

# **TEST REPORT**

**Applicant:** NETPRISMA INC.

**EUT Description:** Multi-mode Smart LTE Module with Wi-Fi & Bluetooth

**Model:** SUC200-LD

**Brand:** Vrileg

**FCC ID:** 2BEY3SUC200LDA

**Standards:** FCC 47 CFR Part 15 Subpart E

**Date of Receipt:** 2025/03/03

**Date of Test:** 2025/03/03 to 2025/04/10

**Date of Issue:** 2025/04/14

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 be "Huang Kun".

**Huang Kun**  
**Approved By:**

A handwritten signature in black ink, appearing to be "Chen Chengfu".

**Chen Chengfu**  
**Reviewed By:**

## Revision History

Rev.	Issue Date	Description	Revised by
01	2025/04/14	Original	Chen Chengfu

## Summary of Test Results

Clause	FCC Part	Test Items	Test Bands	Result
4.1	§15.203	Antenna Requirement	---	PASS
4.2	§15.407(g)	Frequency Stability	---	---
4.3	§15.207	AC Power Line Conducted Emission	Section 2.2	N/A
4.4	§15.407(a)(1)(iv) §15.407(a)(2) §15.407(a)(3)(i)	Maximum Conducted Output Power	U-NII-1 U-NII-2A U-NII-2C U-NII-3	PASS
4.5	§KDB 789033 II.C.1	Emission Bandwidth	U-NII-1 U-NII-2A U-NII-2C	Reporting purposes only
4.6	§15.407(e)	Minimum Emission Bandwidth	U-NII-3	PASS
4.7	§KDB 789033 II.D	Occupied Bandwidth	U-NII-1 U-NII-2A U-NII-2C U-NII-3	Reporting purposes only
4.8	§15.407(a)(1)(iv) §15.407(a)(2) §15.407(a)(3)(i)	Maximum Power Spectral Density	U-NII-1 U-NII-2A U-NII-2C U-NII-3	PASS
4.9	§15.407(b) §15.209(d)	Unwanted Emissions	U-NII-1 U-NII-2A U-NII-2C U-NII-3	PASS

Test Method: ANSI C63.10:2020, KDB 789033 D02 General UNII Test Procedures New Rules v02r01

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 3<sup>rd</sup> 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:	NETPRISMA INC.
Address:	1301 6TH AVE, SEATTLE, WA, 98101-2304, UNITED STATES

#### 1.2.2 Manufacturer

Manufacturer:	NETPRISMA INC.
Address:	1301 6TH AVE, SEATTLE, WA, 98101-2304, UNITED STATES

## 1.3 Product Information

EUT Description:	Multi-mode Smart LTE Module with Wi-Fi & Bluetooth			
Model:	SUC200-LD			
Brand:	Vrileg			
Hardware Version:	R1.0			
Software Version:	SUC200LDNA0101			
SN:	RF Conducted	E1C24LP16000067		
	RSE	E1C24LP16000014		
Modulation Type:	802.11a&n:	OFDM-BPSK, QPSK, 16QAM, 64QAM		
	802.11ac:	OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM		
Smart System:	<input checked="" type="checkbox"/> SISO:	802.11a/n/ac	/	
	<input type="checkbox"/> MIMO:	802.11n/ac	( )TX( )RX	
	<input type="checkbox"/> CDD:	802.11a	( )TX( )RX	
EUT Function	<input checked="" type="checkbox"/> Client	<input type="checkbox"/> Outdoor AP	<input type="checkbox"/> Indoor AP <input type="checkbox"/> Fixed P2P AP	
DFS Function:	<input type="checkbox"/> Master <input type="checkbox"/> Slave with radar detection <input checked="" type="checkbox"/> Slave without radar detection			
Frequency Range:	U-NII-1:	5150 ~ 5250MHz		
	U-NII-2A:	5250 ~ 5350MHz		
	U-NII-2C:	5470 ~ 5725MHz		
	U-NII-3:	5725 ~ 5850MHz		
Channel Frequency:	20M BWch.:	U-NII-1:	5180 ~ 5240MHz	4 Channels
		U-NII-2A:	5260 ~ 5320MHz	4 Channels
		U-NII-2C:	5500 ~ 5700MHz	11 Channels
		U-NII-3:	5745 ~ 5825MHz	5 Channels
	40M BWch.:	U-NII-1:	5190 ~ 5230MHz	2 Channels
		U-NII-2A:	5270 ~ 5310MHz	2 Channels
		U-NII-2C:	5510 ~ 5670MHz	5 Channels
		U-NII-3:	5755 ~ 5795MHz	2 Channels
	80M BWch.:	U-NII-1:	5210MHz	1 Channel
		U-NII-2A:	5290MHz	1 Channel
		U-NII-2C:	5530 ~ 5610MHz	2 Channels
		U-NII-3:	5775MHz	1 Channel
Antenna Type:	<input checked="" type="checkbox"/> External, <input type="checkbox"/> Integrated			
Antenna Gain:	Frequency Range	Ant0 (dBi)		
	U-NII-1:	-0.67		
	U-NII-2A:	-0.19		
	U-NII-2C:	1.28		
	U-NII-3:	1.1		
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 for U-NII-1							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
36	5180MHz	40	5200MHz	44	5220MHz	48	5240MHz
38	5190MHz	42	5210MHz	46	5230MHz	/	
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			
802.11a/n20 /ac20		The Lowest channel (CH36)		5180MHz			
		The Middle channel (CH40)		5200MHz			
		The Highest channel (CH48)		5240MHz			
Modulation Type		Test Channel		Test Frequency			
802.11n40 /ac40		The Lowest channel (CH38)		5190MHz			
		The Highest channel (CH46)		5230MHz			
Modulation Type		Test Channel		Test Frequency			
802.11ac80		The Middle channel (CH42)		5210MHz			

Frequency Channels for U-NII-2A							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
52	5260MHz	56	5280MHz	60	5300MHz	64	5320MHz
54	5270MHz	58	5290MHz	62	5310MHz	/	
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			
802.11a/n20 /ac20		The Lowest channel (CH52)		5260MHz			
		The Middle channel (CH60)		5300MHz			
		The Highest channel (CH64)		5320MHz			
Modulation Type		Test Channel		Test Frequency			
802.11n40 /ac40		The Lowest channel (CH54)		5270MHz			
		The Highest channel (CH62)		5310MHz			
Modulation Type		Test Channel		Test Frequency			
802.11ac80		The Middle channel (CH58)		5290MHz			

Frequency Channels for U-NII-2C

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
100	5500MHz	110	5550MHz	120	5600MHz	132	5660MHz
102	5510MHz	112	5560MHz	122	5610MHz	134	5670MHz
104	5520MHz	114	5570MHz	124	5620MHz	136	5680MHz
106	5530MHz	116	5580MHz	126	5630MHz	140	5700MHz
108	5540MHz	118	5590MHz	128	5640MHz	/	

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
802.11a/n20 /ac20	The Lowest channel (CH100)	5500MHz
	The Middle channel (CH116)	5580MHz
	The Highest channel (CH140)	5700MHz
Modulation Type	Test Channel	Test Frequency
802.11n40 /ac40	The Lowest channel (CH102)	5510MHz
	The Middle channel (CH118)	5590MHz
	The Highest channel (CH134)	5670MHz
Modulation Type	Test Channel	Test Frequency
802.11ac80	The Lowest channel (CH106)	5530MHz
	The Highest channel (CH122)	5610MHz

Frequency Channels for U-NII-3

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
149	5745MHz	153	5765MHz	157	5785MHz	161	5805MHz
151	5755MHz	155	5775MHz	159	5795MHz	165	5825MHz

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
802.11a/n20 /ac20	The Lowest channel (CH149)	5745MHz
	The Middle channel (CH157)	5785MHz
	The Highest channel (CH165)	5825MHz
Modulation Type	Test Channel	Test Frequency
802.11n40 /ac40	The Lowest channel (CH151)	5755MHz
	The Highest channel (CH159)	5795MHz
Modulation Type	Test Channel	Test Frequency
802.11ac80	The Middle channel (CH155)	5775MHz



## 2.2 Worst-case configuration and Mode

Modulation Type	SISO - Data Rate	MIMO - Data Rate
802.11a	6 Mbps	NA
802.11n20	MCS0 (6.5 Mbps)	NA
802.11n40	MCS0 (13.5 Mbps)	NA
802.11ac20	MCS0 (6.5 Mbps)	NA
802.11ac40	MCS0 (13.5 Mbps)	NA
802.11ac80	MCS0 (29.3 Mbps)	NA
Transmitting mode:	Keep the EUT was programmed to be in continuously transmitting mode.	
Normal Link:	Keep the EUT operation to normal function.	

