



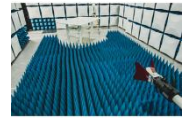
ELEMENT MATERIALS TECHNOLOGY

(formerly PCTEST)

18855 Adams Court, Morgan Hill, CA 95037 USA

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<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:

05/12/2025 - 08/13/2025

Test Report Issue Date:

8/29/2025

Test Site/Location:

Element Materials Technology, Morgan Hill, CA, USA

Test Report Serial No.:

1C2504170038-10-R3.BCG

FCC ID:

BCGA3357

APPLICANT:

Apple Inc.

Application Type:

Certification

Model:

A3357

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

This revised Test Report (S/N: 1C2504170038-10-R3.BCG) supersedes and replaces the previously issued test report on the same subject device for the same type of testing as indicated. Please discard or destroy the previously issued test report(s) and dispose accordingly.

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

RJ Ortanez

Executive Vice President



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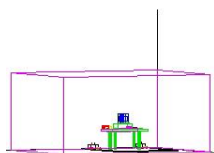
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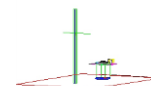
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MEASUREMENT REPORT



UNII Band	Tx Frequency [MHz]	Mode	Power Scheme	SISO						TxBF Primary		TxBF Diversity	
				Antenna WF5B		Antenna WF8		Antenna WF7		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	9.683	9.86	9.441	9.75	9.954	9.98	9.931	9.97	9.550	9.80
			iPA	3.936	5.95	3.846	5.85	3.890	5.90	7.447	8.72	7.482	8.74
		NB UNII LE	ePA	11.641	10.66	12.359	10.92	11.668	10.67	12.445	10.95	12.274	10.89
			iPA	3.926	5.94	3.926	5.94	3.945	5.96	7.798	8.92	7.586	8.80
		NB UNII HDR	ePA	23.878	13.78	27.606	14.41	25.119	14.00	49.317	16.93	50.119	17.00
			iPA	1.959	2.92	1.972	2.95	1.995	3.00	3.873	5.88	3.945	5.96
		NB UNII HDT	ePA	17.783	12.50	17.742	12.49	17.620	12.46	17.783	12.50	17.701	12.48
			iPA	1.995	3.00	1.888	2.76	1.892	2.77	3.882	5.89	3.908	5.92
3	5733 - 5844	NB UNII BDR	ePA	85.310	19.31	85.704	19.33	84.333	19.26	167.109	22.23	165.959	22.20
			iPA	3.882	5.89	3.540	5.49	3.420	5.34	7.295	8.63	7.063	8.49
		NB UNII LE	ePA	88.716	19.48	86.696	19.38	88.512	19.47	169.434	22.29	165.196	22.18
			iPA	3.864	5.87	3.516	5.46	3.548	5.50	7.413	8.70	7.015	8.46
		NB UNII HDR	ePA	27.990	14.47	28.054	14.48	28.119	14.49	54.954	17.40	54.576	17.37
			iPA	1.977	2.96	1.774	2.49	1.945	2.89	3.639	5.61	3.707	5.69
		NB UNII HDT	ePA	27.797	14.44	27.925	14.46	26.915	14.30	54.576	17.37	53.333	17.27
			iPA	1.936	2.87	1.742	2.41	1.936	2.87	3.733	5.72	3.733	5.72

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.

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: BCGA3357**. 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.: G4574YVFP6, QTV7QG9FTQ, H9HHG5000JS0000SDF, H9HHG5000M80000SDF

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.

Band 1	Band 3
Frequency (MHz)	Frequency (MHz)
5162	5733
:	:
5204	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. 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:

HDR/HDT Mode		Antenna WF5B		Antenna WF8		Antenna WF7		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	76.46	1.17	76.26	1.18	76.51	1.16	76.30	1.18	76.51	1.16
	iPA	76.46	1.17	76.26	1.18	76.51	1.16	76.30	1.18	76.51	1.16
LE1M	ePA	84.89	0.71	84.87	0.71	84.81	0.72	84.84	0.71	84.75	0.72
	iPA	84.89	0.71	84.87	0.71	84.81	0.72	84.84	0.71	84.75	0.72
LE2M	ePA	56.18	2.50	56.69	2.47	56.50	2.48	56.79	2.46	56.74	2.46
	iPA	56.18	2.50	56.69	2.47	56.50	2.48	56.79	2.46	56.74	2.46
HDR4	ePA	77.50	1.11	77.50	1.11	77.55	1.10	77.55	1.10	77.81	1.09
	iPA	77.50	1.11	77.50	1.11	77.55	1.10	77.55	1.10	77.81	1.09
HDR8	ePA	77.92	1.08	77.81	1.09	77.55	1.10	77.76	1.09	77.76	1.09
	iPA	77.92	1.08	77.81	1.09	77.55	1.10	77.76	1.09	77.76	1.09
HDRPS2	ePA	92.00	0.36	91.99	0.36	92.44	0.34	91.98	0.36	91.98	0.36
	iPA	92.00	0.36	91.99	0.36	92.44	0.34	91.98	0.36	91.98	0.36
XHDRPS2	ePA	98.56	0.06	98.57	0.06	98.40	0.07	98.40	0.07	98.56	0.06
	iPA	98.56	0.06	98.57	0.06	98.40	0.07	98.40	0.07	98.56	0.06
XHDRPM6	ePA	86.09	0.65	86.09	0.65	86.64	0.62	86.11	0.65	87.38	0.59
	iPA	86.09	0.65	86.09	0.65	86.64	0.62	86.11	0.65	87.38	0.59
XHDRPM8	ePA	92.05	0.36	92.05	0.36	92.18	0.35	92.31	0.35	92.45	0.34
	iPA	92.05	0.36	92.05	0.36	92.18	0.35	92.31	0.35	92.45	0.34
HDRPM16	ePA	89.79	0.47	89.38	0.49	88.98	0.51	89.61	0.48	89.61	0.48
	iPA	89.79	0.47	89.38	0.49	88.98	0.51	89.61	0.48	89.61	0.48
XHDRPM16	ePA	87.78	0.57	87.92	0.56	87.73	0.57	87.50	0.58	87.29	0.59
	iPA	87.78	0.57	87.92	0.56	87.73	0.57	87.50	0.58	87.29	0.59
HDRPL12	ePA	93.07	0.31	89.90	0.46	89.90	0.46	89.97	0.46	90.11	0.45
	iPA	93.07	0.31	89.90	0.46	89.90	0.46	89.97	0.46	90.11	0.45
XHDRPL16	ePA	96.07	0.17	95.84	0.18	96.04	0.18	94.94	0.23	95.21	0.21
	iPA	96.07	0.17	95.84	0.18	96.04	0.18	94.94	0.23	95.21	0.21
HDRPL32	ePA	88.27	0.54	87.85	0.56	88.27	0.54	88.68	0.52	88.10	0.55
	iPA	88.27	0.54	87.85	0.56	88.27	0.54	88.68	0.52	88.10	0.55
XHDRPL32	ePA	85.59	0.68	85.80	0.67	85.73	0.67	85.73	0.67	85.31	0.69
	iPA	85.59	0.68	85.80	0.67	85.73	0.67	85.73	0.67	85.31	0.69
HDT2	ePA	96.18	0.17	96.42	0.16	96.16	0.17	96.18	0.17	96.01	0.18
	iPA	96.18	0.17	96.42	0.16	96.16	0.17	96.18	0.17	96.01	0.18
HDT4	ePA	93.36	0.30	93.28	0.30	93.48	0.29	93.29	0.30	93.29	0.30
	iPA	93.36	0.30	93.28	0.30	93.48	0.29	93.29	0.30	93.29	0.30
HDT6	ePA	90.62	0.43	90.42	0.44	90.42	0.44	90.35	0.44	90.42	0.44
	iPA	90.62	0.43	90.42	0.44	90.42	0.44	90.35	0.44	90.42	0.44
HDT8	ePA	88.76	0.52	89.00	0.51	89.00	0.51	88.78	0.52	88.66	0.52
	iPA	88.76	0.52	89.00	0.51	89.00	0.51	88.78	0.52	88.66	0.52

Table 2-3. Measured Duty Cycles

FCC ID: BCGA3357	 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 WF7	Config 1	✓	✗	✗	✗	✓	✗
Ant WF7	Config 2	✓	✗	✗	✗	✗	✓
Ant WF7	Config 3	✗	✓	✗	✗	✓	✗
Ant WF7	Config 4	✗	✓	✗	✗	✗	✓
Ant WF7	Config 5	✗	✗	✓	✓	✗	✗
Ant WF7	Config 6	✗	✗	✓	✗	✓	✗
Ant WF7	Config 7	✗	✗	✓	✗	✗	✓
Ant WF8	Config 8	✓	✗	✗	✗	✓	✗
Ant WF8	Config 9	✓	✗	✗	✗	✗	✓
Ant WF8	Config 10	✗	✓	✗	✗	✓	✗
Ant WF8	Config 11	✗	✓	✗	✗	✗	✓
Ant WF8	Config 12	✗	✗	✓	✓	✗	✗
Ant WF8	Config 13	✗	✗	✓	✗	✓	✗
Ant WF8	Config 14	✗	✗	✓	✗	✗	✓

Table 2-4. Simultaneous Transmission Configurations

✓ = Support; ✗ = Not Support

TxBF Primary = Antenna WF5B + Antenna WF8

TxBF Diversity = Antenna WF7 + Antenna WF8

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 OFDM 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 WF5B	Antenna WF8	Antenna WF7
5162 - 5245	0.3	1.1	-1.5
5733 – 5844	1.1	-1.4	1.6

Table 2-5. Highest Antenna Gain

2.4 Test Support Equipment

1	Apple MacBook Pro w/AC/DC Adapter	Model: A2141 Model: A2166	S/N: C02H604EQ05D S/N: C4H042705ZNPM0WA6
2	Apple USB-C Cable	Model: Spartan	S/N: GXK1336018XKTR024
3	USB-C Cable w/ AC Adapter	Model: A2795 Model: A2305	S/N: DWH80115BK826GV19 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 and KDB 789033 D02 v02r01. ANSI C63.10-2020 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 23A256 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) 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	2.07
AC Line Conducted Disturbance	1.91
Radiated Disturbance (<30MHz)	4.12
Radiated Disturbance (30MHz - 1GHz)	4.85
Radiated Disturbance (1 - 18GHz)	5.08
Radiated Disturbance (>18GHz)	5.22

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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 Antenna (1-18 GHz)	9/25/2024	Annual	9/25/2025	00240109
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	9/5/2024	Annual	9/5/2025	MY61320121
Keysight Technology	N9030A	PXA Signal Analyzer	10/16/2024	Annual	10/16/2025	MY49430494
Rohde & Schwarz	TS-PR18	Pre-Amplifier (1GHz - 18GHz)	8/14/2024	Annual	8/14/2025	101648
Rohde & Schwarz	FSW43	Spectrum Analyzer 2Hz to 43GHz	11/21/2024	Annual	11/21/2025	104093
Rohde & Schwarz	ESW44	EMI Test Receiver	10/17/2024	Annual	10/17/2025	101668
Rohde & Schwarz	TS-PR8	Pre-Amplifier (30MHz - 8GHz)	9/20/2024	Annual	9/20/2025	102327
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)	9/18/2024	Annual	9/18/2025	00358

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: BCGA3357

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 1.4.0.
- 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 3.4.2.

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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 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 – 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 WF5B 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	1.248
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	1.016	1.262
5203	1.0	NB UNII LE1M	ePA	1.016	1.262
5245	1.0	NB UNII LE1M	ePA	1.016	1.262
5162	2.0	NB UNII LE2M	ePA	2.032	2.511
5203	2.0	NB UNII LE2M	ePA	2.031	2.512
5245	2.0	NB UNII LE2M	ePA	2.031	2.514
5162	4.0	NB UNII HDR4	ePA	2.325	2.715
5203	4.0	NB UNII HDR4	ePA	2.325	2.714
5245	4.0	NB UNII HDR4	ePA	2.326	2.718
5162	8.0	NB UNII HDR8	ePA	4.621	5.309
5203	8.0	NB UNII HDR8	ePA	4.616	5.305
5245	8.0	NB UNII HDR8	ePA	4.606	5.295
5162	2.0	NB UNII HDRPS2	ePA	2.379	2.685
5203	2.0	NB UNII HDRPS2	ePA	2.380	2.685
5245	2.0	NB UNII HDRPS2	ePA	2.364	2.679
5162	6.0	NB UNII XHDRPM6	ePA	4.721	5.368
5203	6.0	NB UNII XHDRPM6	ePA	4.717	5.358
5245	6.0	NB UNII XHDRPM6	ePA	4.719	5.353
5162	16.0	NB UNII HDRPM16	ePA	4.665	5.282
5203	16.0	NB UNII HDRPM16	ePA	4.668	5.292
5245	16.0	NB UNII HDRPM16	ePA	4.676	5.288
5162	12.0	NB UNII HDRPL12	ePA	9.373	10.651
5203	12.0	NB UNII HDRPL12	ePA	9.335	10.646
5245	12.0	NB UNII HDRPL12	ePA	9.362	10.638
5162	32.0	NB UNII HDRPL32	ePA	9.271	10.546
5203	32.0	NB UNII HDRPL32	ePA	9.275	10.544
5245	32.0	NB UNII HDRPL32	ePA	9.284	10.549
5162	2.0	NB UNII HDT2	ePA	2.350	2.746
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	2.360	2.814
5203	4.0	NB UNII HDT4	ePA	2.360	2.814
5245	4.0	NB UNII HDT4	ePA	2.360	2.814
5162	6.0	NB UNII HDT6	ePA	2.389	2.788
5203	6.0	NB UNII HDT6	ePA	2.389	2.787
5245	6.0	NB UNII HDT6	ePA	2.388	2.790

