



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:

05/12/2025 - 09/02/2025

Test Report Issue Date:

9/8/2025

Test Site/Location:

Element Materials Technology, Morgan Hill, CA, USA

Test Report Serial No.:

1C2504170040-07-R1.BCG

FCC ID:

BCGA3360

IC:

579C-A3360

APPLICANT:

Apple Inc.

Application Type:

Certification

Model/HVIN:

A3360

EUT Type:

Tablet Device

Max. RF Output Power:

103.918 mW (20.17 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 3

Test Procedure(s):

ANSI C63.10-2020, 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 and KDB 558074 D01 v05r02. Test results reported herein relate only to the item(s) tested.

This revised Test Report (S/N: 1C2504170040-07-R1.BCG) supersedes and replaces the previously issued test report on the same subject device for the same type of testing as indicated. Please discard or destroy the previously issued test report(s) and dispose accordingly

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



RJ Ortanez
Executive Vice President



FCC ID: BCGA3360 IC: 579C-A3360	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2504170040-07-R1.BCG	Test Dates: 05/12/2025 - 09/02/2025	EUT Type: Tablet Device	Page 1 of 305

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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: BCGA3360, IC: 579C-A3360**. 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.: MP4F34H533, KXNYKTV4H9, FVN74XCR7Q, H9HHG4000D20000SDT, H9HHG4000F20000SDT

2.2 Device Capabilities

This device contains the following capabilities:

802.11b/g/n/ax/be WLAN, 802.11a/n/ac/ax/be UNII (5GHz and 6GHz), 802.15.4, Bluetooth (1x, EDR, LE, HDR, HDT), Narrowband (NB) UNII (5GHz and 6GHz), WPT

This device supports BT Beamforming.

This device supports channel puncturing and channel bandwidth reduction.

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/HDT 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. 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 WF8		Antenna WF7		Antenna WF9		TxBF Primary		TxBF Diversity	
		Duty Cycle [%]	DCCF [dB]	Duty Cycle [%]	DCCF [dB]	Duty Cycle [%]	DCCF [dB]	Duty Cycle [%]	DCCF [dB]	Duty Cycle [%]	DCCF [dB]
HDR4	ePA	77.660	1.098	77.553	1.104	77.393	1.113	77.553	1.104	77.553	1.104
	iPA	77.660	1.098	77.553	1.104	77.393	1.113	77.553	1.104	77.553	1.104
HDR8	ePA	77.804	1.090	77.804	1.090	77.839	1.088	77.750	1.093	77.750	1.093
	iPA	77.804	1.090	77.804	1.090	77.839	1.088	77.750	1.093	77.750	1.093
HDRPS2	ePA	92.130	0.356	92.278	0.349	91.981	0.363	92.130	0.356	92.215	0.352
	iPA	92.130	0.356	92.278	0.349	91.981	0.363	92.130	0.356	92.215	0.352
XHDRPS2	ePA	98.560	0.063	98.084	0.084	98.084	0.084	98.878	0.049	98.560	0.063
	iPA	98.560	0.063	98.084	0.084	98.084	0.084	98.878	0.049	98.560	0.063
XHDRPM6	ePA	86.080	0.651	86.457	0.632	86.080	0.651	86.080	0.651	86.636	0.623
	iPA	86.080	0.651	86.457	0.632	86.080	0.651	86.080	0.651	86.636	0.623
XHDRPM8	ePA	91.854	0.369	92.257	0.350	92.045	0.360	91.685	0.377	92.236	0.351
	iPA	91.854	0.369	92.257	0.350	92.045	0.360	91.685	0.377	92.236	0.351
HDRPM16	ePA	89.598	0.477	89.598	0.477	89.598	0.477	89.187	0.497	89.331	0.490
	iPA	89.598	0.477	89.598	0.477	89.598	0.477	89.187	0.497	89.331	0.490
XHDRPM16	ePA	87.317	0.589	87.700	0.570	87.317	0.589	87.317	0.589	87.317	0.589
	iPA	87.317	0.589	87.700	0.570	87.317	0.589	87.317	0.589	87.317	0.589
HDT2	ePA	96.316	0.163	96.316	0.163	95.940	0.180	96.316	0.163	96.316	0.163
	iPA	96.316	0.163	96.316	0.163	95.940	0.180	96.316	0.163	96.316	0.163
HDT8	ePA	90.594	0.429	90.615	0.428	90.803	0.419	90.240	0.446	90.240	0.446
	iPA	90.594	0.429	90.615	0.428	90.803	0.419	90.240	0.446	90.240	0.446

Table 2-3. Measured Duty Cycles

TxBF Primary = Antenna WF8 + Antenna WF7
TxBF Diversity = Antenna WF8 + Antenna WF9

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

Antenna	Simultaneous Tx Config	Bluetooth 2.4GHz	Thread	WLAN	NB UNII	WIFI 5GHz	WIFI 6GHz
		BDR, EDR, LE HDR, HDT	802.15.4	802.11 b/g/n/ax/be	BDR, EDR, LE HDR, HDT	802.11 a/n/ac/ax/be	802.11 a/ax/be
Ant WF7	Config 1	✓	✗	✗	✗	✓	✗
Ant WF7	Config 2	✓	✗	✗	✗	✗	✓
Ant WF7	Config 3	✗	✓	✗	✗	✓	✗
Ant WF7	Config 4	✗	✓	✗	✗	✗	✓
Ant WF7	Config 5	✗	✗	✓	✓	✗	✗
Ant WF7	Config 6	✗	✗	✓	✗	✓	✗
Ant WF7	Config 7	✗	✗	✓	✗	✗	✓
Ant WF8	Config 8	✓	✗	✗	✗	✓	✗
Ant WF8	Config 9	✓	✗	✗	✗	✗	✓
Ant WF8	Config 10	✗	✓	✗	✗	✓	✗
Ant WF8	Config 11	✗	✓	✗	✗	✗	✓
Ant WF8	Config 12	✗	✗	✓	✓	✗	✗
Ant WF8	Config 13	✗	✗	✓	✗	✓	✗
Ant WF8	Config 14	✗	✗	✓	✗	✗	✓

Table 2-4. Simultaneous Transmission Configurations

✓ = Support; ✗ = Not Support

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 manufacturer were used for testing.

Frequency [GHz]	Antenna Gain (dBi)		
	Antenna WF8	Antenna WF7	Antenna WF9
2.4	2.1	1.9	0.5

Table 2-5. Highest Antenna Gain

2.4 Test Support Equipment

1	Apple MacBook Pro	Model:	A2141	S/N:	C02H604EQ05D
	w/AC/DC Adapter	Model:	A2166	S/N:	C4H042705ZNPM0WA6
2	Apple USB-C Cable	Model:	Spartan	S/N:	GXK1336018XKTR024
3	USB-C Cable	Model:	A2795	S/N:	DWH80115BK826GV19
	w/ AC Adapter	Model:	A2305	S/N:	C4H95160004PF4F4V
4	Apple Pencil	Model:	A2538	S/N:	KJ26TCFXJW
5	DC Power Supply	Model:	KPS3010D	S/N:	N/A

Table 2-6. Test Support Equipment List

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2.5 Test Configuration

The EUT was tested per the guidance of ANSI C63.10-2020 and KDB 558074 D01 v05r02. 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, 7.5, and 7.6 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 was 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 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 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	2.07
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	7/12/2024	Annual	7/12/2025	101363
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: BCGA3360
 IC: 579C-A3360
 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 7.2
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 7.3
15.247(e)	RSS-247 [6.3.1(b)]	Transmitter Power Spectral Density	< 8dBm / 3kHz Band		PASS	Section 7.4
15.247(d)	RSS-247 [6.6]	Band Edge / Out-of-Band Emissions	≥ 20dBc		PASS	Sections 7.5, 7.6
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 7.7, 7.8
15.207	RSS-Gen [8.8]	AC Conducted Emissions 150kHz – 30MHz	< FCC 15.207 limits (RSS-Gen [8.8])	AC LINE CONDUCTED	PASS	Section 7.9

Table 7-1. Summary of Test Results

Notes:

- All modes of operation 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,” 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 Bandwidth Measurement

§2.1049; §15.247(a)(2); RSS-247 [5.2]; RSS-Gen [6.7]

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 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.

The minimum permissible 6dB bandwidth is 500 kHz.

Test Procedure Used

ANSI C63.10-2020 – 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 and 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
8. 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 WF8

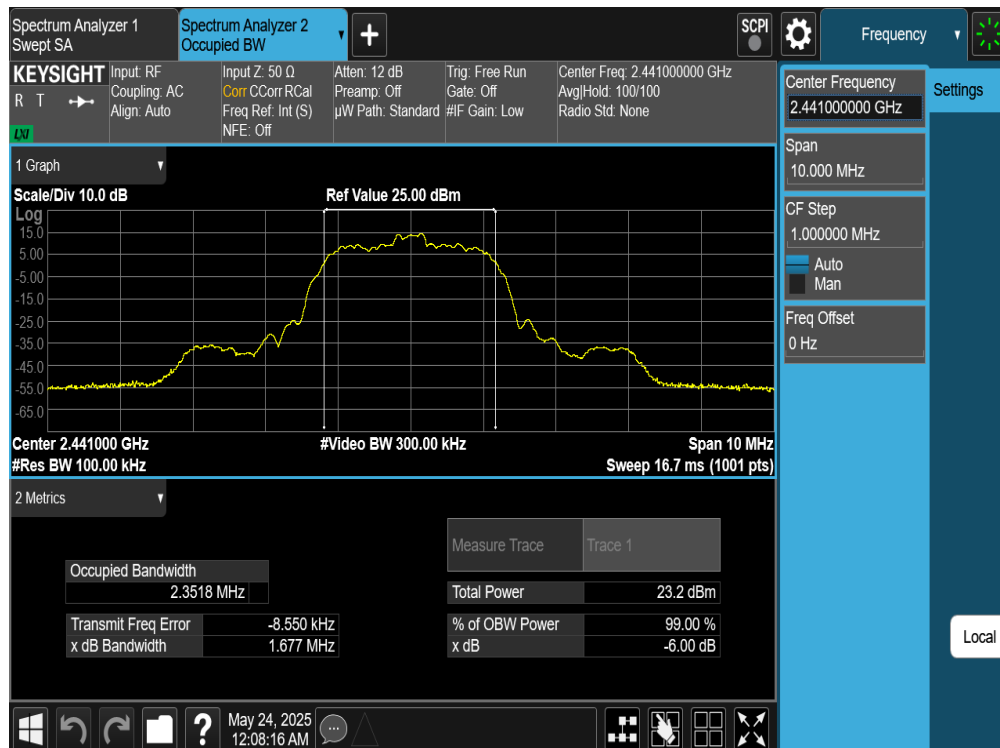
Frequency [MHz]	Mode	Power Scheme	Channel	Measured 99% Occupied Bandwidth [MHz]	Measured 6dB Bandwidth [MHz]	Minimum 6dB Bandwidth [MHz]	Pass/Fail
2404	HDR4	ePA	1	2.353	1.678	0.50	Pass
2441	HDR4	ePA	38	2.352	1.677	0.50	Pass
2476	HDR4	ePA	73	2.355	1.674	0.50	Pass
2404	HDR8	ePA	1	4.648	0.881	0.50	Pass
2441	HDR8	ePA	38	4.642	0.900	0.50	Pass
2476	HDR8	ePA	73	4.647	0.857	0.50	Pass
2404	HDRPS2	ePA	1	2.377	2.086	0.50	Pass
2441	HDRPS2	ePA	38	2.378	2.088	0.50	Pass
2476	HDRPS2	ePA	73	2.379	2.094	0.50	Pass
2404	XHDRPM6	ePA	1	4.711	4.065	0.50	Pass
2441	XHDRPM6	ePA	38	4.716	4.063	0.50	Pass
2476	XHDRPM6	ePA	73	4.724	4.065	0.50	Pass
2404	HDRPM16	ePA	1	4.696	2.563	0.50	Pass
2441	HDRPM16	ePA	38	4.690	2.530	0.50	Pass
2476	HDRPM16	ePA	73	4.702	2.564	0.50	Pass
2404	HDT2	ePA	1	2.392	2.085	0.50	Pass
2440	HDT2	ePA	37	2.395	2.121	0.50	Pass
2476	HDT2	ePA	73	2.391	2.086	0.50	Pass

Table 7-2. 6dB BW & 99% OBW Measurements Antenna WF8

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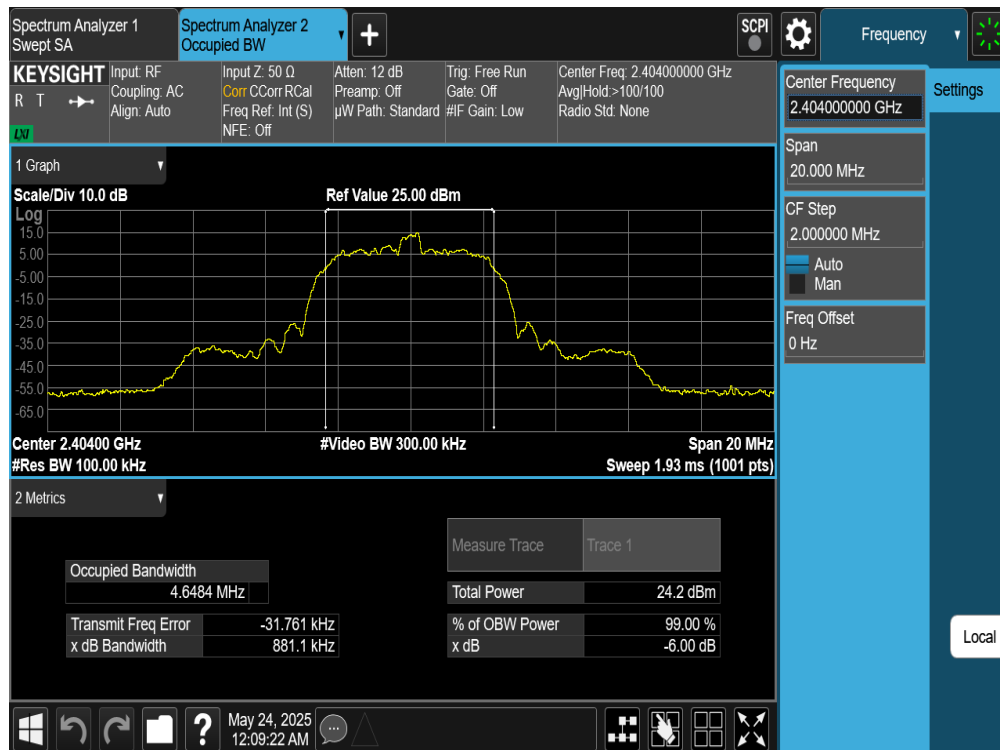
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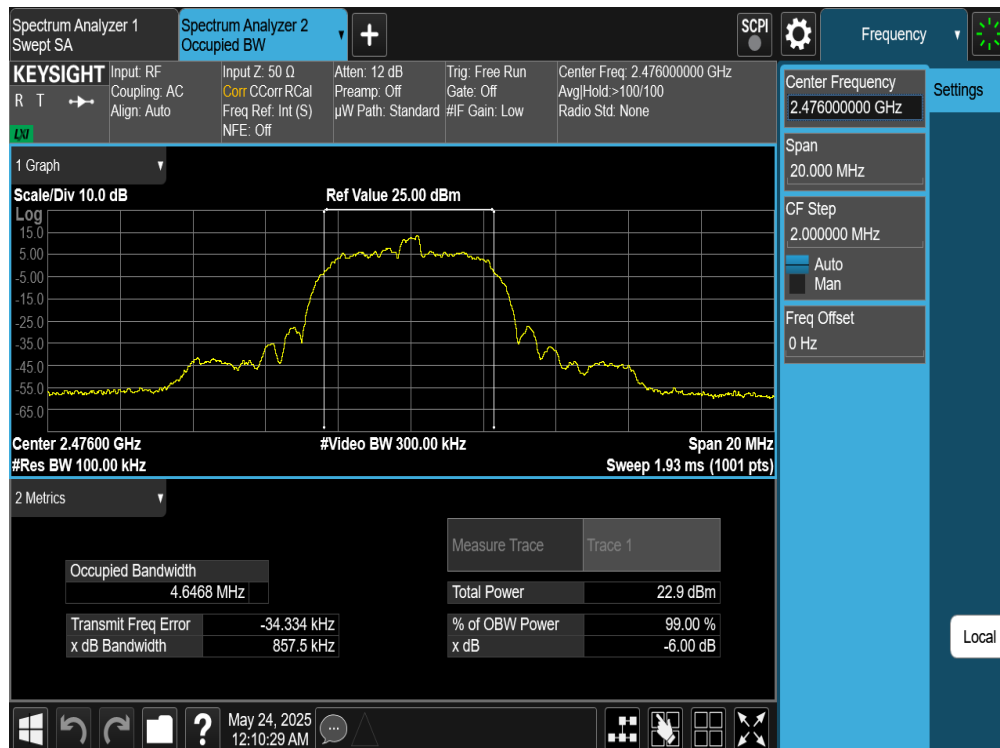
FCC ID: BCGA3360 IC: 579C-A3360		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-5. 6dB BW & 99% OBW Plot Antenna WF8 (Bluetooth (HDR8), 8Mbps, ePA – Ch. 38)

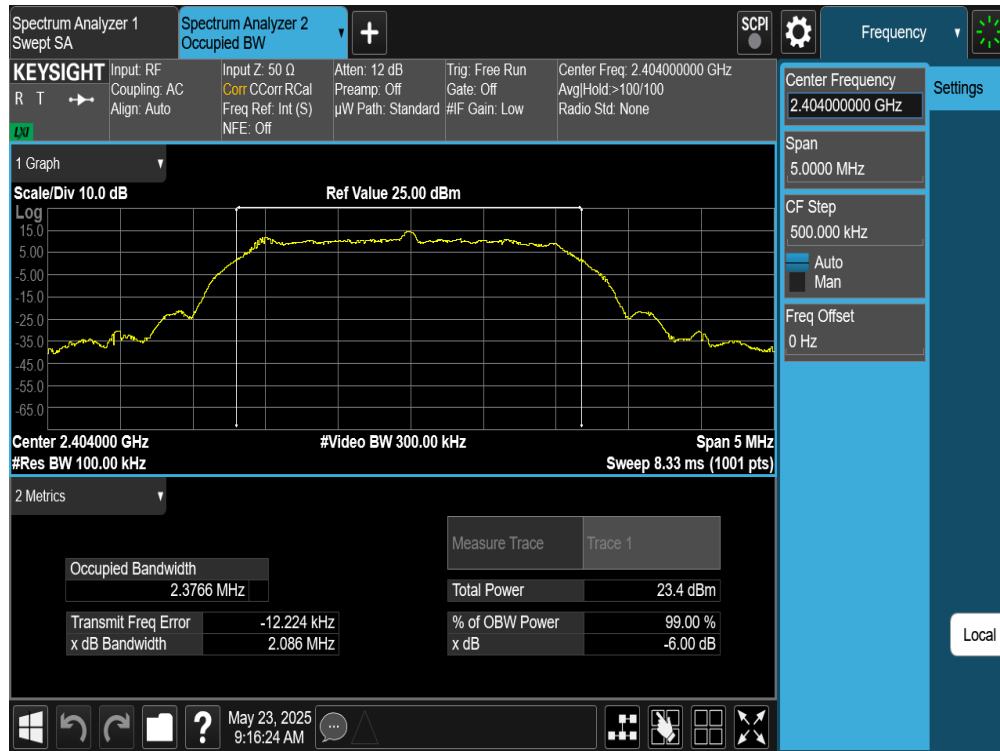


Plot 7-6. 6dB BW & 99% OBW Plot Antenna WF8 (Bluetooth (HDR8), 8Mbps, ePA – Ch. 73)

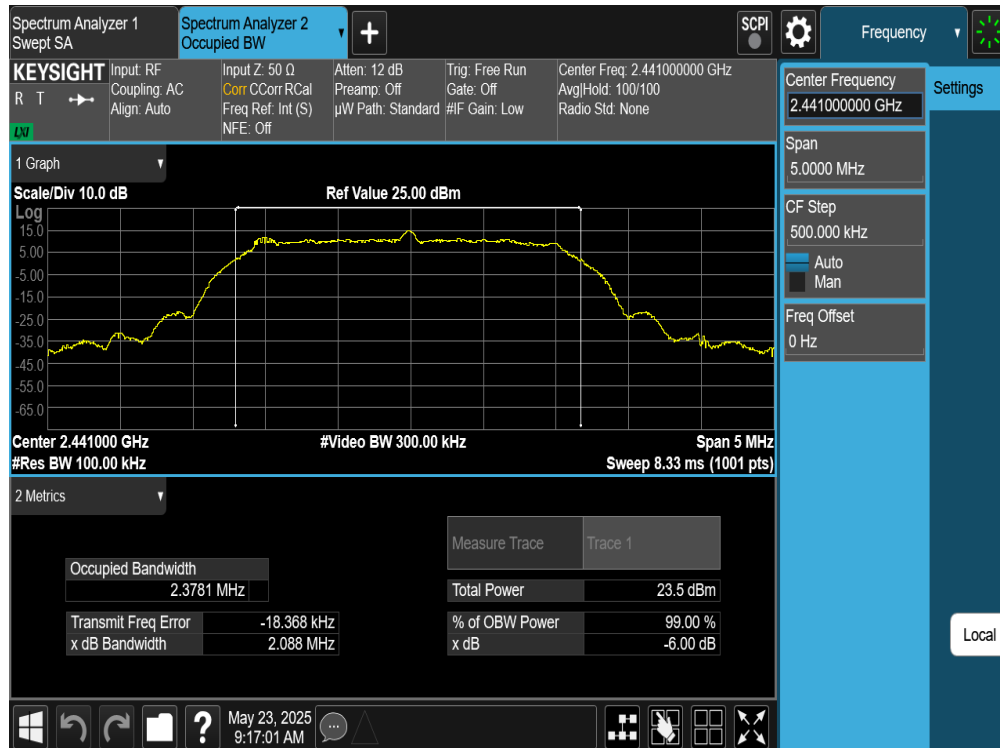
FCC ID: BCGA3360 IC: 579C-A3360		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-7. 6dB BW & 99% OBW Plot Antenna WF8 (Bluetooth (HDRPS2), 2Mbps, ePA – Ch. 1)

