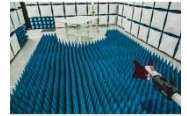




ELEMENT MATERIALS TECHNOLOGY

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MEASUREMENT REPORT FCC PART 15.247 / ISED RSS-247 Bluetooth (HDR)

Applicant Name:

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

Date of Testing:

09/11/2025 - 12/10/2025

Test Report Issue Date:

1/28/2026

Test Site/Location:

Element Materials Technology, Morgan Hill, CA, USA

Test Report Serial No.:

1C2509100080-16-R4.BCG

FCC ID:

BCGA3460

IC:

579C-A3460

APPLICANT:

Apple Inc.

Application Type:

Certification

Model/HVIN:

A3460, A3463

EUT Type:

Tablet Device

Max. RF Output Power:

76.913 mW (18.86 dBm) Peak Conducted

Frequency Range:

2404 – 2476MHz

FCC Classification:

Digital Transmission System (DTS)

FCC Rule Part(s):

Part 15 Subpart C (15.247)

ISED Specification:

RSS-247 Issue 4

Test Procedure(s):

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

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

This revised Test Report (S/N: 1C2509100080-16-R4.BCG) supersedes and replaces the previously issued test report on the same subject device for the same type of testing as indicated. Please discard or destroy the previously issued test report(s) and dispose accordingly.

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

RJ Ortanez
Executive Vice President



FCC ID: BCGA3460 IC: 579C-A3460	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Revision Summary

Revision	Date	Comments	Revised By
-	12/11/2025	Initial Release	WKR017014
R1	12/24/2025	Addressed Client's comment regarding Max Power and TCB comments in 2.2, 7.1, 7.4, 7.5, 7.6, 7.7, 7.8, and 7.9	WKR017014
R2	1/5/2026	Addressed TCB comments in sections 7.3, 7.5, and 7.6	WKR0000010733
R3	1/15/2026	Addressed TCB comments in sections 7.3, 7.5, and 7.6	WKR017014
R4	1/27/2026	Addressed TCB comments in section 7.4.	WKR007200

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1.0 INTRODUCTION

1.1 Scope

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

1.2 Element Materials Technology Test Location

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

1.3 Test Facility / Accreditations

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

- Element Materials Technology is an ISO 17025-2017 accredited test facility under the American Association for Laboratory Accreditation (A2LA) with Certificate number 2041.02 for Specific Absorption Rate (SAR), Hearing Aid Compatibility (HAC) testing, where applicable, and Electromagnetic Compatibility (EMC) testing for FCC and Innovation, Science, and Economic Development Canada rules.
- Element Washington DC LLC TCB is a Telecommunication Certification Body (TCB) accredited to ISO/IEC 17065-2012 by A2LA (Certificate number 2041.03) in all scopes of FCC Rules and ISED Standards (RSS).
- Element Materials Technology facility is a registered (22831) test laboratory with the site description on file with ISED.
- Element Washington DC LLC is a Recognized U.S. Certification Assessment Body (CAB # US0110) for ISED Canada as designated 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: BCGA3460, IC: 579C-A3460**. The data found in this test report was taken with the EUT operating in Bluetooth HDR mode. While in HDR mode, the Bluetooth transmitter hops pseudo-randomly between 73 channels.

Test Device Serial No.: H2KYFYWQTT, QPC2DN40YW, DLXHKV0001A00013YR, DLXHKV0001700013YR

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.

HDR		HDT	
Ch.	Frequency (MHz)	Ch.	Frequency (MHz)
01	2404	01	2404
:	:	:	:
38	2441	37	2440
:	:	:	:
73	2476	73	2476

Table 2-1. Bluetooth HDR Frequency / Channel Operations

This device is capable of operating in hopping and non-hopping mode. The EUT can hop between 73 different channels in the 2400 – 2483.5MHz band.

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Group	Mode	Data Rate (Mbps)	Modulation	Bandwidth (MHz)
1	HDR4	4	Pi/4-DQPSK	2
2	HDR8	8	Pi/4-DQPSK	4
3	HDRPS2	2	OQPSK	2
	XHDRPS2	2		
4	HDRPM4	4	OQPSK	4
	HDRPM6	6		
	HDRPM8	8		
	XHDRPM4	4		
	XHDRPM6	6		
	XHDRPM8	8		
5	HDRPM12	12	16QAM	4
	HDRPM16	16		
	XHDRPM12	12		
	XHDRPM16	16		
6	HDT2	2	Pi/4-QPSK	2
	HDT3	3		
7	HDT4	4	8PSK	2
8	HDT6	6	16QAM	2
	HDT8	8		

Table 2-2. Bluetooth HDR/HDT Configuration

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

HDR/HDT Mode		Antenna 3a		Antenna 1a		TxBF	
		Duty Cycle [%]	DCCF [dB]	Duty Cycle [%]	DCCF [dB]	Duty Cycle [%]	DCCF [dB]
HDR4	ePA	77.500	1.107	77.553	1.104	77.714	1.095
	iPA	77.500	1.107	77.553	1.104	77.714	1.095
HDR8	ePA	77.804	1.090	77.750	1.093	78.127	1.072
	iPA	77.804	1.090	77.750	1.093	78.127	1.072
HDRPS2	ePA	92.427	0.342	92.427	0.342	92.427	0.342
	iPA	92.427	0.342	92.427	0.342	92.427	0.342
XHDRPS2	ePA	98.810	0.052	98.401	0.070	100.000	0.000
	iPA	98.810	0.052	98.401	0.070	100.000	0.000
XHDRPM6	ePA	86.656	0.622	86.397	0.635	86.457	0.632
	iPA	86.656	0.622	86.397	0.635	86.457	0.632
XHDRPM8	ePA	92.257	0.350	91.854	0.369	92.045	0.360
	iPA	92.257	0.350	91.854	0.369	92.045	0.360
HDRPM16	ePA	89.598	0.477	89.784	0.468	89.784	0.468
	iPA	89.598	0.477	89.784	0.468	89.784	0.468
XHDRPM16	ePA	87.781	0.566	87.317	0.589	87.297	0.590
	iPA	87.781	0.566	87.317	0.589	87.297	0.590
HDT2	ePA	96.427	0.158	96.472	0.156	96.427	0.158
	iPA	96.427	0.158	96.472	0.156	96.427	0.158
HDT8	ePA	89.248	0.494	89.228	0.495	88.777	0.517
	iPA	89.248	0.494	89.228	0.495	88.777	0.517

Table 2-3. Measured Duty Cycles

TxBF = Antenna 3a + Antenna 1a

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

Antenna	Simultaneous Tx Config	Bluetooth 2.4GHz	Thread	WLAN	NB UNII	WIFI 5GHz	WIFI 6GHz	LTE / FR1 NR		
		BDR, EDR, LE HDR, HDT	802.15.4	802.11 b/g/n/ax/be	BDR, EDR, LE HDR, HDT	802.11 a/n/ac/ax/be	802.11 a/ax/be	LB	MB/HB	UHB
Ant 1a	Config 1	✗	✗	✓	✗	✗	✗	✗	✓	✗
Ant 1a	Config 2	✗	✗	✓	✗	✗	✗	✗	✗	✓
Ant 1a	Config 3	✓	✗	✗	✗	✗	✗	✗	✓	✗
Ant 1a	Config 4	✓	✗	✗	✗	✗	✗	✗	✗	✓
Ant 1a	Config 5	✗	✓	✗	✗	✗	✗	✗	✓	✗
Ant 1a	Config 6	✗	✓	✗	✗	✗	✗	✗	✗	✓
Ant 1b	Config 7	✗	✗	✗	✗	✓	✗	✗	✓	✗
Ant 1b	Config 8	✗	✗	✗	✗	✗	✓	✗	✓	✗
Ant 1b	Config 9	✗	✗	✗	✓	✗	✗	✗	✓	✗
Ant 3a	Config 10	✗	✗	✓	✓	✗	✗	✗	✓	✗
Ant 3a	Config 11	✓	✗	✗	✗	✓	✗	✗	✓	✗
Ant 3a	Config 12	✗	✓	✗	✗	✓	✗	✗	✓	✗
Ant 3a	Config 13	✓	✗	✗	✗	✗	✓	✗	✓	✗
Ant 3a	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 11 and reported in RF Bluetooth, RF UNII 5GHz OFDM, RF FCC Part 27b, and RSS-199 test reports.

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2.3 Antenna Description

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

Frequency [GHz]	Antenna Gain (dBi)	
	Antenna 3a	Antenna 1a
2.4	2.6	1.3

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: C4H042705ZNPMOWA6
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 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024 and KDB 558074 D01 v05r02. ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024 was used to reference the appropriate EUT setup for radiated spurious emissions testing and AC line conducted testing. See Sections 3.2 for AC line conducted emissions test setups, 3.3 for radiated emissions test setups, and 7.2, 7.3, 7.4, 7.5, 7.6, and 7.7 for antenna port conducted emissions test setups.

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

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

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

For AC line conducted and radiated test below 1GHz, following configuration were investigated and the worst case was reported.

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

BT rates have been categorized into multiple groups (see Table 2-2), with each group evaluated and only the worst-case rate per group was reported.

For conducted emissions, the following are the worst case BT rates for testing:

1. HDR4
2. HDR8
3. HDRPS2
4. XHDRPM6
5. HDRPM16
6. HDT2

For radiated band edge, the following are the worst case BT rates for testing:

1. HDR4
2. HDR8
3. XHDRPS2
4. XHDRPM8
5. XHDRPM16
6. HDT8

For radiated spurious emission, the following are the worst case BT rates for testing:

1. HDR4

2.6 Software and Firmware

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

2.7 EMI Suppression Device(s)/Modifications

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

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3.0 DESCRIPTION OF TESTS

3.1 Evaluation Procedure

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

Deviation from measurement procedure.....None

3.2 AC Line Conducted Emissions

The line-conducted facility is located inside a 7m x 3.66m x 2.7m shielded enclosure. The shielded enclosure is manufactured by AP Americas. The shielding effectiveness of the shielded room is in accordance with MIL-Std-285 or NSA 65-5. 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 an EPCOS 2X60A Power Line Filter (100dB Attenuation, 14kHz-18GHz) and the two EPCOs 2X48A filters (100dB Minimum Insertion Loss, 14kHz – 10GHz). These filters attenuate ambient signal noise from entering the measurement lines. These filters are also bonded to the shielded enclosure.

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

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

Line conducted emissions test results are shown in Section 7.10. 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 rotated about its vertical axis while the reference device was rotated through the X, Y and Z axis in order to capture the worst case level. A maximum deviation of 2.77dB at 149kHz was measured when comparing the 3 meter semi-anechoic chamber to the open field site.

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

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

3.4 Environmental Conditions

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

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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 antenna(s) of the EUT are **permanently attached**.
- There are no provisions for connection to an external antenna.

Conclusion:

The EUT complies with the requirement of §15.203.

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5.0 MEASUREMENT UNCERTAINTY

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

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

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6.0 TEST EQUIPMENT CALIBRATION DATA

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

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

Table 6-1. Test Equipment List

Note:

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

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7.0 TEST RESULTS

7.1 Summary

Company Name: Apple Inc.
 FCC ID: BCGA3460
 IC: 579C-A3460
 FCC Classification: Digital Transmission System (DTS)
 Number of Channels: 73

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

Table 7-1. Summary of Test Results

Notes:

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

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7.2 99% Occupied Bandwidth

§2.1049; RSS-Gen [6.7]

Test Overview and Limit

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

Test Procedure Used

ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024 – Subclause 11.8.2 Option 2

KDB 558074 D01 v05r02 – Section 8.2

RSS-Gen [6.7]

Test Settings

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

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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

All supported modulation, antenna (including TxBF mode) and power schemes have been tested on the unit and only worst case configuration is reported.

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7.2.1 Antenna 3a

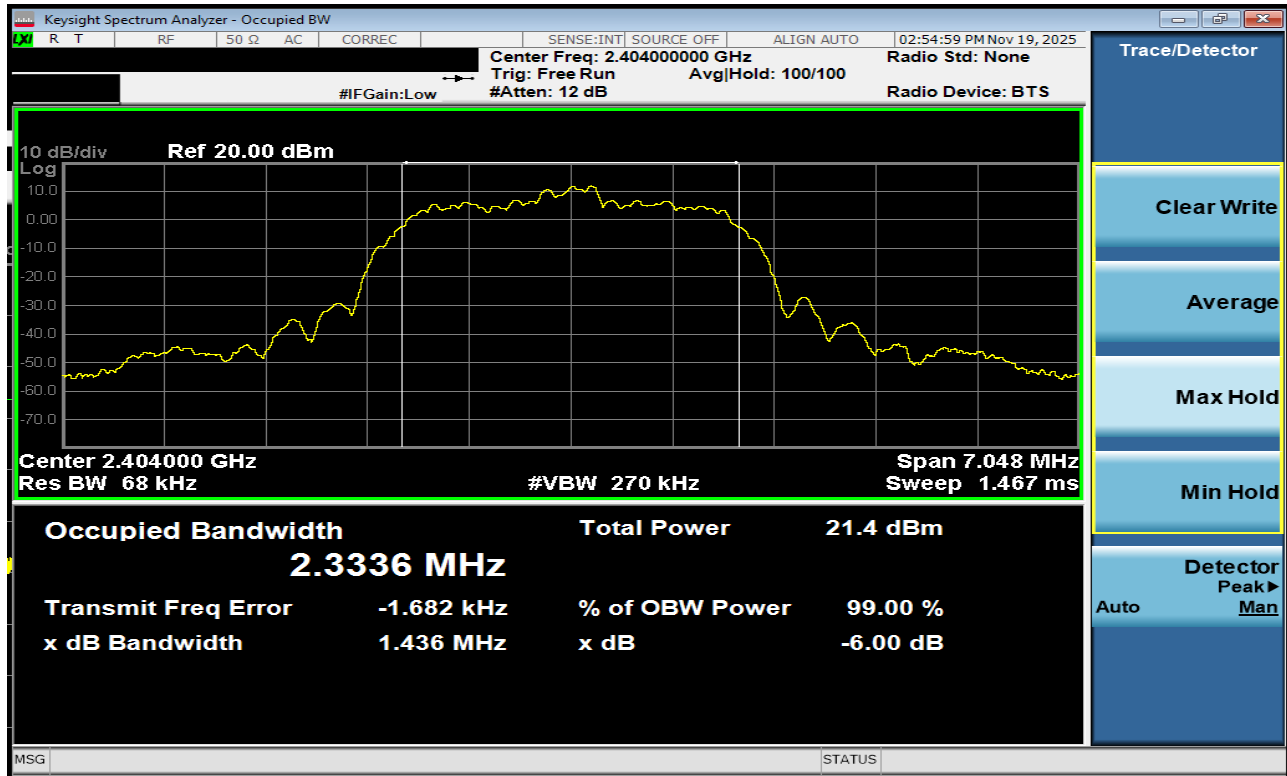
Frequency [MHz]	Mode	Power Scheme	Channel	Measured 99% Occupied Bandwidth [MHz]
2404	HDR4	ePA	1	2.33
2441	HDR4	ePA	38	2.33
2476	HDR4	ePA	73	2.33
2404	HDR8	ePA	1	4.67
2441	HDR8	ePA	38	4.68
2476	HDR8	ePA	73	4.67
2404	HDRPS2	ePA	1	2.38
2441	HDRPS2	ePA	38	2.37
2476	HDRPS2	ePA	73	2.38
2404	XHDRPM6	ePA	1	4.73
2441	XHDRPM6	ePA	38	4.75
2476	XHDRPM6	ePA	73	4.74
2404	HDRPM16	ePA	1	4.70
2441	HDRPM16	ePA	38	4.70
2476	HDRPM16	ePA	73	4.70
2404	HDT2	ePA	1	2.38
2440	HDT2	ePA	37	2.38
2476	HDT2	ePA	73	2.38

Table 7-2. 99% OBW Measurements Antenna 3a

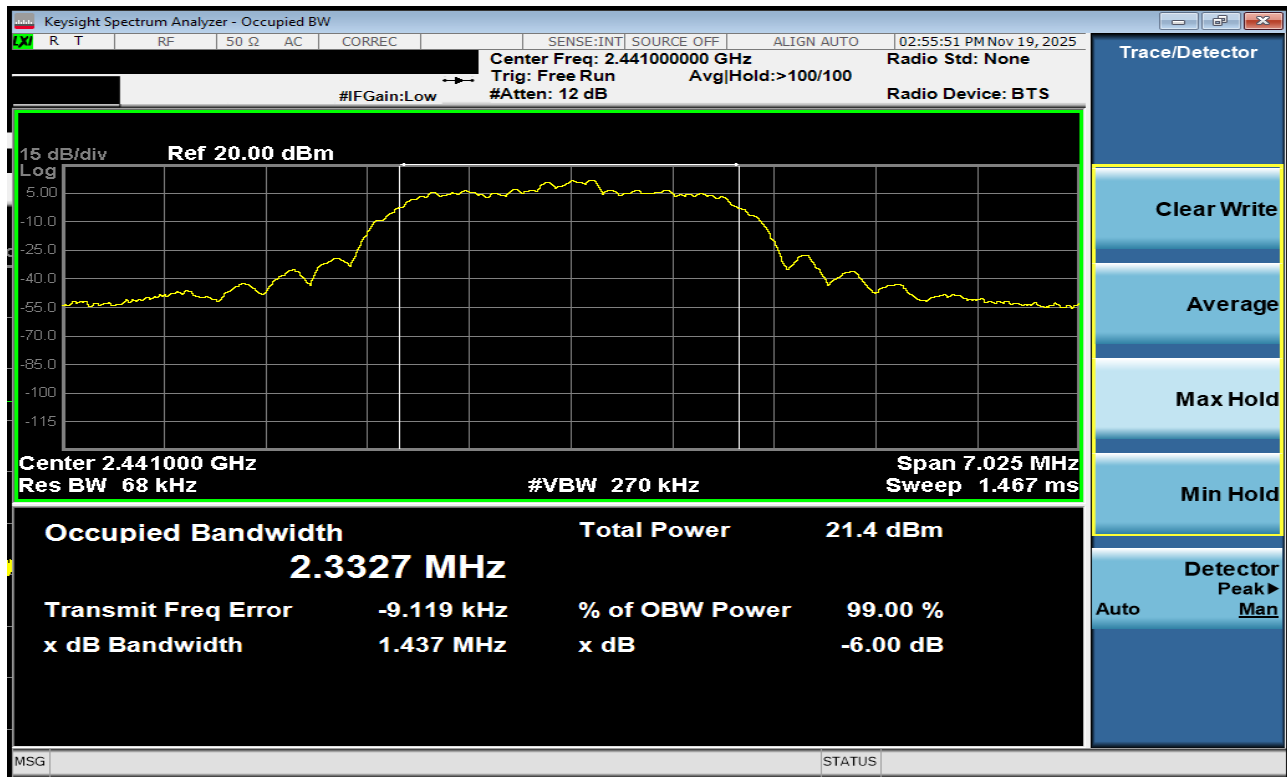
FCC ID: BCGA3460 IC: 579C-A3460		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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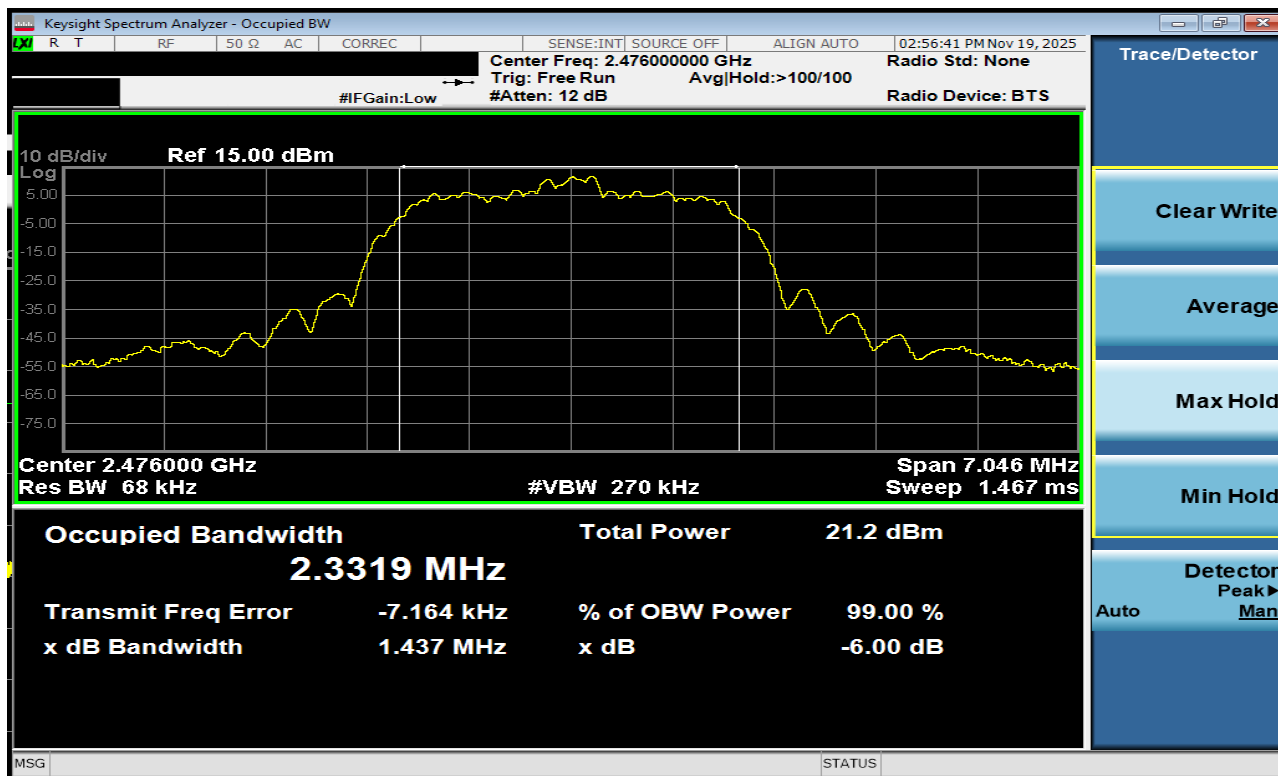


Plot 7-1. 99% OBW Plot Antenna 3a (Bluetooth (HDR4), 4Mbps, ePA – Ch. 1)

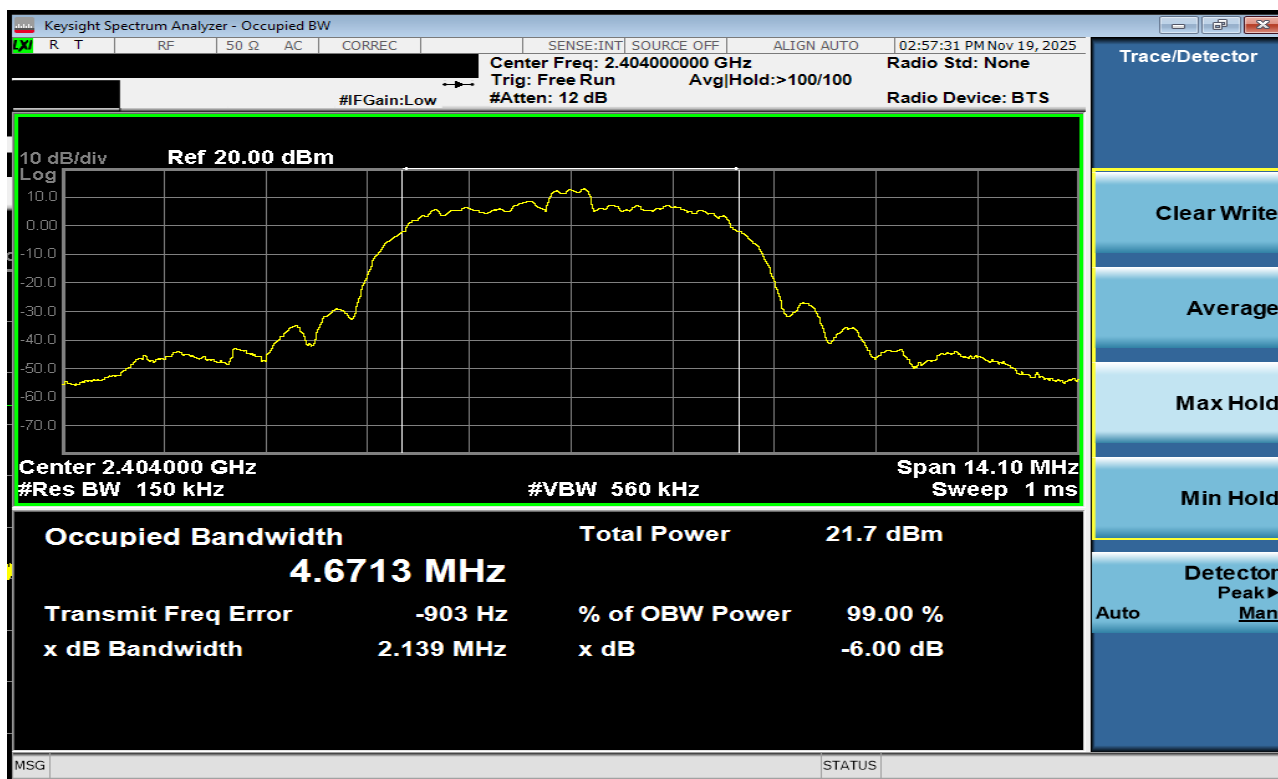


Plot 7-2. 99% OBW Plot Antenna 3a (Bluetooth (HDR4), 4Mbps, ePA – Ch. 38)

FCC ID: BCGA3460 IC: 579C-A3460		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-3. 99% OBW Plot Antenna 3a (Bluetooth (HDR4), 4Mbps, ePA – Ch. 73)

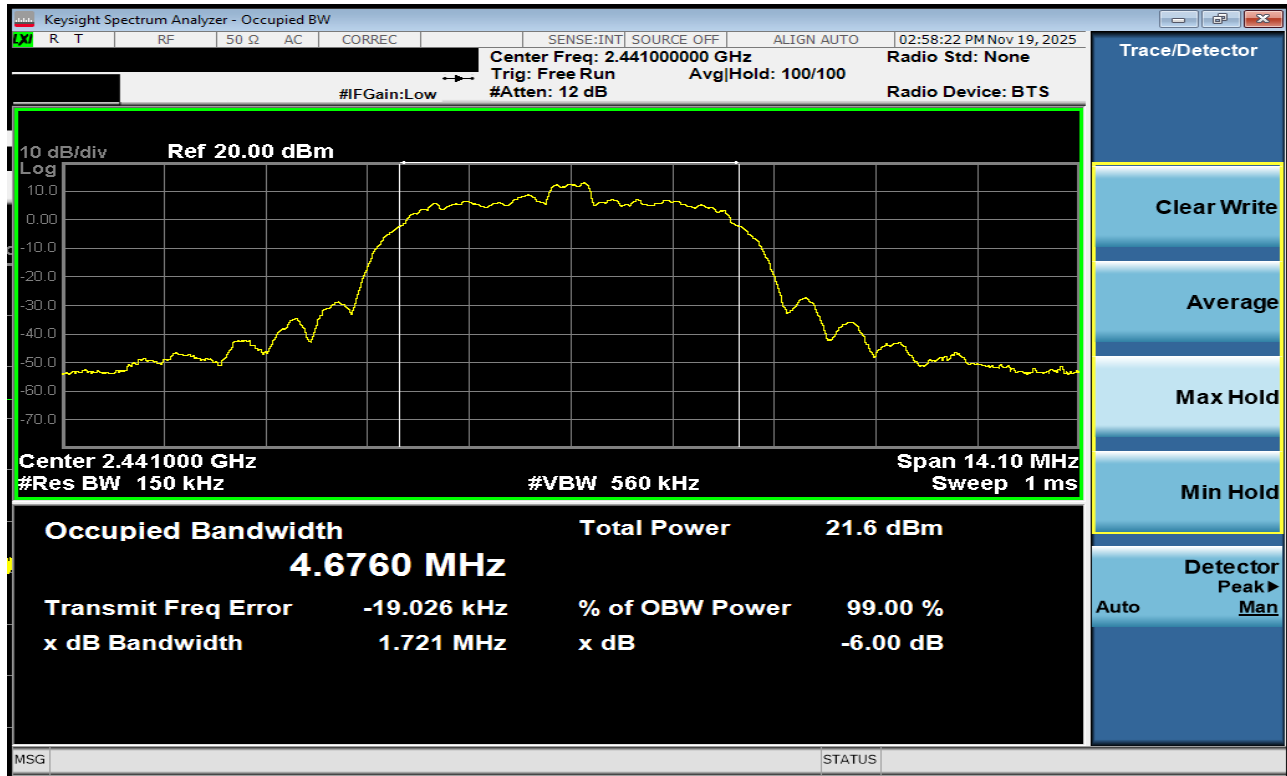


Plot 7-4. 99% OBW Plot Antenna 3a (Bluetooth (HDR8), 8Mbps, ePA – Ch. 1)