Table 7-2. Conducted BW Measurements Antenna WF5B

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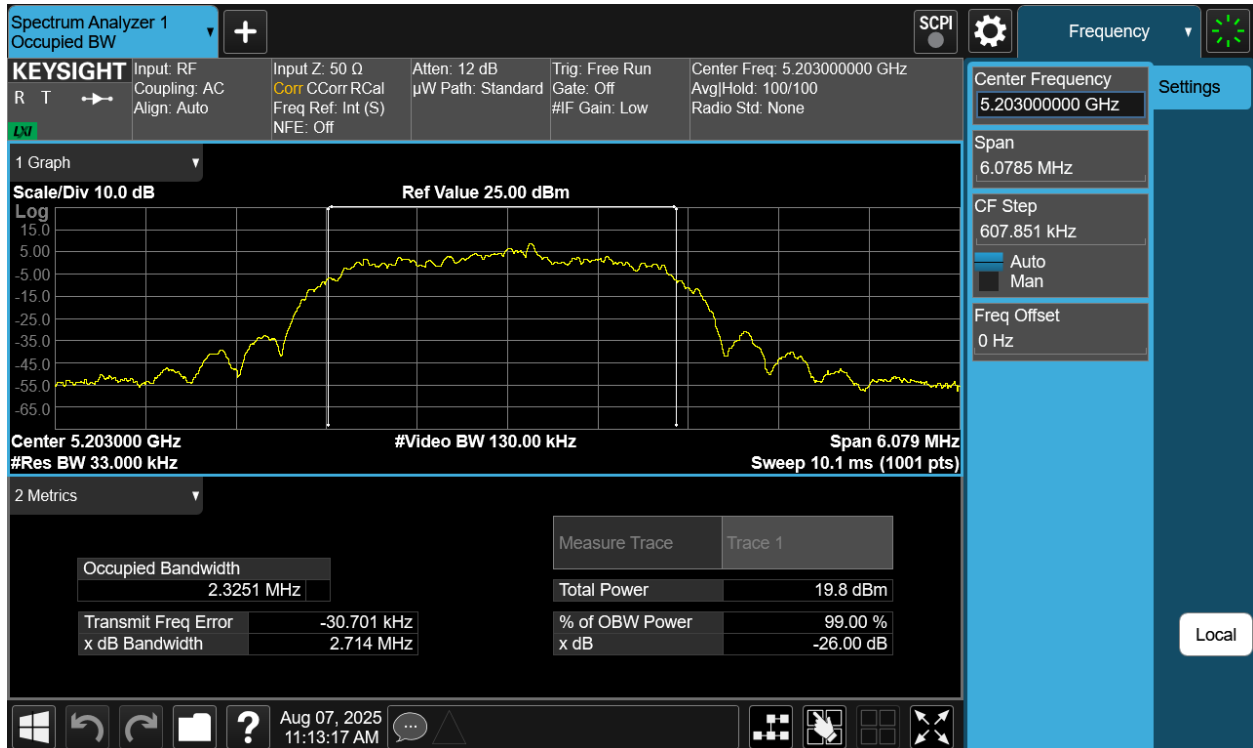
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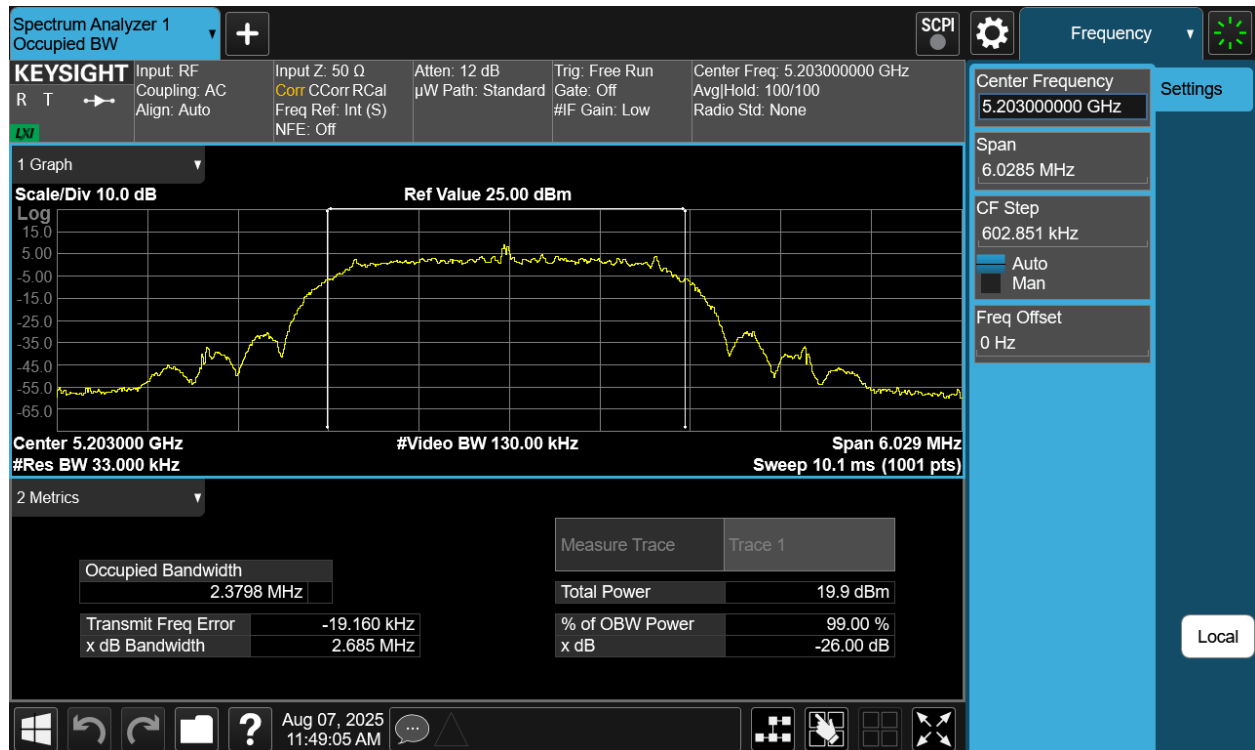
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Plot 7-5. 26dB BW & 99% OBW Antenna WF5B (NB UNII HDR8, ePA- 5203MHz)

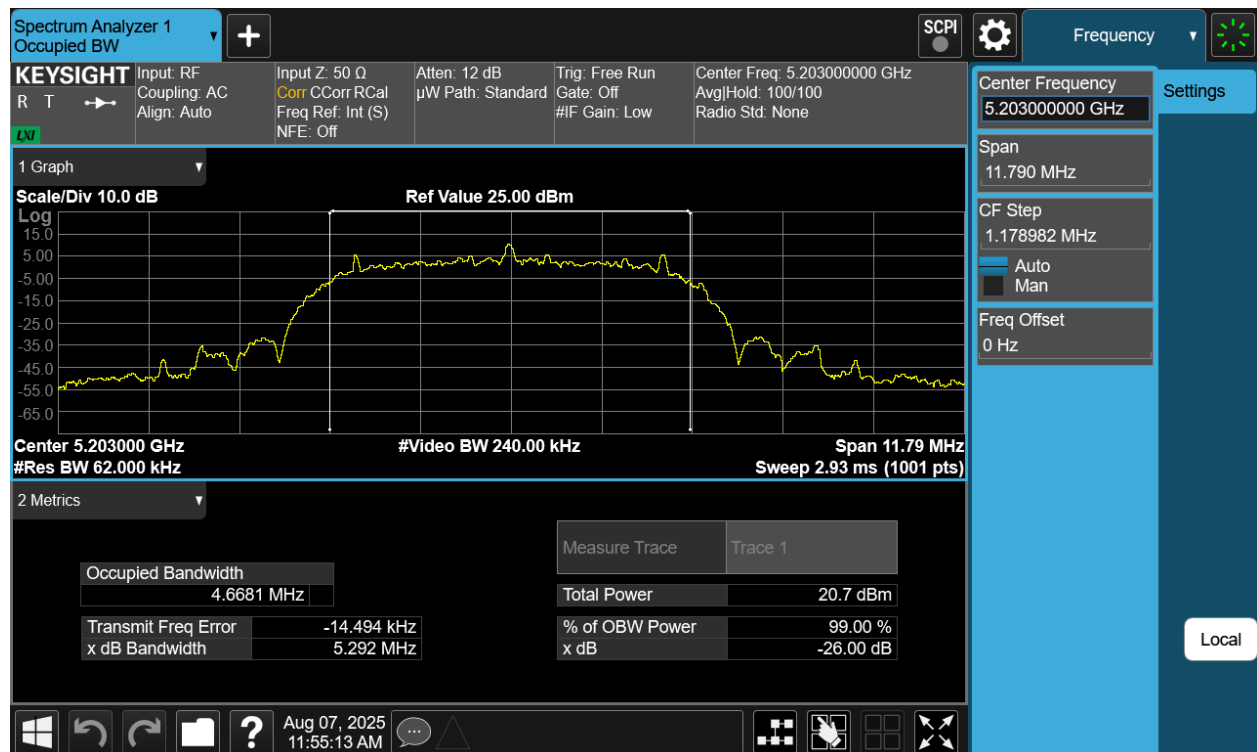


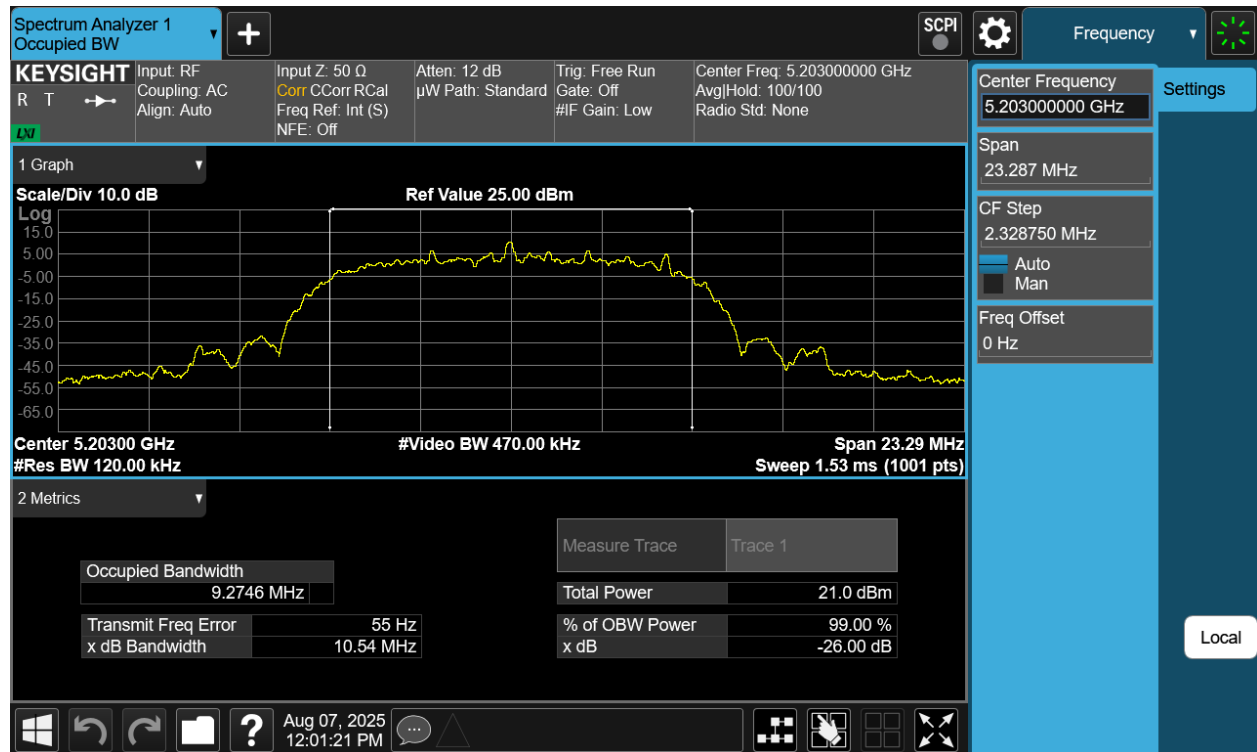
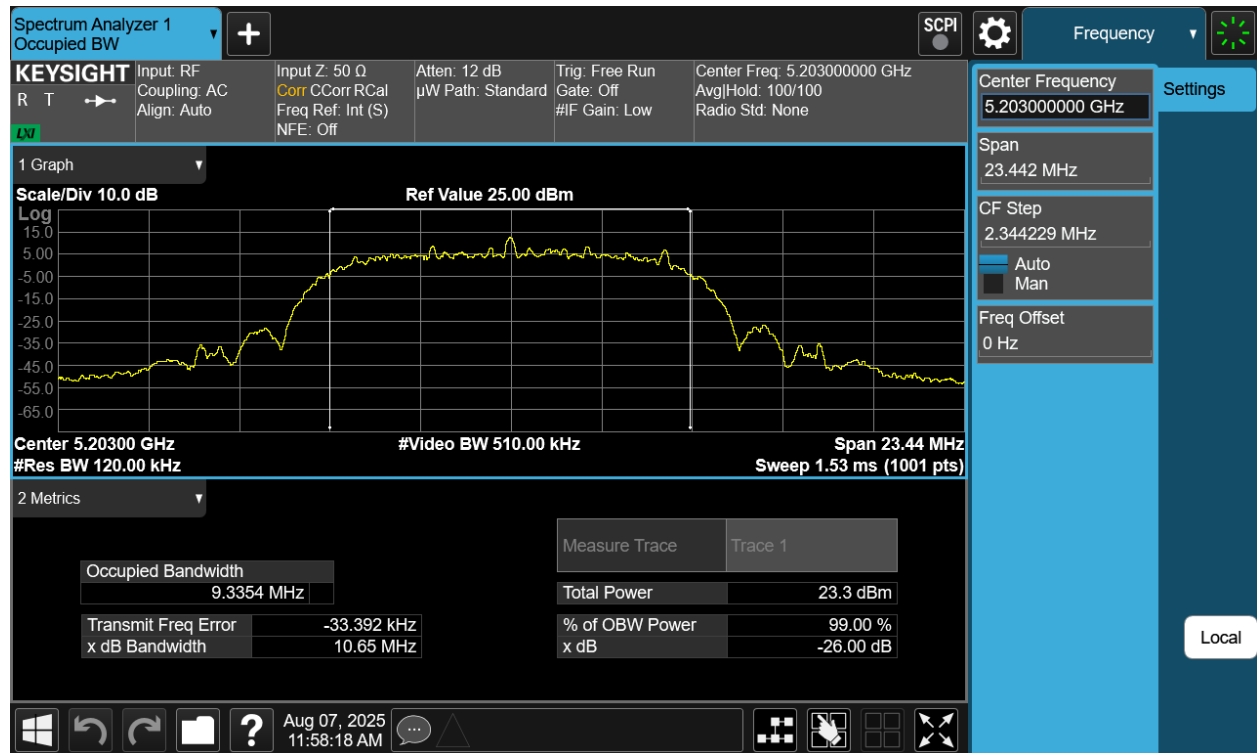
Plot 7-6. 26dB BW & 99% OBW Antenna WF5B (NB UNII HDRPS2, ePA- 5203MHz)

