

MEASUREMENT REPORT

FCC PART 15.247 / ISED RSS-247 Bluetooth (Low Energy)

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.:

1C2504170040-08.BCG

FCC ID:

BCGA3360

IC:

579C-A3360

APPLICANT:

Apple Inc.

Application Type:

Certification

Model/HVIN:

A3360

EUT Type:

Tablet Device

Max. RF Output Power:

125.222 mW (20.98 dBm) Peak Conducted

Frequency Range:

2402 – 2480MHz

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.

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 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 PRODUCT INFORMATION

2.1 Equipment Description

The Equipment Under Test (EUT) is the **Apple Tablet Device FCC ID: BCGA3360 and IC: 579C-A3360**. The data found in this test report was taken with the EUT operating in Bluetooth low energy mode. While in low energy mode, the Bluetooth transmitter hops pseudo-randomly between 40 channels, three of which are “advertising channels”. When the transmitter is hopping only between the three advertising channels, the EUT does not fall under the category of a “hopper” as defined in 15.247(a)(iii) which states that a “frequency hopping systems in the 2400–2483.5 MHz band shall use at least 15 channels.” As operation on only the advertising channels does not qualify the EUT as a hopper, the EUT is certified as a DTS device in this mode. The data found in this report is representative of the device when it transmits on its advertising channels. Typical Bluetooth operation is covered under the DSS report found with this application.

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.

BLE-150k		BLE-500k		BLE-1M		BLE-2M	
Ch.	Frequency (MHz)	Ch.	Frequency (MHz)	Ch.	Frequency (MHz)	Ch.	Frequency (MHz)
00	2402	00	2402	00	2402	01	2404
:	:	:	:	:	:	:	:
19	2440	19	2440	19	2440	19	2440
:	:	:	:	:	:	:	:
39	2480	39	2480	39	2480	38	2478

Table 2-1. Bluetooth LE Frequency / Channel Operations

Note: This device is capable of operating in hopping and non-hopping mode. The EUT can hop between 40 different channels in the 2400 – 2483.5MHz band.

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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:

BLE 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]
125k	ePA	97.320	0.118	97.029	0.131	97.185	0.124	97.320	0.118	96.672	0.147
	iPA	97.320	0.118	97.029	0.131	97.185	0.124	97.320	0.118	96.672	0.147
500k	ePA	90.323	0.442	90.261	0.445	90.490	0.434	90.490	0.434	90.490	0.434
	iPA	90.323	0.442	90.261	0.445	90.490	0.434	90.490	0.434	90.490	0.434
1M	ePA	84.879	0.712	84.801	0.716	84.859	0.713	84.840	0.714	84.859	0.713
	iPA	84.879	0.712	84.801	0.716	84.859	0.713	84.840	0.714	84.859	0.713
2M	ePA	56.872	2.451	56.689	2.465	56.312	2.494	56.689	2.465	56.455	2.483
	iPA	56.872	2.451	56.689	2.465	56.312	2.494	56.689	2.465	56.455	2.483

Table 2-2. Measured Duty Cycles

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

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 2-3. Simultaneous Transmission Configurations

✓ = Support; ✗ = Not Support

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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 test reports.

2.3 Antenna Description

Following antennas 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 2-4. Highest Antenna Gain

2.4 Test Support Equipment

1	Apple MacBook Pro w/AC/DC Adapter	Model: A2141 Model: A2166	S/N: C02H604EQ05D S/N: C4H042705ZNP0WA6
2	Apple USB-C Cable	Model: Spartan	S/N: GXK1336018XKTR024
3	USB-C Cable w/ AC Adapter	Model: A2795 Model: A2305	S/N: DWH80115BK826GV19 S/N: C4H95160004PF4F4V
4	Apple Pencil	Model: A2538	S/N: KJ26TCFXJW
5	DC Power Supply	Model: KPS3010D	S/N: N/A

Table 2-5. 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

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 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 65-6. A 1m x 1.5m wooden table 80cm high is placed 40cm away from the vertical wall and 80cm away from the sidewall of the shielded room. Two 10kHz-30MHz, 50Ω/50μH Line-Impedance Stabilization Networks (LISNs) are bonded to the shielded room floor. Power to the LISNs is filtered by external high-current high-insertion loss power line filters. The external power line filter is EPCOS 2X60A Power Line Filter (100dB Attenuation, 14kHz-18GHz) and the two EPCOs 2X48A filters (100dB Minimum Insertion Loss, 14kHz - 10GHz). These filters attenuate ambient signal noise from entering the measurement lines. These filters are also bonded to the shielded enclosure.

The EUT is powered from one LISN and the support equipment is powered from the second LISN. If the EUT is a DC-powered device, power will be derived from the source power supply it normally will be powered from and this supply line(s) will be connected to the second LISN. All interconnecting cables more than 1 meter were shortened to a 1 meter length by non-inductive bundling (serpentine fashion) and draped over the back edge of the test table. All cables were at least 40cm above the horizontal reference 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 7.9. 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 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 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 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 TEST RESULTS

7.1 Summary

Company Name: Apple Inc.
 FCC ID: BCGA3360
 IC: 579C-A3360
 FCC Classification: Digital Transmission System (DTS)
 Number of Channels: 40

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	Section 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	Section 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	Section 7.7, 7.8
15.207	RSS-Gen [8.8]	AC Conducted Emissions 150kHz – 30MHz	< FCC 15.207 limits (RSS-Gen [8.8])	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.

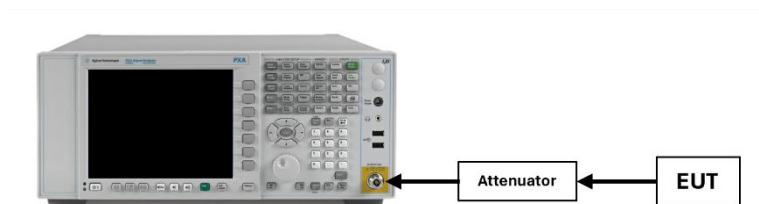


Figure 7-1. Test Instrument & Measurement Setup

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

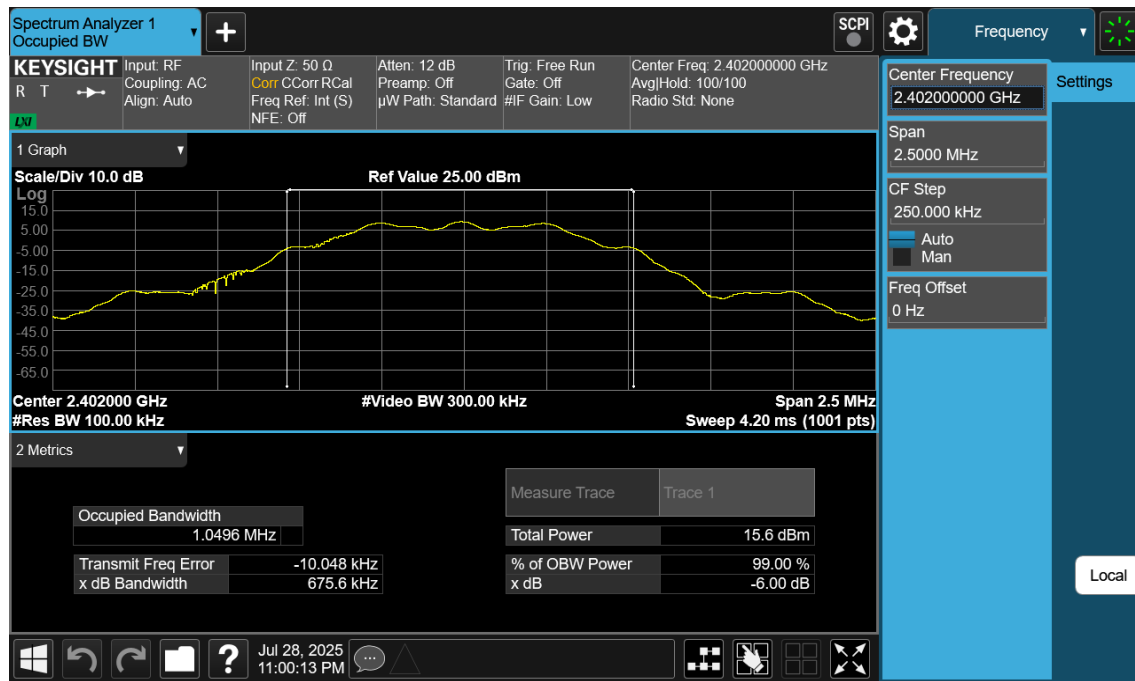
Frequency [MHz]	Data Rate [Mbps]	Power Scheme	Channel	Measured 99% Occupied Bandwidth [MHz]	Measured 6dB Bandwidth [MHz]	Minimum 6dB Bandwidth [MHz]	Pass/Fail
2402	0.125	ePA	0	1.050	0.676	0.50	Pass
2440	0.125	ePA	19	1.050	0.683	0.50	Pass
2480	0.125	ePA	39	1.050	0.681	0.50	Pass
2402	0.500	ePA	0	1.041	0.661	0.50	Pass
2440	0.500	ePA	19	1.040	0.661	0.50	Pass
2480	0.500	ePA	39	1.041	0.663	0.50	Pass
2402	1.0	ePA	0	1.033	0.667	0.50	Pass
2440	1.0	ePA	19	1.033	0.665	0.50	Pass
2480	1.0	ePA	39	1.033	0.666	0.50	Pass
2404	2.0	ePA	1	2.045	1.180	0.50	Pass
2440	2.0	ePA	19	2.044	1.180	0.50	Pass
2478	2.0	ePA	38	2.046	1.180	0.50	Pass

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

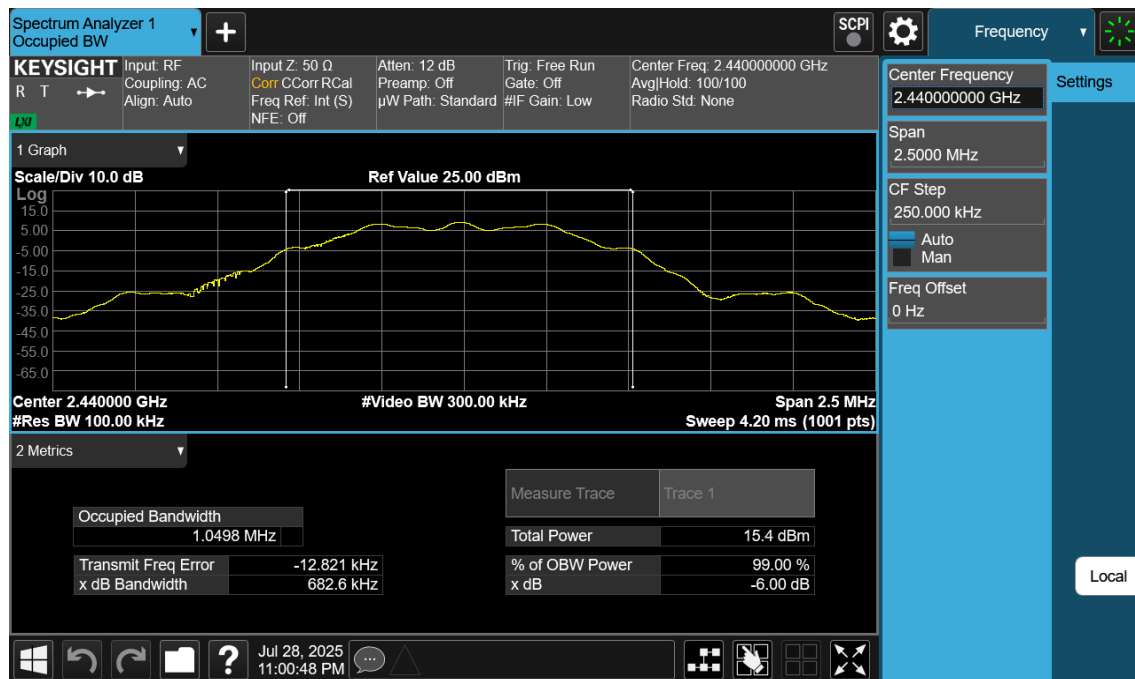
FCC ID: BCGA3360 IC: 579C-A3360		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-1. 6dB BW & 99% OBW Plot Antenna WF8 (Bluetooth (LE), 125kbps, ePA – Ch. 0)



Plot 7-2. 6dB BW & 99% OBW Plot Antenna WF8 (Bluetooth (LE), 125kbps, ePA – Ch. 19)

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Plot 7-5.6dB BW & 99% OBW Plot Antenna WF8 (Bluetooth (LE), 500kbps, ePA – Ch. 19)

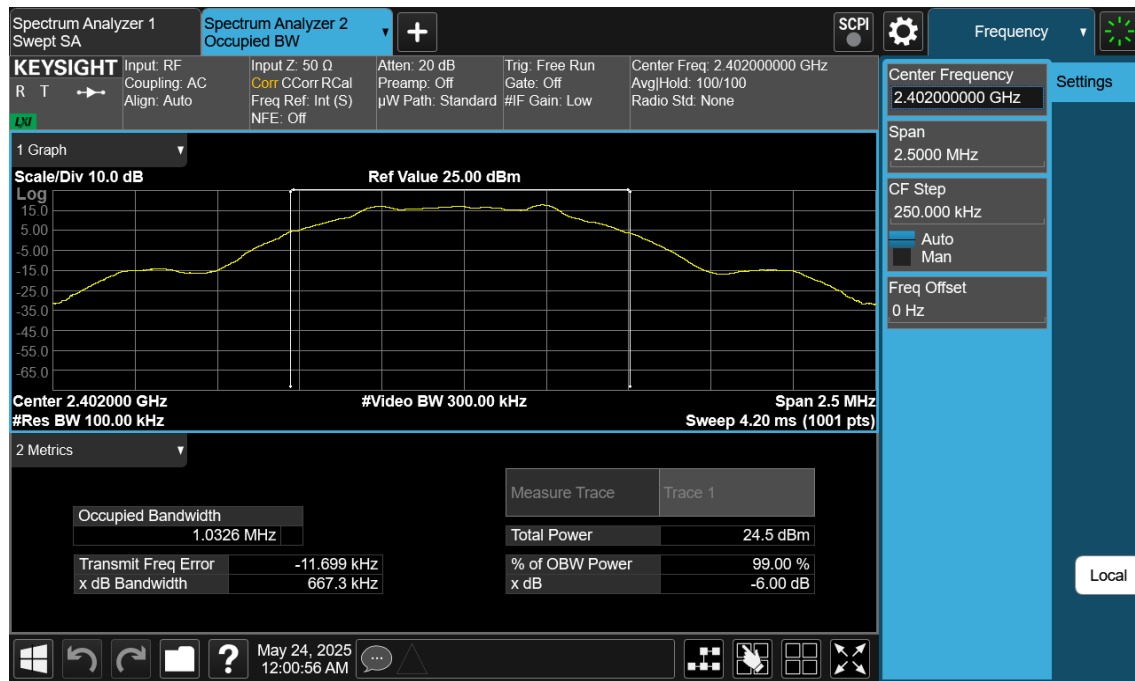


Plot 7-6. 6dB BW & 99% OBW Plot Antenna WF8 (Bluetooth (LE), 500kbps, ePA – Ch. 39)

