

MEASUREMENT REPORT
FCC PART 15.247 / ISED RSS-247 WLAN 802.11b/g/n/ax/be

Applicant Name:

Apple Inc.
One Apple Park Way
Cupertino, CA 95014
United States

Date of Testing:

09/15/2025 - 11/13/2025

Test Report Issue Date:

1/15/2026

Test Site/Location:

Element Materials Technology, Morgan Hill, CA, USA

Test Report Serial No.:

1C2509100079-05-R3.BCG

FCC ID:

BCGA3459

IC:

579C-A3459

APPLICANT:

Apple Inc.

Application Type:

Certification

Model/HVIN:

A3459

EUT Type:

Tablet Device

Frequency Range:

2412 – 2472MHz

FCC Classification:

Digital Transmission System (DTS)

FCC Rule Part(s):

Part 15 Subpart C (15.247)

ISED Specification:

RSS-247 Issue 4

Test Procedure(s):

ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to
C63.10a:2024, KDB 558074 D01 v05r02,
KDB 662911 D01 v02r01

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.10:2020 + COR. 1:2023 + C63.10A:2024 + ERRATA TO C63.10A:2024 and KDB 558074 D01 v05r02. Test results reported herein relate only to the item(s) tested.

This revised Test Report (S/N: 1C2509100079-05-R3.BCG) supersedes and replaces the previously issued test report on the same subject device for the same type of testing as indicated. Please discard or destroy the previously issued test report(s) and dispose accordingly.

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

RJ Ortanez

Executive Vice President



FCC ID: BCGA3459 IC: 579C-A3459	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2509100079-05-R3.BCG	Test Dates: 09/15/2025 - 11/13/2025	EUT Type: Tablet Device	Page 1 of 179

V 11.0 5/2025

Revision Summary

Revision	Description	Issued Date	Revised By
-	Initial Release	11/20/2025	WKR0000016833
R1	Addressed TCB comments in section 2.0, 6.0, 7.1, 7.3, 7.4, 7.5, and 7.7	11/24/2025	WKR0000016833
R2	Addressed TCB comments for editorial and formatting revisions in Sections 7.2–7.8.	11/25/2025	WKR007077
R3	Addressed Client's comment for Firmware	12/24/2025	WKR017014

FCC ID: BCGA3459 IC: 579C-A3459		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100079-05-R3.BCG	Test Dates: 09/15/2025 - 11/13/2025	EUT Type: Tablet Device	Page 2 of 179

V 11.0 5/2025

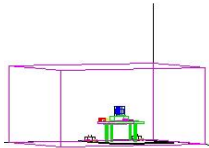
T A B L E O F C O N T E N T S

1.0	INTRODUCTION.....	5
1.1	Scope	5
1.2	Element Materials Technology Test Location.....	5
1.3	Test Facility / Accreditations	5
2.0	PRODUCT INFORMATION	6
2.1	Equipment Description	6
2.2	Device Capabilities	6
2.3	Antenna Description	9
2.4	Test Support Equipment.....	9
2.5	Test Configuration	10
2.6	Software and Firmware	10
2.7	EMI Suppression Device(s)/Modifications	10
3.0	DESCRIPTION OF TESTS	11
3.1	Evaluation Procedure	11
3.2	AC Line Conducted Emissions	11
3.3	Radiated Emissions.....	12
3.4	Environmental Conditions.....	12
4.0	ANTENNA REQUIREMENTS	13
5.0	MEASUREMENT UNCERTAINTY.....	14
6.0	TEST EQUIPMENT CALIBRATION DATA	15
7.0	TEST RESULTS.....	16
7.1	Summary	16
7.2	99% OBW Measurement.....	17
7.3	6dB BW Measurement	17
7.4	Output Power Measurement.....	25
7.5	Power Spectral Density	40
7.6	Conducted Authorized Band Edge	53
7.7	Conducted Spurious Emissions.....	99
7.8	Radiated Spurious Emissions – Above 1 GHz	107
7.9	Radiated Spurious Emissions – Below 1GHz.....	107
7.10	AC Line-Conducted Emissions Measurement	168
8.0	CONCLUSION	173

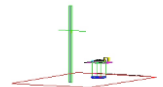
FCC ID: BCGA3459 IC: 579C-A3459		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100079-05-R3.BCG	Test Dates: 09/15/2025 - 11/13/2025	EUT Type: Tablet Device	Page 3 of 179

V 11.0 5/2025

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MEASUREMENT REPORT



Mode	Tx Frequency (MHz)	Antenna WF8		Antenna WF7b		CDD	
		Max. Power (mW)	Max. Power (dBm)	Max. Power (mW)	Max. Power (dBm)	Max. Power (mW)	Max. Power (dBm)
802.11b	2412 - 2472	158.125	21.99	155.597	21.92	305.492	24.85
802.11g	2412 - 2472	147.231	21.68	157.761	21.98	280.543	24.48
802.11n	2412 - 2472	147.911	21.70	158.125	21.99	276.058	24.41
802.11be (SU)	2412 - 2472	143.549	21.57	153.109	21.85	274.157	24.38

EUT Overview

FCC ID: BCGA3459 IC: 579C-A3459	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2509100079-05-R3.BCG	Test Dates: 09/15/2025 - 11/13/2025	EUT Type: Tablet Device	Page 4 of 179

V 11.0 5/2025

1.0 INTRODUCTION

1.1 Scope

Measurement and determination of electromagnetic emissions (EMC) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission and the Innovation, Science and Economic Development Canada.

1.2 Element Materials Technology Test Location

These measurement tests were conducted at the Element Materials Technology facility located at 18855 Adams Court, Morgan Hill, CA 95037. The measurement facility is compliant with the test site requirements specified in ANSI C63.4-2014 and KDB 414788 D01 v01r01.

1.3 Test Facility / Accreditations

Measurements were performed at Element Materials Technology located in Morgan Hill, CA 95037, U.S.A.

- Element Materials Technology is an ISO 17025-2017 accredited test facility under the American Association for Laboratory Accreditation (A2LA) with Certificate number 2041.02 for Specific Absorption Rate (SAR), Hearing Aid Compatibility (HAC) testing, where applicable, and Electromagnetic Compatibility (EMC) testing for FCC and Innovation, Science, and Economic Development Canada rules.
- Element Washington DC LLC TCB is a Telecommunication Certification Body (TCB) accredited to ISO/IEC 17065-2012 by A2LA (Certificate number 2041.03) in all scopes of FCC Rules and ISED Standards (RSS).
- Element Materials Technology facility is a registered (22831) test laboratory with the site description on file with ISED.
- Element Washington DC LLC is a Recognized U.S. Certification Assessment Body (CAB # US0110) for ISED Canada as designated by NIST under the U.S. and Canada Mutual Recognition Agreements (MRAs).

FCC ID: BCGA3459 IC: 579C-A3459	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2509100079-05-R3.BCG	Test Dates: 09/15/2025 - 11/13/2025	EUT Type: Tablet Device	Page 5 of 179

V 11.0 5/2025

2.0 PRODUCT INFORMATION

2.1 Equipment Description

The Equipment Under Test (EUT) is the **Apple Tablet Device FCC ID: BCGA3459, IC: 579C-A3459**. The test data contained in this report pertains only to the emissions due to the EUT's WLAN (DTS) transmitter.

Test Device Serial No.: FVM207VG3D, CN2539MD94, DLXHKP0001400013YL, DLXHKP0001500013YL

2.2 Device Capabilities

This device contains the following capabilities:

802.11b/g/n/ax/be WLAN, 802.11a/n/ac/ax/be UNII (5GHz and 6GHz), 802.15.4, Bluetooth (1x, EDR, LE, HDR, HDT), Narrowband (NB) UNII (5GHz and 6GHz), WPT

This device supports BT Beamforming.

This device supports channel puncturing and channel bandwidth reduction.

Ch.	Frequency (MHz)	Ch.	Frequency (MHz)
1	2412	8	2447
2	2417	9	2452
3	2422	10	2457
4	2427	11	2462
5	2432	12	2467
6	2437	13	2472
7	2442		

Table 2-1. 802.11b/g/n/ax/be Frequency/Channel Operations

FCC ID: BCGA3459 IC: 579C-A3459		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100079-05-R3.BCG	Test Dates: 09/15/2025 - 11/13/2025	EUT Type: Tablet Device	Page 6 of 179

V 11.0 5/2025

Note: The maximum achievable duty cycles for all modes were determined based on measurements performed on a spectrum analyzer in zero-span mode with RBW = 8MHz, VBW = 50MHz, and detector = peak per the guidance of Section 6.0 b) of KDB 558074 D01 v05r02 and ANSI C63.10:2020 + COR. 1:2023 + C63.10A:2024 + ERRATA TO C63.10A:2024. The RBW and VBW were both greater than 50/T, where T is the minimum transmission duration, and the number of sweep points across T was greater than 100. The duty cycles are as follows:

802.11 Mode/Band	Duty Cycle [%]					
	Antenna WF8		Antenna WF7b		CDD/SDM	
	Duty Cycle [%]	DCCF [dB]	Duty Cycle [%]	DCCF [dB]	Duty Cycle [%]	DCCF [dB]
b	98.38	0.07	98.20	0.08	98.24	0.08
g (Low Data Rate)	98.99	0.04	98.49	0.07	100.00	0.00
g (Mid Data Rate)	100.00	0.00	100.00	0.00	98.63	0.06
g (High Data Rate)	100.00	0.00	98.92	0.05	97.88	0.09
n (Low Data Rate)	100.00	0.00	98.38	0.07	100.00	0.00
n (Mid Data Rate)	98.90	0.05	98.97	0.05	100.00	0.00
n (High Data Rate)	98.38	0.07	98.61	0.06	98.86	0.05
be(SU) (Low Data Rate)	98.88	0.05	100.00	0.00	98.67	0.06
be(SU) (Mid Data Rate)	98.83	0.05	98.51	0.07	98.76	0.05
be(SU) (High Data Rate)	98.67	0.06	98.83	0.05	100.00	0.00

Table 2-2. Measured Duty Cycles

CDD/SDM = Antenna WF8 + Antenna WF7b

The device employs CDD technology. Below are the possible configurations.

WiFi Configurations		SISO		SDM		CDD	
		Antenna WF8	Antenna WF7b	Antenna WF8	Antenna WF7b	Antenna WF8	Antenna WF7b
2.4GHz	11b	✓	✓	✗	✗	✓	✓
	11g	✓	✓	✗	✗	✓	✓
	11n	✓	✓	✓	✓	✓	✓
	11ax	✓	✓	✓	✓	✓	✓
	11be	✓	✓	✓	✓	✓	✓

Table 2-3. Wi-Fi Configurations

✓ = Support ; ✗ = NOT Support

SISO = Single Input Single Output

SDM = Spatial Diversity Multiplexing – CDD function

CDD = Cyclic Delay Diversity - 2Tx Function

FCC ID: BCGA3459 IC: 579C-A3459	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2509100079-05-R3.BCG	Test Dates: 09/15/2025 - 11/13/2025	EUT Type: Tablet Device	Page 7 of 179

V 11.0 5/2025

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The device supports the following data rates (shown in Mbps):

802.11b	802.11g	MCS Index			Spatial Stream	802.11n		OFDM (802.11ax/be)			
20MHz						20MHz		20MHz			
		HT	HE	EHT		0.8μs GI	0.4μs GI	0.8μs GI	1.6μs GI	3.2μs GI	
1	6	0	0	0	1	6.5	7.2	8.6	8.1	7.3	Low rate
2	9	1	1	1	1	13	14.4	17.2	16.3	14.6	
5.5	12	2	2	2	1	19.5	21.7	25.8	24.4	21.9	
11	18	3	3	3	1	26	28.9	34.4	32.5	29.3	Mid rate
-	24	4	4	4	1	39	43.3	51.6	48.8	43.9	
-	36	5	5	5	1	52	57.8	68.8	65	58.5	
-	48	6	6	6	1	58.5	65	77.4	73.1	65.8	High Rate
-	54	7	7	7	1	65	72.2	86	81.3	73.1	
-	-	-	8	8	1	78	86.7	103.2	97.5	87.8	
-	-	-	9	9	1	-	-	114.7	108.3	97.5	
1	6	8	0	0	2	13	14.4	17.2	16.3	14.6	Low rate
2	9	9	1	1	2	26	28.9	34.4	32.5	29.3	
5.5	12	10	2	2	2	39	43.3	51.6	48.8	43.9	
11	18	11	3	3	2	52	57.8	68.8	65	58.5	Mid rate
-	24	12	4	4	2	78	86.7	103.2	97.5	87.8	
-	36	13	5	5	2	104	115.6	137.6	130	117	
-	48	14	6	6	2	117	130	154.9	146.3	131.6	High Rate
-	54	15	7	7	2	130	144.4	172.1	162.5	146.3	
-	-	-	8	8	2	156	173.3	206.5	195	175.5	
-	-	-	9	9	2	-	-	229.4	216.7	195	

Table 2-4. Supported Data Rates

This device supports simultaneous transmission operations, which allows multiple transmitters to transmit simultaneously on the same antenna. The table below shows all configurations possible.

Antenna	Simultaneous Tx Config	Bluetooth 2.4GHz	Thread	WLAN	NB UNII	WIFI 5GHz	WIFI 6GHz
		BDR, EDR, LE HDR, HDT	802.15.4	802.11 b/g/n/ax/be	BDR, EDR, LE HDR, HDT	802.11 a/n/ac/ax/be	802.11 a/ax/be
Ant WF8	Config 1	✓	✗	✗	✗	✓	✗
Ant WF8	Config 2	✓	✗	✗	✗	✗	✓
Ant WF8	Config 3	✗	✓	✗	✗	✓	✗
Ant WF8	Config 4	✗	✓	✗	✗	✗	✓
Ant WF8	Config 5	✗	✗	✓	✓	✗	✗
Ant WF8	Config 6	✗	✗	✓	✗	✓	✗
Ant WF8	Config 7	✗	✗	✓	✗	✗	✓

Table 2-5. Simultaneous Transmission Configurations

✓ = Support; ✗ = Not Support

Note:

All the above simultaneous transmission configurations have been tested and the worst-case configuration was found to be Config 1 and reported in RF Bluetooth and RF UNII 5GHz OFDM test reports.

FCC ID: BCGA3459 IC: 579C-A3459	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2509100079-05-R3.BCG	Test Dates: 09/15/2025 - 11/13/2025	EUT Type: Tablet Device	Page 8 of 179

2.3 Antenna Description

Following antenna gains provided by manufacturer were used for the testing.

Frequency [GHz]	Antenna Gain (dBi)	
	Antenna WF8	Antenna WF7b
2.4	1.5	-0.3

Table 2-6. Highest Antenna Gain

2.4 Test Support Equipment

1	Apple MacBook Pro w/AC/DC Adapter	Model: Model:	A2141 A2166	S/N: S/N:	C02H604EQ05D C4H042705ZNPM0WA6
2	Apple USB-C Cable	Model:	Spartan	S/N:	GXXK1336018XKTR024
3	USB-C Cable w/ AC Adapter	Model: Model:	A2795 A2305	S/N: S/N:	DWH80115BK826GV19 C4H95160004PF4F4V
4	Apple Pencil	Model:	A2538	S/N:	KJ26TCFXJW
5	DC Power Supply	Model:	KPS3010D	S/N:	N/A

Table 2-7. Test Support Equipment List

FCC ID: BCGA3459 IC: 579C-A3459	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2509100079-05-R3.BCG	Test Dates: 09/15/2025 - 11/13/2025	EUT Type: Tablet Device	Page 9 of 179

V 11.0 5/2025

2.5 Test Configuration

The EUT was tested per the guidance of ANSI C63.10:2020 + COR. 1:2023 + C63.10A:2024 + ERRATA TO C63.10A:2024 and KDB 558074 D01 v05r02. ANSI C63.10:2020 + COR. 1:2023 + C63.10A:2024 + ERRATA TO C63.10A:2024 was used to reference the appropriate EUT setup for radiated spurious emissions testing and AC line conducted testing. See Sections 3.2 for AC line conducted emissions test setups, Section 3.3 for radiated emissions test setups, and 7.2, 7.3, 7.4, 7.5, 7.6, and 7.7 for antenna port conducted emissions test setups.

There are two vendors of the WiFi/Bluetooth radio modules, variant 1 and variant 2. Both radio modules have the same mechanical outline, same on-board antenna matching circuit, identical antenna structure, and are built and tested to conform to the same specifications and to operate within the same tolerances. The worst case configuration was found between the two variants. The EUT was also investigated with and without charger.

For emissions from 1GHz – 18GHz, low, mid, and high channels were tested with highest power and worst case configuration. The emissions below 1GHz and above 18GHz were tested with the highest transmitting power and the worst case channel were reported.

The EUT was manipulated through three orthogonal planes of X-orientation (flatbed), Y-orientation (landscape), and Z-orientation (portrait) during the testing. Only the worst case emissions were reported in this test report.

For AC line conducted and radiated test below 1GHz, following configuration were investigated and EUT powered by AC/DC was the worst case.

- EUT powered by AC/DC adaptor via USB-C cable with wire charger
- EUT powered by host PC via USB-C cable with wire charger

802.11be-mode test data provided in this report covers 802.11ax as target powers are identical.

802.11n CDD mode test data provided in this report covers 802.11n SDM.

802.11be-SU HE20 2TX CDD mode test data provided in this report covers 802.11be-SU HE20 2TX SDM.

The data rates have been categorized into three groups: low, middle, and high data rates (see Table 2-4). All three groups have been investigated, and only the worst-case data rate has been reported.

For 802.11be-RU test results, see separate WLAN (OFDMA) report, 1C2509100079-06-R3.BCG

2.6 Software and Firmware

The test was conducted with firmware version 23D40 installed on the EUT.

2.7 EMI Suppression Device(s)/Modifications

No EMI suppression device(s) were added and/or no modifications were made during testing.

FCC ID: BCGA3459 IC: 579C-A3459	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2509100079-05-R3.BCG	Test Dates: 09/15/2025 - 11/13/2025	EUT Type: Tablet Device	Page 10 of 179

V 11.0 5/2025

3.0 DESCRIPTION OF TESTS

3.1 Evaluation Procedure

The measurement procedures described in the American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices (ANSI C63.10:2020 + COR. 1:2023 + C63.10A:2024 + ERRATA TO C63.10A:2024) and the guidance provided in KDB 558074 D01 v05r02 were used in the measurement of the EUT.

Deviation from measurement procedure.....None

3.2 AC Line Conducted Emissions

The line-conducted facility is located inside a 7m x 3.66m x 2.7m shielded enclosure. The shielded enclosure is manufactured by AP Americas. The shielding effectiveness of the shielded room is in accordance with MIL-Std-285 or NSA 65-6. A 1m x 1.5m wooden table 80cm high is placed 40cm away from the vertical wall and 80cm away from the sidewall of the shielded room. Two 10kHz-30MHz, 50Ω/50μH Line-Impedance Stabilization Networks (LISNs) are bonded to the shielded room floor. Power to the LISNs is filtered by external high-current high-insertion loss power line filters. The external power line filter is EPCOS 2X60A Power Line Filter (100dB Attenuation, 14kHz-18GHz) and the two EPCOs 2X48A filters (100dB Minimum Insertion Loss, 14kHz - 10GHz). These filters attenuate ambient signal noise from entering the measurement lines. These filters are also bonded to the shielded enclosure.

The EUT is powered from one LISN and the support equipment is powered from the second LISN. If the EUT is a DC-powered device, power will be derived from the source power supply it normally will be powered from and this supply line(s) will be connected to the second LISN. All interconnecting cables more than 1 meter were shortened to a 1 meter length by non-inductive bundling (serpentine fashion) and draped over the back edge of the test table. All cables were at least 40cm above the horizontal reference groundplane. Power cables for support equipment were routed down to the second LISN while ensuring that the cables were not draped over the second LISN.

Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The RF output of the LISN was connected to the spectrum analyzer and exploratory measurements were made to determine the frequencies producing the maximum emission from the EUT. The spectrum was scanned from 150kHz to 30MHz with a spectrum analyzer. The detector function was set to peak mode for exploratory measurements while the bandwidth of the analyzer was set to 10kHz. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Once the worst case emissions have been identified, the one EUT cable configuration/arrangement and mode of operation that produced these emissions is used for final measurements on the same test site. The analyzer is set to CISPR quasi-peak and average detectors with a 9kHz resolution bandwidth for final measurements.

Line conducted emissions test results are shown in Section 7.9. Automated test software was used to perform the AC line conducted emissions testing. Automated measurement software utilized is Rohde & Schwarz EMC32, Version 10.50.40.

FCC ID: BCGA3459 IC: 579C-A3459		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100079-05-R3.BCG	Test Dates: 09/15/2025 - 11/13/2025	EUT Type: Tablet Device	Page 11 of 179

V 11.0 5/2025

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3.3 Radiated Emissions

The radiated test facilities consisted of an indoor 3 meter semi-anechoic chamber used for final measurements and exploratory measurements, when necessary. The measurement area is contained within the semi-anechoic chamber which is shielded from any ambient interference. The test site inside the chamber is a 6m x 5.2m elliptical, obstruction-free area in accordance with Figure 5.7 of Clause 5 in ANSI C63.4-2014. Absorbers are arranged on the floor between the turn table and the antenna mast in such a way so as to maximize the reduction of reflections for measurements above 1GHz. An 80cm tall test table made of Styrodur is placed on top of the turn table. For measurements above 1GHz, an additional Styrodur pedestal is placed on top of the test table to bring the total table height to 1.5m.

Per KDB 414788 D01 v01r01, radiated emission test sites other than open-field test sites (e.g., shielded anechoic chambers), may be employed for emission measurements below 30MHz if characterized so that the measurements correspond to those obtained at an open-field test site. To determine test site equivalency, a reference sample transmitting at 149kHz was measured on an open field test site (asphalt with no ground plane) and then measured in the 3m semi-anechoic chamber. A calibrated 60cm loop antenna was rotated about its vertical axis while the reference device was rotated through the X, Y and Z axis in order to capture the worst case level. A maximum deviation of 2.77dB at 149kHz was measured when comparing the 3 meter semi-anechoic chamber to the open field site.

For all measurements, the spectrum was scanned through all EUT azimuths and from 1 to 4 meter receive antenna height using a broadband antenna from 30MHz up to the upper frequency shown in 15.33 depending on the highest frequency generated or used in the device or on which the device operates or tunes. For frequencies above 1GHz, linearly polarized double ridge horn antennas were used. For frequencies below 30MHz, a calibrated loop antenna was used. When exploratory measurements were necessary, they were performed at 1 meter test distance inside the semi-anechoic chamber using broadband antennas, broadband amplifiers, and spectrum analyzers to determine the frequencies and modes producing the maximum emissions. Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The test set-up was placed on top of the 1 x 1.5 meter table. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Appropriate precaution was taken to ensure that all emissions from the EUT were maximized and investigated. The system configuration, mode of operation, turntable azimuth, and receive antenna height was noted for each frequency found.

Final measurements were made in the semi-anechoic chamber using calibrated, linearly polarized broadband and horn antennas. The test setup was configured to the setup that produced the worst case emissions. The spectrum analyzer was set to investigate all frequencies required for testing to compare the highest radiated disturbances with respect to the specified limits. The turntable containing the EUT was rotated through 360 degrees and the height of the receive antenna was varied 1 to 4 meters and stopped at the azimuth and height producing the maximum emission. Each emission was maximized by changing the orientation of the EUT through three orthogonal planes and changing the polarity of the receive antenna, whichever produced the worst-case emissions.

3.4 Environmental Conditions

The temperature is controlled within range of 15°C to 35°C. The relative humidity is controlled within range of 10% to 75%. The atmospheric pressure is monitored within the range 86-106kPa (860-1060mbar).

FCC ID: BCGA3459 IC: 579C-A3459	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2509100079-05-R3.BCG	Test Dates: 09/15/2025 - 11/13/2025	EUT Type: Tablet Device	Page 12 of 179

V 11.0 5/2025

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4.0 ANTENNA REQUIREMENTS

Excerpt from §15.203 of the FCC Rules/Regulations:

“An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.”

- The antennas of the EUT are **permanently attached**.
- There are no provisions for connections to an external antenna.

Conclusion:

The EUT unit complies with the requirement of §15.203.

FCC ID: BCGA3459 IC: 579C-A3459		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100079-05-R3.BCG	Test Dates: 09/15/2025 - 11/13/2025	EUT Type: Tablet Device	Page 13 of 179

V 11.0 5/2025

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5.0 MEASUREMENT UNCERTAINTY

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.23-2012. All measurement uncertainty values are shown with a coverage factor of $k = 2$ to indicate a 95% level of confidence. The measurement uncertainty shown below meets or exceeds the U_{CISPR} measurement uncertainty values specified in CISPR 16-4-2 and, thus, can be compared directly to specified limits to determine compliance.

Contribution	Expanded Uncertainty ($\pm$ dB)
Conducted Bench Top Measurements	2.00
AC Line Conducted Disturbance	1.88
Radiated Disturbance (<30MHz)	4.24
Radiated Disturbance (30MHz - 1GHz)	4.96
Radiated Disturbance (1 - 18GHz)	5.18
Radiated Disturbance (>18GHz)	5.18

FCC ID: BCGA3459 IC: 579C-A3459		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100079-05-R3.BCG	Test Dates: 09/15/2025 - 11/13/2025	EUT Type: Tablet Device	Page 14 of 179

V 11.0 5/2025

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6.0 TEST EQUIPMENT CALIBRATION DATA

Test Equipment Calibration is traceable to the National Institute of Standards and Technology (NIST). Measurements antennas used during testing were calibrated in accordance with the requirements of ANSI C63.5-2017.

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Agilent	N9020A	MXA Signal Analyzer	7/7/2025	Biennial	7/7/2027	MY56470202
Anritsu	ML2496A	Power Meter	2/10/2025	Annual	2/10/2026	1306009
Anritsu	MA2411B	Pulse Power Sensor	2/10/2025	Annual	2/10/2026	1315051
Anritsu	MA2411B	Pulse Power Sensor	2/10/2025	Annual	2/10/2026	1339027
ATM	180-442-KF	20dB Nominal Gain Horn Antenna	3/24/2025	Annual	3/24/2026	T058601-02
ETS-Lindgren	3117	Double Ridged Guide Horn (1-18 GHz)	4/16/2025	Annual	4/16/2026	218555
Fairview Microwave/MCL	FMCA1975-36/BW-K10-2W44+	30MHz-40GHz RF Cable/Attenuator *	6/10/2025	Annual	6/10/2026	-
Keysight Technology	N9040B	UXA Signal Analyzer	6/9/2025	Annual	6/9/2026	MY57212015
Rohde & Schwarz	TS-PR18	Pre-Amplifier (1GHz - 18GHz)	8/6/2025	Annual	8/6/2026	101639
Rohde & Schwarz	FSW43	Spectrum Analyzer 2Hz to 43GHz	8/5/2025	Annual	8/5/2026	104093
Rohde & Schwarz	ESW44	EMI Test Receiver 2Hz to 44 GHz	5/13/2025	Annual	5/13/2026	101867
Rohde & Schwarz	TS-PR8	Pre-Amplifier (30MHz - 8GHz)	11/15/2024	Annual	11/15/2025	102326
Rohde & Schwarz	TS-PR8	Pre-Amplifier (30MHz - 8GHz)	10/14/2025	Annual	10/14/2026	102328
Rohde & Schwarz	TS-PR1840	Pre-Amplifier (18GHz - 40GHz)	6/3/2025	Annual	6/3/2026	100052
Rohde & Schwarz	HFH2-Z2	Loop Antenna	5/12/2025	Annual	5/12/2026	100546
Rohde & Schwarz	ENV216	Two-Line V-Network	4/24/2025	Annual	4/24/2026	101364
Schwarzbeck	VULB 9162	Bilog Antenna (30MHz - 6GHz)	7/17/2025	Annual	7/17/2026	00302

Table 6-1. Test Equipment List

Note:

- For equipment listed above that has a calibration date or calibration due date that falls within the test date range, care was taken to ensure that this equipment was used after the calibration date and before the calibration due date.
- * denotes passive equipment that have been internally verified/calibrated.

FCC ID: BCGA3459 IC: 579C-A3459		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100079-05-R3.BCG	Test Dates: 09/15/2025 - 11/13/2025	EUT Type: Tablet Device	Page 15 of 179

V 11.0 5/2025

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7.0 TEST RESULTS

7.1 Summary

Company Name: Apple Inc.
 FCC ID: BCGA3459
 IC: 579C-A3459
 FCC Classification: Digital Transmission System (DTS)

FCC Part Section(s)	RSS Section(s)	Test Description	Test Limit	Test Condition	Test Result	Reference
15.247(a)(2)	RSS-247 [6.3.1(a)]	6dB Bandwidth	> 500kHz	CONDUCTED	PASS	Section 7.3
2.1049	RSS-Gen [6.7]	Occupied Bandwidth	N/A		N/A	Section 7.2
15.247(b)(3)	RSS-247 [6.3.2]	Transmitter Output Power	< 1 Watt		PASS	Section 7.4
15.247(e)	RSS-247 [6.3.1(b)]	Transmitter Power Spectral Density	< 8dBm / 3kHz Band		PASS	Section 7.5
15.247(d)	RSS-247 [6.6]	Band Edge / Out-of-Band Emissions	≥ 20dBc		PASS	Section 7.6, 7.7
15.205 15.209	RSS-Gen [8.9]	General Field Strength Limits (Restricted Bands and Radiated Emission Limits)	Emissions in restricted bands must meet the radiated limits detailed in 15.209 (RSS-Gen [8.9])	RADIATED	PASS	Sections 7.8, 7.9
15.207	RSS-Gen [8.8]	AC Conducted Emissions 150kHz – 30MHz	< FCC 15.207 limits (RSS-Gen [8.8])	AC LINE CONDUCTED	PASS	Section 7.10

Table 7-1. Summary of Test Results

Notes:

1. All modes of operation and data rates were investigated. The test results shown in the following sections represent the worst case emissions.
2. The analyzer plots shown in this section were all taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables and attenuators used as part of the system to connect the EUT to the analyzer at all frequencies of interest.
3. All antenna port conducted emissions testing was performed on a test bench with the antenna port of the EUT connected to the spectrum analyzer through calibrated cables and attenuators.
4. For conducted spurious emissions, automated test software was used to measure emissions and capture the corresponding plots necessary to show compliance. The measurement software utilized is Element "Conducted Automation," Version 1.5.0
5. For radiated testing, automated test software was used to measure emissions and capture the corresponding plots necessary to show compliance. The measurement software utilized is Element "Chamber Automation," Version 3.6.1.

FCC ID: BCGA3459 IC: 579C-A3459	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2509100079-05-R3.BCG	Test Dates: 09/15/2025 - 11/13/2025	EUT Type: Tablet Device	Page 16 of 179

V 11.0 5/2025

7.2 99% OBW Measurement

§2.1049; RSS-Gen [6.7]

Test Overview and Limit

The occupied bandwidth, that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission shall be measured. All modes of operation were investigated and the worst case configuration results are reported in this section.