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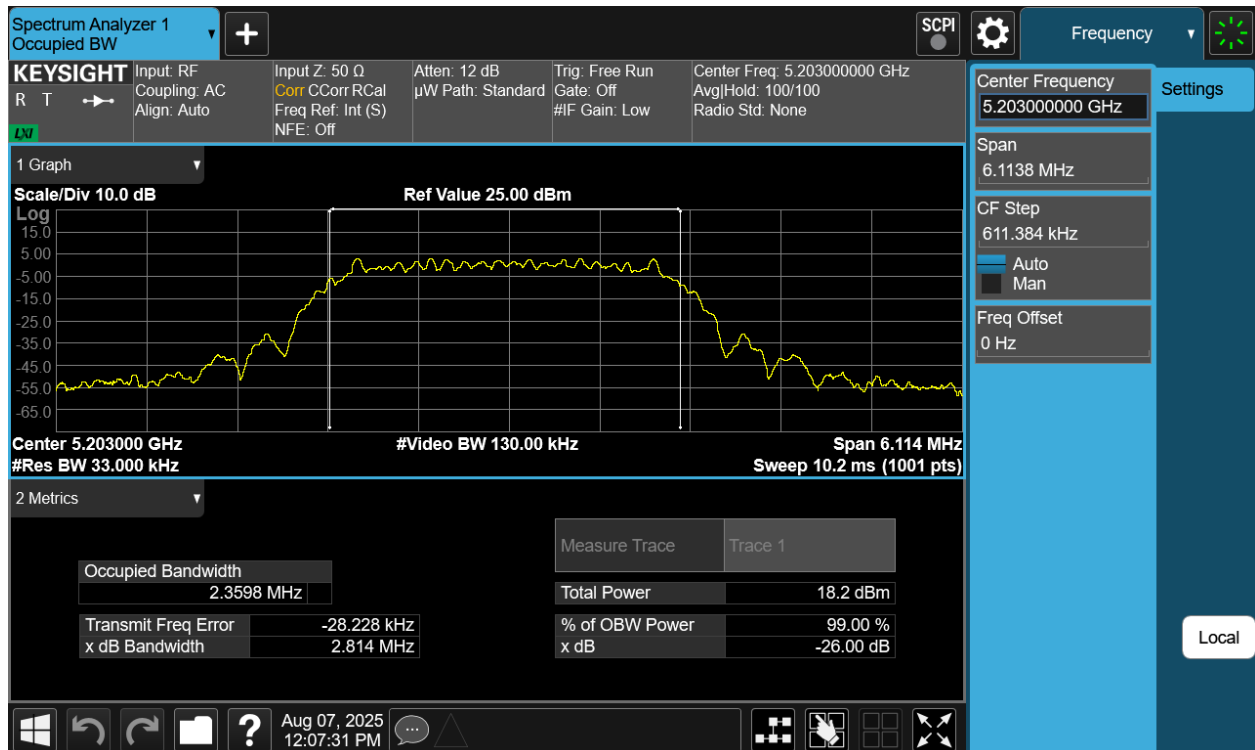




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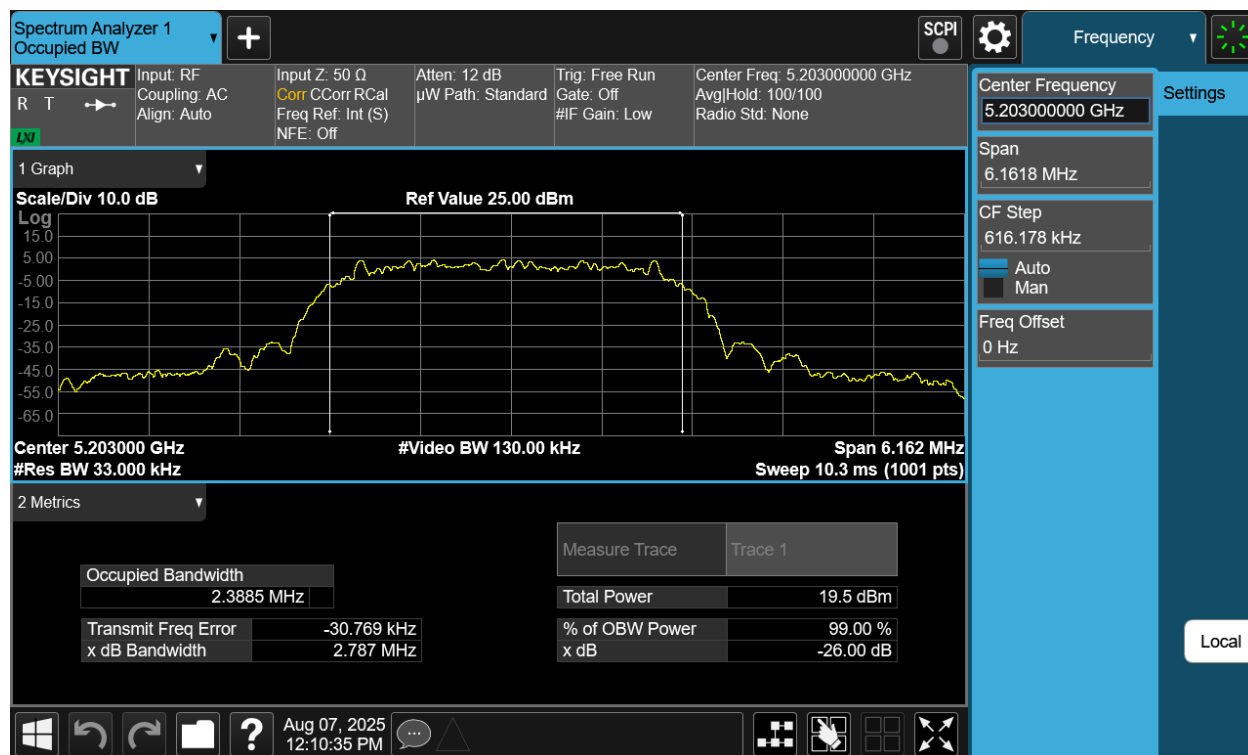


Plot 7-11. 26dB BW & 99% OBW Antenna WF5B (NB UNII HDT2, ePA- 5203MHz)



Plot 7-12. 26dB BW & 99% OBW Antenna WF5B (NB UNII HDT4, ePA- 5203MHz)

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Plot 7-13. 26dB BW & 99% OBW Antenna WF5B (NB UNII HDT6, ePA- 5203MHz)

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7.2.2 Antenna WF8 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	1.262
5203	1.0	NB UNII LE1M	ePA	1.016	1.263
5245	1.0	NB UNII LE1M	ePA	1.016	1.262
5162	2.0	NB UNII LE2M	ePA	2.032	2.513
5203	2.0	NB UNII LE2M	ePA	2.031	2.513
5245	2.0	NB UNII LE2M	ePA	2.032	2.510
5162	4.0	NB UNII HDR4	ePA	2.325	2.710
5203	4.0	NB UNII HDR4	ePA	2.324	2.713
5245	4.0	NB UNII HDR4	ePA	2.324	2.711
5162	8.0	NB UNII HDR8	ePA	4.616	5.309
5203	8.0	NB UNII HDR8	ePA	4.615	5.303
5245	8.0	NB UNII HDR8	ePA	4.607	5.309
5162	2.0	NB UNII HDRPS2	ePA	2.380	2.682
5203	2.0	NB UNII HDRPS2	ePA	2.378	2.691
5245	2.0	NB UNII HDRPS2	ePA	2.372	2.689
5162	6.0	NB UNII XHDRPM6	ePA	4.734	5.375
5203	6.0	NB UNII XHDRPM6	ePA	4.718	5.356
5245	6.0	NB UNII XHDRPM6	ePA	4.734	5.401
5162	16.0	NB UNII HDRPM16	ePA	4.681	5.355
5203	16.0	NB UNII HDRPM16	ePA	4.678	5.378
5245	16.0	NB UNII HDRPM16	ePA	4.678	5.361
5162	12.0	NB UNII HDRPL12	ePA	9.368	10.658
5203	12.0	NB UNII HDRPL12	ePA	9.350	10.656
5245	12.0	NB UNII HDRPL12	ePA	9.360	10.646
5162	32.0	NB UNII HDRPL32	ePA	9.275	10.694
5203	32.0	NB UNII HDRPL32	ePA	9.282	10.688
5245	32.0	NB UNII HDRPL32	ePA	9.283	10.689
5162	2.0	NB UNII HDT2	ePA	2.350	2.749
5203	2.0	NB UNII HDT2	ePA	2.351	2.749
5245	2.0	NB UNII HDT2	ePA	2.350	2.749
5162	4.0	NB UNII HDT4	ePA	2.359	2.813
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	2.388	2.786
5203	6.0	NB UNII HDT6	ePA	2.388	2.784
5245	6.0	NB UNII HDT6	ePA	2.388	2.784

Table 7-3. Conducted BW Measurements Antenna WF8

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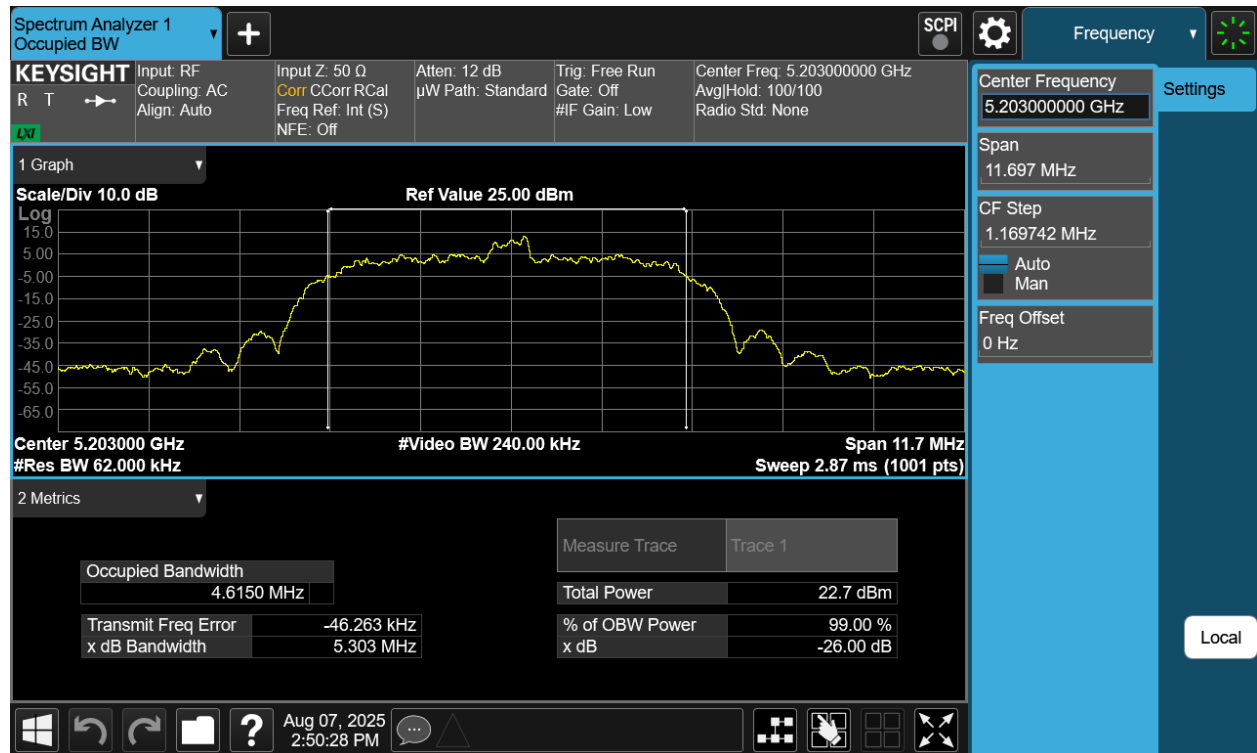
FCC ID: BCGA3357		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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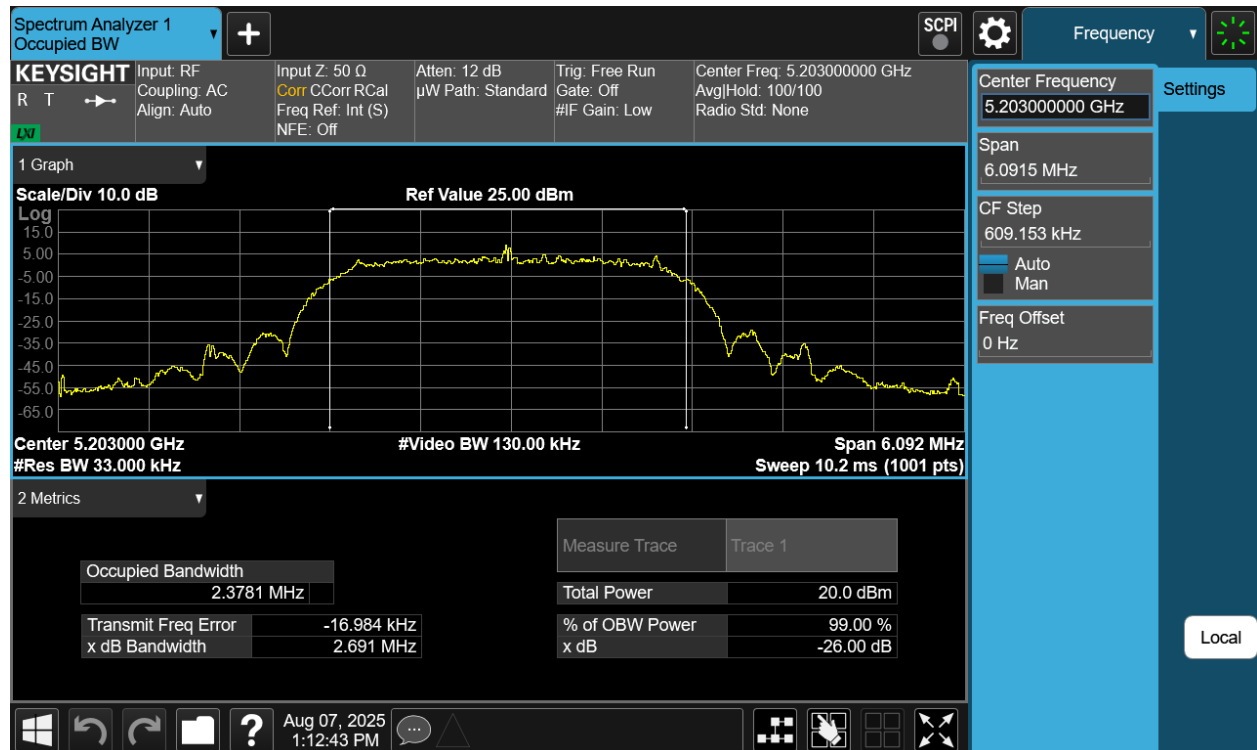
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Plot 7-18. 26dB BW & 99% OBW Antenna WF8 (NB UNII HDR8, ePA- 5203MHz)

