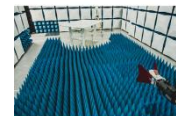




ELEMENT MATERIALS TECHNOLOGY

(formerly PCTEST)
18855 Adams Court, Morgan Hill, CA 95037 USA
Tel. 408.538.5600
<http://www.element.com>



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 - 07/14/2025

Test Report Issue Date:

8/29/2025

Test Site/Location:

Element Materials Technolgy, Morgan Hill, CA, USA

Test Report Serial No.:

1C2504170038-08.BCG

FCC ID:

BCGA3357

IC:

579C-A3357

APPLICANT:

Apple Inc.

Application Type:

Certification

Model/HVIN:

A3357

EUT Type:

Tablet Device

Max. RF Output Power:

102.565 mW (20.11 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: BCGA3357 and IC: 579C-A3357**. 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.: 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.

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 [%]	Duty Cycle [%]	DCCF [dB]	DCCF [dB]	DCCF [dB]	DCCF [dB]	Duty Cycle [%]	DCCF [dB]
125k	ePA	96.659	0.148	97.111	0.127	97.327	0.118	97.105	0.128	97.333	0.117
	iPA	96.659	0.148	97.111	0.127	97.327	0.118	97.105	0.128	97.333	0.117
500k	ePA	90.255	0.445	90.487	0.434	90.487	0.434	90.255	0.445	90.484	0.434
	iPA	90.255	0.445	90.487	0.434	90.487	0.434	90.255	0.445	90.484	0.434
1M	ePA	84.746	0.719	84.632	0.725	84.810	0.716	84.842	0.714	84.810	0.716
	iPA	84.746	0.719	84.632	0.725	84.810	0.716	84.842	0.714	84.810	0.716
2M	ePA	56.792	2.457	56.742	2.461	56.309	2.494	56.777	2.458	56.685	2.465
	iPA	56.792	2.457	56.742	2.461	56.309	2.494	56.777	2.458	56.685	2.465

Table 2-2. Measured Duty Cycles

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 5GHz OFDM 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	3.8	2.3	1.1

Table 2-4. Highest Antenna Gain

2.4 Test Support Equipment

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

Table 2-5. 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:

1. 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.
2. * 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: BCGA3357
 IC: 579C-A3357
 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.

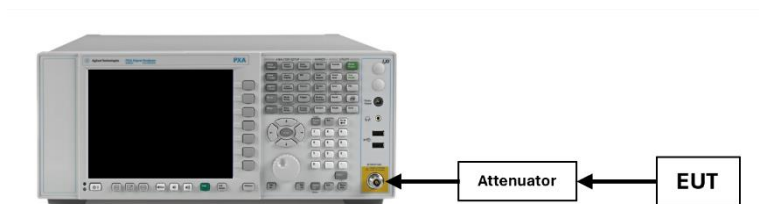


Figure 7-1. Test Instrument & Measurement Setup

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

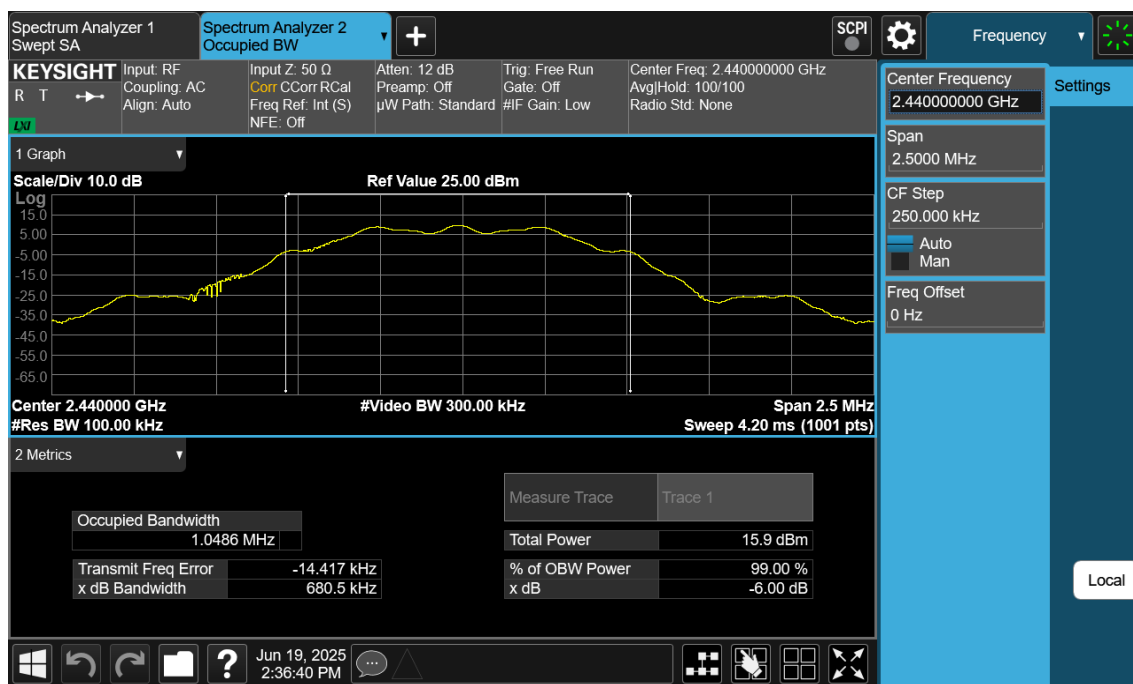
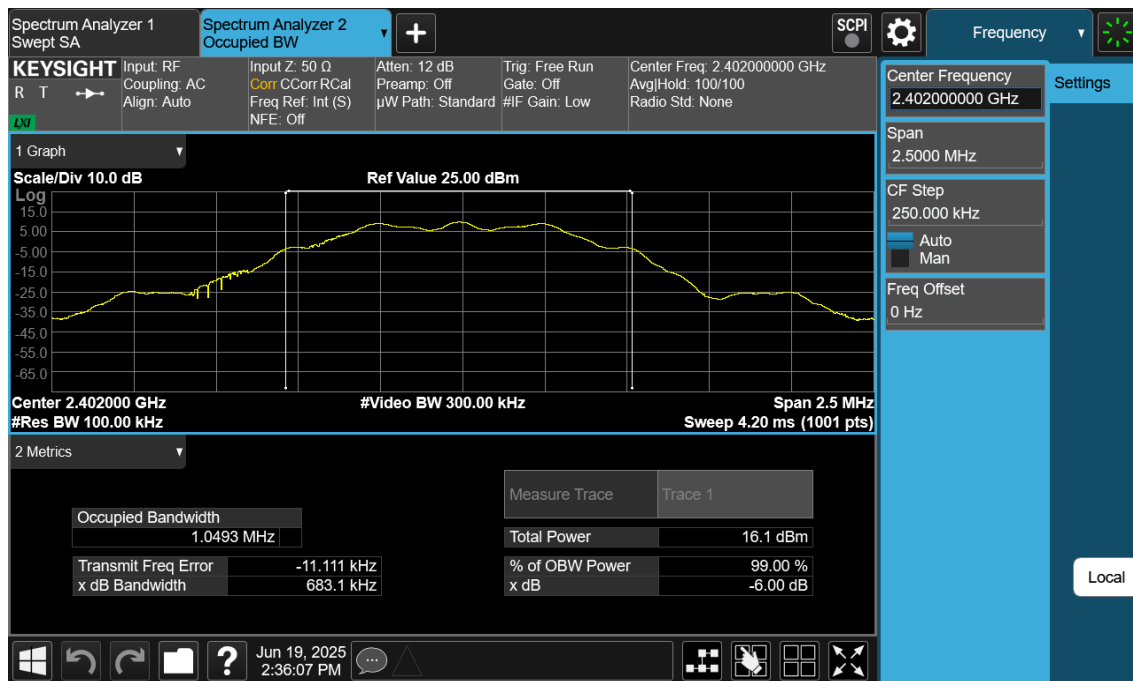
Frequency [MHz]	Data Rate [Mbps]	Power Scheme	Channel	Measured 99% Occupied Bandwidth [MHz]	Measured 6dB Bandwidth [MHz]	Minimum 6dB Bandwidth [MHz]	Pass/Fail
2402	0.125	ePA	0	1.049	0.683	0.50	Pass
2440	0.125	ePA	19	1.049	0.680	0.50	Pass
2480	0.125	ePA	39	1.050	0.675	0.50	Pass
2402	0.500	ePA	0	1.040	0.660	0.50	Pass
2440	0.500	ePA	19	1.040	0.659	0.50	Pass
2480	0.500	ePA	39	1.040	0.661	0.50	Pass
2402	1.0	ePA	0	1.033	0.666	0.50	Pass
2440	1.0	ePA	19	1.035	0.665	0.50	Pass
2480	1.0	ePA	39	1.034	0.667	0.50	Pass
2404	2.0	ePA	1	2.044	1.182	0.50	Pass
2440	2.0	ePA	19	2.046	1.182	0.50	Pass
2478	2.0	ePA	38	2.045	1.182	0.50	Pass

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

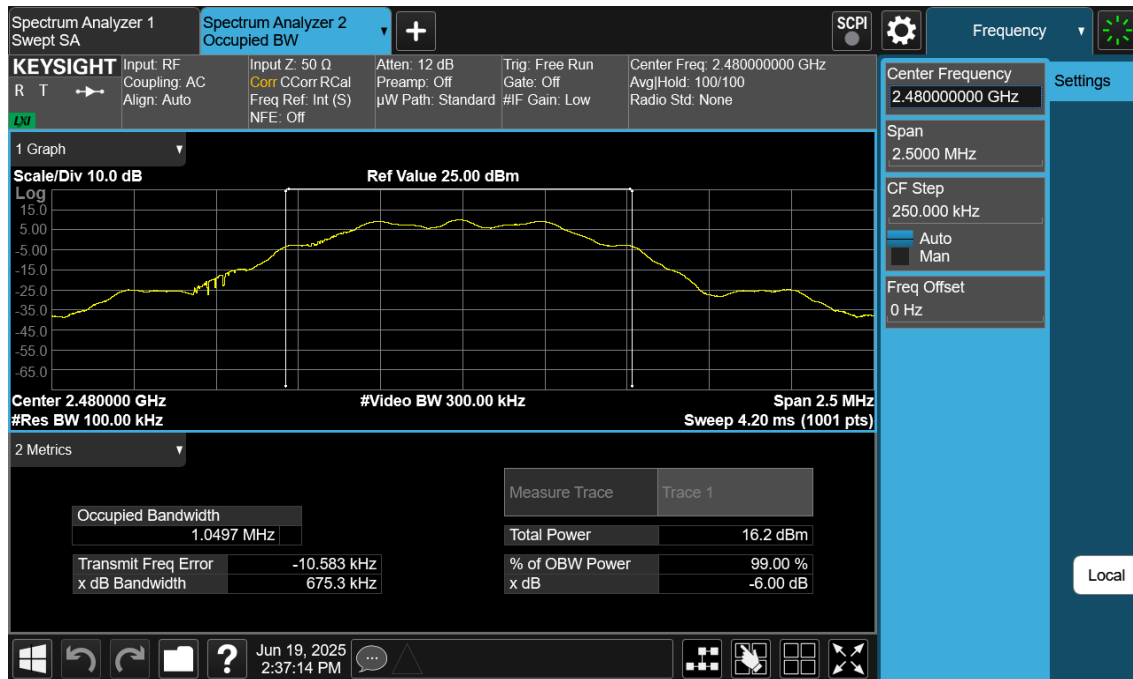
FCC ID: BCGA3357 IC: 579C-A3357		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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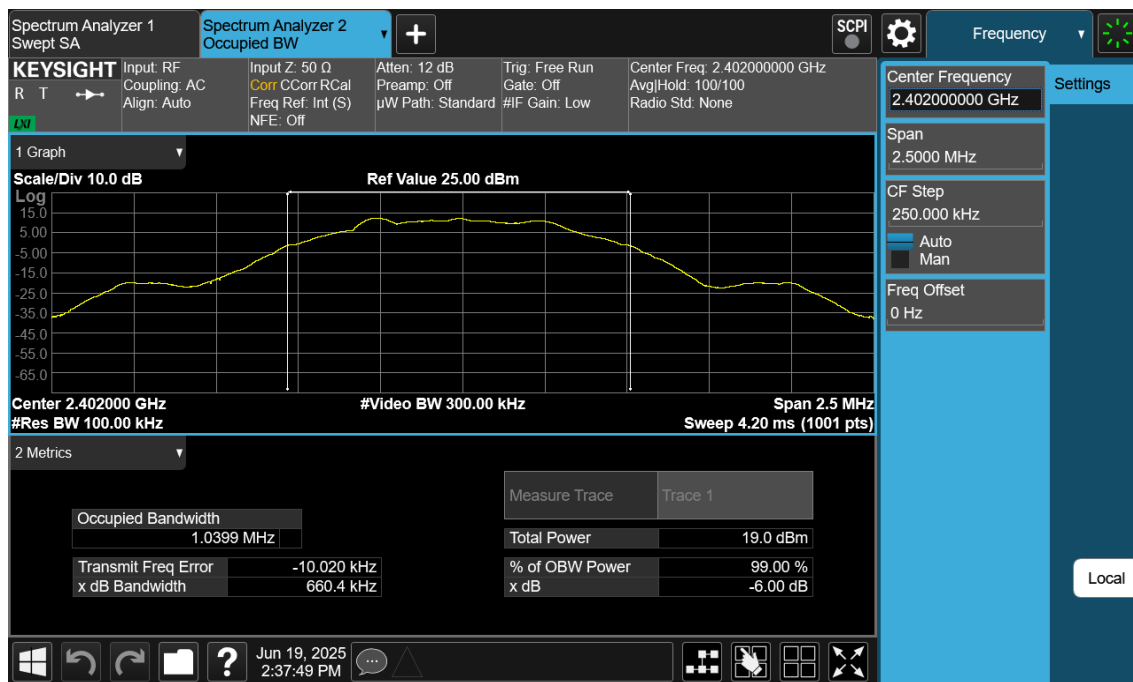
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Plot 7-3. 6dB BW & 99% OBW Plot Antenna WF8 (Bluetooth (LE), 125kbps, ePA – Ch. 39)

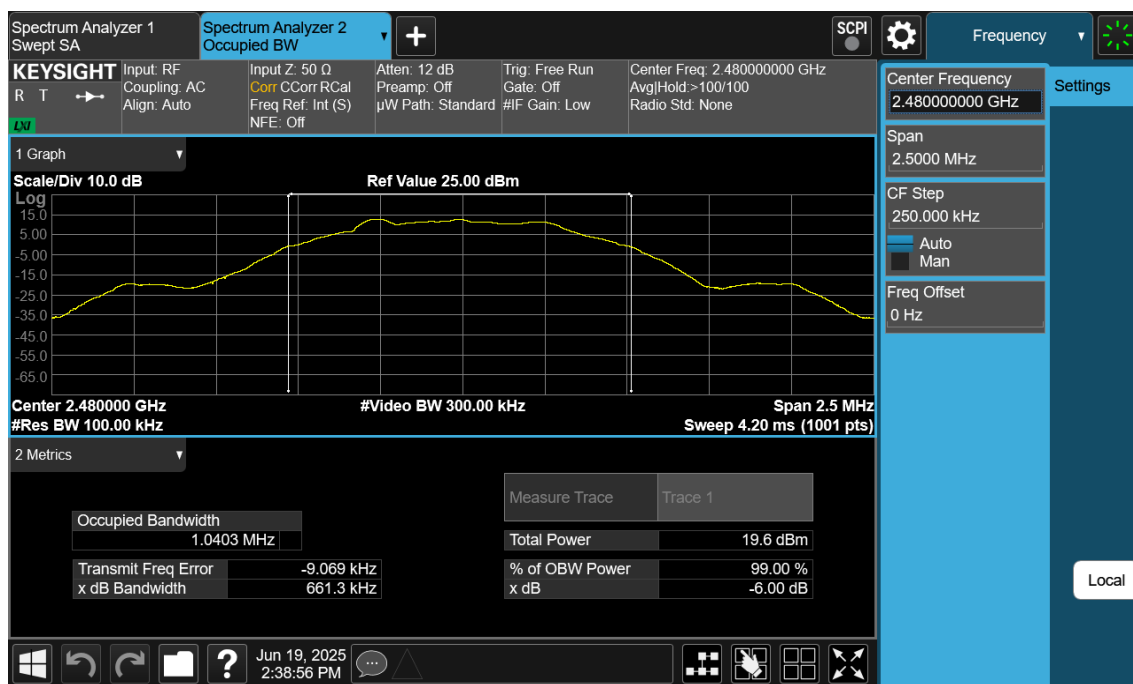
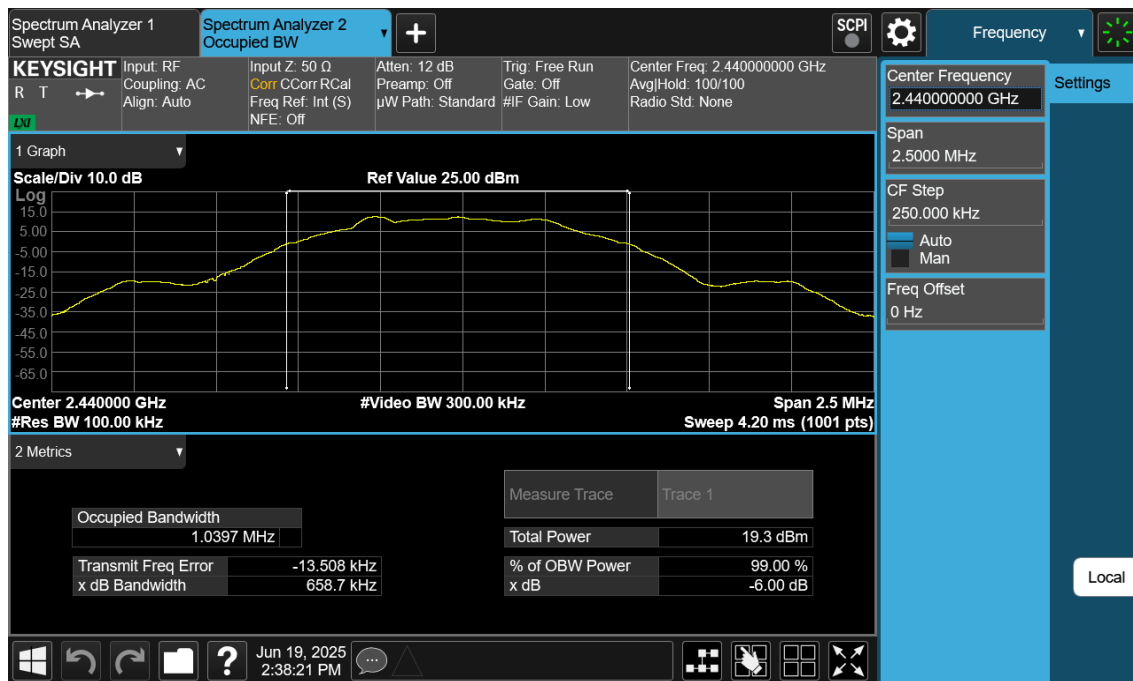


