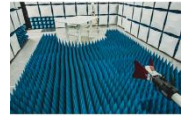




ELEMENT MATERIALS TECHNOLOGY

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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:

05/12/2025 - 09/02/2025

Test Report Issue Date:

9/2/2025

Test Site/Location:

Element Materials Technology, Morgan Hill, CA, USA

Test Report Serial No.:

1C2504170038-07-R2.BCG

FCC ID:

BCGA3357

IC:

579C-A3357

APPLICANT:

Apple Inc.

Application Type:

Certification

Model/HVIN:

A3357

EUT Type:

Tablet Device

Max. RF Output Power:

103.514 mW (20.15 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: 1C2504170038-07-R2.BCG) supersedes and replaces the previously issued test report on the same subject device for the same type of testing as indicated. Please discard or destroy the previously issued test report(s) and dispose accordingly.

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

RJ Ortanez
Executive Vice President



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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: BCGA3357, IC: 579C-A3357**. 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.: G4574YVFP6, QTV7QG9FTQ, H9HHG5000JS0000SDF, H9HHG5000M80000SDF

2.2 Device Capabilities

This device contains the following capabilities:

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

This device supports BT Beamforming.

This device supports channel puncturing and channel bandwidth reduction.

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. 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	77.809	1.090	77.949	1.082	77.500	1.107	77.500	1.107	77.547	1.104
	iPA	77.809	1.090	77.949	1.082	77.500	1.107	77.500	1.107	77.547	1.104
HDR8	ePA	96.716	0.145	77.917	1.084	77.755	1.093	77.755	1.093	96.131	0.171
	iPA	96.716	0.145	77.917	1.084	77.755	1.093	77.755	1.093	96.131	0.171
HDRPS2	ePA	91.982	0.363	91.778	0.373	92.000	0.362	92.000	0.362	91.778	0.373
	iPA	91.982	0.363	91.778	0.373	92.000	0.362	92.000	0.362	91.778	0.373
XHDRPS2	ePA	98.321	0.074	98.325	0.073	98.880	0.049	98.325	0.073	98.801	0.052
	iPA	98.321	0.074	98.325	0.073	98.880	0.049	98.325	0.073	98.801	0.052
XHDRPM6	ePA	86.085	0.651	86.085	0.651	86.767	0.616	86.085	0.651	86.392	0.635
	iPA	86.085	0.651	86.085	0.651	86.767	0.616	86.085	0.651	86.392	0.635
XHDRPM8	ePA	92.042	0.360	91.849	0.369	91.849	0.369	92.053	0.360	92.247	0.350
	iPA	92.042	0.360	91.849	0.369	91.849	0.369	92.053	0.360	92.247	0.350
HDRPM16	ePA	89.607	0.477	89.749	0.470	89.792	0.468	89.605	0.477	89.326	0.490
	iPA	89.607	0.477	89.749	0.470	89.792	0.468	89.605	0.477	89.326	0.490
XHDRPM16	ePA	87.318	0.589	87.781	0.566	87.318	0.589	87.616	0.574	89.326	0.579
	iPA	87.318	0.589	87.781	0.566	87.318	0.589	87.616	0.574	89.326	0.579
HDT2	ePA	96.320	0.163	96.320	0.163	96.420	0.158	96.326	0.163	96.326	0.163
	iPA	96.320	0.163	96.320	0.163	96.420	0.158	96.326	0.163	96.326	0.163
HDT8	ePA	90.600	0.429	90.612	0.428	90.581	0.430	90.220	0.447	90.366	0.440
	iPA	90.600	0.429	90.612	0.428	90.581	0.430	90.220	0.447	90.366	0.440

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	3.8	2.3	1.1

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 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 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, 50 Ω /50 μ H 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	4/24/2025	Annual	4/24/2026	101364
Schwarzbeck	VULB 9162	Bilog Antenna (30MHz - 6GHz)	9/18/2024	Annual	9/18/2025	00358

Table 6-1. Test Equipment List

Note:

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

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7.0 TEST RESULTS

7.1 Summary

Company Name: Apple Inc.
 FCC ID: BCGA3357
 IC: 579C-A3357
 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 [5.2]	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 [5.4(d)]	Transmitter Output Power	< 1 Watt		PASS	Sections 7.3
15.247(e)	RSS-247 [5.2]	Transmitter Power Spectral Density	< 8dBm / 3kHz Band		PASS	Section 7.4
15.247(d)	RSS-247 [5.5]	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:

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 1.4.0.
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 3.4.2.

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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

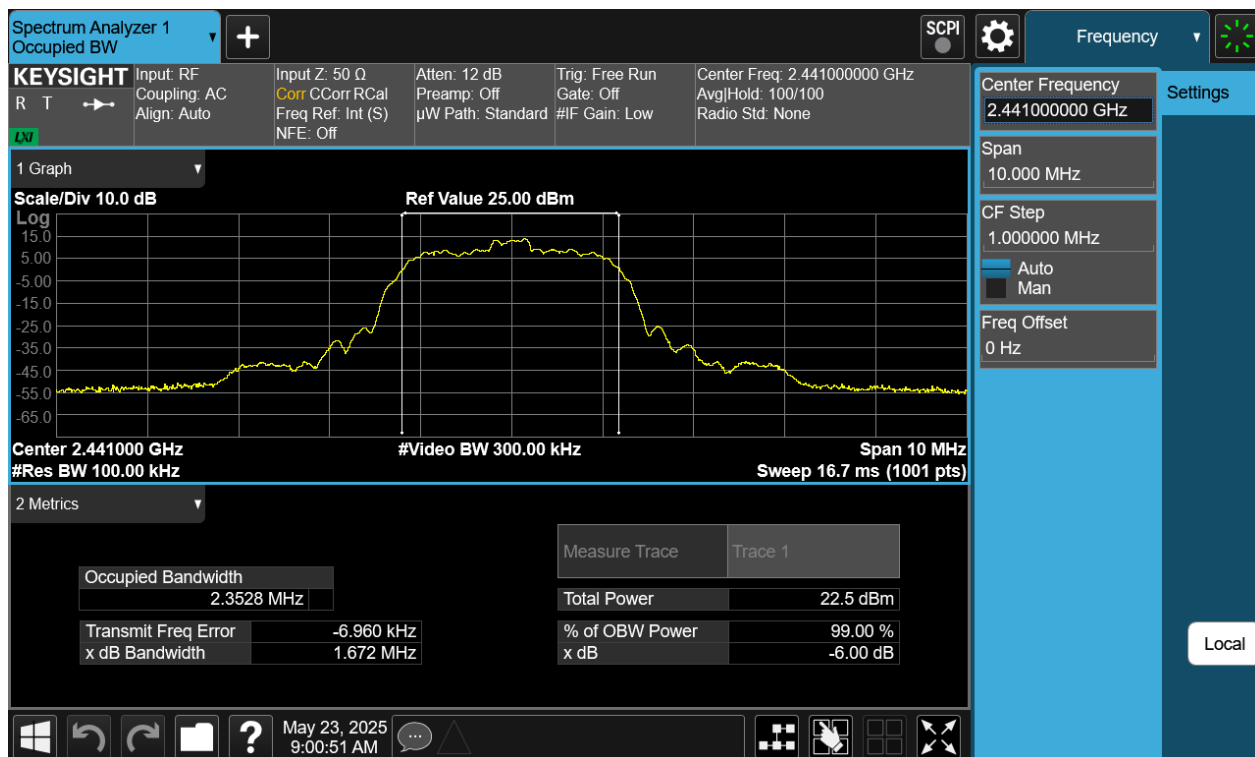
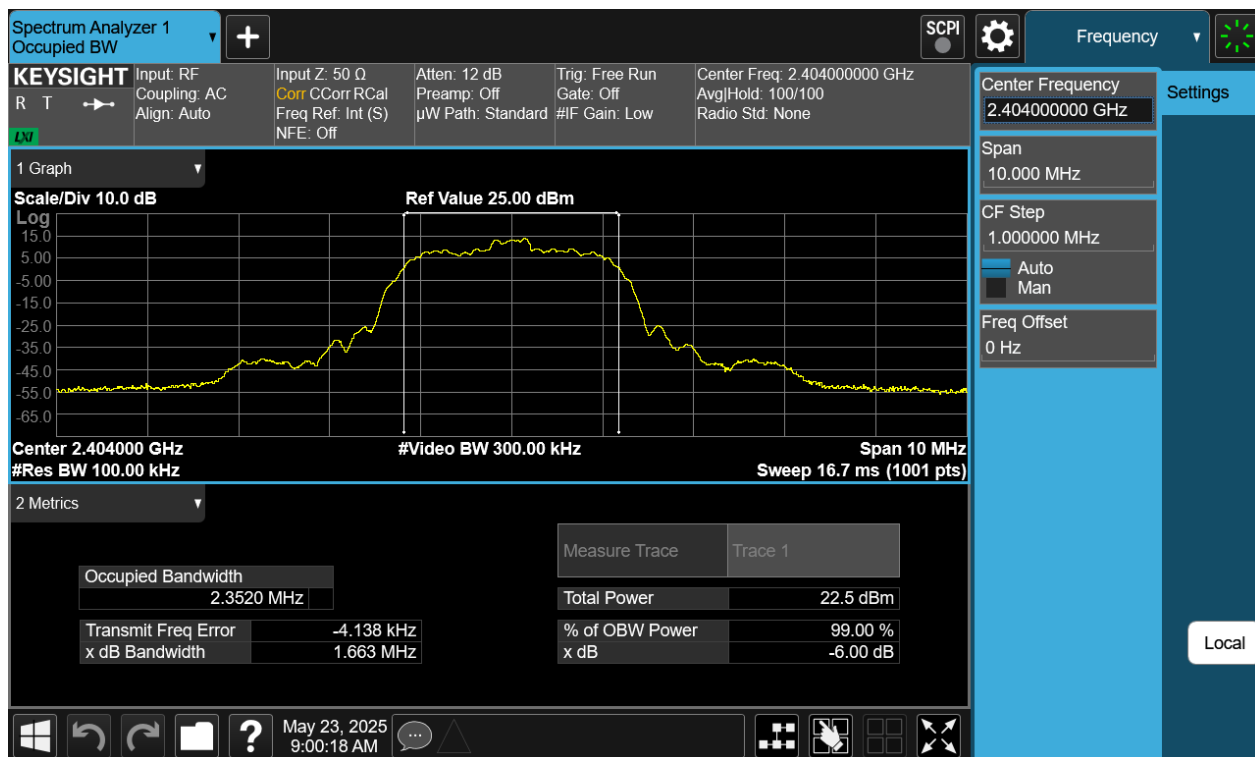
Frequency [MHz]	Mode	Power Scheme	Channel	Measured 99% Occupied Bandwidth [MHz]	Measured 6dB Bandwidth [MHz]	Minimum 6dB Bandwidth [MHz]	Pass/Fail
2404	HDR4	ePA	1	2.352	1.663	0.50	Pass
2441	HDR4	ePA	38	2.353	1.672	0.50	Pass
2476	HDR4	ePA	73	2.353	1.674	0.50	Pass
2404	HDR8	ePA	1	4.641	0.882	0.50	Pass
2441	HDR8	ePA	38	4.645	0.564	0.50	Pass
2476	HDR8	ePA	73	4.648	0.877	0.50	Pass
2404	HDRPS2	ePA	1	2.376	2.089	0.50	Pass
2441	HDRPS2	ePA	38	2.378	2.096	0.50	Pass
2476	HDRPS2	ePA	73	2.375	2.083	0.50	Pass
2404	XHDRPM6	ePA	1	4.706	4.064	0.50	Pass
2441	XHDRPM6	ePA	38	4.718	4.062	0.50	Pass
2476	XHDRPM6	ePA	73	4.725	4.074	0.50	Pass
2404	HDRPM16	ePA	1	4.682	2.542	0.50	Pass
2441	HDRPM16	ePA	38	4.689	2.567	0.50	Pass
2476	HDRPM16	ePA	73	4.690	2.554	0.50	Pass
2404	HDT2	ePA	1	2.390	2.083	0.50	Pass
2440	HDT2	ePA	37	2.395	2.121	0.50	Pass
2476	HDT2	ePA	73	2.390	2.083	0.50	Pass

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

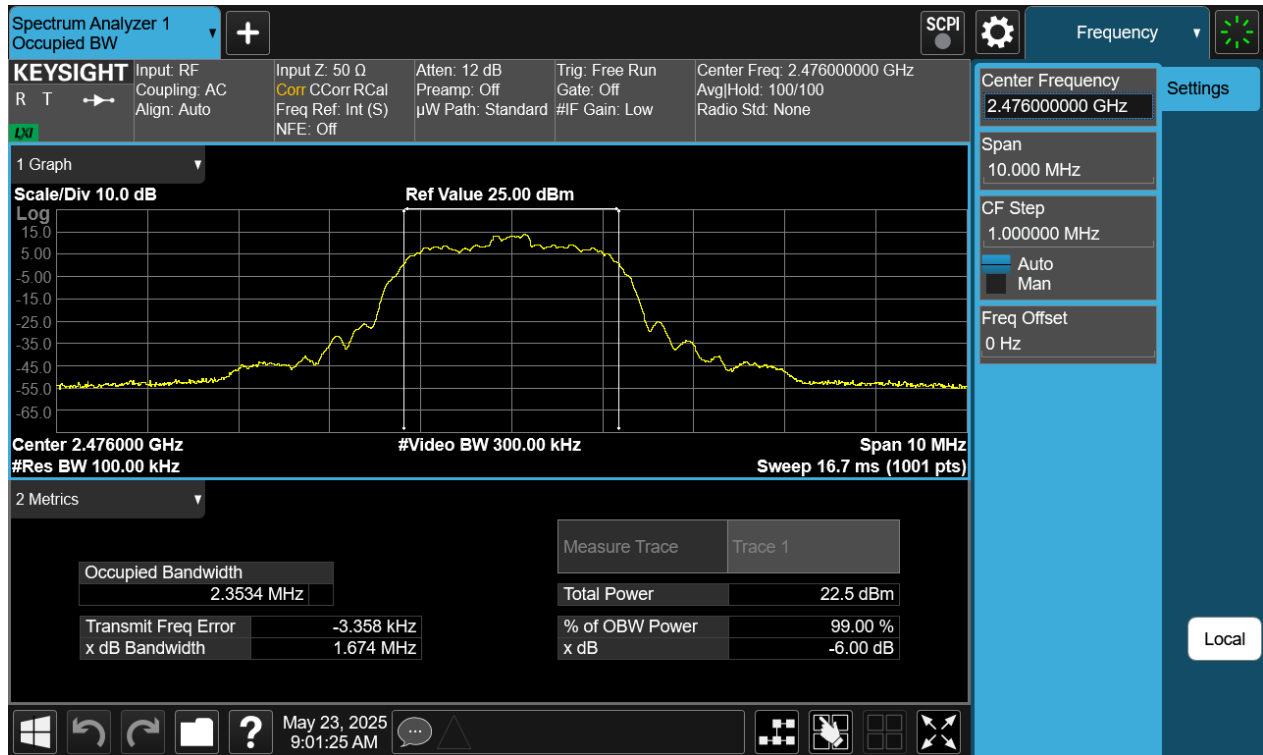
FCC ID: BCGA3357 IC: 579C-A3357		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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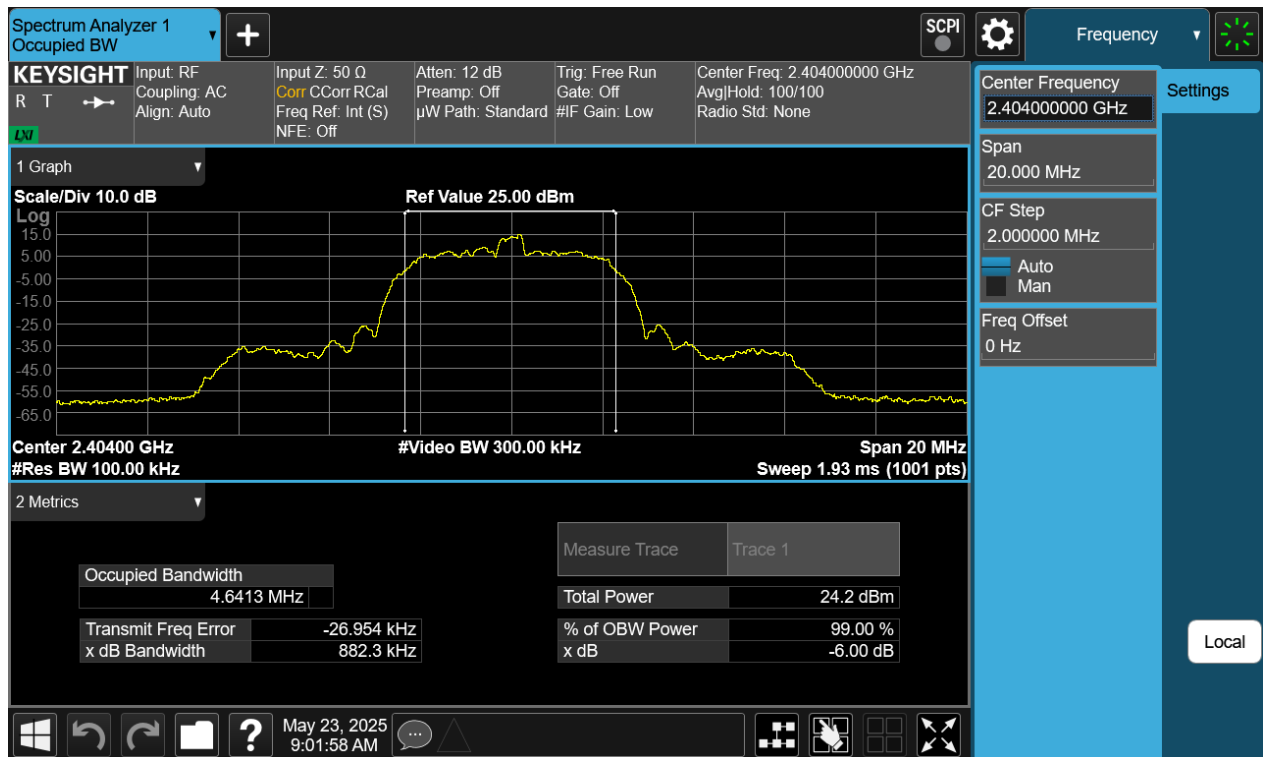
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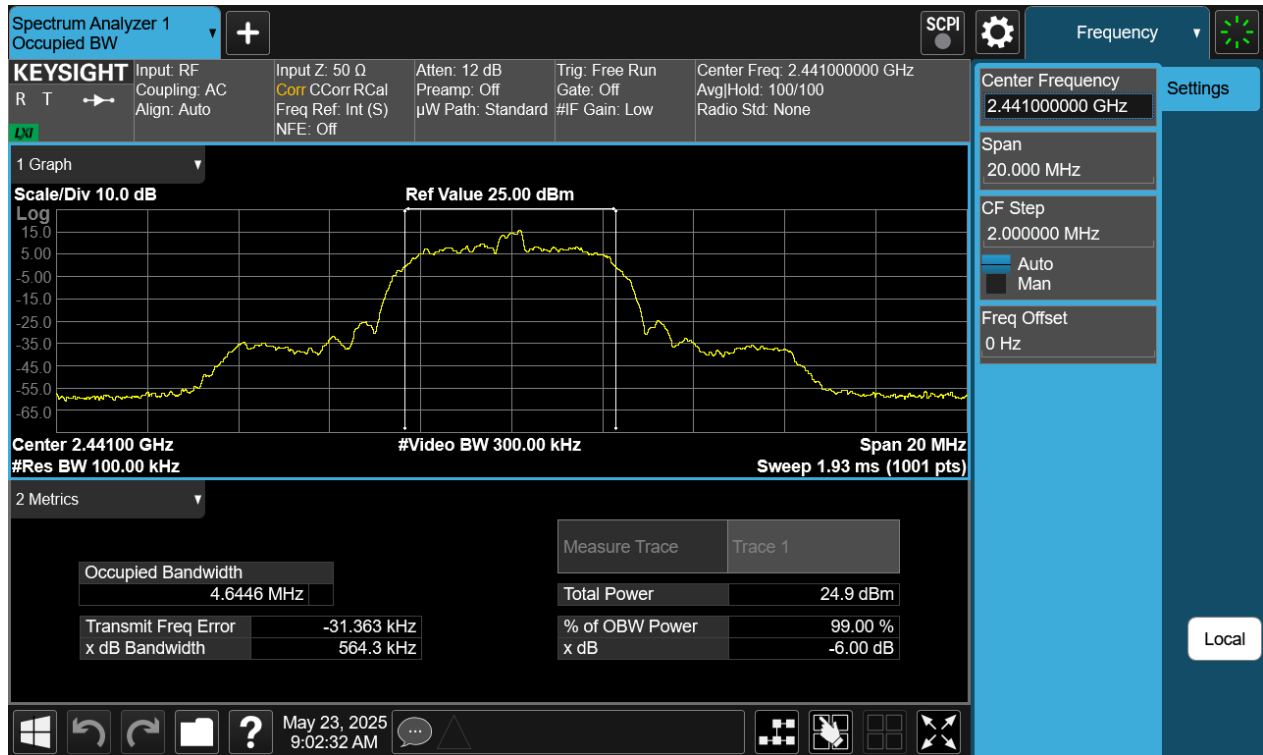


Plot 7-3. 6dB BW & 99% OBW Plot Antenna WF8 (Bluetooth (HDR4), 4Mbps, ePA – Ch. 73)

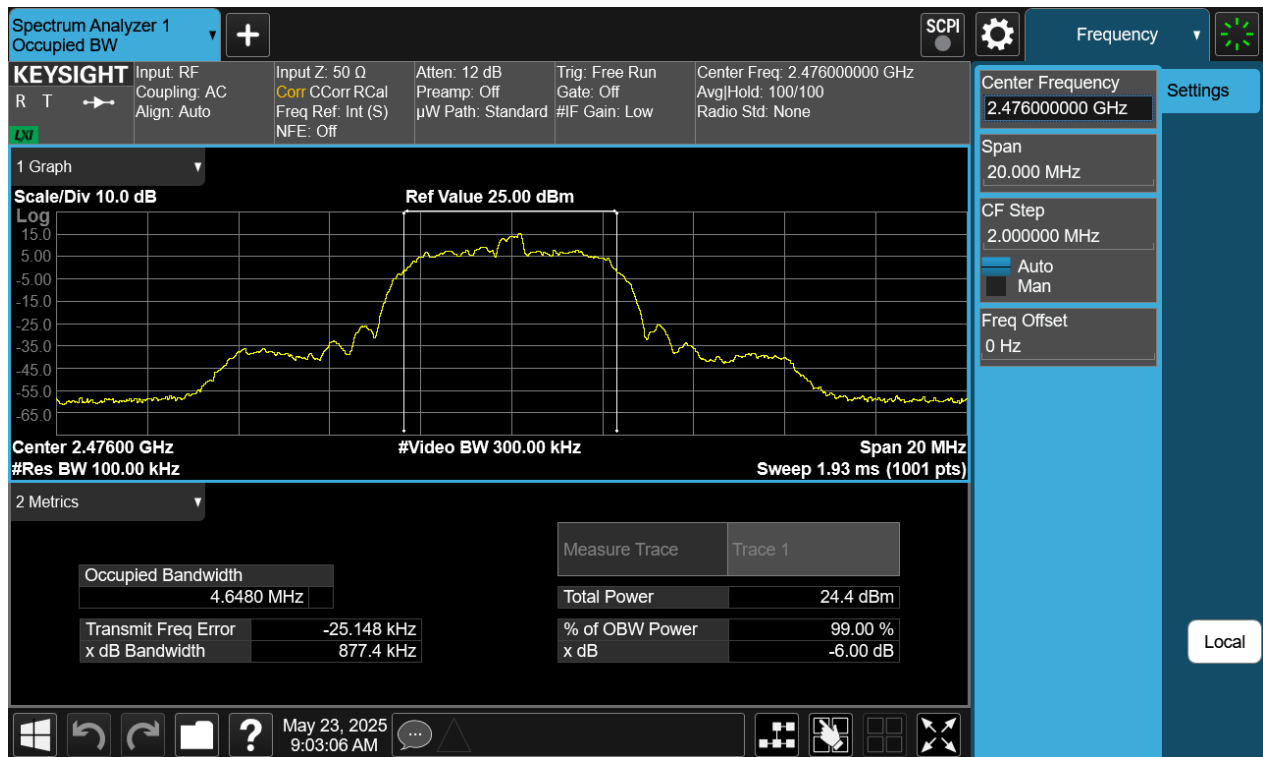


Plot 7-4. 6dB BW & 99% OBW Plot Antenna WF8 (Bluetooth (HDR8), 8Mbps, ePA – Ch. 1)

