

MEASUREMENT REPORT

FCC PART 15.407 / ISED RSS-248 Narrowband (NB) UNII 6GHz

Applicant Name: Apple Inc. One Apple Park Way Cupertino, CA 95014 United States	Date of Testing: 09/18/2025 - 12/23/2025 Test Report Issue Date: 1/15/2026 Test Site/Location: Element Materials Technology, Morgan Hill, CA, USA Test Report Serial No.: 1C2509100079-11-R4.BCG
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FCC ID:	BCGA3459
IC:	579C-A3459
APPLICANT:	Apple Inc.

Application Type:	Certification
Model/HVIN:	A3459
EUT Type:	Tablet Device
Frequency Range	6106 – 6420 MHz
Modulation Type:	GFSK, $\pi/4$ DQPSK, OQPSK, 8PSK, 16QAM
FCC Classification:	15E 6 GHZ Very Low Power Device (6VL)
FCC Rule Part(s)	Part 15 Subpart E (15.407)
ISED Specification:	RSS-248 Issue 3
Test Procedure(s):	ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024, KDB 789033 D02 v02r01 KDB 662911 D01 v02r01, KDB 987594 D02 v03 KDB 987594 D03 v03r04, KDB 987594 D04 v03 KDB 987594 D01 v03r01

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 789033 D02 v02r01. Test results reported herein relate only to the item(s) tested.

This revised Test Report (S/N: 1C2509100079-11-R4.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



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Test Report S/N: 1C2509100079-11-R4.BCG	Test Dates: 09/18/2025 - 12/23/2025	EUT Type: Tablet Device	Page 1 of 209

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Revision Summary

Revision	Description	Issued Date	Revised By
-	Initial Release	12/4/2025	WKR017014
R1	Addressed TCB Comments for Sections 2.3, 2.5, 2.6, 6.0, 7.1, 7.3, 7.4, 7.5, 7.6, 7.7, 7.8, & 7.10	12/5/2025	WKR017014
R2	Addressed TCB Comments for Sections 2.2, 2.5, 7.1, 7.4, & 7.8	12/9/2025	WKR017014
R3	Addressed TCB Comments for Sections 7.4 and Client RT minor formatting	12/23/2025	WKR007077
R4	Addressed TCB Comments for Section 7.8	12/29/2025	WKR017014

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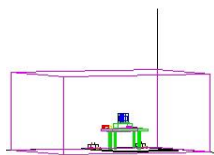
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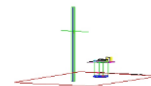
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MEASUREMENT REPORT



UNII Band	Tx Frequency [MHz]	Mode	Power Scheme	SISO				TxBF	
				Antenna WF8		Antenna WF7a		Summed	
				Max. e.i.r.p (mW)	Max. e.i.r.p (dBm)	Max. e.i.r.p (mW)	Max. e.i.r.p (dBm)	Max. e.i.r.p (mW)	Max. e.i.r.p (dBm)
5	6106 - 6420	NB UNII BDR	ePA	0.208	-6.82	0.199	-7.02	0.191	-7.20
			iPA	0.203	-6.92	0.204	-6.90	0.182	-7.40
		NB UNII LE	ePA	0.266	-5.75	0.254	-5.95	0.226	-6.45
			iPA	0.261	-5.83	0.262	-5.82	0.248	-6.05
		NB UNII HDR	ePA	1.380	1.40	1.239	0.93	1.274	1.05
			iPA	1.403	1.47	1.202	0.80	1.318	1.20
		NB UNII HDT	ePA	0.374	-4.27	0.383	-4.17	0.351	-4.55
			iPA	0.381	-4.19	0.388	-4.11	0.372	-4.29

EUT Overview

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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 designed by NIST under the U.S. and Canada Mutual Recognition Agreements (MRAs)

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2.0 PRODUCT INFORMATION

2.1 Equipment Description

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

- This Narrowband UNII module has been tested by manufacturer and the following were confirmed:
 - A) The hopping sequence is pseudorandom
 - B) The receiver input bandwidth equals the transmit bandwidth
 - C) The receiver hops in sequence with the transmit signal
 - D) Narrowband UNII can only hop within the same UNII band and cannot hop between bands

Test Device Serial No.: KX1QPW64K2, PT6Q9F2KYP, 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.

Channels below 6105MHz are disabled in the United States, Canada, and US territories.

Band 5
Frequency (MHz)
6106
:
6263
:
6420

Table 2-1. NB UNII Frequency / Channel Operations

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Group	Mode	Data Rate (Mbps)	Modulation	Bandwidth (MHz)
1	BDR	1	GFSK	1
2	LE1M	1	GFSK	1
3	LE2M	2	GFSK	2
4	HDR4	4	Pi/4-DQPSK	2
5	HDR8	8	Pi/4-DQPSK	4
6	HDRPS2	2	OQPSK	2
	XHDRPS2	2		
7	HDRPM4	4	OQPSK	4
	HDRPM6	6		
	HDRPM8	8		
	XHDRPM4	4		
	XHDRPM6	6		
	XHDRPM8	8		
8	HDRPM12	12	16QAM	4
	HDRPM16	16		
	XHDRPM12	12		
	XHDRPM16	16		
9	HDRPL8	8	OQPSK	8
	HDRPL12	12		
	HDRPL16	16		
	XHDRPL8	8		
	XHDRPL12	12		
	XHDRPL16	16		
10	HDRPL24	24	16QAM	8
	HDRPL32	32		
	XHDRPL24	24		
	XHDRPL32	32		
11	HDT2	2	Pi/4-QPSK	2
	HDT3	3		
12	HDT4	4	8PSK	2
13	HDT6	6	16QAM	2
	HDT8	8		

Table 2-2. NB UNII Configuration

FCC ID: BCGA3459 IC: 579C-A3459	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Notes: This device is capable of operating in hopping and non-hopping mode. The EUT can hop between different channels in the U-NII Band 5. 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 B)2)b) of KDB 789033 D02 v02r01 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:

Mode		Antenna WF8		Antenna WF7a		TxBF	
		Duty Cycle [%]	DCCF [dB]	Duty Cycle [%]	DCCF [dB]	Duty Cycle [%]	DCCF [dB]
BDR	ePA	76.261	1.177	76.296	1.175	76.296	1.175
	iPA	76.261	1.177	76.296	1.175	76.296	1.175
LE1M	ePA	84.859	0.713	84.840	0.714	84.840	0.714
	iPA	84.859	0.713	84.840	0.714	84.840	0.714
LE2M	ePA	56.781	2.458	56.794	2.457	56.846	2.453
	iPA	56.781	2.458	56.794	2.457	56.846	2.453
HDR4	ePA	77.553	1.104	77.804	1.090	77.804	1.090
	iPA	77.553	1.104	77.804	1.090	77.804	1.090
HDR8	ePA	77.750	1.093	77.750	1.093	77.750	1.093
	iPA	77.750	1.093	77.750	1.093	77.750	1.093
HDRPS2	ePA	91.981	0.363	92.449	0.341	91.770	0.373
	iPA	91.981	0.363	92.449	0.341	91.770	0.373
XHDRPS2	ePA	98.084	0.084	98.878	0.049	98.401	0.070
	iPA	98.084	0.084	98.878	0.049	98.401	0.070
XHDRPM6	ePA	86.238	0.643	86.278	0.641	86.457	0.632
	iPA	86.238	0.643	86.278	0.641	86.457	0.632
XHDRPM8	ePA	92.321	0.347	92.172	0.354	92.172	0.354
	iPA	92.321	0.347	92.172	0.354	92.172	0.354
HDRPM16	ePA	89.784	0.468	89.166	0.498	89.598	0.477
	iPA	89.784	0.468	89.166	0.498	89.598	0.477
XHDRPM16	ePA	87.317	0.589	87.640	0.573	87.317	0.589
	iPA	87.317	0.589	87.640	0.573	87.317	0.589
HDRPL12	ePA	90.095	0.453	89.867	0.464	90.095	0.453
	iPA	90.095	0.453	89.867	0.464	90.095	0.453
XHDRPL16	ePA	95.017	0.222	95.017	0.222	95.082	0.219
	iPA	95.017	0.222	95.017	0.222	95.082	0.219
HDRPL32	ePA	88.145	0.548	88.410	0.535	88.288	0.541
	iPA	88.145	0.548	88.410	0.535	88.288	0.541
XHDRPL32	ePA	85.310	0.690	85.724	0.669	85.408	0.685
	iPA	85.310	0.690	85.724	0.669	85.408	0.685
HDT2	ePA	96.427	0.158	96.316	0.163	96.095	0.173
	iPA	96.427	0.158	96.316	0.163	96.095	0.173
HDT4	ePA	93.347	0.299	93.498	0.292	93.368	0.298
	iPA	93.347	0.299	93.498	0.292	93.368	0.298
HDT6	ePA	90.427	0.437	90.427	0.437	90.344	0.441
	iPA	90.427	0.437	90.427	0.437	90.344	0.441
HDT8	ePA	88.879	0.512	88.941	0.509	88.797	0.516
	iPA	88.879	0.512	88.941	0.509	88.797	0.516

Table 2-3. Measured Duty Cycles

FCC ID: BCGA3459 IC: 579C-A3459	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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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 2-4. Simultaneous Transmission Configurations

✓ = Support; ✗ = Not Support

TxBF = Antenna WF8 + Antenna WF7a

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.

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2.3 Antenna Description

The following antenna gains provided by the manufacturer were used for testing.

Frequency [GHz]	Highest Antenna Gain (dBi)	
	Antenna WF8	Antenna WF7a
6106 - 6175	3.8	3.1
6176 - 6300	3.4	2.5
6301 - 6420	1.0	3.5

Table 2-5. Highest Antenna Gain

2.4 Test Support Equipment

1	Apple MacBook Pro	Model:	A2141	S/N:	C02H604EQ05D
	w/AC/DC Adapter	Model:	A2166	S/N:	C4H042705ZNPM0WA6
2	Apple USB-C Cable	Model:	Spartan	S/N:	GXX1336018XKTR024
3	USB-C Cable	Model:	A2795	S/N:	DWH80115BK826GV19
	w/ AC Adapter	Model:	A2305	S/N:	C4H95160004PF4F4V
4	Apple Pencil	Model:	A2538	S/N:	KJ26TCFXJW
5	DC Power Supply	Model:	KPS3010D	S/N:	N/A
6	Developmental Board	Model:	N/A	S/N:	N/A
7	Tablet Device	Model:	A3461	S/N:	YX42147Q5C

Table 2-6. Test Support Equipment List

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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, KDB 789033 D02 v02r01 and KDB 987594 D02v02r01. 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, 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 configurations were investigated and EUT powered by AC/DC adaptor was the worst case.

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

For conducted emissions, the following worst case NB UNII data rates were used for testing:

1. BDR
2. LE1M
3. LE2M
4. HDR4
5. HDR8
6. HDRPS2
7. XHDRPM6
8. HDRPM16
9. HDRPL12
10. HDRPL32
11. HDT2
12. HDT4
13. HDT6

For radiated band edge, the following worst case NB UNII data rates were used for testing:

1. BDR
2. LE1M
3. LE2M
4. HDR4
5. HDR8
6. XHDRPS2
7. XHDRPM8
8. XHDRPM16
9. XHDRPL16
10. XHDRPL32
11. HDT8

For radiated spurious emissions, the following worst case NB UNII data rates were used for testing:

1. BDR
2. LE1M
3. HDR4

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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.

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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 789033 D02 v02r01 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 ground plane. Power cables for support equipment were routed down to the second LISN while ensuring that that 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 0. 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.

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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 used 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).

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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 connection to an external antenna.

Conclusion:

The EUT complies with the requirement of §15.203.

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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

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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
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	-
Fairview Microwave	FM2CP1122-10	Directional Coupler *	6/10/2025	Annual	6/10/2026	1946
Keysight Technology	N9040B	UXA Signal Analyzer	9/8/2025	Annual	9/8/2026	MY61320121
Keysight Technology	N9030A	PXA Signal Analyzer	9/15/2025	Annual	9/15/2026	MY49430494
Mini-Circuits	ZN2PD-9G	Power Splitter*	9/16/2025	Annual	9/16/2026	SF456200530
Rohde & Schwarz	TS-PR18	Pre-Amplifier (1GHz - 18GHz)	8/6/2025	Annual	8/6/2026	101639
Rohde & Schwarz	FSW43	Spectrum Analyzer 2Hz to 43GHz	11/21/2024	Annual	11/21/2025	104093
Rohde & Schwarz	ESW44	EMI Test Receiver 2Hz to 44 GHz	5/13/2025	Annual	5/13/2026	101867
Rohde & Schwarz	SMW200A	Vector Signal Generator	3/10/2025	Annual	3/10/2026	110589
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)	10/8/2025	Annual	10/8/2026	00358

Table 6-1. Test Equipment List

Note:

1. 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.
2. * denotes passive equipment that have been internally verified/calibrated.

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7.0 TEST RESULTS

7.1 Summary

Company Name: Apple Inc.
 FCC ID: BCGA3459
 IC: 579C-A3459
 FCC Classification: 15E 6 GHZ Very Low Power Device (6VL)

FCC Part Section(s) / KDB Reference	RSS Section(s)	Test Description	Test Limit	Test Condition	Test Result	Reference
2.1049, 15.407(a)(11)	RSS-Gen [6.7], RSS-248 [4.4]	Occupied Bandwidth/ 26dB Bandwidth	99% of the occupied bandwidth of any channel must be contained within each of its respective U-NII sub bands < 320MHz (5.925 - 7.125GHz)	CONDUCTED	PASS	Section 7.2
15.407(a)(9)	RSS-248 [4.5.6]	Maximum Power Spectral Density	< -5dBm/MHz e.i.r.p for Very Low Power		PASS	Section 7.4
15.407(a)(9)	RSS-248 [4.5.6]	Maximum EIRP	< 14dBm over the frequency band of operation for Very Low Power		PASS	Section 7.3
15.407(b)(7)	RSS-248 [4.6.2]	In-Band Emissions	EUT must meet the limits detailed in 15.407(b)(7) and RSS-248 [4.6.2] b)		PASS	Section 7.5
15.407(d)(6)	RSS-248 [4.7]	Contention Based Protocol	EUT must detect AWGN signal with 90% (or better) certainty		PASS	Section 7.6
15.407(d)(10)	RSS-248[4.6]	Transmit Power Control	EUT must employ a TPC mechanism to operate 6dB below the maximum EIRP PSD value of -5 dBm/MHz		PASS	Section 7.7
15.407(b)(6)	RSS-248 [4.6.2]	Undesirable Emissions	< -27dBm/MHz e.i.r.p. outside of the 5.925 – 7.125GHz band	RADIATED	PASS	Section 7.8
15.205, 15.209	RSS-248 [4.6.2] 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])		PASS	Section 7.8, 7.9.1
15.207	RSS-Gen [8.8]	AC Conducted Emissions 150kHz – 30MHz	< FCC 15.207 (RSS-Gen [8.8]) limits	AC LINE CONDUCTED	PASS	Section 7.10

Table 7-1. Summary of Test Results

Notes:

- All channels, modes, and modulations/data rates were investigated among all UNII bands. The test results shown in the following sections represent the worst case emissions.
- 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.
- 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.
- 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 Software," Version 1.5.0.
- 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.

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7.2 26dB & 99% Bandwidth Measurement

§2.1049, §15.407(a)(11); RSS-Gen [6.7], RSS-248 [4.4]

Test Overview and Limit

The bandwidth at 26dB down from the highest in-band spectral density is measured with a spectrum analyzer connected to the antenna terminal while the EUT is operating at its maximum duty cycle, at its maximum power control level, as defined in ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024 and KDB 789033 D02 v02r01, and at the appropriate frequencies. The spectrum analyzer's bandwidth measurement function is configured to measure the 26dB bandwidth.

Test Procedure Used

ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024 – Section 12.5
KDB 789033 D02 v02r01 – Section C

Test Settings

1. The signal analyzers' automatic bandwidth measurement capability was used to perform the 26dB bandwidth measurement. The "X" dB bandwidth parameter was set to $X = 26$. The automatic bandwidth measurement function also has the capability of simultaneously measuring the 99% occupied bandwidth. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
2. RBW = in the range of 1% to 5% of the emission bandwidth
3. $VBW \geq 3 \times RBW$
4. Detector = Peak
5. Trace mode = max hold

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 antenna configs and power schemes were investigated and only the worst case is reported.
2. Low, mid and high channels were tested, and tabular data has been reported. Only mid channel plots have been reported.

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7.2.1 Antenna WF8 26dB & 99% Bandwidth Measurements (U-NII-5)

Frequency [MHz]	Data Rate [Mbps]	Mode	Power Scheme	Measured 99% Occupied Bandwidth [MHz]	Measured 26dB Bandwidth [MHz]	Maximum Bandwidth Limit [MHz]	Pass / Fail
6106	1.0	NB UNII BDR	ePA	0.931	1.248	320	Pass
6263	1.0	NB UNII BDR	ePA	0.930	1.248	320	Pass
6420	1.0	NB UNII BDR	ePA	0.930	1.248	320	Pass
6106	1.0	NB UNII LE1M	ePA	1.016	1.262	320	Pass
6263	1.0	NB UNII LE1M	ePA	1.015	1.261	320	Pass
6420	1.0	NB UNII LE1M	ePA	1.016	1.261	320	Pass
6106	2.0	NB UNII LE2M	ePA	2.031	2.511	320	Pass
6263	2.0	NB UNII LE2M	ePA	2.031	2.511	320	Pass
6420	2.0	NB UNII LE2M	ePA	2.031	2.511	320	Pass
6106	4.0	NB UNII HDR4	ePA	2.326	2.711	320	Pass
6263	4.0	NB UNII HDR4	ePA	2.325	2.705	320	Pass
6420	4.0	NB UNII HDR4	ePA	2.325	2.710	320	Pass
6107	8.0	NB UNII HDR8	ePA	4.611	5.322	320	Pass
6263	8.0	NB UNII HDR8	ePA	4.612	5.301	320	Pass
6420	8.0	NB UNII HDR8	ePA	4.625	5.302	320	Pass
6106	2.0	NB UNII HDRPS2	ePA	2.386	2.706	320	Pass
6263	2.0	NB UNII HDRPS2	ePA	2.367	2.684	320	Pass
6420	2.0	NB UNII HDRPS2	ePA	2.372	2.675	320	Pass
6107	6.0	NB UNII XHDRPM6	ePA	4.725	5.380	320	Pass
6263	6.0	NB UNII XHDRPM6	ePA	4.714	5.353	320	Pass
6420	6.0	NB UNII XHDRPM6	ePA	4.724	5.358	320	Pass
6107	16.0	NB UNII HDRPM16	ePA	4.663	5.328	320	Pass
6263	16.0	NB UNII HDRPM16	ePA	4.676	5.279	320	Pass
6420	16.0	NB UNII HDRPM16	ePA	4.670	5.348	320	Pass
6109	12.0	NB UNII HDRPL12	ePA	9.358	10.660	320	Pass
6263	12.0	NB UNII HDRPL12	ePA	9.365	10.647	320	Pass
6420	12.0	NB UNII HDRPL12	ePA	9.373	10.660	320	Pass
6109	32.0	NB UNII HDRPL32	ePA	9.269	10.538	320	Pass
6263	32.0	NB UNII HDRPL32	ePA	9.278	10.534	320	Pass
6420	32.0	NB UNII HDRPL32	ePA	9.277	10.549	320	Pass
6106	2.0	NB UNII HDT2	ePA	2.349	2.745	320	Pass
6263	2.0	NB UNII HDT2	ePA	2.349	2.745	320	Pass
6420	2.0	NB UNII HDT2	ePA	2.349	2.745	320	Pass
6106	4.0	NB UNII HDT4	ePA	2.359	2.809	320	Pass
6263	4.0	NB UNII HDT4	ePA	2.358	2.808	320	Pass
6420	4.0	NB UNII HDT4	ePA	2.359	2.808	320	Pass
6106	6.0	NB UNII HDT6	ePA	2.388	2.788	320	Pass
6263	6.0	NB UNII HDT6	ePA	2.388	2.788	320	Pass
6420	6.0	NB UNII HDT6	ePA	2.389	2.786	320	Pass

Table 7-2. Conducted BW Measurements Antenna WF8

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Plot 7-1. 26dB BW & 99% OBW Antenna WF8 (NB UNII BDR, ePA- 6263MHz)



Plot 7-2. 26dB BW & 99% OBW Antenna WF8 (NB UNII LE1M, ePA- 6263MHz)

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Plot 7-3. 26dB BW & 99% OBW Antenna WF8 (NB UNII LE2M, ePA- 6263MHz)