Test Procedure Used

ANSI C63.10:2020 + COR. 1:2023 + C63.10A:2024 + ERRATA TO C63.10A:2024 – Subclause 11.8.2 Option 2
KDB 558074 D01 v05r02 – Section 8.2
RSS-Gen [6.7]

Test Settings

1. The signal analyzers' automatic bandwidth measurement capability of the spectrum analyzer was used to perform the 99% occupied bandwidth. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
2. Span = between 1.5x to 5x the OBW
3. RBW = in the range of 1- 5% of the OBW
4. VBW $\geq 3 \times$ RBW
5. Detector = Peak
6. Trace mode = max hold
7. Sweep = auto couple
8. The trace was allowed to stabilize
9. If necessary, step 2 – 7 were repeated after changing the RBW such that it would be within 1 -5% of the 99% occupied bandwidth observed in Step 7

FCC ID: BCGA3459 IC: 579C-A3459	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2509100079-05-R3.BCG	Test Dates: 09/15/2025 - 11/13/2025	EUT Type: Tablet Device	Page 17 of 179

V 11.0 5/2025

Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

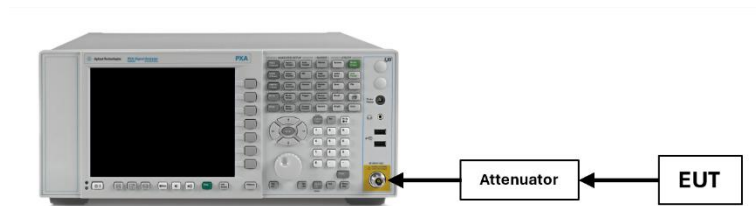


Figure 7-1. Test Instrument & Measurement Setup

Test Notes

1. All data rates and antenna configurations have been investigated, with tabular data reported for the worst-case data rate. Only the worst-case plot per mode was reported which corresponds to the widest 99% bandwidth.

FCC ID: BCGA3459 IC: 579C-A3459		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100079-05-R3.BCG	Test Dates: 09/15/2025 - 11/13/2025	EUT Type: Tablet Device	Page 18 of 179

V 11.0 5/2025

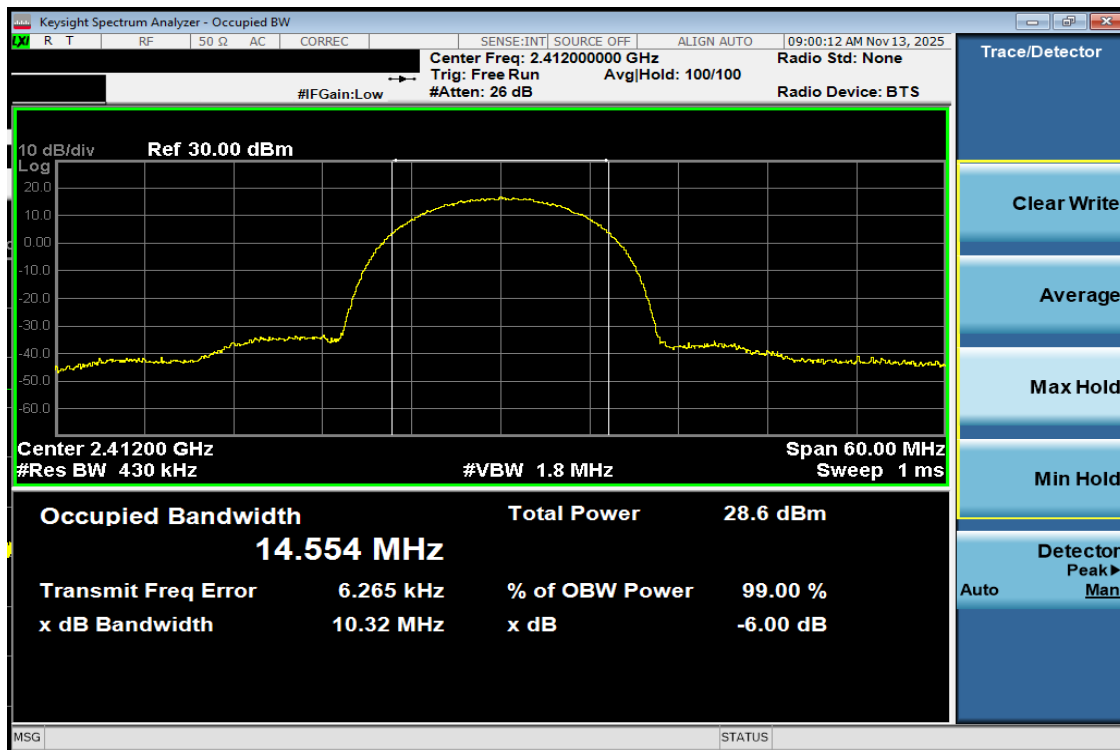
7.2.1 Antenna WF8 99% OBW Measurements

Frequency [MHz]	Channel	802.11 MODE	Data Rate	Measured 99% Occupied Bandwidth [MHz]
2412	1	b	11Mbps	14.55
2437	6	b	11Mbps	14.33
2462	11	b	11Mbps	14.23
2412	1	g	6Mbps	18.81
2437	6	g	6Mbps	18.88
2462	11	g	6Mbps	18.51
2412	1	n	MCS5	18.78
2437	6	n	MCS0	18.95
2462	11	n	MCS0	18.49
2412	1	be (SU)	MCS0	19.58
2437	6	be (SU)	MCS0	19.33
2462	11	be (SU)	MCS0	19.39

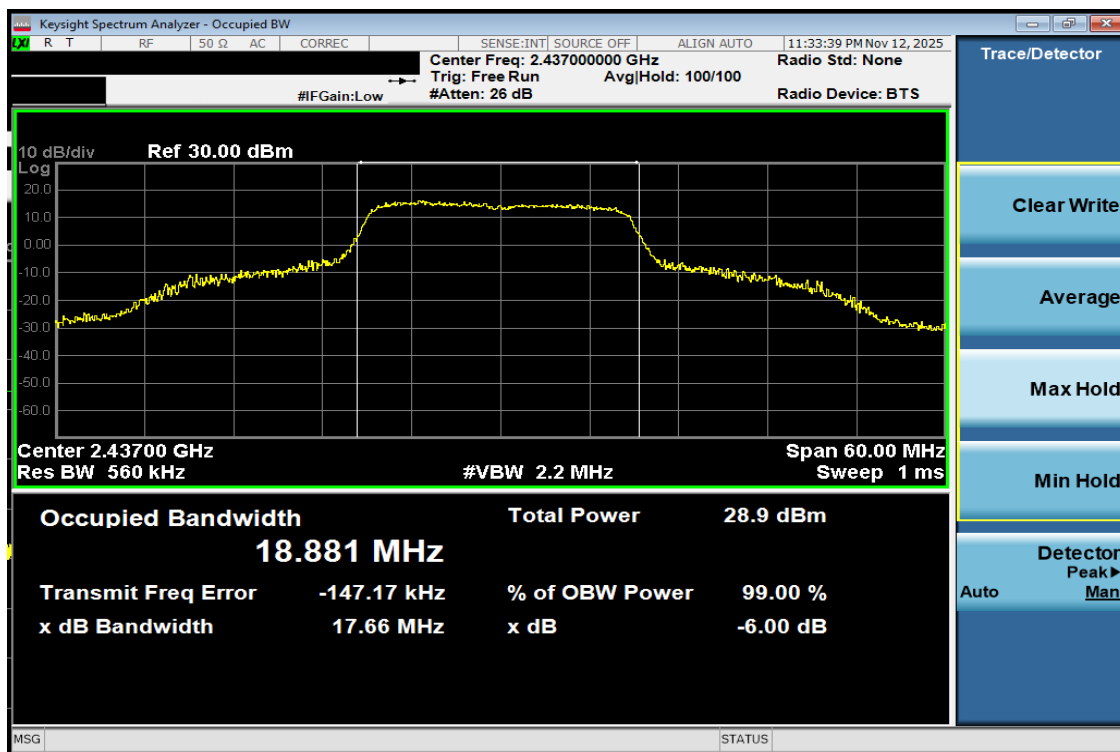
Table 7-2. Conducted Bandwidth Measurements Antenna WF8

FCC ID: BCGA3459 IC: 579C-A3459		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100079-05-R3.BCG	Test Dates: 09/15/2025 - 11/13/2025	EUT Type: Tablet Device	Page 19 of 179

V 11.0 5/2025



Plot 7-1 99% OBW Antenna WF8 (20MHz BW 802.11b - Ch.1)

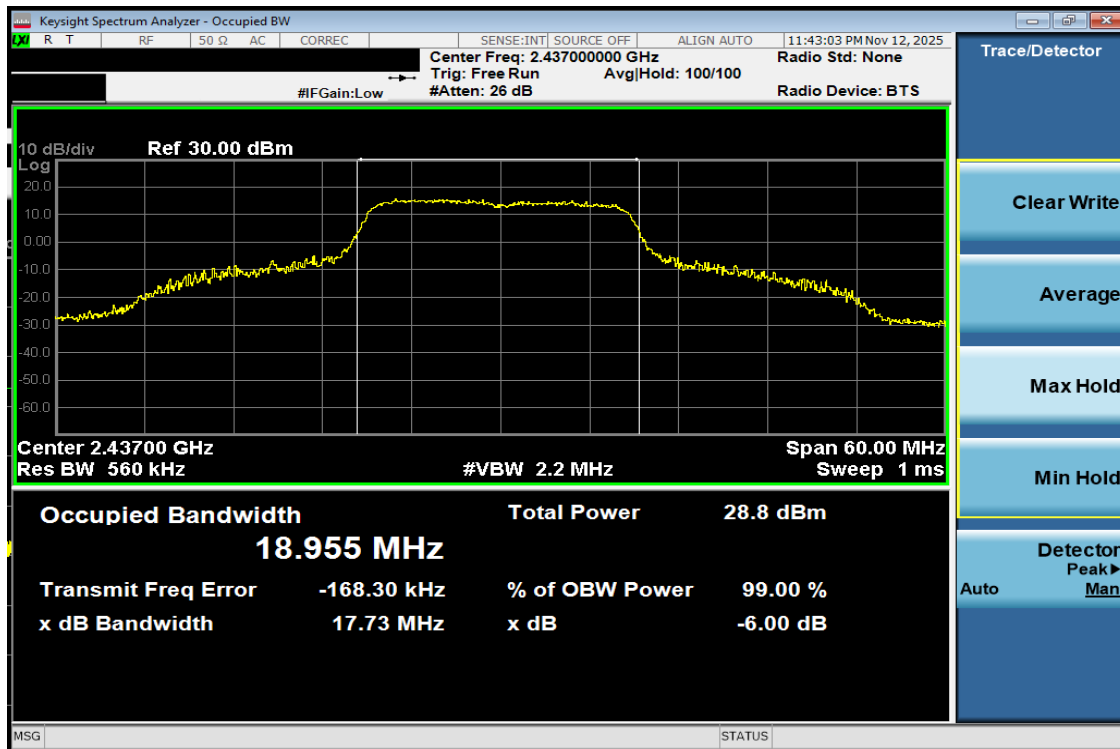


Plot 7-2 99% OBW Antenna WF8 (20MHz BW 802.11g - Ch.6)

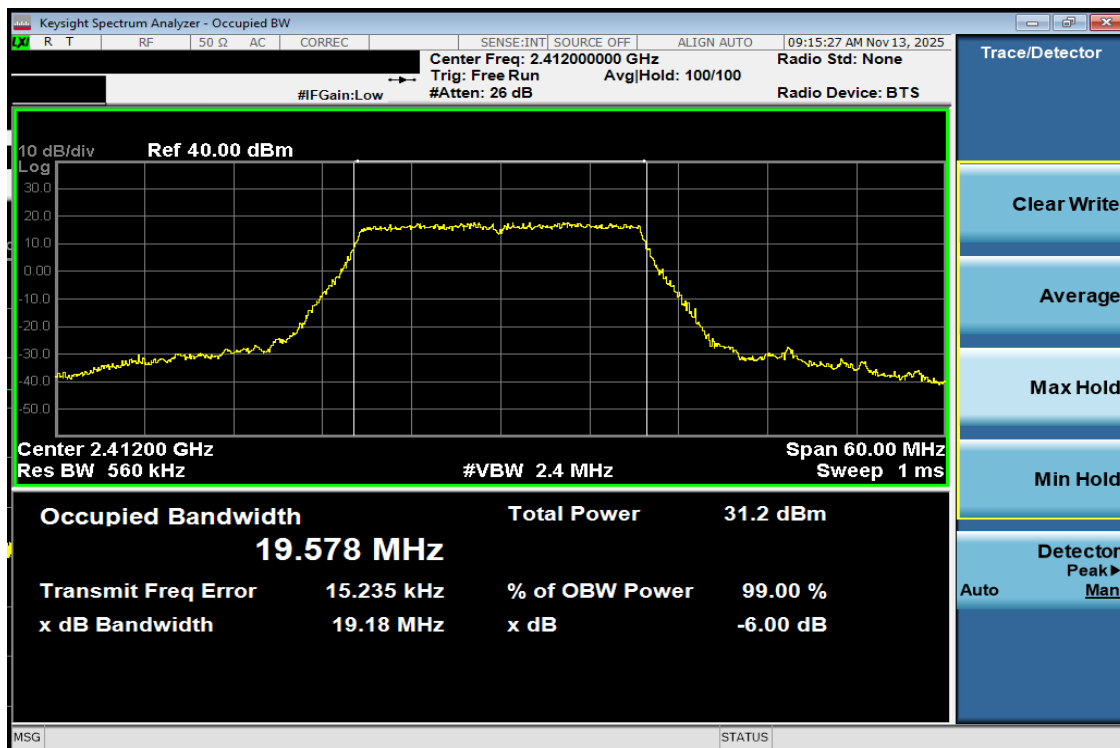
FCC ID: BCGA3459 IC: 579C-A3459	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2509100079-05-R3.BCG	Test Dates: 09/15/2025 - 11/13/2025	EUT Type: Tablet Device	Page 20 of 179

V 11.0 5/2025

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Plot 7-3 99% OBW Antenna WF8 (20MHz BW 802.11n - Ch.6)



Plot 7-4 99% OBW Antenna WF8 (20MHz BW 802.11be(SU) - Ch.1)

FCC ID: BCGA3459 IC: 579C-A3459		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100079-05-R3.BCG	Test Dates: 09/15/2025 - 11/13/2025	EUT Type: Tablet Device	Page 21 of 179

V 11.0 5/2025

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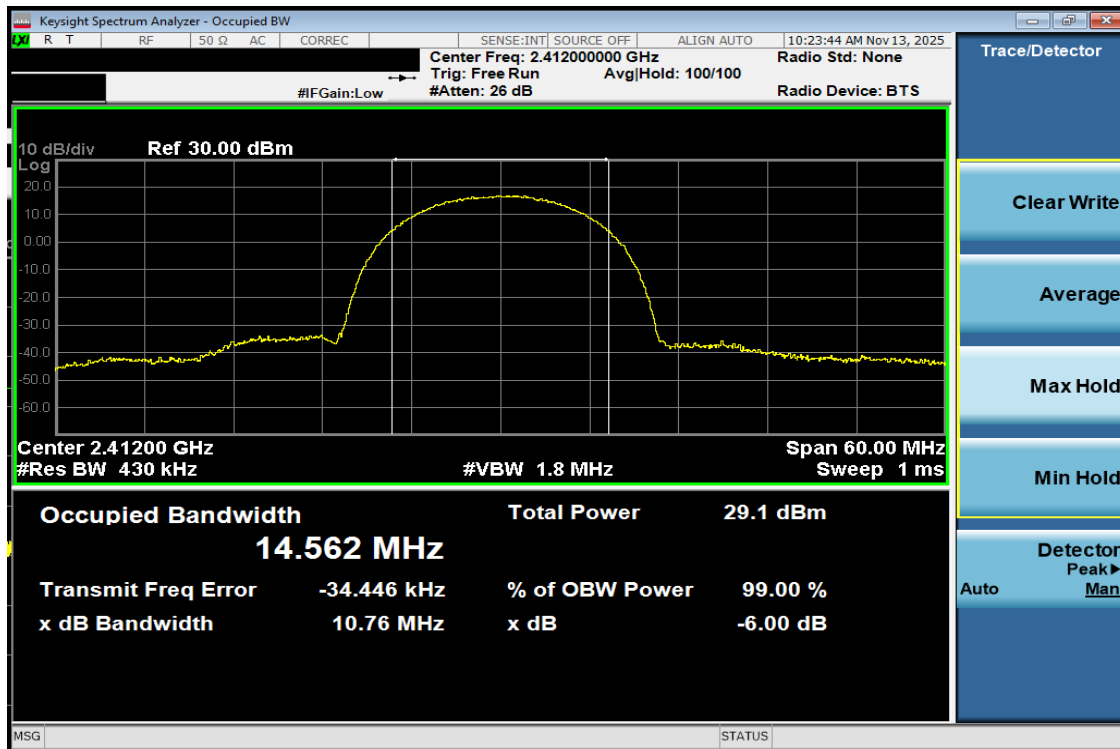
7.2.2 Antenna WF7b 99% OBW Measurements

Frequency [MHz]	Channel	802.11 MODE	Data Rate	Measured 99% Occupied Bandwidth [MHz]
2412	1	b	11Mbps	14.56
2437	6	b	11Mbps	14.31
2462	11	b	11Mbps	14.34
2412	1	g	6Mbps	18.78
2437	6	g	6Mbps	18.77
2462	11	g	6Mbps	18.60
2412	1	n	MCS0	18.74
2437	6	n	MCS0	18.75
2462	11	n	MCS0	18.59
2412	1	be (SU)	MCS0	19.65
2437	6	be (SU)	MCS5	19.27
2462	11	be (SU)	MCS0	19.46

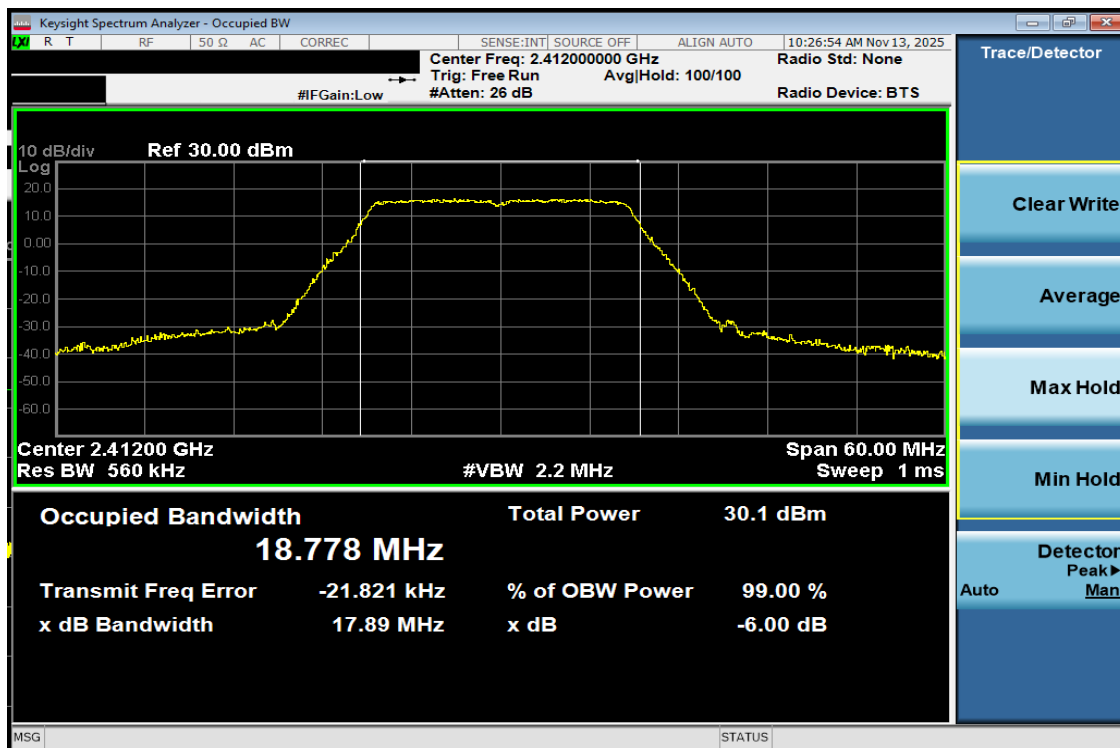
Table 7-3. Conducted Bandwidth Measurements Antenna WF7b

FCC ID: BCGA3459 IC: 579C-A3459		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100079-05-R3.BCG	Test Dates: 09/15/2025 - 11/13/2025	EUT Type: Tablet Device	Page 22 of 179

V 11.0 5/2025



Plot 7-5 99% OBW Antenna WF7b (20MHz BW 802.11b - Ch.1)

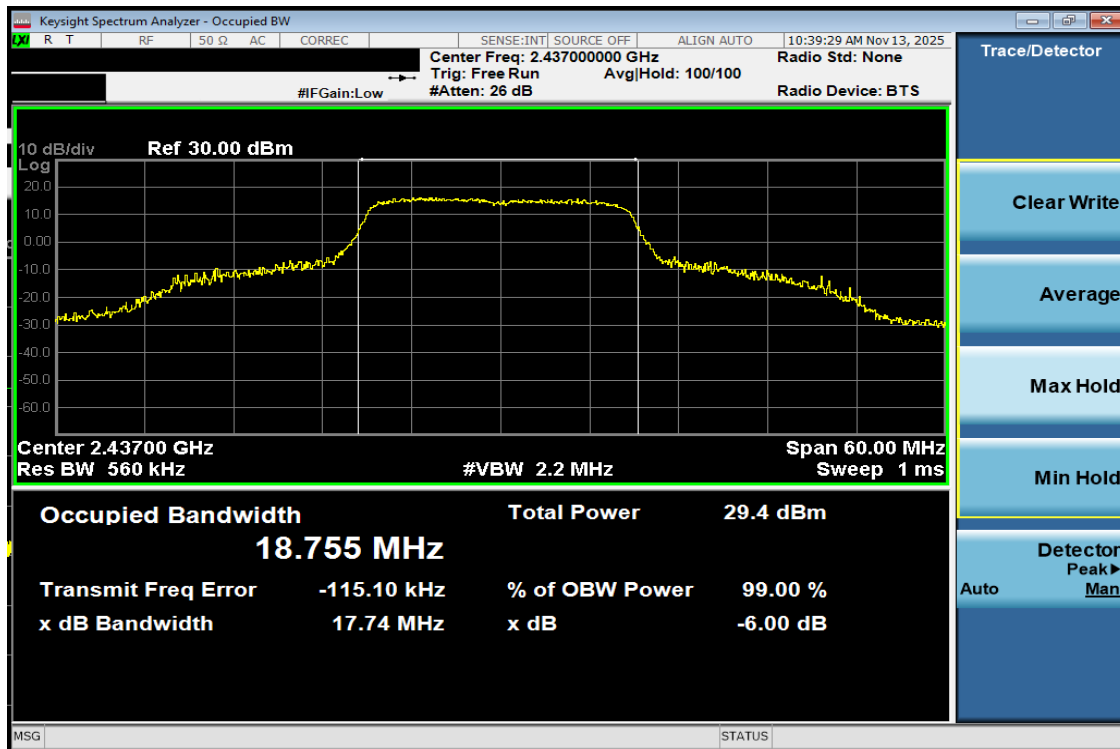


Plot 7-6 99% OBW Antenna WF7b (20MHz BW 802.11g - Ch.1)

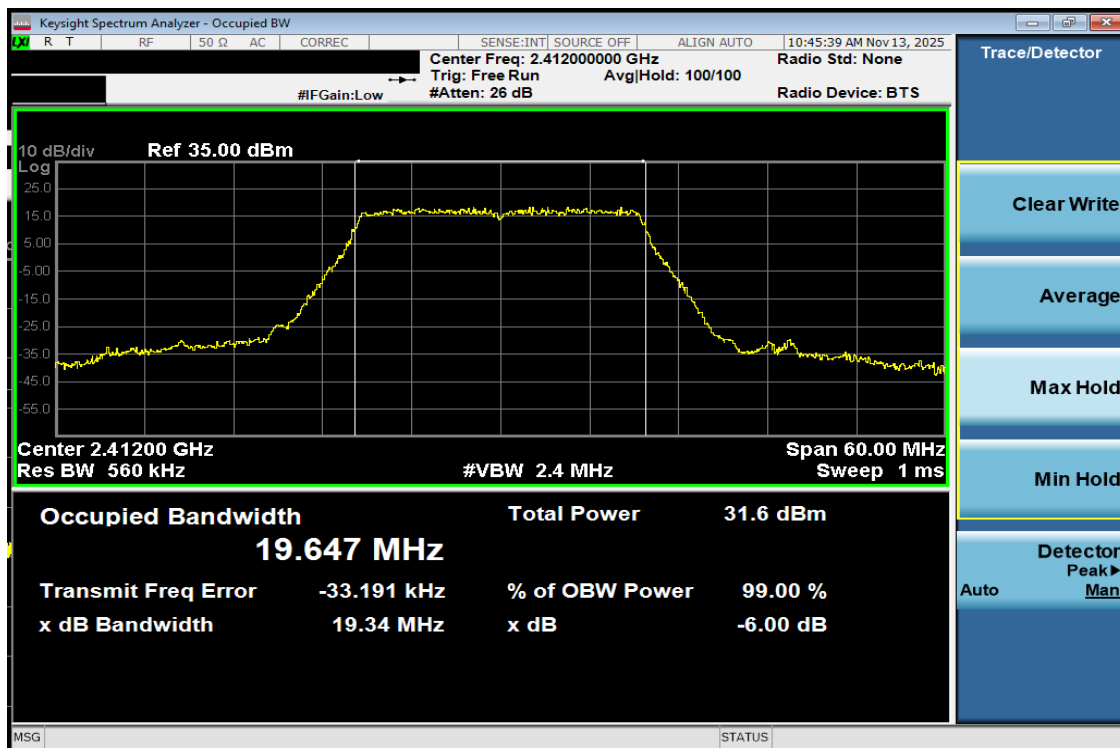
FCC ID: BCGA3459 IC: 579C-A3459		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100079-05-R3.BCG	Test Dates: 09/15/2025 - 11/13/2025	EUT Type: Tablet Device	Page 23 of 179

V 11.0 5/2025

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Plot 7-7 99% OBW Antenna WF7b (20MHz BW 802.11n - Ch.6)



Plot 7-8 99% OBW Antenna WF7b (20MHz BW 802.11be(SU) - Ch.1)

FCC ID: BCGA3459 IC: 579C-A3459		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100079-05-R3.BCG	Test Dates: 09/15/2025 - 11/13/2025	EUT Type: Tablet Device	Page 24 of 179

V 11.0 5/2025

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7.3 6dB BW Measurement

§15.247(a)(2); RSS-247 [6.3.1(a)]

Test Overview and Limit

The bandwidth at 6dB down from the highest in-band spectral density is measured with a spectrum analyzer connected to the transmitter antenna terminal of the EUT while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates were investigated and the worst case configuration results are reported in this section.

The minimum permissible 6dB bandwidth is 500 kHz.

Test Procedure Used

ANSI C63.10:2020 + COR. 1:2023 + C63.10A:2024 + ERRATA TO C63.10A:2024 – Subclause 11.8.2 Option 2
KDB 558074 D01 v05r02 – Section 8.2

Test Settings

1. The signal analyzer's 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.
2. RBW = 100kHz
3. VBW $\geq 3 \times$ RBW
4. Detector = Peak
5. Trace mode = max hold
6. Sweep = auto couple
7. The trace was allowed to stabilize

Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.



Figure 7-2. Test Instrument & Measurement Setup

Test Notes

1. All data rates and antenna configurations have been investigated, with tabular data reported for the worst-case data rate. Only the worst-case plot per mode was reported which corresponds to the narrowest 6dB bandwidth.

FCC ID: BCGA3459 IC: 579C-A3459	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2509100079-05-R3.BCG	Test Dates: 09/15/2025 - 11/13/2025	EUT Type: Tablet Device	Page 25 of 179

V 11.0 5/2025

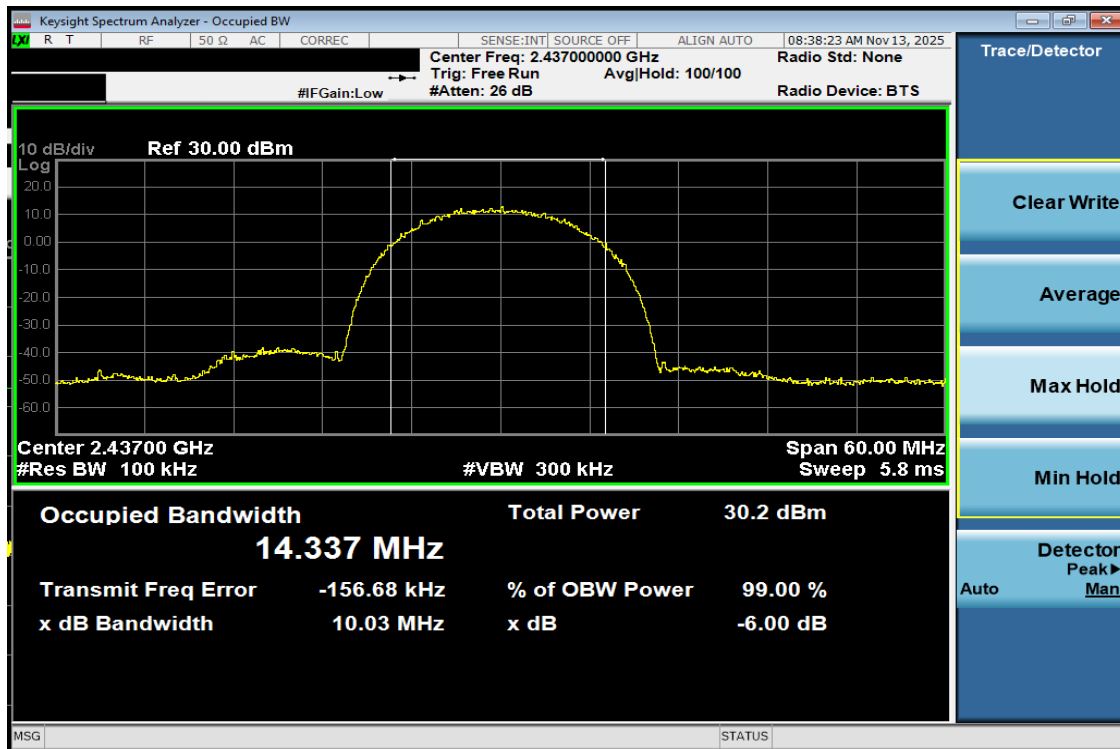
7.3.1 Antenna WF8 6dB BW Measurements

Frequency [MHz]	Channel	802.11 MODE	Data Rate	Measured 6dB Bandwidth [MHz]	Minimum 6dB Bandwidth [MHz]	Pass/Fail
2412	1	b	11Mbps	11.14	0.50	Pass
2437	6	b	11Mbps	10.03	0.50	Pass
2462	11	b	11Mbps	10.36	0.50	Pass
2412	1	g	6Mbps	17.55	0.50	Pass
2437	6	g	18Mbps	17.03	0.50	Pass
2462	11	g	6Mbps	16.45	0.50	Pass
2412	1	n	MCS0	17.59	0.50	Pass
2437	6	n	MCS0	16.97	0.50	Pass
2462	11	n	MCS0	16.67	0.50	Pass
2412	1	be (SU)	MCS0	18.97	0.50	Pass
2437	6	be (SU)	MCS0	18.76	0.50	Pass
2462	11	be (SU)	MCS0	18.42	0.50	Pass

Table 7-4. Conducted Bandwidth Measurements Antenna WF8

FCC ID: BCGA3459 IC: 579C-A3459	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2509100079-05-R3.BCG	Test Dates: 09/15/2025 - 11/13/2025	EUT Type: Tablet Device	Page 26 of 179

V 11.0 5/2025



Plot 7-9 6dB BW Antenna WF8 (20MHz BW 802.11b - Ch.6)

