

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:

9/3/2025

Test Site/Location:

Element Materials Technology, Morgan Hill, CA, USA

Test Report Serial No.:

1C2504170039-19-R2.BCG

FCC ID:

BCGA3358

APPLICANT:

Apple Inc.

Application Type:

Certification

Model:

A3358, A3359

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: 1C2504170039-19-R2.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: BCGA3358		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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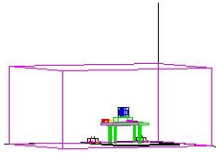
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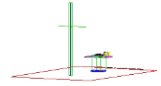
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MEASUREMENT REPORT



UNII Band	Tx Frequency [MHz]	Mode	Power Scheme	SISO						TxBF Primary		TxBF Diversity	
				Antenna WF5B		Antenna 4a		Antenna 2a		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	9.016	9.55	9.908	9.96	9.863	9.94	9.750	9.89	9.840	9.93
			iPA	1.256	0.99	2.296	3.61	1.225	0.88	3.622	5.59	3.614	5.58
		NB UNII LE	ePA	12.218	10.87	11.776	10.71	12.331	10.91	11.429	10.58	12.078	10.82
			iPA	1.227	0.89	2.483	3.95	1.239	0.93	3.556	5.51	3.581	5.54
		NB UNII HDR	ePA	17.579	12.45	21.528	13.33	17.378	12.40	38.548	15.86	39.811	16.00
			iPA	0.625	-2.04	1.245	0.95	0.624	-2.05	1.866	2.71	1.884	2.75
		NB UNII HDT	ePA	17.783	12.50	17.701	12.48	17.742	12.49	16.788	12.25	17.061	12.32
			iPA	0.625	-2.04	1.239	0.93	0.614	-2.12	1.837	2.64	1.791	2.53
		NB UNII BDR	ePA	68.391	18.35	69.663	18.43	70.795	18.50	135.831	21.33	135.519	21.32
			iPA	1.507	1.78	2.729	4.36	1.469	1.67	4.217	6.25	4.315	6.35
3	5733 - 5844	NB UNII LE	ePA	69.183	18.40	70.307	18.47	70.307	18.47	137.721	21.39	133.660	21.26
			iPA	1.585	2.00	2.780	4.44	1.570	1.96	4.150	6.18	4.150	6.18
		NB UNII HDR	ePA	22.336	13.49	25.003	13.98	21.979	13.42	46.881	16.71	46.666	16.69
			iPA	0.793	-1.01	1.368	1.36	0.791	-1.02	2.153	3.33	2.143	3.31
		NB UNII HDT	ePA	22.387	13.50	25.003	13.98	21.928	13.41	45.394	16.57	45.920	16.62
			iPA	0.764	-1.17	1.406	1.48	0.785	-1.05	2.128	3.28	2.094	3.21

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: BCGA3358**. 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.: DJ2JYJGRQW, K06VM2HQYR, H9HHEN0003H0000X4E, H9HHEL0009D0000X4D

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.

BDR/LE/HDR/HDRPS/ XHDRPM/HDRPM/ HDT		HDRPL	
Band 1	Band 3	Band 1	Band 3
Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)
5162	5733	5164	5733
:	:	:	:
5203	5788	5203	5788
:	:	:	:
5245	5844	5242	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:

TxBF Primary = Antenna WF5B + Antenna 4a

TxBF Diversity = Antenna 4a + Antenna 2a

BT Modes		Antenna WF5B		Antenna 4a		Antenna 2a		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	76.401	1.169	76.454	1.166	76.296	1.175	76.261	1.177
	iPA	76.296	1.175	76.401	1.169	76.454	1.166	76.296	1.175	76.261	1.177
LE1M	ePA	84.625	0.725	84.840	0.714	84.840	0.714	84.840	0.714	84.859	0.713
	iPA	84.625	0.725	84.840	0.714	84.840	0.714	84.840	0.714	84.859	0.713
LE2M	ePA	56.781	2.458	56.794	2.457	56.794	2.457	56.872	2.451	56.872	2.451
	iPA	56.781	2.458	56.794	2.457	56.794	2.457	56.872	2.451	56.872	2.451
HDR4	ePA	77.696	1.096	77.339	1.116	77.804	1.090	77.553	1.104	77.339	1.116
	iPA	77.696	1.096	77.339	1.116	77.804	1.090	77.553	1.104	77.339	1.116
HDR8	ePA	77.911	1.084	77.750	1.093	77.804	1.090	77.750	1.093	77.804	1.090
	iPA	77.911	1.084	77.750	1.093	77.804	1.090	77.750	1.093	77.804	1.090
HDRPS2	ePA	92.449	0.341	92.215	0.352	92.427	0.342	91.981	0.363	91.981	0.363
	iPA	92.449	0.341	92.215	0.352	92.427	0.342	91.981	0.363	91.981	0.363
XHDRPS2	ePA	98.084	0.084	98.311	0.074	98.810	0.052	98.560	0.063	100.000	0.000
	iPA	98.084	0.084	98.311	0.074	98.810	0.052	98.560	0.063	100.000	0.000
XHDRPM6	ePA	86.238	0.643	86.080	0.651	86.636	0.623	86.080	0.651	86.636	0.623
	iPA	86.238	0.643	86.080	0.651	86.636	0.623	86.080	0.651	86.636	0.623
XHDRPM8	ePA	92.024	0.361	92.172	0.354	92.045	0.360	92.257	0.350	91.960	0.364
	iPA	92.024	0.361	92.172	0.354	92.045	0.360	92.257	0.350	91.960	0.364
HDRPM16	ePA	89.784	0.468	89.598	0.477	89.598	0.477	89.784	0.468	89.331	0.490
	iPA	89.784	0.468	89.598	0.477	89.598	0.477	89.784	0.468	89.331	0.490
XHDRPM16	ePA	87.640	0.573	87.781	0.566	87.519	0.579	87.317	0.589	87.519	0.579
	iPA	87.640	0.573	87.781	0.566	87.519	0.579	87.317	0.589	87.519	0.579
HDRPL12	ePA	89.640	0.475	89.867	0.464	90.323	0.442	89.888	0.463	89.681	0.473
	iPA	89.640	0.475	89.867	0.464	90.323	0.442	89.888	0.463	89.681	0.473
XHDRPL16	ePA	94.602	0.241	95.017	0.222	95.082	0.219	95.017	0.222	95.017	0.222
	iPA	94.602	0.241	95.017	0.222	95.082	0.219	95.017	0.222	95.017	0.222
HDRPL32	ePA	88.675	0.522	88.288	0.541	88.410	0.535	88.389	0.536	88.288	0.541
	iPA	88.675	0.522	88.288	0.541	88.410	0.535	88.389	0.536	88.288	0.541
XHDRPL32	ePA	85.605	0.675	85.310	0.690	85.724	0.669	85.803	0.665	85.724	0.669
	iPA	85.605	0.675	85.310	0.690	85.724	0.669	85.803	0.665	85.724	0.669
HDT2	ePA	95.719	0.190	96.161	0.170	96.316	0.163	95.719	0.190	96.161	0.170
	iPA	95.719	0.190	96.161	0.170	96.316	0.163	95.719	0.190	96.161	0.170
HDT8	ePA	89.002	0.506	89.002	0.506	88.941	0.509	88.777	0.517	88.654	0.523
	iPA	89.002	0.506	89.002	0.506	88.941	0.509	88.777	0.517	88.654	0.523

Table 2-3. Measured Duty Cycles

FCC ID: BCGA3358	 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	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 4a	Config 1	✓	✗	✗	✗	✓	✗	✗	✗	✗
Ant 4a	Config 2	✓	✗	✗	✗	✗	✓	✗	✗	✗
Ant 4a	Config 3	✗	✓	✗	✗	✓	✗	✗	✗	✗
Ant 4a	Config 4	✗	✓	✗	✗	✗	✓	✗	✗	✗
Ant 4a	Config 5	✗	✗	✓	✓	✗	✗	✗	✗	✗
Ant 4a	Config 6	✗	✗	✓	✗	✓	✗	✗	✗	✗
Ant 4a	Config 7	✗	✗	✓	✗	✗	✓	✗	✗	✗
Ant 2a	Config 8	✓	✗	✗	✗	✓	✗	✗	✗	✗
Ant 2a	Config 9	✓	✗	✗	✗	✗	✓	✗	✗	✗
Ant 2a	Config 10	✗	✓	✗	✗	✓	✗	✗	✗	✗
Ant 2a	Config 11	✗	✓	✗	✗	✗	✓	✗	✗	✗
Ant 2a	Config 12	✗	✗	✓	✓	✗	✗	✗	✗	✗
Ant 2a	Config 13	✗	✗	✓	✗	✓	✗	✗	✗	✗
Ant 2a	Config 14	✗	✗	✓	✗	✗	✓	✗	✗	✗

Table 2-4. Simultaneous Transmission Configurations

✓ = Support; ✗ = Not Support

Note:

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

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2.3 Antenna Description

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

Frequency [GHz]	Antenna Gain (dBi)		
	Antenna WF5B	Antenna 4a	Antenna 2a
5162 - 5245	3.4	-0.9	-1.1
5733 – 5844	0.6	0.1	0.1

Table 2-5. Highest Antenna Gain

2.4 Test Support Equipment

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

Table 2-6. 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 Adapter was the worst case.

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

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

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

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

1. BDR
2. LE1M
3. HDR4

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2.6 Software and Firmware

The test was conducted with firmware version 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: BCGA3358

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. 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 have 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	0.820	1.107
5203	1.0	NB UNII BDR	ePA	0.821	1.108
5245	1.0	NB UNII BDR	ePA	0.821	1.108
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	2.030	2.511
5203	2.0	NB UNII LE2M	ePA	2.030	2.511
5245	2.0	NB UNII LE2M	ePA	2.031	2.511
5162	4.0	NB UNII HDR4	ePA	2.325	2.717
5203	4.0	NB UNII HDR4	ePA	2.323	2.712
5245	4.0	NB UNII HDR4	ePA	2.325	2.712
5162	8.0	NB UNII HDR8	ePA	4.621	5.310
5203	8.0	NB UNII HDR8	ePA	4.626	5.309
5245	8.0	NB UNII HDR8	ePA	4.611	5.307
5162	2.0	NB UNII HDRPS2	ePA	2.381	2.730
5203	2.0	NB UNII HDRPS2	ePA	2.371	2.691
5245	2.0	NB UNII HDRPS2	ePA	2.370	2.690
5162	6.0	NB UNII XHDRPM6	ePA	4.723	5.354
5203	6.0	NB UNII XHDRPM6	ePA	4.722	5.354
5245	6.0	NB UNII XHDRPM6	ePA	4.728	5.349
5162	16.0	NB UNII HDRPM16	ePA	4.681	5.282
5203	16.0	NB UNII HDRPM16	ePA	4.686	5.344
5245	16.0	NB UNII HDRPM16	ePA	4.669	5.285
5164	12.0	NB UNII HDRPL12	ePA	9.352	10.645
5203	12.0	NB UNII HDRPL12	ePA	9.355	10.628
5242	12.0	NB UNII HDRPL12	ePA	9.388	10.647
5164	32.0	NB UNII HDRPL32	ePA	9.282	10.541
5203	32.0	NB UNII HDRPL32	ePA	9.274	10.549
5242	32.0	NB UNII HDRPL32	ePA	9.281	10.537
5162	2.0	NB UNII HDT2	ePA	2.346	2.758
5203	2.0	NB UNII HDT2	ePA	2.346	2.761
5245	2.0	NB UNII HDT2	ePA	2.346	2.762
5162	4.0	NB UNII HDT4	ePA	2.356	2.778
5203	4.0	NB UNII HDT4	ePA	2.356	2.776
5245	4.0	NB UNII HDT4	ePA	2.355	2.779
5162	6.0	NB UNII HDT6	ePA	2.390	2.779
5203	6.0	NB UNII HDT6	ePA	2.390	2.779
5245	6.0	NB UNII HDT6	ePA	2.389	2.778

Table 7-2. Conducted BW Measurements Antenna WF5B

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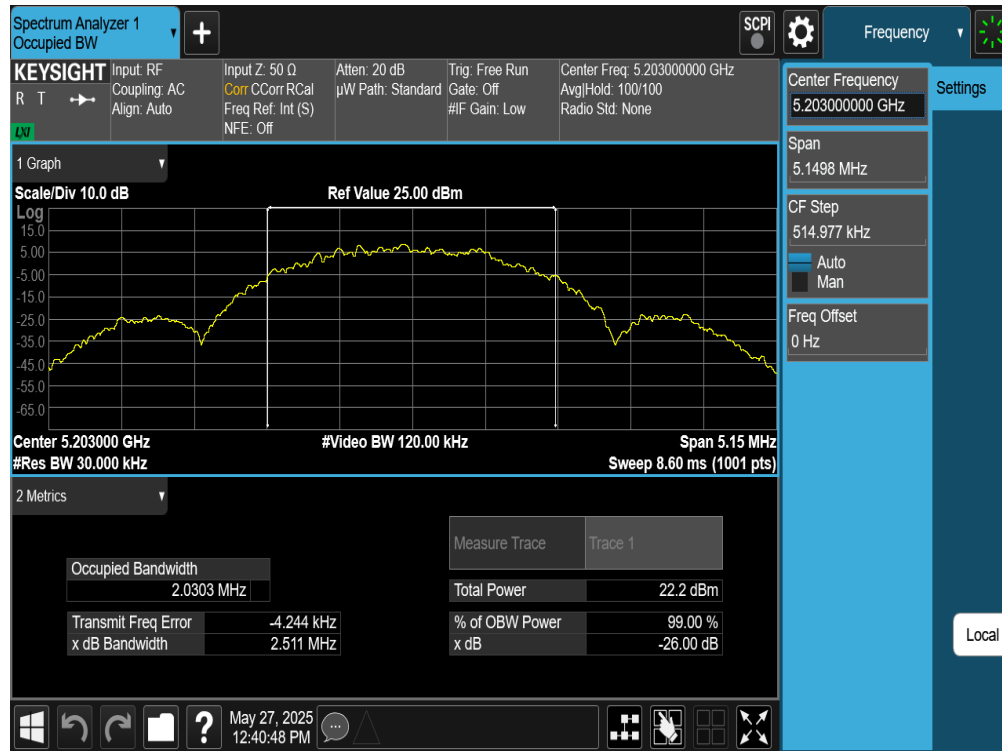
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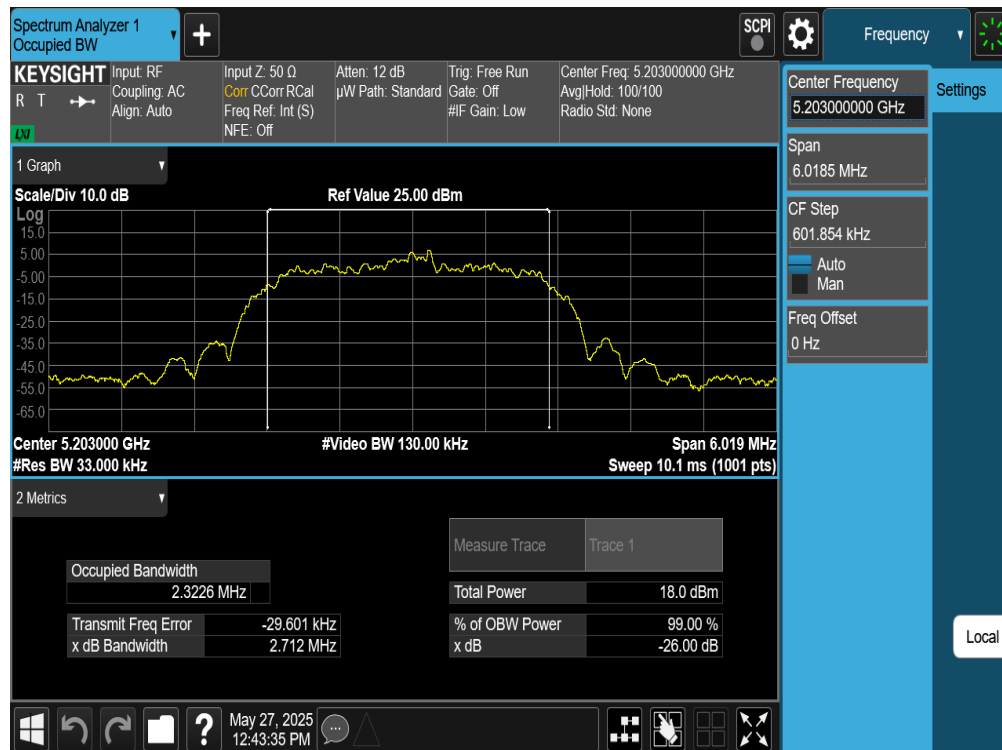
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Plot 7-3. 26dB BW & 99% OBW Antenna WF5B (NB UNII LE2M, ePA- 5203MHz)