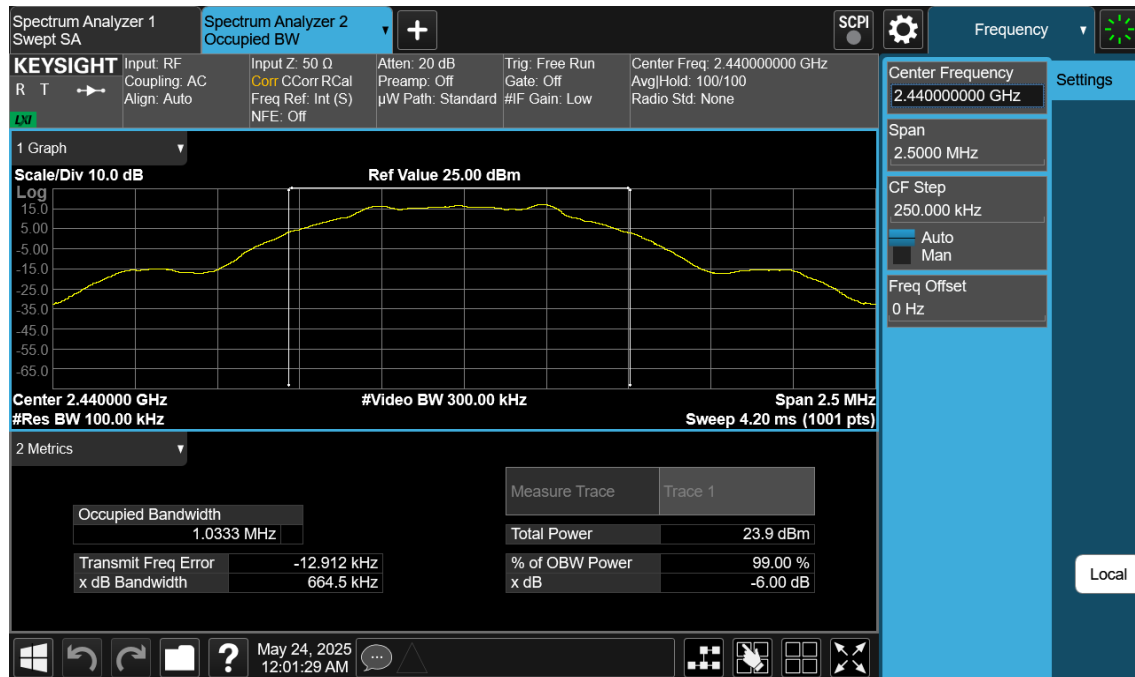
FCC ID: BCGA3360 IC: 579C-A3360		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-7. 6dB BW & 99% OBW Plot Antenna WF8 (Bluetooth (LE), 1Mbps, ePA – Ch. 0)

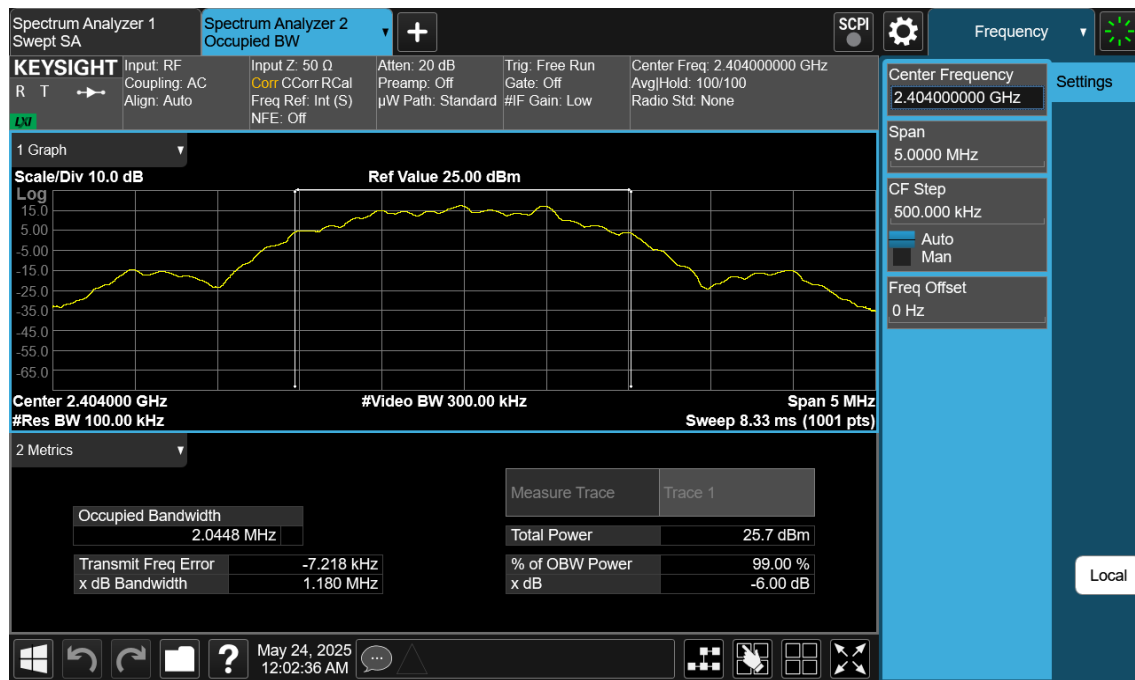
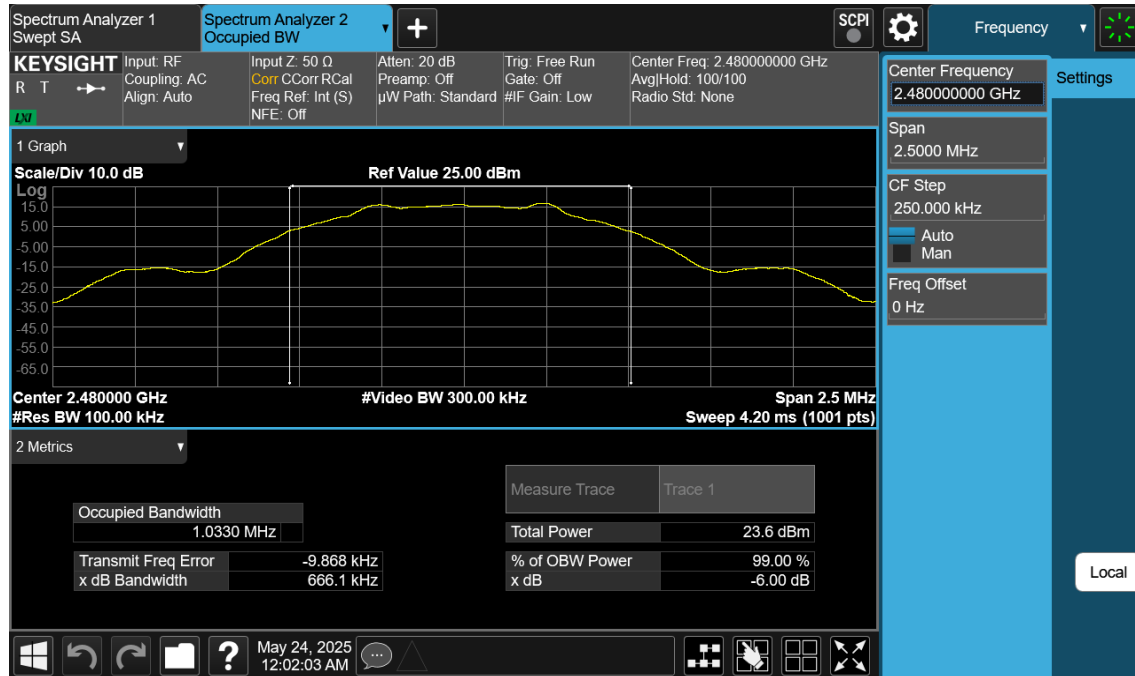


Plot 7-8. 6dB BW & 99% OBW Plot Antenna WF8 (Bluetooth (LE), 1Mbps, ePA – Ch. 19)

FCC ID: BCGA3360 IC: 579C-A3360		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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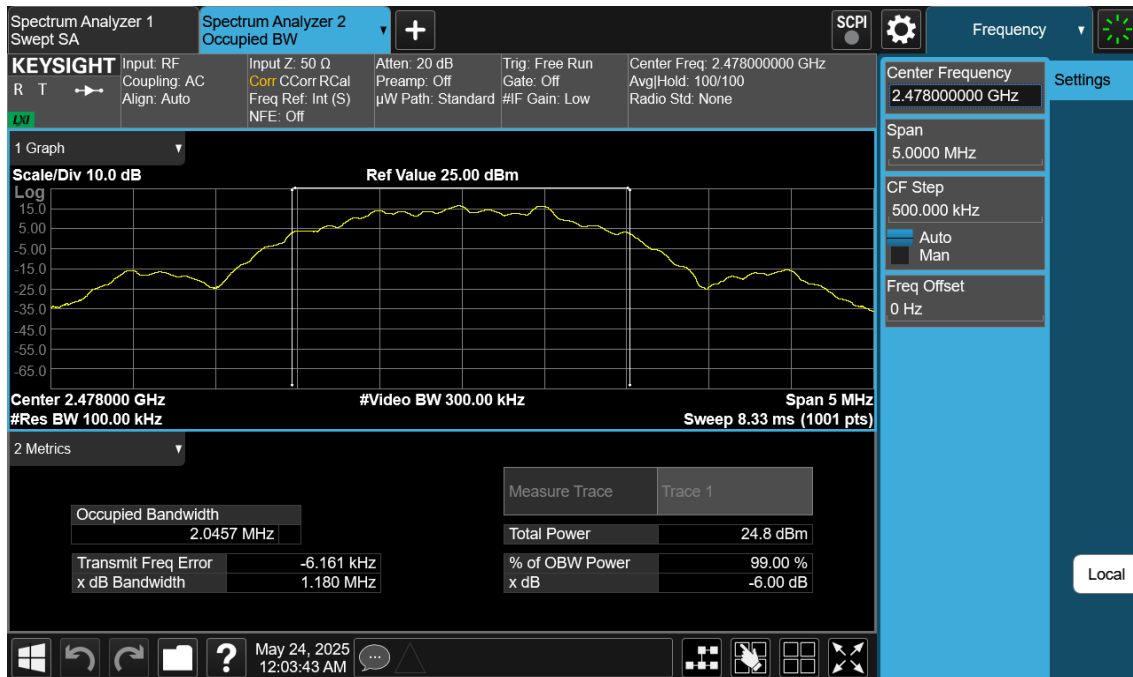
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7.2.2 Antenna WF7

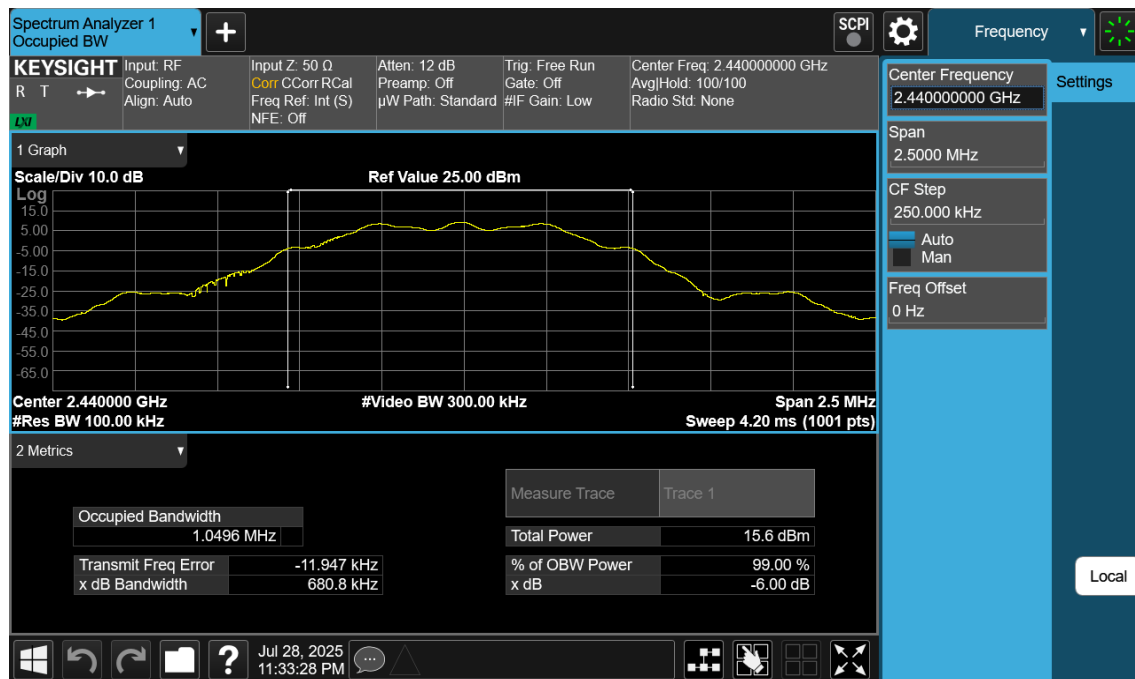
Frequency [MHz]	Data Rate [Mbps]	Power Scheme	Channel	Measured 99% Occupied Bandwidth [MHz]	Measured 6dB Bandwidth [MHz]	Minimum 6dB Bandwidth [MHz]	Pass/Fail
2402	0.125	ePA	0	1.050	0.677	0.50	Pass
2440	0.125	ePA	19	1.050	0.681	0.50	Pass
2480	0.125	ePA	39	1.049	0.679	0.50	Pass
2402	0.500	ePA	0	1.041	0.664	0.50	Pass
2440	0.500	ePA	19	1.041	0.662	0.50	Pass
2480	0.500	ePA	39	1.041	0.662	0.50	Pass
2402	1.0	ePA	0	1.033	0.666	0.50	Pass
2440	1.0	ePA	19	1.034	0.661	0.50	Pass
2480	1.0	ePA	39	1.032	0.666	0.50	Pass
2404	2.0	ePA	1	2.045	1.177	0.50	Pass
2440	2.0	ePA	19	2.045	1.181	0.50	Pass
2478	2.0	ePA	38	2.044	1.180	0.50	Pass