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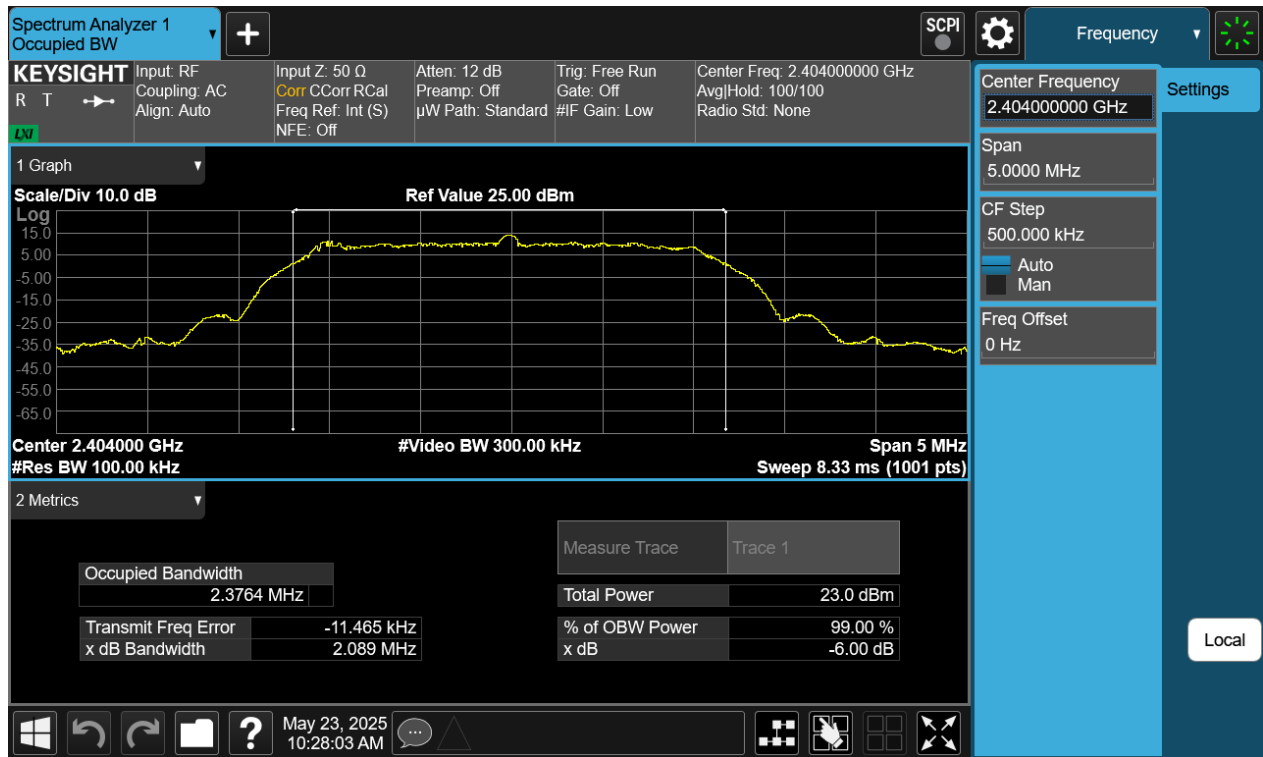


Plot 7-5. 6dB BW & 99% OBW Plot Antenna WF8 (Bluetooth (HDR8), 8Mbps, ePA – Ch. 38)



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

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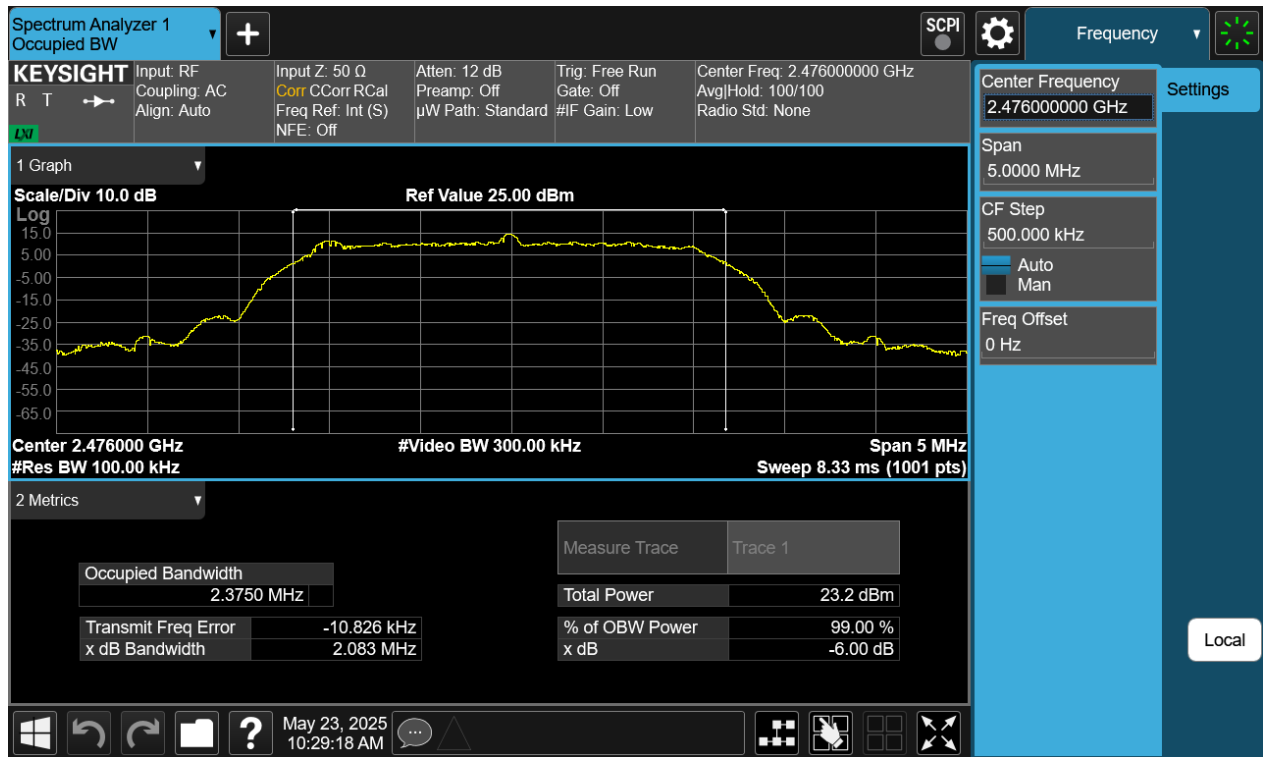


Plot 7-7. 6dB BW & 99% OBW Plot Antenna WF8 (Bluetooth (HDRPS2), 2Mbps, ePA – Ch. 1)

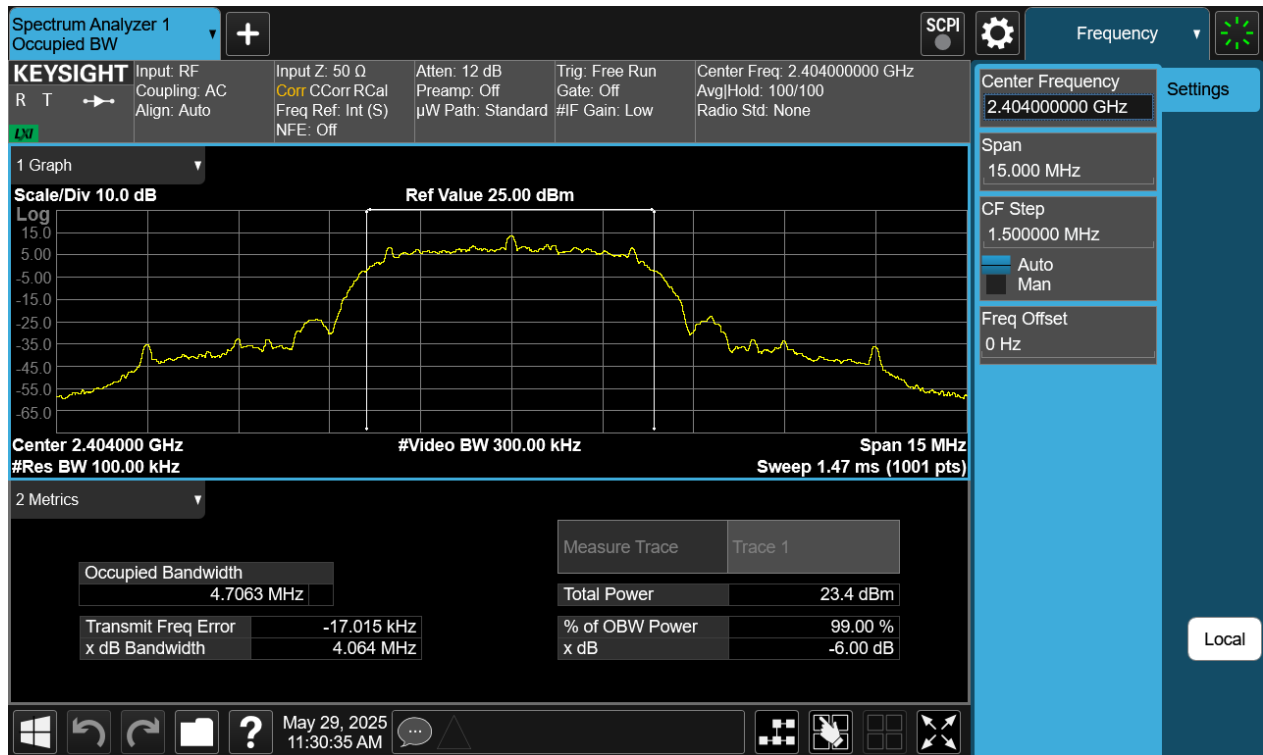


Plot 7-8. 6dB BW & 99% OBW Plot Antenna WF8 (Bluetooth (HDRPS2), 2Mbps, ePA – Ch. 38)

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Plot 7-9. 6dB BW & 99% OBW Plot Antenna WF8 (Bluetooth (HDRPS2), 2Mbps, ePA – Ch. 73)

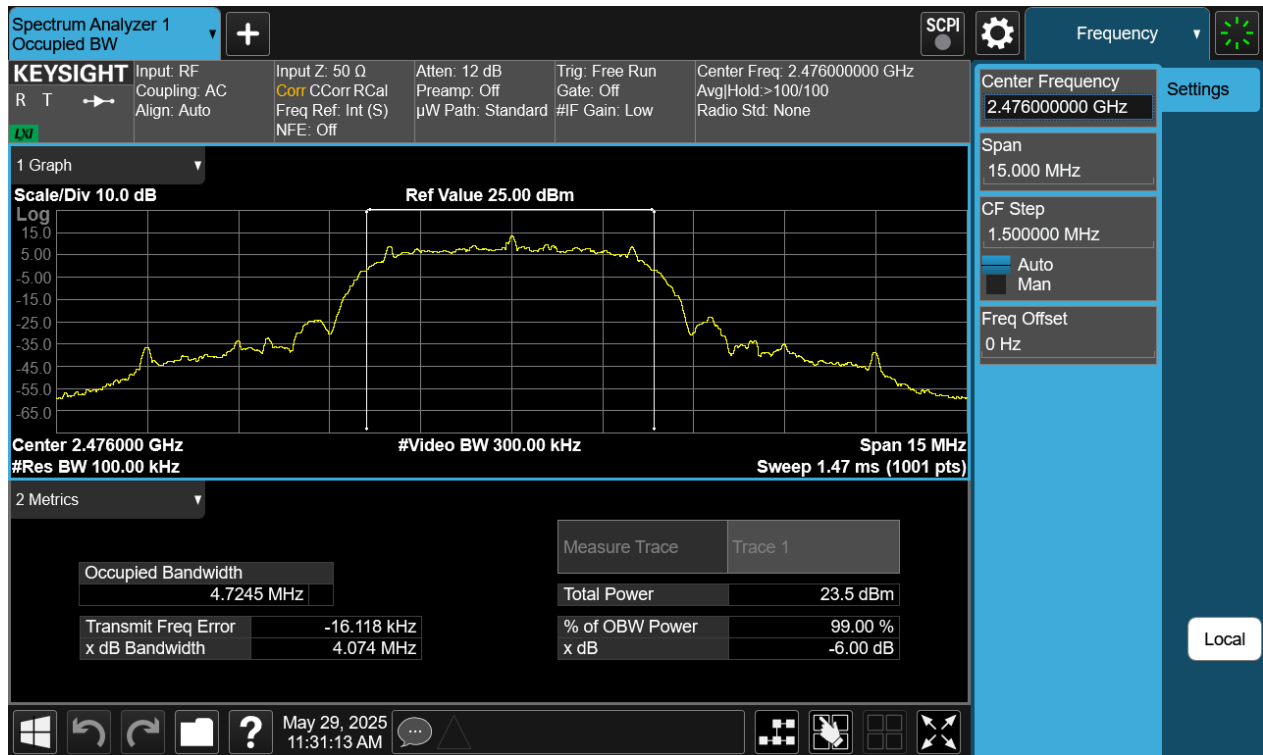
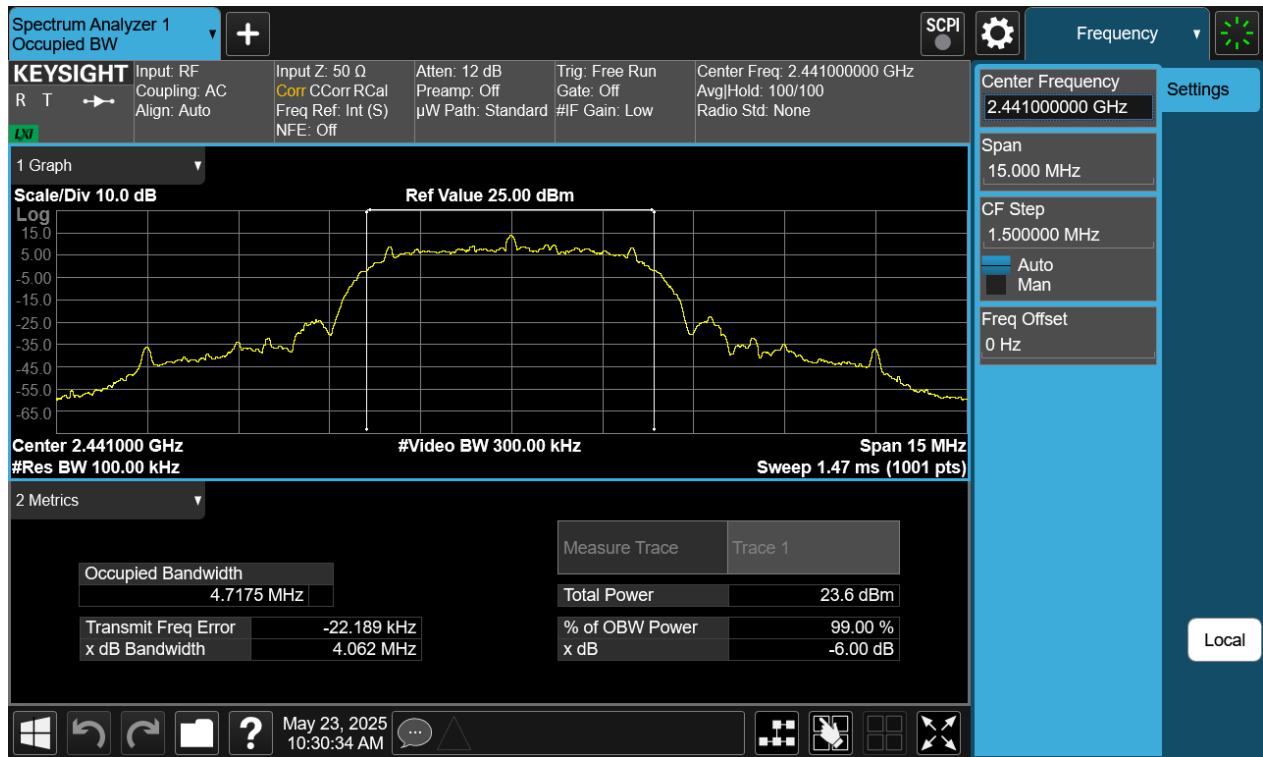


Plot 7-10. 6dB BW & 99% OBW Plot Antenna WF8 (Bluetooth (XHDRPM6), 6Mbps, ePA – Ch. 1)

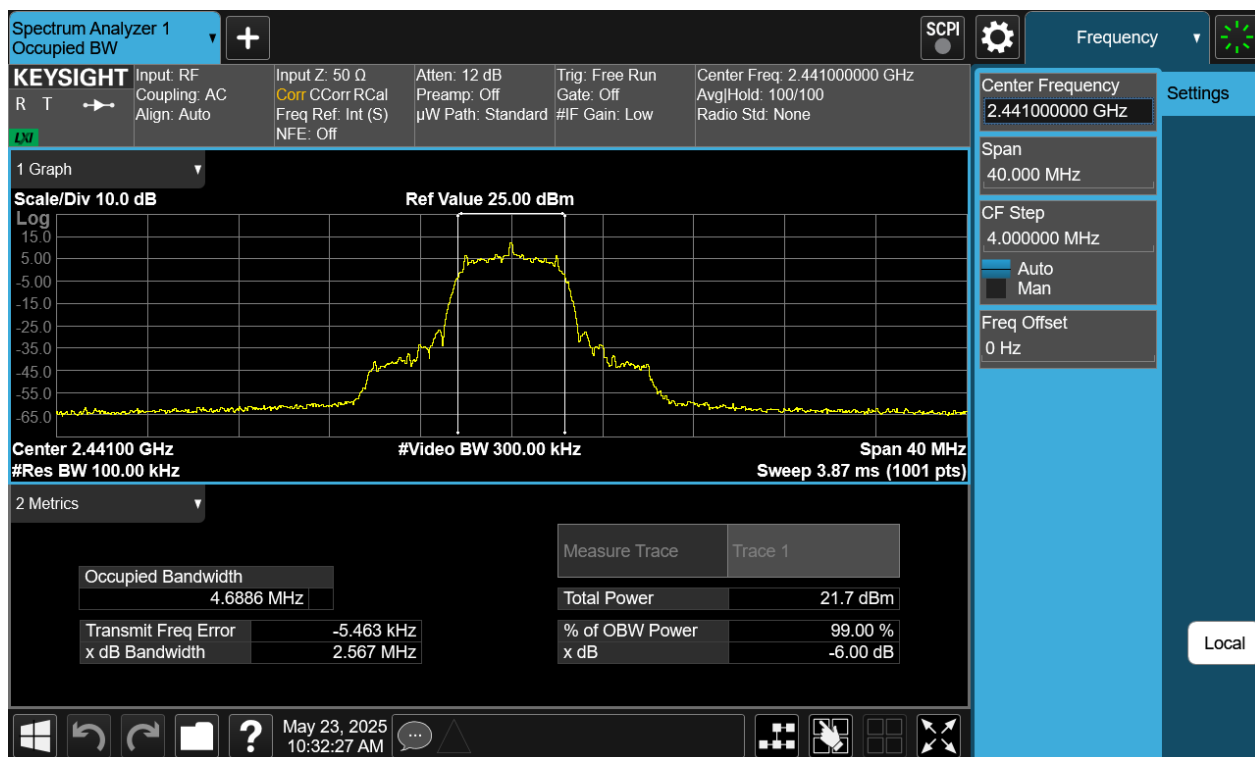
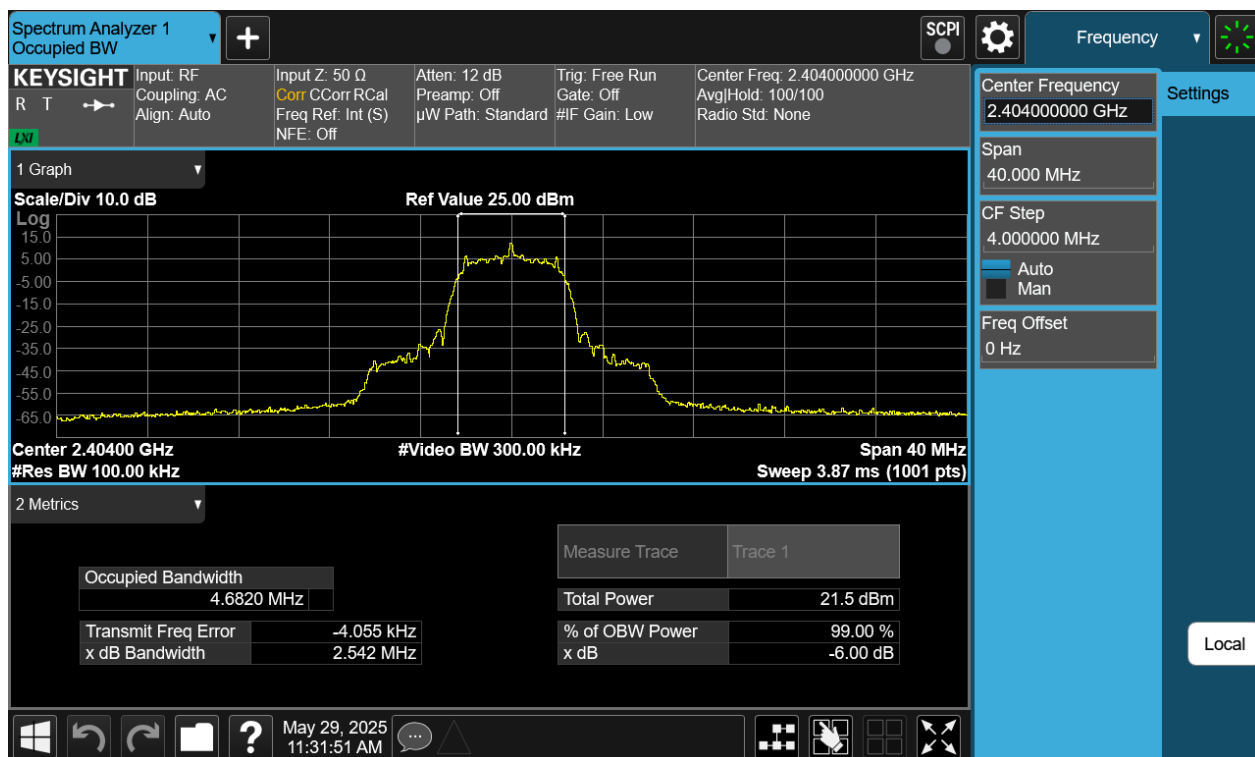
FCC ID: BCGA3357 IC: 579C-A3357		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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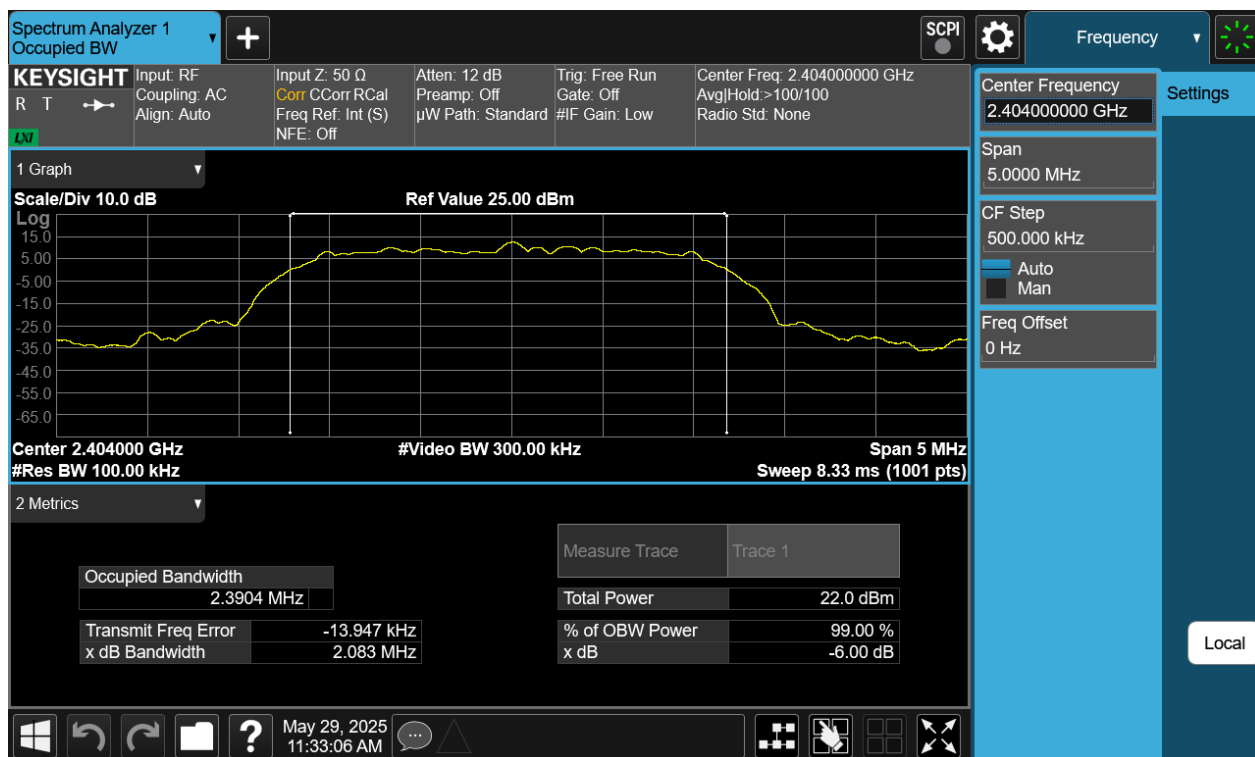
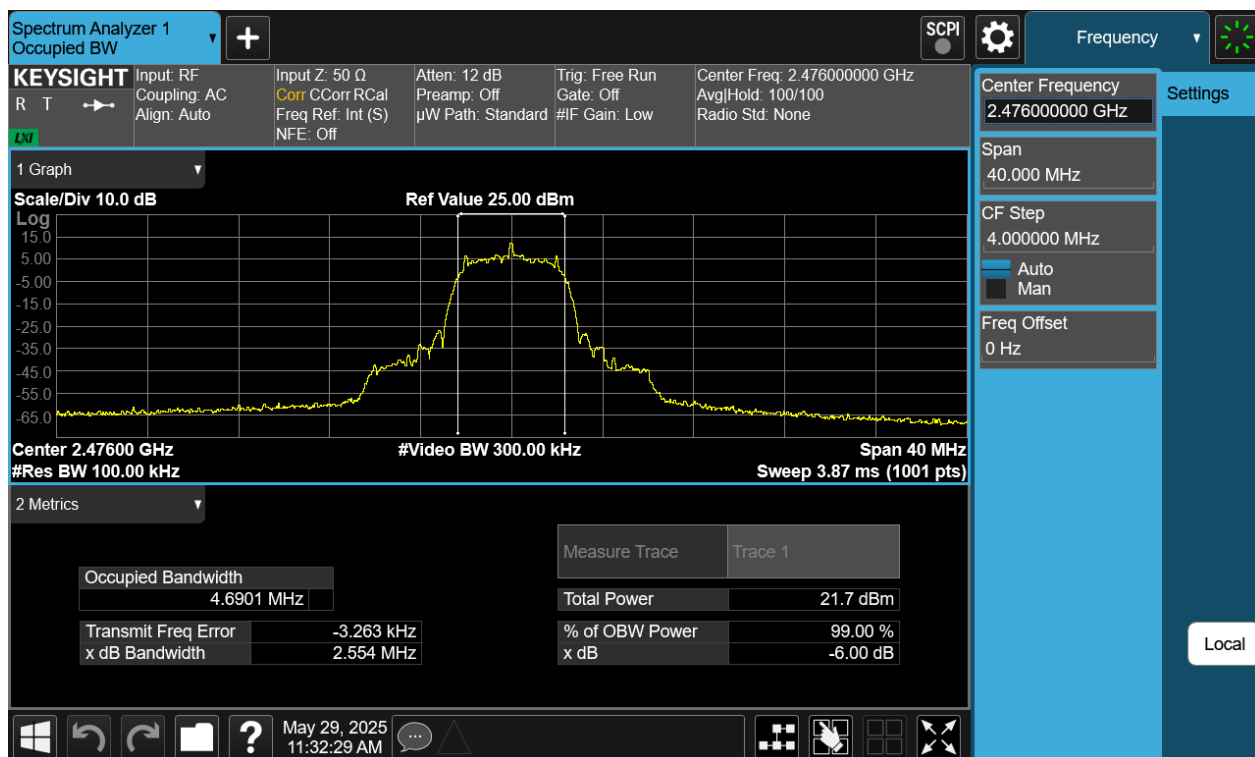
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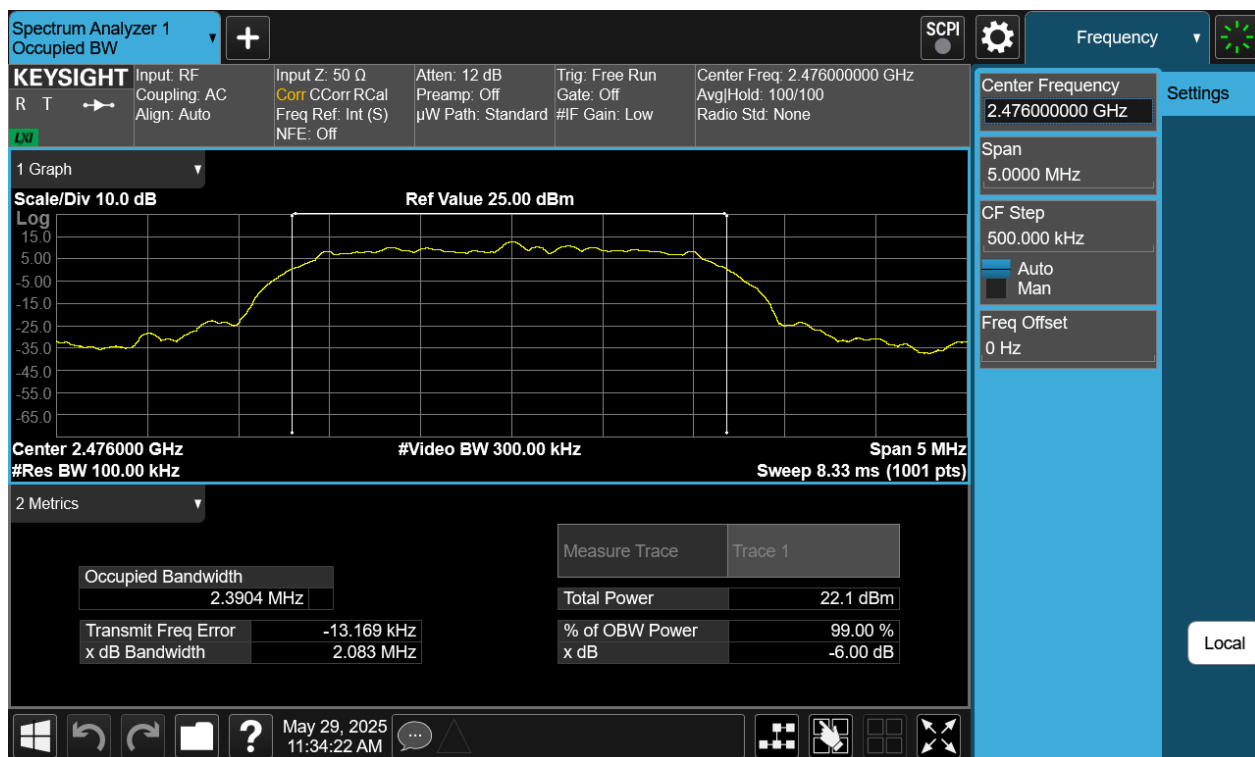
FCC ID: BCGA3357 IC: 579C-A3357		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-17. 6dB BW & 99% OBW Plot Antenna WF8 (Bluetooth (HDT2), 2Mbps, ePA – Ch. 37)



