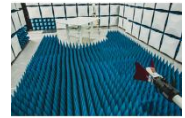




ELEMENT MATERIALS TECHNOLOGY

(formerly PCTEST)
18855 Adams Court, Morgan Hill, CA 95037 USA
Tel. 408.538.5600
<http://www.element.com>



MEASUREMENT REPORT FCC PART 15.407 Narrowband (NB) U-NII 5GHz

Applicant Name:

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

Date of Testing:

9/15/2025 - 12/22/2025

Test Report Issue Date:

1/28/2026

Test Site/Location:

Element Materials Technology, Morgan Hill, CA, USA

Test Report Serial No.:

1C2509100082-19-R1.BCG

FCC ID:

BCGA3462

APPLICANT:

Apple Inc.

Application Type:

Certification

Model:

A3462, A3464

EUT Type:

Tablet Device

Frequency Range:

5162 – 5245MHz, 5733 – 5844MHz

Modulation Type:

GFSK, $\pi/4$ DQPSK, OQPSK, 8PSK, 16QAM

FCC Classification:

Unlicensed National Information Infrastructure (UNII)

FCC Rule Part(s):

Part 15 Subpart E (15.407)

Test Procedure(s):

ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to
C63.10a:2024, KDB 789033 D02 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 789033 D02 v02r01. Test results reported herein relate only to the item(s) tested.

This revised Test Report (S/N: 1C2509100082-19-R1.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: BCGA3462	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Revision Summary

Revision	Date	Comments	Revised By
-	12/22/2025	Initial Release	WKR017014
R1	1/12/2026	Addressed TCB Technical Comments for Section 2.2	WKR017014

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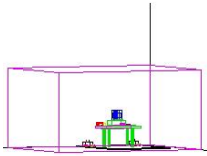
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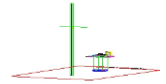
FCC ID: BCGA3462		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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MEASUREMENT REPORT



UNII Band	Tx Frequency [MHz]	Mode	Power Scheme	SISO						TxBF Primary		TxBF Diversity	
				Antenna 5T		Antenna 3b		Antenna 1b		Summed		Summed	
				Max. Power (mW)	Max. Power (dBm)	Max. Power (mW)	Max. Power (dBm)	Max. Power (mW)	Max. Power (dBm)	Max. Power (mW)	Max. Power (dBm)	Max. Power (mW)	Max. Power (dBm)
1	5162 - 5245	NB UNII BDR	ePA	9.311	9.69	9.727	9.88	9.506	9.78	9.506	9.78	9.572	9.81
			iPA	3.936	5.95	2.477	3.94	1.977	2.96	6.353	8.03	5.741	7.59
		NB UNII LE	ePA	11.722	10.69	12.246	10.88	12.218	10.87	12.274	10.89	12.078	10.82
			iPA	3.963	5.98	2.489	3.96	1.991	2.99	6.412	8.07	5.902	7.71
		NB UNII HDR	ePA	24.774	13.94	17.579	12.45	11.117	10.46	40.832	16.11	35.075	15.45
			iPA	1.560	1.93	0.995	-0.02	0.708	-1.50	2.570	4.10	2.286	3.59
		NB UNII HDT	ePA	16.749	12.24	17.258	12.37	11.194	10.49	16.904	12.28	17.100	12.33
			iPA	1.538	1.87	0.975	-0.11	0.689	-1.62	2.432	3.86	2.193	3.41
		NB UNII BDR	ePA	83.946	19.24	55.976	17.48	43.954	16.43	136.458	21.35	123.880	20.93
			iPA	3.981	6.00	2.371	3.75	1.977	2.96	6.138	7.88	5.636	7.51
3	5733 - 5844	NB UNII LE	ePA	87.700	19.43	53.951	17.32	43.152	16.35	139.316	21.44	126.183	21.01
			iPA	3.954	5.97	2.500	3.98	1.954	2.91	6.310	8.00	5.728	7.58
		NB UNII HDR	ePA	28.054	14.48	17.783	12.50	14.028	11.47	44.668	16.50	41.783	16.21
			iPA	1.406	1.48	0.991	-0.04	0.794	-1.00	2.382	3.77	2.183	3.39
		NB UNII HDT	ePA	28.119	14.49	17.660	12.47	14.060	11.48	44.361	16.47	41.305	16.16
			iPA	1.371	1.37	0.998	-0.01	0.794	-1.00	2.366	3.74	2.148	3.32

EUT Overview

FCC ID: BCGA3462	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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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.

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: BCGA3462**. 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.: GFMQVYCQJT, XK74M9C76M, X75XVRPX96, QKFQN7VXR5, DLXHKL0003C00013Z2, DLXHKL0002U00013Z2

2.2 Device Capabilities

This device contains the following capabilities:

850/1700/1900 WCDMA/HSPA, Multi-band LTE, 5G NR (FR1), 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.

Band 1	Band 3
Frequency (MHz)	Frequency (MHz)
5162	5733
:	:
5203	5788
:	:
5245	5844

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

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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 1 & U-NII Band 3. 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 5T		Antenna 3b		Antenna 1b		TxBF Primary		TxBF Diversity	
		Duty Cycle [%]	DCCF [dB]	Duty Cycle [%]	DCCF [dB]	Duty Cycle [%]	DCCF [dB]	Duty Cycle [%]	DCCF [dB]	Duty Cycle [%]	DCCF [dB]
BDR	ePA	76.296	1.175	76.243	1.178	76.296	1.175	76.771	1.148	76.085	1.187
	iPA	76.296	1.175	76.243	1.178	76.296	1.175	76.771	1.148	76.085	1.187
LE1M	ePA	85.016	0.705	84.879	0.712	84.879	0.712	84.840	0.714	84.840	0.714
	iPA	85.016	0.705	84.879	0.712	84.879	0.712	84.840	0.714	84.840	0.714
LE2M	ePA	56.494	2.480	57.056	2.437	56.872	2.451	56.455	2.483	56.872	2.451
	iPA	56.494	2.480	57.056	2.437	56.872	2.451	56.455	2.483	56.872	2.451
HDR4	ePA	77.947	1.082	77.553	1.104	77.500	1.107	77.804	1.090	77.500	1.107
	iPA	77.947	1.082	77.553	1.104	77.500	1.107	77.804	1.090	77.500	1.107
HDR8	ePA	77.965	1.081	96.494	0.155	95.192	0.214	96.805	0.141	96.494	0.155
	iPA	77.965	1.081	96.494	0.155	95.192	0.214	96.805	0.141	96.494	0.155
HDRPS2	ePA	91.770	0.373	92.003	0.362	91.770	0.373	92.130	0.356	91.981	0.363
	iPA	91.770	0.373	92.003	0.362	91.770	0.373	92.130	0.356	91.981	0.363
XHDRPS2	ePA	98.878	0.049	98.311	0.074	98.084	0.084	98.401	0.070	98.084	0.084
	iPA	98.878	0.049	98.311	0.074	98.084	0.084	98.401	0.070	98.084	0.084
XHDRPM6	ePA	86.417	0.634	86.080	0.651	86.080	0.651	86.397	0.635	86.080	0.651
	iPA	86.417	0.634	86.080	0.651	86.080	0.651	86.397	0.635	86.080	0.651
XHDRPM8	ePA	92.045	0.360	92.045	0.360	92.257	0.350	92.257	0.350	91.854	0.369
	iPA	92.045	0.360	92.045	0.360	92.257	0.350	92.257	0.350	91.854	0.369
HDRPM16	ePA	89.743	0.470	89.743	0.470	89.475	0.483	89.372	0.488	89.805	0.467
	iPA	89.743	0.470	89.743	0.470	89.475	0.483	89.372	0.488	89.805	0.467
XHDRPM16	ePA	87.519	0.579	87.317	0.589	87.640	0.573	87.781	0.566	87.700	0.570
	iPA	87.519	0.579	87.317	0.589	87.640	0.573	87.781	0.566	87.700	0.570
HDRPL12	ePA	89.888	0.463	90.095	0.453	90.095	0.453	90.511	0.433	90.261	0.445
	iPA	89.888	0.463	90.095	0.453	90.095	0.453	90.511	0.433	90.261	0.445
XHDRPL16	ePA	95.214	0.213	95.236	0.212	95.345	0.207	95.214	0.213	95.017	0.222
	iPA	95.214	0.213	95.236	0.212	95.345	0.207	95.214	0.213	95.017	0.222
HDRPL32	ePA	88.675	0.522	88.410	0.535	88.797	0.516	88.675	0.522	88.675	0.522
	iPA	88.675	0.522	88.410	0.535	88.797	0.516	88.675	0.522	88.675	0.522
XHDRPL32	ePA	86.159	0.647	85.981	0.656	86.000	0.655	85.862	0.662	85.763	0.667
	iPA	86.159	0.647	85.981	0.656	86.000	0.655	85.862	0.662	85.763	0.667
HDT2	ePA	95.940	0.180	96.316	0.163	96.161	0.170	96.316	0.163	96.494	0.155
	iPA	95.940	0.180	96.316	0.163	96.161	0.170	96.316	0.163	96.494	0.155
HDT4	ePA	93.691	0.283	93.691	0.283	93.627	0.286	93.304	0.301	93.498	0.292
	iPA	93.691	0.283	93.691	0.283	93.627	0.286	93.304	0.301	93.498	0.292
HDT6	ePA	90.782	0.420	90.615	0.428	90.824	0.418	90.532	0.432	90.448	0.436
	iPA	90.782	0.420	90.615	0.428	90.824	0.418	90.532	0.432	90.448	0.436
HDT8	ePA	89.454	0.484	89.269	0.493	89.269	0.493	88.859	0.513	89.002	0.506
	iPA	89.454	0.484	89.269	0.493	89.269	0.493	88.859	0.513	89.002	0.506

Table 2-3. Measured Duty Cycles

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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	LTE / FR1 NR		
		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	LB	MB/HB	UHB
Ant 1a	Config 1	✗	✗	✓	✗	✗	✗	✗	✗	✓
Ant 1a	Config 2	✓	✗	✗	✗	✗	✗	✗	✗	✓
Ant 1a	Config 3	✗	✓	✗	✗	✗	✗	✗	✗	✓
Ant 1b	Config 4	✗	✗	✗	✗	✓	✗	✗	✓	✗
Ant 1b	Config 5	✗	✗	✗	✗	✗	✓	✗	✓	✗
Ant 1b	Config 6	✗	✗	✗	✓	✗	✗	✗	✓	✗
Ant 3a	Config 7	✗	✗	✓	✗	✗	✗	✗	✗	✓
Ant 3a	Config 8	✓	✗	✗	✗	✗	✗	✗	✗	✓
Ant 3a	Config 9	✗	✓	✗	✗	✗	✗	✗	✗	✓
Ant 3b	Config 10	✗	✗	✗	✗	✓	✗	✗	✓	✗
Ant 3b	Config 11	✗	✗	✗	✗	✗	✓	✗	✓	✗
Ant 3b	Config 12	✗	✗	✗	✓	✗	✗	✗	✓	✗

Table 2-4. Simultaneous Transmission Configurations

✓ = Support; ✗ = Not Support

TxBF Primary = Antenna 5T + Antenna 3b

TxBF Diversity = Antenna 5T + Antenna 1b

Note:

All the above simultaneous transmission configurations have been tested and the worst-case configuration was found to be Config 8 and reported in RF Bluetooth and RF Part 96 test reports.

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2.3 Antenna Description

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

Frequency [MHz]	Antenna Gain (dBi)		
	Antenna 5T	Antenna 3b	Antenna 1b
5162 - 5245	-1.8	-1.0	-0.7
5733 – 5844	3.2	1.2	0.0

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:	GXK1336018XKTR024
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

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 and KDB 789033 D02 v02r01. 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, and 7.5 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 are the worst case NB UNII rates were used for testing:

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

For radiated band edge, the following are the worst case NB UNII 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. HDT2
12. HDT8

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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 7.8. 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
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.

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7.0 TEST RESULTS

7.1 Summary

Company Name: Apple Inc.

FCC ID: BCGA3462

FCC Classification: Unlicensed National Information Infrastructure (UNII)

FCC Part Section(s)	Test Description	Test Limit	Test Condition	Test Result	Reference
15.407	26dB Bandwidth	N/A	CONDUCTED	N/A	Section 7.2
15.407(e)	6dB Bandwidth	>500kHz(5725-5850MHz)		PASS	Section 7.3
2.1049	Occupied Bandwidth	N/A		N/A	Section 7.2, 7.3
15.407 (a.1.iv), (a.3.i)	Maximum Conducted Output Power	Maximum conducted powers must meet the limits detailed in 15.407 (a)		PASS	Section 7.4
15.407 (a.1.iv), (a.3.i)	Maximum Power Spectral Density	Maximum power spectral density must meet the limits detailed in 15.407 (a)		PASS	Section 7.5
15.407(b.1), (b.4)	Undesirable Emissions	Undesirable emissions must meet the limits detailed in 15.407(b)	RADIATED	PASS	Section 7.6
15.205, 15.407(b.1), (b.4)	General Field Strength Limits (Restricted Bands and Radiated Emission Limits)	Emissions in restricted bands must meet the radiated limits detailed in 15.209		PASS	Section 7.6, 7.7
15.207	AC Conducted Emissions 150kHz – 30MHz	< FCC 15.207 limits	AC LINE CONDUCTED	PASS	Section 7.8

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

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 – Subclause 12.5.2.
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 has been reported.

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7.2.1 Antenna 5T 26dB & 99% Bandwidth Measurements (U-NII-1)

Frequency [MHz]	Data Rate [Mbps]	Mode	Power Scheme	Measured 99% Occupied Bandwidth [MHz]	Measured 26dB Bandwidth [MHz]
5162	1.0	NB UNII BDR	ePA	0.930	1.249
5203	1.0	NB UNII BDR	ePA	0.930	1.248
5245	1.0	NB UNII BDR	ePA	0.930	1.248
5162	1.0	NB UNII LE1M	ePA	1.015	1.261
5203	1.0	NB UNII LE1M	ePA	1.015	1.262
5245	1.0	NB UNII LE1M	ePA	1.015	1.261
5162	2.0	NB UNII LE2M	ePA	2.031	2.511
5203	2.0	NB UNII LE2M	ePA	2.031	2.511
5245	2.0	NB UNII LE2M	ePA	2.030	2.510
5162	4.0	NB UNII HDR4	ePA	2.324	2.717
5203	4.0	NB UNII HDR4	ePA	2.326	2.713
5245	4.0	NB UNII HDR4	ePA	2.327	2.716
5162	8.0	NB UNII HDR8	ePA	4.607	5.309
5203	8.0	NB UNII HDR8	ePA	4.616	5.293
5245	8.0	NB UNII HDR8	ePA	4.613	5.309
5162	2.0	NB UNII HDRPS2	ePA	2.374	2.677
5203	2.0	NB UNII HDRPS2	ePA	2.375	2.689
5245	2.0	NB UNII HDRPS2	ePA	2.370	2.685
5162	6.0	NB UNII XHDRPM6	ePA	4.737	5.515
5203	6.0	NB UNII XHDRPM6	ePA	4.737	5.416
5245	6.0	NB UNII XHDRPM6	ePA	4.708	5.369
5162	16.0	NB UNII HDRPM16	ePA	4.671	5.327
5203	16.0	NB UNII HDRPM16	ePA	4.682	5.283
5245	16.0	NB UNII HDRPM16	ePA	4.672	5.347
5162	12.0	NB UNII HDRPL12	ePA	9.364	10.619
5203	12.0	NB UNII HDRPL12	ePA	9.378	10.642
5245	12.0	NB UNII HDRPL12	ePA	9.362	10.635
5162	32.0	NB UNII HDRPL32	ePA	9.282	10.529
5203	32.0	NB UNII HDRPL32	ePA	9.268	10.543
5245	32.0	NB UNII HDRPL32	ePA	9.276	10.545
5162	2.0	NB UNII HDT2	ePA	2.350	2.745
5203	2.0	NB UNII HDT2	ePA	2.350	2.746
5245	2.0	NB UNII HDT2	ePA	2.350	2.746
5162	4.0	NB UNII HDT4	ePA	2.359	2.814
5203	4.0	NB UNII HDT4	ePA	2.359	2.813
5245	4.0	NB UNII HDT4	ePA	2.359	2.813
5162	6.0	NB UNII HDT6	ePA	2.389	2.788
5203	6.0	NB UNII HDT6	ePA	2.389	2.789
5245	6.0	NB UNII HDT6	ePA	2.389	2.788