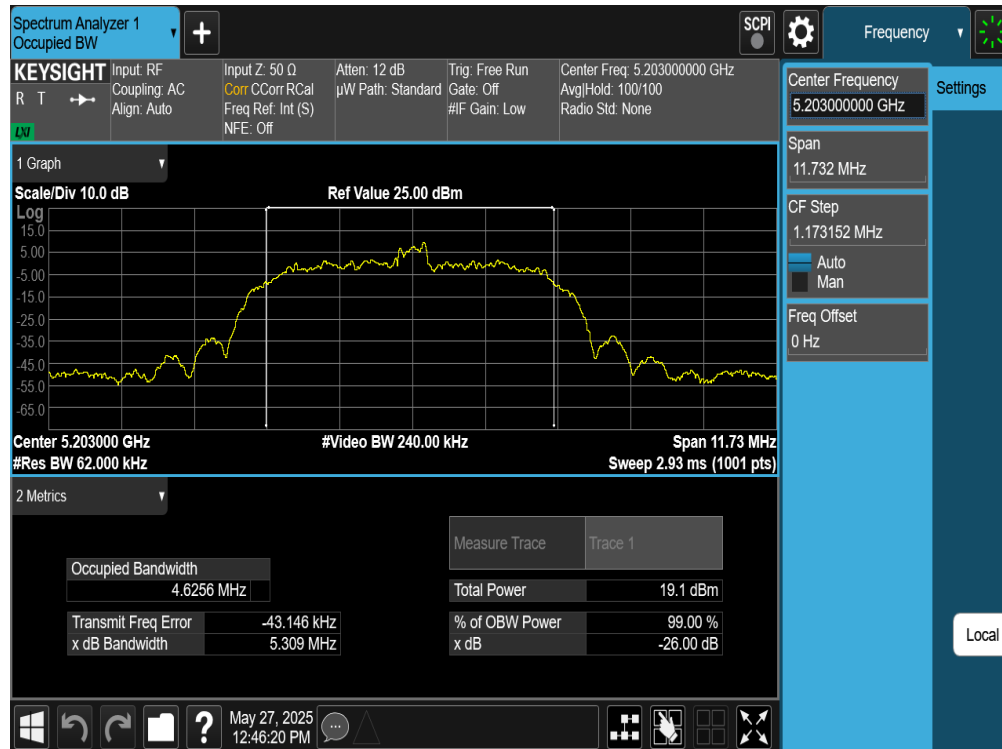


Plot 7-4. 26dB BW & 99% OBW Antenna WF5B (NB UNII HDR4, ePA- 5203MHz)

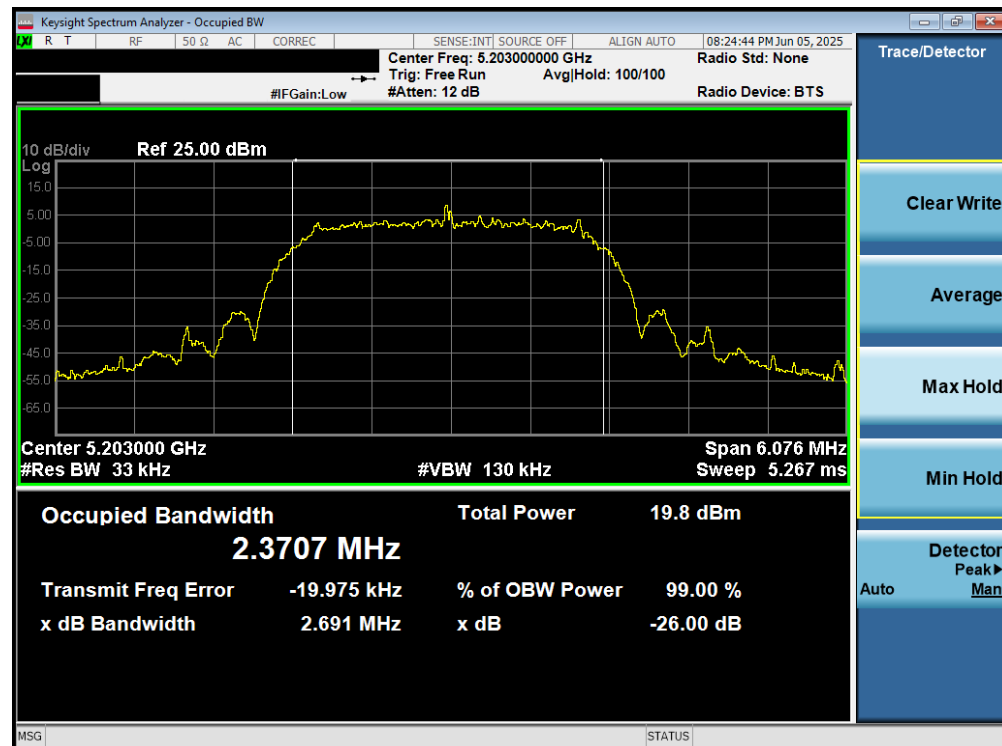
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Plot 7-5. 26dB BW & 99% OBW Antenna WF5B (NB UNII HDR8, ePA- 5203MHz)

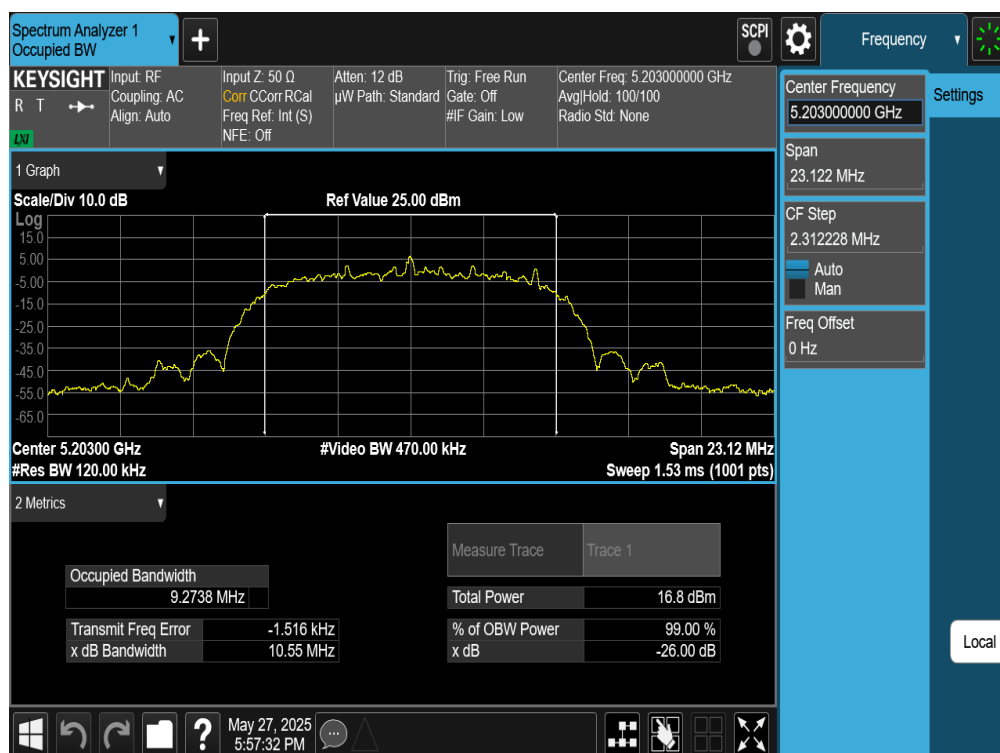
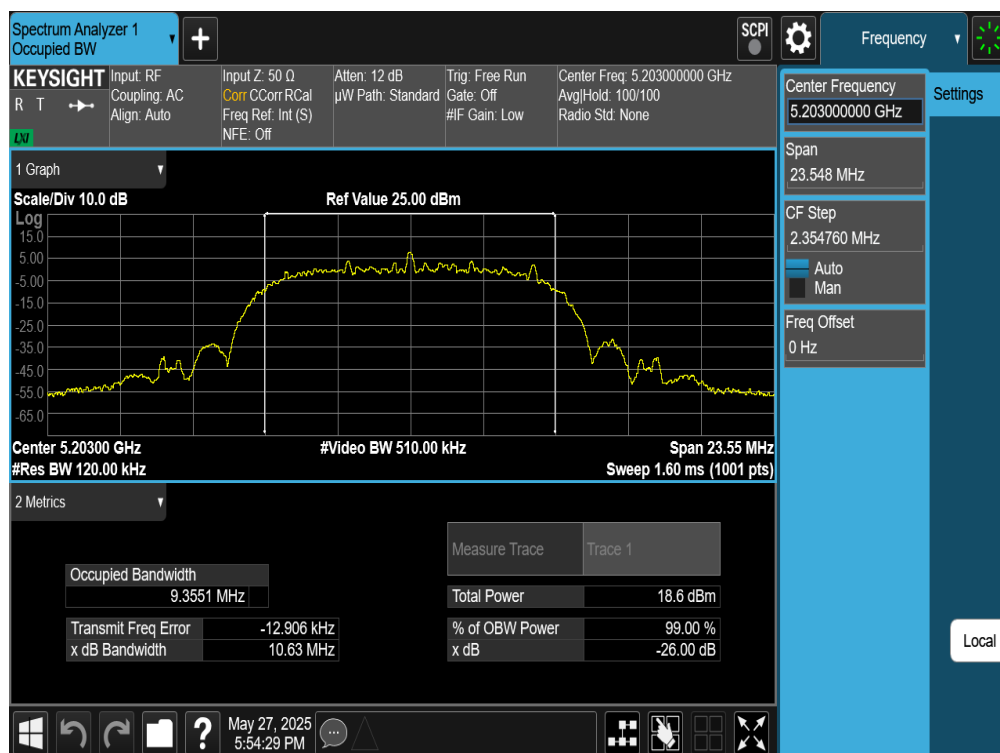


Plot 7-6. 26dB BW & 99% OBW Antenna WF5B (NB UNII HDRPS2, ePA- 5203MHz)

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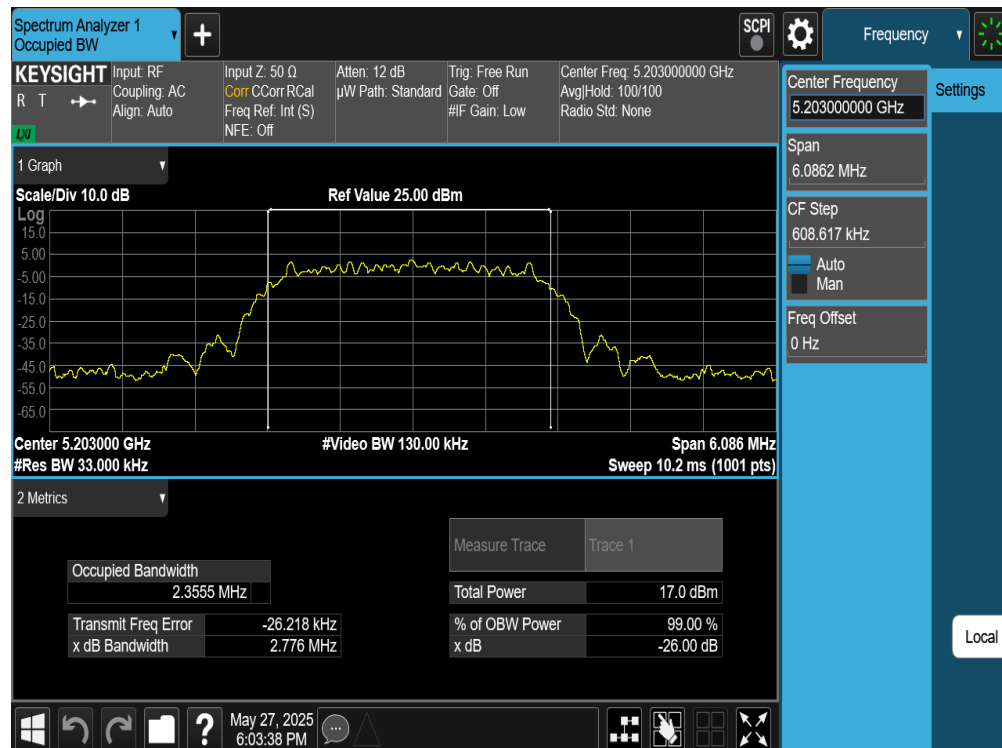
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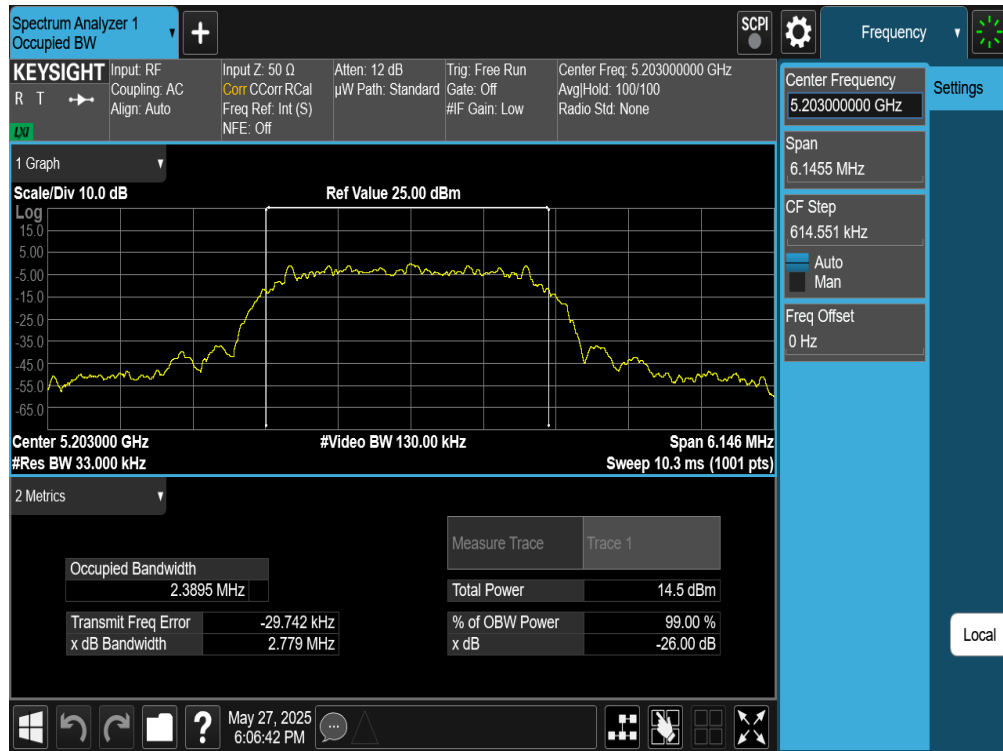
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Plot 7-13. 26dB BW & 99% OBW Antenna WF5B (NB UNII HDT6, ePA– 5203MHz)

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7.2.2 Antenna 4a 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	0.819	1.108
5203	1.0	NB UNII BDR	ePA	0.820	1.107
5245	1.0	NB UNII BDR	ePA	0.820	1.108
5162	1.0	NB UNII LE1M	ePA	1.016	1.261
5203	1.0	NB UNII LE1M	ePA	1.015	1.261
5245	1.0	NB UNII LE1M	ePA	1.015	1.262
5162	2.0	NB UNII LE2M	ePA	2.031	2.511
5203	2.0	NB UNII LE2M	ePA	2.031	2.512
5245	2.0	NB UNII LE2M	ePA	2.031	2.512
5162	4.0	NB UNII HDR4	ePA	2.323	2.712
5203	4.0	NB UNII HDR4	ePA	2.323	2.711
5245	4.0	NB UNII HDR4	ePA	2.325	2.714
5162	8.0	NB UNII HDR8	ePA	4.617	5.308
5203	8.0	NB UNII HDR8	ePA	4.615	5.308
5245	8.0	NB UNII HDR8	ePA	4.614	5.312
5162	2.0	NB UNII HDRPS2	ePA	2.370	2.702
5203	2.0	NB UNII HDRPS2	ePA	2.370	2.683
5245	2.0	NB UNII HDRPS2	ePA	2.371	2.681
5162	6.0	NB UNII XHDRPM6	ePA	4.731	5.379
5203	6.0	NB UNII XHDRPM6	ePA	4.743	5.490
5245	6.0	NB UNII XHDRPM6	ePA	4.729	5.423
5162	16.0	NB UNII HDRPM16	ePA	4.683	5.366
5203	16.0	NB UNII HDRPM16	ePA	4.676	5.303
5245	16.0	NB UNII HDRPM16	ePA	4.683	5.305
5164	12.0	NB UNII HDRPL12	ePA	9.315	10.652
5203	12.0	NB UNII HDRPL12	ePA	9.335	10.627
5242	12.0	NB UNII HDRPL12	ePA	9.354	10.641
5164	32.0	NB UNII HDRPL32	ePA	9.277	10.590
5203	32.0	NB UNII HDRPL32	ePA	9.262	10.591
5242	32.0	NB UNII HDRPL32	ePA	9.276	10.561
5162	2.0	NB UNII HDT2	ePA	2.346	2.761
5203	2.0	NB UNII HDT2	ePA	2.346	2.760
5245	2.0	NB UNII HDT2	ePA	2.345	2.760
5162	4.0	NB UNII HDT4	ePA	2.355	2.777
5203	4.0	NB UNII HDT4	ePA	2.355	2.776
5245	4.0	NB UNII HDT4	ePA	2.355	2.777
5162	6.0	NB UNII HDT6	ePA	2.390	2.782
5203	6.0	NB UNII HDT6	ePA	2.390	2.783
5245	6.0	NB UNII HDT6	ePA	2.389	2.782