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

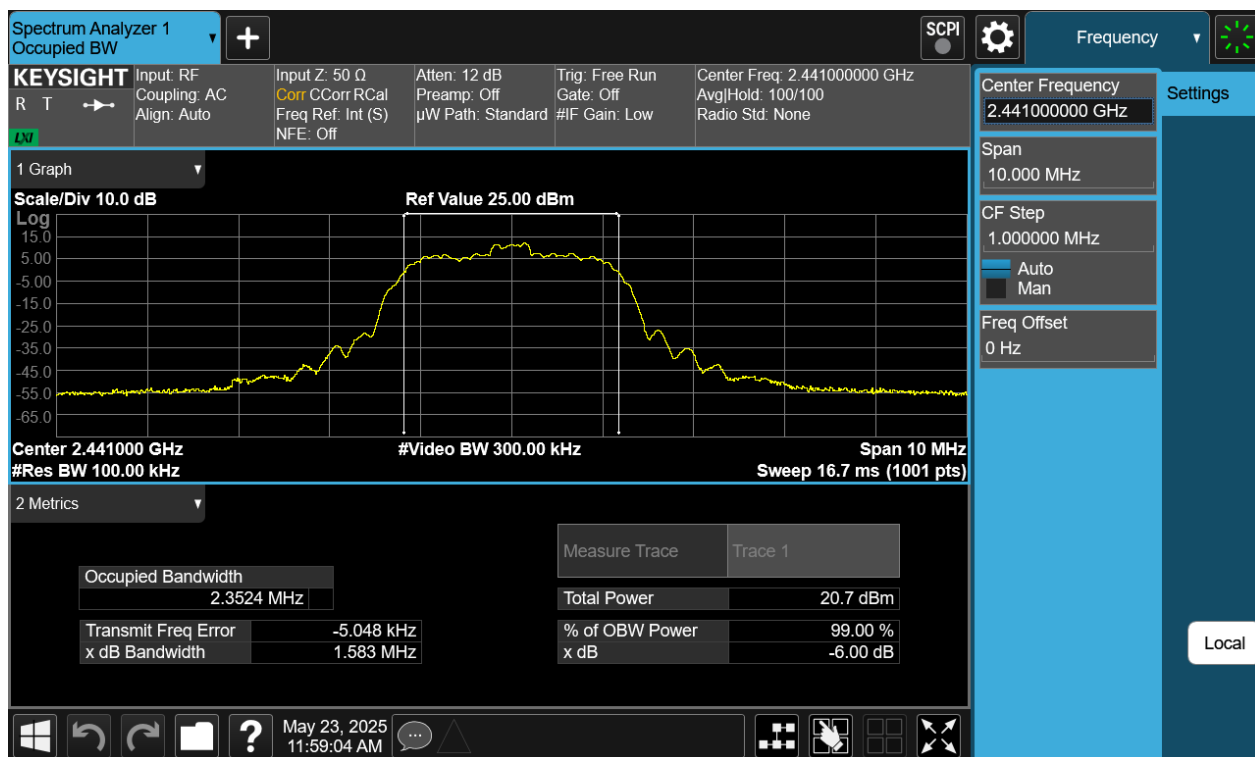
Frequency [MHz]	Mode	Power Scheme	Channel	Measured 99% Occupied Bandwidth [MHz]	Measured 6dB Bandwidth [MHz]	Minimum 6dB Bandwidth [MHz]	Pass/Fail
2404	HDR4	ePA	1	2.352	1.762	0.50	Pass
2441	HDR4	ePA	38	2.352	1.583	0.50	Pass
2476	HDR4	ePA	73	2.354	1.586	0.50	Pass
2404	HDR8	ePA	1	4.635	0.564	0.50	Pass
2441	HDR8	ePA	38	4.646	0.887	0.50	Pass
2476	HDR8	ePA	73	4.630	0.565	0.50	Pass
2404	HDRPS2	ePA	1	2.380	2.090	0.50	Pass
2441	HDRPS2	ePA	38	2.379	2.091	0.50	Pass
2476	HDRPS2	ePA	73	2.378	2.087	0.50	Pass
2404	XHDRPM6	ePA	1	4.715	4.063	0.50	Pass
2441	XHDRPM6	ePA	38	4.711	4.063	0.50	Pass
2476	XHDRPM6	ePA	73	4.720	4.063	0.50	Pass
2404	HDRPM16	ePA	1	4.689	2.693	0.50	Pass
2441	HDRPM16	ePA	38	4.683	2.698	0.50	Pass
2476	HDRPM16	ePA	73	4.684	2.318	0.50	Pass
2404	HDT2	ePA	1	2.391	2.083	0.50	Pass
2440	HDT2	ePA	37	2.396	2.119	0.50	Pass
2476	HDT2	ePA	73	2.390	2.082	0.50	Pass

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

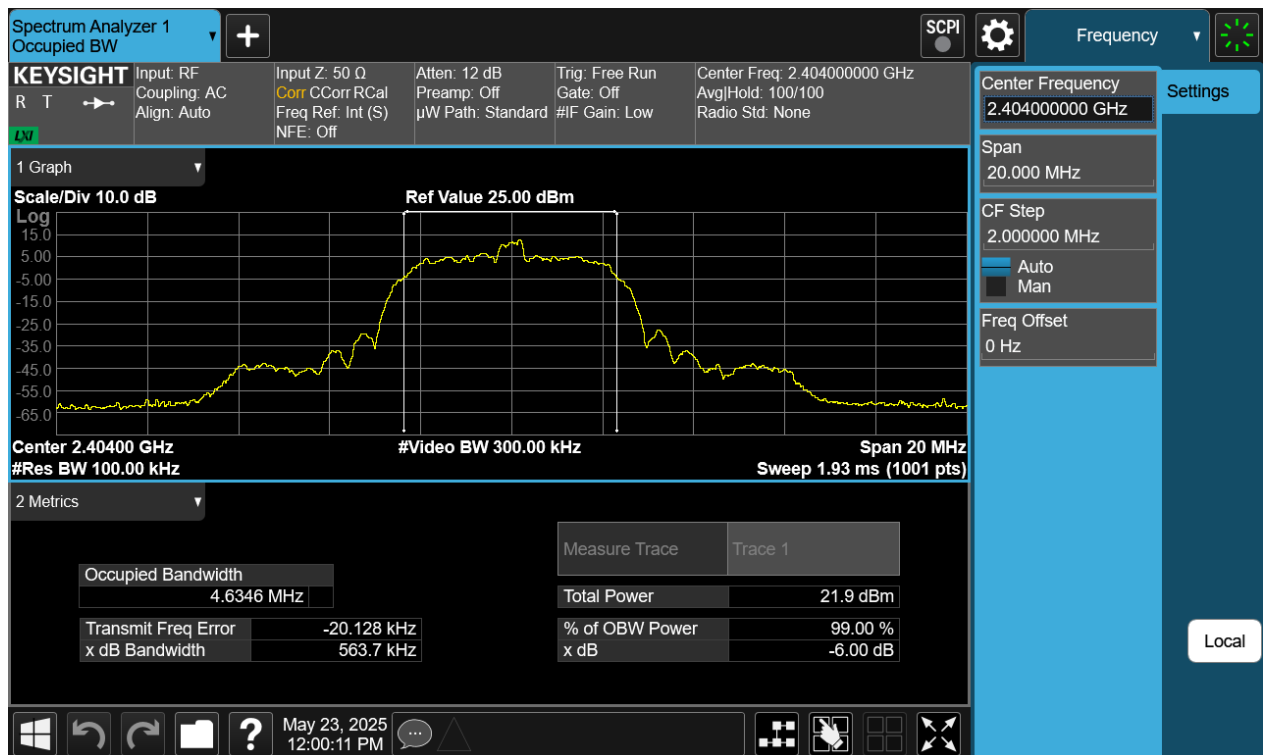
FCC ID: BCGA3357 IC: 579C-A3357		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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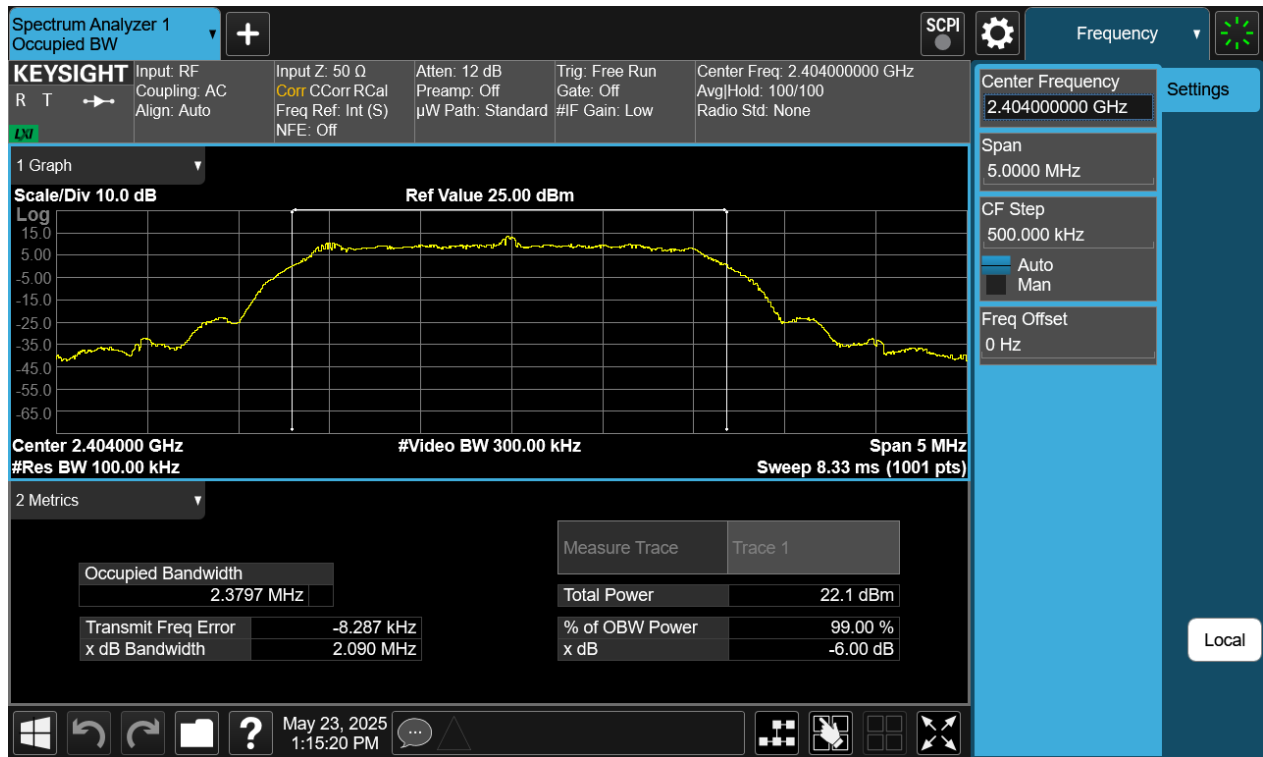
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Test Report S/N: 1C2504170038-07-R2.BCG	Test Dates: 05/12/2025 - 09/02/2025	EUT Type: Tablet Device	Page 29 of 305



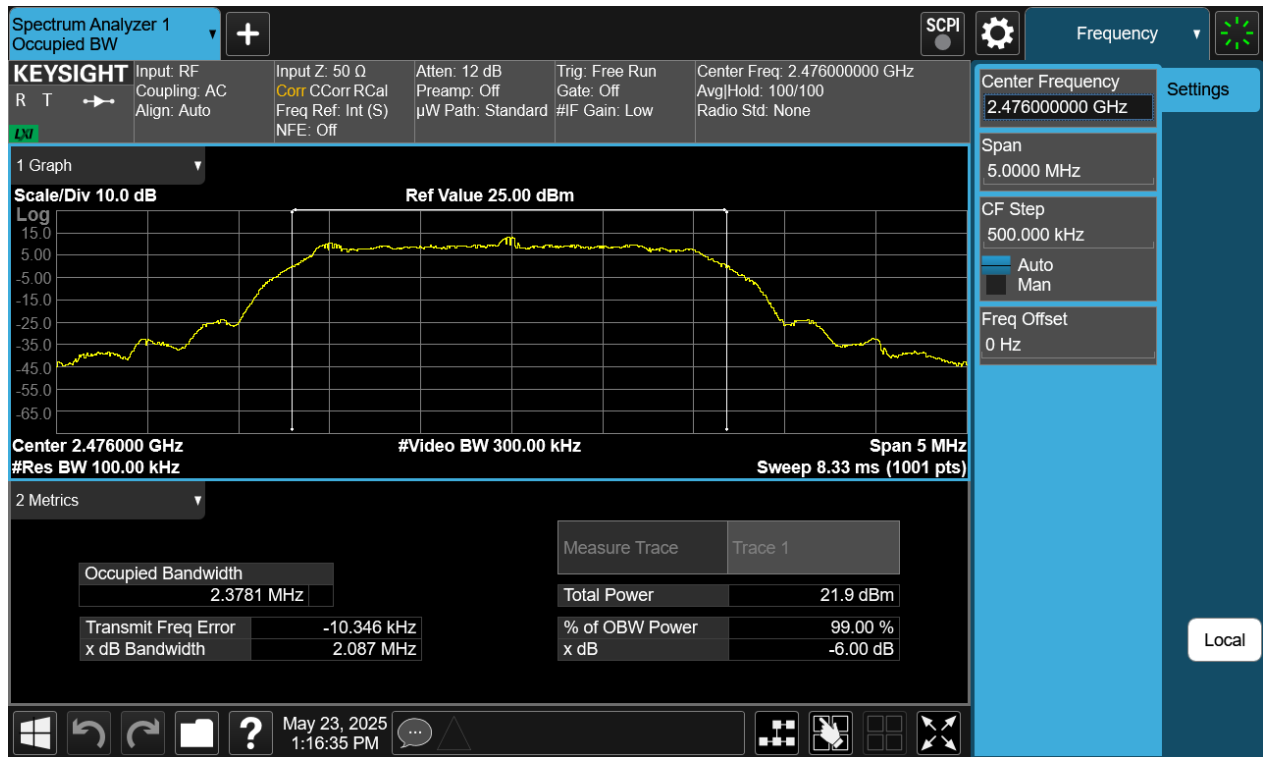


Plot 7-25. 6dB BW & 99% OBW Plot Antenna WF7 (Bluetooth (HDRPS2), 2Mbps, ePA – Ch. 1)

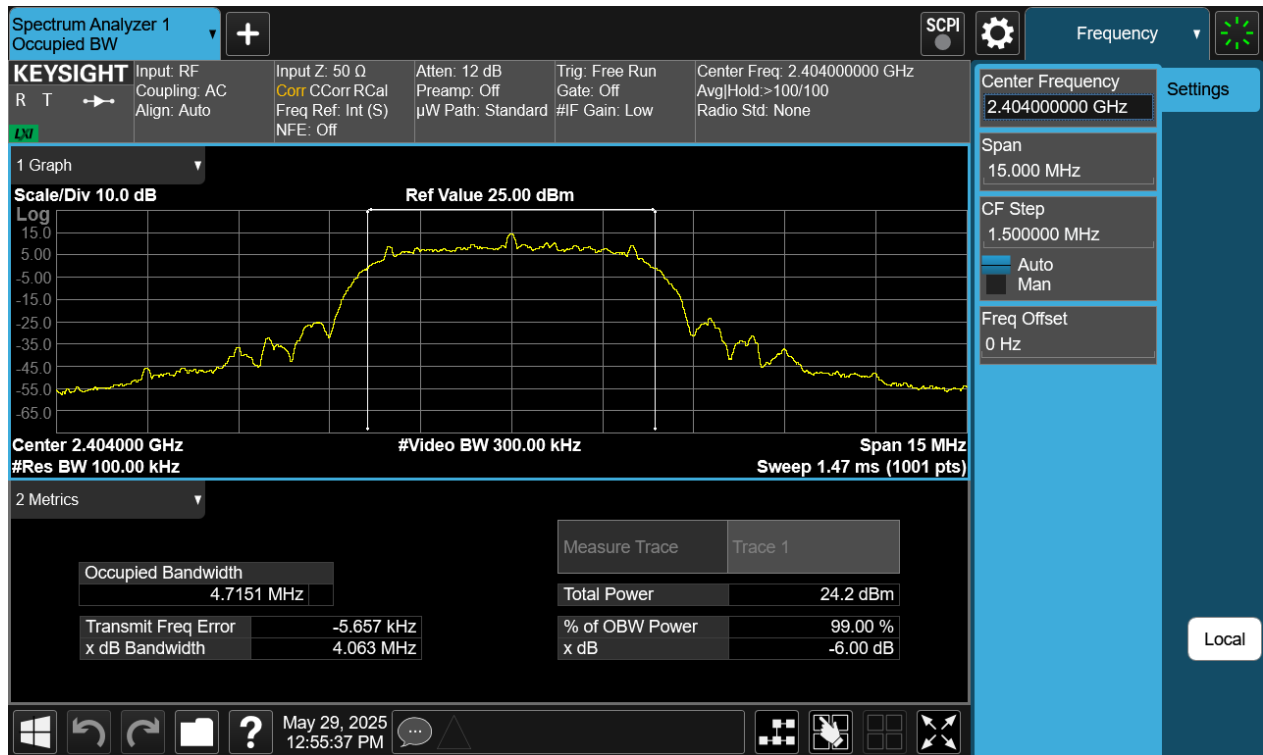


Plot 7-26. 6dB BW & 99% OBW Plot Antenna WF7 (Bluetooth (HDRPS2), 2Mbps, ePA – Ch. 38)

FCC ID: BCGA3357 IC: 579C-A3357		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)