Table 7-2. Conducted BW Measurements Antenna 5T

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Plot 7-1. 26dB BW Antenna 5T (NB UNII BDR, ePA- 5203MHz)



Plot 7-2. 26dB BW Antenna 5T (NB UNII LE1M, ePA- 5203MHz)

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Plot 7-3. 26dB BW Antenna 5T (NB UNII LE2M, ePA- 5203MHz)

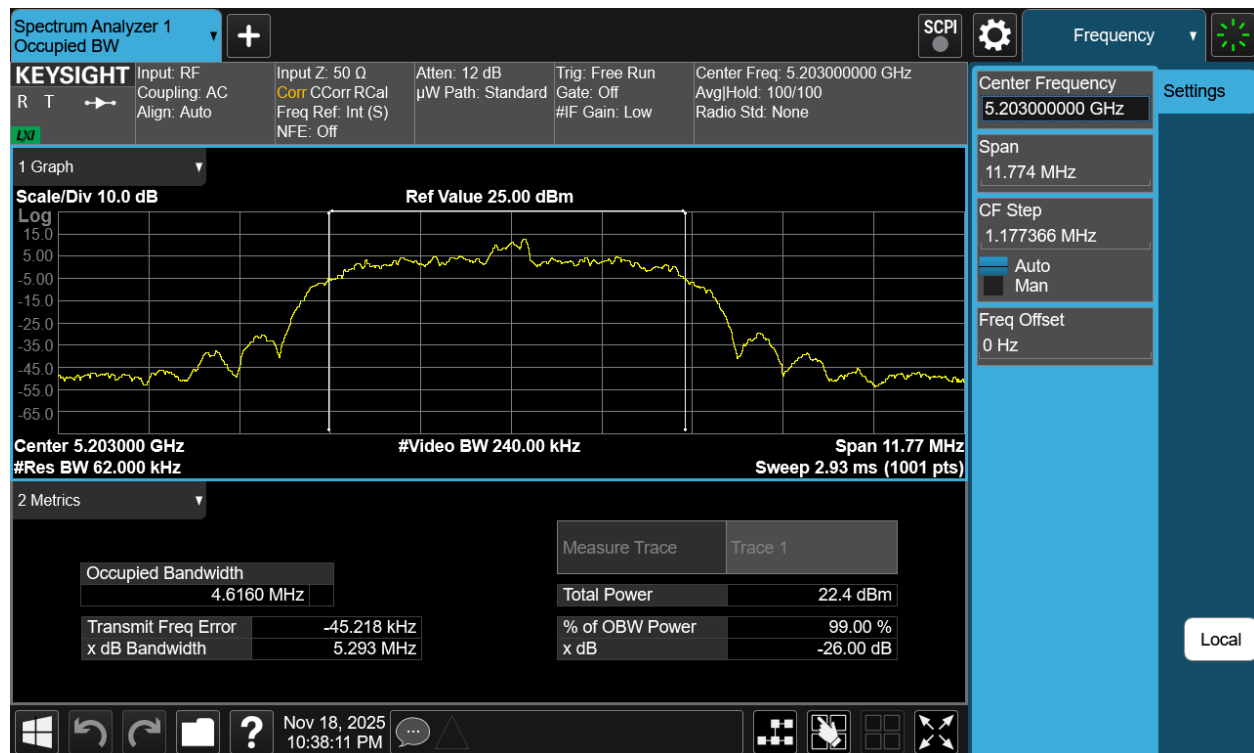


Plot 7-4. 26dB BW Antenna 5T (NB UNII HDR4, ePA- 5203MHz)

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Plot 7-5. 26dB BW Antenna 5T (NB UNII HDR8, ePA– 5203MHz)

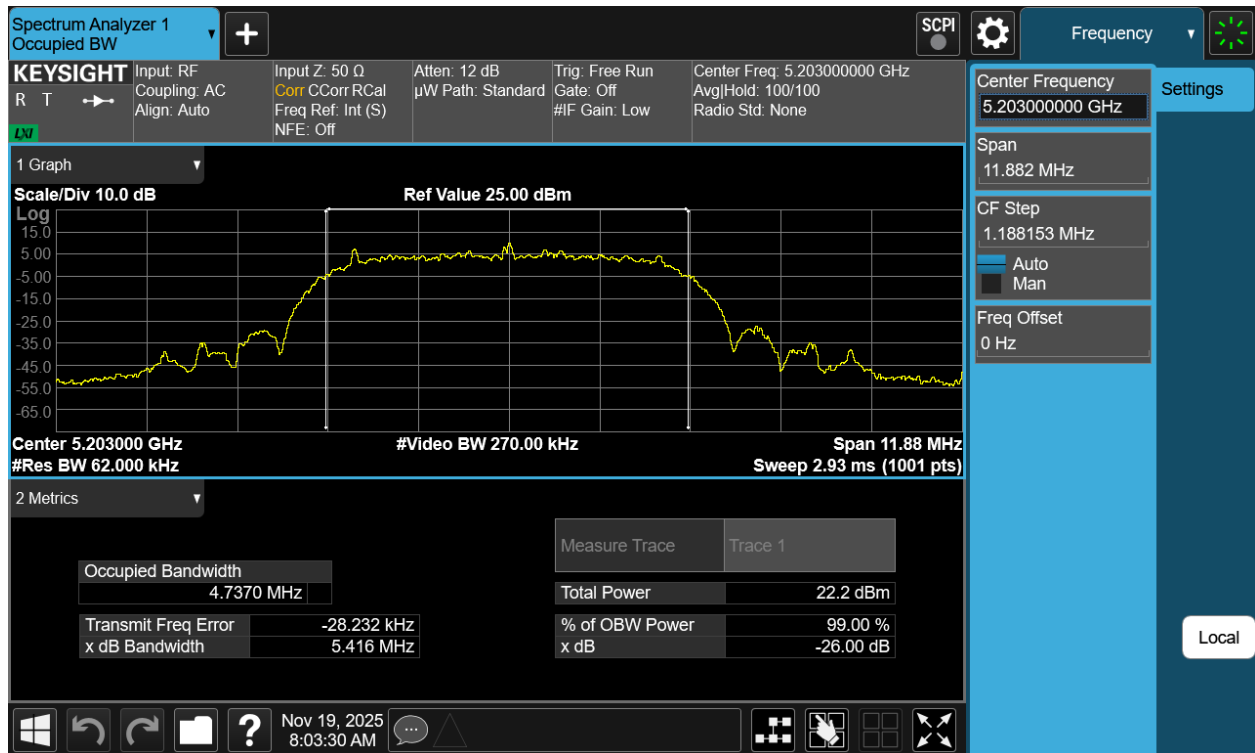


Plot 7-6. 26dB BW Antenna 5T (NB UNII HDRPS2, ePA– 5203MHz)

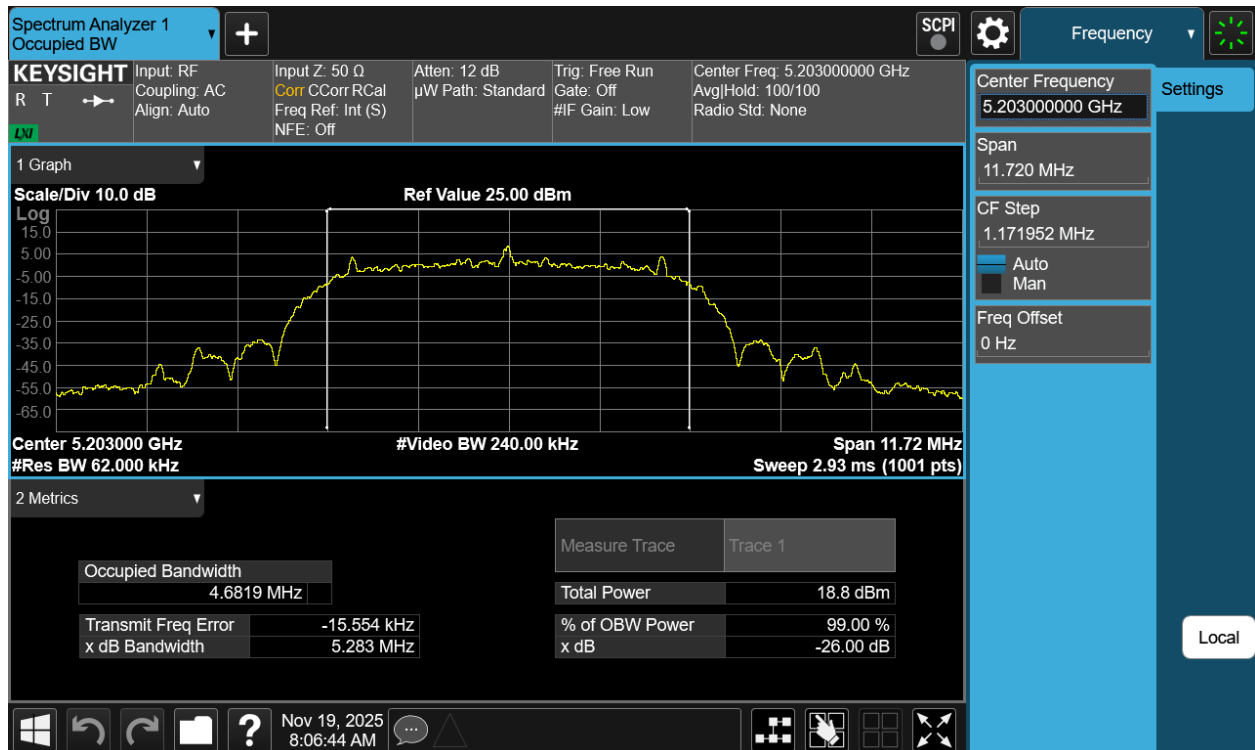
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Plot 7-7. 26dB BW Antenna 5T (NB UNII XHDRPM6, ePA- 5203MHz)

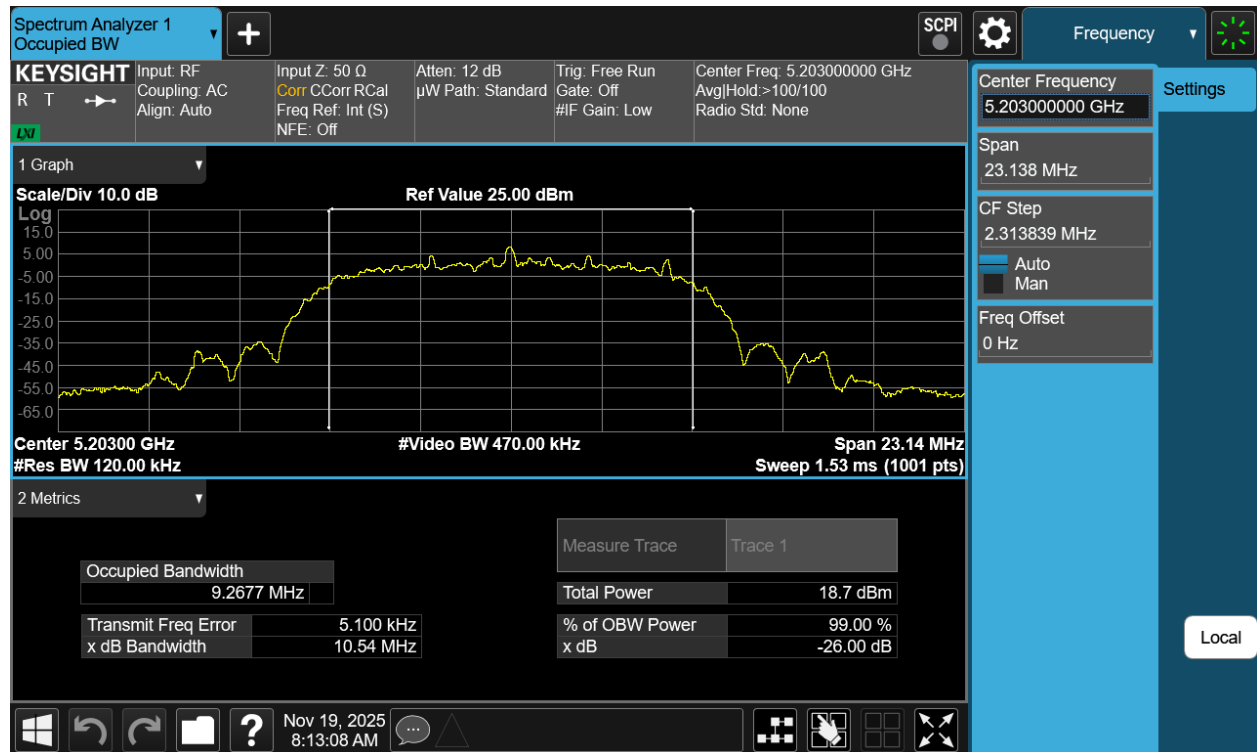
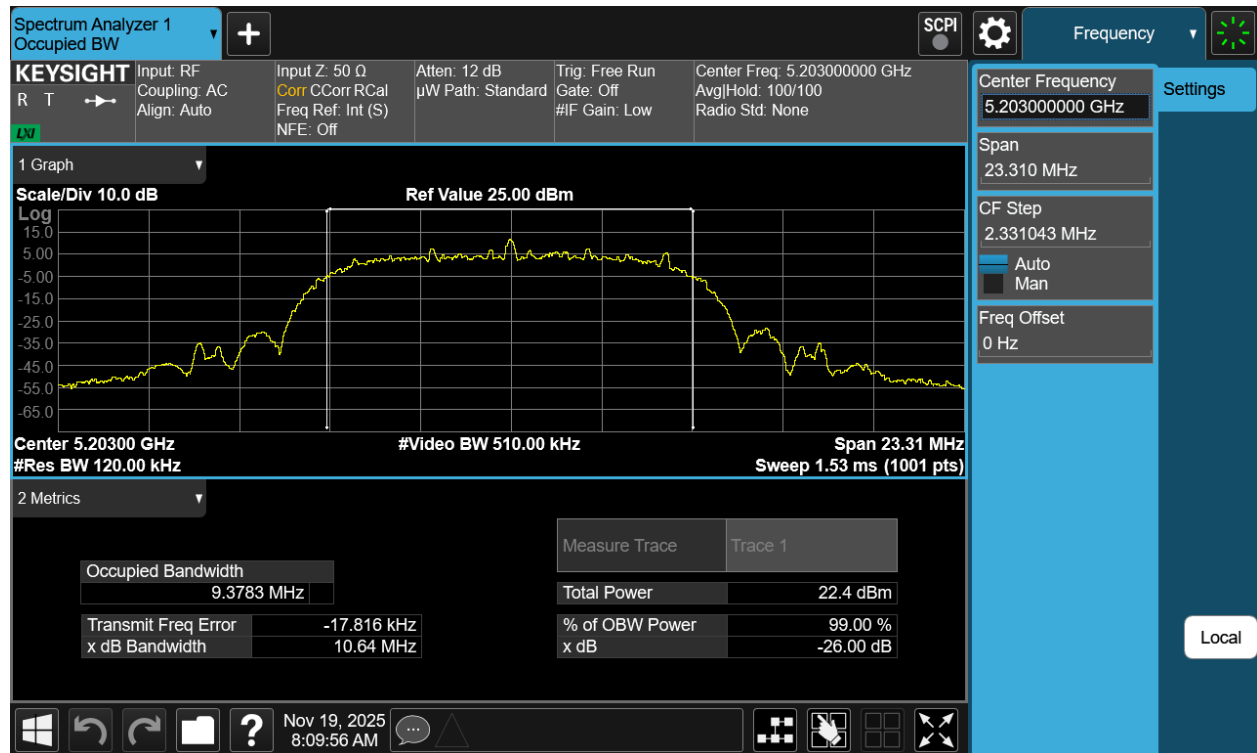