Table 7-3. Conducted BW Measurements Antenna 4a

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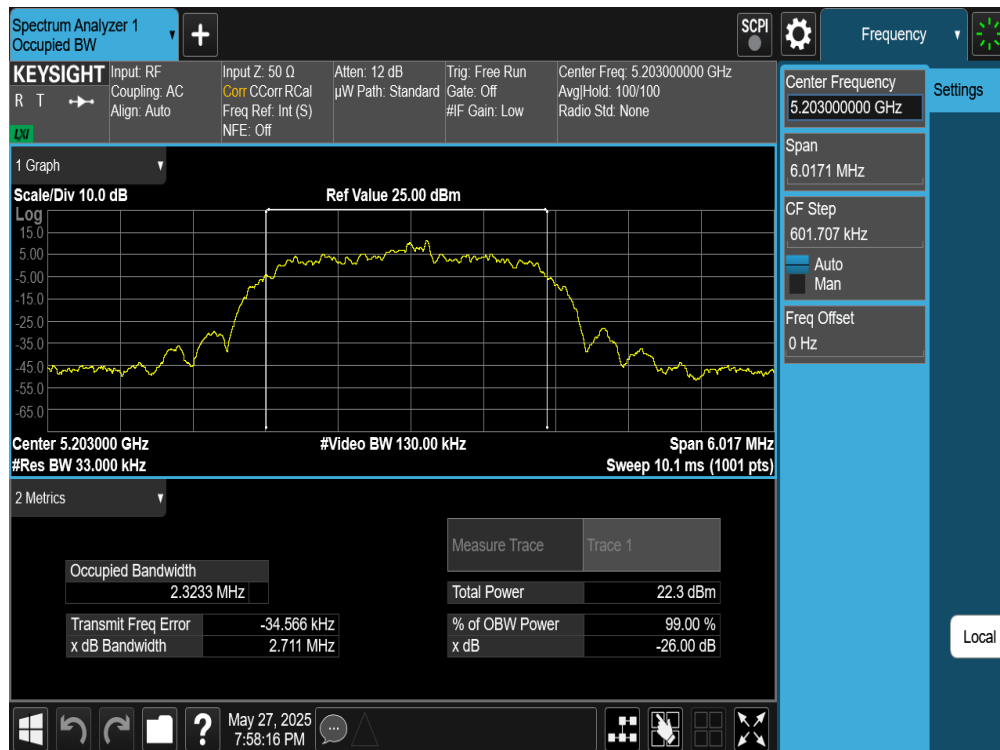
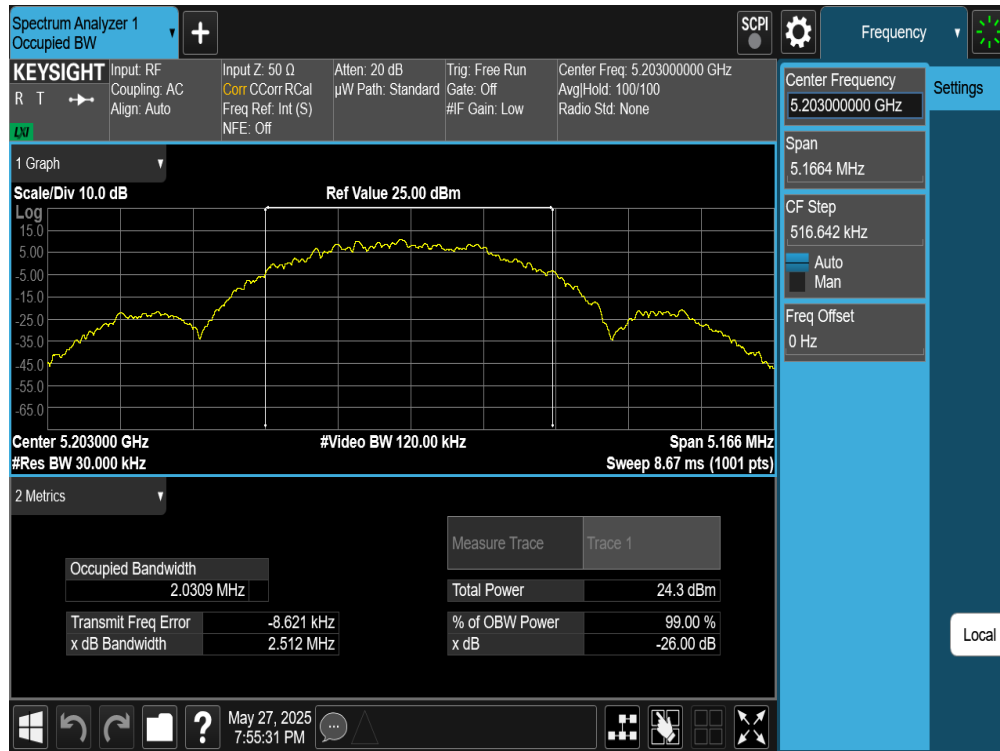
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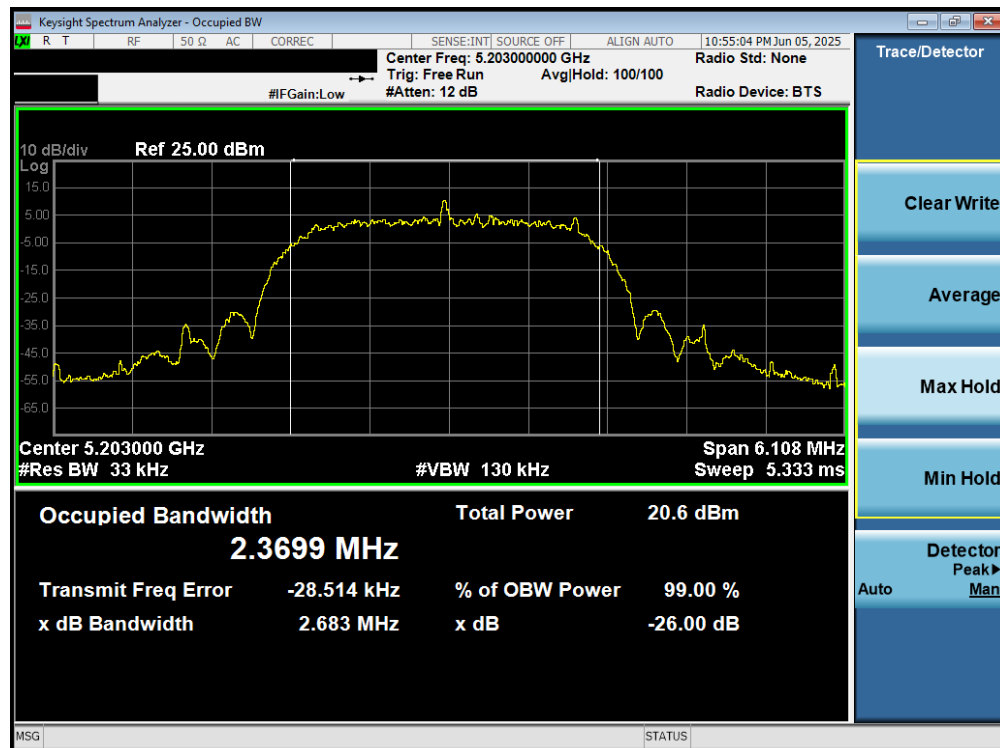
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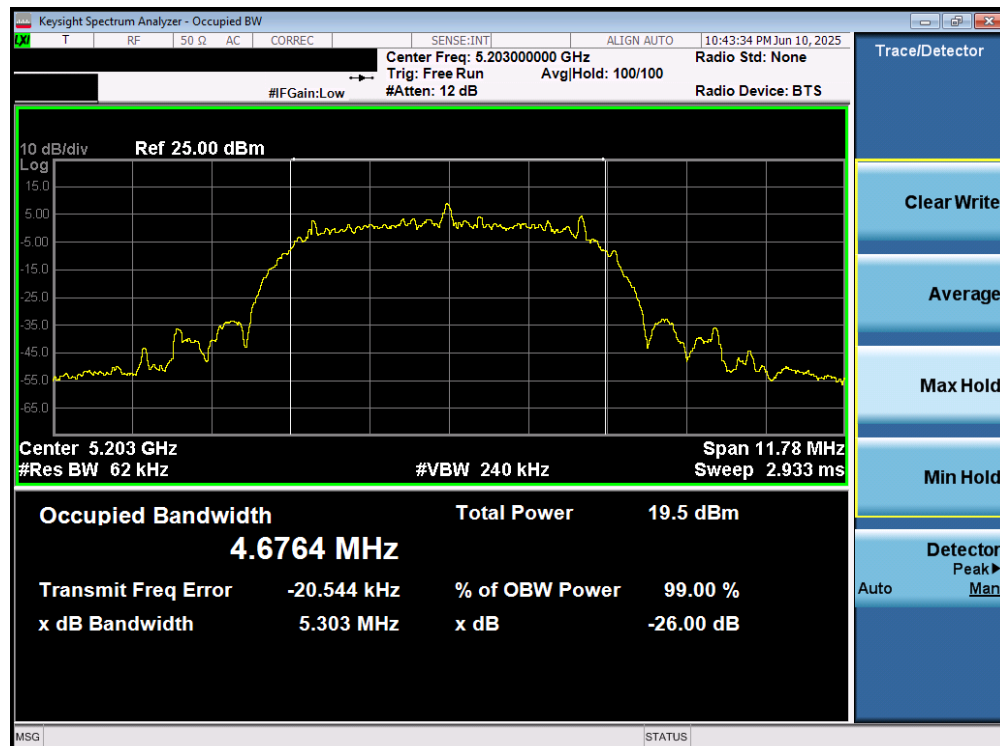
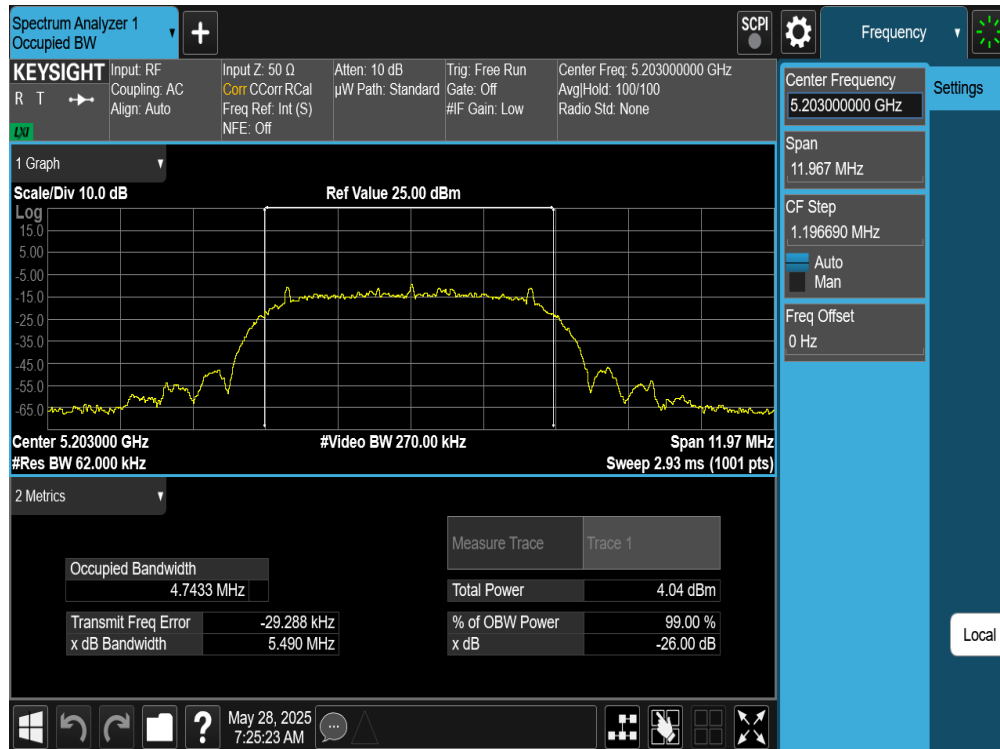


FCC ID: BCGA3358		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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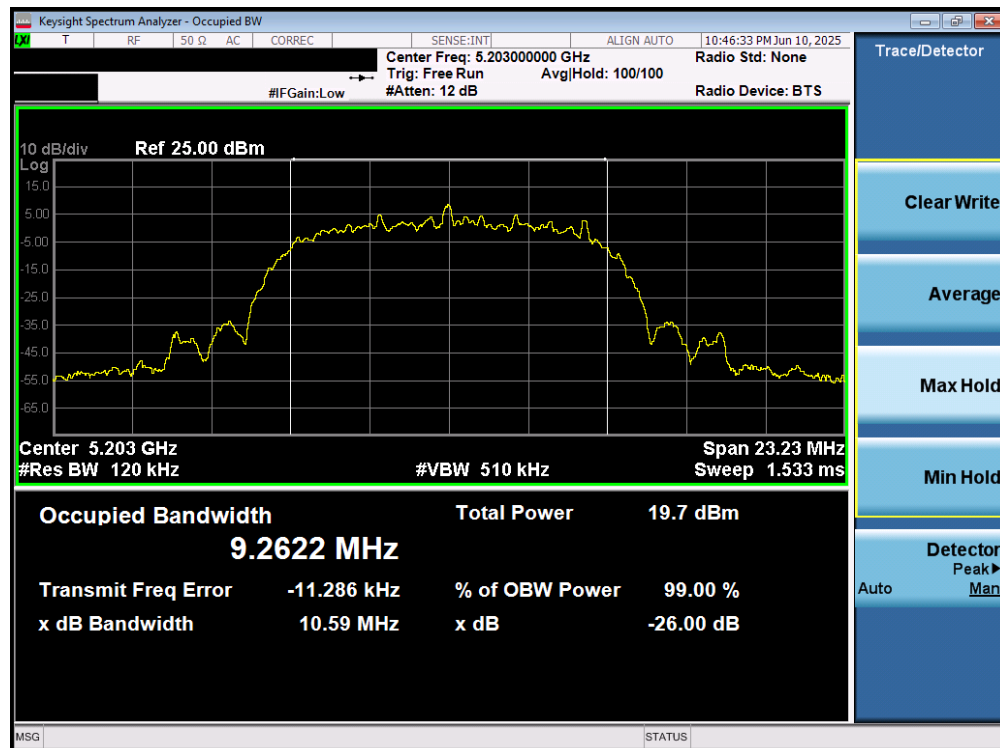
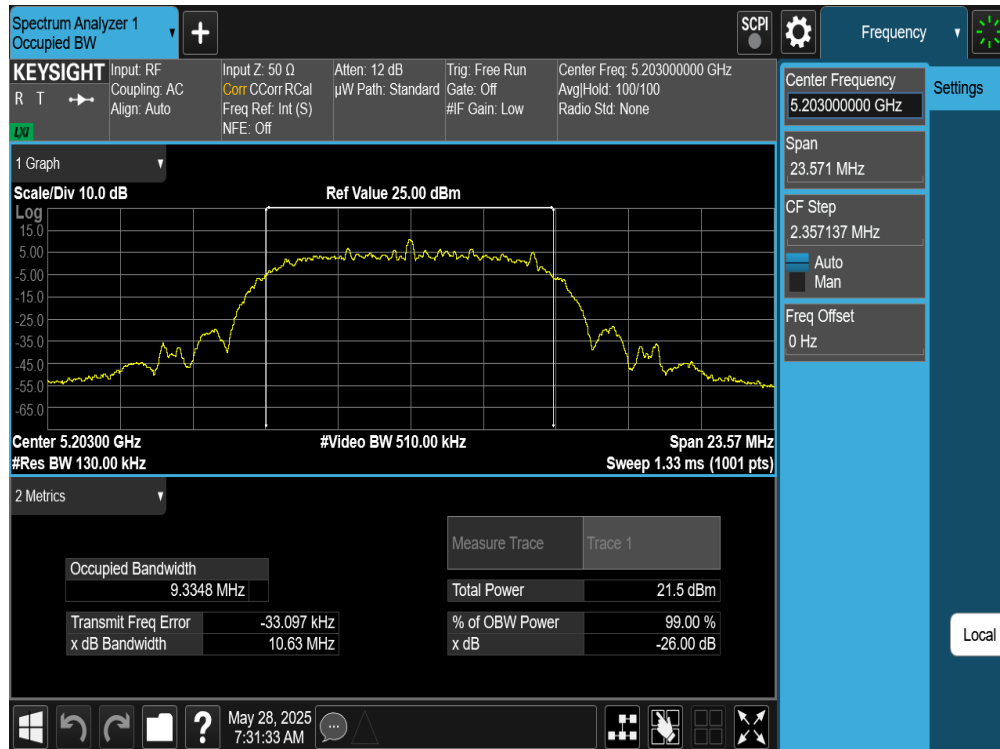