Plot 7-4. 6dB BW & 99% OBW Plot Antenna WF8 (Bluetooth (LE), 500kbps, ePA – Ch. 0)

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Plot 7-11. 6dB BW & 99% OBW Plot Antenna WF8 (Bluetooth (LE), 2Mbps, ePA – Ch. 19)



Plot 7-12. 6dB BW & 99% OBW Plot Antenna WF8 (Bluetooth (LE), 2Mbps, ePA – Ch. 38)

FCC ID: BCGA3357 IC: 579C-A3357		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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7.2.2 Antenna WF7

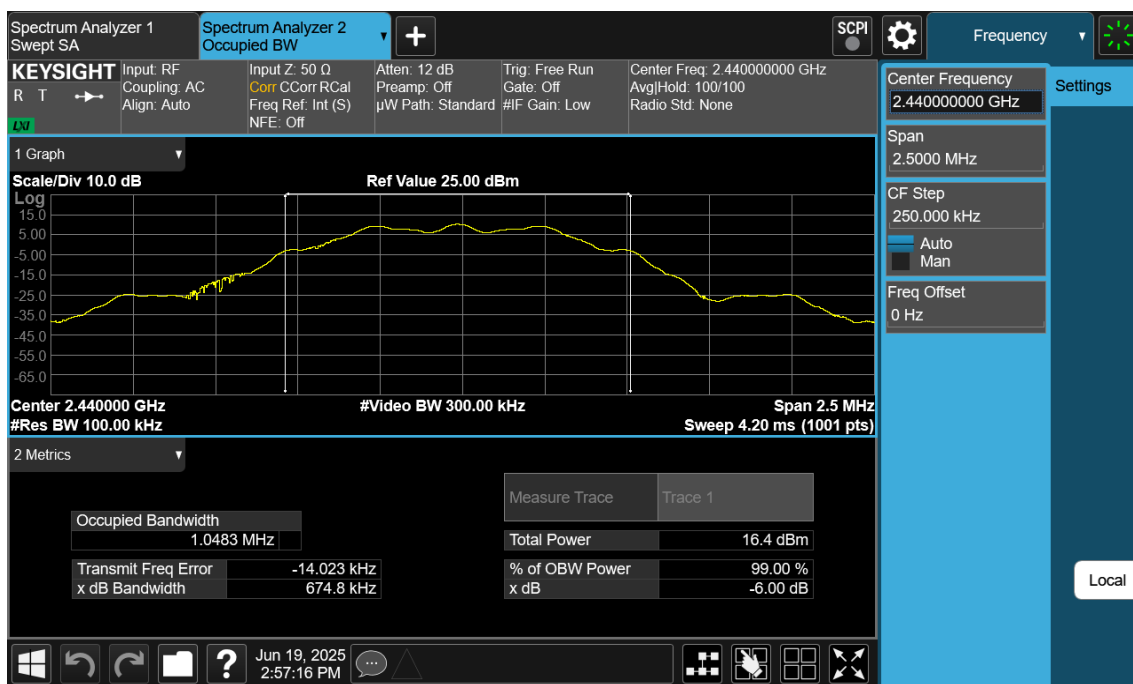
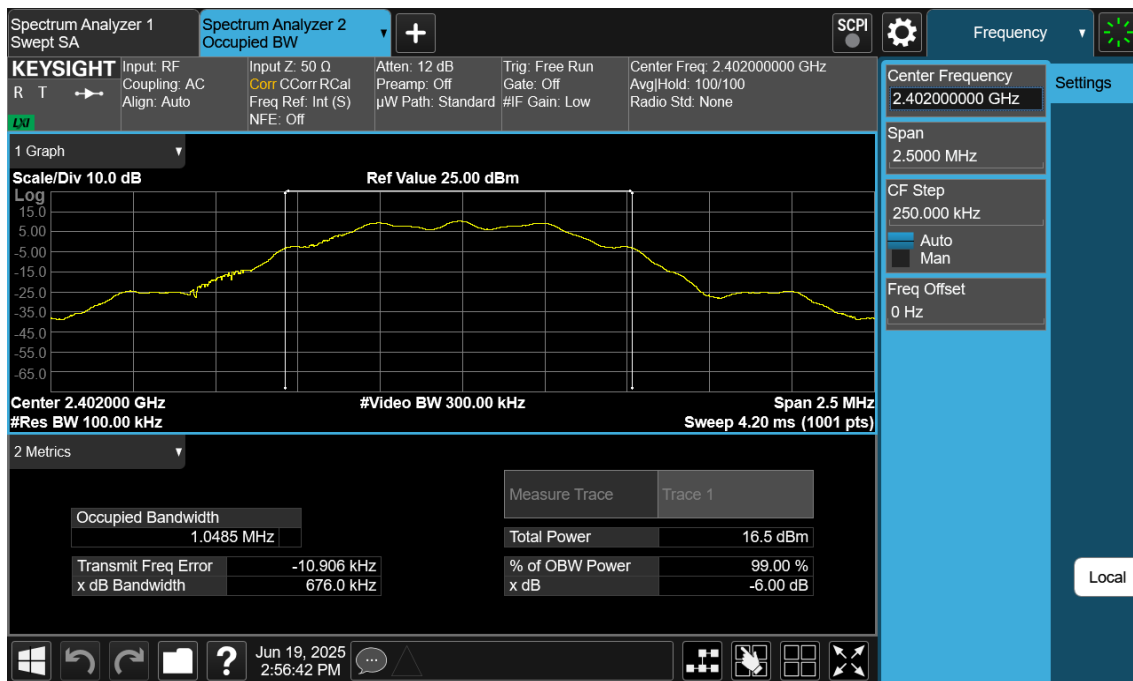
Frequency [MHz]	Data Rate [Mbps]	Power Scheme	Channel	Measured 99% Occupied Bandwidth [MHz]	Measured 6dB Bandwidth [MHz]	Minimum 6dB Bandwidth [MHz]	Pass/Fail
2402	0.125	ePA	0	1.048	0.676	0.50	Pass
2440	0.125	ePA	19	1.048	0.675	0.50	Pass
2480	0.125	ePA	39	1.050	0.684	0.50	Pass
2402	0.500	ePA	0	1.039	0.660	0.50	Pass
2440	0.500	ePA	19	1.039	0.660	0.50	Pass
2480	0.500	ePA	39	1.040	0.660	0.50	Pass
2402	1.0	ePA	0	1.033	0.666	0.50	Pass
2440	1.0	ePA	19	1.035	0.663	0.50	Pass
2480	1.0	ePA	39	1.033	0.666	0.50	Pass
2404	2.0	ePA	1	2.044	1.180	0.50	Pass
2440	2.0	ePA	19	2.045	1.180	0.50	Pass
2478	2.0	ePA	38	2.044	1.182	0.50	Pass

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

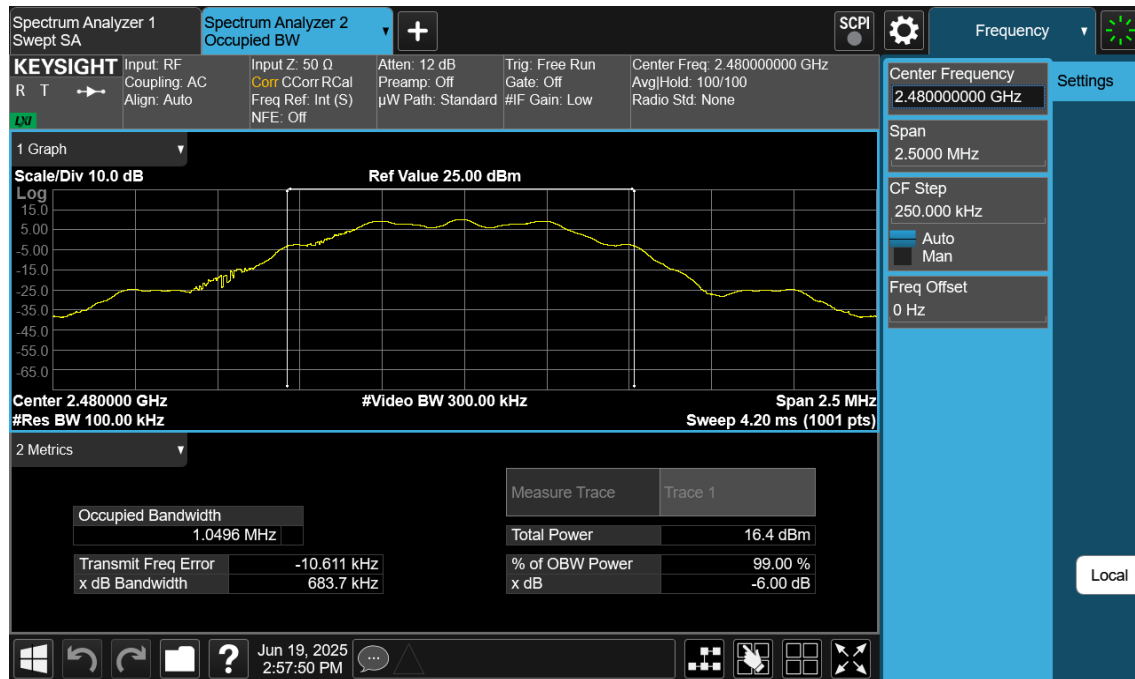
FCC ID: BCGA3357 IC: 579C-A3357		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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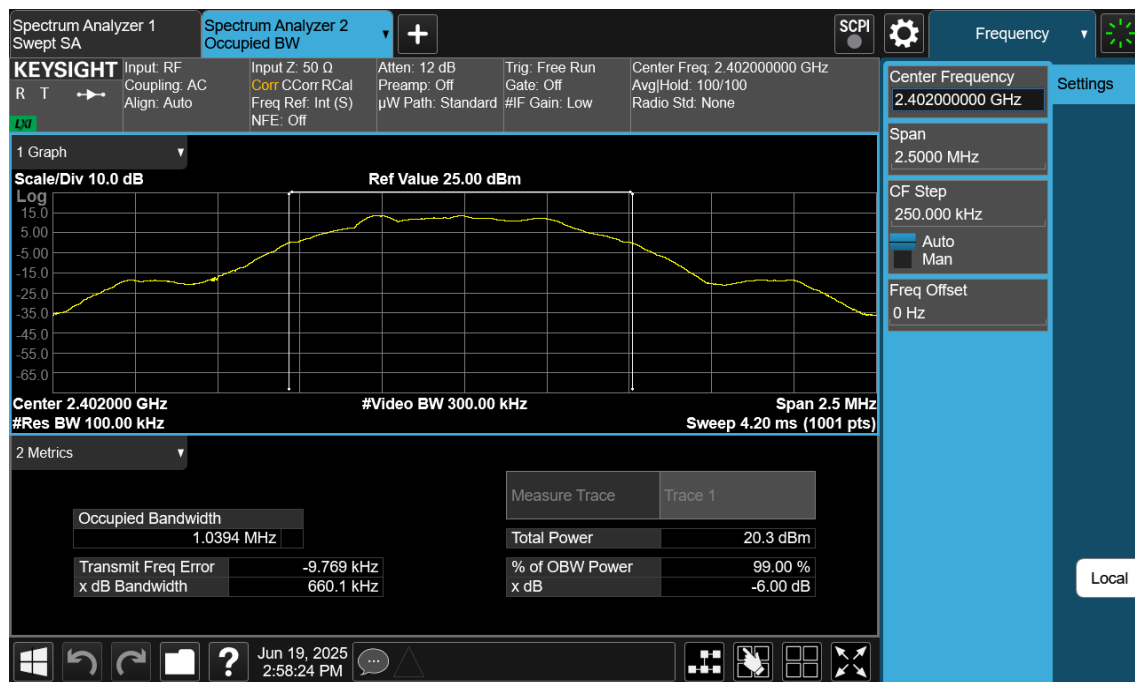
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Plot 7-15. 6dB BW & 99% OBW Plot Antenna WF7 (Bluetooth (LE), 125kbps, ePA – Ch. 39)



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

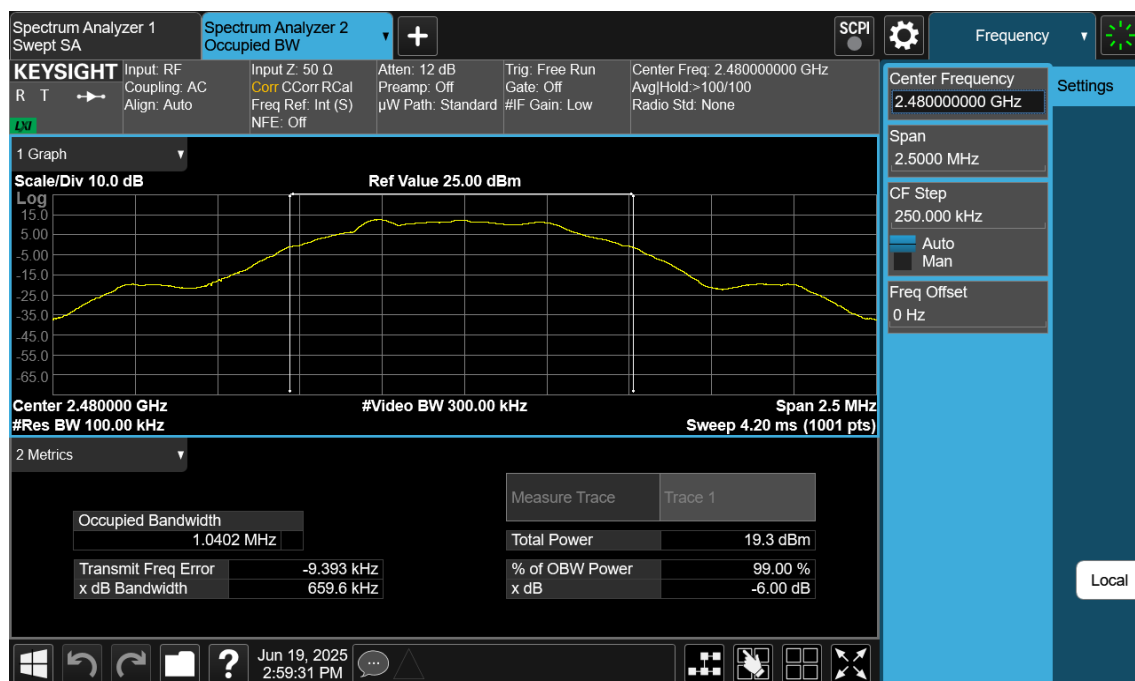
FCC ID: BCGA3357 IC: 579C-A3357		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-17.6dB BW & 99% OBW Plot Antenna WF7 (Bluetooth (LE), 500kbps, ePA – Ch. 19)