## 2.3 Support Unit used in test

Description	Manufacturer	Model	Serial Number
Development Board	NETPRISMA INC.	SMART-EVB-G5	/
Development Board	NETPRISMA INC.	SUC200-LD-TE-A	/
Remark: all above the information of table are provided by client.			

## 2.4 Test Environment

Temperature:	Normal: 15°C ~ 35°C
Humidity:	45-56 % RH Ambient
Voltage:	DC 3.8V (Module Input)
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.

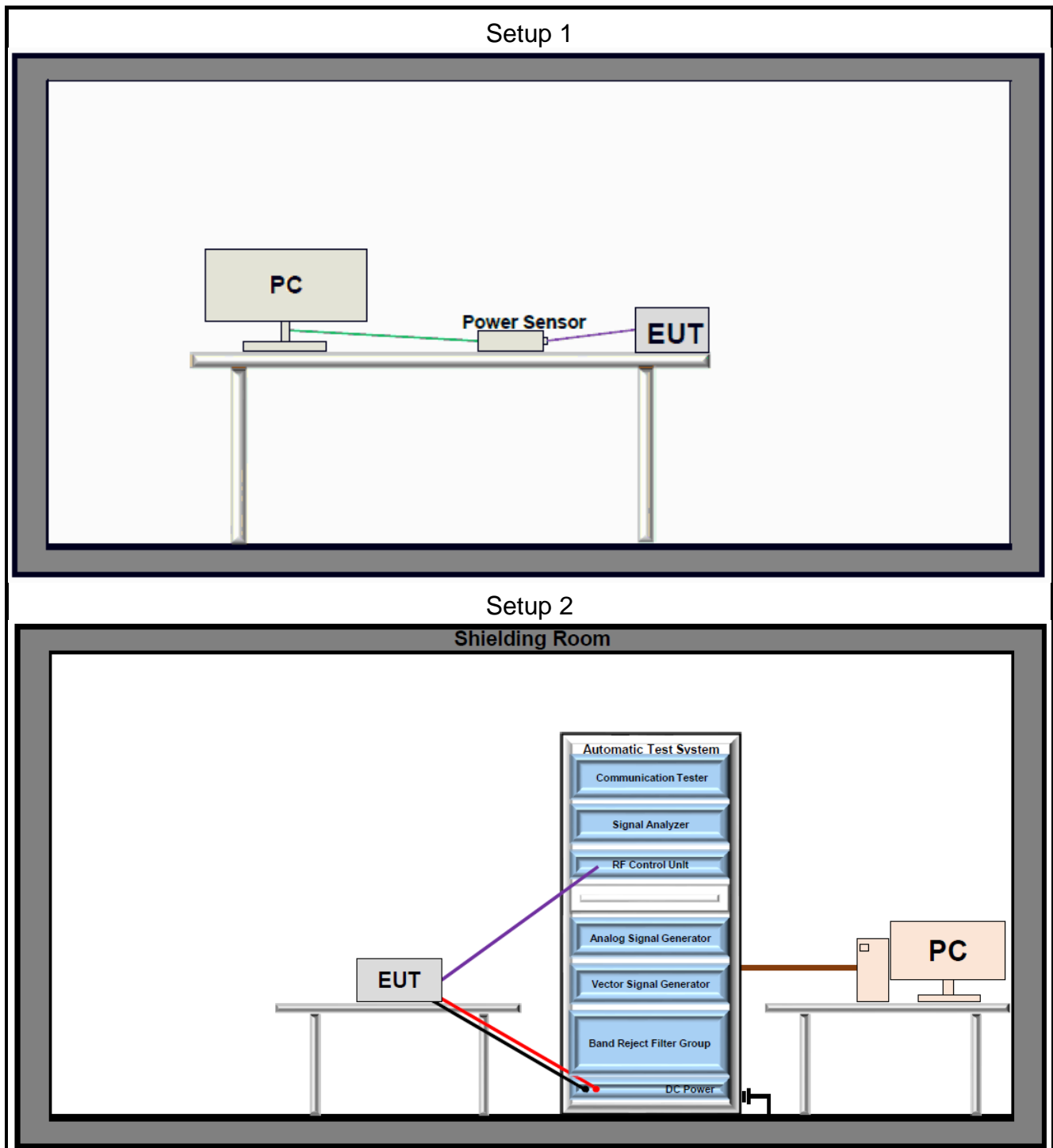
Offset = RF cable loss + attenuator factor.

## 2.6 Modifications

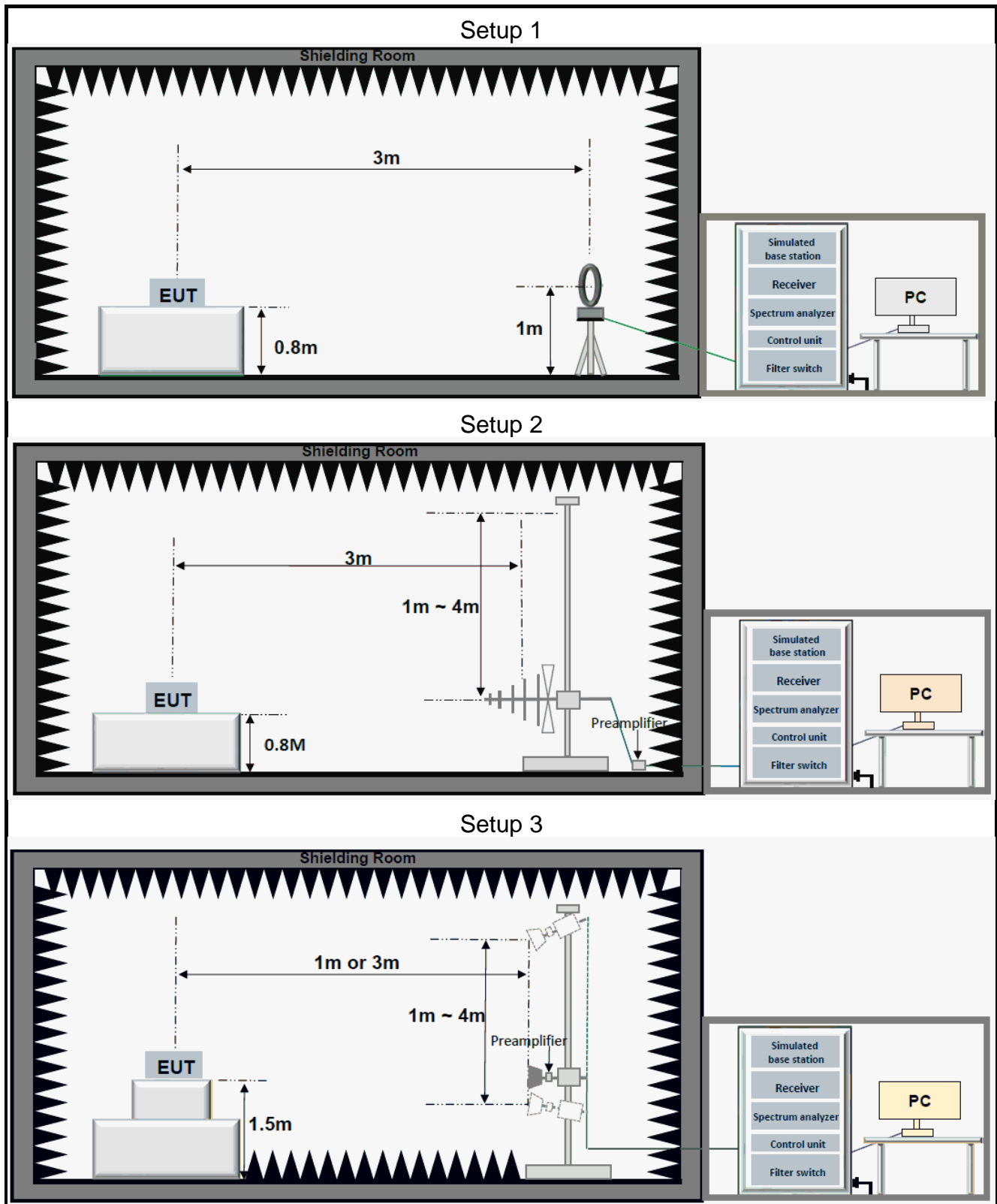
No modifications were made during testing.