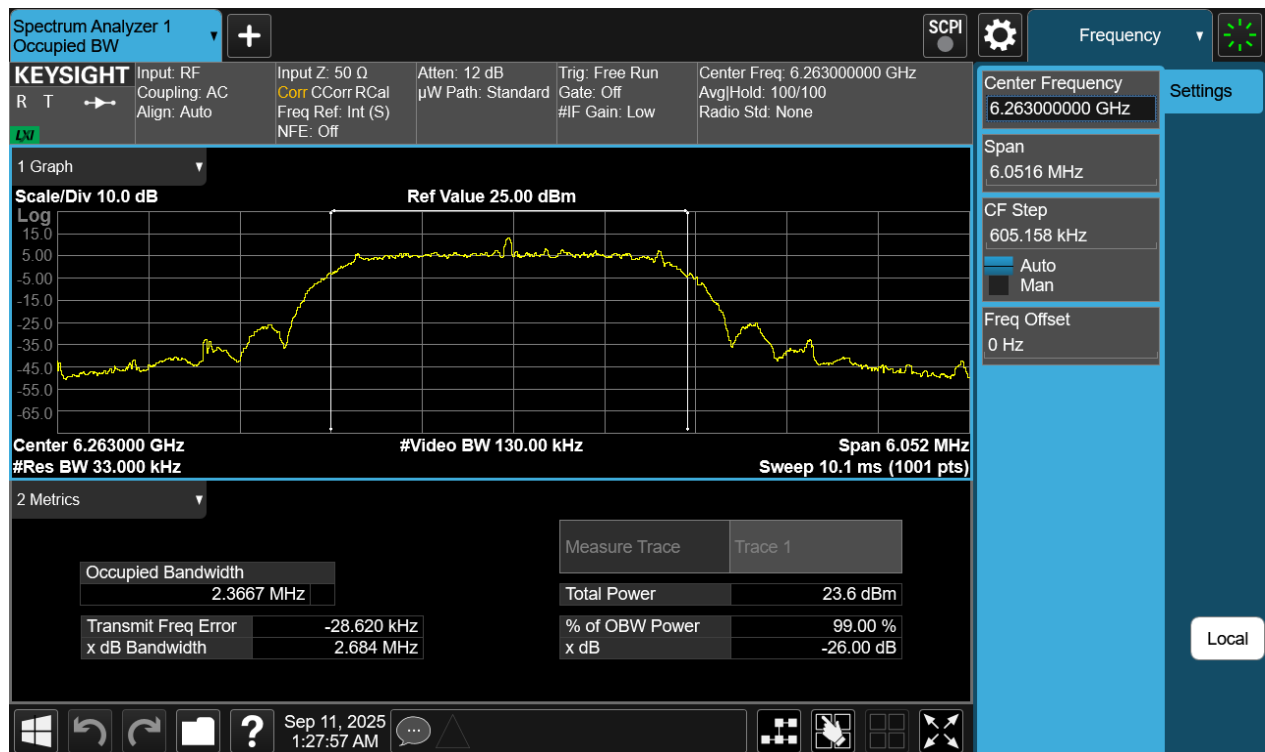


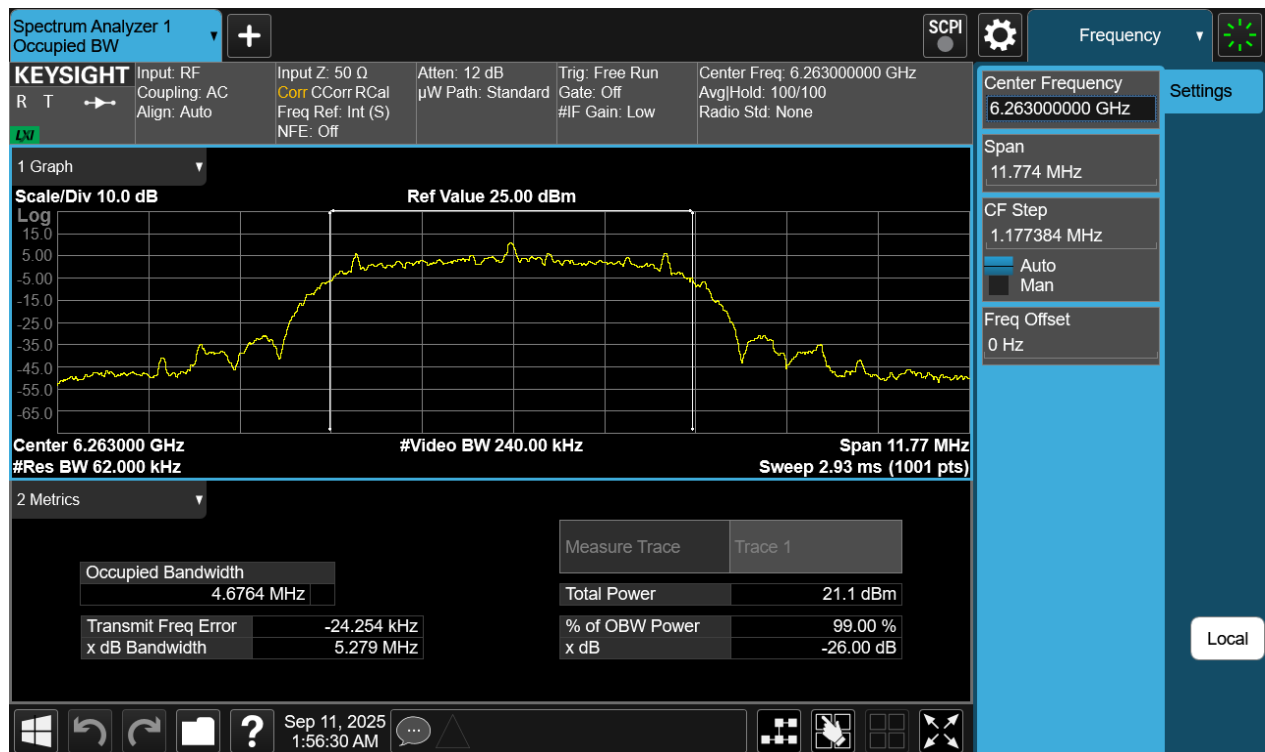
Plot 7-4. 26dB BW & 99% OBW Antenna WF8 (NB UNII HDR4, ePA- 6263MHz)

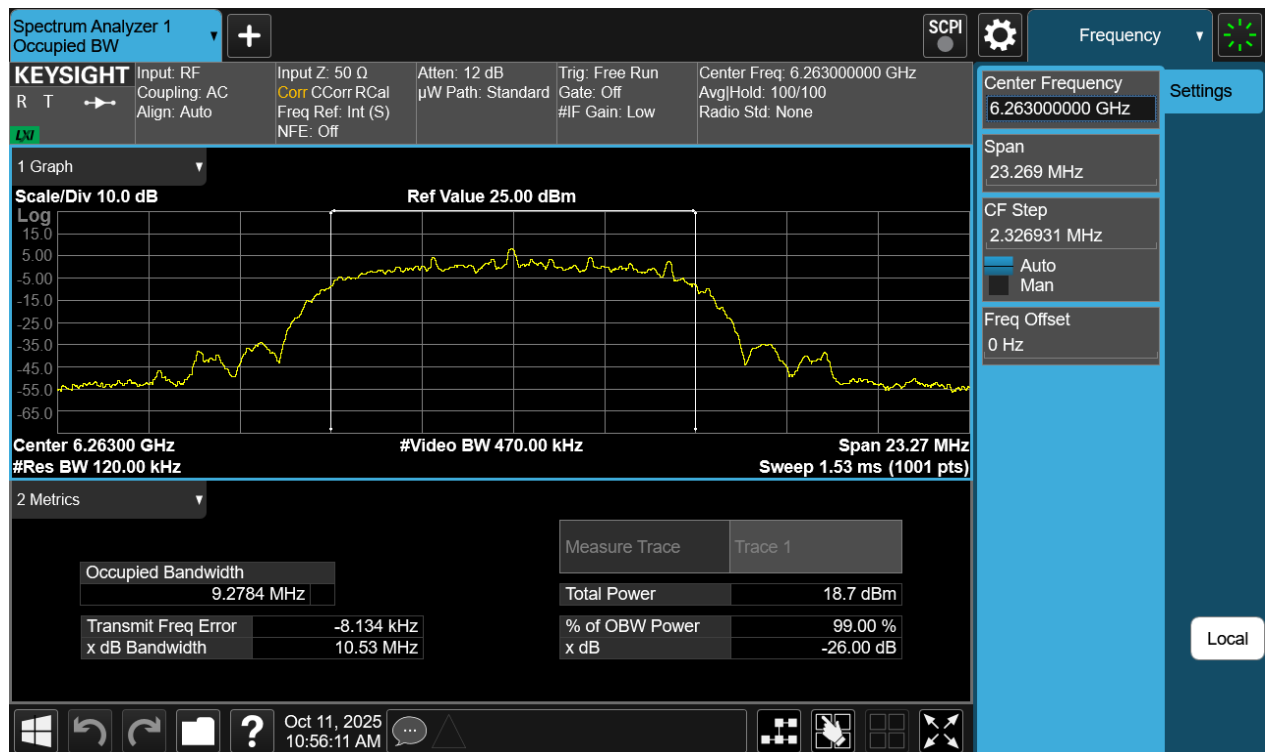
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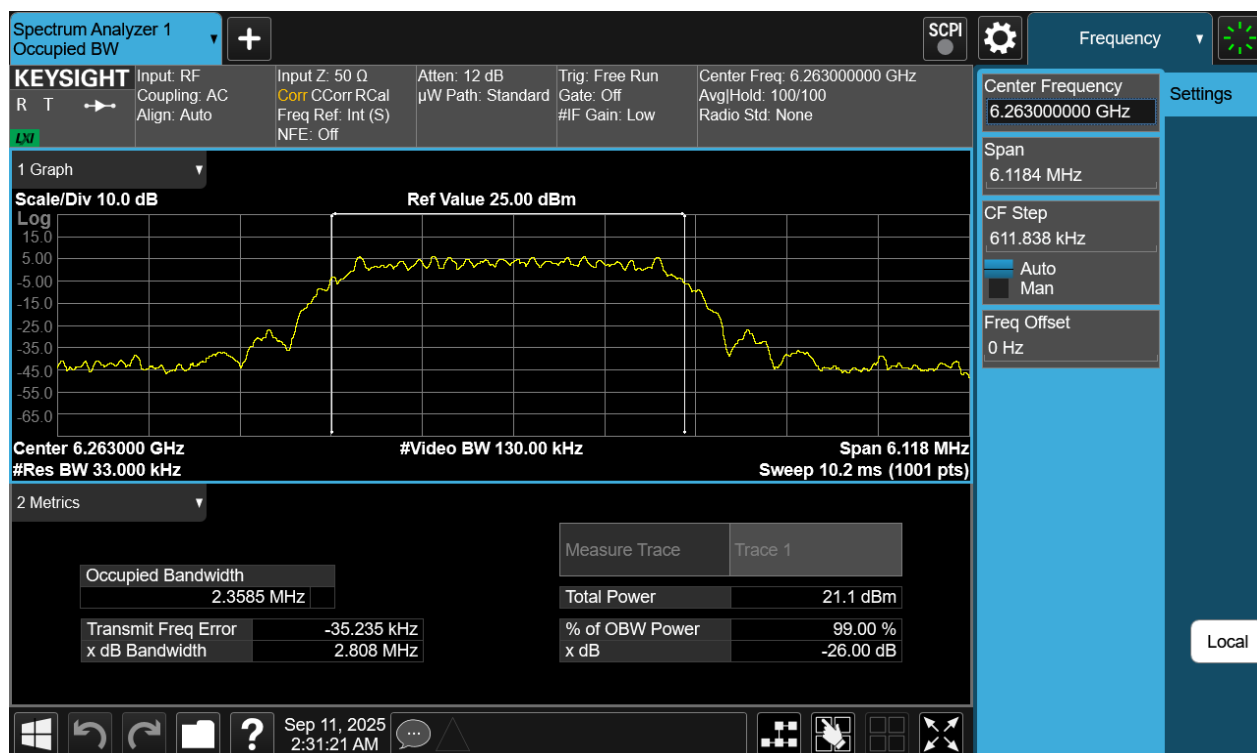
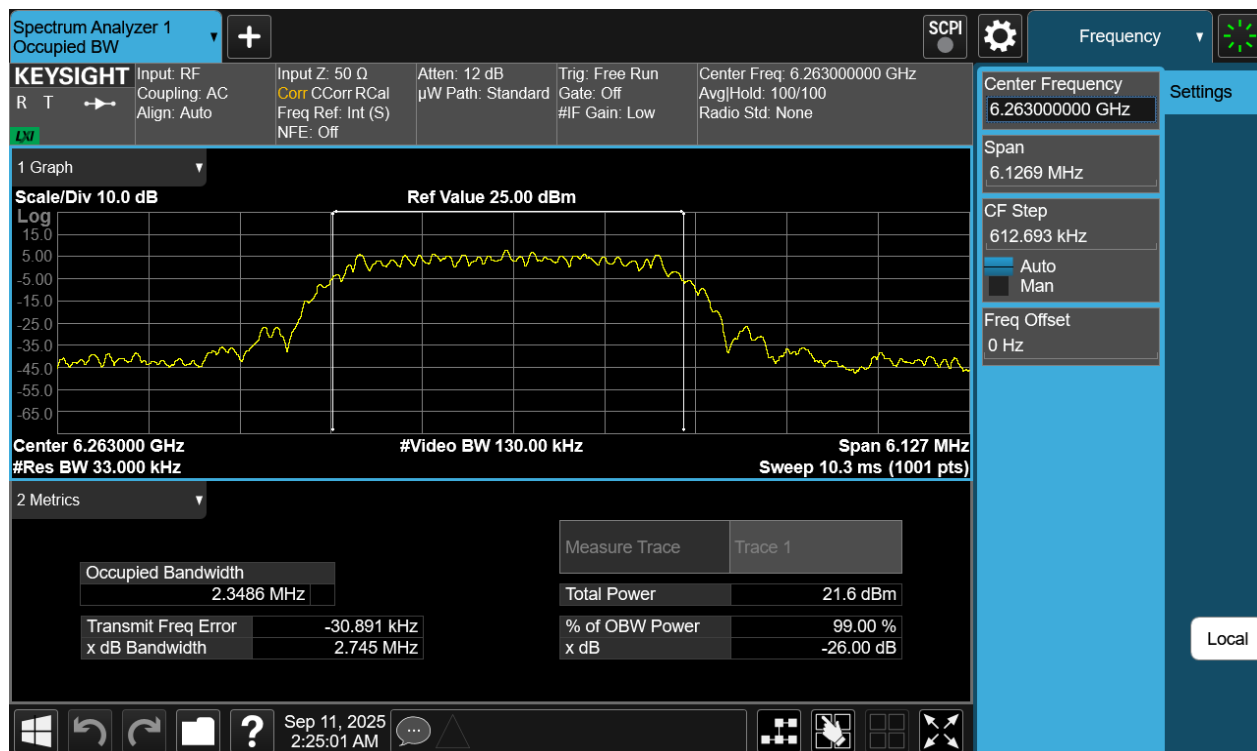
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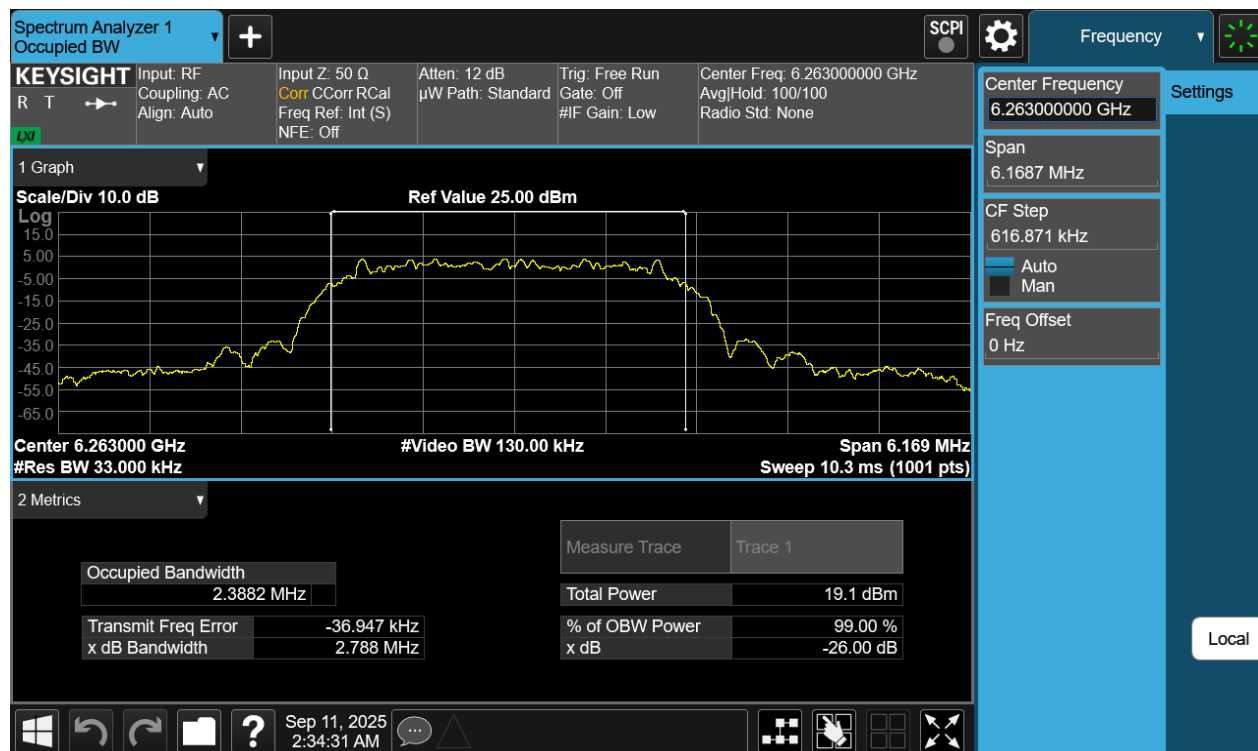




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Plot 7-13. 26dB BW & 99% OBW Antenna WF8 (NB UNII HDT6, ePA- 6263MHz)

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7.2.2 Antenna WF7a 26dB & 99% Bandwidth Measurements (U-NII-5)

Frequency [MHz]	Data Rate [Mbps]	Mode	Power Scheme	Measured 99% Occupied Bandwidth [MHz]	Measured 26dB Bandwidth [MHz]	Maximum Bandwidth Limit [MHz]	Pass / Fail
6106	1.0	NB UNII BDR	ePA	0.930	1.248	320	Pass
6263	1.0	NB UNII BDR	ePA	0.931	1.248	320	Pass
6420	1.0	NB UNII BDR	ePA	0.931	1.248	320	Pass
6106	1.0	NB UNII LE1M	ePA	1.016	1.262	320	Pass
6263	1.0	NB UNII LE1M	ePA	1.016	1.262	320	Pass
6420	1.0	NB UNII LE1M	ePA	1.016	1.262	320	Pass
6106	2.0	NB UNII LE2M	ePA	2.032	2.512	320	Pass
6263	2.0	NB UNII LE2M	ePA	2.032	2.513	320	Pass
6420	2.0	NB UNII LE2M	ePA	2.032	2.511	320	Pass
6106	4.0	NB UNII HDR4	ePA	2.327	2.714	320	Pass
6263	4.0	NB UNII HDR4	ePA	2.324	2.710	320	Pass
6420	4.0	NB UNII HDR4	ePA	2.323	2.707	320	Pass
6107	8.0	NB UNII HDR8	ePA	4.623	5.302	320	Pass
6263	8.0	NB UNII HDR8	ePA	4.615	5.309	320	Pass
6420	8.0	NB UNII HDR8	ePA	4.613	5.307	320	Pass
6106	2.0	NB UNII HDRPS2	ePA	2.379	2.681	320	Pass
6263	2.0	NB UNII HDRPS2	ePA	2.384	2.684	320	Pass
6420	2.0	NB UNII HDRPS2	ePA	2.380	2.686	320	Pass
6107	6.0	NB UNII XHDRPM6	ePA	4.717	5.369	320	Pass
6263	6.0	NB UNII XHDRPM6	ePA	4.726	5.357	320	Pass
6420	6.0	NB UNII XHDRPM6	ePA	4.705	5.358	320	Pass
6107	16.0	NB UNII HDRPM16	ePA	4.676	5.348	320	Pass
6263	16.0	NB UNII HDRPM16	ePA	4.681	5.346	320	Pass
6420	16.0	NB UNII HDRPM16	ePA	4.659	5.294	320	Pass
6109	12.0	NB UNII HDRPL12	ePA	9.347	10.647	320	Pass
6263	12.0	NB UNII HDRPL12	ePA	9.356	10.607	320	Pass
6420	12.0	NB UNII HDRPL12	ePA	9.343	10.642	320	Pass
6109	32.0	NB UNII HDRPL32	ePA	9.273	10.545	320	Pass
6263	32.0	NB UNII HDRPL32	ePA	9.277	10.535	320	Pass
6420	32.0	NB UNII HDRPL32	ePA	9.274	10.550	320	Pass
6106	2.0	NB UNII HDT2	ePA	2.350	2.745	320	Pass
6263	2.0	NB UNII HDT2	ePA	2.349	2.745	320	Pass
6420	2.0	NB UNII HDT2	ePA	2.349	2.744	320	Pass
6106	4.0	NB UNII HDT4	ePA	2.359	2.810	320	Pass
6263	4.0	NB UNII HDT4	ePA	2.359	2.809	320	Pass
6420	4.0	NB UNII HDT4	ePA	2.359	2.805	320	Pass
6106	6.0	NB UNII HDT6	ePA	2.389	2.784	320	Pass
6263	6.0	NB UNII HDT6	ePA	2.389	2.788	320	Pass
6420	6.0	NB UNII HDT6	ePA	2.390	2.784	320	Pass

Table 7-3. Conducted BW Measurements Antenna WF7a

FCC ID: BCGA3459 IC: 579C-A3459		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100079-11-R4.BCG	Test Dates: 09/18/2025 - 12/23/2025	EUT Type: Tablet Device	Page 28 of 209