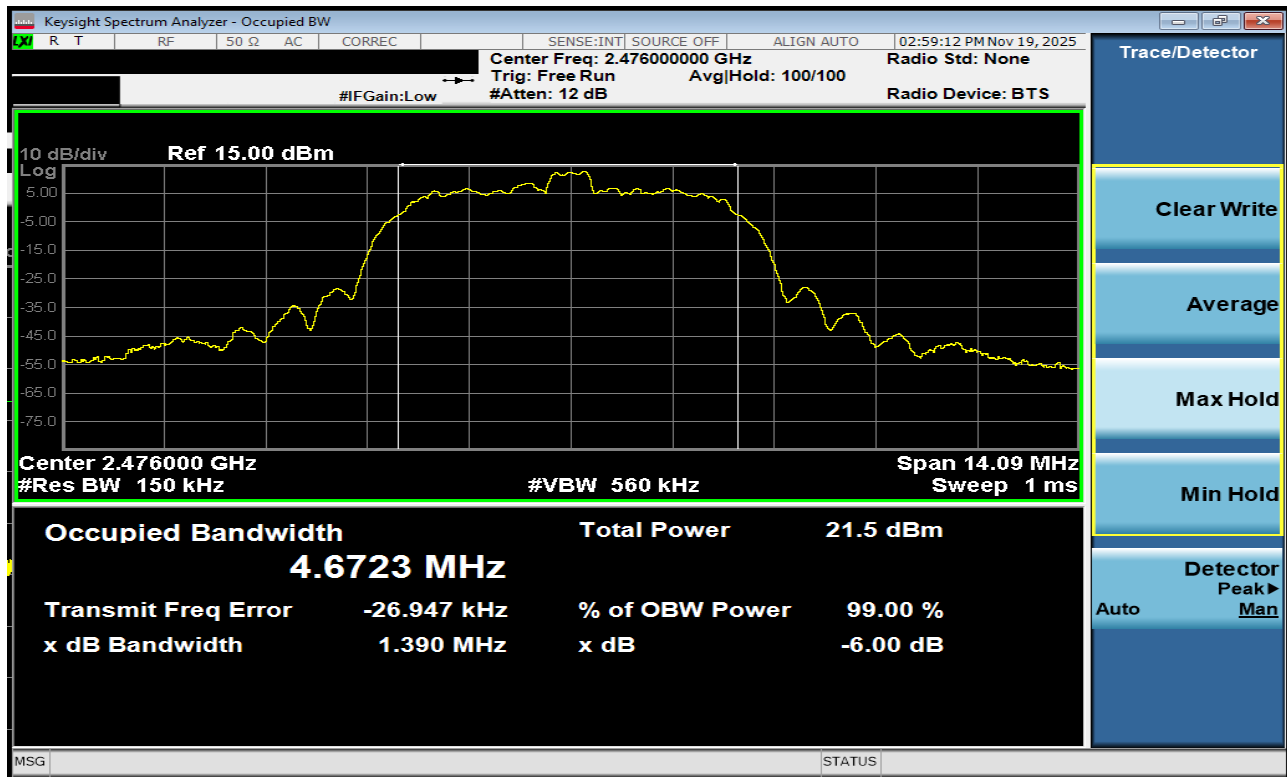
FCC ID: BCGA3460 IC: 579C-A3460		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-5. 99% OBW Plot Antenna 3a (Bluetooth (HDR8), 8Mbps, ePA – Ch. 38)

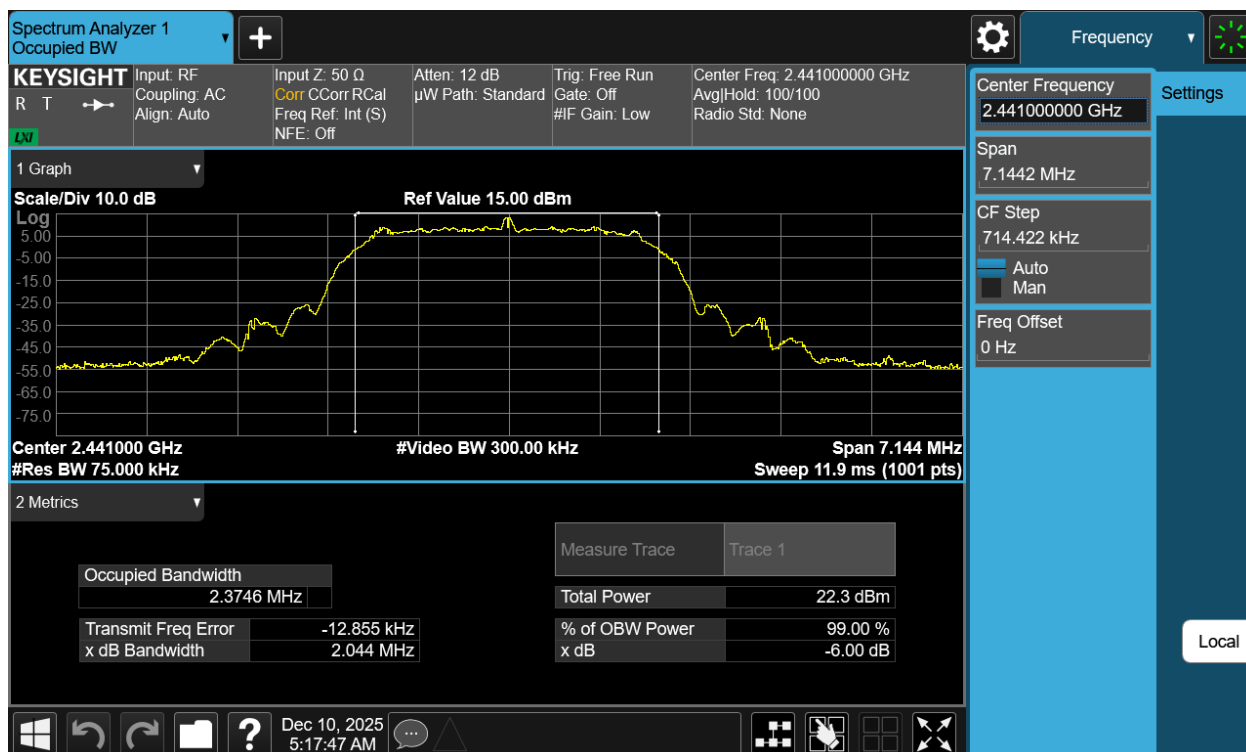


Plot 7-6. 99% OBW Plot Antenna 3a (Bluetooth (HDR8), 8Mbps, ePA – Ch. 73)

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Plot 7-7. 99% OBW Plot Antenna 3a (Bluetooth (HDRPS2), 2Mbps, ePA – Ch. 1)



Plot 7-8. 99% OBW Plot Antenna 3a (Bluetooth (HDRPS2), 2Mbps, ePA – Ch. 38)

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Plot 7-9. 99% OBW Plot Antenna 3a (Bluetooth (HDRPS2), 2Mbps, ePA – Ch. 73)



Plot 7-10. 99% OBW Plot Antenna 3a (Bluetooth (XHDRPM6), 6Mbps, ePA – Ch. 1)

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Plot 7-11. 99% OBW Plot Antenna 3a (Bluetooth (XHDRPM6), 6Mbps, ePA – Ch. 38)

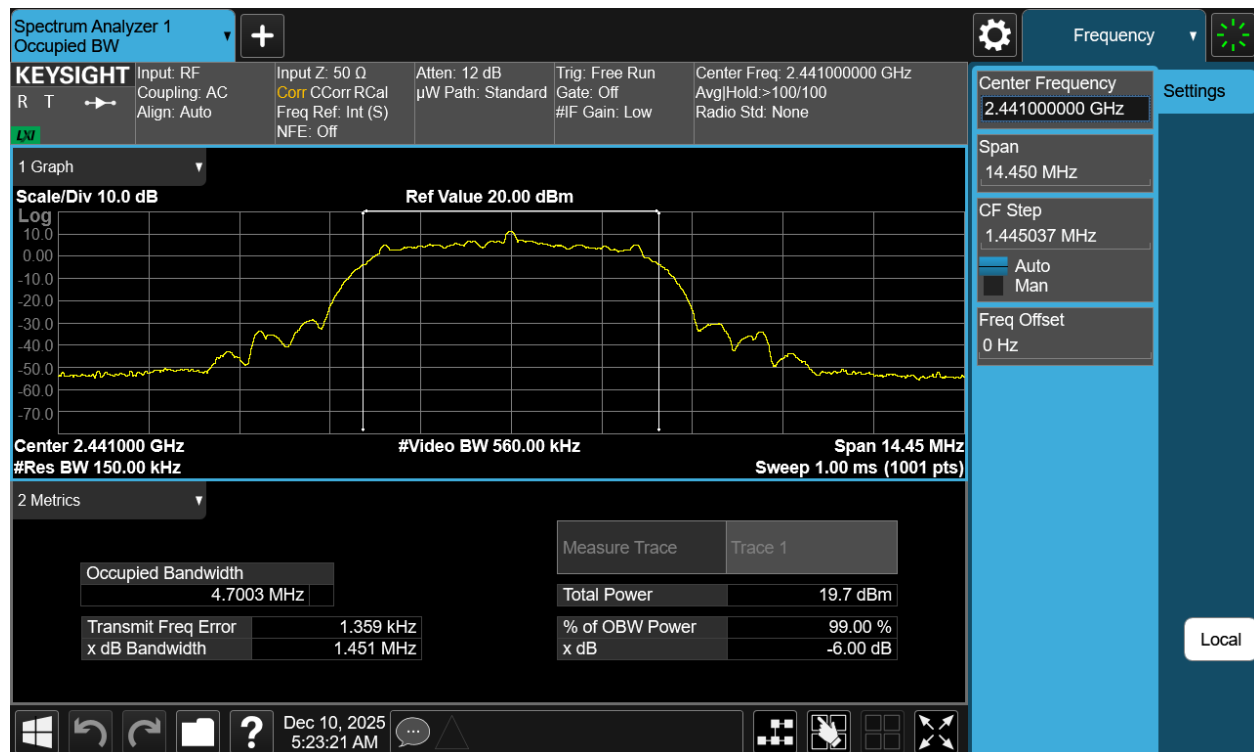


Plot 7-12. 99% OBW Plot Antenna 3a (Bluetooth (XHDRPM6), 6Mbps, ePA – Ch. 73)

FCC ID: BCGA3460 IC: 579C-A3460		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-13. 99% OBW Plot Antenna 3a (Bluetooth (HDRPM16), 16Mbps, ePA – Ch. 1)



Plot 7-14. 99% OBW Plot Antenna 3a (Bluetooth (HDRPM16), 16Mbps, ePA – Ch. 38)

FCC ID: BCGA3460 IC: 579C-A3460		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-15. 99% OBW Plot Antenna 3a (Bluetooth (HDRPM16), 16Mbps, ePA – Ch. 73)

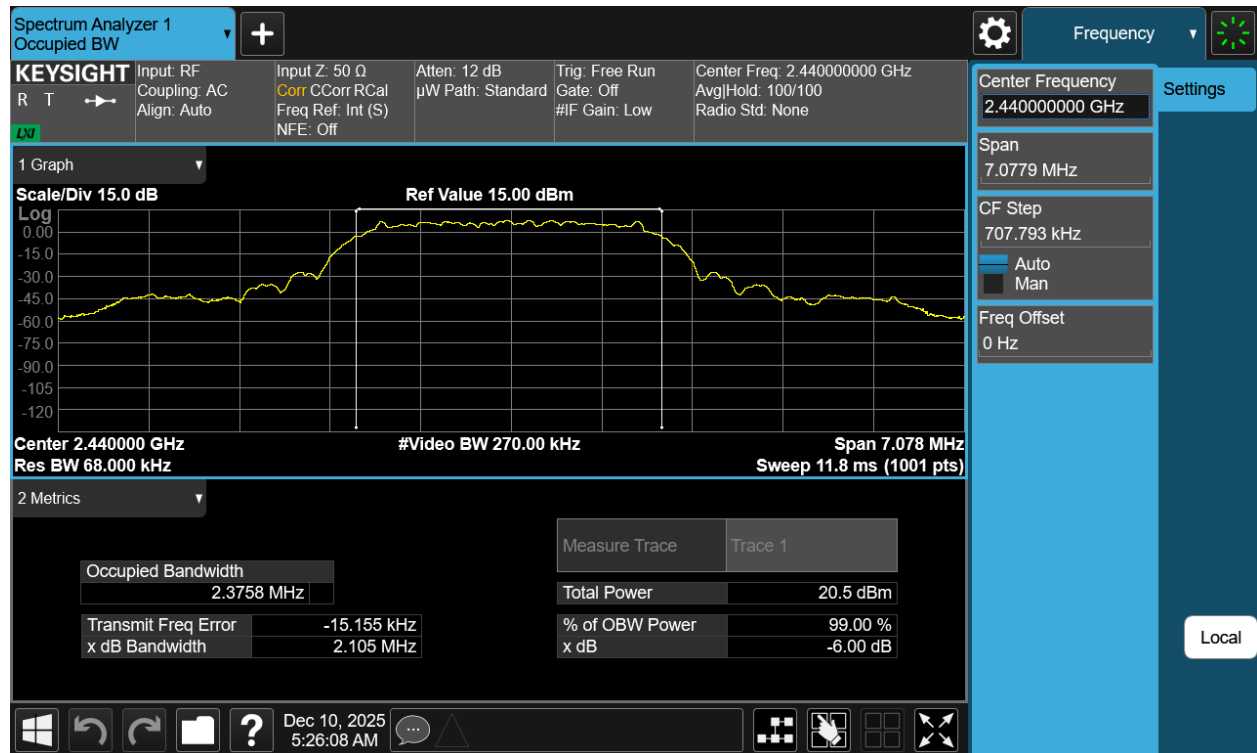


Plot 7-16. 99% OBW Plot Antenna 3a (Bluetooth (HDT2), 2Mbps, ePA – Ch. 1)

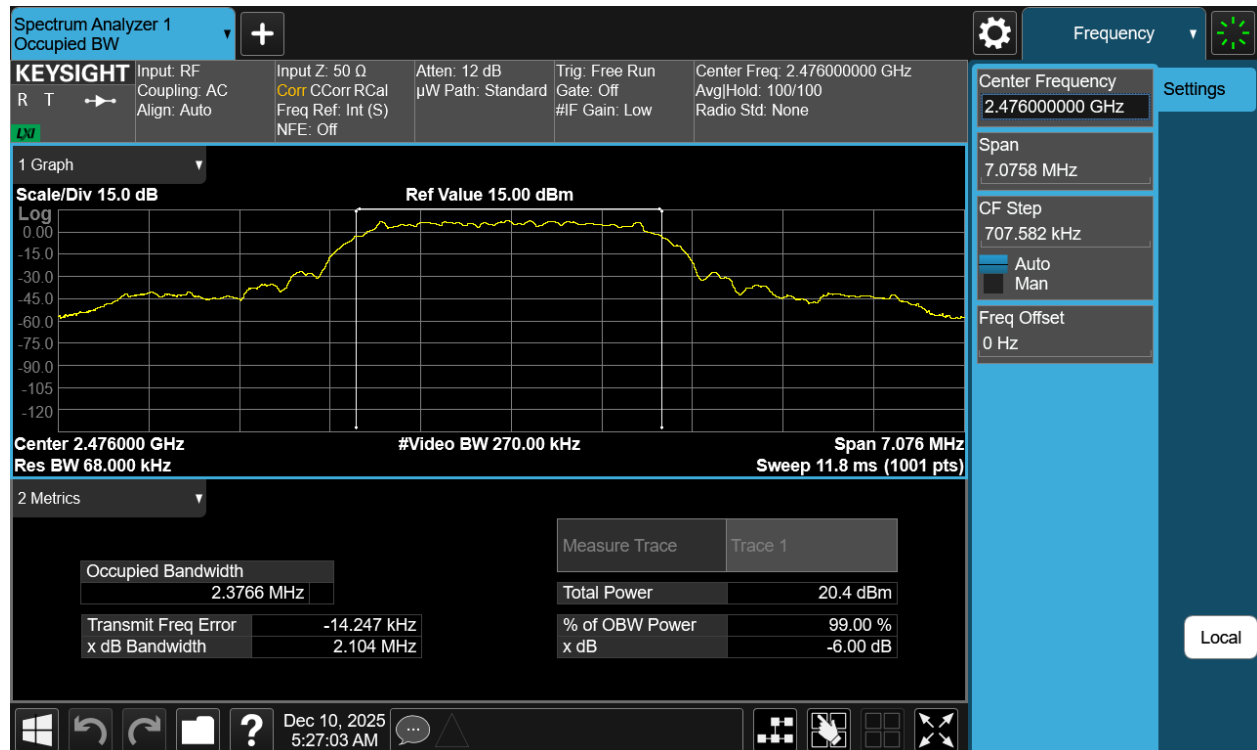
FCC ID: BCGA3460 IC: 579C-A3460		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-17. 99% OBW Plot Antenna 3a (Bluetooth (HDT2), 2Mbps, ePA – Ch. 37)



Plot 7-18. 99% OBW Plot Antenna 3a (Bluetooth (HDT2), 2Mbps, ePA – Ch. 73)

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7.2.2 Antenna 1a

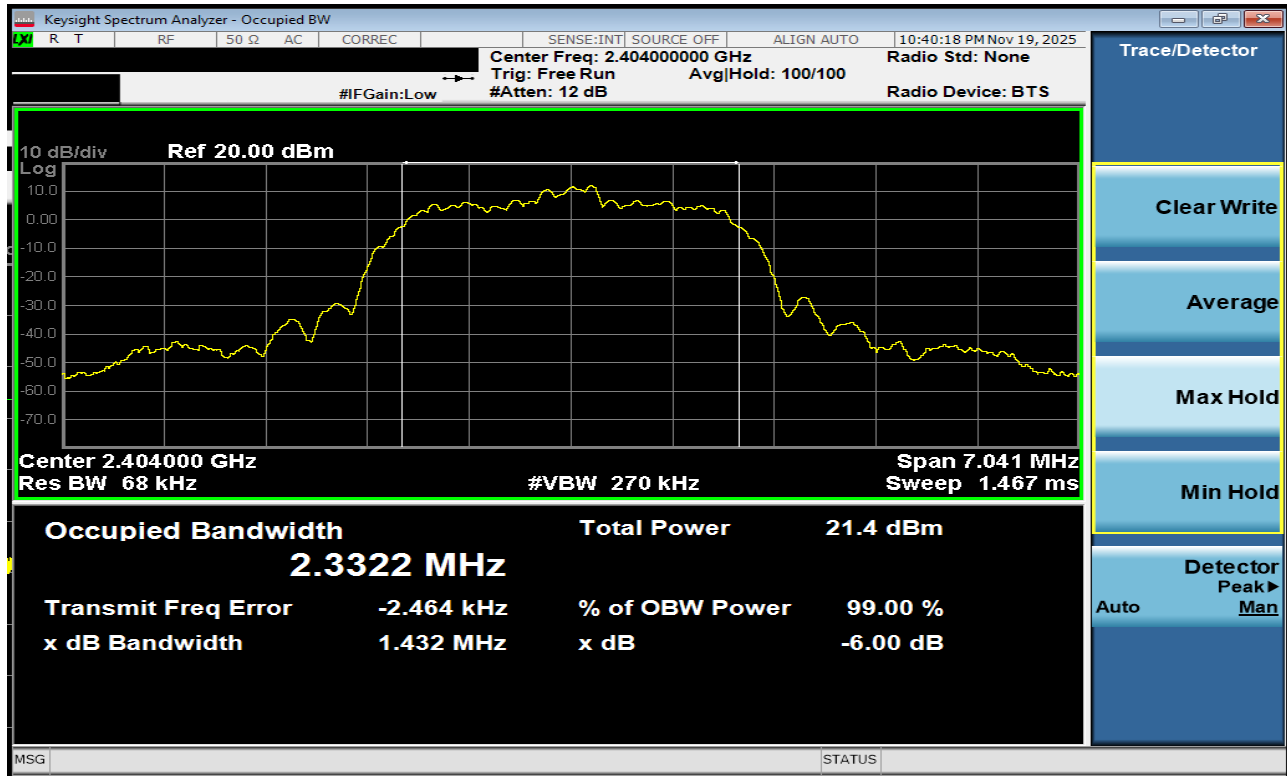
Frequency [MHz]	Mode	Power Scheme	Channel	Measured 99% Occupied Bandwidth [MHz]
2404	HDR4	ePA	1	2.33
2441	HDR4	ePA	38	2.33
2476	HDR4	ePA	73	2.33
2404	HDR8	ePA	1	4.68
2441	HDR8	ePA	38	4.68
2476	HDR8	ePA	73	4.67
2404	HDRPS2	ePA	1	2.37
2441	HDRPS2	ePA	38	2.38
2476	HDRPS2	ePA	73	2.37
2404	XHDRPM6	ePA	1	4.74
2441	XHDRPM6	ePA	38	4.74
2476	XHDRPM6	ePA	73	4.74
2404	HDRPM16	ePA	1	4.71
2441	HDRPM16	ePA	38	4.71
2476	HDRPM16	ePA	73	4.70
2404	HDT2	ePA	1	2.38
2440	HDT2	ePA	37	2.38
2476	HDT2	ePA	73	2.38

Table 7-3. 99% OBW Measurements Antenna 1a

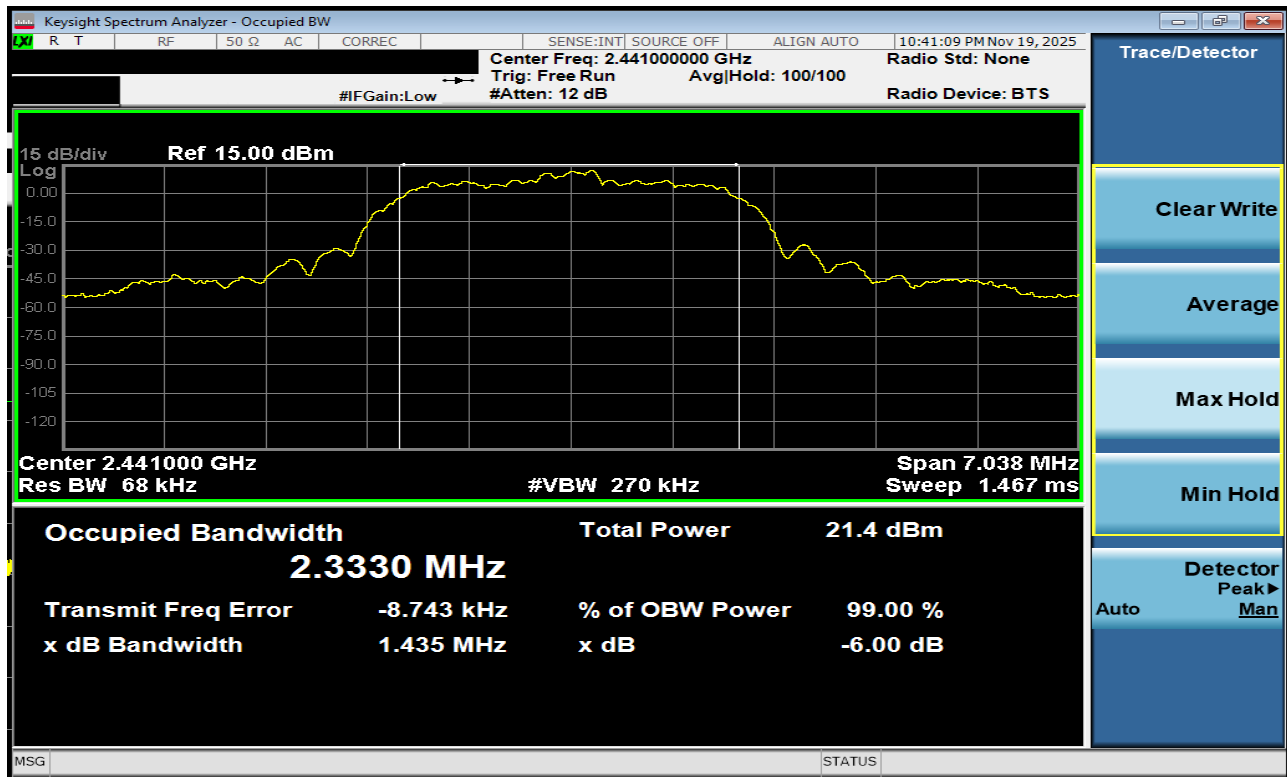
FCC ID: BCGA3460 IC: 579C-A3460		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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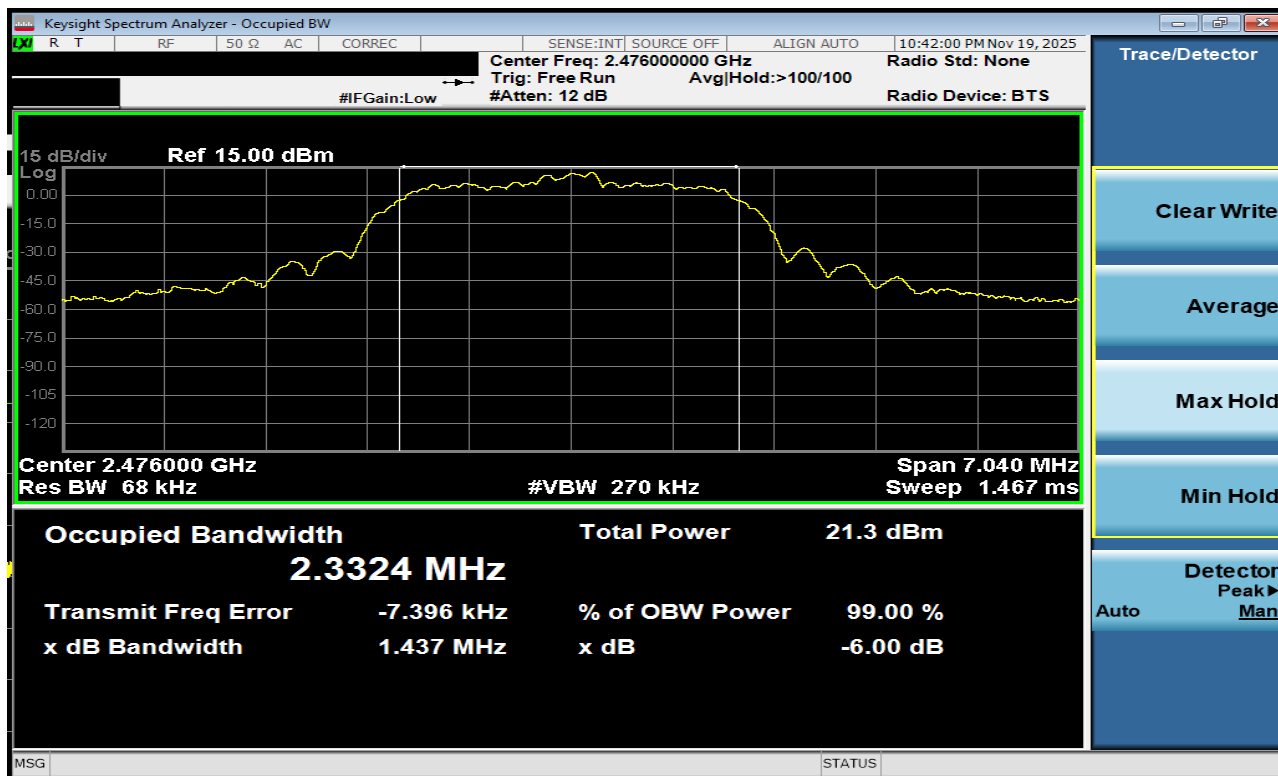


Plot 7-19. 99% OBW Plot Antenna 1a (Bluetooth (HDR4), 4Mbps, ePA – Ch. 1)

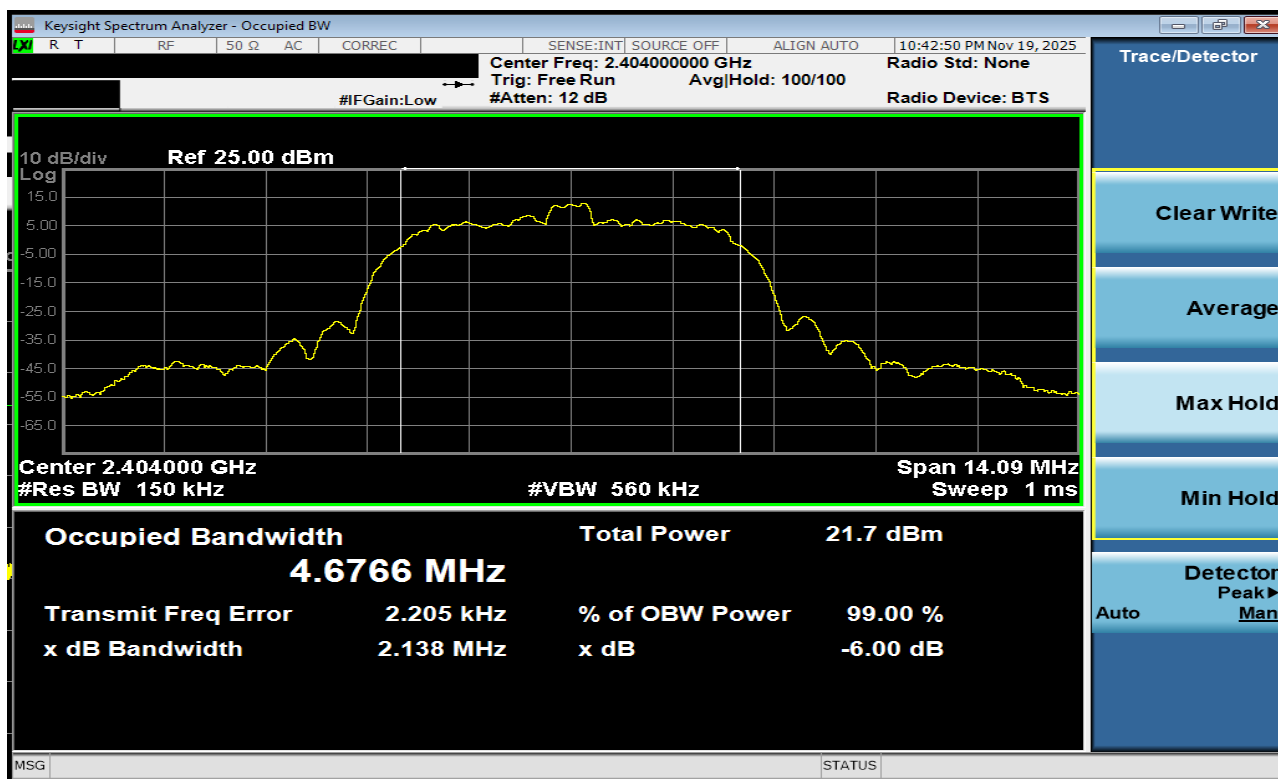


Plot 7-20. 99% OBW Plot Antenna 1a (Bluetooth (HDR4), 4Mbps, ePA – Ch. 38)