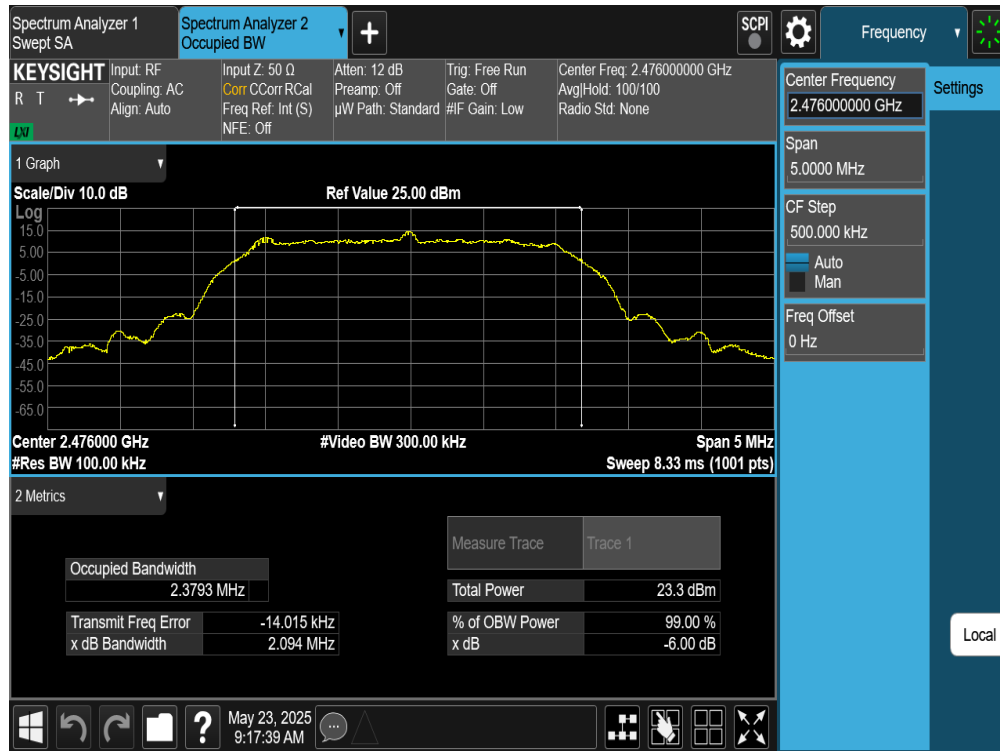


Plot 7-8. 6dB BW & 99% OBW Plot Antenna WF8 (Bluetooth (HDRPS2), 2Mbps, ePA – Ch. 38)

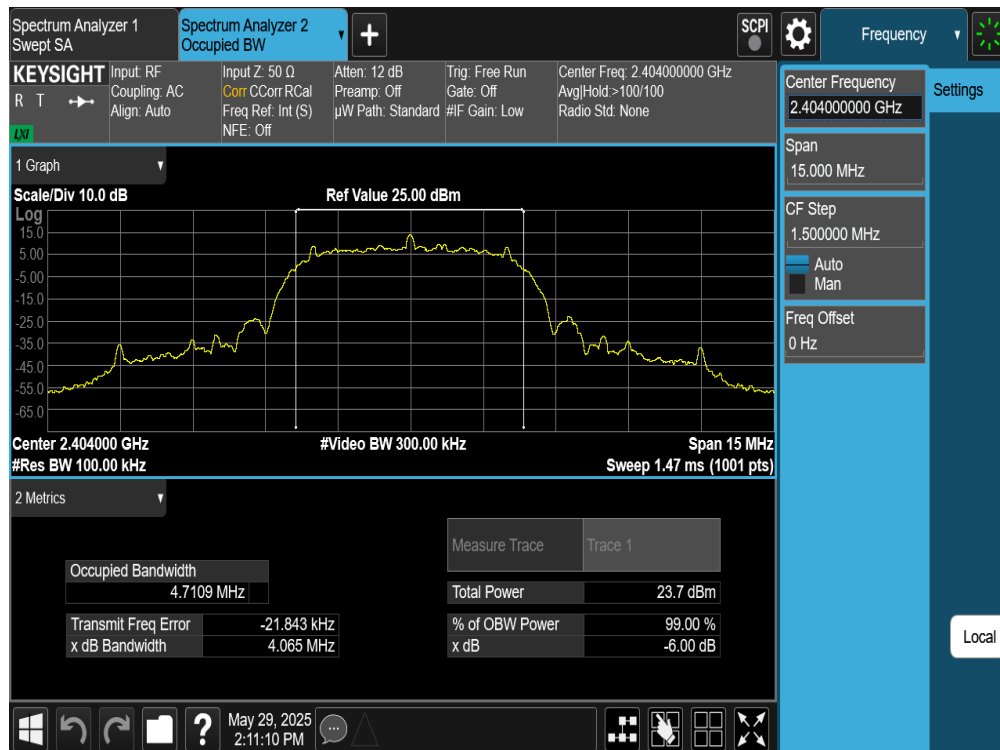
FCC ID: BCGA3360 IC: 579C-A3360	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Plot 7-9. 6dB BW & 99% OBW Plot Antenna WF8 (Bluetooth (HDRPS2), 2Mbps, ePA – Ch. 73)

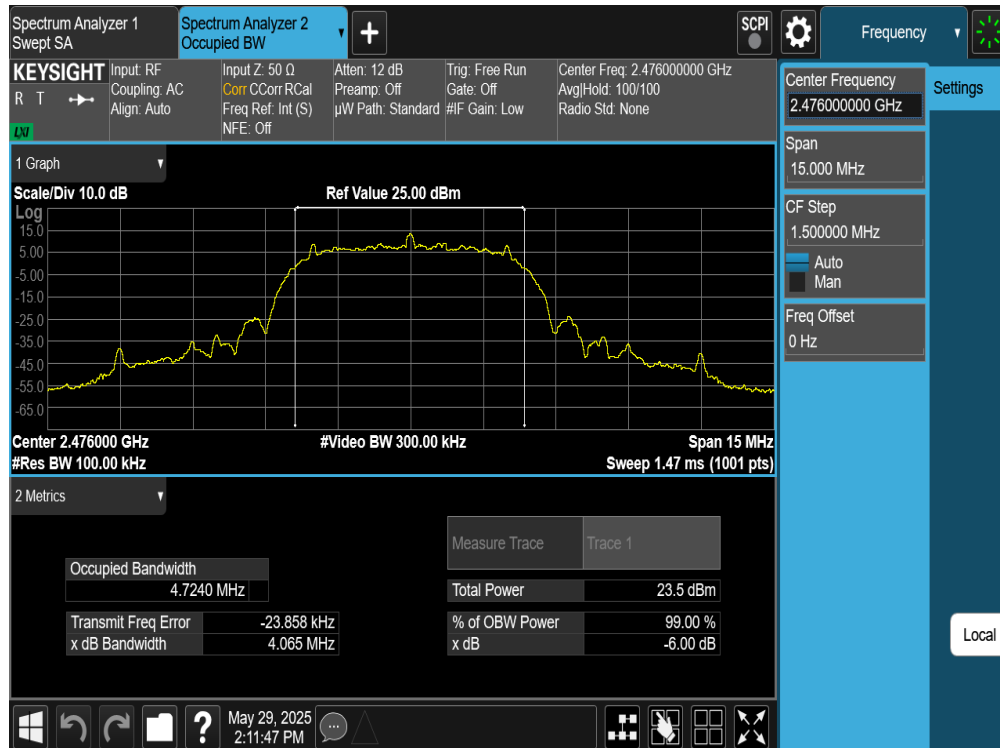
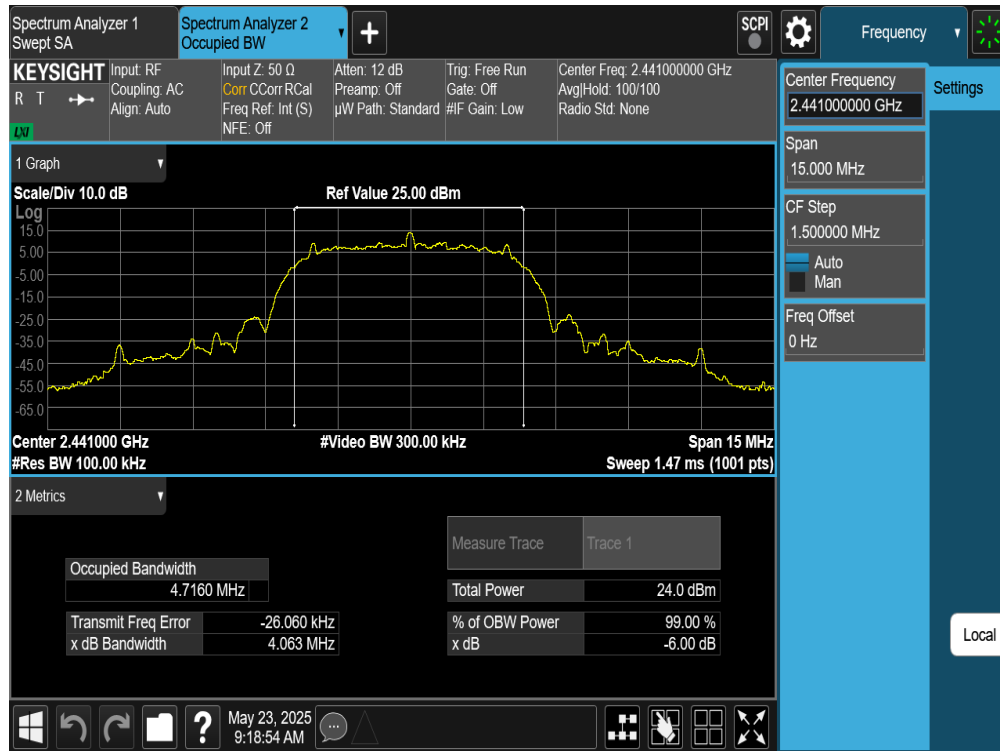


Plot 7-10. 6dB BW & 99% OBW Plot Antenna WF8 (Bluetooth (XHDRPM6), 6Mbps, ePA – Ch. 1)

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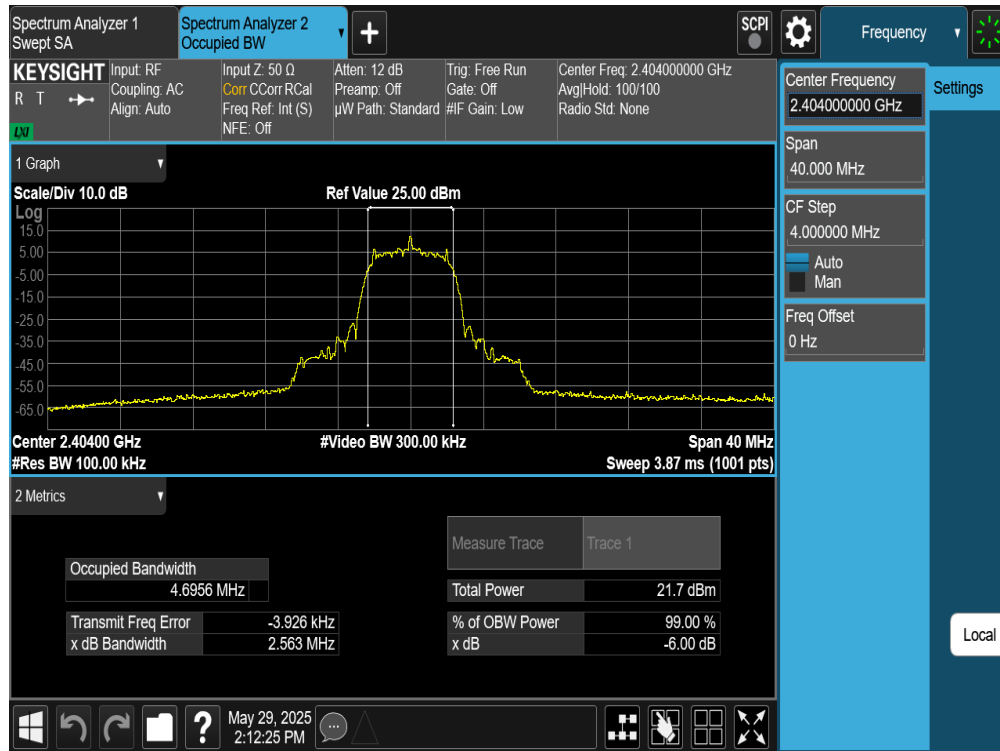
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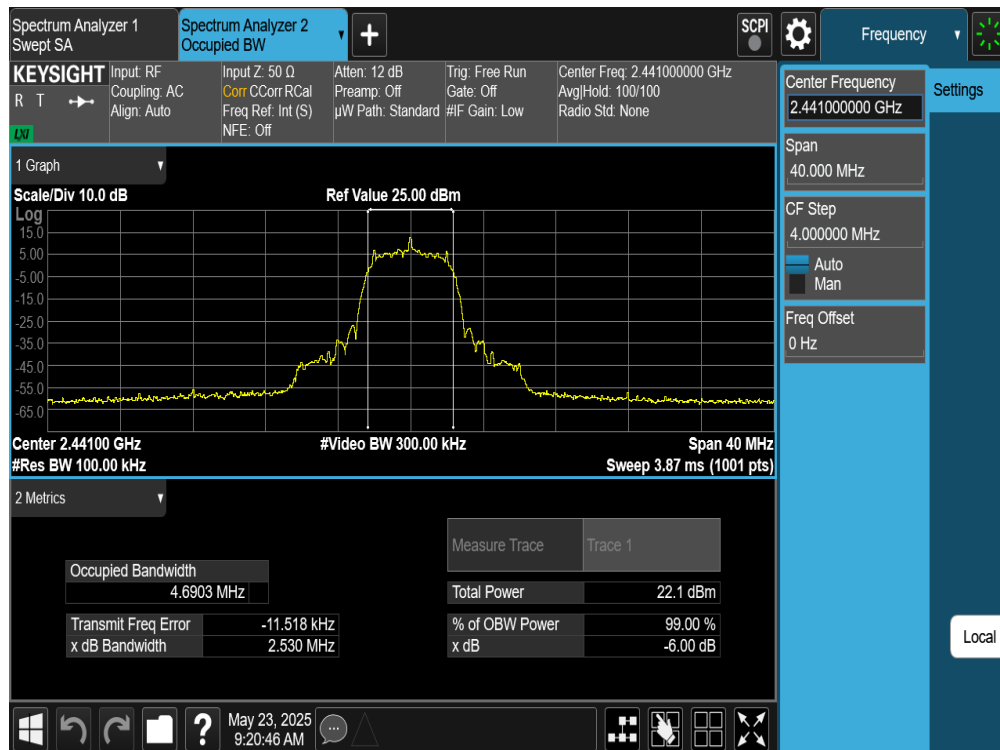
FCC ID: BCGA3360 IC: 579C-A3360		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-13. 6dB BW & 99% OBW Plot Antenna WF8 (Bluetooth (HDRPM16), 16Mbps, ePA – Ch. 1)

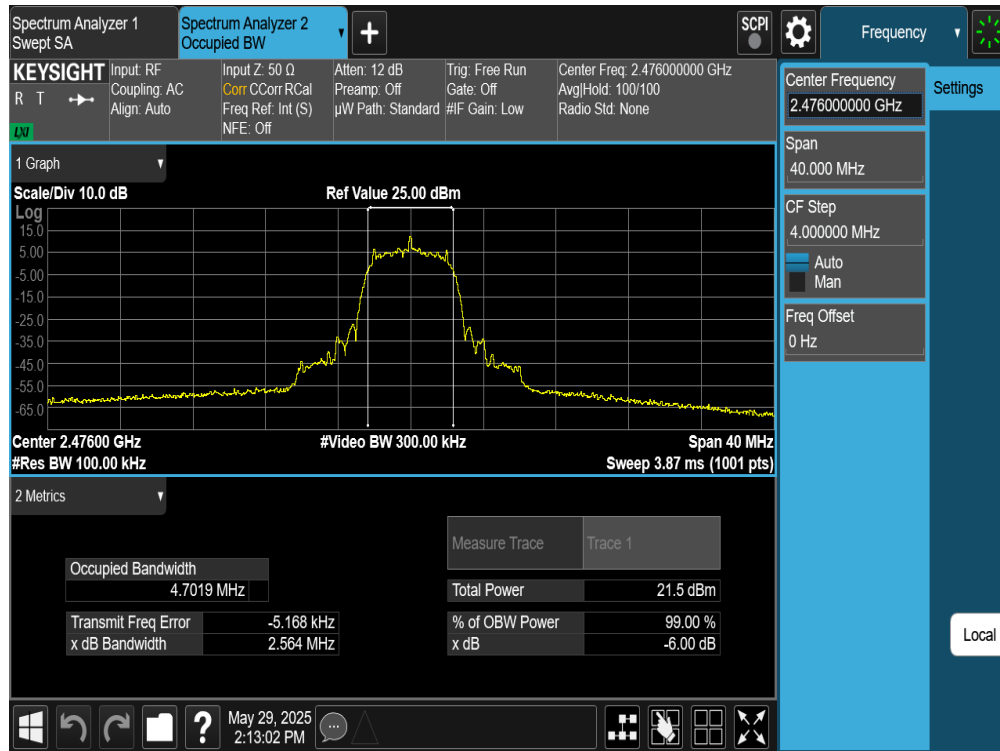


Plot 7-14. 6dB BW & 99% OBW Plot Antenna WF8 (Bluetooth (HDRPM16), 16Mbps, ePA – Ch. 38)

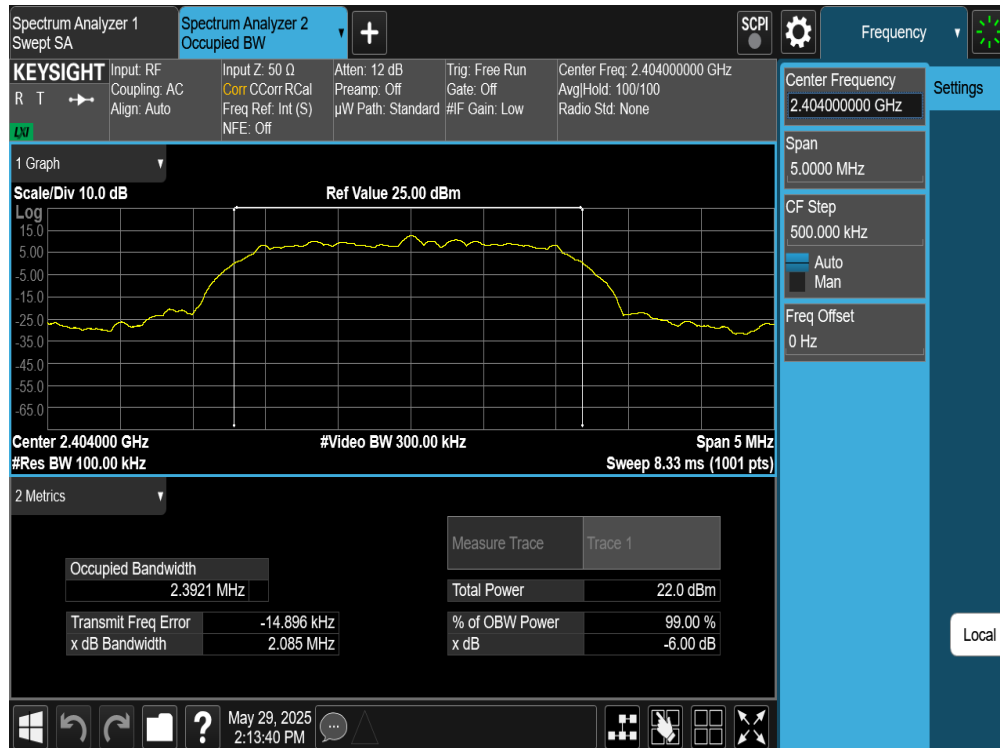
FCC ID: BCGA3360 IC: 579C-A3360		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-15. 6dB BW & 99% OBW Plot Antenna WF8 (Bluetooth (HDRPM16), 16Mbps, ePA – Ch. 73)

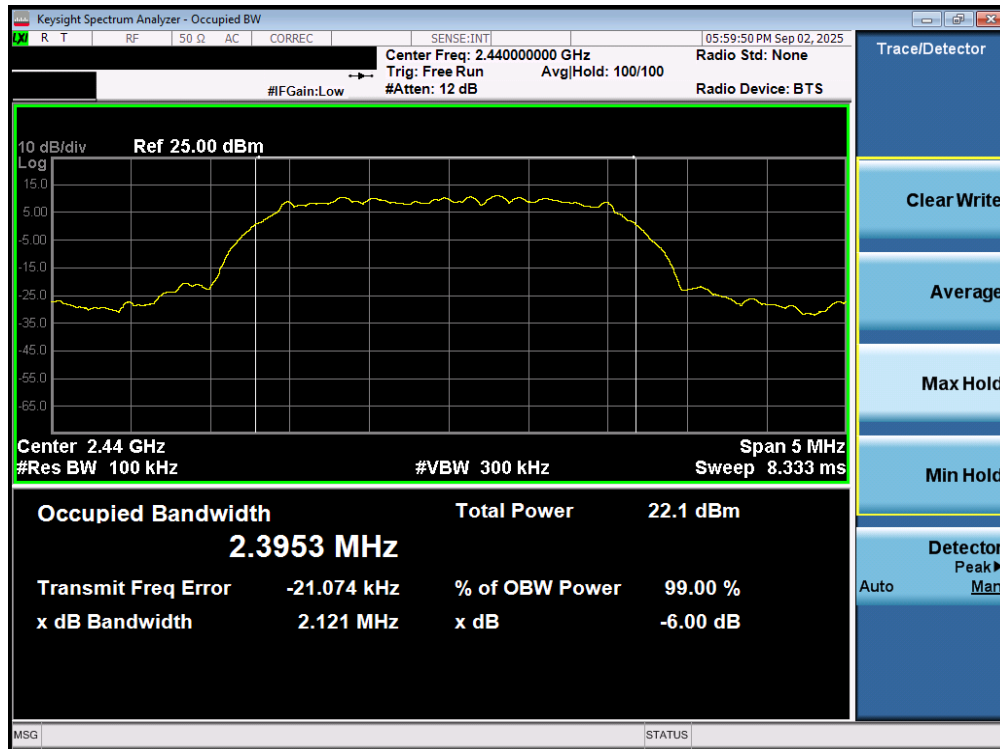


Plot 7-16. 6dB BW & 99% OBW Plot Antenna WF8 (Bluetooth (HDT2), 2Mbps, ePA – Ch. 1)