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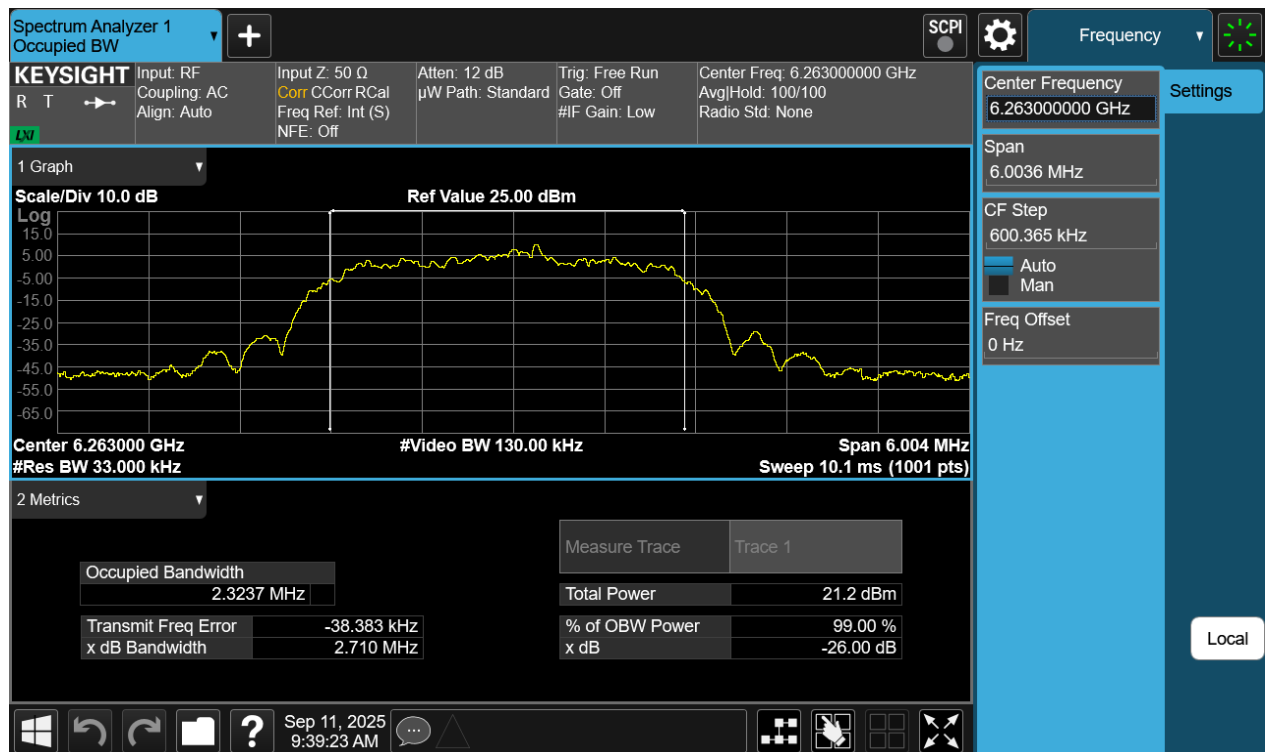
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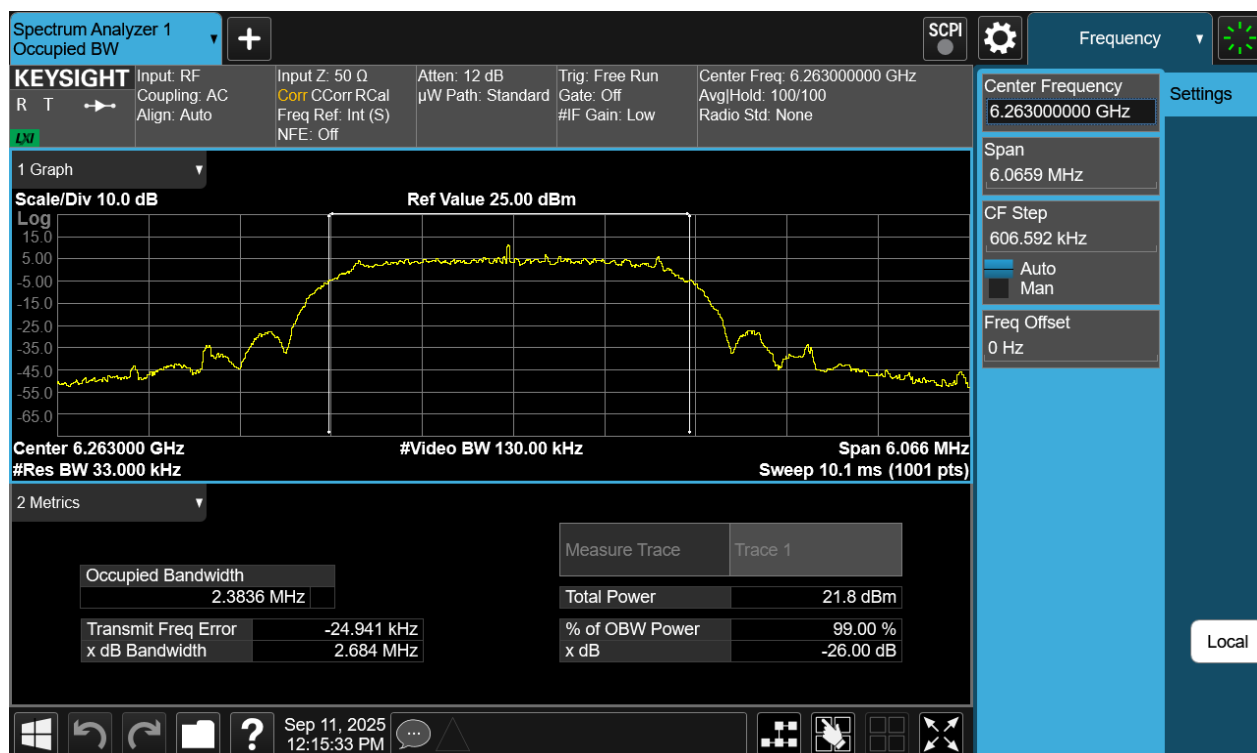
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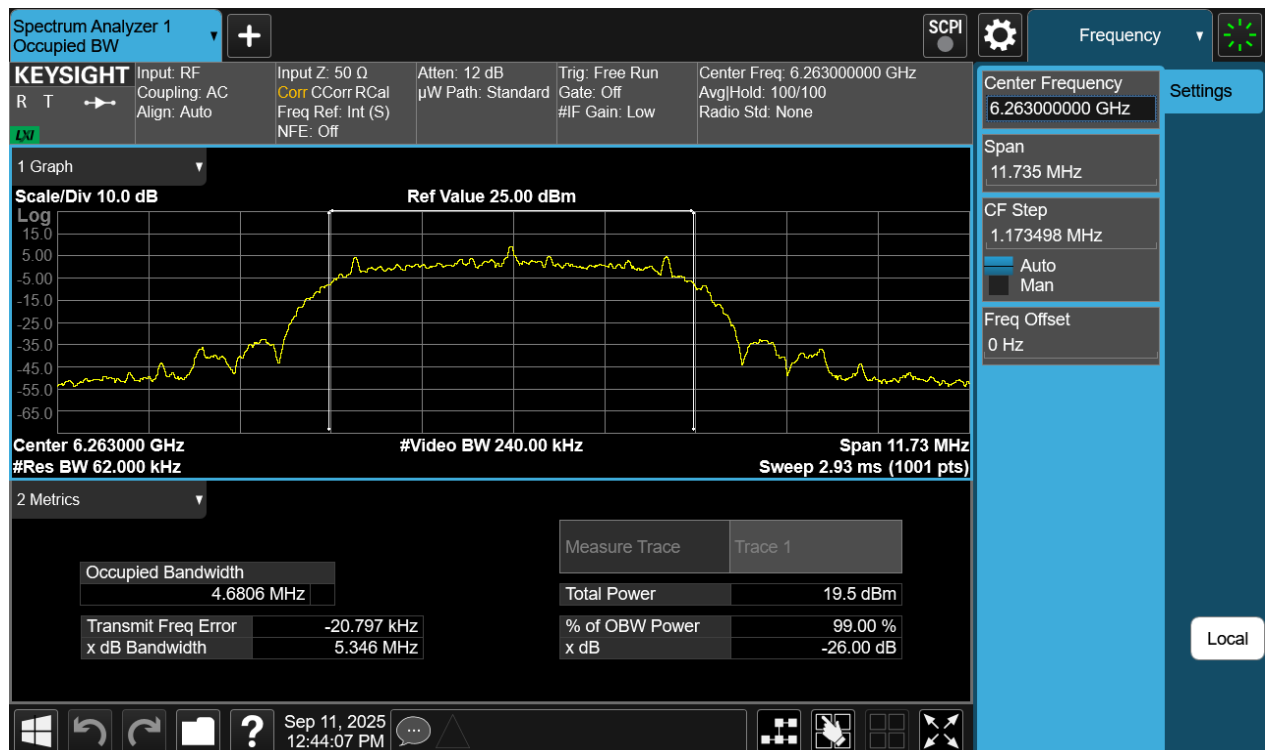
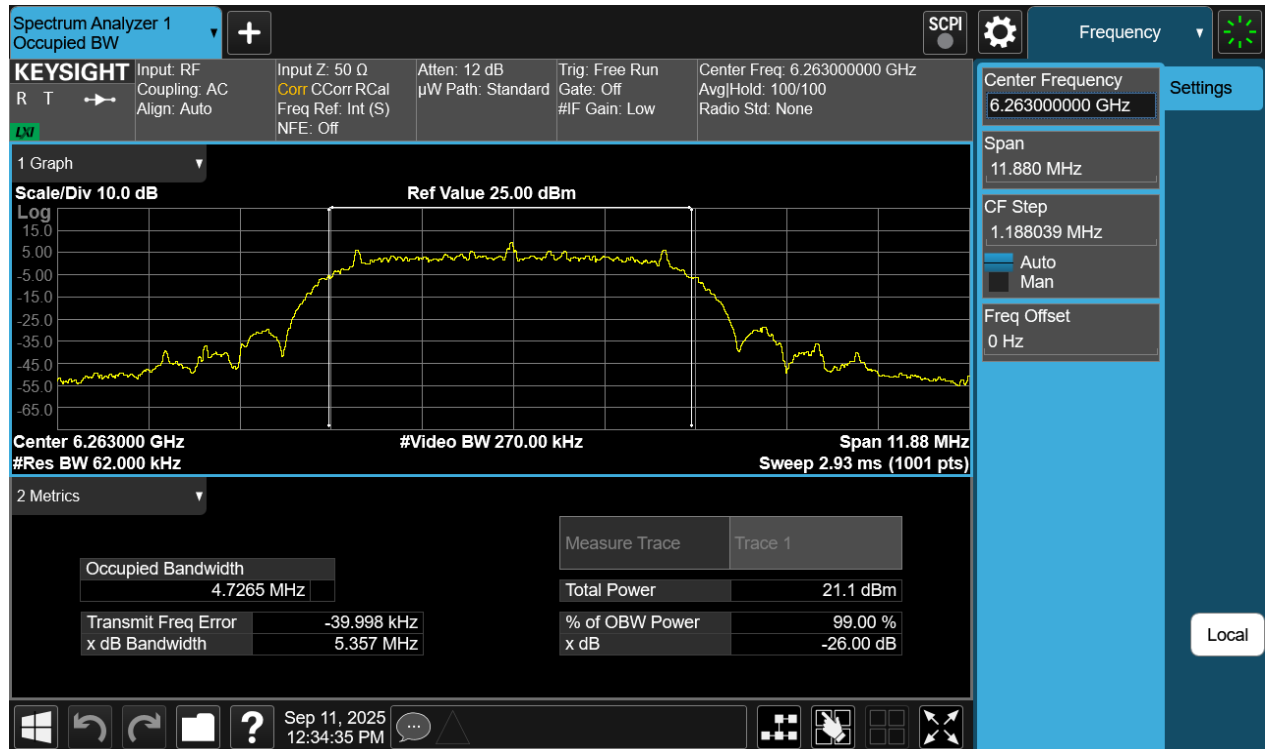
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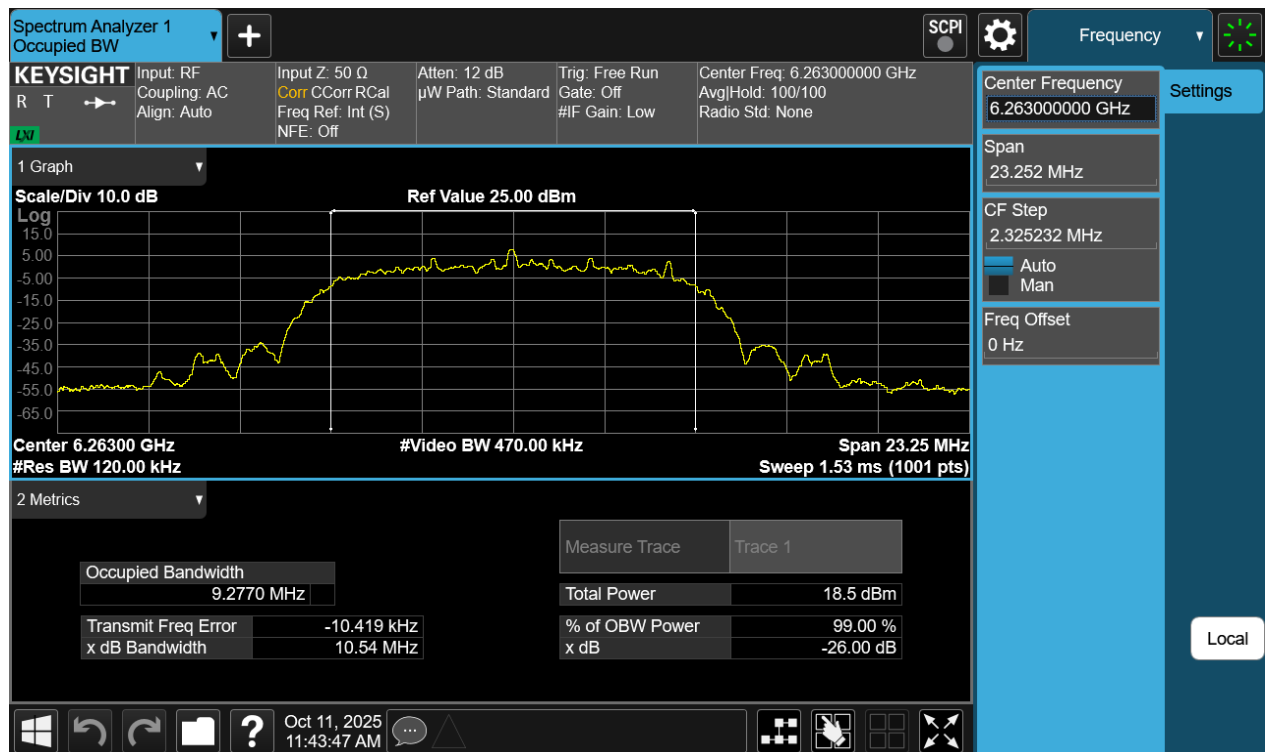
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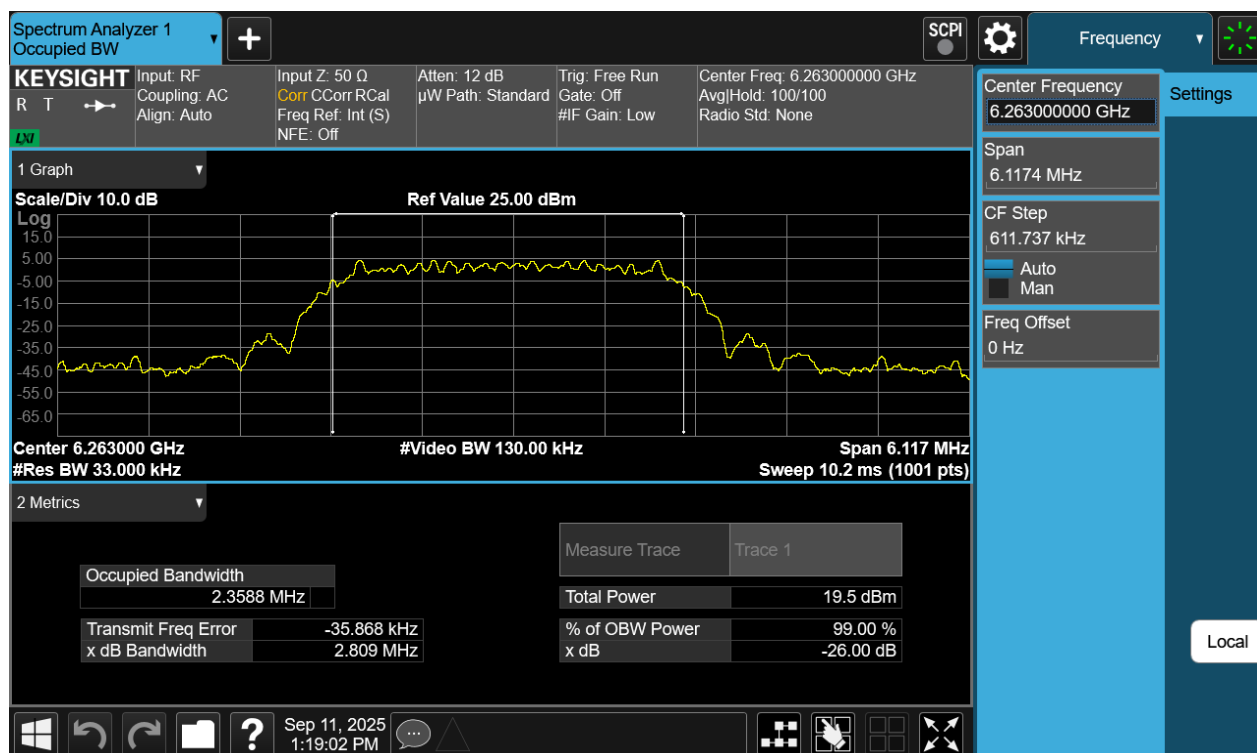
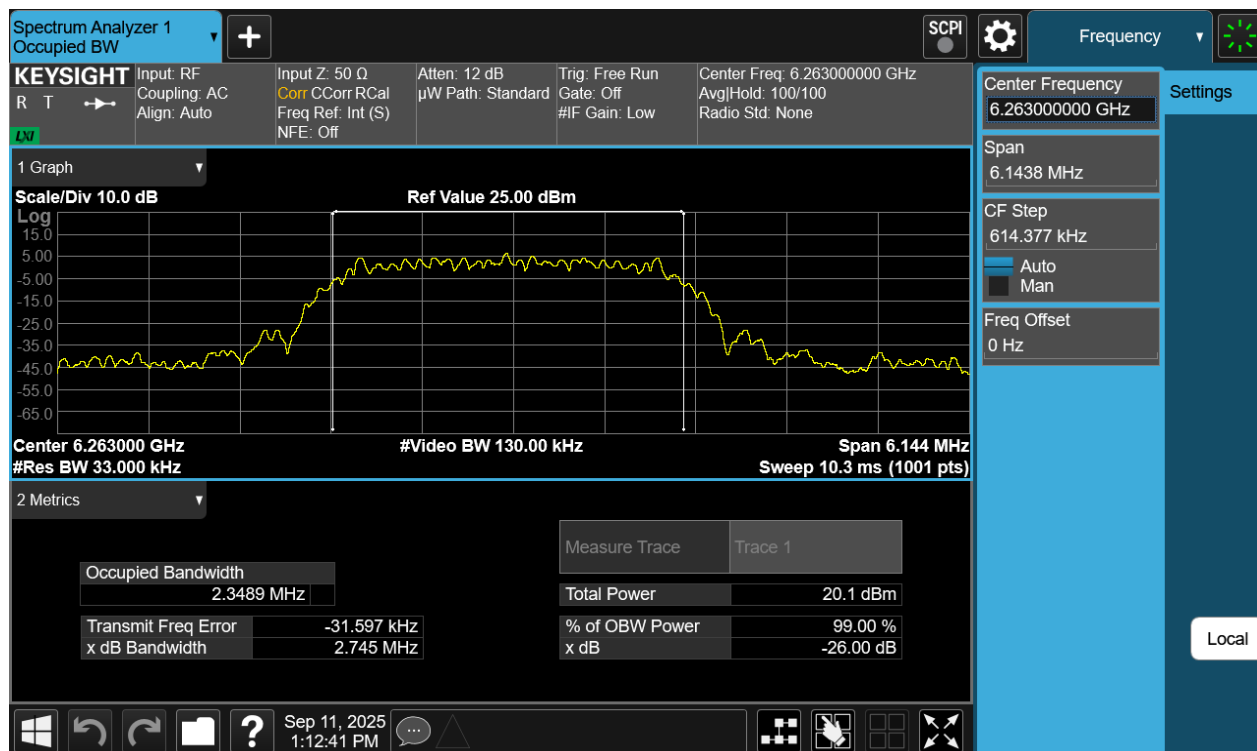
FCC ID: BCGA3459 IC: 579C-A3459		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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7.3 Conducted Output Power and Max EIRP Measurement §15.407(a)(9), RSS-248[4.5.6]

Test Overview and Limits

A transmitter antenna terminal of the EUT is connected to the input of an RF pulse power sensor. Measurement is made using a broadband average power meter while the EUT is operating at its maximum duty cycle, at its maximum power control level, as defined in ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024 and KDB 789033 D02 v02r01, and at the appropriate frequencies.

In the 5.925 – 7.125GHz band, the maximum e.i.r.p. over the frequency band of operation must not exceed 14dBm for Very Low Power (VLP) devices.

Test Procedure Used

ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024 – Subclause 12.4.3.2 Method PM-G
KDB 789033 D02 v02r01 – Section E)3)b) Method PM-G
ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024 – Subclause 14.4 Measure-and-Sum Technique
KDB 662911 v02r01 – Section E)1) Measure-and-Sum Technique

Test Settings

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 diagram below.