## 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

Description	Manufacturer	Model	S.N.	Last Due	Cal Due
Signal Analyzer	Keysight	N9020A	US46470429	2024/03/25	2025/03/24
				2025/03/14	2026/03/13
Power Sensor	Anritsu	MA24408A	12520	2024/05/30	2025/05/29
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	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
				2025/03/11	2026/03/10
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
				2025/03/11	2026/03/10
Low Noise Amplifier	Tonscend	TAP9K3G40	AP23A8060273	2023/04/08	2025/04/07
				2025/03/11	2027/03/10
Low Noise Amplifier	Tonscend	TAP01018050	AP22G806258	2023/04/08	2025/04/07
				2025/03/11	2027/03/10
Low Noise Amplifier	Tonscend	TAP18040048	AP22G806247	2023/04/08	2025/04/07
				2025/03/11	2027/03/10
Hygrometer	BINGYU	HTC-1	N/A	2023/06/01	2025/05/31
Test Software	Tonscend	TS+	Version: 5.0.0	N/A	N/A

### 3.2 Measurement Uncertainty

Parameter	U <sub>lab</sub>
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

<b>Standard Applicable:</b>	47 CFR Part 15C Section 15.203
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.	
The antenna gain and type as provided by the manufacturer are as follows: The antenna Type is External. With maximum gain is U-NII-1: -0.67dBi; U-NII-2A: -0.19dBi; U-NII-2C: 1.28dBi; U-NII-3: 1.1dBi; Antenna Anti-Replacement Construction: An embedded-in antenna design is used.	

### 4.2 Frequency Stability

<b>Standard Applicable:</b>	47 CFR Part 15C Section 15.407(g)
Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.	

## 4.3 Maximum Conducted Output Power

### Limits

For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi.

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or  $11 \text{ dBm} + 10 \log B$ , where B is the 26 dB emission bandwidth in megahertz.

For the band 5.725-5.850 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W.

### Test Procedure

KDB 789033 D02 General UNII Test Procedures New Rules v02r01 Section II.E.2.b (Other Channel)

KDB 789033 D02 General UNII Test Procedures New Rules v02r01 Section II.E.3.b(Straddle Channel)

### Test Settings

1. PM-G:  
Set to the maximum power setting and enable the EUT transmit continuously.  
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.  
Measure and record the results in the test report.
2. SA:  
RBW = 1MHz  
VBW  $\geq$  3MHz  
Span = Encompass the EBW (or, alternatively, the entire 99% occupied bandwidth)  
Sweep = Auto  
Detector = power averaging (rms)

### 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**.

## 4.4 Emission Bandwidth

### Limits

None, for reporting purposes only.

### Test Procedure

KDB 789033 D02 General UNII Test Procedures New Rules v02r01 Section II.C.1.

### 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 = 1% - 5%(99%BW)
4. VBW = 3 times the RBW
5. Sweep = Auto
6. Detector = Peak
7. Trace = Max hold
8. The trace was allowed to stabilize
9. Measure and record the results in the test report.

### Test Notes

The signal analyzers' automatic bandwidth measurement capability of the spectrum analyzer was used to perform the 26dB bandwidth measurement. The "X" dB bandwidth parameter was set to X= 26. 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**.



## 4.5 Minimum Emission Bandwidth

### Limits

Within the 5.725-5.850 GHz and 5.850-5.895 GHz bands, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

### Test Procedure

KDB 789033 D02 General UNII Test Procedures New Rules v02r01 Section II.C.2.

### 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. VBW = 3 times the RBW
5. Sweep = Auto
6. Detector = Peak
7. Trace = Max hold
8. The trace was allowed to stabilize
9. Measure and record the results in the test report.

### Test Notes

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

### 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 Occupied Bandwidth

### Limits

None, for reporting purposes only.

### Test Procedure

KDB 789033 D02 General UNII Test Procedures New Rules v02r01 Section II.D.

### 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 = 1% - 5%(99%BW)
4. VBW = 3 times the RBW
5. Sweep = Auto
6. Detector = Peak
7. Trace = Max hold
8. The trace was allowed to stabilize
9. 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 Maximum Power Spectral Density

### Limits

For client devices in the 5.15-5.25 GHz band, the maximum power spectral density shall not exceed 11 dBm in any 1-megahertz band.

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum power spectral density shall not exceed 11 dBm in any 1-megahertz band.

For the band 5.725-5.85 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band.

### Test Procedure

KDB 789033 D02 General UNII Test Procedures New Rules v02r01 Section II.F

### 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 = 1MHz (for 5.15–5.25 GHz, 5.25–5.35 GHz, and 5.47–5.725 GHz)
4. RBW = 500kHz (for 5.725–5.85 GHz)
5. VBW  $\geq$  3 times 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**.

## 4.8 Unwanted Emissions

### 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	

Un-restricted band emissions above 1GHz limit:

For transmitters operating in the 5.15-5.25 GHz band:

All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

For transmitters operating in the 5.25-5.35 GHz band:

All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

For transmitters operating in the 5.47-5.725 GHz band:

All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

For transmitters operating solely in the 5.725-5.850 GHz band:

All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

### Test Procedure

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

KDB 789033 D02 General UNII Test Procedures New Rules v02r01 Section II.G.3 ~ 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 80cm 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. The simulated base station was set to force the EUT to its maximum transmitting power.
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 Below 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 2.7.2 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-C BTWIFI Setup Photos**