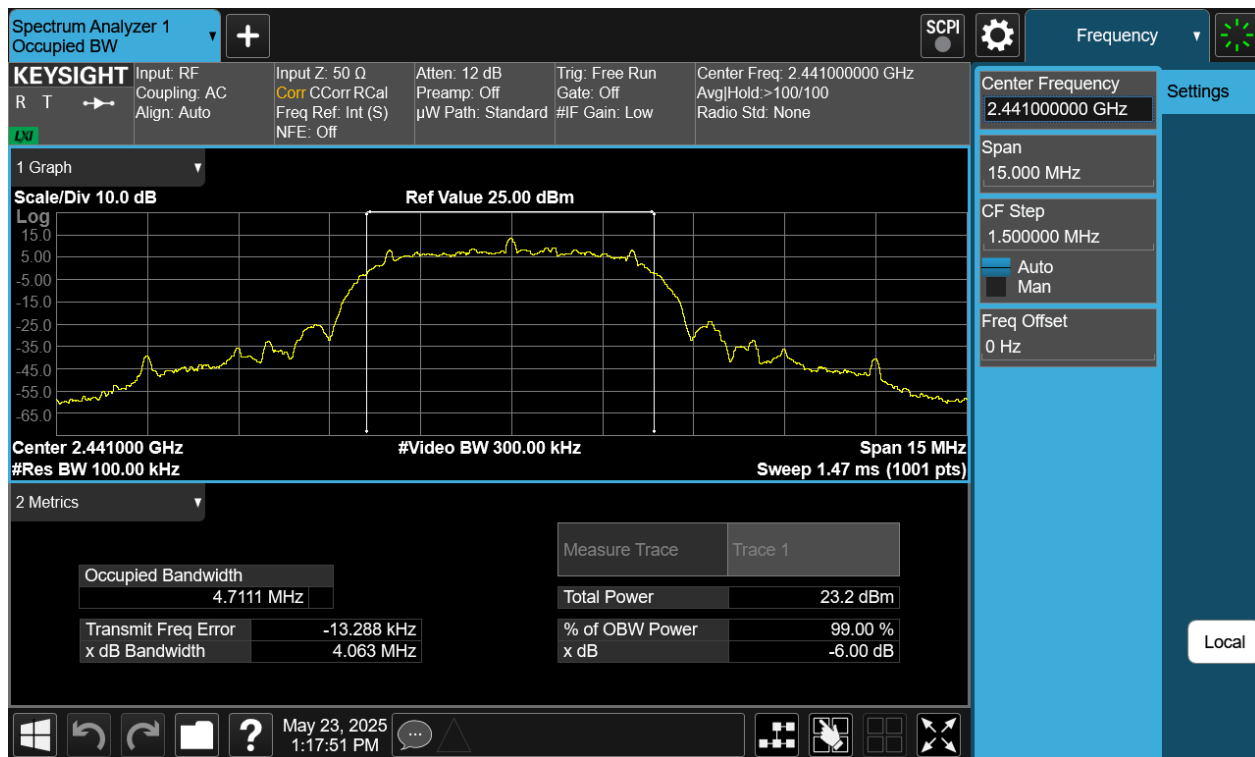


Plot 7-28. 6dB BW & 99% OBW Plot Antenna WF7 (Bluetooth (XHDRPM6), 6Mbps, ePA – Ch. 1)

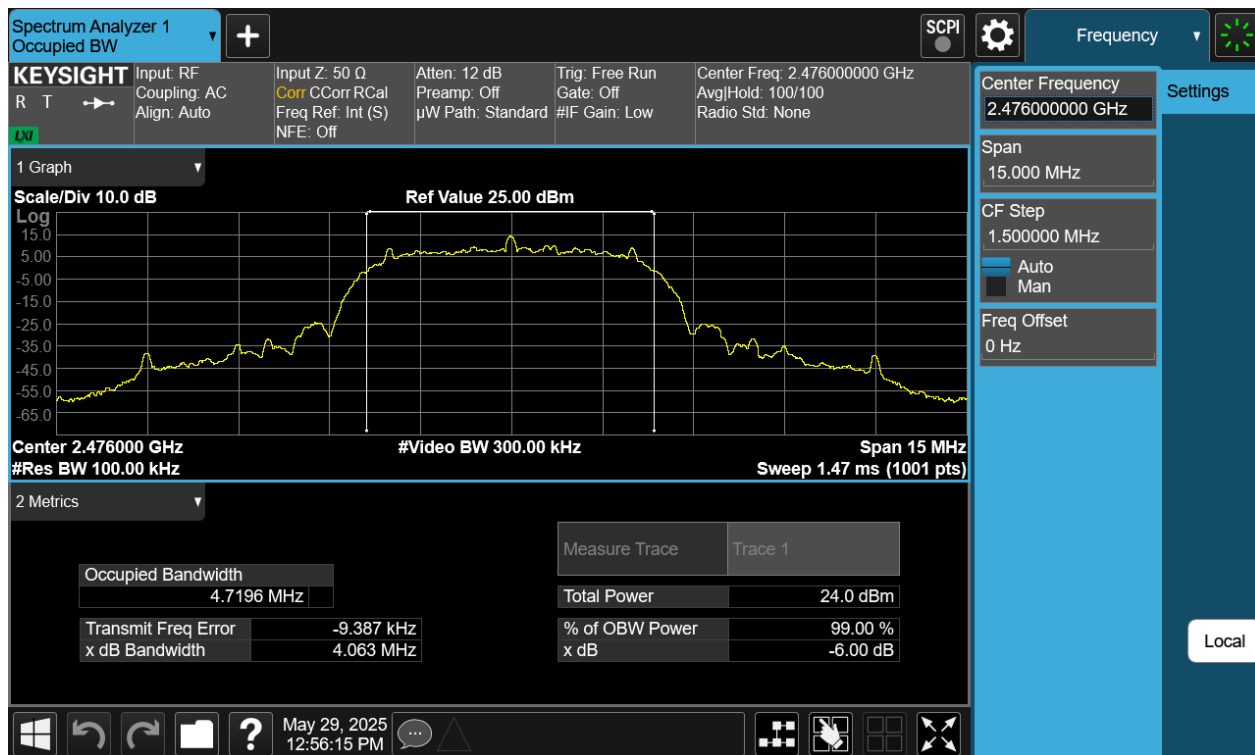
FCC ID: BCGA3357 IC: 579C-A3357		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-29. 6dB BW & 99% OBW Plot Antenna WF7 (Bluetooth (XHDRPM6), 6Mbps, ePA – Ch. 38)

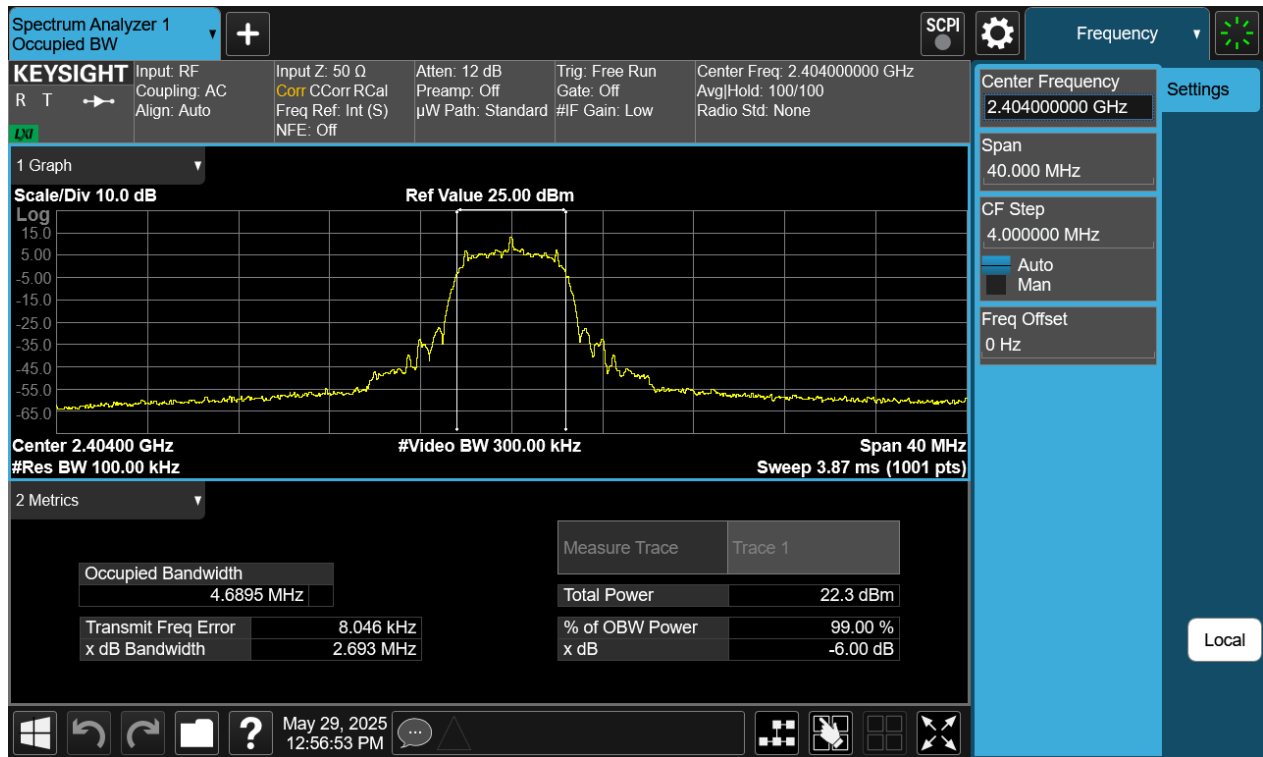


Plot 7-30. 6dB BW & 99% OBW Plot Antenna WF7 (Bluetooth (XHDRPM6), 6Mbps, ePA – Ch. 73)

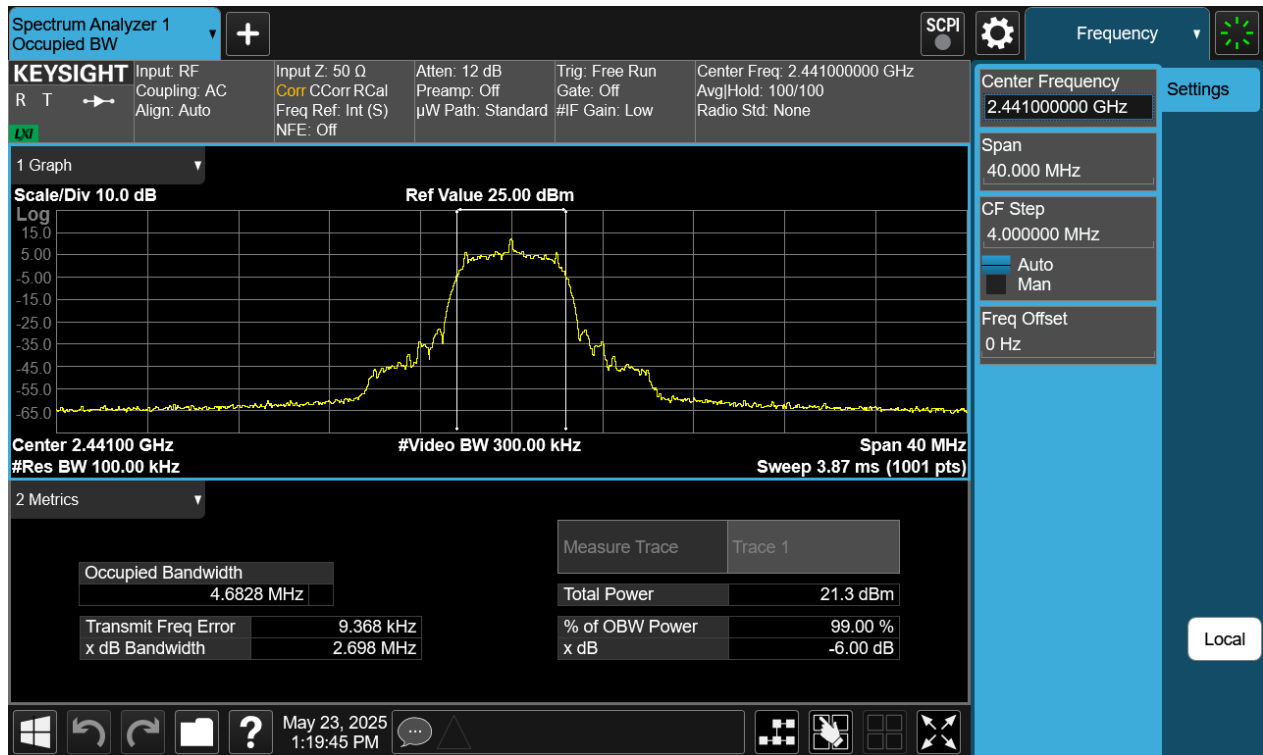
FCC ID: BCGA3357 IC: 579C-A3357		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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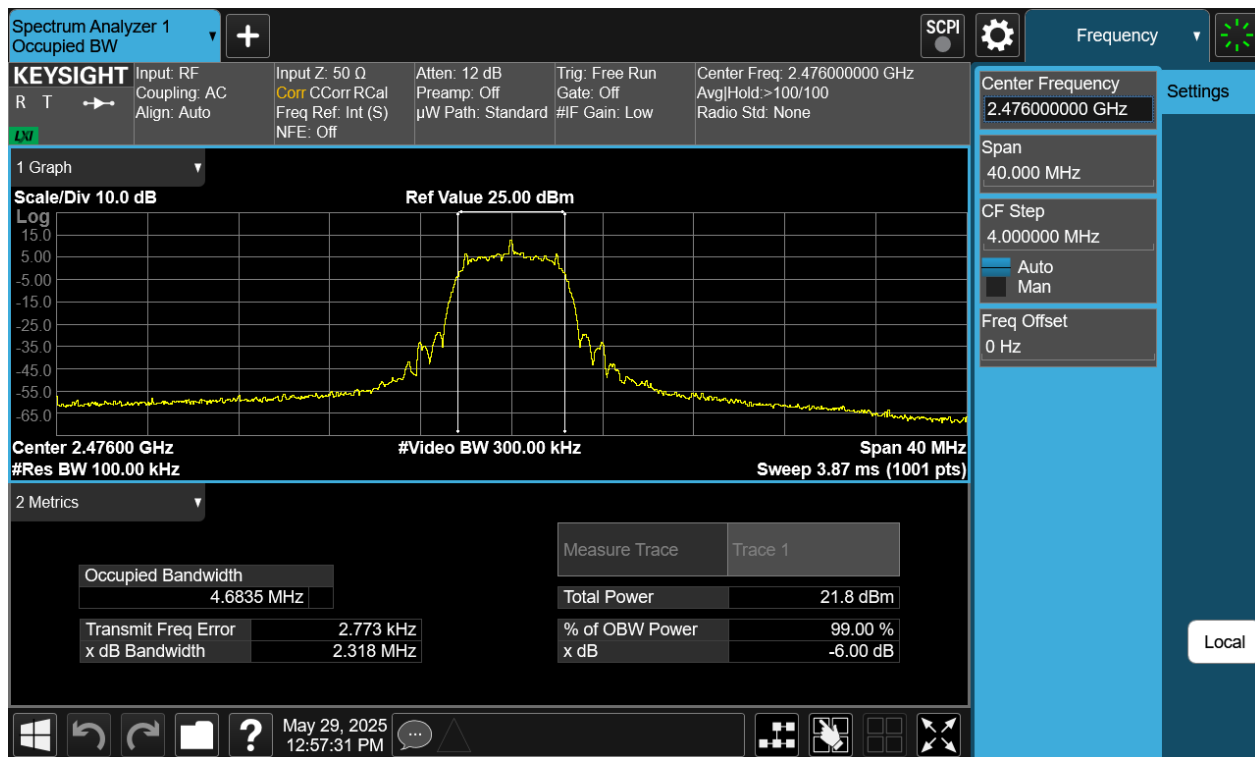


Plot 7-31. 6dB BW & 99% OBW Plot Antenna WF7 (Bluetooth (HDRPM16), 16Mbps, ePA – Ch. 1)

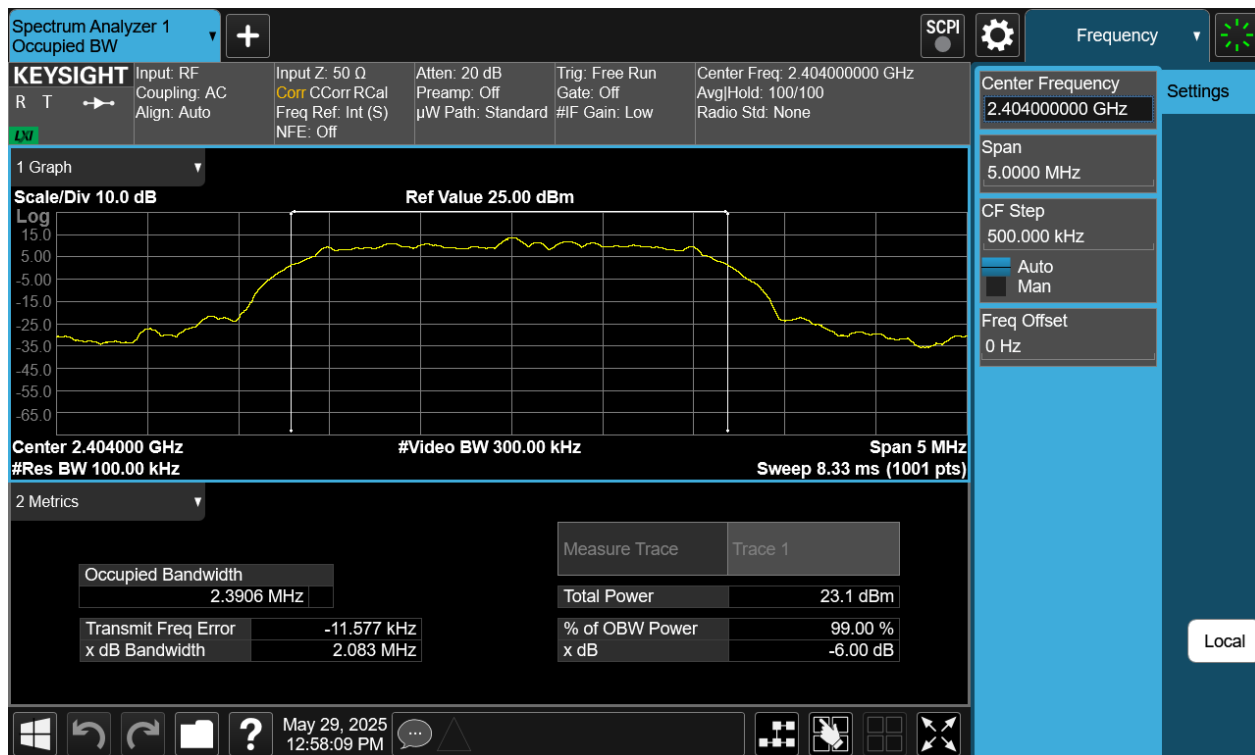


Plot 7-32. 6dB BW & 99% OBW Plot Antenna WF7 (Bluetooth (HDRPM16), 16Mbps, ePA – Ch. 38)

FCC ID: BCGA3357 IC: 579C-A3357		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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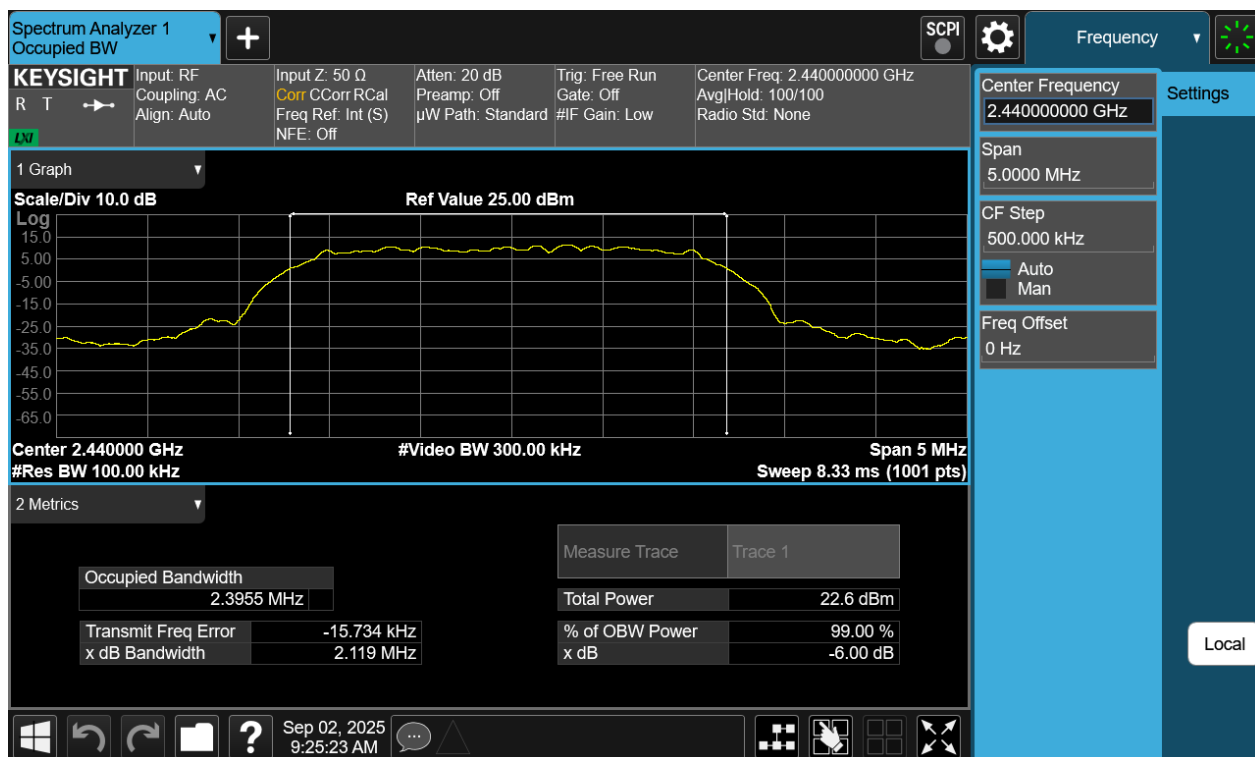


Plot 7-33. 6dB BW & 99% OBW Plot Antenna WF7 (Bluetooth (HDRPM16), 16Mbps, ePA – Ch. 73)

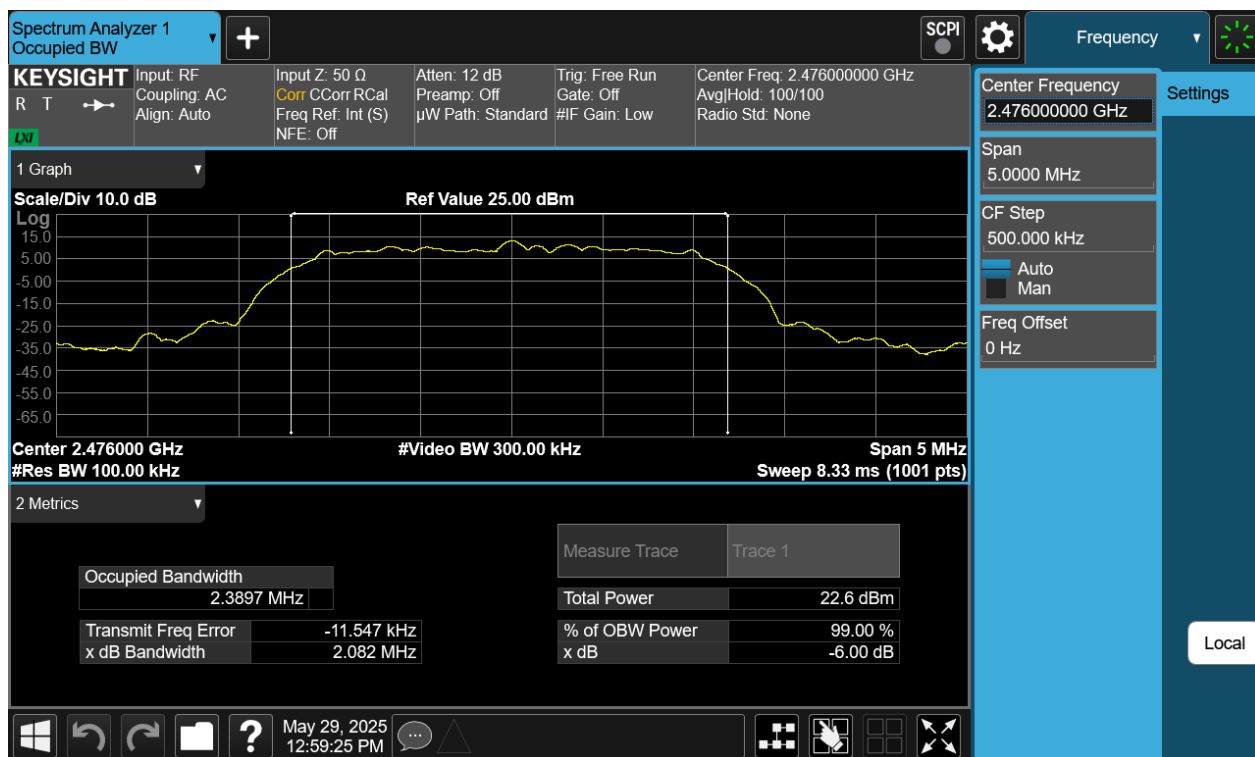


Plot 7-34. 6dB BW & 99% OBW Plot Antenna WF7 (Bluetooth (HDT2), 2Mbps, ePA – Ch. 1)

FCC ID: BCGA3357 IC: 579C-A3357		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)

FCC ID: BCGA3357 IC: 579C-A3357		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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7.2.3 Antenna WF9