FCC ID: BCGA3358		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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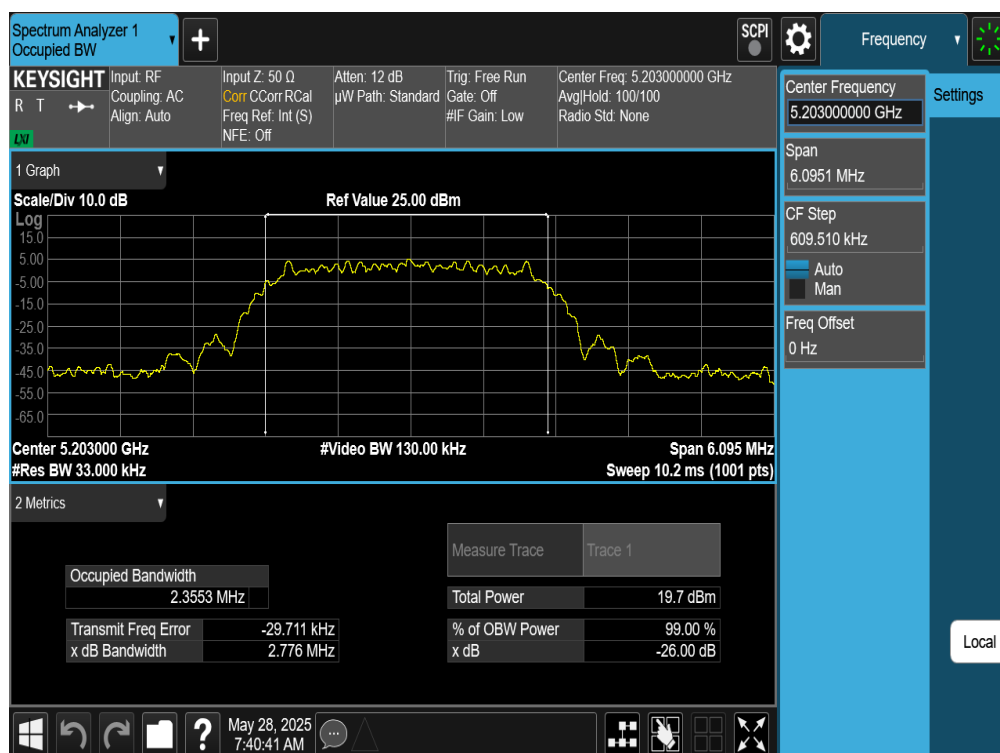
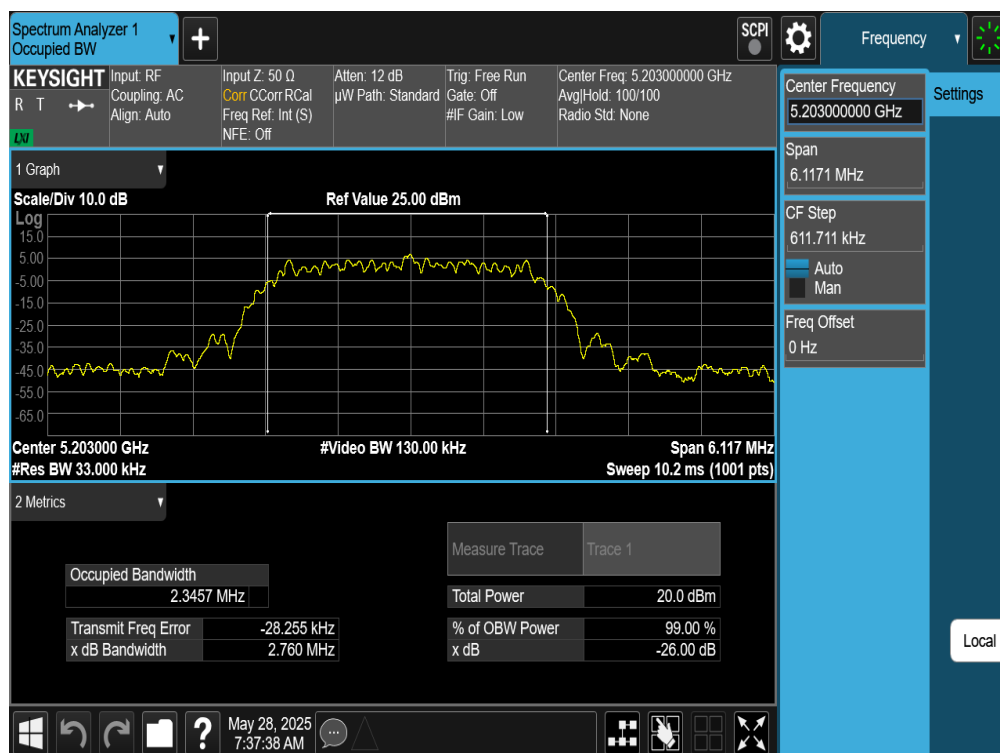
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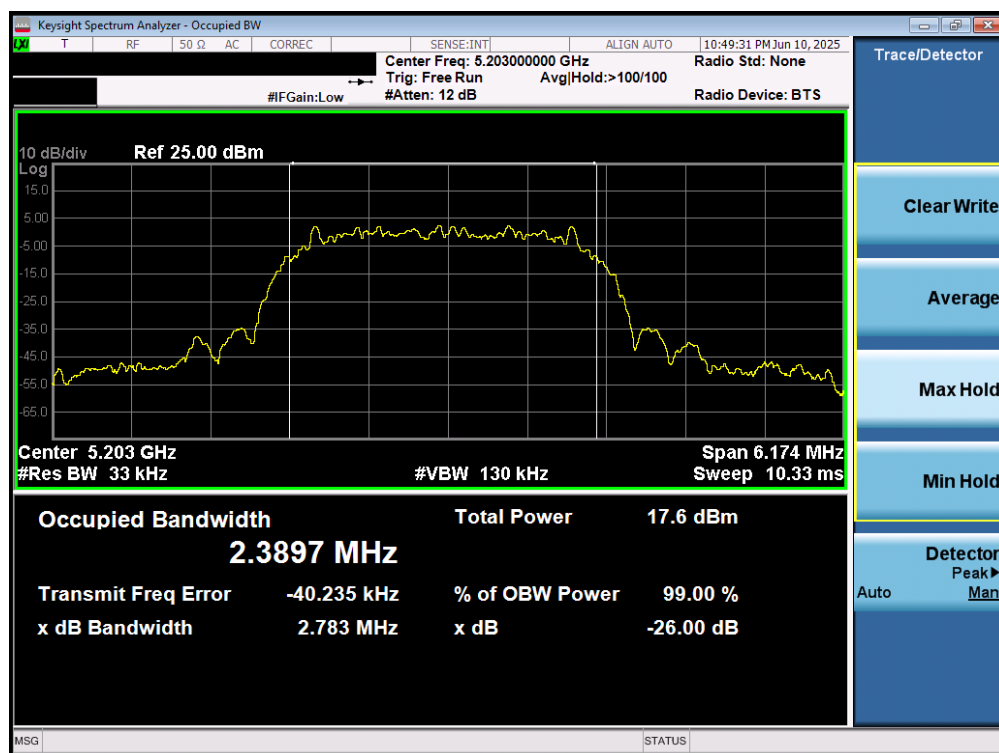
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Plot 7-26. 26dB BW & 99% OBW Antenna 4a (NB UNII HDT6, ePA- 5203MHz)

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7.2.3 Antenna 2a 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	0.819	1.109
5203	1.0	NB UNII BDR	ePA	0.821	1.107
5245	1.0	NB UNII BDR	ePA	0.820	1.108
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	1.262
5162	2.0	NB UNII LE2M	ePA	2.031	2.513
5203	2.0	NB UNII LE2M	ePA	2.031	2.512
5245	2.0	NB UNII LE2M	ePA	2.031	2.512
5162	4.0	NB UNII HDR4	ePA	2.323	2.706
5203	4.0	NB UNII HDR4	ePA	2.324	2.711
5245	4.0	NB UNII HDR4	ePA	2.324	2.712
5162	8.0	NB UNII HDR8	ePA	4.609	5.309
5203	8.0	NB UNII HDR8	ePA	4.619	5.305
5245	8.0	NB UNII HDR8	ePA	4.620	5.304
5162	2.0	NB UNII HDRPS2	ePA	2.369	2.684
5203	2.0	NB UNII HDRPS2	ePA	2.387	2.768
5245	2.0	NB UNII HDRPS2	ePA	2.369	2.685
5162	6.0	NB UNII XHDRPM6	ePA	4.716	5.369
5203	6.0	NB UNII XHDRPM6	ePA	4.706	5.452
5245	6.0	NB UNII XHDRPM6	ePA	4.724	5.377
5162	16.0	NB UNII HDRPM16	ePA	4.674	5.334
5203	16.0	NB UNII HDRPM16	ePA	4.670	5.286
5245	16.0	NB UNII HDRPM16	ePA	4.665	5.286
5164	12.0	NB UNII HDRPL12	ePA	9.390	10.638
5203	12.0	NB UNII HDRPL12	ePA	9.347	10.653
5242	12.0	NB UNII HDRPL12	ePA	9.338	10.648
5164	32.0	NB UNII HDRPL32	ePA	9.263	10.546
5203	32.0	NB UNII HDRPL32	ePA	9.280	10.536
5242	32.0	NB UNII HDRPL32	ePA	9.279	10.536
5162	2.0	NB UNII HDT2	ePA	2.347	2.761
5203	2.0	NB UNII HDT2	ePA	2.346	2.760
5245	2.0	NB UNII HDT2	ePA	2.347	2.762
5162	4.0	NB UNII HDT4	ePA	2.356	2.780
5203	4.0	NB UNII HDT4	ePA	2.356	2.781
5245	4.0	NB UNII HDT4	ePA	2.356	2.781
5162	6.0	NB UNII HDT6	ePA	2.389	2.779
5203	6.0	NB UNII HDT6	ePA	2.389	2.779
5245	6.0	NB UNII HDT6	ePA	2.389	2.779

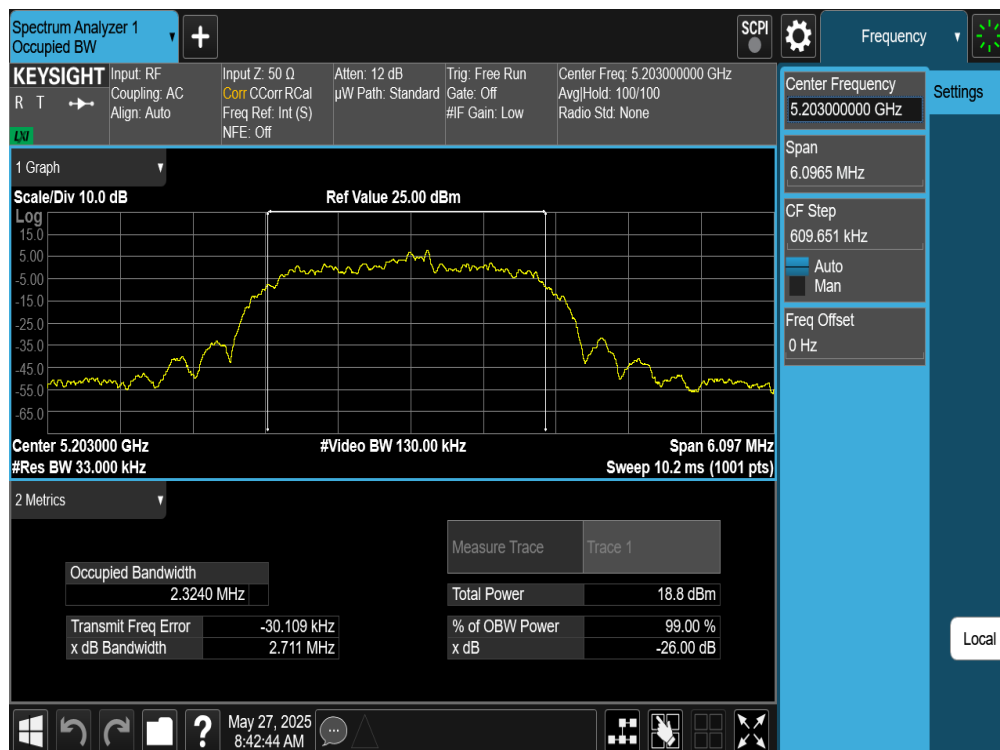
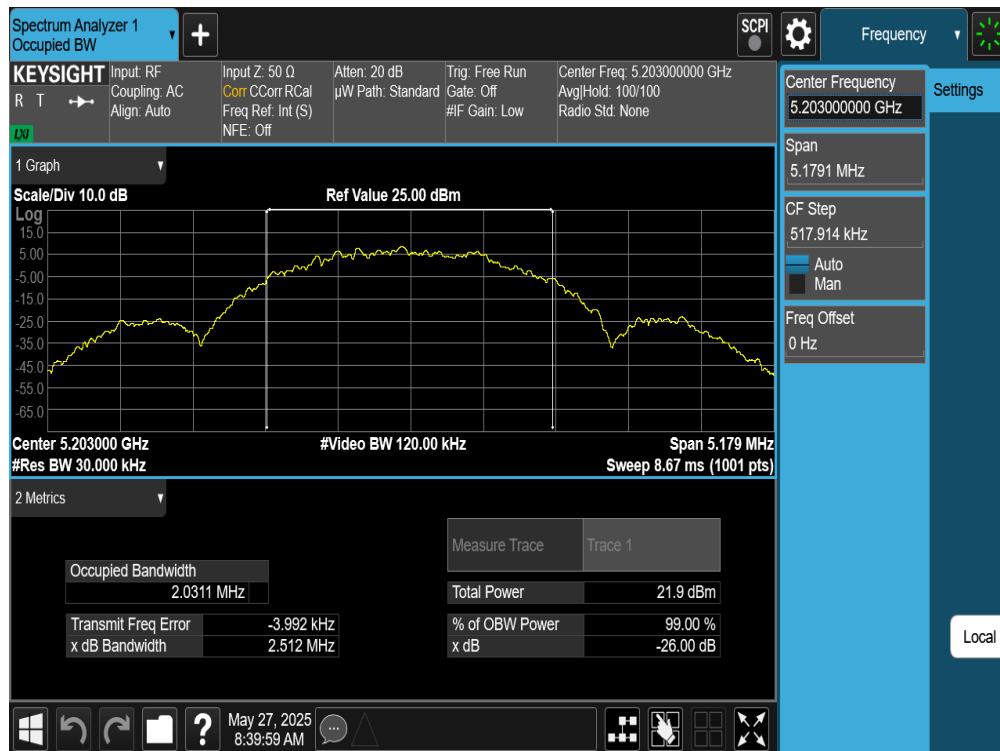
Table 7-4. Conducted BW Measurements Antenna 2a

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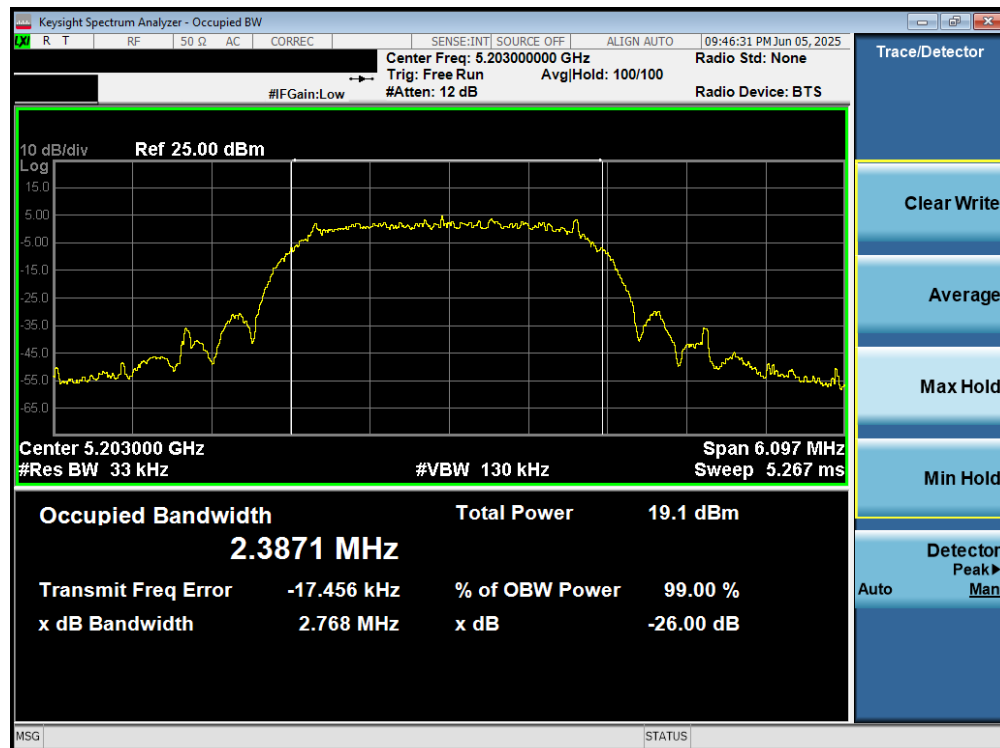
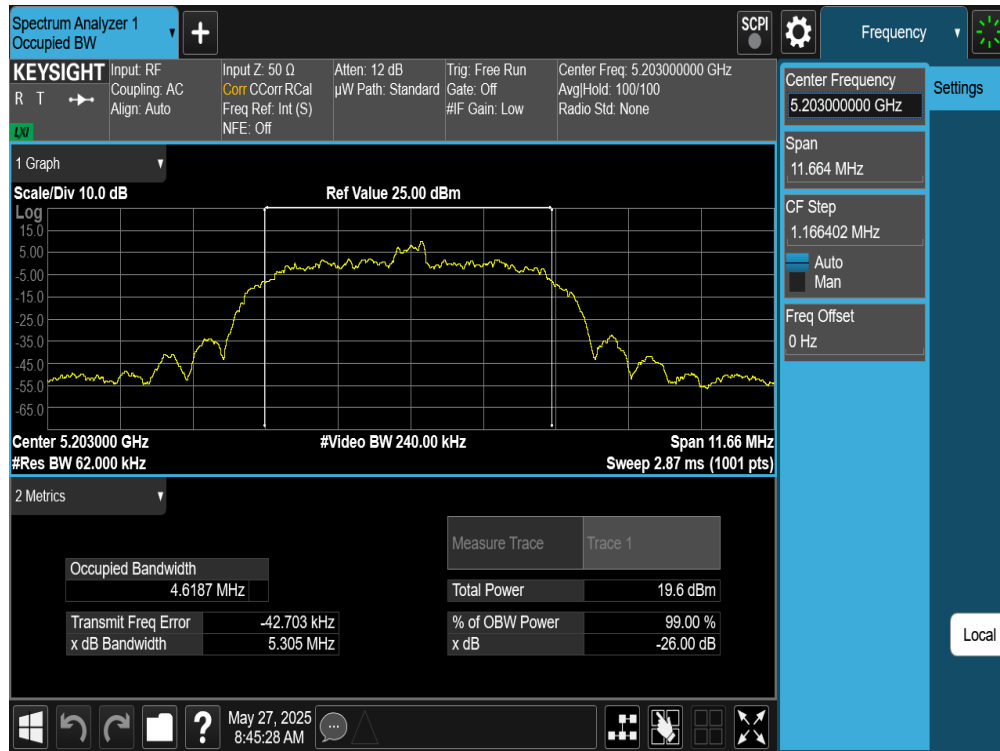