# Appendix

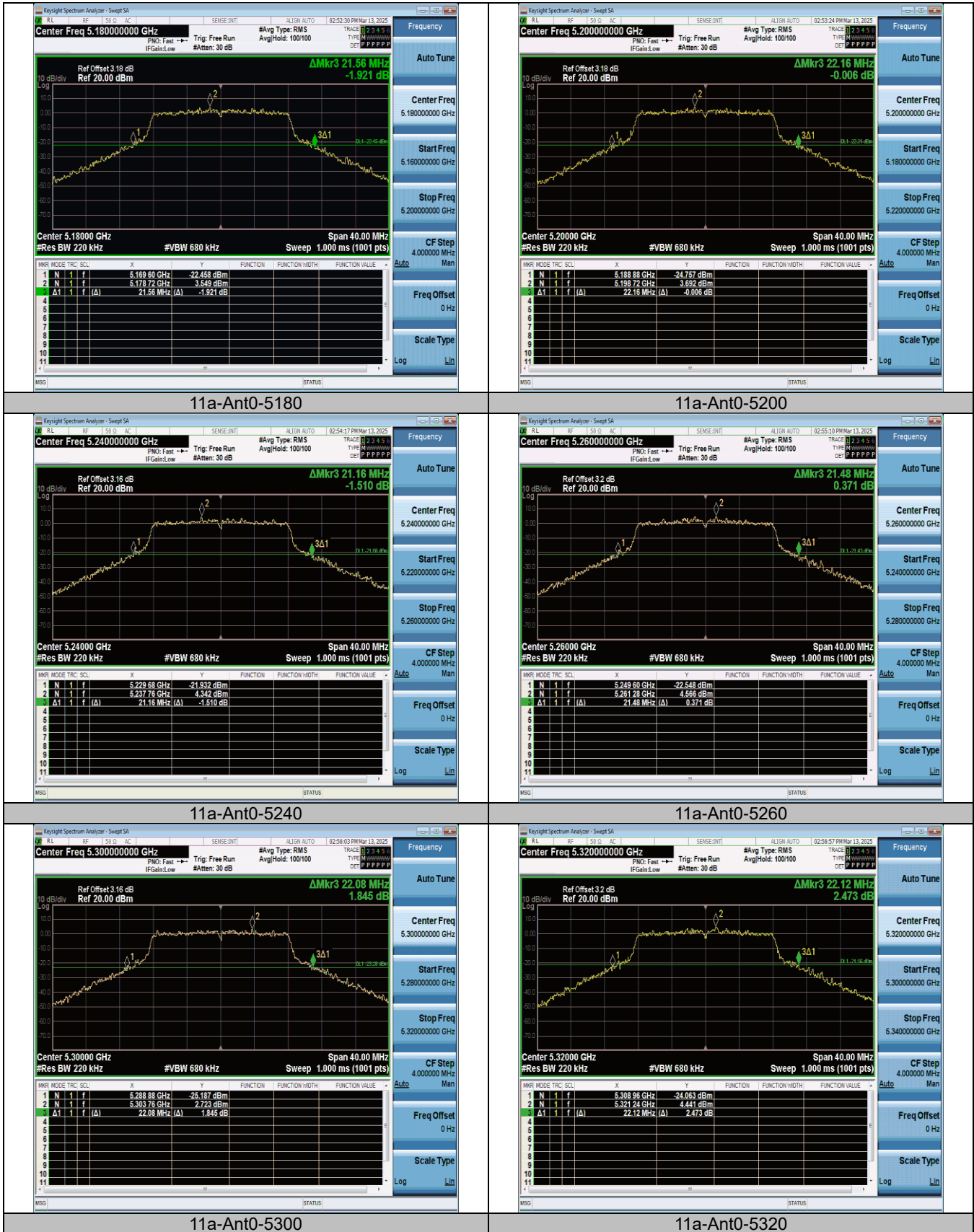
## Emission Bandwidth Test Result

TestMode	Antenna	Frequency[MHz]	26dB EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11a	Ant0	5180	21.560	5169.600	5191.160	---	---
11a	Ant0	5200	22.160	5188.880	5211.040	---	---
11a	Ant0	5240	21.160	5229.680	5250.840	---	---
11a	Ant0	5260	21.480	5249.600	5271.080	---	---
11a	Ant0	5300	22.080	5288.880	5310.960	---	---
11a	Ant0	5320	22.120	5308.960	5331.080	---	---
11a	Ant0	5500	22.080	5489.000	5511.080	---	---
11a	Ant0	5580	22.320	5568.680	5591.000	---	---
11a	Ant0	5700	21.480	5689.600	5711.080	---	---
11a	Ant0	5745	21.840	5733.840	5755.680	---	---
11a	Ant0	5785	22.200	5773.640	5795.840	---	---
11a	Ant0	5825	21.160	5814.600	5835.760	---	---
11n20SISO	Ant0	5180	22.240	5168.960	5191.200	---	---
11n20SISO	Ant0	5200	22.560	5189.120	5211.680	---	---
11n20SISO	Ant0	5240	22.360	5228.640	5251.000	---	---
11n20SISO	Ant0	5260	21.200	5249.400	5270.600	---	---
11n20SISO	Ant0	5300	22.560	5288.960	5311.520	---	---
11n20SISO	Ant0	5320	23.120	5308.600	5331.720	---	---
11n20SISO	Ant0	5500	22.000	5489.040	5511.040	---	---
11n20SISO	Ant0	5580	22.920	5568.520	5591.440	---	---
11n20SISO	Ant0	5700	22.360	5688.840	5711.200	---	---
11n20SISO	Ant0	5745	21.880	5734.120	5756.000	---	---
11n20SISO	Ant0	5785	21.320	5774.480	5795.800	---	---
11n20SISO	Ant0	5825	22.760	5813.960	5836.720	---	---
11n40SISO	Ant0	5190	40.960	5169.600	5210.560	---	---
11n40SISO	Ant0	5230	40.880	5209.760	5250.640	---	---
11n40SISO	Ant0	5270	41.120	5249.600	5290.720	---	---
11n40SISO	Ant0	5310	40.480	5289.840	5330.320	---	---
11n40SISO	Ant0	5510	40.880	5489.760	5530.640	---	---
11n40SISO	Ant0	5590	40.880	5569.760	5610.640	---	---
11n40SISO	Ant0	5670	40.960	5649.600	5690.560	---	---
11n40SISO	Ant0	5755	41.760	5733.880	5775.640	---	---
11n40SISO	Ant0	5795	40.880	5774.600	5815.480	---	---
11ac20SISO	Ant0	5180	22.000	5169.080	5191.080	---	---
11ac20SISO	Ant0	5200	22.480	5188.760	5211.240	---	---
11ac20SISO	Ant0	5240	22.760	5228.680	5251.440	---	---
11ac20SISO	Ant0	5260	22.280	5249.000	5271.280	---	---
11ac20SISO	Ant0	5300	23.280	5288.080	5311.360	---	---
11ac20SISO	Ant0	5320	22.720	5308.960	5331.680	---	---
11ac20SISO	Ant0	5500	23.760	5488.080	5511.840	---	---
11ac20SISO	Ant0	5580	21.760	5569.240	5591.000	---	---
11ac20SISO	Ant0	5700	22.560	5688.240	5710.800	---	---
11ac20SISO	Ant0	5745	22.160	5733.680	5755.840	---	---
11ac20SISO	Ant0	5785	22.920	5773.880	5796.800	---	---
11ac20SISO	Ant0	5825	21.800	5814.000	5835.800	---	---
11ac40SISO	Ant0	5190	41.040	5169.760	5210.800	---	---
11ac40SISO	Ant0	5230	41.120	5209.600	5250.720	---	---
11ac40SISO	Ant0	5270	40.800	5249.520	5290.320	---	---
11ac40SISO	Ant0	5310	41.040	5289.520	5330.560	---	---
11ac40SISO	Ant0	5510	41.280	5489.360	5530.640	---	---
11ac40SISO	Ant0	5590	41.120	5569.520	5610.640	---	---
11ac40SISO	Ant0	5670	40.960	5649.680	5690.640	---	---
11ac40SISO	Ant0	5755	41.040	5734.440	5775.480	---	---
11ac40SISO	Ant0	5795	40.960	5774.520	5815.480	---	---
11ac80SISO	Ant0	5210	89.920	5163.760	5253.680	---	---
11ac80SISO	Ant0	5290	90.080	5243.920	5334.000	---	---

11ac80SISO	Ant0	5530	94.880	5482.160	5577.040	---	---
11ac80SISO	Ant0	5610	91.360	5562.640	5654.000	---	---
11ac80SISO	Ant0	5775	91.360	5727.000	5818.360	---	---



## Test Graphs





11a-Ant0-5500



11a-Ant0-5580



11a-Ant0-5700



11a-Ant0-5745



11a-Ant0-5785



11a-Ant0-5825



11n20SISO-Ant0-5180



11n20SISO-Ant0-5200



11n20SISO-Ant0-5240



11n20SISO-Ant0-5260



11n20SISO-Ant0-5300



11n20SISO-Ant0-5320



11n20SISO-Ant0-5500



11n20SISO-Ant0-5580



11n20SISO-Ant0-5700



11n20SISO-Ant0-5745

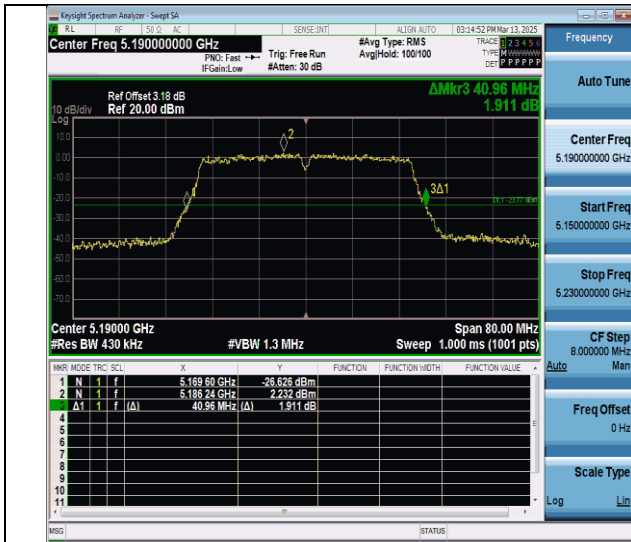


11n20SISO-Ant0-5785



11n20SISO-Ant0-5825





11n40SISO-Ant0-5190



11n40SISO-Ant0-5230



11n40SISO-Ant0-5270



11n40SISO-Ant0-5310



11n40SISO-Ant0-5510



11n40SISO-Ant0-5590



11n40SISO-Ant0-5670



11n40SISO-Ant0-5755



11n40SISO-Ant0-5795



11ac20SISO-Ant0-5180



11ac20SISO-Ant0-5200



11ac20SISO-Ant0-5240



11ac20SISO-Ant0-5260



11ac20SISO-Ant0-5300



11ac20SISO-Ant0-5320



11ac20SISO-Ant0-5500



11ac20SISO-Ant0-5580



11ac20SISO-Ant0-5700



11ac20SISO-Ant0-5745



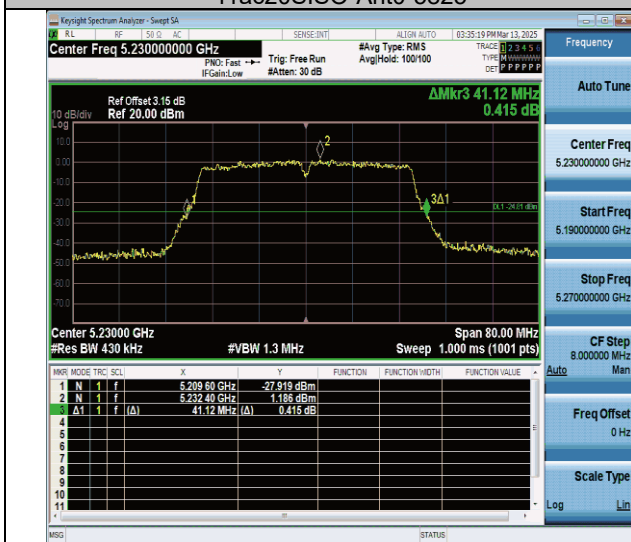
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11ac20SISO-Ant0-5825