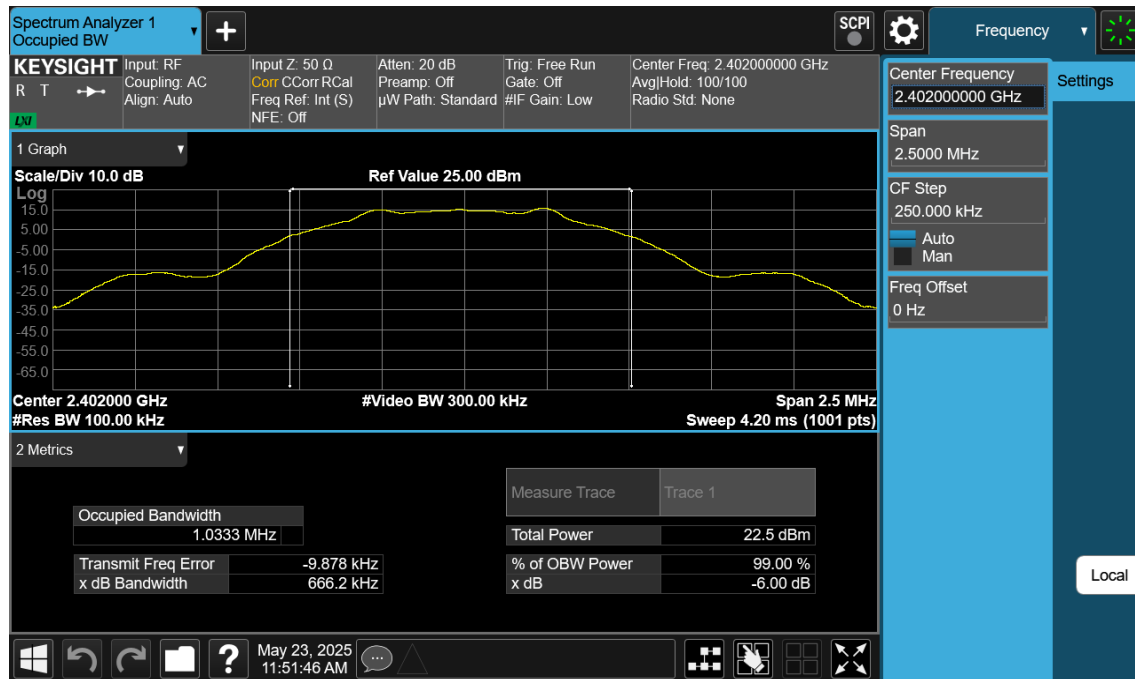


Plot 7-18. 6dB BW & 99% OBW Plot Antenna WF7 (Bluetooth (LE), 500kbps, ePA – Ch. 39)

FCC ID: BCGA3357 IC: 579C-A3357		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: BCGA3357 IC: 579C-A3357		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-21. 6dB BW & 99% OBW Plot Antenna WF7 (Bluetooth (LE), 1Mbps, ePA – Ch. 39)

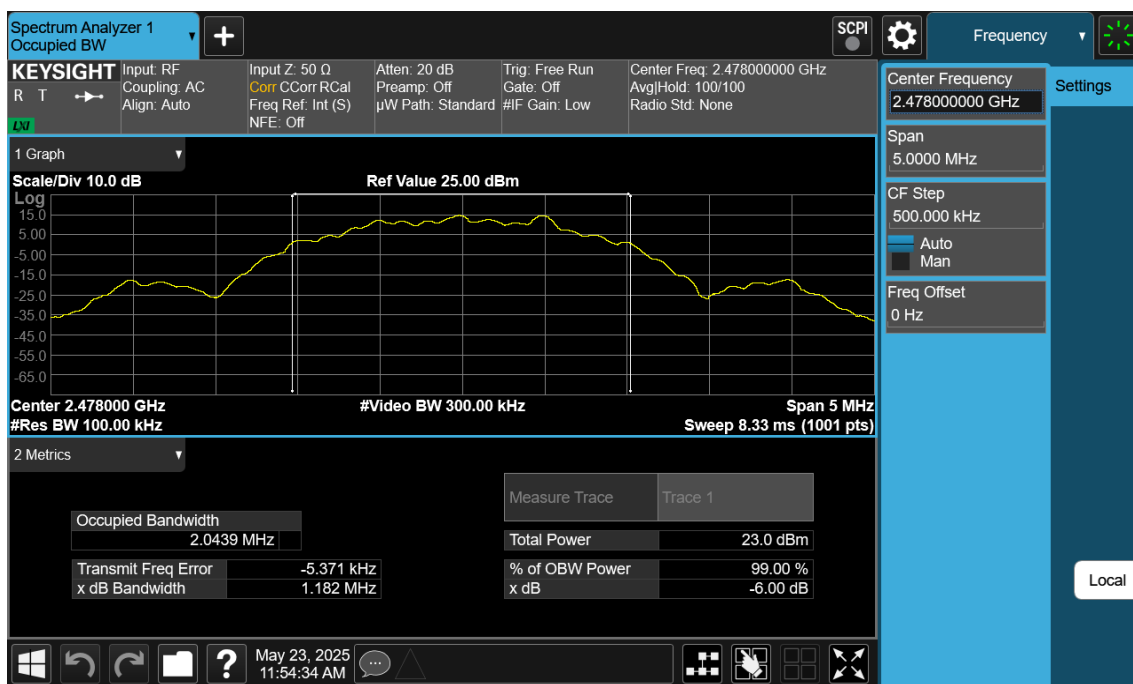


Plot 7-22. 6dB BW & 99% OBW Plot Antenna WF7 (Bluetooth (LE), 2Mbps, ePA – Ch. 1)

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

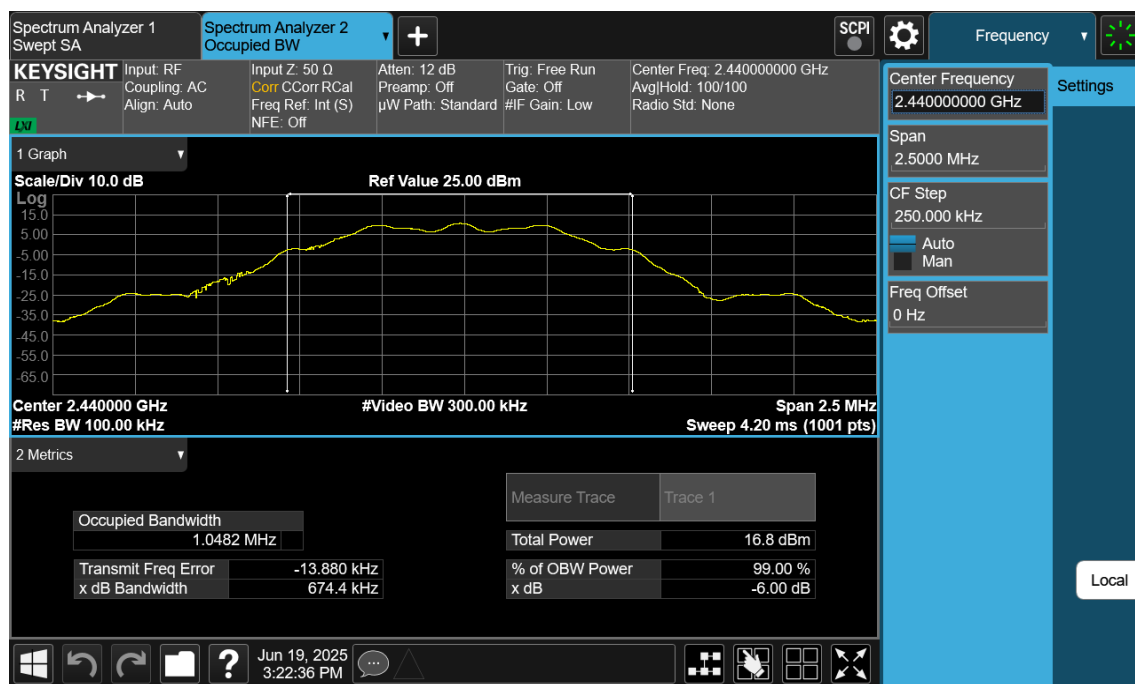
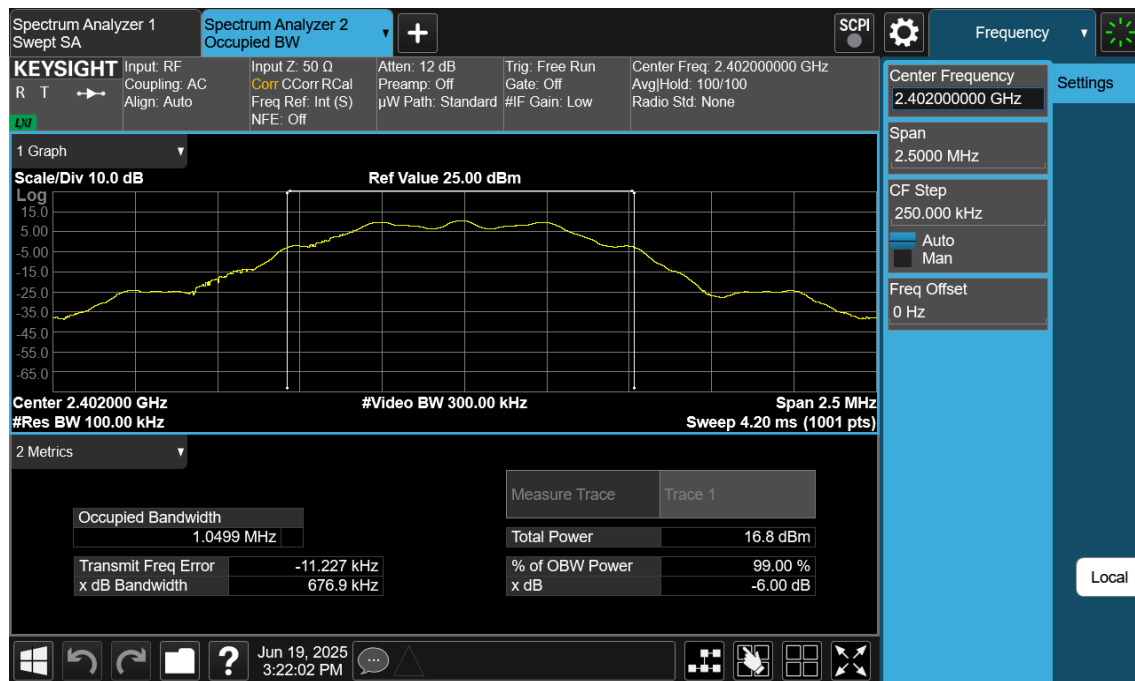
Frequency [MHz]	Data Rate [Mbps]	Power Scheme	Channel	Measured 99% Occupied Bandwidth [MHz]	Measured 6dB Bandwidth [MHz]	Minimum 6dB Bandwidth [MHz]	Pass/Fail
2402	0.125	ePA	0	1.050	0.677	0.50	Pass
2440	0.125	ePA	19	1.048	0.674	0.50	Pass
2480	0.125	ePA	39	1.049	0.677	0.50	Pass
2402	0.500	ePA	0	1.040	0.660	0.50	Pass
2440	0.500	ePA	19	1.039	0.660	0.50	Pass
2480	0.500	ePA	39	1.039	0.661	0.50	Pass
2402	1.0	ePA	0	1.033	0.666	0.50	Pass
2440	1.0	ePA	19	1.034	0.664	0.50	Pass
2480	1.0	ePA	39	1.033	0.666	0.50	Pass
2404	2.0	ePA	1	2.044	1.180	0.50	Pass
2440	2.0	ePA	19	2.044	1.180	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: BCGA3357 IC: 579C-A3357		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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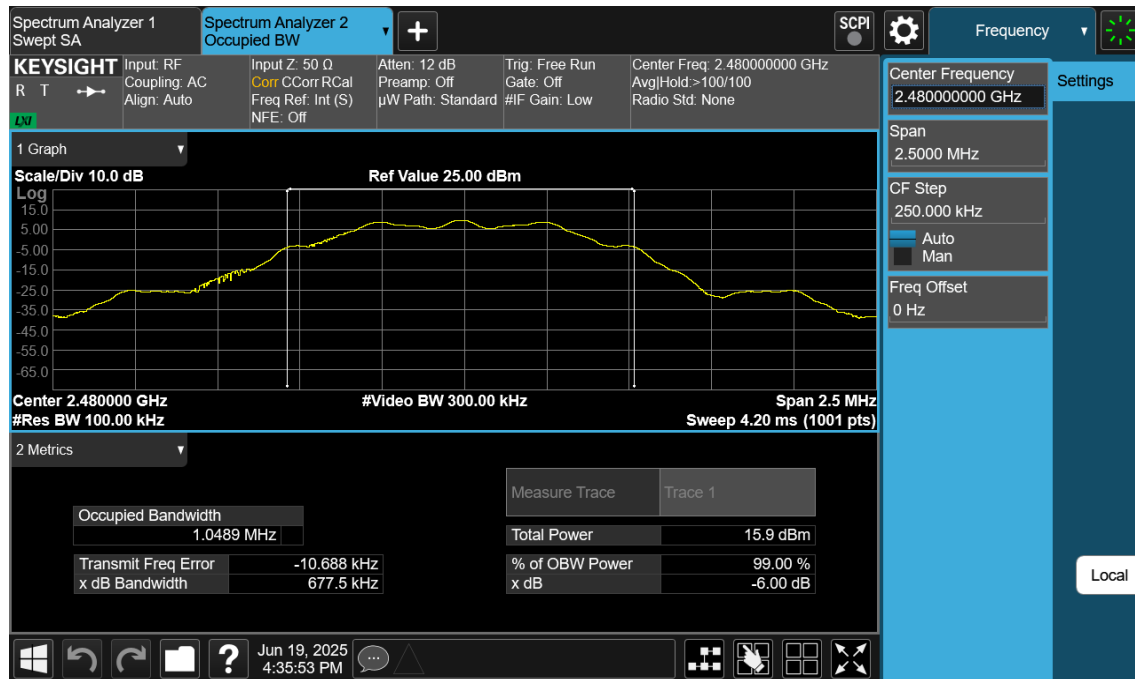
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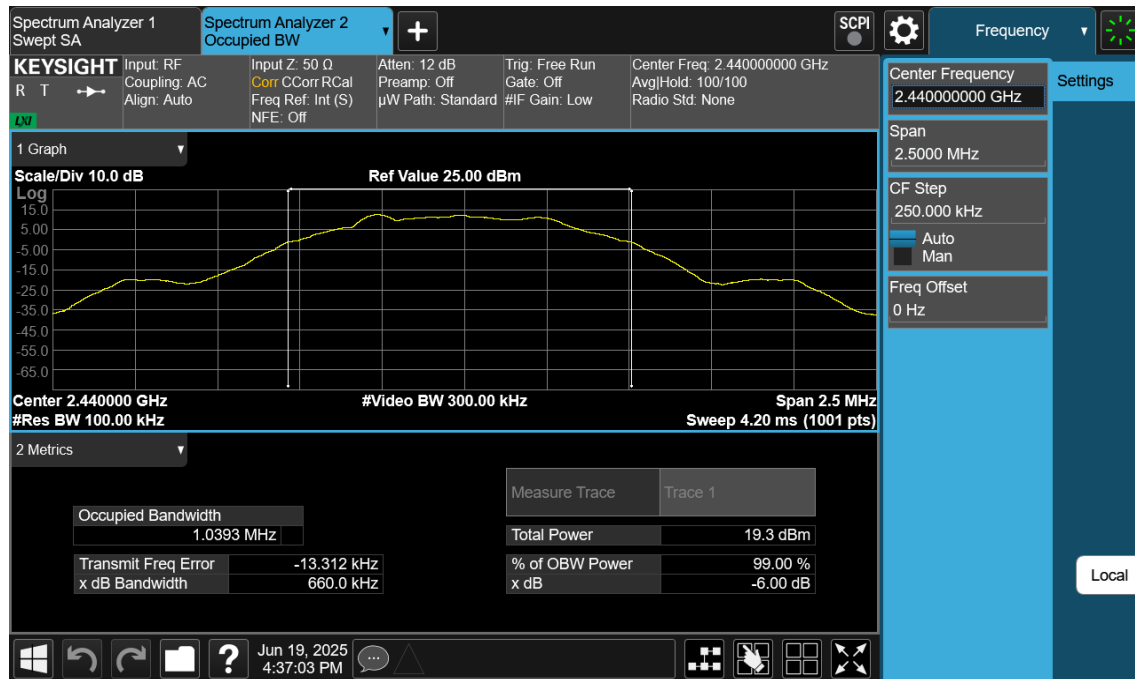