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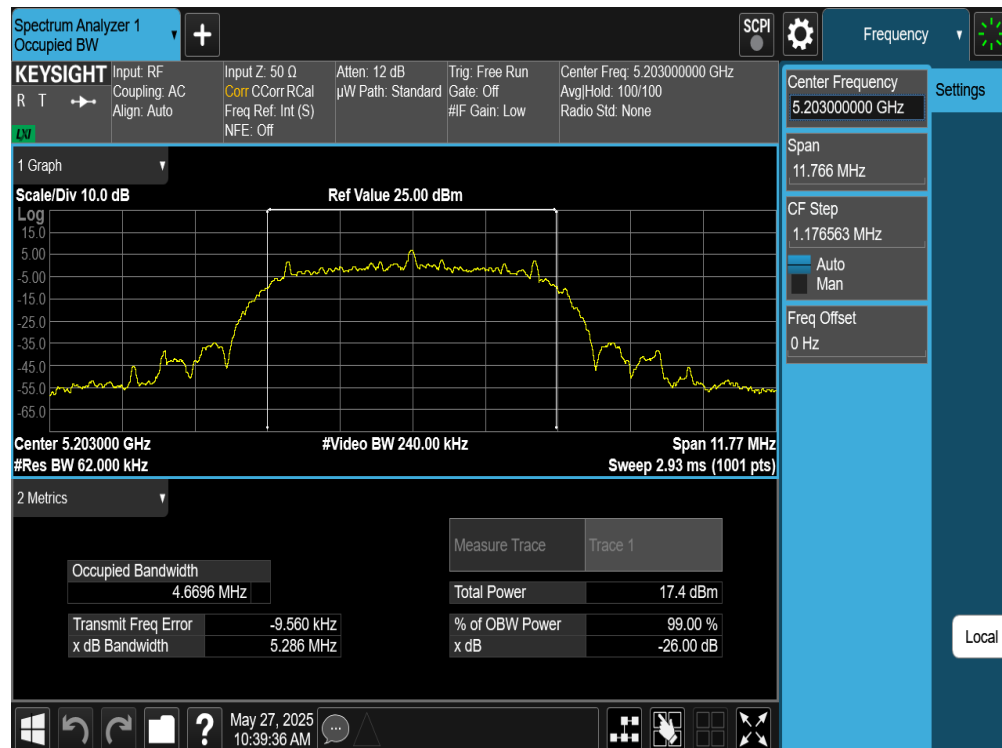
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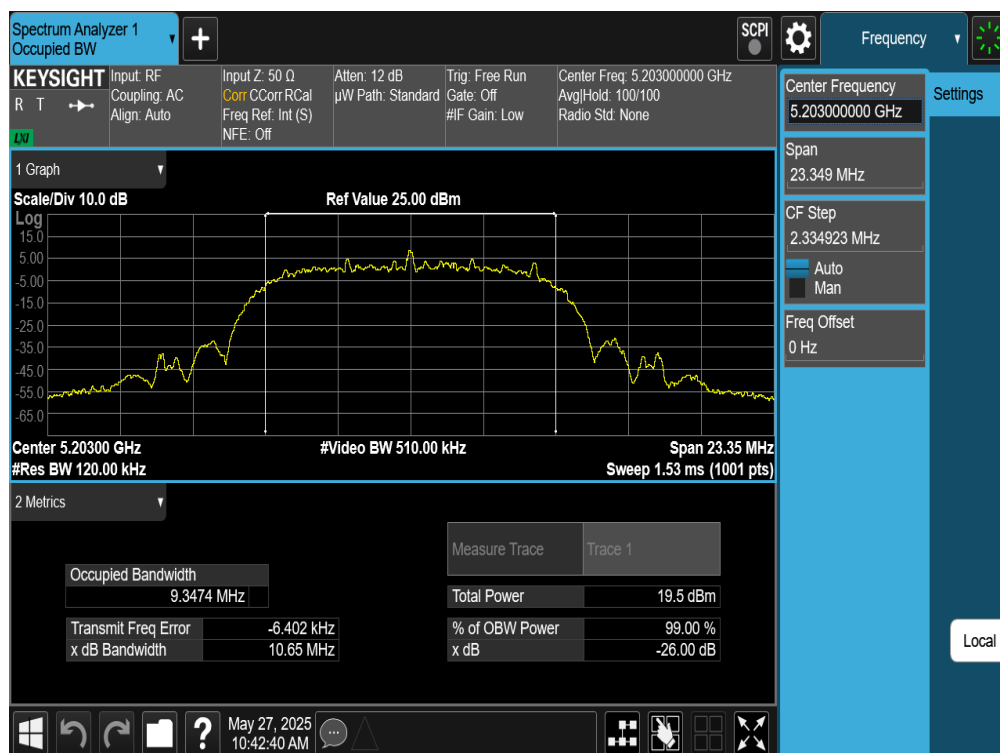
FCC ID: BCGA3358		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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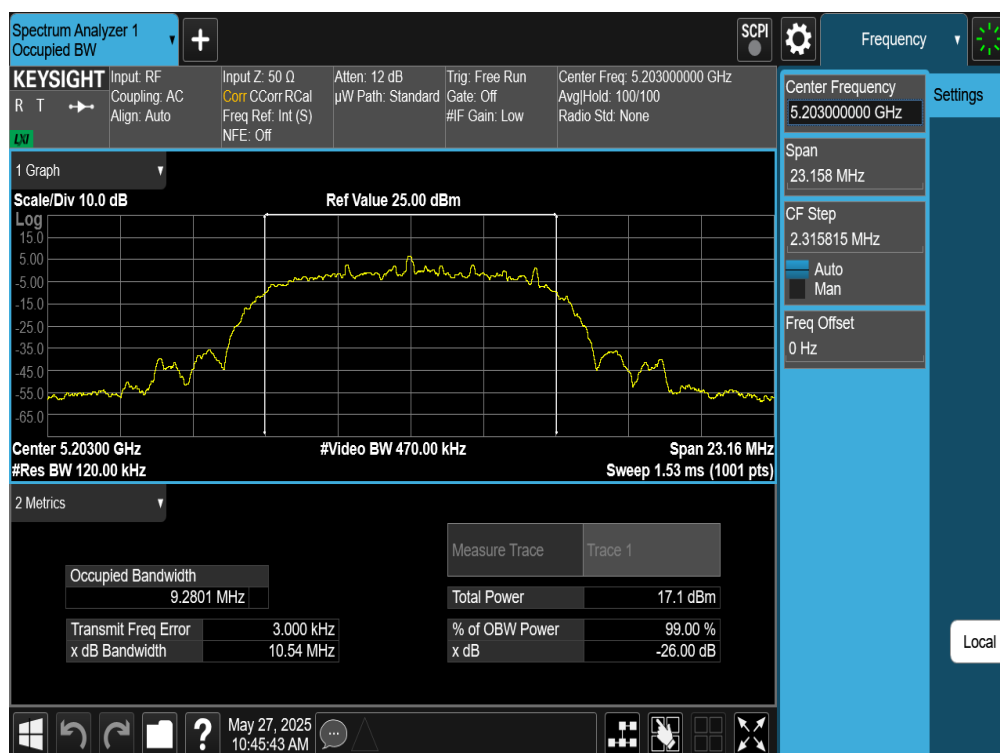
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Plot 7-35. 26dB BW & 99% OBW Antenna 2a (NB UNII HDRPL12, ePA- 5203MHz)

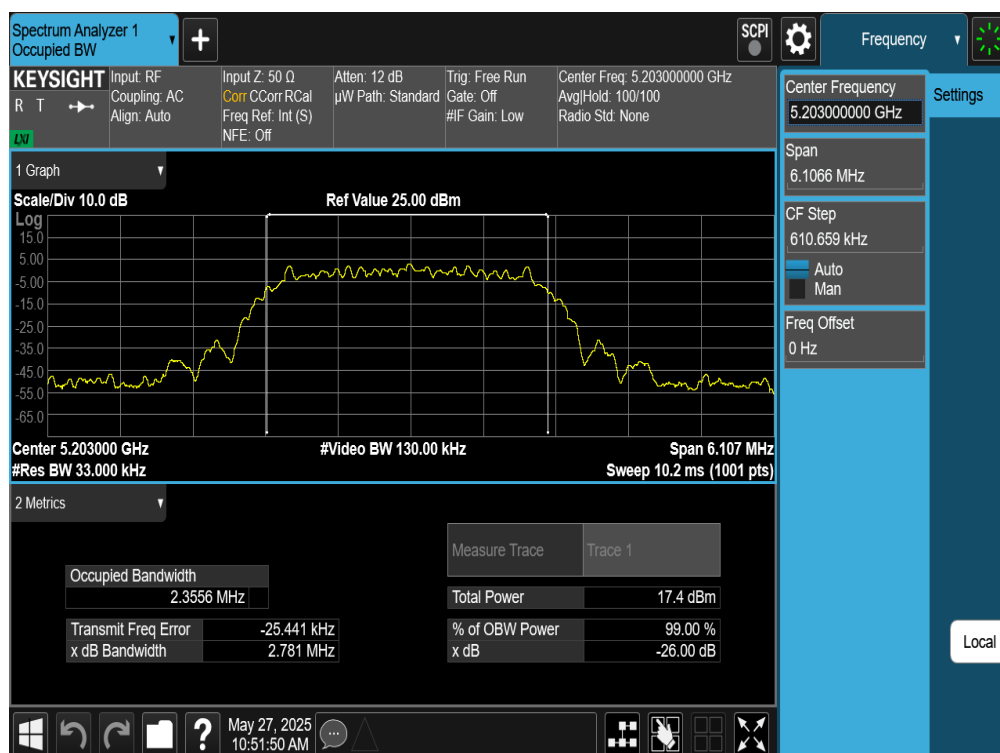


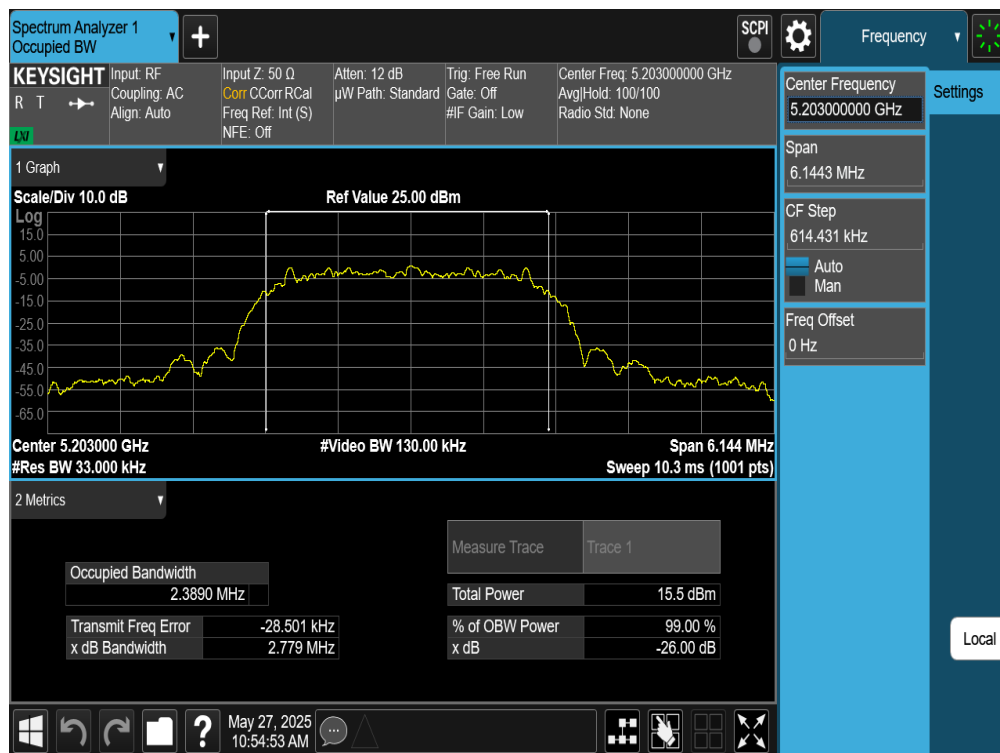
Plot 7-36. 26dB BW & 99% OBW Antenna 2a (NB UNII HDRPL32, ePA- 5203MHz)

FCC ID: BCGA3358		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-39. 26dB BW & 99% OBW Antenna 2a (NB UNII HDT6, 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 have been reported.