11ac40SISO-Ant0-5190

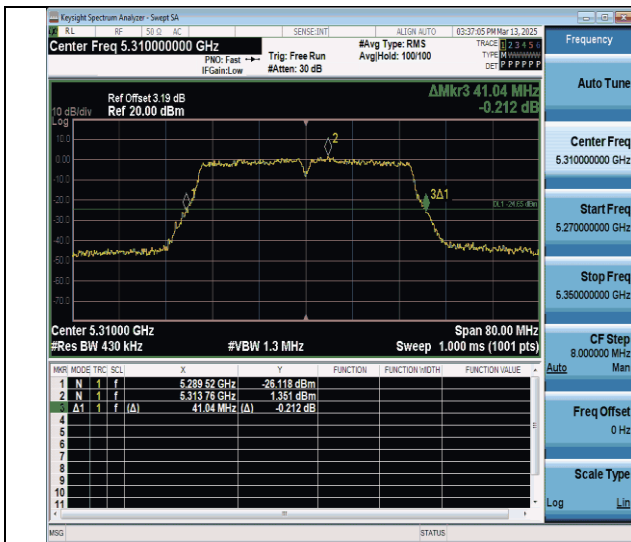


11ac40SISO-Ant0-5230



11ac40SISO-Ant0-5270

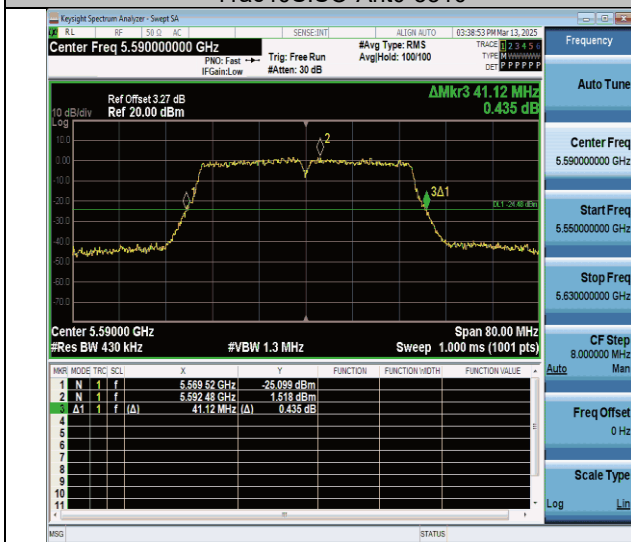




11ac40SISO-Ant0-5310



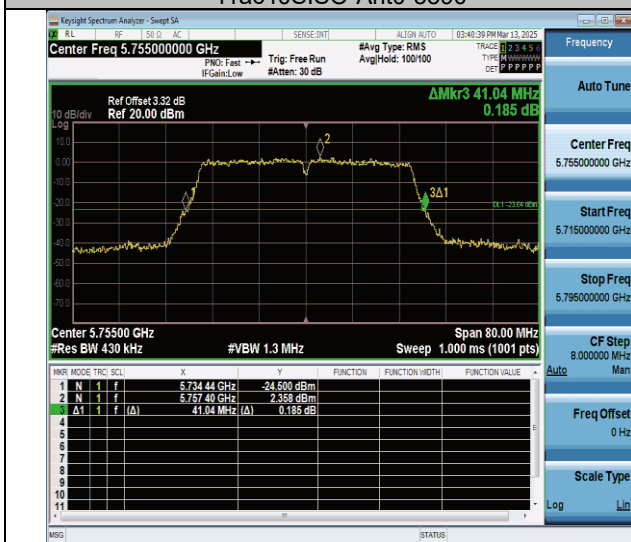
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11ac40SISO-Ant0-5590



11ac40SISO-Ant0-5670



11ac40SISO-Ant0-5755



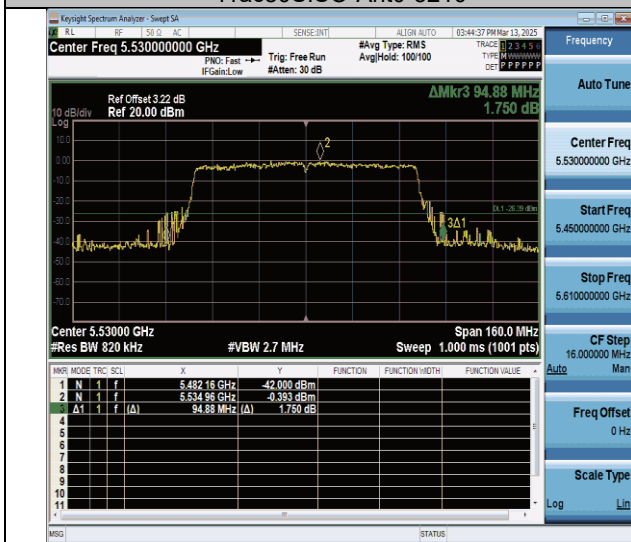
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11ac80SISO-Ant0-5210



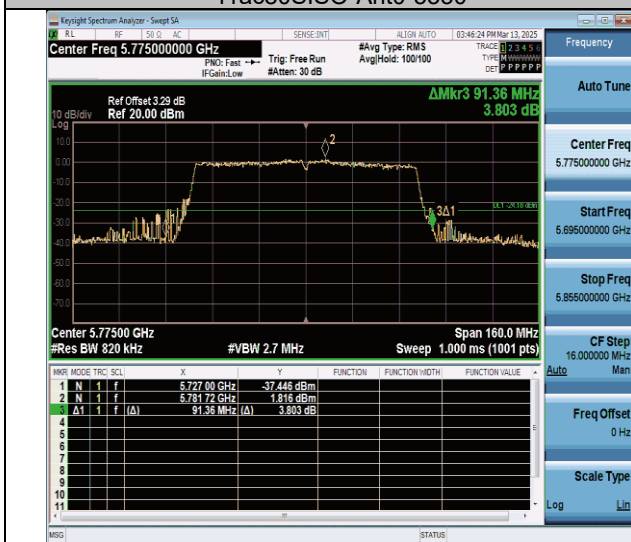
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11ac80SISO-Ant0-5530