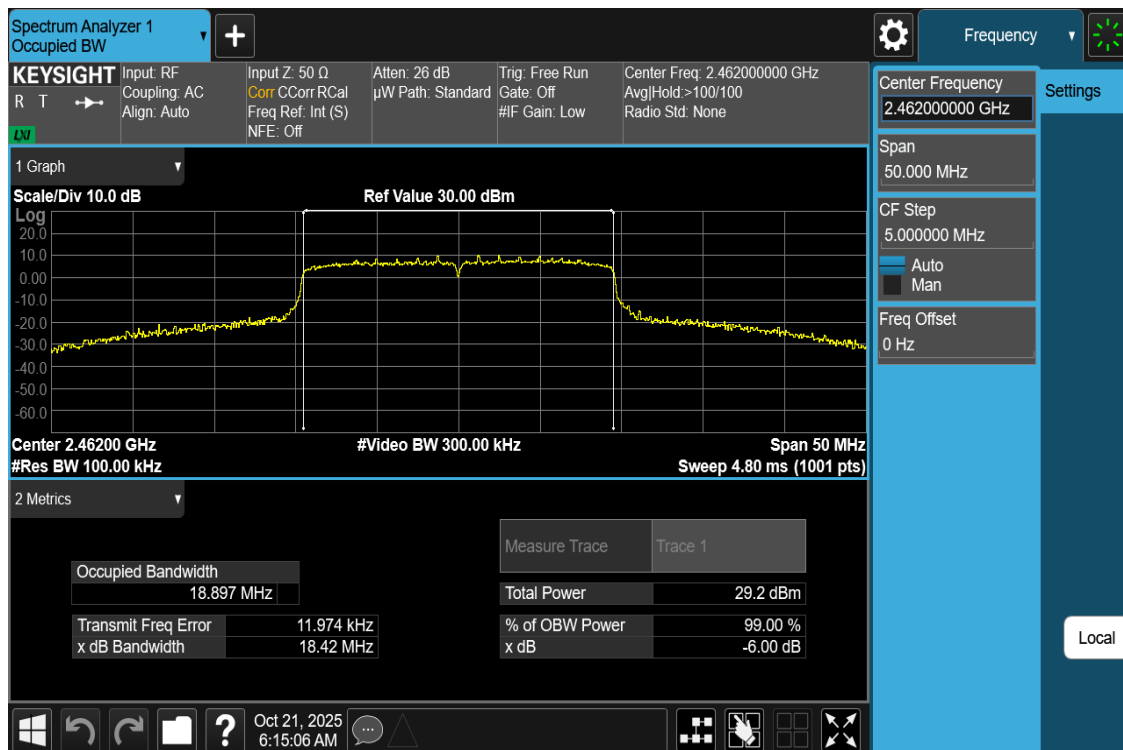
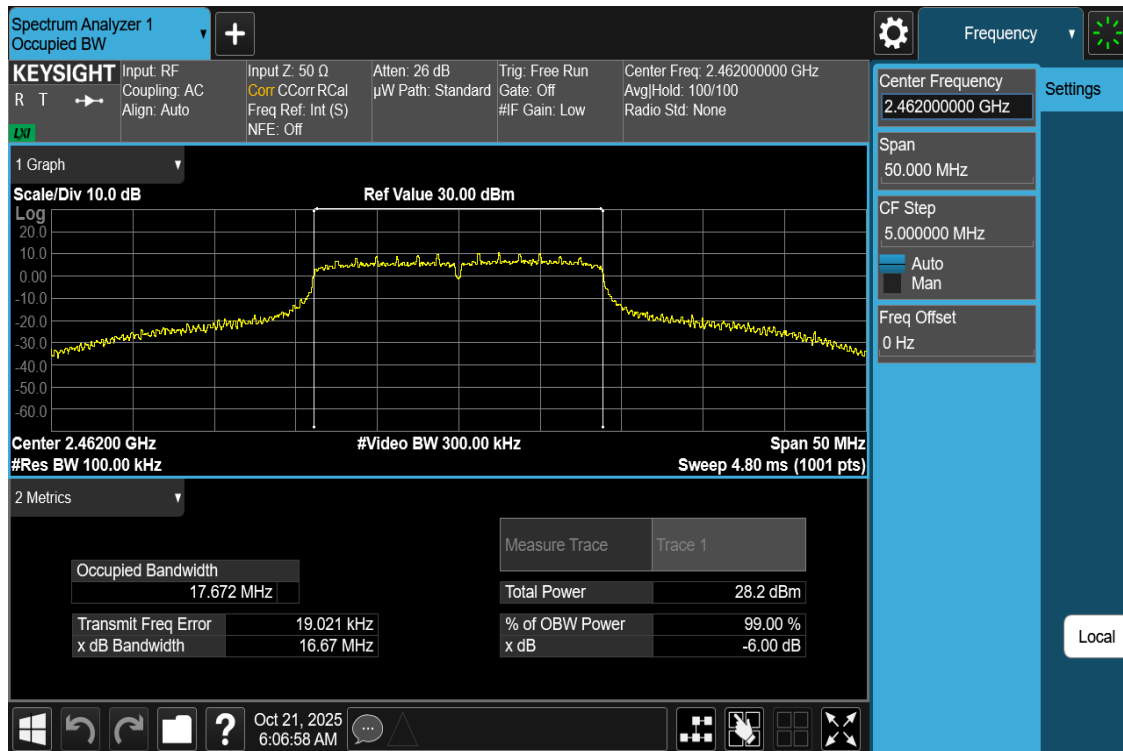


Plot 7-10 6dB BW Antenna WF8 (20MHz BW 802.11g - Ch.11)

FCC ID: BCGA3459 IC: 579C-A3459	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2509100079-05-R3.BCG	Test Dates: 09/15/2025 - 11/13/2025	EUT Type: Tablet Device	Page 27 of 179

V 11.0 5/2025

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FCC ID: BCGA3459 IC: 579C-A3459		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100079-05-R3.BCG	Test Dates: 09/15/2025 - 11/13/2025	EUT Type: Tablet Device	Page 28 of 179

V 11.0 5/2025

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7.3.2 Antenna WF7b 6dB BW Measurements

Frequency [MHz]	Channel	802.11 MODE	Data Rate	Measured 6dB Bandwidth [MHz]	Minimum 6dB Bandwidth [MHz]	Pass/Fail
2412	1	b	11Mbps	9.76	0.50	Pass
2437	6	b	11Mbps	10.06	0.50	Pass
2462	11	b	11Mbps	10.07	0.50	Pass
2412	1	g	6Mbps	17.59	0.50	Pass
2437	6	g	6Mbps	16.96	0.50	Pass
2462	11	g	6Mbps	17.18	0.50	Pass
2412	1	n	MCS0	17.58	0.50	Pass
2437	6	n	MCS0	17.23	0.50	Pass
2462	11	n	MCS0	17.17	0.50	Pass
2412	1	be (SU)	MCS0	18.96	0.50	Pass
2437	6	be (SU)	MCS0	18.81	0.50	Pass
2462	11	be (SU)	MCS0	18.80	0.50	Pass

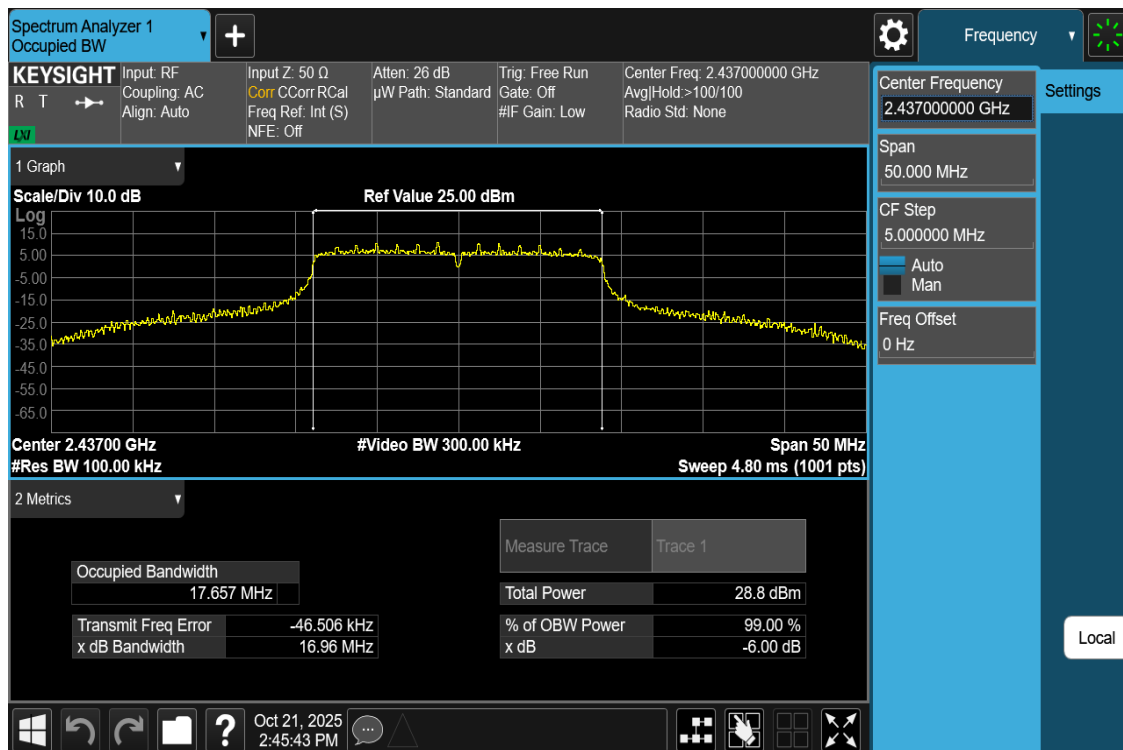
Table 7-5. Conducted Bandwidth Measurements Antenna WF7b

FCC ID: BCGA3459 IC: 579C-A3459	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2509100079-05-R3.BCG	Test Dates: 09/15/2025 - 11/13/2025	EUT Type: Tablet Device	Page 29 of 179

V 11.0 5/2025



Plot 7-13 6dB BW Antenna WF7b (20MHz BW 802.11b - Ch.1)

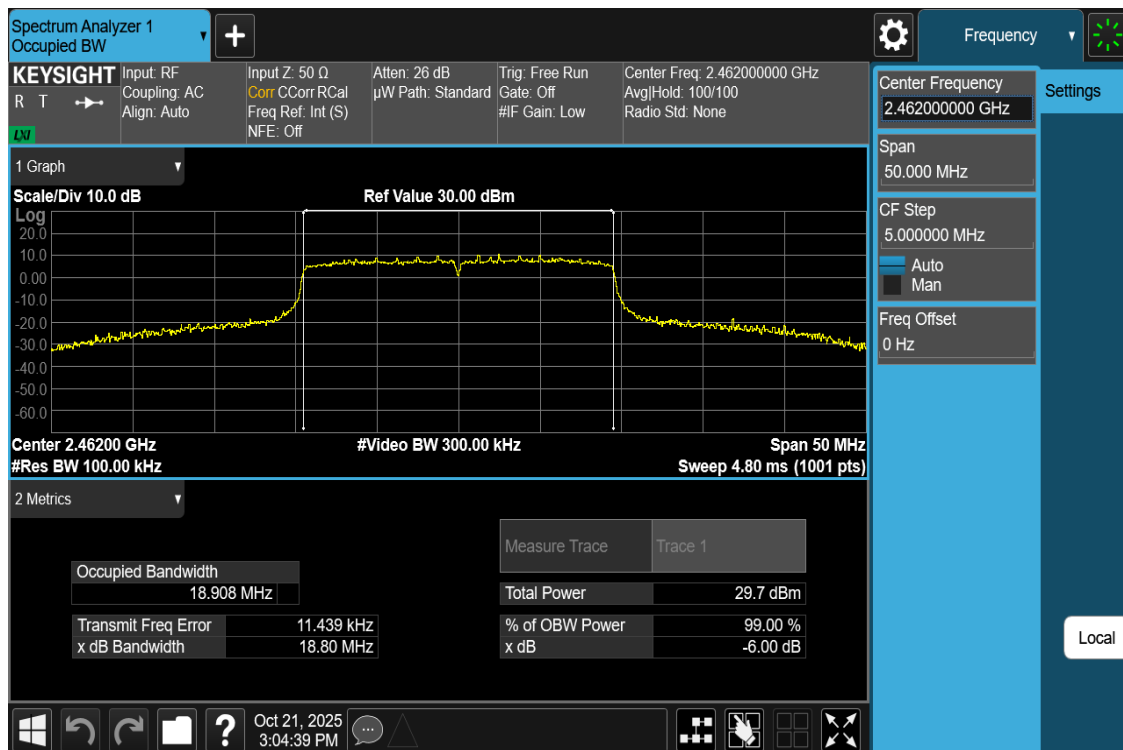
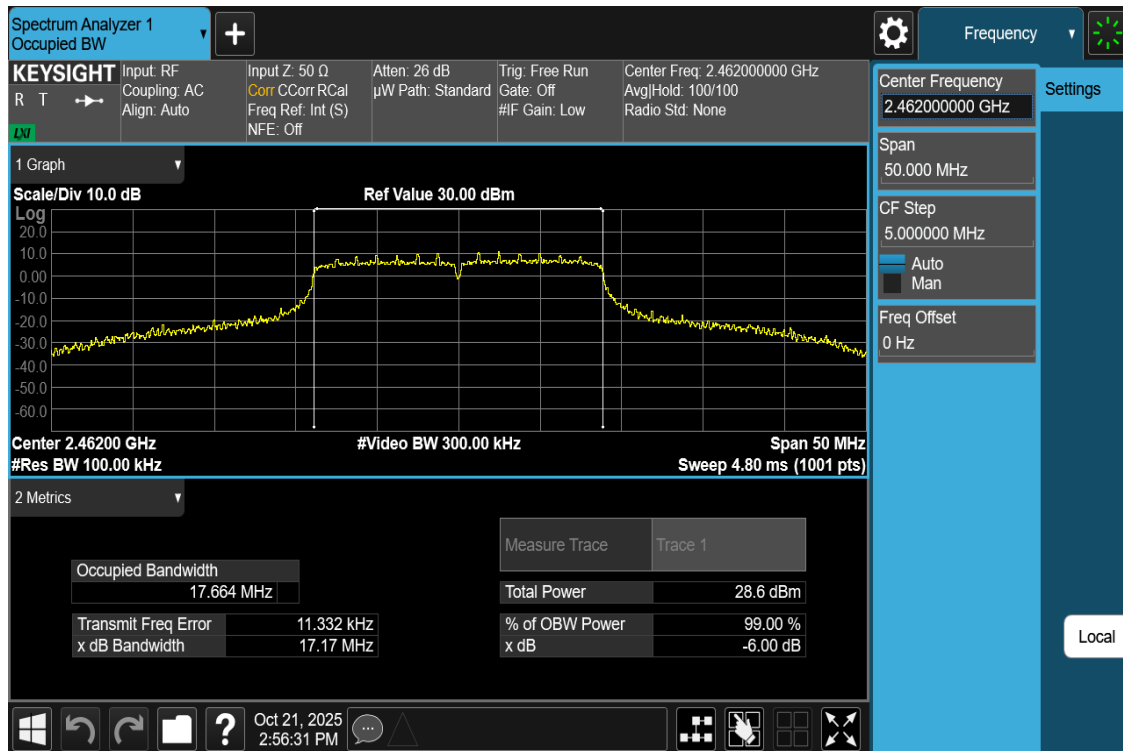


Plot 7-14 6dB BW Antenna WF7b (20MHz BW 802.11g - Ch.6)

FCC ID: BCGA3459 IC: 579C-A3459	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2509100079-05-R3.BCG	Test Dates: 09/15/2025 - 11/13/2025	EUT Type: Tablet Device	Page 30 of 179

V 11.0 5/2025

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Test Report S/N: 1C2509100079-05-R3.BCG	Test Dates: 09/15/2025 - 11/13/2025	EUT Type: Tablet Device	Page 31 of 179

V 11.0 5/2025

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7.4 Output Power Measurement

\$15.247(b)(3); RSS-247 [6.3.2]

Test Overview and Limits

A transmitter antenna terminal of EUT is connected to the input of an RF power sensor. Measurement is made using a broadband power meter capable of making average measurements while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies.

The average conducted output power of digital modulation systems operating in the 2400-2483.5 MHz band is 1 Watt.

The conducted output power limit on paragraph above is based on the use of antennas with directional gains that do not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For DTSSs employing digital modulation techniques operating in the band 2400-2483.5 MHz, the average conducted output power shall not exceed 1 W. The e.i.r.p. shall not exceed 4 W.

Test Procedure Used

ANSI C63.10:2020 + COR. 1:2023 + C63.10A:2024 + ERRATA TO C63.10A:2024 – Subclause 11.9.2.3.2 Method AVGPM-G KDB 558074 D01 v05r02 – Section 8.3.2.3 Measurement using a Power Meter (PM)

ANSI C63.10:2020 + COR. 1:2023 + C63.10A:2024 + ERRATA TO C63.10A:2024 – Subclause 14.4 Measure-and-Sum Technique

KDB 662911 D01 v02r01 – Section E)1) Measure-and-Sum Technique

Test Settings

Method AVGPM-G (Average Power Measurement)

Average power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The power meter implemented triggering and gating capabilities which were set up such that power measurements were recorded only during the ON time of the transmitter. The trace was averaged over 100 traces to obtain the final measured average power.

Test Setup

The EUT and measurement equipment were set up as shown in the diagrams below.



Figure 7-3. Test Instrument & Measurement Setup for Power Meter Measurements

Test Notes

1. All data rates have been investigated, and tabular data has been reported for the worst-case data rate.

FCC ID: BCGA3459 IC: 579C-A3459		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100079-05-R3.BCG	Test Dates: 09/15/2025 - 11/13/2025	EUT Type: Tablet Device	Page 32 of 179

V 11.0 5/2025

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7.4.1 Antenna WF8 Output Power Measurement

§15.247(b.3); RSS-247 [5.4]

Freq [MHz]	Channel	Data Rate	Conducted Power [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
2412	1	11Mbps	21.43	-8.57	1.50	22.93	36.02	-13.09
2417	2	11Mbps	21.95	-8.05	1.50	23.45	36.02	-12.57
2422	3	11Mbps	21.99	-8.01	1.50	23.49	36.02	-12.53
2427	4	11Mbps	21.97	-8.03	1.50	23.47	36.02	-12.55
2432	5	11Mbps	21.97	-8.03	1.50	23.47	36.02	-12.55
2437	6	11Mbps	21.90	-8.10	1.50	23.40	36.02	-12.62
2442	7	11Mbps	21.86	-8.14	1.50	23.36	36.02	-12.66
2447	8	11Mbps	21.96	-8.04	1.50	23.46	36.02	-12.56
2452	9	11Mbps	21.70	-8.30	1.50	23.20	36.02	-12.82
2457	10	11Mbps	21.73	-8.27	1.50	23.23	36.02	-12.79
2462	11	11Mbps	21.78	-8.22	1.50	23.28	36.02	-12.74
2467	12	11Mbps	19.49	-10.51	1.50	20.99	36.02	-15.03
2472	13	11Mbps	17.17	-12.83	1.50	18.67	36.02	-17.35

Table 7-6. Average Conducted Output Power Measurements Antenna WF8 (802.11b)

Freq [MHz]	Channel	Data Rate	Conducted Power [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
2412	1	6Mbps	15.28	-14.72	1.50	16.78	36.02	-19.24
2417	2	6Mbps	18.26	-11.74	1.50	19.76	36.02	-16.26
2422	3	18Mbps	19.07	-10.93	1.50	20.57	36.02	-15.45
2427	4	6Mbps	20.81	-9.19	1.50	22.31	36.02	-13.71
2432	5	6Mbps	21.68	-8.32	1.50	23.18	36.02	-12.84
2437	6	6Mbps	21.66	-8.34	1.50	23.16	36.02	-12.86
2442	7	6Mbps	21.64	-8.37	1.50	23.14	36.02	-12.89
2447	8	36Mbps	20.29	-9.71	1.50	21.79	36.02	-14.23
2452	9	6Mbps	19.28	-10.72	1.50	20.78	36.02	-15.24
2457	10	6Mbps	18.63	-11.37	1.50	20.13	36.02	-15.89
2462	11	18Mbps	16.79	-13.21	1.50	18.29	36.02	-17.73
2467	12	6Mbps	15.85	-14.15	1.50	17.35	36.02	-18.67
2472	13	18Mbps	9.31	-20.69	1.50	10.81	36.02	-25.21

Table 7-7. Average Conducted Output Power Measurements Antenna WF8 (802.11g)

FCC ID: BCGA3459 IC: 579C-A3459		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100079-05-R3.BCG	Test Dates: 09/15/2025 - 11/13/2025	EUT Type: Tablet Device	Page 33 of 179

V 11.0 5/2025

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Freq [MHz]	Channel	Data Rate	Conducted Power [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
2412	1	MCS3	15.05	-14.95	1.50	16.55	36.02	-19.47
2417	2	MCS0	18.23	-11.77	1.50	19.73	36.02	-16.29
2422	3	MCS3	19.09	-10.91	1.50	20.59	36.02	-15.43
2427	4	MCS0	21.29	-8.72	1.50	22.79	36.02	-13.24
2432	5	MCS3	21.64	-8.36	1.50	23.14	36.02	-12.88
2437	6	MCS5	21.70	-8.30	1.50	23.20	36.02	-12.82
2442	7	MCS3	21.64	-8.36	1.50	23.14	36.02	-12.88
2447	8	MCS5	20.26	-9.74	1.50	21.76	36.02	-14.26
2452	9	MCS0	19.24	-10.76	1.50	20.74	36.02	-15.28
2457	10	MCS0	18.57	-11.43	1.50	20.07	36.02	-15.95
2462	11	MCS0	16.61	-13.39	1.50	18.11	36.02	-17.91
2467	12	MCS0	15.87	-14.13	1.50	17.37	36.02	-18.65
2472	13	MCS3	9.36	-20.64	1.50	10.86	36.02	-25.16

Table 7-8. Average Conducted Output Power Measurements Antenna WF8 (802.11n)

Freq [MHz]	Channel	Data Rate	Conducted Power [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
2412	1	MCS0	15.21	-14.79	1.50	16.71	36.02	-19.31
2417	2	MCS0	17.96	-12.04	1.50	19.46	36.02	-16.56
2422	3	MCS0	19.05	-10.95	1.50	20.55	36.02	-15.47
2427	4	MCS0	20.45	-9.55	1.50	21.95	36.02	-14.07
2432	5	MCS0	21.32	-8.68	1.50	22.82	36.02	-13.20
2437	6	MCS3	21.57	-8.43	1.50	23.07	36.02	-12.95
2442	7	MCS0	21.35	-8.65	1.50	22.85	36.02	-13.17
2447	8	MCS0	20.25	-9.75	1.50	21.75	36.02	-14.27
2452	9	MCS0	18.81	-11.19	1.50	20.31	36.02	-15.71
2457	10	MCS0	18.28	-11.72	1.50	19.78	36.02	-16.24
2462	11	MCS0	16.97	-13.03	1.50	18.47	36.02	-17.55
2467	12	MCS0	14.65	-15.35	1.50	16.15	36.02	-19.87
2472	13	MCS5	5.78	-24.22	1.50	7.28	36.02	-28.74

Table 7-9. Average Conducted Output Power Measurements Antenna WF8 (802.11be-SU)

FCC ID: BCGA3459 IC: 579C-A3459		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100079-05-R3.BCG	Test Dates: 09/15/2025 - 11/13/2025	EUT Type: Tablet Device	Page 34 of 179

V 11.0 5/2025

7.4.2 Antenna WF7b Output Power Measurement

§15.247(b.3); RSS-247 [5.4]

Freq [MHz]	Channel	Data Rate	Conducted Power [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
2412	1	11Mbps	21.40	-8.60	-0.30	21.10	36.02	-14.92
2417	2	11Mbps	21.72	-8.28	-0.30	21.42	36.02	-14.60
2422	3	11Mbps	21.75	-8.25	-0.30	21.45	36.02	-14.57
2427	4	11Mbps	21.78	-8.23	-0.30	21.48	36.02	-14.55
2432	5	11Mbps	21.92	-8.09	-0.30	21.62	36.02	-14.41
2437	6	11Mbps	21.89	-8.12	-0.30	21.59	36.02	-14.44
2442	7	11Mbps	21.84	-8.16	-0.30	21.54	36.02	-14.48
2447	8	11Mbps	21.84	-8.16	-0.30	21.54	36.02	-14.48
2452	9	11Mbps	21.84	-8.17	-0.30	21.54	36.02	-14.49
2457	10	11Mbps	21.82	-8.18	-0.30	21.52	36.02	-14.50
2462	11	11Mbps	21.76	-8.24	-0.30	21.46	36.02	-14.56
2467	12	11Mbps	19.12	-10.88	-0.30	18.82	36.02	-17.20
2472	13	11Mbps	17.49	-12.51	-0.30	17.19	36.02	-18.83

Table 7-10. Average Conducted Output Power Measurements Antenna WF7b (802.11b)

Freq [MHz]	Channel	Data Rate	Conducted Power [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
2412	1	6Mbps	16.21	-13.80	-0.30	15.91	36.02	-20.12
2417	2	6Mbps	19.21	-10.79	-0.30	18.91	36.02	-17.11
2422	3	6Mbps	20.43	-9.57	-0.30	20.13	36.02	-15.89
2427	4	6Mbps	21.18	-8.82	-0.30	20.88	36.02	-15.14
2432	5	36Mbps	21.91	-8.09	-0.30	21.61	36.02	-14.41
2437	6	6Mbps	21.98	-8.03	-0.30	21.68	36.02	-14.35
2442	7	6Mbps	21.96	-8.04	-0.30	21.66	36.02	-14.36
2447	8	6Mbps	21.45	-8.55	-0.30	21.15	36.02	-14.87
2452	9	6Mbps	20.84	-9.16	-0.30	20.54	36.02	-15.48
2457	10	6Mbps	19.90	-10.10	-0.30	19.60	36.02	-16.42
2462	11	6Mbps	17.83	-12.17	-0.30	17.53	36.02	-18.49
2467	12	6Mbps	15.30	-14.70	-0.30	15.00	36.02	-21.02
2472	13	6Mbps	9.87	-20.13	-0.30	9.57	36.02	-26.45

Table 7-11. Average Conducted Output Power Measurements Antenna WF7b (802.11g)

FCC ID: BCGA3459 IC: 579C-A3459	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2509100079-05-R3.BCG	Test Dates: 09/15/2025 - 11/13/2025	EUT Type: Tablet Device	Page 35 of 179

V 11.0 5/2025

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Freq [MHz]	Channel	Data Rate	Conducted Power [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
2412	1	MCS0	16.17	-13.83	-0.30	15.87	36.02	-20.15
2417	2	MCS0	19.20	-10.80	-0.30	18.90	36.02	-17.12
2422	3	MCS0	20.44	-9.56	-0.30	20.14	36.02	-15.88
2427	4	MCS0	21.16	-8.84	-0.30	20.86	36.02	-15.16
2432	5	MCS5	21.69	-8.31	-0.30	21.39	36.02	-14.63
2437	6	MCS5	21.99	-8.02	-0.30	21.69	36.02	-14.34
2442	7	MCS0	21.97	-8.03	-0.30	21.67	36.02	-14.35
2447	8	MCS0	21.47	-8.53	-0.30	21.17	36.02	-14.85
2452	9	MCS0	20.86	-9.14	-0.30	20.56	36.02	-15.46
2457	10	MCS0	19.98	-10.02	-0.30	19.68	36.02	-16.34
2462	11	MCS0	17.81	-12.19	-0.30	17.51	36.02	-18.51
2467	12	MCS0	15.32	-14.68	-0.30	15.02	36.02	-21.00
2472	13	MCS0	9.91	-20.09	-0.30	9.61	36.02	-26.41

Table 7-12. Average Conducted Output Power Measurements Antenna WF7b (802.11n)

Freq [MHz]	Channel	Data Rate	Conducted Power [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
2412	1	MCS3	15.97	-14.03	-0.30	15.67	36.02	-20.35
2417	2	MCS0	18.39	-11.61	-0.30	18.09	36.02	-17.93
2422	3	MCS0	20.28	-9.73	-0.30	19.98	36.02	-16.05
2427	4	MCS0	20.55	-9.45	-0.30	20.25	36.02	-15.77
2432	5	MCS5	21.85	-8.16	-0.30	21.55	36.02	-14.48
2437	6	MCS3	21.85	-8.15	-0.30	21.55	36.02	-14.47
2442	7	MCS3	21.80	-8.20	-0.30	21.50	36.02	-14.52
2447	8	MCS3	20.35	-9.65	-0.30	20.05	36.02	-15.97
2452	9	MCS0	20.44	-9.56	-0.30	20.14	36.02	-15.88
2457	10	MCS3	18.87	-11.13	-0.30	18.57	36.02	-17.45
2462	11	MCS0	17.84	-12.16	-0.30	17.54	36.02	-18.48
2467	12	MCS0	14.79	-15.21	-0.30	14.49	36.02	-21.53
2472	13	MCS3	5.69	-24.32	-0.30	5.39	36.02	-30.64

Table 7-13. Average Conducted Output Power Measurements Antenna WF7b (802.11be-SU)

FCC ID: BCGA3459 IC: 579C-A3459		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100079-05-R3.BCG	Test Dates: 09/15/2025 - 11/13/2025	EUT Type: Tablet Device	Page 36 of 179

7.4.3 CDD Output Power Measurement

§15.247(b.3); RSS-247 [5.4]

Freq [MHz]	Channel	Data Rate	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
			Antenna WF8	Antenna WF7b	Summed						
2412	1	1Mbps	21.66	21.62	24.65	30.00	-5.35	3.66	28.31	36.02	-7.71
2417	2	1Mbps	22.00	21.53	24.78	30.00	-5.22	3.66	28.44	36.02	-7.58
2422	3	1Mbps	21.99	21.57	24.79	30.00	-5.21	3.66	28.45	36.02	-7.57
2427	4	1Mbps	21.51	21.61	24.57	30.00	-5.43	3.66	28.23	36.02	-7.79
2432	5	1Mbps	21.95	21.72	24.85	30.00	-5.15	3.66	28.51	36.02	-7.51
2437	6	1Mbps	21.93	21.65	24.80	30.00	-5.20	3.66	28.46	36.02	-7.56
2442	7	1Mbps	21.89	21.57	24.74	30.00	-5.26	3.66	28.40	36.02	-7.62
2447	8	1Mbps	21.76	21.60	24.69	30.00	-5.31	3.66	28.35	36.02	-7.67
2452	9	1Mbps	21.73	21.57	24.66	30.00	-5.34	3.66	28.32	36.02	-7.70
2457	10	1Mbps	21.75	21.56	24.67	30.00	-5.33	3.66	28.33	36.02	-7.69
2462	11	1Mbps	21.59	21.54	24.57	30.00	-5.43	3.66	28.23	36.02	-7.79
2467	12	1Mbps	16.88	16.81	19.86	30.00	-10.14	3.66	23.52	36.02	-12.50
2472	13	1Mbps	14.50	14.25	17.38	30.00	-12.62	3.66	21.04	36.02	-14.98

Table 7-14. Average Conducted Output Power Measurements CDD (802.11b)

Freq [MHz]	Channel	Data Rate	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
			Antenna WF8	Antenna WF7b	Summed						
2412	1	6Mbps	14.07	14.19	17.14	30.00	-12.86	3.66	20.80	36.02	-15.22
2417	2	6Mbps	17.15	17.25	20.21	30.00	-9.79	3.66	23.87	36.02	-12.15
2422	3	6Mbps	18.44	18.25	21.36	30.00	-8.64	3.66	25.02	36.02	-11.00
2427	4	6Mbps	19.82	19.71	22.78	30.00	-7.22	3.66	26.44	36.02	-9.58
2432	5	6Mbps	20.95	20.85	23.91	30.00	-6.09	3.66	27.57	36.02	-8.45
2437	6	6Mbps	21.46	21.43	24.46	30.00	-5.54	3.66	28.12	36.02	-7.90
2442	7	6Mbps	21.45	21.48	24.48	30.00	-5.52	3.66	28.14	36.02	-7.88
2447	8	18Mbps	19.57	19.72	22.66	30.00	-7.34	3.66	26.32	36.02	-9.70
2452	9	6Mbps	18.91	18.95	21.94	30.00	-8.06	3.66	25.60	36.02	-10.42
2457	10	6Mbps	18.16	18.13	21.16	30.00	-8.84	3.66	24.82	36.02	-11.20
2462	11	6Mbps	16.49	16.31	19.41	30.00	-10.59	3.66	23.07	36.02	-12.95
2467	12	6Mbps	14.41	14.25	17.34	30.00	-12.66	3.66	21.00	36.02	-15.02
2472	13	6Mbps	7.79	7.86	10.84	30.00	-19.16	3.66	14.50	36.02	-21.52

Table 7-15. Average Conducted Output Power Measurements CDD (802.11g)

Freq [MHz]	Channel	Data Rate	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
			Antenna WF8	Antenna WF7b	Summed						
2412	1	MCS5	14.19	14.09	17.15	30.00	-12.85	3.66	20.81	36.02	-15.21
2417	2	MCS0	17.06	17.14	20.11	30.00	-9.89	3.66	23.77	36.02	-12.25
2422	3	MCS0	18.28	18.12	21.21	30.00	-8.79	3.66	24.87	36.02	-11.15
2427	4	MCS0	19.68	19.81	22.75	30.00	-7.25	3.66	26.41	36.02	-9.61
2432	5	MCS0	20.82	20.75	23.79	30.00	-6.21	3.66	27.45	36.02	-8.57
2437	6	MCS5	21.40	21.37	24.40	30.00	-5.60	3.66	28.06	36.02	-7.96
2442	7	MCS3	21.36	21.43	24.41	30.00	-5.59	3.66	28.07	36.02	-7.95
2447	8	MCS5	19.59	19.68	22.64	30.00	-7.36	3.66	26.30	36.02	-9.72
2452	9	MCS0	18.85	18.89	21.88	30.00	-8.12	3.66	25.54	36.02	-10.48
2457	10	MCS0	18.29	18.10	21.21	30.00	-8.79	3.66	24.87	36.02	-11.15
2462	11	MCS0	16.35	16.27	19.32	30.00	-10.68	3.66	22.98	36.02	-13.04
2467	12	MCS0	14.36	14.16	17.27	30.00	-12.73	3.66	20.93	36.02	-15.09
2472	13	MCS0	7.90	7.83	10.88	30.00	-19.12	3.66	14.54	36.02	-21.48

Table 7-16. Average Conducted Output Power Measurements CDD (802.11n)

FCC ID: BCGA3459 IC: 579C-A3459	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2509100079-05-R3.BCG	Test Dates: 09/15/2025 - 11/13/2025	EUT Type: Tablet Device	Page 37 of 179

V 11.0 5/2025

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Freq [MHz]	Channel	Data Rate	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
			Antenna WF8	Antenna WF7b	Summed						
2412	1	MCS3	14.11	14.17	17.15	30.00	-12.85	3.66	20.81	36.02	-15.21
2417	2	MCS0	17.20	17.13	20.17	30.00	-9.83	3.66	23.83	36.02	-12.19
2422	3	MCS0	18.32	18.17	21.25	30.00	-8.75	3.66	24.91	36.02	-11.11
2427	4	MCS3	19.70	19.56	22.64	30.00	-7.36	3.66	26.30	36.02	-9.72
2432	5	MCS0	20.18	20.34	23.27	30.00	-6.73	3.66	26.93	36.02	-9.09
2437	6	MCS3	21.30	21.44	24.38	30.00	-5.62	3.66	28.04	36.02	-7.98
2442	7	MCS3	20.57	20.56	23.58	30.00	-6.42	3.66	27.24	36.02	-8.78
2447	8	MCS0	19.21	19.40	22.32	30.00	-7.68	3.66	25.98	36.02	-10.04
2452	9	MCS0	18.30	18.35	21.34	30.00	-8.66	3.66	25.00	36.02	-11.02
2457	10	MCS0	17.05	17.29	20.18	30.00	-9.82	3.66	23.84	36.02	-12.18
2462	11	MCS0	16.25	16.18	19.23	30.00	-10.77	3.66	22.89	36.02	-13.13
2467	12	MCS0	13.81	13.96	16.90	30.00	-13.10	3.66	20.56	36.02	-15.46
2472	13	MCS3	5.77	5.66	8.72	30.00	-21.28	3.66	12.38	36.02	-23.64

Table 7-17. Average Conducted Output Power Measurements CDD (802.11be-SU)

FCC ID: BCGA3459 IC: 579C-A3459	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2509100079-05-R3.BCG	Test Dates: 09/15/2025 - 11/13/2025	EUT Type: Tablet Device	Page 38 of 179

V 11.0 5/2025

Note:

Per ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024 and KDB 662911 D01 v02r01 Section E)1), the conducted powers at Antenna WF8 and Antenna WF7b were first measured separately during TxBF transmission as shown in the section above. The measured values were then summed in linear power units then converted back to dBm.