Plot 7-27. 6dB BW & 99% OBW Plot Antenna WF9 (Bluetooth (LE), 125kbps, ePA – Ch. 39)

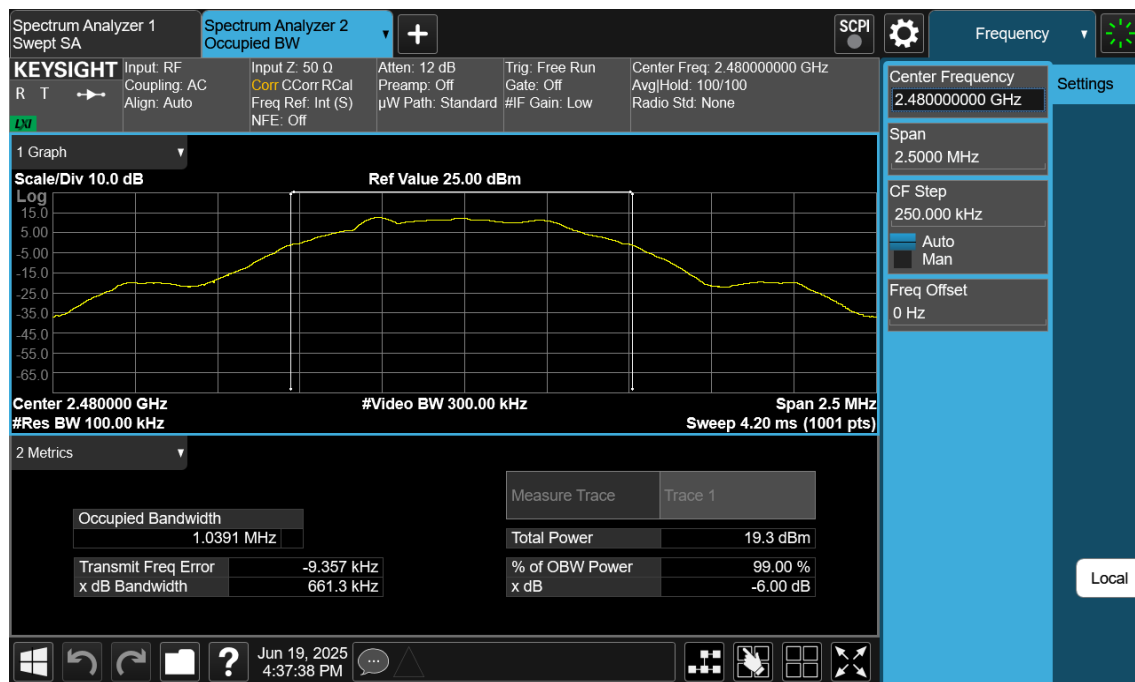


Plot 7-28. 6dB BW & 99% OBW Plot Antenna WF9 (Bluetooth (LE), 500kbps, ePA – Ch. 0)

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 WF9 (Bluetooth (LE), 500kbps, ePA – Ch. 19)

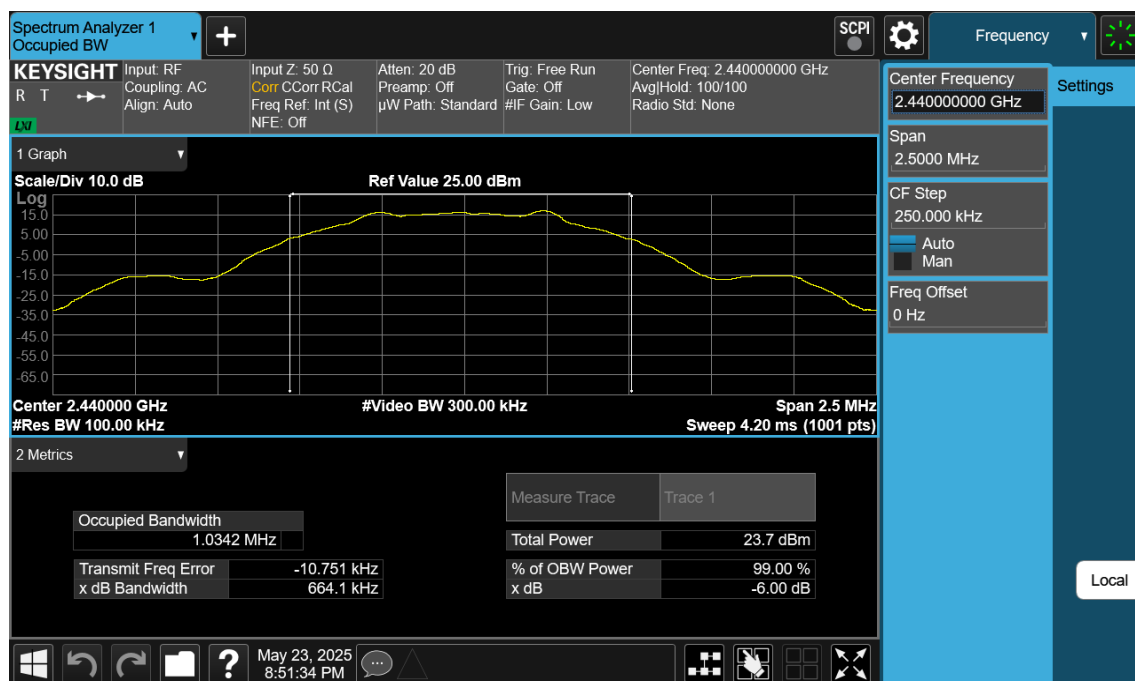
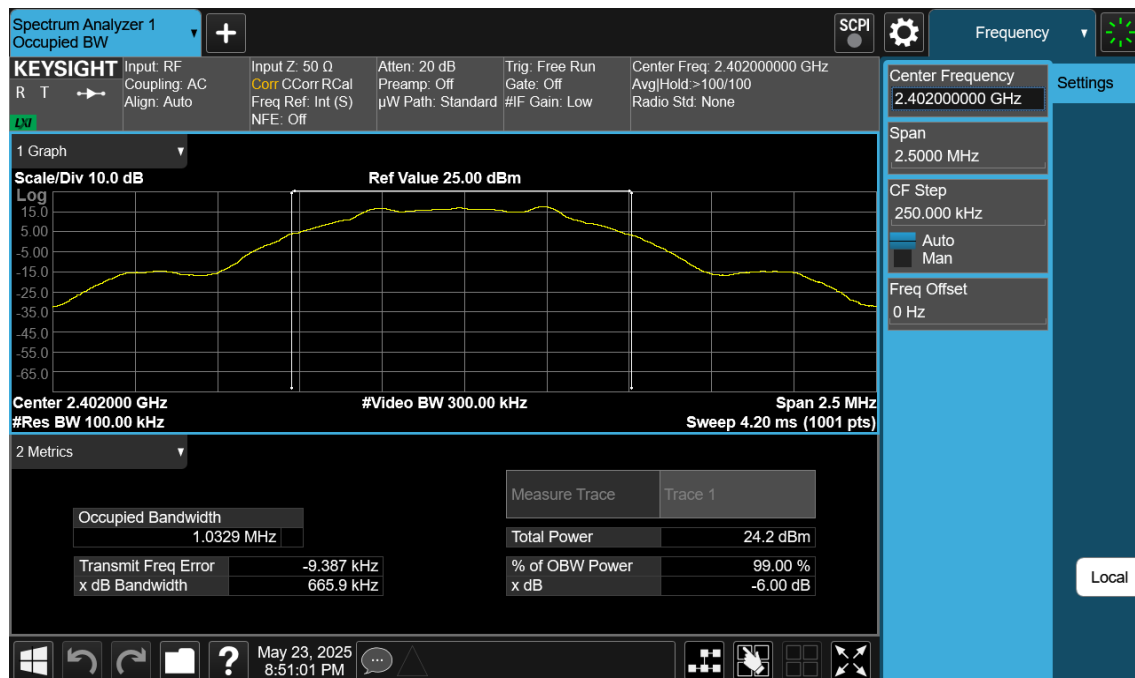


Plot 7-30. 6dB BW & 99% OBW Plot Antenna WF9 (Bluetooth (LE), 500kbps, ePA – Ch. 39)

FCC ID: BCGA3357 IC: 579C-A3357		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Test Report S/N: 1C2504170038-08.BCG	Test Dates: 05/12/2025 - 07/14/2025	EUT Type: Tablet Device	Page 34 of 188



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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 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	12.99	19.907	30.00	-17.01	3.80	16.79	36.02	-19.23
2440	0.125	ePA	19	12.78	18.967	30.00	-17.22	3.80	16.58	36.02	-19.44
2480	0.125	ePA	39	12.90	19.498	30.00	-17.10	3.80	16.70	36.02	-19.32
2402	0.125	iPA	0	9.24	8.395	30.00	-20.76	3.80	13.04	36.02	-22.98
2440	0.125	iPA	19	9.27	8.453	30.00	-20.73	3.80	13.07	36.02	-22.95
2480	0.125	iPA	39	9.28	8.472	30.00	-20.72	3.80	13.08	36.02	-22.94
2402	0.500	ePA	0	12.61	18.239	30.00	-17.39	3.80	16.41	36.02	-19.61
2440	0.500	ePA	19	12.79	19.011	30.00	-17.21	3.80	16.59	36.02	-19.43
2480	0.500	ePA	39	12.97	19.815	30.00	-17.03	3.80	16.77	36.02	-19.25
2402	0.500	iPA	0	9.32	8.551	30.00	-20.68	3.80	13.12	36.02	-22.90
2440	0.500	iPA	19	9.29	8.492	30.00	-20.71	3.80	13.09	36.02	-22.93
2480	0.500	iPA	39	9.23	8.375	30.00	-20.77	3.80	13.03	36.02	-22.99
2402	1.0	ePA	0	15.69	37.068	30.00	-14.31	3.80	19.49	36.02	-16.53
2440	1.0	ePA	19	15.69	37.068	30.00	-14.31	3.80	19.49	36.02	-16.53
2480	1.0	ePA	39	16.15	41.210	30.00	-13.85	3.80	19.95	36.02	-16.07
2402	1.0	iPA	0	9.66	9.247	30.00	-20.34	3.80	13.46	36.02	-22.56
2440	1.0	iPA	19	9.28	8.472	30.00	-20.72	3.80	13.08	36.02	-22.94
2480	1.0	iPA	39	9.28	8.472	30.00	-20.72	3.80	13.08	36.02	-22.94
2404	2.0	ePA	1	15.69	37.068	30.00	-14.31	3.80	19.49	36.02	-16.53
2440	2.0	ePA	19	15.27	33.651	30.00	-14.73	3.80	19.07	36.02	-16.95
2478	2.0	ePA	38	15.60	36.308	30.00	-14.40	3.80	19.40	36.02	-16.62
2404	2.0	iPA	1	9.32	8.551	30.00	-20.68	3.80	13.12	36.02	-22.90
2440	2.0	iPA	19	8.35	6.839	30.00	-21.65	3.80	12.15	36.02	-23.87
2478	2.0	iPA	38	8.76	7.516	30.00	-21.24	3.80	12.56	36.02	-23.46

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	12.40	17.378	30.00	-17.60	2.30	14.70	36.02	-21.32
2440	0.125	ePA	19	12.66	18.450	30.00	-17.34	2.30	14.96	36.02	-21.06
2480	0.125	ePA	39	13.20	20.893	30.00	-16.80	2.30	15.50	36.02	-20.52
2402	0.125	iPA	0	8.74	7.482	30.00	-21.26	2.30	11.04	36.02	-24.98
2440	0.125	iPA	19	8.82	7.621	30.00	-21.18	2.30	11.12	36.02	-24.90
2480	0.125	iPA	39	8.80	7.586	30.00	-21.20	2.30	11.10	36.02	-24.92
2402	0.500	ePA	0	12.96	19.770	30.00	-17.04	2.30	15.26	36.02	-20.76
2440	0.500	ePA	19	12.73	18.750	30.00	-17.27	2.30	15.03	36.02	-20.99
2480	0.500	ePA	39	12.72	18.707	30.00	-17.28	2.30	15.02	36.02	-21.00
2402	0.500	iPA	0	8.77	7.534	30.00	-21.23	2.30	11.07	36.02	-24.95
2440	0.500	iPA	19	8.82	7.621	30.00	-21.18	2.30	11.12	36.02	-24.90
2480	0.500	iPA	39	8.87	7.709	30.00	-21.13	2.30	11.17	36.02	-24.85
2402	1.0	ePA	0	17.38	54.702	30.00	-12.62	2.30	19.68	36.02	-16.34
2440	1.0	ePA	19	17.44	55.463	30.00	-12.56	2.30	19.74	36.02	-16.28
2480	1.0	ePA	39	17.39	54.828	30.00	-12.61	2.30	19.69	36.02	-16.33
2402	1.0	iPA	0	8.76	7.516	30.00	-21.24	2.30	11.06	36.02	-24.96
2440	1.0	iPA	19	8.39	6.902	30.00	-21.61	2.30	10.69	36.02	-25.33
2480	1.0	iPA	39	8.83	7.638	30.00	-21.17	2.30	11.13	36.02	-24.89
2404	2.0	ePA	1	17.92	61.944	30.00	-12.08	2.30	20.22	36.02	-15.80
2440	2.0	ePA	19	18.03	63.533	30.00	-11.97	2.30	20.33	36.02	-15.69
2478	2.0	ePA	38	17.01	50.234	30.00	-12.99	2.30	19.31	36.02	-16.71
2404	2.0	iPA	1	8.30	6.761	30.00	-21.70	2.30	10.60	36.02	-25.42
2440	2.0	iPA	19	8.33	6.808	30.00	-21.67	2.30	10.63	36.02	-25.39
2478	2.0	iPA	38	8.46	7.015	30.00	-21.54	2.30	10.76	36.02	-25.26

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

FCC ID: BCGA3357 IC: 579C-A3357			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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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	12.40	17.378	30.00	-17.60	1.10	13.50	36.02	-22.52
2440	0.125	ePA	19	12.68	18.535	30.00	-17.32	1.10	13.78	36.02	-22.24
2480	0.125	ePA	39	12.64	18.365	30.00	-17.36	1.10	13.74	36.02	-22.28
2402	0.125	iPA	0	8.61	7.261	30.00	-21.39	1.10	9.71	36.02	-26.31
2440	0.125	iPA	19	8.80	7.586	30.00	-21.20	1.10	9.90	36.02	-26.12
2480	0.125	iPA	39	8.81	7.603	30.00	-21.19	1.10	9.91	36.02	-26.11
2402	0.500	ePA	0	12.48	17.701	30.00	-17.52	1.10	13.58	36.02	-22.44
2440	0.500	ePA	19	12.52	17.865	30.00	-17.48	1.10	13.62	36.02	-22.40
2480	0.500	ePA	39	12.67	18.493	30.00	-17.33	1.10	13.77	36.02	-22.25
2402	0.500	iPA	0	9.08	8.091	30.00	-20.92	1.10	10.18	36.02	-25.84
2440	0.500	iPA	19	8.84	7.656	30.00	-21.16	1.10	9.94	36.02	-26.08
2480	0.500	iPA	39	8.98	7.907	30.00	-21.02	1.10	10.08	36.02	-25.94
2402	1.0	ePA	0	17.67	58.479	30.00	-12.33	1.10	18.77	36.02	-17.25
2440	1.0	ePA	19	17.19	52.360	30.00	-12.81	1.10	18.29	36.02	-17.73
2480	1.0	ePA	39	17.21	52.602	30.00	-12.79	1.10	18.31	36.02	-17.71
2402	1.0	iPA	0	8.64	7.311	30.00	-21.36	1.10	9.74	36.02	-26.28
2440	1.0	iPA	19	8.84	7.656	30.00	-21.16	1.10	9.94	36.02	-26.08
2480	1.0	iPA	39	8.83	7.638	30.00	-21.17	1.10	9.93	36.02	-26.09
2404	2.0	ePA	1	17.68	58.614	30.00	-12.32	1.10	18.78	36.02	-17.24
2440	2.0	ePA	19	17.76	59.704	30.00	-12.24	1.10	18.86	36.02	-17.16
2478	2.0	ePA	38	17.92	61.944	30.00	-12.08	1.10	19.02	36.02	-17.00
2404	2.0	iPA	1	9.50	8.913	30.00	-20.50	1.10	10.60	36.02	-25.42
2440	2.0	iPA	19	8.86	7.691	30.00	-21.14	1.10	9.96	36.02	-26.06
2478	2.0	iPA	38	9.01	7.962	30.00	-20.99	1.10	10.11	36.02	-25.91