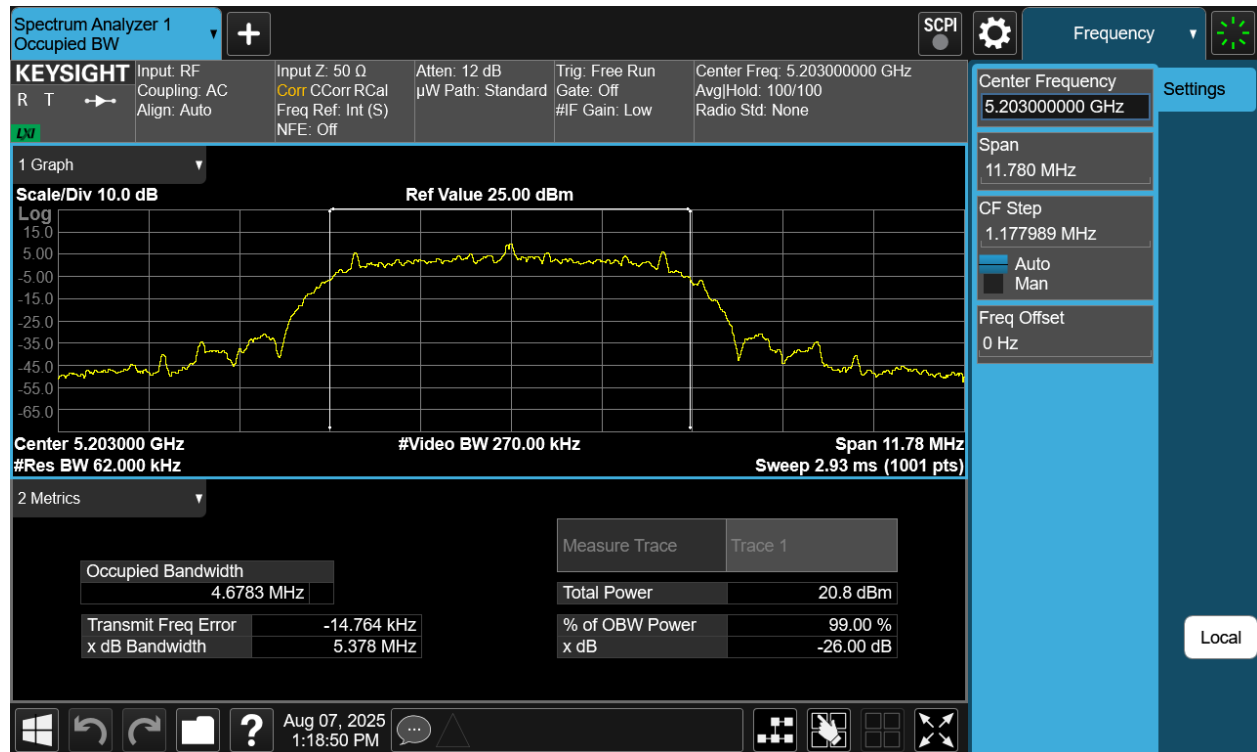


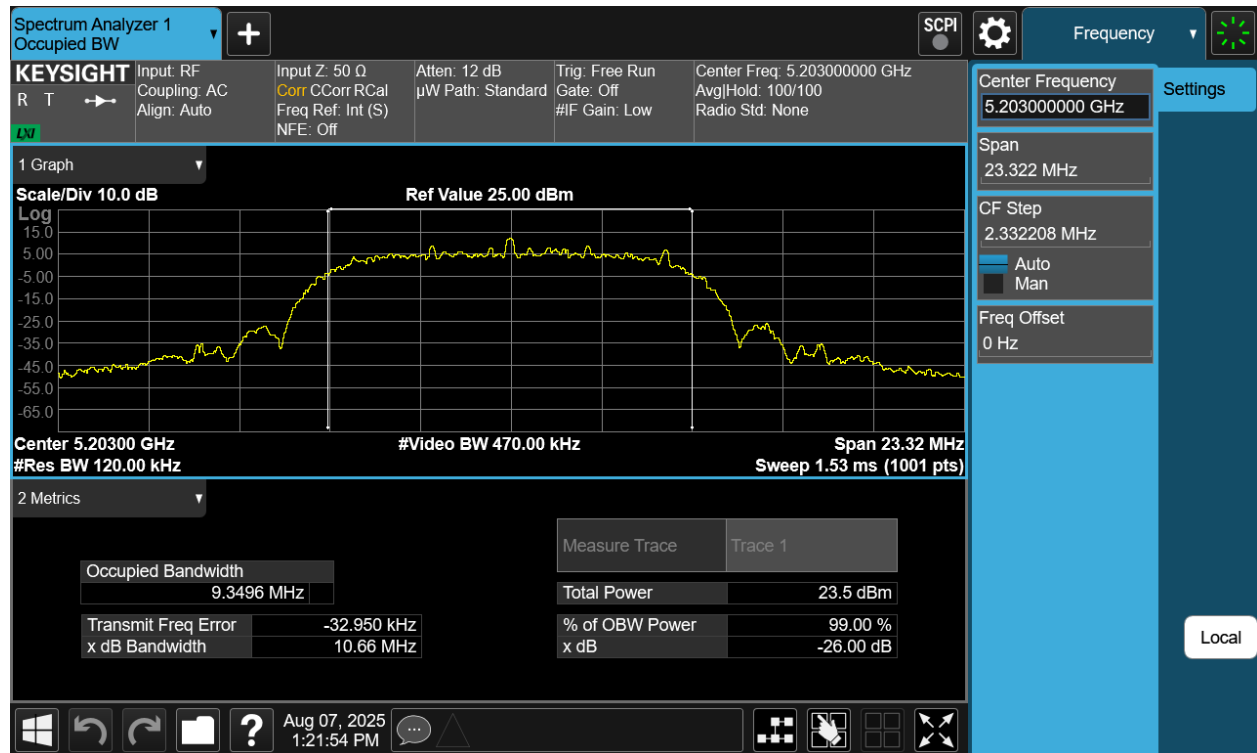
Plot 7-19. 26dB BW & 99% OBW Antenna WF8 (NB UNII HDRPS2, ePA- 5203MHz)

FCC ID: BCGA3357	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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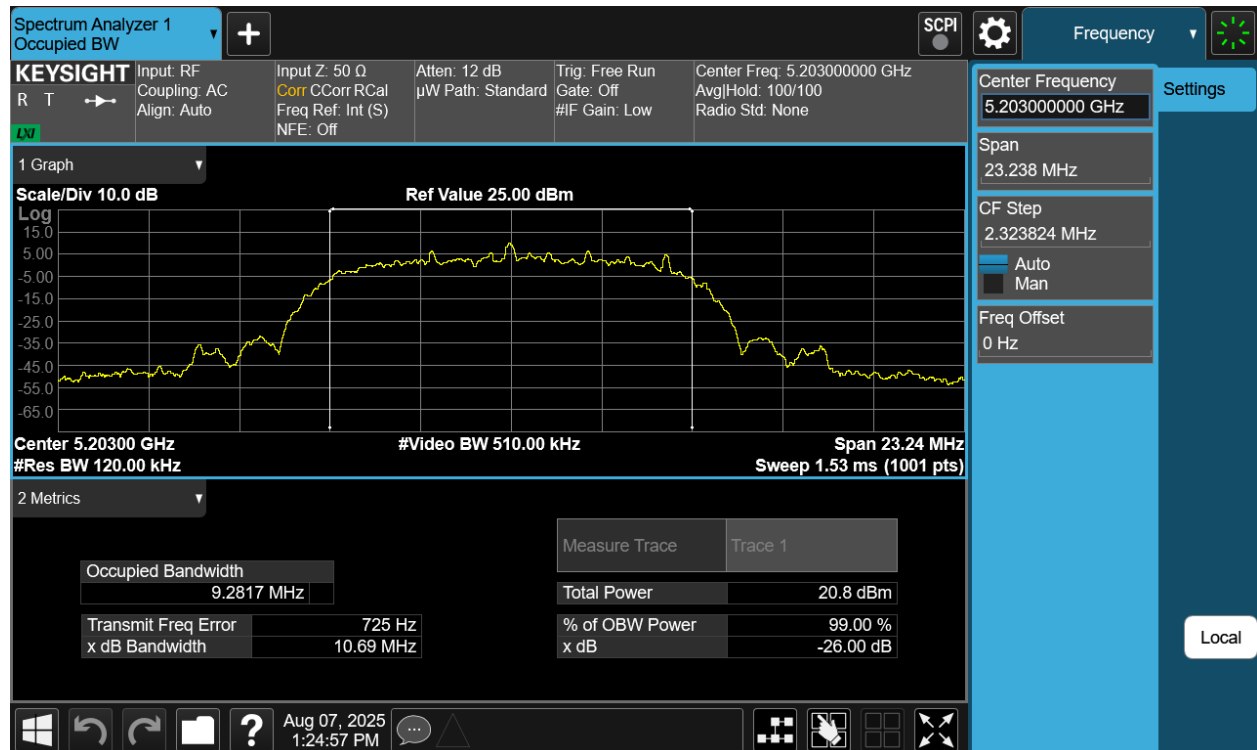
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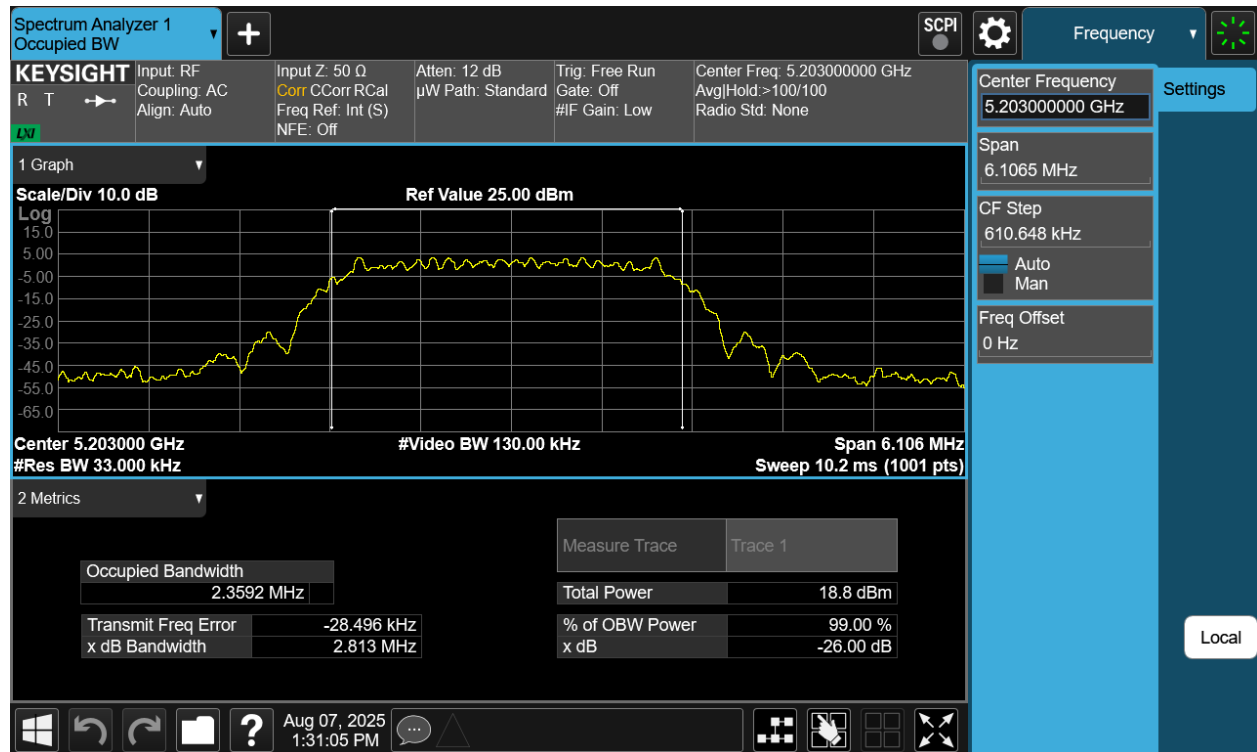
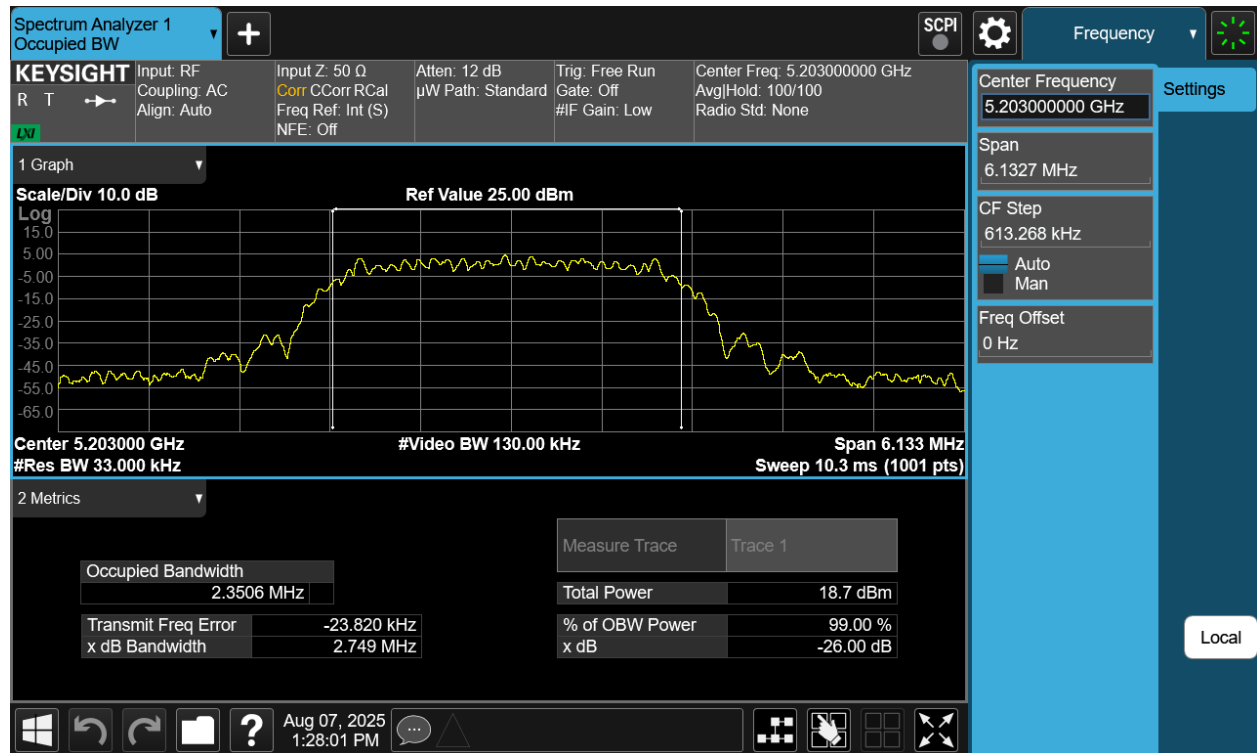