FCC ID: BCGA3460 IC: 579C-A3460		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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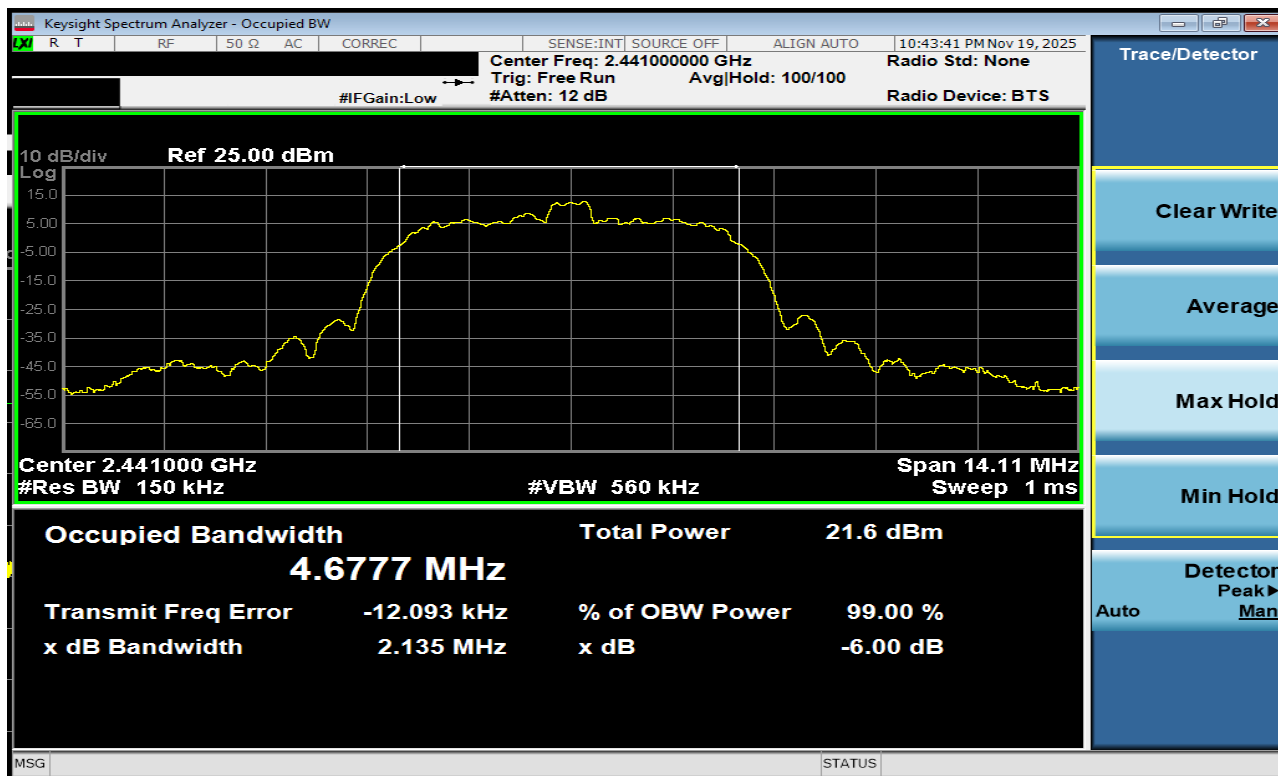


Plot 7-21. 99% OBW Plot Antenna 1a (Bluetooth (HDR4), 4Mbps, ePA – Ch. 73)

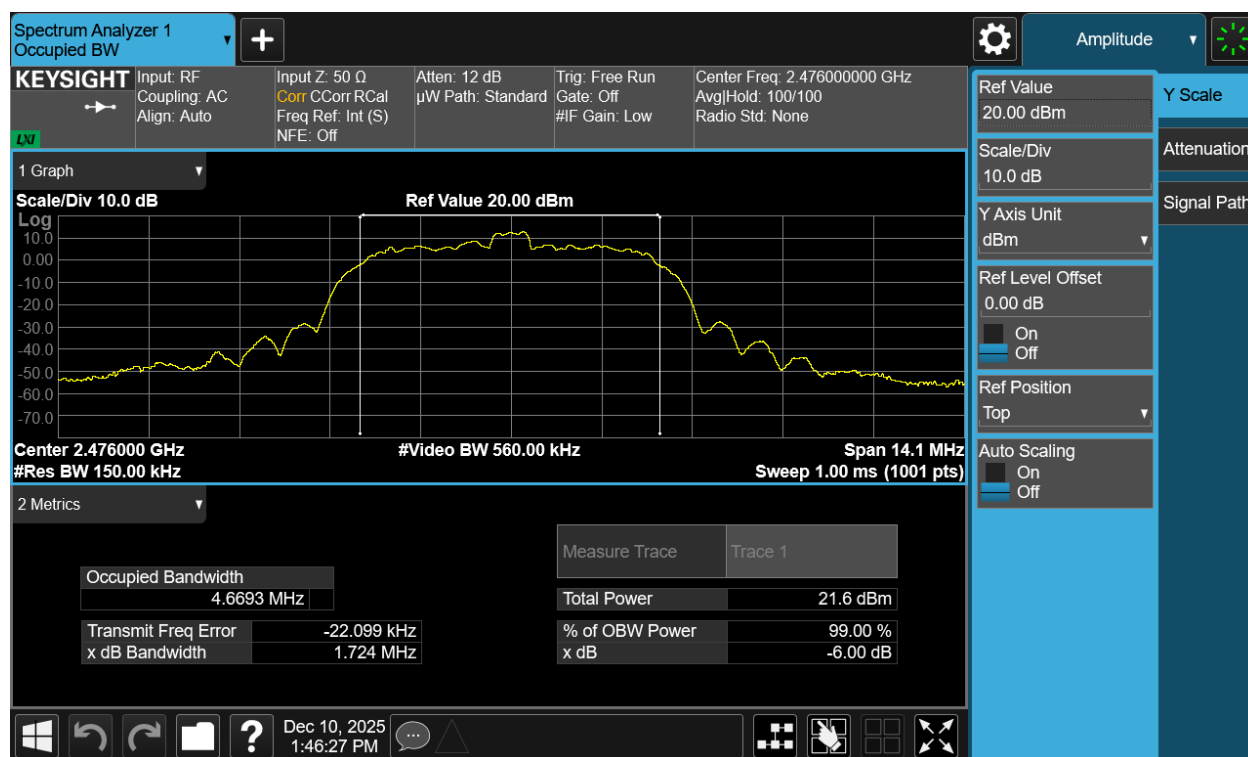


Plot 7-22. 99% OBW Plot Antenna 1a (Bluetooth (HDR8), 8Mbps, ePA – Ch. 1)

FCC ID: BCGA3460 IC: 579C-A3460		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-23. 99% OBW Plot Antenna 1a (Bluetooth (HDR8), 8Mbps, ePA – Ch. 38)

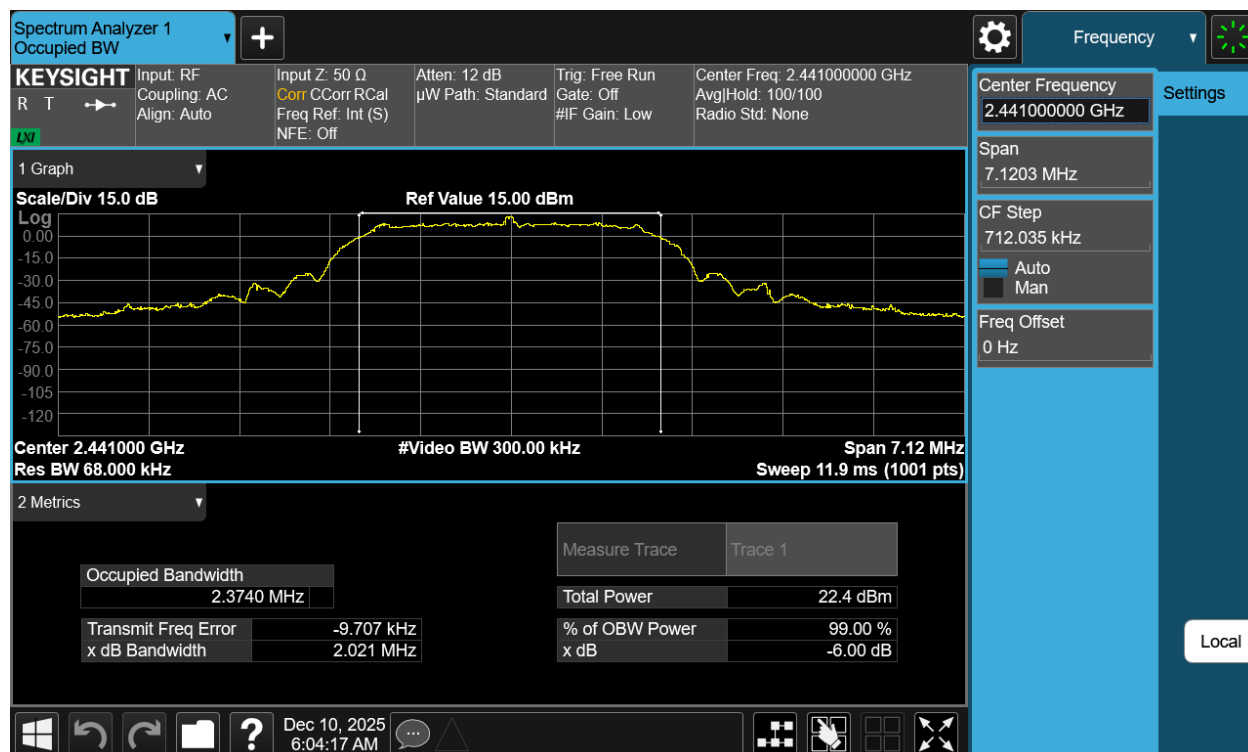


Plot 7-24. 99% OBW Plot Antenna 1a (Bluetooth (HDR8), 8Mbps, ePA – Ch. 73)

FCC ID: BCGA3460 IC: 579C-A3460		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-25. 99% OBW Plot Antenna 1a (Bluetooth (HDRPS2), 2Mbps, ePA – Ch. 1)



Plot 7-26. 99% OBW Plot Antenna 1a (Bluetooth (HDRPS2), 2Mbps, ePA – Ch. 38)

FCC ID: BCGA3460 IC: 579C-A3460		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-27. 99% OBW Plot Antenna 1a (Bluetooth (HDRPS2), 2Mbps, ePA – Ch. 73)

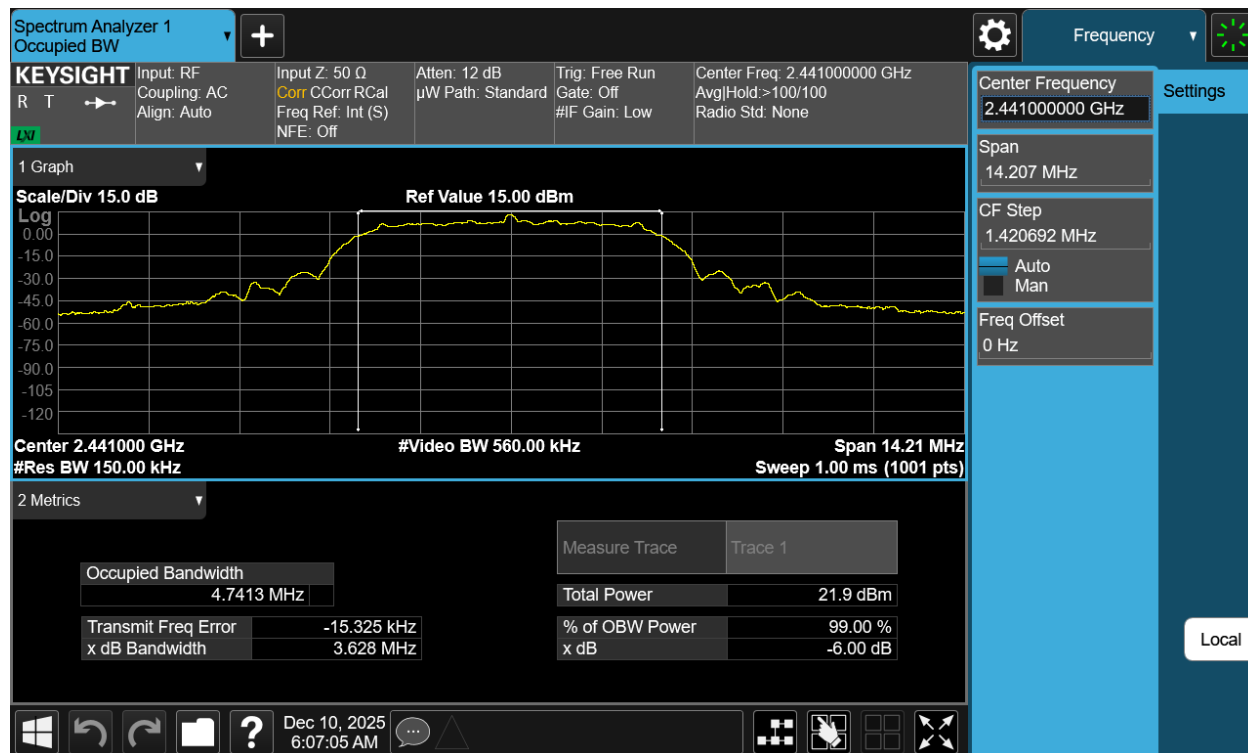


Plot 7-28. 99% OBW Plot Antenna 1a (Bluetooth (XHDRPM6), 6Mbps, ePA – Ch. 1)

FCC ID: BCGA3460 IC: 579C-A3460		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-29. 99% OBW Plot Antenna 1a (Bluetooth (XHDRPM6), 6Mbps, ePA – Ch. 38)



Plot 7-30. 99% OBW Plot Antenna 1a (Bluetooth (XHDRPM6), 6Mbps, ePA – Ch. 73)

FCC ID: BCGA3460 IC: 579C-A3460		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-31. 99% OBW Plot Antenna 1a (Bluetooth (HDRPM16), 16Mbps, ePA – Ch. 1)



Plot 7-32. 99% OBW Plot Antenna 1a (Bluetooth (HDRPM16), 16Mbps, ePA – Ch. 38)

FCC ID: BCGA3460 IC: 579C-A3460		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-33. 99% OBW Plot Antenna 1a (Bluetooth (HDRPM16), 16Mbps, ePA – Ch. 73)



Plot 7-34. 99% OBW Plot Antenna 1a (Bluetooth (HDT2), 2Mbps, ePA – Ch. 1)

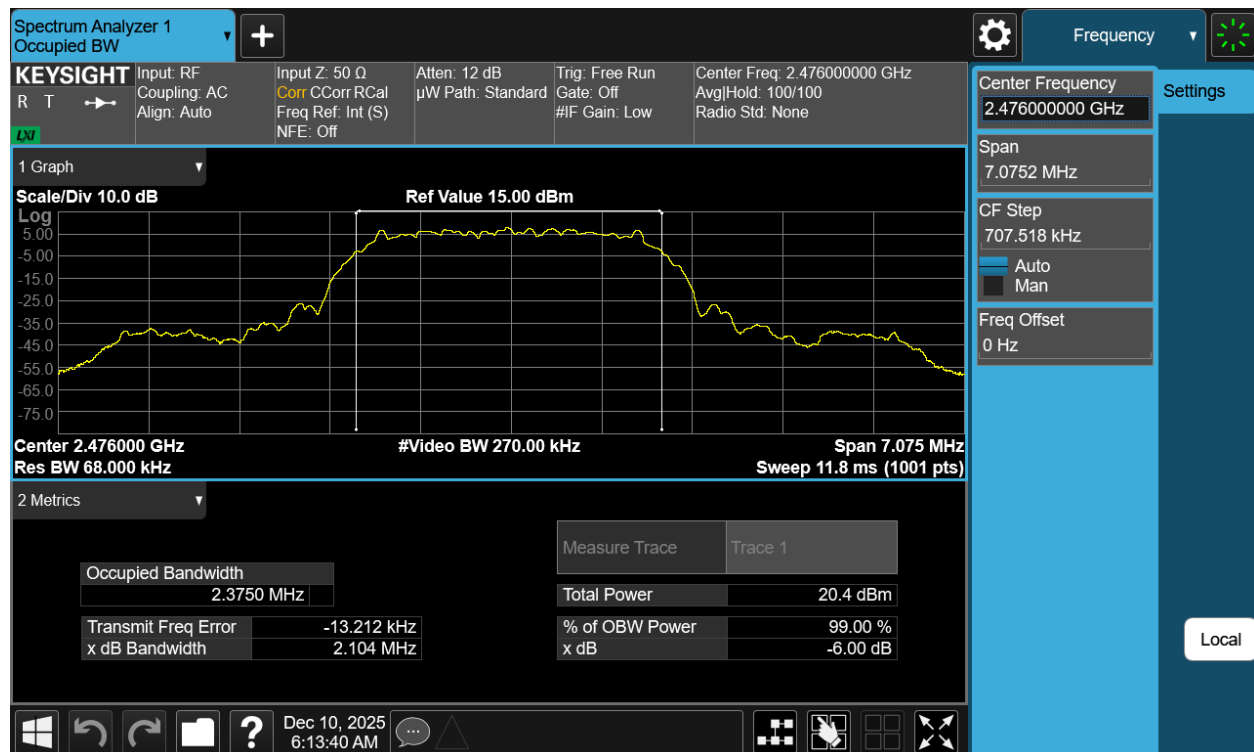
FCC ID: BCGA3460 IC: 579C-A3460		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100080-16-R4.BCG	Test Dates: 09/11/2025 - 12/10/2025	EUT Type: Tablet Device	Page 37 of 221

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Plot 7-35. 99% OBW Plot Antenna 1a (Bluetooth (HDT2), 2Mbps, ePA – Ch. 37)



Plot 7-36. 99% OBW Plot Antenna 1a (Bluetooth (HDT2), 2Mbps, ePA – Ch. 73)

FCC ID: BCGA3460 IC: 579C-A3460		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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7.3 6 dB Bandwidth Measurement

§15.247(a)(2); RSS-247 [6.3.1(a)]

Test Overview and Limit

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

The minimum permissible 6dB bandwidth is 500 kHz.

Test Procedure Used

ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024 – Subclause 11.8.2 Option 2
KDB 558074 D01 v05r02 – Section 8.2

Test Settings

1. The signal analyzers' automatic bandwidth measurement capability of the spectrum analyzer was used to perform the 6dB bandwidth measurement. The "X" dB bandwidth parameter was set to $X = 6$. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
2. RBW = 100kHz
3. VBW $\geq 3 \times$ RBW
4. Detector = Peak
5. Trace mode = max hold
6. Sweep = auto couple
7. The trace was allowed to stabilize

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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

All supported modulation, antenna (including TxBF mode) and power schemes have been tested on the unit and only worst case configuration is reported.

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7.3.1 Antenna 3a

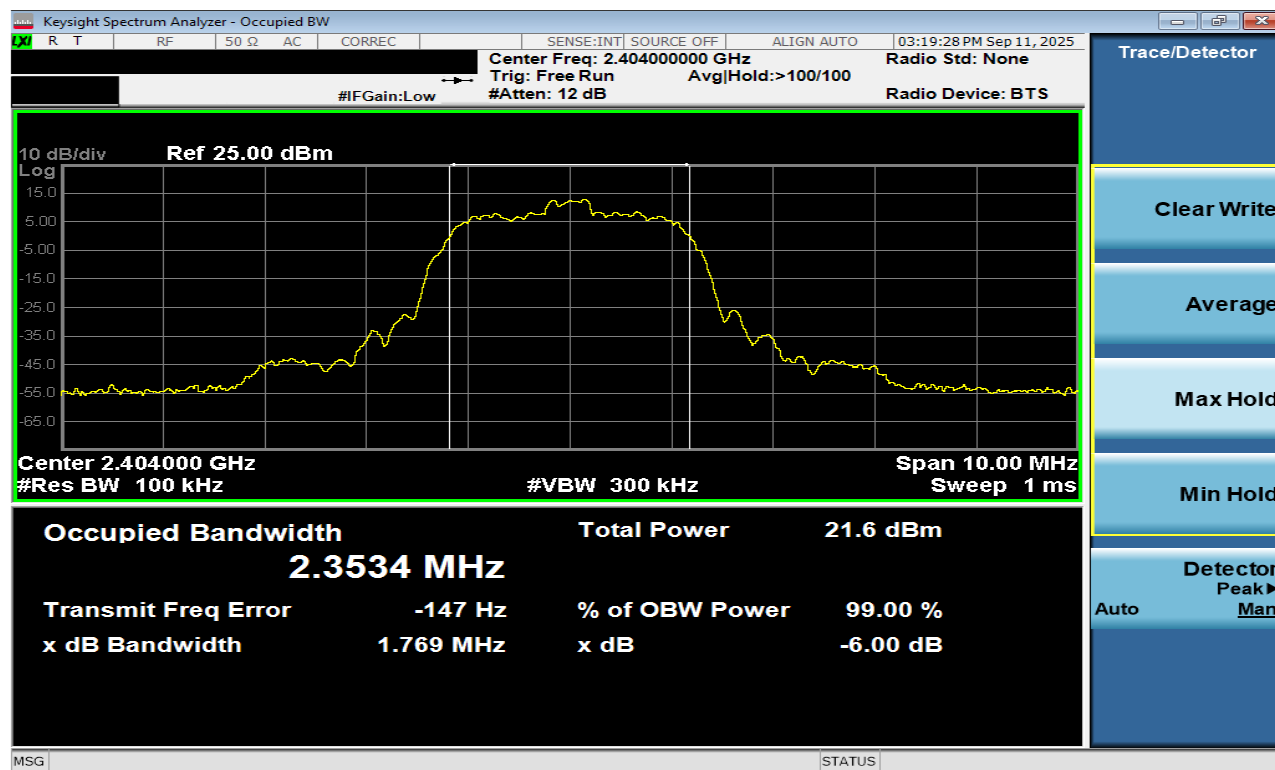
Frequency [MHz]	Mode	Power Scheme	Channel	Measured 6dB Bandwidth [MHz]	Minimum 6dB Bandwidth [MHz]	Pass/Fail
2404	HDR4	ePA	1	1.77	0.50	Pass
2441	HDR4	ePA	38	1.59	0.50	Pass
2476	HDR4	ePA	73	1.68	0.50	Pass
2404	HDR8	ePA	1	0.56	0.50	Pass
2441	HDR8	ePA	38	0.90	0.50	Pass
2476	HDR8	ePA	73	0.88	0.50	Pass
2404	HDRPS2	ePA	1	2.09	0.50	Pass
2441	HDRPS2	ePA	38	2.09	0.50	Pass
2476	HDRPS2	ePA	73	2.09	0.50	Pass
2404	XHDRPM6	ePA	1	4.07	0.50	Pass
2441	XHDRPM6	ePA	38	4.06	0.50	Pass
2476	XHDRPM6	ePA	73	4.06	0.50	Pass
2404	HDRPM16	ePA	1	1.18	0.50	Pass
2441	HDRPM16	ePA	38	1.21	0.50	Pass
2476	HDRPM16	ePA	73	2.56	0.50	Pass
2404	HDT2	ePA	1	2.12	0.50	Pass
2440	HDT2	ePA	37	2.12	0.50	Pass
2476	HDT2	ePA	73	2.12	0.50	Pass

Table 7-4. 6dB BW Measurements Antenna 3a

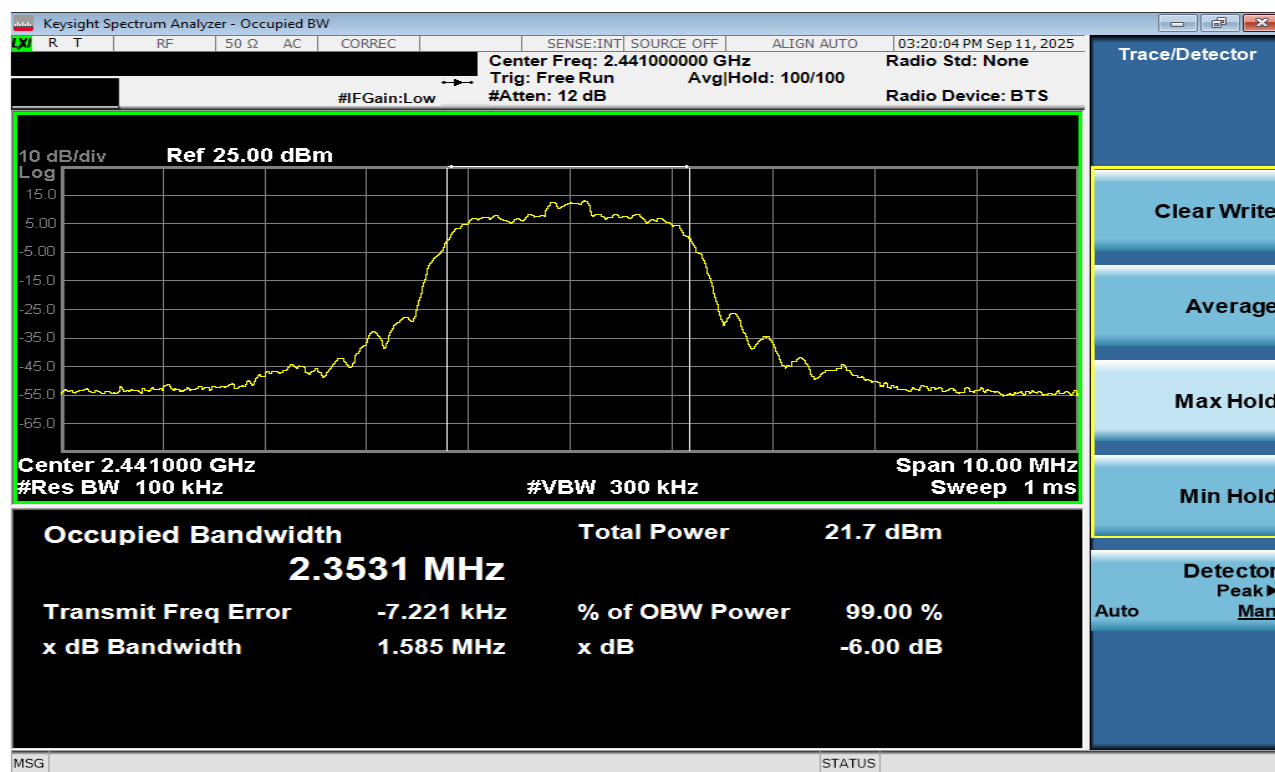
FCC ID: BCGA3460 IC: 579C-A3460		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-37. 6dB BW Plot Antenna 3a (Bluetooth (HDR4), 4Mbps, ePA – Ch. 1)

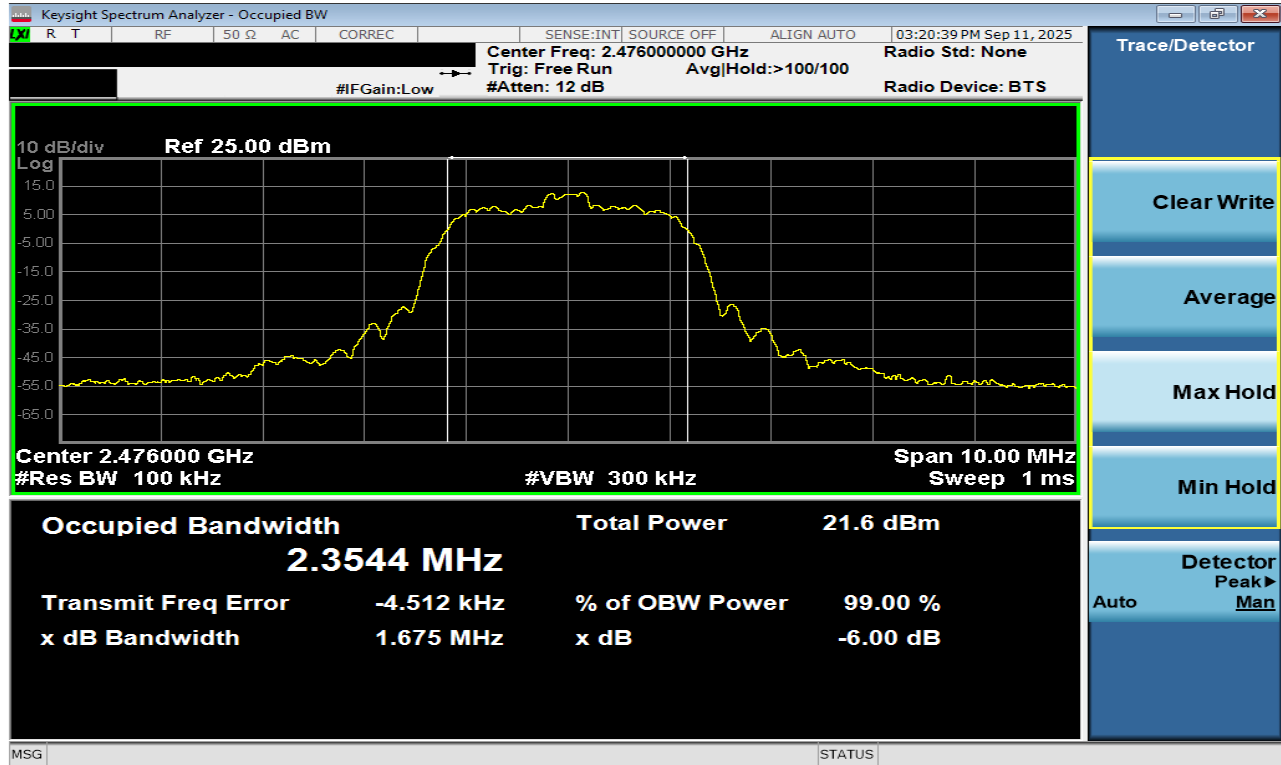


Plot 7-38. 6dB BW Plot Antenna 3a (Bluetooth (HDR4), 4Mbps, ePA – Ch. 38)