Plot 7-8. 26dB BW Antenna 5T (NB UNII HDRPM16, ePA- 5203MHz)

FCC ID: BCGA3462	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2509100082-19-R1.BCG	Test Dates: 9/15/2025 - 12/22/2025	EUT Type: Tablet Device	Page 24 of 439

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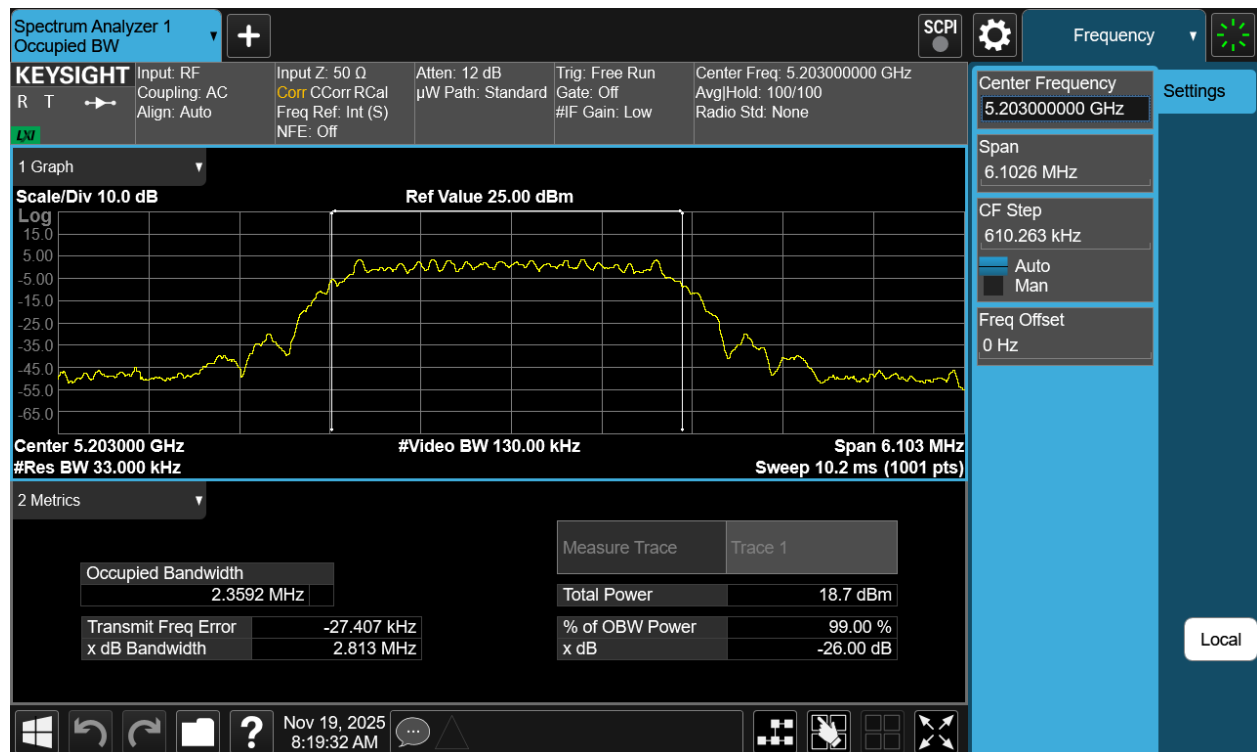
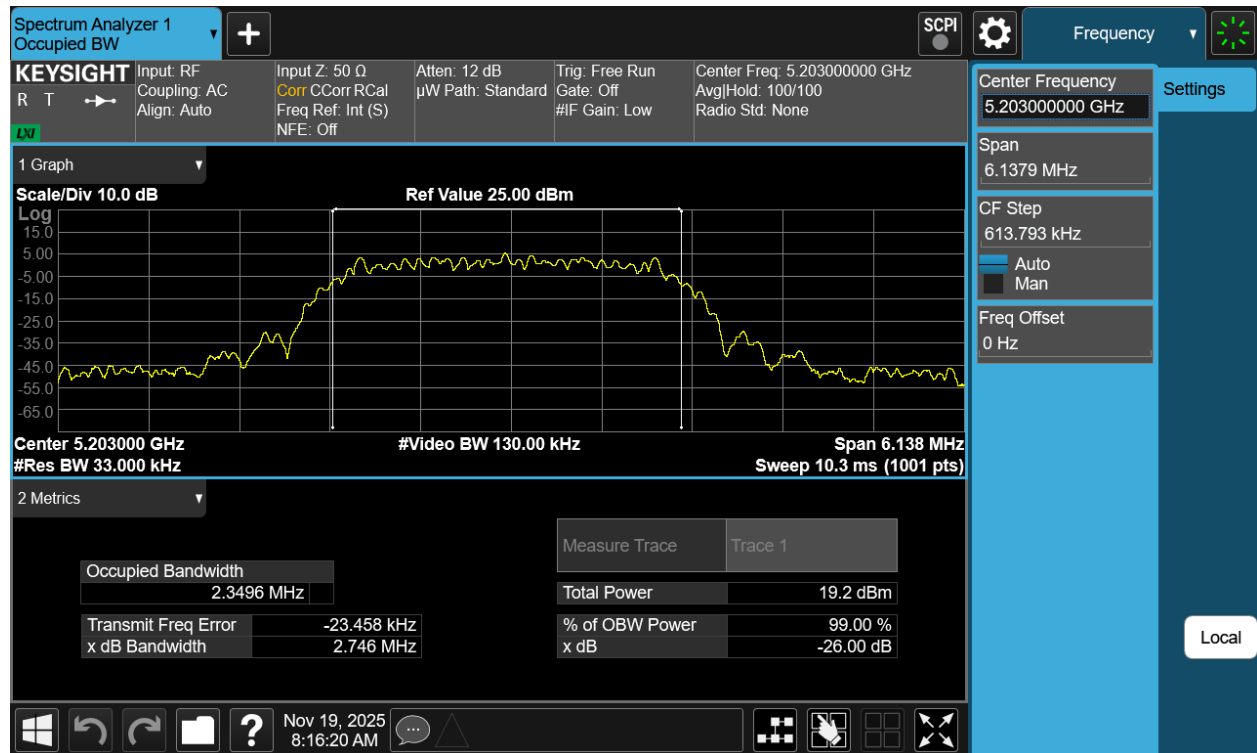
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FCC ID: BCGA3462		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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FCC ID: BCGA3462		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-13. 26dB BW Antenna 5T (NB UNII HDT6, ePA– 5203MHz)

FCC ID: BCGA3462		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100082-19-R1.BCG	Test Dates: 9/15/2025 - 12/22/2025	EUT Type: Tablet Device	Page 27 of 439

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7.2.2 Antenna 5T 99% Bandwidth Measurements (U-NII-3)

Frequency [MHz]	Data Rate [Mbps]	Mode	Power Scheme	Measured 99% Occupied Bandwidth [MHz]
5733	1.0	NB UNII BDR	ePA	0.935
5788	1.0	NB UNII BDR	ePA	0.935
5844	1.0	NB UNII BDR	ePA	0.935
5733	1.0	NB UNII LE1M	ePA	1.014
5788	1.0	NB UNII LE1M	ePA	1.014
5844	1.0	NB UNII LE1M	ePA	1.014
5733	2.0	NB UNII LE2M	ePA	2.036
5788	2.0	NB UNII LE2M	ePA	2.036
5844	2.0	NB UNII LE2M	ePA	2.036
5733	4.0	NB UNII HDR4	ePA	2.332
5788	4.0	NB UNII HDR4	ePA	2.333
5844	4.0	NB UNII HDR4	ePA	2.331
5733	8.0	NB UNII HDR8	ePA	4.673
5788	8.0	NB UNII HDR8	ePA	4.686
5844	8.0	NB UNII HDR8	ePA	4.660
5733	2.0	NB UNII HDRPS2	ePA	2.379
5788	2.0	NB UNII HDRPS2	ePA	2.375
5844	2.0	NB UNII HDRPS2	ePA	2.378
5733	6.0	NB UNII XHDRPM6	ePA	4.774
5788	6.0	NB UNII XHDRPM6	ePA	4.737
5844	6.0	NB UNII XHDRPM6	ePA	4.766
5733	16.0	NB UNII HDRPM16	ePA	4.710
5788	16.0	NB UNII HDRPM16	ePA	4.702
5844	16.0	NB UNII HDRPM16	ePA	4.693
5733	12.0	NB UNII HDRPL12	ePA	9.414
5788	12.0	NB UNII HDRPL12	ePA	9.445
5844	12.0	NB UNII HDRPL12	ePA	9.427
5733	32.0	NB UNII HDRPL32	ePA	9.305
5788	32.0	NB UNII HDRPL32	ePA	9.306
5844	32.0	NB UNII HDRPL32	ePA	9.296
5733	2.0	NB UNII HDT2	ePA	2.374
5788	2.0	NB UNII HDT2	ePA	2.374
5844	2.0	NB UNII HDT2	ePA	2.375
5733	4.0	NB UNII HDT4	ePA	2.384
5788	4.0	NB UNII HDT4	ePA	2.384
5844	4.0	NB UNII HDT4	ePA	2.384
5733	6.0	NB UNII HDT6	ePA	2.391
5788	6.0	NB UNII HDT6	ePA	2.390
5844	6.0	NB UNII HDT6	ePA	2.391

Table 7-3. Conducted BW Measurements Antenna 5T

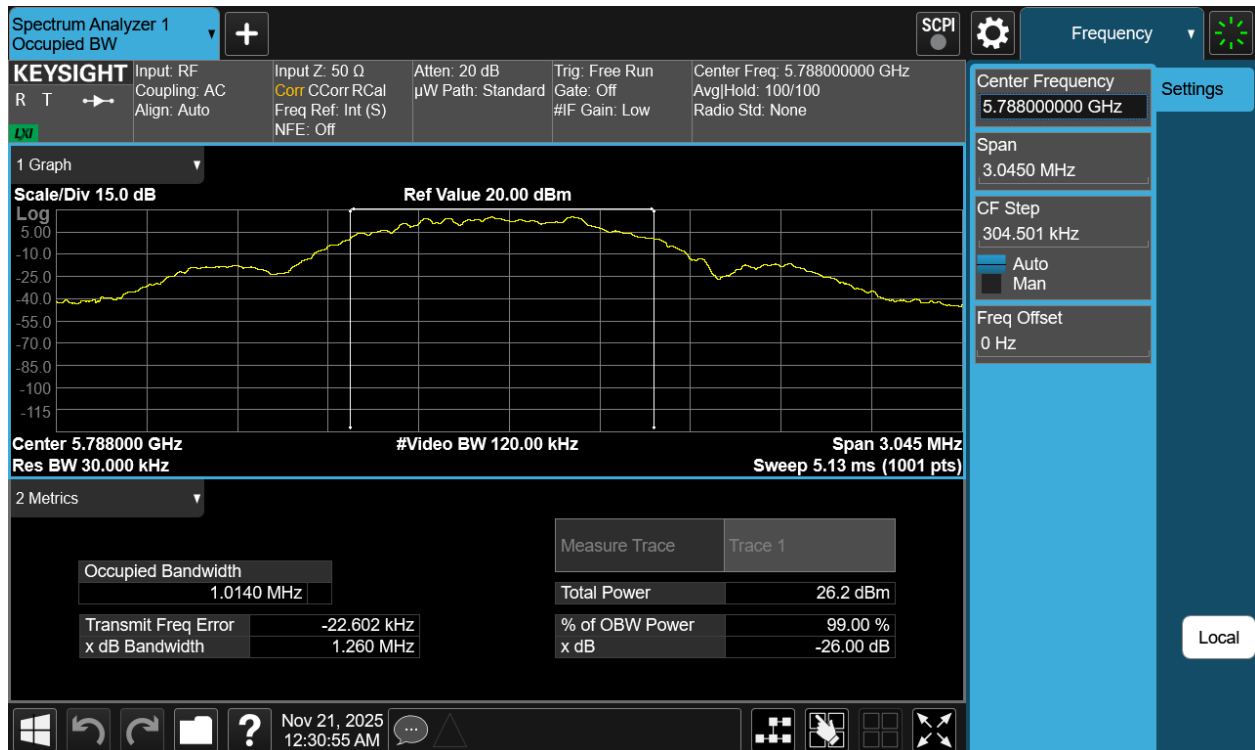
FCC ID: BCGA3462	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2509100082-19-R1.BCG	Test Dates: 9/15/2025 - 12/22/2025	EUT Type: Tablet Device	Page 28 of 439

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Plot 7-14. 99% OBW Antenna 5T (NB UNII BDR, ePA – 5788MHz)

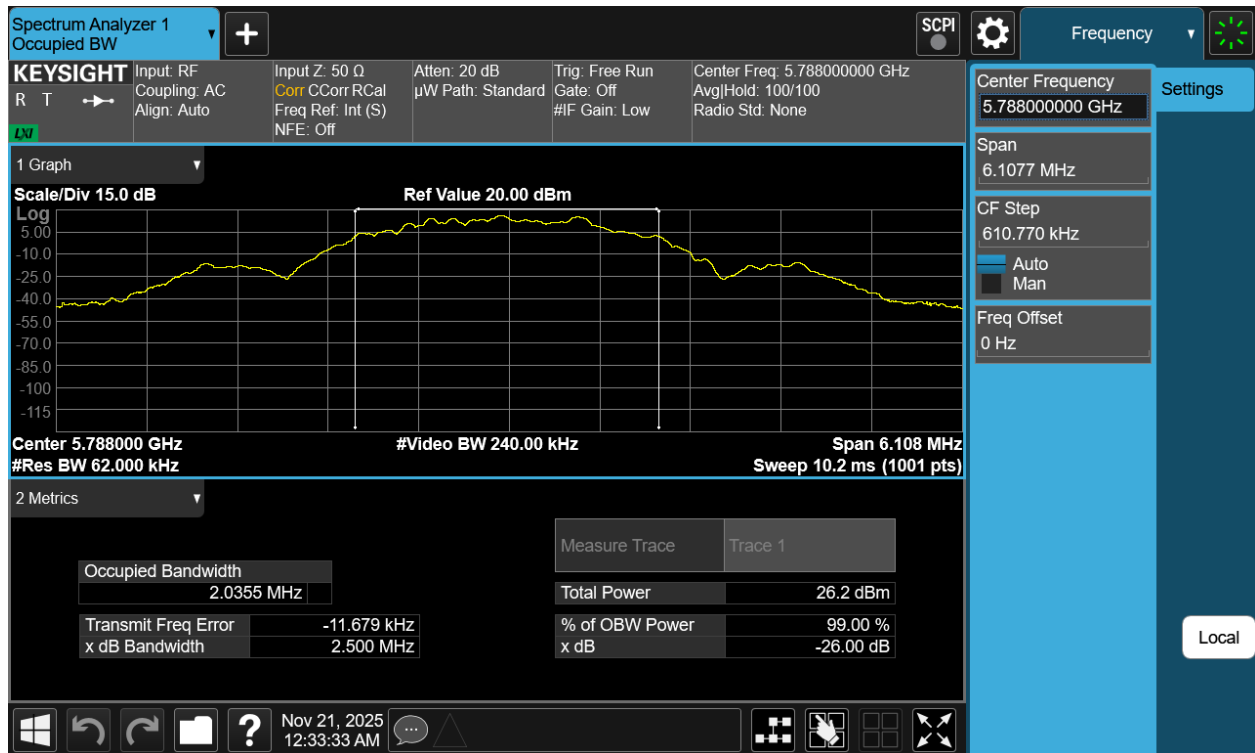


Plot 7-15. 99% OBW Antenna 5T (NB UNII LE1M, ePA– 5788MHz)