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

FCC ID: BCGA3360 IC: 579C-A3360		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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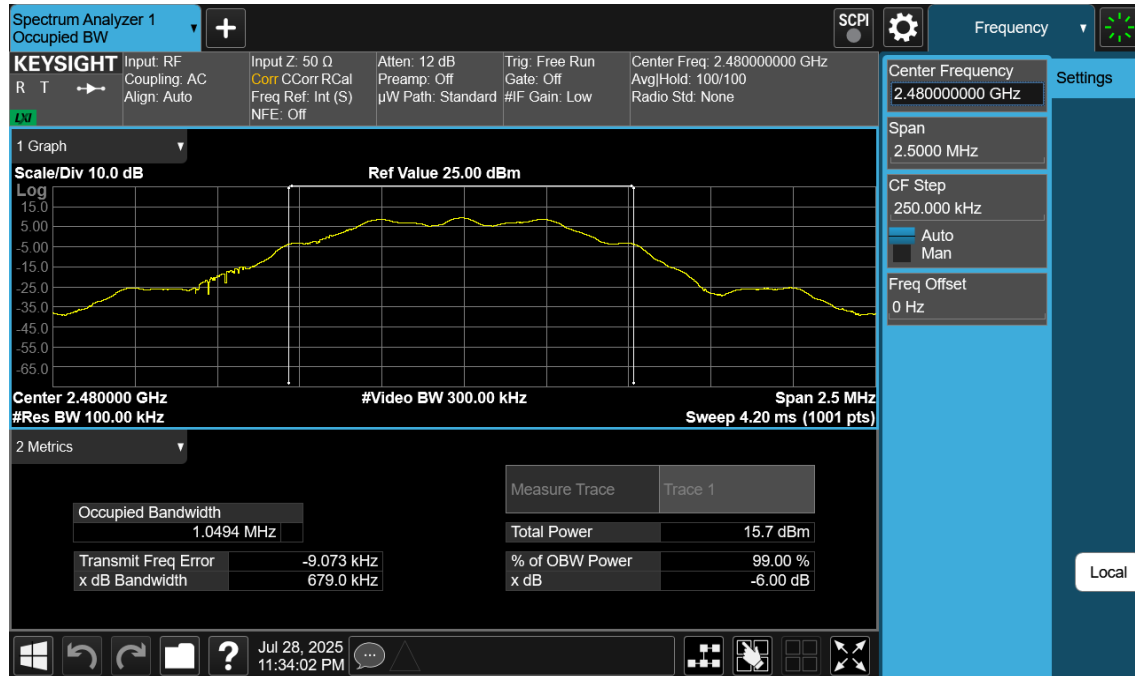
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FCC ID: BCGA3360 IC: 579C-A3360		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-15. 6dB BW & 99% OBW Plot Antenna WF7 (Bluetooth (LE), 125kbps, ePA – Ch. 39)



Plot 7-16. 6dB BW & 99% OBW Plot Antenna WF7 (Bluetooth (LE), 500kbps, ePA – Ch. 0)

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 WF7 (Bluetooth (LE), 500kbps, ePA – Ch. 19)

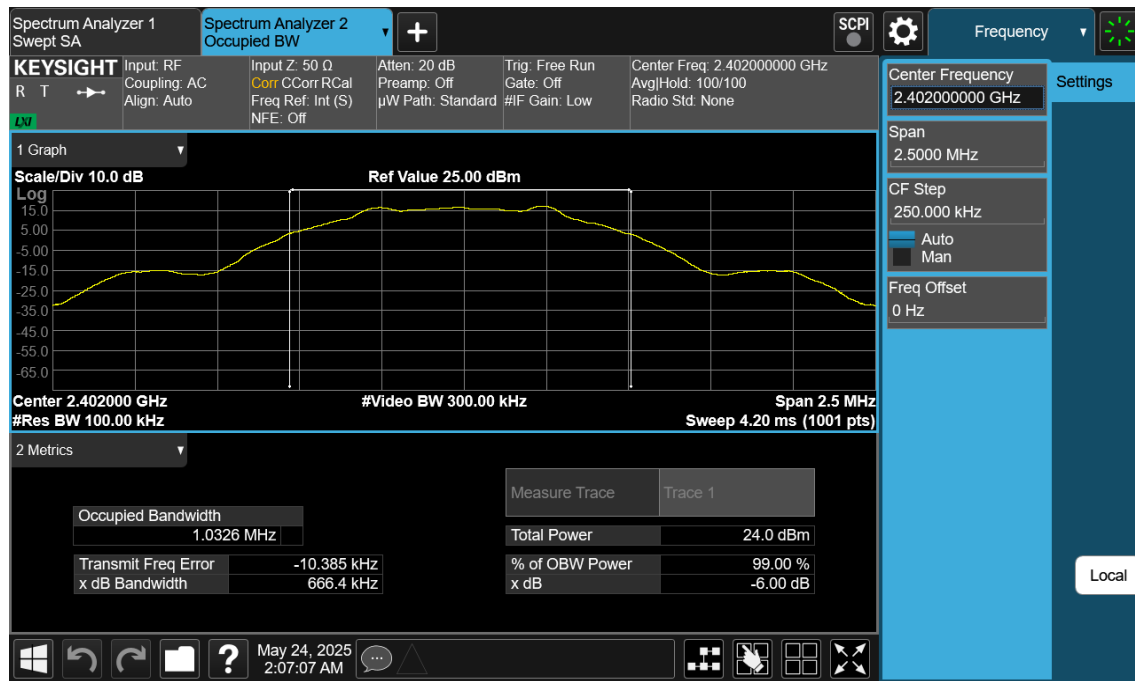


Plot 7-18. 6dB BW & 99% OBW Plot Antenna WF7 (Bluetooth (LE), 500kbps, ePA – Ch. 39)

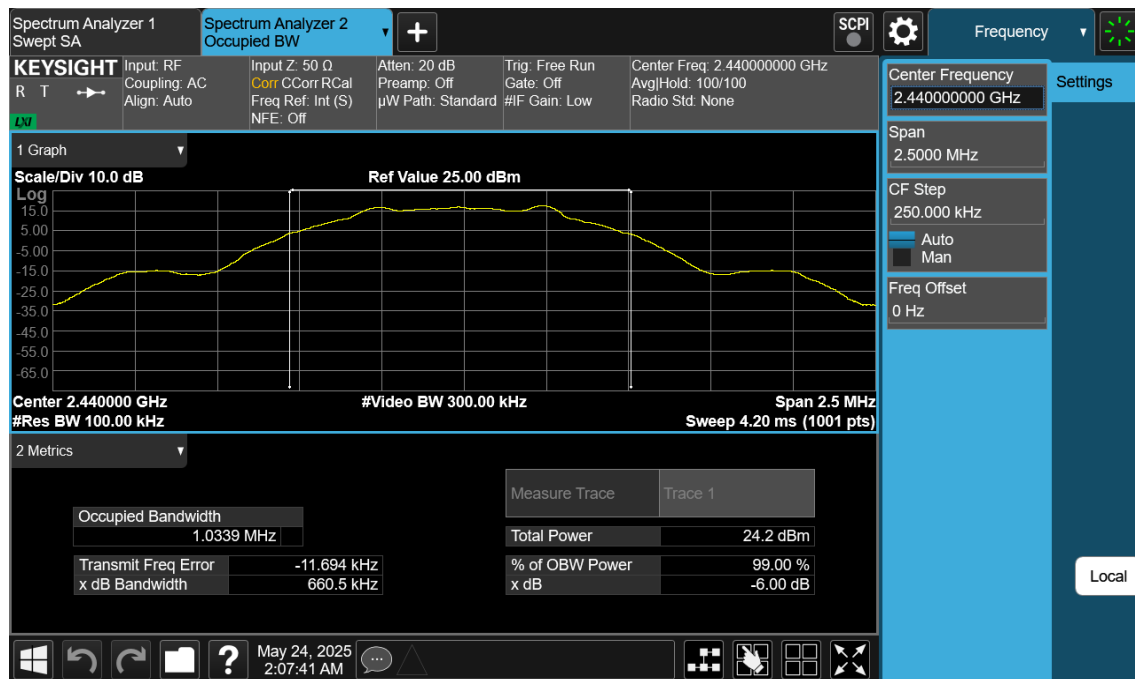
FCC ID: BCGA3360 IC: 579C-A3360	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Plot 7-19. 6dB BW & 99% OBW Plot Antenna WF7 (Bluetooth (LE), 1Mbps, ePA – Ch. 0)

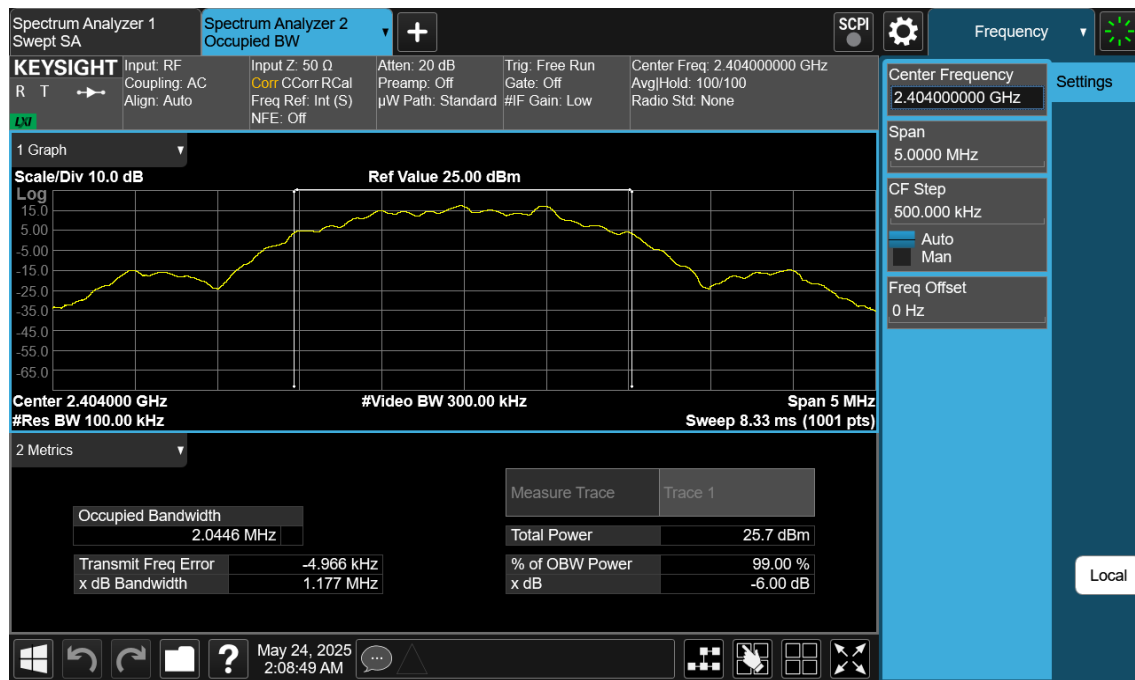
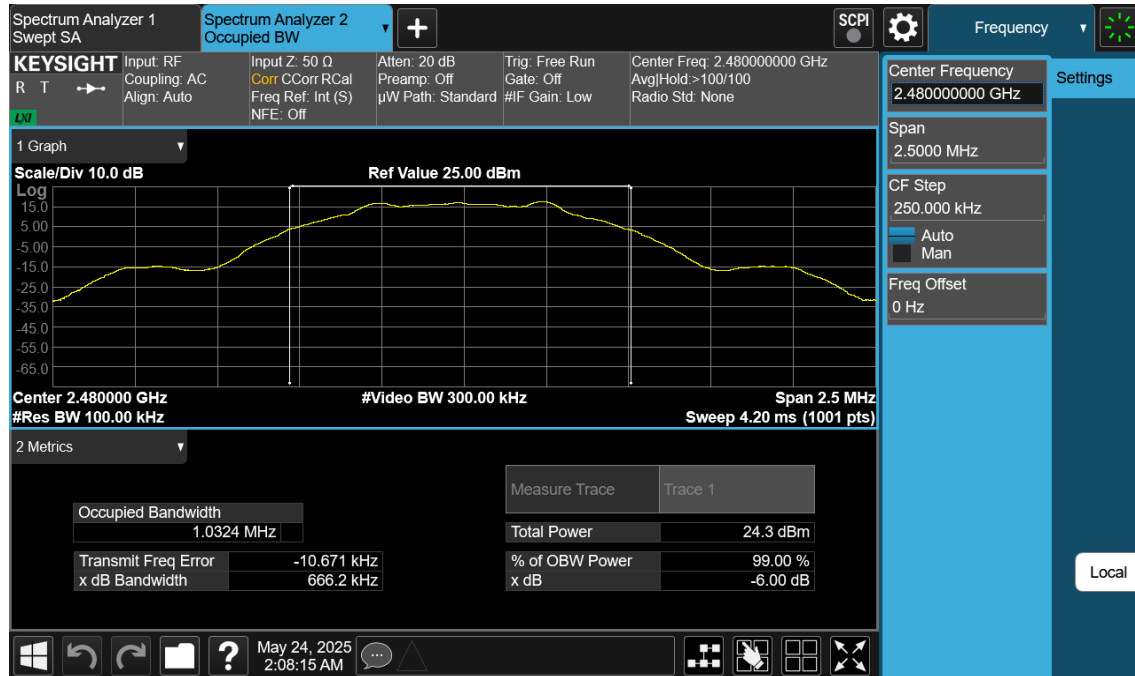