Figure 7-2. Test Instrument & Measurement Setup

Test Notes

None

FCC ID: BCGA3459 IC: 579C-A3459	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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7.3.1 Conducted Output Power and Max EIRP Measurements

Frequency [MHz]	Data Rate	Mode	Power Scheme	Conducted Powers [dBm]	Antenna Gain [dBi]	Max e.i.r.p [dBm]	Max e.i.r.p Limit [dBm]	e.i.r.p Margin [dBm]
6106	1.0	NB UNII BDR	ePA	-10.62	3.8	-6.82	14.00	-20.82
6263	1.0	NB UNII BDR	ePA	-10.96	3.4	-7.56	14.00	-21.56
6420	1.0	NB UNII BDR	ePA	-10.71	1.0	-9.71	14.00	-23.71
6106	1.0	NB UNII BDR	IPA	-10.72	3.8	-6.92	14.00	-20.92
6263	1.0	NB UNII BDR	IPA	-10.69	3.4	-7.29	14.00	-21.29
6420	1.0	NB UNII BDR	IPA	-10.52	1.0	-9.52	14.00	-23.52
6106	1.0	NB UNII LE1M	ePA	-11.00	3.8	-7.20	14.00	-21.20
6263	1.0	NB UNII LE1M	ePA	-10.63	3.4	-7.23	14.00	-21.23
6420	1.0	NB UNII LE1M	ePA	-10.61	1.0	-9.61	14.00	-23.61
6106	1.0	NB UNII LE1M	IPA	-10.36	3.8	-6.56	14.00	-20.56
6263	1.0	NB UNII LE1M	IPA	-10.28	3.4	-6.88	14.00	-20.88
6420	1.0	NB UNII LE1M	IPA	-10.61	1.0	-9.61	14.00	-23.61
6106	2.0	NB UNII LE2M	ePA	-9.55	3.8	-5.75	14.00	-19.75
6263	2.0	NB UNII LE2M	ePA	-9.74	3.4	-6.34	14.00	-20.34
6420	2.0	NB UNII LE2M	ePA	-9.80	1.0	-8.80	14.00	-22.80
6106	2.0	NB UNII LE2M	IPA	-9.63	3.8	-5.83	14.00	-19.83
6263	2.0	NB UNII LE2M	IPA	-9.58	3.4	-6.18	14.00	-20.18
6420	2.0	NB UNII LE2M	IPA	-9.78	1.0	-8.78	14.00	-22.78
6106	4.0	NB UNII HDR4	ePA	-8.06	3.8	-4.26	14.00	-18.26
6263	4.0	NB UNII HDR4	ePA	-8.19	3.4	-4.79	14.00	-18.79
6420	4.0	NB UNII HDR4	ePA	-8.27	1.0	-7.27	14.00	-21.27
6106	4.0	NB UNII HDR4	IPA	-8.30	3.8	-4.50	14.00	-18.50
6263	4.0	NB UNII HDR4	IPA	-8.22	3.4	-4.82	14.00	-18.82
6420	4.0	NB UNII HDR4	IPA	-8.02	1.0	-7.02	14.00	-21.02
6107	8.0	NB UNII HDR8	ePA	-6.61	3.8	-2.81	14.00	-16.81
6263	8.0	NB UNII HDR8	ePA	-6.70	3.4	-3.30	14.00	-17.30
6420	8.0	NB UNII HDR8	ePA	-6.95	1.0	-5.95	14.00	-19.95
6107	8.0	NB UNII HDR8	IPA	-6.75	3.8	-2.95	14.00	-16.95
6263	8.0	NB UNII HDR8	IPA	-6.64	3.4	-3.24	14.00	-17.24
6420	8.0	NB UNII HDR8	IPA	-6.56	1.0	-5.56	14.00	-19.56
6106	2.0	NB UNII HDRPS2	ePA	-8.07	3.8	-4.27	14.00	-18.27
6263	2.0	NB UNII HDRPS2	ePA	-8.25	3.4	-4.85	14.00	-18.85
6420	2.0	NB UNII HDRPS2	ePA	-8.17	1.0	-7.17	14.00	-21.17
6106	2.0	NB UNII HDRPS2	IPA	-8.36	3.8	-4.56	14.00	-18.56
6263	2.0	NB UNII HDRPS2	IPA	-8.31	3.4	-4.91	14.00	-18.91
6420	2.0	NB UNII HDRPS2	IPA	-8.16	1.0	-7.16	14.00	-21.16
6107	6.0	NB UNII XHDRPM6	ePA	-5.61	3.8	-1.81	14.00	-15.81
6263	6.0	NB UNII XHDRPM6	ePA	-5.27	3.4	-1.87	14.00	-15.87
6420	6.0	NB UNII XHDRPM6	ePA	-5.43	1.0	-4.43	14.00	-18.43
6107	6.0	NB UNII XHDRPM6	IPA	-5.34	3.8	-1.54	14.00	-15.54
6263	6.0	NB UNII XHDRPM6	IPA	-5.31	3.4	-1.91	14.00	-15.91
6420	6.0	NB UNII XHDRPM6	IPA	-5.59	1.0	-4.59	14.00	-18.59
6107	16.0	NB UNII HDRPM16	ePA	-5.70	3.8	-1.90	14.00	-15.90
6263	16.0	NB UNII HDRPM16	ePA	-5.37	3.4	-1.97	14.00	-15.97
6420	16.0	NB UNII HDRPM16	ePA	-5.35	1.0	-4.35	14.00	-18.35
6107	16.0	NB UNII HDRPM16	IPA	-5.71	3.8	-1.91	14.00	-15.91
6263	16.0	NB UNII HDRPM16	IPA	-5.56	3.4	-2.16	14.00	-16.16
6420	16.0	NB UNII HDRPM16	IPA	-5.39	1.0	-4.39	14.00	-18.39
6109	12.0	NB UNII HDRPL12	ePA	-2.40	3.8	1.40	14.00	-12.60
6263	12.0	NB UNII HDRPL12	ePA	-2.40	3.4	1.00	14.00	-13.00
6420	12.0	NB UNII HDRPL12	ePA	-2.57	1.0	-1.57	14.00	-15.57
6109	12.0	NB UNII HDRPL12	IPA	-2.33	3.8	1.47	14.00	-12.53
6263	12.0	NB UNII HDRPL12	IPA	-2.69	3.4	0.71	14.00	-13.29
6420	12.0	NB UNII HDRPL12	IPA	-2.38	1.0	-1.38	14.00	-15.38
6109	32.0	NB UNII HDRPL32	ePA	-2.86	3.8	0.94	14.00	-13.06
6263	32.0	NB UNII HDRPL32	ePA	-2.83	3.4	0.57	14.00	-13.43
6420	32.0	NB UNII HDRPL32	ePA	-2.70	1.0	-1.70	14.00	-15.70
6109	32.0	NB UNII HDRPL32	IPA	-2.78	3.8	1.02	14.00	-12.98
6263	32.0	NB UNII HDRPL32	IPA	-2.73	3.4	0.67	14.00	-13.33
6420	32.0	NB UNII HDRPL32	IPA	-2.87	1.0	-1.87	14.00	-15.87
6106	2.0	NB UNII HDT2	ePA	-8.15	3.8	-4.35	14.00	-18.35
6263	2.0	NB UNII HDT2	ePA	-7.96	3.4	-4.56	14.00	-18.56
6420	2.0	NB UNII HDT2	ePA	-7.86	1.0	-6.86	14.00	-20.86
6106	2.0	NB UNII HDT2	IPA	-7.99	3.8	-4.19	14.00	-18.19
6263	2.0	NB UNII HDT2	IPA	-7.88	3.4	-4.48	14.00	-18.48
6420	2.0	NB UNII HDT2	IPA	-8.20	1.0	-7.20	14.00	-21.20
6106	4.0	NB UNII HDT4	ePA	-8.14	3.8	-4.34	14.00	-18.34
6263	4.0	NB UNII HDT4	ePA	-7.95	3.4	-4.55	14.00	-18.55
6420	4.0	NB UNII HDT4	ePA	-7.88	1.0	-6.88	14.00	-20.88
6106	4.0	NB UNII HDT4	IPA	-8.01	3.8	-4.21	14.00	-18.21
6263	4.0	NB UNII HDT4	IPA	-7.91	3.4	-4.51	14.00	-18.51
6420	4.0	NB UNII HDT4	IPA	-8.21	1.0	-7.21	14.00	-21.21
6106	6.0	NB UNII HDT6	ePA	-8.07	3.8	-4.27	14.00	-18.27
6263	6.0	NB UNII HDT6	ePA	-8.21	3.4	-4.81	14.00	-18.81
6420	6.0	NB UNII HDT6	ePA	-8.22	1.0	-7.22	14.00	-21.22
6106	6.0	NB UNII HDT6	IPA	-8.42	3.8	-4.62	14.00	-18.62
6263	6.0	NB UNII HDT6	IPA	-8.35	3.4	-4.95	14.00	-18.95
6420	6.0	NB UNII HDT6	IPA	-8.12	1.0	-7.12	14.00	-21.12

Table 7-4. Antenna WF8 Maximum Conducted Output Power and Max EIRP

FCC ID: BCGA3459 IC: 579C-A3459		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100079-11-R4.BCG	Test Dates: 09/18/2025 - 12/23/2025	EUT Type: Tablet Device	Page 37 of 209

Frequency [MHz]	Data Rate	Mode	Power Scheme	Conducted Powers [dBm]	Antenna Gain [dBi]	Max e.i.r.p [dBm]	Max e.i.r.p Limit [dBm]	e.i.r.p Margin [dBm]
6106	1.0	NB UNII BDR	ePA	-10.35	3.1	-7.25	14.00	-21.25
6263	1.0	NB UNII BDR	ePA	-10.44	2.5	-7.94	14.00	-21.94
6420	1.0	NB UNII BDR	ePA	-10.52	3.5	-7.02	14.00	-21.02
6106	1.0	NB UNII BDR	IPA	-10.50	3.1	-7.40	14.00	-21.40
6263	1.0	NB UNII BDR	IPA	-10.43	2.5	-7.93	14.00	-21.93
6420	1.0	NB UNII BDR	IPA	-10.40	3.5	-6.90	14.00	-20.90
6106	1.0	NB UNII LE1M	ePA	-10.47	3.1	-7.37	14.00	-21.37
6263	1.0	NB UNII LE1M	ePA	-10.07	2.5	-7.57	14.00	-21.57
6420	1.0	NB UNII LE1M	ePA	-10.23	3.5	-6.73	14.00	-20.73
6106	1.0	NB UNII LE1M	IPA	-10.08	3.1	-6.98	14.00	-20.98
6263	1.0	NB UNII LE1M	IPA	-10.08	2.5	-7.58	14.00	-21.58
6420	1.0	NB UNII LE1M	IPA	-10.52	3.5	-7.02	14.00	-21.02
6106	2.0	NB UNII LE2M	ePA	-9.57	3.1	-6.47	14.00	-20.47
6263	2.0	NB UNII LE2M	ePA	-9.25	2.5	-6.75	14.00	-20.75
6420	2.0	NB UNII LE2M	ePA	-9.45	3.5	-5.95	14.00	-19.95
6106	2.0	NB UNII LE2M	IPA	-9.31	3.1	-6.21	14.00	-20.21
6263	2.0	NB UNII LE2M	IPA	-9.38	2.5	-6.88	14.00	-20.88
6420	2.0	NB UNII LE2M	IPA	-9.32	3.5	-5.82	14.00	-19.82
6106	4.0	NB UNII HDR4	ePA	-8.18	3.1	-5.08	14.00	-19.08
6263	4.0	NB UNII HDR4	ePA	-8.43	2.5	-5.93	14.00	-19.93
6420	4.0	NB UNII HDR4	ePA	-8.04	3.5	-4.54	14.00	-18.54
6106	4.0	NB UNII HDR4	IPA	-8.02	3.1	-4.92	14.00	-18.92
6263	4.0	NB UNII HDR4	IPA	-8.05	2.5	-5.55	14.00	-19.55
6420	4.0	NB UNII HDR4	IPA	-8.46	3.5	-4.96	14.00	-18.96
6107	8.0	NB UNII HDR8	ePA	-6.70	3.1	-3.60	14.00	-17.60
6263	8.0	NB UNII HDR8	ePA	-6.32	2.5	-3.82	14.00	-17.82
6420	8.0	NB UNII HDR8	ePA	-6.92	3.5	-3.42	14.00	-17.42
6107	8.0	NB UNII HDR8	IPA	-6.53	3.1	-3.43	14.00	-17.43
6263	8.0	NB UNII HDR8	IPA	-6.50	2.5	-4.00	14.00	-18.00
6420	8.0	NB UNII HDR8	IPA	-6.46	3.5	-2.96	14.00	-16.96
6106	2.0	NB UNII HDRPS2	ePA	-8.46	3.1	-5.36	14.00	-19.36
6263	2.0	NB UNII HDRPS2	ePA	-8.15	2.5	-5.65	14.00	-19.65
6420	2.0	NB UNII HDRPS2	ePA	-8.17	3.5	-4.67	14.00	-18.67
6106	2.0	NB UNII HDRPS2	IPA	-8.11	3.1	-5.01	14.00	-19.01
6263	2.0	NB UNII HDRPS2	IPA	-8.13	2.5	-5.63	14.00	-19.63
6420	2.0	NB UNII HDRPS2	IPA	-8.46	3.5	-4.96	14.00	-18.96
6107	6.0	NB UNII XHDRPM6	ePA	-5.53	3.1	-2.43	14.00	-16.43
6263	6.0	NB UNII XHDRPM6	ePA	-5.52	2.5	-3.02	14.00	-17.02
6420	6.0	NB UNII XHDRPM6	ePA	-5.47	3.5	-1.97	14.00	-15.97
6107	6.0	NB UNII XHDRPM6	IPA	-5.41	3.1	-2.31	14.00	-16.31
6263	6.0	NB UNII XHDRPM6	IPA	-5.39	2.5	-2.89	14.00	-16.89
6420	6.0	NB UNII XHDRPM6	IPA	-5.33	3.5	-1.83	14.00	-15.83
6107	16.0	NB UNII HDRPM16	ePA	-5.67	3.1	-2.57	14.00	-16.57
6263	16.0	NB UNII HDRPM16	ePA	-5.67	2.5	-3.17	14.00	-17.17
6420	16.0	NB UNII HDRPM16	ePA	-5.48	3.5	-1.98	14.00	-15.98
6107	16.0	NB UNII HDRPM16	IPA	-5.56	3.1	-2.46	14.00	-16.46
6263	16.0	NB UNII HDRPM16	IPA	-5.74	2.5	-3.24	14.00	-17.24
6420	16.0	NB UNII HDRPM16	IPA	-5.59	3.5	-2.09	14.00	-16.09
6109	12.0	NB UNII HDRPL12	ePA	-2.48	3.1	0.62	14.00	-13.38
6263	12.0	NB UNII HDRPL12	ePA	-2.53	2.5	-0.03	14.00	-14.03
6420	12.0	NB UNII HDRPL12	ePA	-2.57	3.5	0.93	14.00	-13.07
6109	12.0	NB UNII HDRPL12	IPA	-2.63	3.1	0.47	14.00	-13.53
6263	12.0	NB UNII HDRPL12	IPA	-2.74	2.5	-0.24	14.00	-14.24
6420	12.0	NB UNII HDRPL12	IPA	-2.70	3.5	0.80	14.00	-13.20
6109	32.0	NB UNII HDRPL32	ePA	-2.61	3.1	0.49	14.00	-13.51
6263	32.0	NB UNII HDRPL32	ePA	-2.62	2.5	-0.12	14.00	-14.12
6420	32.0	NB UNII HDRPL32	ePA	-2.65	3.5	0.85	14.00	-13.15
6109	32.0	NB UNII HDRPL32	IPA	-2.85	3.1	0.25	14.00	-13.75
6263	32.0	NB UNII HDRPL32	IPA	-2.68	2.5	-0.18	14.00	-14.18
6420	32.0	NB UNII HDRPL32	IPA	-2.93	3.5	0.57	14.00	-13.43
6106	2.0	NB UNII HDT2	ePA	-8.01	3.1	-4.91	14.00	-18.91
6263	2.0	NB UNII HDT2	ePA	-7.88	2.5	-5.38	14.00	-19.38
6420	2.0	NB UNII HDT2	ePA	-7.97	3.5	-4.47	14.00	-18.47
6106	2.0	NB UNII HDT2	IPA	-8.01	3.1	-4.91	14.00	-18.91
6263	2.0	NB UNII HDT2	IPA	-7.99	2.5	-5.49	14.00	-19.49
6420	2.0	NB UNII HDT2	IPA	-8.03	3.5	-4.53	14.00	-18.53
6106	4.0	NB UNII HDT4	ePA	-7.96	3.1	-4.86	14.00	-18.86
6263	4.0	NB UNII HDT4	ePA	-7.52	2.5	-5.02	14.00	-19.02
6420	4.0	NB UNII HDT4	ePA	-7.67	3.5	-4.17	14.00	-18.17
6106	4.0	NB UNII HDT4	IPA	-7.51	3.1	-4.41	14.00	-18.41
6263	4.0	NB UNII HDT4	IPA	-7.82	2.5	-5.32	14.00	-19.32
6420	4.0	NB UNII HDT4	IPA	-7.61	3.5	-4.11	14.00	-18.11
6106	6.0	NB UNII HDT6	ePA	-8.28	3.1	-5.18	14.00	-19.18
6263	6.0	NB UNII HDT6	ePA	-8.24	2.5	-5.74	14.00	-19.74
6420	6.0	NB UNII HDT6	ePA	-8.46	3.5	-4.96	14.00	-18.96
6106	6.0	NB UNII HDT6	IPA	-8.44	3.1	-5.34	14.00	-19.34
6263	6.0	NB UNII HDT6	IPA	-8.46	2.5	-5.96	14.00	-19.96
6420	6.0	NB UNII HDT6	IPA	-8.37	3.5	-4.87	14.00	-18.87

Table 7-5. Antenna WF7a Maximum Conducted Output Power and Max EIRP

FCC ID: BCGA3459 IC: 579C-A3459		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100079-11-R4.BCG	Test Dates: 09/18/2025 - 12/23/2025	EUT Type: Tablet Device	Page 38 of 209

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Frequency [MHz]	Data Rate	Mode	Power Scheme	Conducted Powers [dBm]			Antenna Gain [dBi]	Max e.i.r.p [dBm]	Max e.i.r.p Limit [dBm]	e.i.r.p Margin [dBm]
				Antenna WF8	Antenna WF7a	Summed				
6106	1.0	NB UNII BDR	ePA	-16.55	-16.83	-13.67	6.47	-7.20	14.00	-21.20
6263	1.0	NB UNII BDR	ePA	-17.00	-17.15	-14.09	5.97	-8.12	14.00	-22.12
6420	1.0	NB UNII BDR	ePA	-16.66	-16.70	-13.67	5.35	-8.32	14.00	-22.32
6106	1.0	NB UNII BDR	IPA	-16.94	-16.86	-13.87	6.47	-7.40	14.00	-21.40
6263	1.0	NB UNII BDR	IPA	-16.81	-16.55	-13.67	5.97	-7.70	14.00	-21.70
6420	1.0	NB UNII BDR	IPA	-16.72	-16.77	-13.77	5.35	-8.42	14.00	-22.42
6106	1.0	NB UNII LE1M	ePA	-16.36	-16.37	-13.37	6.47	-6.90	14.00	-20.90
6263	1.0	NB UNII LE1M	ePA	-16.73	-16.72	-13.77	5.97	-7.80	14.00	-21.80
6420	1.0	NB UNII LE1M	ePA	-16.40	-16.35	-13.37	5.35	-8.02	14.00	-22.02
6106	1.0	NB UNII LE1M	IPA	-16.43	-16.30	-13.37	6.47	-6.90	14.00	-20.90
6263	1.0	NB UNII LE1M	IPA	-16.30	-16.70	-13.57	5.97	-7.60	14.00	-21.60
6420	1.0	NB UNII LE1M	IPA	-16.63	-16.37	-13.47	5.35	-8.12	14.00	-22.12
6106	2.0	NB UNII LE2M	ePA	-15.69	-16.11	-12.92	6.47	-6.45	14.00	-20.45
6263	2.0	NB UNII LE2M	ePA	-15.63	-15.74	-12.68	5.97	-6.71	14.00	-20.71
6420	2.0	NB UNII LE2M	ePA	-15.77	-15.51	-12.68	5.35	-7.33	14.00	-21.33
6106	2.0	NB UNII LE2M	IPA	-15.57	-15.56	-12.52	6.47	-6.05	14.00	-20.05
6263	2.0	NB UNII LE2M	IPA	-15.77	-15.96	-12.92	5.97	-6.95	14.00	-20.95
6420	2.0	NB UNII LE2M	IPA	-15.67	-15.52	-12.60	5.35	-7.25	14.00	-21.25
6106	4.0	NB UNII HDR4	ePA	-14.27	-14.42	-11.37	6.47	-4.90	14.00	-18.90
6263	4.0	NB UNII HDR4	ePA	-14.19	-14.28	-11.25	5.97	-5.28	14.00	-19.28
6420	4.0	NB UNII HDR4	ePA	-14.03	-14.47	-11.19	5.35	-5.84	14.00	-19.84
6106	4.0	NB UNII HDR4	IPA	-14.21	-14.48	-11.31	6.47	-4.84	14.00	-18.84
6263	4.0	NB UNII HDR4	IPA	-14.16	-14.06	-11.14	5.97	-5.17	14.00	-19.17
6420	4.0	NB UNII HDR4	IPA	-14.37	-14.46	-11.37	5.35	-6.02	14.00	-20.02
6107	8.0	NB UNII HDR8	ePA	-12.69	-12.62	-9.63	6.47	-3.16	14.00	-17.16
6263	8.0	NB UNII HDR8	ePA	-12.88	-13.14	-9.96	5.97	-3.99	14.00	-17.99
6420	8.0	NB UNII HDR8	ePA	-12.66	-12.55	-9.59	5.35	-4.24	14.00	-18.24
6107	8.0	NB UNII HDR8	IPA	-12.99	-12.56	-9.79	6.47	-3.32	14.00	-17.32
6263	8.0	NB UNII HDR8	IPA	-12.76	-12.64	-9.71	5.97	-3.74	14.00	-17.74
6420	8.0	NB UNII HDR8	IPA	-12.73	-12.56	-9.67	5.35	-4.32	14.00	-18.32
6106	2.0	NB UNII HDRPS2	ePA	-14.31	-14.70	-11.49	6.47	-5.02	14.00	-19.02
6263	2.0	NB UNII HDRPS2	ePA	-14.14	-14.06	-11.08	5.97	-5.11	14.00	-19.11
6420	2.0	NB UNII HDRPS2	ePA	-14.30	-14.35	-11.31	5.35	-5.96	14.00	-19.96
6106	2.0	NB UNII HDRPS2	IPA	-14.19	-14.25	-11.19	6.47	-4.72	14.00	-18.72
6263	2.0	NB UNII HDRPS2	IPA	-14.08	-14.11	-11.08	5.97	-5.11	14.00	-19.11
6420	2.0	NB UNII HDRPS2	IPA	-14.39	-14.29	-11.37	5.35	-6.02	14.00	-20.02
6107	6.0	NB UNII XDRPM6	ePA	-11.59	-11.42	-8.51	6.47	-2.04	14.00	-16.04
6263	6.0	NB UNII XDRPM6	ePA	-11.36	-11.51	-8.42	5.97	-2.45	14.00	-16.45
6420	6.0	NB UNII XDRPM6	ePA	-11.37	-11.51	-8.42	5.35	-3.07	14.00	-17.07
6107	6.0	NB UNII XDRPM6	IPA	-11.26	-11.71	-8.48	6.47	-2.01	14.00	-16.01
6263	6.0	NB UNII XDRPM6	IPA	-11.61	-11.69	-8.63	5.97	-2.66	14.00	-16.66
6420	6.0	NB UNII XDRPM6	IPA	-11.45	-11.67	-8.54	5.35	-3.19	14.00	-17.19
6107	16.0	NB UNII HDRPM16	ePA	-11.52	-11.41	-8.48	6.47	-2.01	14.00	-16.01
6263	16.0	NB UNII HDRPM16	ePA	-11.37	-11.48	-8.42	5.97	-2.45	14.00	-16.45
6420	16.0	NB UNII HDRPM16	ePA	-11.31	-11.52	-8.42	5.35	-3.07	14.00	-17.07
6107	16.0	NB UNII HDRPM16	IPA	-11.70	-11.69	-8.66	6.47	-2.19	14.00	-16.19
6263	16.0	NB UNII HDRPM16	IPA	-11.58	-11.69	-8.60	5.97	-2.63	14.00	-16.63
6420	16.0	NB UNII HDRPM16	IPA	-11.43	-11.60	-8.51	5.35	-3.16	14.00	-17.16
6109	12.0	NB UNII HDRPL12	ePA	-8.56	-8.31	-5.42	6.47	1.05	14.00	-12.95
6263	12.0	NB UNII HDRPL12	ePA	-8.68	-8.62	-5.64	5.97	0.33	14.00	-13.67
6420	12.0	NB UNII HDRPL12	ePA	-8.71	-8.55	-5.61	5.35	-0.26	14.00	-14.26
6109	12.0	NB UNII HDRPL12	IPA	-8.34	-8.25	-5.27	6.47	1.20	14.00	-12.80
6263	12.0	NB UNII HDRPL12	IPA	-8.71	-8.76	-5.47	5.97	0.50	14.00	-13.50
6420	12.0	NB UNII HDRPL12	IPA	-8.49	-8.71	-5.58	5.35	-0.23	14.00	-14.23
6109	32.0	NB UNII HDRPL32	ePA	-8.53	-9.23	-5.87	6.47	0.60	14.00	-13.40
6263	32.0	NB UNII HDRPL32	ePA	-8.65	-8.60	-5.62	5.97	0.35	14.00	-13.65
6420	32.0	NB UNII HDRPL32	ePA	-8.76	-9.01	-5.87	5.35	-0.52	14.00	-14.52
6109	32.0	NB UNII HDRPL32	IPA	-8.99	-8.94	-5.95	6.47	0.52	14.00	-13.48
6263	32.0	NB UNII HDRPL32	IPA	-8.82	-8.52	-5.65	5.97	0.32	14.00	-13.68
6420	32.0	NB UNII HDRPL32	IPA	-8.54	-8.50	-5.51	5.35	-0.16	14.00	-14.16
6106	2.0	NB UNII HDT2	ePA	-14.29	-14.19	-11.25	6.47	-4.78	14.00	-18.78
6263	2.0	NB UNII HDT2	ePA	-14.21	-14.02	-11.08	5.97	-5.11	14.00	-19.11
6420	2.0	NB UNII HDT2	ePA	-14.21	-13.88	-11.02	5.35	-5.67	14.00	-19.67
6106	2.0	NB UNII HDT2	IPA	-13.79	-13.79	-10.76	6.47	-4.29	14.00	-18.29
6263	2.0	NB UNII HDT2	IPA	-14.11	-14.17	-11.14	5.97	-5.17	14.00	-19.17
6420	2.0	NB UNII HDT2	IPA	-13.92	-13.78	-10.81	5.35	-5.46	14.00	-19.46
6106	4.0	NB UNII HDT4	ePA	-14.25	-14.09	-11.14	6.47	-4.67	14.00	-18.67
6263	4.0	NB UNII HDT4	ePA	-14.10	-13.99	-11.02	5.97	-5.05	14.00	-19.05
6420	4.0	NB UNII HDT4	ePA	-14.16	-13.80	-10.97	5.35	-5.62	14.00	-19.62
6106	4.0	NB UNII HDT4	IPA	-14.16	-14.12	-11.14	6.47	-4.67	14.00	-18.67
6263	4.0	NB UNII HDT4	IPA	-14.05	-14.14	-11.08	5.97	-5.11	14.00	-19.11
6420	4.0	NB UNII HDT4	IPA	-13.86	-13.80	-10.81	5.35	-5.46	14.00	-19.46
6106	6.0	NB UNII HDT6	ePA	-14.14	-14.00	-11.02	6.47	-4.55	14.00	-18.55
6263	6.0	NB UNII HDT6	ePA	-14.04	-14.28	-11.19	5.97	-5.22	14.00	-19.22
6420	6.0	NB UNII HDT6	ePA	-14.08	-14.25	-11.14	5.35	-5.79	14.00	-19.79
6106	6.0	NB UNII HDT6	IPA	-14.06	-14.09	-11.08	6.47	-4.61	14.00	-18.61
6263	6.0	NB UNII HDT6	IPA	-14.40	-14.01	-11.19	5.97	-5.22	14.00	-19.22
6420	6.0	NB UNII HDT6	IPA	-14.26	-14.47	-11.37	5.35	-6.02	14.00	-20.02