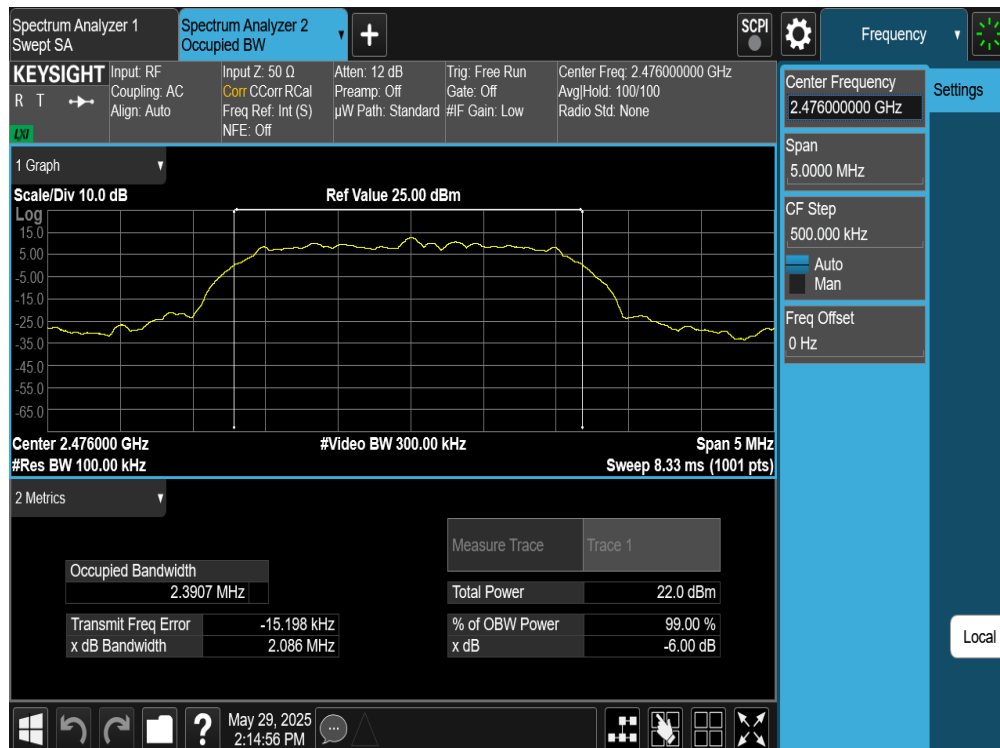
FCC ID: BCGA3360 IC: 579C-A3360		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-17. 6dB BW & 99% OBW Plot Antenna WF8 (Bluetooth (HDT2), 2Mbps, ePA – Ch. 37)



Plot 7-18. 6dB BW & 99% OBW Plot Antenna WF8 (Bluetooth (HDT2), 2Mbps, ePA – Ch. 73)

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7.2.2 Antenna WF7

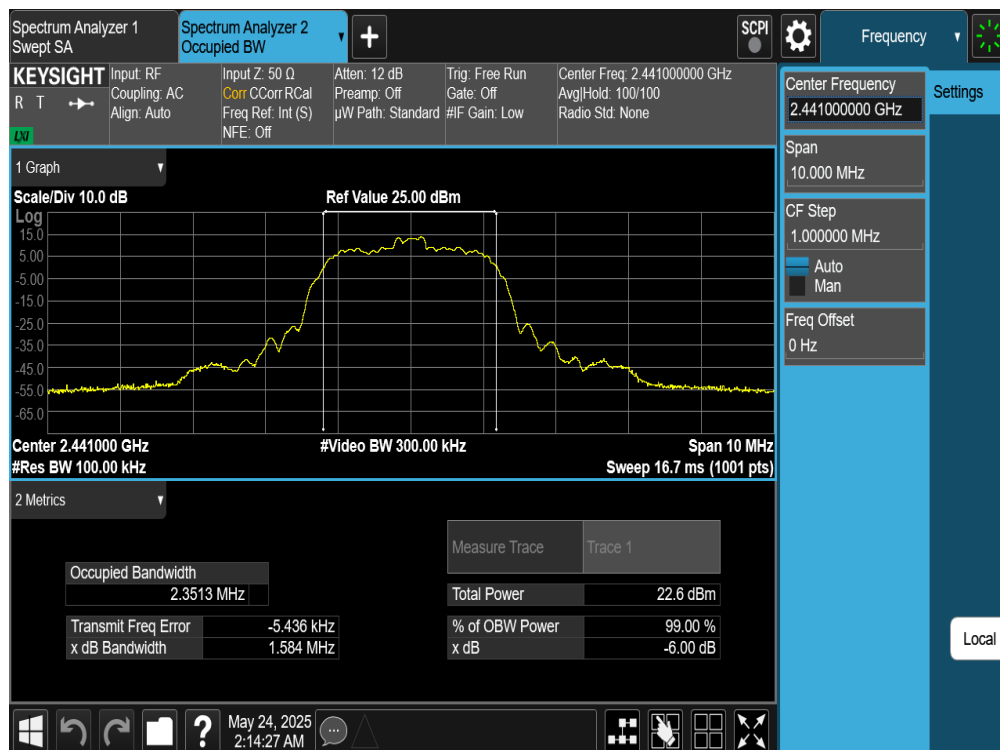
Frequency [MHz]	Mode	Power Scheme	Channel	Measured 99% Occupied Bandwidth [MHz]	Measured 6dB Bandwidth [MHz]	Minimum 6dB Bandwidth [MHz]	Pass/Fail
2404	HDR4	ePA	1	2.354	1.581	0.50	Pass
2441	HDR4	ePA	38	2.351	1.584	0.50	Pass
2476	HDR4	ePA	73	2.354	1.580	0.50	Pass
2404	HDR8	ePA	1	4.645	0.565	0.50	Pass
2441	HDR8	ePA	38	4.642	0.566	0.50	Pass
2476	HDR8	ePA	73	4.646	0.566	0.50	Pass
2404	HDRPS2	ePA	1	2.375	2.092	0.50	Pass
2441	HDRPS2	ePA	38	2.377	2.096	0.50	Pass
2476	HDRPS2	ePA	73	2.377	2.095	0.50	Pass
2404	XHDRPM6	ePA	1	4.723	4.070	0.50	Pass
2441	XHDRPM6	ePA	38	4.713	4.063	0.50	Pass
2476	XHDRPM6	ePA	73	4.711	4.066	0.50	Pass
2404	HDRPM16	ePA	1	4.697	2.694	0.50	Pass
2441	HDRPM16	ePA	38	4.696	4.019	0.50	Pass
2476	HDRPM16	ePA	73	4.692	4.051	0.50	Pass
2404	HDT2	ePA	1	2.390	2.085	0.50	Pass
2440	HDT2	ePA	37	2.394	2.118	0.50	Pass
2476	HDT2	ePA	73	2.389	2.084	0.50	Pass

Table 7-3. 6dB BW & 99% OBW Measurements Antenna WF7

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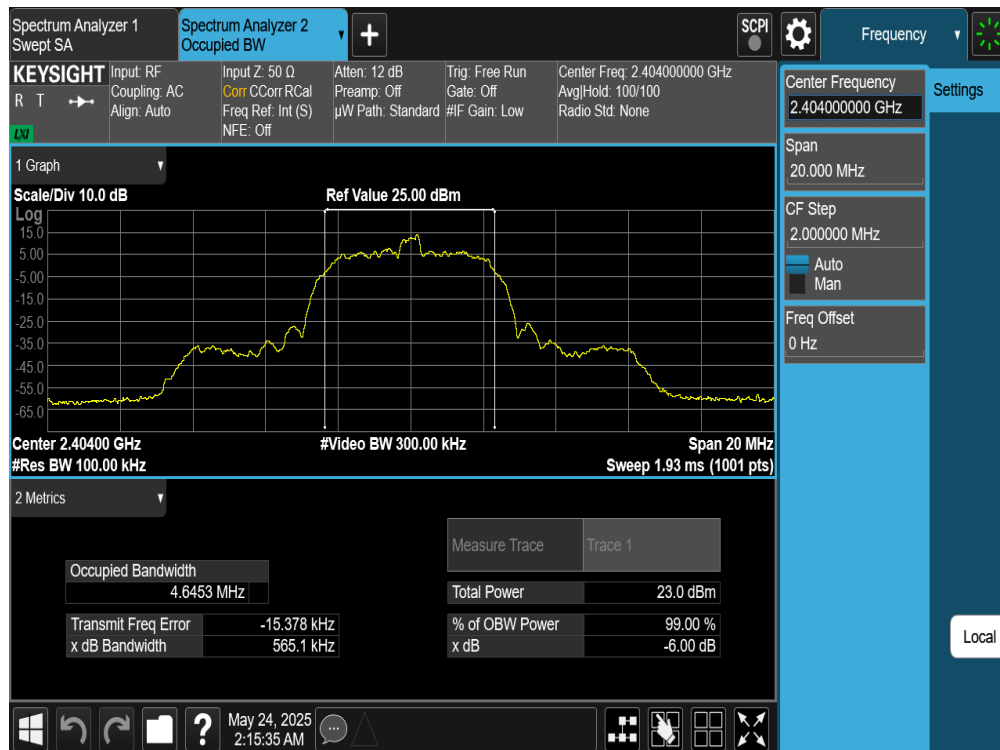
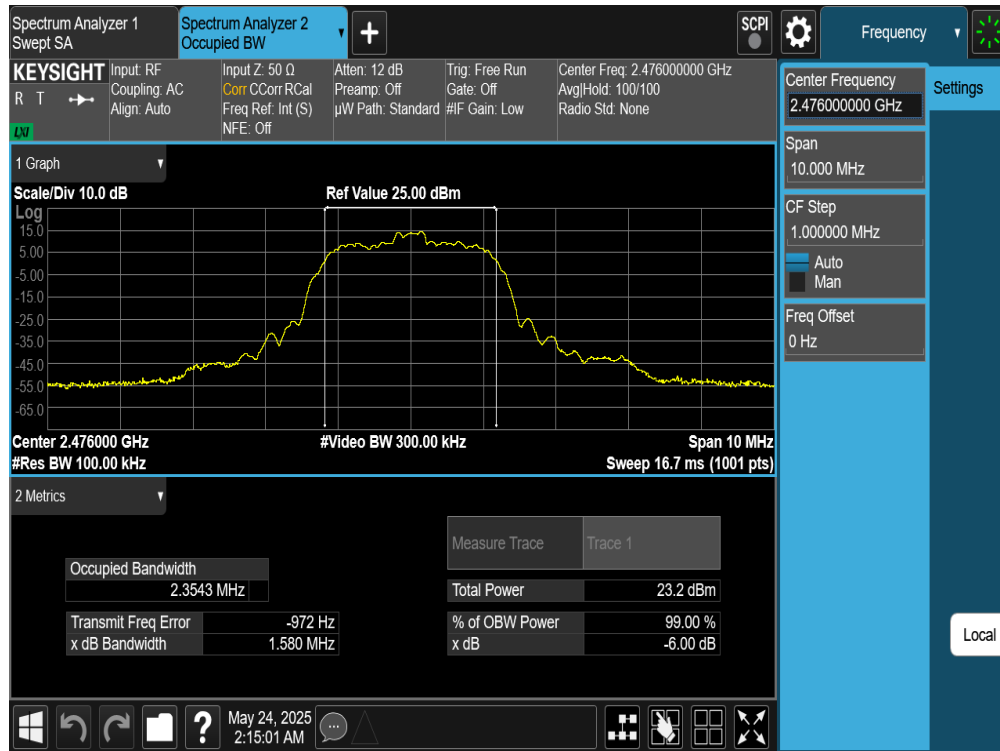
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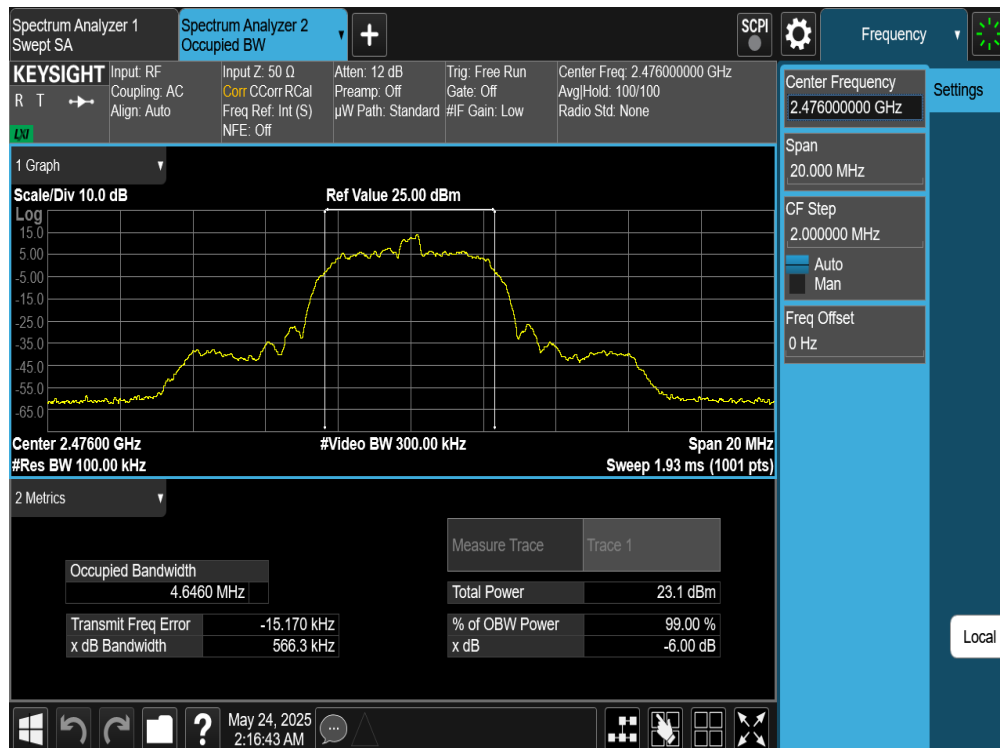
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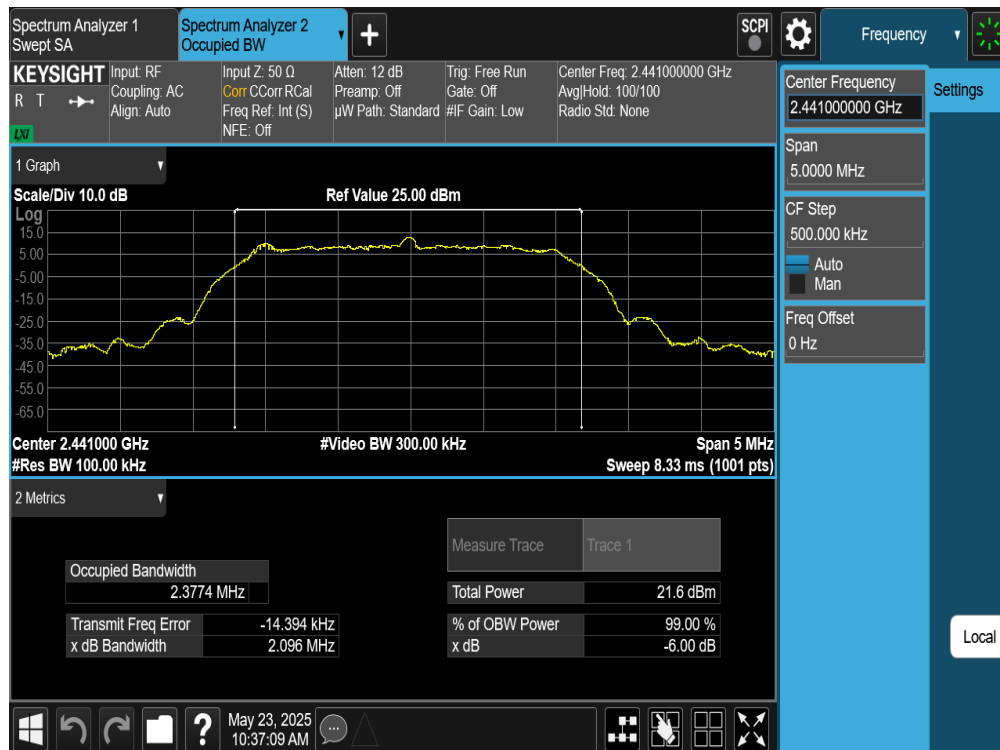
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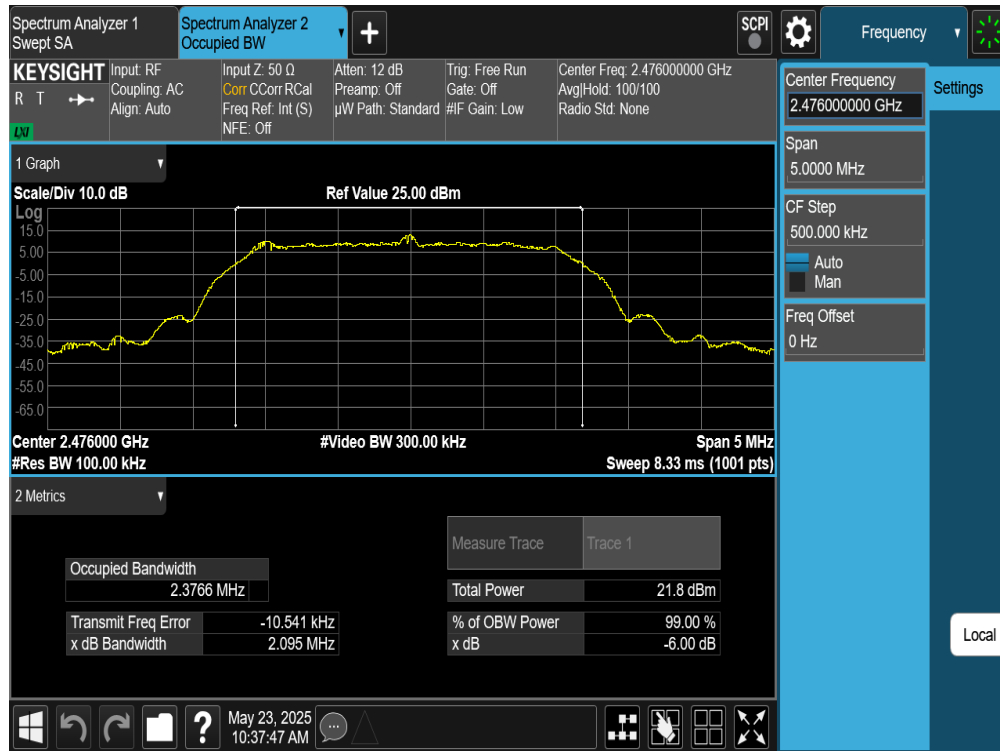
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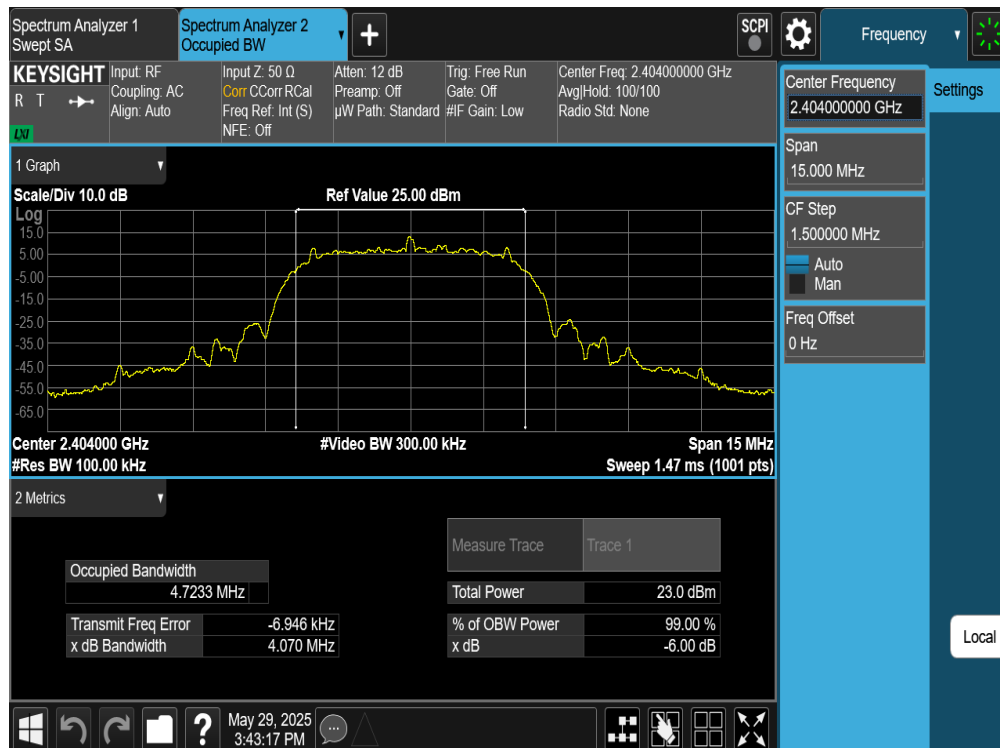
FCC ID: BCGA3360 IC: 579C-A3360		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-27. 6dB BW & 99% OBW Plot Antenna WF7 (Bluetooth (HDRPS2), 2Mbps, ePA – Ch. 73)



Plot 7-28. 6dB BW & 99% OBW Plot Antenna WF7 (Bluetooth (XHDRPM6), 6Mbps, ePA – Ch. 1)

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Spectrum Analyzer 1
Swept SA

Spectrum Analyzer 2
Occupied BW

Frequency

KEYSIGHT

Input: RF
Coupling: AC
Align: Auto

Input Z: 50 Ω
Corr: CCOR RCal
Freq Ref: Int (S)
NFE: Off

Atten: 12 dB
Preamp: Off
 μ W Path: Standard

Trig: Free Run
Gate: Off
#IF Gain: Low

Center Freq: 2.476000000 GHz
Avg/Hold: 100/100
Radio Std: None

1 Graph

Center Frequency
2.476000000 GHz

Settings

Scale/Div 10.0 dB

Span
15.000 MHz

CF Step
1.500000 MHz

Log

Ref Value 25.00 dBm

Auto
Man

Center 2.476000 GHz
#Res BW 100.00 kHz

#Video BW 300.00 kHz

Span 15 MHz
Sweep 1.47 ms (1001 pts)