Per ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024 Section 14.6.3, the directional gain is calculated using the following formula, where G_N is the gain of the nth antenna and N_{ANT} , the total number of antennas used.

$$\text{Directional gain} = 10 \log[(10^{G_1/20} + 10^{G_2/20} + \dots + 10^{G_N/20})^2 / N_{ANT}] \text{ dBi}$$

Sample TxBF Calculation:

At 2412MHz the average conducted output power was measured to be 21.66 dBm for Antenna WF8 and 21.62 dBm for Antenna WF7b.

$$\text{Antenna WF8} + \text{Antenna WF7b} = \text{TxBF}$$

$$(21.66 \text{ dBm} + 21.62 \text{ dBm}) = (146.555 \text{ mW} + 145.211 \text{ mW}) = 291.766 \text{ mW} = 24.65 \text{ dBm}$$

Sample e.i.r.p. Calculation:

At 2412MHz, the average conducted output power was calculated to be 24.65 dBm with directional gain of 3.66 dBi.

$$\begin{aligned} \text{e.i.r.p. (dBm)} &= \text{Conducted Power (dBm)} + \text{Ant gain (dBi)} \\ 24.65 \text{ dBm} + 3.66 \text{ dBi} &= 28.31 \text{ dBm} \end{aligned}$$

FCC ID: BCGA3459 IC: 579C-A3459	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2509100079-05-R3.BCG	Test Dates: 09/15/2025 - 11/13/2025	EUT Type: Tablet Device	Page 39 of 179

7.5 Power Spectral Density

§15.247(e); RSS-247 [6.3.1(b)]

Test Overview and Limit

The power spectral density is measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates were investigated and the worst case configuration results are reported in this section.

The maximum permissible power spectral density is 8 dBm in any 3 kHz band.

Test Procedure Used

ANSI C63.10:2020 + COR. 1:2023 + C63.10A:2024 + ERRATA TO C63.10A:2024 – Subclause 11.10.3 & 11.10.5 Method AVGPS-1 & AVGPS-2

KDB 558074 D01 v05r02 – Section 8.4 DTS Maximum Power Spectral Density level in the fundamental emission

ANSI C63.10:2020 + COR. 1:2023 + C63.10A:2024 + ERRATA TO C63.10A:2024 – Subclause 14.5.2.2 Measure-and-Sum Technique

KDB 662911 D01 v02r01 – Section E)2) Measure-and-Sum Technique

Test Settings

1. Analyzer was set to the center frequency of the DTS channel under investigation
2. Span > 1.5 times the OBW
3. RBW = 3kHz
4. VBW $\geq 3 \times$ RBW
5. Detector = power averaging (rms)
6. Number of sweep points $\geq 2 \times$ (span/RBW)
7. Sweep time = auto couple
8. Employ trace averaging (rms) mode over a minimum of 100 traces
9. Use the peak marker function to determine the maximum amplitude level

Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.



Figure 7-4. Test Instrument & Measurement Setup

Test Notes

1. All data rates and channels were investigated, and tabular data has been reported. Only the worst-case plot was reported.
2. The duty cycle correction factor (DCCF) has been applied as an amplitude offset in the spectrum analyzer to ensure the required correction is accurately reflected in the measured Power Spectral Density (PSD). The offset value is indicated on each PSD plot.

FCC ID: BCGA3459 IC: 579C-A3459		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100079-05-R3.BCG	Test Dates: 09/15/2025 - 11/13/2025	EUT Type: Tablet Device	Page 40 of 179

V 11.0 5/2025

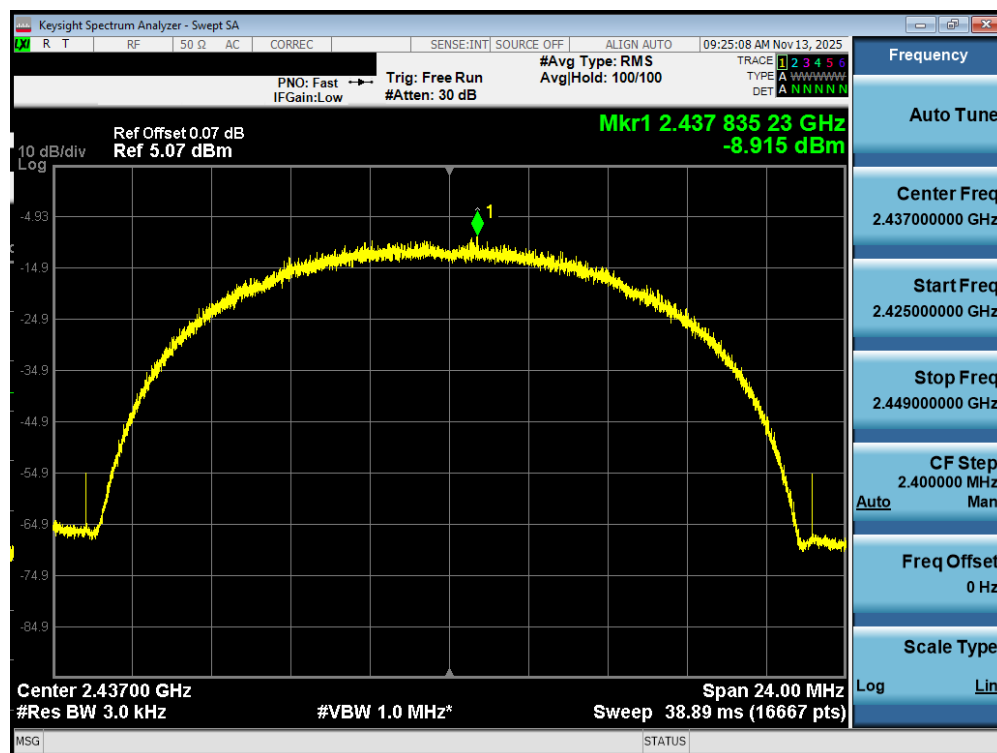
7.5.1 Antenna WF8 Power Spectral Density Measurements

Frequency [MHz]	Channel No.	802.11 MODE	Data Rate	Measured Power Density [dBm/3kHz]	Max Power Density [dBm/3kHz]	Margin [dB]	Pass/Fail
2412	1	b	11Mbps	-9.85	8.00	-17.85	Pass
2437	6	b	11Mbps	-8.92	8.00	-16.92	Pass
2462	11	b	11Mbps	-8.95	8.00	-16.95	Pass
2412	1	g	18Mbps	-18.71	8.00	-26.71	Pass
2437	6	g	18Mbps	-11.55	8.00	-19.55	Pass
2462	11	g	18Mbps	-16.80	8.00	-24.80	Pass
2412	1	n	MCS3	-18.45	8.00	-26.45	Pass
2437	6	n	MCS0	-11.68	8.00	-19.68	Pass
2462	11	n	MCS3	-16.78	8.00	-24.78	Pass
2412	1	be (SU)	MCS5	-19.12	8.00	-27.12	Pass
2437	6	be (SU)	MCS3	-12.07	8.00	-20.07	Pass
2462	11	be (SU)	MCS0	-16.98	8.00	-24.98	Pass

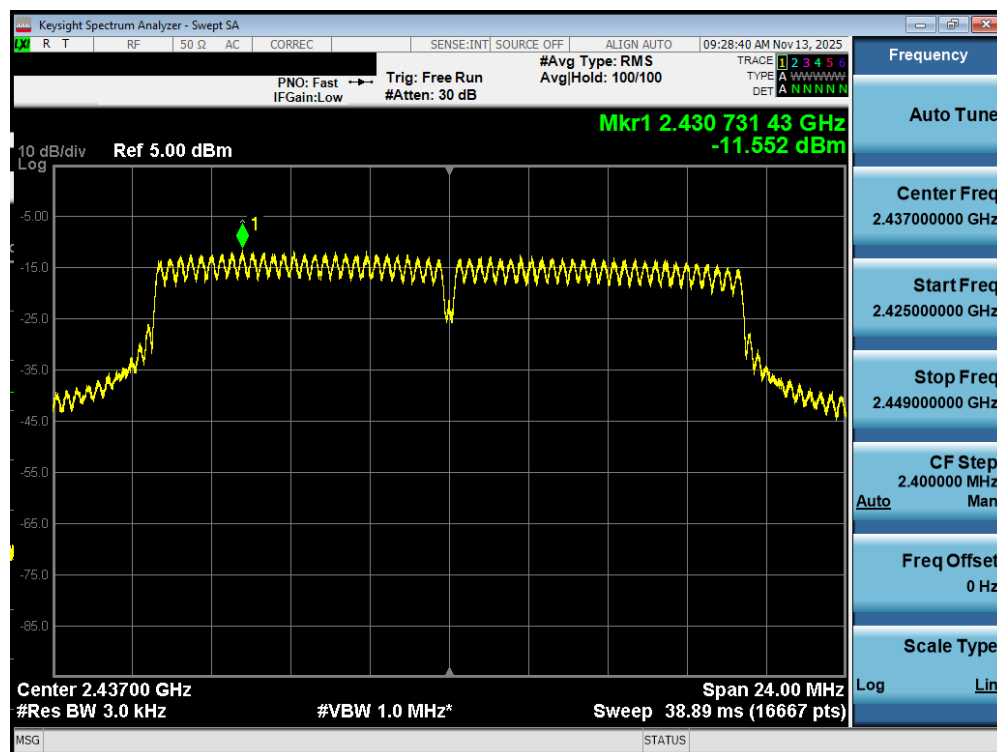
Table 7-18. Conducted Power Density Measurements Antenna WF8

FCC ID: BCGA3459 IC: 579C-A3459		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100079-05-R3.BCG	Test Dates: 09/15/2025 - 11/13/2025	EUT Type: Tablet Device	Page 41 of 179

V 11.0 5/2025

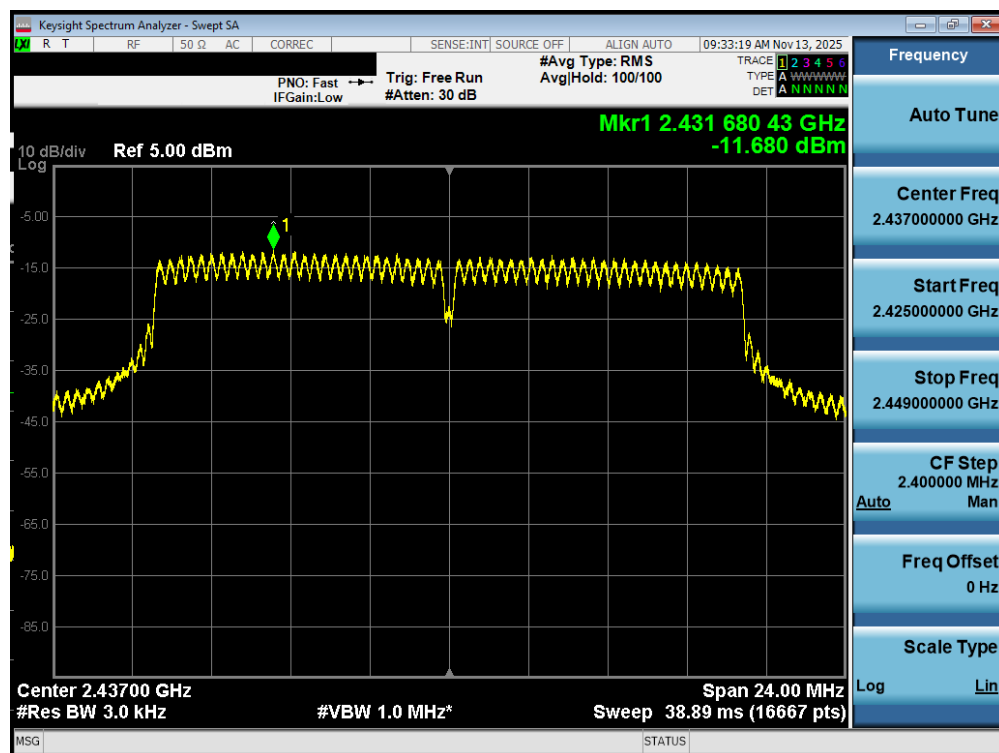


Plot 7-17 PSD Antenna WF8 (20MHz BW 802.11b - Ch.6)

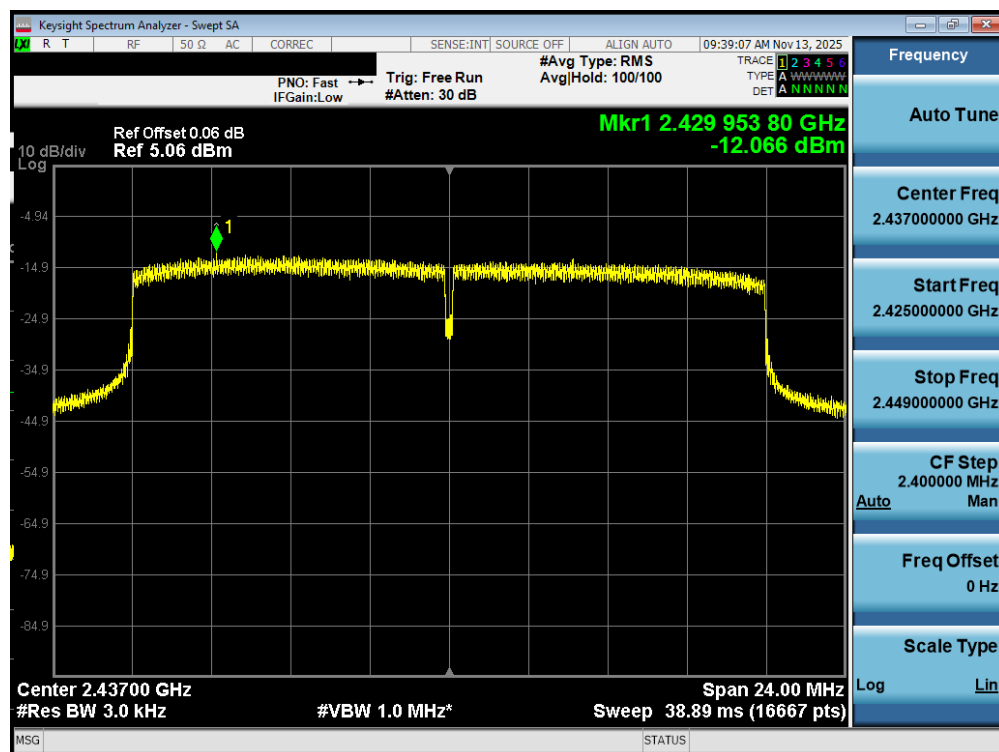


Plot 7-18 PSD Antenna WF8 (20MHz BW 802.11g - Ch.6)

FCC ID: BCGA3459 IC: 579C-A3459		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100079-05-R3.BCG	Test Dates: 09/15/2025 - 11/13/2025	EUT Type: Tablet Device	Page 42 of 179



Plot 7-19 PSD Antenna WF8 (20MHz BW 802.11n - Ch.6)



Plot 7-20 PSD Antenna WF8 (20MHz BW 802.11be(SU) - Ch.6)

FCC ID: BCGA3459 IC: 579C-A3459		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100079-05-R3.BCG	Test Dates: 09/15/2025 - 11/13/2025	EUT Type: Tablet Device	Page 43 of 179

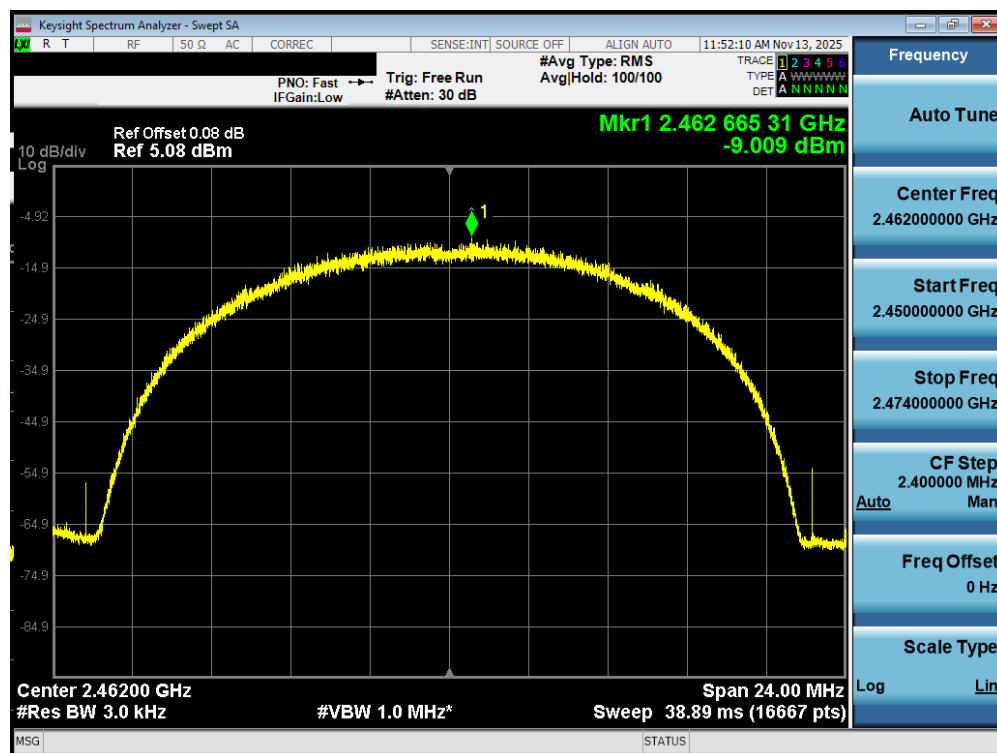
7.5.2 Antenna WF7b Power Spectral Density Measurements

Frequency [MHz]	Channel No.	802.11 MODE	Data Rate	Measured Power Density [dBm/3kHz]	Max Power Density [dBm/3kHz]	Margin [dB]	Pass/Fail
2412	1	b	11Mbps	-9.51	8.00	-17.51	Pass
2437	6	b	11Mbps	-9.37	8.00	-17.37	Pass
2462	11	b	11Mbps	-9.01	8.00	-17.01	Pass
2412	1	g	6Mbps	-18.19	8.00	-26.19	Pass
2437	6	g	36Mbps	-11.98	8.00	-19.98	Pass
2462	11	g	6Mbps	-16.37	8.00	-24.37	Pass
2412	1	n	MCS0	-18.12	8.00	-26.12	Pass
2437	6	n	MCS5	-11.23	8.00	-19.23	Pass
2462	11	n	MCS0	-16.18	8.00	-24.18	Pass
2412	1	be (SU)	MCS3	-19.10	8.00	-27.10	Pass
2437	6	be (SU)	MCS5	-12.57	8.00	-20.57	Pass
2462	11	be (SU)	MCS0	-16.15	8.00	-24.15	Pass

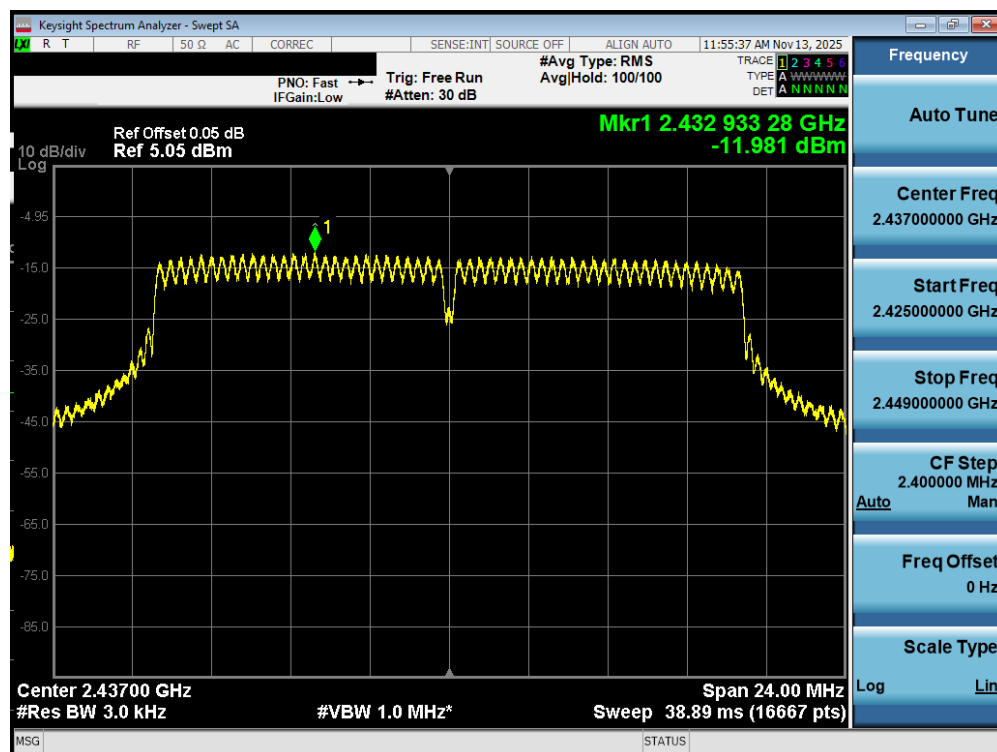
Table 7-19. Conducted Power Density Measurements Antenna Antenna WF7b

FCC ID: BCGA3459 IC: 579C-A3459		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100079-05-R3.BCG	Test Dates: 09/15/2025 - 11/13/2025	EUT Type: Tablet Device	Page 44 of 179

V 11.0 5/2025

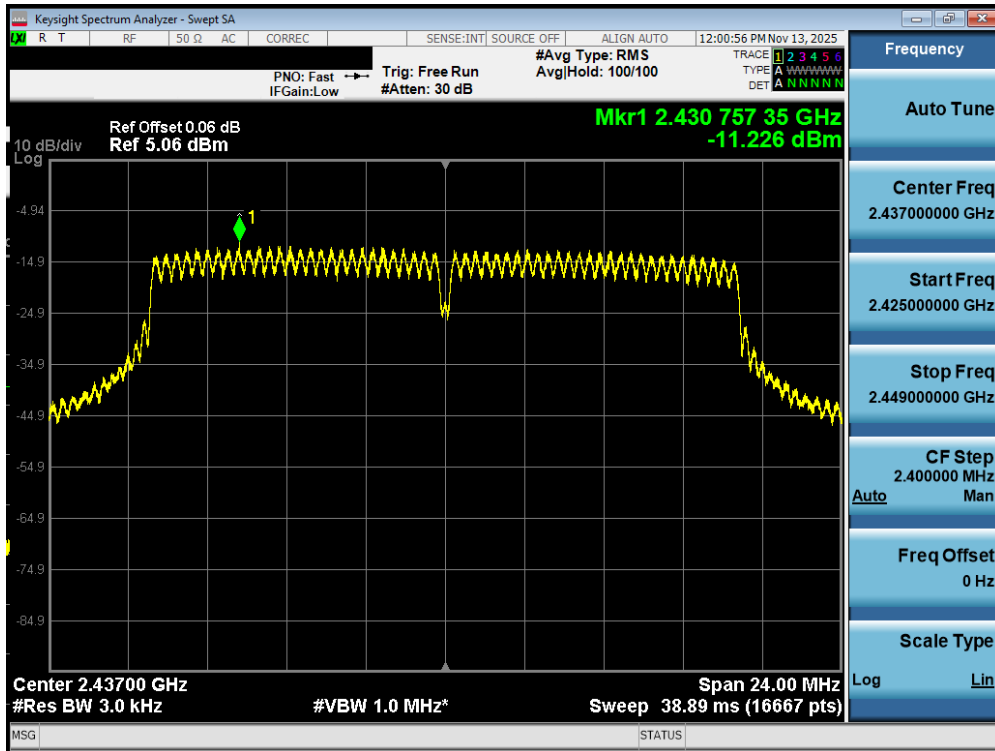


Plot 7-21 PSD Antenna WF7b (20MHz BW 802.11b - Ch.11)

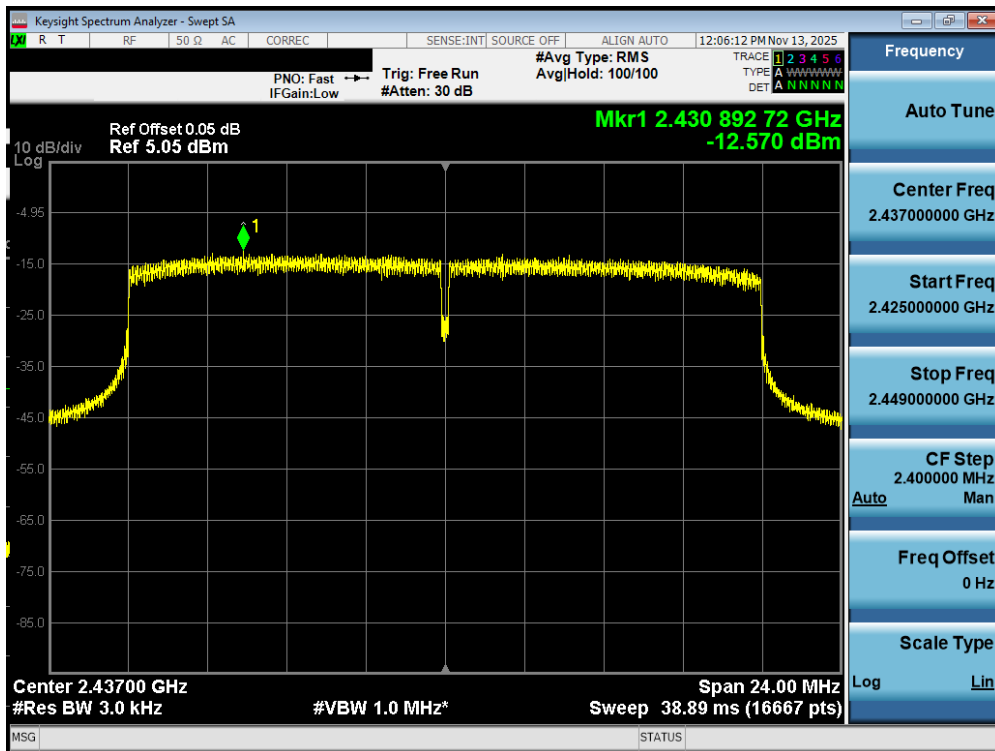


Plot 7-22 PSD Antenna WF7b (20MHz BW 802.11g - Ch.6)

FCC ID: BCGA3459 IC: 579C-A3459		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100079-05-R3.BCG	Test Dates: 09/15/2025 - 11/13/2025	EUT Type: Tablet Device	Page 45 of 179



Plot 7-23 PSD Antenna WF7b (20MHz BW 802.11n - Ch.6)



Plot 7-24 PSD Antenna WF7b (20MHz BW 802.11be(SU) - Ch.6)

FCC ID: BCGA3459 IC: 579C-A3459		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100079-05-R3.BCG	Test Dates: 09/15/2025 - 11/13/2025	EUT Type: Tablet Device	Page 46 of 179