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	9.62	9.162	12.40	17.378	14.24	26.540	29.91	-15.67	6.09	20.33	36.02	-15.69
2440	0.125	ePA	19	9.83	9.616	12.68	18.535	14.50	28.151	29.91	-15.41	6.09	20.59	36.02	-15.43
2480	0.125	ePA	39	9.44	8.790	12.64	18.365	14.34	27.156	29.91	-15.57	6.09	20.43	36.02	-15.59
2402	0.125	iPA	0	9.17	8.260	8.61	7.261	11.91	15.521	29.91	-18.00	6.09	18.00	36.02	-18.02
2440	0.125	iPA	19	9.17	8.260	8.80	7.586	12.00	15.846	29.91	-17.91	6.09	18.09	36.02	-17.93
2480	0.125	iPA	39	9.17	8.260	8.81	7.603	12.00	15.864	29.91	-17.91	6.09	18.09	36.02	-17.93
2402	0.500	ePA	0	9.62	9.162	12.48	17.701	14.29	26.863	29.91	-15.62	6.09	20.38	36.02	-15.64
2440	0.500	ePA	19	9.37	8.650	12.52	17.865	14.23	26.515	29.91	-15.68	6.09	20.32	36.02	-15.70
2480	0.500	ePA	39	9.52	8.954	12.67	18.493	14.38	27.446	29.91	-15.53	6.09	20.47	36.02	-15.55
2402	0.500	iPA	0	9.24	8.395	9.08	8.091	12.17	16.486	29.91	-17.74	6.09	18.26	36.02	-17.76
2440	0.500	iPA	19	9.20	8.318	8.84	7.656	12.03	15.974	29.91	-17.88	6.09	18.12	36.02	-17.90
2480	0.500	iPA	39	9.60	9.120	8.98	7.907	12.31	17.027	29.91	-17.60	6.09	18.40	36.02	-17.62
2402	1.0	ePA	0	15.64	36.644	17.67	58.479	19.78	95.123	29.91	-10.13	6.09	25.87	36.02	-10.15
2440	1.0	ePA	19	16.16	41.305	17.19	52.360	19.72	93.665	29.91	-10.19	6.09	25.81	36.02	-10.21
2480	1.0	ePA	39	16.07	40.458	17.21	52.602	19.69	93.059	29.91	-10.22	6.09	25.78	36.02	-10.24
2402	1.0	iPA	0	9.19	8.299	8.64	7.311	11.93	15.610	29.91	-17.98	6.09	18.02	36.02	-18.00
2440	1.0	iPA	19	9.19	8.299	8.84	7.656	12.03	15.954	29.91	-17.88	6.09	18.12	36.02	-17.90
2480	1.0	iPA	39	9.64	9.204	8.83	7.638	12.26	16.843	29.91	-17.65	6.09	18.35	36.02	-17.67
2404	2.0	ePA	1	16.24	42.073	17.68	58.614	20.03	100.686	29.91	-9.88	6.09	26.12	36.02	-9.90
2440	2.0	ePA	19	15.65	36.728	17.76	59.704	19.84	96.432	29.91	-10.07	6.09	25.93	36.02	-10.09
2478	2.0	ePA	38	16.10	40.738	17.92	61.944	20.11	102.682	29.91	-9.80	6.09	26.20	36.02	-9.82
2404	2.0	iPA	1	9.27	8.453	9.50	8.913	12.40	17.365	29.91	-17.51	6.09	18.49	36.02	-17.53
2440	2.0	iPA	19	8.76	7.516	8.86	7.691	11.82	15.208	29.91	-18.09	6.09	17.91	36.02	-18.11
2478	2.0	iPA	38	9.19	8.299	9.01	7.962	12.11	16.260	29.91	-17.80	6.09	18.20	36.02	-17.82

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 [dB]	EIRP [dBm]	EIRP Limit [dBm]	EIRP Margin [dB]
				Antenna WF8		Antenna WF9		Summed							
				[dBm]	[mW]	[dBm]	[mW]	[dBm]	[mW]						
2402	0.125	ePA	0	9.62	9.162	9.51	8.933	12.58	18.095	30.00	-17.42	5.56	18.14	36.02	-17.88
2440	0.125	ePA	19	9.83	9.616	9.54	8.995	12.70	18.611	30.00	-17.30	5.56	18.26	36.02	-17.76
2480	0.125	ePA	39	9.44	8.790	9.70	9.333	12.58	18.123	30.00	-17.42	5.56	18.14	36.02	-17.88
2402	0.125	iPA	0	9.17	8.260	8.58	7.211	11.90	15.471	30.00	-18.10	5.56	17.46	36.02	-18.56
2440	0.125	iPA	19	9.17	8.260	8.72	7.447	11.96	15.708	30.00	-18.04	5.56	17.52	36.02	-18.50
2480	0.125	iPA	39	9.17	8.260	8.76	7.516	11.98	15.777	30.00	-18.02	5.56	17.54	36.02	-18.48
2402	0.500	ePA	0	9.62	9.162	9.58	9.078	12.61	18.240	30.00	-17.39	5.56	18.17	36.02	-17.85
2440	0.500	ePA	19	9.37	8.650	9.58	9.078	12.49	17.728	30.00	-17.51	5.56	18.05	36.02	-17.97
2480	0.500	ePA	39	9.52	8.954	9.74	9.419	12.64	18.373	30.00	-17.36	5.56	18.20	36.02	-17.82
2402	0.500	iPA	0	9.24	8.395	9.02	7.980	12.14	16.375	30.00	-17.86	5.56	17.70	36.02	-18.32
2440	0.500	iPA	19	9.20	8.318	8.78	7.551	12.01	15.869	30.00	-17.99	5.56	17.57	36.02	-18.45
2480	0.500	iPA	39	9.60	9.120	8.94	7.834	12.29	16.954	30.00	-17.71	5.56	17.85	36.02	-18.17
2402	1.0	ePA	0	15.64	36.644	17.04	50.582	19.41	87.226	30.00	-10.59	5.56	24.97	36.02	-11.05
2440	1.0	ePA	19	16.16	41.305	17.11	51.404	19.67	92.709	30.00	-10.33	5.56	25.23	36.02	-10.79
2480	1.0	ePA	39	16.07	40.458	17.66	58.345	19.95	98.802	30.00	-10.05	5.56	25.51	36.02	-10.51
2402	1.0	iPA	0	9.19	8.299	9.05	8.035	12.13	16.334	30.00	-17.87	5.56	17.69	36.02	-18.33
2440	1.0	iPA	19	9.19	8.299	8.79	7.568	12.00	15.967	30.00	-18.00	5.56	17.56	36.02	-18.46
2480	1.0	iPA	39	9.64	9.204	8.79	7.568	12.25	16.773	30.00	-17.75	5.56	17.81	36.02	-18.21
2404	2.0	ePA	1	16.24	42.073	17.65	58.210	20.01	100.283	30.00	-9.99	5.56	25.57	36.02	-10.45
2440	2.0	ePA	19	15.65	36.728	17.72	59.156	19.82	95.884	30.00	-10.18	5.56	25.38	36.02	-10.54
2478	2.0	ePA	38	16.10	40.738	17.23	52.845	19.71	93.583	30.00	-10.29	5.56	25.27	36.02	-10.75
2404	2.0	iPA	1	9.27	8.453	9.46	8.631	12.38	17.284	30.00	-17.62	5.56	17.94	36.02	-18.08
2440	2.0	iPA	19	8.76	7.516	8.30	6.761	11.55	14.277	30.00	-18.45	5.56	17.11	36.02	-18.91
2478	2.0	iPA	38	9.19	8.299	8.49	7.063	11.86	15.362	30.00	-18.14	5.56	17.42	36.02	-18.60

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

FCC ID: BCGA3357 IC: 579C-A3357		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2504170038-08.BCG	Test Dates: 05/12/2025 - 07/14/2025	EUT Type: Tablet Device	Page 39 of 188	

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	12.51	17.824	30.00	-17.49	3.80	16.31	36.02	-19.71	12.80
2440	0.125	ePA	19	12.78	18.967	30.00	-17.22	3.80	16.58	36.02	-19.44	12.80
2480	0.125	ePA	39	12.43	17.498	30.00	-17.57	3.80	16.23	36.02	-19.79	12.80
2402	0.125	iPA	0	8.98	7.907	30.00	-21.02	3.80	12.78	36.02	-23.24	9.50
2440	0.125	iPA	19	9.29	8.492	30.00	-20.71	3.80	13.09	36.02	-22.93	9.50
2480	0.125	iPA	39	9.28	8.472	30.00	-20.72	3.80	13.08	36.02	-22.94	9.50
2402	0.500	ePA	0	12.41	17.418	30.00	-17.59	3.80	16.21	36.02	-19.81	12.80
2440	0.500	ePA	19	12.58	18.113	30.00	-17.42	3.80	16.38	36.02	-19.64	12.80
2480	0.500	ePA	39	12.77	18.923	30.00	-17.23	3.80	16.57	36.02	-19.45	12.80
2402	0.500	iPA	0	9.25	8.414	30.00	-20.75	3.80	13.05	36.02	-22.97	9.50
2440	0.500	iPA	19	9.14	8.204	30.00	-20.86	3.80	12.94	36.02	-23.08	9.50
2480	0.500	iPA	39	9.09	8.110	30.00	-20.91	3.80	12.89	36.02	-23.13	9.50
2402	1.0	ePA	0	15.47	35.237	30.00	-14.53	3.80	19.27	36.02	-16.75	16.00
2440	1.0	ePA	19	15.46	35.156	30.00	-14.54	3.80	19.26	36.02	-16.76	16.00
2480	1.0	ePA	39	15.94	39.264	30.00	-14.06	3.80	19.74	36.02	-16.28	16.00
2402	1.0	iPA	0	9.48	8.872	30.00	-20.52	3.80	13.28	36.02	-22.74	9.50
2440	1.0	iPA	19	9.48	8.872	30.00	-20.52	3.80	13.28	36.02	-22.74	9.50
2480	1.0	iPA	39	9.10	8.128	30.00	-20.90	3.80	12.90	36.02	-23.12	9.50
2404	2.0	ePA	1	15.03	31.842	30.00	-14.97	3.80	18.83	36.02	-17.19	16.00
2440	2.0	ePA	19	15.31	33.963	30.00	-14.69	3.80	19.11	36.02	-16.91	16.00
2478	2.0	ePA	38	15.91	38.994	30.00	-14.09	3.80	19.71	36.02	-16.31	16.00
2404	2.0	iPA	1	9.22	8.356	30.00	-20.78	3.80	13.02	36.02	-23.00	9.50
2440	2.0	iPA	19	8.52	7.112	30.00	-21.48	3.80	12.32	36.02	-23.70	9.50
2478	2.0	iPA	38	9.09	8.110	30.00	-20.91	3.80	12.89	36.02	-23.13	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	12.39	17.338	30.00	-17.61	2.30	14.69	36.02	-21.33	12.80
2440	0.125	ePA	19	12.56	18.030	30.00	-17.44	2.30	14.86	36.02	-21.16	12.80
2480	0.125	ePA	39	12.63	18.323	30.00	-17.37	2.30	14.93	36.02	-21.09	12.80
2402	0.125	iPA	0	8.29	6.745	30.00	-21.71	2.30	10.59	36.02	-25.43	9.00
2440	0.125	iPA	19	8.80	7.586	30.00	-21.20	2.30	11.10	36.02	-24.92	9.00
2480	0.125	iPA	39	8.81	7.603	30.00	-21.19	2.30	11.11	36.02	-24.91	9.00
2402	0.500	ePA	0	12.79	19.011	30.00	-17.21	2.30	15.09	36.02	-20.93	12.80
2440	0.500	ePA	19	12.45	17.579	30.00	-17.55	2.30	14.75	36.02	-21.27	12.80
2480	0.500	ePA	39	12.44	17.539	30.00	-17.56	2.30	14.74	36.02	-21.28	12.80
2402	0.500	iPA	0	8.61	7.261	30.00	-21.39	2.30	10.91	36.02	-25.11	9.00
2440	0.500	iPA	19	8.66	7.345	30.00	-21.34	2.30	10.96	36.02	-25.06	9.00
2480	0.500	iPA	39	8.70	7.413	30.00	-21.30	2.30	11.00	36.02	-25.02	9.00
2402	1.0	ePA	0	17.16	52.000	30.00	-12.84	2.30	19.46	36.02	-16.56	17.50
2440	1.0	ePA	19	17.20	52.481	30.00	-12.80	2.30	19.50	36.02	-16.52	17.50
2480	1.0	ePA	39	17.15	51.880	30.00	-12.85	2.30	19.45	36.02	-16.57	17.50
2402	1.0	iPA	0	8.57	7.194	30.00	-21.43	2.30	10.87	36.02	-25.15	9.00
2440	1.0	iPA	19	8.18	6.577	30.00	-21.82	2.30	10.48	36.02	-25.54	9.00
2480	1.0	iPA	39	8.65	7.328	30.00	-21.35	2.30	10.95	36.02	-25.07	9.00
2404	2.0	ePA	1	17.38	54.702	30.00	-12.62	2.30	19.68	36.02	-16.34	17.50
2440	2.0	ePA	19	17.04	50.582	30.00	-12.96	2.30	19.34	36.02	-16.68	17.50
2478	2.0	ePA	38	17.37	54.576	30.00	-12.63	2.30	19.67	36.02	-16.35	17.50
2404	2.0	iPA	1	8.18	6.577	30.00	-21.82	2.30	10.48	36.02	-25.54	9.00
2440	2.0	iPA	19	8.61	7.261	30.00	-21.39	2.30	10.91	36.02	-25.11	9.00
2478	2.0	iPA	38	8.89	7.745	30.00	-21.11	2.30	11.19	36.02	-24.83	9.00

Table 7-11. Average Conducted Output Power Measurements Antenna WF7 (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	11.92	15.560	30.00	-18.08	1.10	13.02	36.02	-23.00	12.80
2440	0.125	ePA	19	12.09	16.181	30.00	-17.91	1.10	13.19	36.02	-22.83	12.80
2480	0.125	ePA	39	12.34	17.140	30.00	-17.66	1.10	13.44	36.02	-22.58	12.80
2402	0.125	iPA	0	8.60	7.244	30.00	-21.40	1.10	9.70	36.02	-26.32	9.00
2440	0.125	iPA	19	8.78	7.551	30.00	-21.22	1.10	9.88	36.02	-26.14	9.00
2480	0.125	iPA	39	8.80	7.586	30.00	-21.20	1.10	9.90	36.02	-26.12	9.00
2402	0.500	ePA	0	12.36	17.219	30.00	-17.64	1.10	13.46	36.02	-22.56	12.80
2440	0.500	ePA	19	12.36	17.219	30.00	-17.64	1.10	13.46	36.02	-22.56	12.80
2480	0.500	ePA	39	12.41	17.418	30.00	-17.59	1.10	13.51	36.02	-22.51	12.80
2402	0.500	iPA	0	8.93	7.816	30.00	-21.07	1.10	10.03	36.02	-25.99	9.00
2440	0.500	iPA	19	8.67	7.362	30.00	-21.33	1.10	9.77	36.02	-26.25	9.00
2480	0.500	iPA	39	8.83	7.638	30.00	-21.17	1.10	9.93	36.02	-26.09	9.00
2402	1.0	ePA	0	17.42	55.208	30.00	-12.58	1.10	18.52	36.02	-17.50	17.50
2440	1.0	ePA	19	16.95	49.545	30.00	-13.05	1.10	18.05	36.02	-17.97	17.50
2480	1.0	ePA	39	16.97	49.774	30.00	-13.03	1.10	18.07	36.02	-17.95	17.50
2402	1.0	iPA	0	8.44	6.982	30.00	-21.56	1.10	9.54	36.02	-26.48	9.00
2440	1.0	iPA	19	8.81	7.603	30.00	-21.19	1.10	9.91	36.02	-26.11	9.00
2480	1.0	iPA	39	8.63	7.295	30.00	-21.37	1.10	9.73	36.02	-26.29	9.00
2404	2.0	ePA	1	16.71	46.881	30.00	-13.29	1.10	17.81	36.02	-18.21	17.50
2440	2.0	ePA	19	17.23	52.845	30.00	-12.77	1.10	18.33	36.02	-17.69	17.50
2478	2.0	ePA	38	16.93	49.317	30.00	-13.07	1.10	18.03	36.02	-17.99	17.50
2404	2.0	iPA	1	8.99	7.925	30.00	-21.01	1.10	10.09	36.02	-25.93	9.00
2440	2.0	iPA	19	8.51	7.096	30.00	-21.49	1.10	9.61	36.02	-26.41	9.00
2478	2.0	iPA	38	8.63	7.295	30.00	-21.37	1.10	9.73	36.02	-26.29	9.00

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

FCC ID: BCGA3357 IC: 579C-A3357			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170038-08.BCG	Test Dates: 05/12/2025 - 07/14/2025	EUT Type: Tablet Device	Page 40 of 188	