2 Metrics

Measure Trace
Trace 1

Local

Occupied Bandwidth
4.7109 MHz

Total Power
23.3 dBm

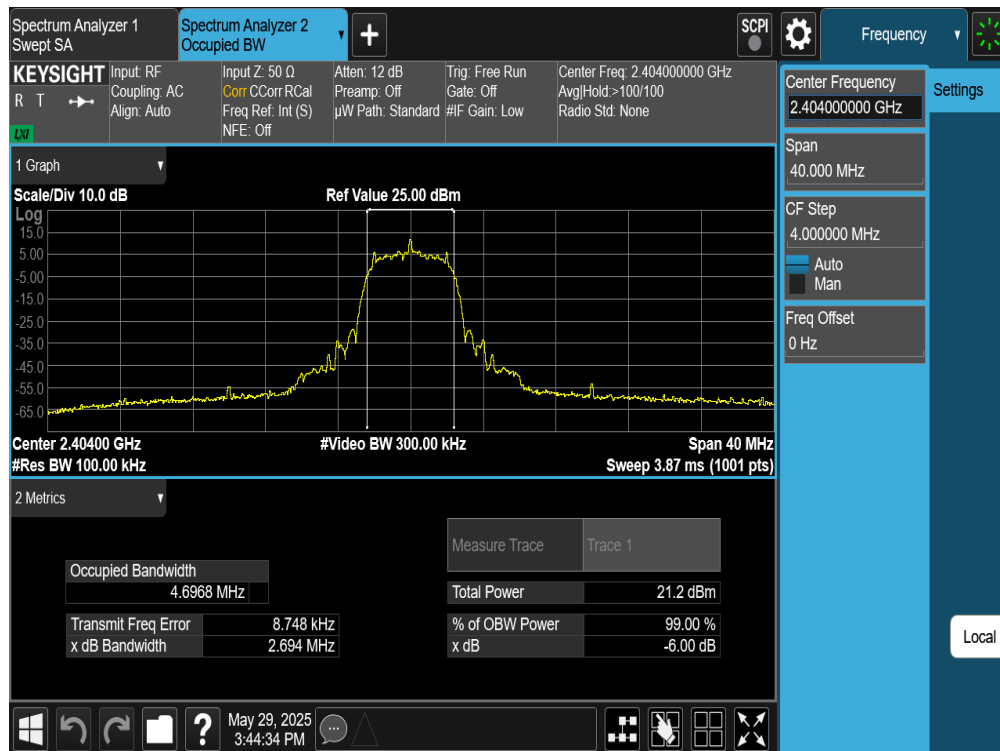
% of OBW Power
99.00 %

Transmit Freq Error
-7.226 kHz

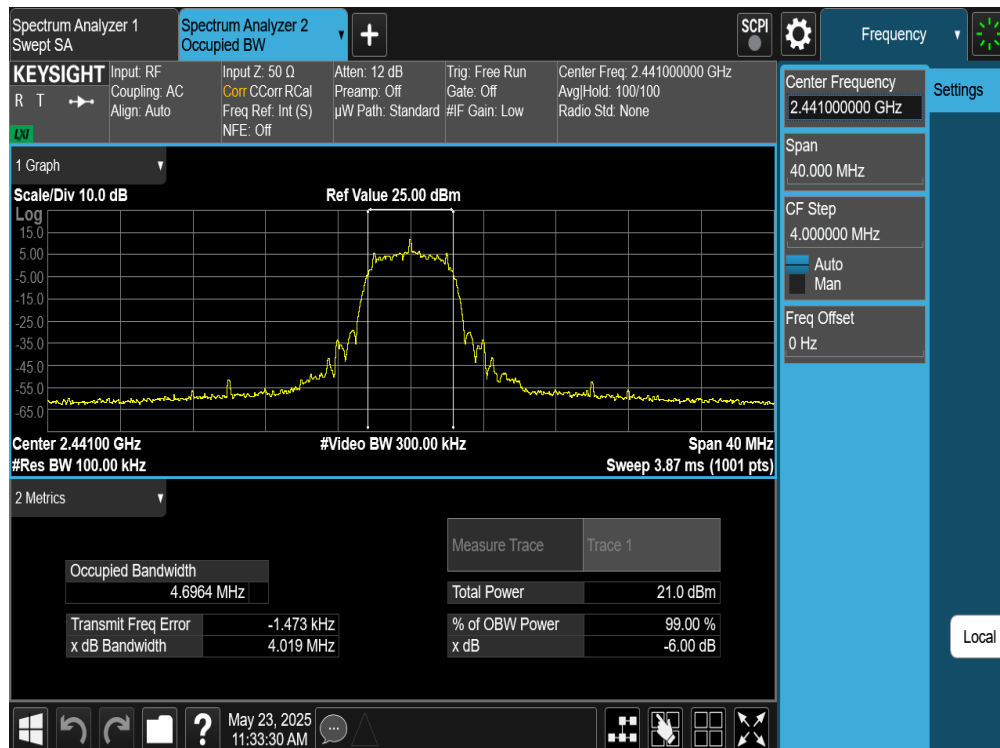
x dB Bandwidth
4.066 MHz

-6.00 dB

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Plot 7-31. 6dB BW & 99% OBW Plot Antenna WF7 (Bluetooth (HDRPM16), 16Mbps, ePA – Ch. 1)

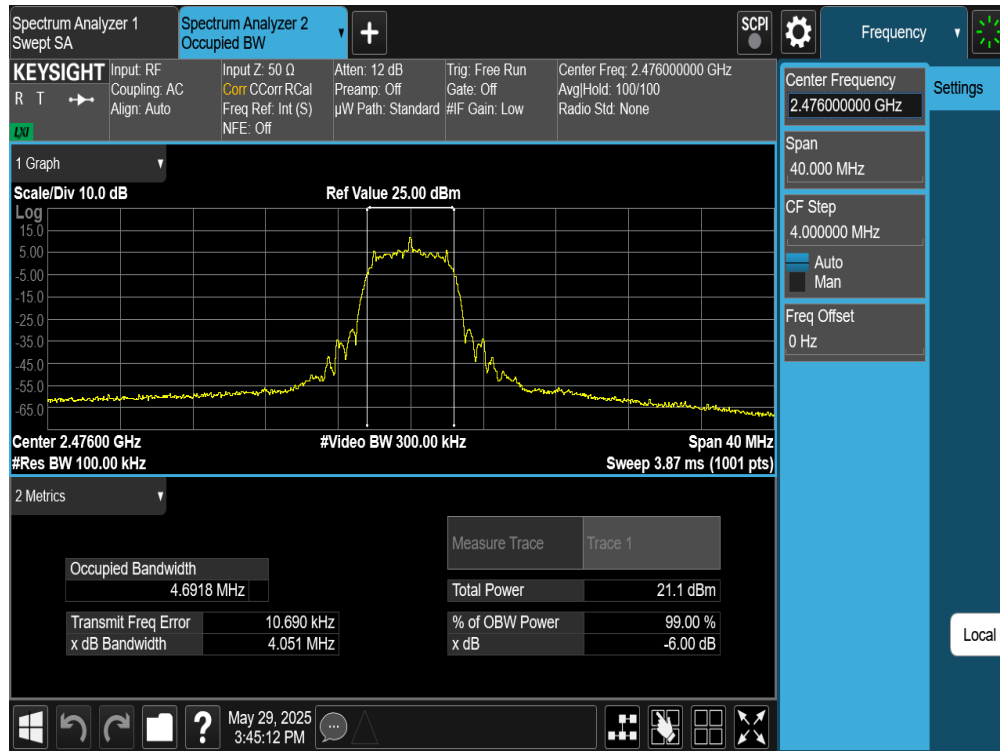


Plot 7-32. 6dB BW & 99% OBW Plot Antenna WF7 (Bluetooth (HDRPM16), 16Mbps, ePA – Ch. 38)

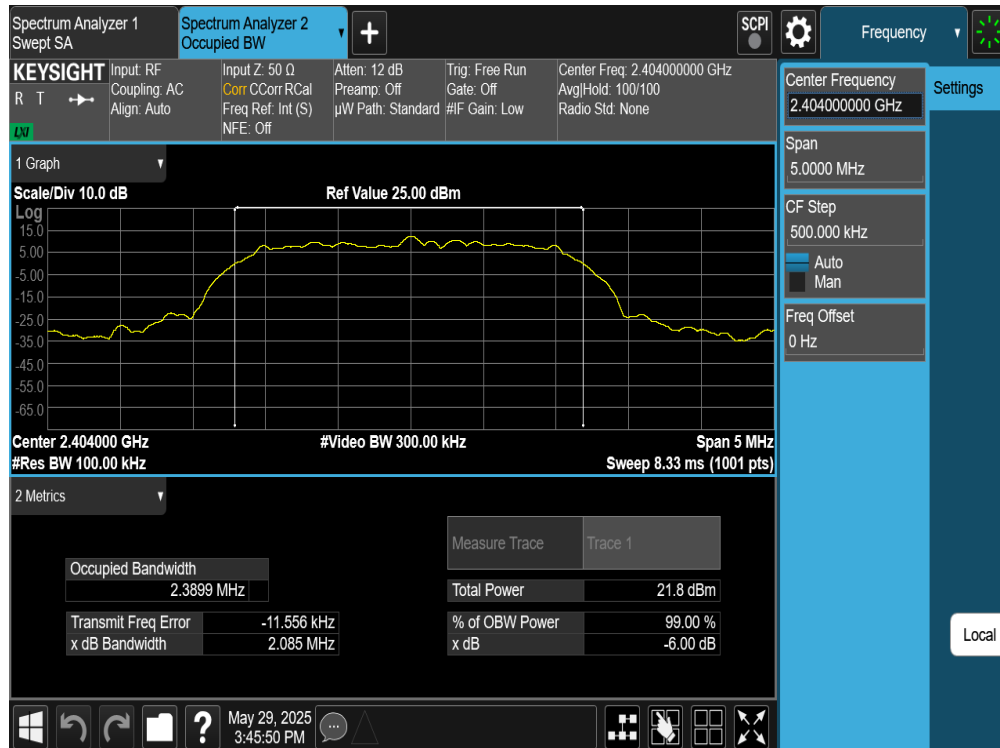
FCC ID: BCGA3360 IC: 579C-A3360		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-33. 6dB BW & 99% OBW Plot Antenna WF7 (Bluetooth (HDRPM16), 16Mbps, ePA – Ch. 73)

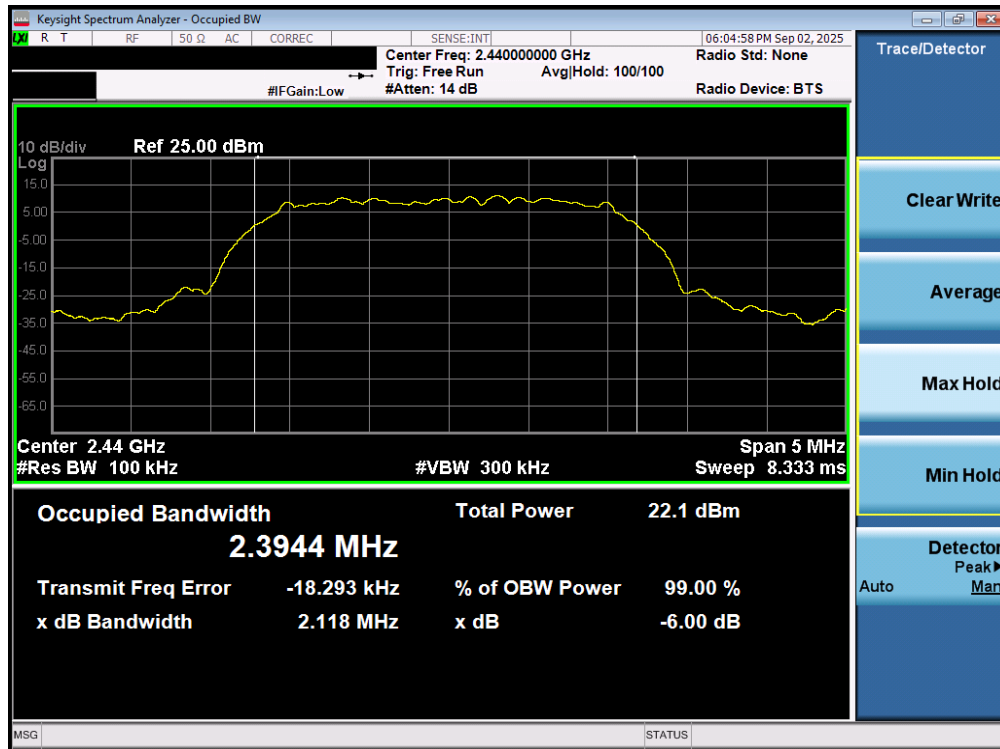


Plot 7-34. 6dB BW & 99% OBW Plot Antenna WF7 (Bluetooth (HDT2), 2Mbps, ePA – Ch. 1)

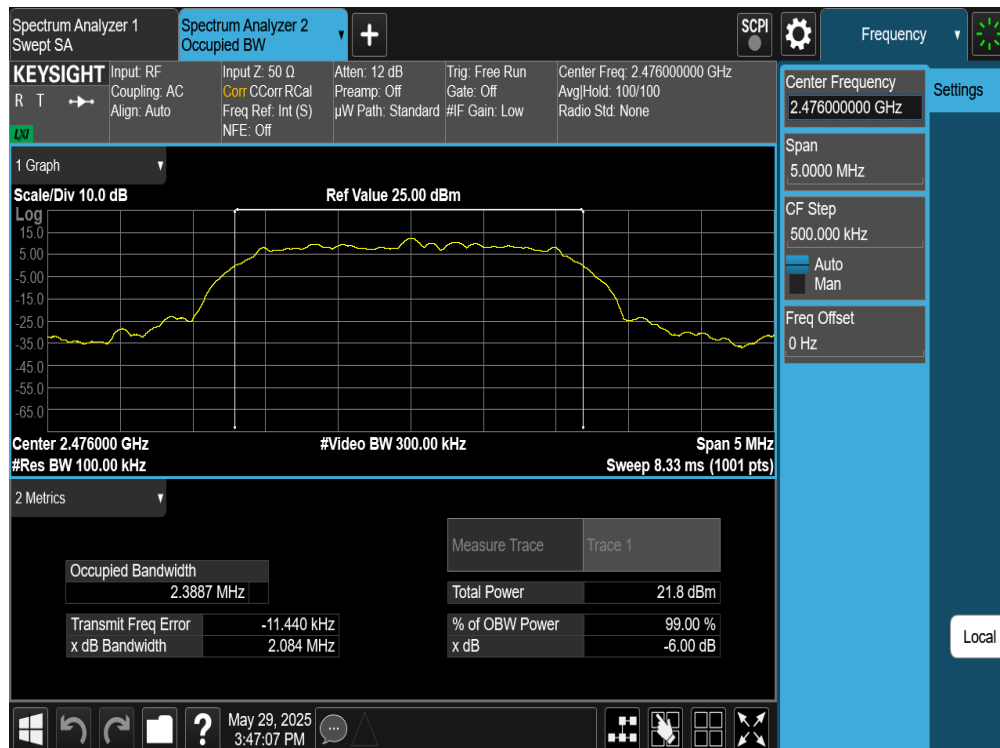
FCC ID: BCGA3360 IC: 579C-A3360		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-35. 6dB BW & 99% OBW Plot Antenna WF7 (Bluetooth (HDT2), 2Mbps, ePA – Ch. 37)



Plot 7-36. 6dB BW & 99% OBW Plot Antenna WF7 (Bluetooth (HDT2), 2Mbps, ePA – Ch. 73)

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7.2.3 Antenna WF9

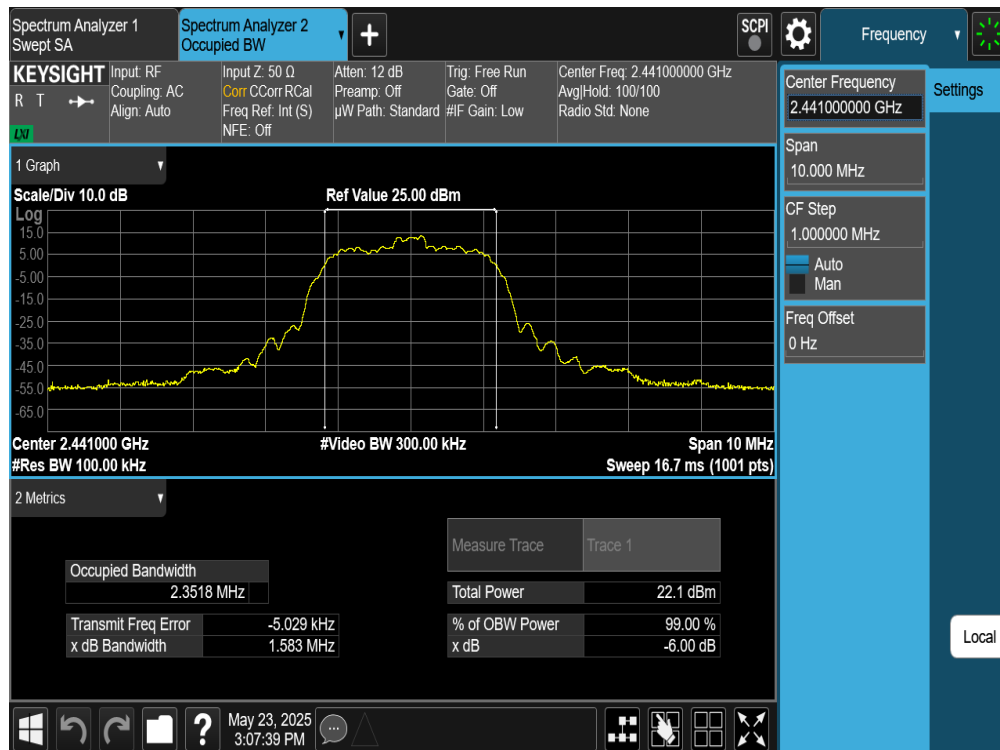
Frequency [MHz]	Mode	Power Scheme	Channel	Measured 99% Occupied Bandwidth [MHz]	Measured 6dB Bandwidth [MHz]	Minimum 6dB Bandwidth [MHz]	Pass/Fail
2404	HDR4	ePA	1	2.353	1.585	0.50	Pass
2441	HDR4	ePA	38	2.352	1.583	0.50	Pass
2476	HDR4	ePA	73	2.354	1.581	0.50	Pass
2404	HDR8	ePA	1	4.643	0.564	0.50	Pass
2441	HDR8	ePA	38	4.642	0.565	0.50	Pass
2476	HDR8	ePA	73	4.647	0.565	0.50	Pass
2404	HDRPS2	ePA	1	2.379	2.105	0.50	Pass
2441	HDRPS2	ePA	38	2.374	2.085	0.50	Pass
2476	HDRPS2	ePA	73	2.379	2.093	0.50	Pass
2404	XHDRPM6	ePA	1	4.722	4.066	0.50	Pass
2441	XHDRPM6	ePA	38	4.714	4.069	0.50	Pass
2476	XHDRPM6	ePA	73	4.710	4.069	0.50	Pass
2404	HDRPM16	ePA	1	4.691	2.692	0.50	Pass
2441	HDRPM16	ePA	38	4.697	2.693	0.50	Pass
2476	HDRPM16	ePA	73	4.686	2.695	0.50	Pass
2404	HDT2	ePA	1	2.389	2.085	0.50	Pass
2440	HDT2	ePA	37	2.394	2.118	0.50	Pass
2476	HDT2	ePA	73	2.389	2.084	0.50	Pass