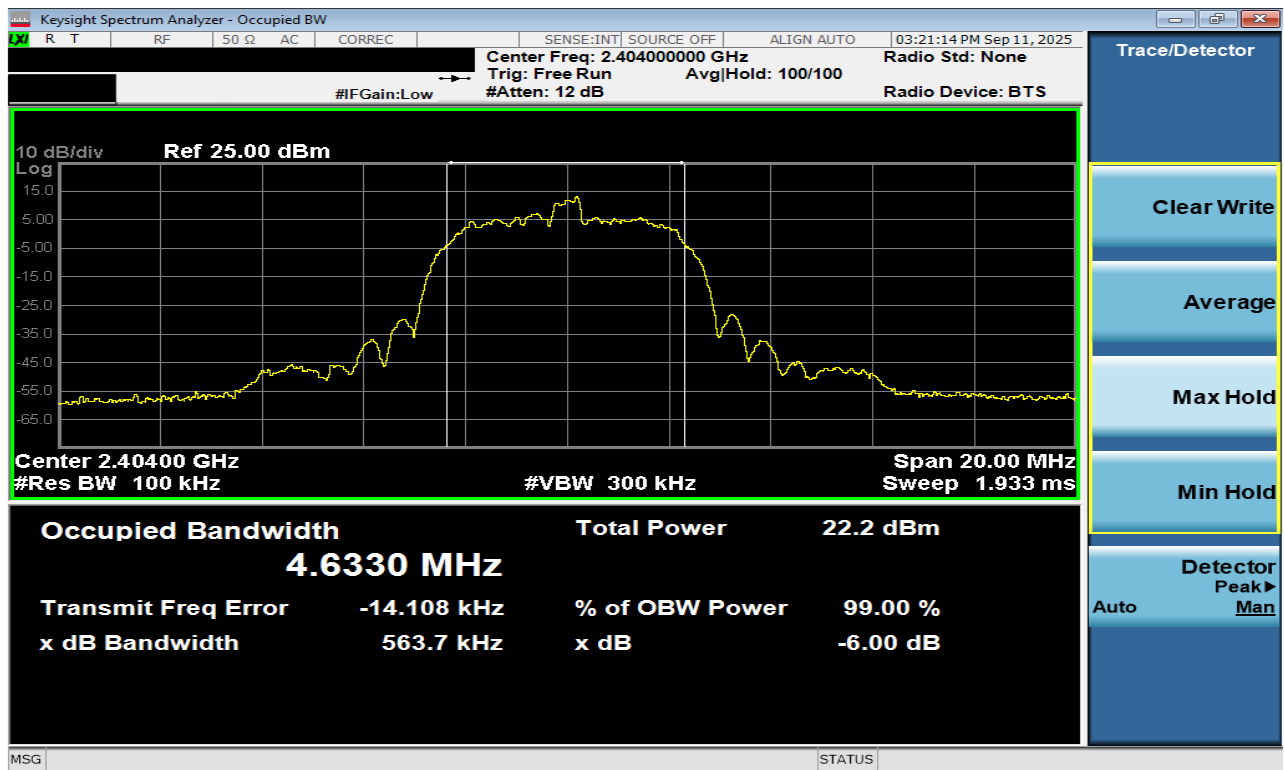
FCC ID: BCGA3460 IC: 579C-A3460		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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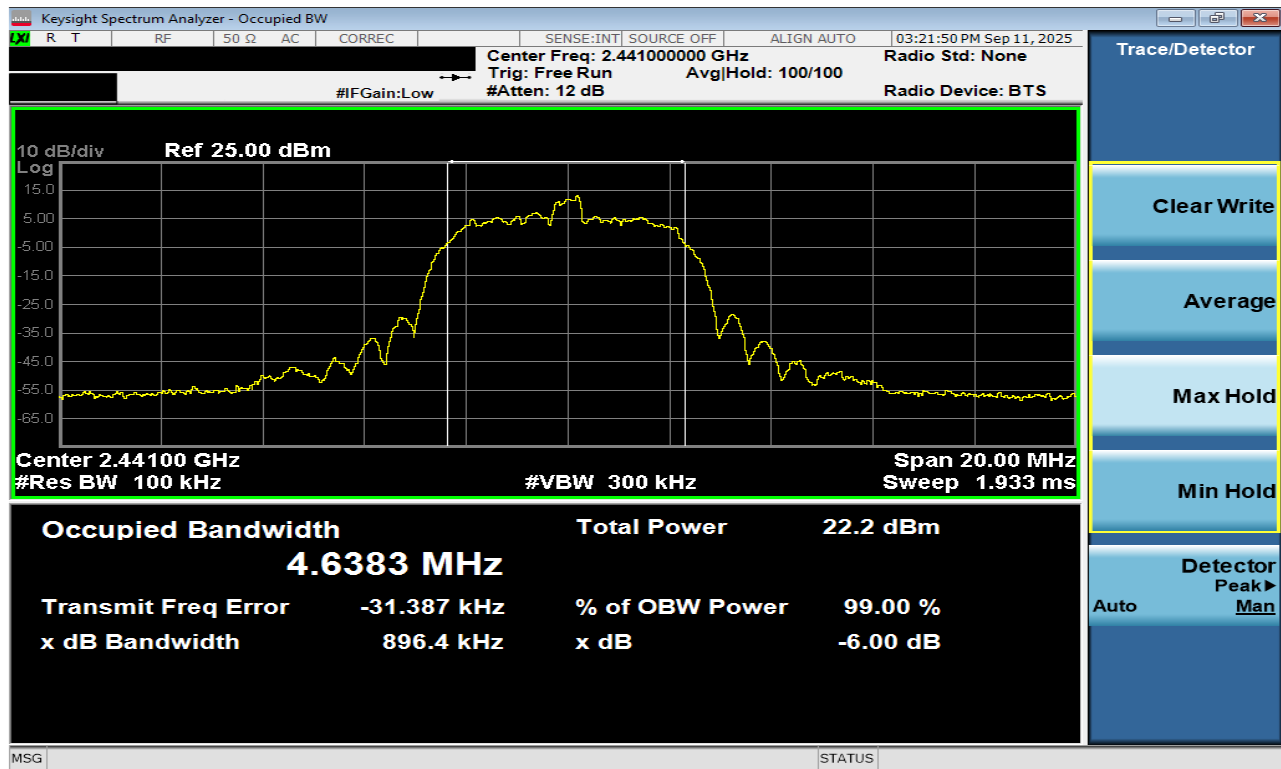


Plot 7-39. 6dB BW Plot Antenna 3a (Bluetooth (HDR4), 4Mbps, ePA – Ch. 73)

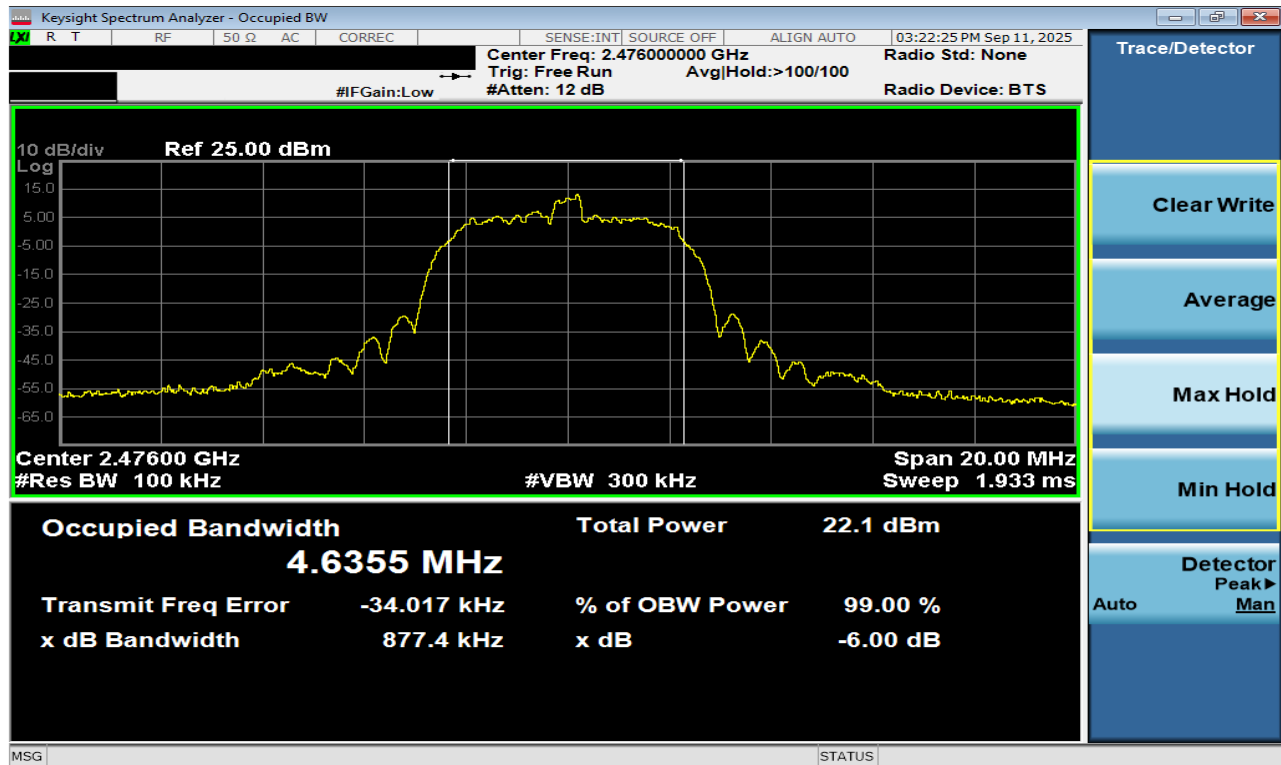


Plot 7-40. 6dB BW Plot Antenna 3a (Bluetooth (HDR8), 8Mbps, ePA – Ch. 1)

FCC ID: BCGA3460 IC: 579C-A3460		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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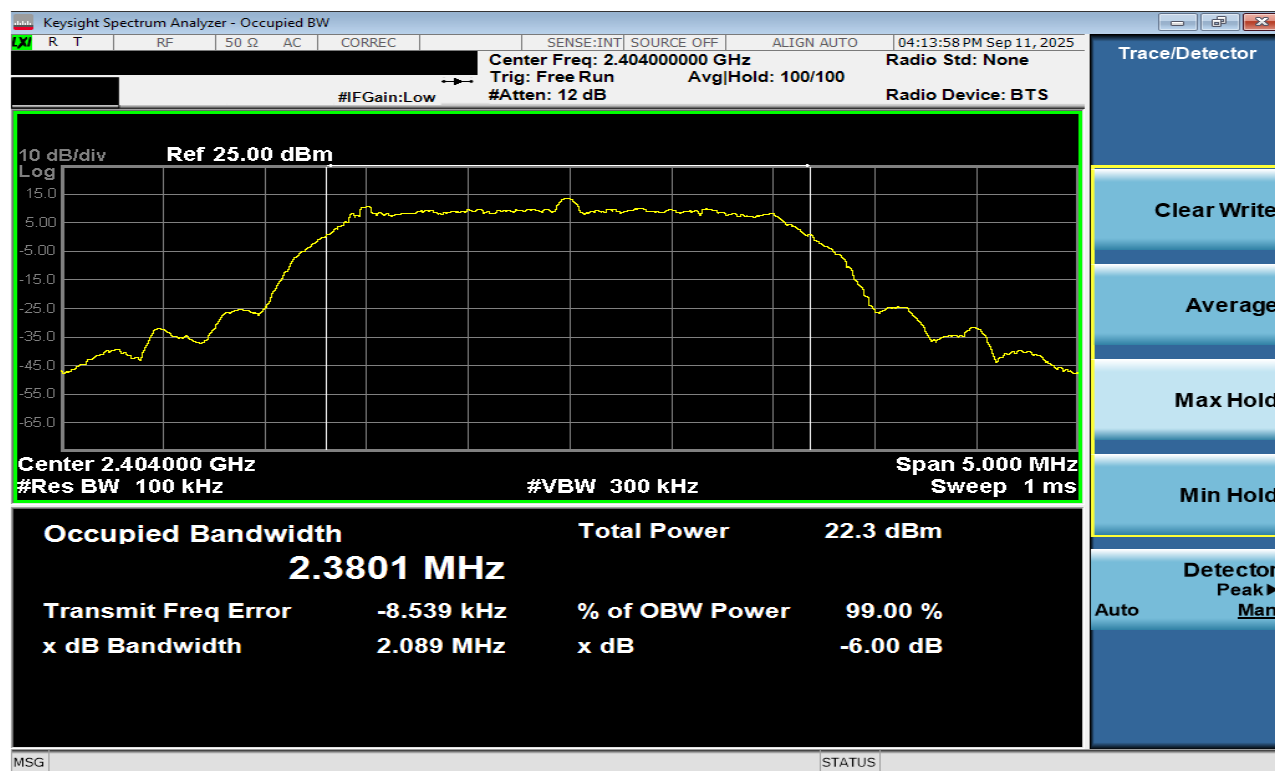


Plot 7-41. 6dB BW Plot Antenna 3a (Bluetooth (HDR8), 8Mbps, ePA – Ch. 38)

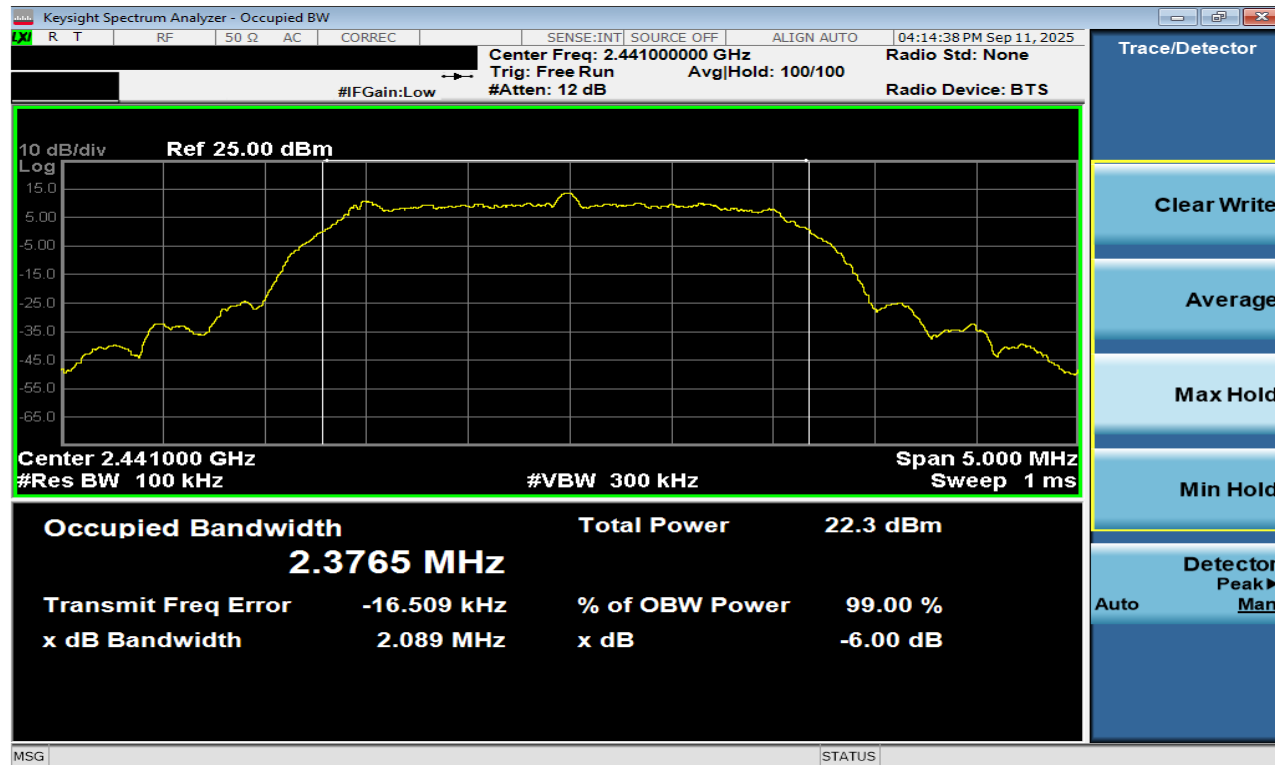


Plot 7-42. 6dB BW Plot Antenna 3a (Bluetooth (HDR8), 8Mbps, ePA – Ch. 73)

FCC ID: BCGA3460 IC: 579C-A3460	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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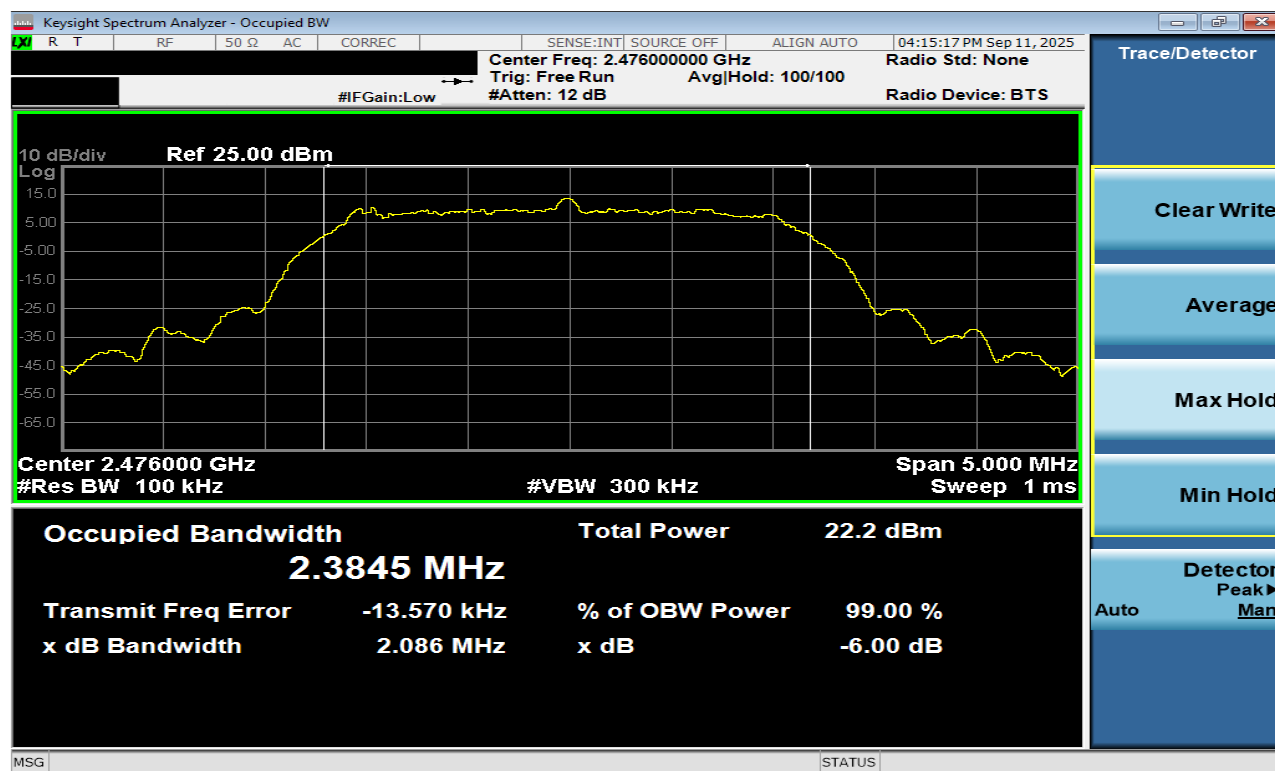
Plot 7-43. 6dB BW Plot Antenna 3a (Bluetooth (HDRPS2), 2Mbps, ePA – Ch. 1)



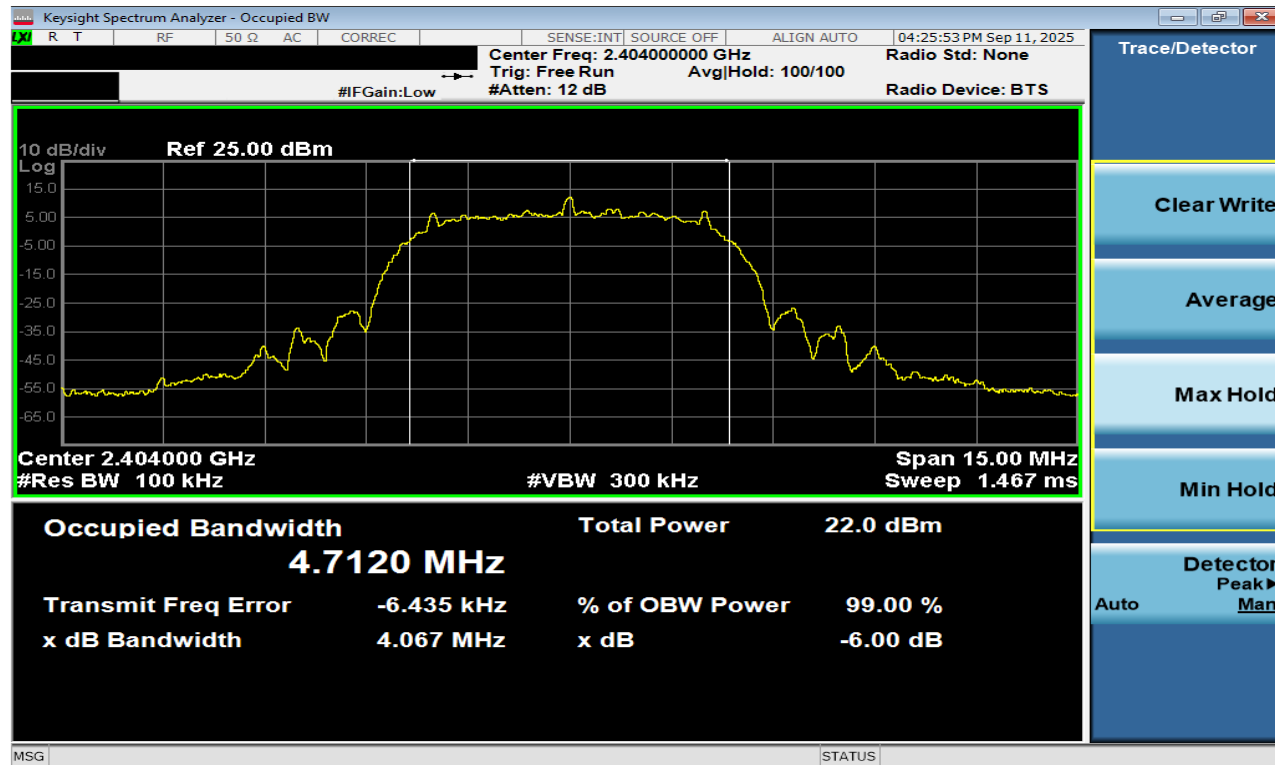
Plot 7-44. 6dB BW Plot Antenna 3a (Bluetooth (HDRPS2), 2Mbps, ePA – Ch. 38)

FCC ID: BCGA3460 IC: 579C-A3460	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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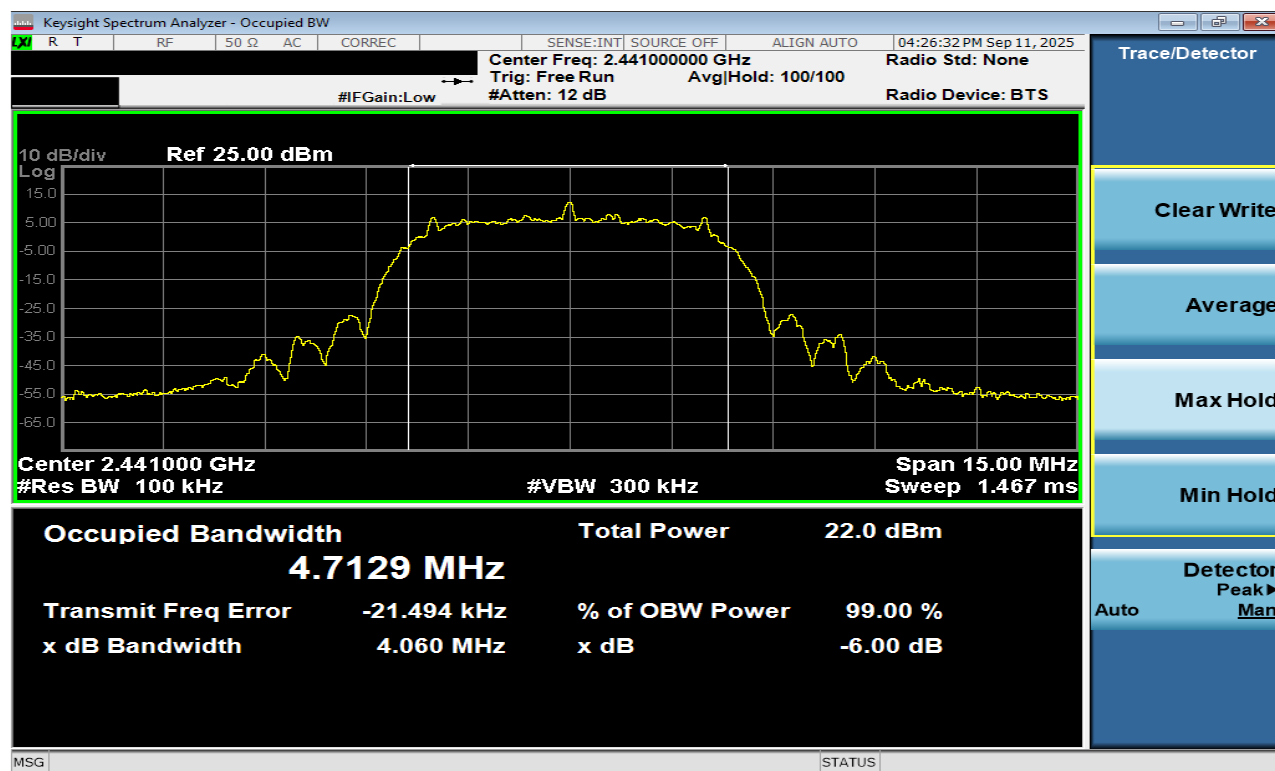
Plot 7-45. 6dB BW Plot Antenna 3a (Bluetooth (HDRPS2), 2Mbps, ePA – Ch. 73)



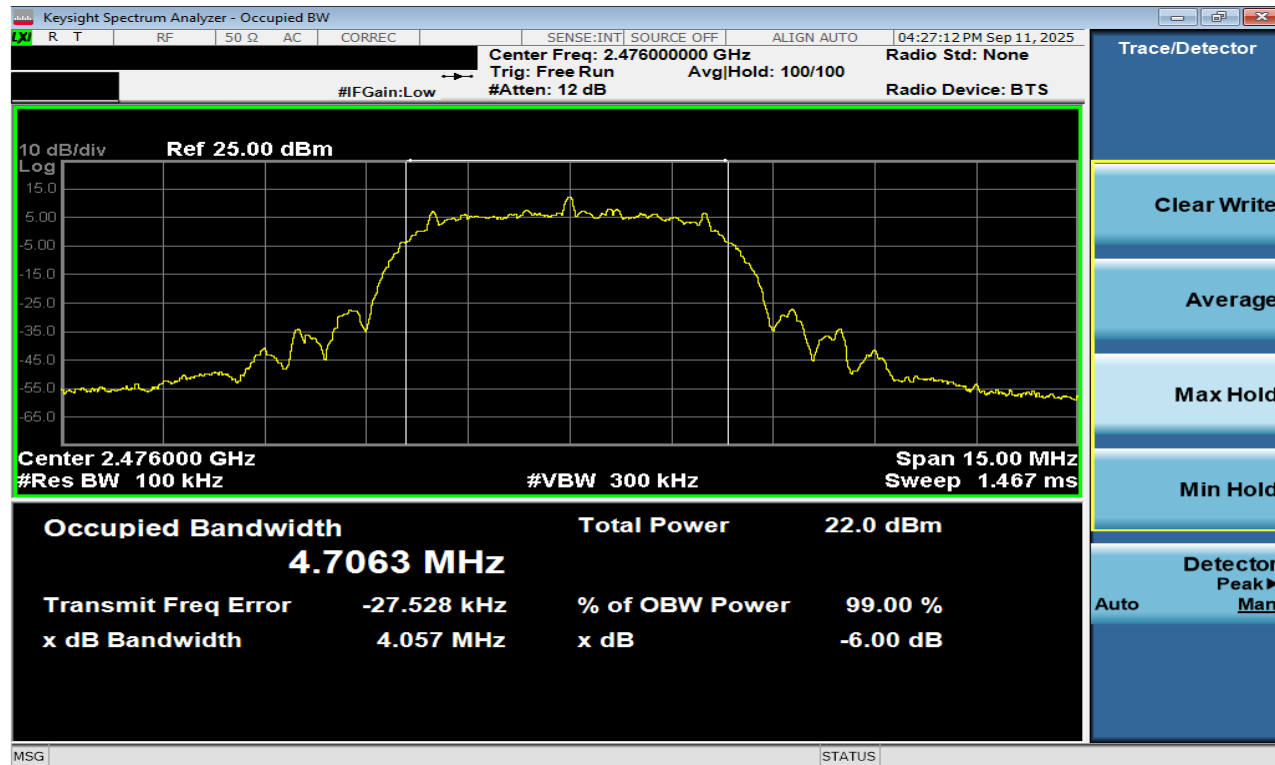
Plot 7-46. 6dB BW Plot Antenna 3a (Bluetooth (XHDRPM6), 6Mbps, ePA – Ch. 1)

FCC ID: BCGA3460 IC: 579C-A3460		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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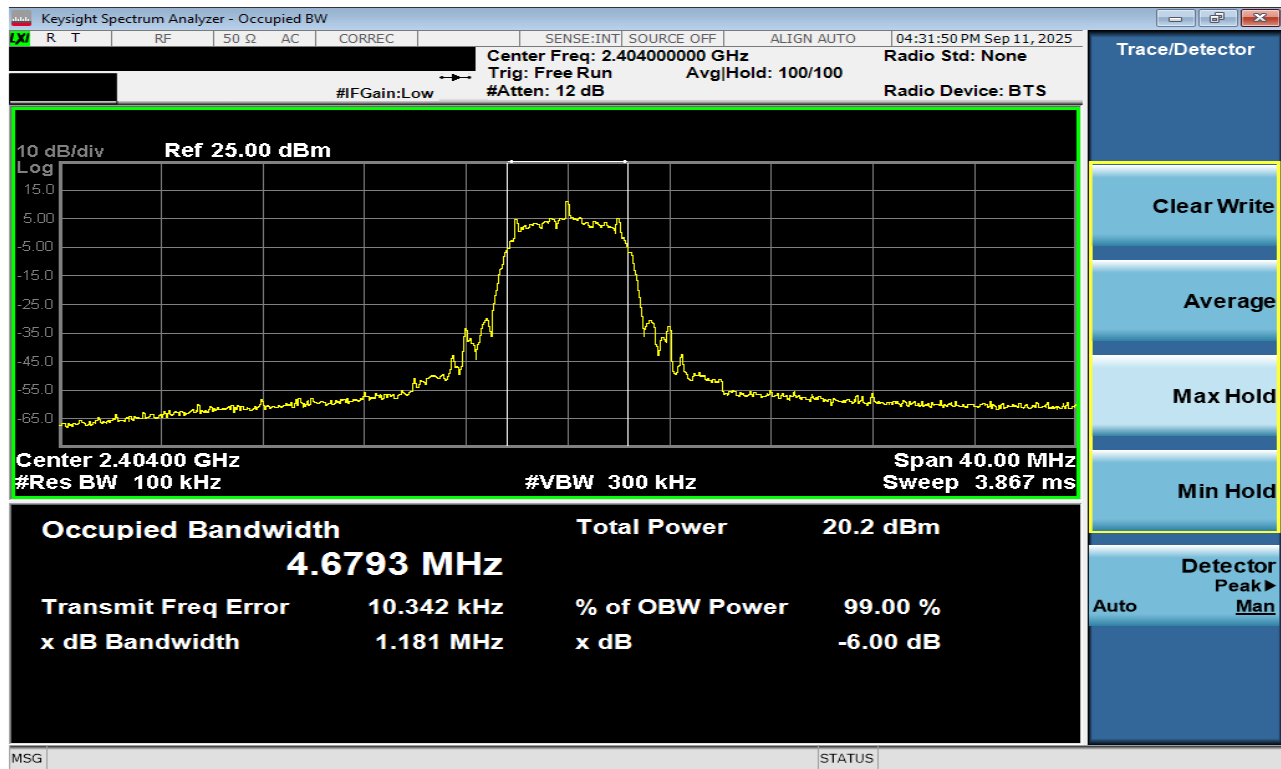
Plot 7-47. 6dB BW Plot Antenna 3a (Bluetooth (XHDRPM6), 6Mbps, ePA – Ch. 38)