Plot 7-22. 26dB BW & 99% OBW Antenna WF8 (NB UNII HDRPL12, ePA- 5203MHz)



Plot 7-23. 26dB BW & 99% OBW Antenna WF8 (NB UNII HDRPL32, ePA- 5203MHz)

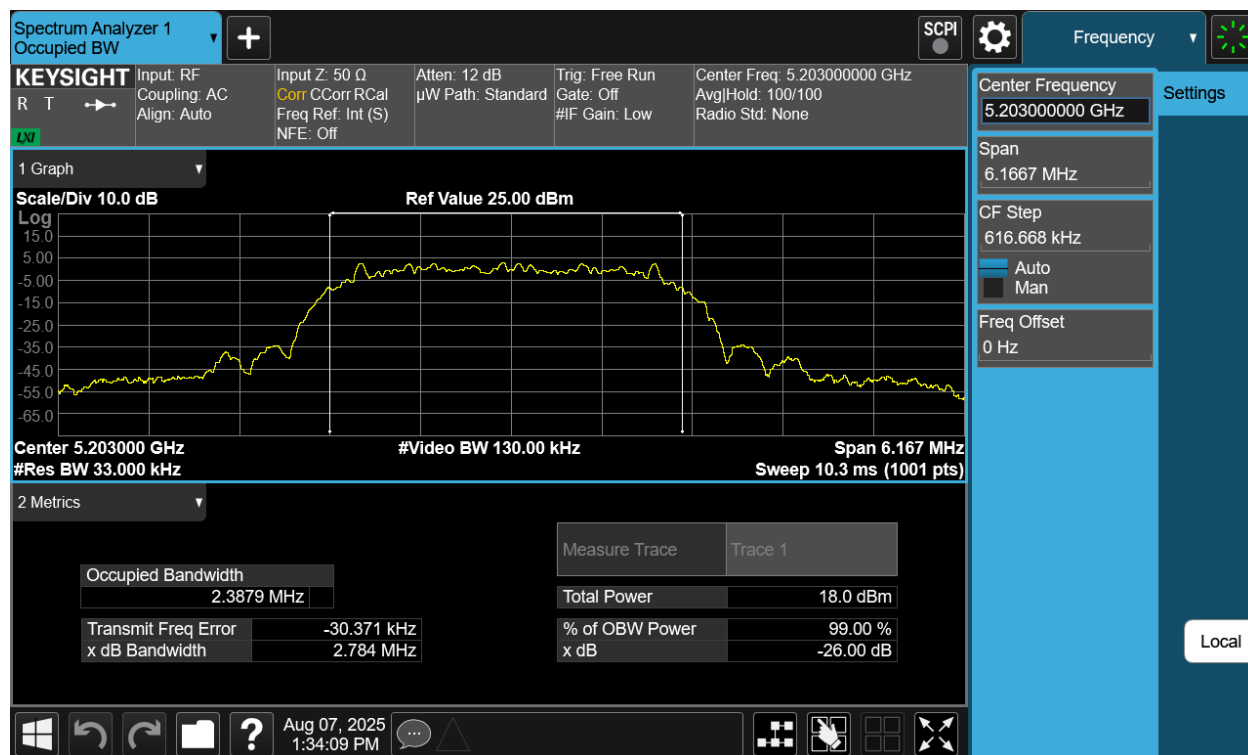
FCC ID: BCGA3357	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Plot 7-26. 26dB BW & 99% OBW Antenna WF8 (NB UNII HDT6, ePA- 5203MHz)

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7.2.3 Antenna WF7 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	1.248
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	1.016	1.262
5203	1.0	NB UNII LE1M	ePA	1.016	1.262
5245	1.0	NB UNII LE1M	ePA	1.016	1.262
5162	2.0	NB UNII LE2M	ePA	2.032	2.511
5203	2.0	NB UNII LE2M	ePA	2.033	2.512
5245	2.0	NB UNII LE2M	ePA	2.032	2.512
5162	4.0	NB UNII HDR4	ePA	2.325	2.716
5203	4.0	NB UNII HDR4	ePA	2.326	2.715
5245	4.0	NB UNII HDR4	ePA	2.327	2.710
5162	8.0	NB UNII HDR8	ePA	4.618	5.299
5203	8.0	NB UNII HDR8	ePA	4.611	5.295
5245	8.0	NB UNII HDR8	ePA	4.616	5.290
5162	2.0	NB UNII HDRPS2	ePA	2.376	2.684
5203	2.0	NB UNII HDRPS2	ePA	2.372	2.678
5245	2.0	NB UNII HDRPS2	ePA	2.386	2.739
5162	6.0	NB UNII XHDRPM6	ePA	4.725	5.369
5203	6.0	NB UNII XHDRPM6	ePA	4.720	5.350
5245	6.0	NB UNII XHDRPM6	ePA	4.689	5.367
5162	16.0	NB UNII HDRPM16	ePA	4.674	5.291
5203	16.0	NB UNII HDRPM16	ePA	4.670	5.291
5245	16.0	NB UNII HDRPM16	ePA	4.675	5.364
5162	12.0	NB UNII HDRPL12	ePA	9.353	10.641
5203	12.0	NB UNII HDRPL12	ePA	9.347	10.648
5245	12.0	NB UNII HDRPL12	ePA	9.385	10.651
5162	32.0	NB UNII HDRPL32	ePA	9.272	10.549
5203	32.0	NB UNII HDRPL32	ePA	9.270	10.530
5245	32.0	NB UNII HDRPL32	ePA	9.277	10.550
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	2.360	2.814
5203	4.0	NB UNII HDT4	ePA	2.360	2.814
5245	4.0	NB UNII HDT4	ePA	2.360	2.814
5162	6.0	NB UNII HDT6	ePA	2.388	2.789
5203	6.0	NB UNII HDT6	ePA	2.388	2.789
5245	6.0	NB UNII HDT6	ePA	2.388	2.791

Table 7-4. Conducted BW Measurements Antenna WF7

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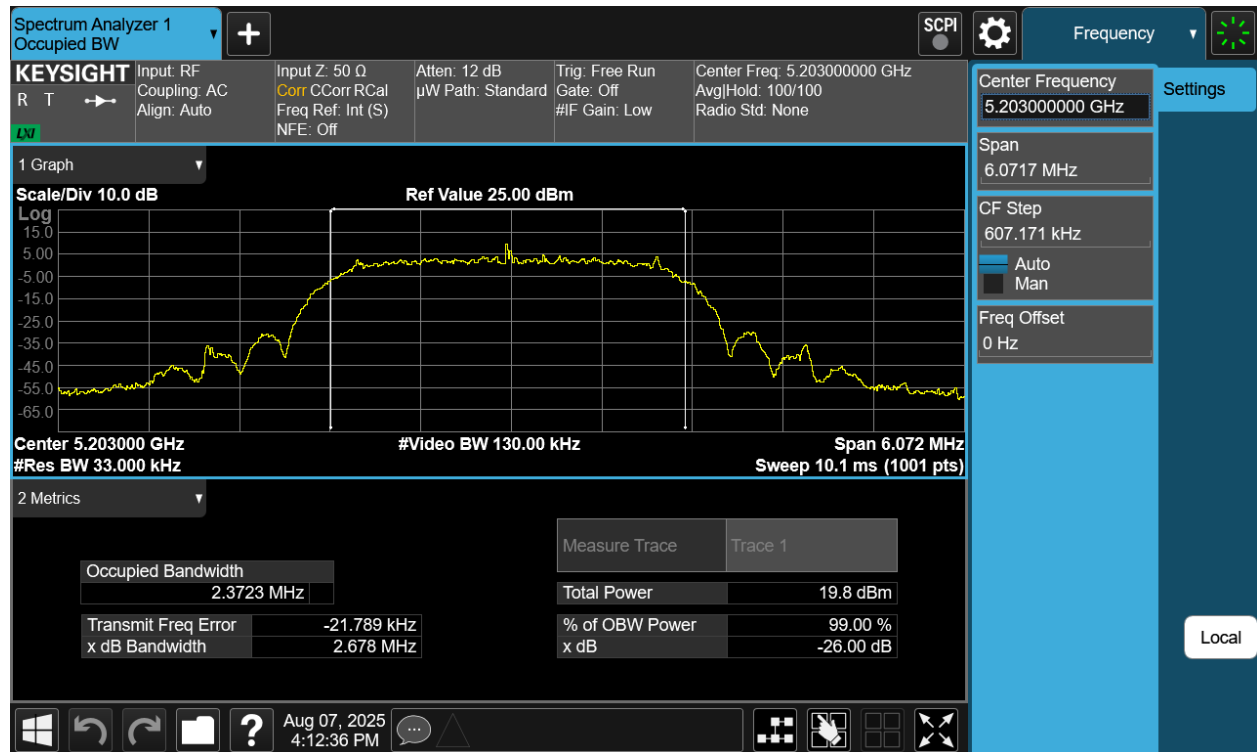


Plot 7-29. 26dB BW & 99% OBW Antenna WF7 (NB UNII LE2M, ePA- 5203MHz)



Plot 7-30. 26dB BW & 99% OBW Antenna WF7 (NB UNII HDR4, ePA- 5203MHz)