Table 7-4. 6dB BW & 99% OBW Measurements Antenna WF9

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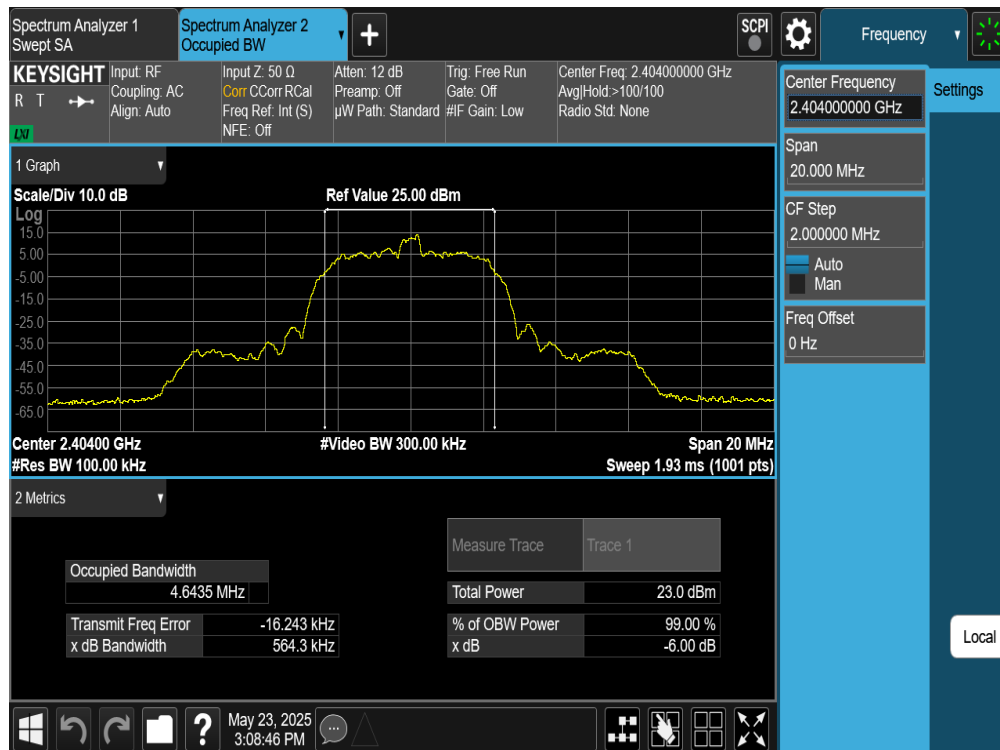
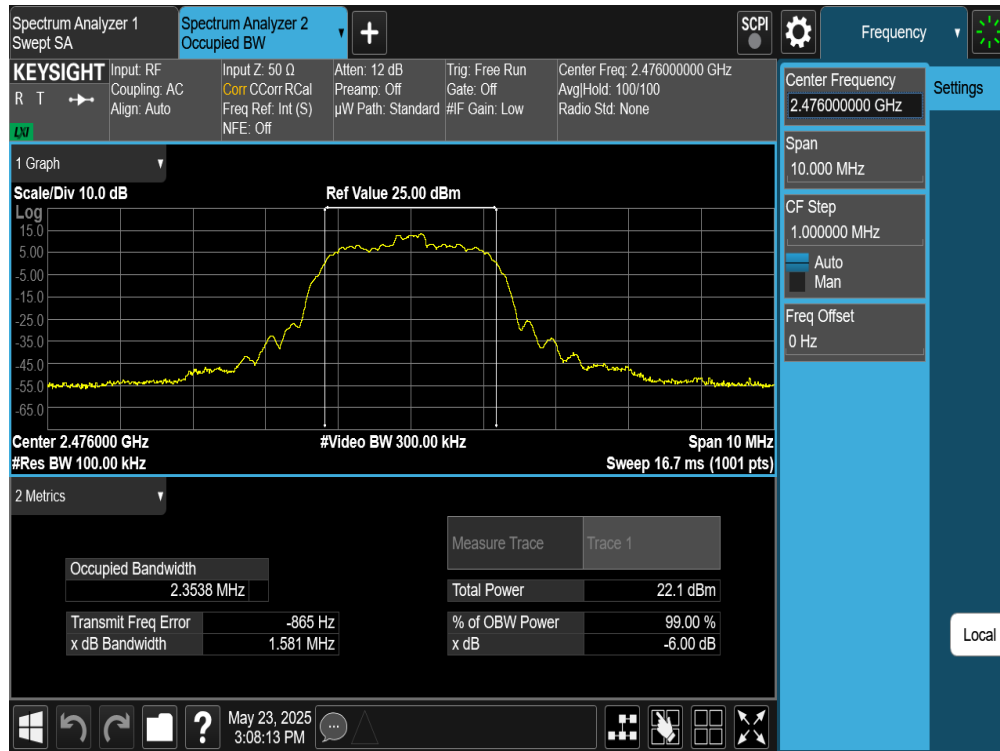
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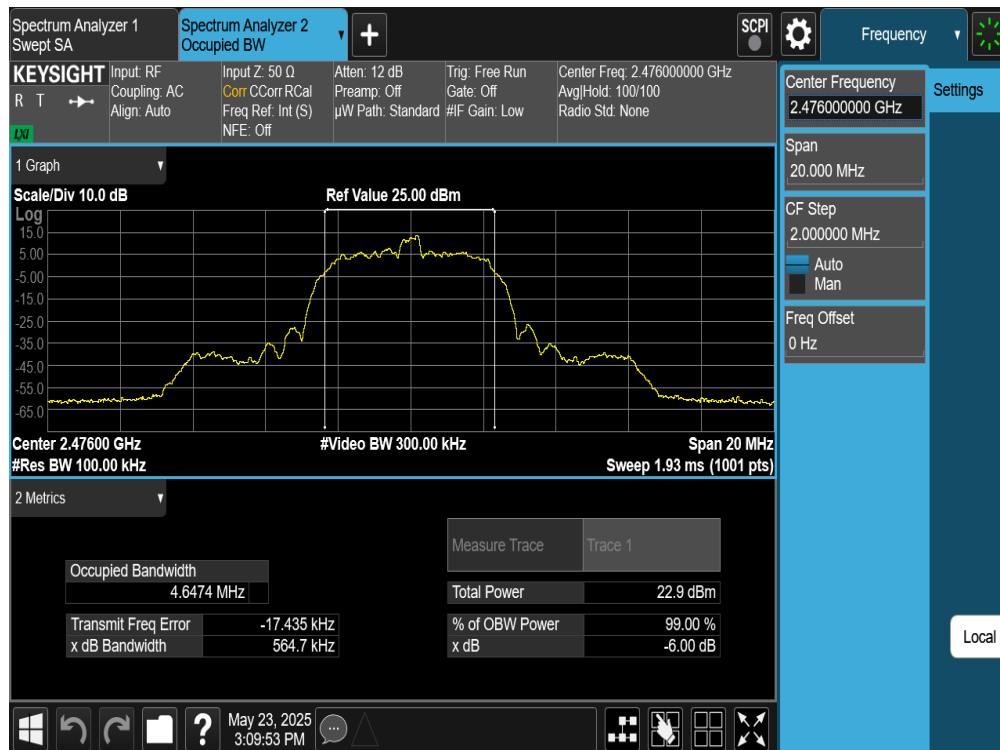
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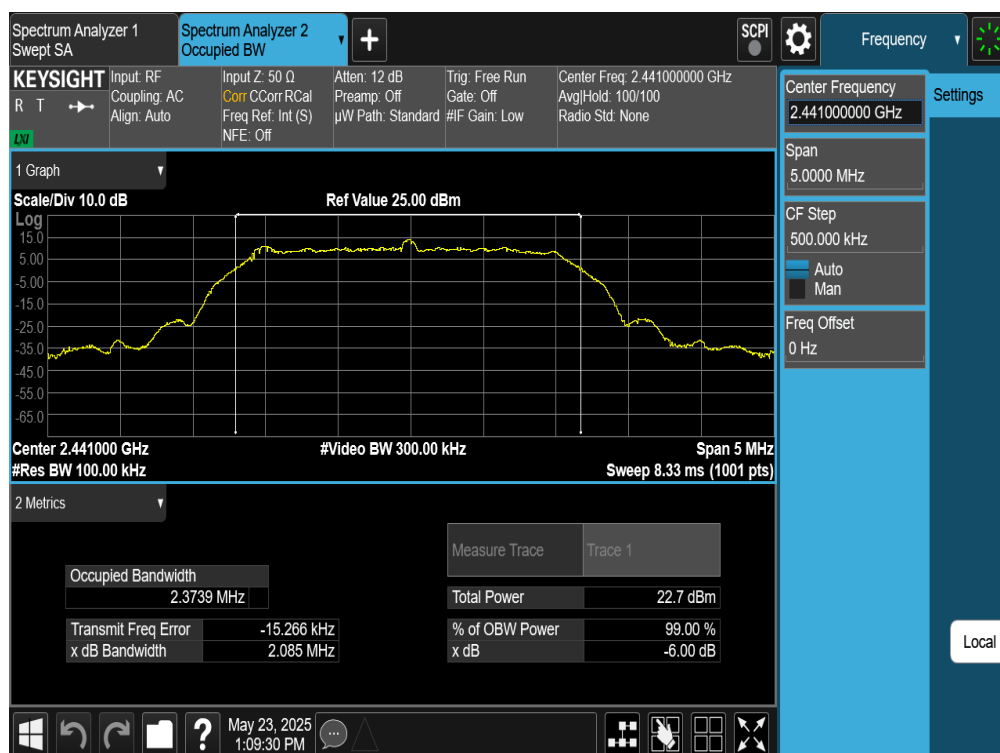
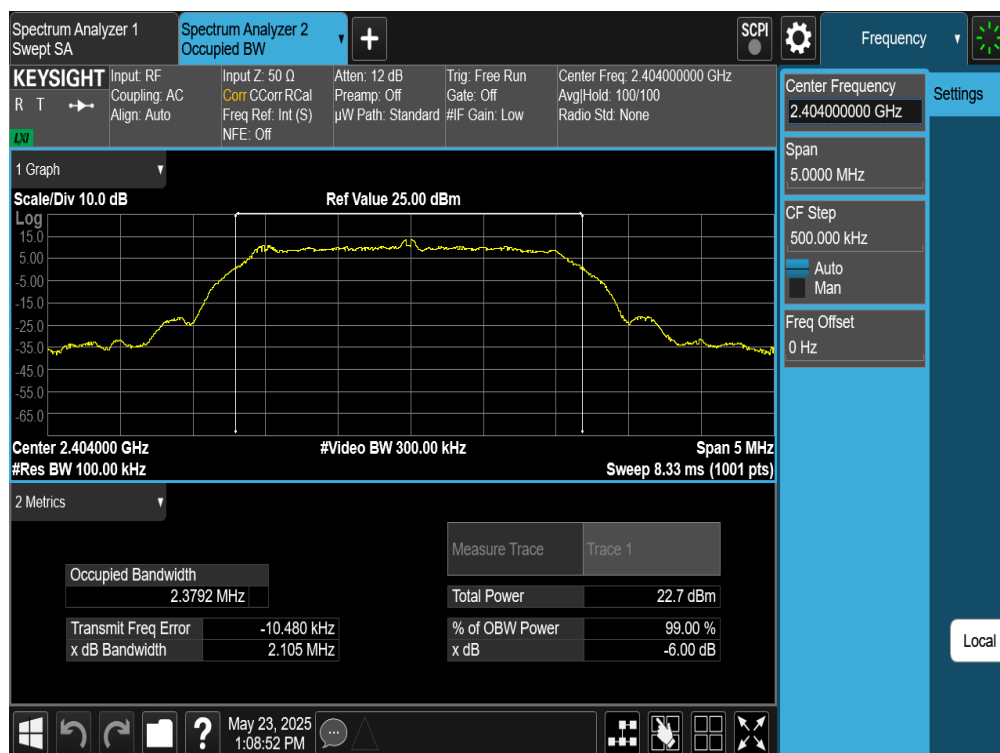
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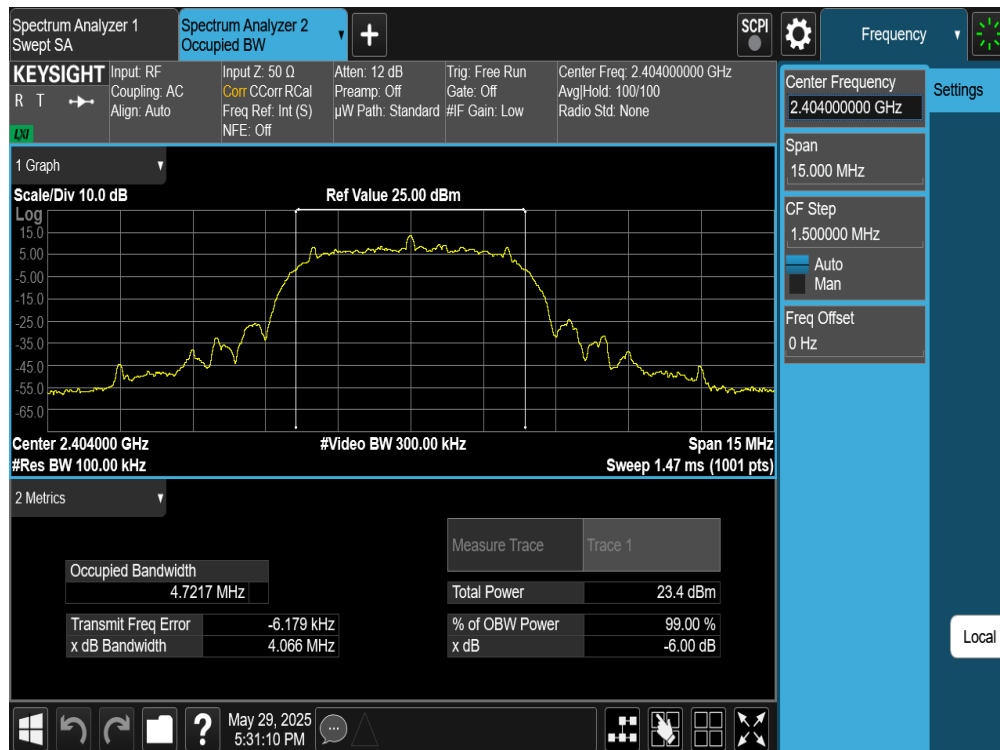
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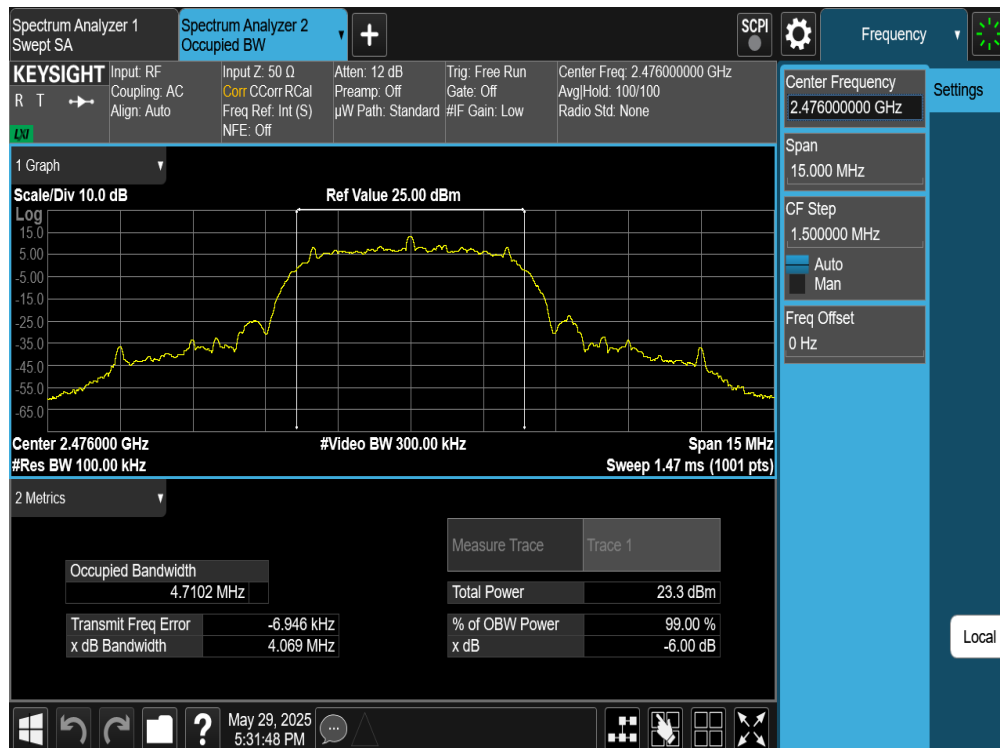
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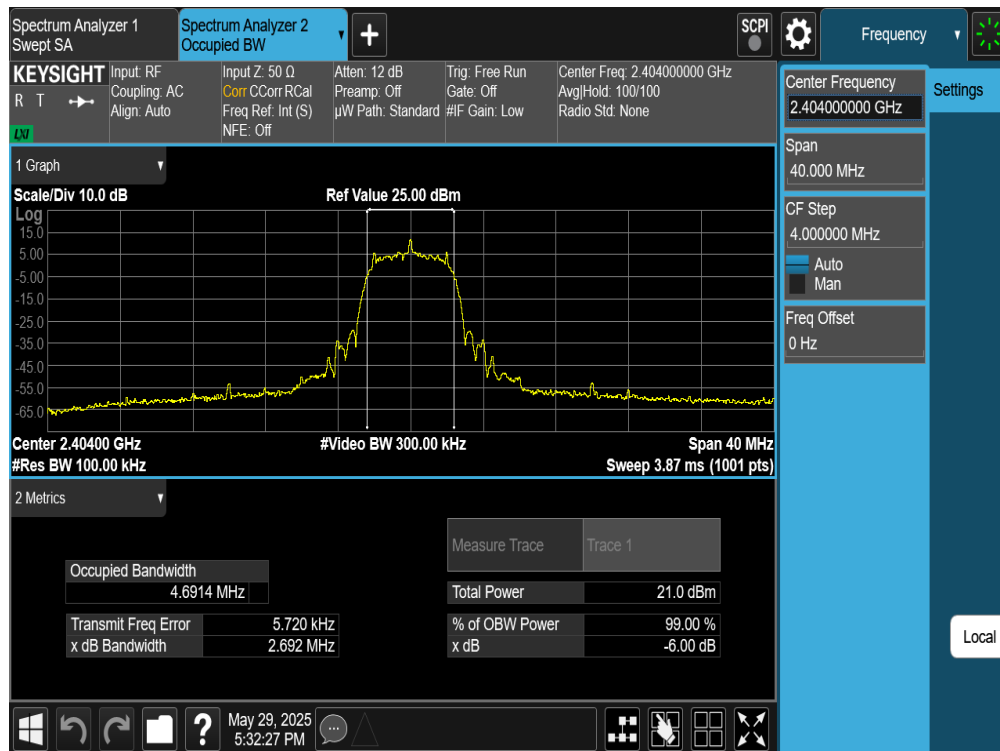


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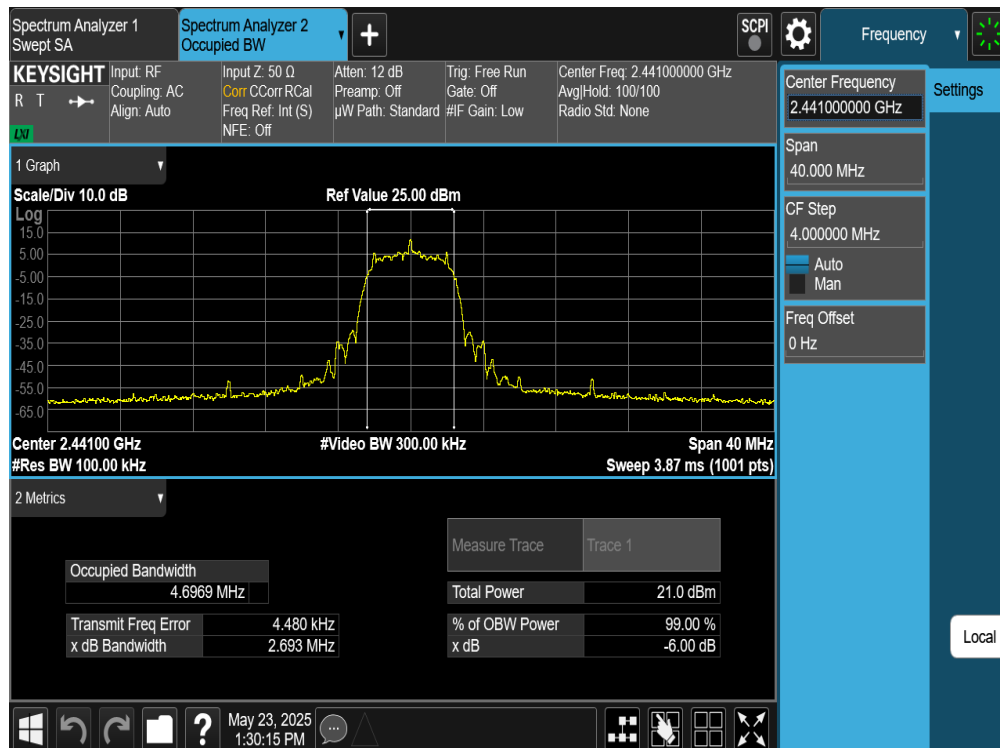
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Plot 7-49. 6dB BW & 99% OBW Plot Antenna WF9 (Bluetooth (HDRPM16), 16Mbps, ePA – Ch. 1)

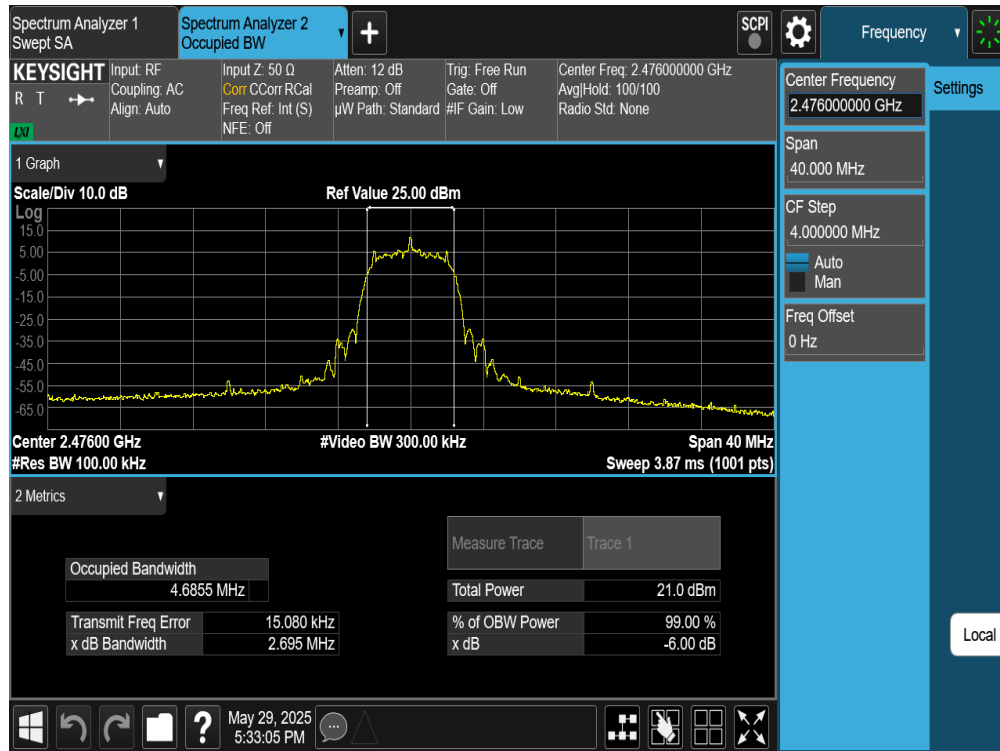


Plot 7-50. 6dB BW & 99% OBW Plot Antenna WF9 (Bluetooth (HDRPM16), 16Mbps, ePA – Ch. 38)

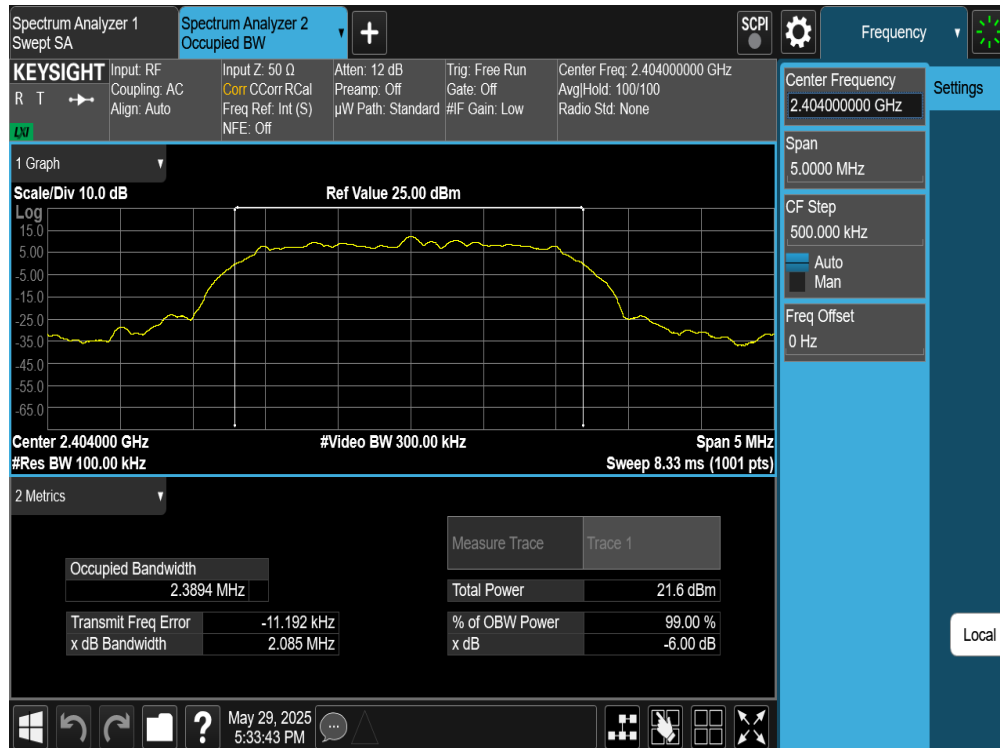
FCC ID: BCGA3360 IC: 579C-A3360		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-51. 6dB BW & 99% OBW Plot Antenna WF9 (Bluetooth (HDRPM16), 16Mbps, ePA – Ch. 73)