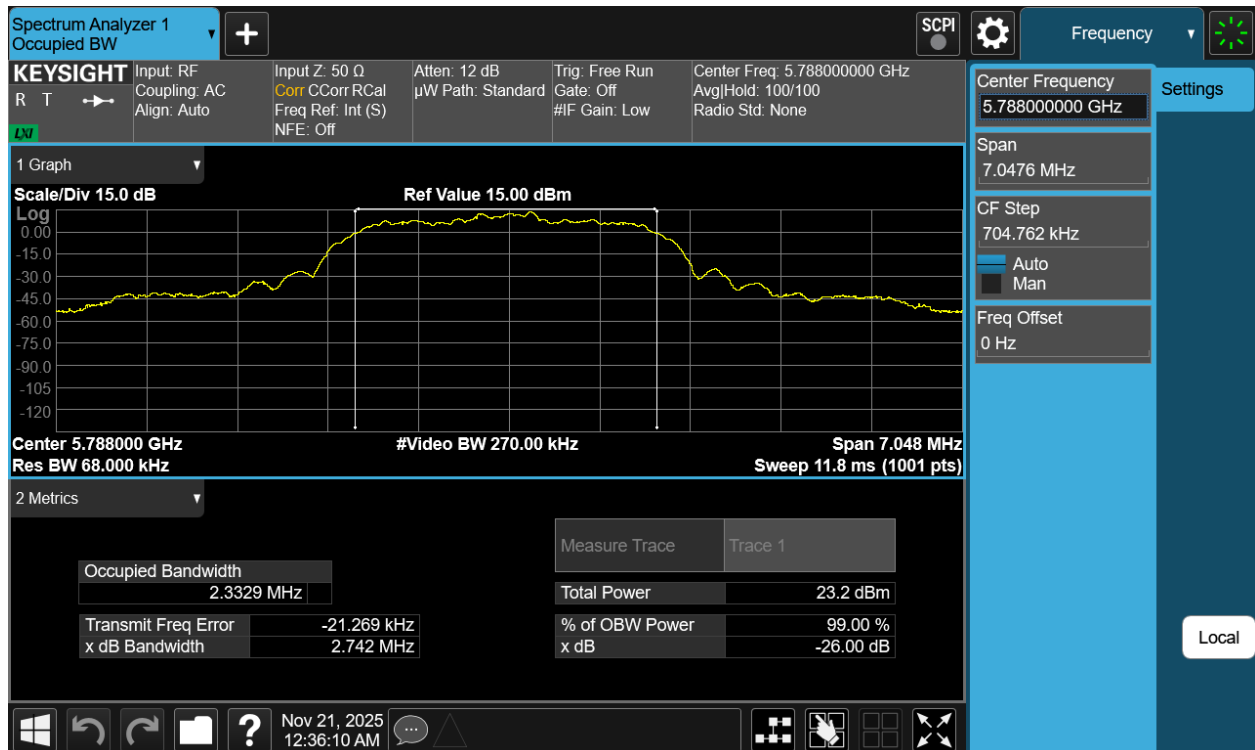
FCC ID: BCGA3462		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-16. 99% OBW Antenna 5T (NB UNII LE2M, ePA- 5788MHz)

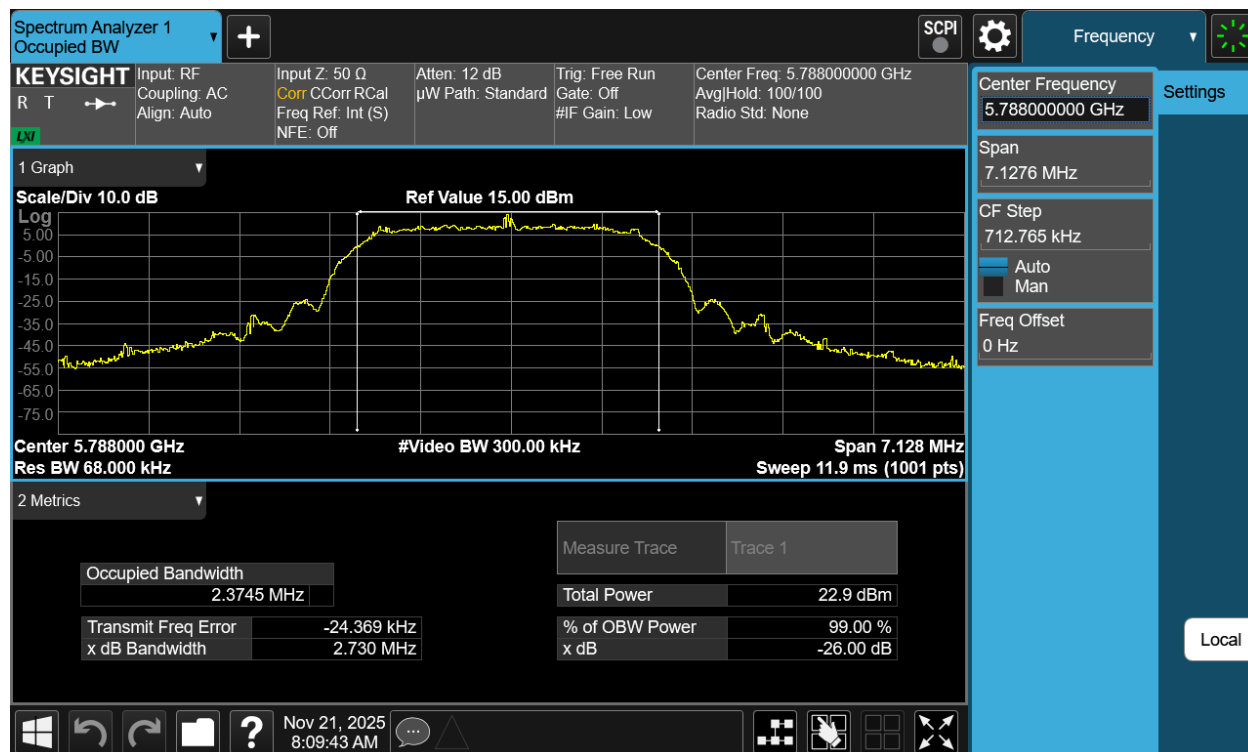


Plot 7-17. 99% OBW Antenna 5T (NB UNII HDR4, ePA – 5788MHz)

FCC ID: BCGA3462	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2509100082-19-R1.BCG	Test Dates: 9/15/2025 - 12/22/2025	EUT Type: Tablet Device	Page 30 of 439



Plot 7-18. 99% OBW Antenna 5T (NB UNII HDR8, ePA – 5788MHz)

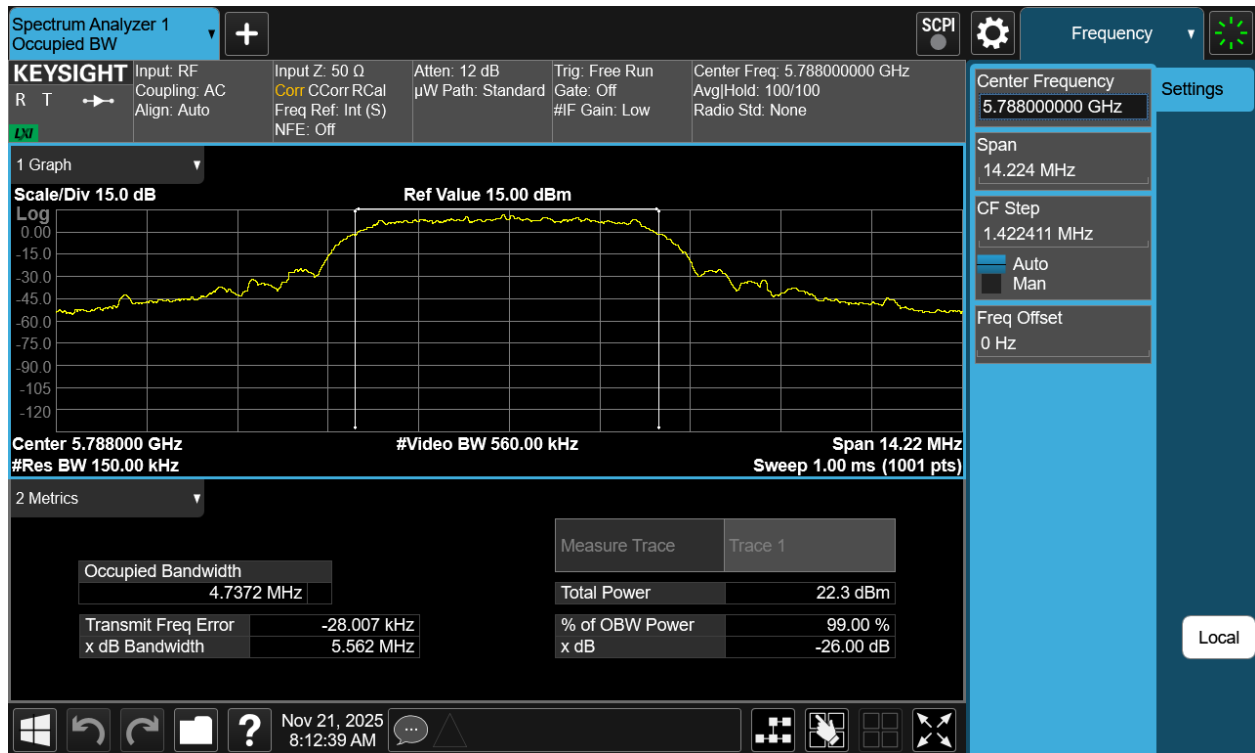


Plot 7-19. 99% OBW Antenna 5T (NB UNII HDRPS2, ePA – 5788MHz)

FCC ID: BCGA3462		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100082-19-R1.BCG	Test Dates: 9/15/2025 - 12/22/2025	EUT Type: Tablet Device	Page 31 of 439

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Plot 7-20. 99% OBW Antenna 5T (NB UNII XHDRPM6, ePA – 5788MHz)

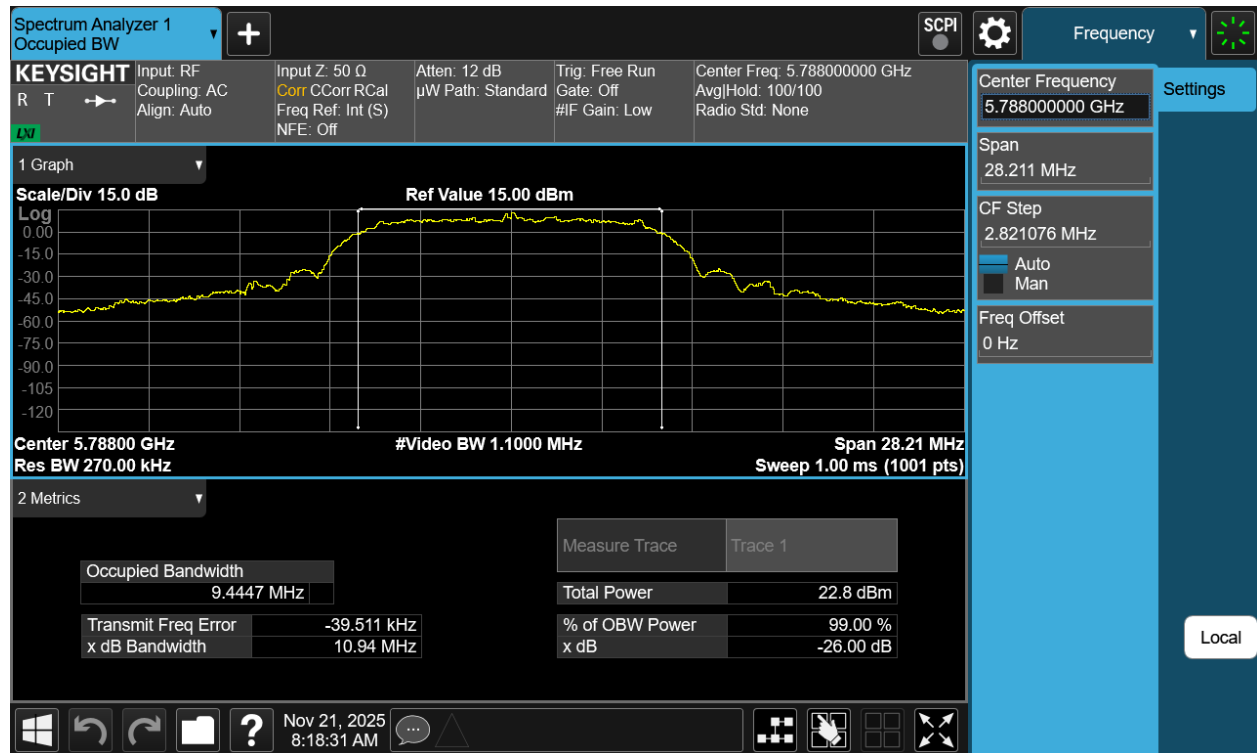


Plot 7-21. 99% OBW Antenna 5T (NB UNII HDRPM16, ePA – 5788MHz)

FCC ID: BCGA3462	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2509100082-19-R1.BCG	Test Dates: 9/15/2025 - 12/22/2025	EUT Type: Tablet Device	Page 32 of 439

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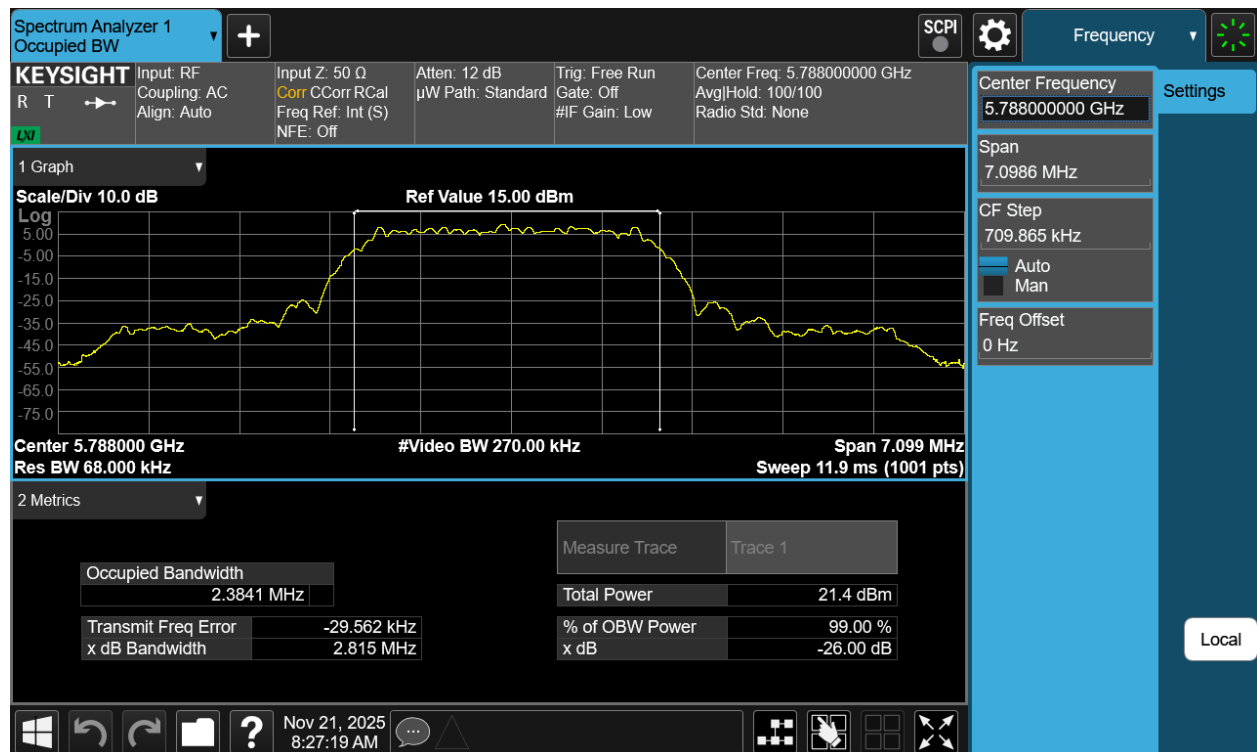