Plot 7-20. 6dB BW & 99% OBW Plot Antenna WF7 (Bluetooth (LE), 1Mbps, ePA – Ch. 19)

FCC ID: BCGA3360 IC: 579C-A3360		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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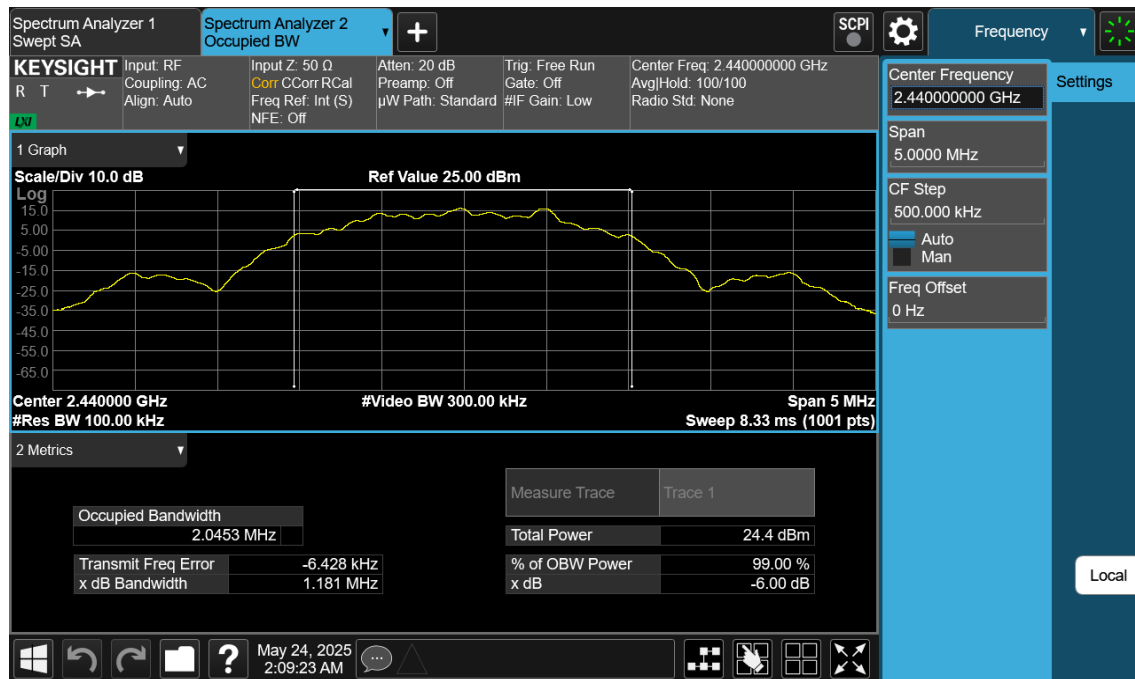
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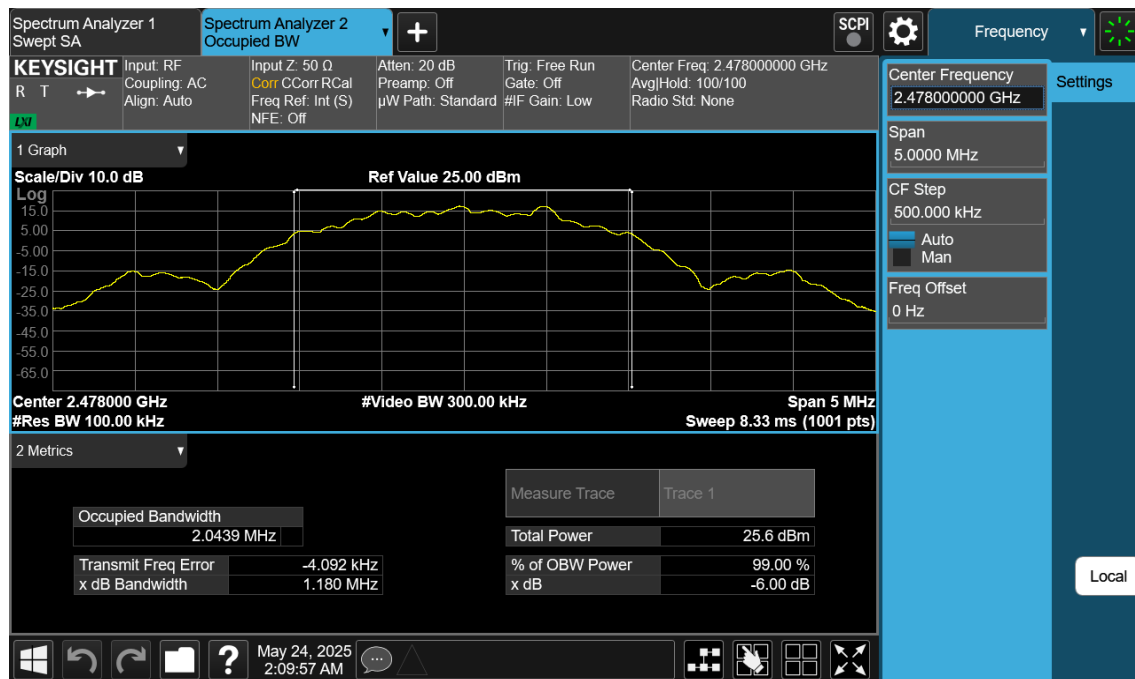
FCC ID: BCGA3360 IC: 579C-A3360	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Plot 7-23. 6dB BW & 99% OBW Plot Antenna WF7 (Bluetooth (LE), 2Mbps, ePA – Ch. 19)



Plot 7-24. 6dB BW & 99% OBW Plot Antenna WF7 (Bluetooth (LE), 2Mbps, ePA – Ch. 38)

FCC ID: BCGA3360 IC: 579C-A3360		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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7.2.3 Antenna WF9

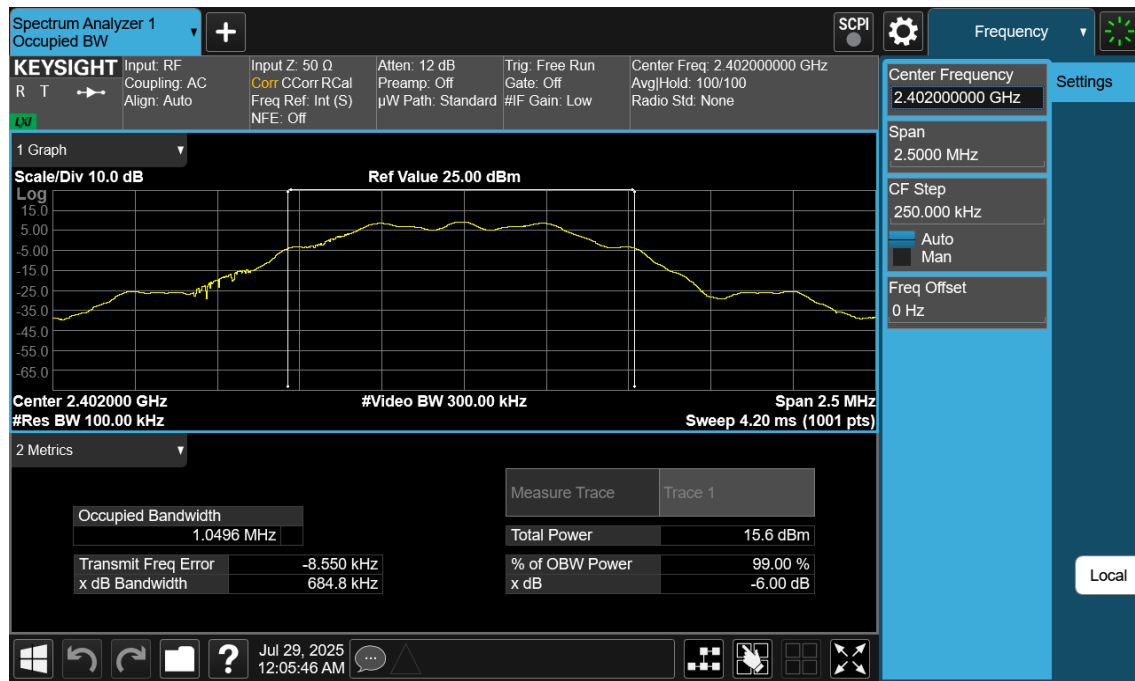
Frequency [MHz]	Data Rate [Mbps]	Power Scheme	Channel	Measured 99% Occupied Bandwidth [MHz]	Measured 6dB Bandwidth [MHz]	Minimum 6dB Bandwidth [MHz]	Pass/Fail
2402	0.125	ePA	0	1.050	0.685	0.50	Pass
2440	0.125	ePA	19	1.050	0.680	0.50	Pass
2480	0.125	ePA	39	1.050	0.676	0.50	Pass
2402	0.500	ePA	0	1.041	0.663	0.50	Pass
2440	0.500	ePA	19	1.040	0.661	0.50	Pass
2480	0.500	ePA	39	1.040	0.662	0.50	Pass
2402	1.0	ePA	0	1.033	0.667	0.50	Pass
2440	1.0	ePA	19	1.034	0.663	0.50	Pass
2480	1.0	ePA	39	1.033	0.663	0.50	Pass
2404	2.0	ePA	1	2.045	1.181	0.50	Pass
2440	2.0	ePA	19	2.045	1.179	0.50	Pass
2478	2.0	ePA	38	2.044	1.180	0.50	Pass

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

FCC ID: BCGA3360 IC: 579C-A3360		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-25. 6dB BW & 99% OBW Plot Antenna WF9 (Bluetooth (LE), 125kbps, ePA – Ch. 0)

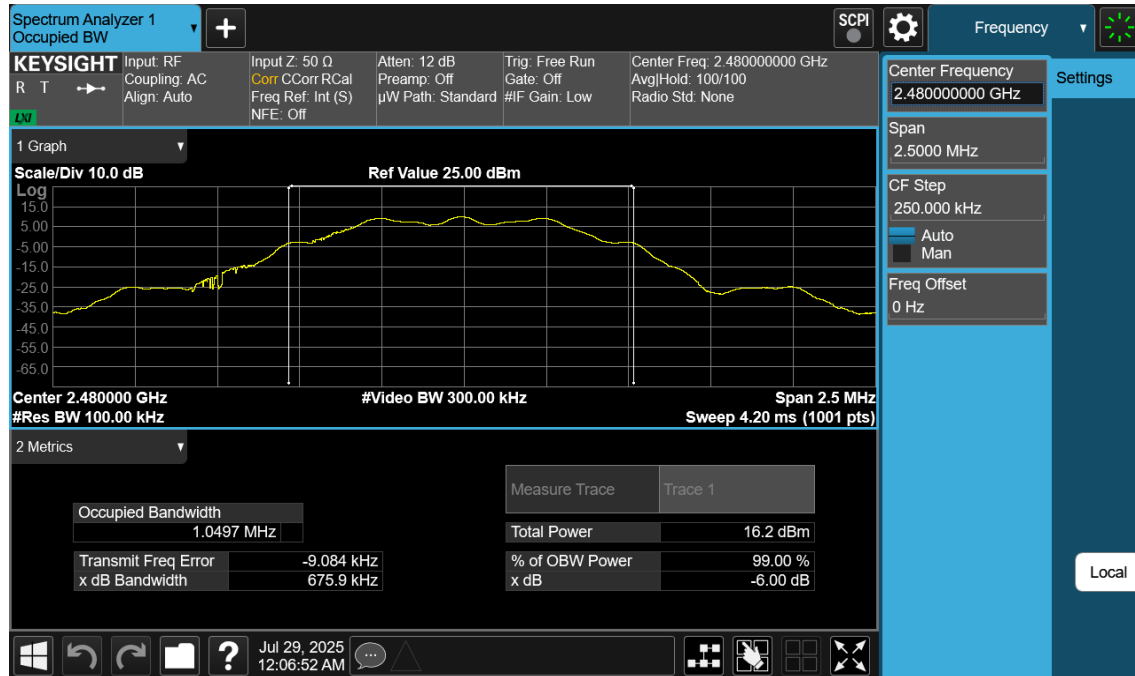


Plot 7-26. 6dB BW & 99% OBW Plot Antenna WF9 (Bluetooth (LE), 125kbps, ePA – Ch. 19)

FCC ID: BCGA3360 IC: 579C-A3360		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-29.6dB BW & 99% OBW Plot Antenna WF9 (Bluetooth (LE), 500kbps, ePA – Ch. 19)