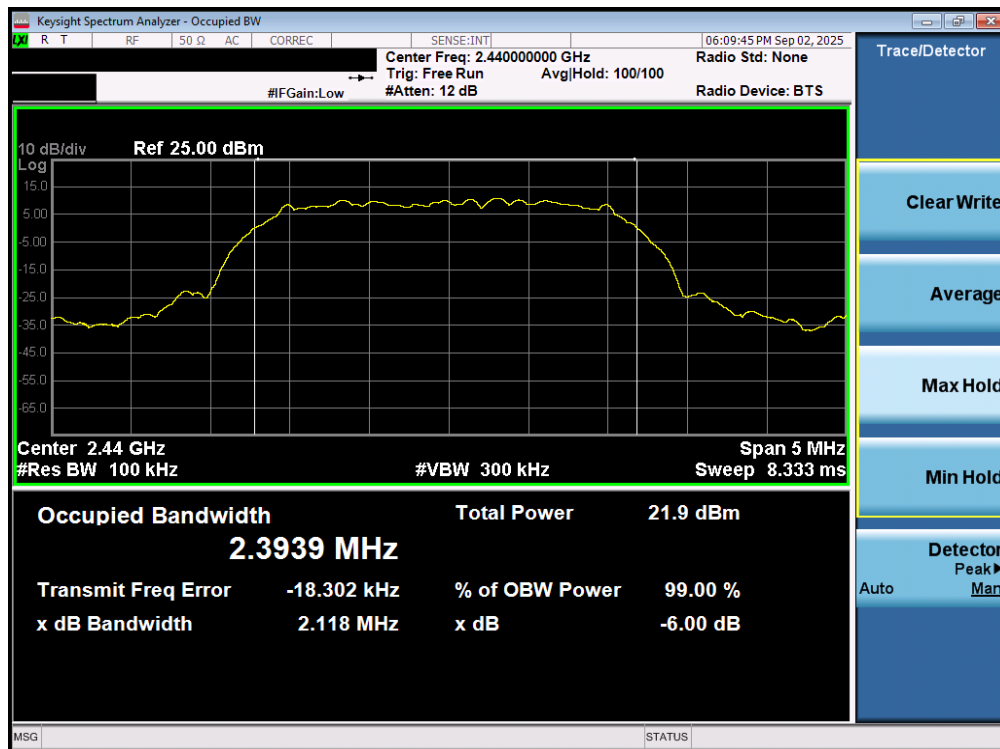


Plot 7-52. 6dB BW & 99% OBW Plot Antenna WF9 (Bluetooth (HDT2), 2Mbps, ePA – Ch. 1)

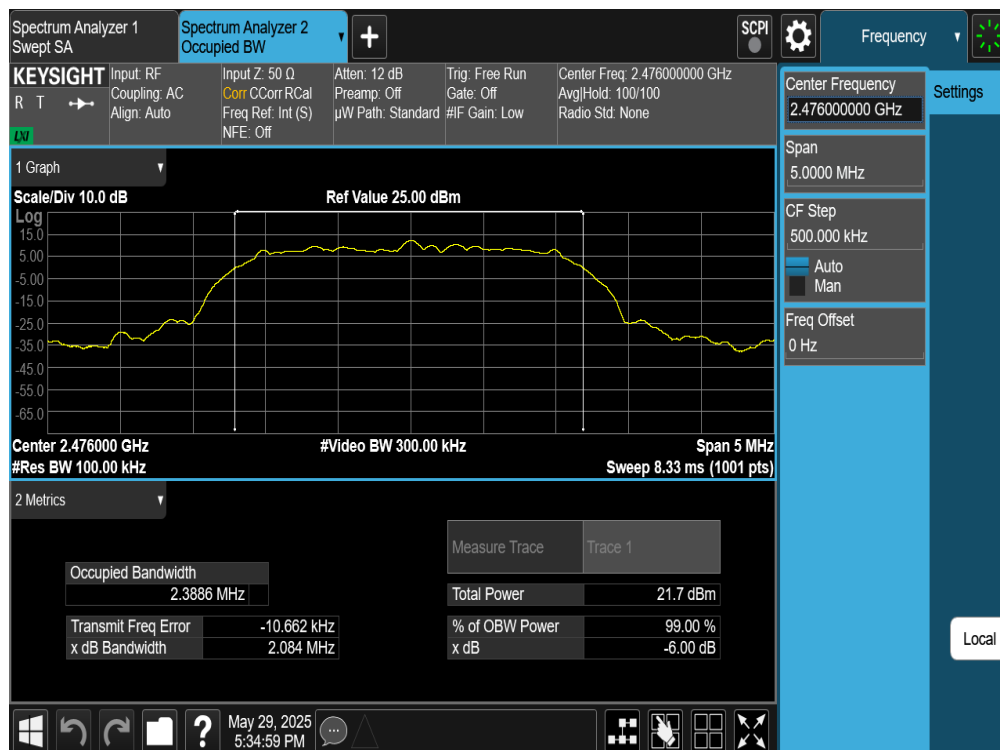
FCC ID: BCGA3360 IC: 579C-A3360		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-53. 6dB BW & 99% OBW Plot Antenna WF9 (Bluetooth (HDT2), 2Mbps, ePA – Ch. 37)



Plot 7-54. 6dB BW & 99% OBW Plot Antenna WF9 (Bluetooth (HDT2), 2Mbps, ePA – Ch. 73)

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7.3 Output Power Measurement

\$15.247(b)(3); RSS-247 [5.4(d)]

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 – 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 – 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 – 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 7-2. Test Instrument & Measurement Setup for Peak and Average Power Measurement

Test Notes

None

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7.3.1 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	16.67	46.452	30.00	-13.33	2.10	18.77	36.02	-17.25
2441	HDR4	ePA	38	16.72	46.989	30.00	-13.28	2.10	18.82	36.02	-17.20
2476	HDR4	ePA	73	16.43	43.954	30.00	-13.57	2.10	18.53	36.02	-17.49
2404	HDR4	iPA	1	8.95	7.852	30.00	-21.05	2.10	11.05	36.02	-24.97
2441	HDR4	iPA	38	8.71	7.434	30.00	-21.29	2.10	10.81	36.02	-25.21
2476	HDR4	iPA	73	9.23	8.375	30.00	-20.77	2.10	11.33	36.02	-24.69
2404	HDR8	ePA	1	16.67	46.452	30.00	-13.33	2.10	18.77	36.02	-17.25
2441	HDR8	ePA	38	16.76	47.424	30.00	-13.24	2.10	18.86	36.02	-17.16
2476	HDR8	ePA	73	16.45	44.157	30.00	-13.55	2.10	18.55	36.02	-17.47
2404	HDR8	iPA	1	8.85	7.674	30.00	-21.15	2.10	10.95	36.02	-25.07
2441	HDR8	iPA	38	8.99	7.925	30.00	-21.01	2.10	11.09	36.02	-24.93
2476	HDR8	iPA	73	8.96	7.870	30.00	-21.04	2.10	11.06	36.02	-24.96
2404	HDRPS2	ePA	1	17.36	54.475	30.00	-12.64	2.10	19.46	36.02	-16.56
2441	HDRPS2	ePA	38	17.08	51.015	30.00	-12.92	2.10	19.18	36.02	-16.84
2476	HDRPS2	ePA	73	16.82	48.029	30.00	-13.19	2.10	18.92	36.02	-17.11
2404	HDRPS2	iPA	1	9.10	8.126	30.00	-20.90	2.10	11.20	36.02	-24.82
2441	HDRPS2	iPA	38	9.03	7.993	30.00	-20.97	2.10	11.13	36.02	-24.89
2476	HDRPS2	iPA	73	9.32	8.553	30.00	-20.68	2.10	11.42	36.02	-24.60
2404	XHDRPM6	ePA	1	17.67	58.425	30.00	-12.33	2.10	19.77	36.02	-16.25
2441	XHDRPM6	ePA	38	17.59	57.385	30.00	-12.41	2.10	19.69	36.02	-16.33
2476	XHDRPM6	ePA	73	17.39	54.802	30.00	-12.61	2.10	19.49	36.02	-16.53
2404	XHDRPM6	iPA	1	9.20	8.325	30.00	-20.80	2.10	11.30	36.02	-24.72
2441	XHDRPM6	iPA	38	9.45	8.806	30.00	-20.55	2.10	11.55	36.02	-24.47
2476	XHDRPM6	iPA	73	8.84	7.652	30.00	-21.16	2.10	10.94	36.02	-25.08
2404	HDRPM16	ePA	1	17.45	55.552	30.00	-12.55	2.10	19.55	36.02	-16.47
2441	HDRPM16	ePA	38	17.44	55.475	30.00	-12.56	2.10	19.54	36.02	-16.48
2476	HDRPM16	ePA	73	17.21	52.626	30.00	-12.79	2.10	19.31	36.02	-16.71
2404	HDRPM16	iPA	1	7.90	6.169	30.00	-22.10	2.10	10.00	36.02	-26.02
2441	HDRPM16	iPA	38	7.72	5.918	30.00	-22.28	2.10	9.82	36.02	-26.20
2476	HDRPM16	iPA	73	8.11	6.464	30.00	-21.90	2.10	10.21	36.02	-25.82
2404	HDT2	ePA	1	17.37	54.576	30.00	-12.63	2.10	19.47	36.02	-16.55
2440	HDT2	ePA	37	17.45	55.629	30.00	-12.55	2.10	19.55	36.02	-16.47
2476	HDT2	ePA	73	17.28	53.420	30.00	-12.72	2.10	19.38	36.02	-16.64
2404	HDT2	iPA	1	8.86	7.697	30.00	-21.14	2.10	10.96	36.02	-25.06
2440	HDT2	iPA	37	9.21	8.329	30.00	-20.79	2.10	11.31	36.02	-24.71
2476	HDT2	iPA	73	9.04	8.008	30.00	-20.97	2.10	11.14	36.02	-24.89

Table 7-5. Peak Conducted Output Power Measurements Antenna WF8 (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	16.18	41.495	30.00	-13.82	1.90	18.08	36.02	-17.94
2441	HDR4	ePA	38	16.27	42.364	30.00	-13.73	1.90	18.17	36.02	-17.85
2476	HDR4	ePA	73	16.92	49.204	30.00	-13.08	1.90	18.82	36.02	-17.20
2404	HDR4	iPA	1	8.27	6.714	30.00	-21.73	1.90	10.17	36.02	-25.85
2441	HDR4	iPA	38	8.21	6.622	30.00	-21.79	1.90	10.11	36.02	-25.91
2476	HDR4	iPA	73	8.24	6.668	30.00	-21.76	1.90	10.14	36.02	-25.88
2404	HDR8	ePA	1	16.49	44.566	30.00	-13.51	1.90	18.39	36.02	-17.63
2441	HDR8	ePA	38	16.32	42.855	30.00	-13.68	1.90	18.22	36.02	-17.80
2476	HDR8	ePA	73	16.40	43.652	30.00	-13.60	1.90	18.30	36.02	-17.72
2404	HDR8	iPA	1	8.16	6.546	30.00	-21.84	1.90	10.06	36.02	-25.96
2441	HDR8	iPA	38	8.05	6.383	30.00	-21.95	1.90	9.95	36.02	-26.07
2476	HDR8	iPA	73	8.12	6.486	30.00	-21.88	1.90	10.02	36.02	-26.00
2404	HDRPS2	ePA	1	16.82	48.029	30.00	-13.19	1.90	18.72	36.02	-17.31
2441	HDRPS2	ePA	38	16.86	48.484	30.00	-13.14	1.90	18.76	36.02	-17.26
2476	HDRPS2	ePA	73	16.79	47.797	30.00	-13.21	1.90	18.69	36.02	-17.33
2404	HDRPS2	iPA	1	8.54	7.148	30.00	-21.46	1.90	10.44	36.02	-25.58
2441	HDRPS2	iPA	38	8.43	6.973	30.00	-21.57	1.90	10.33	36.02	-25.69
2476	HDRPS2	iPA	73	8.57	7.186	30.00	-21.44	1.90	10.47	36.02	-25.56
2404	XHDRPM6	ePA	1	16.93	49.351	30.00	-13.07	1.90	18.83	36.02	-17.19
2441	XHDRPM6	ePA	38	17.18	52.204	30.00	-12.82	1.90	19.08	36.02	-16.94
2476	XHDRPM6	ePA	73	17.28	53.432	30.00	-12.72	1.90	19.18	36.02	-16.84
2404	XHDRPM6	iPA	1	8.60	7.251	30.00	-21.40	1.90	10.50	36.02	-25.52
2441	XHDRPM6	iPA	38	9.19	8.295	30.00	-20.81	1.90	11.09	36.02	-24.93
2476	XHDRPM6	iPA	73	8.97	7.887	30.00	-21.03	1.90	10.87	36.02	-25.15
2404	HDRPM16	ePA	1	16.76	47.370	30.00	-13.25	1.90	18.66	36.02	-17.37
2441	HDRPM16	ePA	38	16.61	45.825	30.00	-13.39	1.90	18.51	36.02	-17.51
2476	HDRPM16	ePA	73	16.56	45.331	30.00	-13.44	1.90	18.46	36.02	-17.56
2404	HDRPM16	iPA	1	7.36	5.439	30.00	-22.65	1.90	9.26	36.02	-26.77
2441	HDRPM16	iPA	38	7.67	5.844	30.00	-22.33	1.90	9.57	36.02	-26.45
2476	HDRPM16	iPA	73	7.79	6.013	30.00	-22.21	1.90	9.69	36.02	-26.33
2404	HDT2	ePA	1	17.05	50.734	30.00	-12.95	1.90	18.95	36.02	-17.07
2440	HDT2	ePA	37	16.96	49.602	30.00	-13.05	1.90	18.86	36.02	-17.17
2476	HDT2	ePA	73	16.94	49.386	30.00	-13.06	1.90	18.84	36.02	-17.18
2404	HDT2	iPA	1	8.52	7.110	30.00	-21.48	1.90	10.42	36.02	-25.60
2440	HDT2	iPA	37	8.64	7.305	30.00	-21.36	1.90	10.54	36.02	-25.48
2476	HDT2	iPA	73	8.69	7.388	30.00	-21.32	1.90	10.59	36.02	-25.44

Table 7-6. Peak Conducted Output Power Measurements Antenna WF7 (Bluetooth HDR)

FCC ID: BCGA3360 IC: 579C-A3360	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2504170040-07-R1.BCG	Test Dates: 05/12/2025 - 09/02/2025	EUT Type: Tablet Device	Page 49 of 305

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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	15.93	39.174	30.00	-14.07	0.50	16.43	36.02	-19.59
2441	HDR4	ePA	38	15.84	38.371	30.00	-14.16	0.50	16.34	36.02	-19.68
2476	HDR4	ePA	73	15.91	38.994	30.00	-14.09	0.50	16.41	36.02	-19.61
2404	HDR4	iPA	1	8.21	6.622	30.00	-21.79	0.50	8.71	36.02	-27.31
2441	HDR4	iPA	38	8.41	6.934	30.00	-21.59	0.50	8.91	36.02	-27.11
2476	HDR4	iPA	73	8.25	6.683	30.00	-21.75	0.50	8.75	36.02	-27.27
2404	HDR8	ePA	1	16.26	42.267	30.00	-13.74	0.50	16.76	36.02	-19.26
2441	HDR8	ePA	38	16.11	40.832	30.00	-13.89	0.50	16.61	36.02	-19.41
2476	HDR8	ePA	73	16.29	42.560	30.00	-13.71	0.50	16.79	36.02	-19.23
2404	HDR8	iPA	1	7.59	5.741	30.00	-22.41	0.50	8.09	36.02	-27.93
2441	HDR8	iPA	38	7.73	5.929	30.00	-22.27	0.50	8.23	36.02	-27.79
2476	HDR8	iPA	73	8.10	6.457	30.00	-21.90	0.50	8.60	36.02	-27.42
2404	HDRP52	ePA	1	16.74	47.185	30.00	-13.26	0.50	17.24	36.02	-18.78
2441	HDRP52	ePA	38	16.98	49.831	30.00	-13.03	0.50	17.48	36.02	-18.55
2476	HDRP52	ePA	73	16.80	47.896	30.00	-13.20	0.50	17.30	36.02	-18.72
2404	HDRP52	iPA	1	9.05	8.037	30.00	-20.95	0.50	9.55	36.02	-26.47
2441	HDRP52	iPA	38	8.93	7.816	30.00	-21.07	0.50	9.43	36.02	-26.59
2476	HDRP52	iPA	73	8.49	7.070	30.00	-21.51	0.50	8.99	36.02	-27.03
2404	XHDRPM6	ePA	1	17.32	54.001	30.00	-12.68	0.50	17.82	36.02	-18.20
2441	XHDRPM6	ePA	38	16.02	40.004	30.00	-13.98	0.50	16.52	36.02	-19.50
2476	XHDRPM6	ePA	73	17.30	53.740	30.00	-12.70	0.50	17.80	36.02	-18.22
2404	XHDRPM6	iPA	1	9.03	8.000	30.00	-20.97	0.50	9.53	36.02	-26.49
2441	XHDRPM6	iPA	38	8.86	7.690	30.00	-21.14	0.50	9.36	36.02	-26.66
2476	XHDRPM6	iPA	73	8.99	7.916	30.00	-21.02	0.50	9.49	36.02	-26.54
2404	HDRPM16	ePA	1	16.60	45.709	30.00	-13.40	0.50	17.10	36.02	-18.92
2441	HDRPM16	ePA	38	16.50	44.638	30.00	-13.50	0.50	17.00	36.02	-19.02
2476	HDRPM16	ePA	73	16.55	45.227	30.00	-13.45	0.50	17.05	36.02	-18.97
2404	HDRPM16	iPA	1	7.19	5.236	30.00	-22.81	0.50	7.69	36.02	-28.33
2441	HDRPM16	iPA	38	7.25	5.305	30.00	-22.75	0.50	7.75	36.02	-28.27
2476	HDRPM16	iPA	73	7.25	5.314	30.00	-22.75	0.50	7.75	36.02	-28.27
2404	HDT2	ePA	1	16.83	48.239	30.00	-13.17	0.50	17.33	36.02	-18.69
2440	HDT2	ePA	37	16.77	47.577	30.00	-13.23	0.50	17.27	36.02	-18.75
2476	HDT2	ePA	73	16.90	48.955	30.00	-13.10	0.50	17.40	36.02	-18.62
2404	HDT2	iPA	1	8.57	7.198	30.00	-21.43	0.50	9.07	36.02	-26.95
2440	HDT2	iPA	37	8.64	7.310	30.00	-21.36	0.50	9.14	36.02	-26.88
2476	HDT2	iPA	73	8.70	7.411	30.00	-21.30	0.50	9.20	36.02	-26.82

Table 7-7. Peak Conducted Output Power Measurements Antenna WF9 (Bluetooth HDR)

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 WF8		Antenna WF7		Summed							
				[dBm]	[mW]	[dBm]	[mW]	[dBm]	[mW]						
2404	HDR4	ePA	1	17.11	51.404	16.09	40.644	19.64	52.049	30.00	-10.36	5.01	24.65	36.02	-11.37
2441	HDR4	ePA	38	16.57	45.394	16.83	48.195	19.71	53.589	30.00	-10.29	5.01	24.72	36.02	-11.30
2476	HDR4	ePA	73	16.88	48.753	16.85	48.417	19.88	57.170	30.00	-10.12	5.01	24.89	36.02	-11.13
2404	HDR4	iPA	1	8.66	7.345	8.16	6.546	11.43	13.892	30.00	-18.57	5.01	16.44	36.02	-19.58
2441	HDR4	iPA	38	8.50	7.079	8.97	7.889	11.75	14.968	30.00	-18.25	5.01	16.76	36.02	-19.26
2476	HDR4	iPA	73	8.48	7.047	8.50	7.079	11.50	14.126	30.00	-18.50	5.01	16.51	36.02	-19.51
2404	HDR8	ePA	1	17.13	51.642	17.11	51.404	20.13	103.046	30.00	-9.87	5.01	25.14	36.02	-10.88
2441	HDR8	ePA	38	16.57	45.394	16.62	45.920	19.61	91.314	30.00	-10.39	5.01	24.62	36.02	-11.40
2476	HDR8	ePA	73	16.87	48.641	16.34	43.053	19.62	91.693	30.00	-10.38	5.01	24.63	36.02	-11.39
2404	HDR8	iPA	1	8.50	7.079	8.08	6.427	11.31	13.506	30.00	-18.69	5.01	16.32	36.02	-19.70
2441	HDR8	iPA	38	8.35	6.839	7.98	6.281	11.18	13.120	30.00	-18.82	5.01	16.19	36.02	-19.83
2476	HDR8	iPA	73	8.90	7.762	8.08	6.427	11.52	14.189	30.00	-18.48	5.01	16.53	36.02	-19.49
2404	HDRP52	ePA	1	17.02	50.350	16.85	48.417	19.95	98.767	30.00	-10.05	5.01	24.96	36.02	-11.06
2441	HDRP52	ePA	38	17.02	50.350	16.83	48.195	19.94	98.545	30.00	-10.06	5.01	24.95	36.02	-11.07
2476	HDRP52	ePA	73	16.75	47.315	16.79	47.753	19.78	95.068	30.00	-10.22	5.01	24.79	36.02	-11.23
2404	HDRP52	iPA	1	9.08	8.091	8.50	7.079	11.81	15.170	30.00	-18.19	5.01	16.82	36.02	-19.20
2441	HDRP52	iPA	38	8.93	7.816	7.90	6.166	11.46	13.982	30.00	-18.54	5.01	16.47	36.02	-19.55
2476	HDRP52	iPA	73	9.55	9.016	8.01	6.324	11.86	15.340	30.00	-18.14	5.01	16.87	36.02	-19.15
2404	XHDRPM6	ePA	1	17.08	51.050	16.87	48.641	19.99	99.691	30.00	-10.01	5.01	25.00	36.02	-11.02
2441	XHDRPM6	ePA	38	17.09	51.168	17.15	51.880	20.13	103.048	30.00	-9.87	5.01	25.14	36.02	-10.88
2476	XHDRPM6	ePA	73	16.77	47.534	17.25	53.088	20.03	100.622	30.00	-9.97	5.01	25.04	36.02	-10.98
2404	XHDRPM6	iPA	1	9.22	8.356	7.70	5.888	11.54	14.244	30.00	-18.46	5.01	16.55	36.02	-19.47
2441	XHDRPM6	iPA	38	8.85	7.674	8.31	6.776	11.60	14.450	30.00	-18.40	5.01	16.61	36.02	-19.41
2476	XHDRPM6	iPA	73	9.51	8.933	8.93	7.816	12.24	16.749	30.00	-17.76	5.01	17.25	36.02	-18.77
2404	HDRPM16	ePA	1	17.38	54.702	16.70	46.774	20.06	101.475	30.00	-9.94	5.01	25.07	36.02	-10.95
2441	HDRPM16	ePA	38	17.39	54.828	16.57	45.394	20.01	100.222	30.00	-9.99	5.01	25.02	36.02	-11.00
2476	HDRPM16	ePA	73	17.16	52.000	16.54	45.082	19.87	97.081	30.00	-10.13	5.01	24.88	36.02	-11.14
2404	HDRPM16	iPA	1	7.99	6.295	7.32	5.395	10.68	11.690	30.00	-19.32	5.01	15.69	36.02	-20.33
2441	HDRPM16	iPA	38	8.17	6.561	8.05	6.383	11.12	12.944	30.00	-18.88	5.01	16.13	36.02	-19.89
2476	HDRPM16	iPA	73	8.06	6.397	7.76	5.970	10.92	12.368	30.00	-19.08	5.01	15.93	36.02	-20.09
2404	HDT2	ePA	1	17.28	53.456	16.44	44.055	19.89	97.512	30.00	-10.11	5.01	24.90	36.02	-11.12
2440	HDT2	ePA	37	17.39	54.828	16.91	49.091	20.17	103.918	30.00	-9.83	5.01	25.18	36.02	-10.84
2476	HDT2	ePA	73	17.19	52.360	16.91	49.091	20.06	101.451	30.00	-9.94	5.01	25.07	36.02	-10.95
2404	HDT2	iPA	1	8.80	7.586	8.46	7.015	11.64	14.600	30.00	-18.36	5.01	16.65	36.02	-19.37
2440	HDT2	iPA	37	9.15	8.222	8.62	7.278	11.90	15.500	30.00	-18.10	5.01	16.91	36.02	-19.11
2476	HDT2	iPA	73	9.01	7.982	8.67	7.362	11.85	15.324	30.00	-18.15	5.01	16.86	36.02	-19.16