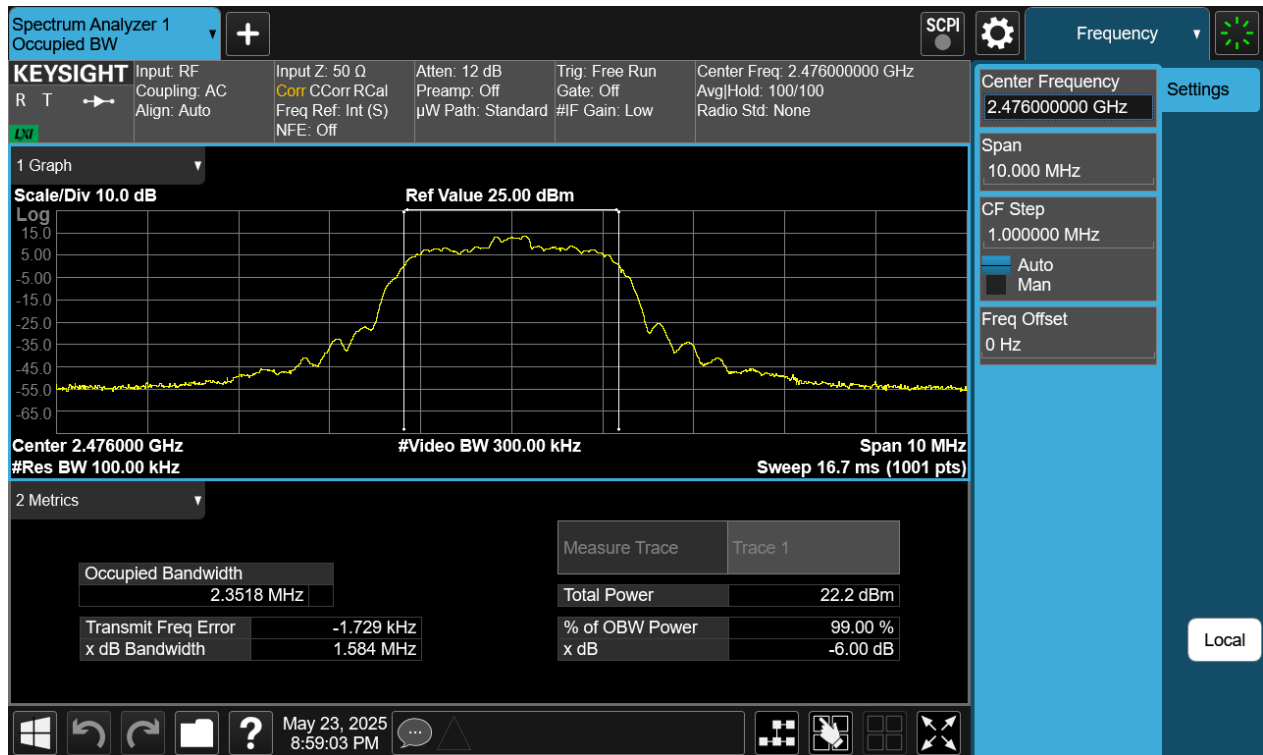
Frequency [MHz]	Mode	Power Scheme	Channel	Measured 99% Occupied Bandwidth [MHz]	Measured 6dB Bandwidth [MHz]	Minimum 6dB Bandwidth [MHz]	Pass/Fail
2404	HDR4	ePA	1	2.352	1.585	0.50	Pass
2441	HDR4	ePA	38	2.352	1.581	0.50	Pass
2476	HDR4	ePA	73	2.352	1.584	0.50	Pass
2404	HDR8	ePA	1	4.634	0.565	0.50	Pass
2441	HDR8	ePA	38	4.639	0.559	0.50	Pass
2476	HDR8	ePA	73	4.646	0.563	0.50	Pass
2404	HDRPS2	ePA	1	2.382	2.089	0.50	Pass
2441	HDRPS2	ePA	38	2.382	2.085	0.50	Pass
2476	HDRPS2	ePA	73	2.380	2.096	0.50	Pass
2404	XHDRPM6	ePA	1	4.712	4.064	0.50	Pass
2441	XHDRPM6	ePA	38	4.717	4.064	0.50	Pass
2476	XHDRPM6	ePA	73	4.722	4.063	0.50	Pass
2404	HDRPM16	ePA	1	4.690	2.689	0.50	Pass
2441	HDRPM16	ePA	38	4.691	2.332	0.50	Pass
2476	HDRPM16	ePA	73	4.684	4.007	0.50	Pass
2404	HDT2	ePA	1	2.390	2.082	0.50	Pass
2440	HDT2	ePA	37	2.395	2.117	0.50	Pass
2476	HDT2	ePA	73	2.389	2.083	0.50	Pass

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

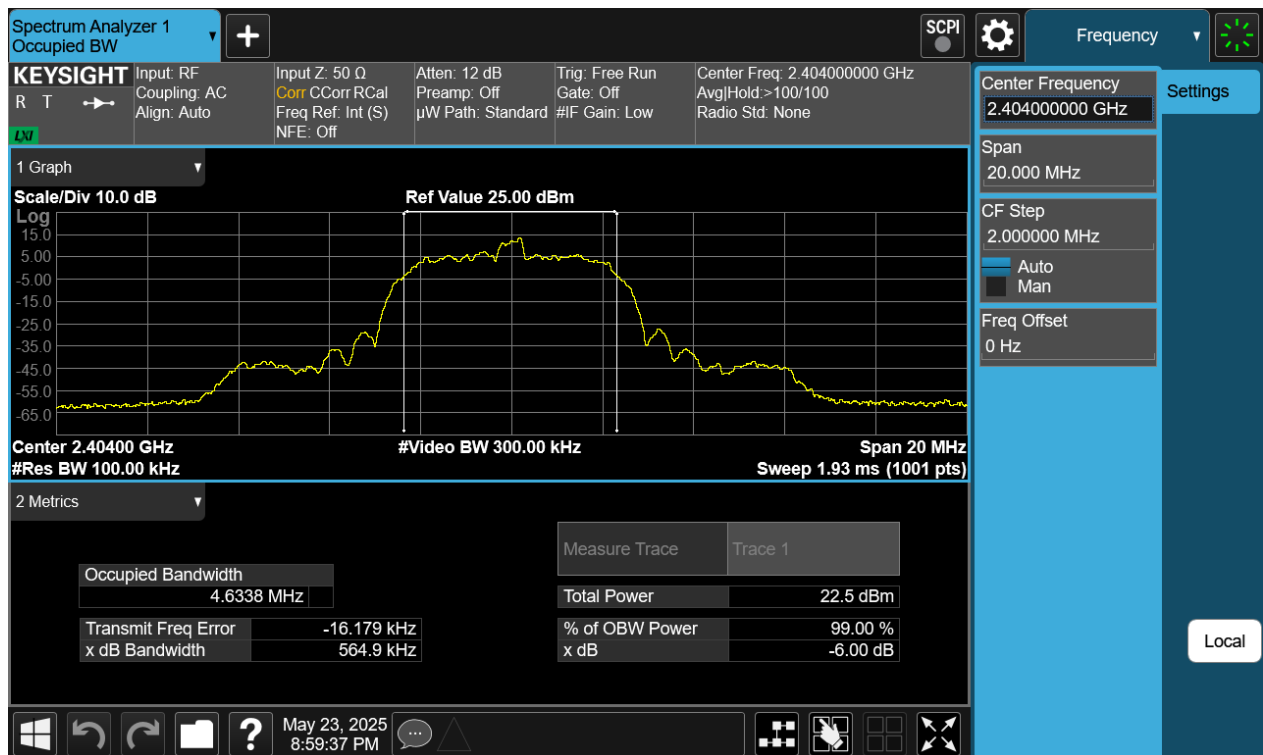
FCC ID: BCGA3357 IC: 579C-A3357		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170038-07-R2.BCG	Test Dates: 05/12/2025 - 09/02/2025	EUT Type: Tablet Device	Page 38 of 305

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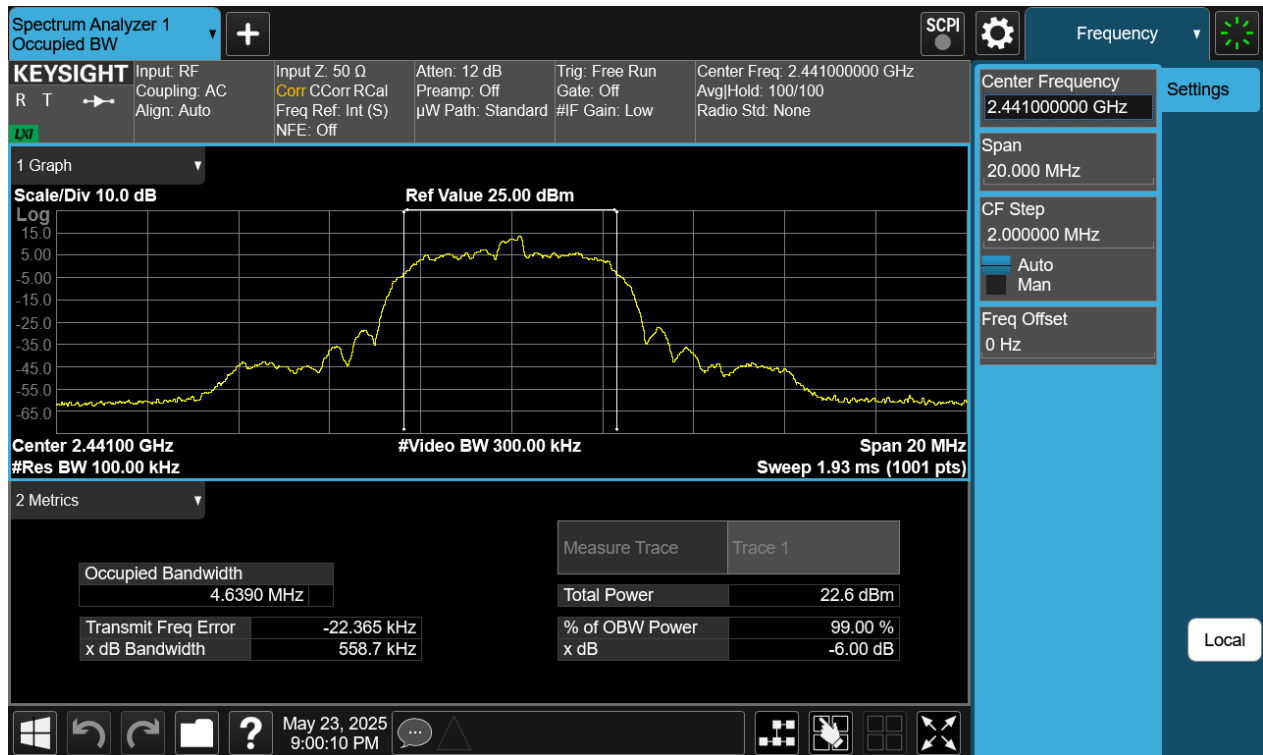


Plot 7-39. 6dB BW & 99% OBW Plot Antenna WF9 (Bluetooth (HDR4), 4Mbps, ePA – Ch. 73)

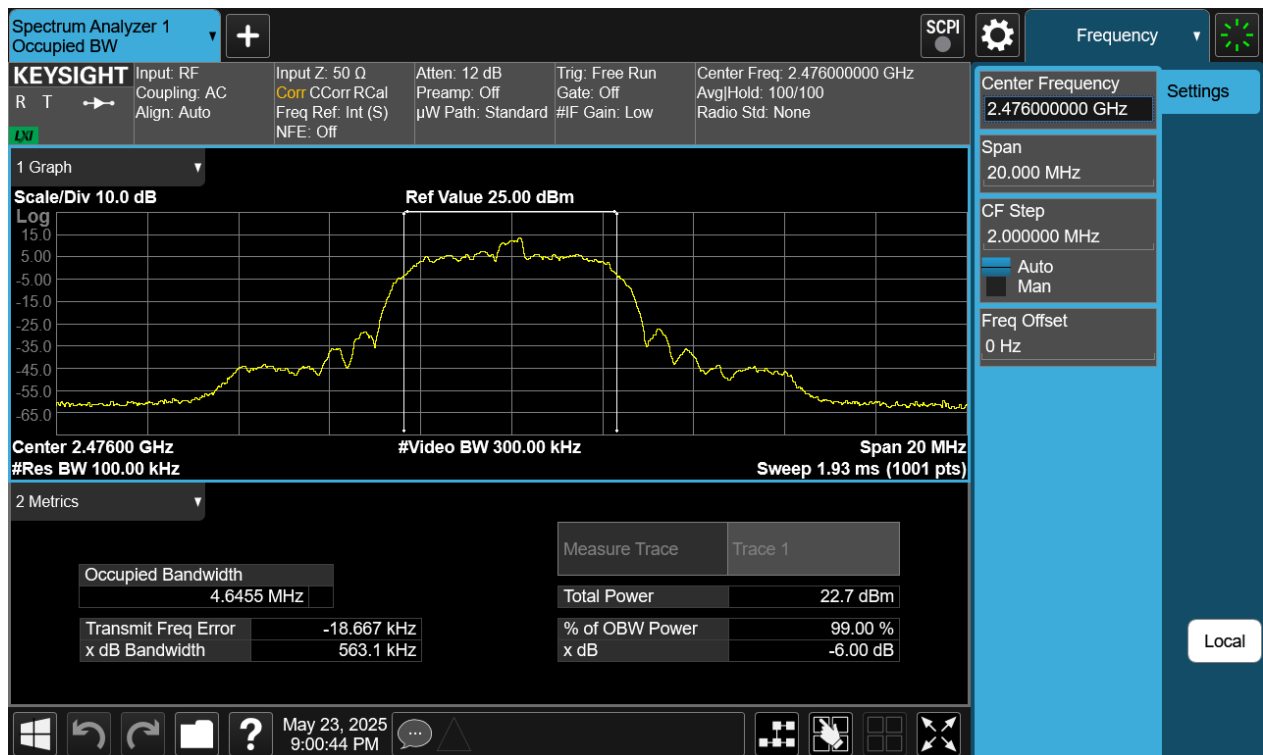


Plot 7-40. 6dB BW & 99% OBW Plot Antenna WF9 (Bluetooth (HDR8), 8Mbps, ePA – Ch. 1)

FCC ID: BCGA3357 IC: 579C-A3357	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2504170038-07-R2 BCG	Test Dates: 05/12/2025 - 09/02/2025	EUT Type: Tablet Device	Page 40 of 305

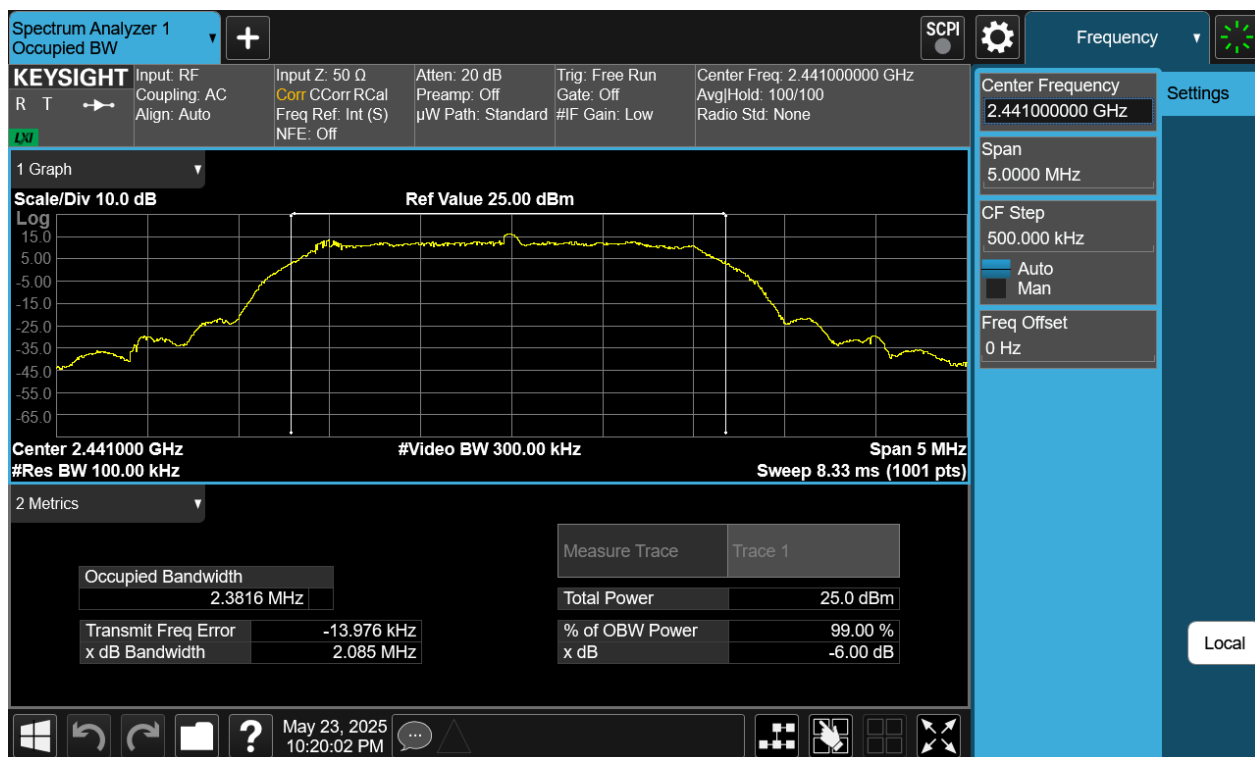


Plot 7-41. 6dB BW & 99% OBW Plot Antenna WF9 (Bluetooth (HDR8), 8Mbps, ePA – Ch. 38)

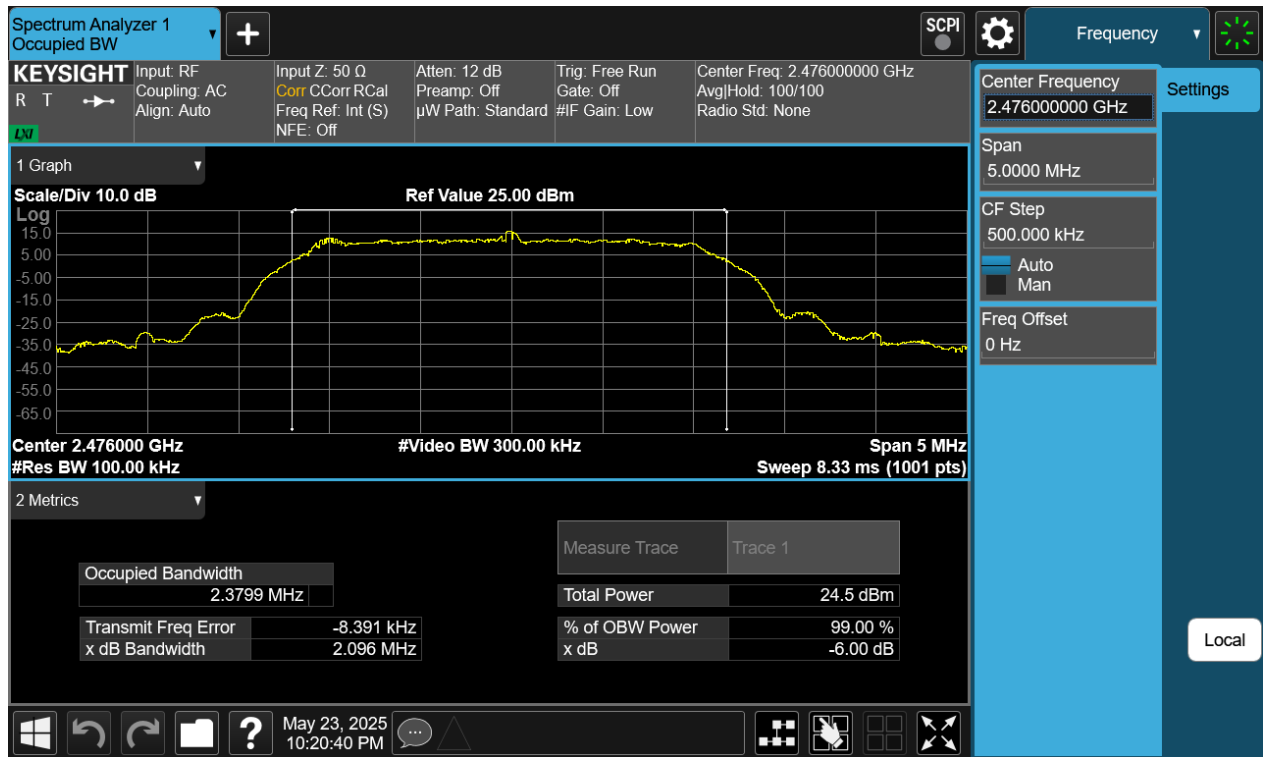


Plot 7-42. 6dB BW & 99% OBW Plot Antenna WF9 (Bluetooth (HDR8), 8Mbps, ePA – Ch. 73)

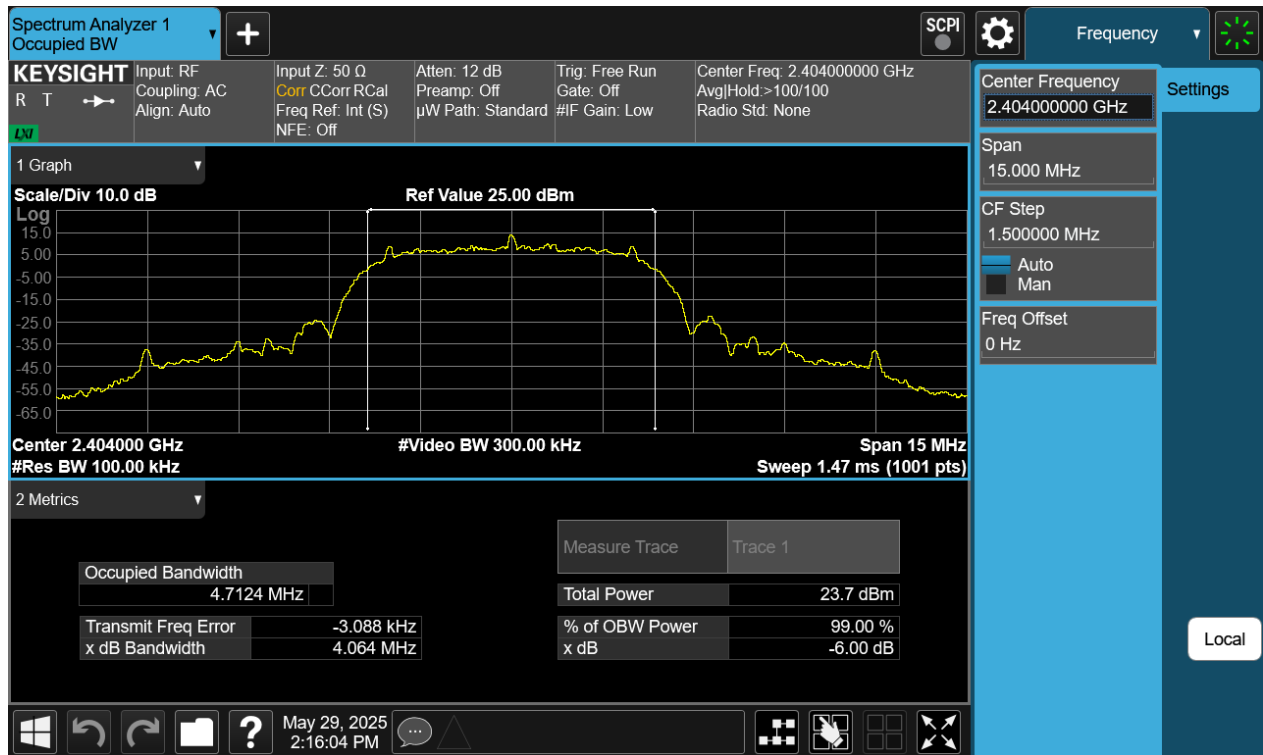
FCC ID: BCGA3357 IC: 579C-A3357	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2504170038-07-R2 BCG	Test Dates: 05/12/2025 - 09/02/2025	EUT Type: Tablet Device	Page 41 of 305



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Plot 7-45. 6dB BW & 99% OBW Plot Antenna WF9 (Bluetooth (HDRPS2), 2Mbps, ePA – Ch. 73)