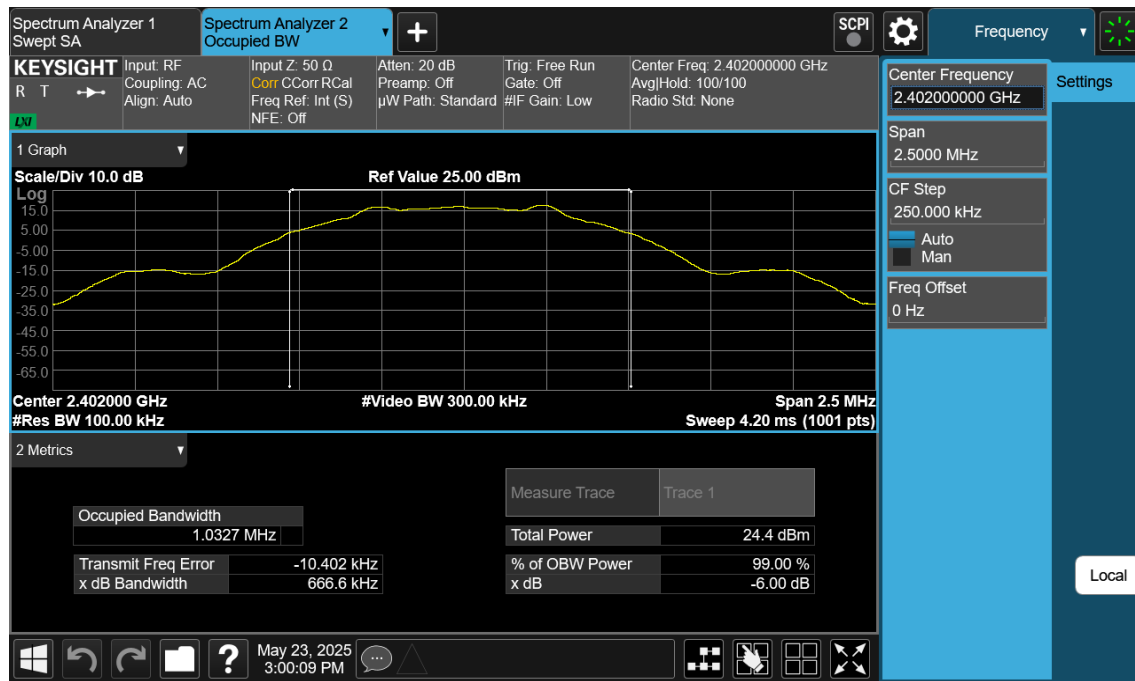


Plot 7-30. 6dB BW & 99% OBW Plot Antenna WF9 (Bluetooth (LE), 500kbps, ePA – Ch. 39)

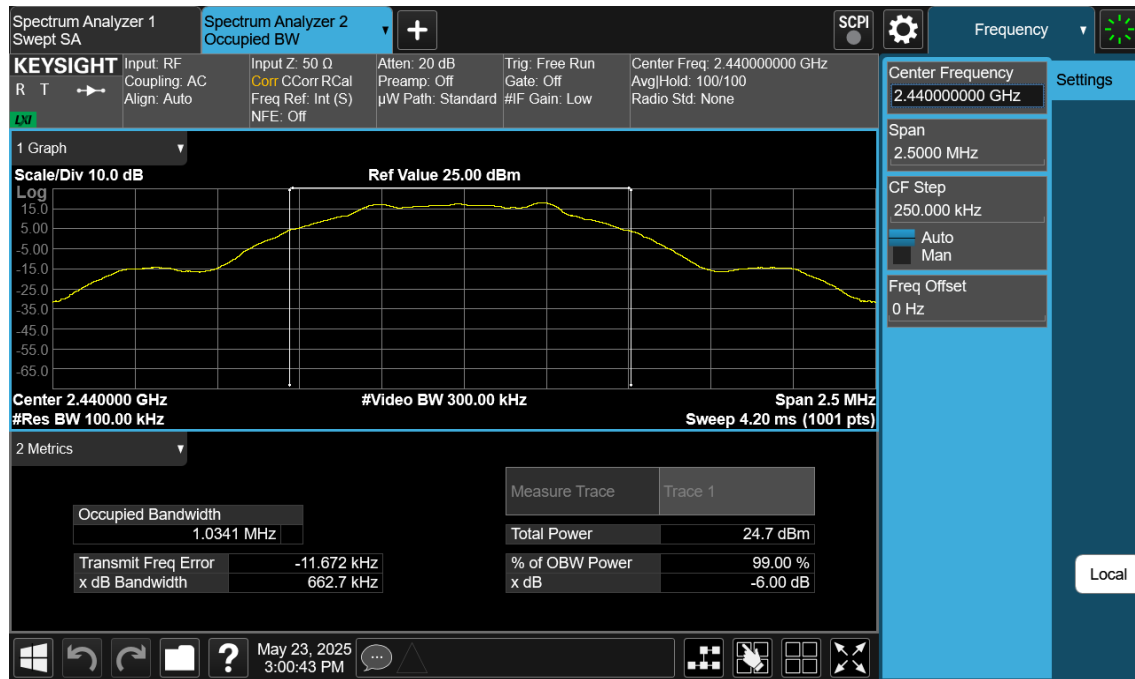
FCC ID: BCGA3360 IC: 579C-A3360		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170040-08.BCG	Test Dates: 05/12/2025 - 09/02/2025	EUT Type: Tablet Device	Page 33 of 188

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Plot 7-31. 6dB BW & 99% OBW Plot Antenna WF9 (Bluetooth (LE), 1Mbps, ePA – Ch. 0)

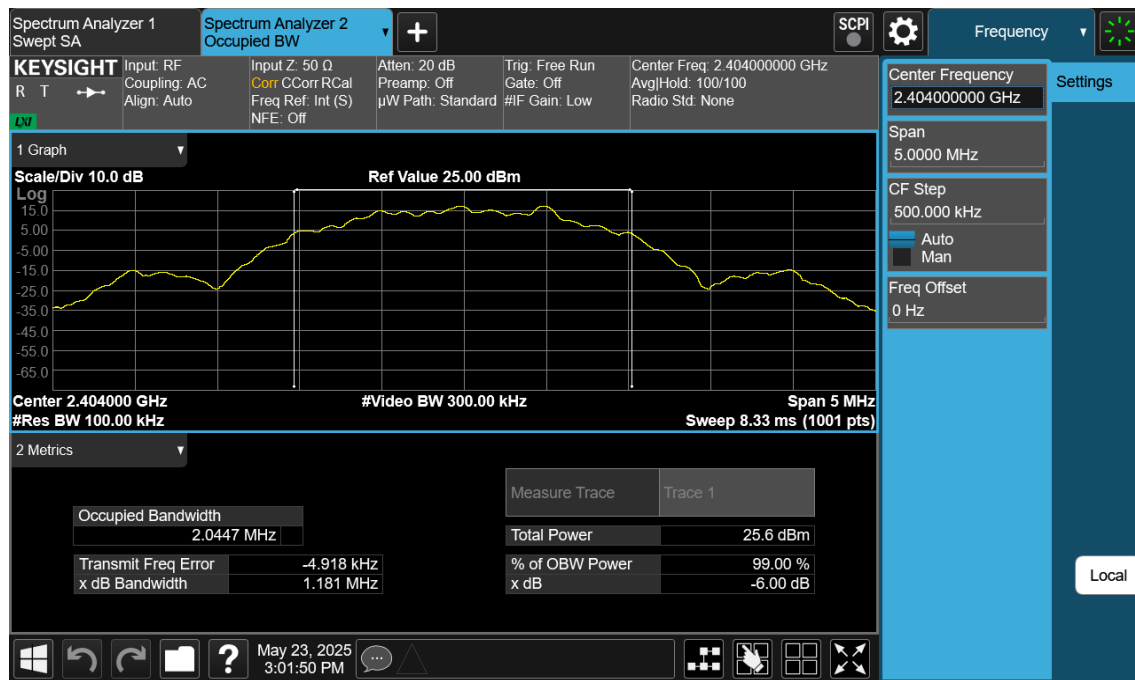
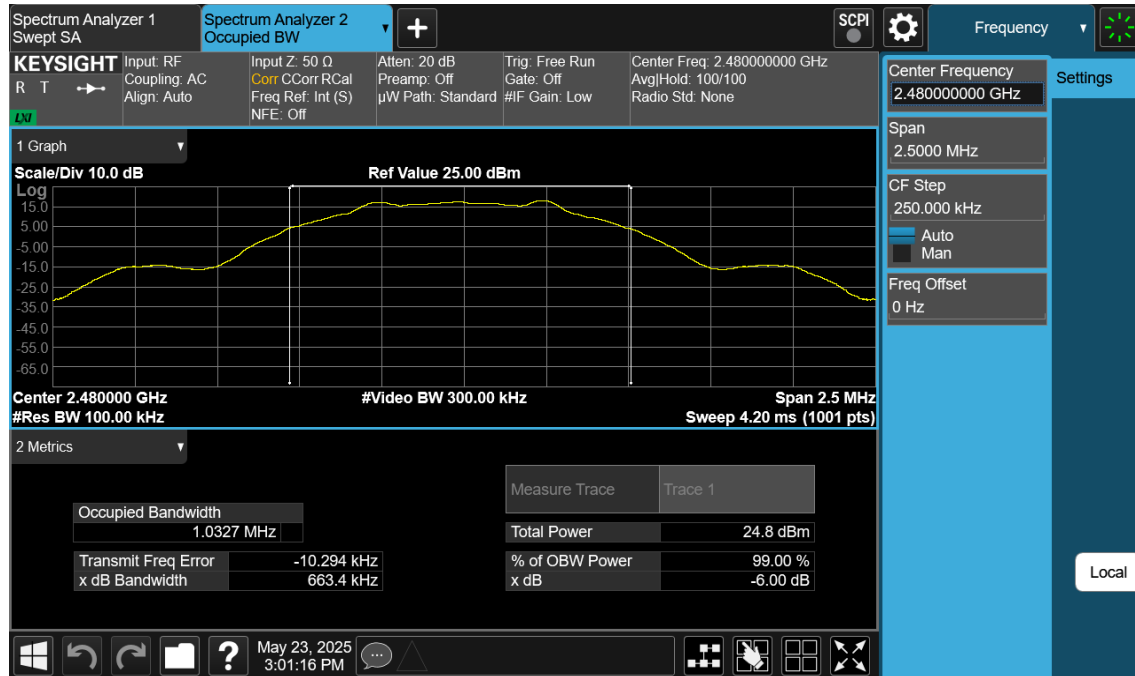


Plot 7-32. 6dB BW & 99% OBW Plot Antenna WF9 (Bluetooth (LE), 1Mbps, ePA – Ch. 19)

FCC ID: BCGA3360 IC: 579C-A3360		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170040-08.BCG	Test Dates: 05/12/2025 - 09/02/2025	EUT Type: Tablet Device	Page 34 of 188

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FCC ID: BCGA3360 IC: 579C-A3360		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Spectrum Analyzer 1
Swept SA

Spectrum Analyzer 2
Occupied BW

KEYSIGHT

Input RF: Coupling: AC, Align: Auto
Input Z: 50 Ω , Corr: RCal, Freq Ref: Int (S), NFE: Off
Atten: 20 dB, Preamp: Off, μ W Path: Standard
Trig: Free Run, Gate: Off, #F Gain: Low
Center Freq: 2.478000000 GHz, Avg/Hold: 100/100, Radio Std: None

SCPI

Frequency

Settings

Center Frequency: 2.478000000 GHz

Span: 5.0000 MHz

CF Step: 500.000 kHz

Auto
Man

Freq Offset: 0 Hz

1 Graph

Scale/Div 10.0 dB

Log

Ref Value 25.00 dBm

Center 2.478000 GHz
#Res BW 100.00 kHz
#Video BW 300.00 kHz
Span 5 MHz
Sweep 8.33 ms (1001 pts)

2 Metrics

Occupied Bandwidth: 2.0442 MHz

Transmit Freq Error: -3.842 kHz
x dB Bandwidth: 1.180 MHz

Measure Trace: Trace 1

Total Power: 25.6 dBm

% of OBW Power: 99.00 %
x dB: -6.00 dB

Local

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 DTSSs 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 (LE)

Frequency [MHz]	Data Rate [Mbps]	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]						
2402	0.125	ePA	0	17.50	56.234	30.00	-12.50	2.10	19.60	36.02	-16.42
2440	0.125	ePA	19	17.37	54.576	30.00	-12.63	2.10	19.47	36.02	-16.55
2480	0.125	ePA	39	17.25	53.088	30.00	-12.75	2.10	19.35	36.02	-16.67
2402	0.125	iPA	0	9.31	8.531	30.00	-20.69	2.10	11.41	36.02	-24.61
2440	0.125	iPA	19	9.39	8.690	30.00	-20.61	2.10	11.49	36.02	-24.53
2480	0.125	iPA	39	9.44	8.794	30.00	-20.56	2.10	11.54	36.02	-24.48
2402	0.500	ePA	1	17.45	55.590	30.00	-12.55	2.10	19.55	36.02	-16.47
2440	0.500	ePA	19	17.42	55.208	30.00	-12.58	2.10	19.52	36.02	-16.50
2480	0.500	ePA	38	17.22	52.723	30.00	-12.78	2.10	19.32	36.02	-16.70
2402	0.500	iPA	1	9.31	8.531	30.00	-20.69	2.10	11.41	36.02	-24.61
2440	0.500	iPA	19	9.63	9.183	30.00	-20.37	2.10	11.73	36.02	-24.29
2480	0.500	iPA	38	9.50	8.913	30.00	-20.50	2.10	11.60	36.02	-24.42
2402	1.0	ePA	0	17.06	50.816	30.00	-12.94	2.10	19.16	36.02	-16.86
2440	1.0	ePA	19	16.86	48.529	30.00	-13.14	2.10	18.96	36.02	-17.06
2480	1.0	ePA	39	17.29	53.580	30.00	-12.71	2.10	19.39	36.02	-16.63
2402	1.0	iPA	0	9.15	8.222	30.00	-20.85	2.10	11.25	36.02	-24.77
2440	1.0	iPA	19	9.18	8.279	30.00	-20.82	2.10	11.28	36.02	-24.74
2480	1.0	iPA	39	8.98	7.907	30.00	-21.02	2.10	11.08	36.02	-24.94
2404	2.0	ePA	1	17.49	56.105	30.00	-12.51	2.10	19.59	36.02	-16.43
2440	2.0	ePA	19	17.50	56.234	30.00	-12.50	2.10	19.60	36.02	-16.42
2478	2.0	ePA	38	17.81	60.395	30.00	-12.19	2.10	19.91	36.02	-16.11
2404	2.0	iPA	1	9.22	8.354	30.00	-20.78	2.10	11.32	36.02	-24.70
2440	2.0	iPA	19	9.65	9.226	30.00	-20.35	2.10	11.75	36.02	-24.27
2478	2.0	iPA	38	10.16	10.375	30.00	-19.84	2.10	12.26	36.02	-23.76

Table 7-5. Peak Conducted Output Power Measurements Antenna WF8 (Bluetooth LE)