Table 7-6. TxBF Maximum Conducted Output Power and Max EIRP

FCC ID: BCGA3459 IC: 579C-A3459	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2509100079-11-R4.BCG	Test Dates: 09/18/2025 - 12/23/2025	EUT Type: Tablet Device	Page 39 of 209

Note:

Per ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024 and KDB 662911 v02r01 Section E)1), the conducted powers at Antenna WF8 and Antenna WF7a 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 6106MHz, the average conducted output power was measured to be -16.55 dBm for Antenna WF8 and -16.83 dBm for Antenna WF7a.

$$\text{Antenna WF8} + \text{Antenna WF7a} = \text{TxBF}$$

$$(-16.55 \text{ dBm} + (-16.83) \text{ dBm}) = (0.022 \text{ mW} + 0.021 \text{ mW}) = 0.043 \text{ mW} = -13.67 \text{ dBm}$$

Sample e.i.r.p. Calculation:

At 6106MHz for NB UNII BDR, the average conducted power was calculated to be -13.67 dBm with directional gain of 3.41 dBi.

$$\text{e.i.r.p. (dBm)} = \text{Conducted Power (dBm)} + \text{Ant gain (dBi)}$$

$$-13.67 \text{ dBm} + 6.47 \text{ dBi} = -7.20 \text{ dBm}$$

FCC ID: BCGA3459 IC: 579C-A3459	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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7.4 Maximum Power Spectral Density

§15.407(a)(9), RSS-248 [4.5.6]

Test Overview and Limit

The spectrum analyzer was connected to the antenna terminal while the EUT was operating at its maximum duty cycle, at its maximum power control level, as defined in ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024 and KDB 789033 D02 v02r01, and at the appropriate frequencies. Method SA-1, as defined in ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024 and KDB 789033 D02 v02r01, was used to measure the power spectral density.

In the 5.925 – 6.425GHz band, the maximum permissible power spectral density must not exceed -5dBm e.i.r.p. in any 1-megahertz band for Very Low Power operating modes.

Test Procedure Used

ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024 – Subclause 12.4.2.2

KDB 789033 D02 v02r01 – Section F

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 v02r01 – Section E)2) Measure-and-Sum Technique

Test Settings

1. Analyzer was set to the center frequency of the UNII channel under investigation
2. Set span to encompass the entire 99% OBW of the signal
3. RBW = 1MHz
4. VBW = 3MHz
5. Number of sweep points $\geq 2 \times (\text{span}/\text{RBW})$
6. Sweep time = auto
7. Detector = power averaging (RMS)
8. Trigger was set to free run for all modes
9. Trace was averaged over 100 sweeps
10. The peak search function of the spectrum analyzer was used to find the peak of the spectrum.

Test Setup

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



Figure 7-3. Test Instrument & Measurement Setup

Test Notes

1. All modulation and power schemes were investigated and only the worst case is reported.
2. Low, mid and high channels were tested, and tabular data has been reported. Only mid channel plots have been reported.
3. 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
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7.4.1 Antenna WF8 Power Spectral Density Measurements (U-NII-5)

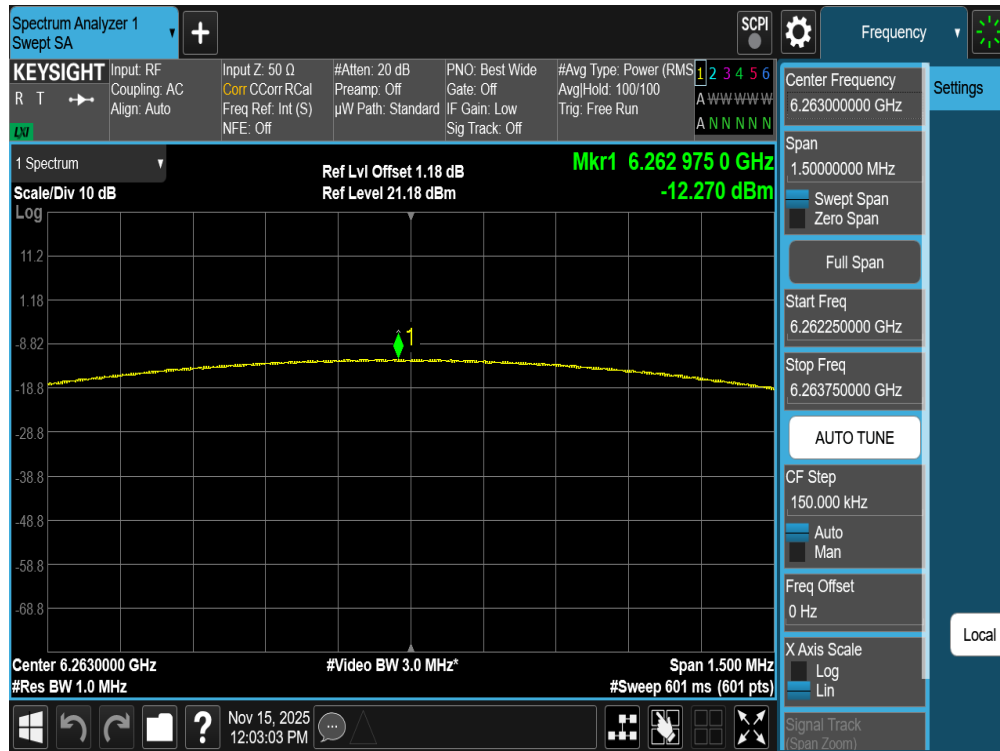
Frequency [MHz]	Data Rate [Mbps]	Mode	Power Scheme	Measured Power Density [dBm/MHz]	Antenna Gain [dBi]	e.i.r.p. Density [dBm/MHz]	Max Permissible Power Density [dBm/MHz]	Margin [dB]
6106	1.0	NB UNII BDR	ePA	-12.07	3.8	-8.27	-5.00	-3.27
6263	1.0	NB UNII BDR	ePA	-12.27	3.4	-8.87	-5.00	-3.87
6420	1.0	NB UNII BDR	ePA	-11.85	1.0	-10.85	-5.00	-5.85
6106	1.0	NB UNII BDR	IPA	-13.38	3.8	-9.58	-5.00	-4.58
6263	1.0	NB UNII BDR	IPA	-11.87	3.4	-8.47	-5.00	-3.47
6420	1.0	NB UNII BDR	IPA	-11.00	1.0	-10.00	-5.00	-5.00
6106	1.0	NB UNII LE1M	ePA	-12.50	3.8	-8.70	-5.00	-3.70
6263	1.0	NB UNII LE1M	ePA	-12.22	3.4	-8.82	-5.00	-3.82
6420	1.0	NB UNII LE1M	ePA	-12.28	1.0	-11.28	-5.00	-6.28
6106	1.0	NB UNII LE1M	IPA	-13.03	3.8	-9.23	-5.00	-4.23
6263	1.0	NB UNII LE1M	IPA	-11.65	3.4	-8.25	-5.00	-3.25
6420	1.0	NB UNII LE1M	IPA	-11.40	1.0	-10.40	-5.00	-5.40
6106	2.0	NB UNII LE2M	ePA	-12.24	3.8	-8.44	-5.00	-3.44
6263	2.0	NB UNII LE2M	ePA	-12.24	3.4	-8.84	-5.00	-3.84
6420	2.0	NB UNII LE2M	ePA	-12.34	1.0	-11.34	-5.00	-6.34
6106	2.0	NB UNII LE2M	IPA	-13.48	3.8	-9.68	-5.00	-4.68
6263	2.0	NB UNII LE2M	IPA	-11.97	3.4	-8.57	-5.00	-3.57
6420	2.0	NB UNII LE2M	IPA	-11.90	1.0	-10.90	-5.00	-5.90
6106	4.0	NB UNII HDR4	ePA	-11.81	3.8	-8.01	-5.00	-3.01
6263	4.0	NB UNII HDR4	ePA	-11.88	3.4	-8.48	-5.00	-3.48
6420	4.0	NB UNII HDR4	ePA	-11.94	1.0	-10.94	-5.00	-5.94
6106	4.0	NB UNII HDR4	IPA	-13.01	3.8	-9.21	-5.00	-4.21
6263	4.0	NB UNII HDR4	IPA	-11.90	3.4	-8.50	-5.00	-3.50
6420	4.0	NB UNII HDR4	IPA	-10.97	1.0	-9.97	-5.00	-4.97
6107	8.0	NB UNII HDR8	ePA	-12.96	3.8	-9.16	-5.00	-4.16
6263	8.0	NB UNII HDR8	ePA	-12.83	3.4	-9.43	-5.00	-4.43
6420	8.0	NB UNII HDR8	ePA	-13.22	1.0	-12.22	-5.00	-7.22
6107	8.0	NB UNII HDR8	IPA	-14.24	3.8	-10.44	-5.00	-5.44
6263	8.0	NB UNII HDR8	IPA	-12.92	3.4	-9.52	-5.00	-4.52
6420	8.0	NB UNII HDR8	IPA	-12.06	1.0	-11.06	-5.00	-6.06
6106	2.0	NB UNII HDRPS2	ePA	-12.37	3.8	-8.57	-5.00	-3.57
6263	2.0	NB UNII HDRPS2	ePA	-12.12	3.4	-8.72	-5.00	-3.72
6420	2.0	NB UNII HDRPS2	ePA	-12.40	1.0	-11.40	-5.00	-6.40
6106	2.0	NB UNII HDRPS2	IPA	-13.44	3.8	-9.64	-5.00	-4.64
6263	2.0	NB UNII HDRPS2	IPA	-11.72	3.4	-8.32	-5.00	-3.32
6420	2.0	NB UNII HDRPS2	IPA	-11.29	1.0	-10.29	-5.00	-5.29
6107	6.0	NB UNII XHDRPM6	ePA	-12.53	3.8	-8.73	-5.00	-3.73
6263	6.0	NB UNII XHDRPM6	ePA	-11.81	3.4	-8.41	-5.00	-3.41
6420	6.0	NB UNII XHDRPM6	ePA	-12.28	1.0	-11.28	-5.00	-6.28
6107	6.0	NB UNII XHDRPM6	IPA	-13.13	3.8	-9.33	-5.00	-4.33
6263	6.0	NB UNII XHDRPM6	IPA	-11.98	3.4	-8.58	-5.00	-3.58
6420	6.0	NB UNII XHDRPM6	IPA	-11.37	1.0	-10.37	-5.00	-5.37
6107	16.0	NB UNII HDRPM16	ePA	-12.63	3.8	-8.83	-5.00	-3.83
6263	16.0	NB UNII HDRPM16	ePA	-11.87	3.4	-8.47	-5.00	-3.47
6420	16.0	NB UNII HDRPM16	ePA	-12.17	1.0	-11.17	-5.00	-6.17
6107	16.0	NB UNII HDRPM16	IPA	-13.53	3.8	-9.73	-5.00	-4.73
6263	16.0	NB UNII HDRPM16	IPA	-12.32	3.4	-8.92	-5.00	-3.92
6420	16.0	NB UNII HDRPM16	IPA	-11.49	1.0	-10.49	-5.00	-5.49
6109	12.0	NB UNII HDRPL12	ePA	-12.18	3.8	-8.38	-5.00	-3.38
6263	12.0	NB UNII HDRPL12	ePA	-11.97	3.4	-8.57	-5.00	-3.57
6420	12.0	NB UNII HDRPL12	ePA	-12.34	1.0	-11.34	-5.00	-6.34
6109	12.0	NB UNII HDRPL12	IPA	-13.14	3.8	-9.34	-5.00	-4.34
6263	12.0	NB UNII HDRPL12	IPA	-12.52	3.4	-9.12	-5.00	-4.12
6420	12.0	NB UNII HDRPL12	IPA	-11.59	1.0	-10.59	-5.00	-5.59
6109	32.0	NB UNII HDRPL32	ePA	-12.48	3.8	-8.68	-5.00	-3.68
6263	32.0	NB UNII HDRPL32	ePA	-12.32	3.4	-8.92	-5.00	-3.92
6420	32.0	NB UNII HDRPL32	ePA	-12.22	1.0	-11.22	-5.00	-6.22
6109	32.0	NB UNII HDRPL32	IPA	-12.51	3.8	-8.71	-5.00	-3.71
6263	32.0	NB UNII HDRPL32	IPA	-12.37	3.4	-8.97	-5.00	-3.97
6420	32.0	NB UNII HDRPL32	IPA	-12.44	1.0	-11.44	-5.00	-6.44
6106	2.0	NB UNII HDT2	ePA	-12.38	3.8	-8.58	-5.00	-3.58
6263	2.0	NB UNII HDT2	ePA	-11.70	3.4	-8.30	-5.00	-3.30
6420	2.0	NB UNII HDT2	ePA	-11.86	1.0	-10.86	-5.00	-5.86
6106	2.0	NB UNII HDT2	IPA	-12.87	3.8	-9.07	-5.00	-4.07
6263	2.0	NB UNII HDT2	IPA	-11.41	3.4	-8.01	-5.00	-3.01
6420	2.0	NB UNII HDT2	IPA	-11.29	1.0	-10.29	-5.00	-5.29
6106	4.0	NB UNII HDT4	ePA	-12.37	3.8	-8.57	-5.00	-3.57
6263	4.0	NB UNII HDT4	ePA	-11.70	3.4	-8.30	-5.00	-3.30
6420	4.0	NB UNII HDT4	ePA	-11.88	1.0	-10.88	-5.00	-5.88
6106	4.0	NB UNII HDT4	IPA	-12.95	3.8	-9.15	-5.00	-4.15
6263	4.0	NB UNII HDT4	IPA	-11.54	3.4	-8.14	-5.00	-3.14
6420	4.0	NB UNII HDT4	IPA	-11.35	1.0	-10.35	-5.00	-5.35
6106	6.0	NB UNII HDT6	ePA	-12.39	3.8	-8.59	-5.00	-3.59
6263	6.0	NB UNII HDT6	ePA	-12.34	3.4	-8.94	-5.00	-3.94
6420	6.0	NB UNII HDT6	ePA	-12.46	1.0	-11.46	-5.00	-6.46
6106	6.0	NB UNII HDT6	IPA	-13.48	3.8	-9.68	-5.00	-4.68
6263	6.0	NB UNII HDT6	IPA	-11.98	3.4	-8.58	-5.00	-3.58
6420	6.0	NB UNII HDT6	IPA	-11.26	1.0	-10.26	-5.00	-5.26

Table 7-7. Power Spectral Density Measurements Antenna WF8

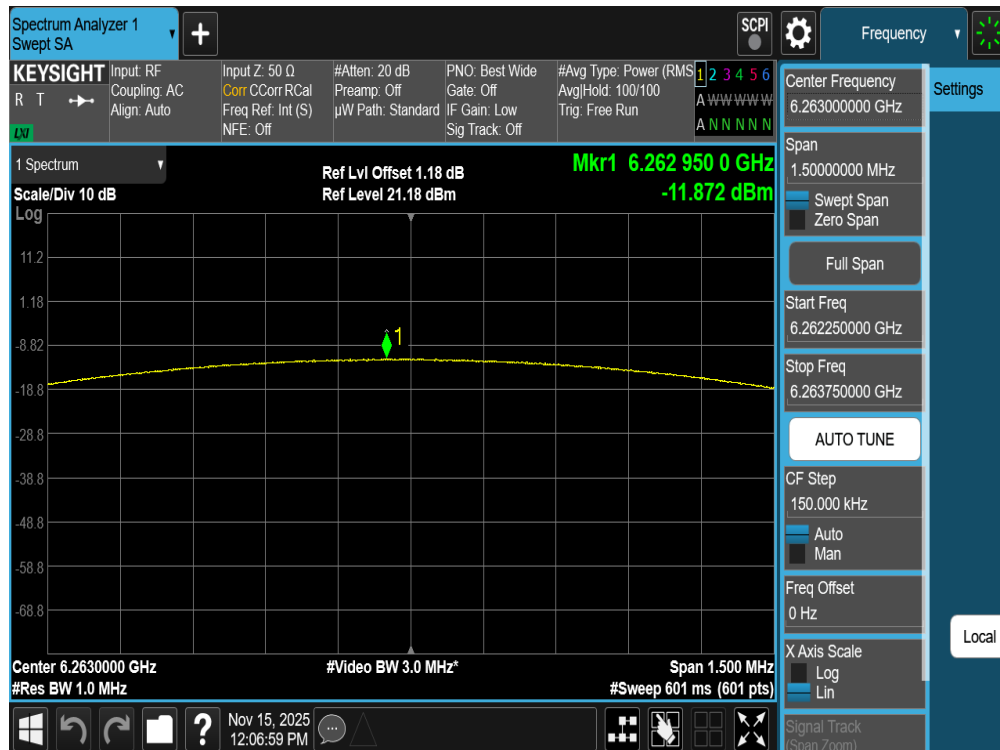
FCC ID: BCGA3459 IC: 579C-A3459		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100079-11-R4.BCG	Test Dates: 09/18/2025 - 12/23/2025	EUT Type: Tablet Device	Page 42 of 209

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Plot 7-27. PSD Antenna WF8 (NB UNII BDR, ePA – 6263MHz)