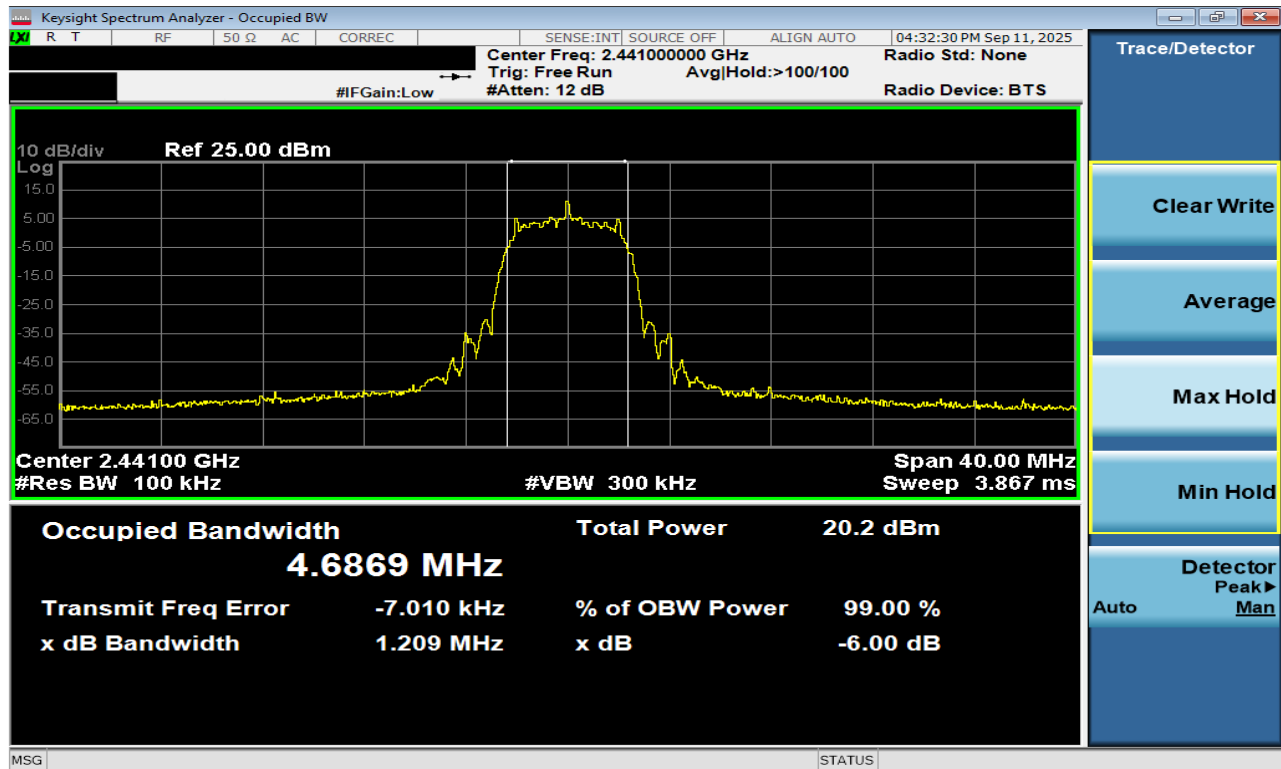
Plot 7-48. 6dB BW Plot Antenna 3a (Bluetooth (XHDRPM6), 6Mbps, ePA – Ch. 73)

FCC ID: BCGA3460 IC: 579C-A3460	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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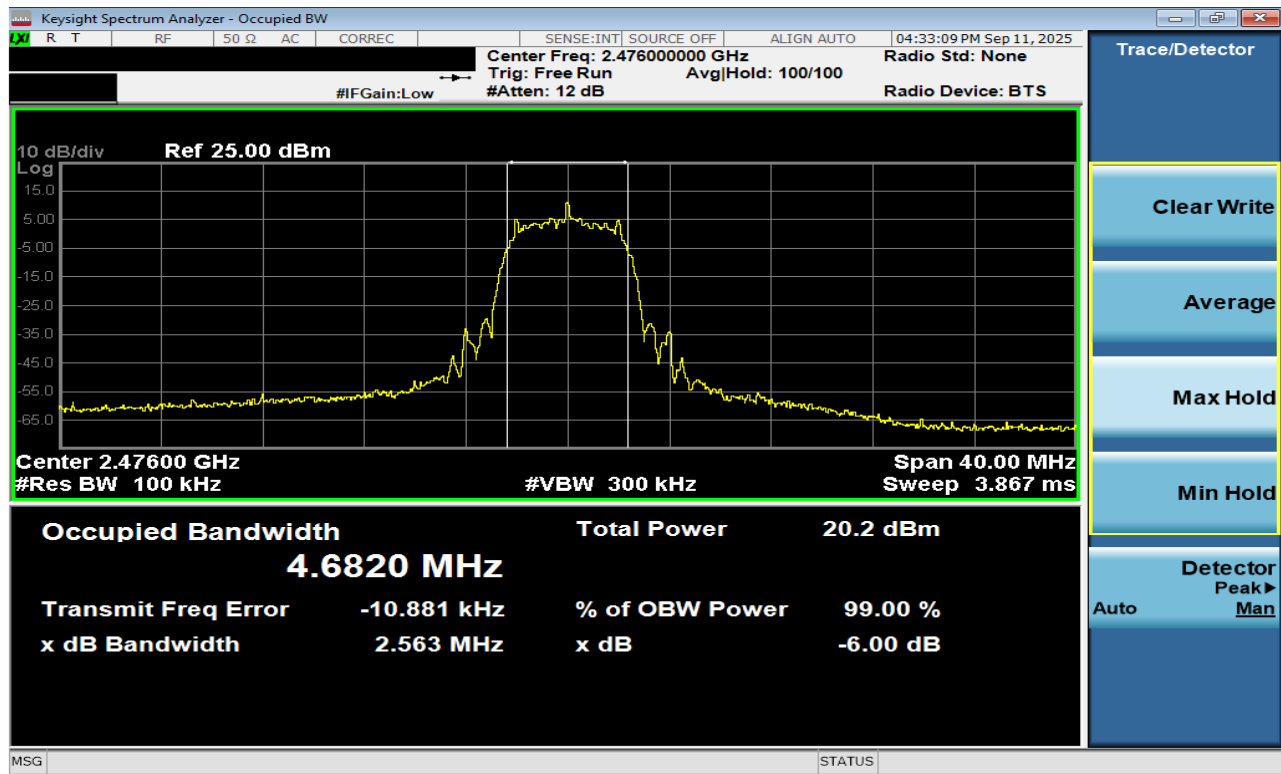


Plot 7-49. 6dB BW Plot Antenna 3a (Bluetooth (HDRPM16), 16Mbps, ePA – Ch. 1)

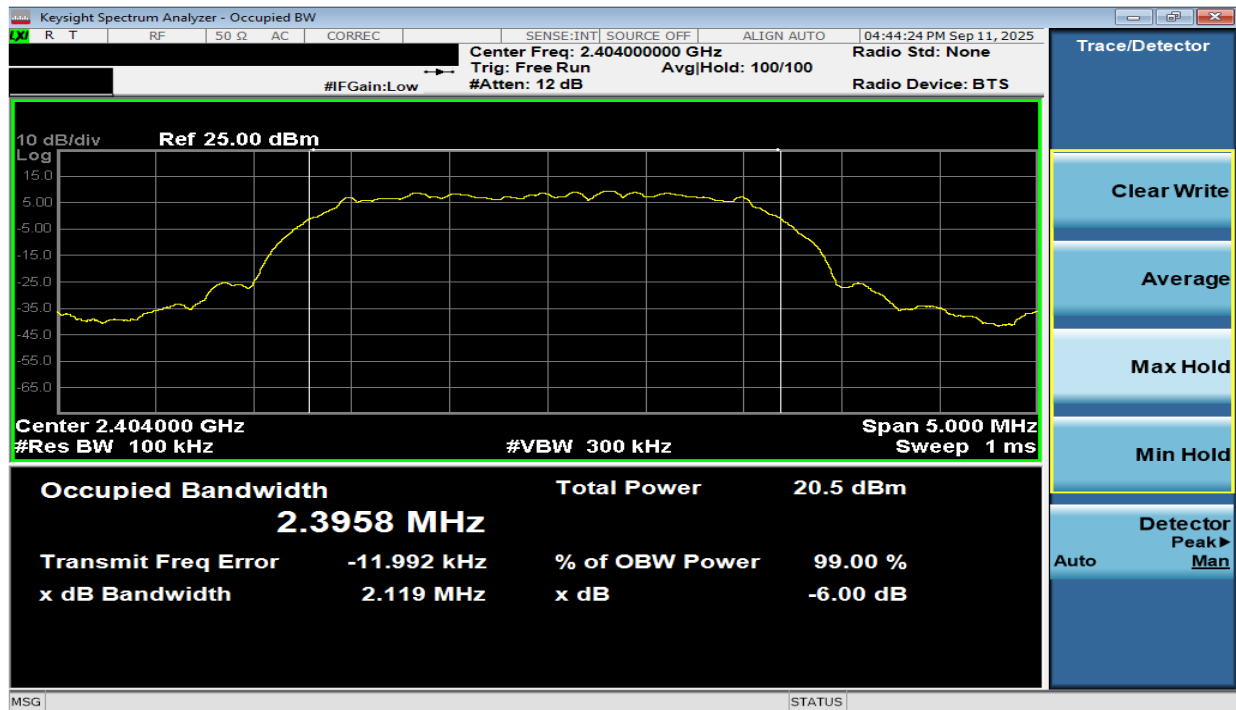


Plot 7-50. 6dB BW Plot Antenna 3a (Bluetooth (HDRPM16), 16Mbps, ePA – Ch. 38)

FCC ID: BCGA3460 IC: 579C-A3460		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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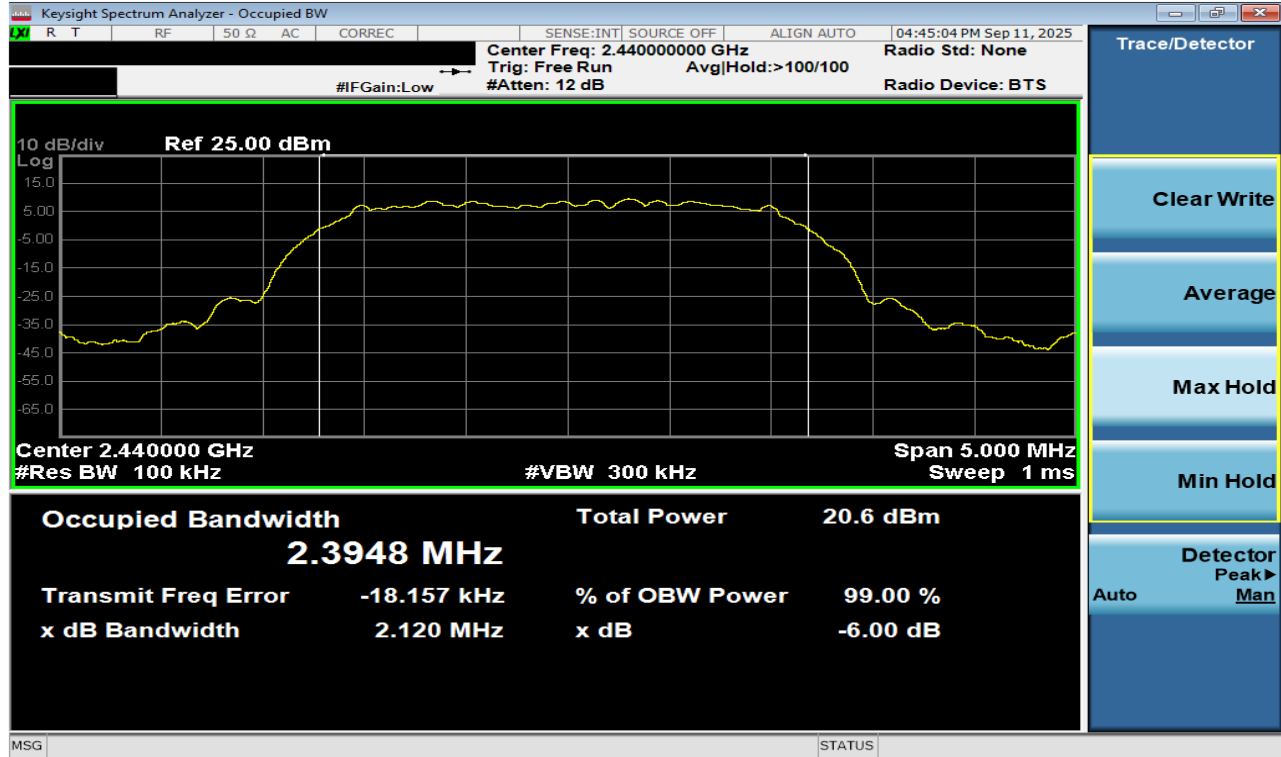


Plot 7-51. 6dB BW Plot Antenna 3a (Bluetooth (HDRPM16), 16Mbps, ePA – Ch. 73)

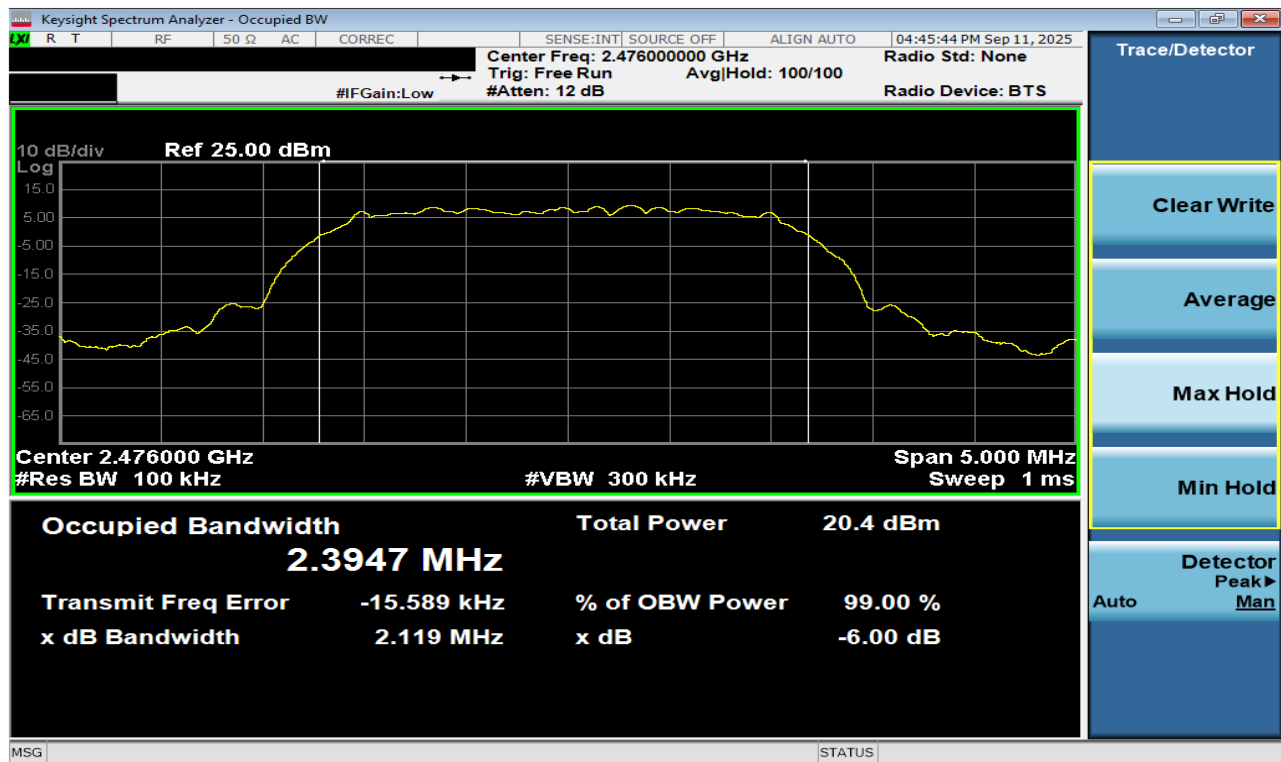


Plot 7-52. 6dB BW Plot Antenna 3a (Bluetooth (HDT2), 2Mbps, ePA – Ch. 1)

FCC ID: BCGA3460 IC: 579C-A3460		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-53. 6dB BW Plot Antenna 3a (Bluetooth (HDT2), 2Mbps, ePA – Ch. 37)



Plot 7-54. 6dB BW Plot Antenna 3a (Bluetooth (HDT2), 2Mbps, ePA – Ch. 73)

FCC ID: BCGA3460 IC: 579C-A3460	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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7.3.2 Antenna 1a

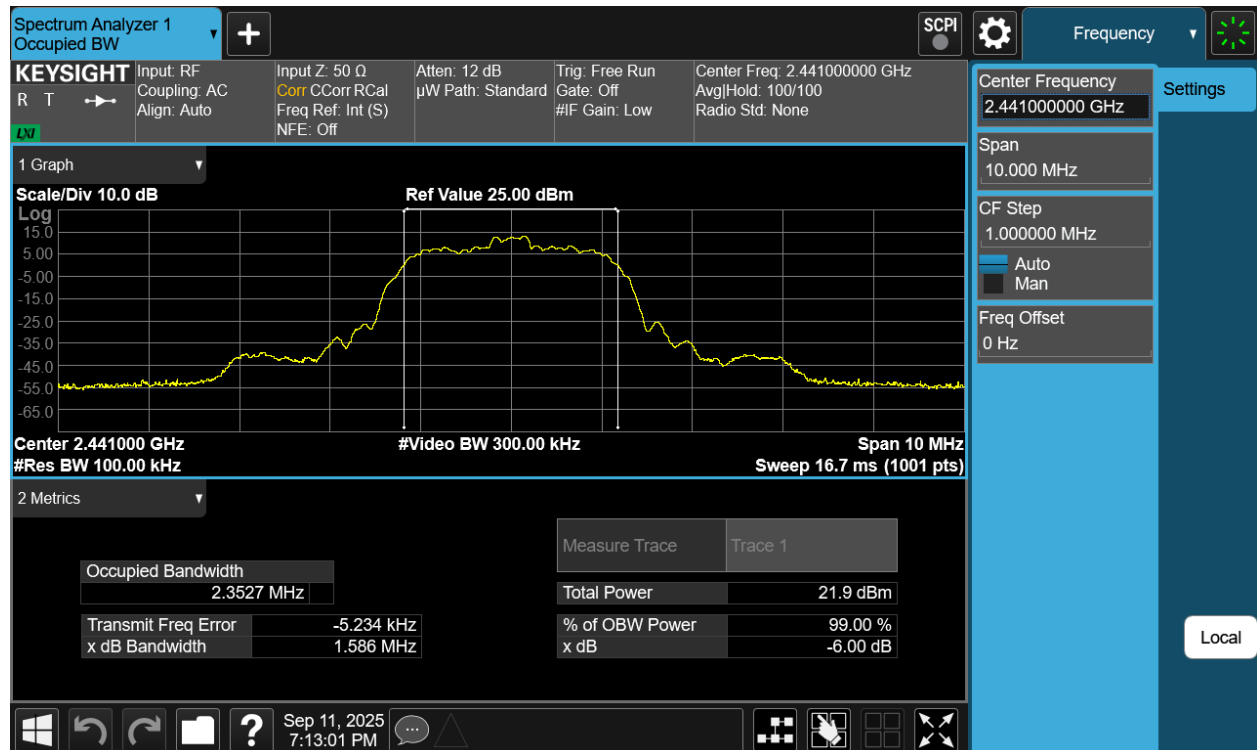
Frequency [MHz]	Mode	Power Scheme	Channel	Measured 6dB Bandwidth [MHz]	Minimum 6dB Bandwidth [MHz]	Pass/Fail
2404	HDR4	ePA	1	1.76	0.50	Pass
2441	HDR4	ePA	38	1.59	0.50	Pass
2476	HDR4	ePA	73	1.67	0.50	Pass
2404	HDR8	ePA	1	0.56	0.50	Pass
2441	HDR8	ePA	38	0.56	0.50	Pass
2476	HDR8	ePA	73	0.57	0.50	Pass
2404	HDRPS2	ePA	1	2.10	0.50	Pass
2441	HDRPS2	ePA	38	2.08	0.50	Pass
2476	HDRPS2	ePA	73	2.10	0.50	Pass
2404	XHDRPM6	ePA	1	4.06	0.50	Pass
2441	XHDRPM6	ePA	38	4.07	0.50	Pass
2476	XHDRPM6	ePA	73	4.08	0.50	Pass
2404	HDRPM16	ePA	1	4.07	0.50	Pass
2441	HDRPM16	ePA	38	1.21	0.50	Pass
2476	HDRPM16	ePA	73	2.57	0.50	Pass
2404	HDT2	ePA	1	2.12	0.50	Pass
2440	HDT2	ePA	37	2.12	0.50	Pass
2476	HDT2	ePA	73	2.12	0.50	Pass

Table 7-5. 6dB BW Measurements Antenna 1a

FCC ID: BCGA3460 IC: 579C-A3460		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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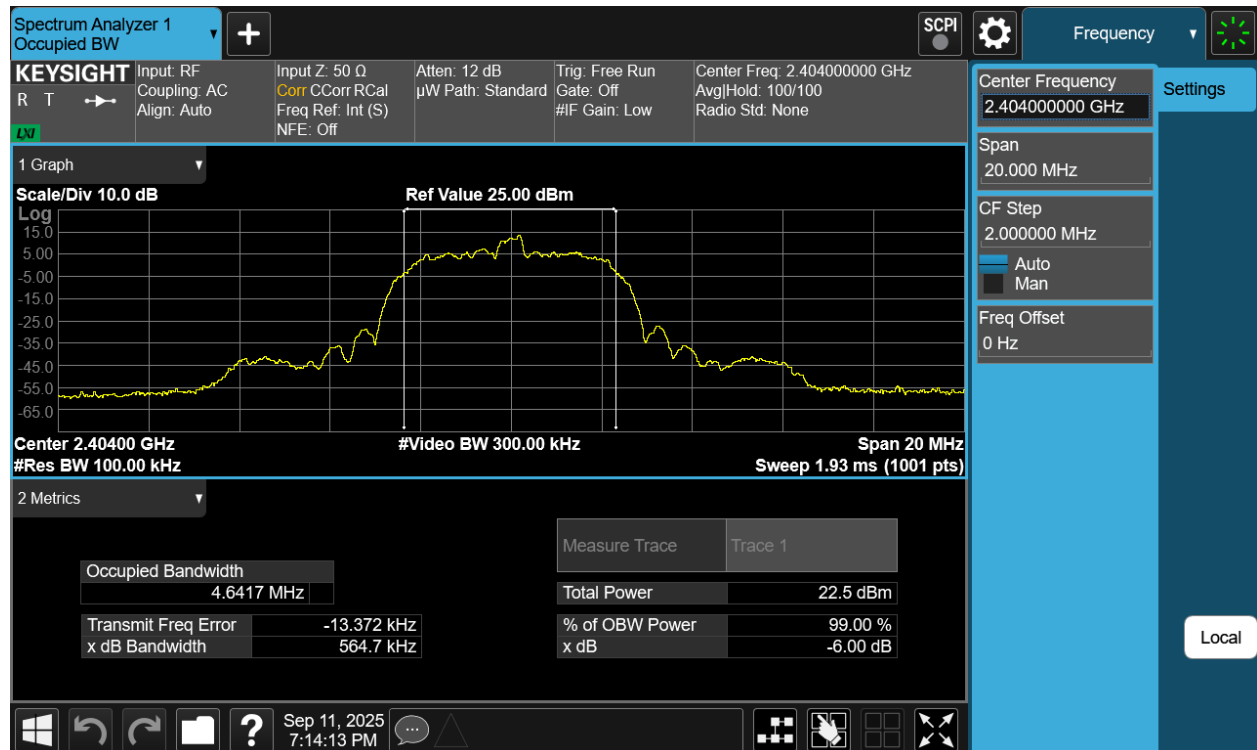
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Plot 7-57. 6dB BW Plot Antenna 1a (Bluetooth (HDR4), 4Mbps, ePA – Ch. 73)



Plot 7-58. 6dB BW Plot Antenna 1a (Bluetooth (HDR8), 8Mbps, ePA – Ch. 1)

FCC ID: BCGA3460 IC: 579C-A3460	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Plot 7-61. 6dB BW Plot Antenna 1a (Bluetooth (HDRPS2), 2Mbps, ePA – Ch. 1)

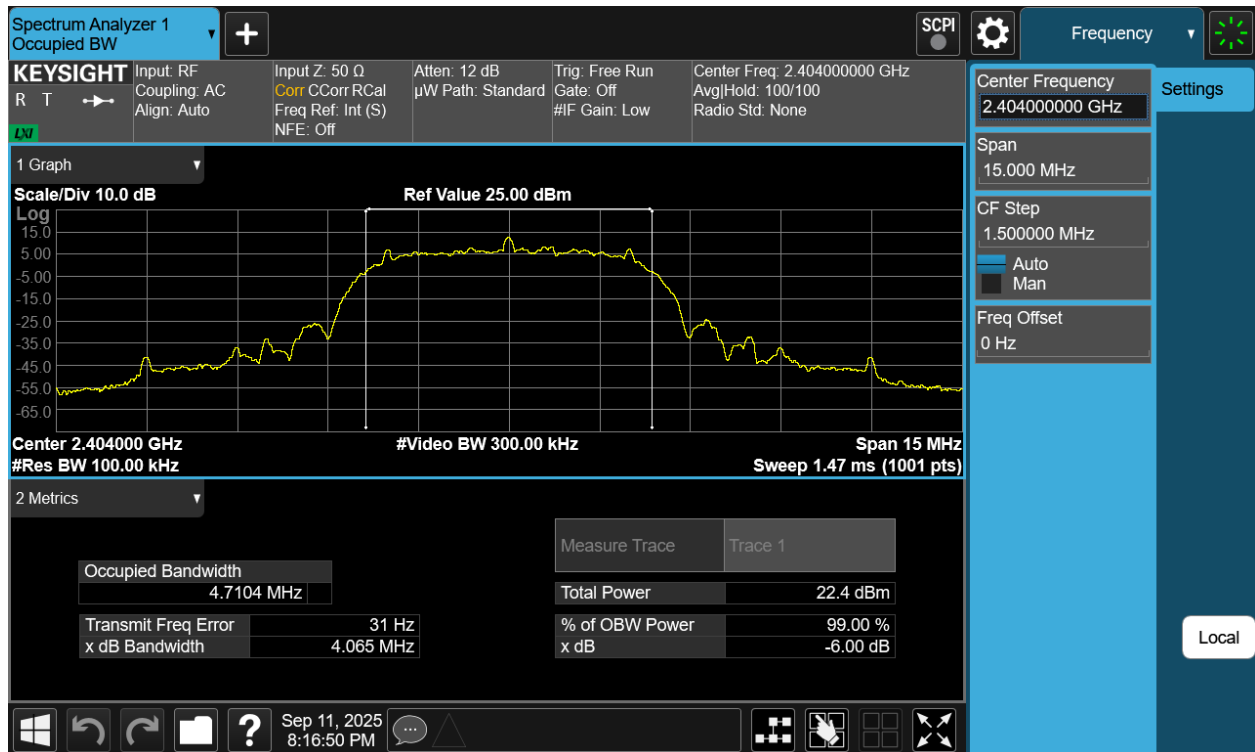
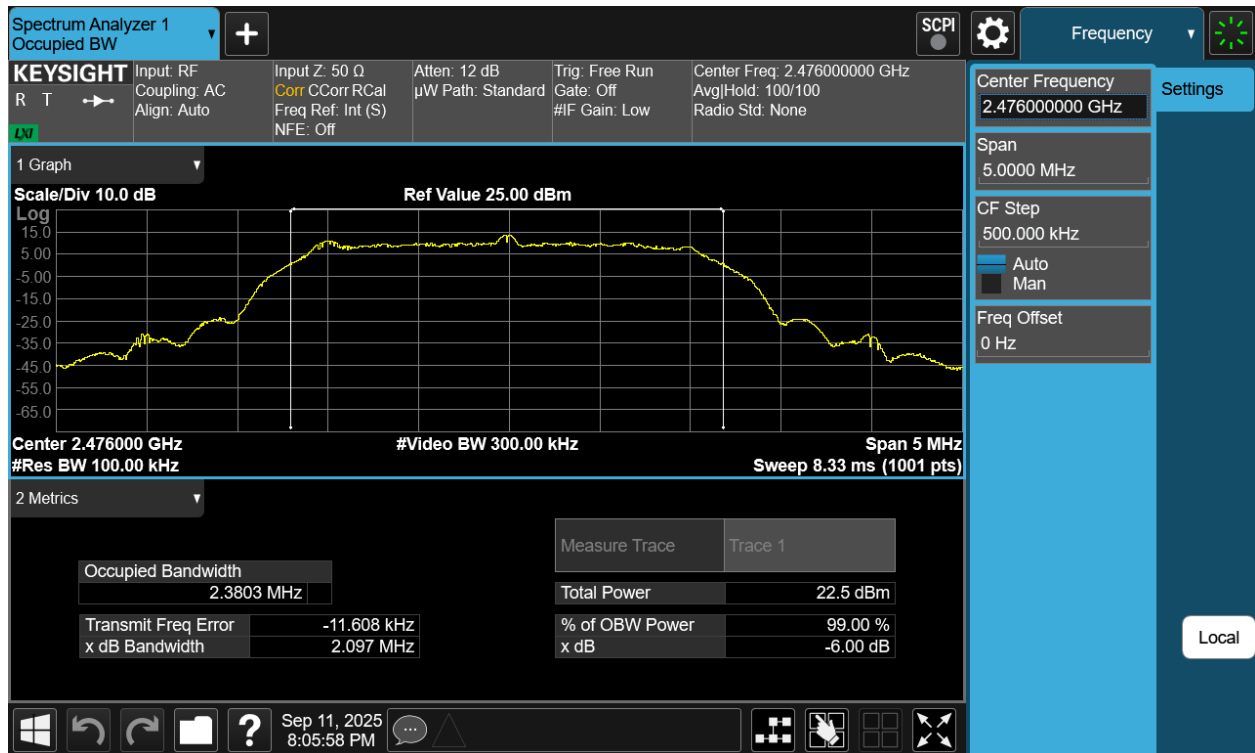