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

FCC ID: BCGA3360 IC: 579C-A3360		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2504170040-07-R1.BCG	Test Dates: 05/12/2025 - 09/02/2025	EUT Type: Tablet Device	Page 50 of 305	

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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 WF8		Antenna WF9		Summed							
				[dBm]	[mW]	[dBm]	[mW]	[dBm]	[mW]						
2404	HDR4	ePA	1	17.11	51.404	16.34	43.053	19.75	94.457	30.00	-10.25	4.35	24.10	36.02	-11.92
2441	HDR4	ePA	38	16.57	45.394	16.22	41.879	19.41	87.274	30.00	-10.59	4.35	23.76	36.02	-12.26
2476	HDR4	ePA	73	16.88	48.753	16.34	43.053	19.63	91.806	30.00	-10.37	4.35	23.98	36.02	-12.04
2404	HDR4	iPA	1	8.66	7.345	8.61	7.261	11.65	14.606	30.00	-18.35	4.35	15.99	36.02	-20.03
2441	HDR4	iPA	38	8.50	7.079	8.32	6.792	11.42	13.871	30.00	-18.58	4.35	15.77	36.02	-20.25
2476	HDR4	iPA	73	8.48	7.047	8.15	6.531	11.33	13.578	30.00	-18.67	4.35	15.68	36.02	-20.35
2404	HDR8	ePA	1	17.13	51.642	16.68	46.559	19.92	98.200	30.00	-10.08	4.35	24.27	36.02	-11.75
2441	HDR8	ePA	38	16.57	45.394	16.02	39.994	19.31	85.389	30.00	-10.69	4.35	23.66	36.02	-12.36
2476	HDR8	ePA	73	16.87	48.641	16.20	41.687	19.56	90.328	30.00	-10.44	4.35	23.91	36.02	-12.12
2404	HDR8	iPA	1	8.50	7.079	8.07	6.412	11.30	13.492	30.00	-18.70	4.35	15.65	36.02	-20.37
2441	HDR8	iPA	38	8.35	6.839	8.19	6.592	11.28	13.431	30.00	-18.72	4.35	15.63	36.02	-20.39
2476	HDR8	iPA	73	8.90	7.762	8.03	6.353	11.50	14.116	30.00	-18.50	4.35	15.84	36.02	-20.18
2404	HDRP52	ePA	1	17.02	50.350	16.77	47.534	19.91	97.884	30.00	-10.09	4.35	24.25	36.02	-11.77
2441	HDRP52	ePA	38	17.02	50.350	16.66	46.345	19.85	96.695	30.00	-10.15	4.35	24.20	36.02	-11.82
2476	HDRP52	ePA	73	16.75	47.315	16.77	47.534	19.77	94.849	30.00	-10.23	4.35	24.12	36.02	-11.90
2404	HDRP52	iPA	1	9.08	8.091	8.31	6.776	11.72	14.867	30.00	-18.28	4.35	16.07	36.02	-19.95
2441	HDRP52	iPA	38	8.93	7.816	8.94	7.834	11.95	15.651	30.00	-18.05	4.35	16.29	36.02	-19.73
2476	HDRP52	iPA	73	9.55	9.016	8.52	7.112	12.08	16.128	30.00	-17.92	4.35	16.42	36.02	-19.60
2404	XHDRPM6	ePA	1	17.08	51.050	17.11	51.404	20.11	102.455	30.00	-9.89	4.35	24.45	36.02	-11.57
2441	XHDRPM6	ePA	38	17.09	51.168	16.56	45.290	19.84	96.458	30.00	-10.16	4.35	24.19	36.02	-11.83
2476	XHDRPM6	ePA	73	16.77	47.534	17.21	52.602	20.01	100.135	30.00	-9.99	4.35	24.35	36.02	-11.67
2404	XHDRPM6	iPA	1	9.22	8.356	9.00	7.943	12.12	16.299	30.00	-17.88	4.35	16.47	36.02	-19.55
2441	XHDRPM6	iPA	38	8.85	7.674	8.34	6.823	11.61	14.497	30.00	-18.39	4.35	15.96	36.02	-20.06
2476	XHDRPM6	iPA	73	9.51	8.933	8.91	7.780	12.23	16.713	30.00	-17.77	4.35	16.58	36.02	-19.44
2404	HDRPM16	ePA	1	17.38	54.702	16.55	45.186	20.00	99.887	30.00	-10.00	4.35	24.34	36.02	-11.68
2441	HDRPM16	ePA	38	17.39	54.828	16.43	43.954	19.95	98.782	30.00	-10.05	4.35	24.29	36.02	-11.73
2476	HDRPM16	ePA	73	17.16	52.000	16.53	44.978	19.87	96.978	30.00	-10.13	4.35	24.21	36.02	-11.81
2404	HDRPM16	iPA	1	7.99	6.295	7.62	5.781	10.82	12.076	30.00	-19.18	4.35	15.17	36.02	-20.85
2441	HDRPM16	iPA	38	8.17	6.561	7.22	5.272	10.73	11.834	30.00	-19.27	4.35	15.08	36.02	-20.94
2476	HDRPM16	iPA	73	8.06	6.397	7.73	5.929	10.91	12.327	30.00	-19.09	4.35	15.26	36.02	-20.77
2404	HDT2	ePA	1	17.28	53.456	16.79	47.753	20.05	101.209	30.00	-9.95	4.35	24.40	36.02	-11.62
2440	HDT2	ePA	37	17.39	54.828	16.73	47.098	20.08	101.925	30.00	-9.92	4.35	24.43	36.02	-11.59
2476	HDT2	ePA	73	17.19	52.360	16.85	48.417	20.03	100.777	30.00	-9.97	4.35	24.38	36.02	-11.64
2404	HDT2	iPA	1	8.80	7.586	8.48	7.047	11.65	14.633	30.00	-18.35	4.35	16.00	36.02	-20.02
2440	HDT2	iPA	37	9.15	8.222	8.64	7.311	11.91	15.534	30.00	-18.09	4.35	16.26	36.02	-19.76
2476	HDT2	iPA	73	9.01	7.962	8.67	7.362	11.85	15.324	30.00	-18.15	4.35	16.20	36.02	-19.82

Table 7-9. Peak Conducted Output Power Measurements TxBF Diversity (Bluetooth HDR)

FCC ID: BCGA3360 IC: 579C-A3360	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2504170040-07-R1.BCG	Test Dates: 05/12/2025 - 09/02/2025	EUT Type: Tablet Device	Page 51 of 305

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7.3.2 Average Output Power Measurement – Bluetooth (HDR)

Frequency [MHz]	Mode	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]	Target [dBm]
				[dBm]	[mW]							
2404	HDR4	ePA	1	14.22	26.430	30.00	-15.78	2.10	16.32	36.02	-19.70	14.50
2441	HDR4	ePA	38	14.29	26.835	30.00	-15.71	2.10	16.39	36.02	-19.63	14.50
2476	HDR4	ePA	73	14.02	25.217	30.00	-15.98	2.10	16.12	36.02	-19.90	14.50
2404	HDR4	iPA	1	6.11	4.086	30.00	-23.89	2.10	8.21	36.02	-27.81	6.50
2441	HDR4	iPA	38	6.05	4.024	30.00	-23.95	2.10	8.15	36.02	-27.87	6.50
2476	HDR4	iPA	73	6.48	4.445	30.00	-23.52	2.10	8.58	36.02	-27.44	6.50
2404	HDR8	ePA	1	14.19	26.260	30.00	-15.81	2.10	16.29	36.02	-19.73	14.50
2441	HDR8	ePA	38	14.24	26.571	30.00	-15.76	2.10	16.34	36.02	-19.68	14.50
2476	HDR8	ePA	73	13.98	25.021	30.00	-16.02	2.10	16.08	36.02	-19.94	14.50
2404	HDR8	iPA	1	6.48	4.446	30.00	-23.52	2.10	8.58	36.02	-27.44	6.50
2441	HDR8	iPA	38	5.87	3.860	30.00	-24.13	2.10	7.97	36.02	-28.05	6.50
2476	HDR8	iPA	73	6.08	4.052	30.00	-23.92	2.10	8.18	36.02	-27.84	6.50
2404	HDRPS2	ePA	1	14.16	26.080	30.00	-15.84	2.10	16.26	36.02	-19.76	14.50
2441	HDRPS2	ePA	38	14.28	26.767	30.00	-15.72	2.10	16.38	36.02	-19.64	14.50
2476	HDRPS2	ePA	73	14.04	25.345	30.00	-15.96	2.10	16.14	36.02	-19.88	14.50
2404	HDRPS2	iPA	1	6.04	4.020	30.00	-23.96	2.10	8.14	36.02	-27.88	6.50
2441	HDRPS2	iPA	38	6.27	4.237	30.00	-23.73	2.10	8.37	36.02	-27.65	6.50
2476	HDRPS2	iPA	73	6.32	4.285	30.00	-23.68	2.10	8.42	36.02	-27.60	6.50
2404	XHDRPM6	ePA	1	14.19	26.260	30.00	-15.81	2.10	16.29	36.02	-19.73	14.50
2441	XHDRPM6	ePA	38	14.20	26.327	30.00	-15.80	2.10	16.30	36.02	-19.72	14.50
2476	XHDRPM6	ePA	73	14.03	25.287	30.00	-15.97	2.10	16.13	36.02	-19.89	14.50
2404	XHDRPM6	iPA	1	6.34	4.302	30.00	-23.66	2.10	8.44	36.02	-27.58	6.50
2441	XHDRPM6	iPA	38	6.19	4.159	30.00	-23.81	2.10	8.29	36.02	-27.73	6.50
2476	XHDRPM6	iPA	73	6.28	4.248	30.00	-23.72	2.10	8.38	36.02	-27.64	6.50
2404	HDRPM16	ePA	1	12.40	17.362	30.00	-17.60	2.10	14.50	36.02	-21.52	12.50
2441	HDRPM16	ePA	38	12.50	17.762	30.00	-17.51	2.10	14.60	36.02	-21.43	12.50
2476	HDRPM16	ePA	73	12.33	17.084	30.00	-17.67	2.10	14.43	36.02	-21.59	12.50
2404	HDRPM16	iPA	1	3.21	2.095	30.00	-26.79	2.10	5.31	36.02	-30.71	3.50
2441	HDRPM16	iPA	38	3.01	1.998	30.00	-27.00	2.10	5.11	36.02	-30.92	3.50
2476	HDRPM16	iPA	73	3.42	2.196	30.00	-26.58	2.10	5.52	36.02	-30.50	3.50
2404	HDT2	ePA	1	14.26	26.638	30.00	-15.75	2.10	16.36	36.02	-19.67	14.50
2440	HDT2	ePA	37	14.40	27.523	30.00	-15.60	2.10	16.50	36.02	-19.52	14.50
2476	HDT2	ePA	73	14.23	26.455	30.00	-15.78	2.10	16.33	36.02	-19.70	14.50
2404	HDT2	iPA	1	6.06	4.036	30.00	-23.94	2.10	8.16	36.02	-27.86	6.50
2440	HDT2	iPA	37	6.37	4.330	30.00	-23.64	2.10	8.47	36.02	-27.56	6.50
2476	HDT2	iPA	73	6.28	4.242	30.00	-23.72	2.10	8.38	36.02	-27.64	6.50

Table 7-10. Average Conducted Output Power Measurements Antenna WF8 (Bluetooth HDR)

Frequency [MHz]	Mode	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]	Target [dBm]
				[dBm]	[mW]							
2404	HDR4	ePA	1	13.78	23.862	30.00	-16.22	1.90	15.68	36.02	-20.34	14.00
2441	HDR4	ePA	38	13.62	23.030	30.00	-16.38	1.90	15.52	36.02	-20.50	14.00
2476	HDR4	ePA	73	13.65	23.163	30.00	-16.35	1.90	15.55	36.02	-20.47	14.00
2404	HDR4	iPA	1	5.83	3.826	30.00	-24.17	1.90	7.73	36.02	-28.29	6.00
2441	HDR4	iPA	38	5.77	3.772	30.00	-24.23	1.90	7.67	36.02	-28.35	6.00
2476	HDR4	iPA	73	5.82	3.820	30.00	-24.18	1.90	7.72	36.02	-28.30	6.00
2404	HDR8	ePA	1	13.93	24.723	30.00	-16.07	1.90	15.83	36.02	-20.19	14.00
2441	HDR8	ePA	38	13.84	24.188	30.00	-16.16	1.90	15.74	36.02	-20.28	14.00
2476	HDR8	ePA	73	13.89	24.474	30.00	-16.11	1.90	15.79	36.02	-20.23	14.00
2404	HDR8	iPA	1	5.83	3.825	30.00	-24.17	1.90	7.73	36.02	-28.29	6.00
2441	HDR8	iPA	38	5.28	3.372	30.00	-24.72	1.90	7.18	36.02	-28.84	6.00
2476	HDR8	iPA	73	5.79	3.790	30.00	-24.21	1.90	7.69	36.02	-28.33	6.00
2404	HDRPS2	ePA	1	13.55	22.620	30.00	-16.46	1.90	15.45	36.02	-20.58	14.00
2441	HDRPS2	ePA	38	13.90	24.564	30.00	-16.10	1.90	15.80	36.02	-20.22	14.00
2476	HDRPS2	ePA	73	13.88	24.429	30.00	-16.12	1.90	15.78	36.02	-20.24	14.00
2404	HDRPS2	iPA	1	5.87	3.866	30.00	-24.13	1.90	7.77	36.02	-28.25	6.00
2441	HDRPS2	iPA	38	5.70	3.716	30.00	-24.30	1.90	7.60	36.02	-28.42	6.00
2476	HDRPS2	iPA	73	5.84	3.833	30.00	-24.17	1.90	7.74	36.02	-28.29	6.00
2404	XHDRPM6	ePA	1	13.57	22.740	30.00	-16.43	1.90	15.47	36.02	-20.55	14.00
2441	XHDRPM6	ePA	38	13.71	23.502	30.00	-16.29	1.90	15.61	36.02	-20.41	14.00
2476	XHDRPM6	ePA	73	13.75	23.708	30.00	-16.25	1.90	15.65	36.02	-20.37	14.00
2404	XHDRPM6	iPA	1	5.28	3.376	30.00	-24.72	1.90	7.18	36.02	-28.84	6.00
2441	XHDRPM6	iPA	38	6.00	3.979	30.00	-24.00	1.90	7.90	36.02	-28.12	6.00
2476	XHDRPM6	iPA	73	5.77	3.775	30.00	-24.23	1.90	7.67	36.02	-28.35	6.00
2404	HDRPM16	ePA	1	11.87	15.371	30.00	-18.13	1.90	13.77	36.02	-22.25	12.00
2441	HDRPM16	ePA	38	11.75	14.959	30.00	-18.25	1.90	13.65	36.02	-22.37	12.00
2476	HDRPM16	ePA	73	11.34	13.602	30.00	-18.66	1.90	13.24	36.02	-22.78	12.00
2404	HDRPM16	iPA	1	2.63	1.833	30.00	-27.37	1.90	4.53	36.02	-31.49	3.00
2441	HDRPM16	iPA	38	2.76	1.889	30.00	-27.24	1.90	4.66	36.02	-31.36	3.00
2476	HDRPM16	iPA	73	2.85	1.928	30.00	-27.15	1.90	4.75	36.02	-31.27	3.00
2404	HDT2	ePA	1	14.00	25.119	30.00	-16.00	1.90	15.90	36.02	-20.12	14.00
2440	HDT2	ePA	37	13.95	24.803	30.00	-16.06	1.90	15.85	36.02	-20.18	14.00
2476	HDT2	ePA	73	13.97	24.946	30.00	-16.03	1.90	15.87	36.02	-20.15	14.00
2404	HDT2	iPA	1	5.69	3.709	30.00	-24.31	1.90	7.59	36.02	-28.43	6.00
2440	HDT2	iPA	37	5.80	3.805	30.00	-24.20	1.90	7.70	36.02	-28.32	6.00
2476	HDT2	iPA	73	5.92	3.910	30.00	-24.08	1.90	7.82	36.02	-28.20	6.00

Table 7-11. Average Conducted Output Power Measurements Antenna WF7 (Bluetooth HDR)

FCC ID: BCGA3360 IC: 579C-A3360	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2504170040-07-R1.BCG	Test Dates: 05/12/2025 - 09/02/2025	EUT Type: Tablet Device	Page 52 of 305

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Frequency [MHz]	Mode	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]	Target [dBm]
				[dBm]	[mW]							
2404	HDR4	ePA	1	13.57	22.735	30.00	-16.43	0.50	14.07	36.02	-21.95	14.00
2441	HDR4	ePA	38	13.46	22.192	30.00	-16.54	0.50	13.96	36.02	-22.06	14.00
2476	HDR4	ePA	73	13.54	22.594	30.00	-16.46	0.50	14.04	36.02	-21.98	14.00
2404	HDR4	iPA	1	5.77	3.777	30.00	-24.23	0.50	6.27	36.02	-29.75	6.00
2441	HDR4	iPA	38	5.98	3.964	30.00	-24.02	0.50	6.48	36.02	-29.54	6.00
2476	HDR4	iPA	73	5.79	3.789	30.00	-24.22	0.50	6.29	36.02	-29.74	6.00
2404	HDR8	ePA	1	13.72	23.545	30.00	-16.28	0.50	14.22	36.02	-21.80	14.00
2441	HDR8	ePA	38	13.64	23.121	30.00	-16.36	0.50	14.14	36.02	-21.88	14.00
2476	HDR8	ePA	73	13.78	23.873	30.00	-16.22	0.50	14.28	36.02	-21.74	14.00
2404	HDR8	iPA	1	5.21	3.317	30.00	-24.79	0.50	5.71	36.02	-30.31	6.00
2441	HDR8	iPA	38	5.39	3.460	30.00	-24.61	0.50	5.89	36.02	-30.13	6.00
2476	HDR8	iPA	73	5.75	3.760	30.00	-24.25	0.50	6.25	36.02	-29.77	6.00
2404	HDRPS2	ePA	1	13.86	24.322	30.00	-16.14	0.50	14.36	36.02	-21.66	14.00
2441	HDRPS2	ePA	38	13.74	23.643	30.00	-16.26	0.50	14.24	36.02	-21.78	14.00
2476	HDRPS2	ePA	73	13.67	23.292	30.00	-16.33	0.50	14.17	36.02	-21.85	14.00
2404	HDRPS2	iPA	1	5.70	3.716	30.00	-24.30	0.50	6.20	36.02	-29.82	6.00
2441	HDRPS2	iPA	38	5.83	3.826	30.00	-24.17	0.50	6.33	36.02	-29.69	6.00
2476	HDRPS2	iPA	73	5.80	3.800	30.00	-24.20	0.50	6.30	36.02	-29.72	6.00
2404	XHDRPM6	ePA	1	13.97	24.969	30.00	-16.03	0.50	14.47	36.02	-21.55	14.00
2441	XHDRPM6	ePA	38	13.53	22.542	30.00	-16.47	0.50	14.03	36.02	-21.99	14.00
2476	XHDRPM6	ePA	73	13.99	25.084	30.00	-16.01	0.50	14.49	36.02	-21.53	14.00
2404	XHDRPM6	iPA	1	5.98	3.964	30.00	-24.02	0.50	6.48	36.02	-29.54	6.00
2441	XHDRPM6	iPA	38	5.71	3.720	30.00	-24.29	0.50	6.21	36.02	-29.81	6.00
2476	XHDRPM6	iPA	73	5.72	3.732	30.00	-24.28	0.50	6.22	36.02	-29.80	6.00
2404	HDRPM16	ePA	1	11.78	15.056	30.00	-18.22	0.50	12.28	36.02	-23.74	12.00
2441	HDRPM16	ePA	38	11.56	14.328	30.00	-18.44	0.50	12.06	36.02	-23.96	12.00
2476	HDRPM16	ePA	73	11.76	15.011	30.00	-18.24	0.50	12.26	36.02	-23.76	12.00
2404	HDRPM16	iPA	1	2.55	1.799	30.00	-27.45	0.50	3.05	36.02	-32.97	3.00
2441	HDRPM16	iPA	38	2.54	1.793	30.00	-27.46	0.50	3.04	36.02	-32.98	3.00
2476	HDRPM16	iPA	73	2.53	1.789	30.00	-27.47	0.50	3.03	36.02	-32.99	3.00
2404	HD72	ePA	1	13.88	24.423	30.00	-16.12	0.50	14.38	36.02	-21.64	14.00
2440	HD72	ePA	37	13.81	24.066	30.00	-16.19	0.50	14.31	36.02	-21.71	14.00
2476	HD72	ePA	73	13.95	24.814	30.00	-16.05	0.50	14.45	36.02	-21.57	14.00
2404	HD72	iPA	1	5.86	3.858	30.00	-24.14	0.50	6.36	36.02	-29.66	6.00
2440	HD72	iPA	37	5.91	3.898	30.00	-24.09	0.50	6.41	36.02	-29.61	6.00
2476	HD72	iPA	73	5.90	3.891	30.00	-24.10	0.50	6.40	36.02	-29.62	6.00