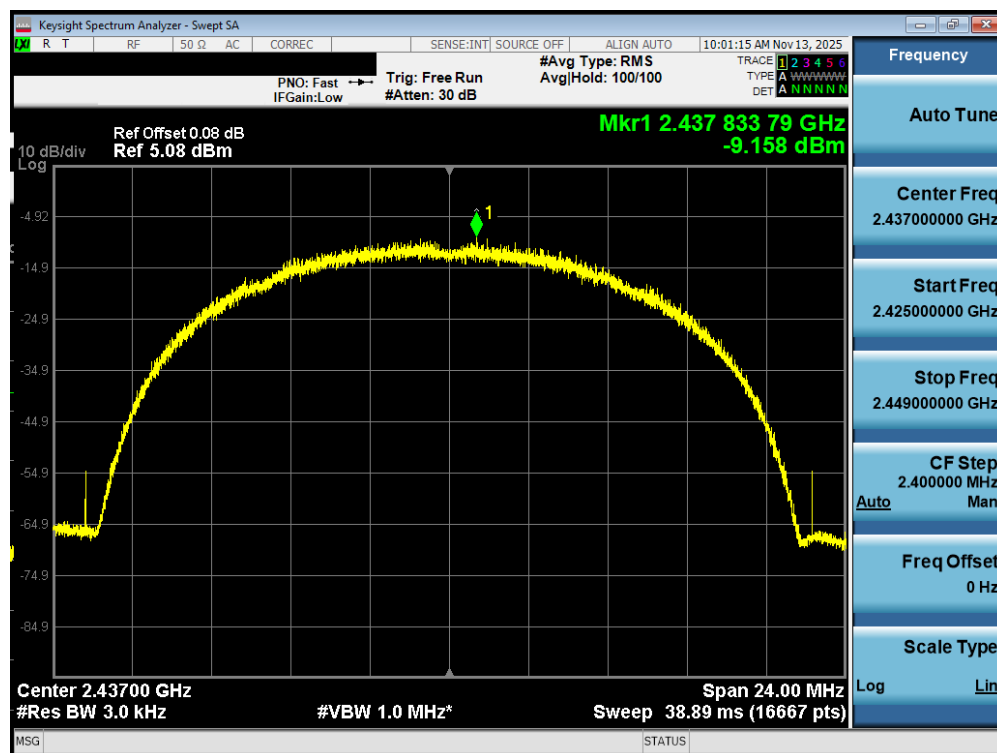
7.5.3 CDD Power Spectral Density Measurements

Frequency [MHz]	Channel No.	802.11 MODE	Mode	Data Rate	Antenna WF8 Power Density [dBm/3kHz]	Antenna WF7b Power Density [dBm/3kHz]	Summed Power Density [dBm/3kHz]	Max Power Density [dBm/3kHz]	Margin [dB]	Pass/Fail
2412	1	b	CDD	11Mbps	-9.33	-9.97	-6.62	8.00	-14.62	Pass
2437	6	b	CDD	11Mbps	-9.16	-9.48	-6.31	8.00	-14.31	Pass
2462	11	b	CDD	11Mbps	-9.59	-9.06	-6.31	8.00	-14.31	Pass
2412	1	g	CDD	6Mbps	-19.76	-19.76	-16.58	8.00	-24.58	Pass
2437	6	g	CDD	6Mbps	-12.12	-12.23	-9.17	8.00	-17.17	Pass
2462	11	g	CDD	6Mbps	-17.27	-17.64	-14.44	8.00	-22.44	Pass
2412	1	n	CDD	MCS5	-19.32	-19.92	-16.58	8.00	-24.58	Pass
2437	6	n	CDD	MCS5	-12.18	-12.02	-9.07	8.00	-17.07	Pass
2462	11	n	CDD	MCS0	-17.40	-17.43	-14.44	8.00	-22.44	Pass
2412	1	be (SU)	CDD	MCS0	-20.47	-20.67	-17.45	8.00	-25.45	Pass
2437	6	be (SU)	CDD	MCS3	-12.73	-12.66	-9.71	8.00	-17.71	Pass
2462	11	be (SU)	CDD	MCS0	-17.85	-18.15	-15.09	8.00	-23.09	Pass

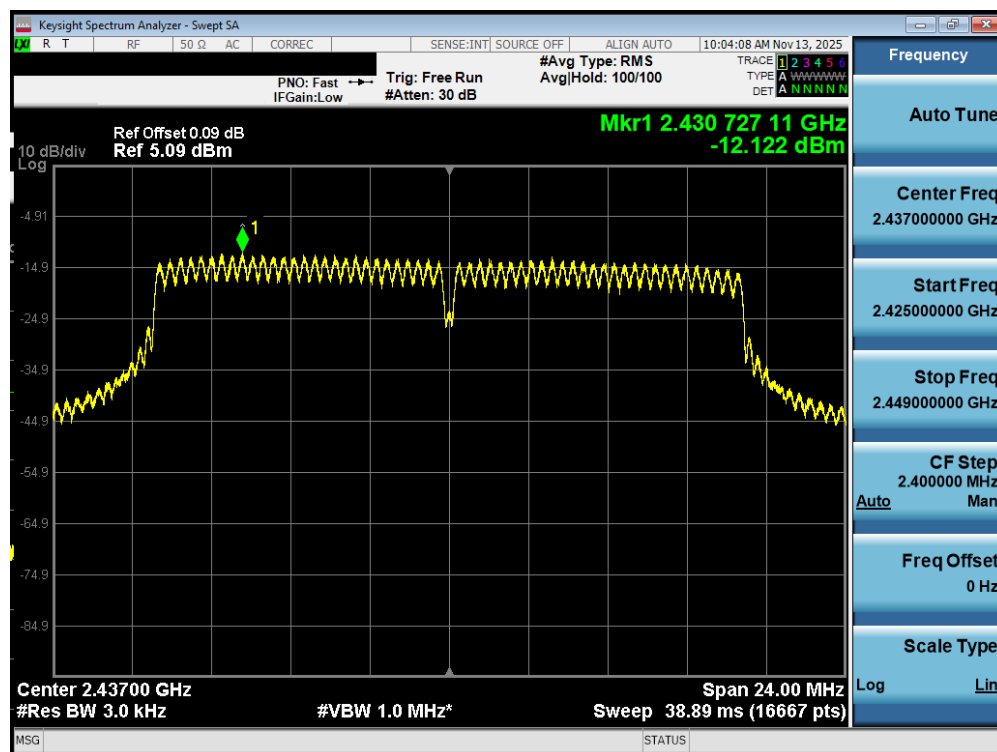
Table 7-20.CDD Conducted Power Density Measurements

FCC ID: BCGA3459 IC: 579C-A3459		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100079-05-R3.BCG	Test Dates: 09/15/2025 - 11/13/2025	EUT Type: Tablet Device	Page 47 of 179

V 11.0 5/2025



Plot 7-25 PSD CDD Antenna WF8 (20MHz BW 802.11b - Ch.6)

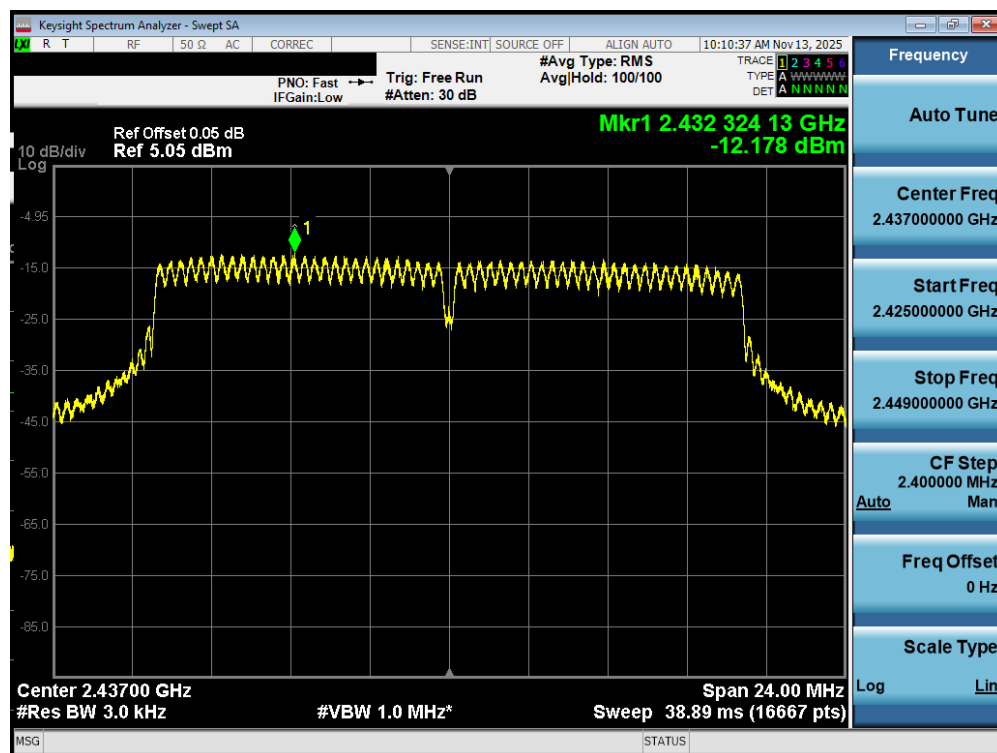


Plot 7-26 PSD CDD Antenna WF8 (20MHz BW 802.11g - Ch.6)

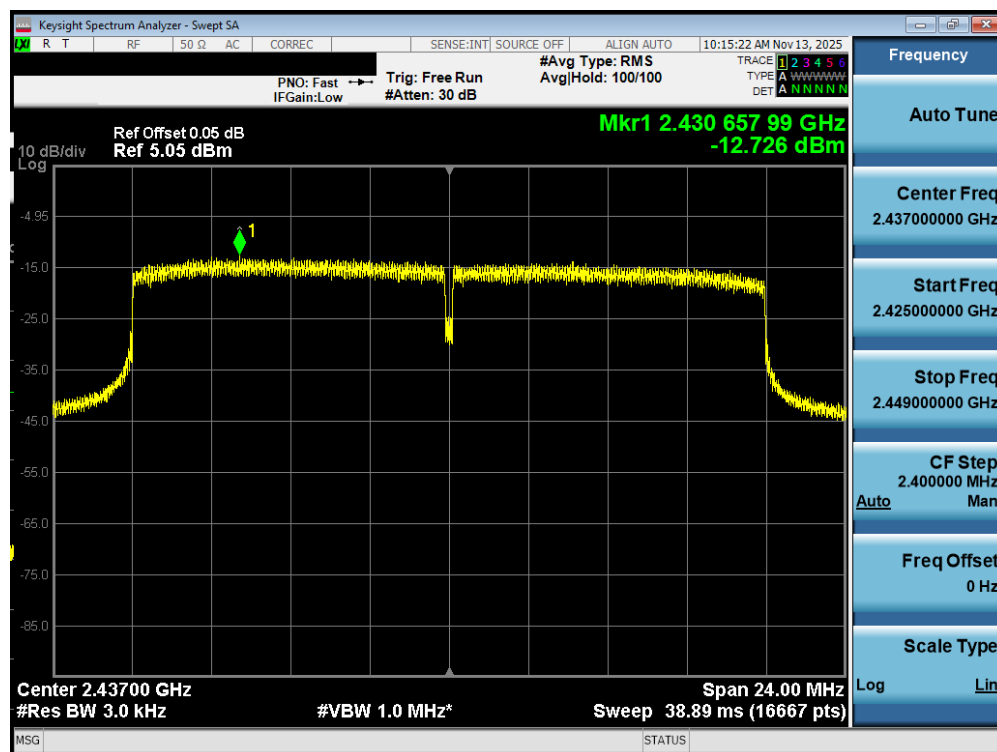
FCC ID: BCGA3459 IC: 579C-A3459		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100079-05-R3.BCG	Test Dates: 09/15/2025 - 11/13/2025	EUT Type: Tablet Device	Page 48 of 179

V 11.0 5/2025

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Plot 7-27 PSD CDD Antenna WF8 (20MHz BW 802.11n - Ch.6)

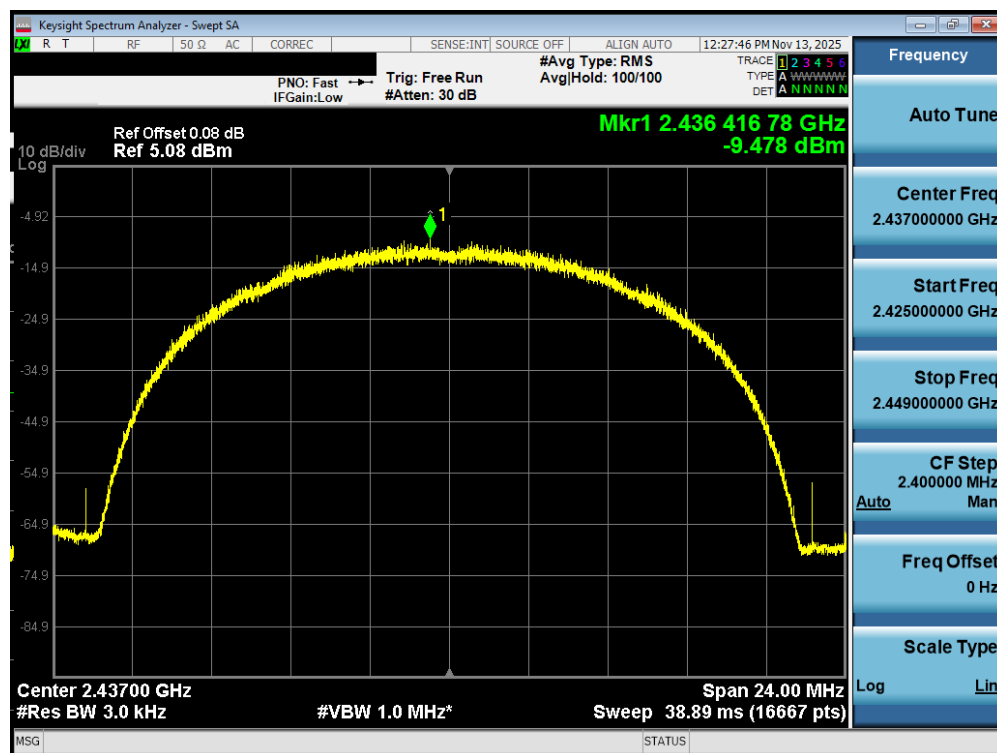


Plot 7-28 PSD CDD Antenna WF8 (20MHz BW 802.11be(SU) - Ch.6)

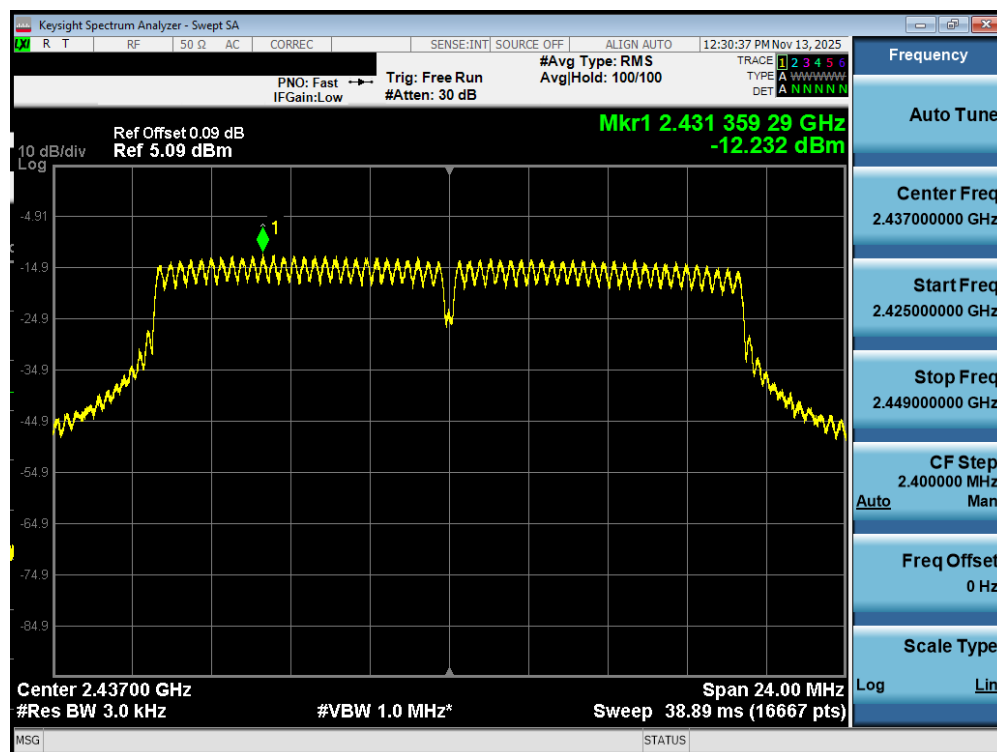
FCC ID: BCGA3459 IC: 579C-A3459		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100079-05-R3.BCG	Test Dates: 09/15/2025 - 11/13/2025	EUT Type: Tablet Device	Page 49 of 179

V 11.0 5/2025

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Plot 7-29 PSD CDD Antenna WF7b (20MHz BW 802.11b - Ch.6)

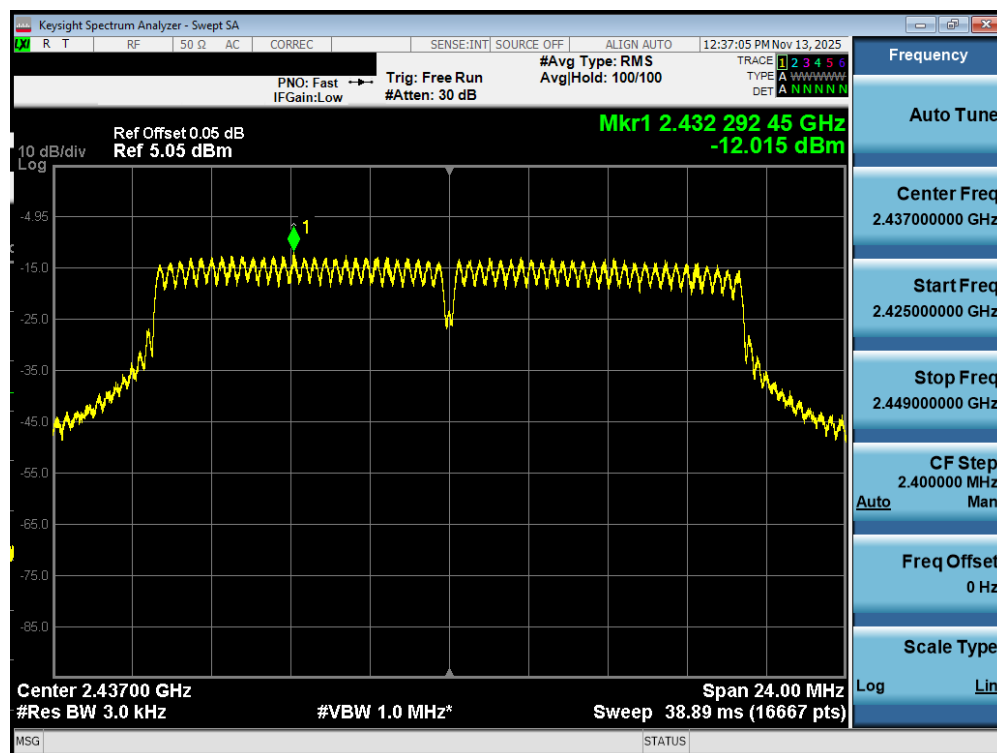


Plot 7-30 PSD CDD Antenna WF7b (20MHz BW 802.11g - Ch.6)

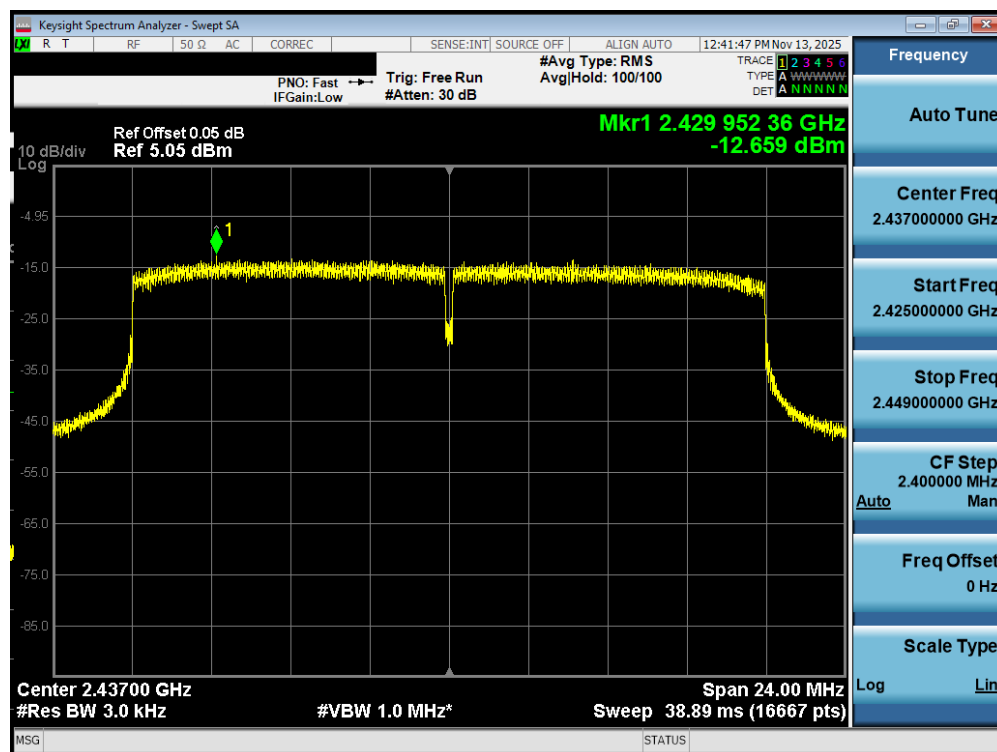
FCC ID: BCGA3459 IC: 579C-A3459		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100079-05-R3.BCG	Test Dates: 09/15/2025 - 11/13/2025	EUT Type: Tablet Device	Page 50 of 179

V 11.0 5/2025

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Plot 7-31 PSD CDD Antenna WF7b (20MHz BW 802.11n - Ch.6)



Plot 7-32 PSD CDD Antenna WF7b (20MHz BW 802.11be(SU) - Ch.6)

FCC ID: BCGA3459 IC: 579C-A3459	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2509100079-05-R3.BCG	Test Dates: 09/15/2025 - 11/13/2025	EUT Type: Tablet Device	Page 51 of 179

V 11.0 5/2025

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Note:

Per ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024 and KDB 662911 D01 v02r01 Section E)2), the power spectral density at Antenna WF8 and Antenna WF7b were first measured separately during TxBF transmission as shown in the section above. The measured values were then summed in linear power units then converted back to dBm.

Per ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024 Section 14.6.3, the directional gain is calculated using the following formula, where G_N is the gain of the nth antenna and N_{ANT} , the total number of antennas used.

$$\text{Directional gain} = 10 \log[(10^{G_1/20} + 10^{G_2/20} + \dots + 10^{G_N/20})^2 / N_{ANT}] \text{ dBi}$$

Sample TxBF Calculation:

At 2412MHz the average conducted power spectral density was measured to be -9.33 dBm for Antenna WF8 and -9.97 dBm for Antenna WF7b.

$$\text{Antenna WF8} + \text{Antenna WF7b} = \text{TxBF}$$

$$(-9.33 \text{ dBm} + -9.97 \text{ dBm}) = (0.117 \text{ mW} + 0.101 \text{ mW}) = 0.218 \text{ mW} = -6.62 \text{ dBm}$$

FCC ID: BCGA3459 IC: 579C-A3459	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2509100079-05-R3.BCG	Test Dates: 09/15/2025 - 11/13/2025	EUT Type: Tablet Device	Page 52 of 179

V 11.0 5/2025

7.6 Conducted Authorized Band Edge

§15.247(d); RSS-247 [6.6]

Test Overview and Limit

All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst case configuration. For the following out of band conducted spurious emissions plots at the band edge, the EUT was set at a data rate of 11Mbps for “b” mode, 36Mbps for “g” mode, MCS5 for “n” mode, and MCS5 for “be-SU” mode as these settings produced the worst-case emissions.

The limit for out-of-band spurious emissions at the band edge is 20dB below the fundamental emission level, as determined from the in-band power measurement of the DTS channel performed in a 100kHz bandwidth per the PSD procedure (Section 7.5).

Test Procedure Used

ANSI C63.10:2020 + COR. 1:2023 + C63.10A:2024 + ERRATA TO C63.10A:2024 – Subclause 11.11.3
KDB 558074 D01 v05r02 – Section 8.7.2

Test Settings

1. Start and stop frequency were set such that the band edge would be placed in the center of the plot
2. Span was set large enough so as to capture all out of band emissions near the band edge
3. RBW = 100kHz
4. VBW $\geq 3 \times$ RBW
5. Detector = Peak
6. Number of sweep points $\geq 2 \times$ Span/RBW
7. Trace mode = Max hold
8. Sweep time = auto couple
9. The trace was allowed to stabilize

Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.



Figure 7-5. Test Instrument & Measurement Setup

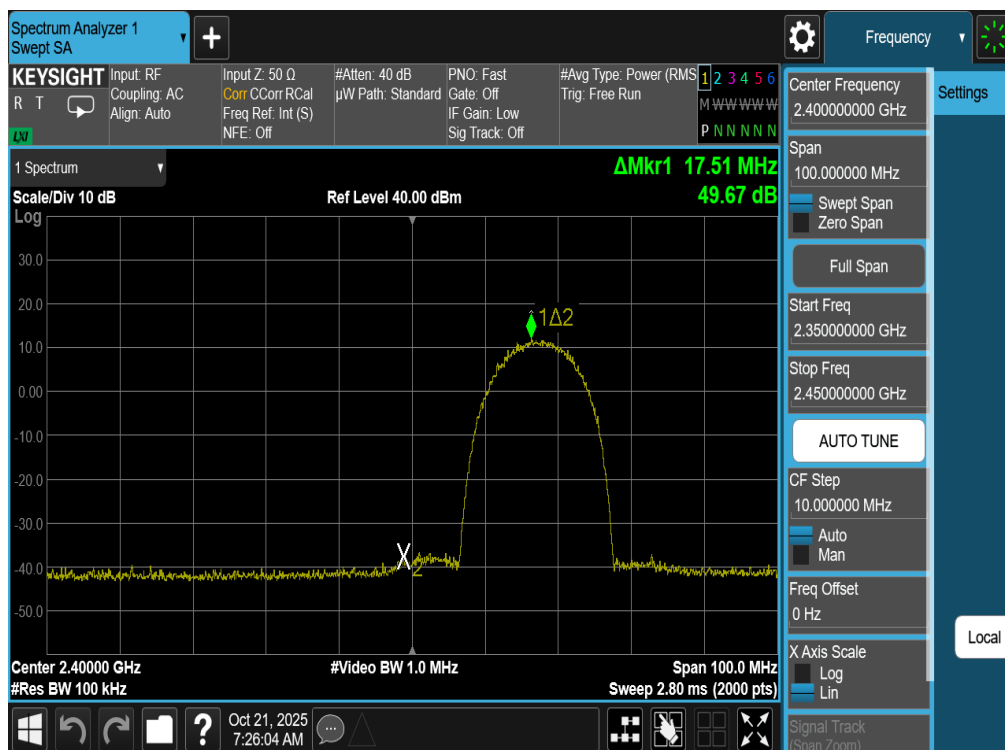
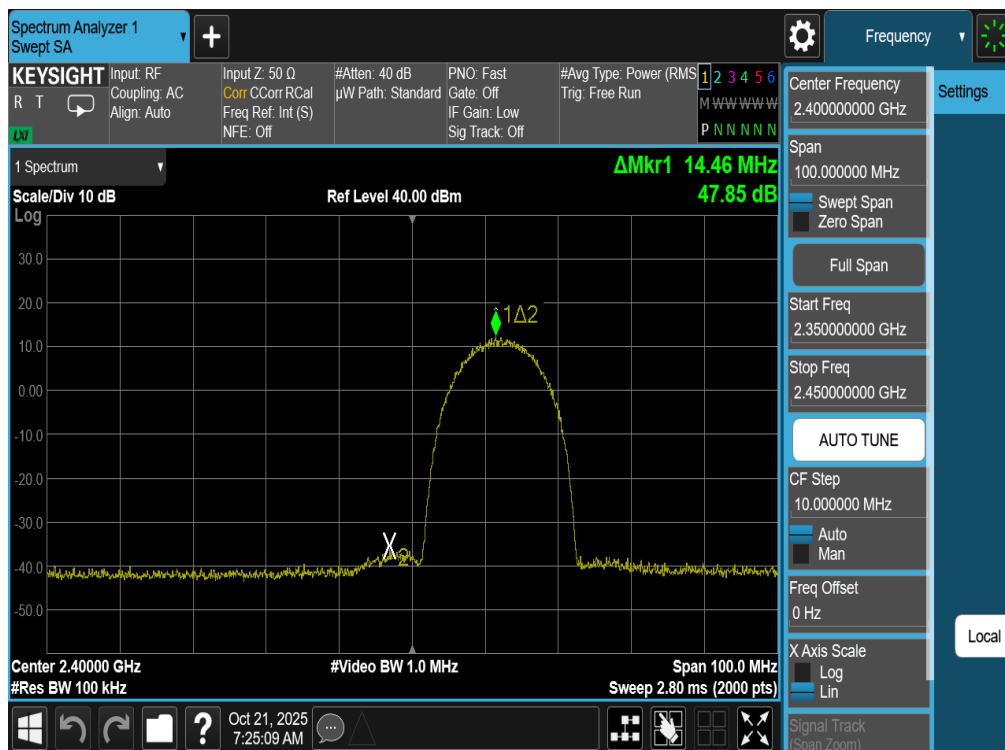
Test Notes

1. All antenna configurations were investigated and only the worst case is reported.
2. All data rates have been investigated and only the worst case data rate is reported.