Plot 7-62. 6dB BW Plot Antenna 1a (Bluetooth (HDRPS2), 2Mbps, ePA – Ch. 38)

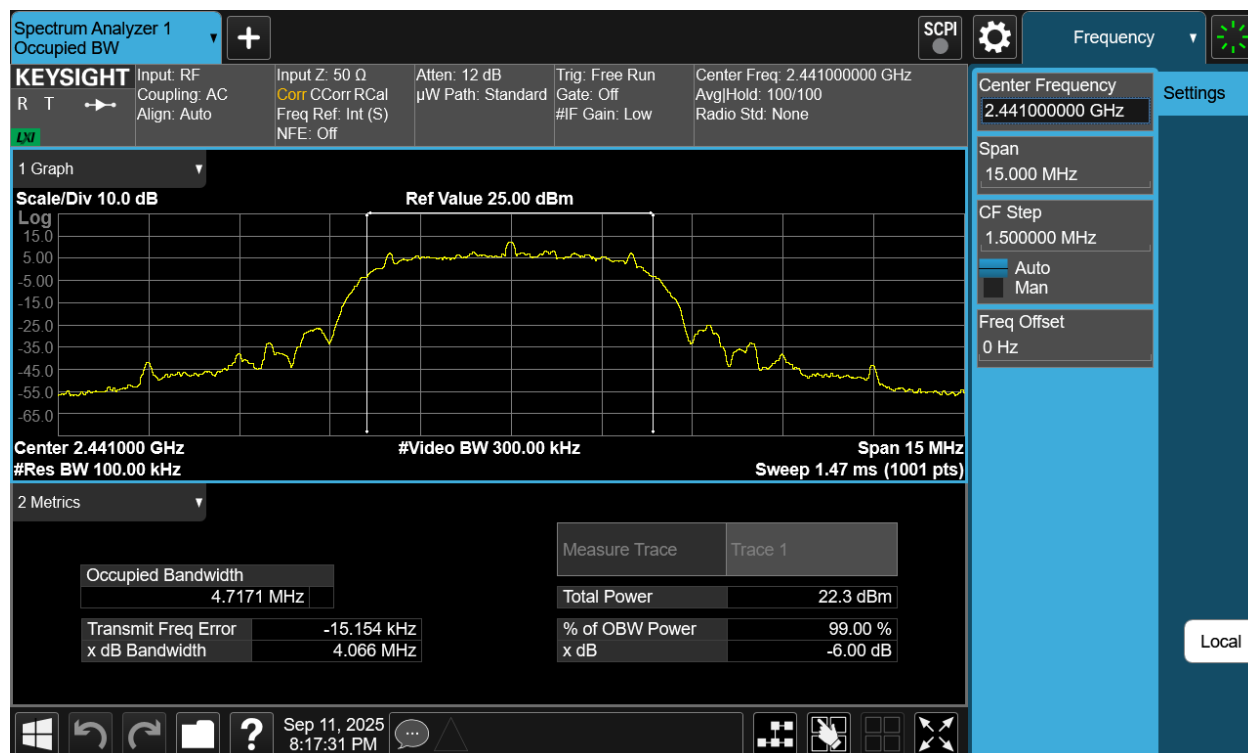
FCC ID: BCGA3460 IC: 579C-A3460	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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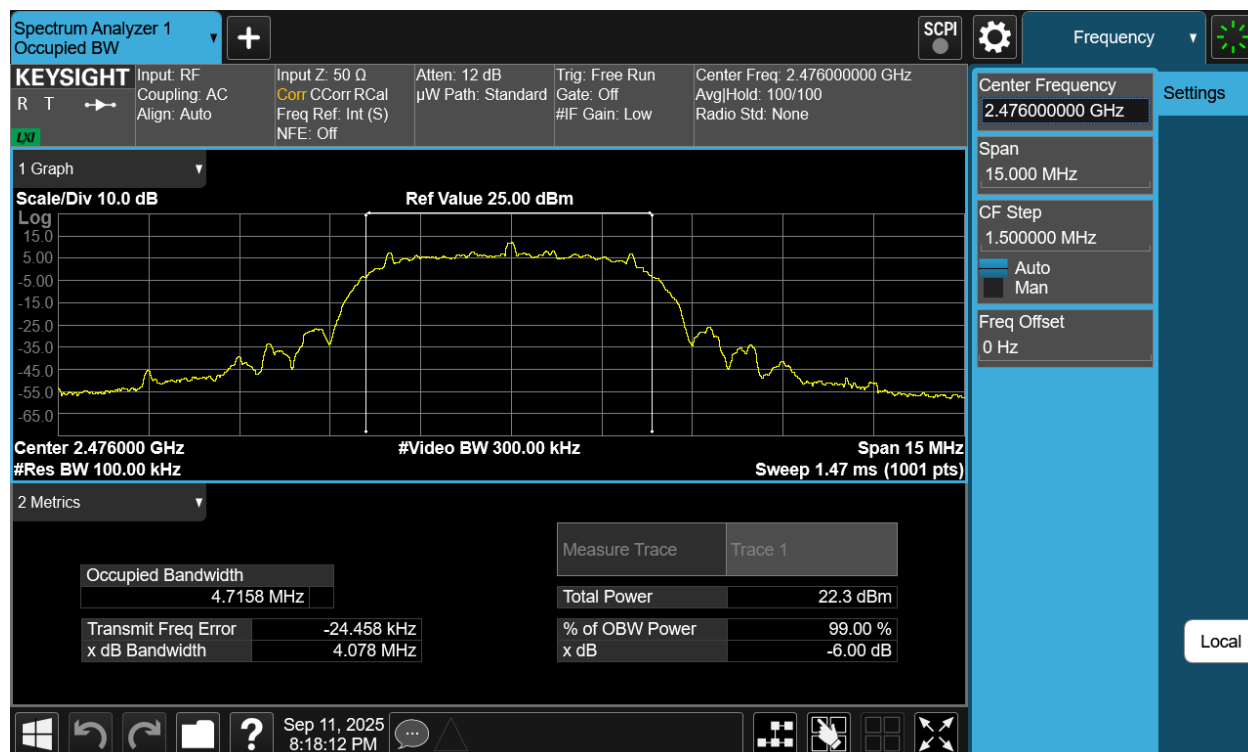
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Plot 7-65. 6dB BW Plot Antenna 1a (Bluetooth (XHDRPM6), 6Mbps, ePA – Ch. 38)

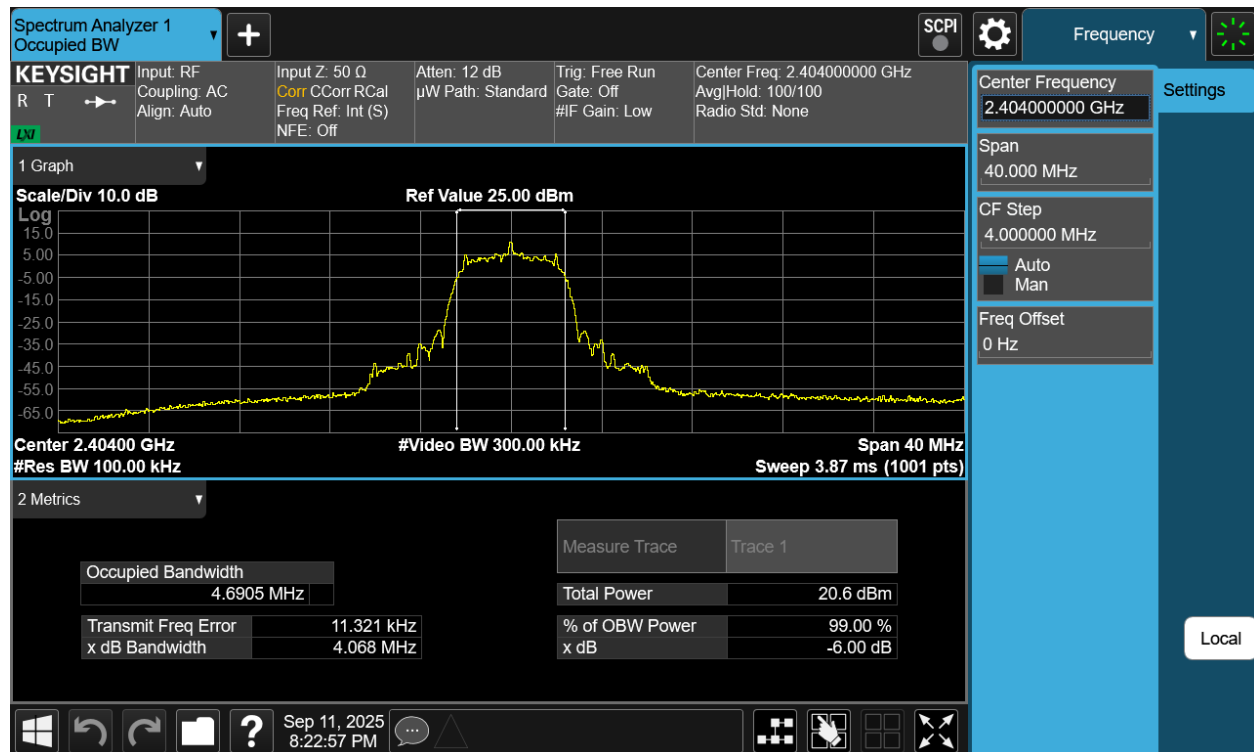


Plot 7-66. 6dB BW Plot Antenna 1a (Bluetooth (XHDRPM6), 6Mbps, ePA – Ch. 73)

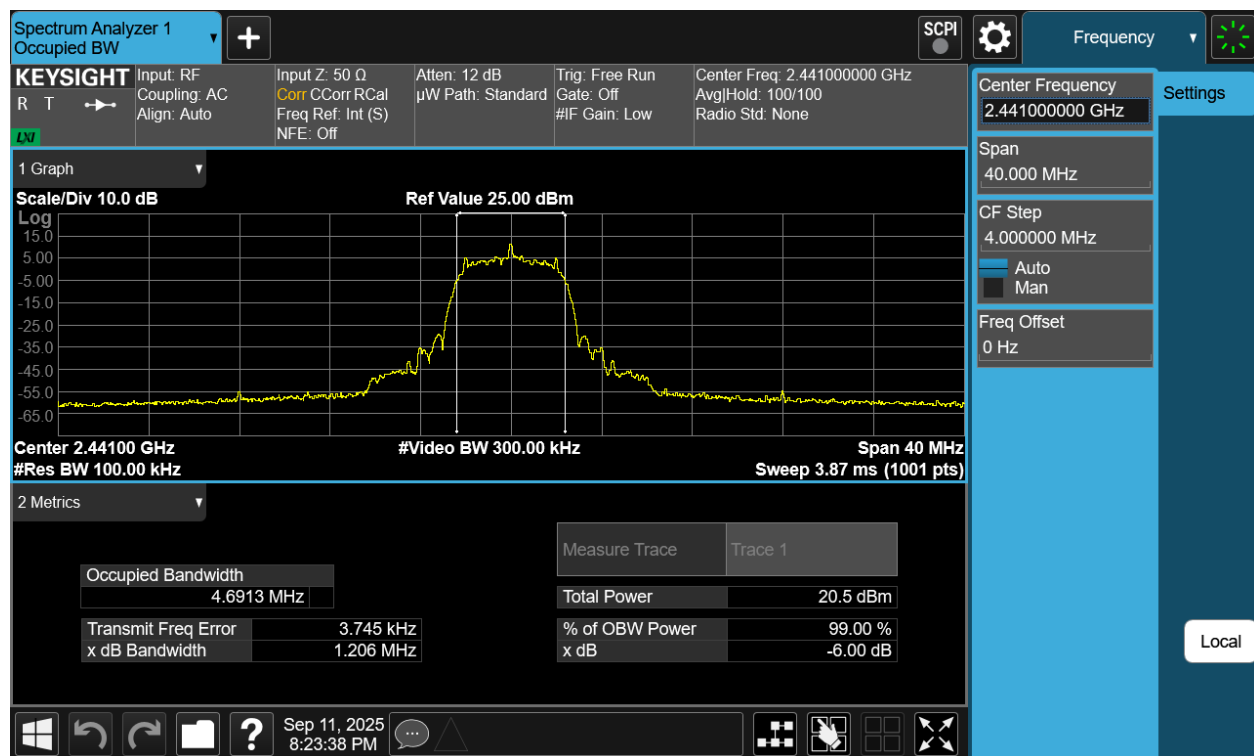
FCC ID: BCGA3460 IC: 579C-A3460		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-67. 6dB BW Plot Antenna 1a (Bluetooth (HDRPM16), 16Mbps, ePA – Ch. 1)

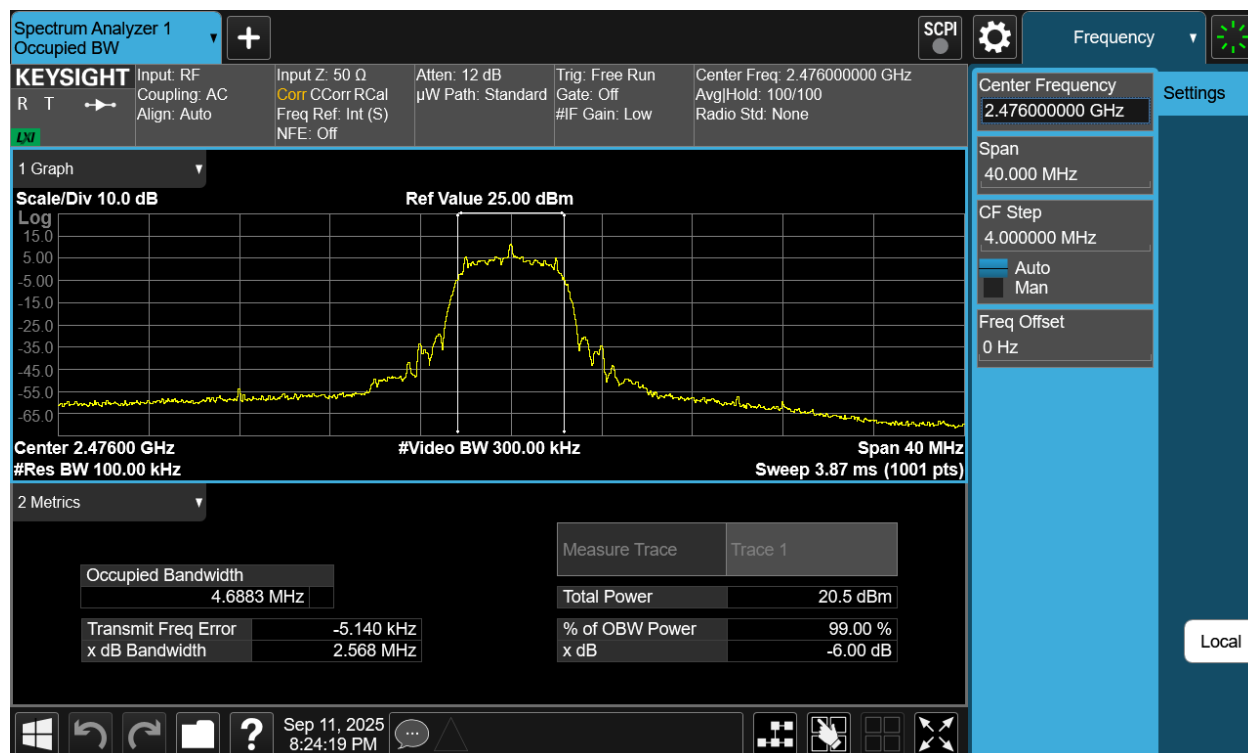


Plot 7-68. 6dB BW Plot Antenna 1a (Bluetooth (HDRPM16), 16Mbps, ePA – Ch. 38)

FCC ID: BCGA3460 IC: 579C-A3460		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-69. 6dB BW Plot Antenna 1a (Bluetooth (HDRPM16), 16Mbps, ePA – Ch. 73)



Plot 7-70. 6dB BW Plot Antenna 1a (Bluetooth (HDT2), 2Mbps, ePA – Ch. 1)

FCC ID: BCGA3460 IC: 579C-A3460		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-71. 6dB BW Plot Antenna 1a (Bluetooth (HDT2), 2Mbps, ePA – Ch. 37)



Plot 7-72. 6dB BW Plot Antenna 1a (Bluetooth (HDT2), 2Mbps, ePA – Ch. 73)

FCC ID: BCGA3460 IC: 579C-A3460		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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7.4 Output Power Measurement

§15.247(b)(3); RSS-247 [6.3.2]

Test Overview and Limits

The transmitter antenna terminal of the EUT is connected to the input of a spectrum analyzer. Measurements are made while the EUT is operating at maximum power and at the appropriate frequencies.

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

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

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

Test Procedure Used

ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024 – Subclause 11.9.1.2 PKPM1 Peak Power Method

KDB 558074 D01 v05r02 – Section 8.3.1.3 PKPM1 Peak-reading Power Meter Method

ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024 – Subclause 11.9.2.3.2 Method AVGPM-G

KDB 558074 D01 v05r02 – Section 8.3.2.3 Measurement using a Power Meter (PM)

ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024 – Subclause 14.4 Measure-and-Sum Technique

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

Test Settings

Method PKPM1 (Peak Power Measurement)

The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall utilize a fast-responding diode detector.

Method AVGPM-G (Average Power Measurement)

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

Test Setup

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



Figure 7-3. Test Instrument & Measurement Setup for Peak and Average Power Measurement

Test Notes

None

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7.4.1 Peak Output Power Measurement – Bluetooth (HDR)

Frequency [MHz]	Mode	Power Scheme	Channel No.	Peak Conducted Power		Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	EIRP [dBm]	EIRP Limit [dBm]	EIRP Margin [dB]
				[dBm]	[mW]						
2404	HDR4	ePA	1	15.47	35.237	30.00	-14.53	2.60	18.07	36.02	-17.95
2441	HDR4	ePA	38	15.46	35.156	30.00	-14.54	2.60	18.06	36.02	-17.96
2476	HDR4	ePA	73	15.33	34.119	30.00	-14.67	2.60	17.93	36.02	-18.09
2404	HDR4	iPA	1	7.59	5.741	30.00	-22.41	2.60	10.19	36.02	-25.83
2441	HDR4	iPA	38	7.85	6.095	30.00	-22.15	2.60	10.45	36.02	-25.57
2476	HDR4	iPA	73	7.73	5.929	30.00	-22.27	2.60	10.33	36.02	-25.69
2404	HDR8	ePA	1	16.46	44.259	30.00	-13.54	2.60	19.06	36.02	-16.96
2441	HDR8	ePA	38	16.42	43.853	30.00	-13.58	2.60	19.02	36.02	-17.00
2476	HDR8	ePA	73	16.29	42.560	30.00	-13.71	2.60	18.89	36.02	-17.13
2404	HDR8	iPA	1	8.61	7.261	30.00	-21.39	2.60	11.21	36.02	-24.81
2441	HDR8	iPA	38	8.61	7.261	30.00	-21.39	2.60	11.21	36.02	-24.81
2476	HDR8	iPA	73	8.64	7.311	30.00	-21.36	2.60	11.24	36.02	-24.78
2404	HDRPS2	ePA	1	15.70	37.154	30.00	-14.30	2.60	18.30	36.02	-17.72
2441	HDRPS2	ePA	38	15.71	37.239	30.00	-14.29	2.60	18.31	36.02	-17.71
2476	HDRPS2	ePA	73	15.59	36.224	30.00	-14.41	2.60	18.19	36.02	-17.83
2404	HDRPS2	iPA	1	7.97	6.266	30.00	-22.03	2.60	10.57	36.02	-25.45
2441	HDRPS2	iPA	38	8.19	6.592	30.00	-21.81	2.60	10.79	36.02	-25.23
2476	HDRPS2	iPA	73	8.12	6.486	30.00	-21.88	2.60	10.72	36.02	-25.30
2404	XHDRPM6	ePA	1	15.99	39.719	30.00	-14.01	2.60	18.59	36.02	-17.43
2441	XHDRPM6	ePA	38	15.97	39.537	30.00	-14.03	2.60	18.57	36.02	-17.45
2476	XHDRPM6	ePA	73	15.89	38.815	30.00	-14.11	2.60	18.49	36.02	-17.53
2404	XHDRPM6	iPA	1	7.93	6.209	30.00	-22.07	2.60	10.53	36.02	-25.49
2441	XHDRPM6	iPA	38	8.11	6.471	30.00	-21.89	2.60	10.71	36.02	-25.31
2476	XHDRPM6	iPA	73	8.14	6.516	30.00	-21.86	2.60	10.74	36.02	-25.28
2404	HDRPM16	ePA	1	15.94	39.264	30.00	-14.06	2.60	18.54	36.02	-17.48
2441	HDRPM16	ePA	38	15.91	38.994	30.00	-14.09	2.60	18.51	36.02	-17.51
2476	HDRPM16	ePA	73	15.82	38.194	30.00	-14.18	2.60	18.42	36.02	-17.60
2404	HDRPM16	iPA	1	6.68	4.656	30.00	-23.32	2.60	9.28	36.02	-26.74
2441	HDRPM16	iPA	38	6.72	4.699	30.00	-23.28	2.60	9.32	36.02	-26.70
2476	HDRPM16	iPA	73	6.89	4.887	30.00	-23.11	2.60	9.49	36.02	-26.53
2404	HDT2	ePA	1	15.81	38.098	30.00	-14.19	2.60	18.41	36.02	-17.61
2440	HDT2	ePA	37	15.82	38.168	30.00	-14.18	2.60	18.42	36.02	-17.60
2476	HDT2	ePA	73	15.59	36.241	30.00	-14.41	2.60	18.19	36.02	-17.83
2404	HDT2	iPA	1	7.85	6.095	30.00	-22.15	2.60	10.45	36.02	-25.57
2440	HDT2	iPA	37	8.11	6.471	30.00	-21.89	2.60	10.71	36.02	-25.31
2476	HDT2	iPA	73	7.93	6.209	30.00	-22.07	2.60	10.53	36.02	-25.49

Table 7-6. Peak Conducted Output Power Measurements Antenna 3a (Bluetooth HDR)

Frequency [MHz]	Mode	Power Scheme	Channel No.	Peak Conducted Power		Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	EIRP [dBm]	EIRP Limit [dBm]	EIRP Margin [dB]
				[dBm]	[mW]						
2404	HDR4	ePA	1	15.60	36.308	30.00	-14.40	1.30	16.90	36.02	-19.12
2441	HDR4	ePA	38	15.54	35.810	30.00	-14.46	1.30	16.84	36.02	-19.18
2476	HDR4	ePA	73	15.45	35.075	30.00	-14.55	1.30	16.75	36.02	-19.27
2404	HDR4	iPA	1	7.87	6.122	30.00	-22.13	1.30	9.17	36.02	-26.85
2441	HDR4	iPA	38	7.72	5.910	30.00	-22.28	1.30	9.02	36.02	-27.00
2476	HDR4	iPA	73	7.95	6.236	30.00	-22.05	1.30	9.25	36.02	-26.77
2404	HDR8	ePA	1	16.59	45.604	30.00	-13.41	1.30	17.89	36.02	-18.13
2441	HDR8	ePA	38	16.53	44.978	30.00	-13.47	1.30	17.83	36.02	-18.19
2476	HDR8	ePA	73	16.46	44.259	30.00	-13.54	1.30	17.76	36.02	-18.26
2404	HDR8	iPA	1	8.38	6.885	30.00	-21.62	1.30	9.68	36.02	-26.34
2441	HDR8	iPA	38	8.58	7.211	30.00	-21.42	1.30	9.88	36.02	-26.14
2476	HDR8	iPA	73	8.63	7.296	30.00	-21.37	1.30	9.93	36.02	-26.09
2404	HDRPS2	ePA	1	15.90	38.905	30.00	-14.10	1.30	17.20	36.02	-18.82
2441	HDRPS2	ePA	38	15.84	38.371	30.00	-14.16	1.30	17.14	36.02	-18.88
2476	HDRPS2	ePA	73	15.78	37.844	30.00	-14.22	1.30	17.08	36.02	-18.94
2404	HDRPS2	iPA	1	8.41	6.931	30.00	-21.59	1.30	9.71	36.02	-26.31
2441	HDRPS2	iPA	38	8.55	7.160	30.00	-21.45	1.30	9.85	36.02	-26.17
2476	HDRPS2	iPA	73	8.59	7.221	30.00	-21.41	1.30	9.89	36.02	-26.13
2404	XHDRPM6	ePA	1	15.67	36.898	30.00	-14.33	1.30	16.97	36.02	-19.05
2441	XHDRPM6	ePA	38	15.57	36.058	30.00	-14.43	1.30	16.87	36.02	-19.15
2476	XHDRPM6	ePA	73	15.57	36.058	30.00	-14.43	1.30	16.87	36.02	-19.15
2404	XHDRPM6	iPA	1	8.36	6.856	30.00	-21.64	1.30	9.66	36.02	-26.36
2441	XHDRPM6	iPA	38	8.49	7.065	30.00	-21.51	1.30	9.79	36.02	-26.23
2476	XHDRPM6	iPA	73	8.11	6.468	30.00	-21.89	1.30	9.41	36.02	-26.61
2404	HDRPM16	ePA	1	15.58	36.141	30.00	-14.42	1.30	16.88	36.02	-19.14
2441	HDRPM16	ePA	38	15.52	35.645	30.00	-14.48	1.30	16.82	36.02	-19.20
2476	HDRPM16	ePA	73	15.51	35.563	30.00	-14.49	1.30	16.81	36.02	-19.21
2404	HDRPM16	iPA	1	7.33	5.413	30.00	-22.67	1.30	8.63	36.02	-27.39
2441	HDRPM16	iPA	38	7.16	5.198	30.00	-22.84	1.30	8.46	36.02	-27.56
2476	HDRPM16	iPA	73	6.95	4.952	30.00	-23.05	1.30	8.25	36.02	-27.77
2404	HDT2	ePA	1	15.90	38.896	30.00	-14.10	1.30	17.20	36.02	-18.82
2440	HDT2	ePA	37	15.85	38.450	30.00	-14.15	1.30	17.15	36.02	-18.87
2476	HDT2	ePA	73	15.71	37.248	30.00	-14.29	1.30	17.01	36.02	-19.01
2404	HDT2	iPA	1	7.94	6.227	30.00	-22.06	1.30	9.24	36.02	-26.78
2440	HDT2	iPA	37	7.84	6.084	30.00	-22.16	1.30	9.14	36.02	-26.88
2476	HDT2	iPA	73	7.89	6.152	30.00	-22.11	1.30	9.19	36.02	-26.83

Table 7-7. Peak Conducted Output Power Measurements Antenna 1a (Bluetooth HDR)