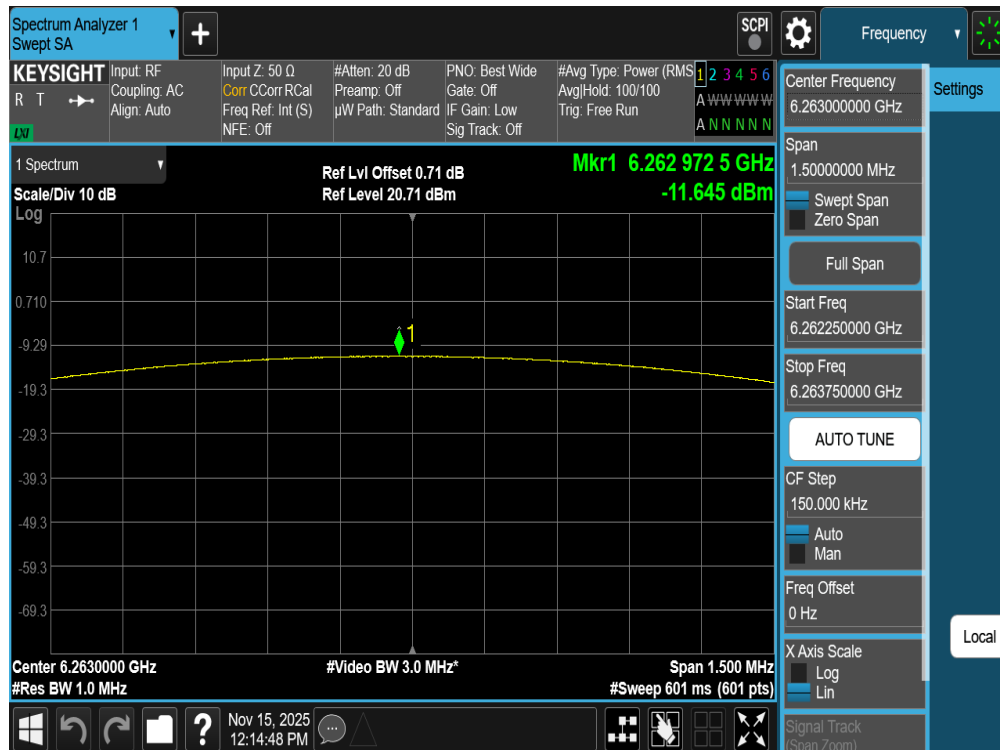
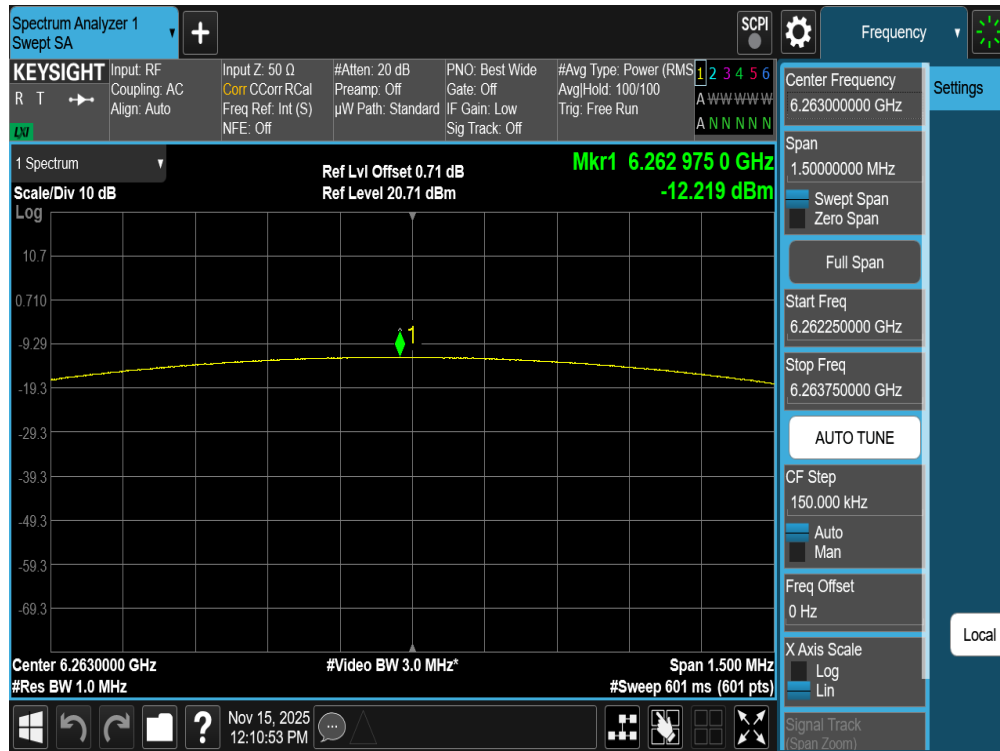


Plot 7-28. PSD Antenna WF8 (NB UNII BDR, iPA – 6263MHz)

FCC ID: BCGA3459 IC: 579C-A3459	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100079-11-R4.BCG	Test Dates: 09/18/2025 - 12/23/2025	EUT Type: Tablet Device	Page 43 of 209

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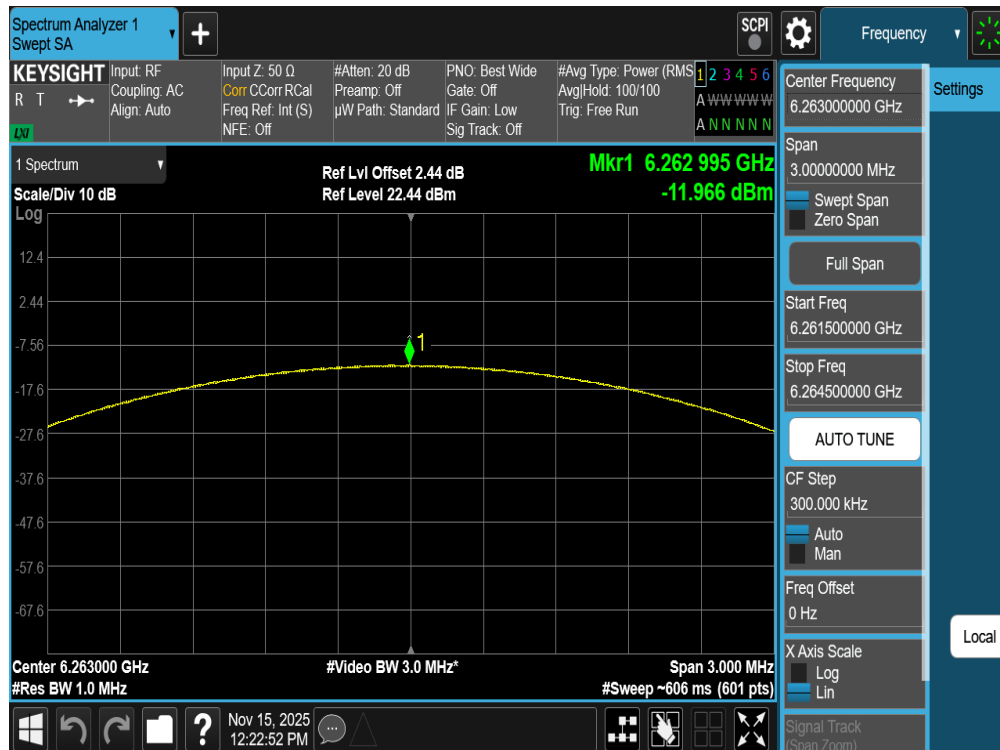
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Test Report S/N: 1C2509100079-11-R4.BCG	Test Dates: 09/18/2025 - 12/23/2025	EUT Type: Tablet Device	Page 44 of 209

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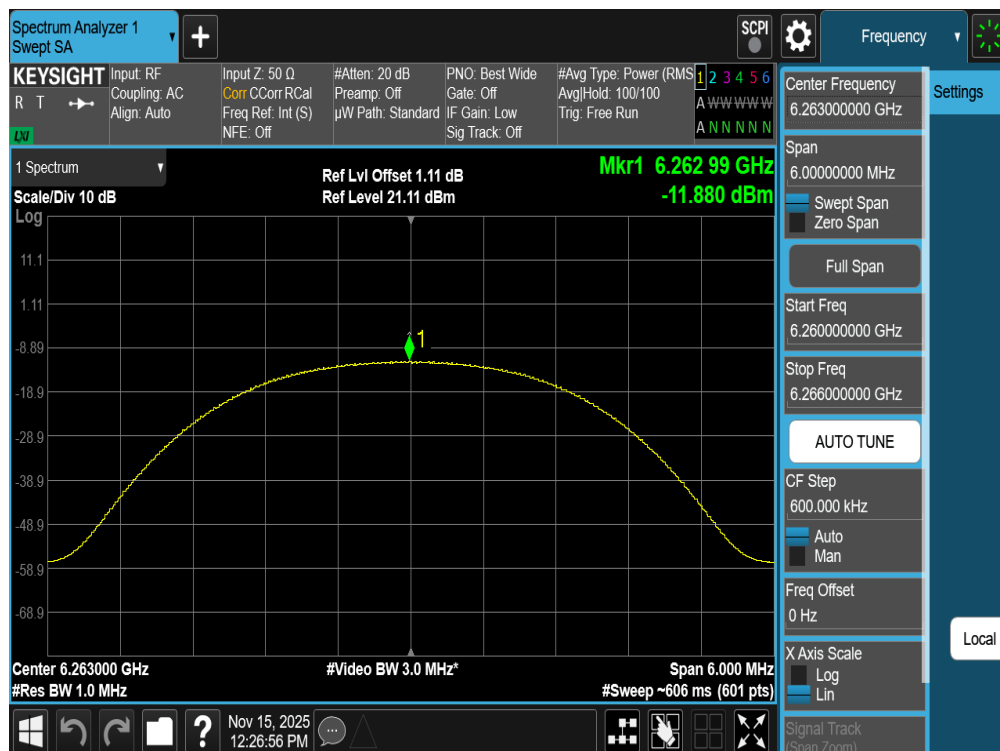
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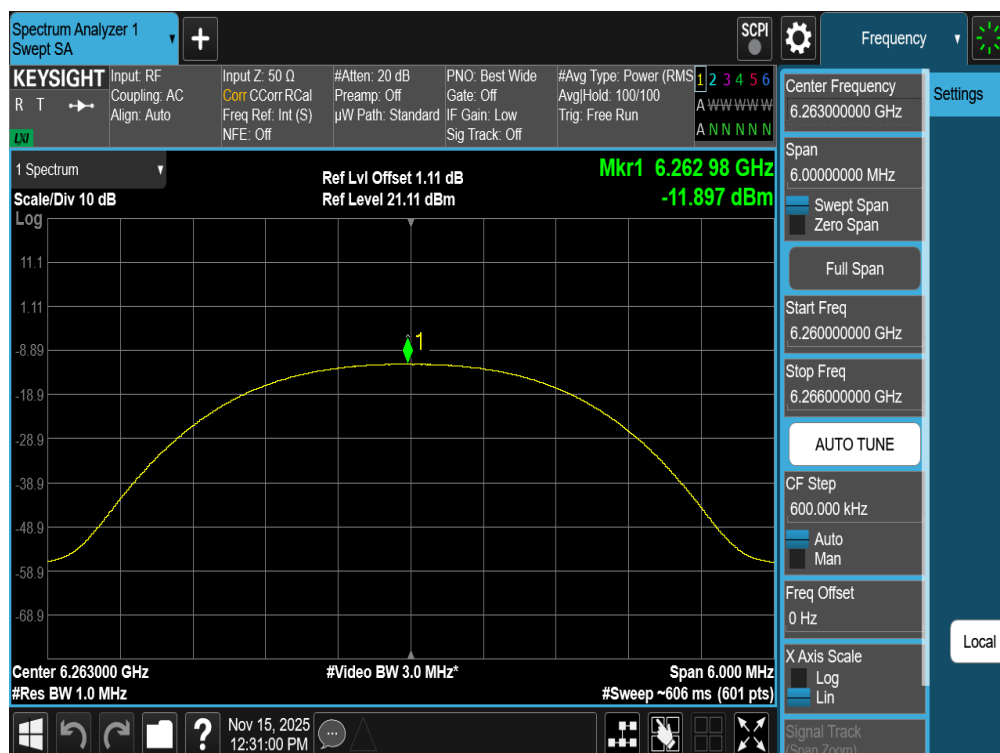
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Test Report S/N: 1C2509100079-11-R4.BCG	Test Dates: 09/18/2025 - 12/23/2025	EUT Type: Tablet Device	Page 45 of 209

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Plot 7-33. PSD Antenna WF8 (NB UNII HDR4, ePA – 6263MHz)

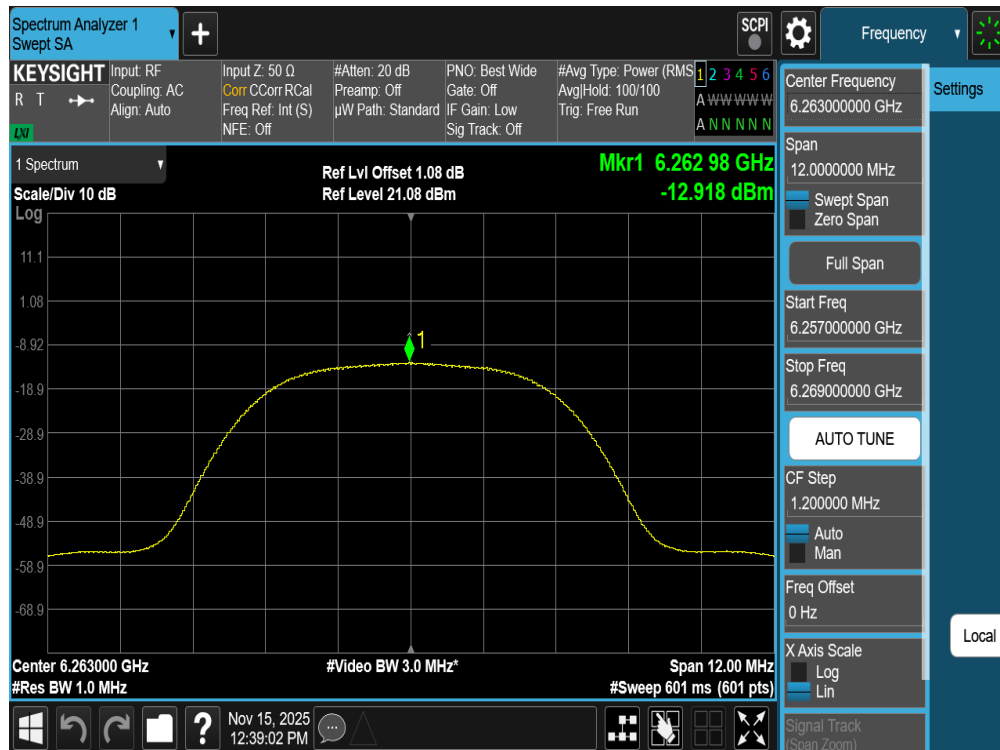
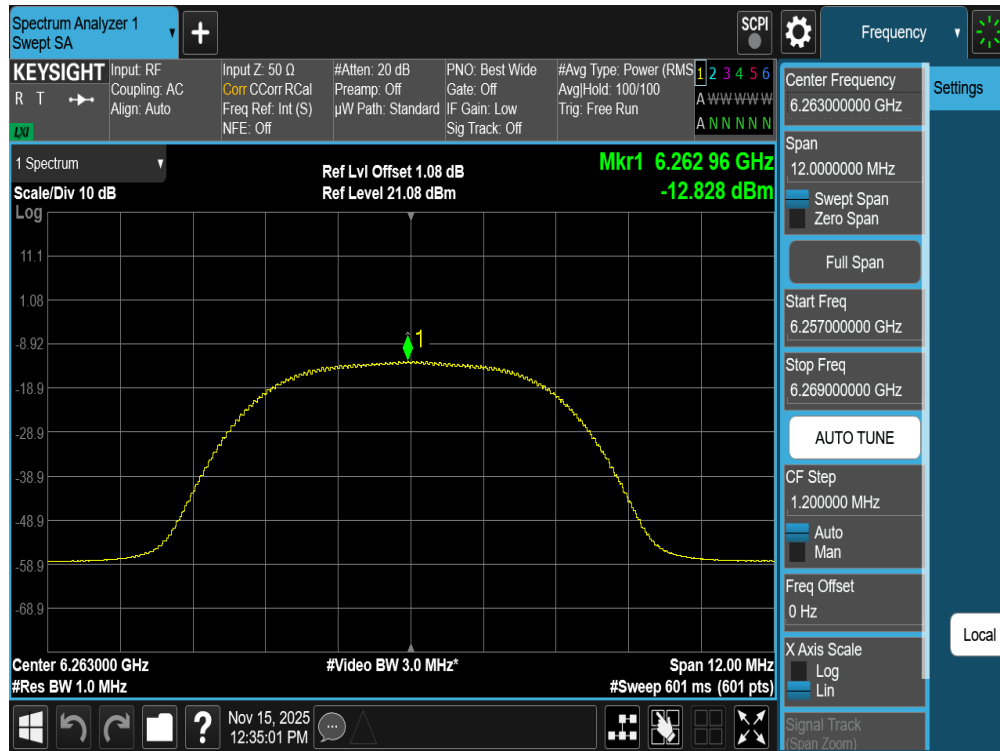


Plot 7-34. PSD Antenna WF8 (NB UNII HDR4, iPA – 6263MHz)

FCC ID: BCGA3459 IC: 579C-A3459	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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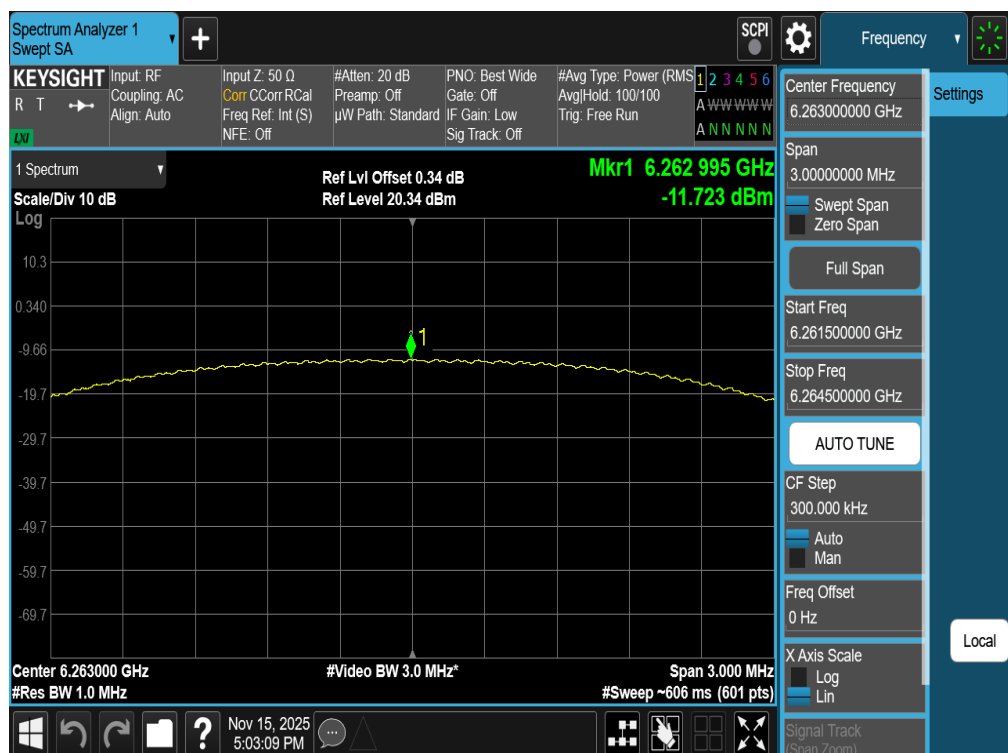
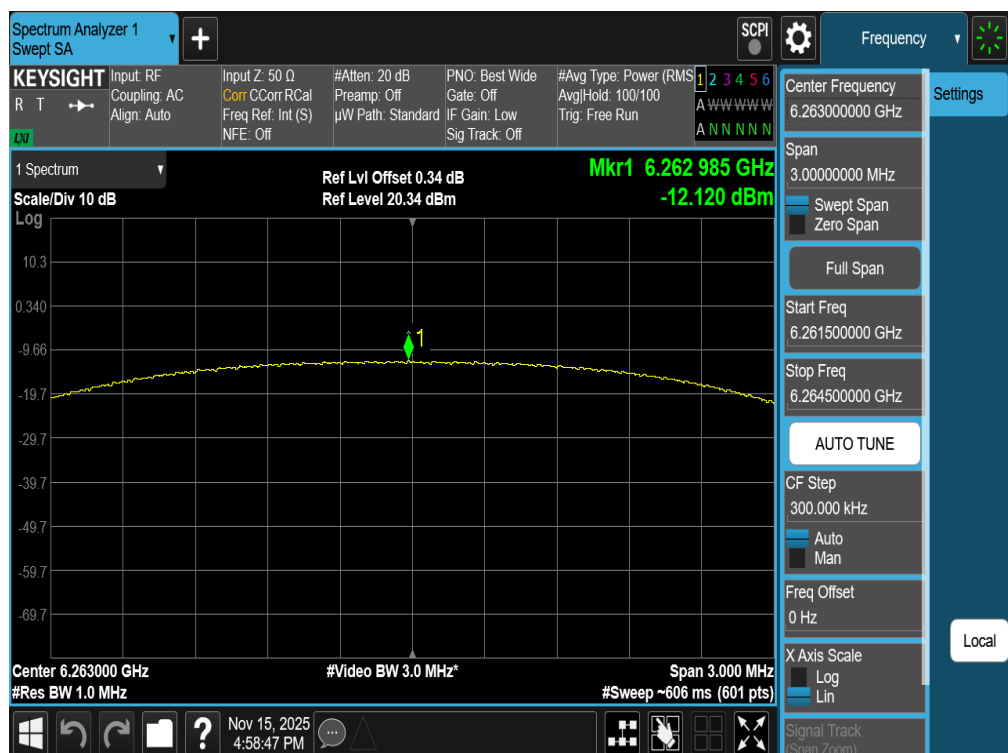
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Test Report S/N: 1C2509100079-11-R4.BCG	Test Dates: 09/18/2025 - 12/23/2025	EUT Type: Tablet Device	Page 47 of 209