11ac80SISO-Ant0-5610

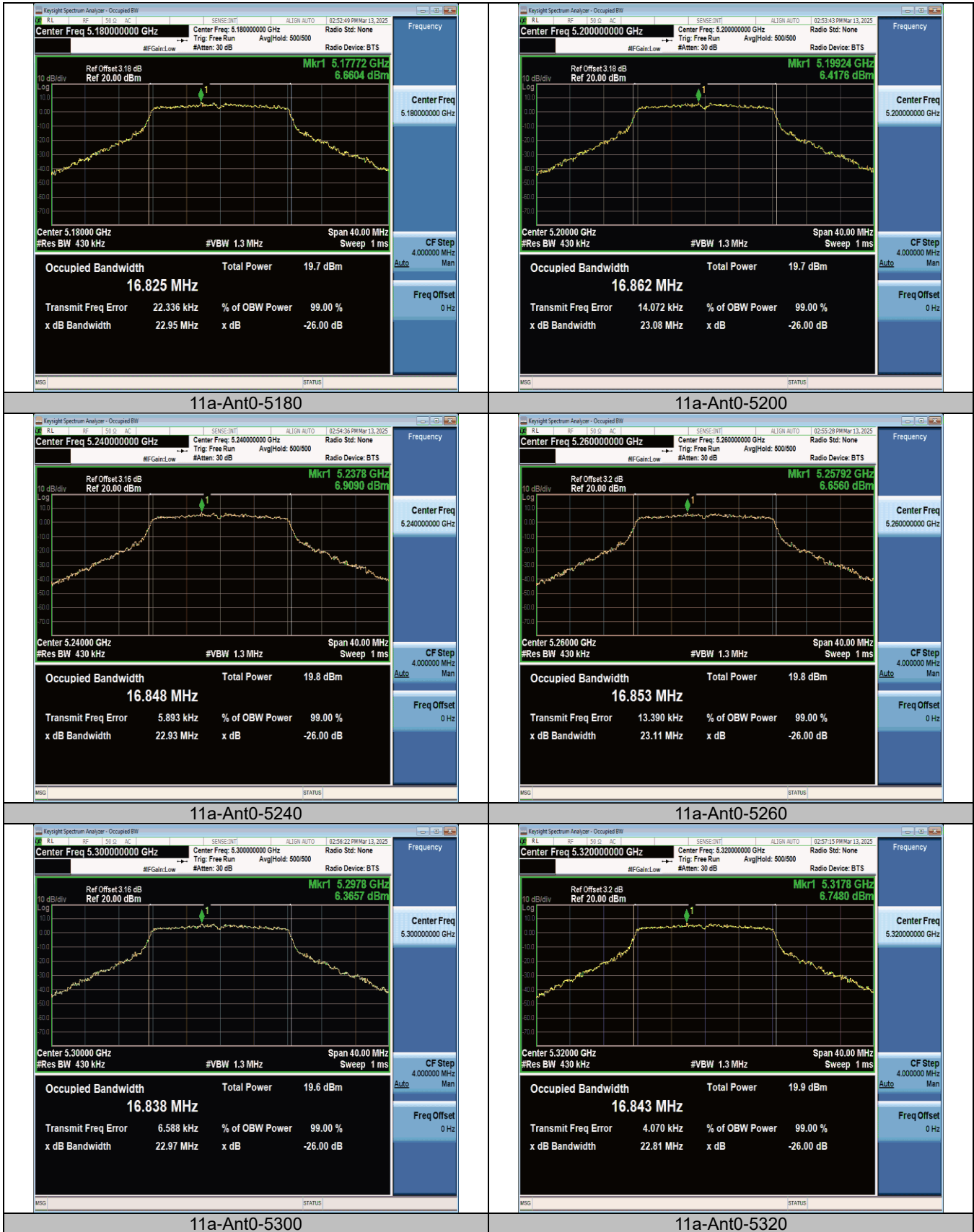


11ac80SISO-Ant0-5775

**Occupied channel bandwidth  
Test Result**

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11a	Ant0	5180	16.825	5171.6098	5188.4348	---	---
11a	Ant0	5200	16.862	5191.5831	5208.4451	---	---
11a	Ant0	5240	16.848	5231.5819	5248.4299	---	---
11a	Ant0	5260	16.853	5251.5869	5268.4399	---	---
11a	Ant0	5300	16.838	5291.5876	5308.4256	---	---
11a	Ant0	5320	16.843	5311.5826	5328.4256	---	---
11a	Ant0	5500	16.885	5491.5586	5508.4436	---	---
11a	Ant0	5580	16.850	5571.5859	5588.4359	---	---
11a	Ant0	5700	16.857	5691.5662	5708.4232	---	---
11a	Ant0	5745	16.840	5736.5477	5753.3877	---	---
11a	Ant0	5785	16.817	5776.5809	5793.3979	---	---
11a	Ant0	5825	16.847	5816.5929	5833.4399	---	---
11n20SISO	Ant0	5180	17.987	5171.0492	5189.0362	---	---
11n20SISO	Ant0	5200	18.037	5191.0127	5209.0497	---	---
11n20SISO	Ant0	5240	18.021	5231.0288	5249.0498	---	---
11n20SISO	Ant0	5260	18.000	5251.0219	5269.0219	---	---
11n20SISO	Ant0	5300	18.074	5290.9942	5309.0682	---	---
11n20SISO	Ant0	5320	18.027	5311.0250	5329.0520	---	---
11n20SISO	Ant0	5500	18.032	5491.0140	5509.0460	---	---
11n20SISO	Ant0	5580	18.041	5571.0224	5589.0634	---	---
11n20SISO	Ant0	5700	18.006	5691.0086	5709.0146	---	---
11n20SISO	Ant0	5745	18.029	5735.9783	5754.0073	---	---
11n20SISO	Ant0	5785	18.017	5775.9942	5794.0112	---	---
11n20SISO	Ant0	5825	18.020	5815.9986	5834.0186	---	---
11n40SISO	Ant0	5190	36.400	5171.8901	5208.2901	---	---
11n40SISO	Ant0	5230	36.403	5211.8960	5248.2990	---	---
11n40SISO	Ant0	5270	36.378	5251.8613	5288.2393	---	---
11n40SISO	Ant0	5310	36.419	5291.8809	5328.2999	---	---
11n40SISO	Ant0	5510	36.424	5491.8749	5528.2989	---	---
11n40SISO	Ant0	5590	36.392	5571.8798	5608.2718	---	---
11n40SISO	Ant0	5670	36.379	5651.8798	5688.2588	---	---
11n40SISO	Ant0	5755	36.467	5736.7859	5773.2529	---	---
11n40SISO	Ant0	5795	36.437	5776.7849	5813.2219	---	---
11ac20SISO	Ant0	5180	18.023	5171.0464	5189.0694	---	---
11ac20SISO	Ant0	5200	18.015	5191.0133	5209.0283	---	---
11ac20SISO	Ant0	5240	18.036	5231.0201	5249.0561	---	---
11ac20SISO	Ant0	5260	18.031	5251.0039	5269.0349	---	---
11ac20SISO	Ant0	5300	18.049	5291.0066	5309.0556	---	---
11ac20SISO	Ant0	5320	17.978	5311.0375	5329.0155	---	---
11ac20SISO	Ant0	5500	18.025	5491.0216	5509.0466	---	---
11ac20SISO	Ant0	5580	18.009	5571.0397	5589.0487	---	---
11ac20SISO	Ant0	5700	18.041	5690.9738	5709.0148	---	---
11ac20SISO	Ant0	5745	18.017	5735.9721	5753.9891	---	---
11ac20SISO	Ant0	5785	17.983	5776.0112	5793.9942	---	---
11ac20SISO	Ant0	5825	18.022	5815.9888	5834.0108	---	---
11ac40SISO	Ant0	5190	36.360	5171.8810	5208.2410	---	---
11ac40SISO	Ant0	5230	36.344	5211.9043	5248.2483	---	---
11ac40SISO	Ant0	5270	36.379	5251.8292	5288.2082	---	---
11ac40SISO	Ant0	5310	36.365	5291.8702	5328.2352	---	---
11ac40SISO	Ant0	5510	36.381	5491.8901	5528.2711	---	---
11ac40SISO	Ant0	5590	36.345	5571.8868	5608.2318	---	---
11ac40SISO	Ant0	5670	36.420	5651.8378	5688.2578	---	---
11ac40SISO	Ant0	5755	36.358	5736.8383	5773.1963	---	---
11ac40SISO	Ant0	5795	36.349	5776.8390	5813.1880	---	---
11ac80SISO	Ant0	5210	75.917	5172.2068	5248.1238	---	---
11ac80SISO	Ant0	5290	75.987	5251.9995	5327.9865	---	---
11ac80SISO	Ant0	5530	75.876	5492.1794	5568.0554	---	---
11ac80SISO	Ant0	5610	75.895	5572.0913	5647.9863	---	---
11ac80SISO	Ant0	5775	75.916	5736.8774	5812.7934	---	---

## Test Graphs

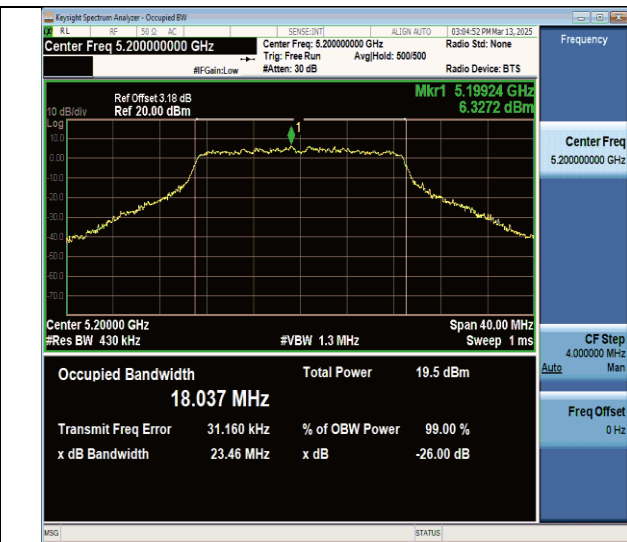








11n20SISO-Ant0-5180



11n20SISO-Ant0-5200



11n20SISO-Ant0-5240



11n20SISO-Ant0-5260



11n20SISO-Ant0-5300



11n20SISO-Ant0-5320



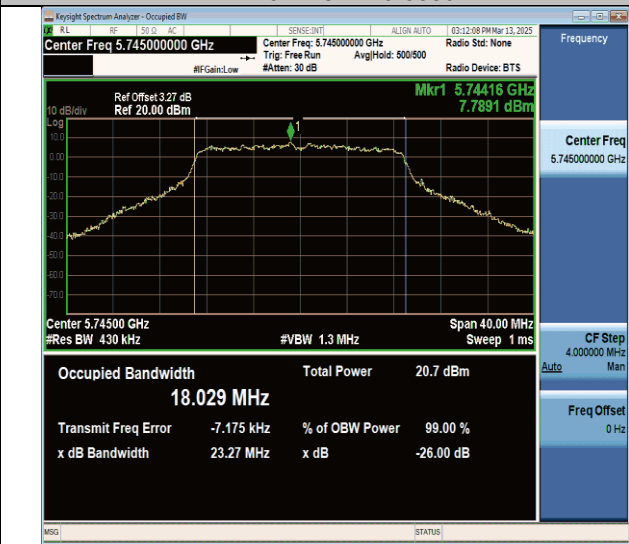
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11n20SISO-Ant0-5700