FCC ID: BCGA3460 IC: 579C-A3460		 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Frequency [MHz]	Mode	Power Scheme	Channel No.	Peak Conducted Power						Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	EIRP [dBm]	EIRP Limit [dBm]	EIRP Margin [dB]
				Antenna 3a		Antenna 1a		Summed							
				[dBm]	[mW]	[dBm]	[mW]	[dBm]	[mW]						
2404	HDR4	ePA	1	14.99	31.550	15.12	32.509	18.07	64.121	30.00	-11.93	4.98	23.05	36.02	-12.97
2441	HDR4	ePA	38	14.98	31.477	15.03	31.842	18.02	63.387	30.00	-11.98	4.98	23.00	36.02	-13.02
2476	HDR4	ePA	73	14.80	30.200	14.95	31.261	17.89	61.518	30.00	-12.11	4.98	22.87	36.02	-13.15
2404	HDR4	iPA	1	7.61	5.768	7.83	6.069	10.73	11.830	30.00	-19.27	4.98	15.71	36.02	-20.31
2441	HDR4	iPA	38	7.87	6.124	7.67	5.852	10.78	11.967	30.00	-19.22	4.98	15.76	36.02	-20.26
2476	HDR4	iPA	73	7.74	5.943	7.93	6.206	10.85	12.162	30.00	-19.15	4.98	15.83	36.02	-20.19
2404	HDR8	ePA	1	15.00	31.623	15.10	32.359	18.06	63.973	30.00	-11.94	4.98	23.04	36.02	-12.98
2441	HDR8	ePA	38	14.93	31.117	15.01	31.696	17.98	62.806	30.00	-12.02	4.98	22.96	36.02	-13.06
2476	HDR8	ePA	73	14.78	30.061	14.93	31.117	17.87	61.235	30.00	-12.13	4.98	22.85	36.02	-13.17
2404	HDR8	iPA	1	7.49	5.610	7.76	5.969	10.64	11.588	30.00	-19.36	4.98	15.62	36.02	-20.40
2441	HDR8	iPA	38	7.71	5.902	7.57	5.712	10.65	11.614	30.00	-19.35	4.98	15.63	36.02	-20.39
2476	HDR8	iPA	73	7.61	5.768	7.82	6.052	10.73	11.830	30.00	-19.27	4.98	15.71	36.02	-20.31
2404	HDRPS2	ePA	1	15.18	32.961	15.40	34.674	18.30	67.608	30.00	-11.70	4.98	23.28	36.02	-12.74
2441	HDRPS2	ePA	38	15.15	32.734	15.33	34.119	18.25	66.834	30.00	-11.75	4.98	23.23	36.02	-12.79
2476	HDRPS2	ePA	73	15.06	32.063	15.26	33.574	18.17	65.615	30.00	-11.83	4.98	23.15	36.02	-12.87
2404	HDRPS2	iPA	1	8.05	6.383	8.54	7.137	11.31	13.521	30.00	-18.69	4.98	16.29	36.02	-19.73
2441	HDRPS2	iPA	38	8.25	6.683	8.03	6.358	11.15	13.032	30.00	-18.85	4.98	16.13	36.02	-19.89
2476	HDRPS2	iPA	73	8.19	6.592	8.19	6.598	11.20	13.183	30.00	-18.80	4.98	16.18	36.02	-19.84
2404	XHDRPM6	ePA	1	15.48	35.318	15.17	32.885	18.34	68.234	30.00	-11.66	4.98	23.32	36.02	-12.70
2441	XHDRPM6	ePA	38	15.43	34.914	15.07	32.137	18.26	66.988	30.00	-11.74	4.98	23.24	36.02	-12.78
2476	XHDRPM6	ePA	73	15.38	34.514	15.54	35.810	18.47	70.307	30.00	-11.53	4.98	23.45	36.02	-12.57
2404	XHDRPM6	iPA	1	7.99	6.295	8.09	6.443	11.05	12.735	30.00	-18.95	4.98	16.03	36.02	-19.99
2441	XHDRPM6	iPA	38	8.16	6.546	7.97	6.259	11.07	12.794	30.00	-18.93	4.98	16.05	36.02	-19.97
2476	XHDRPM6	iPA	73	8.24	6.668	8.21	6.621	11.23	13.274	30.00	-18.77	4.98	16.21	36.02	-19.81
2404	HDRPM16	ePA	1	15.46	35.156	15.56	35.975	18.52	71.121	30.00	-11.48	4.98	23.50	36.02	-12.52
2441	HDRPM16	ePA	38	15.41	34.754	15.47	35.237	18.45	69.984	30.00	-11.55	4.98	23.43	36.02	-12.59
2476	HDRPM16	ePA	73	15.75	37.584	15.47	35.237	18.62	72.778	30.00	-11.38	4.98	23.60	36.02	-12.42
2404	HDRPM16	iPA	1	6.78	4.764	7.00	5.015	9.90	9.772	30.00	-20.10	4.98	14.88	36.02	-21.14
2441	HDRPM16	iPA	38	6.69	4.667	7.16	5.196	9.94	9.863	30.00	-20.06	4.98	14.92	36.02	-21.10
2476	HDRPM16	iPA	73	6.97	4.977	6.96	4.970	9.98	9.954	30.00	-20.02	4.98	14.96	36.02	-21.06
2404	HDT2	ePA	1	15.80	38.054	15.90	38.878	18.86	76.913	30.00	-11.14	4.98	23.84	36.02	-12.18
2440	HDT2	ePA	37	15.82	38.150	15.84	38.353	18.84	76.560	30.00	-11.16	4.98	23.82	36.02	-12.20
2476	HDT2	ePA	73	15.59	36.199	15.70	37.171	18.66	73.451	30.00	-11.34	4.98	23.64	36.02	-12.38
2404	HDT2	iPA	1	7.92	6.194	7.89	6.145	10.91	12.331	30.00	-19.09	4.98	15.89	36.02	-20.13
2440	HDT2	iPA	37	8.13	6.501	8.33	6.814	11.24	13.305	30.00	-18.76	4.98	16.22	36.02	-19.80
2476	HDT2	iPA	73	8.00	6.310	7.86	6.102	10.94	12.417	30.00	-19.06	4.98	15.92	36.02	-20.10

Table 7-8. Peak Conducted Output Power Measurements TxBF (Bluetooth HDR)

FCC ID: BCGA3460 IC: 579C-A3460		 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2509100080-16-R4.BCG	Test Dates: 09/11/2025 - 12/10/2025	EUT Type: Tablet Device		Page 63 of 221

7.4.2 Average Output Power Measurement – Bluetooth (HDR)

Frequency [MHz]	Data Rate [Mbps]	Power Scheme	Channel No.	Average Conducted Power		Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	EIRP [dBm]	EIRP Limit [dBm]	EIRP Margin [dB]
				[dBm]	[mW]						
2404	HDR4	ePA	1	12.87	19.342	30.00	-17.14	2.60	15.47	36.02	-20.56
2441	HDR4	ePA	38	12.84	19.218	30.00	-17.16	2.60	15.44	36.02	-20.58
2476	HDR4	ePA	73	12.70	18.612	30.00	-17.30	2.60	15.30	36.02	-20.72
2404	HDR4	iPA	1	5.10	3.235	30.00	-24.90	2.60	7.70	36.02	-28.32
2441	HDR4	iPA	38	5.35	3.426	30.00	-24.65	2.60	7.95	36.02	-28.07
2476	HDR4	iPA	73	5.23	3.332	30.00	-24.77	2.60	7.83	36.02	-28.19
2404	HDR8	ePA	1	12.85	19.275	30.00	-17.15	2.60	15.45	36.02	-20.57
2441	HDR8	ePA	38	12.77	18.910	30.00	-17.23	2.60	15.37	36.02	-20.65
2476	HDR8	ePA	73	12.68	18.531	30.00	-17.32	2.60	15.28	36.02	-20.74
2404	HDR8	iPA	1	5.13	3.258	30.00	-24.87	2.60	7.73	36.02	-28.29
2441	HDR8	iPA	38	5.11	3.242	30.00	-24.89	2.60	7.71	36.02	-28.31
2476	HDR8	iPA	73	5.02	3.179	30.00	-24.98	2.60	7.62	36.02	-28.40
2404	HDRPS2	ePA	1	12.66	18.446	30.00	-17.34	2.60	15.26	36.02	-20.76
2441	HDRPS2	ePA	38	12.66	18.459	30.00	-17.34	2.60	15.26	36.02	-20.76
2476	HDRPS2	ePA	73	12.61	18.218	30.00	-17.40	2.60	15.21	36.02	-20.82
2404	HDRPS2	iPA	1	5.17	3.287	30.00	-24.83	2.60	7.77	36.02	-28.25
2441	HDRPS2	iPA	38	5.23	3.334	30.00	-24.77	2.60	7.83	36.02	-28.19
2476	HDRPS2	iPA	73	5.03	3.185	30.00	-24.97	2.60	7.63	36.02	-28.39
2404	XHDRPM6	ePA	1	12.86	19.329	30.00	-17.14	2.60	15.46	36.02	-20.56
2441	XHDRPM6	ePA	38	12.85	19.280	30.00	-17.15	2.60	15.45	36.02	-20.57
2476	XHDRPM6	ePA	73	12.77	18.910	30.00	-17.23	2.60	15.37	36.02	-20.65
2404	XHDRPM6	iPA	1	5.00	3.165	30.00	-25.00	2.60	7.60	36.02	-28.42
2441	XHDRPM6	iPA	38	5.10	3.234	30.00	-24.90	2.60	7.70	36.02	-28.32
2476	XHDRPM6	iPA	73	5.05	3.198	30.00	-24.95	2.60	7.65	36.02	-28.37
2404	HDRPM16	ePA	1	10.97	12.511	30.00	-19.03	2.60	13.57	36.02	-22.45
2441	HDRPM16	ePA	38	10.97	12.505	30.00	-19.03	2.60	13.57	36.02	-22.45
2476	HDRPM16	ePA	73	10.84	12.139	30.00	-19.16	2.60	13.44	36.02	-22.58
2404	HDRPM16	iPA	1	1.85	1.532	30.00	-28.15	2.60	4.45	36.02	-31.57
2441	HDRPM16	iPA	38	1.82	1.520	30.00	-28.18	2.60	4.42	36.02	-31.60
2476	HDRPM16	iPA	73	1.98	1.576	30.00	-28.02	2.60	4.58	36.02	-31.44
2404	HDT2	ePA	1	12.84	19.222	30.00	-17.16	2.60	15.44	36.02	-20.58
2440	HDT2	ePA	37	12.87	19.382	30.00	-17.13	2.60	15.47	36.02	-20.55
2476	HDT2	ePA	73	12.64	18.378	30.00	-17.36	2.60	15.24	36.02	-20.78
2404	HDT2	iPA	1	5.06	3.205	30.00	-24.94	2.60	7.66	36.02	-28.36
2440	HDT2	iPA	37	5.29	3.384	30.00	-24.71	2.60	7.89	36.02	-28.13
2476	HDT2	iPA	73	5.11	3.243	30.00	-24.89	2.60	7.71	36.02	-28.31

Table 7-9. Average Conducted Output Power Measurements Antenna 3a (Bluetooth HDR)

Frequency [MHz]	Data Rate [Mbps]	Power Scheme	Channel No.	Average Conducted Power		Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	EIRP [dBm]	EIRP Limit [dBm]	EIRP Margin [dB]
				[dBm]	[mW]						
2404	HDR4	ePA	1	12.96	19.779	30.00	-17.04	1.30	14.26	36.02	-21.76
2441	HDR4	ePA	38	12.87	19.364	30.00	-17.13	1.30	14.17	36.02	-21.85
2476	HDR4	ePA	73	12.85	19.280	30.00	-17.15	1.30	14.15	36.02	-21.87
2404	HDR4	iPA	1	5.21	3.317	30.00	-24.79	1.30	6.51	36.02	-29.51
2441	HDR4	iPA	38	5.06	3.204	30.00	-24.94	1.30	6.36	36.02	-29.66
2476	HDR4	iPA	73	5.20	3.311	30.00	-24.80	1.30	6.50	36.02	-29.52
2404	HDR8	ePA	1	12.91	19.530	30.00	-17.09	1.30	14.21	36.02	-21.81
2441	HDR8	ePA	38	12.86	19.329	30.00	-17.14	1.30	14.16	36.02	-21.86
2476	HDR8	ePA	73	12.83	19.169	30.00	-17.17	1.30	14.13	36.02	-21.89
2404	HDR8	iPA	1	5.10	3.236	30.00	-24.90	1.30	6.40	36.02	-29.62
2441	HDR8	iPA	38	5.08	3.221	30.00	-24.92	1.30	6.38	36.02	-29.64
2476	HDR8	iPA	73	5.12	3.250	30.00	-24.88	1.30	6.42	36.02	-29.60
2404	HDRPS2	ePA	1	12.65	18.403	30.00	-17.35	1.30	13.95	36.02	-22.07
2441	HDRPS2	ePA	38	12.60	18.214	30.00	-17.40	1.30	13.90	36.02	-22.12
2476	HDRPS2	ePA	73	12.75	18.850	30.00	-17.25	1.30	14.05	36.02	-21.97
2404	HDRPS2	iPA	1	5.35	3.427	30.00	-24.65	1.30	6.65	36.02	-29.37
2441	HDRPS2	iPA	38	5.44	3.499	30.00	-24.56	1.30	6.74	36.02	-29.28
2476	HDRPS2	iPA	73	5.48	3.533	30.00	-24.52	1.30	6.78	36.02	-29.24
2404	XHDRPM6	ePA	1	12.47	17.664	30.00	-17.53	1.30	13.77	36.02	-22.25
2441	XHDRPM6	ePA	38	12.42	17.446	30.00	-17.58	1.30	13.72	36.02	-22.30
2476	XHDRPM6	ePA	73	12.43	17.507	30.00	-17.57	1.30	13.73	36.02	-22.29
2404	XHDRPM6	iPA	1	5.40	3.471	30.00	-24.60	1.30	6.70	36.02	-29.32
2441	XHDRPM6	iPA	38	5.48	3.530	30.00	-24.52	1.30	6.78	36.02	-29.24
2476	XHDRPM6	iPA	73	5.09	3.228	30.00	-24.91	1.30	6.39	36.02	-29.63
2404	HDRPM16	ePA	1	10.57	11.408	30.00	-19.43	1.30	11.87	36.02	-24.15
2441	HDRPM16	ePA	38	10.50	11.220	30.00	-19.50	1.30	11.80	36.02	-24.22
2476	HDRPM16	ePA	73	10.49	11.202	30.00	-19.51	1.30	11.79	36.02	-24.23
2404	HDRPM16	iPA	1	2.42	1.747	30.00	-27.58	1.30	3.72	36.02	-32.30
2441	HDRPM16	iPA	38	2.31	1.704	30.00	-27.69	1.30	3.61	36.02	-32.41
2476	HDRPM16	iPA	73	2.14	1.636	30.00	-27.86	1.30	3.44	36.02	-32.58
2404	HDT2	ePA	1	12.94	19.697	30.00	-17.06	1.30	14.24	36.02	-21.78
2440	HDT2	ePA	37	12.90	19.516	30.00	-17.10	1.30	14.20	36.02	-21.82
2476	HDT2	ePA	73	12.80	19.046	30.00	-17.20	1.30	14.10	36.02	-21.92
2404	HDT2	iPA	1	5.13	3.255	30.00	-24.87	1.30	6.43	36.02	-29.59
2440	HDT2	iPA	37	5.01	3.169	30.00	-24.99	1.30	6.31	36.02	-29.71
2476	HDT2	iPA	73	5.09	3.231	30.00	-24.91	1.30	6.39	36.02	-29.63

Table 7-10. Average Conducted Output Power Measurements Antenna 1a (Bluetooth HDR)

FCC ID: BCGA3460 IC: 579C-A3460		 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2509100080-16-R4.BCG		Test Dates: 09/11/2025 - 12/10/2025	EUT Type: Tablet Device	Page 64 of 221

V 11.0 05/2025

Frequency [MHz]	Mode	Power Scheme	Channel No.	Average Conducted Power						Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	EIRP [dBm]	EIRP Limit [dBm]	EIRP Margin [dB]
				Antenna 3a		Antenna 1a		Summed							
				[dBm]	[mW]	[dBm]	[mW]	[dBm]	[mW]						
2404	HDR4	ePA	1	12.35	17.187	12.47	17.652	15.42	34.834	30.00	-14.58	4.98	20.40	36.02	-15.62
2441	HDR4	ePA	38	12.41	17.410	12.34	17.120	15.38	34.514	30.00	-14.62	4.98	20.36	36.02	-15.66
2476	HDR4	ePA	73	12.20	16.611	12.33	17.096	15.28	33.729	30.00	-14.72	4.98	20.26	36.02	-15.76
2404	HDR4	iPA	1	5.20	3.314	4.96	3.133	8.09	6.442	30.00	-21.91	4.98	13.07	36.02	-22.95
2441	HDR4	iPA	38	5.38	3.451	5.05	3.199	8.23	6.653	30.00	-21.77	4.98	13.21	36.02	-22.81
2476	HDR4	iPA	73	5.25	3.351	5.34	3.418	8.31	6.776	30.00	-21.69	4.98	13.29	36.02	-22.73
2404	HDR8	ePA	1	12.27	16.877	12.41	17.410	15.35	34.277	30.00	-14.65	4.98	20.33	36.02	-15.69
2441	HDR8	ePA	38	12.35	17.167	12.41	17.426	15.39	34.594	30.00	-14.61	4.98	20.37	36.02	-15.65
2476	HDR8	ePA	73	12.15	16.421	12.29	16.959	15.23	33.343	30.00	-14.77	4.98	20.21	36.02	-15.81
2404	HDR8	iPA	1	4.92	3.107	5.25	3.347	8.10	6.457	30.00	-21.90	4.98	13.08	36.02	-22.94
2441	HDR8	iPA	38	5.29	3.380	5.07	3.213	8.19	6.592	30.00	-21.81	4.98	13.17	36.02	-22.85
2476	HDR8	iPA	73	5.24	3.338	5.26	3.359	8.26	6.699	30.00	-21.74	4.98	13.24	36.02	-22.78
2404	HDRPS2	ePA	1	12.15	16.421	12.30	16.986	15.24	33.420	30.00	-14.76	4.98	20.22	36.02	-15.80
2441	HDRPS2	ePA	38	12.08	16.147	12.28	16.897	15.19	33.037	30.00	-14.81	4.98	20.17	36.02	-15.85
2476	HDRPS2	ePA	73	12.05	16.025	12.26	16.811	15.16	32.810	30.00	-14.84	4.98	20.14	36.02	-15.88
2404	HDRPS2	iPA	1	5.04	3.192	5.49	3.542	8.28	6.730	30.00	-21.72	4.98	13.26	36.02	-22.76
2441	HDRPS2	iPA	38	5.40	3.466	4.97	3.142	8.20	6.607	30.00	-21.80	4.98	13.18	36.02	-22.84
2476	HDRPS2	iPA	73	5.14	3.268	5.25	3.347	8.21	6.622	30.00	-21.79	4.98	13.19	36.02	-22.83
2404	XHDRPM6	ePA	1	12.43	17.498	12.10	16.218	15.28	33.729	30.00	-14.72	4.98	20.26	36.02	-15.76
2441	XHDRPM6	ePA	38	12.44	17.523	12.03	15.951	15.25	33.497	30.00	-14.75	4.98	20.23	36.02	-15.79
2476	XHDRPM6	ePA	73	12.31	17.026	12.40	17.390	15.37	34.435	30.00	-14.63	4.98	20.35	36.02	-15.67
2404	XHDRPM6	iPA	1	5.17	3.289	5.09	3.226	8.14	6.516	30.00	-21.86	4.98	13.12	36.02	-22.90
2441	XHDRPM6	iPA	38	5.20	3.314	4.89	3.086	8.06	6.397	30.00	-21.94	4.98	13.04	36.02	-22.98
2476	XHDRPM6	iPA	73	5.13	3.261	5.10	3.237	8.13	6.501	30.00	-21.87	4.98	13.11	36.02	-22.91
2404	HDRPM16	ePA	1	10.47	11.153	10.58	11.431	13.54	22.594	30.00	-16.46	4.98	18.52	36.02	-17.50
2441	HDRPM16	ePA	38	10.47	11.138	10.51	11.249	13.50	22.387	30.00	-16.50	4.98	18.48	36.02	-17.54
2476	HDRPM16	ePA	73	10.53	12.098	10.51	11.249	13.68	23.335	30.00	-16.32	4.98	18.66	36.02	-17.36
2404	HDRPM16	iPA	1	2.03	1.596	2.08	1.613	5.06	3.206	30.00	-24.94	4.98	10.04	36.02	-25.98
2441	HDRPM16	iPA	38	1.97	1.574	2.32	1.707	5.16	3.281	30.00	-24.84	4.98	10.14	36.02	-25.88
2476	HDRPM16	iPA	73	2.13	1.631	2.18	1.652	5.16	3.281	30.00	-24.84	4.98	10.14	36.02	-25.88
2404	HDT2	ePA	1	12.84	19.226	12.94	19.679	15.90	38.905	30.00	-14.10	4.98	20.88	36.02	-15.14
2440	HDT2	ePA	37	12.96	19.315	12.89	19.449	15.88	38.726	30.00	-14.12	4.98	20.86	36.02	-15.16
2476	HDT2	ePA	73	12.62	18.294	12.80	19.046	15.72	37.325	30.00	-14.28	4.98	20.70	36.02	-15.32
2404	HDT2	iPA	1	5.15	3.276	5.05	3.199	8.11	6.471	30.00	-21.89	4.98	13.09	36.02	-22.93
2440	HDT2	iPA	37	5.36	3.436	5.48	3.532	8.43	6.966	30.00	-21.57	4.98	13.41	36.02	-22.61
2476	HDT2	iPA	73	5.21	3.316	5.06	3.205	8.14	6.516	30.00	-21.86	4.98	13.12	36.02	-22.90

Table 7-11. Average Conducted Output Power Measurements TxBF (Bluetooth HDR)

FCC ID: BCGA3460 IC: 579C-A3460		 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2509100080-16-R4.BCG		Test Dates: 09/11/2025 - 12/10/2025	EUT Type: Tablet Device	Page 65 of 221

Note:

Per ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024 and KDB 662911 D01 v02r01 Section E)1), the conducted powers at Antenna 3a and Antenna 1a were first measured separately during TxBF transmission as shown in the section above. The measured values were then summed in linear power units then converted back to dBm.

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

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

Sample TxBF Calculation:

At 2404MHz the average conducted output power was measured to be 12.35 dBm for Antenna 3a and 12.47 dBm for Antenna 1a.

$$\text{Antenna 3a} + \text{Antenna 1a} = \text{TxBF}$$

$$(12.35 \text{ dBm} + 12.47 \text{ dBm}) = (17.179 \text{ mW} + 19.660 \text{ mW}) = 34.834 \text{ mW} = 15.42 \text{ dBm}$$

Sample e.i.r.p. Calculation:

At 2404MHz, the average conducted output power was calculated to be 15.42 dBm with antenna gain of 4.98 dBi.

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

$$15.42 \text{ dBm} + 4.98 \text{ dBi} = 20.40 \text{ dBm}$$

FCC ID: BCGA3460 IC: 579C-A3460	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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7.5 Power Spectral Density

§15.247(e); RSS-247 [6.3.1(b)]

Test Overview and Limit

The peak power density is measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at maximum power and at the appropriate frequencies.

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

Test Procedure Used

ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024 – Subclause 11.10.2 Method PKPSD
KDB 558074 D01 v05r02 – Section 8.4 DTS Maximum Power Spectral Density level in the fundamental emission
ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024 – Subclause 14.5.2.2 Measure-and-Sum Technique
KDB 662911 D01 v02r01 – Section E)2) Measure-and-Sum Technique

Test Settings

1. Analyzer was set to the center frequency of the DTS channel under investigation
2. Span = 1.5 times the DTS channel bandwidth
3. RBW = 3kHz
4. VBW $\geq 3 \times$ RBW
5. Detector = peak
6. Sweep time = auto couple
7. Trace mode = max hold
8. Trace was allowed to stabilize

Test Setup

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

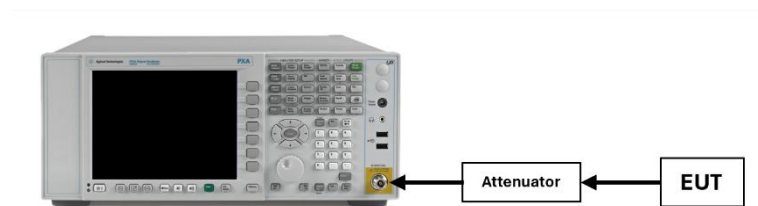


Figure 7-4. Test Instrument & Measurement Setup

Test Notes

None

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7.5.1 Antenna 3a

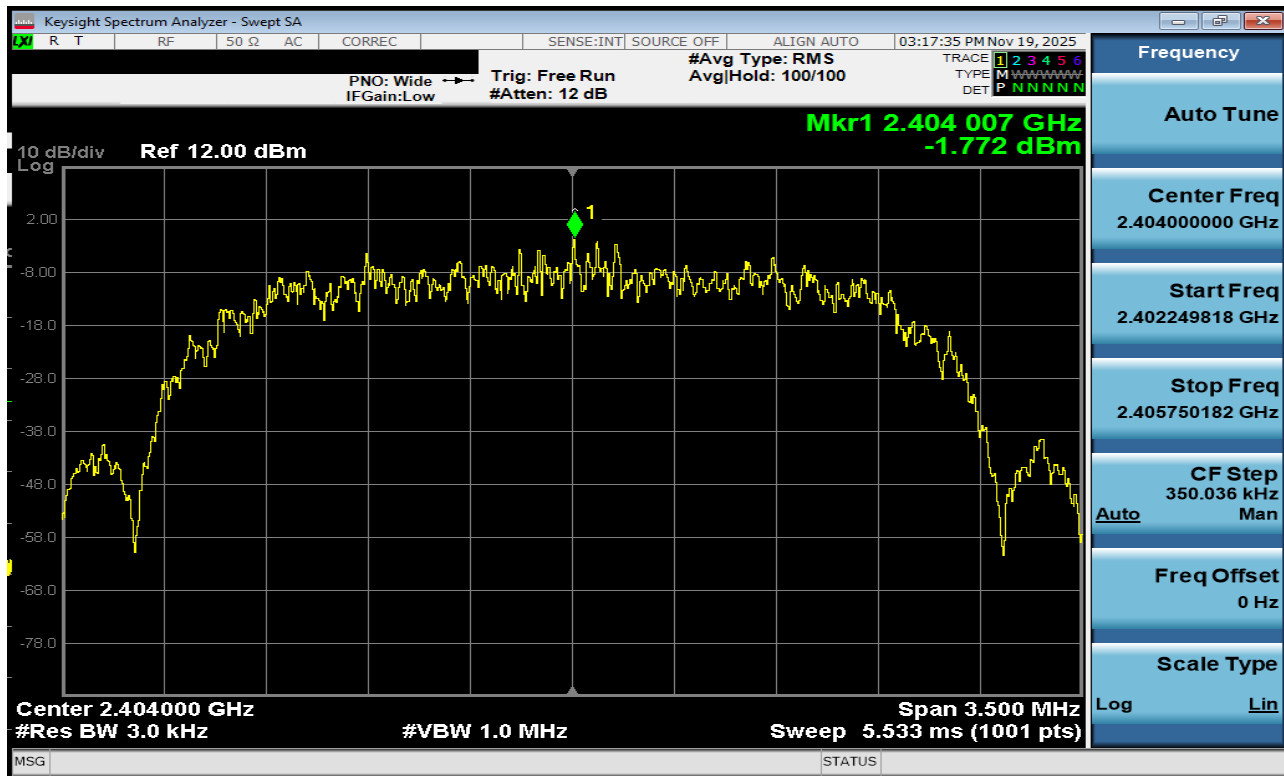
Frequency [MHz]	Mode	Power Scheme	Channel No.	Measured Power Density [dBm/3kHz]	Max Power Density [dBm/3kHz]	Margin [dB]
2404	HDR4	ePA	1	-1.77	8.0	-9.77
2441	HDR4	ePA	38	-1.82	8.0	-9.82
2476	HDR4	ePA	73	-2.04	8.0	-10.04
2404	HDR4	iPA	1	-9.73	8.0	-17.73
2441	HDR4	iPA	38	-9.65	8.0	-17.65
2476	HDR4	iPA	73	-9.60	8.0	-17.60
2404	HDR8	ePA	1	-2.50	8.0	-10.50
2441	HDR8	ePA	38	-2.62	8.0	-10.62
2476	HDR8	ePA	73	-2.83	8.0	-10.83
2404	HDR8	iPA	1	-9.97	8.0	-17.97
2441	HDR8	iPA	38	-10.35	8.0	-18.35
2476	HDR8	iPA	73	-10.11	8.0	-18.11
2404	HDRPS2	ePA	1	-4.13	8.0	-12.13
2441	HDRPS2	ePA	38	-4.23	8.0	-12.23
2476	HDRPS2	ePA	73	-4.25	8.0	-12.25
2404	HDRPS2	iPA	1	-11.87	8.0	-19.87
2441	HDRPS2	iPA	38	-11.61	8.0	-19.61
2476	HDRPS2	iPA	73	-11.79	8.0	-19.79
2404	XHDRPM6	ePA	1	-7.85	8.0	-15.85
2441	XHDRPM6	ePA	38	-7.99	8.0	-15.99
2476	XHDRPM6	ePA	73	-8.03	8.0	-16.03
2404	XHDRPM6	iPA	1	-16.05	8.0	-24.05
2441	XHDRPM6	iPA	38	-15.94	8.0	-23.94
2476	XHDRPM6	iPA	73	-16.04	8.0	-24.04
2404	HDRPM16	ePA	1	-8.13	8.0	-16.13
2441	HDRPM16	ePA	38	-8.23	8.0	-16.23
2476	HDRPM16	ePA	73	-8.30	8.0	-16.30
2404	HDRPM16	iPA	1	-17.16	8.0	-25.16
2441	HDRPM16	iPA	38	-17.16	8.0	-25.16
2476	HDRPM16	iPA	73	-17.20	8.0	-25.20
2404	HDT2	ePA	1	-6.33	8.0	-14.33
2440	HDT2	ePA	37	-6.28	8.0	-14.28
2476	HDT2	ePA	73	-6.36	8.0	-14.36
2404	HDT2	iPA	1	-14.20	8.0	-22.20
2440	HDT2	iPA	37	-14.12	8.0	-22.12
2476	HDT2	iPA	73	-14.14	8.0	-22.14

Table 7-12. Conducted Power Density Measurements Antenna 3a

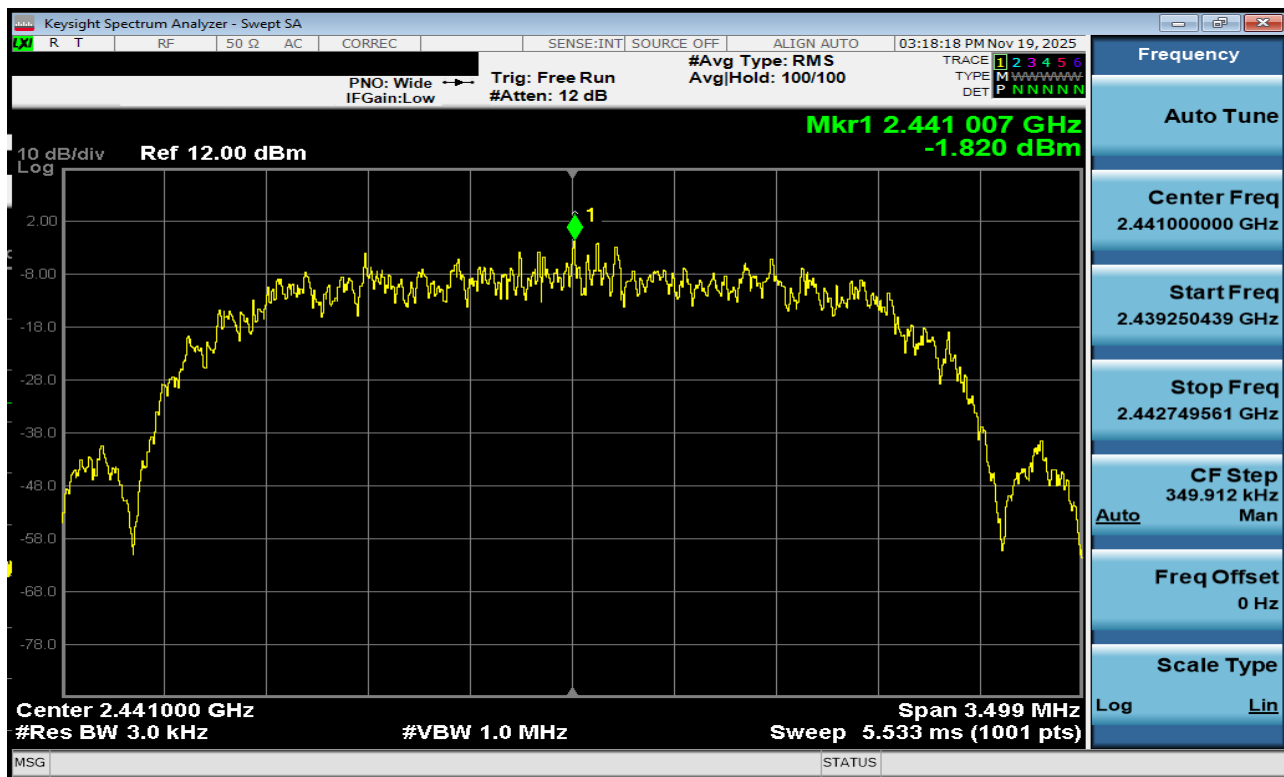
FCC ID: BCGA3460 IC: 579C-A3460	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Plot 7-73. Power Spectral Density Plot Antenna 3a (Bluetooth (HDR4), 4Mbps, ePA – Ch. 1)