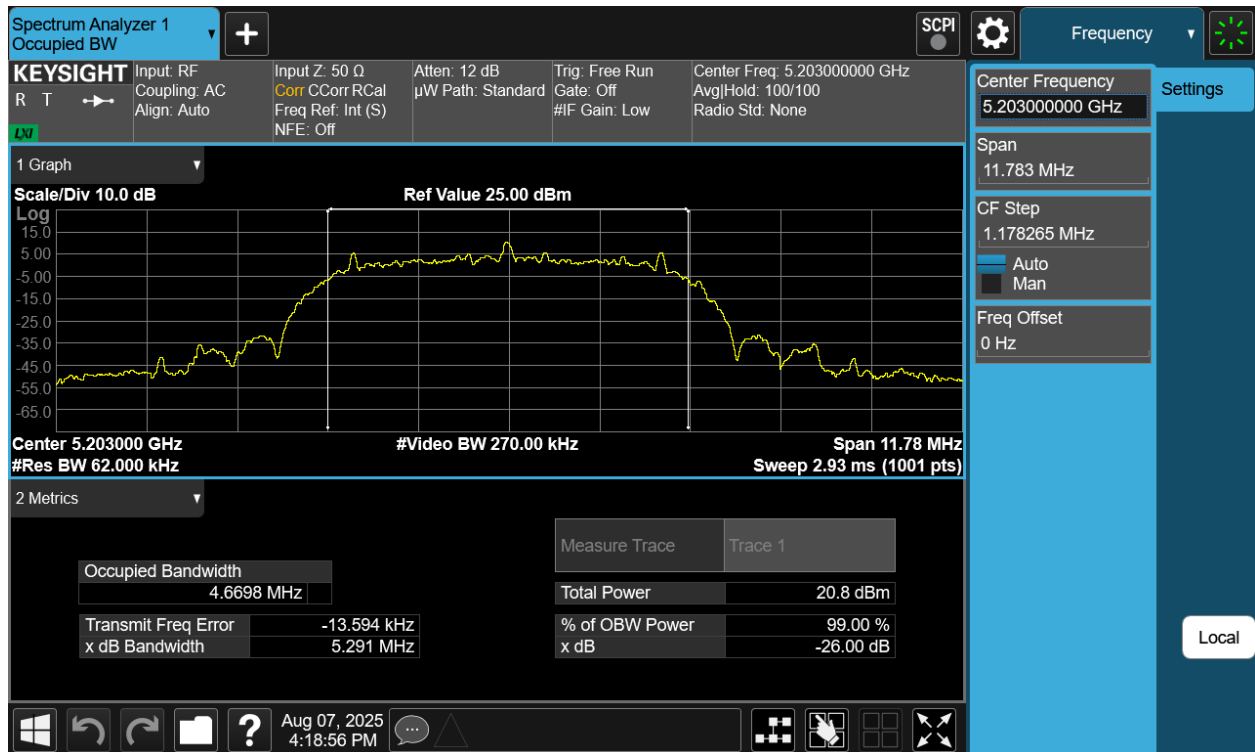
FCC ID: BCGA3357	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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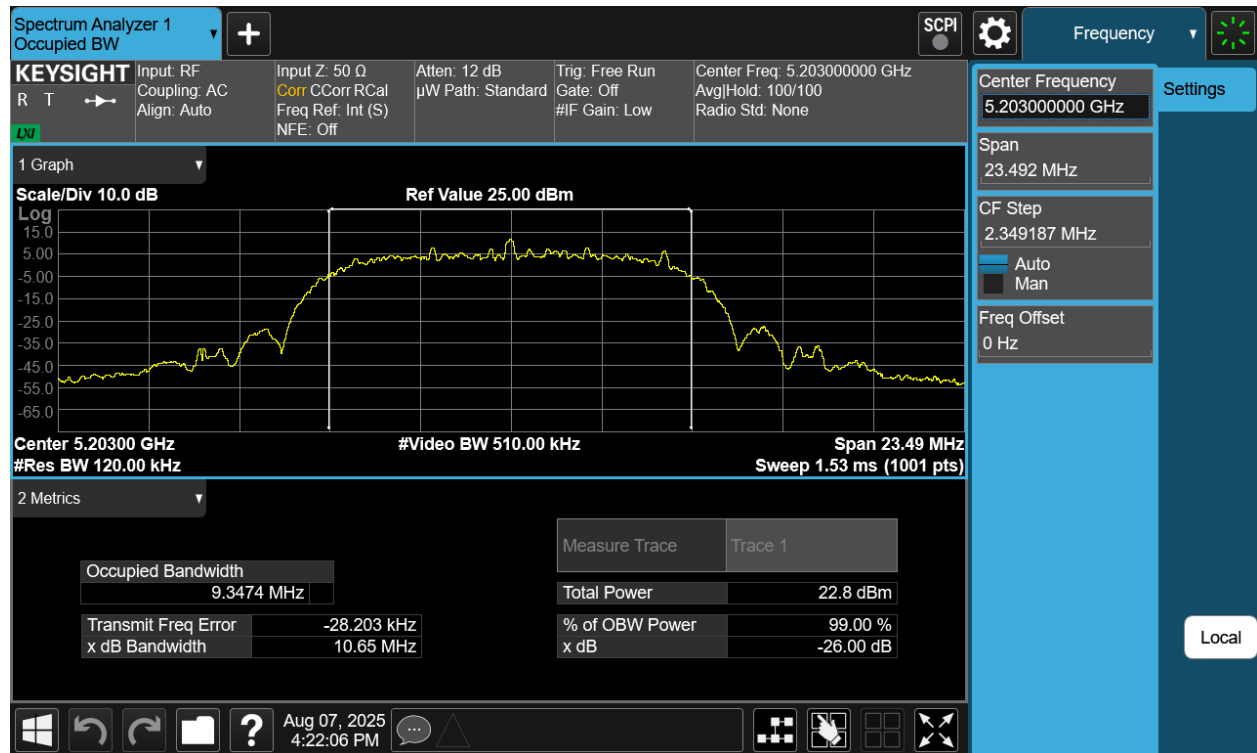
FCC ID: BCGA3357		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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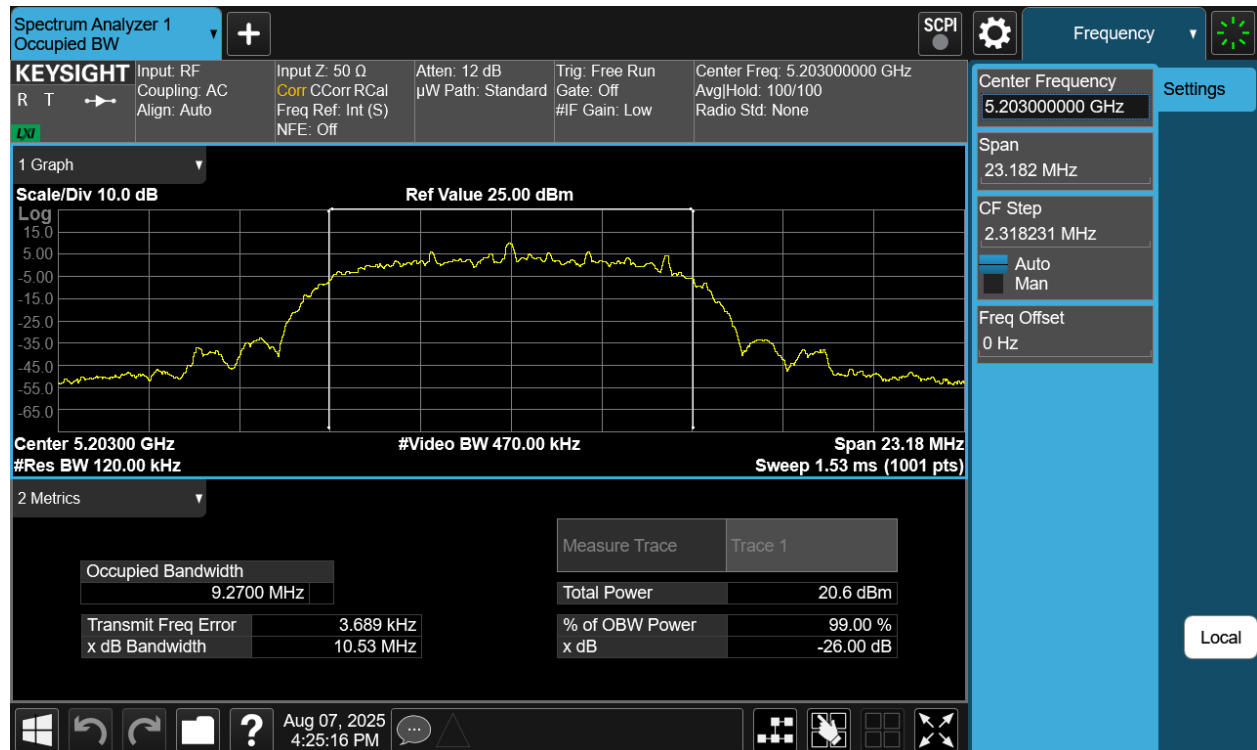
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Plot 7-35. 26dB BW & 99% OBW Antenna WF7 (NB UNII HDRPL12, ePA- 5203MHz)

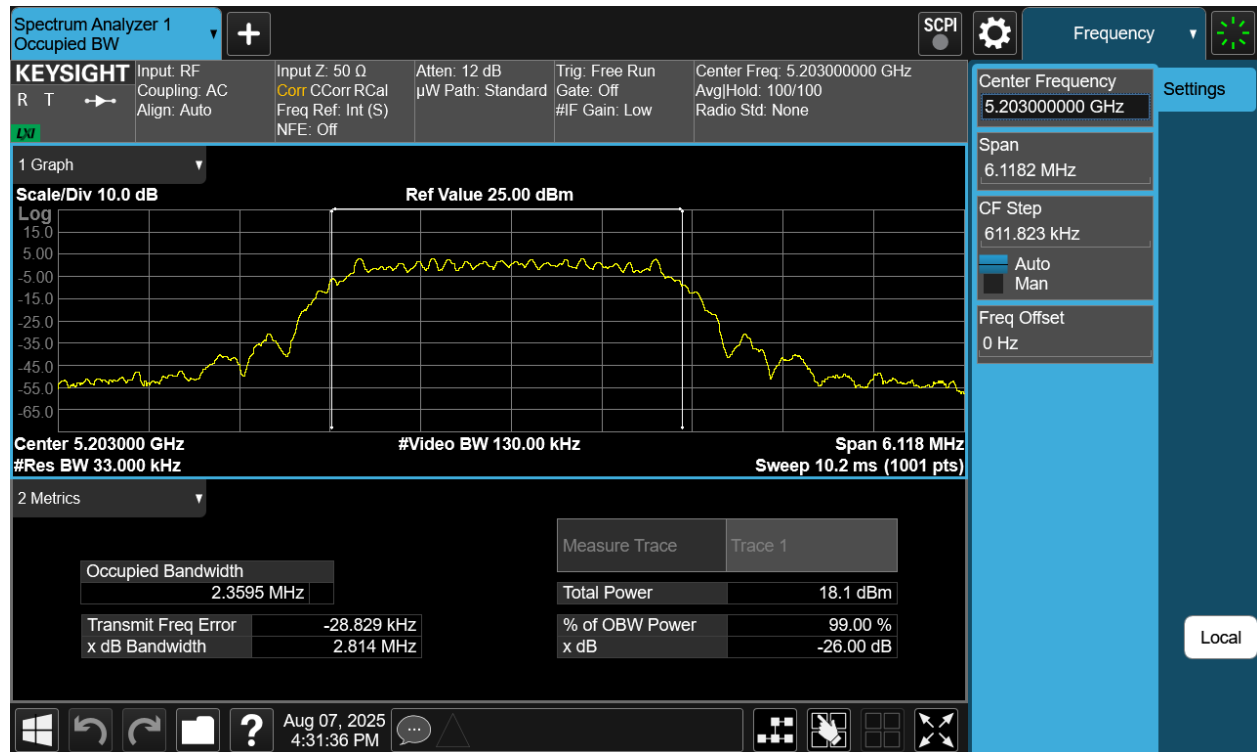
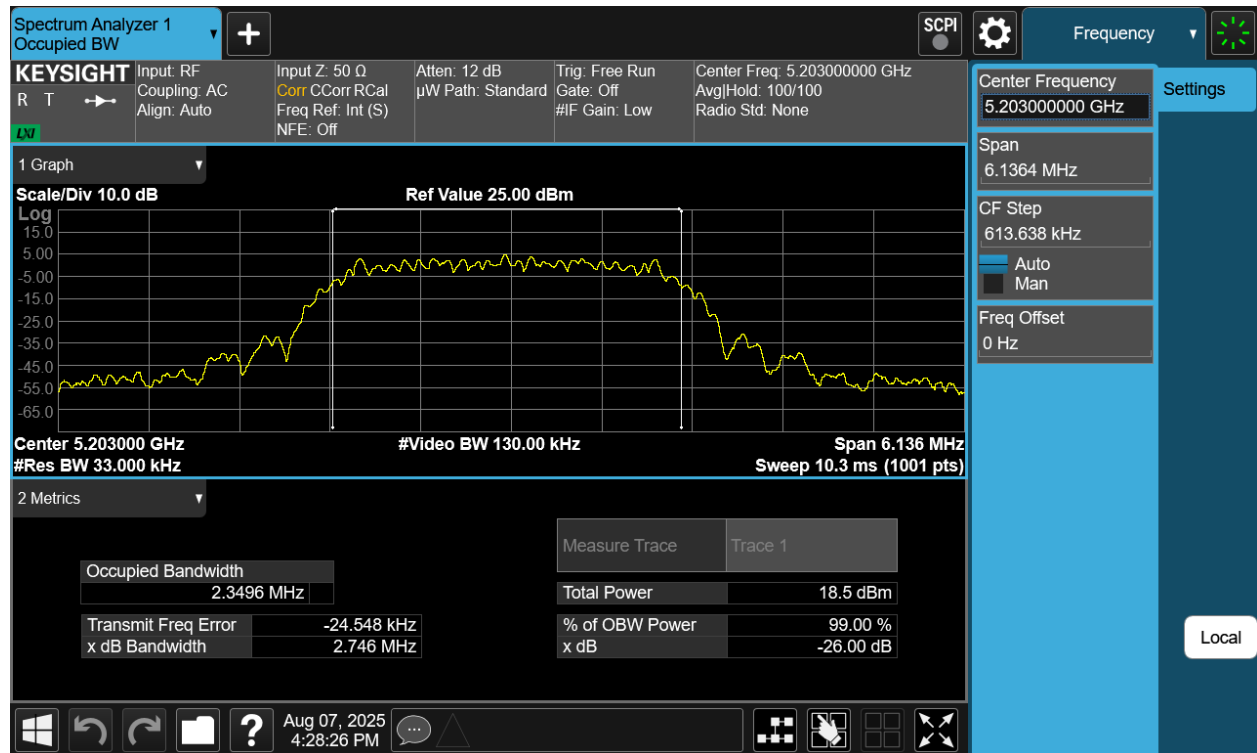


Plot 7-36. 26dB BW & 99% OBW Antenna WF7 (NB UNII HDRPL32, ePA- 5203MHz)

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7.3 6dB & 99% Bandwidth Measurement

\$2.1049; \$15.407 (e)

Test Overview and Limit

The bandwidth at 6dB down from the highest in-band spectral density is measured with a spectrum analyzer connected to the 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 and KDB 789033 D02 v02r01, and at the appropriate frequencies. The spectrum analyzer's bandwidth measurement function is configured to measure the 6dB bandwidth.

In the 5.725 – 5.850GHz band, the 6dB bandwidth must be ≥ 500 kHz.