Frequency [MHz]	Data Rate [Mbps]	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]						
2402	0.125	ePA	0	18.42	69.502	30.00	-11.58	1.90	20.32	36.02	-15.70
2440	0.125	ePA	19	17.54	56.754	30.00	-12.46	1.90	19.44	36.02	-16.58
2480	0.125	ePA	39	17.51	56.364	30.00	-12.49	1.90	19.41	36.02	-16.61
2402	0.125	iPA	0	8.94	7.834	30.00	-21.06	1.90	10.84	36.02	-25.18
2440	0.125	iPA	19	8.68	7.379	30.00	-21.32	1.90	10.58	36.02	-25.44
2480	0.125	iPA	39	8.86	7.691	30.00	-21.14	1.90	10.76	36.02	-25.26
2402	0.500	ePA	1	17.83	60.674	30.00	-12.17	1.90	19.73	36.02	-16.29
2440	0.500	ePA	19	18.06	63.973	30.00	-11.94	1.90	19.96	36.02	-16.06
2480	0.500	ePA	38	17.65	58.210	30.00	-12.35	1.90	19.55	36.02	-16.47
2402	0.500	iPA	1	8.62	7.278	30.00	-21.38	1.90	10.52	36.02	-25.50
2440	0.500	iPA	19	8.72	7.447	30.00	-21.28	1.90	10.62	36.02	-25.40
2480	0.500	iPA	38	9.08	8.091	30.00	-20.92	1.90	10.98	36.02	-25.04
2402	1.0	ePA	0	17.38	54.702	30.00	-12.62	1.90	19.28	36.02	-16.74
2440	1.0	ePA	19	17.58	57.280	30.00	-12.42	1.90	19.48	36.02	-16.54
2480	1.0	ePA	39	17.59	57.412	30.00	-12.41	1.90	19.49	36.02	-16.53
2402	1.0	iPA	0	8.61	7.261	30.00	-21.39	1.90	10.51	36.02	-25.51
2440	1.0	iPA	19	8.71	7.430	30.00	-21.29	1.90	10.61	36.02	-25.41
2480	1.0	iPA	39	8.88	7.727	30.00	-21.12	1.90	10.78	36.02	-25.24
2404	2.0	ePA	1	18.39	69.024	30.00	-11.61	1.90	20.29	36.02	-15.73
2440	2.0	ePA	19	17.30	53.703	30.00	-12.70	1.90	19.20	36.02	-16.82
2478	2.0	ePA	38	18.21	66.222	30.00	-11.79	1.90	20.11	36.02	-15.91
2404	2.0	iPA	1	8.63	7.295	30.00	-21.37	1.90	10.53	36.02	-25.49
2440	2.0	iPA	19	8.73	7.464	30.00	-21.27	1.90	10.63	36.02	-25.39
2478	2.0	iPA	38	9.08	8.091	30.00	-20.92	1.90	10.98	36.02	-25.04

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

FCC ID: BCGA3360 IC: 579C-A3360		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170040-08.BCG	Test Dates: 05/12/2025 - 09/02/2025	EUT Type: Tablet Device	Page 38 of 188

Frequency [MHz]	Data Rate [Mbps]	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]						
2402	0.125	ePA	0	18.21	66.222	30.00	-11.79	0.50	18.71	36.02	-17.31
2440	0.125	ePA	19	17.97	62.661	30.00	-12.03	0.50	18.47	36.02	-17.55
2480	0.125	ePA	39	18.08	64.269	30.00	-11.92	0.50	18.58	36.02	-17.44
2402	0.125	iPA	0	8.79	7.568	30.00	-21.21	0.50	9.29	36.02	-26.73
2440	0.125	iPA	19	8.89	7.745	30.00	-21.11	0.50	9.39	36.02	-26.63
2480	0.125	iPA	39	8.77	7.534	30.00	-21.23	0.50	9.27	36.02	-26.75
2402	0.500	ePA	1	18.13	65.013	30.00	-11.87	0.50	18.63	36.02	-17.39
2440	0.500	ePA	19	17.97	62.661	30.00	-12.03	0.50	18.47	36.02	-17.55
2480	0.500	ePA	38	18.15	65.313	30.00	-11.85	0.50	18.65	36.02	-17.37
2402	0.500	iPA	1	8.87	7.709	30.00	-21.13	0.50	9.37	36.02	-26.65
2440	0.500	iPA	19	8.94	7.842	30.00	-21.06	0.50	9.44	36.02	-26.58
2480	0.500	iPA	38	9.09	8.110	30.00	-20.91	0.50	9.59	36.02	-26.43
2402	1.0	ePA	0	17.71	59.020	30.00	-12.29	0.50	18.21	36.02	-17.81
2440	1.0	ePA	19	18.00	63.096	30.00	-12.00	0.50	18.50	36.02	-17.52
2480	1.0	ePA	39	18.10	64.565	30.00	-11.90	0.50	18.60	36.02	-17.42
2402	1.0	iPA	0	8.72	7.447	30.00	-21.28	0.50	9.22	36.02	-26.80
2440	1.0	iPA	19	8.93	7.816	30.00	-21.07	0.50	9.43	36.02	-26.59
2480	1.0	iPA	39	8.79	7.568	30.00	-21.21	0.50	9.29	36.02	-26.73
2404	2.0	ePA	1	18.01	63.168	30.00	-12.00	0.50	18.51	36.02	-17.52
2440	2.0	ePA	19	18.02	63.387	30.00	-11.98	0.50	18.52	36.02	-17.50
2478	2.0	ePA	38	18.18	65.766	30.00	-11.82	0.50	18.68	36.02	-17.34
2404	2.0	iPA	1	8.73	7.464	30.00	-21.27	0.50	9.23	36.02	-26.79
2440	2.0	iPA	19	8.97	7.892	30.00	-21.03	0.50	9.47	36.02	-26.55
2478	2.0	iPA	38	9.11	8.147	30.00	-20.89	0.50	9.61	36.02	-26.41

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

Frequency [MHz]	Data Rate [Mbps]	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]						
2402	0.125	ePA	0	17.39	54.828	17.78	59.979	20.60	114.807	30.00	-9.40	5.01	25.61	36.02	-10.41
2440	0.125	ePA	19	17.25	53.088	17.87	61.235	20.58	114.323	30.00	-9.42	5.01	25.59	36.02	-10.43
2480	0.125	ePA	39	17.18	52.240	17.91	61.802	20.57	114.041	30.00	-9.43	5.01	25.58	36.02	-10.44
2402	0.125	iPA	0	9.28	8.472	8.89	7.745	12.10	16.217	30.00	-17.90	5.01	17.11	36.02	-18.91
2440	0.125	iPA	19	9.27	8.453	8.64	7.311	11.98	15.764	30.00	-18.02	5.01	16.99	36.02	-18.93
2480	0.125	iPA	39	9.48	8.872	8.93	7.816	12.22	16.688	30.00	-17.78	5.01	17.23	36.02	-18.79
2402	0.500	ePA	1	17.35	54.325	17.73	59.293	20.55	113.618	30.00	-9.45	5.01	25.57	36.02	-10.46
2440	0.500	ePA	19	17.32	53.951	17.92	61.944	20.64	115.995	30.00	-9.36	5.01	25.65	36.02	-10.37
2480	0.500	ePA	38	17.10	51.286	18.04	63.680	20.61	114.966	30.00	-9.39	5.01	25.62	36.02	-10.40
2402	0.500	iPA	1	9.33	8.570	8.61	7.261	12.00	15.631	30.00	-18.00	5.01	17.01	36.02	-19.01
2440	0.500	iPA	19	9.54	8.995	9.10	8.128	12.34	17.123	30.00	-17.66	5.01	17.35	36.02	-18.67
2480	0.500	iPA	38	9.45	8.810	8.98	7.907	12.23	16.717	30.00	-17.77	5.01	17.24	36.02	-18.78
2402	1.0	ePA	0	17.39	54.828	17.82	60.534	20.62	115.362	30.00	-9.38	5.01	25.63	36.02	-10.39
2440	1.0	ePA	19	17.28	53.456	17.92	61.944	20.62	115.401	30.00	-9.38	5.01	25.63	36.02	-10.39
2480	1.0	ePA	39	17.70	58.884	17.99	62.951	20.86	121.835	30.00	-9.14	5.01	25.87	36.02	-10.15
2402	1.0	iPA	0	9.23	8.375	8.83	7.638	12.04	16.014	30.00	-17.96	5.01	17.06	36.02	-18.96
2440	1.0	iPA	19	9.53	8.974	9.06	8.054	12.31	17.028	30.00	-17.69	5.01	17.32	36.02	-18.70
2480	1.0	iPA	39	9.33	8.570	9.10	8.128	12.23	16.699	30.00	-17.77	5.01	17.24	36.02	-18.78
2404	2.0	ePA	1	17.85	60.954	17.57	57.148	20.72	118.102	30.00	-9.28	5.01	25.73	36.02	-10.29
2440	2.0	ePA	19	17.82	60.534	17.72	59.156	20.78	119.600	30.00	-9.22	5.01	25.79	36.02	-10.23
2478	2.0	ePA	38	17.12	51.523	17.83	60.674	20.50	112.196	30.00	-9.50	5.01	25.51	36.02	-10.51
2404	2.0	iPA	1	9.89	9.750	9.15	8.222	12.55	17.972	30.00	-17.45	5.01	17.56	36.02	-18.46
2440	2.0	iPA	19	9.54	8.995	9.62	9.162	12.59	18.157	30.00	-17.41	5.01	17.60	36.02	-18.42
2478	2.0	iPA	38	10.07	10.162	9.01	7.962	12.58	18.124	30.00	-17.42	5.01	17.59	36.02	-18.43

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

Frequency [MHz]	Data Rate [Mbps]	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]						
2402	0.125	ePA	0	17.39	54.828	17.59	57.412	20.50	112.239	30.00	-9.50	4.35	24.85	36.02	-11.17
2440	0.125	ePA	19	17.25	53.088	18.32	67.920	20.83	121.009	30.00	-9.17	4.35	25.18	36.02	-10.85
2480	0.125	ePA	39	17.18	52.240	18.39	69.024	20.84	121.264	30.00	-9.16	4.35	25.18	36.02	-10.84
2402	0.125	iPA	0	9.28	8.472	8.72	7.447	12.02	15.920	30.00	-17.98	4.35	16.37	36.02	-19.65
2440	0.125	iPA	19	9.27	8.453	8.92	7.798	12.11	16.251	30.00	-17.89	4.35	16.46	36.02	-19.56
2480	0.125	iPA	39	9.48	8.872	8.72	7.447	12.13	16.319	30.00	-17.87	4.35	16.47	36.02	-19.55
2402	0.500	ePA	1	17.35	54.325	18.02	63.387	20.71	117.712	30.00	-9.29	4.35	25.06	36.02	-10.97
2440	0.500	ePA	19	17.32	53.951	17.88	61.376	20.62	115.327	30.00	-9.38	4.35	24.97	36.02	-11.05
2480	0.500	ePA	38	17.10	51.286	18.05	63.826	20.61	115.112	30.00	-9.39	4.35	24.96	36.02	-11.06
2402	0.500	iPA	1	9.33	8.570	8.79	7.568	12.08	16.139	30.00	-17.92	4.35	16.43	36.02	-19.59
2440	0.500	iPA	19	9.54	8.995	8.93	7.816	12.26	16.811	30.00	-17.74	4.35	16.60	36.02	-19.42
2480	0.500	iPA	38	9.45	8.810	9.02	7.980	12.25	16.790	30.00	-17.75	4.35	16.60	36.02	-19.42
2402	1.0	ePA	0	17.39	54.828	18.11	64.714	20.78	119.542	30.00	-9.22	4.35	25.12	36.02	-10.90
2440	1.0	ePA	19	17.28	53.456	17.93	62.087	20.63	115.543	30.00	-9.37	4.35	24.97	36.02	-11.05
2480	1.0	ePA	39	17.70	58.884	17.43	55.335	20.58	114.219	30.00	-9.42	4.35	24.92	36.02	-11.10
2402	1.0	iPA	0	9.23	8.375	8.61	7.261	11.94	15.636	30.00	-18.06	4.35	16.29	36.02	-19.73
2440	1.0	iPA	19	9.53	8.974	8.84	7.656	12.21	16.630	30.00	-17.79	4.35	16.56	36.02	-19.46
2480	1.0	iPA	39	9.33	8.570	8.77	7.534	12.07	16.104	30.00	-17.93	4.35	16.42	36.02	-19.60
2404	2.0	ePA	1	17.85	60.954	18.08	64.269	20.98	125.222	30.00	-9.02	4.35	25.32	36.02	-10.70
2440	2.0	ePA	19	17.82	60.534	17.79	60.117	20.82	120.651	30.00	-9.18	4.35	25.16	36.02	-10.86
2478	2.0	ePA	38	17.12	51.523	17.59	57.412	20.37	108.935	30.00	-9.63	4.35	24.72	36.02	-11.30
2404	2.0	iPA	1	9.89	9.750	9.12	8.166	12.53	17.916	30.00	-17.47	4.35	16.88	36.02	-19.14
2440	2.0	iPA	19	9.54	8.995	9.33	8.570	12.45	17.565	30.00	-17.55	4.35	16.79	36.02	-19.23
2478	2.0	iPA	38	10.07	10.162	8.93	7.816	12.55	17.979	30.00	-17.45	4.35	16.89	36.02	-19.13

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

FCC ID: BCGA3360 IC: 579C-A3360		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170040-08.BCG	Test Dates: 05/12/2025 - 09/02/2025	EUT Type: Tablet Device	Page 39 of 188

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7.3.2 Average Output Power Measurement – Bluetooth (LE)