Frequency [MHz]	Data Rate [Mbps]	Power Scheme	Channel No.	Average Conducted Power						Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dB]	EIRP [dBm]	EIRP Limit [dBm]	EIRP Margin [dB]
				Antenna WF8		Antenna WF7		Summed							
				[dBm]	[mW]	[dBm]	[mW]	[dBm]	[mW]						
2402	0.125	ePA	0	9.13	8.185	13.76	23.768	15.05	31.953	29.91	-14.86	6.09	21.14	36.02	-14.88
2440	0.125	ePA	19	9.36	8.630	13.95	24.831	15.25	33.461	29.91	-14.66	6.09	21.34	36.02	-14.68
2480	0.125	ePA	39	9.40	8.710	14.12	25.823	15.38	34.532	29.91	-14.53	6.09	21.47	36.02	-14.55
2402	0.125	iPA	0	9.16	8.241	11.90	15.488	13.75	23.730	29.91	-16.16	6.09	19.84	36.02	-16.18
2440	0.125	iPA	19	9.15	8.222	11.98	15.776	13.80	23.999	29.91	-16.11	6.09	19.89	36.02	-16.13
2480	0.125	iPA	39	9.15	8.222	11.99	15.812	13.81	24.035	29.91	-16.10	6.09	19.90	36.02	-16.12
2402	0.500	ePA	0	9.42	8.750	14.14	25.942	15.40	34.692	29.91	-14.51	6.09	21.49	36.02	-14.53
2440	0.500	ePA	19	9.18	8.279	14.07	25.527	15.29	33.806	29.91	-14.62	6.09	21.38	36.02	-14.64
2480	0.500	ePA	39	9.32	8.551	14.14	25.942	15.38	34.492	29.91	-14.53	6.09	21.47	36.02	-14.55
2402	0.500	iPA	0	9.11	8.147	12.03	15.959	13.82	24.106	29.91	-16.09	6.09	19.91	36.02	-16.11
2440	0.500	iPA	19	9.04	8.017	11.87	15.382	13.69	23.398	29.91	-16.22	6.09	19.78	36.02	-16.24
2480	0.500	iPA	39	9.48	8.872	12.18	16.520	14.05	25.391	29.91	-15.86	6.09	20.14	36.02	-15.88
2402	1.0	ePA	0	15.53	35.727	19.59	90.991	21.03	126.719	29.91	-8.88	6.09	27.12	36.02	-8.90
2440	1.0	ePA	19	15.92	39.084	19.48	88.716	21.07	127.800	29.91	-8.84	6.09	27.16	36.02	-8.86
2480	1.0	ePA	39	15.84	38.371	19.45	88.105	21.02	126.476	29.91	-8.89	6.09	27.11	36.02	-8.91
2402	1.0	iPA	0	9.21	8.337	11.85	15.311	13.74	23.648	29.91	-16.17	6.09	19.83	36.02	-16.19
2440	1.0	iPA	19	8.99	7.925	11.91	15.524	13.70	23.449	29.91	-16.21	6.09	19.79	36.02	-16.23
2480	1.0	iPA	39	9.46	8.831	12.08	16.144	13.97	24.974	29.91	-15.94	6.09	20.06	36.02	-15.96
2404	2.0	ePA	1	15.85	38.459	19.31	85.310	20.93	123.769	29.91	-8.98	6.09	27.02	36.02	-9.00
2440	2.0	ePA	19	15.71	37.239	19.55	90.157	21.05	127.396	29.91	-8.86	6.09	27.14	36.02	-8.88
2478	2.0	ePA	38	15.84	38.371	19.43	87.700	21.01	126.071	29.91	-8.90	6.09	27.10	36.02	-8.92
2404	2.0	iPA	1	8.96	7.870	11.99	15.812	13.74	23.683	29.91	-16.17	6.09	19.83	36.02	-16.19
2440	2.0	iPA	19	9.13	8.185	11.84	15.276	13.70	23.460	29.91	-16.21	6.09	19.79	36.02	-16.23
2478	2.0	iPA	38	9.13	8.185	11.90	15.488	13.74	23.673	29.91	-16.17	6.09	19.83	36.02	-16.19

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	9.13	8.185	12.27	16.866	13.99	25.050	30.00	-16.01	5.56	19.55	36.02	-16.47
2440	0.125	ePA	19	9.36	8.630	12.37	17.258	14.13	25.888	30.00	-15.87	5.56	19.70	36.02	-16.32
2480	0.125	ePA	39	9.40	8.710	12.43	17.498	14.18	26.208	30.00	-15.82	5.56	19.75	36.02	-16.27
2402	0.125	iPA	0	9.16	8.241	11.87	15.382	13.73	23.623	30.00	-16.27	5.56	19.30	36.02	-16.72
2440	0.125	iPA	19	9.15	8.222	11.94	15.631	13.78	23.854	30.00	-16.22	5.56	19.34	36.02	-16.68
2480	0.125	iPA	39	9.15	8.222	11.75	14.962	13.65	23.185	30.00	-16.35	5.56	19.22	36.02	-16.80
2402	0.500	ePA	0	9.42	8.750	12.42	17.458	14.18	26.208	30.00	-15.82	5.56	19.75	36.02	-16.27
2440	0.500	ePA	19	9.18	8.279	12.30	16.982	14.02	25.262	30.00	-15.98	5.56	19.59	36.02	-16.43
2480	0.500	ePA	39	9.32	8.551	12.39	17.338	14.13	25.889	30.00	-15.87	5.56	19.70	36.02	-16.32
2402	0.500	iPA	0	9.11	8.147	12.00	15.849	13.80	23.996	30.00	-16.20	5.56	19.37	36.02	-16.65
2440	0.500	iPA	19	9.04	8.017	11.84	15.276	13.67	23.292	30.00	-16.33	5.56	19.24	36.02	-16.78
2480	0.500	iPA	39	9.48	8.872	12.15	16.406	14.03	25.277	30.00	-15.97	5.56	19.59	36.02	-16.43
2402	1.0	ePA	0	15.53	35.727	19.42	87.498	20.91	123.226	30.00	-9.09	5.56	26.47	36.02	-9.55
2440	1.0	ePA	19	15.92	39.084	19.43	87.700	21.03	126.784	30.00	-8.97	5.56	26.60	36.02	-9.43
2480	1.0	ePA	39	15.84	38.371	19.71	93.541	21.20	131.911	30.00	-8.80	5.56	26.77	36.02	-9.25
2402	1.0	iPA	0	9.21	8.337	12.05	16.032	13.87	24.369	30.00	-16.13	5.56	19.43	36.02	-16.59
2440	1.0	iPA	19	8.99	7.925	11.91	15.524	13.70	23.449	30.00	-16.30	5.56	19.27	36.02	-16.75
2480	1.0	iPA	39	9.46	8.831	12.06	16.069	13.96	24.900	30.00	-16.04	5.56	19.53	36.02	-16.49
2404	2.0	ePA	1	15.85	38.459	19.56	90.365	21.10	128.624	30.00	-8.90	5.56	26.66	36.02	-9.36
2440	2.0	ePA	19	15.71	37.239	19.37	86.497	20.92	123.736	30.00	-9.08	5.56	26.49	36.02	-9.53
2478	2.0	ePA	38	15.84	38.371	19.69	93.111	21.19	131.482	30.00	-8.81	5.56	26.75	36.02	-9.27
2404	2.0	iPA	1	8.96	7.870	11.83	15.241	13.64	23.111	30.00	-16.36	5.56	19.20	36.02	-16.82
2440	2.0	iPA	19	9.13	8.185	11.75	14.962	13.64	23.147	30.00	-16.36	5.56	19.21	36.02	-16.81
2478	2.0	iPA	38	9.13	8.185	11.94	15.631	13.77	23.816	30.00	-16.23	5.56	19.33	36.02	-16.69

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

FCC ID: BCGA3357 IC: 579C-A3357	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2504170038-08.BCG	Test Dates: 05/12/2025 - 07/14/2025	EUT Type: Tablet Device	Page 41 of 188

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 9.13 dBm for Antenna WF8 and 13.76 dBm for Antenna WF7.

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

$$(9.13 \text{ dBm} + 13.76 \text{ dBm}) = (8.185 \text{ mW} + 23.768 \text{ mW}) = 31.953 \text{ mW} = 15.05 \text{ dBm}$$

Sample e.i.r.p. Calculation:

At 2402MHz, the average conducted output power was calculated to be 12.51 dBm with directional gain of 3.8 dBi.

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

$$12.51 \text{ dBm} + 3.8 \text{ dBi} = 16.31 \text{ dBm}$$

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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.

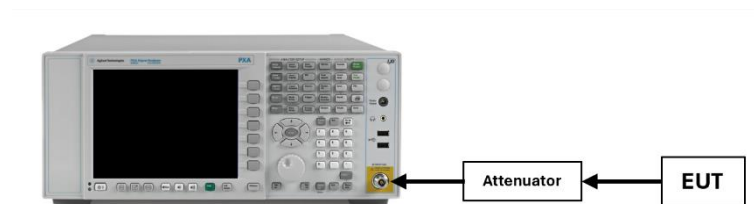


Figure 7-3. Test Instrument & Measurement Setup

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	6.33	8.0	-1.67
2440	0.125	ePA	19	6.32	8.0	-1.68
2480	0.125	ePA	39	6.41	8.0	-1.59
2402	0.125	iPA	0	1.73	8.0	-6.27
2440	0.125	iPA	19	2.13	8.0	-5.88
2480	0.125	iPA	39	1.90	8.0	-6.10
2402	0.5	ePA	0	5.74	8.0	-2.26
2440	0.5	ePA	19	6.19	8.0	-1.81
2480	0.5	ePA	39	6.26	8.0	-1.74
2402	0.5	iPA	0	1.62	8.0	-6.38
2440	0.5	iPA	19	2.03	8.0	-5.97
2480	0.5	iPA	39	1.80	8.0	-6.20
2402	1.0	ePA	0	-1.68	8.0	-9.68
2440	1.0	ePA	19	-1.67	8.0	-9.67
2480	1.0	ePA	39	-1.04	8.0	-9.04
2402	1.0	iPA	0	-8.30	8.0	-16.30
2440	1.0	iPA	19	-8.26	8.0	-16.26
2480	1.0	iPA	39	-8.51	8.0	-16.51
2404	2.0	ePA	1	-4.34	8.0	-12.34
2440	2.0	ePA	19	-4.77	8.0	-12.77
2478	2.0	ePA	38	-4.24	8.0	-12.24
2404	2.0	iPA	1	-11.10	8.0	-19.10
2440	2.0	iPA	19	-11.77	8.0	-19.77
2478	2.0	iPA	38	-11.44	8.0	-19.44

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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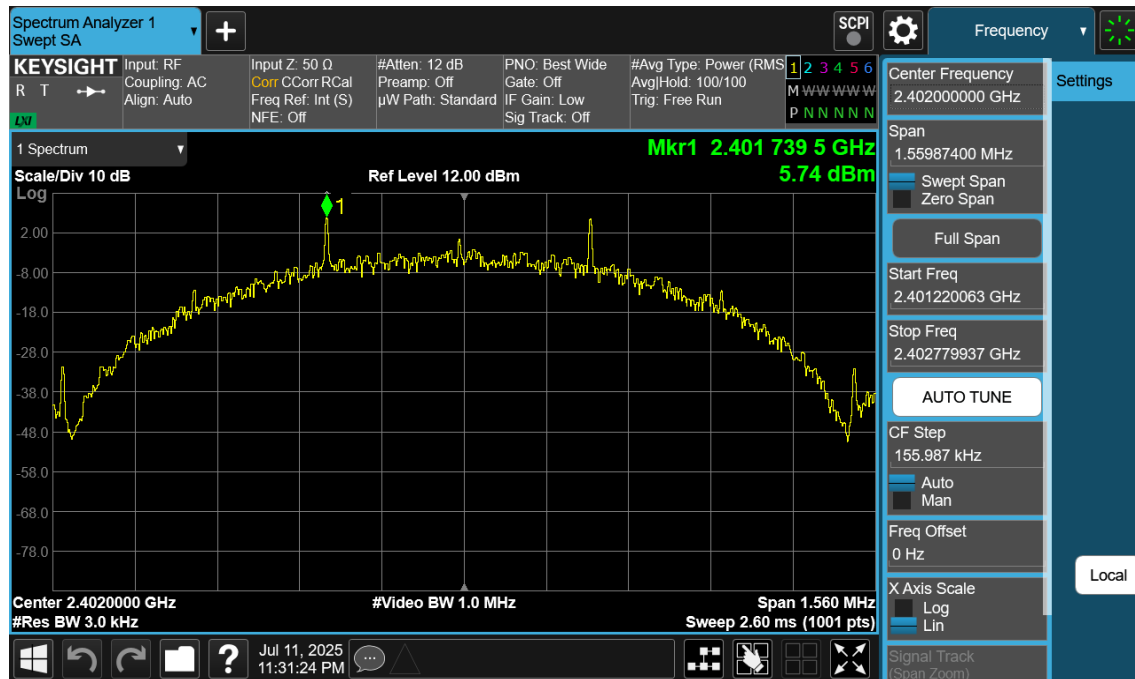


Plot 7-41. Power Spectral Density Plot Antenna WF8 (Bluetooth (LE), 125kbps, iPA – Ch. 19)

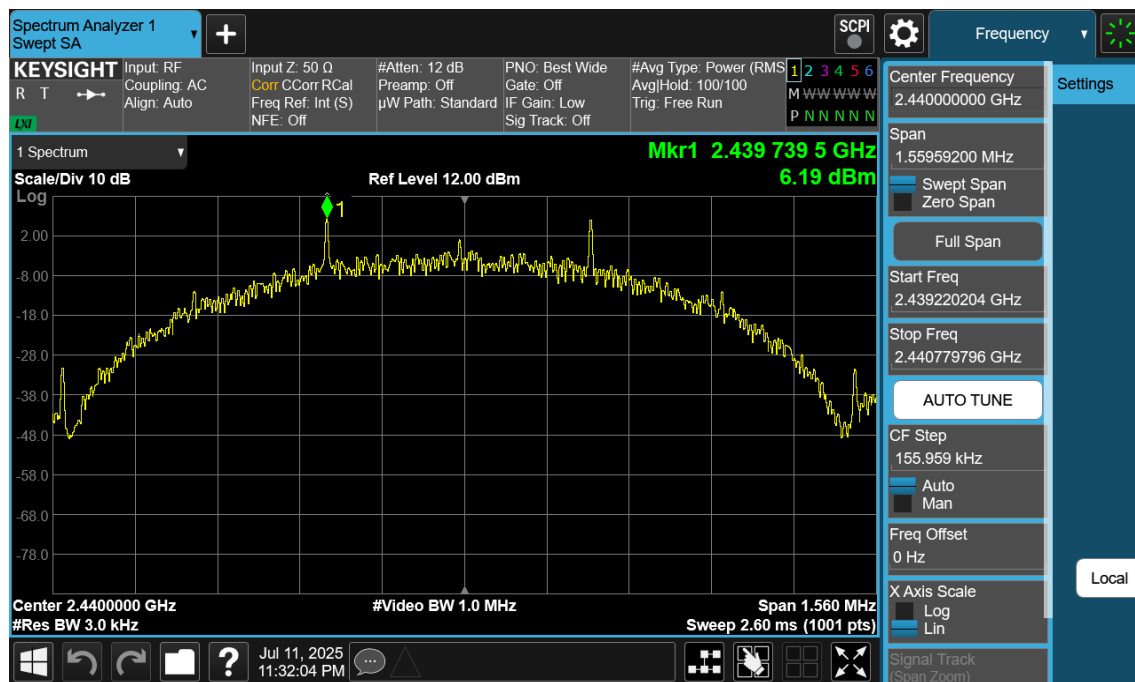


Plot 7-42. Power Spectral Density Plot Antenna WF8 (Bluetooth (LE), 125kbps, iPA – Ch. 39)