Test Procedure Used

ANSI C63.10-2020 – Subclause 12.5.1.
KDB 789033 D02 v02r01 – Section C

Test Settings

1. The signal analyzers' automatic bandwidth measurement capability was used to perform the 6dB bandwidth measurement. The "X" dB bandwidth parameter was set to $X = 6$. 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 = 100 kHz
3. VBW $\geq 3 \times$ RBW
4. Detector = Peak
5. Trace mode = max hold
6. Sweep = auto couple

Test Setup

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



Figure 7-2. Test Instrument & Measurement Setup

Test Notes

1. All antenna configurations 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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7.3.1 Antenna WF5B 6dB & 99% Bandwidth Measurements (U-NII-3)

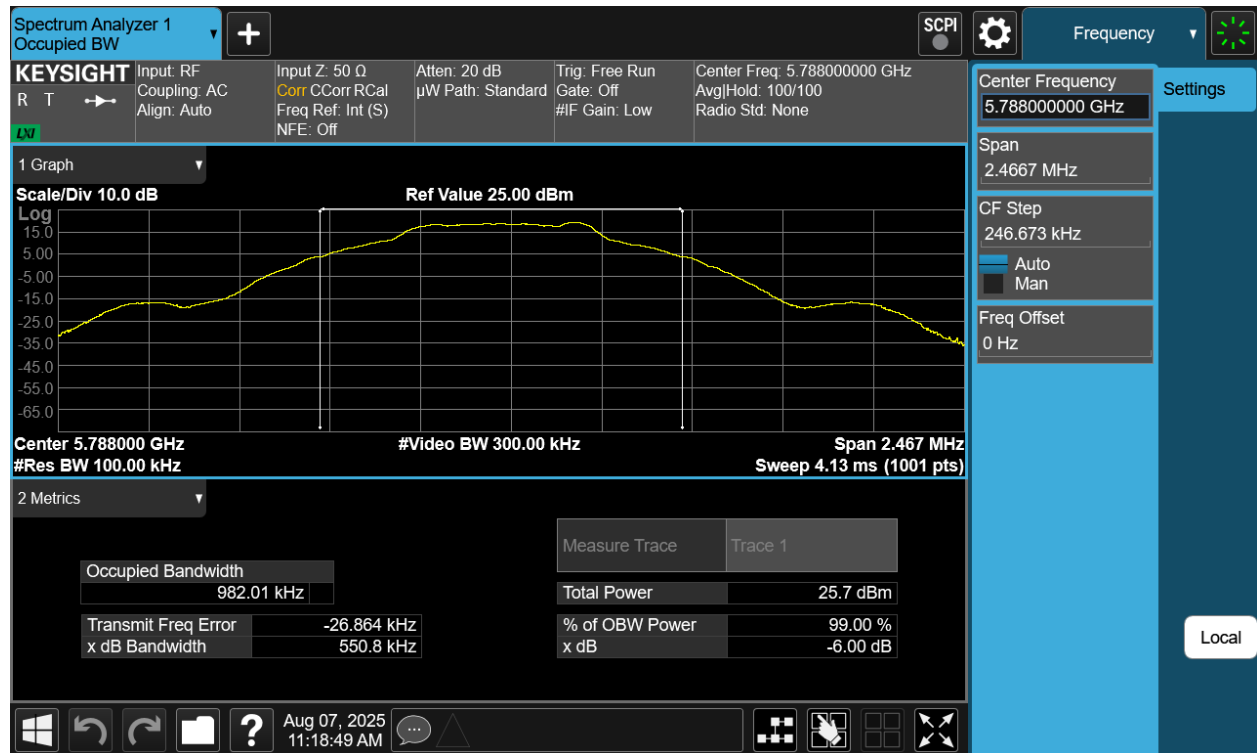
Frequency [MHz]	Data Rate [Mbps]	Mode	Power Scheme	Measured 99% Occupied Bandwidth [MHz]	Measured 6dB Bandwidth [MHz]	Minimum 6dB Bandwidth [MHz]	Pass / Fail
5733	1.0	NB UNII BDR	ePA	0.982	0.552	0.500	Pass
5788	1.0	NB UNII BDR	ePA	0.982	0.551	0.500	Pass
5844	1.0	NB UNII BDR	ePA	0.982	0.551	0.500	Pass
5733	1.0	NB UNII LE1M	ePA	1.033	0.664	0.500	Pass
5788	1.0	NB UNII LE1M	ePA	1.033	0.662	0.500	Pass
5844	1.0	NB UNII LE1M	ePA	1.033	0.663	0.500	Pass
5733	2.0	NB UNII LE2M	ePA	2.042	1.181	0.500	Pass
5788	2.0	NB UNII LE2M	ePA	2.043	1.179	0.500	Pass
5844	2.0	NB UNII LE2M	ePA	2.043	1.178	0.500	Pass
5733	4.0	NB UNII HDR4	ePA	2.348	1.662	0.500	Pass
5788	4.0	NB UNII HDR4	ePA	2.349	1.842	0.500	Pass
5844	4.0	NB UNII HDR4	ePA	2.349	1.577	0.500	Pass
5733	8.0	NB UNII HDR8	ePA	4.634	0.556	0.500	Pass
5788	8.0	NB UNII HDR8	ePA	4.657	1.056	0.500	Pass
5844	8.0	NB UNII HDR8	ePA	4.642	0.874	0.500	Pass
5733	2.0	NB UNII HDRPS2	ePA	2.380	2.087	0.500	Pass
5788	2.0	NB UNII HDRPS2	ePA	2.377	2.100	0.500	Pass
5844	2.0	NB UNII HDRPS2	ePA	2.387	2.110	0.500	Pass
5733	6.0	NB UNII XHDRPM6	ePA	4.749	4.072	0.500	Pass
5788	6.0	NB UNII XHDRPM6	ePA	4.727	4.078	0.500	Pass
5844	6.0	NB UNII XHDRPM6	ePA	4.709	4.019	0.500	Pass
5733	16.0	NB UNII HDRPM16	ePA	4.687	4.030	0.500	Pass
5788	16.0	NB UNII HDRPM16	ePA	4.689	4.042	0.500	Pass
5844	16.0	NB UNII HDRPM16	ePA	4.678	4.048	0.500	Pass
5733	12.0	NB UNII HDRPL12	ePA	9.361	6.117	0.500	Pass
5788	12.0	NB UNII HDRPL12	ePA	9.351	6.118	0.500	Pass
5844	12.0	NB UNII HDRPL12	ePA	9.344	6.120	0.500	Pass
5733	32.0	NB UNII HDRPL32	ePA	9.293	6.123	0.500	Pass
5788	32.0	NB UNII HDRPL32	ePA	9.296	6.125	0.500	Pass
5844	32.0	NB UNII HDRPL32	ePA	9.295	6.126	0.500	Pass
5733	2.0	NB UNII HDT2	ePA	2.394	2.117	0.500	Pass
5788	2.0	NB UNII HDT2	ePA	2.394	2.118	0.500	Pass
5844	2.0	NB UNII HDT2	ePA	2.394	2.119	0.500	Pass
5733	4.0	NB UNII HDT4	ePA	2.402	2.129	0.500	Pass
5788	4.0	NB UNII HDT4	ePA	2.402	2.129	0.500	Pass
5844	4.0	NB UNII HDT4	ePA	2.402	2.129	0.500	Pass
5733	6.0	NB UNII HDT6	ePA	2.399	2.127	0.500	Pass
5788	6.0	NB UNII HDT6	ePA	2.399	2.127	0.500	Pass
5844	6.0	NB UNII HDT6	ePA	2.399	2.126	0.500	Pass

Table 7-5. Conducted BW Measurements Antenna WF5B

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Plot 7-42. 6dB BW & 99% OBW Antenna WF5B (NB UNII LE2M, ePA- 5788MHz)

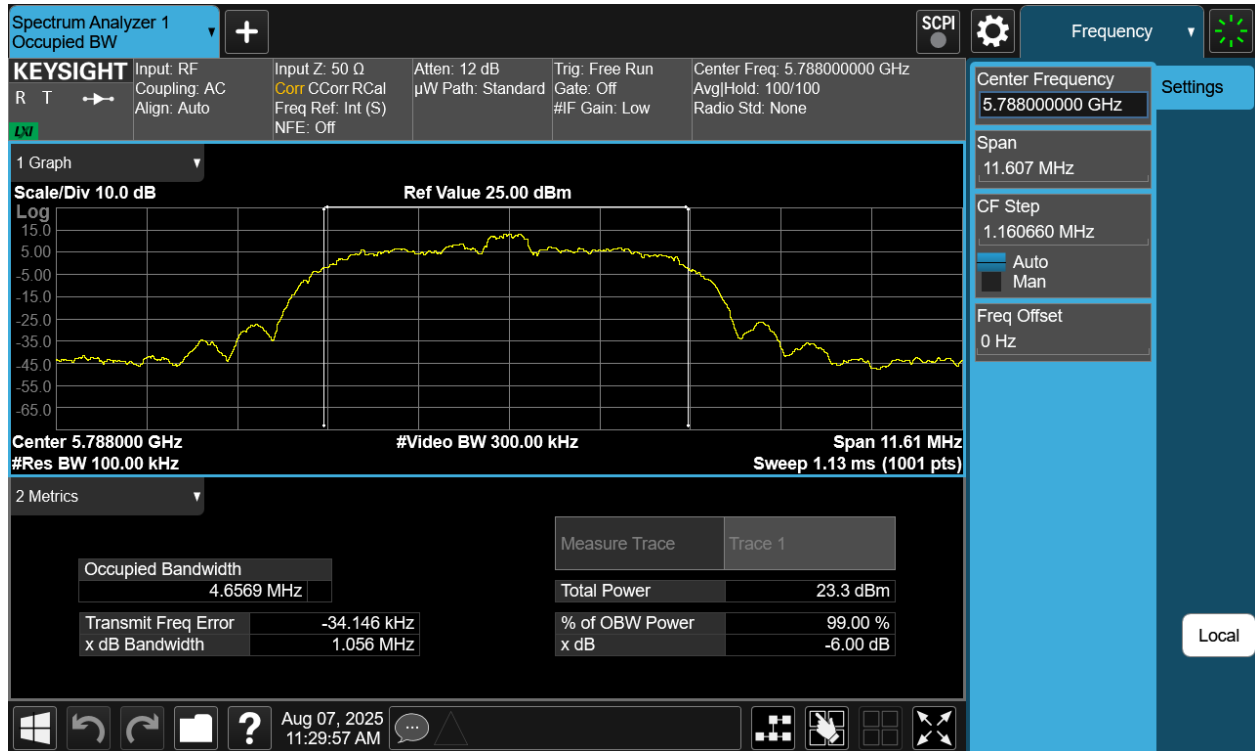


Plot 7-43. 6dB BW & 99% OBW Antenna WF5B (NB UNII HDR4, ePA - 5788MHz)

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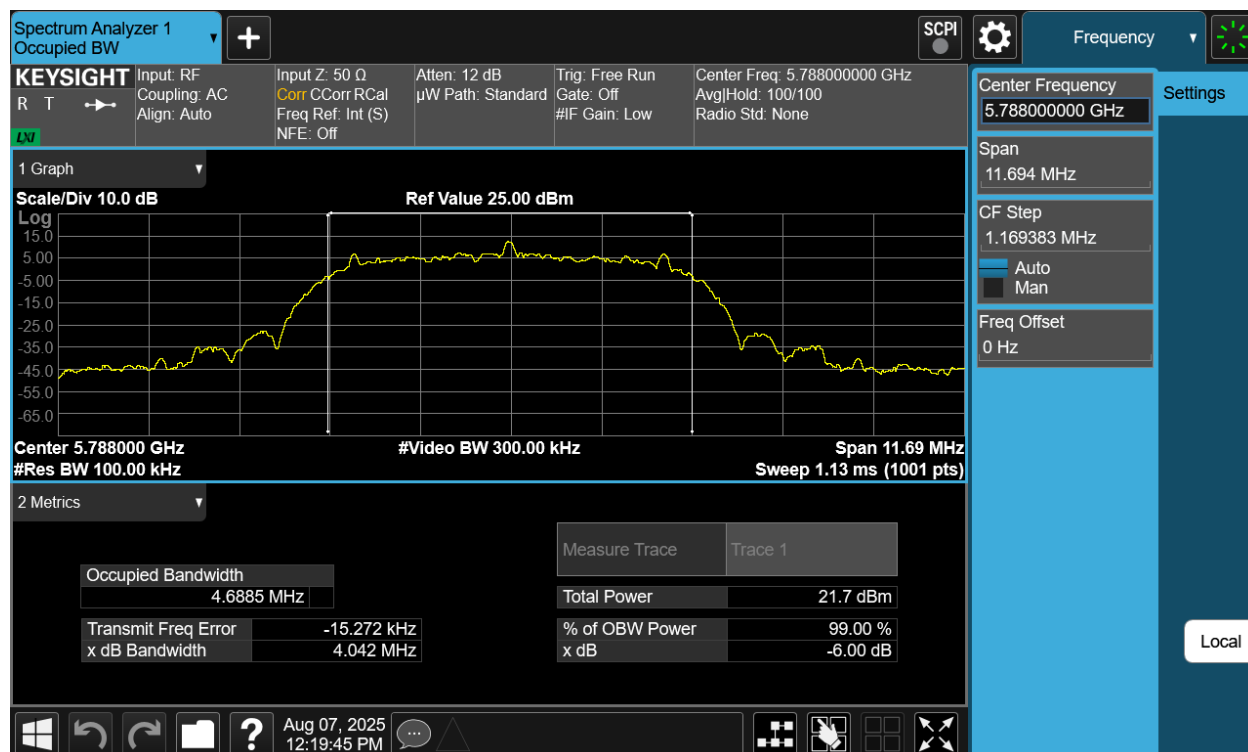
FCC ID: BCGA3357		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-46. 6dB BW & 99% OBW Antenna WF5B (NB UNII XHDRPM6, ePA – 5788MHz)