11n20SISO-Ant0-5745



11n20SISO-Ant0-5785



11n20SISO-Ant0-5825



11n40SISO-Ant0-5190



11n40SISO-Ant0-5230



11n40SISO-Ant0-5270



11n40SISO-Ant0-5310

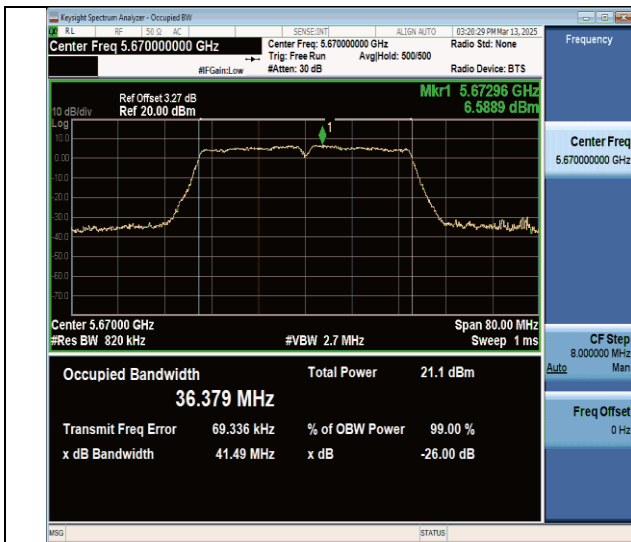


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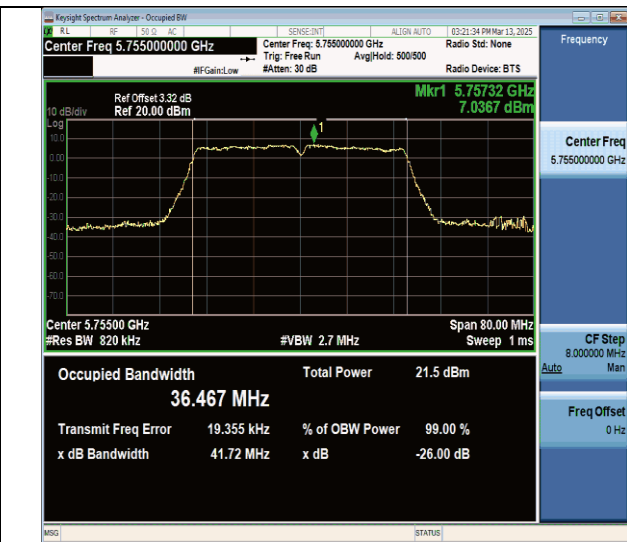


11n40SISO-Ant0-5590





11n40SISO-Ant0-5670



11n40SISO-Ant0-5755



11n40SISO-Ant0-5795



11ac20SISO-Ant0-5180



11ac20SISO-Ant0-5200



11ac20SISO-Ant0-5240



11ac20SISO-Ant0-5260



11ac20SISO-Ant0-5300



11ac20SISO-Ant0-5320



11ac20SISO-Ant0-5500



11ac20SISO-Ant0-5580



11ac20SISO-Ant0-5700



11ac20SISO-Ant0-5745



11ac20SISO-Ant0-5785



11ac20SISO-Ant0-5825



11ac40SISO-Ant0-5190



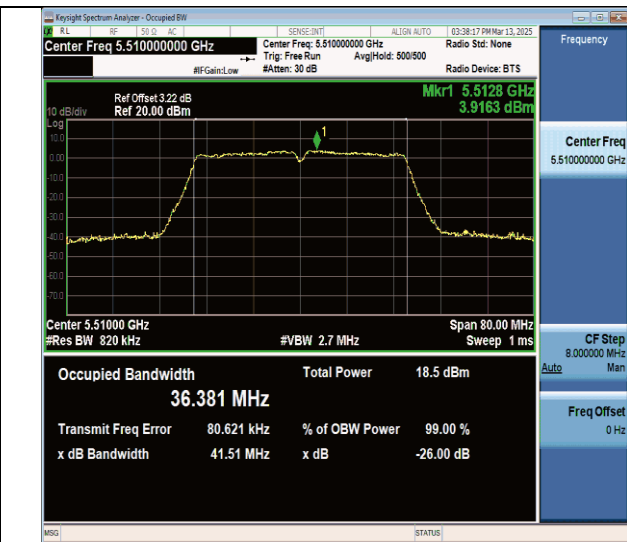
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11ac40SISO-Ant0-5310



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11ac40SISO-Ant0-5670



11ac40SISO-Ant0-5755



11ac40SISO-Ant0-5795



11ac80SISO-Ant0-5210



11ac80SISO-Ant0-5290



11ac80SISO-Ant0-5530



11ac80SISO-Ant0-5610



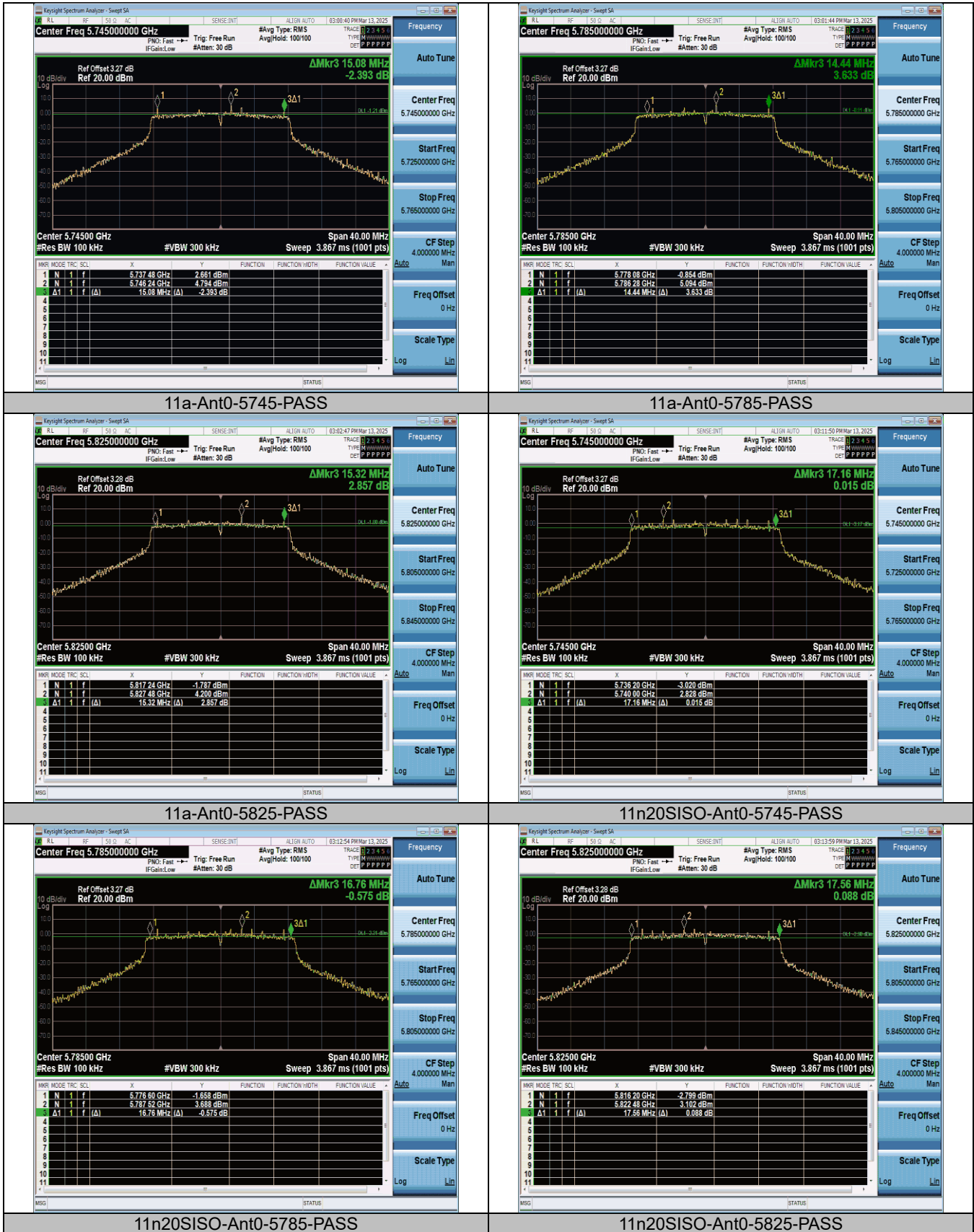
11ac80SISO-Ant0-5775

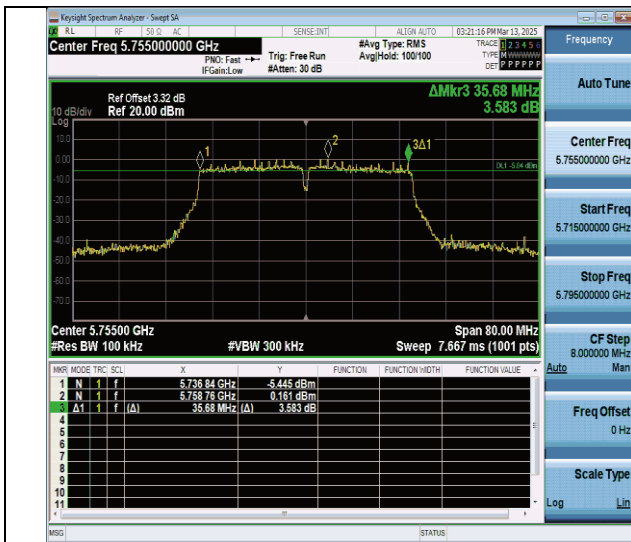
**Min emission bandwidth  
Test Result B4**