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

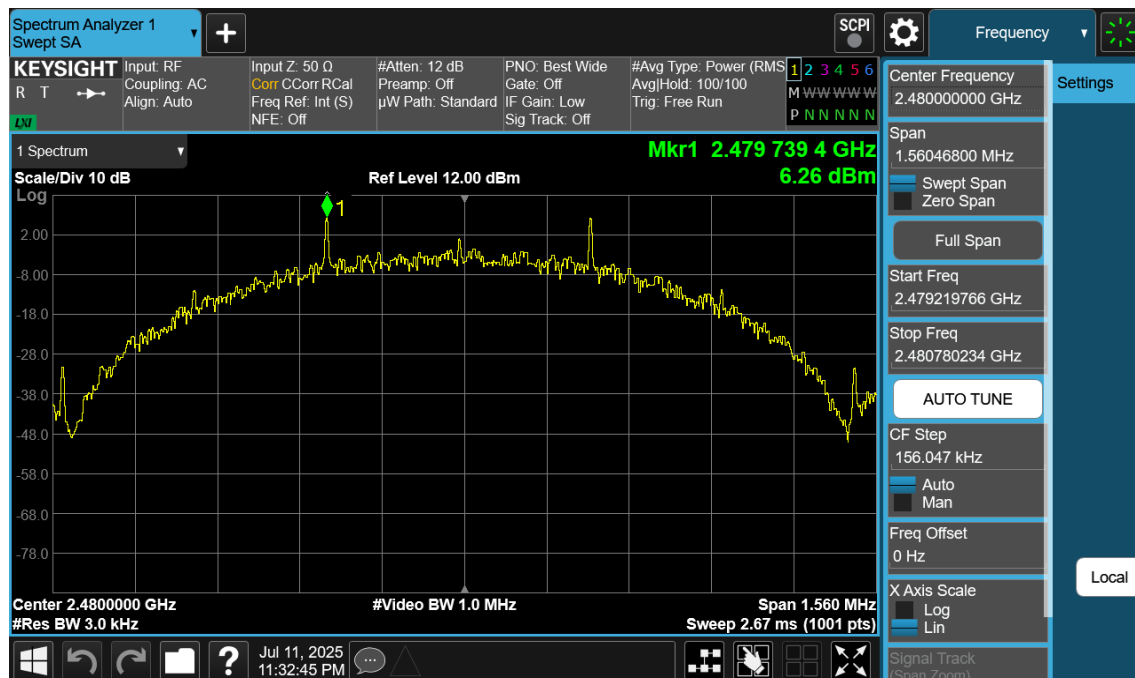


Plot 7-44. Power Spectral Density Plot Antenna WF8 (Bluetooth (LE), 500kbps, ePA – Ch. 19)

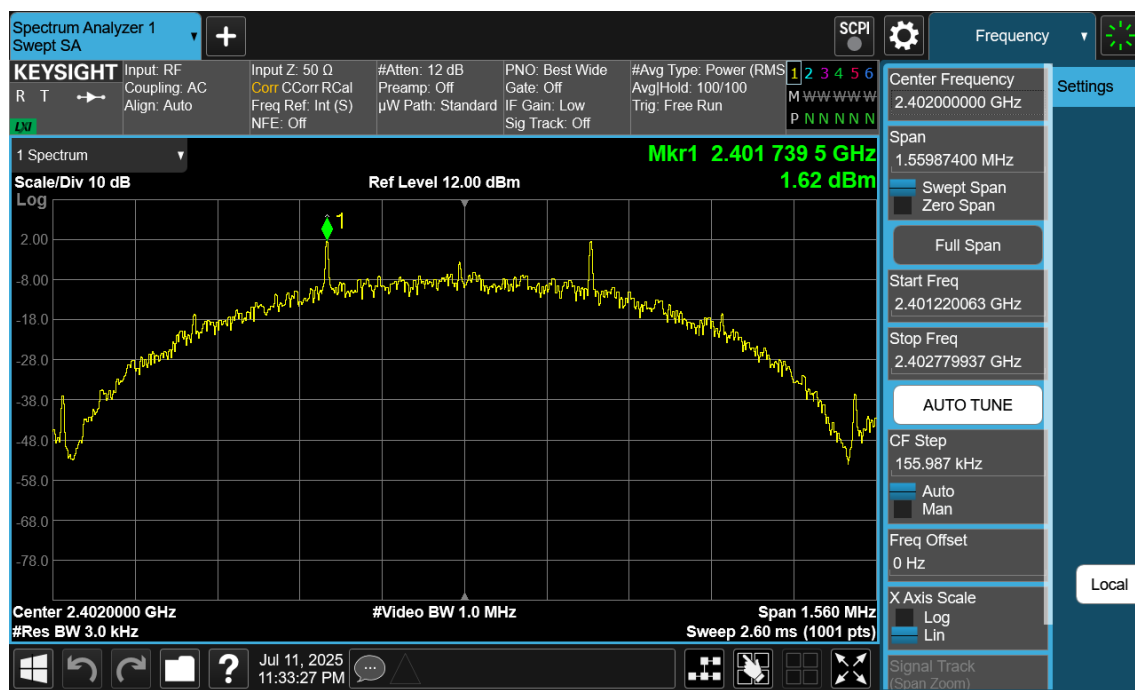
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Plot 7-45. Power Spectral Density Plot Antenna WF8 (Bluetooth (LE), 500kbps, ePA – Ch. 39)

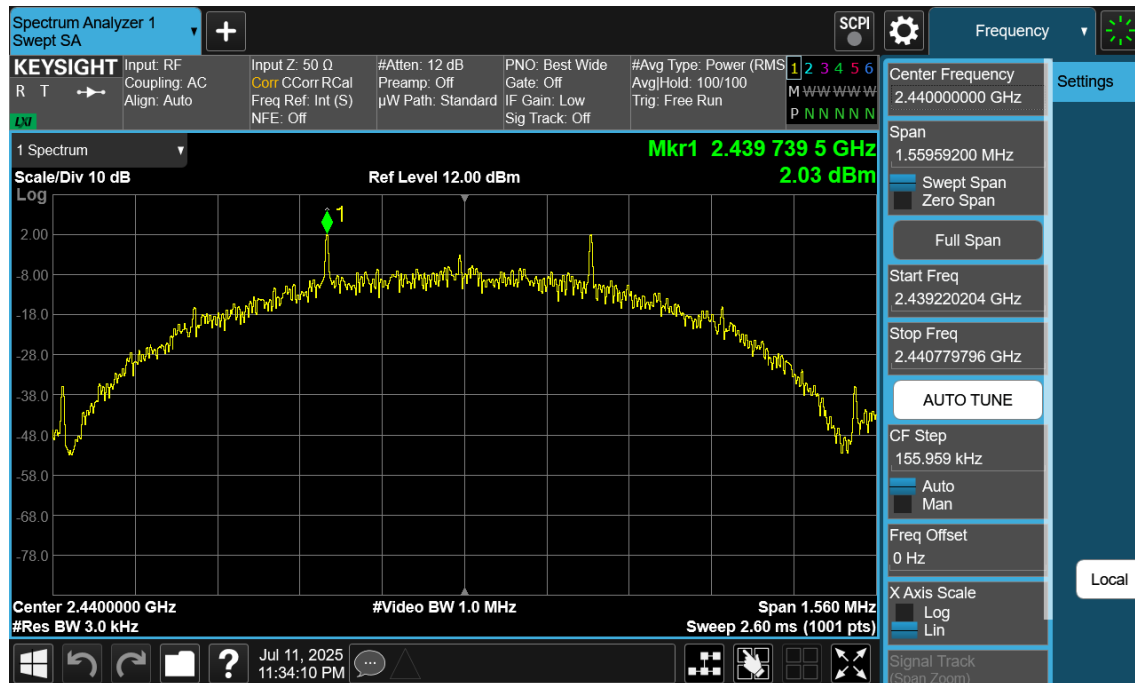


Plot 7-46. Power Spectral Density Plot Antenna WF8 (Bluetooth (LE), 500kbps, iPA – Ch. 0)

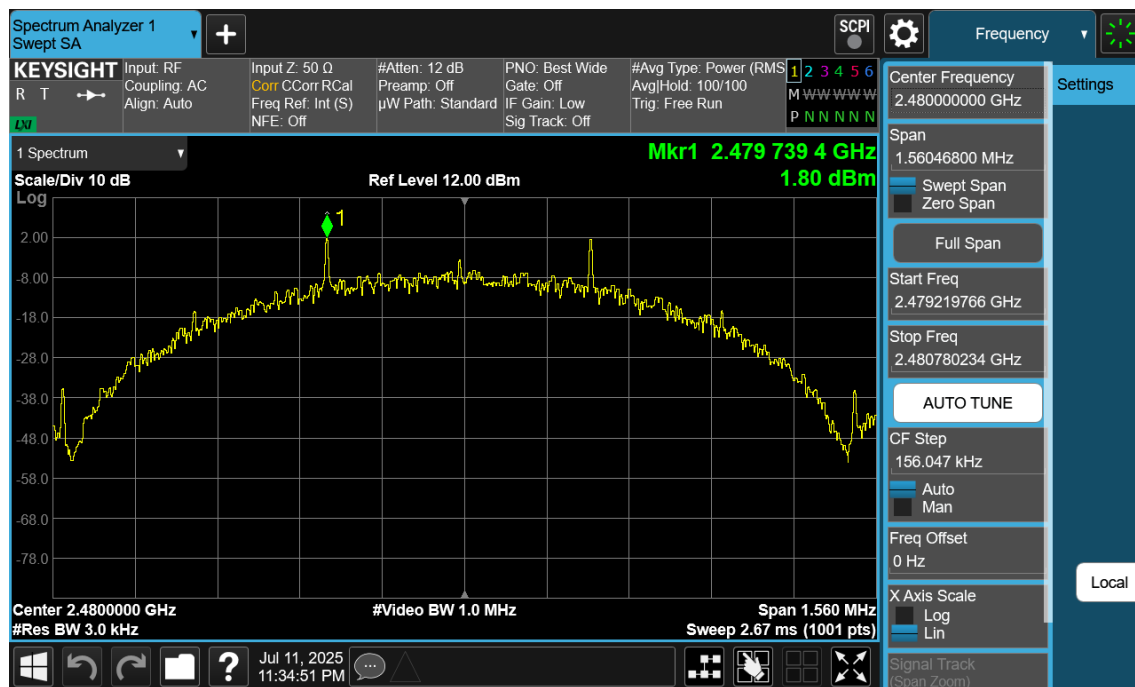
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Plot 7-47. Power Spectral Density Plot Antenna WF8 (Bluetooth (LE), 500kbps, iPA – Ch. 19)

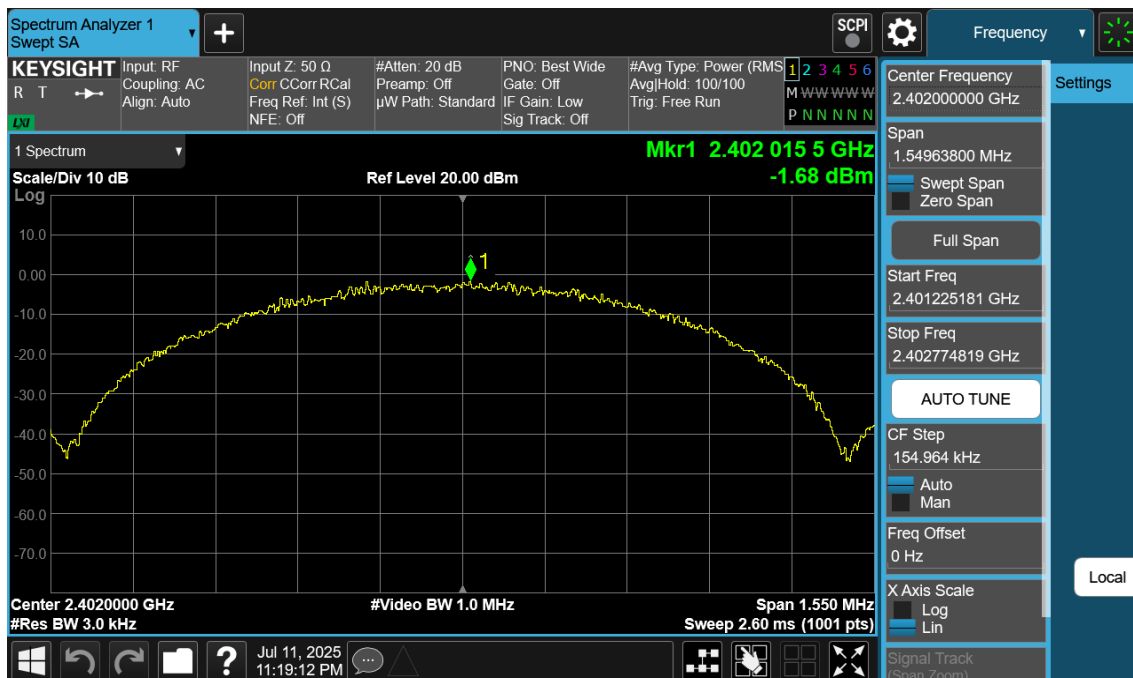


Plot 7-48. Power Spectral Density Plot Antenna WF8 (Bluetooth (LE), 500kbps, iPA – Ch. 39)

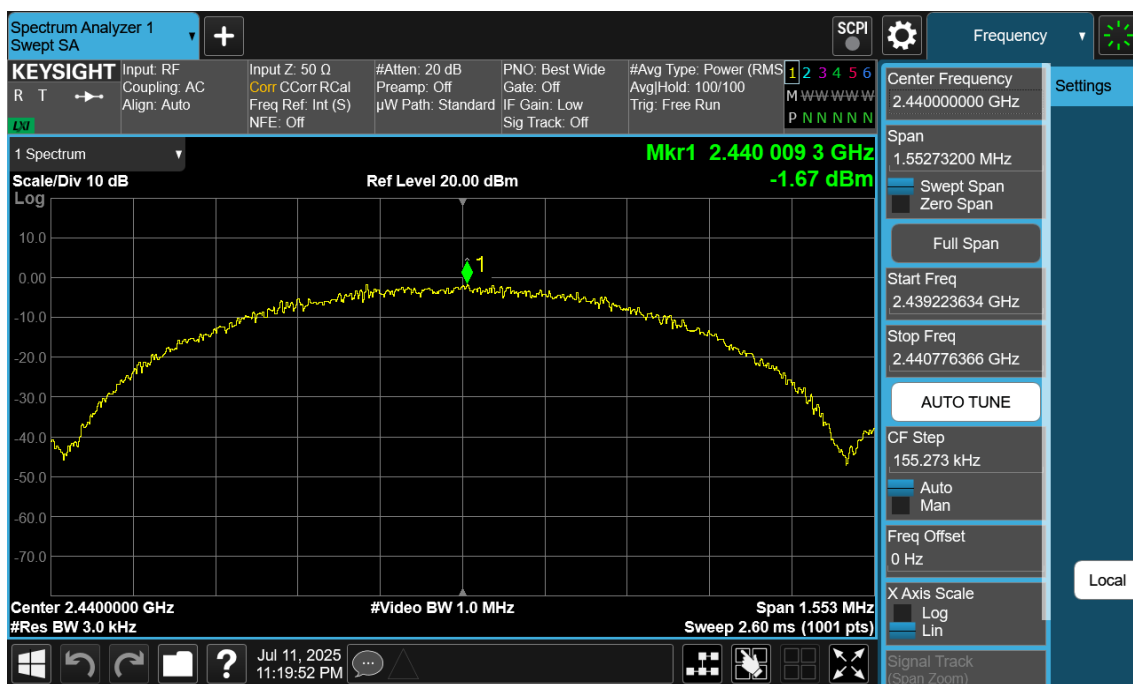
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Plot 7-49. Power Spectral Density Plot Antenna WF8 (Bluetooth (LE), 1Mbps, ePA – Ch. 0)

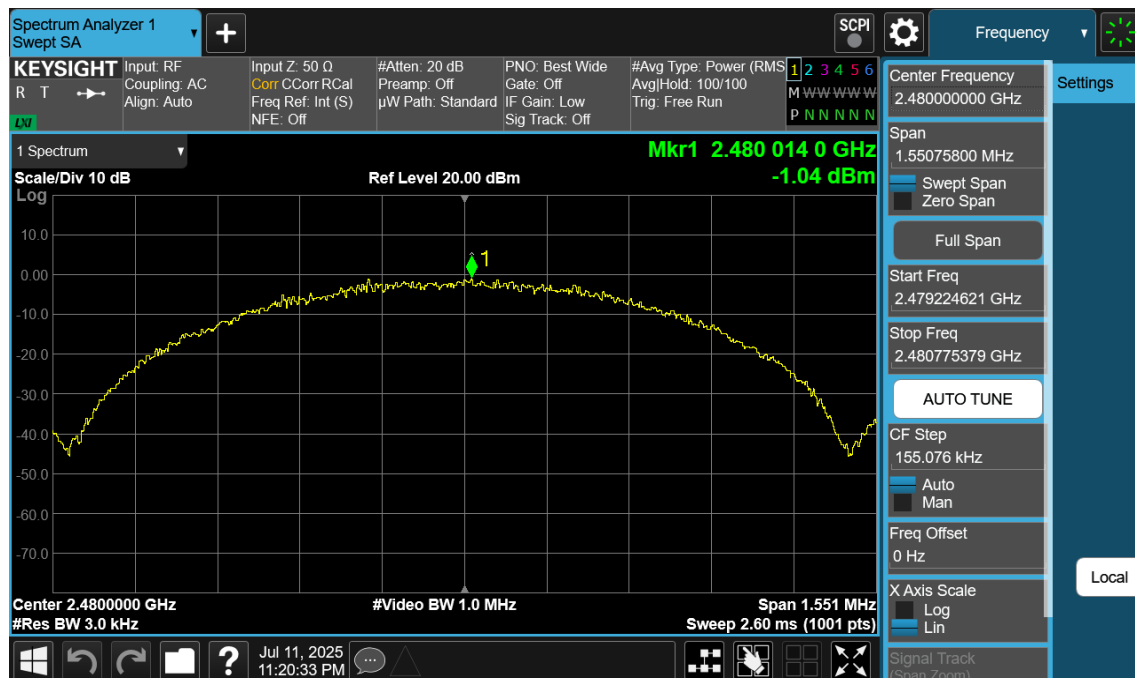


Plot 7-50. Power Spectral Density Plot Antenna WF8 (Bluetooth (LE), 1Mbps, ePA – Ch. 19)