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7.3.1 Antenna WF5B 6dB & 99% Bandwidth Measurements (U-NII-3)

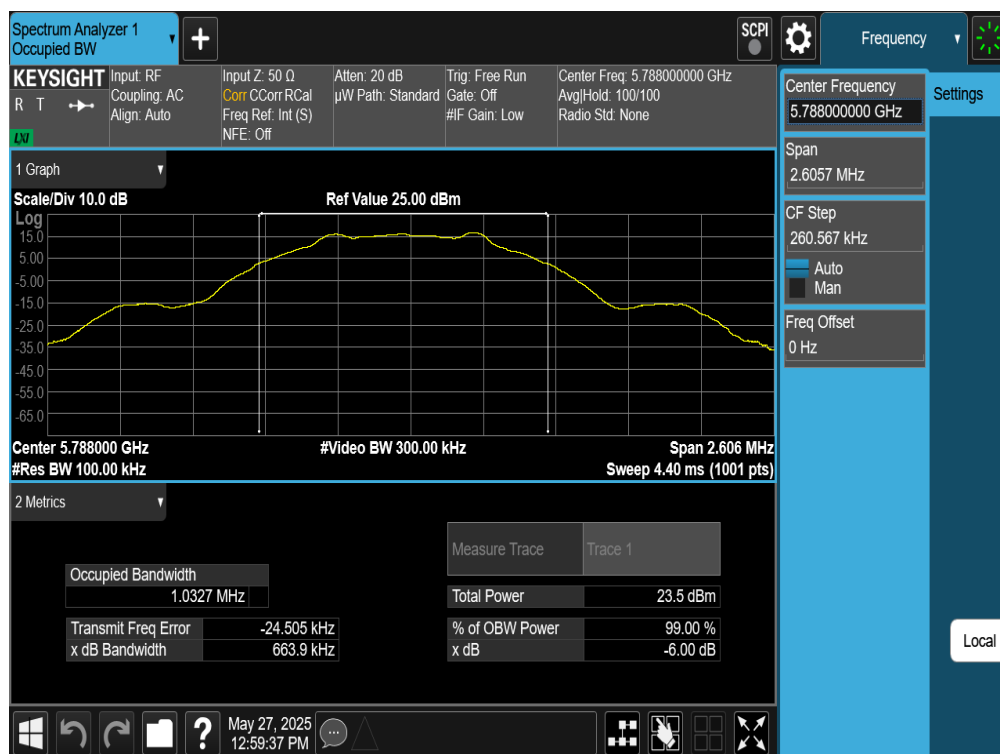
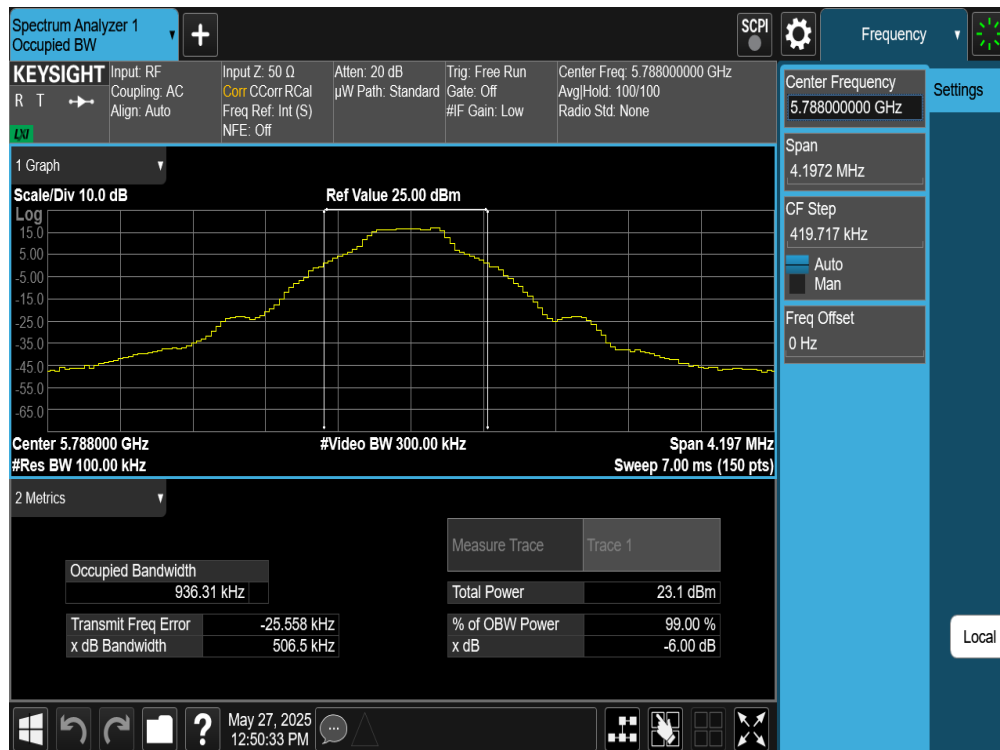
Frequency [MHz]	Data Rate [Mbps]	Mode	Power Scheme	Measured 99% Occupied Bandwidth [MHz]	Measured 6dB Bandwidth [MHz]	Minimum 6dB Bandwidth [MHz]	Pass / Fail
5733	1.0	NB UNII BDR	ePA	0.936	0.507	0.500	Pass
5788	1.0	NB UNII BDR	ePA	0.936	0.507	0.500	Pass
5844	1.0	NB UNII BDR	ePA	0.935	0.505	0.500	Pass
5733	1.0	NB UNII LE1M	ePA	1.032	0.665	0.500	Pass
5788	1.0	NB UNII LE1M	ePA	1.033	0.664	0.500	Pass
5844	1.0	NB UNII LE1M	ePA	1.033	0.664	0.500	Pass
5733	2.0	NB UNII LE2M	ePA	2.042	1.180	0.500	Pass
5788	2.0	NB UNII LE2M	ePA	2.043	1.181	0.500	Pass
5844	2.0	NB UNII LE2M	ePA	2.043	1.181	0.500	Pass
5733	4.0	NB UNII HDR4	ePA	2.344	1.576	0.500	Pass
5788	4.0	NB UNII HDR4	ePA	2.351	1.573	0.500	Pass
5844	4.0	NB UNII HDR4	ePA	2.350	1.577	0.500	Pass
5733	8.0	NB UNII HDR8	ePA	4.633	0.548	0.500	Pass
5788	8.0	NB UNII HDR8	ePA	4.645	0.875	0.500	Pass
5844	8.0	NB UNII HDR8	ePA	4.636	0.546	0.500	Pass
5733	2.0	NB UNII HDRPS2	ePA	2.374	2.094	0.500	Pass
5788	2.0	NB UNII HDRPS2	ePA	2.377	2.102	0.500	Pass
5844	2.0	NB UNII HDRPS2	ePA	2.374	2.091	0.500	Pass
5733	6.0	NB UNII XHDRPM6	ePA	4.697	4.055	0.500	Pass
5788	6.0	NB UNII XHDRPM6	ePA	4.725	4.067	0.500	Pass
5844	6.0	NB UNII XHDRPM6	ePA	4.707	4.077	0.500	Pass
5733	16.0	NB UNII HDRPM16	ePA	4.684	2.691	0.500	Pass
5788	16.0	NB UNII HDRPM16	ePA	4.709	4.062	0.500	Pass
5844	16.0	NB UNII HDRPM16	ePA	4.672	4.046	0.500	Pass
5733	12.0	NB UNII HDRPL12	ePA	9.351	6.109	0.500	Pass
5788	12.0	NB UNII HDRPL12	ePA	9.356	6.108	0.500	Pass
5844	12.0	NB UNII HDRPL12	ePA	9.363	6.109	0.500	Pass
5733	32.0	NB UNII HDRPL32	ePA	9.292	6.107	0.500	Pass
5788	32.0	NB UNII HDRPL32	ePA	9.286	6.111	0.500	Pass
5844	32.0	NB UNII HDRPL32	ePA	9.284	6.110	0.500	Pass
5733	2.0	NB UNII HDT2	ePA	2.401	2.075	0.500	Pass
5788	2.0	NB UNII HDT2	ePA	2.388	2.081	0.500	Pass
5844	2.0	NB UNII HDT2	ePA	2.388	2.081	0.500	Pass
5733	4.0	NB UNII HDT4	ePA	2.414	2.075	0.500	Pass
5788	4.0	NB UNII HDT4	ePA	2.397	2.082	0.500	Pass
5844	4.0	NB UNII HDT4	ePA	2.398	2.082	0.500	Pass
5733	6.0	NB UNII HDT6	ePA	2.395	2.083	0.500	Pass
5788	6.0	NB UNII HDT6	ePA	2.395	2.083	0.500	Pass
5844	6.0	NB UNII HDT6	ePA	2.395	2.083	0.500	Pass

Table 7-5. Conducted BW Measurements Antenna WF5B

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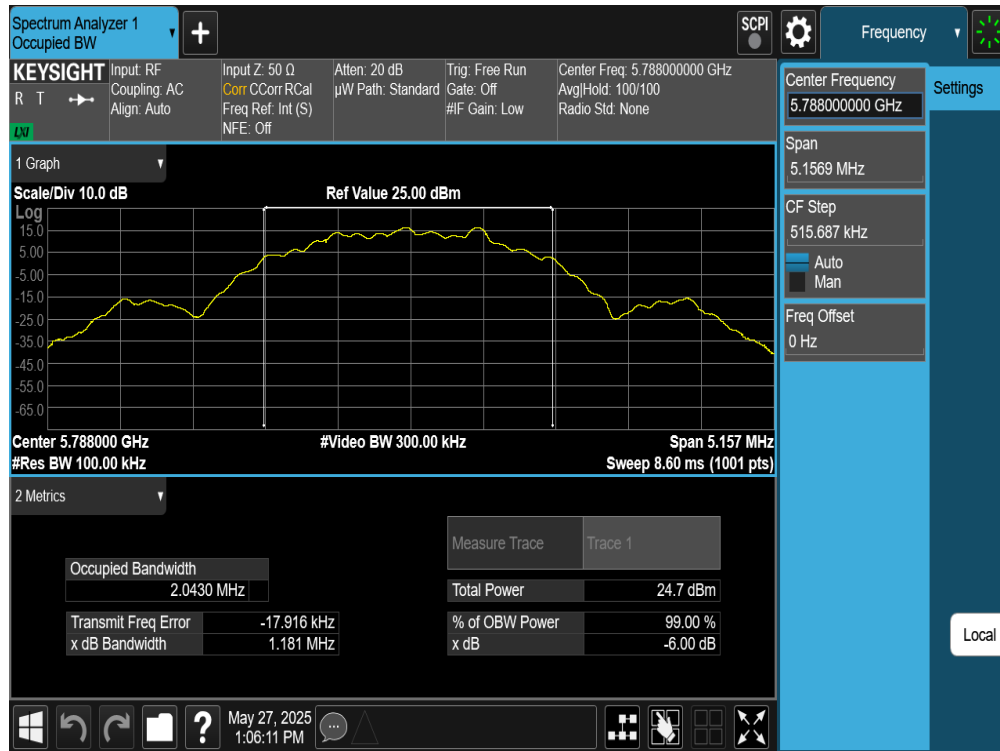
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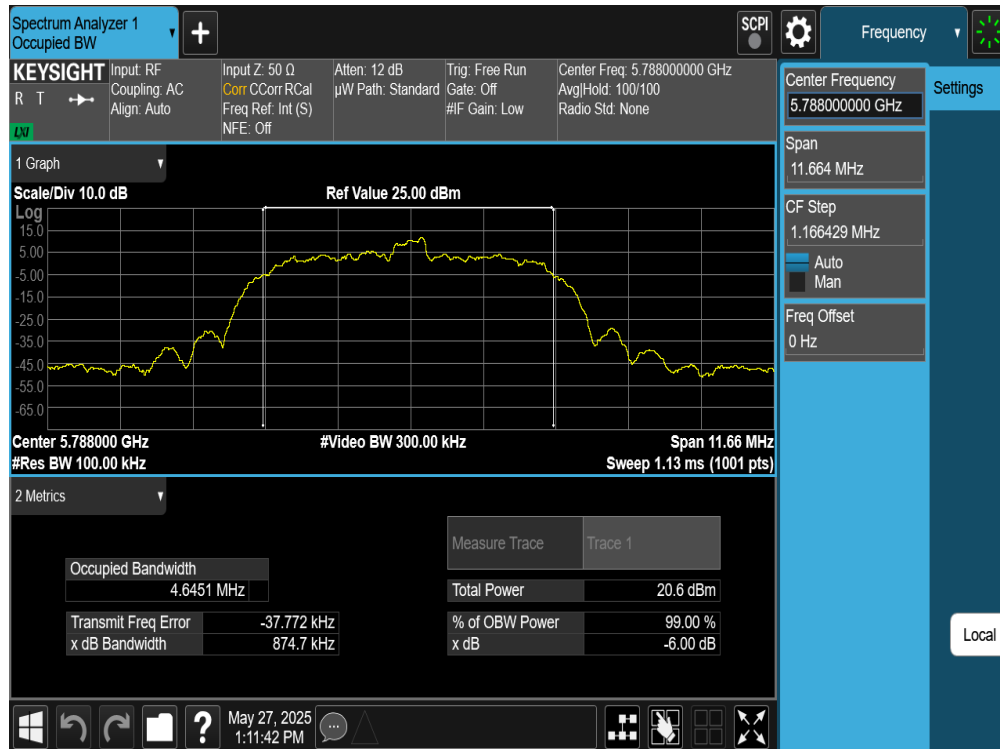
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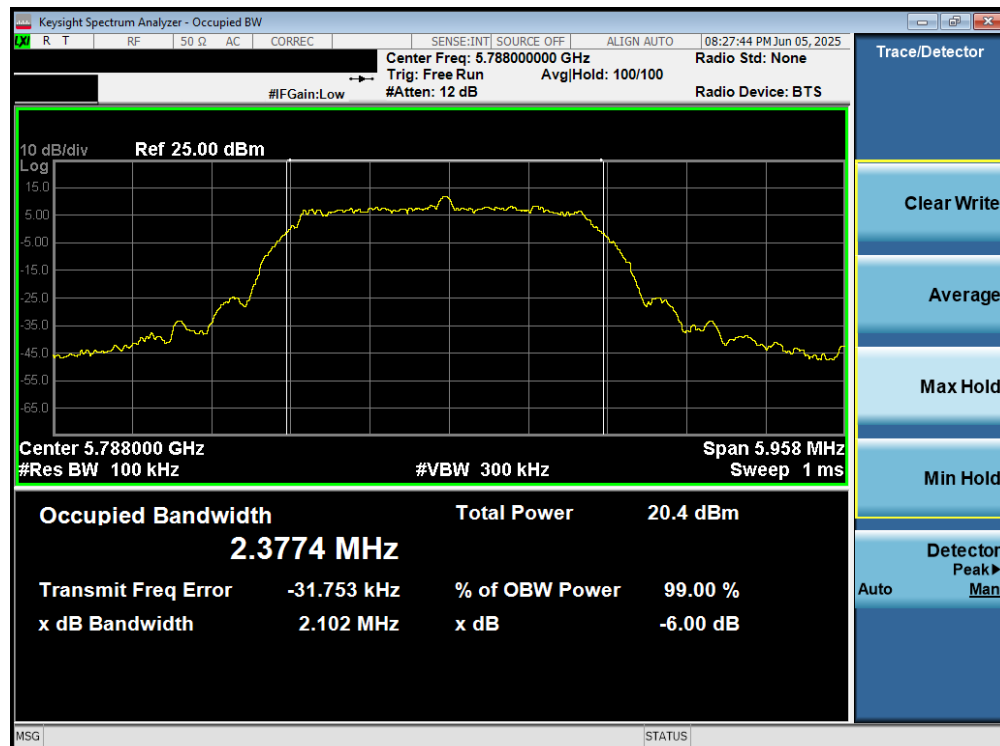
FCC ID: BCGA3358		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170039-19-R2.BCG	Test Dates: 05/12/2025 - 08/13/2025	EUT Type: Tablet Device	Page 46 of 421

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Plot 7-44. 6dB BW & 99% OBW Antenna WF5B (NB UNII HDR8, ePA – 5788MHz)

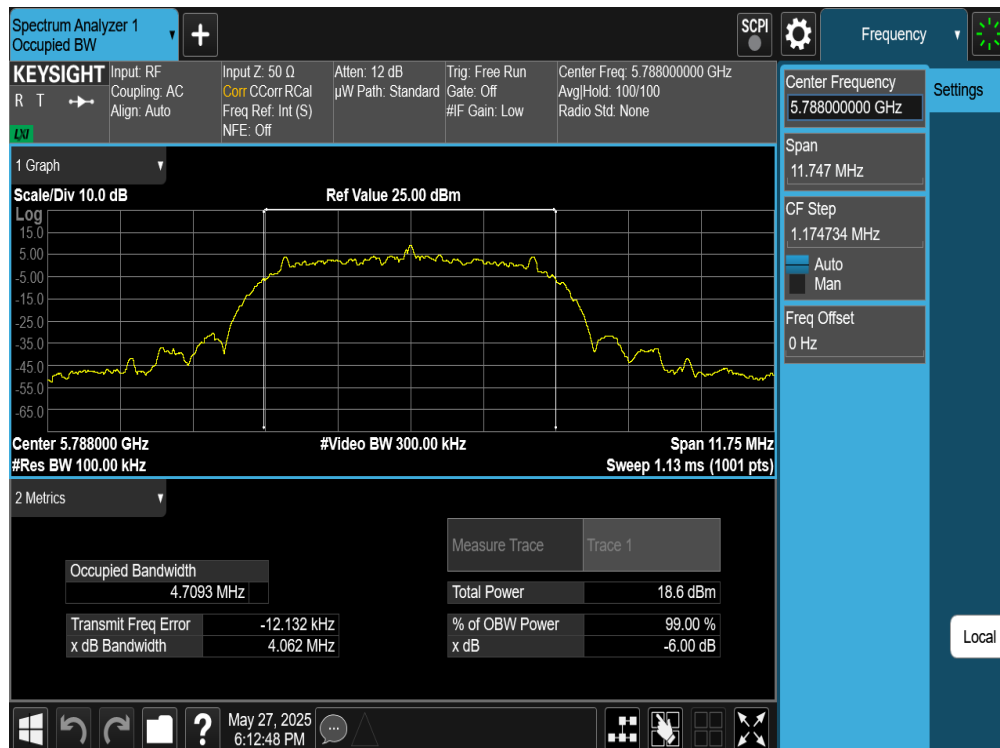
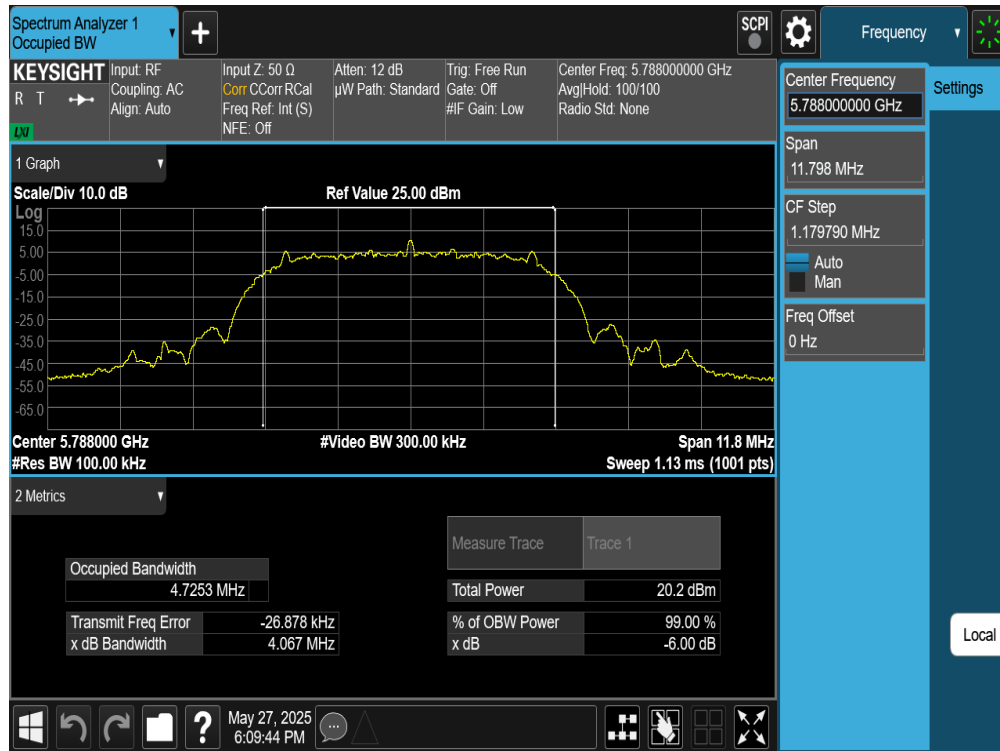