TestMode	Antenna	Frequency[MHz]	6dB EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11a	Ant0	5745	15.080	5737.480	5752.560	0.5	PASS
11a	Ant0	5785	14.440	5778.080	5792.520	0.5	PASS
11a	Ant0	5825	15.320	5817.240	5832.560	0.5	PASS
11n20SISO	Ant0	5745	17.160	5736.200	5753.360	0.5	PASS
11n20SISO	Ant0	5785	16.760	5776.600	5793.360	0.5	PASS
11n20SISO	Ant0	5825	17.560	5816.200	5833.760	0.5	PASS
11n40SISO	Ant0	5755	35.680	5736.840	5772.520	0.5	PASS
11n40SISO	Ant0	5795	35.040	5777.480	5812.520	0.5	PASS
11ac20SISO	Ant0	5745	15.440	5737.120	5752.560	0.5	PASS
11ac20SISO	Ant0	5785	13.800	5778.720	5792.520	0.5	PASS
11ac20SISO	Ant0	5825	15.640	5817.480	5833.120	0.5	PASS
11ac40SISO	Ant0	5755	35.680	5736.840	5772.520	0.5	PASS
11ac40SISO	Ant0	5795	35.120	5777.400	5812.520	0.5	PASS
11ac80SISO	Ant0	5775	75.360	5737.240	5812.600	0.5	PASS



## Test Graphs B4





11n40SISO-Ant0-5755-PASS



11n40SISO-Ant0-5795-PASS



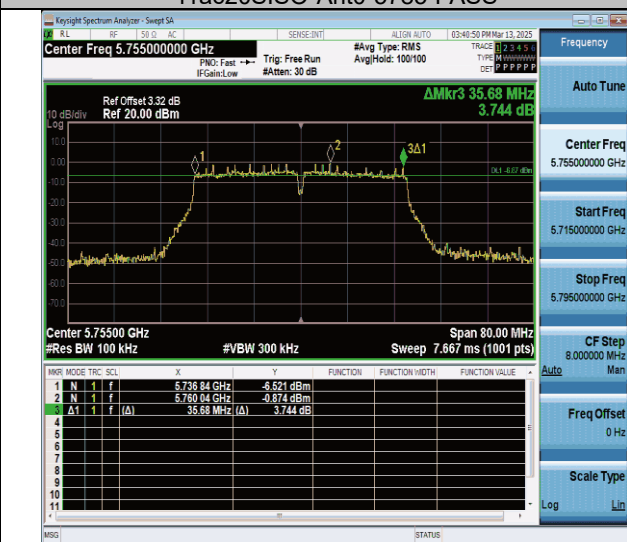
11ac20SISO-Ant0-5745-PASS



11ac20SISO-Ant0-5785-PASS

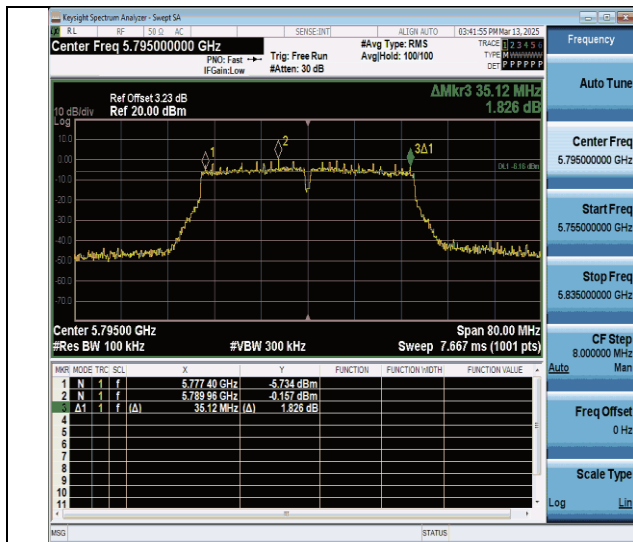


11ac20SISO-Ant0-5825-PASS



11ac40SISO-Ant0-5755-PASS





11ac40SISO-Ant0-5795-PASS



11ac80SISO-Ant0-5775-PASS

**Duty Cycle  
Test Result**

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11a	Ant0	5180	2.07	2.10	98.57
11a	Ant0	5200	2.06	2.10	98.10
11a	Ant0	5240	2.07	2.10	98.57
11a	Ant0	5260	2.07	2.10	98.57
11a	Ant0	5300	2.06	2.10	98.10
11a	Ant0	5320	2.07	2.10	98.57
11a	Ant0	5500	2.06	2.10	98.10
11a	Ant0	5580	2.06	2.10	98.10
11a	Ant0	5700	2.07	2.10	98.57
11a	Ant0	5745	2.06	2.10	98.10
11a	Ant0	5785	2.07	2.10	98.57
11a	Ant0	5825	2.06	2.10	98.10
11n20SISO	Ant0	5180	1.93	1.96	98.47
11n20SISO	Ant0	5200	1.92	1.96	97.96
11n20SISO	Ant0	5240	1.92	1.96	97.96
11n20SISO	Ant0	5260	1.92	1.96	97.96
11n20SISO	Ant0	5300	1.92	1.96	97.96
11n20SISO	Ant0	5320	1.93	1.97	97.97
11n20SISO	Ant0	5500	1.93	1.97	97.97
11n20SISO	Ant0	5580	1.93	1.96	98.47
11n20SISO	Ant0	5700	1.92	1.96	97.96
11n20SISO	Ant0	5745	1.92	1.96	97.96
11n20SISO	Ant0	5785	1.92	1.96	97.96
11n20SISO	Ant0	5825	1.93	1.96	98.47
11n40SISO	Ant0	5190	0.94	0.98	95.92
11n40SISO	Ant0	5230	0.95	0.99	95.96
11n40SISO	Ant0	5270	0.95	0.98	96.94
11n40SISO	Ant0	5310	0.94	0.98	95.92
11n40SISO	Ant0	5510	0.95	0.98	96.94
11n40SISO	Ant0	5590	0.95	0.98	96.94
11n40SISO	Ant0	5670	0.95	0.99	95.96
11n40SISO	Ant0	5755	0.94	0.98	95.92
11n40SISO	Ant0	5795	0.95	0.99	95.96
11ac20SISO	Ant0	5180	1.93	1.96	98.47
11ac20SISO	Ant0	5200	1.93	1.97	97.97
11ac20SISO	Ant0	5240	1.94	1.97	98.48
11ac20SISO	Ant0	5260	1.94	1.97	98.48
11ac20SISO	Ant0	5300	1.93	1.96	98.47
11ac20SISO	Ant0	5320	1.93	1.97	97.97
11ac20SISO	Ant0	5500	1.93	1.97	97.97
11ac20SISO	Ant0	5580	1.93	1.97	97.97
11ac20SISO	Ant0	5700	1.93	1.97	97.97
11ac20SISO	Ant0	5745	1.93	1.97	97.97
11ac20SISO	Ant0	5785	1.93	1.97	97.97
11ac20SISO	Ant0	5825	1.94	1.97	98.48
11ac40SISO	Ant0	5190	0.95	0.99	95.96
11ac40SISO	Ant0	5230	0.95	0.99	95.96
11ac40SISO	Ant0	5270	0.96	0.99	96.97
11ac40SISO	Ant0	5310	0.95	0.98	96.94
11ac40SISO	Ant0	5510	0.95	0.98	96.94
11ac40SISO	Ant0	5590	0.95	0.98	96.94
11ac40SISO	Ant0	5670	0.96	0.99	96.97
11ac40SISO	Ant0	5755	0.95	0.98	96.94
11ac40SISO	Ant0	5795	0.95	0.99	95.96
11ac80SISO	Ant0	5210	0.47	0.50	94.00
11ac80SISO	Ant0	5290	0.46	0.50	92.00
11ac80SISO	Ant0	5530	0.47	0.50	94.00
11ac80SISO	Ant0	5610	0.47	0.50	94.00
11ac80SISO	Ant0	5775	0.46	0.50	92.00