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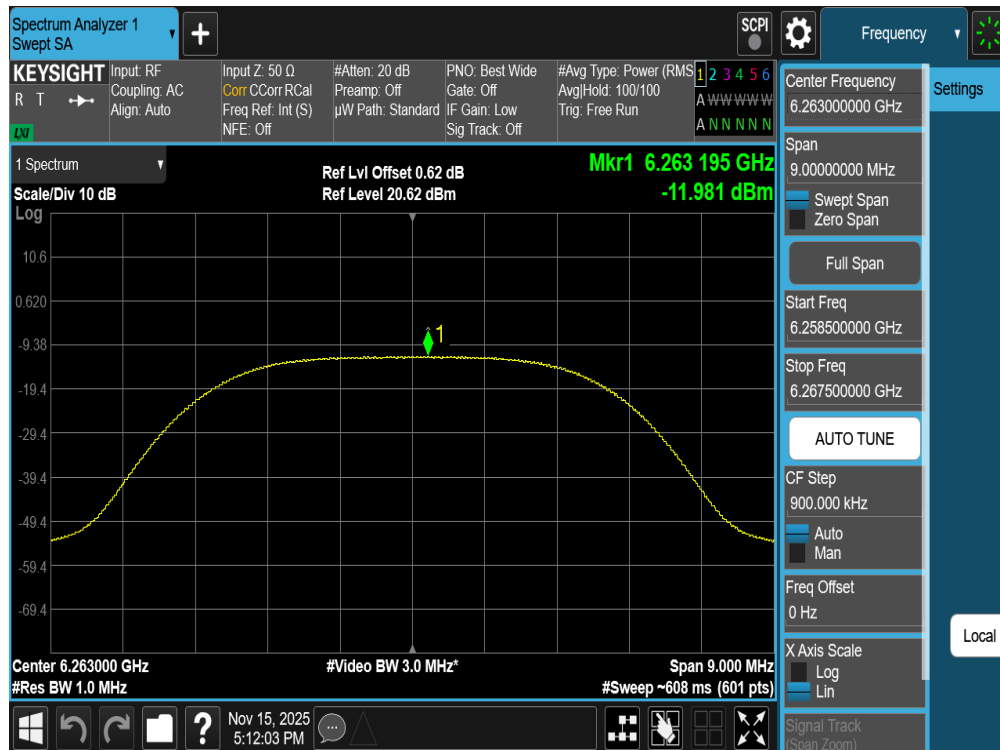
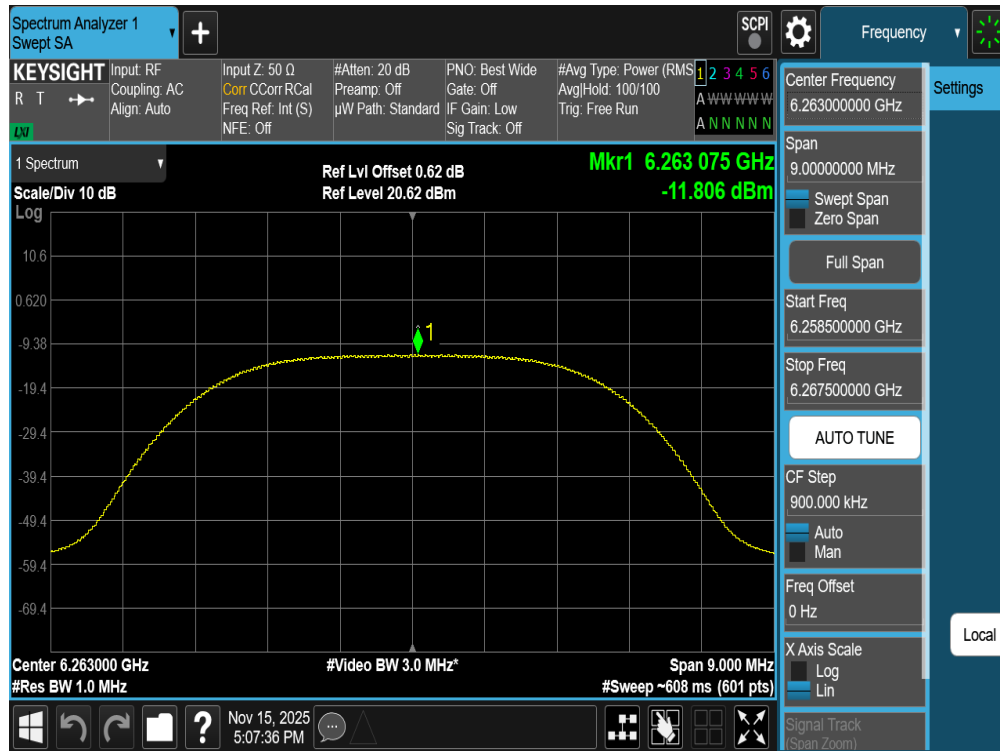
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Test Report S/N: 1C2509100079-11-R4.BCG	Test Dates: 09/18/2025 - 12/23/2025	EUT Type: Tablet Device	Page 48 of 209

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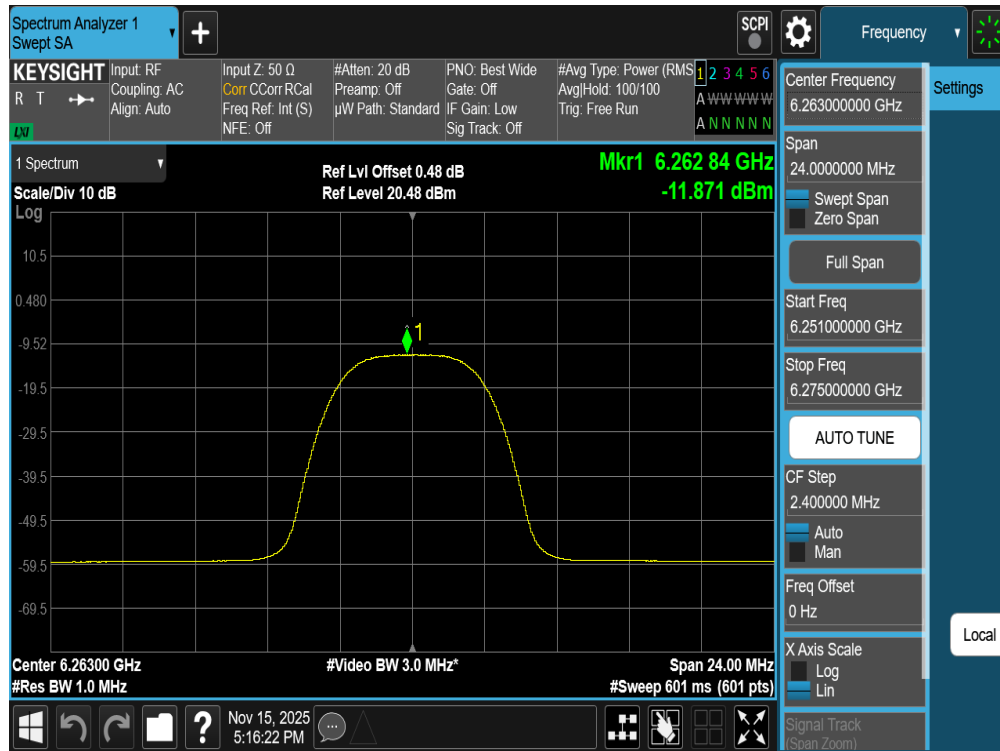
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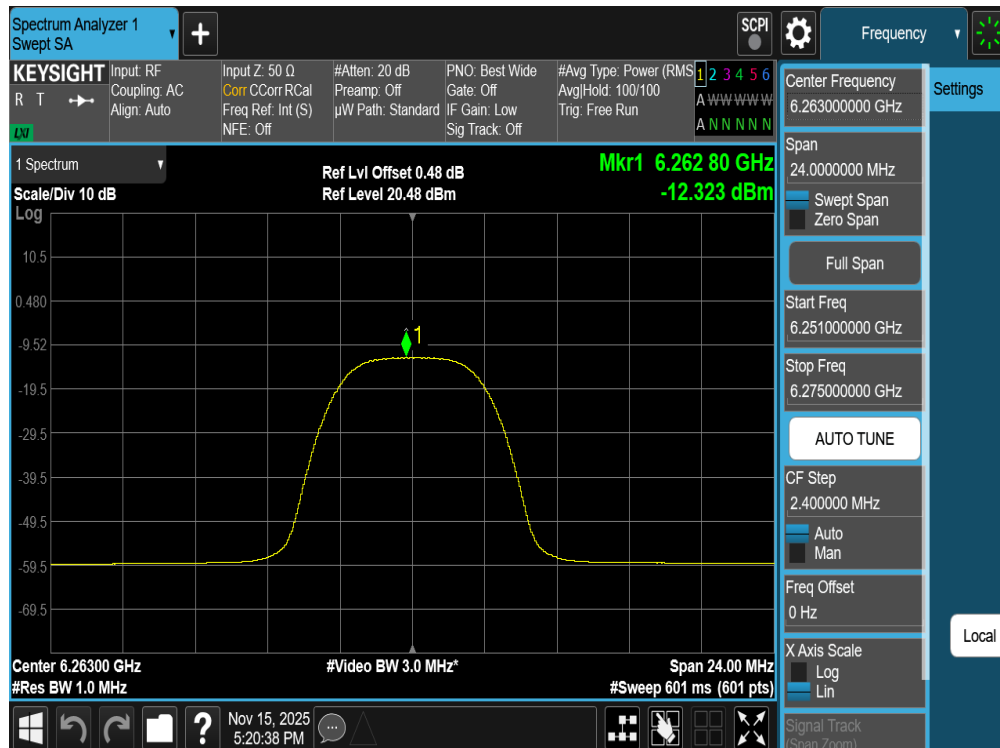
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Plot 7-41. PSD Antenna WF8 (NB UNII HDRPM16, ePA – 6263MHz)

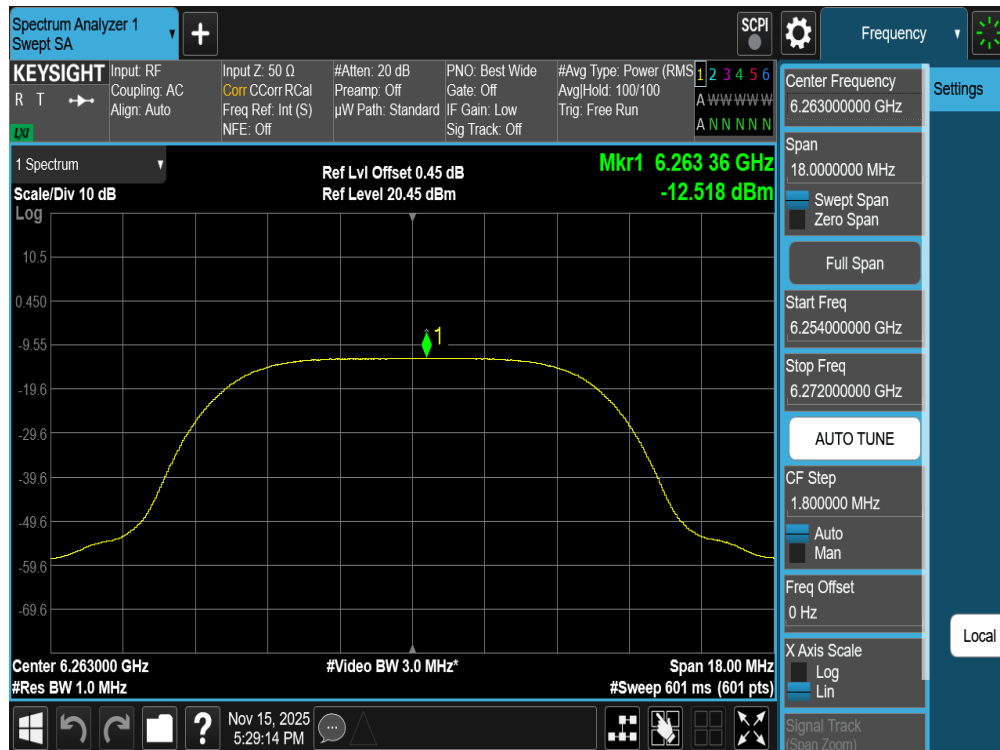
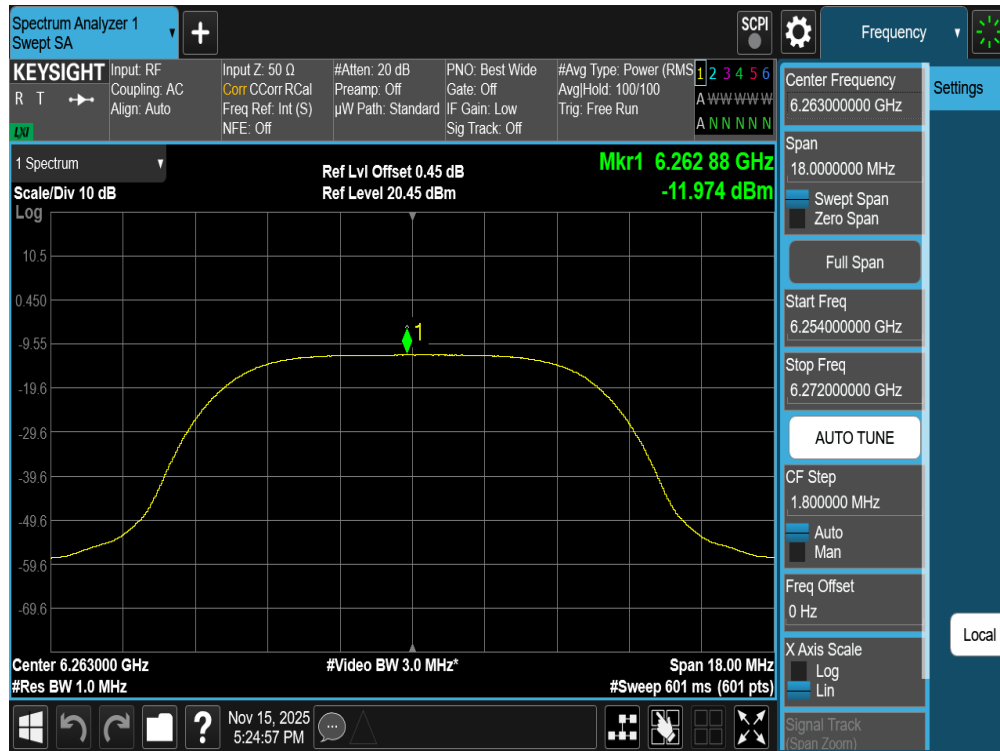


Plot 7-42. PSD Antenna WF8 (NB UNII HDRPM16, iPA – 6263MHz)

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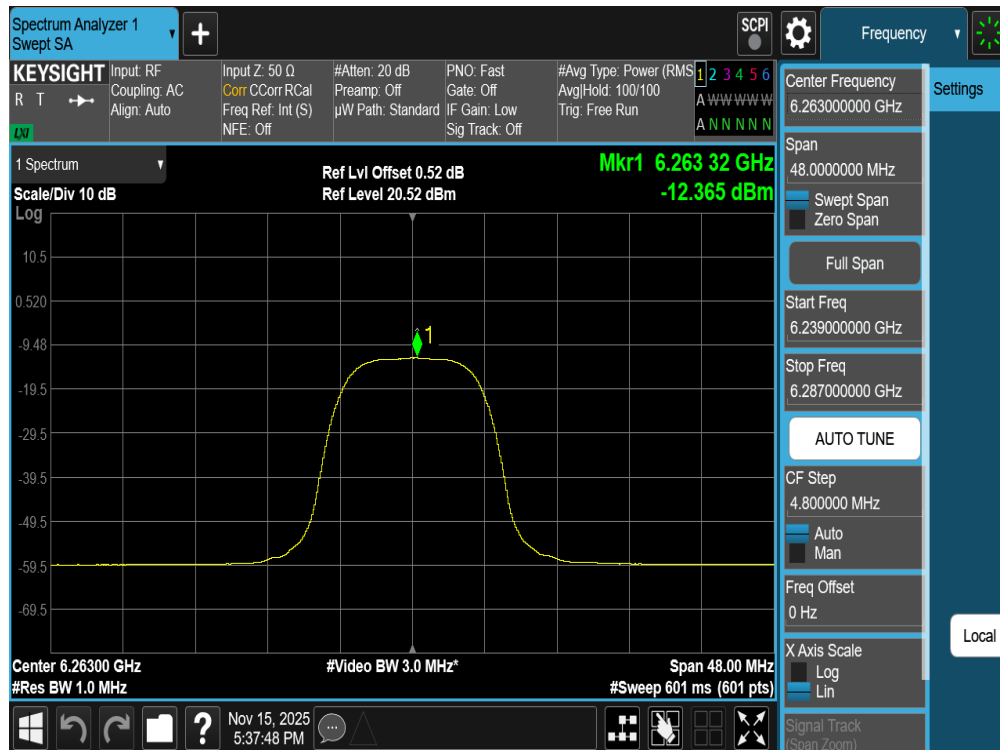
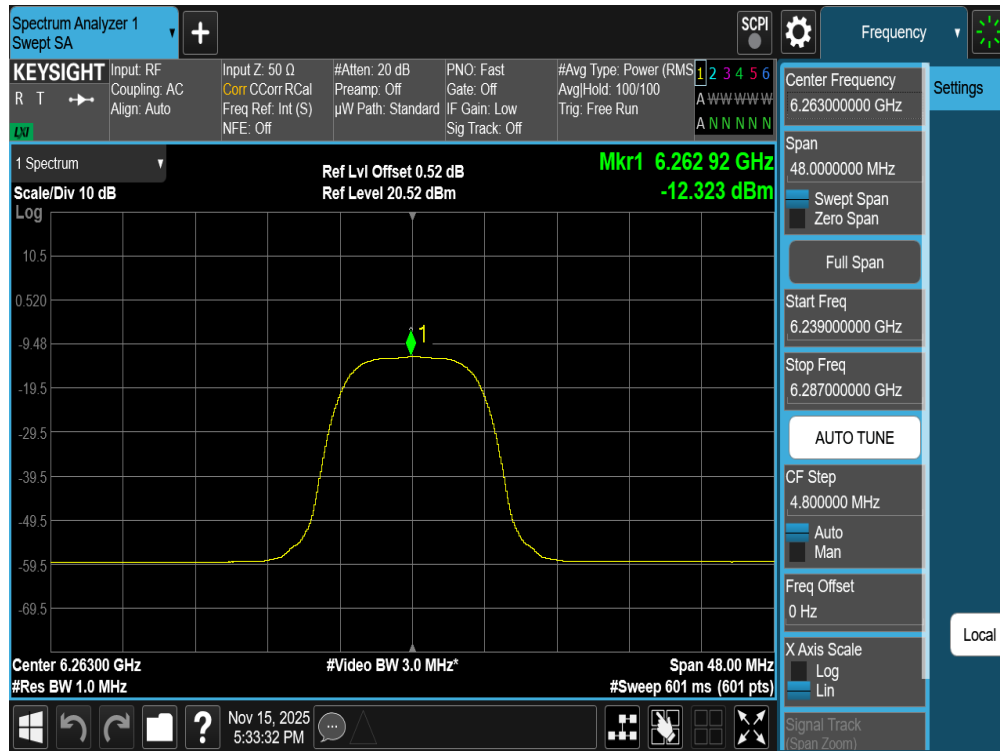
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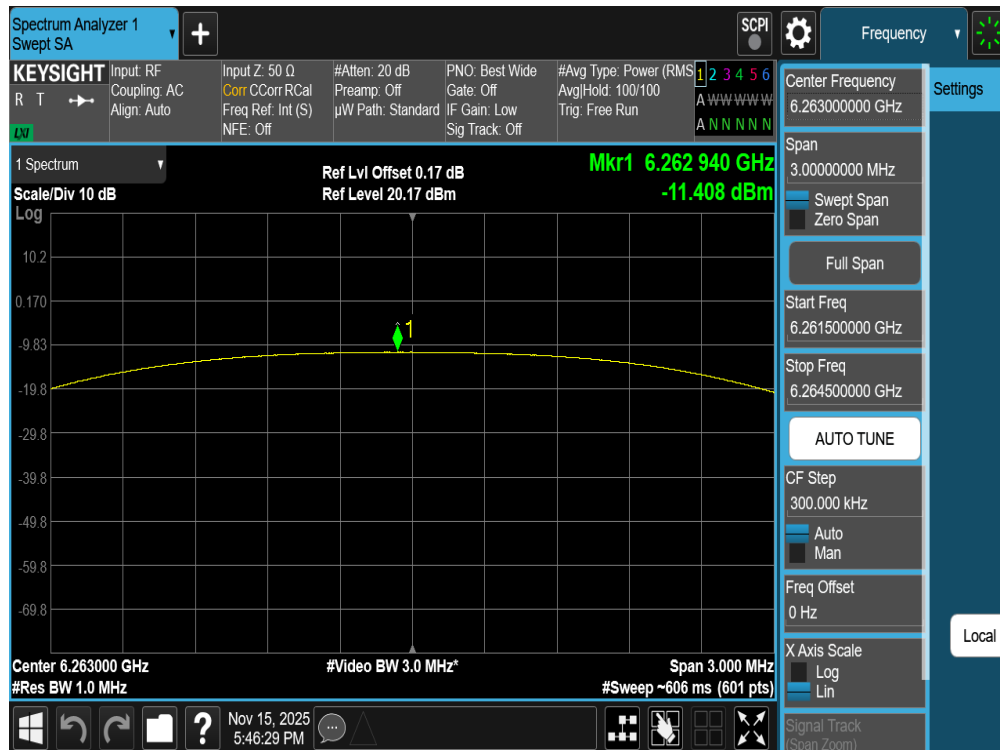
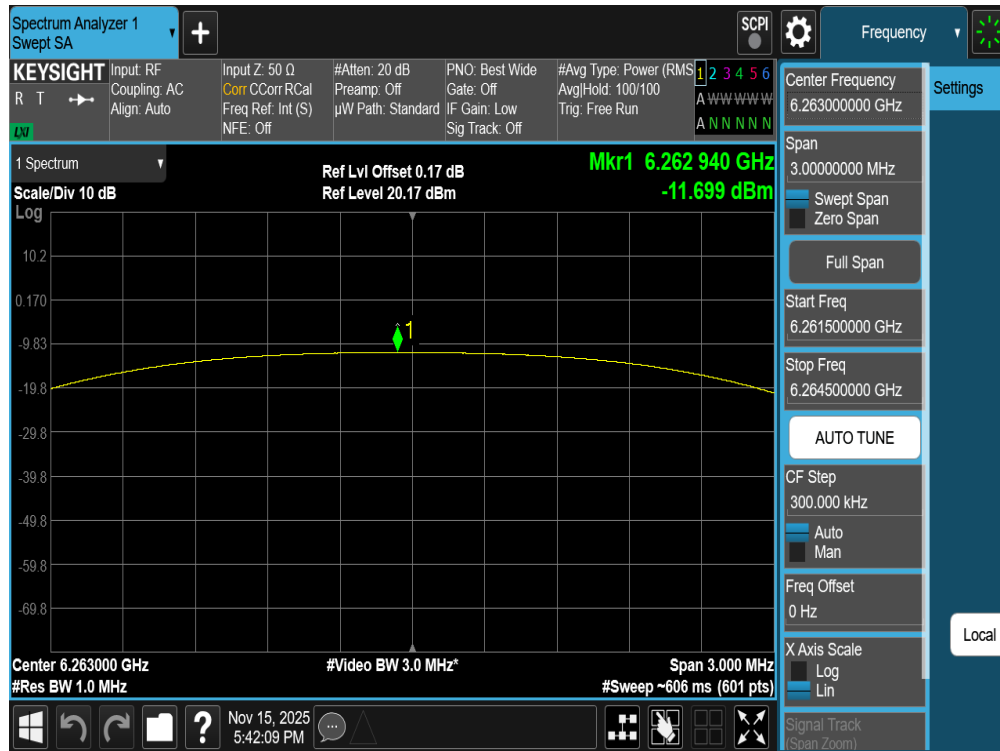
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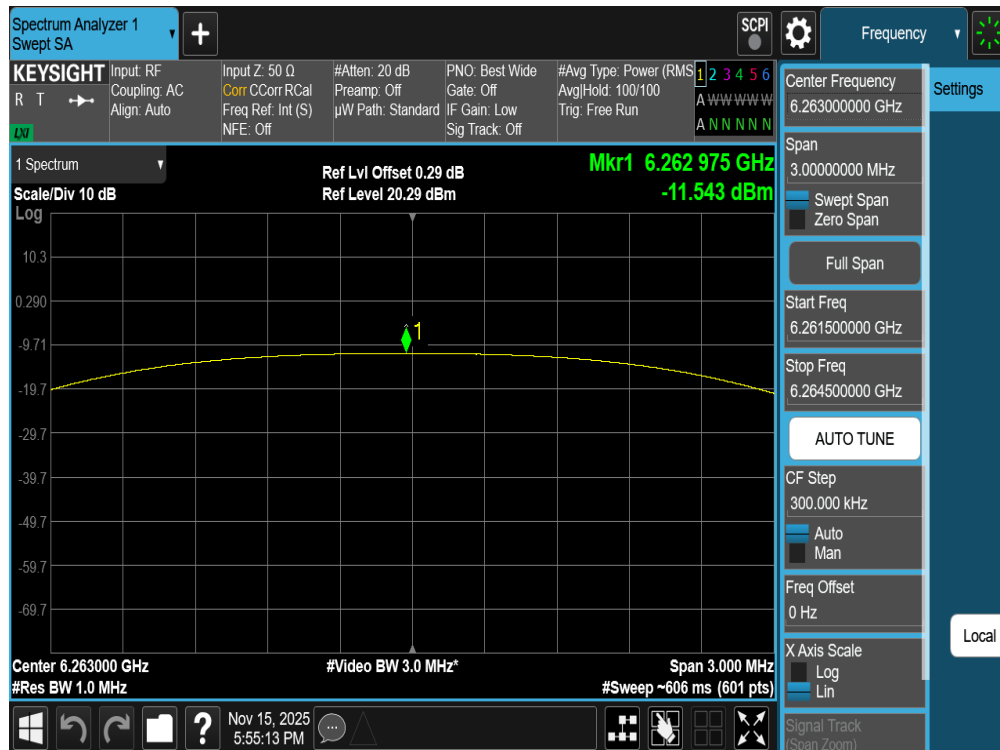
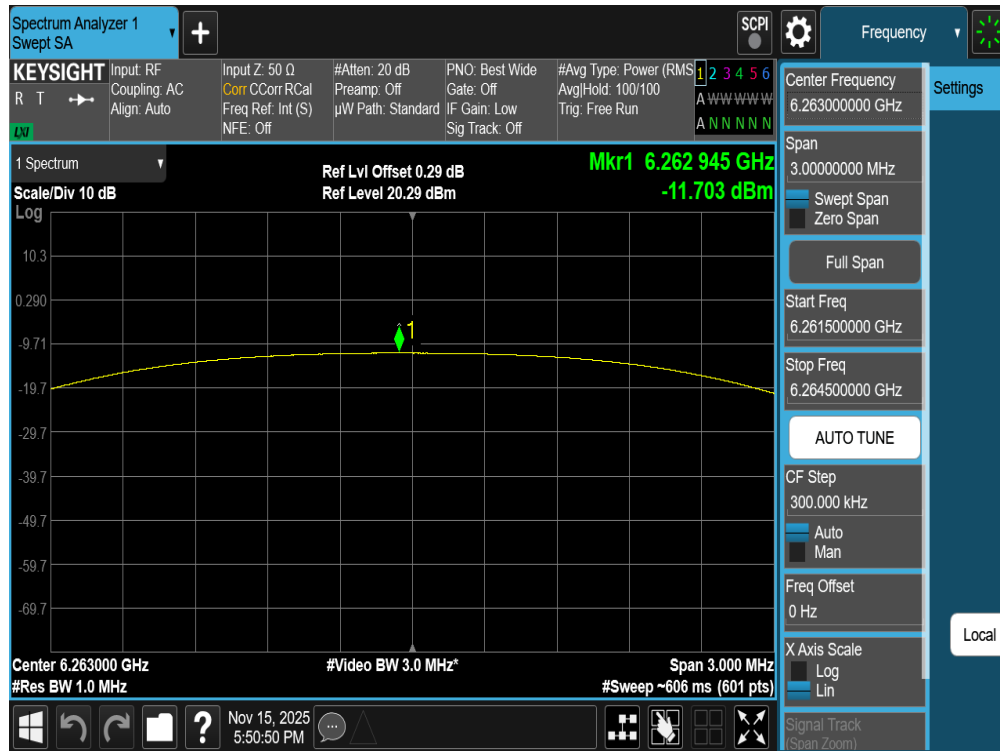
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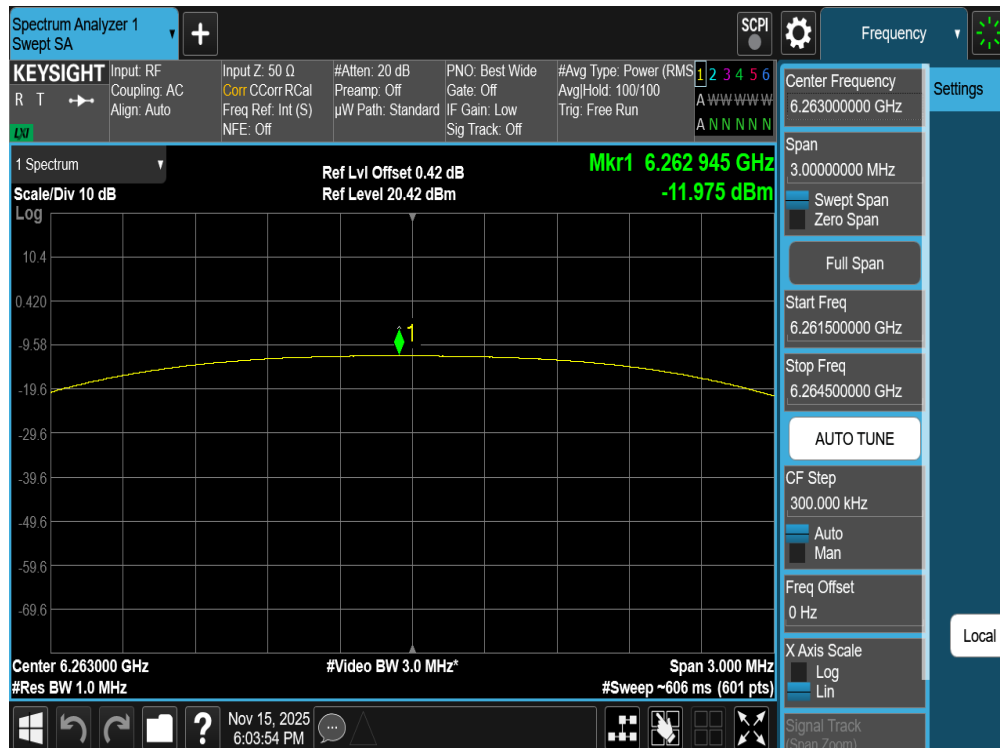
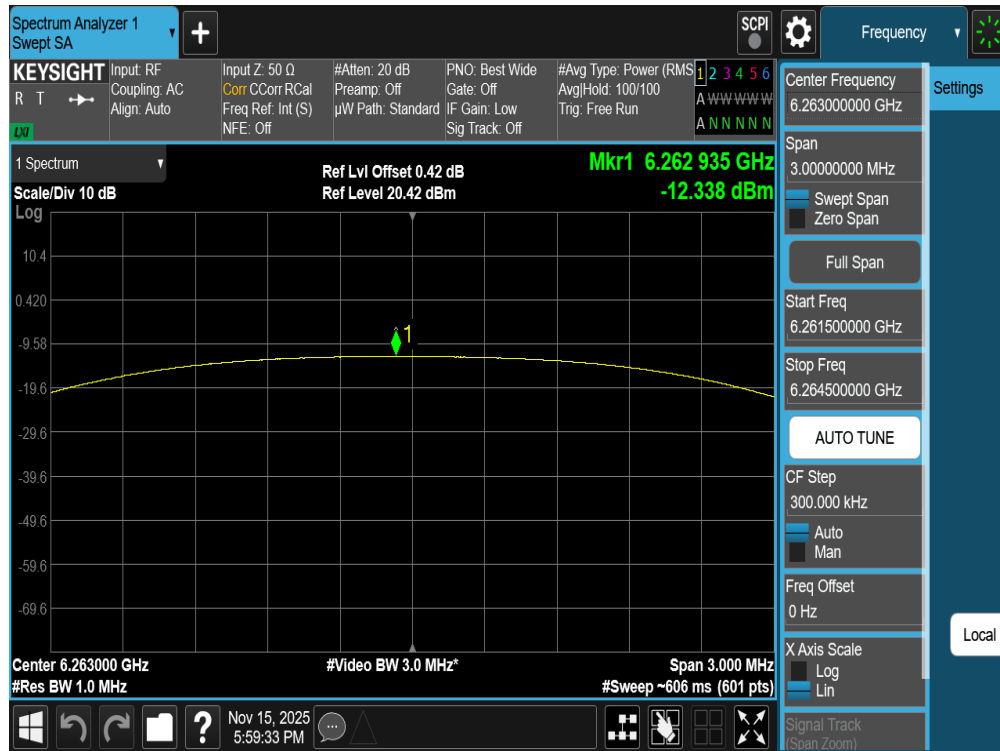
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FCC ID: BCGA3459 IC: 579C-A3459	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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7.4.2 Antenna WF7a Power Spectral Density Measurements (U-NII-5)