Plot 7-45. 6dB BW & 99% OBW Antenna WF5B (NB UNII HDRPS2, ePA – 5788MHz)

FCC ID: BCGA3358		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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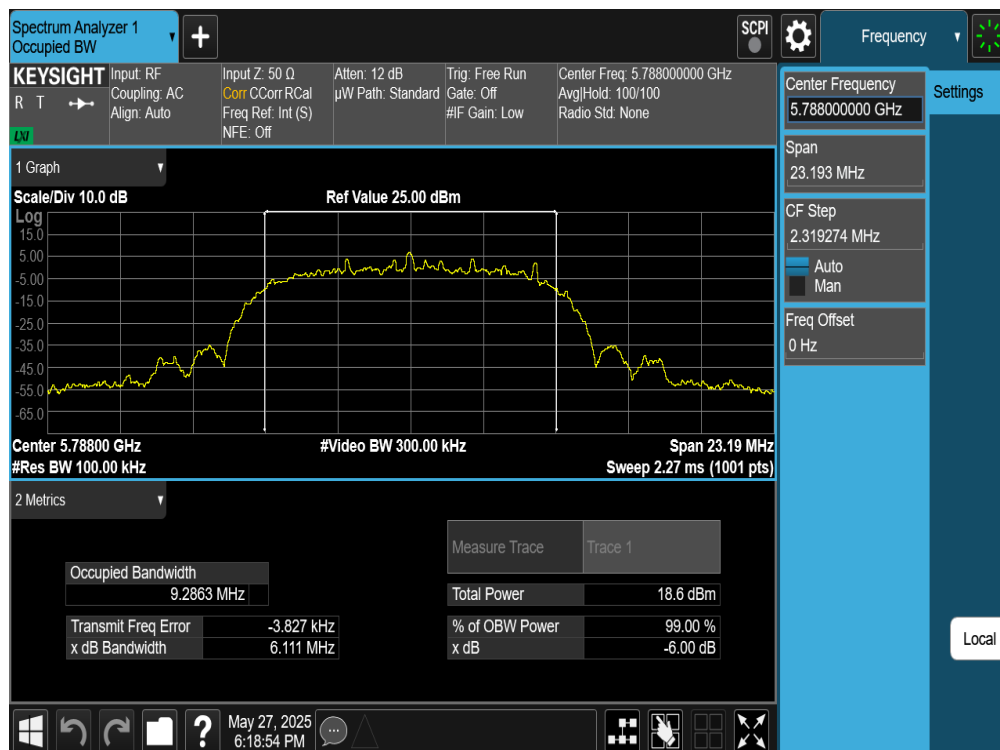
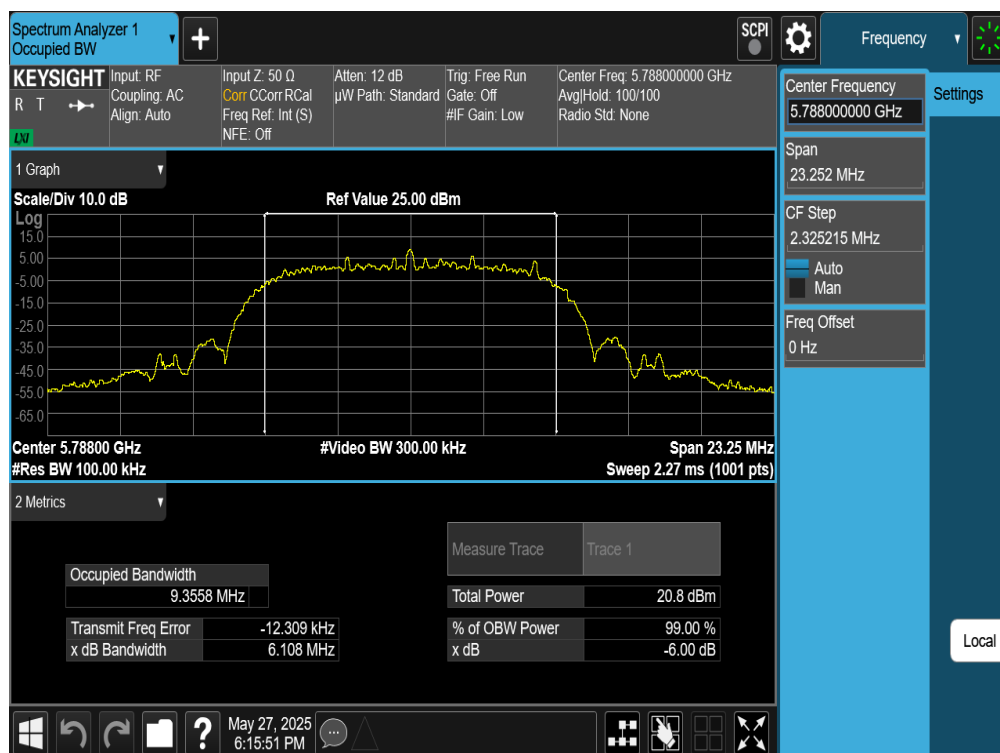
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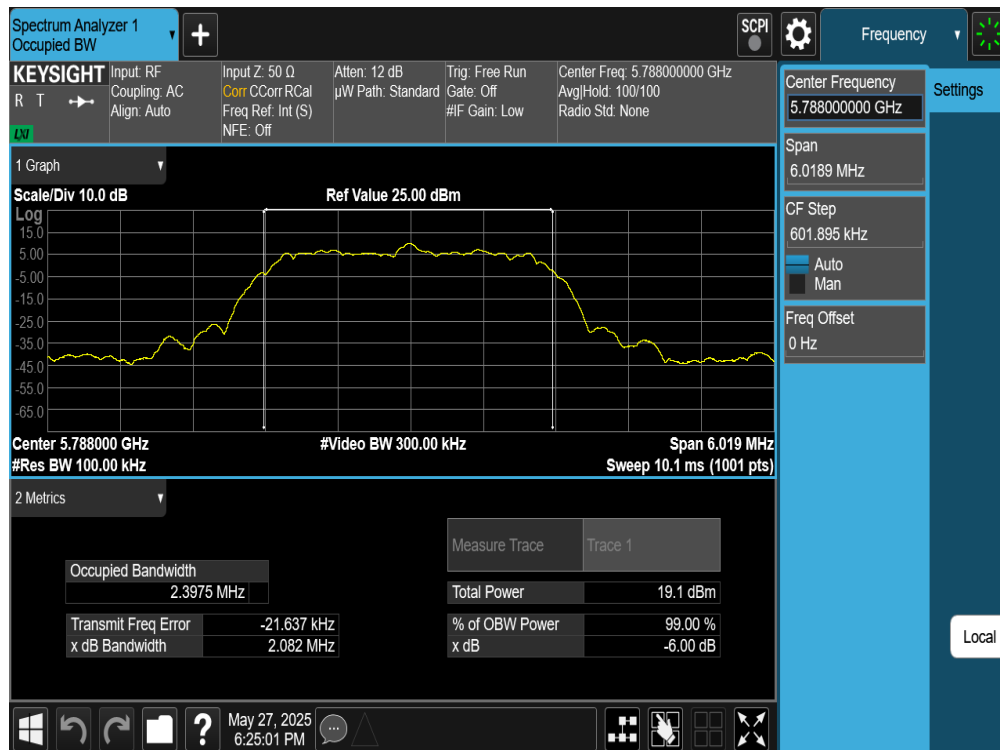
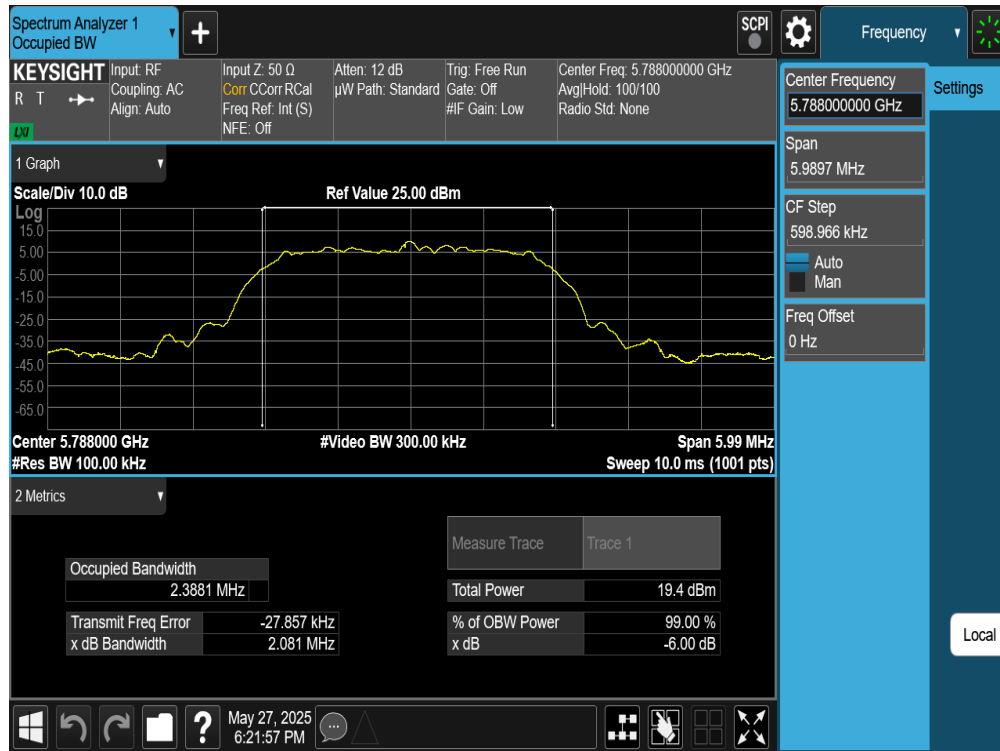
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Plot 7-52. 6dB BW & 99% OBW Antenna WF5B (NB UNII HDT6, ePA- 5788MHz)

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7.3.2 Antenna 4a 6dB & 99% Bandwidth Measurements (U-NII-3)

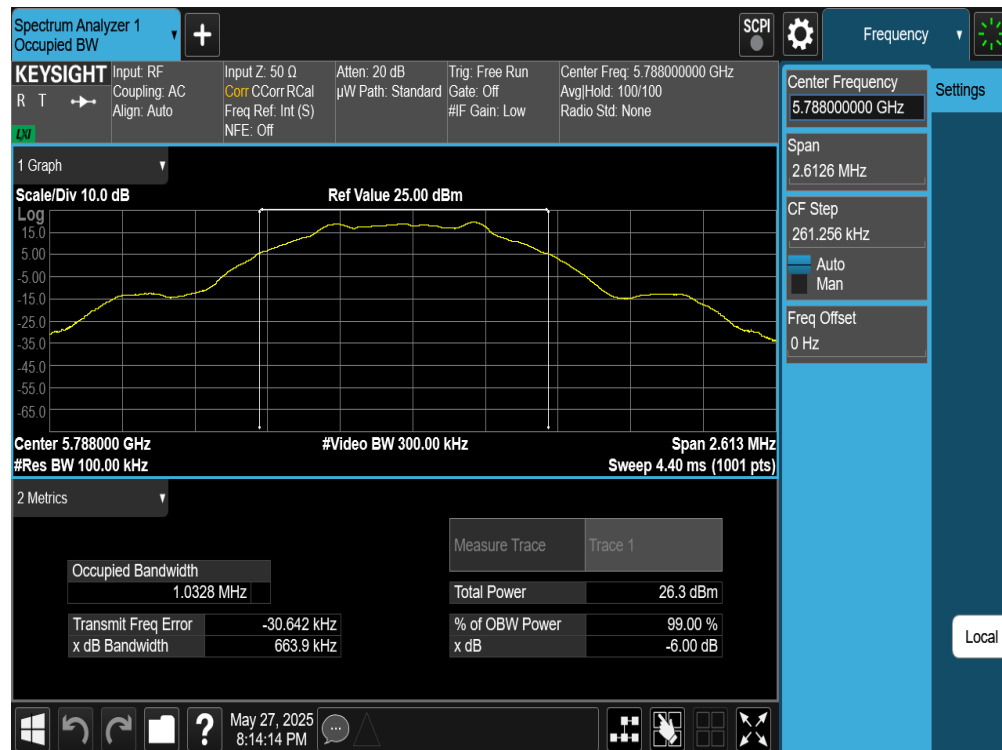
Frequency [MHz]	Data Rate [Mbps]	Mode	Power Scheme	Measured 99% Occupied Bandwidth [MHz]	Measured 6dB Bandwidth [MHz]	Minimum 6dB Bandwidth [MHz]	Pass / Fail
5733	1.0	NB UNII BDR	ePA	0.934	0.504	0.500	Pass
5788	1.0	NB UNII BDR	ePA	0.934	0.503	0.500	Pass
5844	1.0	NB UNII BDR	ePA	0.933	0.503	0.500	Pass
5733	1.0	NB UNII LE1M	ePA	1.033	0.664	0.500	Pass
5788	1.0	NB UNII LE1M	ePA	1.033	0.664	0.500	Pass
5844	1.0	NB UNII LE1M	ePA	1.033	0.662	0.500	Pass
5733	2.0	NB UNII LE2M	ePA	2.042	1.180	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	1.180	0.500	Pass
5733	4.0	NB UNII HDR4	ePA	2.348	1.580	0.500	Pass
5788	4.0	NB UNII HDR4	ePA	2.349	1.575	0.500	Pass
5844	4.0	NB UNII HDR4	ePA	2.348	1.577	0.500	Pass
5733	8.0	NB UNII HDR8	ePA	4.626	0.551	0.500	Pass
5788	8.0	NB UNII HDR8	ePA	4.620	0.552	0.500	Pass
5844	8.0	NB UNII HDR8	ePA	4.635	0.553	0.500	Pass
5733	2.0	NB UNII HDRPS2	ePA	2.380	2.023	0.500	Pass
5788	2.0	NB UNII HDRPS2	ePA	2.379	2.042	0.500	Pass
5844	2.0	NB UNII HDRPS2	ePA	2.392	2.127	0.500	Pass
5733	6.0	NB UNII XHDRPM6	ePA	4.751	4.052	0.500	Pass
5788	6.0	NB UNII XHDRPM6	ePA	4.746	3.989	0.500	Pass
5844	6.0	NB UNII XHDRPM6	ePA	4.748	4.080	0.500	Pass
5733	16.0	NB UNII HDRPM16	ePA	4.677	4.053	0.500	Pass
5788	16.0	NB UNII HDRPM16	ePA	4.679	1.198	0.500	Pass
5844	16.0	NB UNII HDRPM16	ePA	4.700	4.057	0.500	Pass
5733	12.0	NB UNII HDRPL12	ePA	9.359	6.107	0.500	Pass
5788	12.0	NB UNII HDRPL12	ePA	9.373	6.108	0.500	Pass
5844	12.0	NB UNII HDRPL12	ePA	9.358	6.114	0.500	Pass
5733	32.0	NB UNII HDRPL32	ePA	9.287	6.111	0.500	Pass
5788	32.0	NB UNII HDRPL32	ePA	9.279	6.111	0.500	Pass
5844	32.0	NB UNII HDRPL32	ePA	9.284	6.096	0.500	Pass
5733	2.0	NB UNII HDT2	ePA	2.387	2.082	0.500	Pass
5788	2.0	NB UNII HDT2	ePA	2.387	2.082	0.500	Pass
5844	2.0	NB UNII HDT2	ePA	2.388	2.083	0.500	Pass
5733	4.0	NB UNII HDT4	ePA	2.397	2.082	0.500	Pass
5788	4.0	NB UNII HDT4	ePA	2.397	2.082	0.500	Pass
5844	4.0	NB UNII HDT4	ePA	2.397	2.083	0.500	Pass
5733	6.0	NB UNII HDT6	ePA	2.394	2.084	0.500	Pass
5788	6.0	NB UNII HDT6	ePA	2.394	2.084	0.500	Pass
5844	6.0	NB UNII HDT6	ePA	2.394	2.084	0.500	Pass