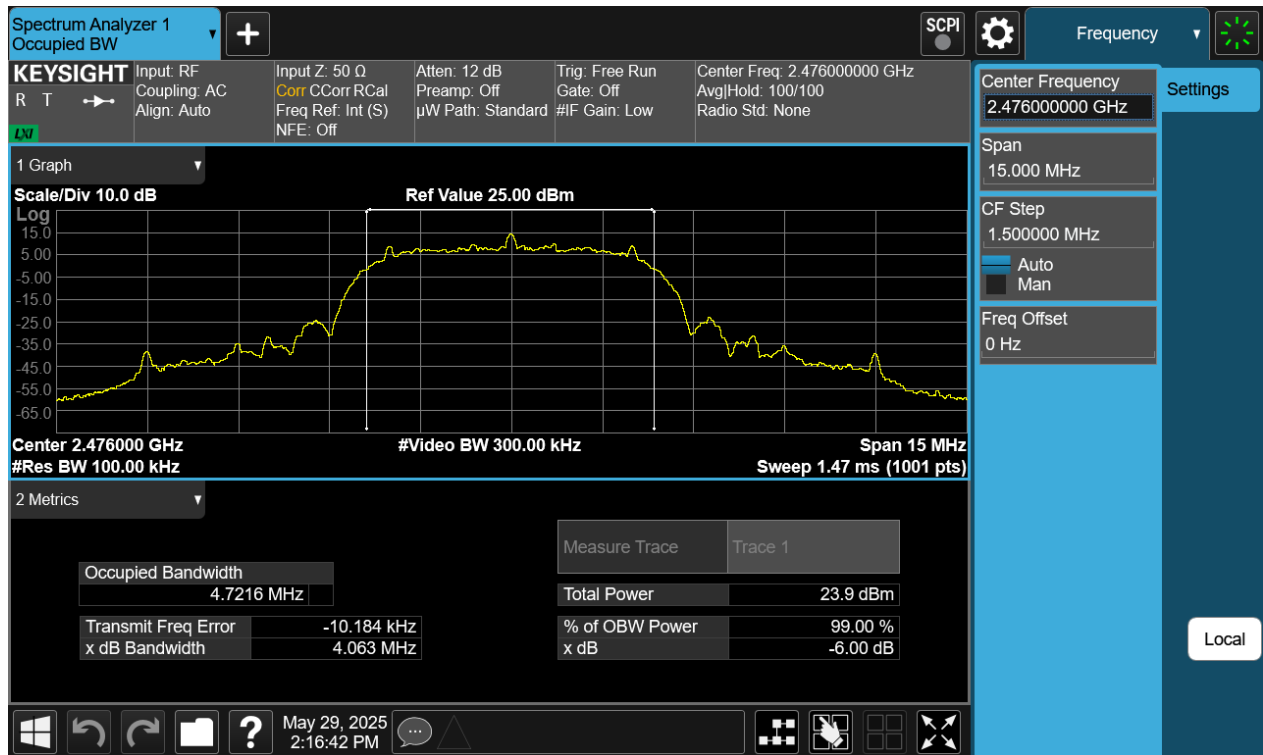
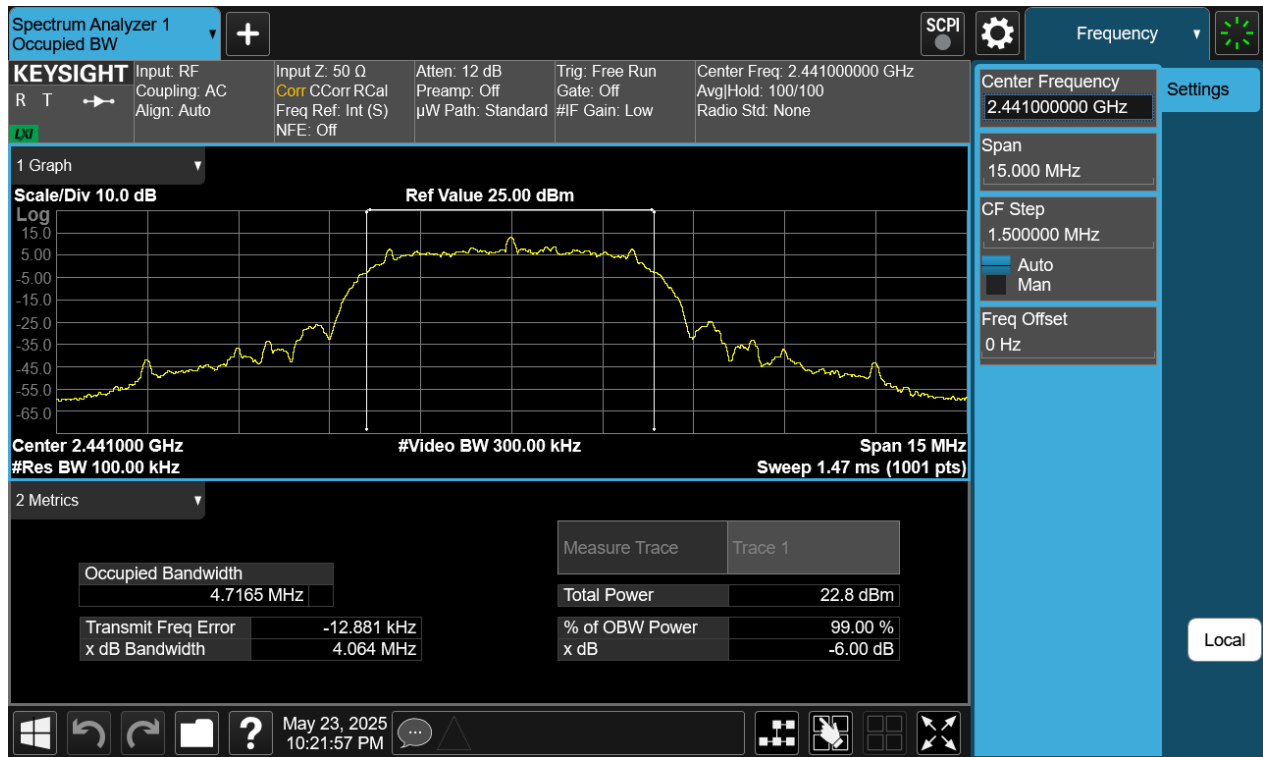


Plot 7-46. 6dB BW & 99% OBW Plot Antenna WF9 (Bluetooth (XHDRPM6), 6Mbps, ePA – Ch. 1)

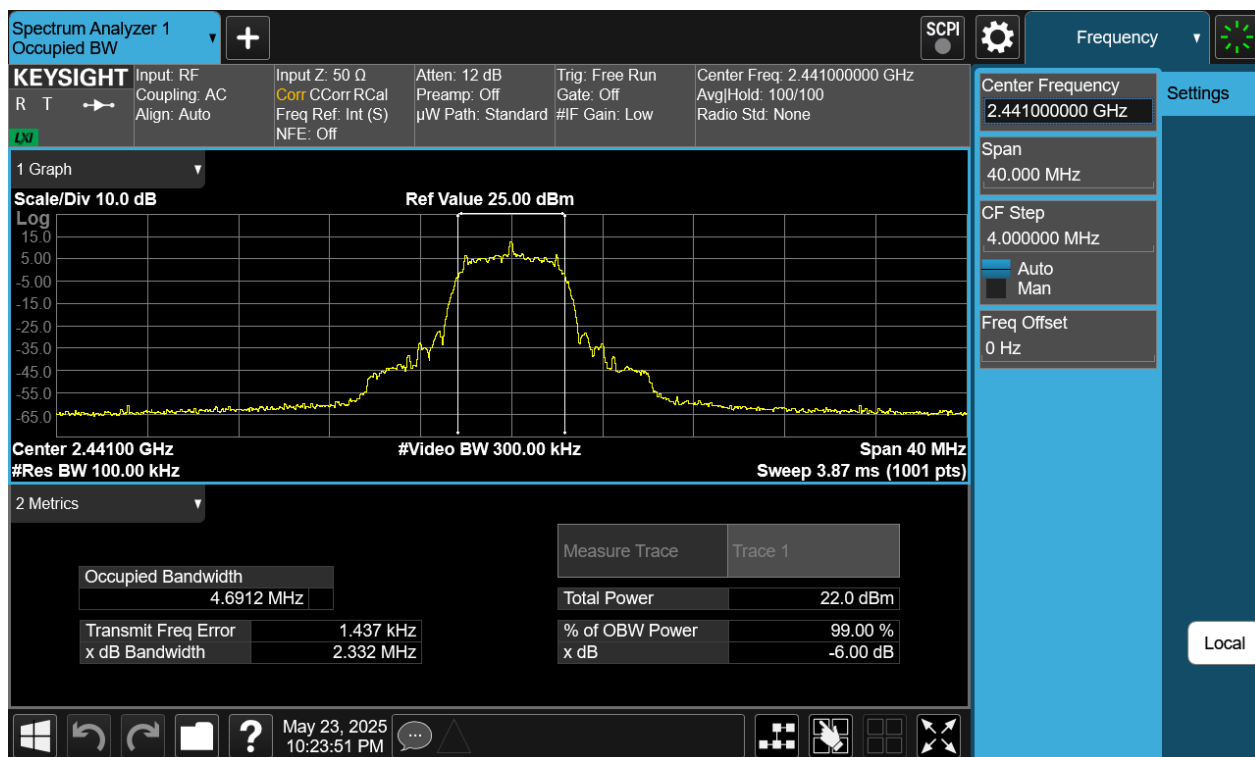
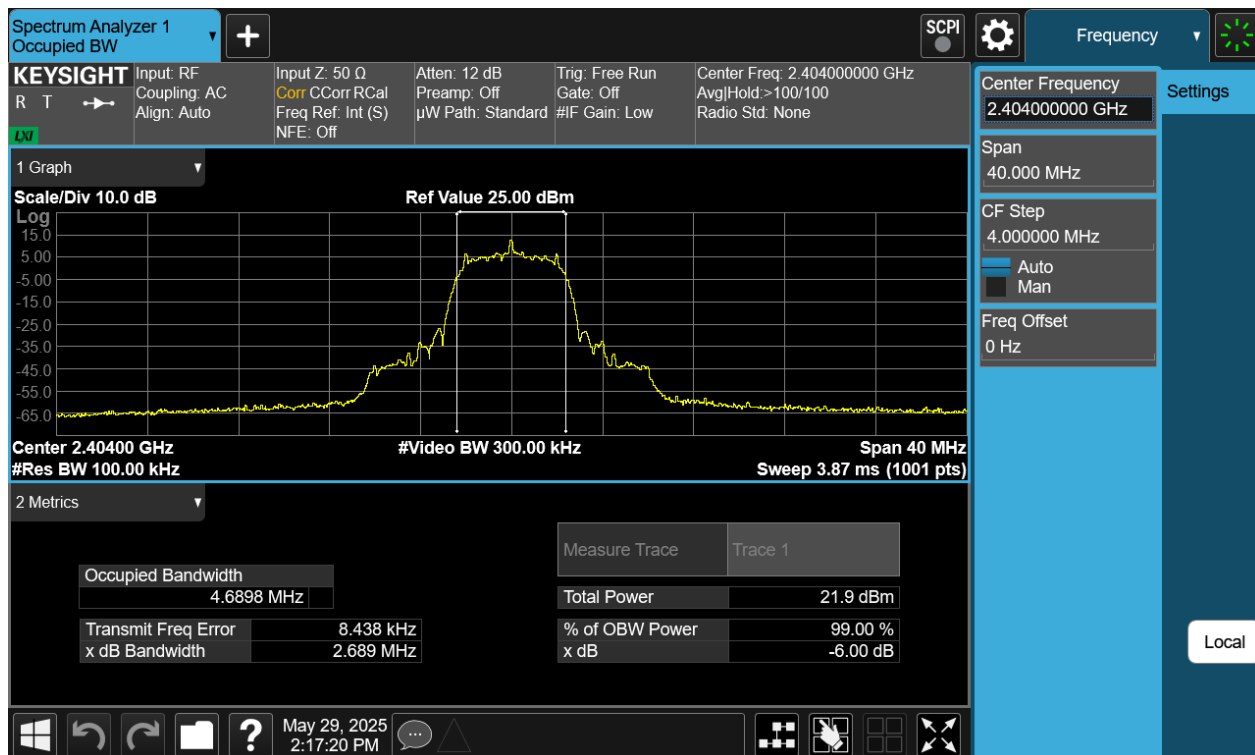
FCC ID: BCGA3357 IC: 579C-A3357		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170038-07-R2.BCG	Test Dates: 05/12/2025 - 09/02/2025	EUT Type: Tablet Device	Page 43 of 305

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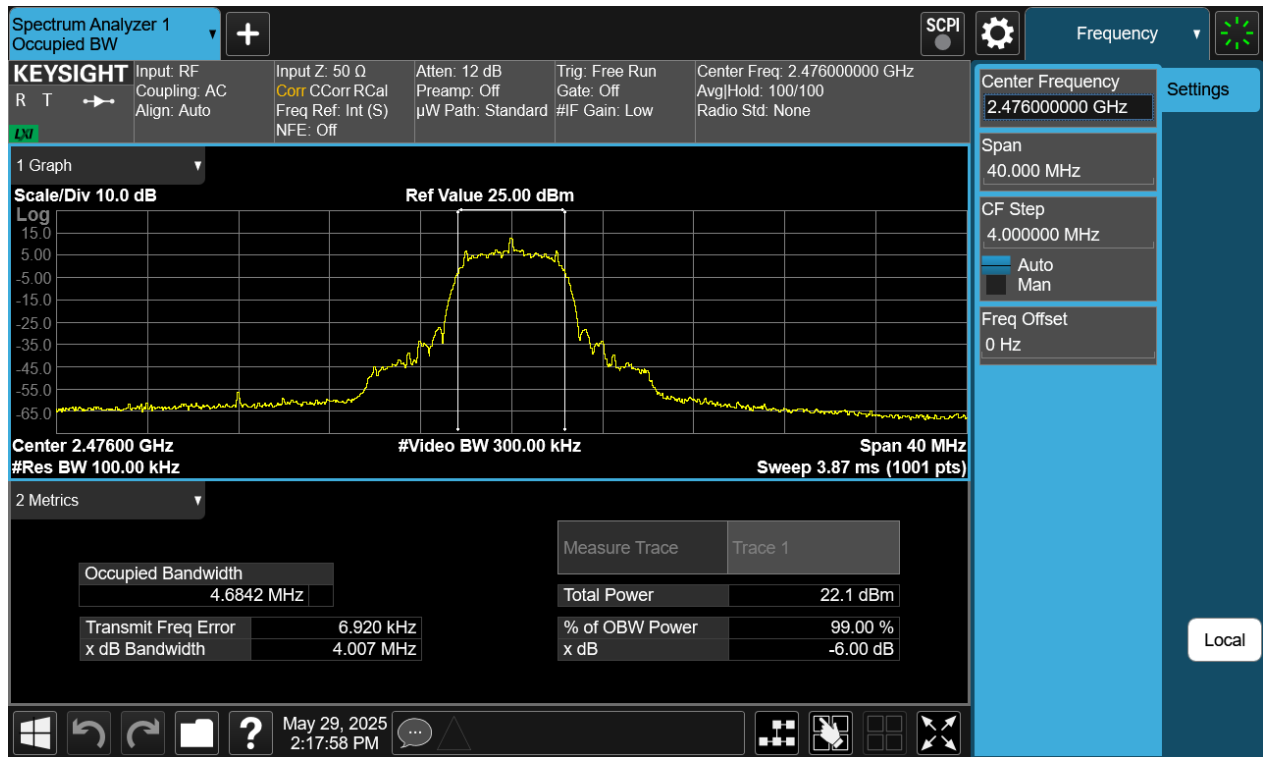
FCC ID: BCGA3357 IC: 579C-A3357		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170038-07-R2.BCG	Test Dates: 05/12/2025 - 09/02/2025	EUT Type: Tablet Device	Page 44 of 305



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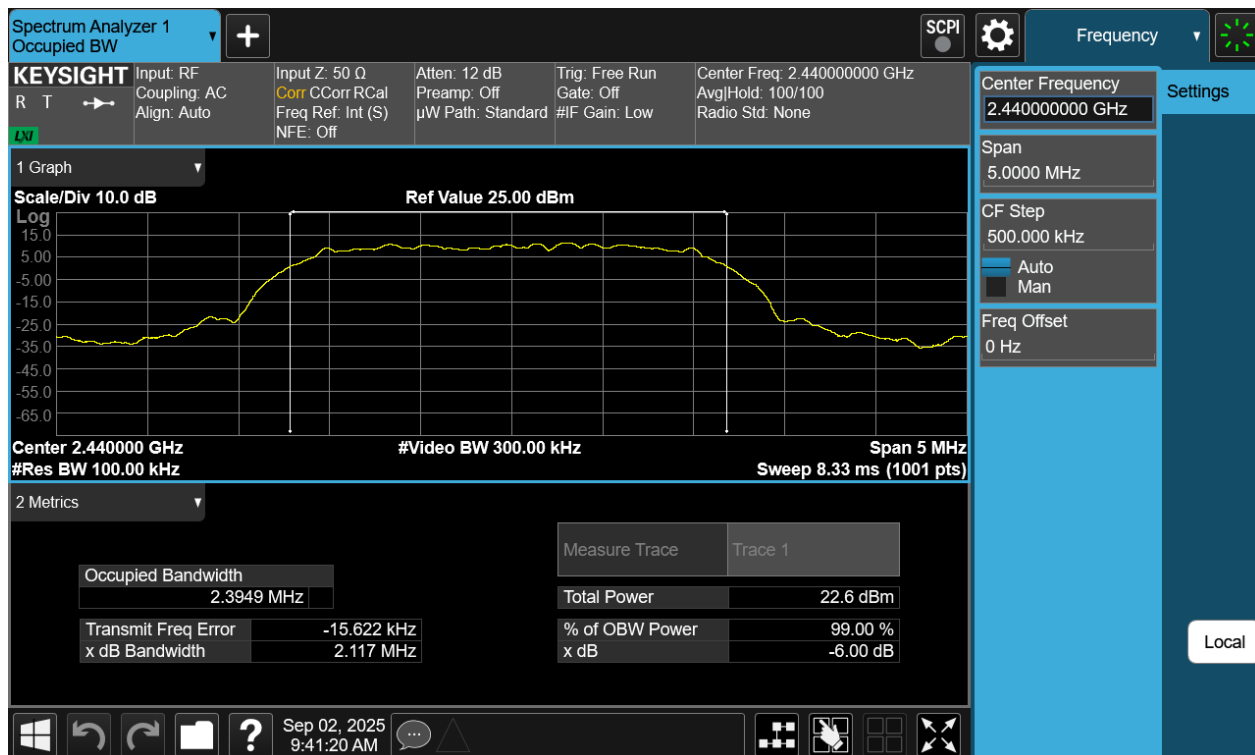


Plot 7-51. 6dB BW & 99% OBW Plot Antenna WF9 (Bluetooth (HDRPM16), 16Mbps, ePA – Ch. 73)

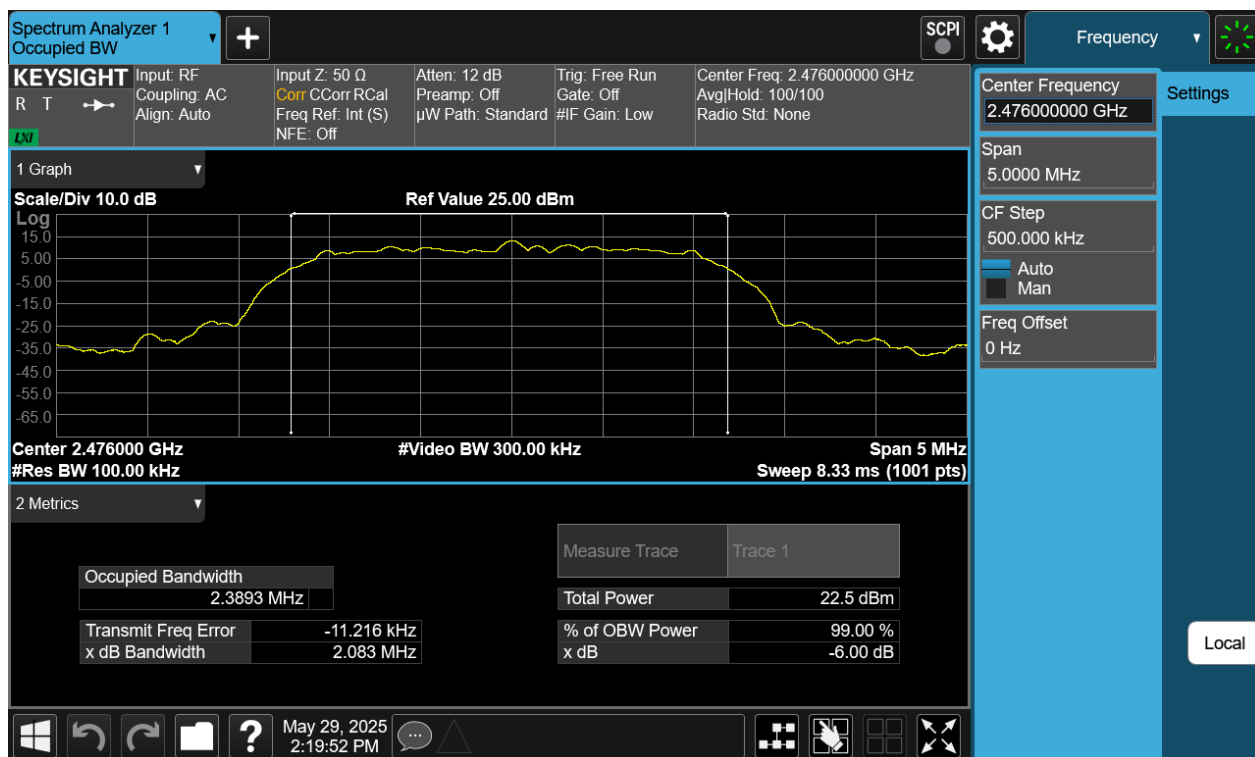


Plot 7-52. 6dB BW & 99% OBW Plot Antenna WF9 (Bluetooth (HDT2), 2Mbps, ePA – Ch. 1)

FCC ID: BCGA3357 IC: 579C-A3357		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)

FCC ID: BCGA3357 IC: 579C-A3357		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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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	16.55	45.186	30.00	-13.45	3.80	20.35	36.02	-15.67
2441	HDR4	ePA	38	16.55	45.186	30.00	-13.45	3.80	20.35	36.02	-15.67
2476	HDR4	ePA	73	16.45	44.157	30.00	-13.55	3.80	20.25	36.02	-15.77
2404	HDR4	iPA	1	8.85	7.674	30.00	-21.15	3.80	12.65	36.02	-23.37
2441	HDR4	iPA	38	8.76	7.516	30.00	-21.24	3.80	12.56	36.02	-23.46
2476	HDR4	iPA	73	8.73	7.464	30.00	-21.27	3.80	12.53	36.02	-23.49
2404	HDR8	ePA	1	17.85	60.954	30.00	-12.15	3.80	21.65	36.02	-14.37
2441	HDR8	ePA	38	18.42	69.502	30.00	-11.58	3.80	22.22	36.02	-13.80
2476	HDR8	ePA	73	17.76	59.704	30.00	-12.24	3.80	21.56	36.02	-14.46
2404	HDR8	iPA	1	9.35	8.610	30.00	-20.65	3.80	13.15	36.02	-22.87
2441	HDR8	iPA	38	9.97	9.931	30.00	-20.03	3.80	13.77	36.02	-22.25
2476	HDR8	iPA	73	9.49	8.892	30.00	-20.51	3.80	13.29	36.02	-22.73
2404	HDRPS2	ePA	1	17.12	51.523	30.00	-12.88	3.80	20.92	36.02	-15.10
2441	HDRPS2	ePA	38	17.16	52.000	30.00	-12.84	3.80	20.96	36.02	-15.06
2476	HDRPS2	ePA	73	17.28	53.456	30.00	-12.72	3.80	21.08	36.02	-14.94
2404	HDRPS2	iPA	1	9.02	7.980	30.00	-20.98	3.80	12.82	36.02	-23.20
2441	HDRPS2	iPA	38	8.71	7.430	30.00	-21.29	3.80	12.51	36.02	-23.51
2476	HDRPS2	iPA	73	9.85	9.661	30.00	-20.15	3.80	13.65	36.02	-22.37
2404	XHDRPM6	ePA	1	17.60	57.544	30.00	-12.40	3.80	21.40	36.02	-14.62
2441	XHDRPM6	ePA	38	17.63	57.943	30.00	-12.37	3.80	21.43	36.02	-14.59
2476	XHDRPM6	ePA	73	17.60	57.544	30.00	-12.40	3.80	21.40	36.02	-14.62
2404	XHDRPM6	iPA	1	9.37	8.650	30.00	-20.64	3.80	13.17	36.02	-22.86
2441	XHDRPM6	iPA	38	9.32	8.551	30.00	-20.68	3.80	13.12	36.02	-22.90
2476	XHDRPM6	iPA	73	9.31	8.531	30.00	-20.69	3.80	13.11	36.02	-22.91
2404	HDRPM16	ePA	1	17.52	56.494	30.00	-12.48	3.80	21.32	36.02	-14.70
2441	HDRPM16	ePA	38	17.54	56.754	30.00	-12.47	3.80	21.34	36.02	-14.69
2476	HDRPM16	ePA	73	17.47	55.847	30.00	-12.53	3.80	21.27	36.02	-14.75
2404	HDRPM16	iPA	1	7.83	6.067	30.00	-22.17	3.80	11.63	36.02	-24.39
2441	HDRPM16	iPA	38	8.14	6.516	30.00	-21.86	3.80	11.94	36.02	-24.08
2476	HDRPM16	iPA	73	8.14	6.516	30.00	-21.86	3.80	11.94	36.02	-24.08
2404	HDT2	ePA	1	17.32	53.951	30.00	-12.68	3.80	21.12	36.02	-14.90
2440	HDT2	ePA	37	17.35	54.325	30.00	-12.65	3.80	21.15	36.02	-14.87
2476	HDT2	ePA	73	17.31	53.827	30.00	-12.69	3.80	21.11	36.02	-14.91
2404	HDT2	iPA	1	8.77	7.534	30.00	-21.23	3.80	12.57	36.02	-23.45
2440	HDT2	iPA	37	9.12	8.166	30.00	-20.89	3.80	12.92	36.02	-23.11
2476	HDT2	iPA	73	9.06	8.054	30.00	-20.94	3.80	12.86	36.02	-23.16