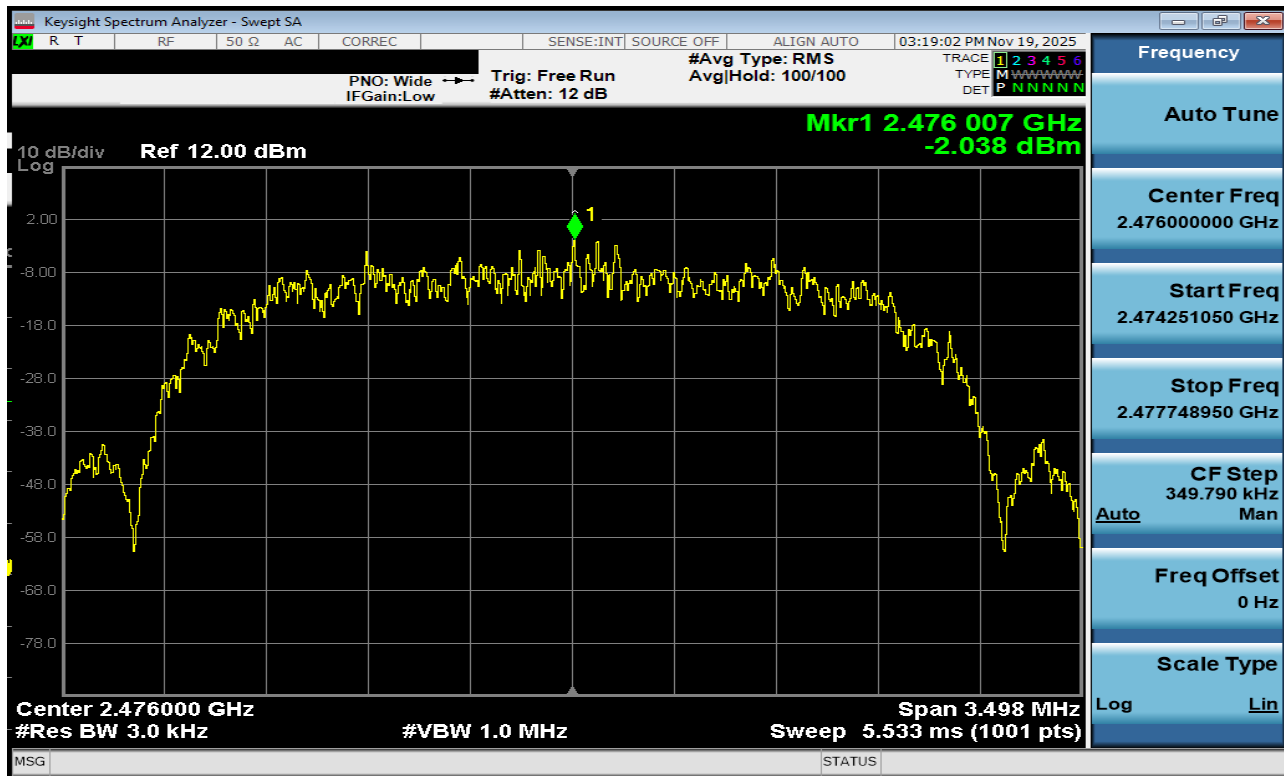


Plot 7-74. Power Spectral Density Plot Antenna 3a (Bluetooth (HDR4), 4Mbps, ePA – Ch. 38)

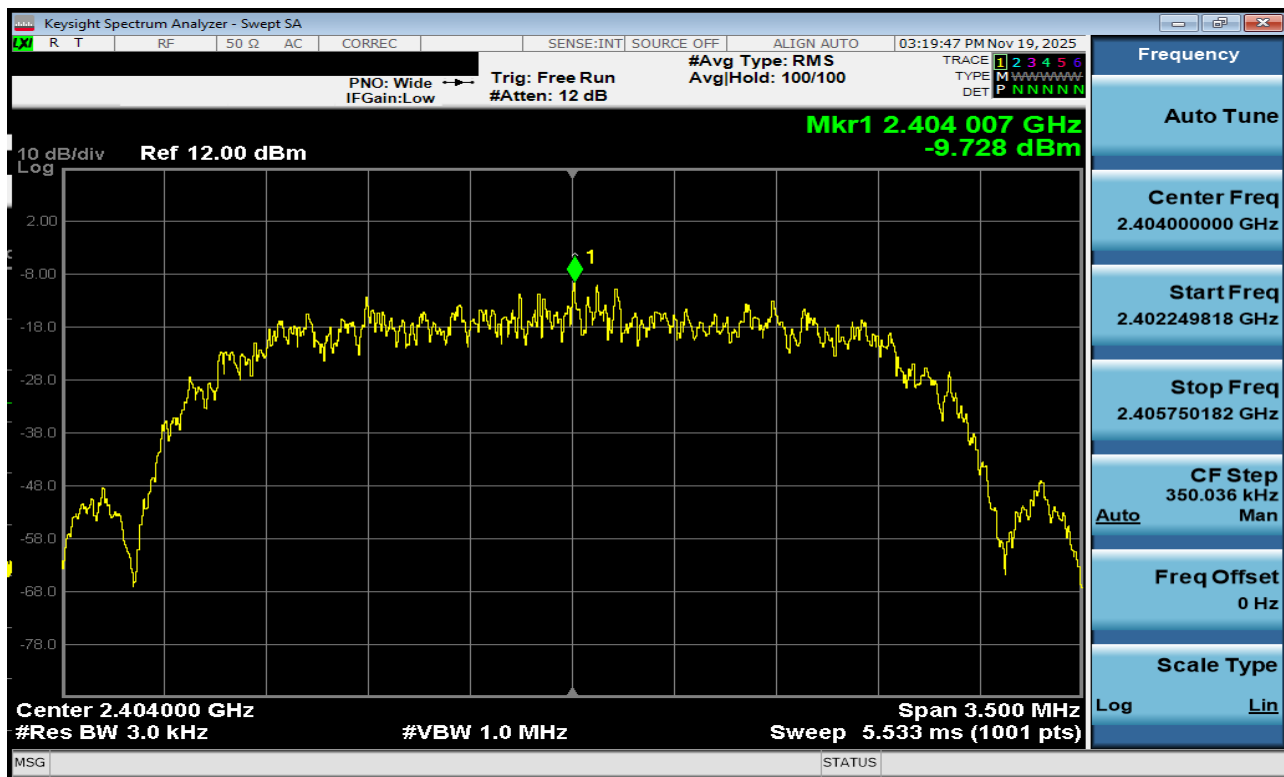
FCC ID: BCGA3460 IC: 579C-A3460		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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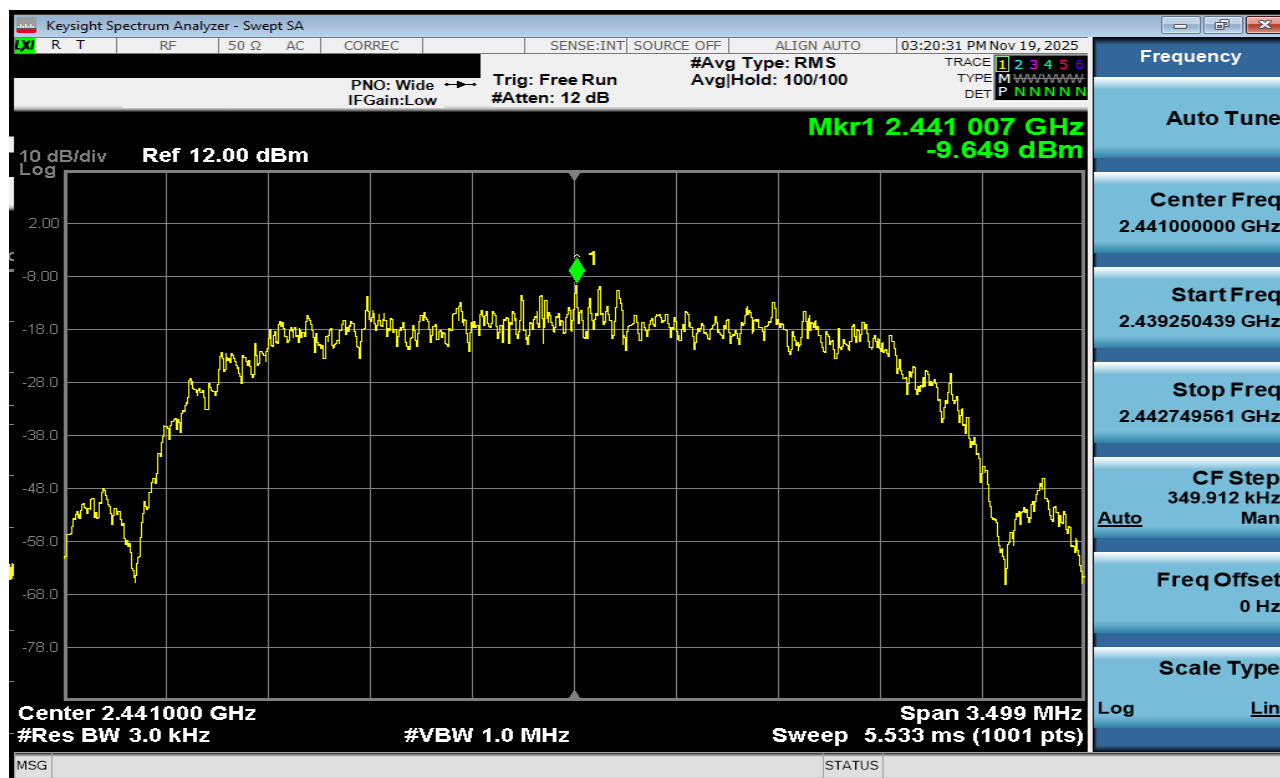


Plot 7-75. Power Spectral Density Plot Antenna 3a (Bluetooth (HDR4), 4Mbps, ePA – Ch. 73)

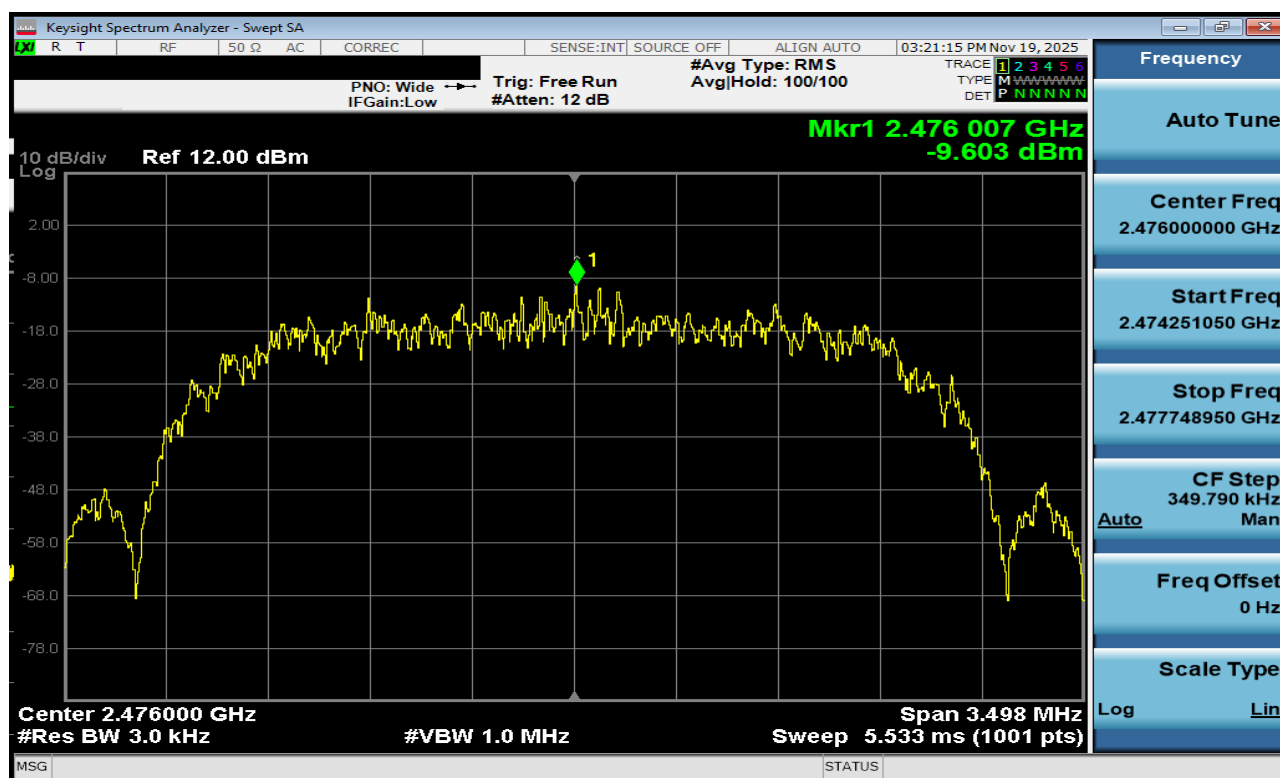


Plot 7-76. Power Spectral Density Plot Antenna 3a (Bluetooth (HDR4), 4Mbps, iPA – Ch. 1)

FCC ID: BCGA3460 IC: 579C-A3460		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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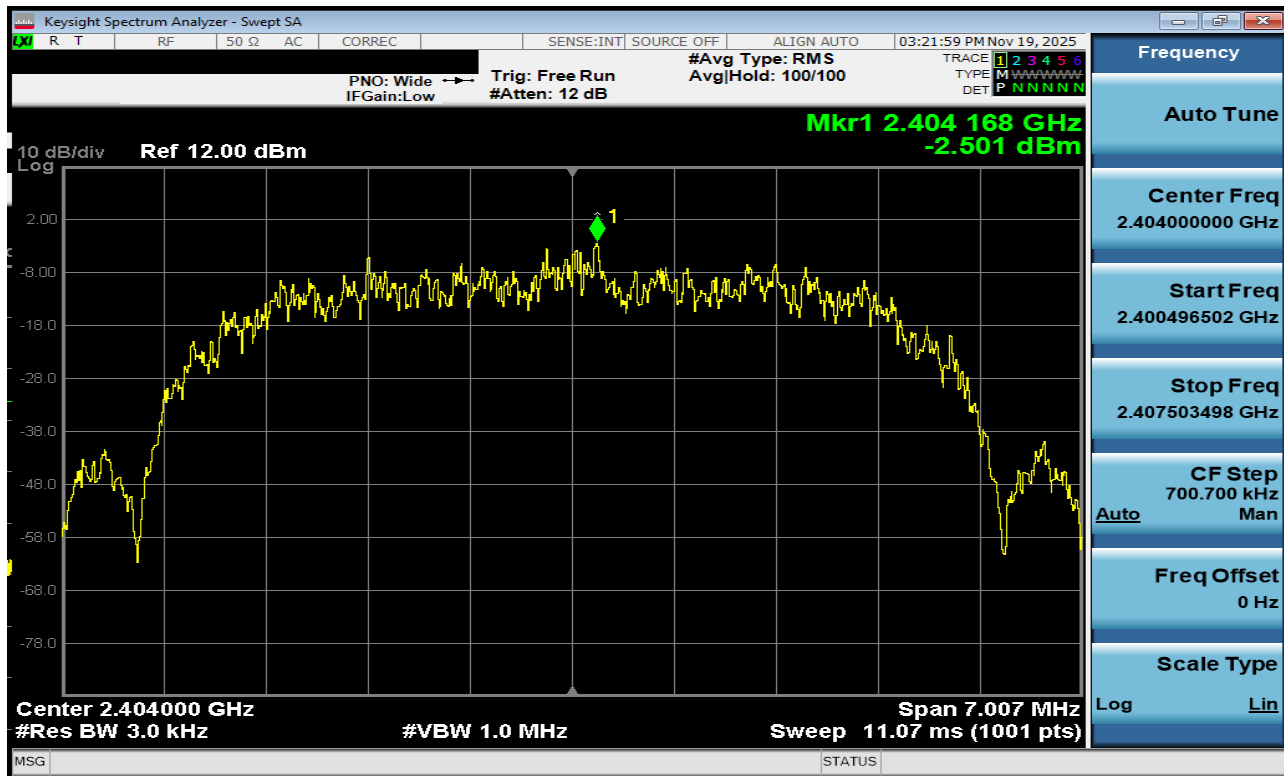


Plot 7-77. Power Spectral Density Plot Antenna 3a (Bluetooth (HDR4), 4Mbps, iPA – Ch. 38)

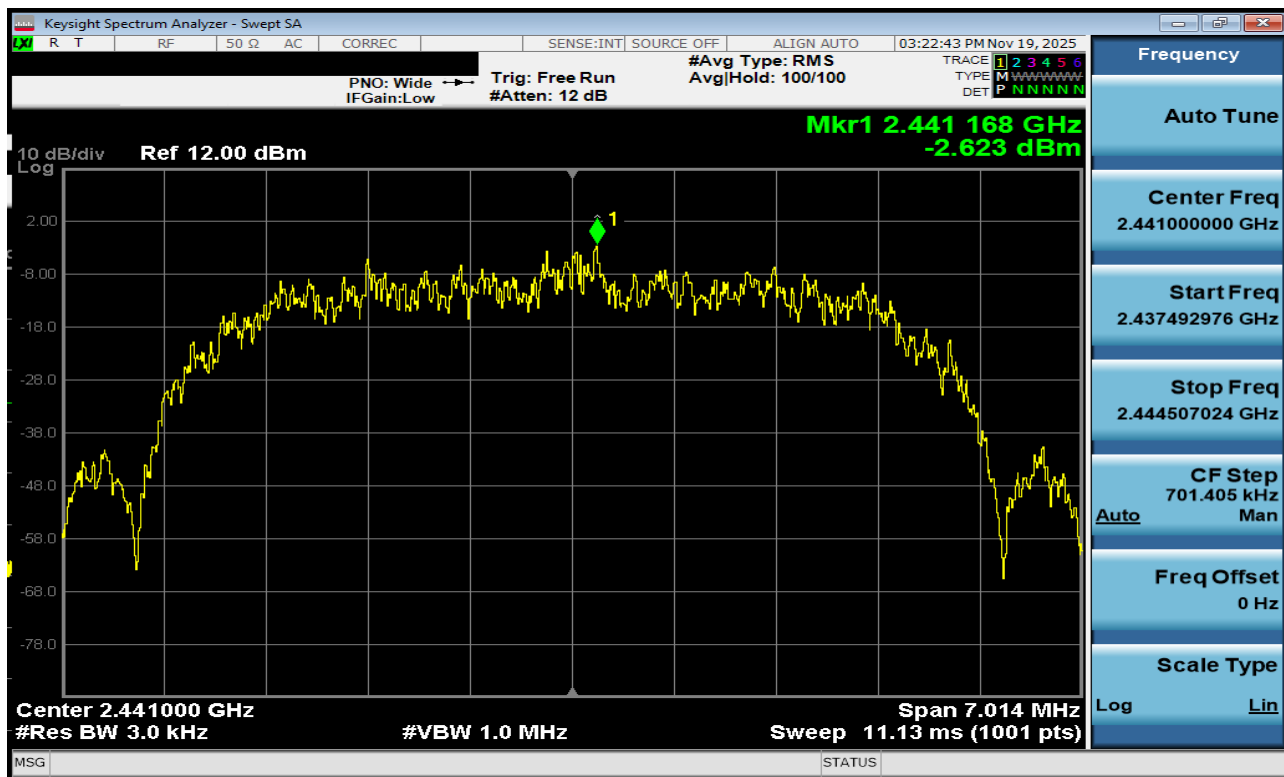


Plot 7-78. Power Spectral Density Plot Antenna 3a (Bluetooth (HDR4), 4Mbps, iPA – Ch. 73)

FCC ID: BCGA3460 IC: 579C-A3460		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-79. Power Spectral Density Plot Antenna 3a (Bluetooth (HDR8), 8Mbps, ePA – Ch. 1)

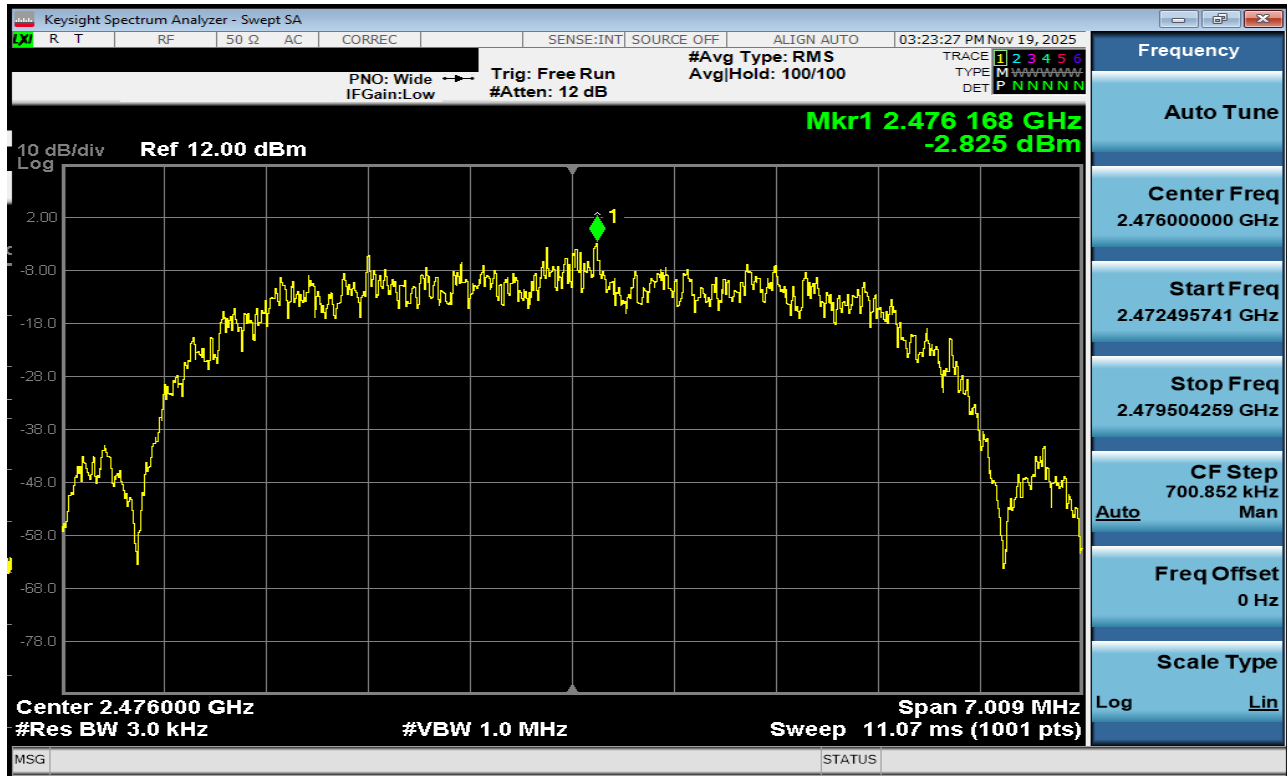


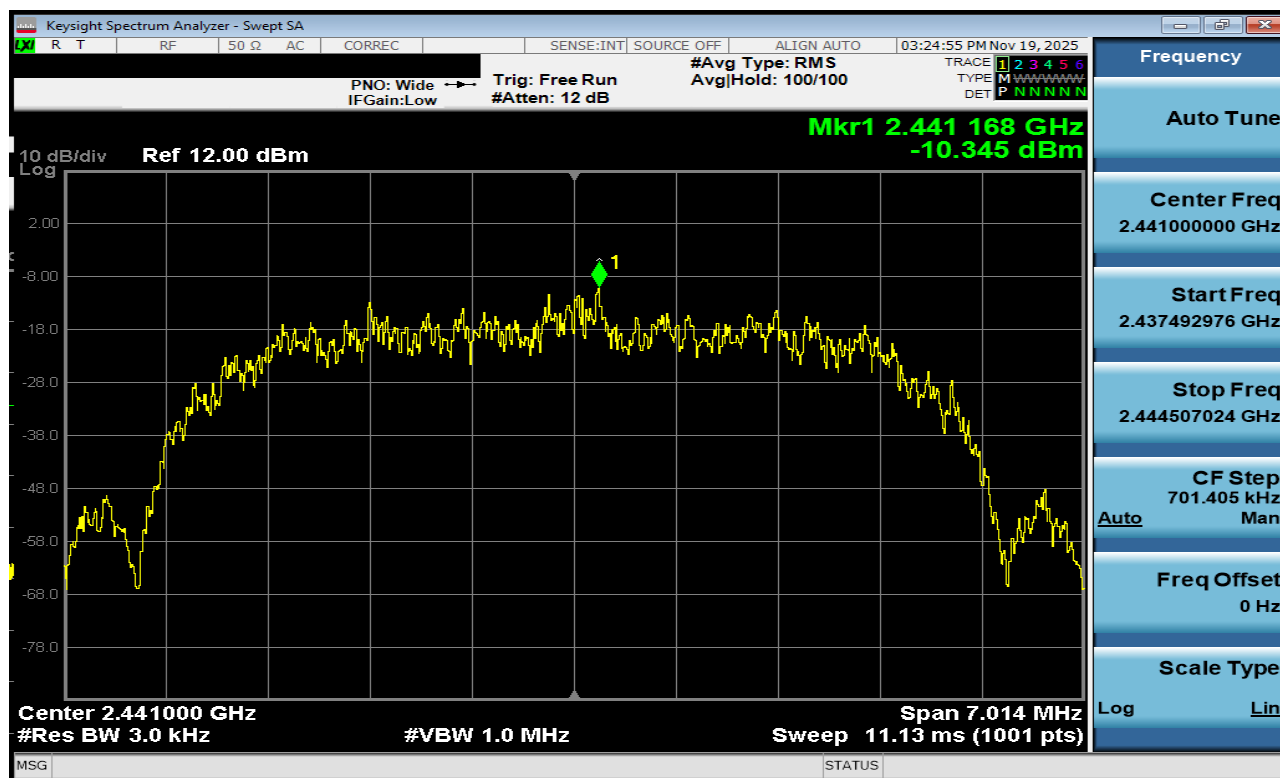
Plot 7-80. Power Spectral Density Plot Antenna 3a (Bluetooth (HDR8), 8Mbps, ePA – Ch. 38)

FCC ID: BCGA3460 IC: 579C-A3460		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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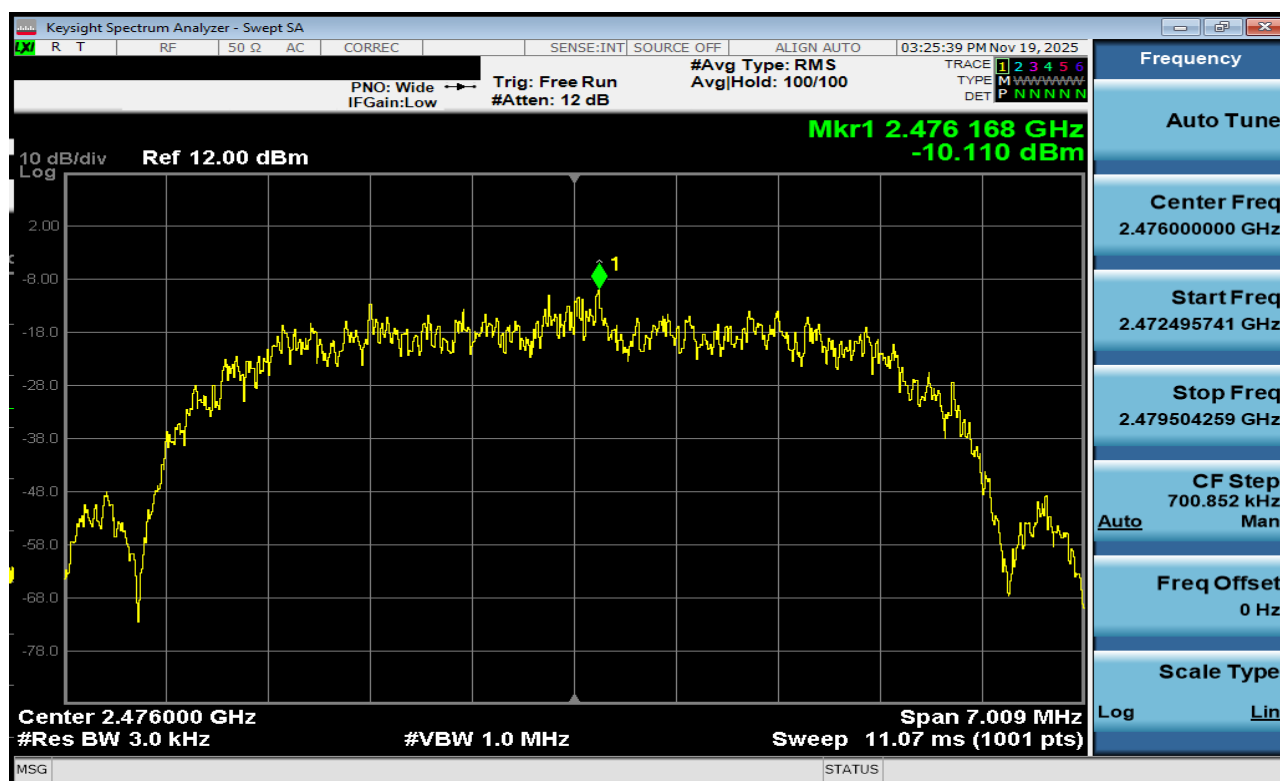
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Plot 7-83. Power Spectral Density Plot Antenna 3a (Bluetooth (HDR8), 8Mbps, iPA – Ch. 38)



Plot 7-84. Power Spectral Density Plot Antenna 3a (Bluetooth (HDR8), 8Mbps, iPA – Ch. 73)

FCC ID: BCGA3460 IC: 579C-A3460		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100080-16-R4.BCG	Test Dates: 09/11/2025 - 12/10/2025	EUT Type: Tablet Device	Page 74 of 221