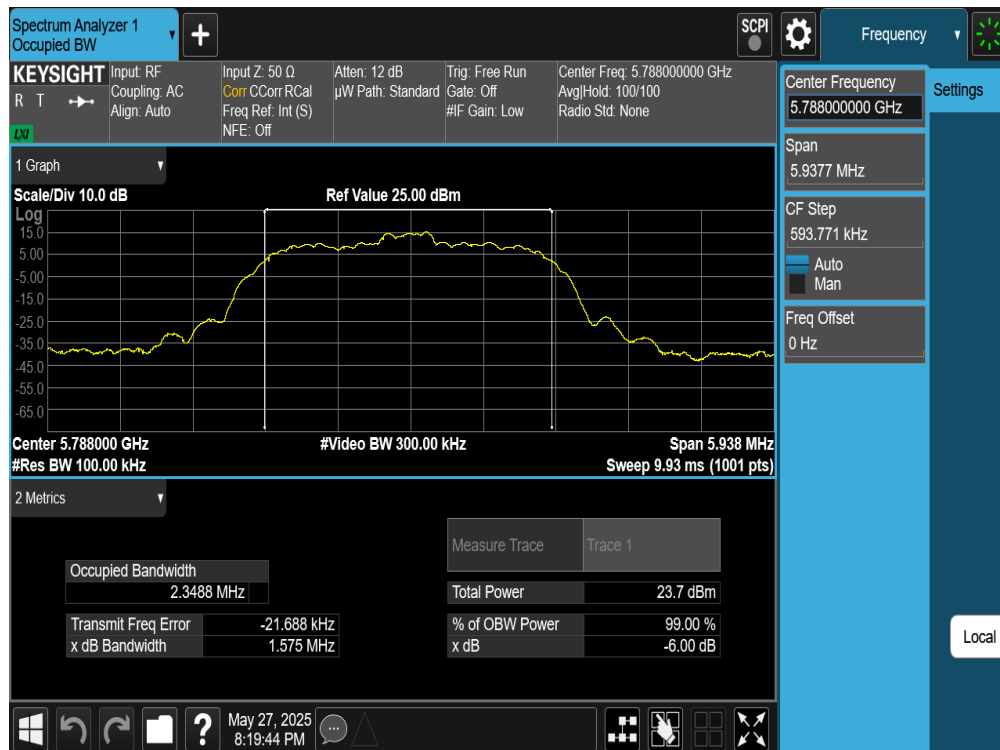
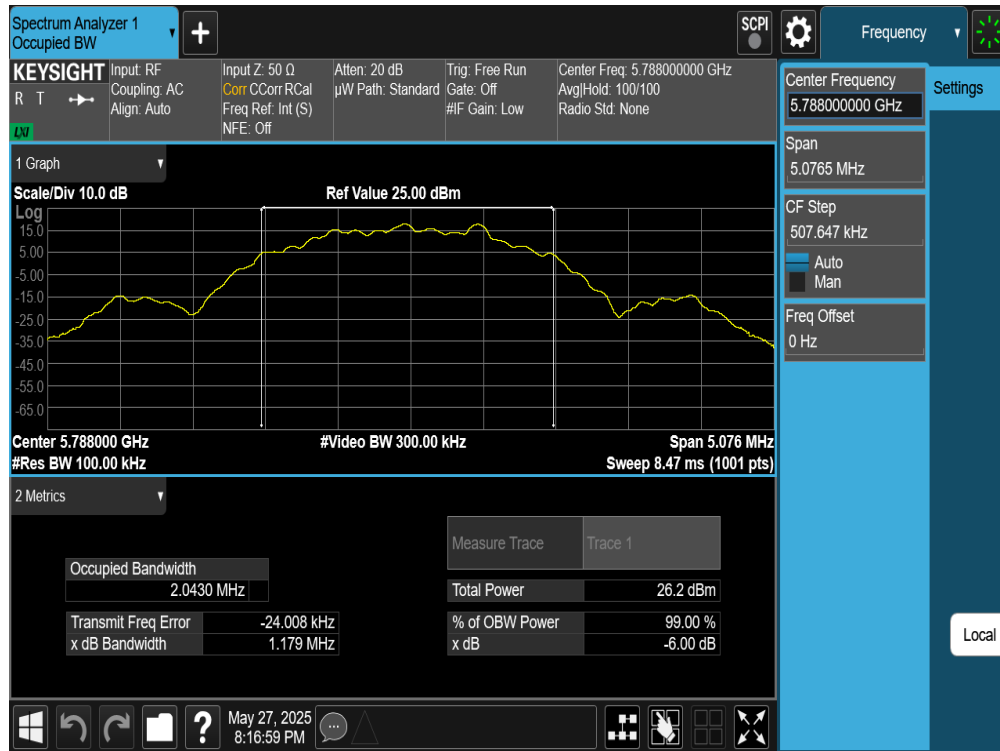
Table 7-6. Conducted BW Measurements Antenna 4a

FCC ID: BCGA3358		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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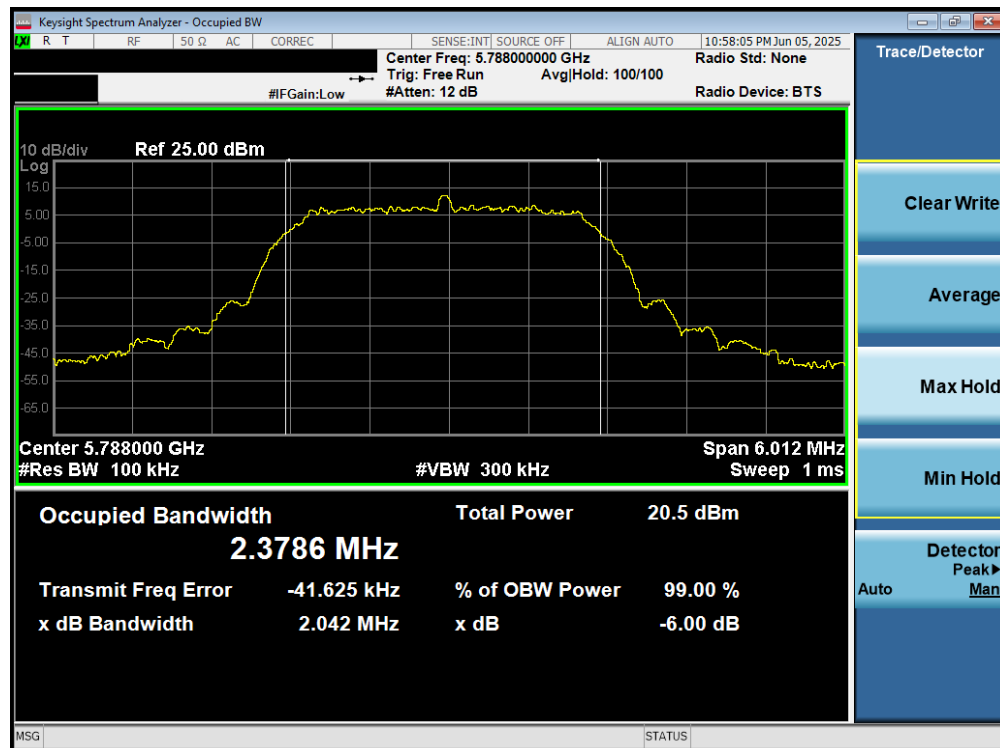
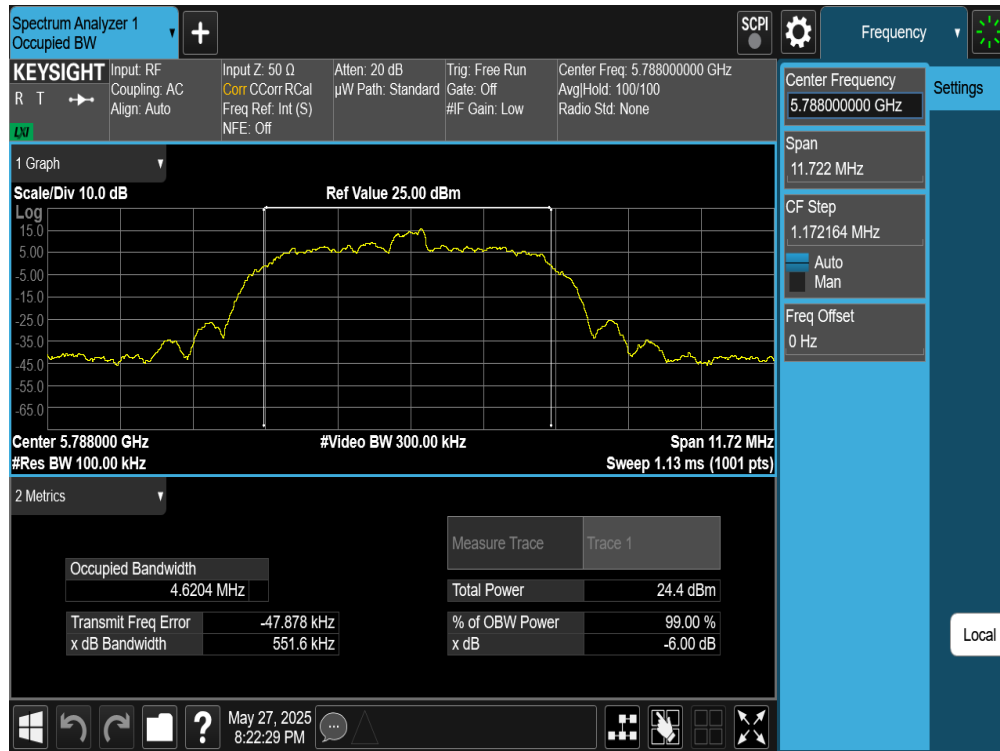




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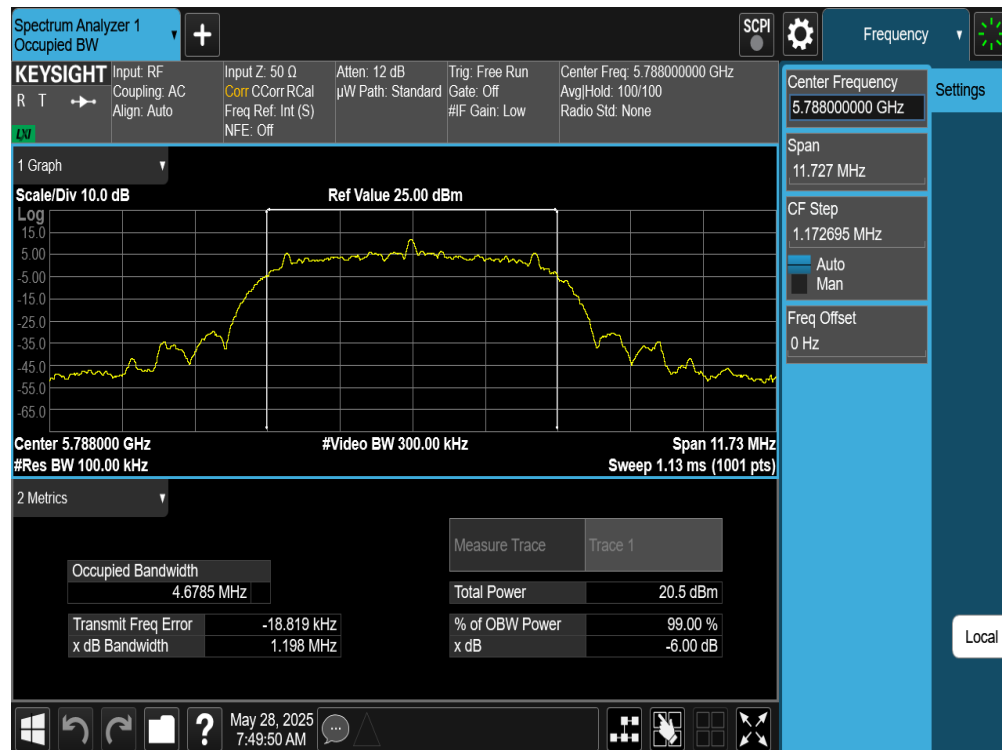
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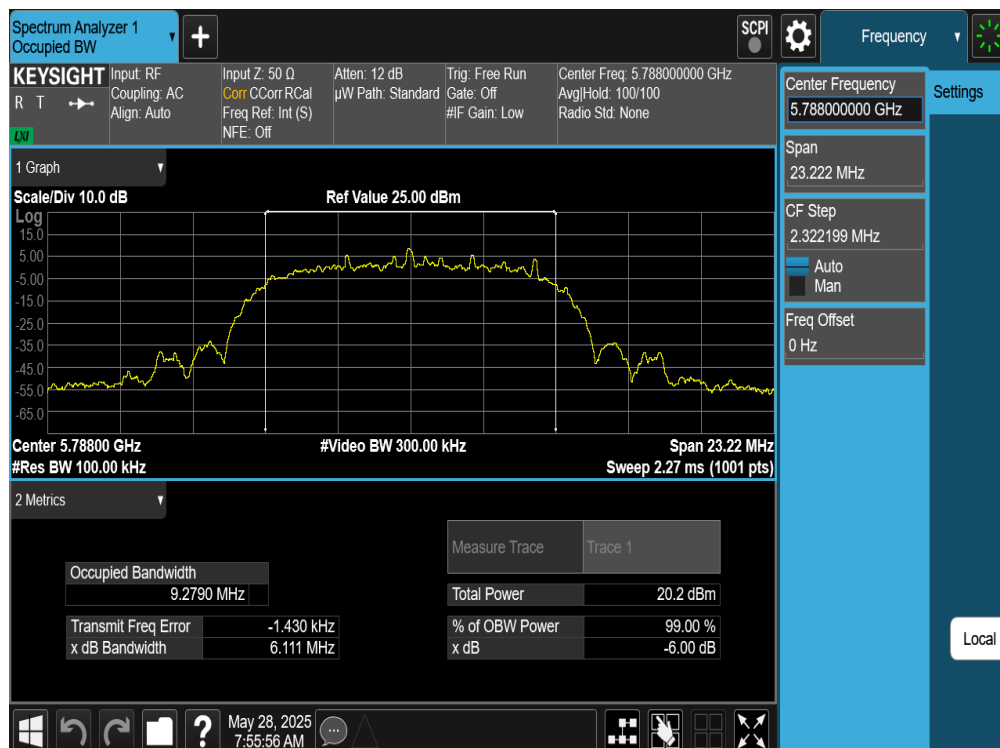
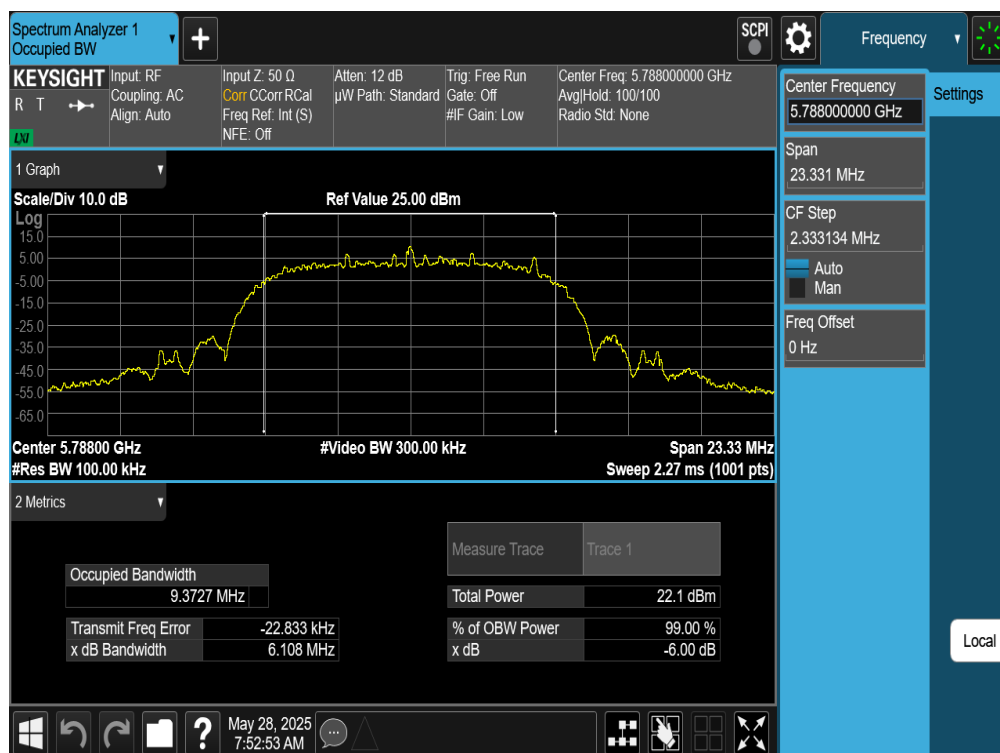


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