Table 7-12. Average Conducted Output Power Measurements Antenna WF9 (Bluetooth HDR)

Frequency [MHz]	Mode	Power Scheme	Channel No.	Average Conducted Power						Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	ERP [dBm]	ERP Limit [dBm]	ERP Margin [dB]
				Antenna WF8		Antenna WF7		Summed							
				[dBm]	[mW]	[dBm]	[mW]	[dBm]	[mW]						
2404	HDR4	ePA	1	14.31	26.977	13.68	23.335	17.02	50.312	30.00	-12.98	5.01	22.03	36.02	-13.99
2441	HDR4	ePA	38	14.13	25.882	14.00	25.119	17.08	51.001	30.00	-12.92	5.01	22.09	36.02	-13.93
2476	HDR4	ePA	73	14.46	27.925	13.70	23.442	17.11	51.368	30.00	-12.89	5.01	22.12	36.02	-13.90
2404	HDR4	iPA	1	6.30	4.266	5.73	3.741	9.03	8.007	30.00	-20.97	5.01	14.05	36.02	-21.98
2441	HDR4	iPA	38	5.58	3.614	5.48	3.532	8.54	7.146	30.00	-21.46	5.01	13.55	36.02	-22.47
2476	HDR4	iPA	73	6.13	4.102	5.95	3.936	9.05	8.038	30.00	-20.95	5.01	14.06	36.02	-21.96
2404	HDR8	ePA	1	14.03	25.293	13.82	24.099	16.94	49.392	30.00	-13.06	5.01	21.95	36.02	-14.07
2441	HDR8	ePA	38	14.08	25.586	13.91	24.604	17.01	50.190	30.00	-12.99	5.01	22.02	36.02	-14.00
2476	HDR8	ePA	73	14.40	27.542	13.18	20.797	16.84	48.339	30.00	-13.16	5.01	21.85	36.02	-14.17
2404	HDR8	iPA	1	6.20	4.169	5.72	3.733	8.98	7.901	30.00	-21.02	5.01	13.99	36.02	-22.03
2441	HDR8	iPA	38	6.01	3.990	5.64	3.664	8.84	7.655	30.00	-21.16	5.01	13.85	36.02	-22.17
2476	HDR8	iPA	73	6.22	4.188	5.71	3.724	8.98	7.912	30.00	-21.02	5.01	13.99	36.02	-22.03
2404	HDRPS2	ePA	1	14.16	26.062	13.87	24.378	17.03	50.440	30.00	-12.97	5.01	22.04	36.02	-13.98
2441	HDRPS2	ePA	38	14.22	26.424	13.87	24.378	17.06	50.802	30.00	-12.94	5.01	22.07	36.02	-13.95
2476	HDRPS2	ePA	73	13.96	24.889	13.86	24.322	16.92	49.211	30.00	-13.08	5.01	21.93	36.02	-14.09
2404	HDRPS2	iPA	1	6.42	4.385	5.82	3.819	9.14	8.205	30.00	-20.86	5.01	14.15	36.02	-21.87
2441	HDRPS2	iPA	38	5.63	3.656	5.15	3.273	8.41	6.929	30.00	-21.59	5.01	13.42	36.02	-22.60
2476	HDRPS2	iPA	73	6.49	4.457	5.28	3.373	8.94	7.829	30.00	-21.06	5.01	13.95	36.02	-22.07
2404	XHDRPM6	ePA	1	14.50	28.184	13.53	22.542	17.05	50.726	30.00	-12.95	5.01	22.06	36.02	-13.96
2441	XHDRPM6	ePA	38	13.68	23.335	13.69	23.388	16.70	46.723	30.00	-13.30	5.01	21.71	36.02	-14.31
2476	XHDRPM6	ePA	73	13.63	23.067	13.97	24.946	16.81	48.013	30.00	-13.19	5.01	21.82	36.02	-14.20
2404	XHDRPM6	iPA	1	5.97	3.954	5.31	3.396	8.66	7.350	30.00	-21.34	5.01	13.67	36.02	-22.35
2441	XHDRPM6	iPA	38	5.61	3.639	5.13	3.258	8.39	6.898	30.00	-21.61	5.01	13.40	36.02	-22.62
2476	XHDRPM6	iPA	73	6.24	4.207	5.70	3.715	8.99	7.923	30.00	-21.01	5.01	14.00	36.02	-22.02
2404	HDRPM16	ePA	1	12.45	17.579	11.84	15.276	15.17	32.855	30.00	-14.83	5.01	20.18	36.02	-15.84
2441	HDRPM16	ePA	38	12.47	17.660	11.33	13.583	14.95	31.244	30.00	-15.05	5.01	19.96	36.02	-16.06
2476	HDRPM16	ePA	73	12.29	16.943	11.31	13.521	14.84	30.464	30.00	-15.16	5.01	19.85	36.02	-16.17
2404	HDRPM16	iPA	1	3.32	2.148	2.57	1.807	5.97	3.955	30.00	-24.03	5.01	10.98	36.02	-25.04
2441	HDRPM16	iPA	38	3.48	2.228	2.95	1.972	6.23	4.201	30.00	-23.77	5.01	11.24	36.02	-24.78
2476	HDRPM16	iPA	73	3.37	2.173	2.69	1.858	6.05	4.031	30.00	-23.95	5.01	11.06	36.02	-24.96
2404	HD72	ePA	1	14.19	26.242	13.43	22.029	16.84	48.271	30.00	-13.16	5.01	21.85	36.02	-14.17
2440	HD72	ePA	37	14.33	27.102	13.91	24.604	17.14	51.706	30.00	-12.86	5.01	22.15	36.02	-13.87
2476	HD72	ePA	73	14.13	25.882	13.93	24.717	17.04	50.599	30.00	-12.96	5.01	22.05	36.02	-13.97
2404	HD72	iPA	1	5.92	3.908	5.63	3.656	8.79	7.564	30.00	-21.21	5.01	13.80	36.02	-22.22
2440	HD72	iPA	37	6.32	4.285	5.77	3.776	9.06	8.061	30.00	-20.94	5.01	14.07	36.02	-21.95
2476	HD72	iPA	73	6.14	4.111	5.89	3.882	9.03	7.993	30.00	-20.97	5.01	14.04	36.02	-21.98

Table 7-13. Average Conducted Output Power Measurements TxBF Primary (Bluetooth HDR)

FCC ID: BCGA3360 IC: 579C-A3360	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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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 WF8		Antenna WF9		Summed							
				[dBm]	[mW]	[dBm]	[mW]	[dBm]	[mW]						
2404	HDR4	ePA	1	14.31	26.977	13.38	21.777	16.88	48.754	30.00	-13.12	4.35	21.23	36.02	-14.79
2441	HDR4	ePA	38	14.13	25.882	13.88	24.434	17.02	50.316	30.00	-12.98	4.35	21.36	36.02	-14.66
2476	HDR4	ePA	73	14.46	27.925	13.39	21.827	16.97	49.753	30.00	-13.03	4.35	21.32	36.02	-14.71
2404	HDR4	iPA	1	6.30	4.266	5.43	3.491	8.90	7.757	30.00	-21.10	4.35	13.24	36.02	-22.78
2441	HDR4	iPA	38	5.58	3.614	5.20	3.311	8.40	6.925	30.00	-21.60	4.35	12.75	36.02	-23.27
2476	HDR4	iPA	73	6.13	4.102	5.64	3.664	8.90	7.766	30.00	-21.10	4.35	13.25	36.02	-22.77
2404	HDR8	ePA	1	14.03	25.293	13.07	20.277	16.59	45.570	30.00	-13.41	4.35	20.93	36.02	-15.09
2441	HDR8	ePA	38	14.08	25.586	13.50	22.387	16.81	47.973	30.00	-13.19	4.35	21.16	36.02	-14.86
2476	HDR8	ePA	73	14.40	27.542	13.70	23.442	17.07	50.985	30.00	-12.93	4.35	21.42	36.02	-14.60
2404	HDR8	iPA	1	6.20	4.169	5.66	3.681	8.95	7.850	30.00	-21.05	4.35	13.30	36.02	-22.72
2441	HDR8	iPA	38	6.01	3.990	5.85	3.846	8.94	7.836	30.00	-21.06	4.35	13.29	36.02	-22.73
2476	HDR8	iPA	73	6.22	4.188	5.67	3.690	8.96	7.878	30.00	-21.04	4.35	13.31	36.02	-22.71
2404	HDRP52	ePA	1	14.16	26.062	13.80	23.988	16.99	50.050	30.00	-13.01	4.35	21.34	36.02	-14.68
2441	HDRP52	ePA	38	14.22	26.424	13.73	23.605	16.99	50.029	30.00	-13.01	4.35	21.34	36.02	-14.68
2476	HDRP52	ePA	73	13.96	24.889	13.88	24.434	16.93	49.323	30.00	-13.07	4.35	21.28	36.02	-14.74
2404	HDRP52	iPA	1	6.42	4.385	5.75	3.758	9.11	8.144	30.00	-20.89	4.35	13.46	36.02	-22.57
2441	HDRP52	iPA	38	5.63	3.656	5.93	3.917	8.79	7.573	30.00	-21.21	4.35	13.14	36.02	-22.88
2476	HDRP52	iPA	73	6.49	4.457	5.74	3.750	9.14	8.206	30.00	-20.86	4.35	13.49	36.02	-22.53
2404	XHDRPM6	ePA	1	14.50	28.184	13.62	23.014	17.09	51.198	30.00	-12.91	4.35	21.44	36.02	-14.58
2441	XHDRPM6	ePA	38	13.68	23.335	13.65	23.174	16.68	46.509	30.00	-13.32	4.35	21.02	36.02	-15.00
2476	XHDRPM6	ePA	73	13.63	23.067	13.75	23.714	16.70	46.781	30.00	-13.30	4.35	21.05	36.02	-14.97
2404	XHDRPM6	iPA	1	5.97	3.954	5.90	3.890	8.95	7.844	30.00	-21.05	4.35	13.29	36.02	-22.73
2441	XHDRPM6	iPA	38	5.61	3.639	5.13	3.258	8.39	6.898	30.00	-21.61	4.35	12.73	36.02	-23.29
2476	XHDRPM6	iPA	73	6.24	4.207	5.64	3.664	8.96	7.872	30.00	-21.04	4.35	13.31	36.02	-22.71
2404	HDRPM16	ePA	1	12.45	17.579	11.74	14.928	15.12	32.507	30.00	-14.88	4.35	19.47	36.02	-16.55
2441	HDRPM16	ePA	38	12.47	17.660	11.38	13.740	14.97	31.401	30.00	-15.03	4.35	19.32	36.02	-16.70
2476	HDRPM16	ePA	73	12.29	16.943	11.75	14.962	15.04	31.506	30.00	-14.96	4.35	19.39	36.02	-16.63
2404	HDRPM16	iPA	1	3.32	2.148	2.59	1.816	5.98	3.963	30.00	-24.02	4.35	10.33	36.02	-25.69
2441	HDRPM16	iPA	38	3.48	2.228	2.11	1.626	5.86	3.854	30.00	-24.14	4.35	10.21	36.02	-25.81
2476	HDRPM16	iPA	73	3.37	2.173	2.99	1.991	6.19	4.163	30.00	-23.81	4.35	10.54	36.02	-25.48
2404	HDT2	ePA	1	14.19	26.242	13.82	24.099	17.02	50.341	30.00	-12.98	4.35	21.37	36.02	-14.65
2440	HDT2	ePA	37	14.33	27.102	13.75	23.714	17.06	50.816	30.00	-12.94	4.35	21.41	36.02	-14.61
2476	HDT2	ePA	73	14.13	25.882	13.89	24.491	17.02	50.373	30.00	-12.98	4.35	21.37	36.02	-14.65
2404	HDT2	iPA	1	5.92	3.908	5.78	3.784	8.86	7.693	30.00	-21.14	4.35	13.21	36.02	-22.81
2440	HDT2	iPA	37	6.32	4.285	5.84	3.837	9.10	8.123	30.00	-20.90	4.35	13.44	36.02	-22.58
2476	HDT2	iPA	73	6.14	4.111	5.82	3.819	8.99	7.931	30.00	-21.01	4.35	13.34	36.02	-22.68

Table 7-14. Average Conducted Output Power Measurements TxBF Diversity (Bluetooth HDR)

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Note:

Per ANSI C63.10-2020 and KDB 662911 D01 v02r01 Section E)1), the conducted powers at Antenna WF8 and Antenna WF7 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 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 14.31 dBm for Antenna WF8 and 13.68 dBm for Antenna WF7.

Antenna WF8 + Antenna WF7 = TxBF Primary

$$(14.31 \text{ dBm} + 13.68 \text{ dBm}) = (26.977 \text{ mW} + 23.335 \text{ mW}) = 50.312 \text{ mW} = 17.02 \text{ dBm}$$

Sample e.i.r.p. Calculation:

At 2404MHz, the average conducted output power was calculated to be 17.02 dBm with antenna gain of 5.01 dBi.

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

$$17.02 \text{ dBm} + 5.01 \text{ dBi} = 22.03 \text{ dBm}$$

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7.4 Power Spectral Density

§15.247(e); RSS-247 [5.2]

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 – 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 – 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 7-3. Test Instrument & Measurement Setup

Test Notes

None

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7.4.1 Antenna WF8

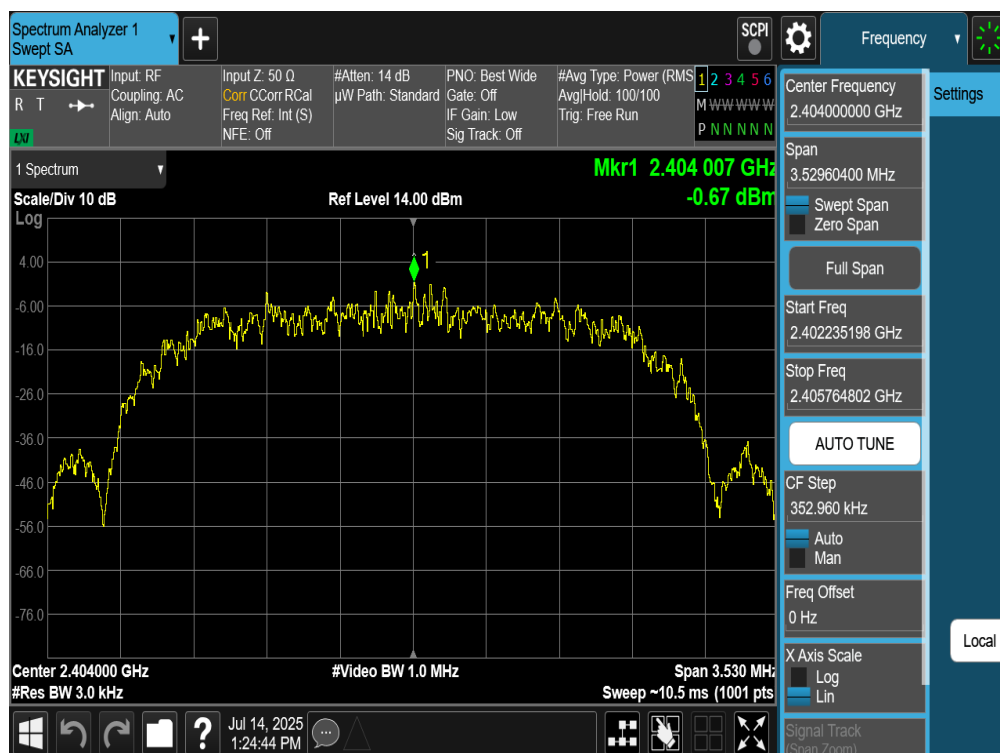
Frequency [MHz]	Mode	Power Scheme	Channel No.	Measured Power Density [dBm/3kHz]	Max Power Density [dBm/3kHz]	Margin [dB]
2404	HDR4	ePA	1	-0.67	8.0	-8.67
2441	HDR4	ePA	38	-0.78	8.0	-8.78
2476	HDR4	ePA	73	-0.87	8.0	-8.87
2404	HDR4	iPA	1	-8.09	8.0	-16.09
2441	HDR4	iPA	38	-8.88	8.0	-16.88
2476	HDR4	iPA	73	-7.74	8.0	-15.74
2404	HDR8	ePA	1	-2.42	8.0	-10.42
2441	HDR8	ePA	38	-2.39	8.0	-10.39
2476	HDR8	ePA	73	-2.57	8.0	-10.57
2404	HDR8	iPA	1	-9.85	8.0	-17.85
2441	HDR8	iPA	38	-9.50	8.0	-17.50
2476	HDR8	iPA	73	-9.69	8.0	-17.69
2404	HDRPS2	ePA	1	-2.10	8.0	-10.10
2441	HDRPS2	ePA	38	-1.97	8.0	-9.97
2476	HDRPS2	ePA	73	-2.55	8.0	-10.55
2404	HDRPS2	iPA	1	-10.94	8.0	-18.94
2441	HDRPS2	iPA	38	-10.39	8.0	-18.39
2476	HDRPS2	iPA	73	-10.24	8.0	-18.24
2404	XHDRPM6	ePA	1	-6.00	8.0	-14.00
2441	XHDRPM6	ePA	38	-6.17	8.0	-14.17
2476	XHDRPM6	ePA	73	-6.13	8.0	-14.13
2404	XHDRPM6	iPA	1	-14.58	8.0	-22.58
2441	XHDRPM6	iPA	38	-14.43	8.0	-22.43
2476	XHDRPM6	iPA	73	-14.84	8.0	-22.84
2404	HDRPM16	ePA	1	-6.30	8.0	-14.30
2441	HDRPM16	ePA	38	-6.67	8.0	-14.67
2476	HDRPM16	ePA	73	-5.92	8.0	-13.92
2404	HDRPM16	iPA	1	-16.50	8.0	-24.50
2441	HDRPM16	iPA	38	-16.35	8.0	-24.35
2476	HDRPM16	iPA	73	-15.43	8.0	-23.43
2404	HDT2	ePA	1	-4.19	8.0	-12.19
2440	HDT2	ePA	37	-4.43	8.0	-12.43
2476	HDT2	ePA	73	-4.09	8.0	-12.09
2404	HDT2	iPA	1	-13.24	8.0	-21.24
2440	HDT2	iPA	37	-12.53	8.0	-20.53
2476	HDT2	iPA	73	-12.36	8.0	-20.36

Table 7-15. Conducted Power Density Measurements Antenna WF8

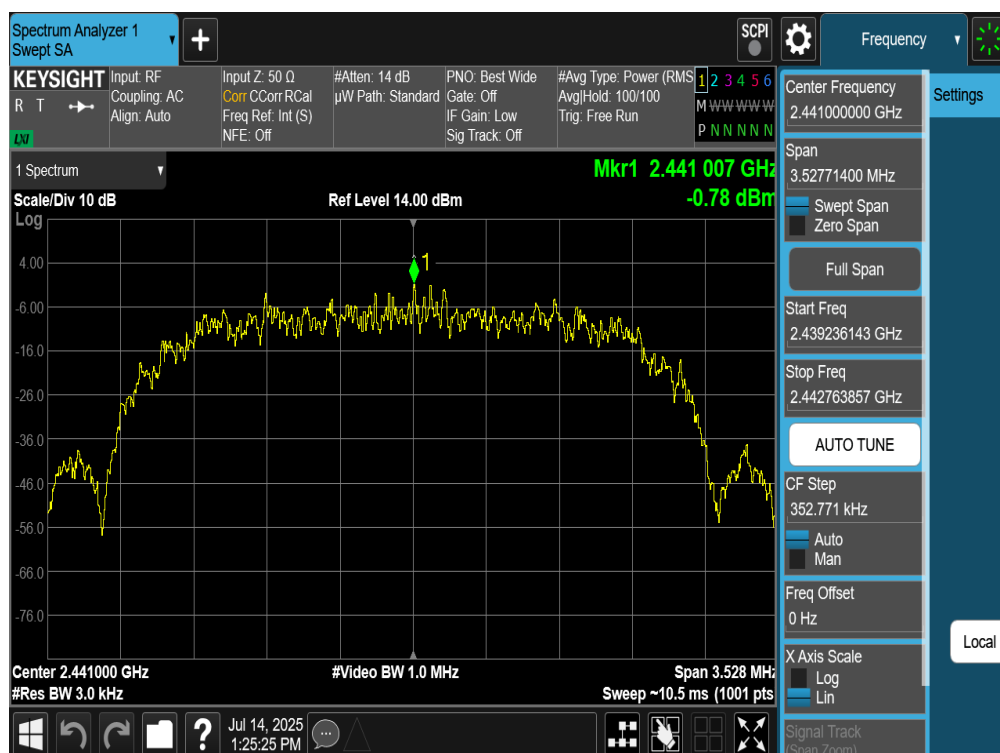
FCC ID: BCGA3360 IC: 579C-A3360		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170040-07-R1.BCG	Test Dates: 05/12/2025 - 09/02/2025	EUT Type: Tablet Device	Page 57 of 305

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Plot 7-55. Power Spectral Density Plot Antenna WF8 (Bluetooth (HDR4), 4Mbps, ePA – Ch. 1)



Plot 7-56. Power Spectral Density Plot Antenna WF8 (Bluetooth (HDR4), 4Mbps, ePA – Ch. 38)

FCC ID: BCGA3360 IC: 579C-A3360		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170040-07-R1.BCG	Test Dates: 05/12/2025 - 09/02/2025	EUT Type: Tablet Device	Page 58 of 305

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