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	16.26	42.267	30.00	-13.74	2.30	18.56	36.02	-17.46
2441	HDR4	ePA	38	16.33	42.954	30.00	-13.67	2.30	18.63	36.02	-17.39
2476	HDR4	ePA	73	16.36	43.251	30.00	-13.64	2.30	18.66	36.02	-17.36
2404	HDR4	iPA	1	8.33	6.808	30.00	-21.67	2.30	10.63	36.02	-25.39
2441	HDR4	iPA	38	8.34	6.823	30.00	-21.66	2.30	10.64	36.02	-25.38
2476	HDR4	iPA	73	7.97	6.266	30.00	-22.03	2.30	10.27	36.02	-25.75
2404	HDR8	ePA	1	16.73	47.098	30.00	-13.27	2.30	19.03	36.02	-16.99
2441	HDR8	ePA	38	16.24	42.073	30.00	-13.76	2.30	18.54	36.02	-17.48
2476	HDR8	ePA	73	16.25	42.170	30.00	-13.75	2.30	18.55	36.02	-17.47
2404	HDR8	iPA	1	8.19	6.592	30.00	-21.81	2.30	10.49	36.02	-25.53
2441	HDR8	iPA	38	8.18	6.577	30.00	-21.82	2.30	10.48	36.02	-25.54
2476	HDR8	iPA	73	7.84	6.081	30.00	-22.16	2.30	10.14	36.02	-25.88
2404	HDRPS2	ePA	1	16.09	40.644	30.00	-13.91	2.30	18.39	36.02	-17.63
2441	HDRPS2	ePA	38	16.57	45.394	30.00	-13.43	2.30	18.87	36.02	-17.15
2476	HDRPS2	ePA	73	17.98	62.806	30.00	-12.02	2.30	20.28	36.02	-15.74
2404	HDRPS2	iPA	1	8.83	7.638	30.00	-21.17	2.30	11.13	36.02	-24.89
2441	HDRPS2	iPA	38	8.15	6.531	30.00	-21.85	2.30	10.45	36.02	-25.57
2476	HDRPS2	iPA	73	8.96	7.870	30.00	-21.04	2.30	11.26	36.02	-24.76
2404	XHDRPM6	ePA	1	17.11	51.404	30.00	-12.89	2.30	19.41	36.02	-16.61
2441	XHDRPM6	ePA	38	17.01	50.234	30.00	-12.99	2.30	19.31	36.02	-16.71
2476	XHDRPM6	ePA	73	16.79	47.753	30.00	-13.21	2.30	19.09	36.02	-16.93
2404	XHDRPM6	iPA	1	8.82	7.621	30.00	-21.18	2.30	11.12	36.02	-24.90
2441	XHDRPM6	iPA	38	9.08	8.091	30.00	-20.92	2.30	11.38	36.02	-24.64
2476	XHDRPM6	iPA	73	8.92	7.798	30.00	-21.08	2.30	11.22	36.02	-24.80
2404	HDRPM16	ePA	1	16.95	49.545	30.00	-13.05	2.30	19.25	36.02	-16.77
2441	HDRPM16	ePA	38	16.94	49.431	30.00	-13.06	2.30	19.24	36.02	-16.78
2476	HDRPM16	ePA	73	16.62	45.920	30.00	-13.38	2.30	18.92	36.02	-17.10
2404	HDRPM16	iPA	1	7.39	5.483	30.00	-22.61	2.30	9.69	36.02	-26.33
2441	HDRPM16	iPA	38	7.44	5.546	30.00	-22.56	2.30	9.74	36.02	-26.28
2476	HDRPM16	iPA	73	7.61	5.768	30.00	-22.39	2.30	9.91	36.02	-26.11
2404	HDT2	ePA	1	16.81	47.973	30.00	-13.19	2.30	19.11	36.02	-16.91
2440	HDT2	ePA	37	16.77	47.534	30.00	-13.23	2.30	19.07	36.02	-16.95
2476	HDT2	ePA	73	16.48	44.463	30.00	-13.52	2.30	18.78	36.02	-17.24
2404	HDT2	iPA	1	8.60	7.244	30.00	-21.40	2.30	10.90	36.02	-25.12
2440	HDT2	iPA	37	8.43	6.966	30.00	-21.57	2.30	10.73	36.02	-25.29
2476	HDT2	iPA	73	8.75	7.499	30.00	-21.25	2.30	11.05	36.02	-24.97

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

FCC ID: BCGA3357 IC: 579C-A3357	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2504170038-07-R2.BCG	Test Dates: 05/12/2025 - 09/02/2025	EUT Type: Tablet Device	Page 49 of 305

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	1.10	17.28	36.02	-18.74
2441	HDR4	ePA	38	16.25	42.170	30.00	-13.76	1.10	17.35	36.02	-18.68
2476	HDR4	ePA	73	16.21	41.783	30.00	-13.79	1.10	17.31	36.02	-18.71
2404	HDR4	IPA	1	8.04	6.368	30.00	-21.96	1.10	9.14	36.02	-26.88
2441	HDR4	IPA	38	8.20	6.607	30.00	-21.80	1.10	9.30	36.02	-26.72
2476	HDR4	IPA	73	8.06	6.397	30.00	-21.94	1.10	9.16	36.02	-26.86
2404	HDR8	ePA	1	15.96	39.446	30.00	-14.04	1.10	17.06	36.02	-18.96
2441	HDR8	ePA	38	16.09	40.644	30.00	-13.91	1.10	17.19	36.02	-18.83
2476	HDR8	ePA	73	16.12	40.926	30.00	-13.88	1.10	17.22	36.02	-18.80
2404	HDR8	IPA	1	8.01	6.324	30.00	-21.99	1.10	9.11	36.02	-26.91
2441	HDR8	IPA	38	8.08	6.427	30.00	-21.92	1.10	9.18	36.02	-26.84
2476	HDR8	IPA	73	7.99	6.295	30.00	-22.01	1.10	9.09	36.02	-26.93
2404	HDRP52	ePA	1	18.28	67.298	30.00	-11.73	1.10	19.38	36.02	-16.65
2441	HDRP52	ePA	38	18.28	67.298	30.00	-11.72	1.10	19.38	36.02	-16.64
2476	HDRP52	ePA	73	17.56	57.016	30.00	-12.44	1.10	18.66	36.02	-17.36
2404	HDRP52	IPA	1	8.88	7.727	30.00	-21.12	1.10	9.98	36.02	-26.04
2441	HDRP52	IPA	38	8.16	6.546	30.00	-21.84	1.10	9.26	36.02	-26.76
2476	HDRP52	IPA	73	8.53	7.129	30.00	-21.48	1.10	9.63	36.02	-26.40
2404	XHDRPM6	ePA	1	16.60	45.709	30.00	-13.40	1.10	17.70	36.02	-18.32
2441	XHDRPM6	ePA	38	15.61	36.392	30.00	-14.40	1.10	16.71	36.02	-19.32
2476	XHDRPM6	ePA	73	17.05	50.699	30.00	-12.95	1.10	18.15	36.02	-17.87
2404	XHDRPM6	IPA	1	9.39	8.690	30.00	-20.61	1.10	10.49	36.02	-25.53
2441	XHDRPM6	IPA	38	7.94	6.223	30.00	-22.06	1.10	9.04	36.02	-26.98
2476	XHDRPM6	IPA	73	8.53	7.129	30.00	-21.47	1.10	9.63	36.02	-26.39
2404	HDRPM16	ePA	1	16.45	44.157	30.00	-13.55	1.10	17.55	36.02	-18.47
2441	HDRPM16	ePA	38	16.48	44.463	30.00	-13.52	1.10	17.58	36.02	-18.44
2476	HDRPM16	ePA	73	16.81	47.973	30.00	-13.19	1.10	17.91	36.02	-18.11
2404	HDRPM16	IPA	1	7.96	6.252	30.00	-22.04	1.10	9.06	36.02	-26.96
2441	HDRPM16	IPA	38	7.41	5.508	30.00	-22.60	1.10	8.51	36.02	-27.52
2476	HDRPM16	IPA	73	7.64	5.808	30.00	-22.36	1.10	8.74	36.02	-27.28
2404	HDT2	ePA	1	16.83	48.195	30.00	-13.17	1.10	17.93	36.02	-18.09
2440	HDT2	ePA	37	16.89	48.865	30.00	-13.11	1.10	17.99	36.02	-18.03
2476	HDT2	ePA	73	16.67	46.452	30.00	-13.33	1.10	17.77	36.02	-18.25
2404	HDT2	IPA	1	9.13	8.185	30.00	-20.87	1.10	10.23	36.02	-25.79
2440	HDT2	IPA	37	8.40	6.918	30.00	-21.60	1.10	9.50	36.02	-26.52
2476	HDT2	IPA	73	8.76	7.516	30.00	-21.25	1.10	9.86	36.02	-26.17

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	17.51	56.364	16.74	47.206	20.15	103.570	29.91	-9.76	6.09	26.24	35.93	-9.69
2441	HDR4	ePA	38	16.92	49.204	16.22	41.879	19.59	91.083	29.91	-10.31	6.09	25.69	35.93	-10.24
2476	HDR4	ePA	73	16.84	48.306	16.27	42.364	19.57	90.670	29.91	-10.33	6.09	25.67	35.93	-10.26
2404	HDR4	IPA	1	8.76	7.516	8.22	6.637	11.51	14.154	29.91	-18.40	6.09	17.60	35.93	-18.33
2441	HDR4	IPA	38	8.66	7.345	8.25	6.683	11.47	14.029	29.91	-18.44	6.09	17.56	35.93	-18.37
2476	HDR4	IPA	73	8.61	7.261	8.41	6.934	11.52	14.195	29.91	-18.39	6.09	17.61	35.93	-18.31
2404	HDR8	ePA	1	16.70	46.774	16.66	46.345	19.69	93.118	29.91	-10.22	6.09	25.78	35.93	-10.14
2441	HDR8	ePA	38	16.73	47.098	16.17	41.400	19.47	88.498	29.91	-10.44	6.09	25.56	35.93	-10.37
2476	HDR8	ePA	73	16.62	45.920	16.15	41.210	19.40	87.130	29.91	-10.51	6.09	25.49	35.93	-10.43
2404	HDR8	IPA	1	8.61	7.261	8.11	6.471	11.38	13.732	29.91	-18.53	6.09	17.47	35.93	-18.46
2441	HDR8	IPA	38	9.05	8.035	8.13	6.501	11.62	14.537	29.91	-18.28	6.09	17.72	35.93	-18.35
2476	HDR8	IPA	73	9.00	7.943	8.27	6.714	11.66	14.658	29.91	-18.25	6.09	17.75	35.93	-18.17
2404	HDRP52	ePA	1	17.02	50.350	16.55	45.186	19.80	95.536	29.91	-10.11	6.09	25.89	35.93	-10.03
2441	HDRP52	ePA	38	17.34	54.200	16.54	45.082	19.97	99.282	29.91	-9.94	6.09	26.06	35.93	-9.87
2476	HDRP52	ePA	73	17.13	51.642	16.71	46.881	19.94	98.523	29.91	-9.97	6.09	26.03	35.93	-9.90
2404	HDRP52	IPA	1	9.37	8.650	8.85	7.674	12.13	16.323	29.91	-17.78	6.09	18.22	35.93	-17.71
2441	HDRP52	IPA	38	8.63	7.295	8.66	7.345	11.66	14.640	29.91	-18.25	6.09	17.75	35.93	-18.18
2476	HDRP52	IPA	73	8.86	7.691	8.49	7.063	11.69	14.754	29.91	-18.22	6.09	17.78	35.93	-18.15
2404	XHDRPM6	ePA	1	17.02	50.350	16.95	49.545	20.00	99.895	29.91	-9.91	6.09	26.09	35.93	-9.84
2441	XHDRPM6	ePA	38	17.22	52.723	16.49	44.566	19.88	97.289	29.91	-10.03	6.09	25.97	35.93	-9.95
2476	XHDRPM6	ePA	73	17.02	50.350	16.74	47.206	19.89	97.556	29.91	-10.01	6.09	25.99	35.93	-9.94
2404	XHDRPM6	IPA	1	9.30	8.511	8.83	7.638	12.08	16.150	29.91	-17.83	6.09	18.17	35.93	-17.75
2441	XHDRPM6	IPA	38	9.70	9.333	8.55	7.161	12.17	16.494	29.91	-17.73	6.09	18.27	35.93	-17.66
2476	XHDRPM6	IPA	73	9.64	9.204	8.87	7.709	12.28	16.914	29.91	-17.63	6.09	18.37	35.93	-17.55
2404	HDRPM16	ePA	1	17.37	54.576	16.89	48.865	20.15	103.441	29.91	-9.76	6.09	26.24	35.93	-9.69
2441	HDRPM16	ePA	38	17.41	55.081	16.86	48.529	20.15	103.610	29.91	-9.75	6.09	26.25	35.93	-9.68
2476	HDRPM16	ePA	73	17.40	54.954	16.53	44.978	20.00	99.932	29.91	-9.91	6.09	26.09	35.93	-9.84
2404	HDRPM16	IPA	1	8.23	6.653	7.33	5.408	10.81	12.060	29.91	-19.09	6.09	16.91	35.93	-19.02
2441	HDRPM16	IPA	38	8.05	6.383	7.91	6.180	10.99	12.563	29.91	-18.92	6.09	17.08	35.93	-18.84
2476	HDRPM16	IPA	73	8.61	7.261	7.55	5.689	11.12	12.950	29.91	-18.78	6.09	17.22	35.93	-18.71
2404	HDT2	ePA	1	17.20	52.481	16.72	46.089	19.66	99.470	29.91	-9.93	6.09	26.07	35.93	-9.86
2440	HDT2	ePA	37	17.22	52.723	16.66	46.345	19.96	99.068	29.91	-9.95	6.09	26.05	35.93	-9.88
2476	HDT2	ePA	73	17.18	52.240	16.94	49.431	20.07	101.671	29.91	-9.84	6.09	26.16	35.93	-9.76
2404	HDT2	IPA	1	9.17	8.260	9.38	8.670	12.29	16.930	29.91	-17.62	6.09	18.38	35.93	-17.55
2440	HDT2	IPA	37	8.99	7.925	8.84	7.656	11.93	15.581	29.91	-17.98	6.09	18.02	35.93	-17.91
2476	HDT2	IPA	73	8.97	7.889	8.70	7.413	11.85	15.302	29.91	-18.06	6.09	17.94	35.93	-17.99

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

FCC ID: BCGA3357 IC: 579C-A3357	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2504170038-07-R2.BCG	Test Dates: 05/12/2025 - 09/02/2025	EUT Type: Tablet Device	Page 50 of 305

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	17.51	56.364	16.10	40.738	19.87	97.102	30.00	-10.13	5.56	25.44	36.02	-10.58
2441	HDR4	ePA	38	16.92	49.204	16.17	41.400	19.57	90.604	30.00	-10.43	5.56	25.14	36.02	-10.88
2476	HDR4	ePA	73	16.84	48.306	16.12	40.926	19.51	89.232	30.00	-10.49	5.56	25.07	36.02	-10.95
2404	HDR4	iPA	1	8.76	7.516	8.00	6.310	11.41	13.826	30.00	-18.59	5.56	16.97	36.02	-19.05
2441	HDR4	iPA	38	8.66	7.345	8.14	6.516	11.42	13.861	30.00	-18.58	5.56	16.98	36.02	-19.04
2476	HDR4	iPA	73	8.61	7.261	8.04	6.368	11.34	13.629	30.00	-18.66	5.56	16.91	36.02	-19.11
2404	HDR8	ePA	1	16.70	46.774	17.47	55.847	20.11	102.621	30.00	-9.89	5.56	25.68	36.02	-10.34
2441	HDR8	ePA	38	16.73	47.098	17.02	50.350	19.89	97.448	30.00	-10.11	5.56	25.45	36.02	-10.57
2476	HDR8	ePA	73	16.62	45.920	17.07	50.933	19.86	96.853	30.00	-10.14	5.56	25.43	36.02	-10.59
2404	HDR8	iPA	1	8.61	7.261	8.96	7.870	11.80	15.132	30.00	-18.20	5.56	17.36	36.02	-18.66
2441	HDR8	iPA	38	9.05	8.036	9.56	9.036	12.32	17.072	30.00	-17.68	5.56	17.89	36.02	-18.13
2476	HDR8	iPA	73	9.00	7.943	8.90	7.762	11.06	15.706	30.00	-18.04	5.56	17.53	36.02	-18.50
2404	HDRP52	ePA	1	17.02	50.350	16.39	43.551	19.73	93.901	30.00	-10.27	5.56	25.29	36.02	-10.73
2441	HDRP52	ePA	38	17.34	54.200	16.46	44.259	19.93	98.459	30.00	-10.07	5.56	25.50	36.02	-10.52
2476	HDRP52	ePA	73	17.13	51.642	16.47	44.361	19.82	96.003	30.00	-10.18	5.56	25.39	36.02	-10.63
2404	HDRP52	iPA	1	9.37	8.650	8.86	7.691	12.13	16.341	30.00	-17.87	5.56	17.70	36.02	-18.32
2441	HDRP52	iPA	38	8.63	7.295	8.42	6.950	11.54	14.245	30.00	-18.46	5.56	17.10	36.02	-18.92
2476	HDRP52	iPA	73	8.86	7.691	8.36	6.855	11.63	14.546	30.00	-18.37	5.56	17.19	36.02	-18.83
2404	XHDRPM6	ePA	1	17.02	50.350	16.88	48.753	19.96	99.103	30.00	-10.04	5.56	25.53	36.02	-10.49
2441	XHDRPM6	ePA	38	17.22	52.723	16.98	49.888	20.11	102.611	30.00	-9.89	5.56	25.68	36.02	-10.34
2476	XHDRPM6	ePA	73	17.02	50.350	17.03	50.466	20.04	100.816	30.00	-9.96	5.56	25.60	36.02	-10.42
2404	XHDRPM6	iPA	1	9.30	8.511	8.80	7.586	12.07	16.097	30.00	-17.93	5.56	17.63	36.02	-18.39
2441	XHDRPM6	iPA	38	9.70	9.333	8.86	7.691	12.31	17.024	30.00	-17.69	5.56	17.88	36.02	-18.15
2476	XHDRPM6	iPA	73	9.64	9.204	8.81	7.603	12.26	16.808	30.00	-17.74	5.56	17.82	36.02	-18.20
2404	HDRPM16	ePA	1	17.37	54.576	16.69	46.666	20.05	101.242	30.00	-9.95	5.56	25.62	36.02	-10.40
2441	HDRPM16	ePA	38	17.41	55.081	16.76	47.424	20.11	102.505	30.00	-9.89	5.56	25.67	36.02	-10.35
2476	HDRPM16	ePA	73	17.40	54.954	16.78	47.643	20.11	102.597	30.00	-9.89	5.56	25.68	36.02	-10.34
2404	HDRPM16	iPA	1	8.23	6.653	8.14	6.516	11.20	13.169	30.00	-18.80	5.56	16.76	36.02	-19.26
2441	HDRPM16	iPA	38	8.05	6.383	7.67	5.848	10.87	12.231	30.00	-19.13	5.56	16.44	36.02	-19.58
2476	HDRPM16	iPA	73	8.61	7.261	7.65	5.821	11.17	13.082	30.00	-18.83	5.56	16.73	36.02	-19.29
2404	HDT2	ePA	1	17.20	52.481	16.57	45.394	19.91	97.875	30.00	-10.09	5.56	25.47	36.02	-10.55
2440	HDT2	ePA	37	17.22	52.723	16.62	45.920	19.94	98.643	30.00	-10.06	5.56	25.51	36.02	-10.52
2476	HDT2	ePA	73	17.18	52.240	16.63	46.026	19.92	98.265	30.00	-10.08	5.56	25.49	36.02	-10.53
2404	HDT2	iPA	1	9.17	8.260	8.63	7.295	11.92	15.555	30.00	-18.08	5.56	17.48	36.02	-18.54
2440	HDT2	iPA	37	8.99	7.925	8.62	7.278	11.82	15.203	30.00	-18.18	5.56	17.38	36.02	-18.64
2476	HDT2	iPA	73	8.97	7.889	8.54	7.145	11.77	15.034	30.00	-18.23	5.56	17.34	36.02	-18.69

Table 7-9. Peak Conducted Output Power Measurements Tx/BF Diversity (Bluetooth HDR)

FCC ID: BCGA3357 IC: 579C-A3357	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2504170038-07-R2.BCG	Test Dates: 05/12/2025 - 09/02/2025	EUT Type: Tablet Device	Page 51 of 305

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]
				[dBm]	[mW]						
2404	HDR4	ePA	1	14.12	25.823	30.00	-15.88	3.80	17.92	36.02	-18.10
2441	HDR4	ePA	38	14.13	25.882	30.00	-15.87	3.80	17.93	36.02	-18.09
2476	HDR4	ePA	73	14.06	25.468	30.00	-15.94	3.80	17.86	36.02	-18.16
2404	HDR4	iPA	1	6.31	4.276	30.00	-23.69	3.80	10.11	36.02	-25.91
2441	HDR4	iPA	38	6.31	4.276	30.00	-23.69	3.80	10.11	36.02	-25.91
2476	HDR4	iPA	73	6.27	4.236	30.00	-23.73	3.80	10.07	36.02	-25.95
2404	HDR8	ePA	1	14.05	25.410	30.00	-15.95	3.80	17.85	36.02	-18.17
2441	HDR8	ePA	38	13.92	24.660	30.00	-16.08	3.80	17.72	36.02	-18.30
2476	HDR8	ePA	73	14.32	27.040	30.00	-15.68	3.80	18.12	36.02	-17.90
2404	HDR8	iPA	1	6.19	4.159	30.00	-23.81	3.80	9.99	36.02	-26.03
2441	HDR8	iPA	38	5.94	3.926	30.00	-24.06	3.80	9.74	36.02	-26.28
2476	HDR8	iPA	73	6.30	4.266	30.00	-23.70	3.80	10.10	36.02	-25.92
2404	HDRPS2	ePA	1	14.24	26.546	30.00	-15.76	3.80	18.04	36.02	-17.98
2441	HDRPS2	ePA	38	14.35	27.227	30.00	-15.65	3.80	18.15	36.02	-17.87
2476	HDRPS2	ePA	73	14.25	26.607	30.00	-15.76	3.80	18.05	36.02	-17.98
2404	HDRPS2	iPA	1	6.42	4.385	30.00	-23.58	3.80	10.22	36.02	-25.80
2441	HDRPS2	iPA	38	5.86	3.855	30.00	-24.14	3.80	9.66	36.02	-26.36
2476	HDRPS2	iPA	73	5.82	3.819	30.00	-24.18	3.80	9.62	36.02	-26.40
2404	XHDRPM6	ePA	1	14.18	26.182	30.00	-15.83	3.80	17.98	36.02	-18.05
2441	XHDRPM6	ePA	38	14.23	26.485	30.00	-15.77	3.80	18.03	36.02	-17.99
2476	XHDRPM6	ePA	73	14.20	26.303	30.00	-15.80	3.80	18.00	36.02	-18.02
2404	XHDRPM6	iPA	1	6.32	4.285	30.00	-23.68	3.80	10.12	36.02	-25.90
2441	XHDRPM6	iPA	38	6.06	4.036	30.00	-23.94	3.80	9.86	36.02	-26.16
2476	XHDRPM6	iPA	73	6.09	4.064	30.00	-23.92	3.80	9.89	36.02	-26.14
2404	HDRPM16	ePA	1	12.45	17.579	30.00	-17.55	3.80	16.25	36.02	-19.77
2441	HDRPM16	ePA	38	12.10	16.218	30.00	-17.90	3.80	15.90	36.02	-20.12
2476	HDRPM16	ePA	73	12.47	17.660	30.00	-17.53	3.80	16.27	36.02	-19.75
2404	HDRPM16	iPA	1	3.16	2.070	30.00	-26.84	3.80	6.96	36.02	-29.06
2441	HDRPM16	iPA	38	2.98	1.986	30.00	-27.02	3.80	6.78	36.02	-29.24
2476	HDRPM16	iPA	73	3.00	1.995	30.00	-27.00	3.80	6.80	36.02	-29.22
2404	HDT2	ePA	1	14.31	26.977	30.00	-15.69	3.80	18.11	36.02	-17.91
2440	HDT2	ePA	37	14.35	27.227	30.00	-15.65	3.80	18.15	36.02	-17.87
2476	HDT2	ePA	73	14.32	27.040	30.00	-15.68	3.80	18.12	36.02	-17.90
2404	HDT2	iPA	1	6.04	4.018	30.00	-23.96	3.80	9.84	36.02	-26.18
2440	HDT2	iPA	37	6.28	4.246	30.00	-23.72	3.80	10.08	36.02	-25.94
2476	HDT2	iPA	73	6.29	4.256	30.00	-23.71	3.80	10.09	36.02	-25.93