FCC ID: BCGA3459 IC: 579C-A3459	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2509100079-05-R3.BCG	Test Dates: 09/15/2025 - 11/13/2025	EUT Type: Tablet Device	Page 53 of 179

V 11.0 5/2025

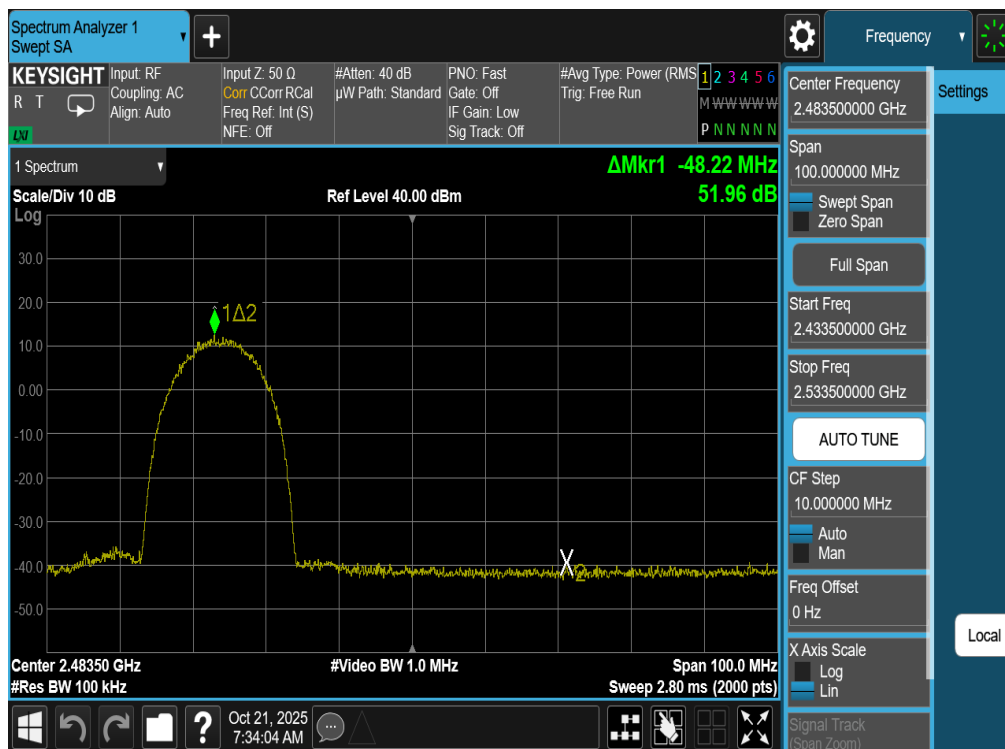
7.6.1 Antenna WF8 Conducted Emissions at the Band Edge



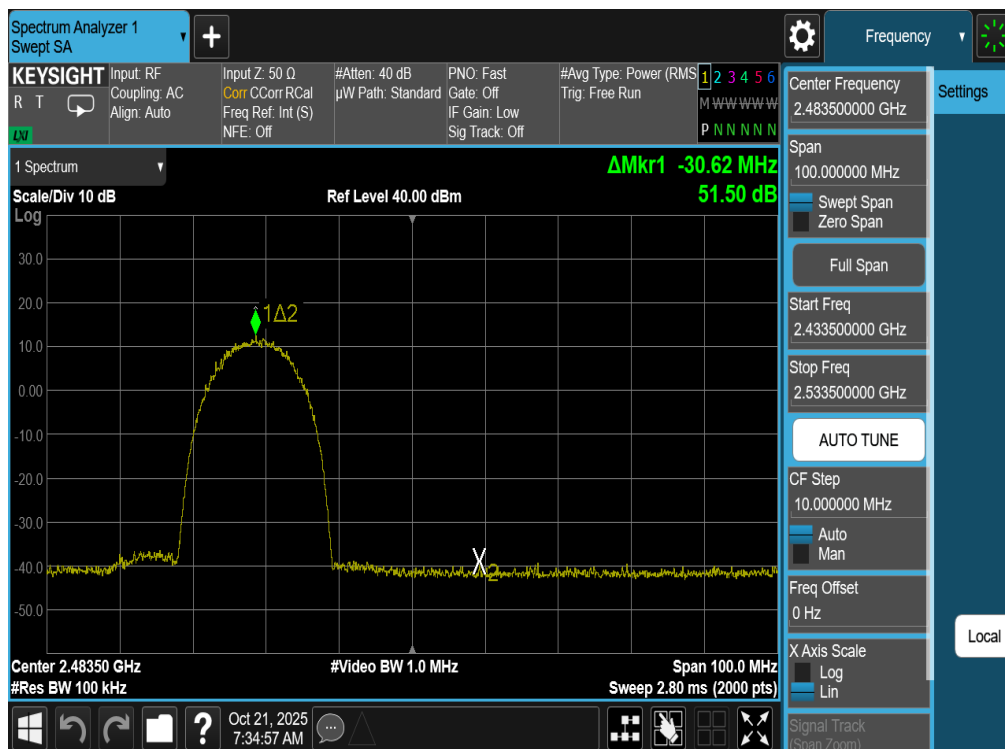
FCC ID: BCGA3459 IC: 579C-A3459		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100079-05-R3.BCG	Test Dates: 09/15/2025 - 11/13/2025	EUT Type: Tablet Device	Page 54 of 179

V 11.0 5/2025

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Plot 7-35. Band Edge Plot Antenna WF8 (802.11b – Ch. 10)

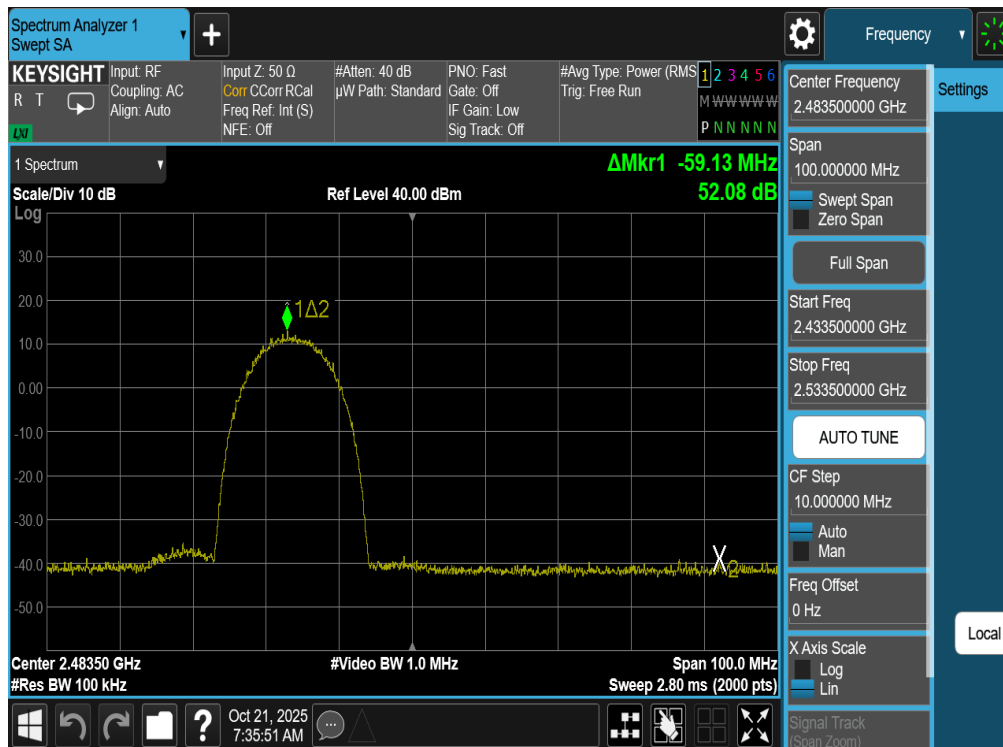


Plot 7-36. Band Edge Plot Antenna WF8 (802.11b – Ch. 11)

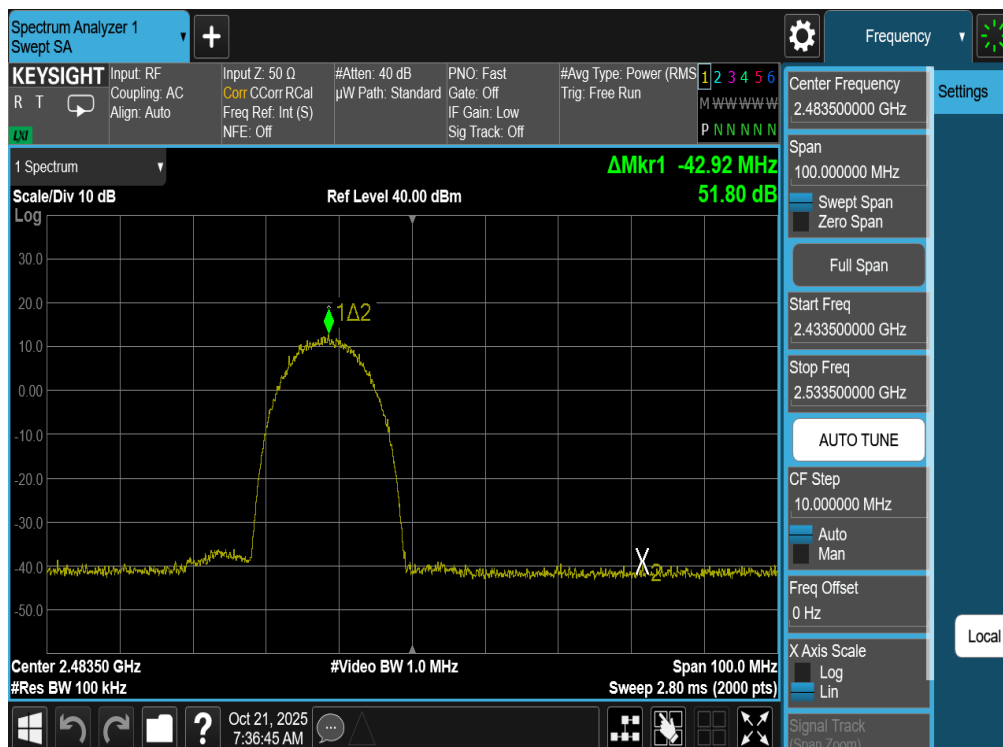
FCC ID: BCGA3459 IC: 579C-A3459		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100079-05-R3.BCG	Test Dates: 09/15/2025 - 11/13/2025	EUT Type: Tablet Device	Page 55 of 179

V 11.0 5/2025

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Plot 7-37. Band Edge Plot Antenna WF8 (802.11b – Ch. 12)

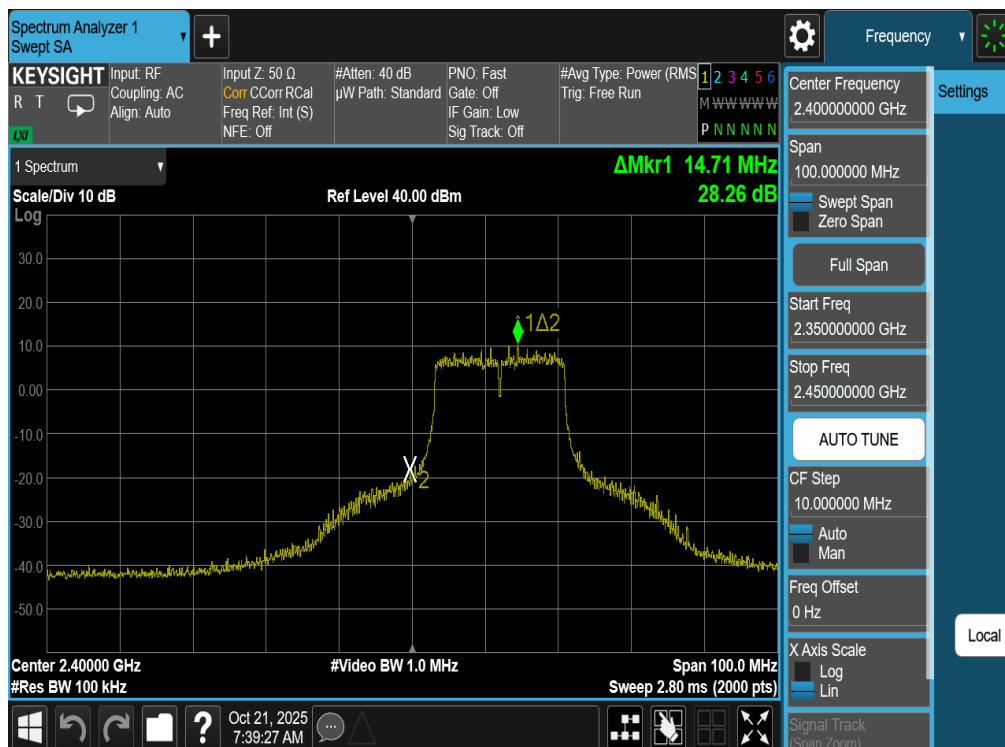


Plot 7-38. Band Edge Plot Antenna WF8 (802.11b – Ch. 13)

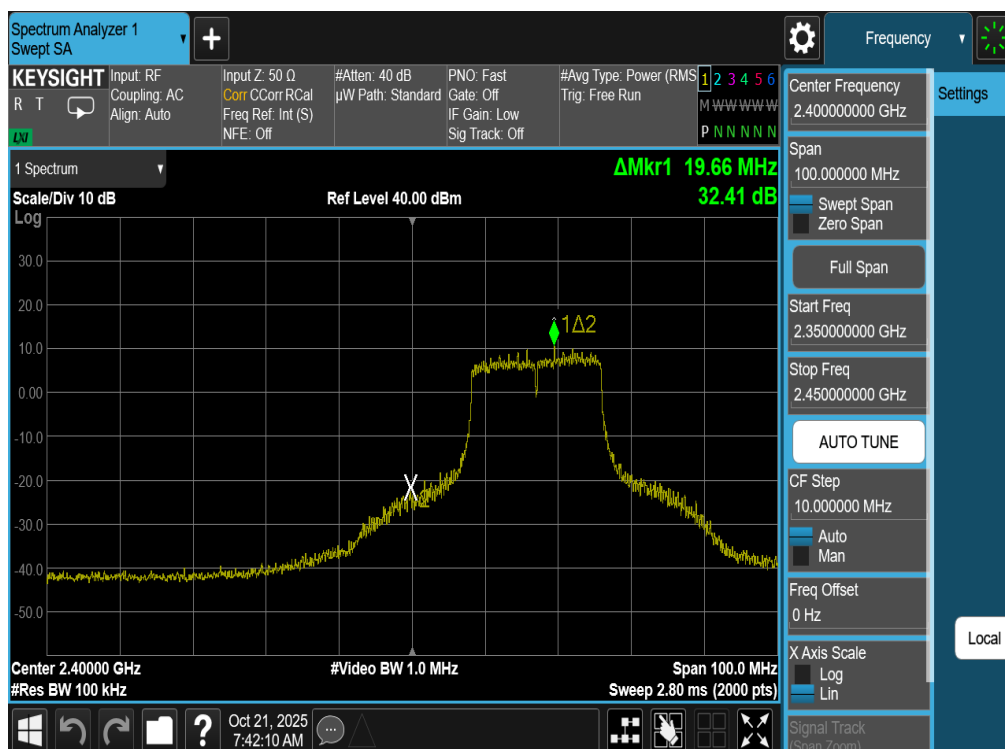
FCC ID: BCGA3459 IC: 579C-A3459		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100079-05-R3.BCG	Test Dates: 09/15/2025 - 11/13/2025	EUT Type: Tablet Device	Page 56 of 179

V 11.0 5/2025

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Plot 7-39. Band Edge Plot Antenna WF8 (802.11g – Ch. 1)

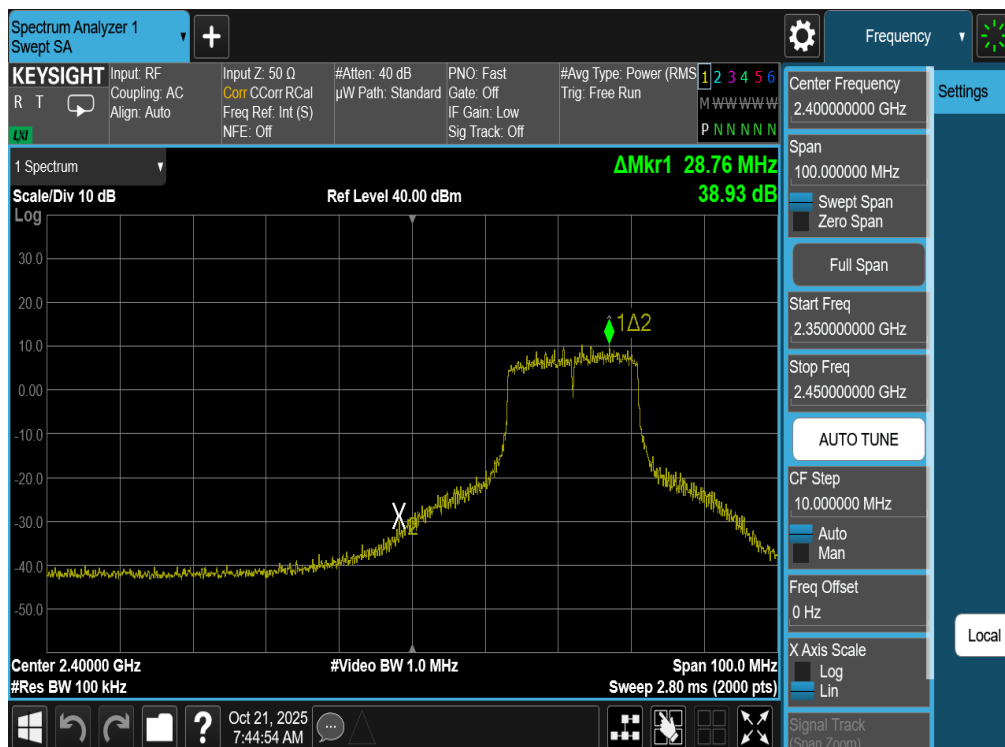


Plot 7-40. Band Edge Plot Antenna WF8 (802.11g – Ch. 2)

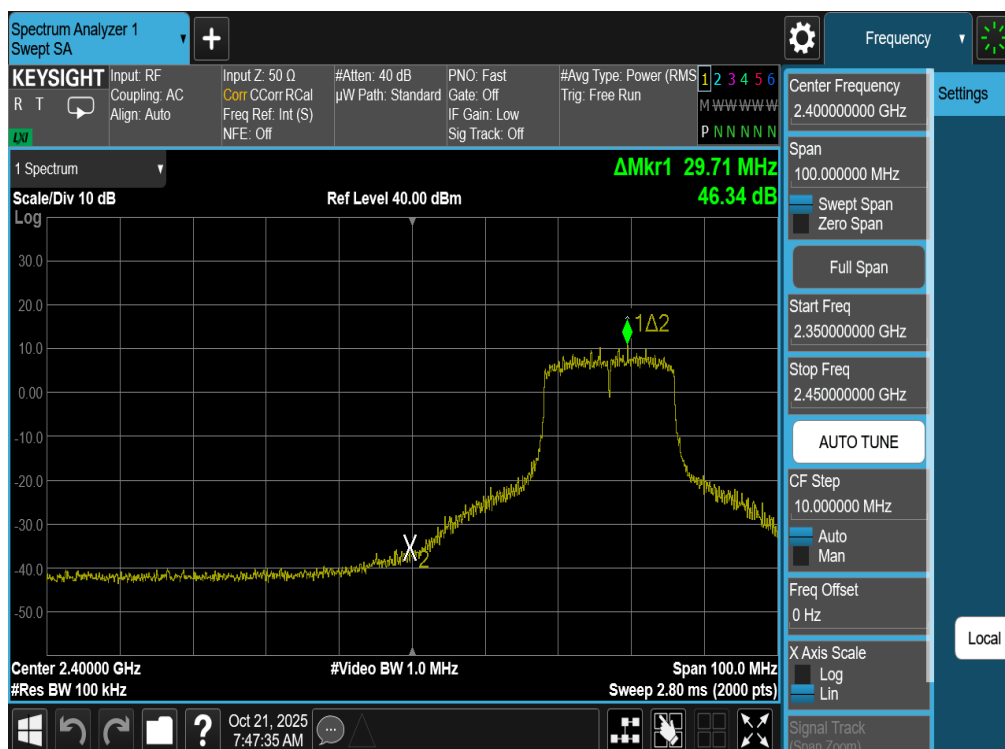
FCC ID: BCGA3459 IC: 579C-A3459	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2509100079-05-R3.BCG	Test Dates: 09/15/2025 - 11/13/2025	EUT Type: Tablet Device	Page 57 of 179

V 11.0 5/2025

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Plot 7-41. Band Edge Plot Antenna WF8 (802.11g – Ch. 3)

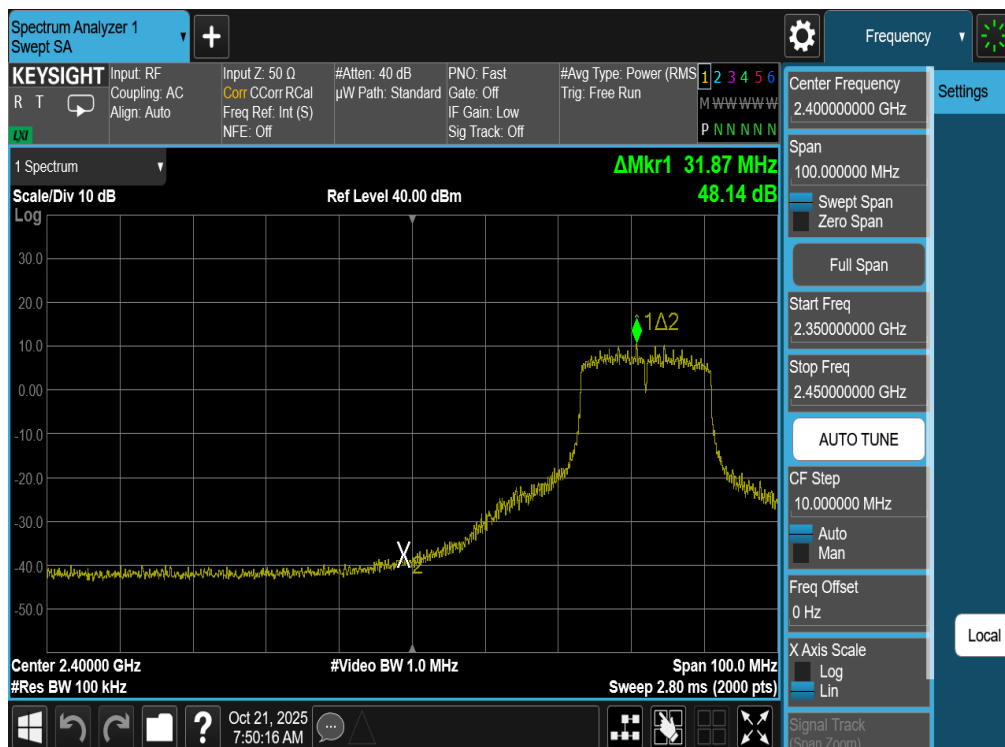


Plot 7-42. Band Edge Plot Antenna WF8 (802.11g – Ch. 4)

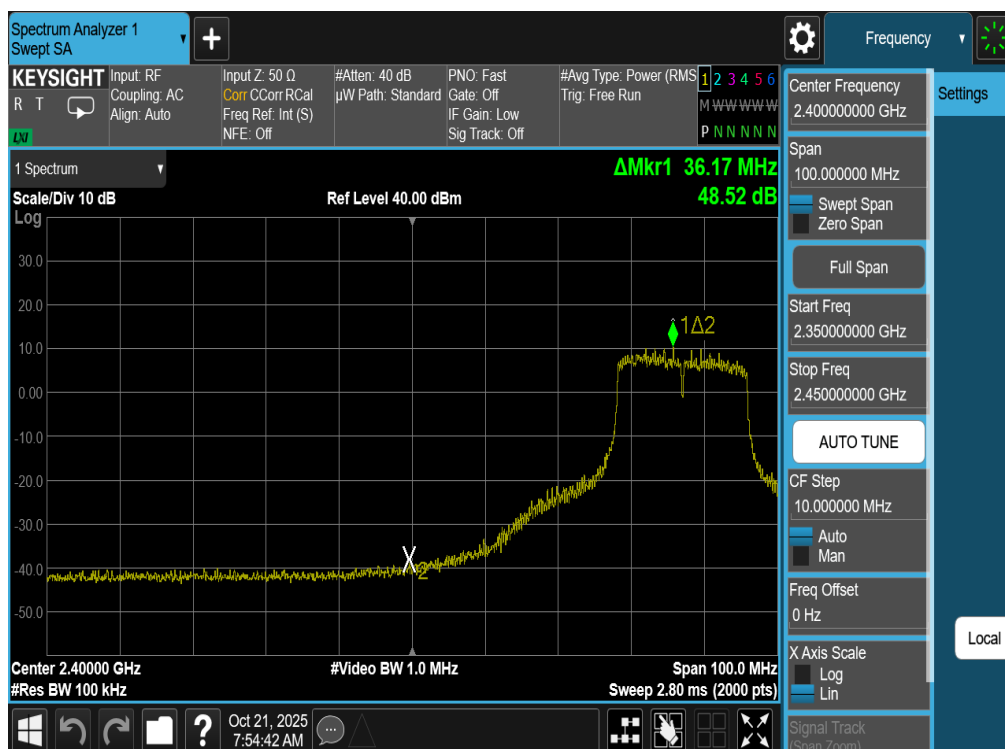
FCC ID: BCGA3459 IC: 579C-A3459	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2509100079-05-R3.BCG	Test Dates: 09/15/2025 - 11/13/2025	EUT Type: Tablet Device	Page 58 of 179

V 11.0 5/2025

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Plot 7-43. Band Edge Plot Antenna WF8 (802.11g – Ch. 5)

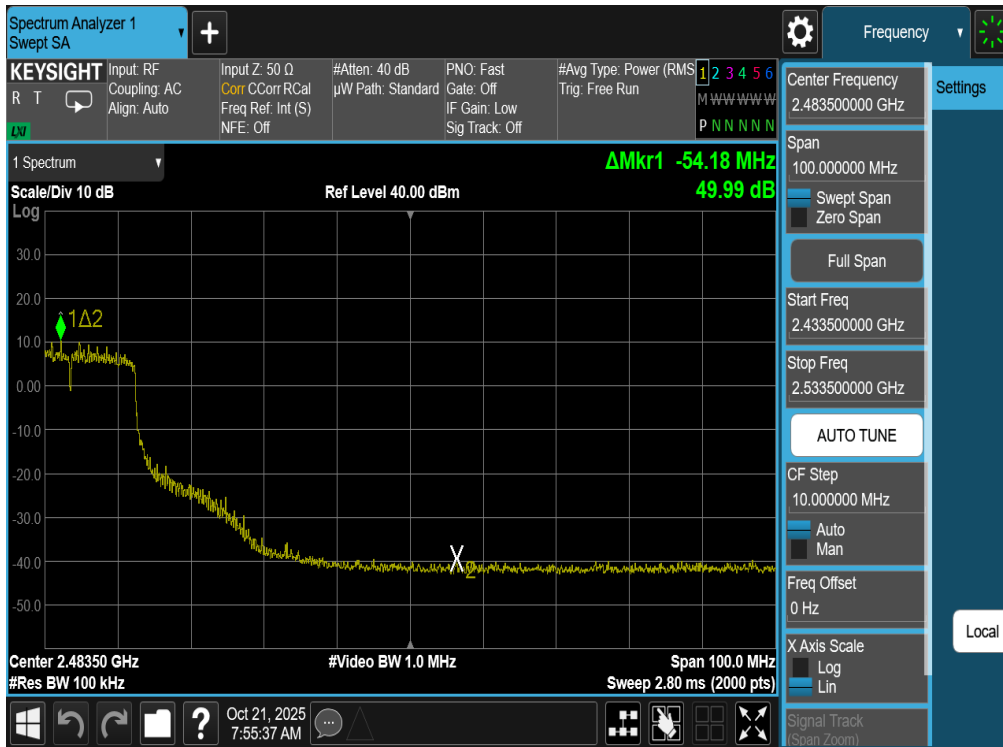


Plot 7-44. Band Edge Plot Antenna WF8 (802.11g – Ch. 6)

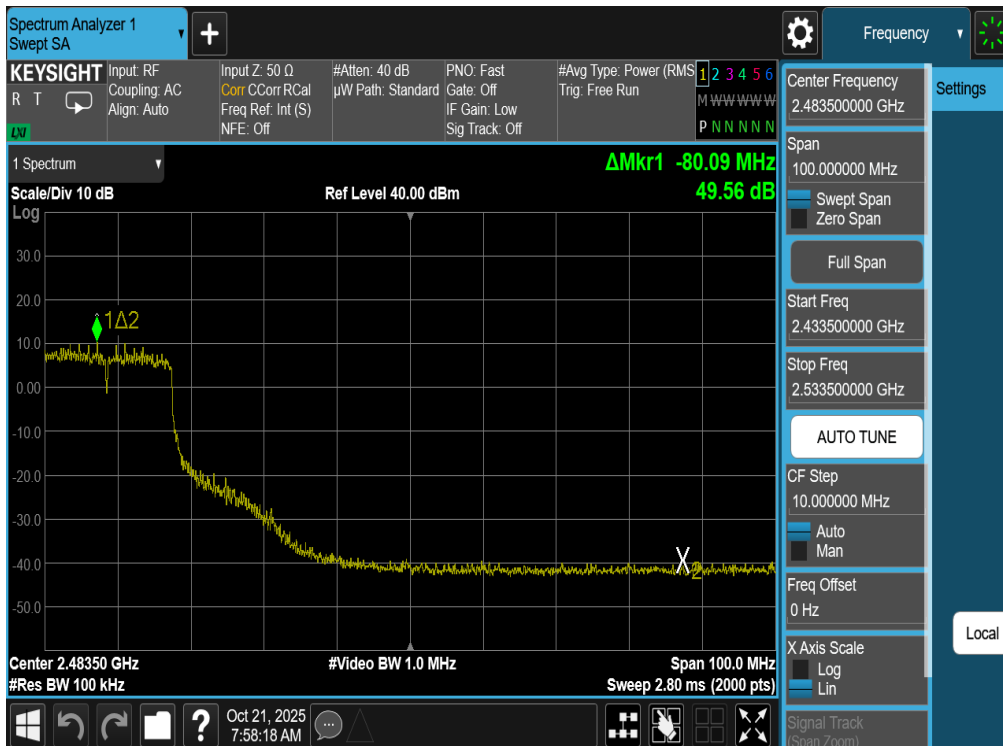
FCC ID: BCGA3459 IC: 579C-A3459	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2509100079-05-R3.BCG	Test Dates: 09/15/2025 - 11/13/2025	EUT Type: Tablet Device	Page 59 of 179

V 11.0 5/2025

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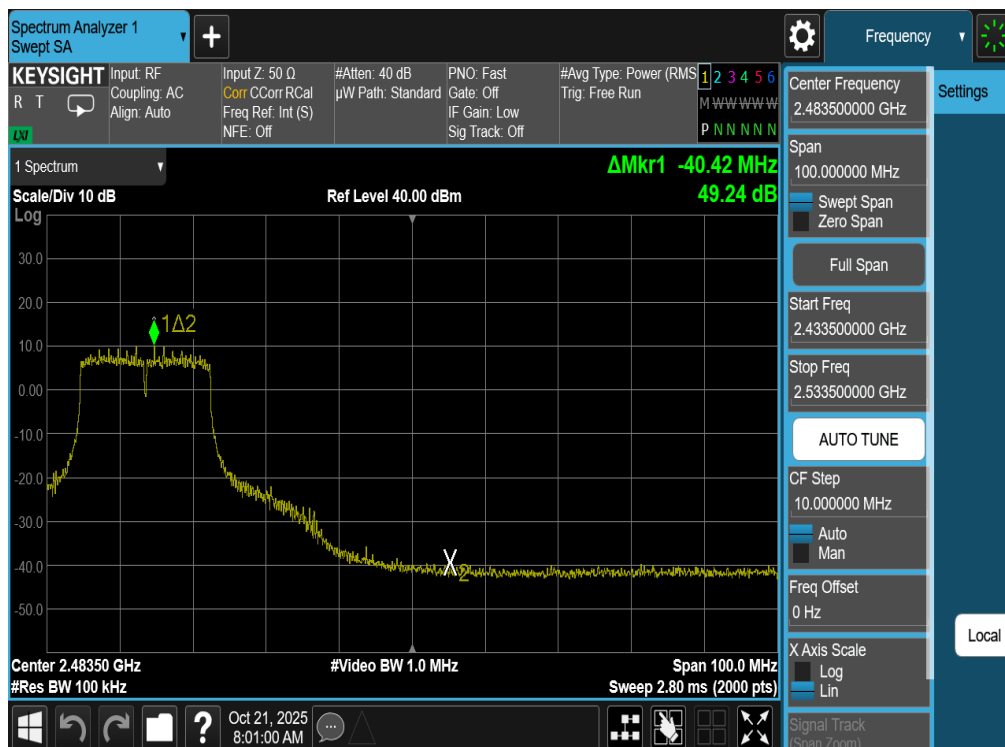


Plot 7-45. Band Edge Plot Antenna WF8 (802.11g – Ch. 6)