Frequency [MHz]	Data Rate [Mbps]	Power Scheme	Channel No.	Average Conducted Power		Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	EIRP [dBm]	EIRP Limit [dBm]	EIRP Margin [dB]	Target [dBm]
				[dBm]	[mW]							
2402	0.125	ePA	0	12.44	17.551	30.00	-17.56	2.10	14.54	36.02	-21.48	12.80
2440	0.125	ePA	19	12.36	17.223	30.00	-17.64	2.10	14.46	36.02	-21.56	12.80
2480	0.125	ePA	39	12.64	18.382	30.00	-17.36	2.10	14.74	36.02	-21.28	12.80
2402	0.125	iPA	0	9.16	8.241	30.00	-20.84	2.10	11.26	36.02	-24.76	9.50
2440	0.125	iPA	19	9.14	8.204	30.00	-20.86	2.10	11.24	36.02	-24.78	9.50
2480	0.125	iPA	39	9.40	8.710	30.00	-20.60	2.10	11.50	36.02	-24.52	9.50
2402	0.500	ePA	1	12.43	17.486	30.00	-17.57	2.10	14.53	36.02	-21.49	12.80
2440	0.500	ePA	19	12.32	17.073	30.00	-17.68	2.10	14.42	36.02	-21.60	12.80
2480	0.500	ePA	38	12.62	18.289	30.00	-17.38	2.10	14.72	36.02	-21.30	12.80
2402	0.500	iPA	1	9.21	8.337	30.00	-20.79	2.10	11.31	36.02	-24.71	9.50
2440	0.500	iPA	19	9.40	8.706	30.00	-20.60	2.10	11.50	36.02	-24.52	9.50
2480	0.500	iPA	38	9.47	8.849	30.00	-20.53	2.10	11.57	36.02	-24.45	9.50
2402	1.0	ePA	0	16.83	48.173	30.00	-13.17	2.10	18.93	36.02	-17.09	16.00
2440	1.0	ePA	19	16.71	46.881	30.00	-13.29	2.10	18.81	36.02	-17.21	16.00
2480	1.0	ePA	39	17.24	52.979	30.00	-12.76	2.10	19.34	36.02	-16.68	16.00
2402	1.0	iPA	0	8.99	7.923	30.00	-21.01	2.10	11.09	36.02	-24.93	9.50
2440	1.0	iPA	19	9.10	8.130	30.00	-20.90	2.10	11.20	36.02	-24.82	9.50
2480	1.0	iPA	39	8.93	7.818	30.00	-21.07	2.10	11.03	36.02	-24.99	9.50
2404	2.0	ePA	1	17.22	52.674	30.00	-12.78	2.10	19.32	36.02	-16.70	16.00
2440	2.0	ePA	19	17.31	53.839	30.00	-12.69	2.10	19.41	36.02	-16.61	16.00
2478	2.0	ePA	38	17.47	55.898	30.00	-12.53	2.10	19.57	36.02	-16.45	16.00
2404	2.0	iPA	1	9.16	8.241	30.00	-20.84	2.10	11.26	36.02	-24.76	9.50
2440	2.0	iPA	19	9.17	8.255	30.00	-20.83	2.10	11.27	36.02	-24.75	9.50
2478	2.0	iPA	38	9.39	8.692	30.00	-20.61	2.10	11.49	36.02	-24.53	9.50

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

Frequency [MHz]	Data Rate [Mbps]	Power Scheme	Channel No.	Average Conducted Power		Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	EIRP [dBm]	EIRP Limit [dBm]	EIRP Margin [dB]	Target [dBm]
				[dBm]	[mW]							
2402	0.125	ePA	0	12.48	17.717	30.00	-17.52	1.90	14.38	36.02	-21.64	12.80
2440	0.125	ePA	19	12.48	17.697	30.00	-17.52	1.90	14.38	36.02	-21.64	12.80
2480	0.125	ePA	39	12.30	16.982	30.00	-17.70	1.90	14.20	36.02	-21.82	12.80
2402	0.125	iPA	0	8.63	7.288	30.00	-21.37	1.90	10.53	36.02	-25.49	9.00
2440	0.125	iPA	19	8.65	7.328	30.00	-21.35	1.90	10.55	36.02	-25.47	9.00
2480	0.125	iPA	39	8.52	7.104	30.00	-21.49	1.90	10.42	36.02	-25.61	9.00
2402	0.500	ePA	1	12.54	17.943	30.00	-17.46	1.90	14.44	36.02	-21.58	12.80
2440	0.500	ePA	19	12.48	17.681	30.00	-17.53	1.90	14.38	36.02	-21.65	12.80
2480	0.500	ePA	38	12.30	16.990	30.00	-17.70	1.90	14.20	36.02	-21.82	12.80
2402	0.500	iPA	1	8.52	7.112	30.00	-21.48	1.90	10.42	36.02	-25.60	9.00
2440	0.500	iPA	19	8.64	7.306	30.00	-21.36	1.90	10.54	36.02	-25.48	9.00
2480	0.500	iPA	38	8.55	7.160	30.00	-21.45	1.90	10.45	36.02	-25.57	9.00
2402	1.0	ePA	0	17.16	52.024	30.00	-12.84	1.90	19.06	36.02	-16.96	17.50
2440	1.0	ePA	19	17.34	54.163	30.00	-12.66	1.90	19.24	36.02	-16.78	17.50
2480	1.0	ePA	39	17.35	54.263	30.00	-12.66	1.90	19.25	36.02	-16.78	17.50
2402	1.0	iPA	0	8.57	7.194	30.00	-21.43	1.90	10.47	36.02	-25.55	9.00
2440	1.0	iPA	19	8.50	7.076	30.00	-21.50	1.90	10.40	36.02	-25.62	9.00
2480	1.0	iPA	39	8.86	7.695	30.00	-21.14	1.90	10.76	36.02	-25.26	9.00
2404	2.0	ePA	1	17.70	58.939	30.00	-12.30	1.90	19.60	36.02	-16.42	17.50
2440	2.0	ePA	19	17.03	50.466	30.00	-12.97	1.90	18.93	36.02	-17.09	17.50
2478	2.0	ePA	38	17.26	53.150	30.00	-12.75	1.90	19.16	36.02	-16.87	17.50
2404	2.0	iPA	1	8.58	7.211	30.00	-21.42	1.90	10.48	36.02	-25.54	9.00
2440	2.0	iPA	19	8.60	7.246	30.00	-21.40	1.90	10.50	36.02	-25.52	9.00
2478	2.0	iPA	38	8.92	7.804	30.00	-21.08	1.90	10.82	36.02	-25.20	9.00

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

FCC ID: BCGA3360 IC: 579C-A3360	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2504170040-08.BCG	Test Dates: 05/12/2025 - 09/02/2025	EUT Type: Tablet Device	Page 40 of 188

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Frequency [MHz]	Data Rate [Mbps]	Power Scheme	Channel No.	Average Conducted Power		Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	EIRP [dBm]	EIRP Limit [dBm]	EIRP Margin [dB]	Target [dBm]
				[dBm]	[mW]							
2402	0.125	ePA	0	12.35	17.175	30.00	-17.65	0.50	12.85	36.02	-23.17	12.80
2440	0.125	ePA	19	12.32	17.057	30.00	-17.68	0.50	12.82	36.02	-23.20	12.80
2480	0.125	ePA	39	12.70	18.599	30.00	-17.31	0.50	13.20	36.02	-22.83	12.80
2402	0.125	iPA	0	8.71	7.430	30.00	-21.29	0.50	9.21	36.02	-26.81	9.00
2440	0.125	iPA	19	8.88	7.721	30.00	-21.12	0.50	9.38	36.02	-26.64	9.00
2480	0.125	iPA	39	8.77	7.528	30.00	-21.23	0.50	9.27	36.02	-26.75	9.00
2402	0.500	ePA	1	12.37	17.246	30.00	-17.63	0.50	12.87	36.02	-23.15	12.80
2440	0.500	ePA	19	12.34	17.155	30.00	-17.66	0.50	12.84	36.02	-23.18	12.80
2480	0.500	ePA	38	12.72	18.724	30.00	-17.28	0.50	13.22	36.02	-22.80	12.80
2402	0.500	iPA	1	8.70	7.413	30.00	-21.30	0.50	9.20	36.02	-26.82	9.00
2440	0.500	iPA	19	8.90	7.762	30.00	-21.10	0.50	9.40	36.02	-26.62	9.00
2480	0.500	iPA	38	8.75	7.497	30.00	-21.25	0.50	9.25	36.02	-26.77	9.00
2402	1.0	ePA	0	17.49	56.079	30.00	-12.51	0.50	17.99	36.02	-18.03	17.50
2440	1.0	ePA	19	17.78	59.910	30.00	-12.23	0.50	18.28	36.02	-17.75	17.50
2480	1.0	ePA	39	17.95	62.345	30.00	-12.05	0.50	18.45	36.02	-17.57	17.50
2402	1.0	iPA	0	8.53	7.120	30.00	-21.48	0.50	9.03	36.02	-27.00	9.00
2440	1.0	iPA	19	8.73	7.466	30.00	-21.27	0.50	9.23	36.02	-26.79	9.00
2480	1.0	iPA	39	8.59	7.233	30.00	-21.41	0.50	9.09	36.02	-26.93	9.00
2404	2.0	ePA	1	17.85	60.982	30.00	-12.15	0.50	18.35	36.02	-17.67	17.50
2440	2.0	ePA	19	17.81	60.381	30.00	-12.19	0.50	18.31	36.02	-17.71	17.50
2478	2.0	ePA	38	17.86	61.024	30.00	-12.15	0.50	18.36	36.02	-17.67	17.50
2404	2.0	iPA	1	8.71	7.427	30.00	-21.29	0.50	9.21	36.02	-26.81	9.00
2440	2.0	iPA	19	8.85	7.670	30.00	-21.15	0.50	9.35	36.02	-26.67	9.00
2478	2.0	iPA	38	8.67	7.354	30.00	-21.34	0.50	9.17	36.02	-26.86	9.00

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

Frequency [MHz]	Data Rate [Mbps]	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]						
2402	0.125	ePA	0	9.47	8.851	9.56	9.036	12.53	17.888	30.00	-17.47	5.01	17.54	36.02	-18.48
2440	0.125	ePA	19	9.34	8.590	9.52	8.954	12.44	17.544	30.00	-17.56	5.01	17.45	36.02	-18.57
2480	0.125	ePA	39	9.63	9.183	9.38	8.670	12.52	17.853	30.00	-17.48	5.01	17.53	36.02	-18.49
2402	0.125	iPA	0	9.09	8.110	8.60	7.244	11.86	15.354	30.00	-18.14	5.01	16.87	36.02	-19.15
2440	0.125	iPA	19	9.05	8.035	8.63	7.295	11.86	15.330	30.00	-18.14	5.01	16.87	36.02	-19.15
2480	0.125	iPA	39	9.35	8.610	8.81	7.603	12.10	16.213	30.00	-17.90	5.01	17.11	36.02	-18.91
2402	0.500	ePA	1	9.46	8.831	9.58	9.078	12.53	17.909	30.00	-17.47	5.01	17.54	36.02	-18.48
2440	0.500	ePA	19	9.36	8.630	9.56	9.036	12.47	17.666	30.00	-17.53	5.01	17.48	36.02	-18.54
2480	0.500	ePA	38	9.65	9.226	9.39	8.690	12.53	17.915	30.00	-17.47	5.01	17.54	36.02	-18.48
2402	0.500	iPA	1	9.13	8.185	8.41	6.934	11.80	15.119	30.00	-18.20	5.01	16.81	36.02	-19.21
2440	0.500	iPA	19	9.26	8.433	8.67	7.362	11.99	15.795	30.00	-18.01	5.01	17.00	36.02	-19.02
2480	0.500	iPA	38	8.99	7.925	8.50	7.079	11.76	15.004	30.00	-18.24	5.01	16.77	36.02	-19.25
2402	1.0	ePA	0	17.16	52.000	17.60	57.544	20.40	109.544	30.00	-8.60	5.01	25.41	36.02	-10.61
2440	1.0	ePA	19	17.04	50.582	17.69	58.749	20.39	109.331	30.00	-8.61	5.01	25.40	36.02	-10.62
2480	1.0	ePA	39	17.46	55.719	17.76	59.704	20.62	115.422	30.00	-8.38	5.01	25.63	36.02	-10.39
2402	1.0	iPA	0	9.05	8.035	8.66	7.345	11.87	15.380	30.00	-18.13	5.01	16.88	36.02	-19.14
2440	1.0	iPA	19	9.35	8.610	8.84	7.834	12.16	16.444	30.00	-17.84	5.01	17.17	36.02	-18.85
2480	1.0	iPA	39	9.16	8.241	8.91	7.780	12.05	16.022	30.00	-17.95	5.01	17.06	36.02	-18.96
2404	2.0	ePA	1	17.01	50.234	17.37	54.576	20.20	104.810	30.00	-8.80	5.01	25.21	36.02	-10.81
2440	2.0	ePA	19	16.82	48.084	17.48	55.976	20.17	104.060	30.00	-8.83	5.01	25.18	36.02	-10.84
2478	2.0	ePA	38	16.82	48.084	17.61	57.677	20.24	105.761	30.00	-8.76	5.01	25.25	36.02	-10.77
2404	2.0	iPA	1	9.39	8.690	8.63	7.295	12.04	15.984	30.00	-17.96	5.01	17.05	36.02	-18.97
2440	2.0	iPA	19	9.26	8.433	8.67	7.362	12.08	16.142	30.00	-17.92	5.01	17.09	36.02	-18.93
2478	2.0	iPA	38	9.40	8.710	8.52	7.112	11.99	15.822	30.00	-18.01	5.01	17.00	36.02	-19.02