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]
				[dBm]	[mW]						
2404	HDR4	ePA	1	13.85	24.266	30.00	-16.15	2.30	16.15	36.02	-19.87
2441	HDR4	ePA	38	13.94	24.774	30.00	-16.06	2.30	16.24	36.02	-19.78
2476	HDR4	ePA	73	13.99	25.061	30.00	-16.01	2.30	16.29	36.02	-19.73
2404	HDR4	iPA	1	5.86	3.855	30.00	-24.14	2.30	8.16	36.02	-27.86
2441	HDR4	iPA	38	5.82	3.819	30.00	-24.18	2.30	8.12	36.02	-27.90
2476	HDR4	iPA	73	5.33	3.412	30.00	-24.67	2.30	7.63	36.02	-28.39
2404	HDR8	ePA	1	13.26	21.184	30.00	-16.74	2.30	15.56	36.02	-20.46
2441	HDR8	ePA	38	13.79	23.933	30.00	-16.22	2.30	16.09	36.02	-19.94
2476	HDR8	ePA	73	13.82	24.099	30.00	-16.18	2.30	16.12	36.02	-19.90
2404	HDR8	iPA	1	5.74	3.750	30.00	-24.26	2.30	8.04	36.02	-27.98
2441	HDR8	iPA	38	5.72	3.733	30.00	-24.29	2.30	8.02	36.02	-28.01
2476	HDR8	iPA	73	5.48	3.532	30.00	-24.52	2.30	7.78	36.02	-28.24
2404	HDRPS2	ePA	1	13.26	21.184	30.00	-16.74	2.30	15.56	36.02	-20.46
2441	HDRPS2	ePA	38	13.79	23.933	30.00	-16.21	2.30	16.09	36.02	-19.93
2476	HDRPS2	ePA	73	13.83	24.155	30.00	-16.17	2.30	16.13	36.02	-19.89
2404	HDRPS2	iPA	1	5.61	3.639	30.00	-24.39	2.30	7.91	36.02	-28.11
2441	HDRPS2	iPA	38	5.53	3.573	30.00	-24.47	2.30	7.83	36.02	-28.19
2476	HDRPS2	iPA	73	5.71	3.724	30.00	-24.29	2.30	8.01	36.02	-28.01
2404	XHDRPM6	ePA	1	13.71	23.496	30.00	-16.29	2.30	16.01	36.02	-20.01
2441	XHDRPM6	ePA	38	13.69	23.388	30.00	-16.31	2.30	15.99	36.02	-20.03
2476	XHDRPM6	ePA	73	13.38	21.777	30.00	-16.62	2.30	15.68	36.02	-20.34
2404	XHDRPM6	iPA	1	5.64	3.664	30.00	-24.36	2.30	7.94	36.02	-28.08
2441	XHDRPM6	iPA	38	5.90	3.890	30.00	-24.10	2.30	8.20	36.02	-27.82
2476	XHDRPM6	iPA	73	5.51	3.556	30.00	-24.49	2.30	7.81	36.02	-28.21
2404	HDRPM16	ePA	1	11.96	15.704	30.00	-18.04	2.30	14.26	36.02	-21.76
2441	HDRPM16	ePA	38	11.80	15.136	30.00	-18.20	2.30	14.10	36.02	-21.92
2476	HDRPM16	ePA	73	11.53	14.223	30.00	-18.47	2.30	13.83	36.02	-22.19
2404	HDRPM16	iPA	1	2.57	1.807	30.00	-27.43	2.30	4.87	36.02	-31.15
2441	HDRPM16	iPA	38	2.82	1.914	30.00	-27.18	2.30	5.12	36.02	-30.90
2476	HDRPM16	iPA	73	2.81	1.910	30.00	-27.20	2.30	5.11	36.02	-30.92
2404	HDT2	ePA	1	13.83	24.155	30.00	-16.17	2.30	16.13	36.02	-19.89
2440	HDT2	ePA	37	13.75	23.714	30.00	-16.26	2.30	16.05	36.02	-19.98
2476	HDT2	ePA	73	13.53	22.542	30.00	-16.48	2.30	15.83	36.02	-20.20
2404	HDT2	iPA	1	5.48	3.532	30.00	-24.52	2.30	7.78	36.02	-28.24
2440	HDT2	iPA	37	5.62	3.648	30.00	-24.38	2.30	7.92	36.02	-28.10
2476	HDT2	iPA	73	5.79	3.793	30.00	-24.22	2.30	8.09	36.02	-27.94

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

FCC ID: BCGA3357 IC: 579C-A3357	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2504170038-07-R2.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]
				[dBm]	[mW]						
2404	HDR4	ePA	1	13.19	20.845	30.00	-16.81	1.10	14.29	36.02	-21.73
2441	HDR4	ePA	38	13.90	24.547	30.00	-16.10	1.10	15.00	36.02	-21.02
2476	HDR4	ePA	73	13.86	24.322	30.00	-16.14	1.10	14.96	36.02	-21.06
2404	HDR4	IPA	1	5.44	3.499	30.00	-24.56	1.10	6.54	36.02	-29.48
2441	HDR4	IPA	38	5.76	3.767	30.00	-24.24	1.10	6.86	36.02	-29.16
2476	HDR4	IPA	73	5.48	3.532	30.00	-24.52	1.10	6.58	36.02	-29.44
2404	HDR8	ePA	1	13.50	22.387	30.00	-16.50	1.10	14.60	36.02	-21.42
2441	HDR8	ePA	38	13.44	22.080	30.00	-16.57	1.10	14.54	36.02	-21.49
2476	HDR8	ePA	73	13.26	21.184	30.00	-16.74	1.10	14.36	36.02	-21.66
2404	HDR8	IPA	1	5.32	3.404	30.00	-24.68	1.10	6.42	36.02	-29.60
2441	HDR8	IPA	38	5.17	3.289	30.00	-24.83	1.10	6.27	36.02	-29.75
2476	HDR8	IPA	73	5.61	3.639	30.00	-24.39	1.10	6.71	36.02	-29.31
2404	HDRP52	ePA	1	13.98	25.003	30.00	-16.02	1.10	15.08	36.02	-20.94
2441	HDRP52	ePA	38	14.00	25.119	30.00	-16.00	1.10	15.10	36.02	-20.92
2476	HDRP52	ePA	73	13.29	21.330	30.00	-16.71	1.10	14.39	36.02	-21.63
2404	HDRP52	IPA	1	5.95	3.936	30.00	-24.05	1.10	7.05	36.02	-28.97
2441	HDRP52	IPA	38	5.49	3.540	30.00	-24.51	1.10	6.59	36.02	-29.43
2476	HDRP52	IPA	73	5.61	3.639	30.00	-24.39	1.10	6.71	36.02	-29.31
2404	XHDRPM6	ePA	1	13.26	21.184	30.00	-16.74	1.10	14.36	36.02	-21.66
2441	XHDRPM6	ePA	38	13.07	20.277	30.00	-16.93	1.10	14.17	36.02	-21.85
2476	XHDRPM6	ePA	73	13.60	22.909	30.00	-16.40	1.10	14.70	36.02	-21.32
2404	XHDRPM6	IPA	1	5.83	3.828	30.00	-24.17	1.10	6.93	36.02	-29.09
2441	XHDRPM6	IPA	38	5.48	3.532	30.00	-24.52	1.10	6.58	36.02	-29.44
2476	XHDRPM6	IPA	73	5.23	3.334	30.00	-24.77	1.10	6.33	36.02	-29.69
2404	HDRPM16	ePA	1	11.53	14.223	30.00	-18.47	1.10	12.63	36.02	-23.39
2441	HDRPM16	ePA	38	11.33	13.583	30.00	-18.68	1.10	12.43	36.02	-23.60
2476	HDRPM16	ePA	73	11.49	14.093	30.00	-18.51	1.10	12.59	36.02	-23.43
2404	HDRPM16	IPA	1	2.80	1.905	30.00	-27.20	1.10	3.90	36.02	-32.12
2441	HDRPM16	IPA	38	2.43	1.750	30.00	-27.57	1.10	3.53	36.02	-32.49
2476	HDRPM16	IPA	73	2.83	1.919	30.00	-27.17	1.10	3.93	36.02	-32.09
2404	HDT2	ePA	1	13.87	24.378	30.00	-16.14	1.10	14.97	36.02	-21.06
2440	HDT2	ePA	37	13.90	24.547	30.00	-16.10	1.10	15.00	36.02	-21.02
2476	HDT2	ePA	73	13.71	23.496	30.00	-16.29	1.10	14.81	36.02	-21.21
2404	HDT2	IPA	1	6.00	3.981	30.00	-24.00	1.10	7.10	36.02	-28.92
2440	HDT2	IPA	37	5.60	3.631	30.00	-24.40	1.10	6.70	36.02	-29.32
2476	HDT2	IPA	73	5.73	3.741	30.00	-24.27	1.10	6.83	36.02	-29.19

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]	EIRP [dBm]	EIRP Limit [dBm]	EIRP Margin [dB]
				Antenna WF8		Antenna WF7		Summed									
				[dBm]	[mW]	[dBm]	[mW]	[dBm]	[mW]								
2404	HDR4	ePA	1	14.36	27.290	13.85	24.266	17.12	51.556	29.91	-12.78	6.09	23.22	35.93	-12.71		
2441	HDR4	ePA	38	13.98	25.003	13.42	21.979	16.72	46.982	29.91	-13.19	6.09	22.81	35.93	-13.12		
2476	HDR4	ePA	73	14.45	27.861	13.90	24.547	17.19	52.408	29.91	-12.71	6.09	23.29	35.93	-12.64		
2404	HDR4	IPA	1	6.40	4.365	5.78	3.784	9.11	8.150	29.91	-20.80	6.09	15.20	35.93	-20.72		
2441	HDR4	IPA	38	6.08	4.055	5.75	3.758	8.93	7.813	29.91	-20.98	6.09	15.02	35.93	-20.91		
2476	HDR4	IPA	73	6.11	4.083	5.93	3.917	9.03	8.001	29.91	-20.88	6.09	15.12	35.93	-20.80		
2404	HDR8	ePA	1	14.17	26.122	13.86	24.322	17.03	50.444	29.91	-12.88	6.09	23.12	35.93	-12.81		
2441	HDR8	ePA	38	14.24	26.546	13.70	23.442	16.99	49.988	29.91	-12.92	6.09	23.08	35.93	-12.85		
2476	HDR8	ePA	73	14.15	26.002	13.74	23.659	16.96	49.661	29.91	-12.95	6.09	23.05	35.93	-12.88		
2404	HDR8	IPA	1	6.35	4.315	5.66	3.681	9.03	7.996	29.91	-20.88	6.09	15.12	35.93	-20.81		
2441	HDR8	IPA	38	6.35	4.315	5.63	3.656	9.02	7.971	29.91	-20.89	6.09	15.11	35.93	-20.82		
2476	HDR8	IPA	73	6.43	4.395	5.94	3.926	9.20	8.322	29.91	-20.71	6.09	15.29	35.93	-20.63		
2404	HDRP52	ePA	1	14.19	26.242	13.30	21.380	16.78	47.622	29.91	-13.13	6.09	22.87	35.93	-13.06		
2441	HDRP52	ePA	38	14.05	25.410	13.73	23.605	16.90	49.015	29.91	-13.00	6.09	23.00	35.93	-12.93		
2476	HDRP52	ePA	73	14.15	26.002	13.92	24.660	17.05	50.662	29.91	-12.86	6.09	23.14	35.93	-12.79		
2404	HDRP52	IPA	1	5.98	3.963	5.79	3.793	8.90	7.756	29.91	-21.01	6.09	14.99	35.93	-20.94		
2441	HDRP52	IPA	38	5.98	3.963	5.95	3.936	8.98	7.898	29.91	-20.93	6.09	15.07	35.93	-20.86		
2476	HDRP52	IPA	73	5.93	3.917	5.61	3.639	8.78	7.557	29.91	-21.12	6.09	14.88	35.93	-21.05		
2404	XHDRPM6	ePA	1	13.60	22.909	13.64	23.121	16.63	46.029	29.91	-13.28	6.09	22.72	35.93	-13.20		
2441	XHDRPM6	ePA	38	13.81	24.044	13.11	20.464	16.48	44.508	29.91	-13.42	6.09	22.58	35.93	-13.35		
2476	XHDRPM6	ePA	73	14.40	27.542	13.31	21.429	16.90	48.971	29.91	-13.01	6.09	22.99	35.93	-12.94		
2404	XHDRPM6	IPA	1	6.32	4.285	5.36	3.436	8.88	7.721	29.91	-21.03	6.09	14.97	35.93	-20.96		
2441	XHDRPM6	IPA	38	6.47	4.436	5.36	3.436	8.96	7.872	29.91	-20.95	6.09	15.05	35.93	-20.87		
2476	XHDRPM6	IPA	73	6.50	4.467	5.45	3.508	9.02	7.974	29.91	-20.89	6.09	15.11	35.93	-20.82		
2404	HDRPM16	ePA	1	12.33	17.100	11.84	15.276	15.10	32.376	29.91	-14.81	6.09	21.19	35.93	-14.73		
2441	HDRPM16	ePA	38	12.40	17.378	11.94	15.631	15.19	33.009	29.91	-14.72	6.09	21.28	35.93	-14.65		
2476	HDRPM16	ePA	73	11.97	15.740	11.50	14.125	14.75	29.865	29.91	-15.16	6.09	20.84	35.93	-15.08		
2404	HDRPM16	IPA	1	3.15	2.065	2.51	1.782	5.85	3.848	29.91	-24.06	6.09	11.94	35.93	-23.98		
2441	HDRPM16	IPA	38	3.26	2.118	2.88	1.941	6.08	4.059	29.91	-23.82	6.09	12.18	35.93	-23.75		
2476	HDRPM16	IPA	73	3.49	2.234	2.74	1.879	6.14	4.113	29.91	-23.77	6.09	12.23	35.93	-23.69		
2404	HDT2	ePA	1	14.21	26.363	13.76	23.768	17.00	50.132	29.91	-12.91	6.09	23.09	35.93	-12.83		
2440	HDT2	ePA	37	14.23	26.485	13.69	23.388	16.98	49.873	29.91	-12.93	6.09	23.07	35.93	-12.86		
2476	HDT2	ePA	73	14.19	26.242	13.97	24.946	17.09	51.188	29.91	-12.82	6.09	23.18	35.93	-12.74		
2404	HDT2	IPA	1	6.43	4.395	5.95	3.936	9.21	8.331	29.91	-20.70	6.09	15.30	35.93	-20.63		
2440	HDT2	IPA	37	6.15	4.121	6.00	3.981	9.09	8.102	29.91	-20.82	6.09	15.18	35.93	-20.75		
2476	HDT2	IPA	73	6.17	4.140	5.70	3.715	8.95	7.855	29.91	-20.96	6.09	15.04	35.93	-20.88		

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

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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	14.36	27.290	13.71	23.496	17.06	50.786	30.00	-12.94	5.56	22.62	36.02	-13.40
2441	HDR4	ePA	38	13.98	25.003	13.80	23.988	16.90	48.992	30.00	-13.10	5.56	22.47	36.02	-13.55
2476	HDR4	ePA	73	14.45	27.861	13.63	23.067	17.07	50.929	30.00	-12.93	5.56	22.63	36.02	-13.39
2404	HDR4	iPA	1	6.40	4.365	5.51	3.556	8.99	7.921	30.00	-21.01	5.56	14.55	36.02	-21.47
2441	HDR4	iPA	38	6.08	4.055	5.69	3.707	8.90	7.762	30.00	-21.10	5.56	14.46	36.02	-21.56
2476	HDR4	iPA	73	6.11	4.083	5.41	3.475	8.78	7.559	30.00	-21.22	5.56	14.35	36.02	-21.67
2404	HDR8	ePA	1	14.17	26.122	13.46	22.182	16.84	48.304	30.00	-13.16	5.56	22.40	36.02	-13.62
2441	HDR8	ePA	38	14.24	26.546	13.64	23.121	16.96	49.667	30.00	-13.04	5.56	22.53	36.02	-13.50
2476	HDR8	ePA	73	14.15	26.002	13.70	23.442	16.94	49.444	30.00	-13.06	5.56	22.51	36.02	-13.51
2404	HDR8	iPA	1	6.35	4.315	5.68	3.698	9.04	8.013	30.00	-20.96	5.56	14.60	36.02	-21.42
2441	HDR8	iPA	38	6.35	4.315	5.79	3.793	9.09	8.108	30.00	-20.91	5.56	14.65	36.02	-21.37
2476	HDR8	iPA	73	6.43	4.396	5.63	3.656	9.06	8.051	30.00	-20.94	5.56	14.62	36.02	-21.40
2404	HDRP52	ePA	1	14.19	26.242	13.61	22.961	16.92	49.204	30.00	-13.08	5.56	22.48	36.02	-13.54
2441	HDRP52	ePA	38	14.05	25.410	13.71	23.496	16.89	48.906	30.00	-13.11	5.56	22.46	36.02	-13.56
2476	HDRP52	ePA	73	14.15	26.002	13.73	23.605	16.96	49.606	30.00	-13.04	5.56	22.52	36.02	-13.50
2404	HDRP52	iPA	1	5.98	3.963	5.74	3.750	8.87	7.713	30.00	-21.13	5.56	14.44	36.02	-21.58
2441	HDRP52	iPA	38	5.98	3.963	5.39	3.459	8.71	7.422	30.00	-21.29	5.56	14.27	36.02	-21.75
2476	HDRP52	iPA	73	5.93	3.917	5.64	3.664	8.80	7.582	30.00	-21.20	5.56	14.36	36.02	-21.66
2404	XHDRPM6	ePA	1	13.60	22.909	13.49	22.336	16.56	45.244	30.00	-13.44	5.56	22.12	36.02	-13.90
2441	XHDRPM6	ePA	38	13.81	24.044	13.60	22.909	16.72	46.952	30.00	-13.28	5.56	22.28	36.02	-13.74
2476	XHDRPM6	ePA	73	14.40	27.542	13.60	22.909	17.03	50.451	30.00	-12.97	5.56	22.59	36.02	-13.43
2404	XHDRPM6	iPA	1	6.32	4.285	5.97	3.954	9.16	8.239	30.00	-20.84	5.56	14.72	36.02	-21.30
2441	XHDRPM6	iPA	38	6.47	4.436	5.58	3.614	9.06	8.050	30.00	-20.94	5.56	14.62	36.02	-21.40
2476	XHDRPM6	iPA	73	6.50	4.467	5.54	3.581	9.06	8.048	30.00	-20.94	5.56	14.62	36.02	-21.40
2404	HDRPM16	ePA	1	12.33	17.100	11.79	15.101	15.08	32.201	30.00	-14.92	5.56	20.64	36.02	-15.38
2441	HDRPM16	ePA	38	12.40	17.378	11.87	15.382	15.15	32.760	30.00	-14.85	5.56	20.72	36.02	-15.30
2476	HDRPM16	ePA	73	11.97	15.740	11.90	15.488	14.95	31.228	30.00	-15.05	5.56	20.51	36.02	-15.51
2404	HDRPM16	iPA	1	3.15	2.065	2.94	1.968	6.06	4.033	30.00	-23.94	5.56	11.62	36.02	-24.40
2441	HDRPM16	iPA	38	3.26	2.118	2.95	1.972	6.12	4.091	30.00	-23.88	5.56	11.68	36.02	-24.34
2476	HDRPM16	iPA	73	3.49	2.234	2.53	1.791	6.05	4.024	30.00	-23.95	5.56	11.61	36.02	-24.41
2404	HDT2	ePA	1	14.21	26.363	13.59	22.856	16.92	49.219	30.00	-13.08	5.56	22.49	36.02	-13.53
2440	HDT2	ePA	37	14.23	26.485	13.66	23.227	16.96	49.712	30.00	-13.04	5.56	22.53	36.02	-13.49
2476	HDT2	ePA	73	14.19	26.242	13.68	23.335	16.95	49.577	30.00	-13.05	5.56	22.52	36.02	-13.50
2404	HDT2	iPA	1	6.43	4.395	5.65	3.673	9.07	8.068	30.00	-20.93	5.56	14.63	36.02	-21.39
2440	HDT2	iPA	37	6.15	4.121	5.78	3.784	8.98	7.905	30.00	-21.02	5.56	14.54	36.02	-21.48
2476	HDT2	iPA	73	6.17	4.140	5.74	3.750	8.97	7.890	30.00	-21.03	5.56	14.54	36.02	-21.49

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 14.36 dBm for Antenna WF8 and 13.85 dBm for Antenna WF7.

$$\text{Antenna WF8} + \text{Antenna WF7} = \text{TxBF}$$

$$(14.36 \text{ dBm} + 13.85 \text{ dBm}) = (27.290 \text{ mW} + 24.266 \text{ mW}) = 51.566 \text{ mW} = 17.12 \text{ dBm}$$

Sample e.i.r.p. Calculation:

At 2404MHz, the average conducted output power was calculated to be 17.12 dBm with antenna gain of 6.09 dBi.

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

$$17.12 \text{ dBm} + 6.09 \text{ dBi} = 23.21 \text{ dBm}$$

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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.

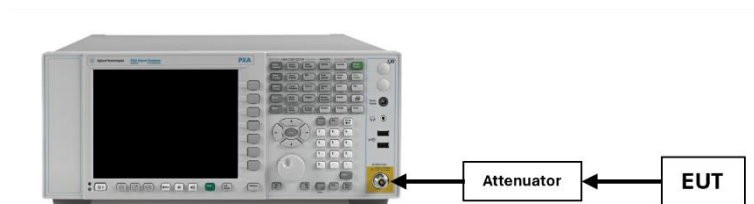


Figure 7-3. Test Instrument & Measurement Setup

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	-1.63	8.0	-9.63
2441	HDR4	ePA	38	-1.70	8.0	-9.70
2476	HDR4	ePA	73	-1.50	8.0	-9.50
2404	HDR4	iPA	1	-9.20	8.0	-17.20
2441	HDR4	iPA	38	-9.05	8.0	-17.05
2476	HDR4	iPA	73	-9.29	8.0	-17.29
2404	HDR8	ePA	1	-2.37	8.0	-10.37
2441	HDR8	ePA	38	-1.97	8.0	-9.97
2476	HDR8	ePA	73	-2.34	8.0	-10.34
2404	HDR8	iPA	1	-9.25	8.0	-17.25
2441	HDR8	iPA	38	-9.26	8.0	-17.26
2476	HDR8	iPA	73	-9.14	8.0	-17.14
2404	HDRPS2	ePA	1	-2.61	8.0	-10.61
2441	HDRPS2	ePA	38	-2.86	8.0	-10.86
2476	HDRPS2	ePA	73	-2.72	8.0	-10.72
2404	HDRPS2	iPA	1	-10.38	8.0	-18.38
2441	HDRPS2	iPA	38	-10.56	8.0	-18.56
2476	HDRPS2	iPA	73	-9.48	8.0	-17.48
2404	XHDRPM6	ePA	1	-6.42	8.0	-14.42
2441	XHDRPM6	ePA	38	-6.69	8.0	-14.69
2476	XHDRPM6	ePA	73	-6.51	8.0	-14.51
2404	XHDRPM6	iPA	1	-14.14	8.0	-22.14
2441	XHDRPM6	iPA	38	-14.38	8.0	-22.38
2476	XHDRPM6	iPA	73	-14.37	8.0	-22.37
2404	HDRPM16	ePA	1	-5.34	8.0	-13.34
2441	HDRPM16	ePA	38	-6.88	8.0	-14.88
2476	HDRPM16	ePA	73	-6.76	8.0	-14.76
2404	HDRPM16	iPA	1	-15.79	8.0	-23.79
2441	HDRPM16	iPA	38	-16.06	8.0	-24.06
2476	HDRPM16	iPA	73	-15.46	8.0	-23.46
2404	HDT2	ePA	1	-4.24	8.0	-12.24
2440	HDT2	ePA	37	-5.01	8.0	-13.01
2476	HDT2	ePA	73	-4.40	8.0	-12.40
2404	HDT2	iPA	1	-12.74	8.0	-20.74
2440	HDT2	iPA	37	-13.43	8.0	-21.43
2476	HDT2	iPA	73	-12.50	8.0	-20.50

Table 7-15. Conducted Power Density Measurements Antenna WF8

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Plot 7-57. Power Spectral Density Plot Antenna WF8 (Bluetooth (HDR4), 4Mbps, ePA – Ch. 73)



Plot 7-58. Power Spectral Density Plot Antenna WF8 (Bluetooth (HDR4), 4Mbps, iPA – Ch. 1)

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