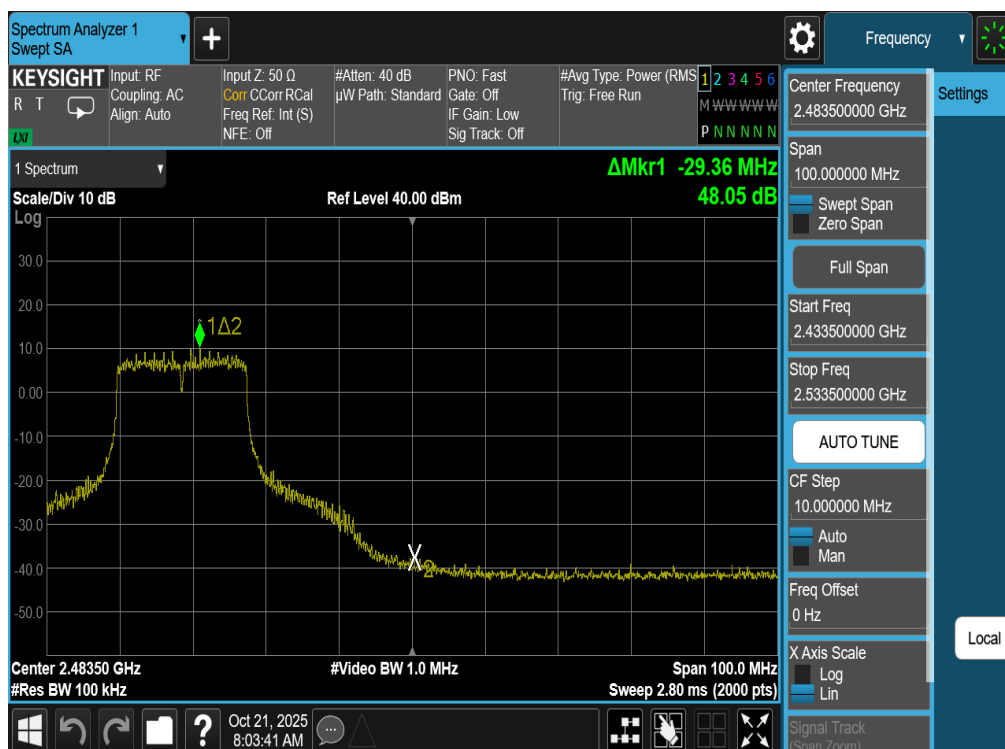


Plot 7-46. Band Edge Plot Antenna WF8 (802.11g – Ch. 7)

FCC ID: BCGA3459 IC: 579C-A3459		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100079-05-R3.BCG	Test Dates: 09/15/2025 - 11/13/2025	EUT Type: Tablet Device	Page 60 of 179



Plot 7-47. Band Edge Plot Antenna WF8 (802.11g – Ch. 8)

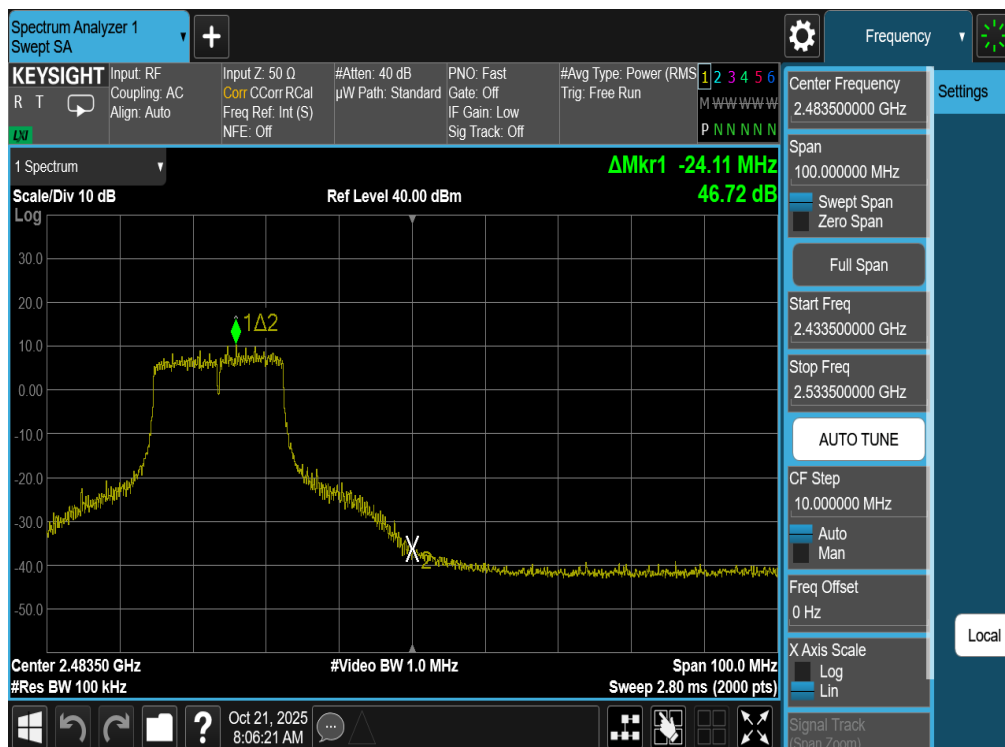


Plot 7-48. Band Edge Plot Antenna WF8 (802.11g – Ch. 9)

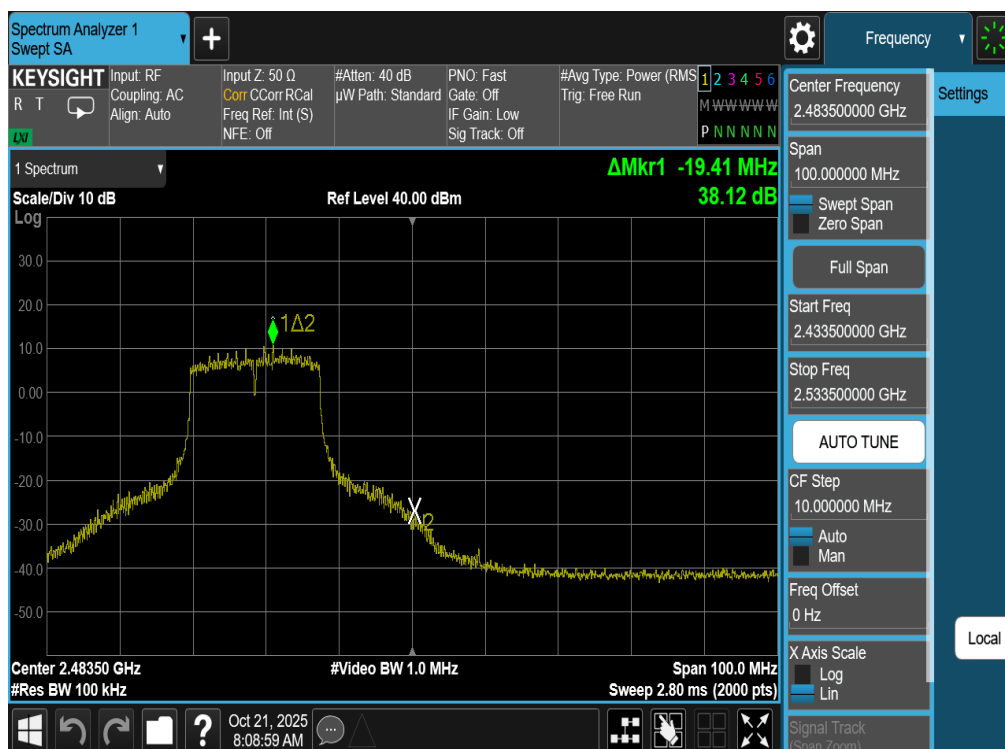
FCC ID: BCGA3459 IC: 579C-A3459		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100079-05-R3.BCG	Test Dates: 09/15/2025 - 11/13/2025	EUT Type: Tablet Device	Page 61 of 179

V 11.0 5/2025

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Plot 7-49. Band Edge Plot Antenna WF8 (802.11g – Ch. 10)

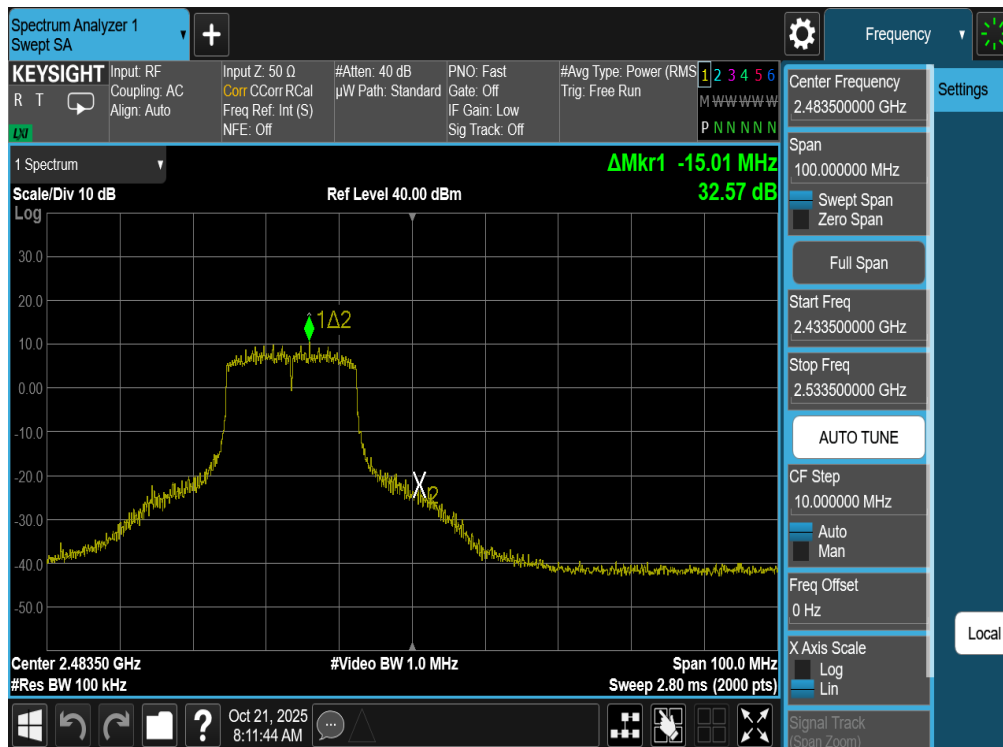


Plot 7-50. Band Edge Plot Antenna WF8 (802.11g – Ch. 11)

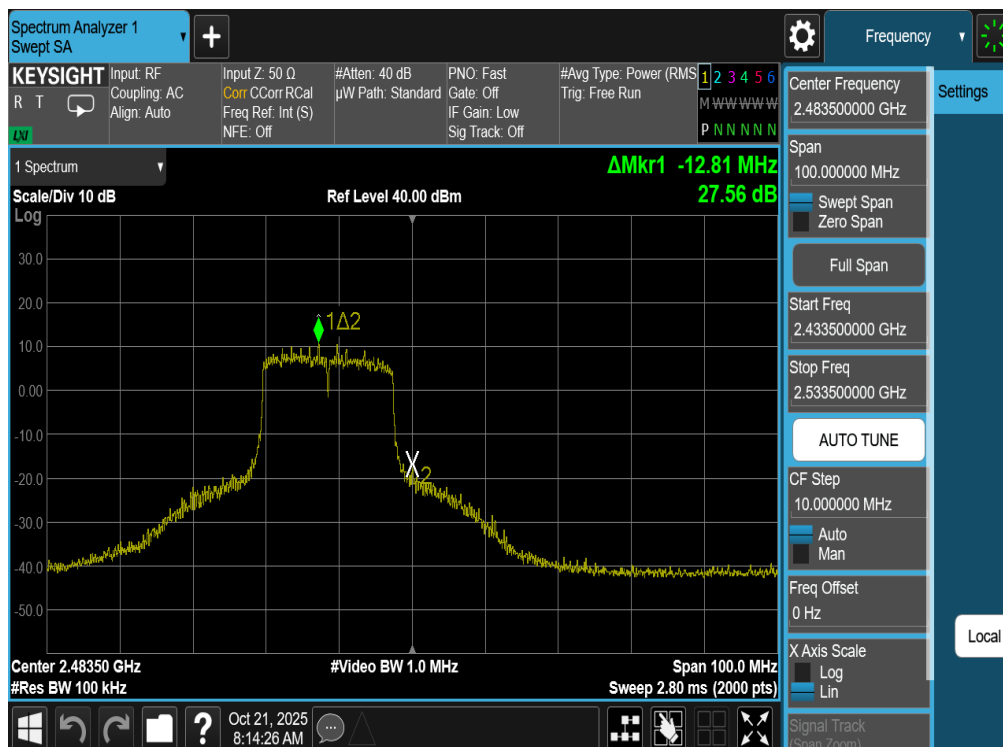
FCC ID: BCGA3459 IC: 579C-A3459		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100079-05-R3.BCG	Test Dates: 09/15/2025 - 11/13/2025	EUT Type: Tablet Device	Page 62 of 179

V 11.0 5/2025

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Plot 7-51. Band Edge Plot Antenna WF8 (802.11g – Ch. 12)

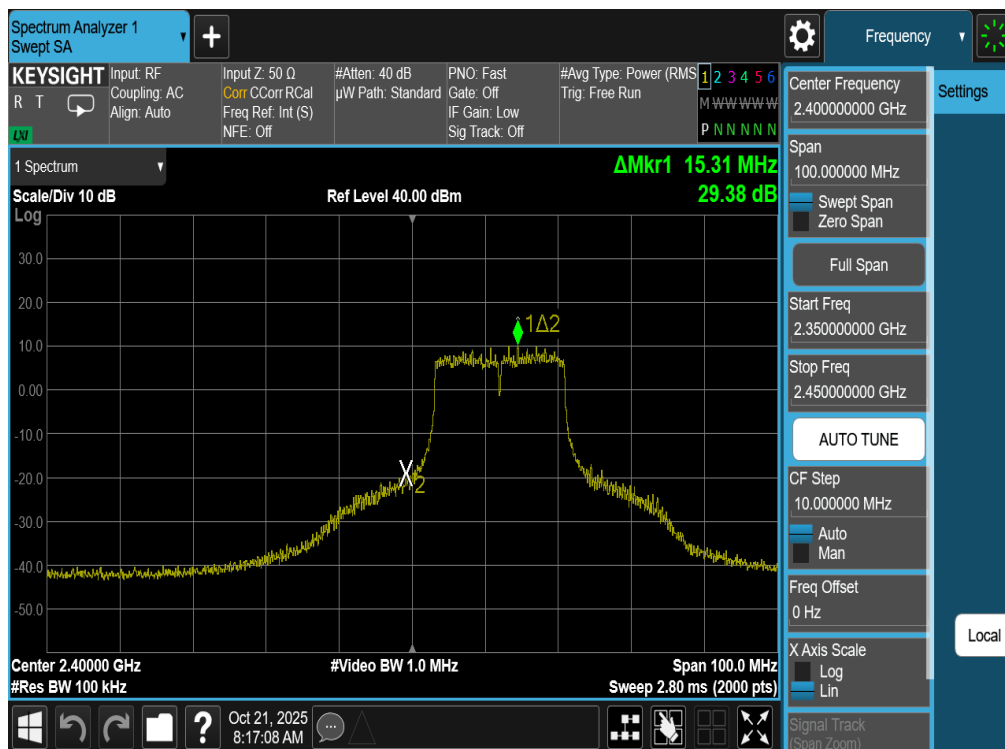


Plot 7-52. Band Edge Plot Antenna WF8 (802.11g – Ch. 13)

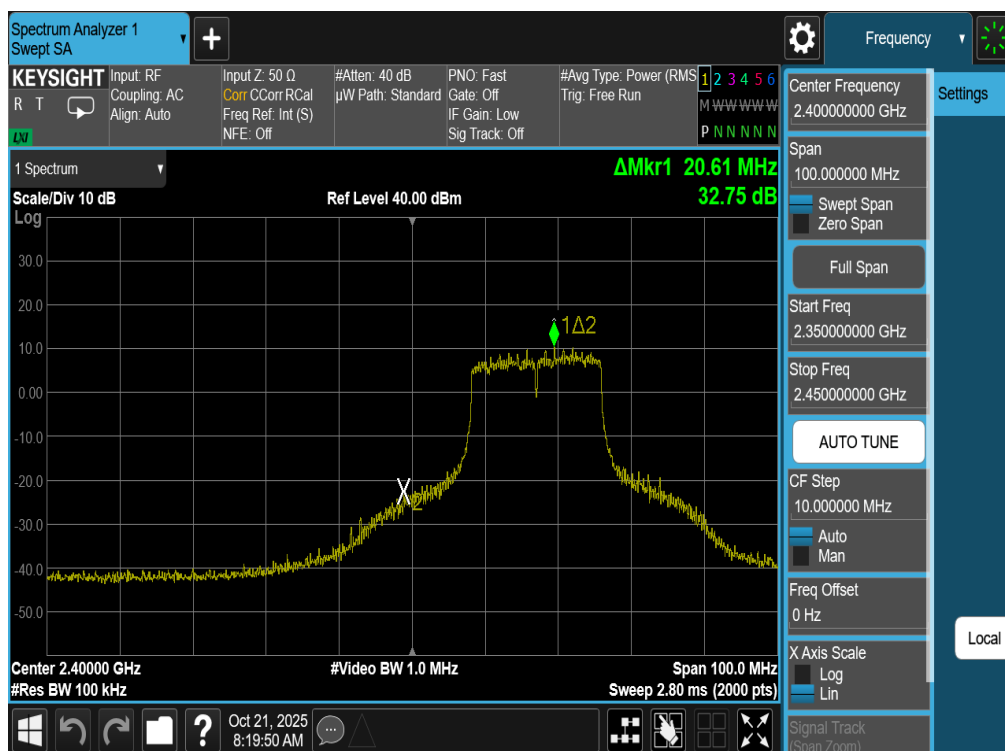
FCC ID: BCGA3459 IC: 579C-A3459		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100079-05-R3.BCG	Test Dates: 09/15/2025 - 11/13/2025	EUT Type: Tablet Device	Page 63 of 179

V 11.0 5/2025

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Plot 7-53. Band Edge Plot Antenna WF8 (802.11n (2.4GHz) – Ch. 1)

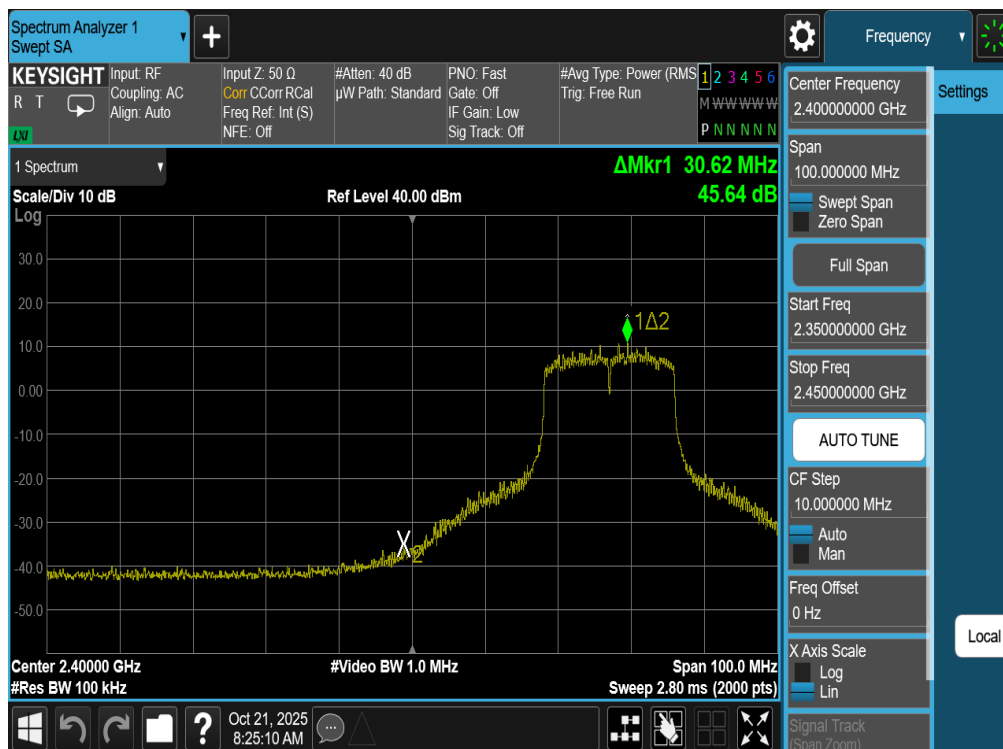
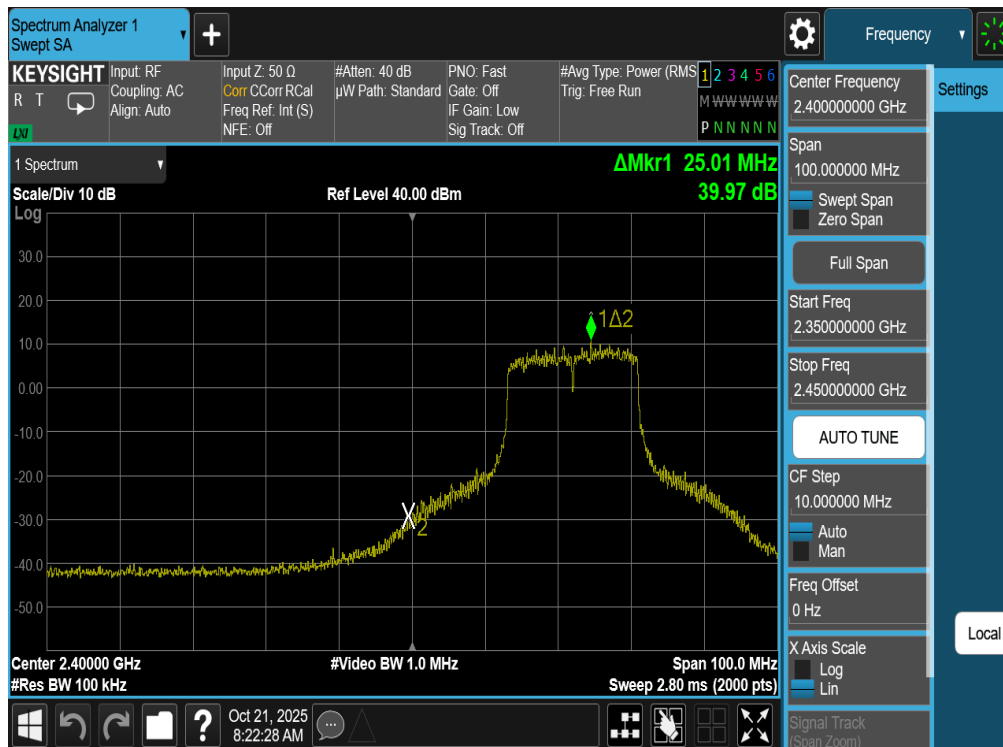


Plot 7-54. Band Edge Plot Antenna WF8 (802.11n (2.4GHz) – Ch. 2)

FCC ID: BCGA3459 IC: 579C-A3459	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2509100079-05-R3.BCG	Test Dates: 09/15/2025 - 11/13/2025	EUT Type: Tablet Device	Page 64 of 179

V 11.0 5/2025

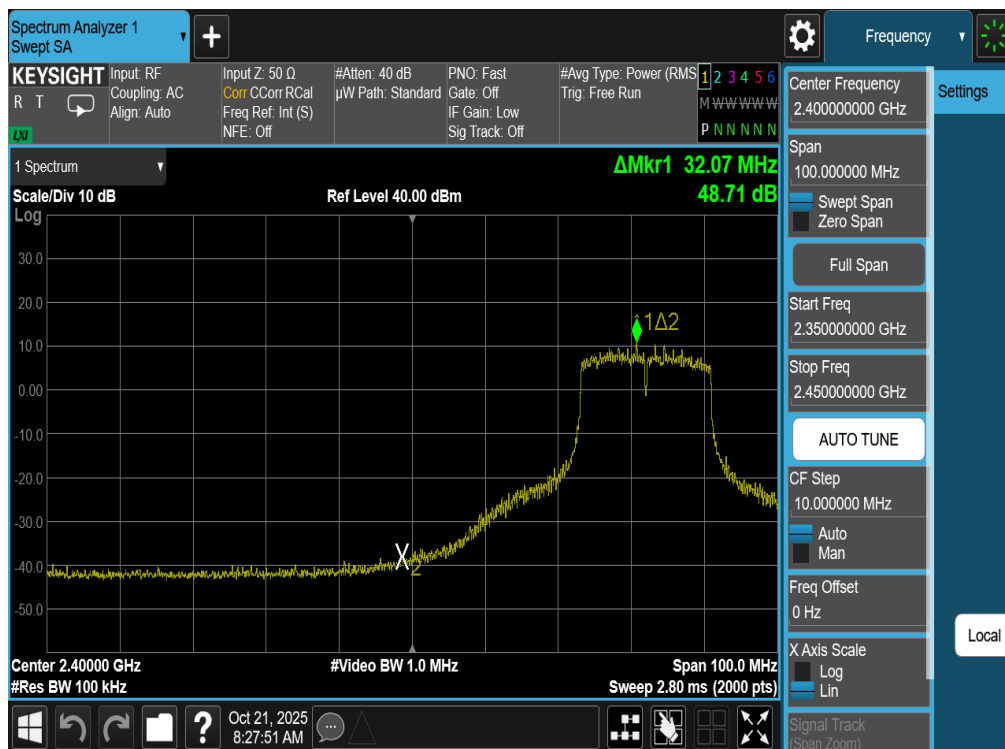
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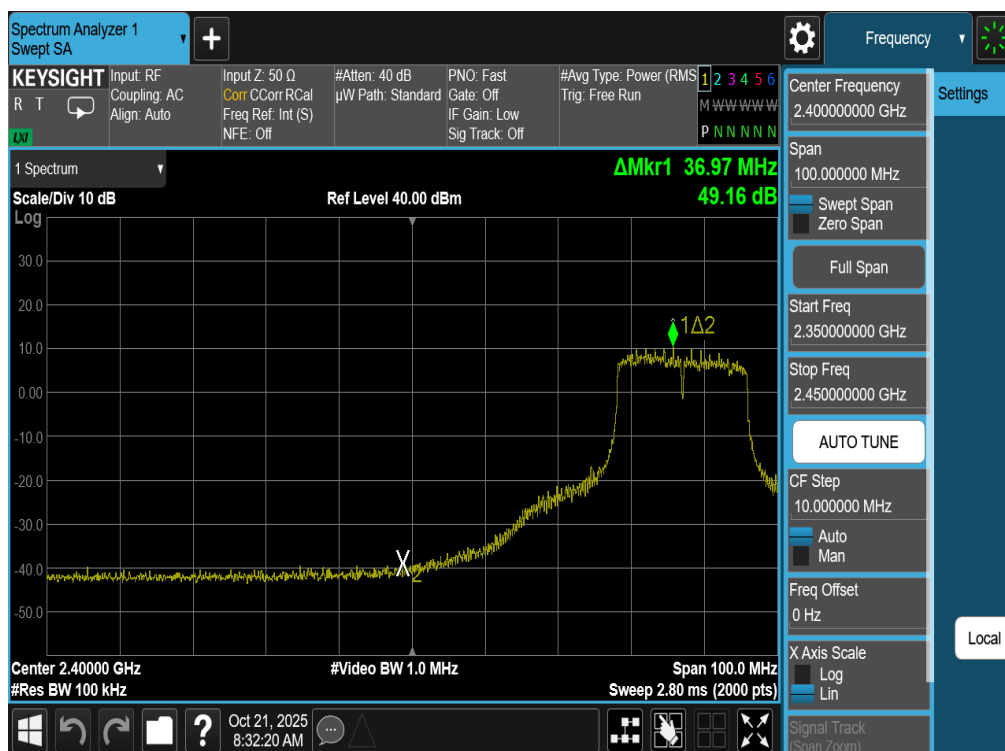
FCC ID: BCGA3459 IC: 579C-A3459	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2509100079-05-R3.BCG	Test Dates: 09/15/2025 - 11/13/2025	EUT Type: Tablet Device	Page 65 of 179

V 11.0 5/2025

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Plot 7-57. Band Edge Plot Antenna WF8 (802.11n (2.4GHz) – Ch. 5)

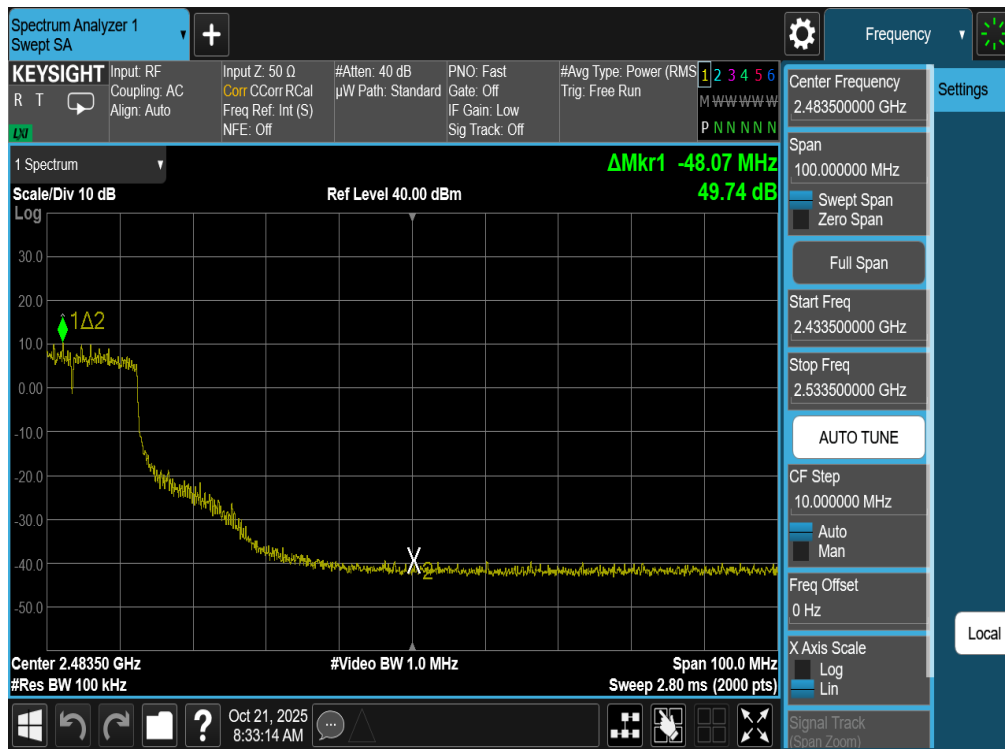


Plot 7-58. Band Edge Plot Antenna WF8 (802.11n (2.4GHz) – Ch. 6)

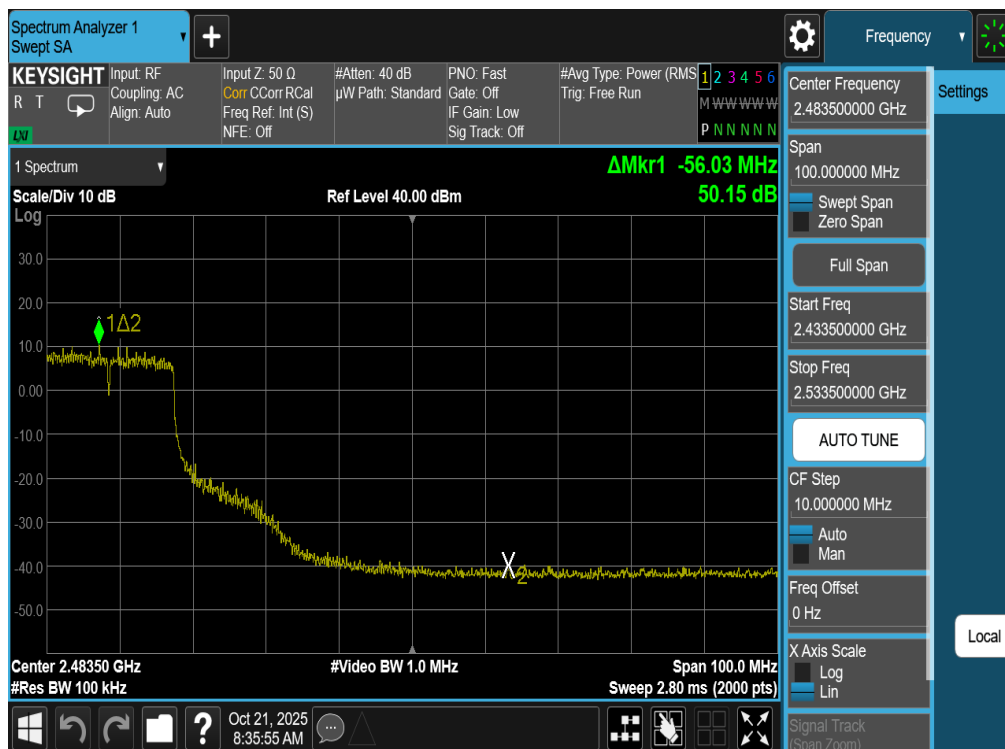
FCC ID: BCGA3459 IC: 579C-A3459	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2509100079-05-R3.BCG	Test Dates: 09/15/2025 - 11/13/2025	EUT Type: Tablet Device	Page 66 of 179