Plot 7-22. 99% OBW Antenna 5T (NB UNII HDRPL12, ePA - 5788MHz)



Plot 7-23. 99% OBW Antenna 5T (NB UNII HDRPL32, ePA - 5788MHz)

FCC ID: BCGA3462	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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FCC ID: BCGA3462	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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7.2.3 Antenna 3b 26dB & 99% Bandwidth Measurements (U-NII-1)

Frequency [MHz]	Data Rate [Mbps]	Mode	Power Scheme	Measured 99% Occupied Bandwidth [MHz]	Measured 26dB Bandwidth [MHz]
5162	1.0	NB UNII BDR	ePA	0.930	1.249
5203	1.0	NB UNII BDR	ePA	0.930	1.248
5245	1.0	NB UNII BDR	ePA	0.930	1.247
5162	1.0	NB UNII LE1M	ePA	1.015	1.260
5203	1.0	NB UNII LE1M	ePA	1.015	1.261
5245	1.0	NB UNII LE1M	ePA	1.015	1.261
5162	2.0	NB UNII LE2M	ePA	2.030	2.510
5203	2.0	NB UNII LE2M	ePA	2.030	2.510
5245	2.0	NB UNII LE2M	ePA	2.030	2.511
5162	4.0	NB UNII HDR4	ePA	2.325	2.710
5203	4.0	NB UNII HDR4	ePA	2.325	2.708
5245	4.0	NB UNII HDR4	ePA	2.325	2.709
5162	8.0	NB UNII HDR8	ePA	4.612	5.318
5203	8.0	NB UNII HDR8	ePA	4.611	5.303
5245	8.0	NB UNII HDR8	ePA	4.615	5.309
5162	2.0	NB UNII HDRPS2	ePA	2.373	2.675
5203	2.0	NB UNII HDRPS2	ePA	2.370	2.674
5245	2.0	NB UNII HDRPS2	ePA	2.371	2.677
5162	6.0	NB UNII XHDRPM6	ePA	4.725	5.368
5203	6.0	NB UNII XHDRPM6	ePA	4.714	5.375
5245	6.0	NB UNII XHDRPM6	ePA	4.705	5.377
5162	16.0	NB UNII HDRPM16	ePA	4.674	5.283
5203	16.0	NB UNII HDRPM16	ePA	4.657	5.278
5245	16.0	NB UNII HDRPM16	ePA	4.673	5.346
5162	12.0	NB UNII HDRPL12	ePA	9.346	10.649
5203	12.0	NB UNII HDRPL12	ePA	9.367	10.626
5245	12.0	NB UNII HDRPL12	ePA	9.364	10.628
5162	32.0	NB UNII HDRPL32	ePA	9.276	10.551
5203	32.0	NB UNII HDRPL32	ePA	9.273	10.540
5245	32.0	NB UNII HDRPL32	ePA	9.275	10.538
5162	2.0	NB UNII HDT2	ePA	2.349	2.745
5203	2.0	NB UNII HDT2	ePA	2.348	2.745
5245	2.0	NB UNII HDT2	ePA	2.349	2.745
5162	4.0	NB UNII HDT4	ePA	2.359	2.809
5203	4.0	NB UNII HDT4	ePA	2.359	2.809
5245	4.0	NB UNII HDT4	ePA	2.359	2.809
5162	6.0	NB UNII HDT6	ePA	2.389	2.787
5203	6.0	NB UNII HDT6	ePA	2.389	2.787
5245	6.0	NB UNII HDT6	ePA	2.389	2.785

Table 7-4. Conducted BW Measurements Antenna 3b

FCC ID: BCGA3462	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Plot 7-27. 26dB BW Antenna 3b (NB UNII BDR, ePA- 5203MHz)



Plot 7-28. 26dB BW Antenna 3b (NB UNII LE1M, ePA- 5203MHz)

FCC ID: BCGA3462	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2509100082-19-R1.BCG	Test Dates: 9/15/2025 - 12/22/2025	EUT Type: Tablet Device	Page 37 of 439

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Plot 7-29. 26dB BW Antenna 3b (NB UNII LE2M, ePA- 5203MHz)

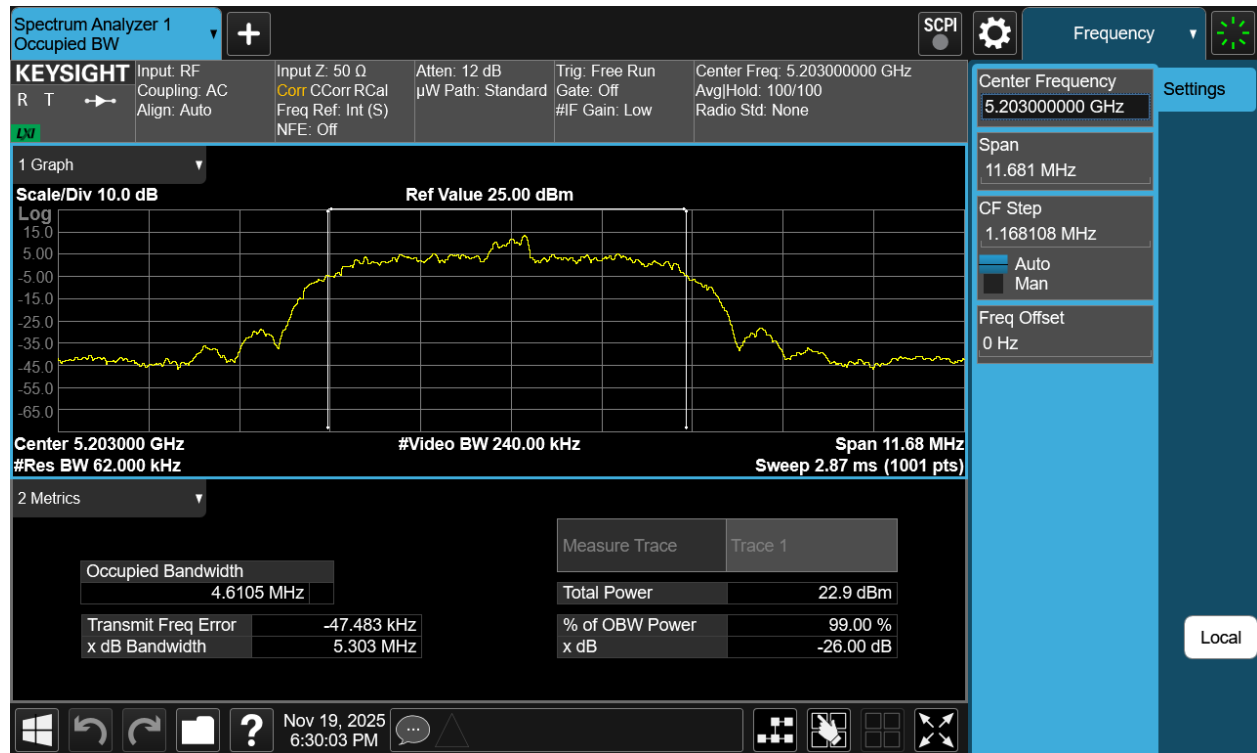


Plot 7-30. 26dB BW Antenna 3b (NB UNII HDR4, ePA- 5203MHz)

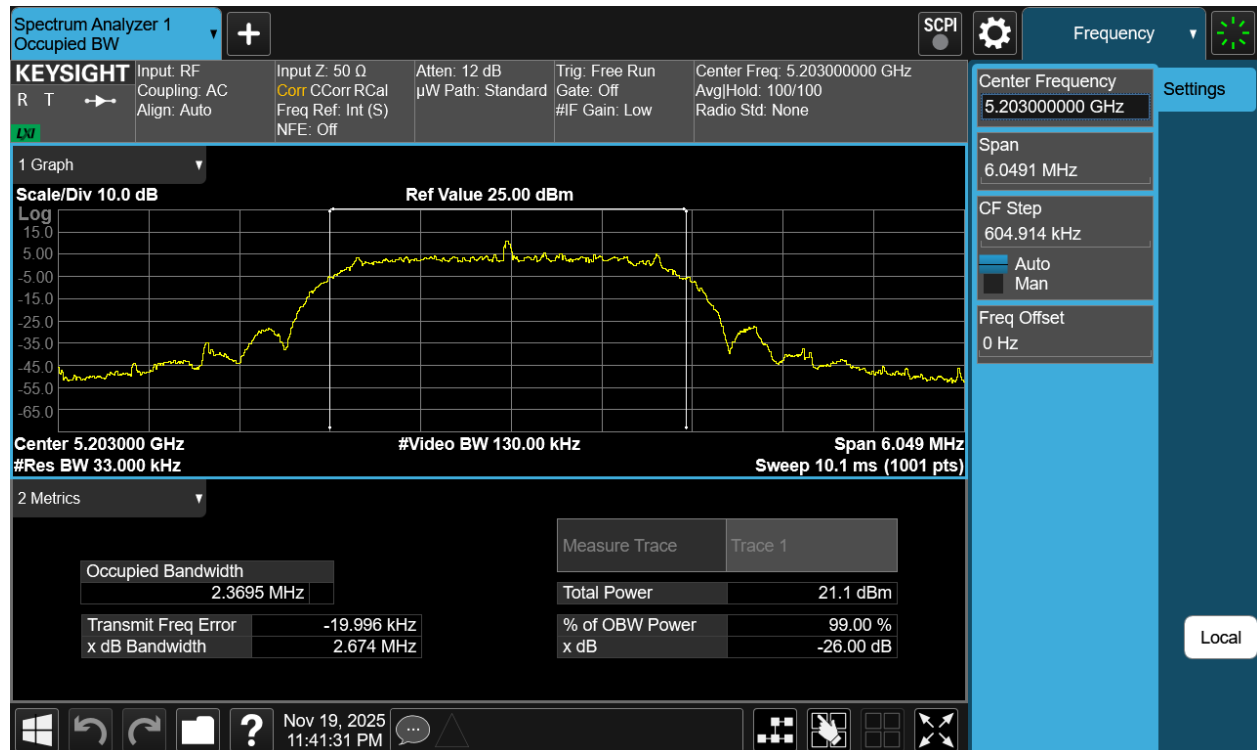
FCC ID: BCGA3462	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2509100082-19-R1.BCG	Test Dates: 9/15/2025 - 12/22/2025	EUT Type: Tablet Device	Page 38 of 439

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Plot 7-31. 26dB BW Antenna 3b (NB UNII HDR8, ePA– 5203MHz)

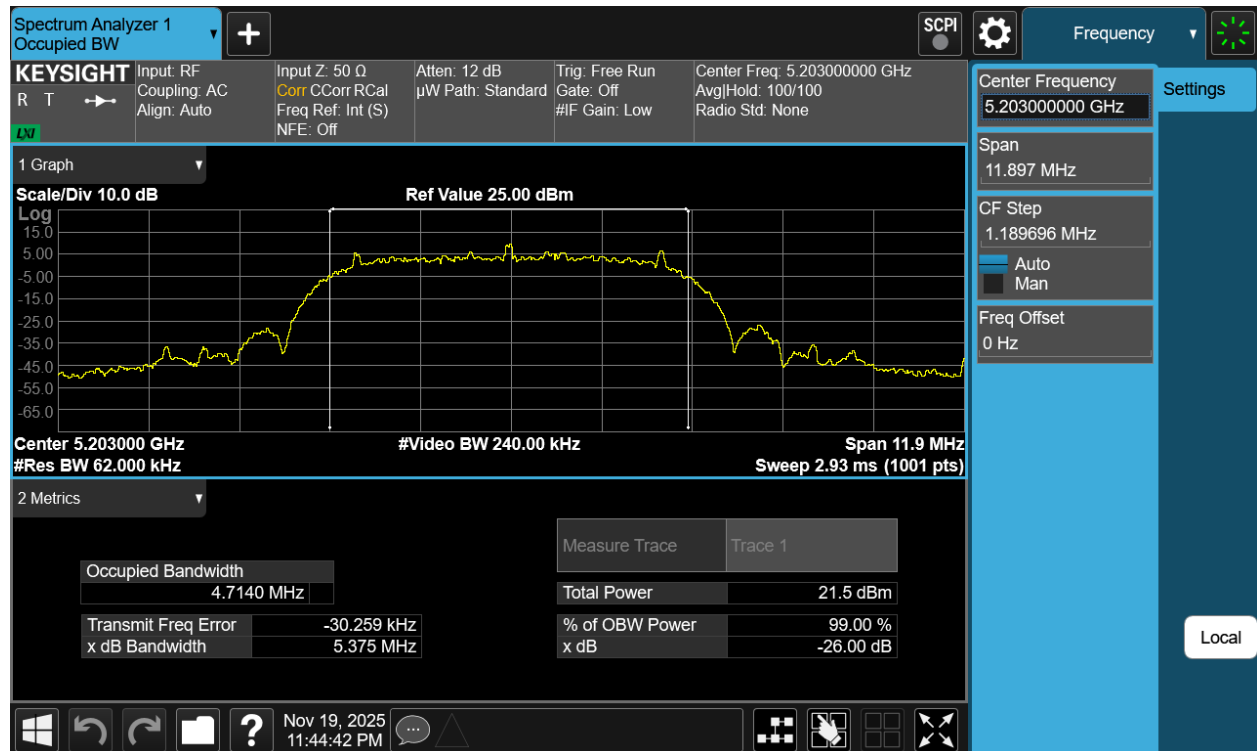


Plot 7-32. 26dB BW Antenna 3b (NB UNII HDRPS2, ePA– 5203MHz)

