437	20.937	≤30.00	PASS
11n20MIMO	Ant1	2462	17.075	≤30.00	PASS
11n20MIMO	Ant2	2462	17.168	≤30.00	PASS
11n20MIMO	total	2462	20.132	≤30.00	PASS
11n40MIMO	Ant1	2422	16.246	≤30.00	PASS
11n40MIMO	Ant2	2422	16.725	≤30.00	PASS
11n40MIMO	total	2422	19.502	≤30.00	PASS
11n40MIMO	Ant1	2437	17.230	≤30.00	PASS
11n40MIMO	Ant2	2437	17.416	≤30.00	PASS
11n40MIMO	total	2437	20.334	≤30.00	PASS
11n40MIMO	Ant1	2452	16.495	≤30.00	PASS
11n40MIMO	Ant2	2452	16.590	≤30.00	PASS
11n40MIMO	total	2452	19.553	≤30.00	PASS
11ax20MIMO	Ant1	2412	16.125	≤30.00	PASS
11ax20MIMO	Ant2	2412	16.501	≤30.00	PASS
11ax20MIMO	total	2412	19.327	≤30.00	PASS
11ax20MIMO	Ant1	2437	17.128	≤30.00	PASS
11ax20MIMO	Ant2	2437	17.217	≤30.00	PASS
11ax20MIMO	total	2437	20.183	≤30.00	PASS
11ax20MIMO	Ant1	2462	16.116	≤30.00	PASS
11ax20MIMO	Ant2	2462	16.385	≤30.00	PASS
11ax20MIMO	total	2462	19.263	≤30.00	PASS
11ax40MIMO	Ant1	2422	16.443	≤30.00	PASS
11ax40MIMO	Ant2	2422	16.654	≤30.00	PASS
11ax40MIMO	total	2422	19.560	≤30.00	PASS
11ax40MIMO	Ant1	2437	17.403	≤30.00	PASS
11ax40MIMO	Ant2	2437	17.587	≤30.00	PASS
11ax40MIMO	total	2437	20.506	≤30.00	PASS
11ax40MIMO	Ant1	2452	16.671	≤30.00	PASS
11ax40MIMO	Ant2	2452	16.675	≤30.00	PASS
11ax40MIMO	total	2452	19.683	≤30.00	PASS
11be20MIMO	Ant1	2412	16.134	≤30.00	PASS
11be20MIMO	Ant2	2412	16.514	≤30.00	PASS
11be20MIMO	total	2412	19.338	≤30.00	PASS
11be20MIMO	Ant1	2437	17.131	≤30.00	PASS
11be20MIMO	Ant2	2437	17.990	≤30.00	PASS
11be20MIMO	total	2437	20.592	≤30.00	PASS
11be20MIMO	Ant1	2462	16.140	≤30.00	PASS
11be20MIMO	Ant2	2462	16.410	≤30.00	PASS
11be20MIMO	total	2462	19.287	≤30.00	PASS
11be40MIMO	Ant1	2422	16.287	≤30.00	PASS

11be40MIMO	Ant2	2422	16.566	≤30.00	PASS
11be40MIMO	total	2422	19.439	≤30.00	PASS
11be40MIMO	Ant1	2437	17.248	≤30.00	PASS
11be40MIMO	Ant2	2437	17.447	≤30.00	PASS
11be40MIMO	total	2437	20.359	≤30.00	PASS
11be40MIMO	Ant1	2452	16.552	≤30.00	PASS
11be40MIMO	Ant2	2452	16.474	≤30.00	PASS
11be40MIMO	total	2452	19.523	≤30.00	PASS