V 11.0 5/2025

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Plot 7-59. Band Edge Plot Antenna WF8 (802.11n (2.4GHz) – Ch. 6)

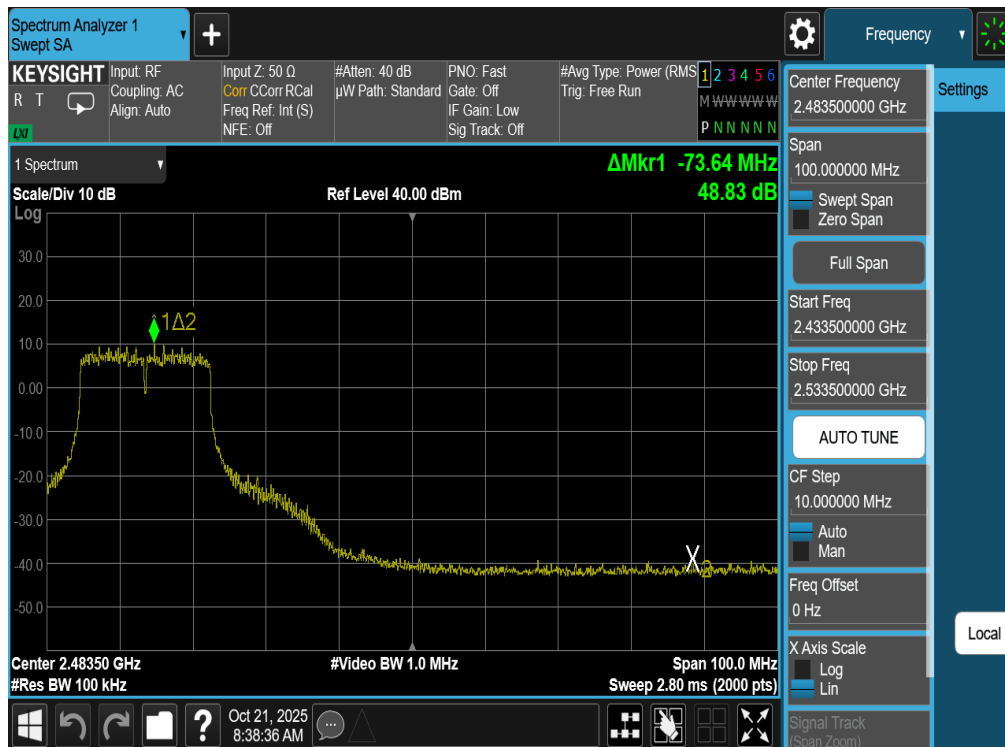


Plot 7-60. Band Edge Plot Antenna WF8 (802.11n (2.4GHz) – Ch. 7)

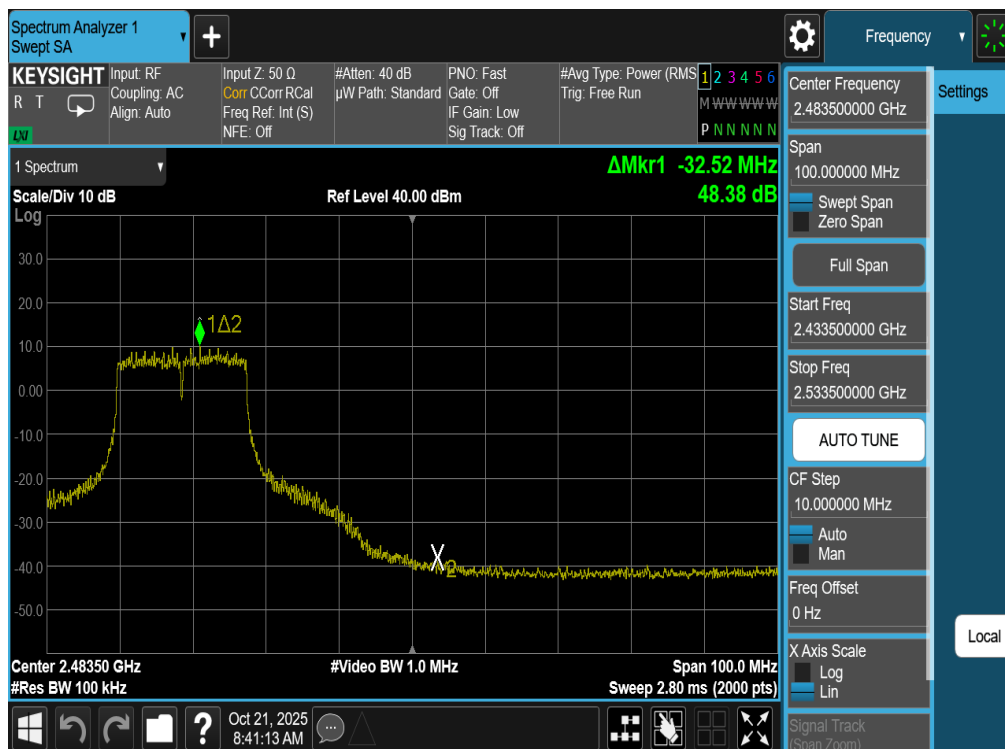
FCC ID: BCGA3459 IC: 579C-A3459	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2509100079-05-R3.BCG	Test Dates: 09/15/2025 - 11/13/2025	EUT Type: Tablet Device	Page 67 of 179

V 11.0 5/2025

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Plot 7-61. Band Edge Plot Antenna WF8 (802.11n (2.4GHz) – Ch. 8)

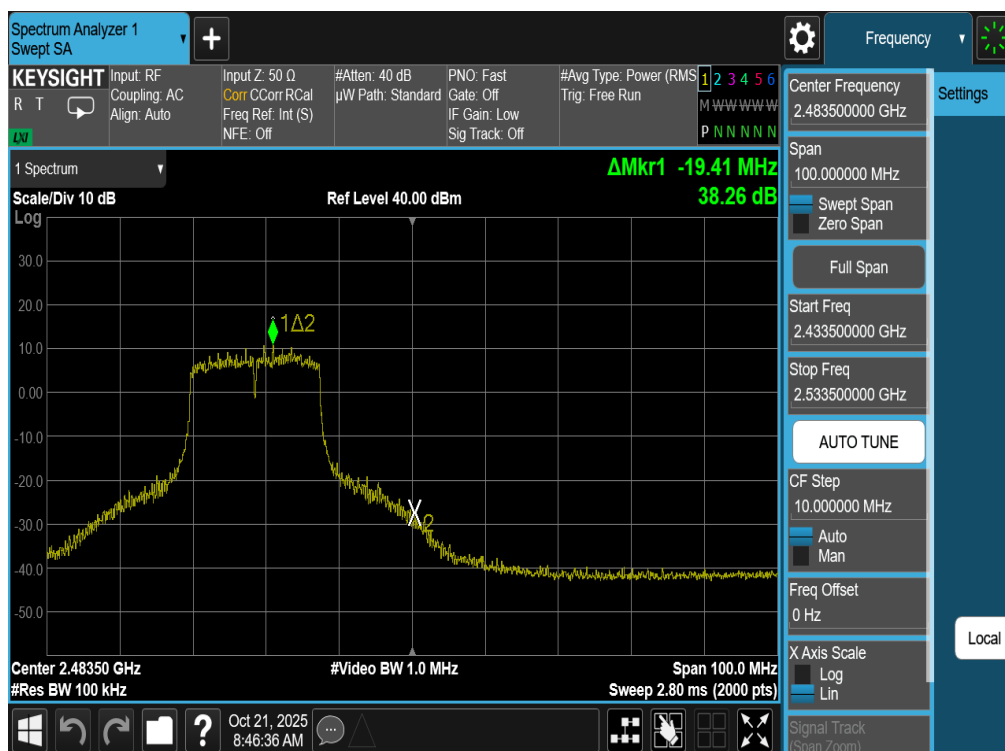
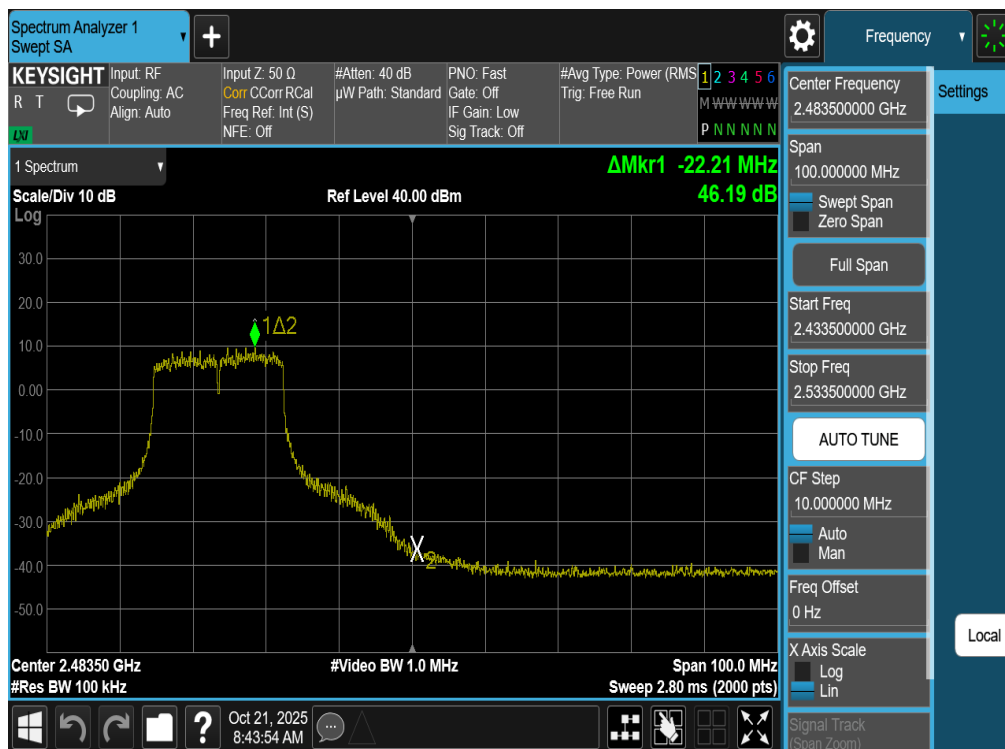


Plot 7-62. Band Edge Plot Antenna WF8 (802.11n (2.4GHz) – Ch. 9)

FCC ID: BCGA3459 IC: 579C-A3459		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100079-05-R3.BCG	Test Dates: 09/15/2025 - 11/13/2025	EUT Type: Tablet Device	Page 68 of 179

V 11.0 5/2025

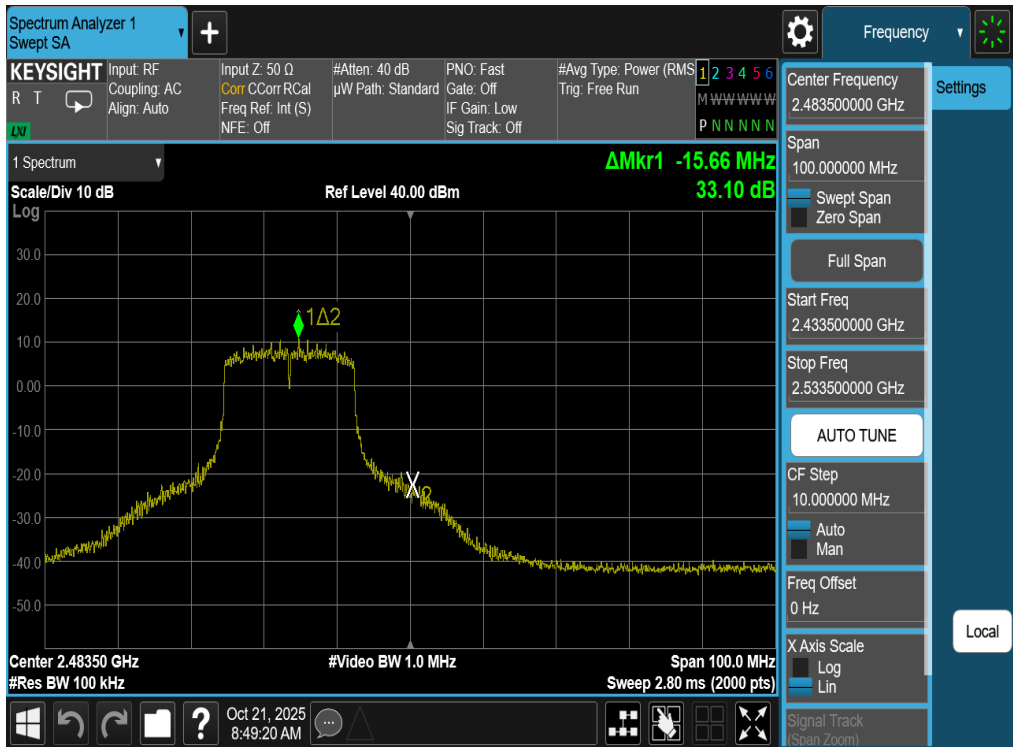
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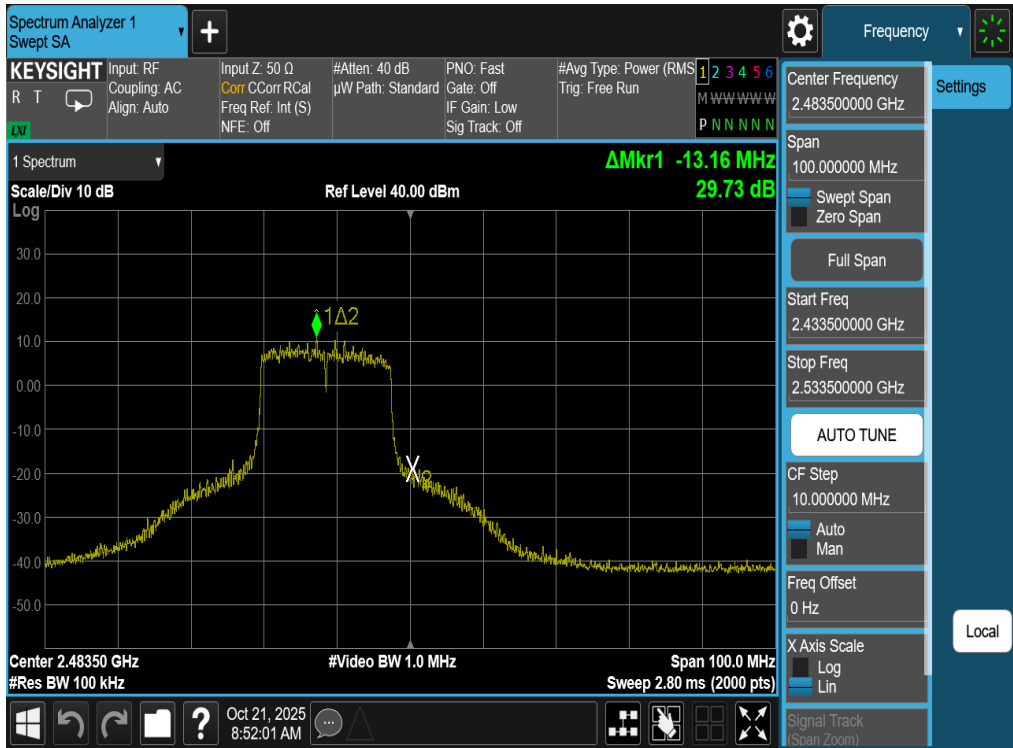
FCC ID: BCGA3459 IC: 579C-A3459		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100079-05-R3.BCG	Test Dates: 09/15/2025 - 11/13/2025	EUT Type: Tablet Device	Page 69 of 179

V 11.0 5/2025

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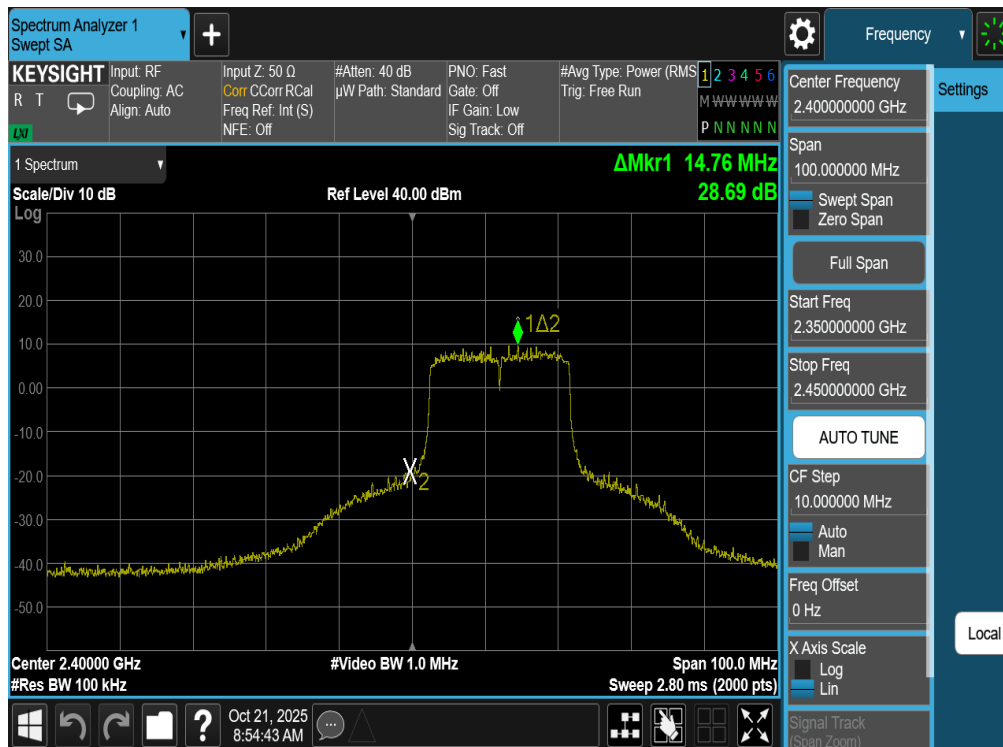


Plot 7-65. Band Edge Plot Antenna WF8 (802.11n (2.4GHz) – Ch. 12)

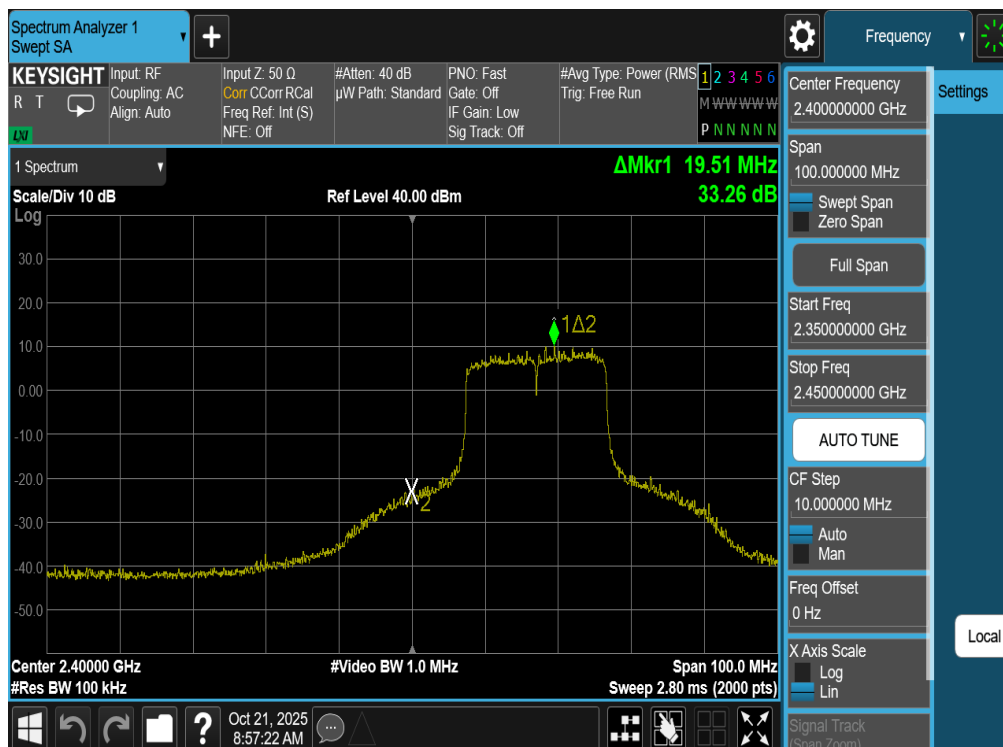


Plot 7-66. Band Edge Plot Antenna WF8 (802.11n (2.4GHz) – Ch. 13)

FCC ID: BCGA3459 IC: 579C-A3459		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100079-05-R3.BCG	Test Dates: 09/15/2025 - 11/13/2025	EUT Type: Tablet Device	Page 70 of 179



Plot 7-67. Band Edge Plot Antenna WF8 (802.11be (SU - 2.4GHz) – Ch. 1)

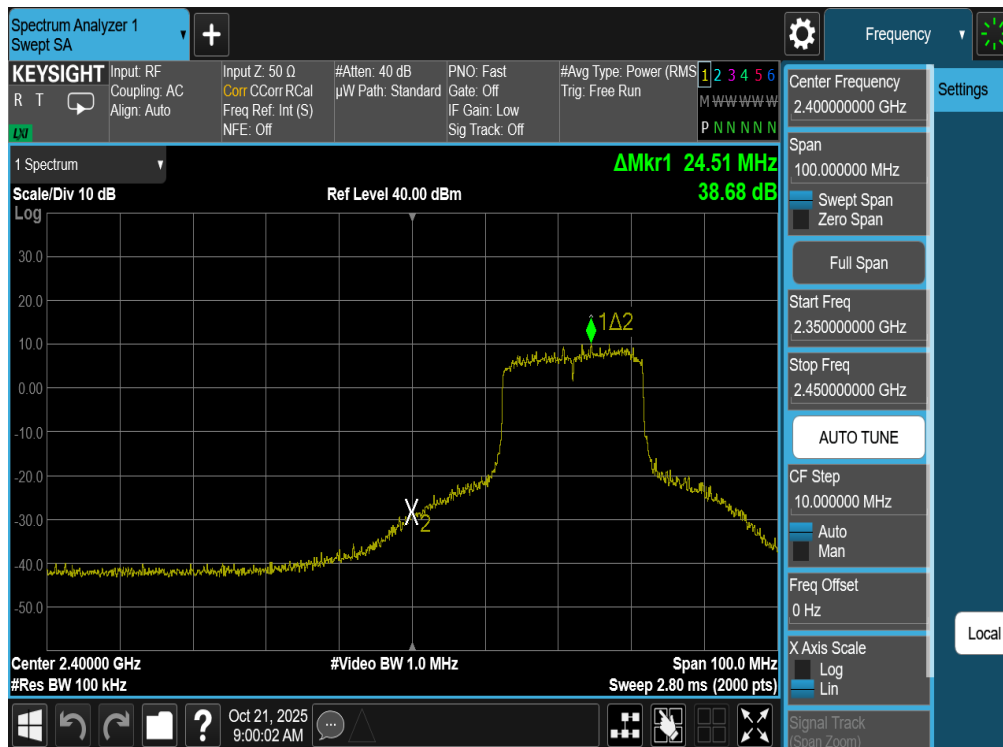


Plot 7-68. Band Edge Plot Antenna WF8 (802.11be (SU - 2.4GHz) – Ch. 2)

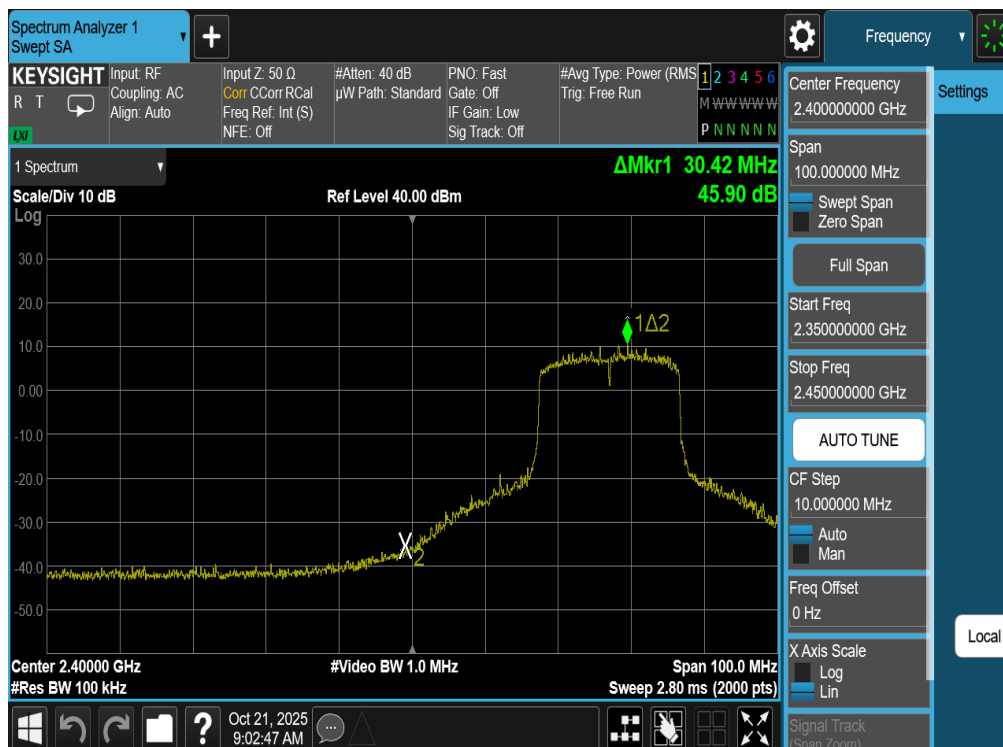
FCC ID: BCGA3459 IC: 579C-A3459	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2509100079-05-R3.BCG	Test Dates: 09/15/2025 - 11/13/2025	EUT Type: Tablet Device	Page 71 of 179

V 11.0 5/2025

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Plot 7-69. Band Edge Plot Antenna WF8 (802.11be (SU - 2.4GHz) – Ch. 3)

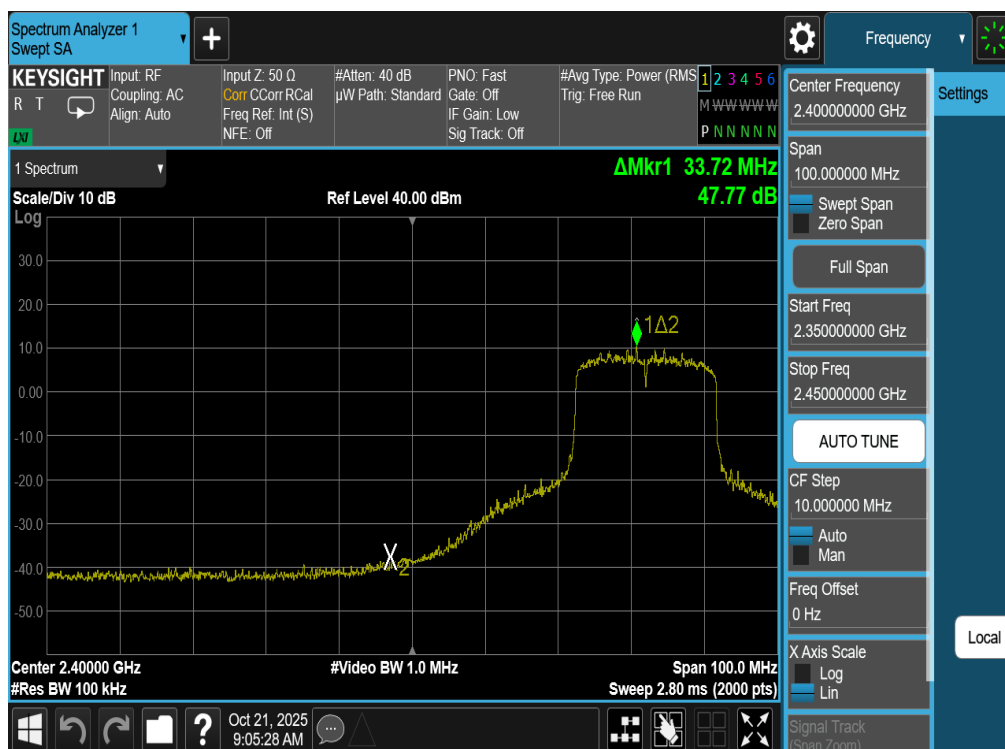


Plot 7-70. Band Edge Plot Antenna WF8 (802.11be (SU - 2.4GHz) – Ch. 4)

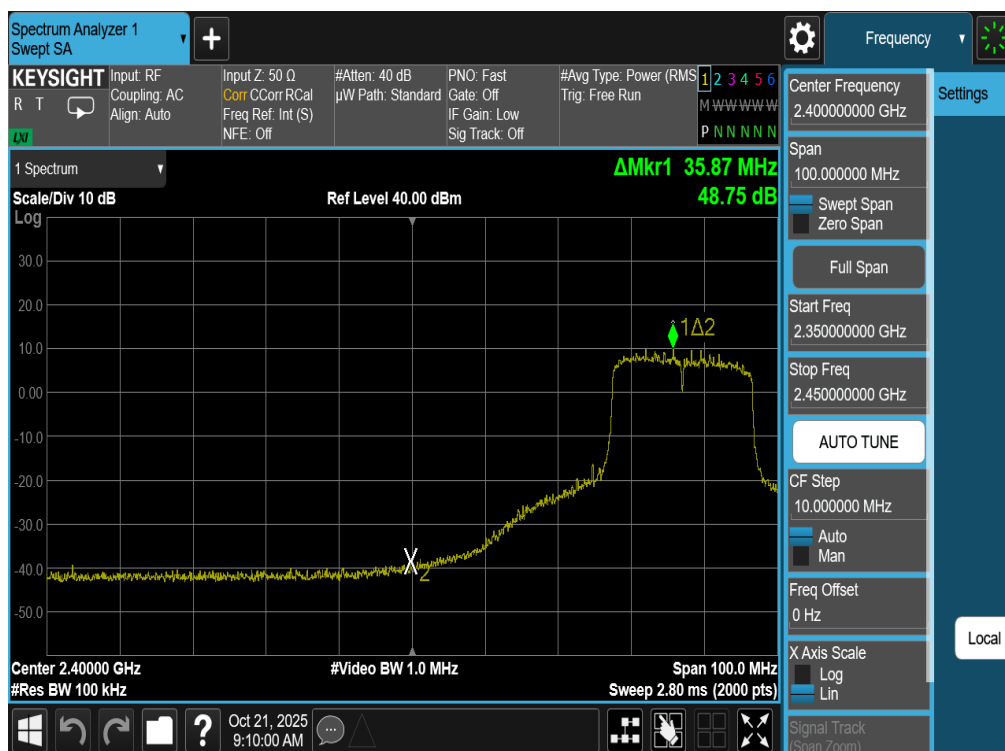
FCC ID: BCGA3459 IC: 579C-A3459	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2509100079-05-R3.BCG	Test Dates: 09/15/2025 - 11/13/2025	EUT Type: Tablet Device	Page 72 of 179

V 11.0 5/2025

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Plot 7-71. Band Edge Plot Antenna WF8 (802.11be (SU - 2.4GHz) – Ch. 5)



Plot 7-72. Band Edge Plot Antenna WF8 (802.11be (SU - 2.4GHz) – Ch. 6)

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Test Report S/N: 1C2509100079-05-R3.BCG	Test Dates: 09/15/2025 - 11/13/2025	EUT Type: Tablet Device	Page 73 of 179

V 11.0 5/2025

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