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

Frequency [MHz]	Data Rate [Mbps]	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]								
2402	0.125	ePA	0	9.47	8.851	9.39	8.690	12.44	17.541	30.00	-17.56	4.35	16.79	36.02	-19.23		
2440	0.125	ePA	19	9.34	8.590	9.35	8.610	12.36	17.200	30.00	-17.64	4.35	16.70	36.02	-19.32		
2480	0.125	ePA	39	9.63	9.183	9.22	8.356	12.44	17.539	30.00	-17.56	4.35	16.79	36.02	-19.23		
2402	0.125	iPA	0	9.28	8.472	8.60	7.244	11.96	15.717	30.00	-18.04	4.35	16.31	36.02	-19.71		
2440	0.125	iPA	19	9.27	8.453	8.79	7.568	12.05	16.021	30.00	-17.95	4.35	16.39	36.02	-19.63		
2480	0.125	iPA	39	9.48	8.872	8.68	7.379	12.11	16.251	30.00	-17.89	4.35	16.46	36.02	-19.56		
2402	0.500	ePA	1	9.46	8.831	9.40	8.710	12.44	17.540	30.00	-17.56	4.35	16.79	36.02	-19.23		
2440	0.500	ePA	19	9.36	8.630	9.38	8.670	12.38	17.299	30.00	-17.62	4.35	16.73	36.02	-19.29		
2480	0.500	ePA	38	9.65	9.226	9.25	8.414	12.46	17.640	30.00	-17.54	4.35	16.81	36.02	-19.21		
2402	0.500	iPA	1	9.33	8.570	8.59	7.228	11.99	15.798	30.00	-18.01	4.35	16.33	36.02	-19.69		
2440	0.500	iPA	19	9.26	8.433	8.63	7.638	12.06	16.072	30.00	-17.94	4.35	16.41	36.02	-19.61		
2480	0.500	iPA	38	9.45	8.810	8.74	7.482	12.12	16.292	30.00	-17.88	4.35	16.47	36.02	-19.55		
2402	1.0	ePA	0	17.16	52.000	17.89	61.518	20.55	113.517	30.00	-8.45	4.35	24.90	36.02	-11.12		
2440	1.0	ePA	19	17.04	50.582	17.88	61.376	20.49	111.959	30.00	-8.51	4.35	24.84	36.02	-11.18		
2480	1.0	ePA	39	17.46	55.719	17.19	52.360	20.34	108.079	30.00	-8.66	4.35	24.68	36.02	-11.34		
2402	1.0	iPA	0	9.05	8.035	8.41	6.934	11.75	14.970	30.00	-18.25	4.35	16.10	36.02	-19.92		
2440	1.0	iPA	19	9.35	8.610	8.64	7.311	12.02	15.921	30.00	-17.98	4.35	16.37	36.02	-19.65		
2480	1.0	iPA	39	9.16	8.241	8.70	7.413	11.95	15.654	30.00	-18.05	4.35	16.29	36.02	-19.73		
2404	2.0	ePA	1	17.01	50.234	17.79	60.117	20.43	110.352	30.00	-8.57	4.35	24.77	36.02	-11.25		
2440	2.0	ePA	19	16.82	48.084	17.40	54.954	20.13	103.038	30.00	-8.87	4.35	24.48	36.02	-11.54		
2478	2.0	ePA	38	16.82	48.084	17.10	51.286	19.97	99.370	30.00	-10.03	4.35	24.32	36.02	-11.70		
2404	2.0	iPA	1	9.39	8.690	8.73	7.464	12.08	16.154	30.00	-17.92	4.35	16.43	36.02	-19.59		
2440	2.0	iPA	19	9.26	8.433	8.69	7.745	12.09	16.178	30.00	-17.91	4.35	16.44	36.02	-19.58		
2478	2.0	iPA	38	9.40	8.710	8.93	7.816	12.18	16.526	30.00	-17.82	4.35	16.53	36.02	-19.49		

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

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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 Section 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 2402MHz the average conducted output power was measured to be 9.47 dBm for Antenna WF8 and 9.56 dBm for Antenna WF7.

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

$$(9.47 \text{ dBm} + 9.56 \text{ dBm}) = (8.851 \text{ mW} + 9.036 \text{ mW}) = 17.888 \text{ mW} = 12.53 \text{ dBm}$$

Sample e.i.r.p. Calculation:

At 2402MHz, the average conducted output power was calculated to be 12.53 dBm with directional gain of 5.01 dBi.

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

$$12.53 \text{ dBm} + 5.01 \text{ dBi} = 17.54 \text{ dBm}$$

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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]	Data Rate [Mbps]	Power Scheme	Channel No.	Measured Power Density [dBm/3kHz]	Max Power Density [dBm/3kHz]	Margin [dB]
2402	0.125	ePA	0	6.20	8.0	-1.80
2440	0.125	ePA	19	6.00	8.0	-2.00
2480	0.125	ePA	39	6.67	8.0	-1.33
2402	0.125	iPA	0	3.07	8.0	-4.94
2440	0.125	iPA	19	3.21	8.0	-4.79
2480	0.125	iPA	39	3.38	8.0	-4.62
2402	0.500	ePA	0	6.04	8.0	-1.96
2440	0.500	ePA	19	5.82	8.0	-2.18
2480	0.500	ePA	39	6.46	8.0	-1.54
2402	0.500	iPA	0	2.91	8.0	-5.09
2440	0.500	iPA	19	3.06	8.0	-4.94
2480	0.500	iPA	39	3.24	8.0	-4.76
2402	1.0	ePA	0	0.57	8.0	-7.43
2440	1.0	ePA	19	0.89	8.0	-7.11
2480	1.0	ePA	39	0.79	8.0	-7.21
2402	1.0	iPA	0	-7.65	8.0	-15.65
2440	1.0	iPA	19	-7.33	8.0	-15.33
2480	1.0	iPA	39	-7.42	8.0	-15.42
2404	2.0	ePA	1	-1.58	8.0	-9.58
2440	2.0	ePA	19	-1.93	8.0	-9.93
2478	2.0	ePA	38	-1.37	8.0	-9.37
2404	2.0	iPA	1	-9.17	8.0	-17.17
2440	2.0	iPA	19	-9.60	8.0	-17.60
2478	2.0	iPA	38	-8.91	8.0	-16.91

Table 7-15. Conducted Power Density Measurements Antenna WF8

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Plot 7-37. Power Spectral Density Plot Antenna WF8 (Bluetooth (LE), 125kbps, ePA – Ch. 0)



Plot 7-38. Power Spectral Density Plot Antenna WF8 (Bluetooth (LE), 125kbps, ePA – Ch. 19)

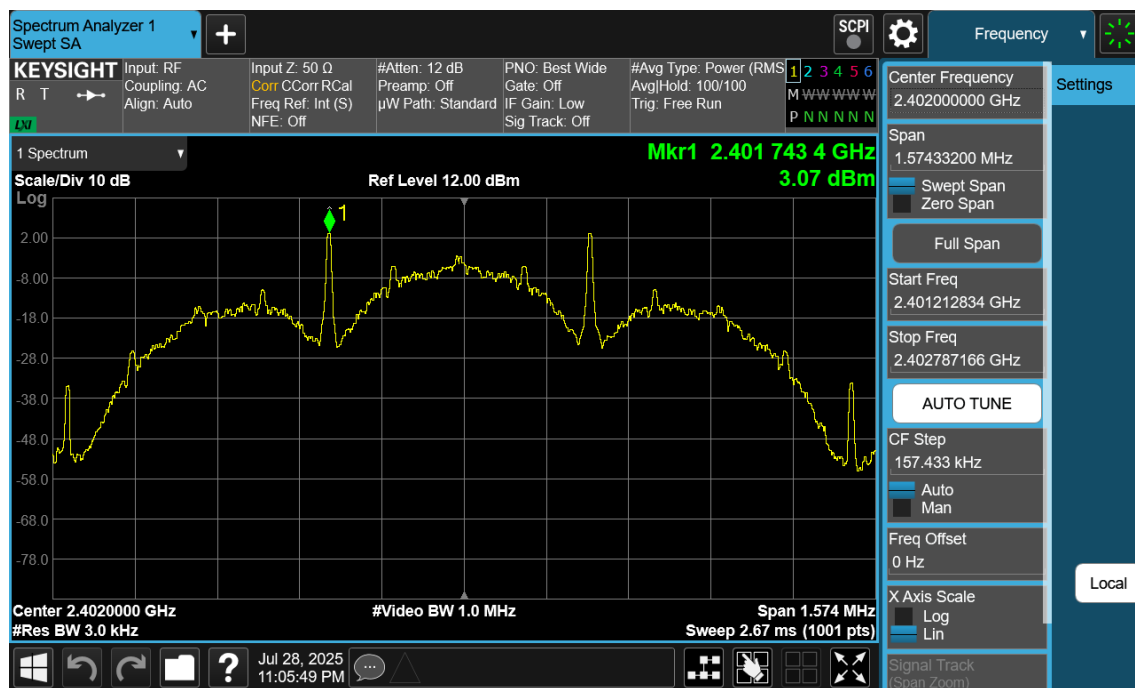
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Plot 7-39. Power Spectral Density Plot Antenna WF8 (Bluetooth (LE), 125kbps, ePA – Ch. 39)



Plot 7-40. Power Spectral Density Plot Antenna WF8 (Bluetooth (LE), 125kbps, iPA – Ch. 0)

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Plot 7-41. Power Spectral Density Plot Antenna WF8 (Bluetooth (LE), 125kbps, iPA – Ch. 19)

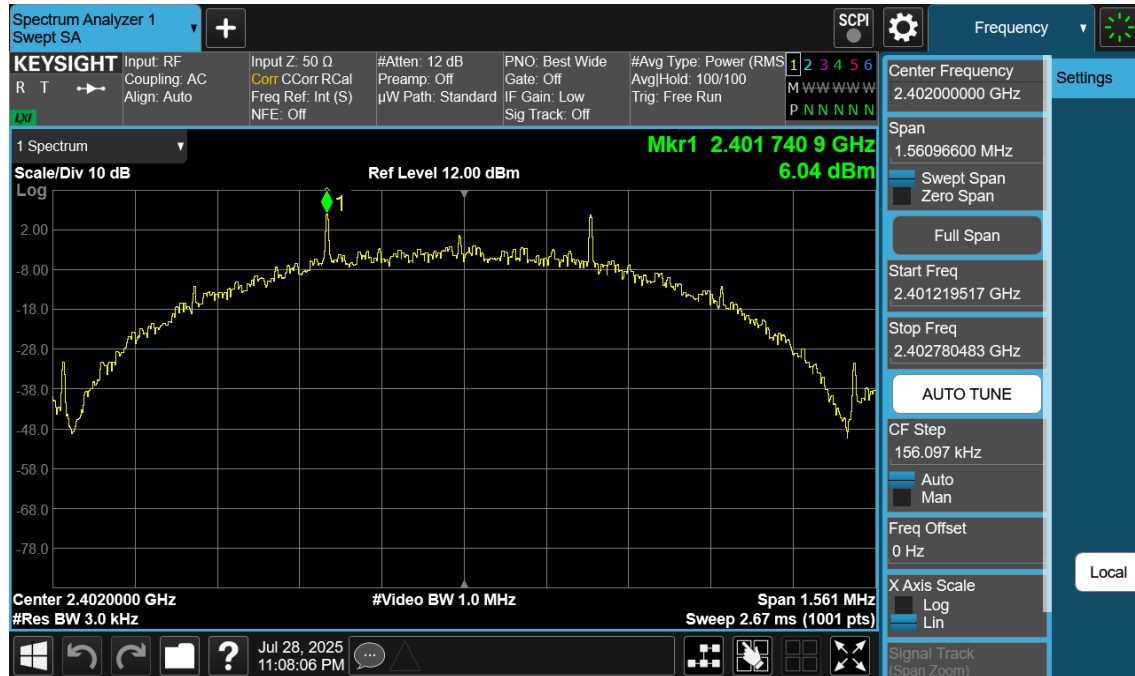


Plot 7-42. Power Spectral Density Plot Antenna WF8 (Bluetooth (LE), 125kbps, iPA – Ch. 39)

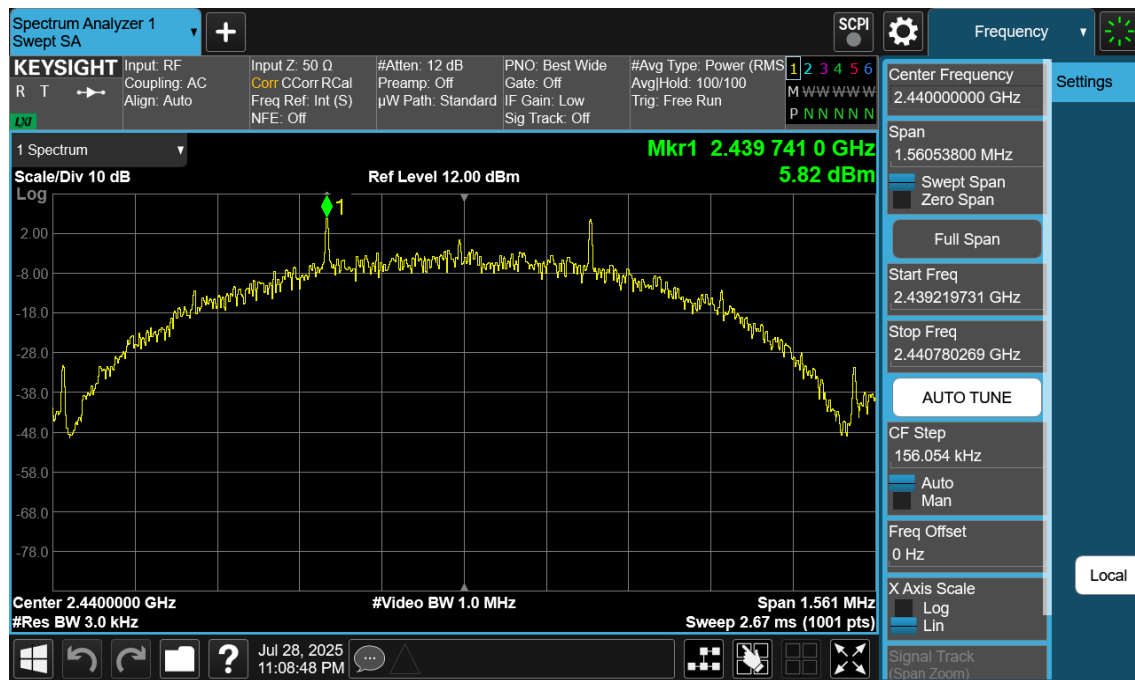
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Plot 7-43. Power Spectral Density Plot Antenna WF8 (Bluetooth (LE), 500kbps, ePA – Ch. 0)



Plot 7-44. Power Spectral Density Plot Antenna WF8 (Bluetooth (LE), 500kbps, ePA – Ch. 19)

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