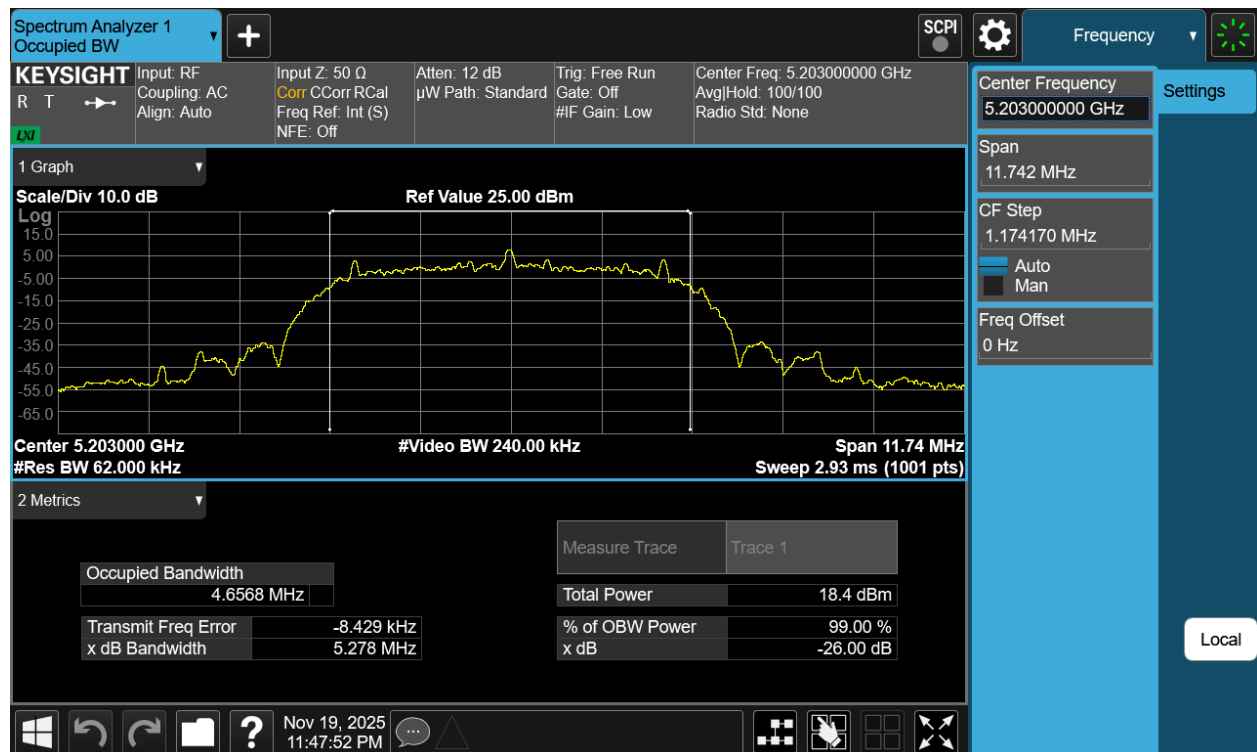
FCC ID: BCGA3462	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2509100082-19-R1.BCG	Test Dates: 9/15/2025 - 12/22/2025	EUT Type: Tablet Device	Page 39 of 439

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Plot 7-33. 26dB BW Antenna 3b (NB UNII XHDRPM6, ePA- 5203MHz)

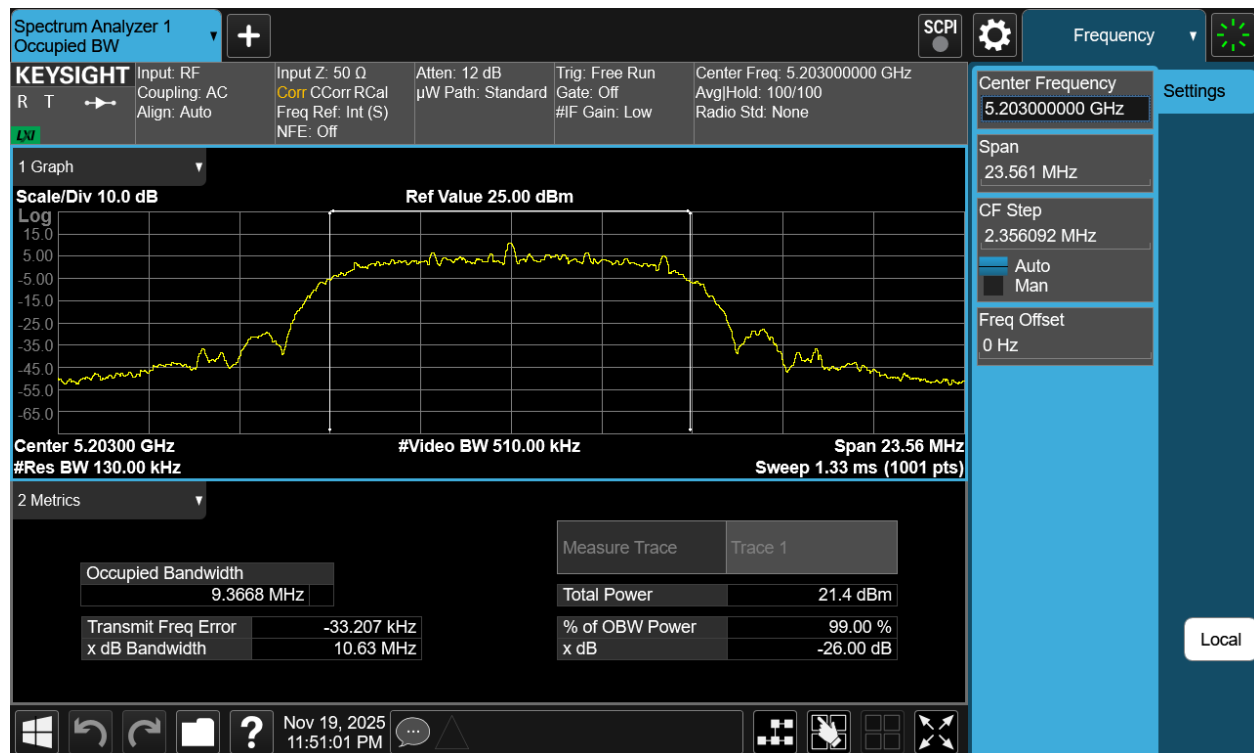


Plot 7-34. 26dB BW Antenna 3b (NB UNII HDRPM16, ePA- 5203MHz)

FCC ID: BCGA3462	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2509100082-19-R1.BCG	Test Dates: 9/15/2025 - 12/22/2025	EUT Type: Tablet Device	Page 40 of 439

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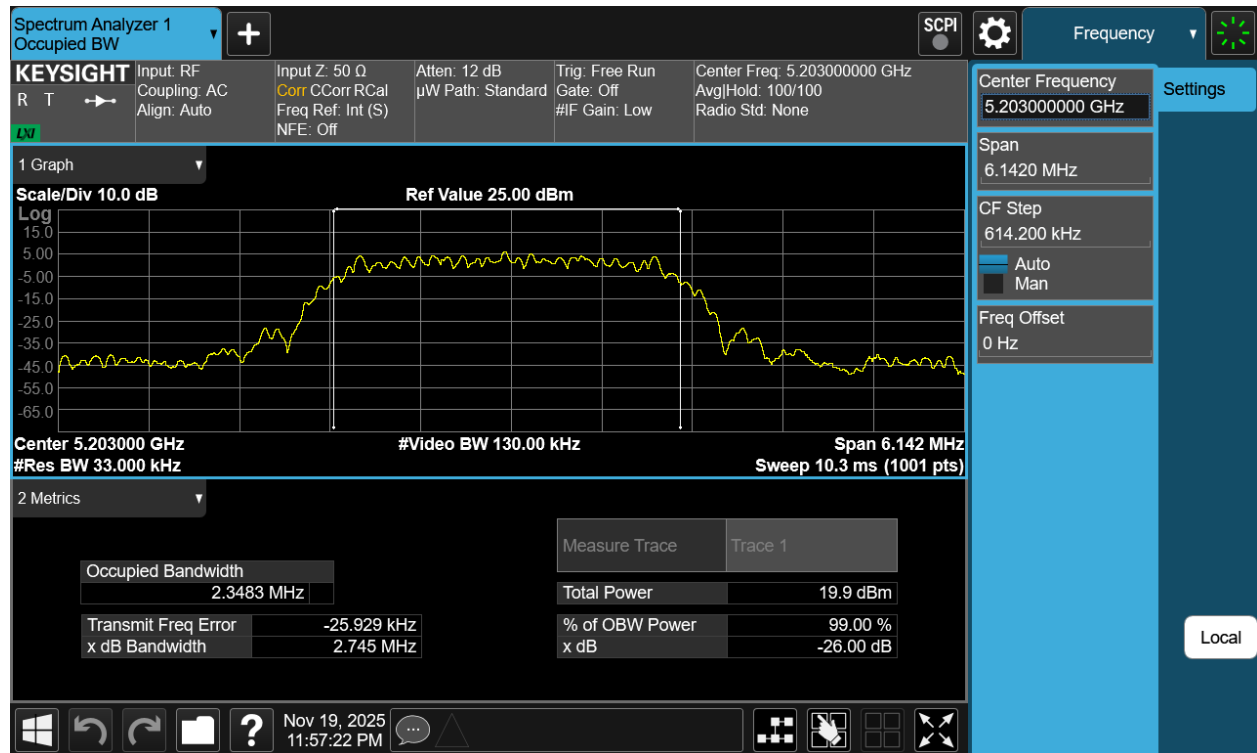
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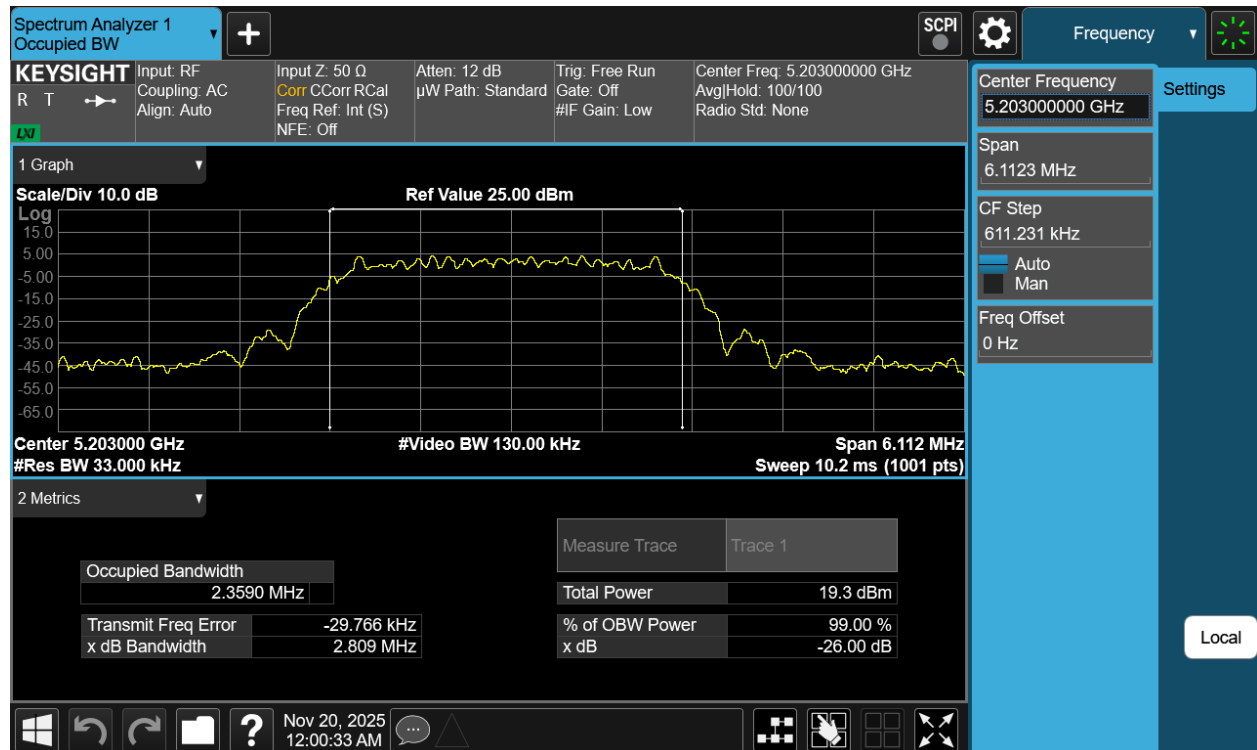
FCC ID: BCGA3462		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100082-19-R1.BCG	Test Dates: 9/15/2025 - 12/22/2025	EUT Type: Tablet Device	Page 41 of 439

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Plot 7-37. 26dB BW Antenna 3b (NB UNII HDT2, ePA- 5203MHz)



Plot 7-38. 26dB BW Antenna 3b (NB UNII HDT4, ePA- 5203MHz)

FCC ID: BCGA3462	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2509100082-19-R1.BCG	Test Dates: 9/15/2025 - 12/22/2025	EUT Type: Tablet Device	Page 42 of 439

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Plot 7-39. 26dB BW Antenna 3b (NB UNII HDT6, ePA- 5203MHz)

FCC ID: BCGA3462	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2509100082-19-R1.BCG	Test Dates: 9/15/2025 - 12/22/2025	EUT Type: Tablet Device	Page 43 of 439

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7.2.4 Antenna 3b 99% Bandwidth Measurements (U-NII-3)

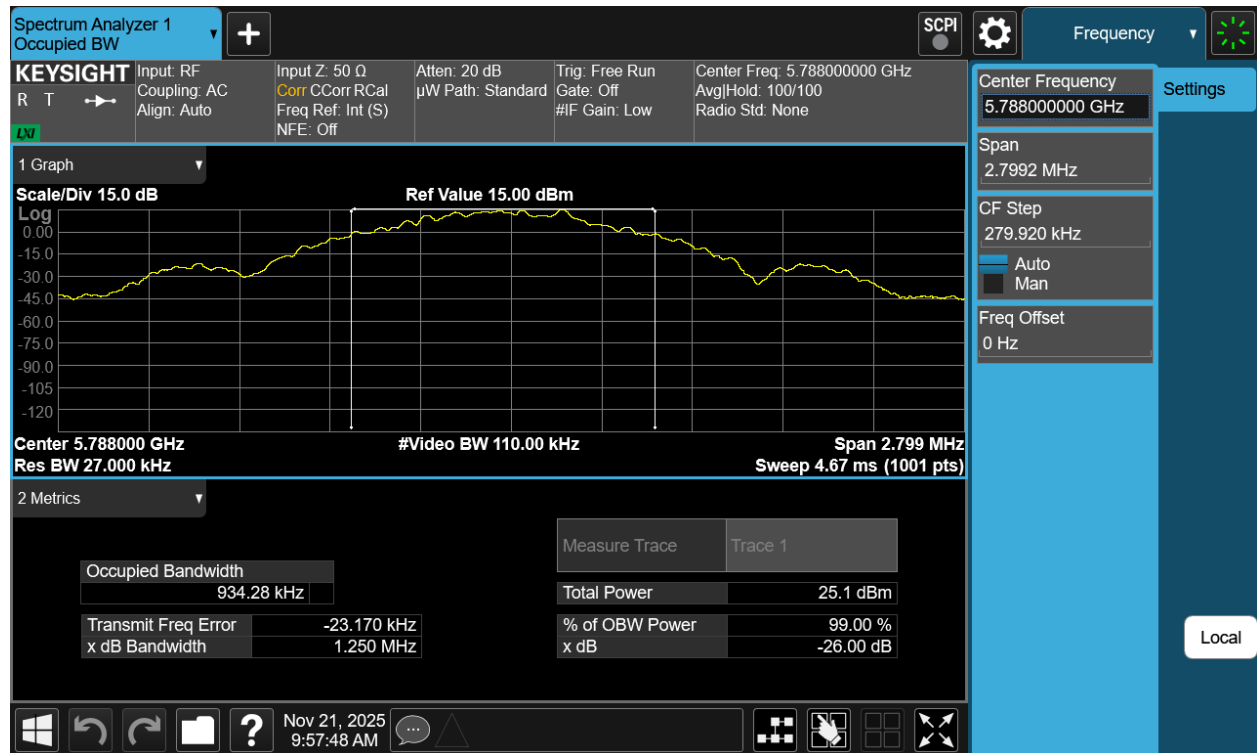
Frequency [MHz]	Data Rate [Mbps]	Mode	Power Scheme	Measured 99% Occupied Bandwidth [MHz]
5733	1.0	NB UNII BDR	ePA	0.935
5788	1.0	NB UNII BDR	ePA	0.934
5844	1.0	NB UNII BDR	ePA	0.935
5733	1.0	NB UNII LE1M	ePA	1.014
5788	1.0	NB UNII LE1M	ePA	1.014
5844	1.0	NB UNII LE1M	ePA	1.014
5733	2.0	NB UNII LE2M	ePA	2.036
5788	2.0	NB UNII LE2M	ePA	2.036
5844	2.0	NB UNII LE2M	ePA	2.036
5733	4.0	NB UNII HDR4	ePA	2.334
5788	4.0	NB UNII HDR4	ePA	2.328
5844	4.0	NB UNII HDR4	ePA	2.328
5733	8.0	NB UNII HDR8	ePA	4.652
5788	8.0	NB UNII HDR8	ePA	4.684
5844	8.0	NB UNII HDR8	ePA	4.669
5733	2.0	NB UNII HDRPS2	ePA	2.376
5788	2.0	NB UNII HDRPS2	ePA	2.369
5844	2.0	NB UNII HDRPS2	ePA	2.369
5733	6.0	NB UNII XHDRPM6	ePA	4.721
5788	6.0	NB UNII XHDRPM6	ePA	4.750
5844	6.0	NB UNII XHDRPM6	ePA	4.735
5733	16.0	NB UNII HDRPM16	ePA	4.729
5788	16.0	NB UNII HDRPM16	ePA	4.706
5844	16.0	NB UNII HDRPM16	ePA	4.704
5733	12.0	NB UNII HDRPL12	ePA	9.373
5788	12.0	NB UNII HDRPL12	ePA	9.422
5844	12.0	NB UNII HDRPL12	ePA	9.358
5733	32.0	NB UNII HDRPL32	ePA	9.306
5788	32.0	NB UNII HDRPL32	ePA	9.300
5844	32.0	NB UNII HDRPL32	ePA	9.293
5733	2.0	NB UNII HDT2	ePA	2.374
5788	2.0	NB UNII HDT2	ePA	2.374
5844	2.0	NB UNII HDT2	ePA	2.374
5733	4.0	NB UNII HDT4	ePA	2.383
5788	4.0	NB UNII HDT4	ePA	2.384
5844	4.0	NB UNII HDT4	ePA	2.384
5733	6.0	NB UNII HDT6	ePA	2.390
5788	6.0	NB UNII HDT6	ePA	2.390
5844	6.0	NB UNII HDT6	ePA	2.389