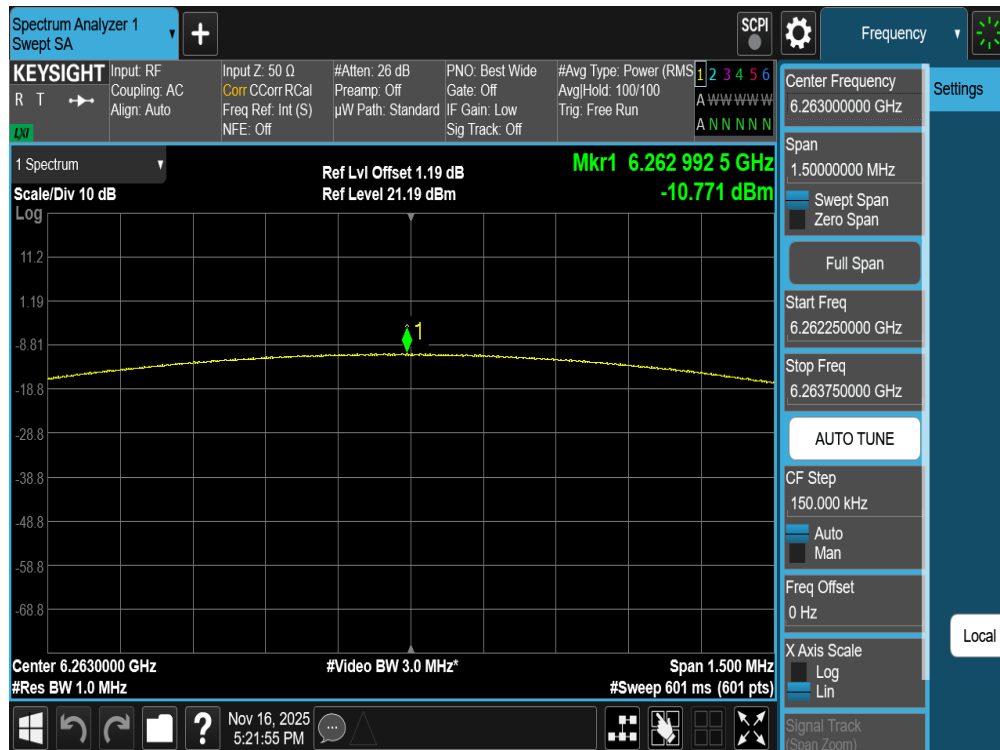
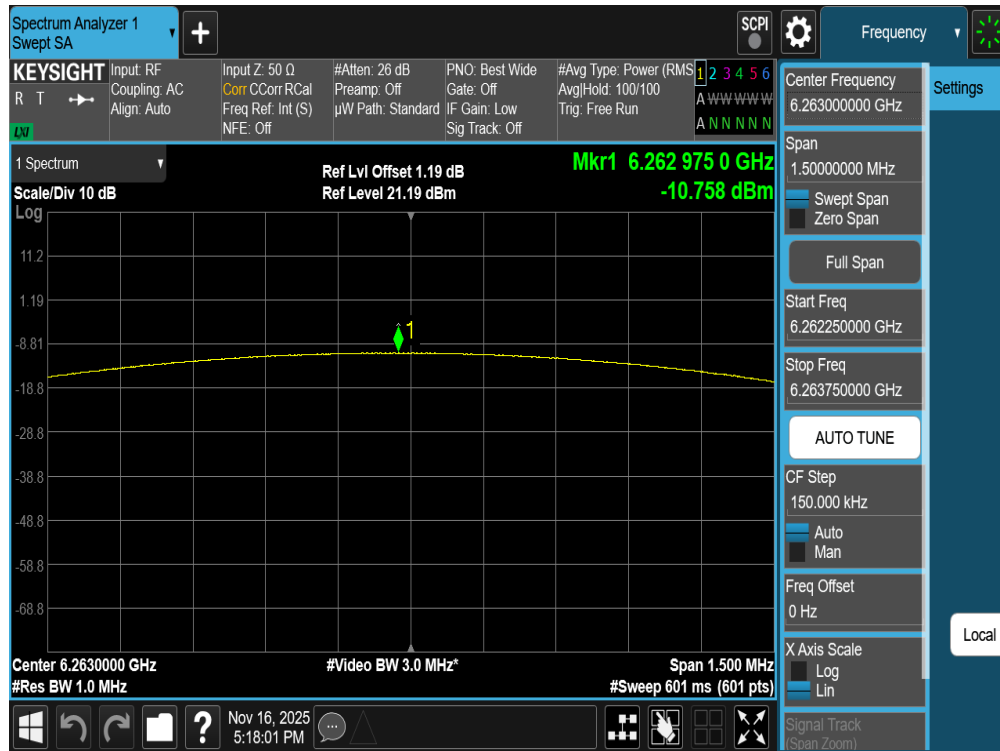
Frequency [MHz]	Data Rate [Mbps]	Mode	Power Scheme	Measured Power Density [dBm/MHz]	Antenna Gain [dBi]	e.i.r.p. Density [dBm/MHz]	Max Permissible Power Density [dBm/MHz]	Margin [dB]
6106	1.0	NB UNII BDR	ePA	-10.61	3.1	-7.51	-5.00	-2.51
6263	1.0	NB UNII BDR	ePA	-10.76	2.5	-8.26	-5.00	-3.26
6420	1.0	NB UNII BDR	ePA	-10.72	3.5	-7.22	-5.00	-2.22
6106	1.0	NB UNII BDR	IPA	-10.09	3.1	-6.99	-5.00	-1.99
6263	1.0	NB UNII BDR	IPA	-10.77	2.5	-8.27	-5.00	-3.27
6420	1.0	NB UNII BDR	IPA	-11.48	3.5	-7.98	-5.00	-2.98
6106	1.0	NB UNII LE1M	ePA	-11.00	3.1	-7.90	-5.00	-2.90
6263	1.0	NB UNII LE1M	ePA	-10.55	2.5	-8.05	-5.00	-3.05
6420	1.0	NB UNII LE1M	ePA	-10.35	3.5	-6.85	-5.00	-1.85
6106	1.0	NB UNII LE1M	IPA	-9.81	3.1	-6.71	-5.00	-1.71
6263	1.0	NB UNII LE1M	IPA	-10.65	2.5	-8.15	-5.00	-3.15
6420	1.0	NB UNII LE1M	IPA	-10.88	3.5	-7.38	-5.00	-2.38
6106	2.0	NB UNII LE2M	ePA	-11.17	3.1	-8.07	-5.00	-3.07
6263	2.0	NB UNII LE2M	ePA	-10.35	2.5	-7.85	-5.00	-2.85
6420	2.0	NB UNII LE2M	ePA	-10.79	3.5	-7.29	-5.00	-2.29
6106	2.0	NB UNII LE2M	IPA	-10.34	3.1	-7.24	-5.00	-2.24
6263	2.0	NB UNII LE2M	IPA	-10.97	2.5	-8.47	-5.00	-3.47
6420	2.0	NB UNII LE2M	IPA	-11.64	3.5	-8.14	-5.00	-3.14
6106	4.0	NB UNII HDR4	ePA	-10.24	3.1	-7.14	-5.00	-2.14
6263	4.0	NB UNII HDR4	ePA	-10.65	2.5	-8.15	-5.00	-3.15
6420	4.0	NB UNII HDR4	ePA	-10.50	3.5	-7.00	-5.00	-2.00
6106	4.0	NB UNII HDR4	IPA	-10.02	3.1	-6.92	-5.00	-1.92
6263	4.0	NB UNII HDR4	IPA	-10.71	2.5	-8.21	-5.00	-3.21
6420	4.0	NB UNII HDR4	IPA	-11.84	3.5	-8.34	-5.00	-3.34
6107	8.0	NB UNII HDR8	ePA	-11.64	3.1	-8.54	-5.00	-3.54
6263	8.0	NB UNII HDR8	ePA	-10.88	2.5	-8.38	-5.00	-3.38
6420	8.0	NB UNII HDR8	ePA	-12.07	3.5	-8.57	-5.00	-3.57
6107	8.0	NB UNII HDR8	IPA	-11.12	3.1	-8.02	-5.00	-3.02
6263	8.0	NB UNII HDR8	IPA	-11.79	2.5	-9.29	-5.00	-4.29
6420	8.0	NB UNII HDR8	IPA	-12.64	3.5	-9.14	-5.00	-4.14
6106	2.0	NB UNII HDRPS2	ePA	-10.83	3.1	-7.73	-5.00	-2.73
6263	2.0	NB UNII HDRPS2	ePA	-10.70	2.5	-8.20	-5.00	-3.20
6420	2.0	NB UNII HDRPS2	ePA	-11.13	3.5	-7.63	-5.00	-2.63
6106	2.0	NB UNII HDRPS2	IPA	-10.26	3.1	-7.16	-5.00	-2.16
6263	2.0	NB UNII HDRPS2	IPA	-10.63	2.5	-8.13	-5.00	-3.13
6420	2.0	NB UNII HDRPS2	IPA	-12.31	3.5	-8.81	-5.00	-3.81
6107	6.0	NB UNII XHDRPM6	ePA	-11.17	3.1	-8.07	-5.00	-3.07
6263	6.0	NB UNII XHDRPM6	ePA	-10.91	2.5	-8.41	-5.00	-3.41
6420	6.0	NB UNII XHDRPM6	ePA	-11.42	3.5	-7.92	-5.00	-2.92
6107	6.0	NB UNII XHDRPM6	IPA	-10.54	3.1	-7.44	-5.00	-2.44
6263	6.0	NB UNII XHDRPM6	IPA	-10.93	2.5	-8.43	-5.00	-3.43
6420	6.0	NB UNII XHDRPM6	IPA	-10.80	3.5	-7.30	-5.00	-2.30
6107	16.0	NB UNII HDRPM16	ePA	-11.21	3.1	-8.11	-5.00	-3.11
6263	16.0	NB UNII HDRPM16	ePA	-11.03	2.5	-8.53	-5.00	-3.53
6420	16.0	NB UNII HDRPM16	ePA	-11.52	3.5	-8.02	-5.00	-3.02
6107	16.0	NB UNII HDRPM16	IPA	-10.95	3.1	-7.85	-5.00	-2.85
6263	16.0	NB UNII HDRPM16	IPA	-11.51	2.5	-9.01	-5.00	-4.01
6420	16.0	NB UNII HDRPM16	IPA	-12.42	3.5	-8.92	-5.00	-3.92
6109	12.0	NB UNII HDRPL12	ePA	-11.26	3.1	-8.16	-5.00	-3.16
6263	12.0	NB UNII HDRPL12	ePA	-11.19	2.5	-8.69	-5.00	-3.69
6420	12.0	NB UNII HDRPL12	ePA	-11.56	3.5	-8.06	-5.00	-3.06
6109	12.0	NB UNII HDRPL12	IPA	-10.93	3.1	-7.83	-5.00	-2.83
6263	12.0	NB UNII HDRPL12	IPA	-11.60	2.5	-9.10	-5.00	-4.10
6420	12.0	NB UNII HDRPL12	IPA	-12.44	3.5	-8.94	-5.00	-3.94
6109	32.0	NB UNII HDRPL32	ePA	-11.16	3.1	-8.06	-5.00	-3.06
6263	32.0	NB UNII HDRPL32	ePA	-11.01	2.5	-8.51	-5.00	-3.51
6420	32.0	NB UNII HDRPL32	ePA	-11.76	3.5	-8.26	-5.00	-3.26
6109	32.0	NB UNII HDRPL32	IPA	-11.34	3.1	-8.24	-5.00	-3.24
6263	32.0	NB UNII HDRPL32	IPA	-11.01	2.5	-8.51	-5.00	-3.51
6420	32.0	NB UNII HDRPL32	IPA	-11.38	3.5	-7.88	-5.00	-2.88
6106	2.0	NB UNII HDT2	ePA	-10.90	3.1	-7.80	-5.00	-2.80
6263	2.0	NB UNII HDT2	ePA	-11.05	2.5	-8.55	-5.00	-3.55
6420	2.0	NB UNII HDT2	ePA	-11.26	3.5	-7.76	-5.00	-2.76
6106	2.0	NB UNII HDT2	IPA	-10.29	3.1	-7.19	-5.00	-2.19
6263	2.0	NB UNII HDT2	IPA	-10.97	2.5	-8.47	-5.00	-3.47
6420	2.0	NB UNII HDT2	IPA	-11.93	3.5	-8.43	-5.00	-3.43
6106	4.0	NB UNII HDT4	ePA	-10.92	3.1	-7.82	-5.00	-2.82
6263	4.0	NB UNII HDT4	ePA	-10.31	2.5	-7.81	-5.00	-2.81
6420	4.0	NB UNII HDT4	ePA	-10.71	3.5	-7.21	-5.00	-2.21
6106	4.0	NB UNII HDT4	IPA	-9.87	3.1	-6.77	-5.00	-1.77
6263	4.0	NB UNII HDT4	IPA	-10.49	2.5	-7.99	-5.00	-2.99
6420	4.0	NB UNII HDT4	IPA	-10.39	3.5	-6.89	-5.00	-1.89
6106	6.0	NB UNII HDT6	ePA	-11.72	3.1	-8.62	-5.00	-3.62
6263	6.0	NB UNII HDT6	ePA	-11.03	2.5	-8.53	-5.00	-3.53
6420	6.0	NB UNII HDT6	ePA	-11.68	3.5	-8.18	-5.00	-3.18
6106	6.0	NB UNII HDT6	IPA	-10.82	3.1	-7.72	-5.00	-2.72
6263	6.0	NB UNII HDT6	IPA	-11.43	2.5	-8.93	-5.00	-3.93
6420	6.0	NB UNII HDT6	IPA	-12.27	3.5	-8.77	-5.00	-3.77

Table 7-8. Power Spectral Density Measurements Antenna WF7a

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