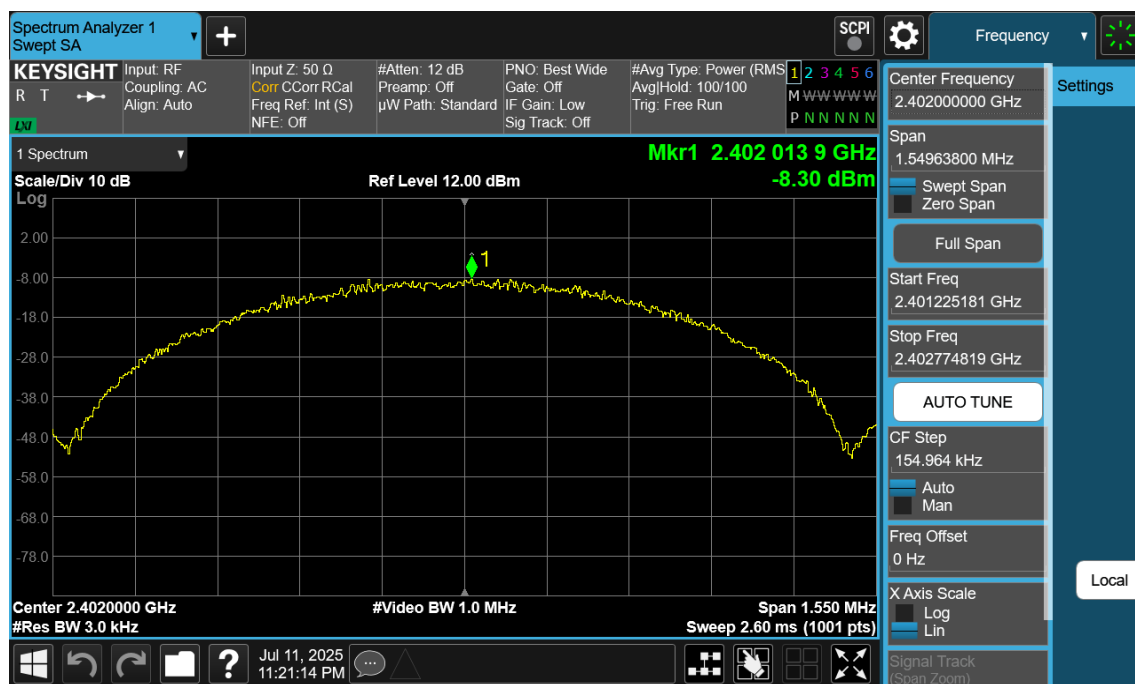
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Plot 7-51. Power Spectral Density Plot Antenna WF8 (Bluetooth (LE), 1Mbps, ePA – Ch. 39)

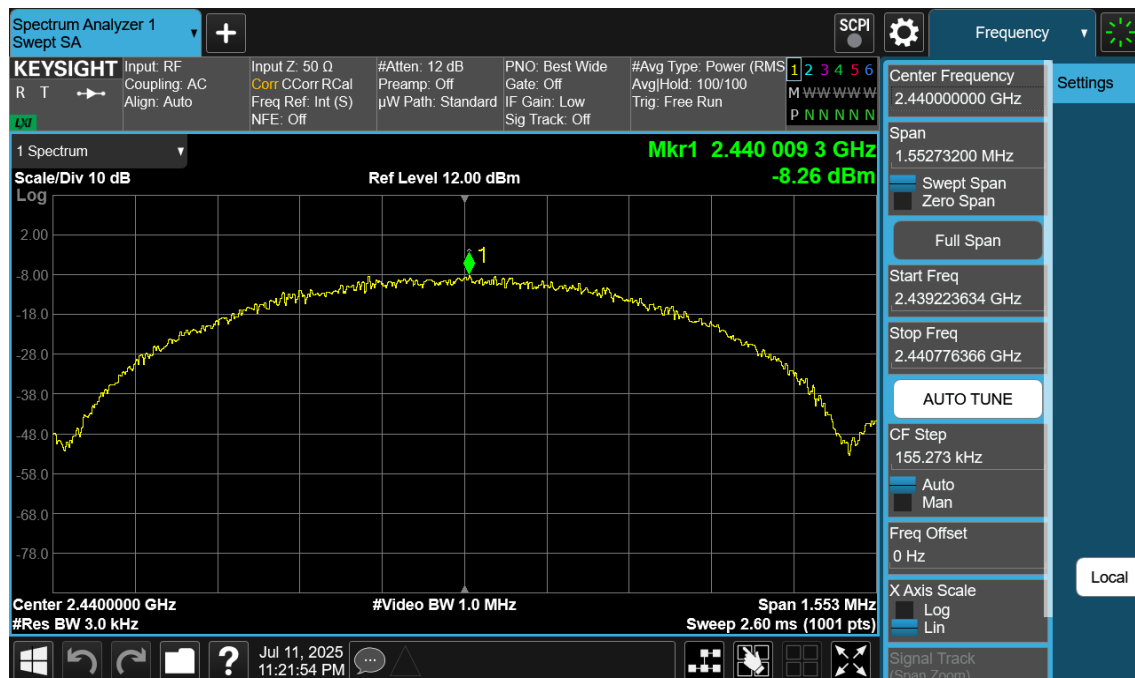


Plot 7-52. Power Spectral Density Plot Antenna WF8 (Bluetooth (LE), 1Mbps, iPA – Ch. 0)

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Plot 7-53. Power Spectral Density Plot Antenna WF8 (Bluetooth (LE), 1Mbps, iPA – Ch. 19)

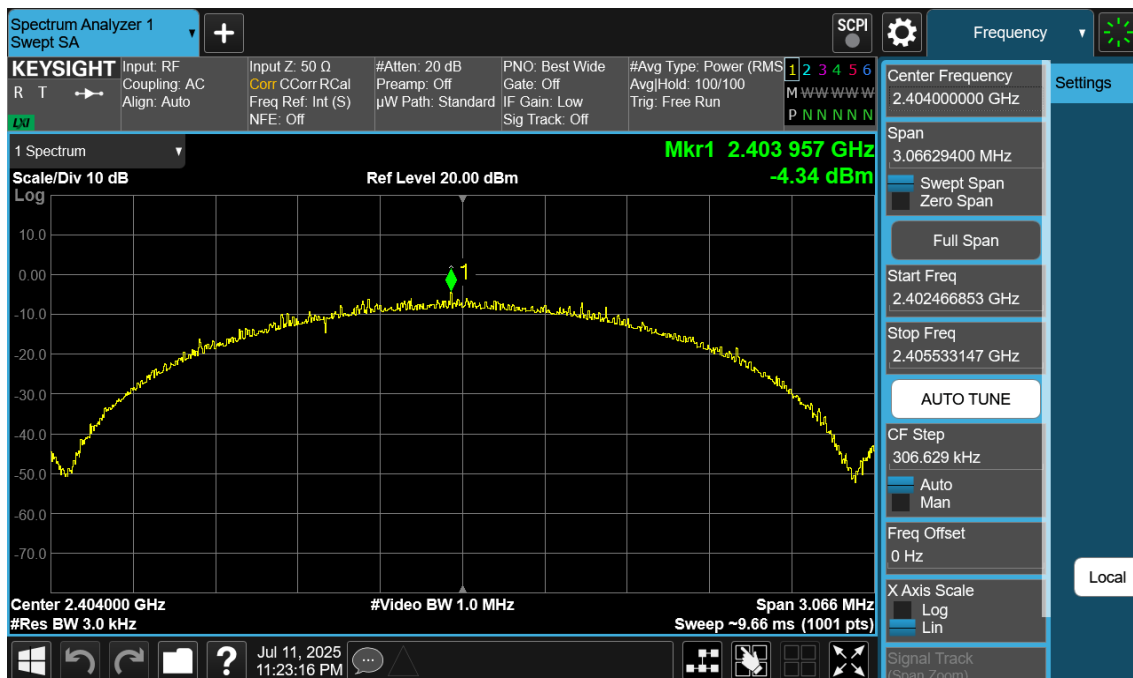


Plot 7-54. Power Spectral Density Plot Antenna WF8 (Bluetooth (LE), 1Mbps, iPA – Ch. 39)

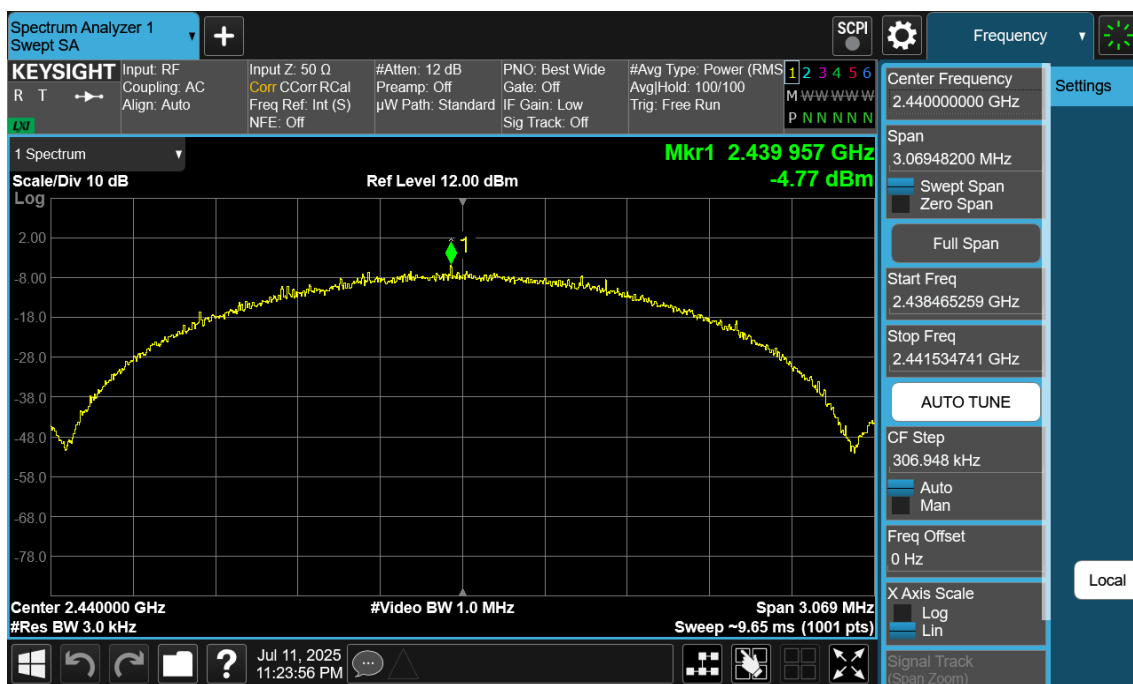
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Plot 7-55. Power Spectral Density Plot Antenna WF8 (Bluetooth (LE), 2Mbps, ePA – Ch. 1)

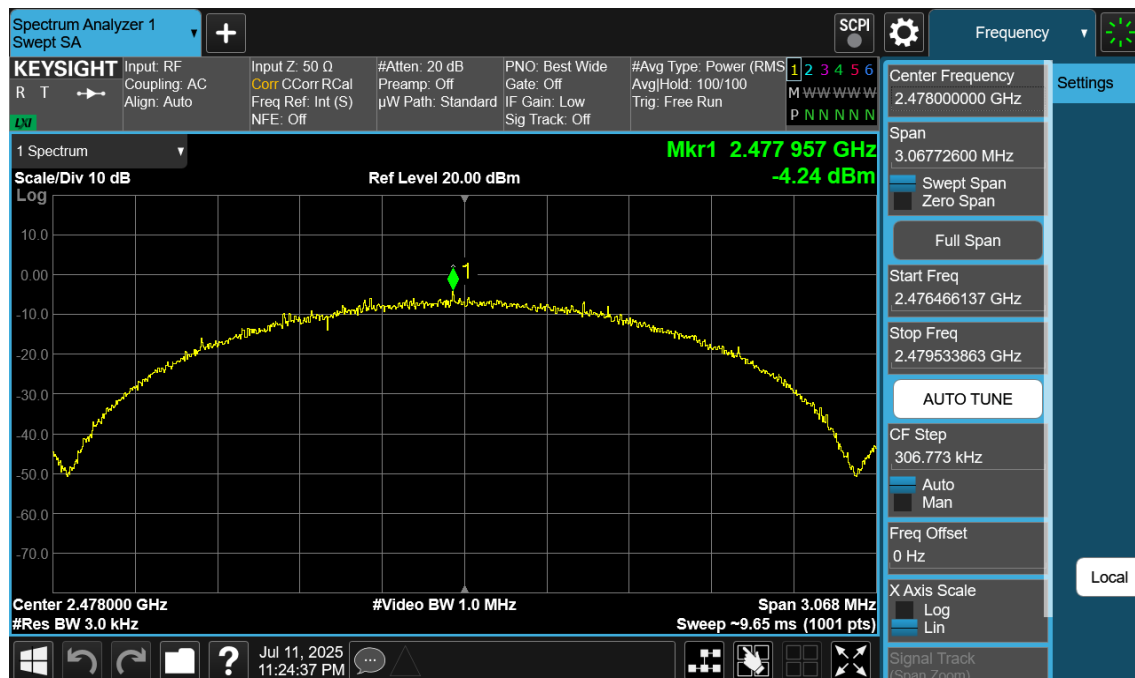


Plot 7-56. Power Spectral Density Plot Antenna WF8 (Bluetooth (LE), 2Mbps, ePA – Ch. 19)

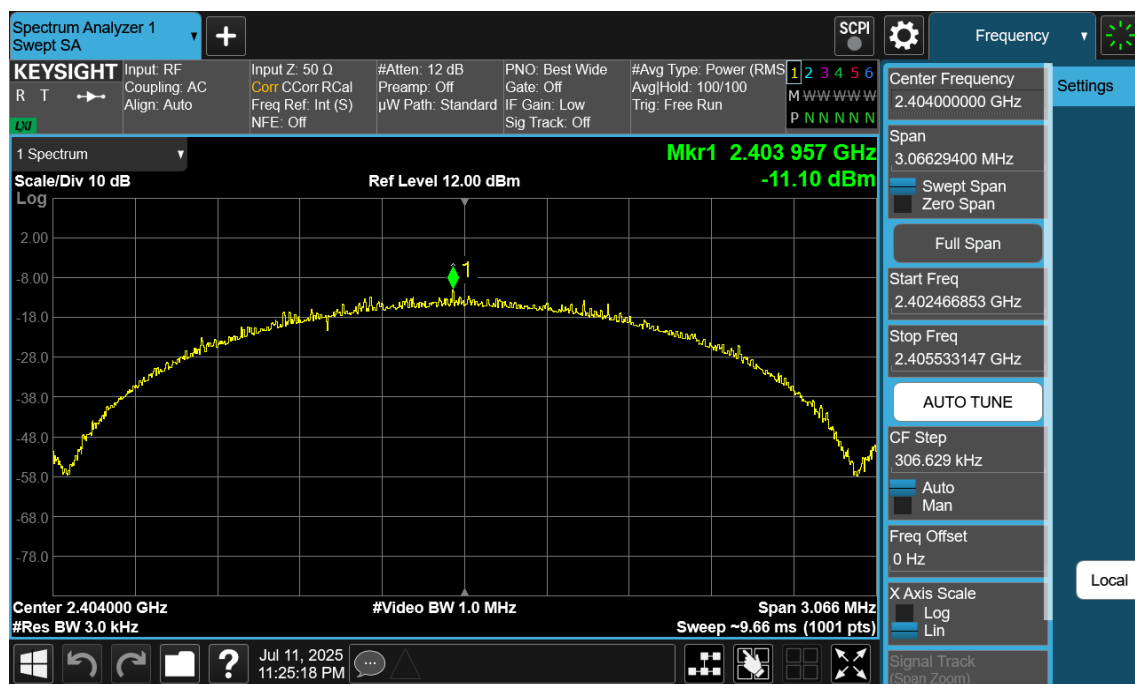
FCC ID: BCGA3357 IC: 579C-A3357		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-57. Power Spectral Density Plot Antenna WF8 (Bluetooth (LE), 2Mbps, ePA – Ch. 38)



Plot 7-58. Power Spectral Density Plot Antenna WF8 (Bluetooth (LE), 2Mbps, iPA – Ch. 1)

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