Table 7-5. Conducted BW Measurements Antenna 3b

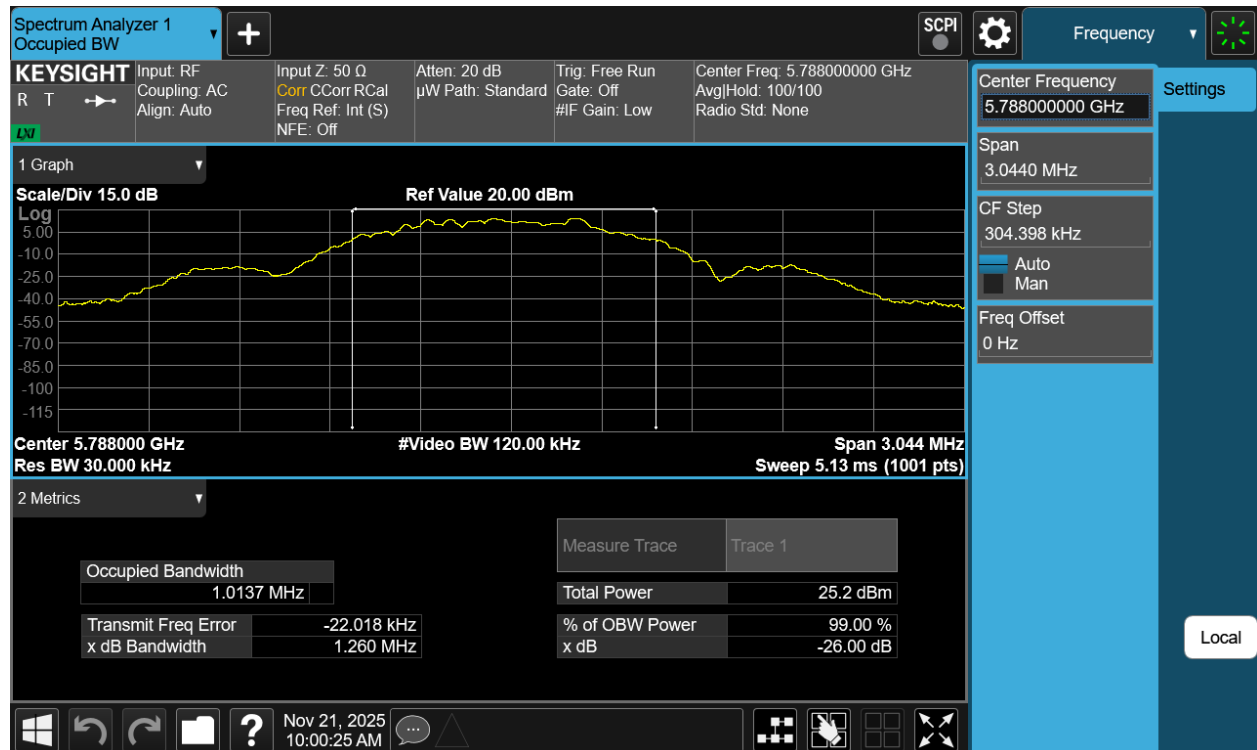
FCC ID: BCGA3462	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2509100082-19-R1.BCG	Test Dates: 9/15/2025 - 12/22/2025	EUT Type: Tablet Device	Page 44 of 439

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Plot 7-40. 99% OBW Antenna 3b (NB UNII BDR, ePA – 5788MHz)

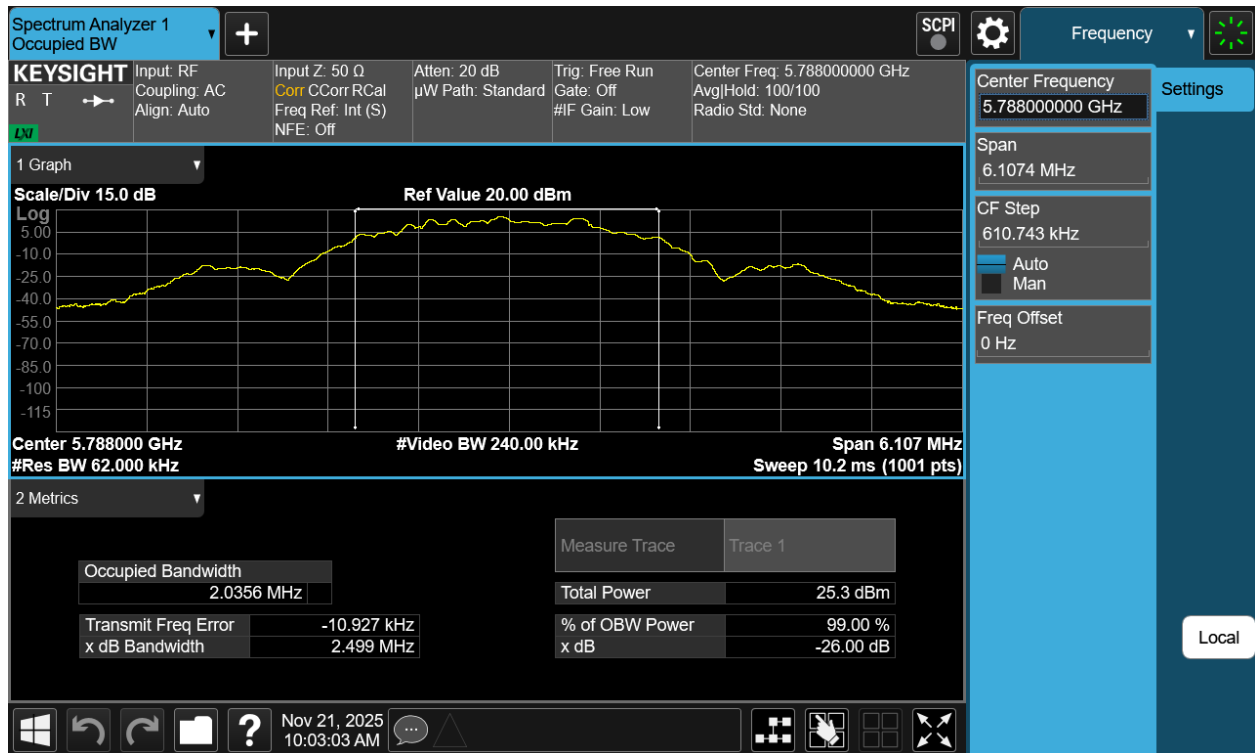


Plot 7-41. 99% OBW Antenna 3b (NB UNII LE1M, ePA– 5788MHz)

FCC ID: BCGA3462	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Plot 7-42. 99% OBW Antenna 3b (NB UNII LE2M, ePA– 5788MHz)



Plot 7-43. 99% OBW Antenna 3b (NB UNII HDR4, ePA – 5788MHz)

FCC ID: BCGA3462	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Plot 7-46. 99% OBW Antenna 3b (NB UNII XHDRPM6, ePA – 5788MHz)

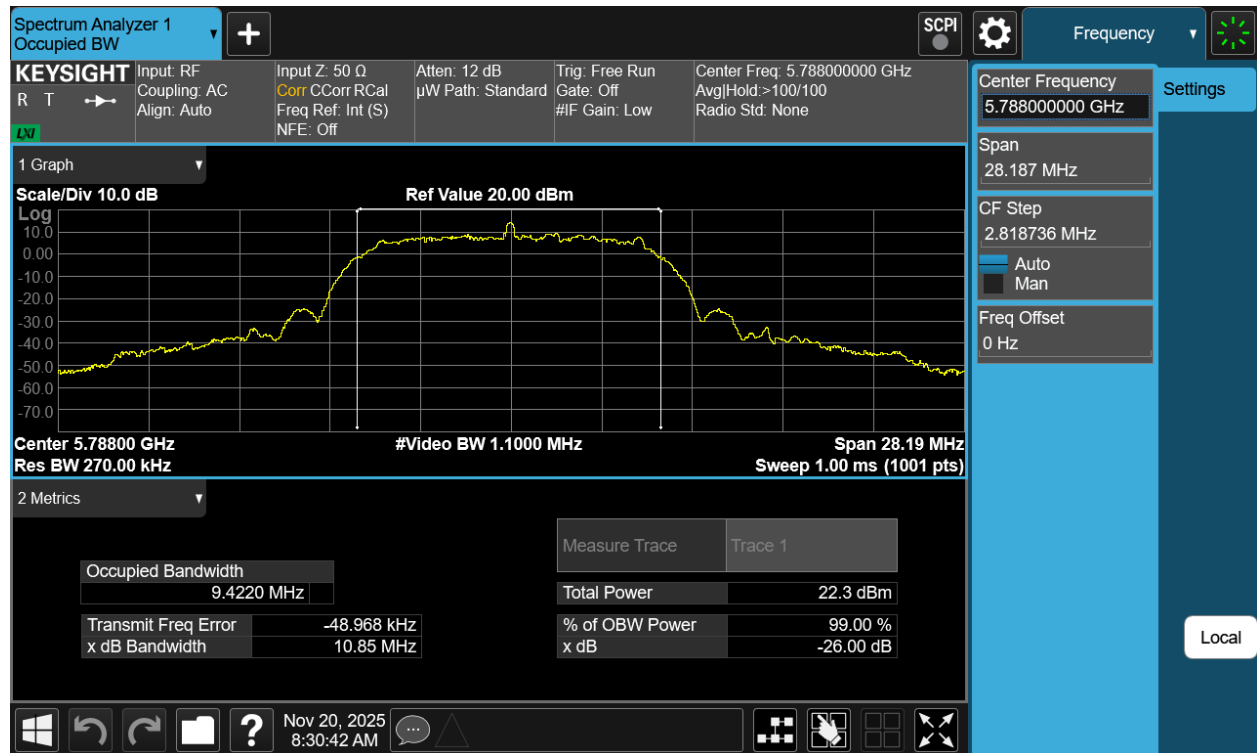


Plot 7-47. 99% OBW Antenna 3b (NB UNII HDRPM16, ePA – 5788MHz)

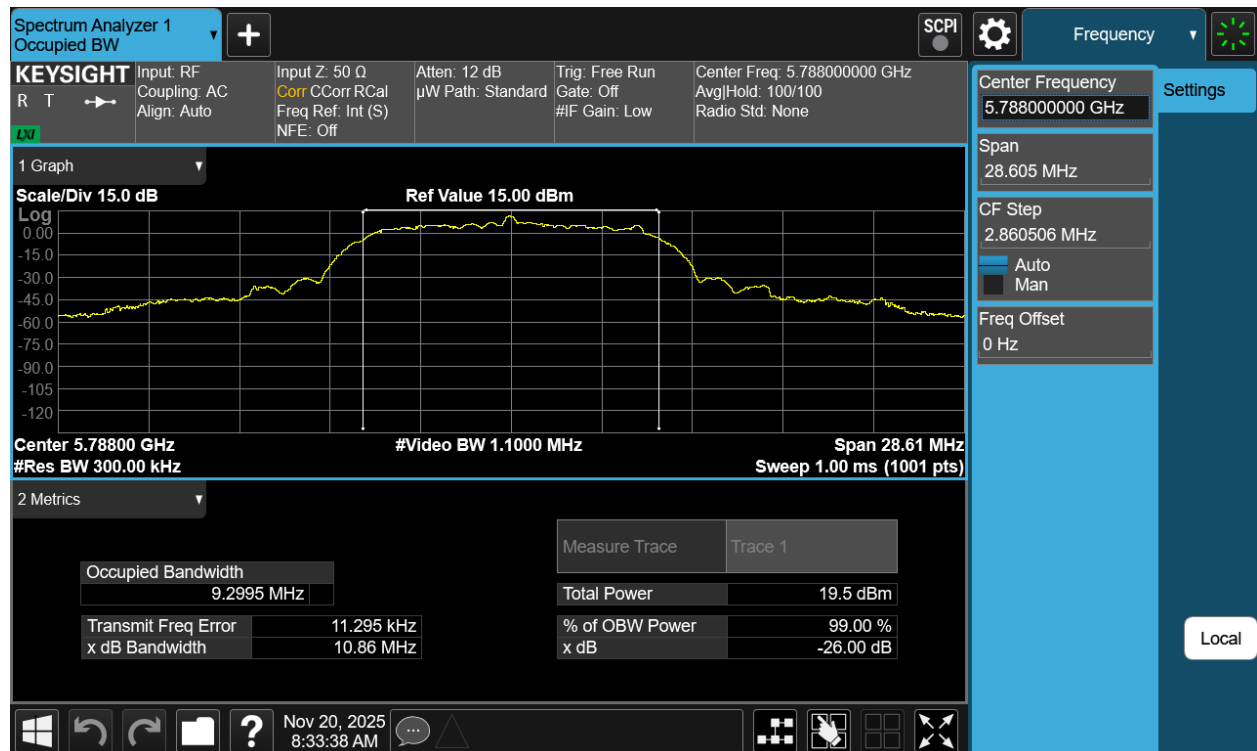
FCC ID: BCGA3462	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2509100082-19-R1.BCG	Test Dates: 9/15/2025 - 12/22/2025	EUT Type: Tablet Device	Page 48 of 439

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Plot 7-48. 99% OBW Antenna 3b (NB UNII HDRPL12, ePA – 5788MHz)