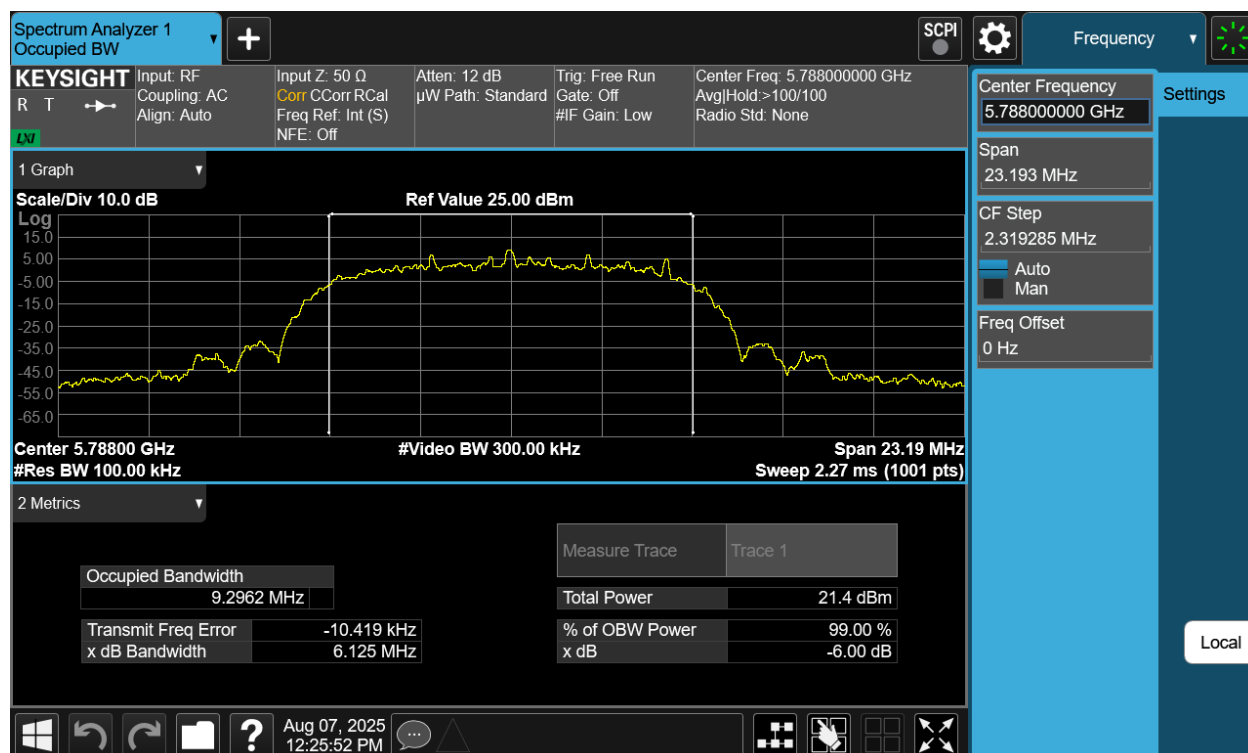
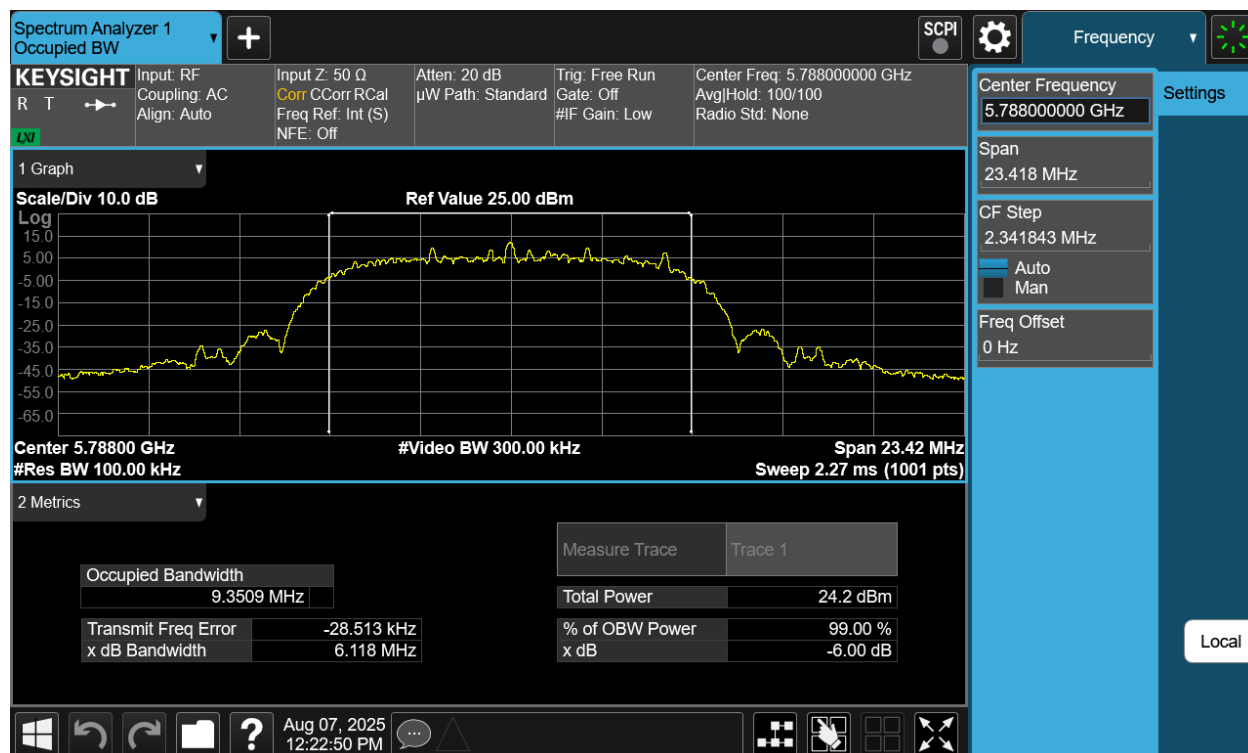


Plot 7-47. 6dB BW & 99% OBW Antenna WF5B (NB UNII HDRPM16, ePA – 5788MHz)

FCC ID: BCGA3357	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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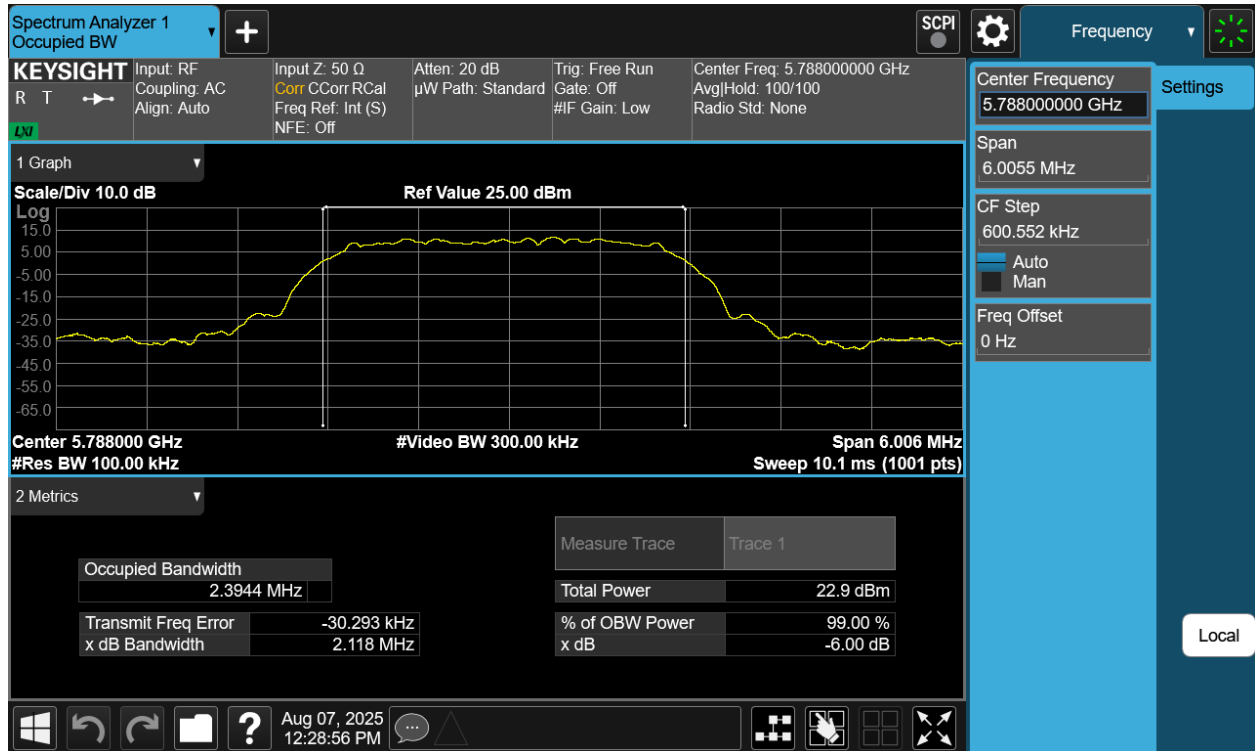
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Plot 7-52. 6dB BW & 99% OBW Antenna WF5B (NB UNII HDT6, ePA– 5788MHz)

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7.3.2 Antenna WF8 6dB & 99% Bandwidth Measurements (U-NII-3)

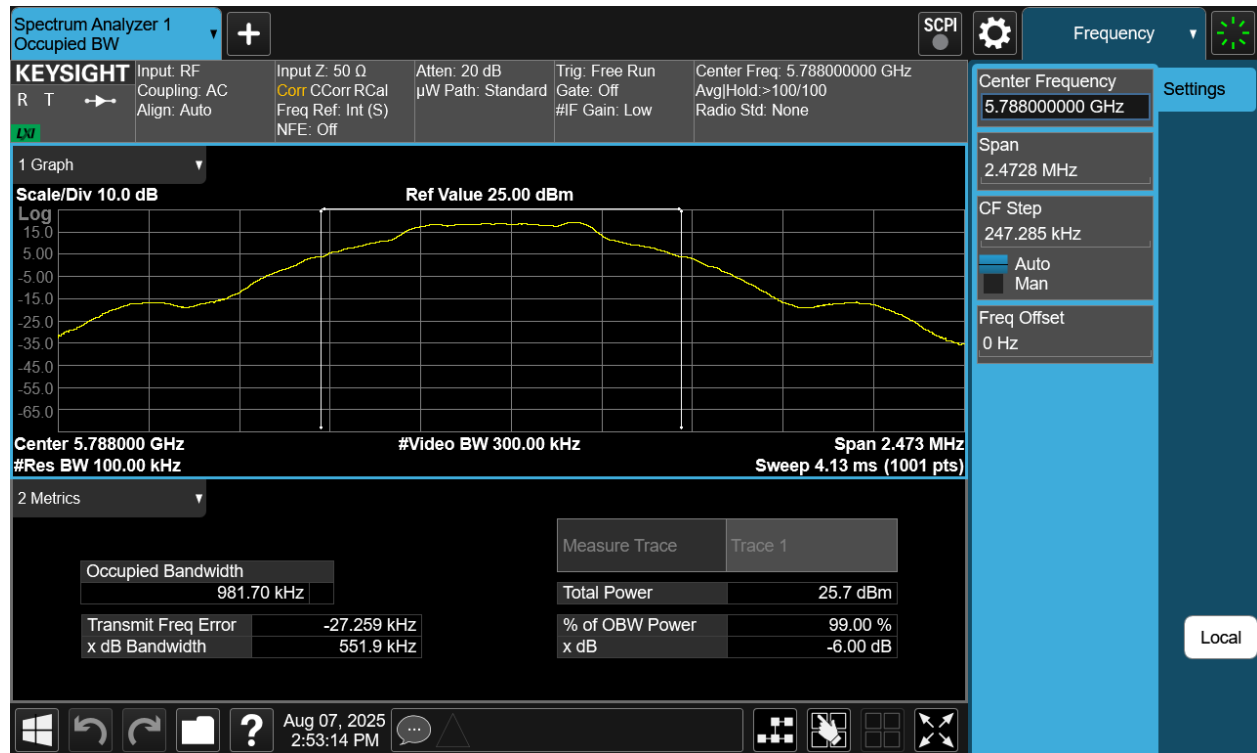
Frequency [MHz]	Data Rate [Mbps]	Mode	Power Scheme	Measured 99% Occupied Bandwidth [MHz]	Measured 6dB Bandwidth [MHz]	Minimum 6dB Bandwidth [MHz]	Pass / Fail
5733	1.0	NB UNII BDR	ePA	0.982	0.552	0.500	Pass
5788	1.0	NB UNII BDR	ePA	0.982	0.552	0.500	Pass
5844	1.0	NB UNII BDR	ePA	0.982	0.551	0.500	Pass
5733	1.0	NB UNII LE1M	ePA	1.034	0.664	0.500	Pass
5788	1.0	NB UNII LE1M	ePA	1.034	0.664	0.500	Pass
5844	1.0	NB UNII LE1M	ePA	1.034	0.664	0.500	Pass
5733	2.0	NB UNII LE2M	ePA	2.044	1.184	0.500	Pass
5788	2.0	NB UNII LE2M	ePA	2.043	1.181	0.500	Pass
5844	2.0	NB UNII LE2M	ePA	2.044	1.180	0.500	Pass
5733	4.0	NB UNII HDR4	ePA	2.347	1.854	0.500	Pass
5788	4.0	NB UNII HDR4	ePA	2.344	1.853	0.500	Pass
5844	4.0	NB UNII HDR4	ePA	2.349	1.667	0.500	Pass
5733	8.0	NB UNII HDR8	ePA	4.637	0.555	0.500	Pass
5788	8.0	NB UNII HDR8	ePA	4.634	0.556	0.500	Pass
5844	8.0	NB UNII HDR8	ePA	4.640	0.554	0.500	Pass
5733	2.0	NB UNII HDRPS2	ePA	2.379	2.076	0.500	Pass
5788	2.0	NB UNII HDRPS2	ePA	2.382	2.070	0.500	Pass
5844	2.0	NB UNII HDRPS2	ePA	2.380	2.104	0.500	Pass
5733	6.0	NB UNII XHDRPM6	ePA	4.723	4.076	0.500	Pass
5788	6.0	NB UNII XHDRPM6	ePA	4.711	4.065	0.500	Pass
5844	6.0	NB UNII XHDRPM6	ePA	4.719	4.025	0.500	Pass
5733	16.0	NB UNII HDRPM16	ePA	4.679	1.181	0.500	Pass
5788	16.0	NB UNII HDRPM16	ePA	4.698	2.718	0.500	Pass
5844	16.0	NB UNII HDRPM16	ePA	4.672	4.053	0.500	Pass
5733	12.0	NB UNII HDRPL12	ePA	9.333	6.106	0.500	Pass
5788	12.0	NB UNII HDRPL12	ePA	9.351	6.101	0.500	Pass
5844	12.0	NB UNII HDRPL12	ePA	9.331	6.103	0.500	Pass
5733	32.0	NB UNII HDRPL32	ePA	9.277	6.113	0.500	Pass
5788	32.0	NB UNII HDRPL32	ePA	9.281	6.108	0.500	Pass
5844	32.0	NB UNII HDRPL32	ePA	9.287	6.109	0.500	Pass
5733	2.0	NB UNII HDT2	ePA	2.394	2.120	0.500	Pass
5788	2.0	NB UNII HDT2	ePA	2.394	2.118	0.500	Pass
5844	2.0	NB UNII HDT2	ePA	2.394	2.120	0.500	Pass
5733	4.0	NB UNII HDT4	ePA	2.401	2.125	0.500	Pass
5788	4.0	NB UNII HDT4	ePA	2.401	2.125	0.500	Pass
5844	4.0	NB UNII HDT4	ePA	2.401	2.125	0.500	Pass
5733	6.0	NB UNII HDT6	ePA	2.400	2.127	0.500	Pass
5788	6.0	NB UNII HDT6	ePA	2.400	2.128	0.500	Pass
5844	6.0	NB UNII HDT6	ePA	2.400	2.128	0.500	Pass

Table 7-6. Conducted BW Measurements Antenna WF8

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Plot 7-53. 6dB BW & 99% OBW Antenna WF8 (NB UNII BDR, ePA – 5788MHz)



Plot 7-54. 6dB BW & 99% OBW Antenna WF8 (NB UNII LE1M, ePA– 5788MHz)

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