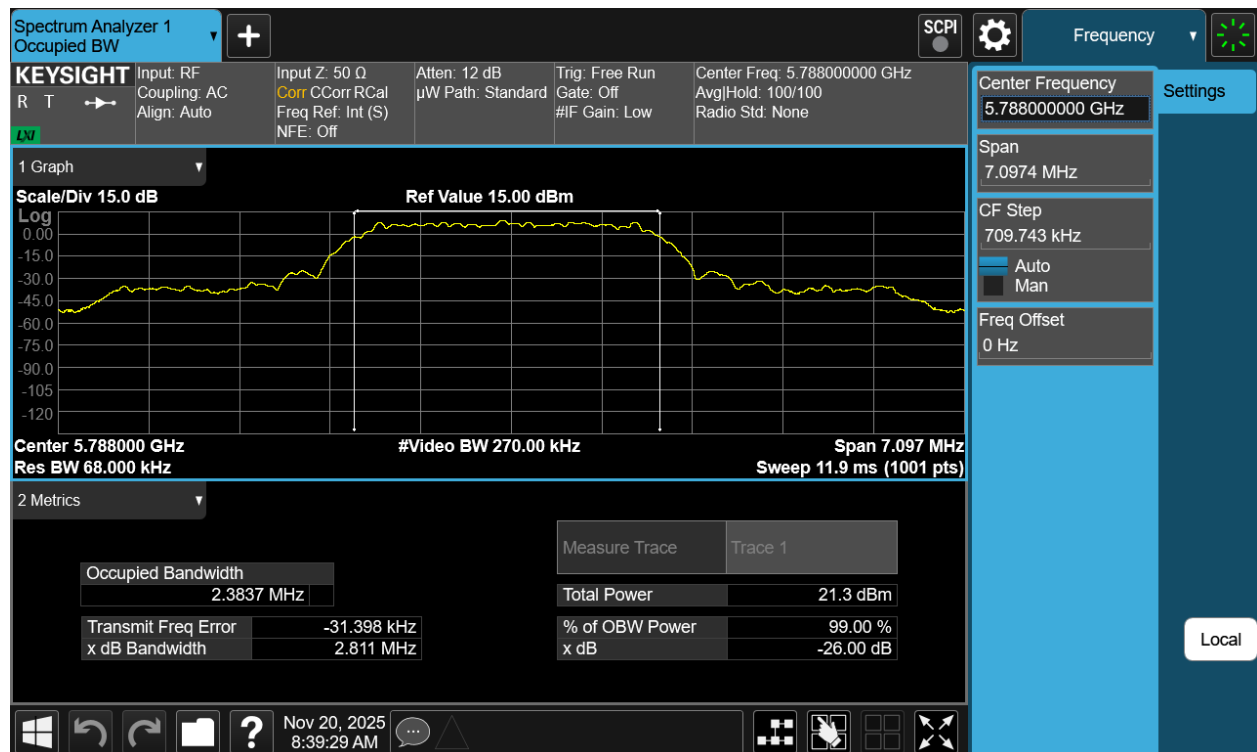


Plot 7-49. 99% OBW Antenna 3b (NB UNII HDRPL32, ePA – 5788MHz)

FCC ID: BCGA3462	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Plot 7-52. 99% OBW Antenna 3b (NB UNII HDT6, ePA- 5788MHz)

FCC ID: BCGA3462	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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7.2.5 Antenna 1b 26dB & 99% Bandwidth Measurements (U-NII-1)

Frequency [MHz]	Data Rate [Mbps]	Mode	Power Scheme	Measured 99% Occupied Bandwidth [MHz]	Measured 26dB Bandwidth [MHz]
5162	1.0	NB UNII BDR	ePA	0.930	1.249
5203	1.0	NB UNII BDR	ePA	0.930	1.248
5245	1.0	NB UNII BDR	ePA	0.930	1.248
5162	1.0	NB UNII LE1M	ePA	1.015	1.261
5203	1.0	NB UNII LE1M	ePA	1.015	1.261
5245	1.0	NB UNII LE1M	ePA	1.015	1.261
5162	2.0	NB UNII LE2M	ePA	2.031	2.511
5203	2.0	NB UNII LE2M	ePA	2.031	2.510
5245	2.0	NB UNII LE2M	ePA	2.030	2.510
5162	4.0	NB UNII HDR4	ePA	2.323	2.703
5203	4.0	NB UNII HDR4	ePA	2.324	2.709
5245	4.0	NB UNII HDR4	ePA	2.323	2.708
5162	8.0	NB UNII HDR8	ePA	4.612	5.304
5203	8.0	NB UNII HDR8	ePA	4.616	5.304
5245	8.0	NB UNII HDR8	ePA	4.610	5.306
5162	2.0	NB UNII HDRPS2	ePA	2.379	2.769
5203	2.0	NB UNII HDRPS2	ePA	2.368	2.681
5245	2.0	NB UNII HDRPS2	ePA	2.381	2.693
5162	6.0	NB UNII XHDRPM6	ePA	4.724	5.341
5203	6.0	NB UNII XHDRPM6	ePA	4.692	5.356
5245	6.0	NB UNII XHDRPM6	ePA	4.720	5.400
5162	16.0	NB UNII HDRPM16	ePA	4.673	5.335
5203	16.0	NB UNII HDRPM16	ePA	4.670	5.350
5245	16.0	NB UNII HDRPM16	ePA	4.669	5.284
5162	12.0	NB UNII HDRPL12	ePA	9.317	10.635
5203	12.0	NB UNII HDRPL12	ePA	9.361	10.663
5245	12.0	NB UNII HDRPL12	ePA	9.380	10.646
5162	32.0	NB UNII HDRPL32	ePA	9.277	10.534
5203	32.0	NB UNII HDRPL32	ePA	9.297	10.690
5245	32.0	NB UNII HDRPL32	ePA	9.272	10.541
5162	2.0	NB UNII HDT2	ePA	2.349	2.745
5203	2.0	NB UNII HDT2	ePA	2.348	2.744
5245	2.0	NB UNII HDT2	ePA	2.349	2.744
5162	4.0	NB UNII HDT4	ePA	2.359	2.806
5203	4.0	NB UNII HDT4	ePA	2.358	2.805
5245	4.0	NB UNII HDT4	ePA	2.359	2.808
5162	6.0	NB UNII HDT6	ePA	2.391	2.787
5203	6.0	NB UNII HDT6	ePA	2.390	2.787
5245	6.0	NB UNII HDT6	ePA	2.390	2.786

Table 7-6. Conducted BW Measurements Antenna 1b

FCC ID: BCGA3462	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Plot 7-53. 26dB BW Antenna 1b (NB UNII BDR, ePA- 5203MHz)



Plot 7-54. 26dB BW Antenna 1b (NB UNII LE1M, ePA- 5203MHz)

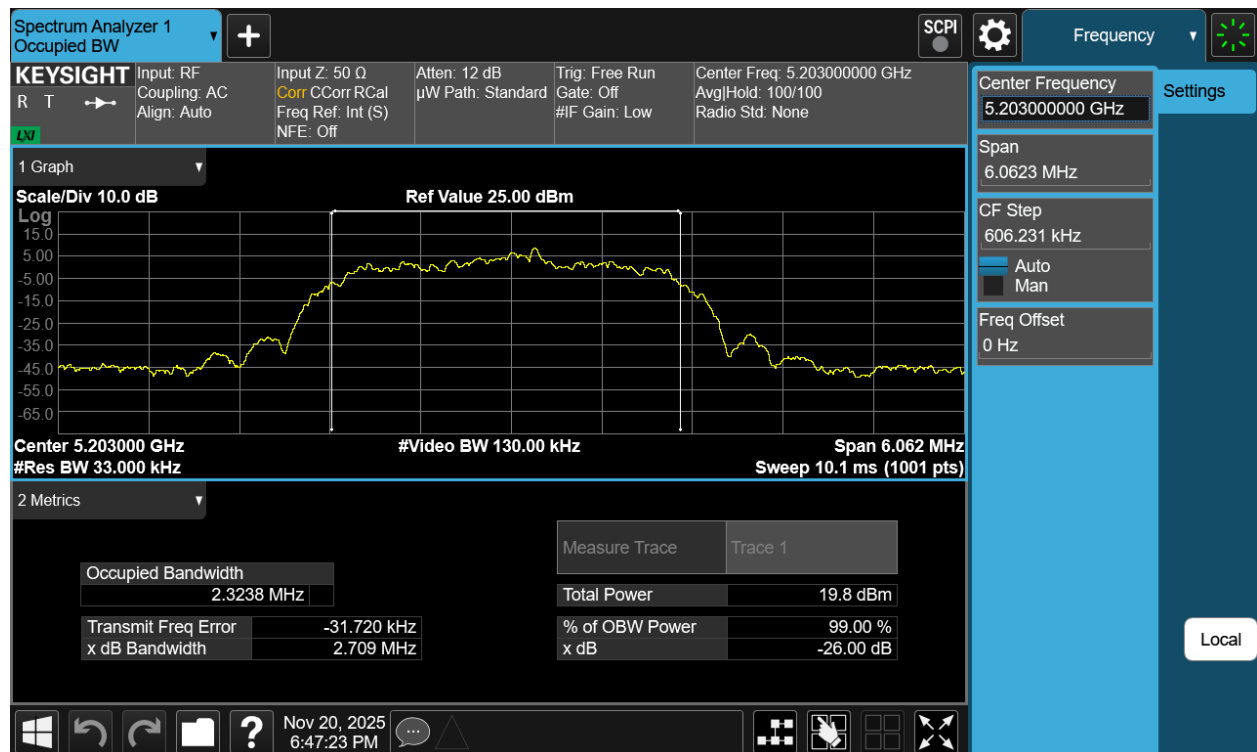
FCC ID: BCGA3462	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2509100082-19-R1.BCG	Test Dates: 9/15/2025 - 12/22/2025	EUT Type: Tablet Device	Page 53 of 439

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Plot 7-55. 26dB BW Antenna 1b (NB UNII LE2M, ePA- 5203MHz)

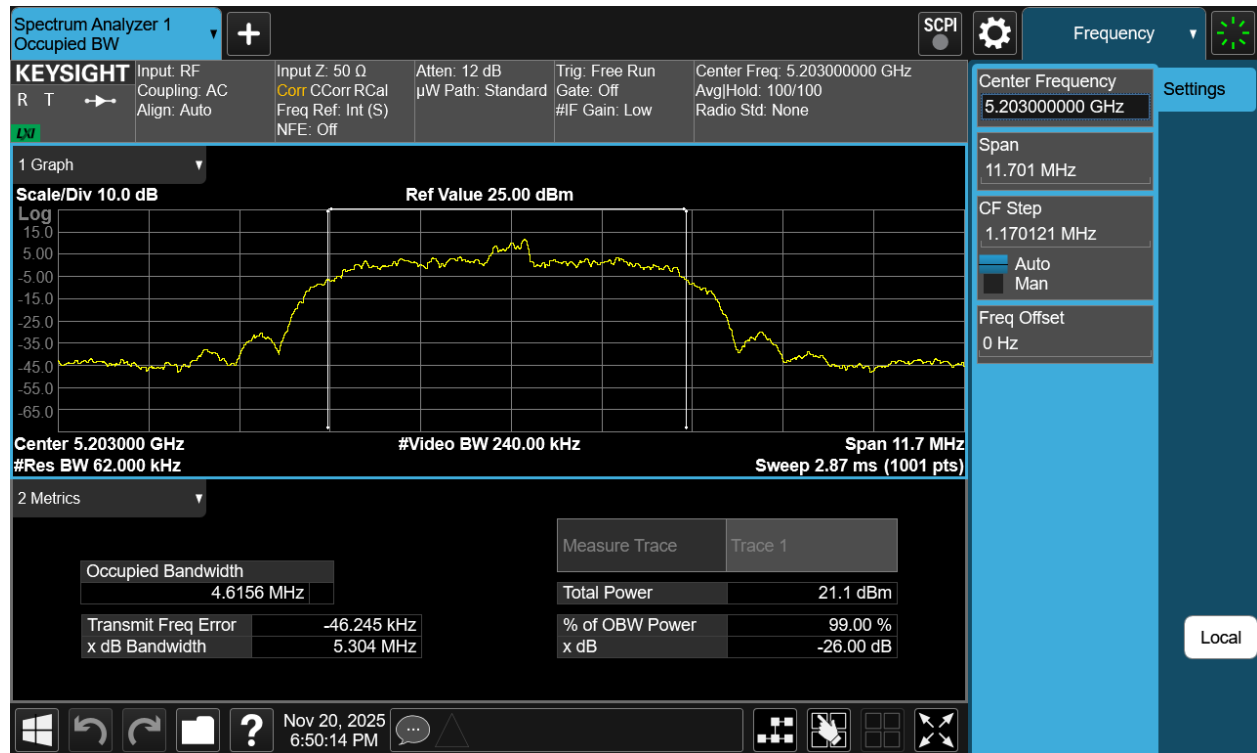


Plot 7-56. 26dB BW Antenna 1b (NB UNII HDR4, ePA- 5203MHz)

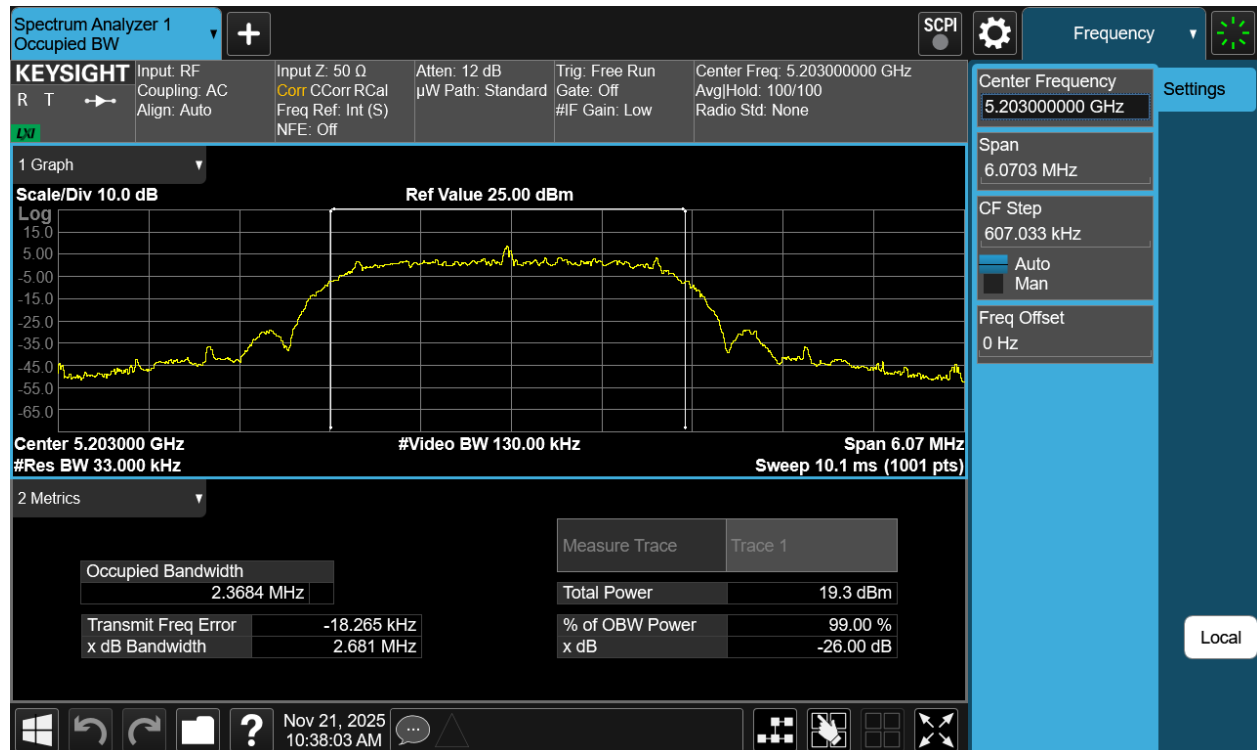
FCC ID: BCGA3462	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2509100082-19-R1.BCG	Test Dates: 9/15/2025 - 12/22/2025	EUT Type: Tablet Device	Page 54 of 439

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Plot 7-57. 26dB BW Antenna 1b (NB UNII HDR8, ePA– 5203MHz)



Plot 7-58. 26dB BW Antenna 1b (NB UNII HDRPS2, ePA– 5203MHz)

FCC ID: BCGA3462	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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