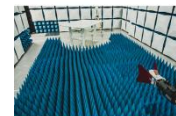




ELEMENT MATERIALS TECHNOLOGY

(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 (HDR)

Applicant Name:

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

Date of Testing:

6/11/2026 - 8/14/2026

Test Report Issue Date:

8/19/2026

Test Site/Location:

Element Materials Technology, Morgan Hill, CA, USA

Test Report Serial No.:

1C2606090047-03-R2.BCG

FCC ID:

BCG-A3440

IC:

579C-A3440

APPLICANT:

Apple Inc.

Application Type:

Certification

Model/HVIN:

A3440

EUT Type:

Wireless Left Earbud

Max. RF Output Power:

46.238 mW (16.65 dBm) Peak Conducted

Frequency Range:

2404 – 2476MHz

FCC Classification:

Digital Transmission System (DTS)

FCC Rule Part(s):

Part 15 Subpart C (15.247)

ISED Specification:

RSS-247 Issue 4

Test Procedure(s):

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

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

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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Revision Summary

Revision	Date	Comments	Revised By
-	8/13/2026	Initial Release	WKR016622
R1	8/17/2026	Addressed comments in section 2.5 to 7.9	WKR07203
R2	8/17/2026	Addressed comments in section 7.8	WKR007200

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1.0 INTRODUCTION

1.1 Scope

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

1.2 Element Materials Technology Test Location

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

1.3 Test Facility / Accreditations

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

- Element Materials Technology is an ISO 17025-2017 accredited test facility under the American Association for Laboratory Accreditation (A2LA) with Certificate number 2041.02 for Specific Absorption Rate (SAR), Hearing Aid Compatibility (HAC) testing, where applicable, and Electromagnetic Compatibility (EMC) testing for FCC and Innovation, Science, and Economic Development Canada rules.
- Element Washington DC LLC TCB is a Telecommunication Certification Body (TCB) accredited to ISO/IEC 17065-2012 by A2LA (Certificate number 2041.03) in all scopes of FCC Rules and ISED Standards (RSS).
- Element Materials Technology facility is a registered test laboratory with the site description on file with ISED (Wireless Test Lab number 22831) and FCC (Designation Number US1163).
- Element Washington DC LLC is a Recognized U.S. Certification Assessment Body (CAB # US0110) for ISED Canada as designated by NIST under the U.S. and Canada Mutual Recognition Agreements (MRAs).

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2.0 PRODUCT INFORMATION

2.1 Equipment Description

The Equipment Under Test (EUT) is the **Apple Wireless Left Earbud FCC ID: BCG-A3440, IC: 579C-A3440**. The data found in this test report was taken with the EUT operating in Bluetooth HDR mode. While in HDR mode, the Bluetooth transmitter hops pseudo-randomly between 73 channels.

Test Device Serial No.: J5MHTK0001C0001HBM, J5MHTJ0002Y0001HBM, GJPHSQ0001Z00016K8

2.2 Device Capabilities

This device contains the following capabilities:

Bluetooth (1x, EDR, LE, HDR, HDRp), Narrowband (NB) UNII (5GHz and 6GHz)

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

Table 2-1. Bluetooth HDR Frequency / Channel Operations

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

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

Measured Duty Cycles		
HDR Mode	Duty Cycles [%]	DCCF [dB]
HDR4	78.0	1.08
HDR8	77.8	1.09
HDRp4	87.1	0.60
HDRp8	87.5	0.58

Table 2-2. Measured Duty Cycles

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2.3 Antenna Description

The following antenna gains provided by manufacturer were used for testing. The validity of the calculated results is based on the accuracy of the information provided.

Frequency [GHz]	Antenna Gain (dBi)
2.4	-5.50

Table 2-3. 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: C4H042705ZNPM0WA6
2	Apple Airpod Charging Case	Model: A3059	S/N: D0C2M5YQGR
3	USB-C Cable w/ AC Adapter	Model: A2905 Model: A3228	S/N: FTLH3N00N3S000002J S/N: C4HHAU000PD0000EWW
4	Apple USB-C Cable	Model: Spartan	S/N: 000MKTR02U

Table 2-4. Test Support Equipment List

2.5 Test Configuration

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

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 charged by charging case and powered by AC/DC adaptor with USB-C cable
- EUT charged by charging case and powered by host PC with USB-C Cable

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2.6 Software and Firmware

The test was conducted with firmware version 9A315 installed on the EUT.

2.7 EMI Suppression Device(s)/Modifications

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

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3.0 DESCRIPTION OF TESTS

3.1 Evaluation Procedure

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

Deviation from measurement procedure.....None

3.2 AC Line Conducted Emissions

The line-conducted facility is located inside a 7m x 3.66m x 2.7m shielded enclosure. The shielded enclosure is manufactured by AP Americas. The shielding effectiveness of the shielded room is in accordance with MIL-Std-285 or NSA 65-5. A 1m x 1.5m wooden table 80cm high is placed 40cm away from the vertical wall and 80cm away from the sidewall of the shielded room. Two 10kHz-30MHz, 50Ω/50μH Line-Impedance Stabilization Networks (LISNs) are bonded to the shielded room floor. Power to the LISNs is filtered by external high-current high-insertion loss power line filters. The external power line filter is an EPCOS 2X60A Power Line Filter (100dB Attenuation, 14kHz-18GHz) and the two EPCOs 2X48A filters (100dB Minimum Insertion Loss, 14kHz – 10GHz). These filters attenuate ambient signal noise from entering the measurement lines. These filters are also bonded to the shielded enclosure.

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

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

Line conducted emissions test results are shown in Section 7.10. Automated test software was used to perform the AC line conducted emissions testing. Automated measurement software utilized is Rohde & Schwarz EMC32, Version 10.50.40.

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3.3 Radiated Emissions

The radiated test facilities consisted of an indoor 3 meter semi-anechoic chamber used for final measurements and exploratory measurements, when necessary. The measurement area is contained within the semi-anechoic chamber which is shielded from any ambient interference. The test site inside the chamber is a 6m x 5.2m elliptical, obstruction-free area in accordance with Figure 5.7 of Clause 5 in ANSI C63.4-2014. Absorbers are arranged on the floor between the turn table and the antenna mast in such a way so as to maximize the reduction of reflections for measurements above 1GHz. An 80cm tall test table made of Styrodur is placed on top of the turn table. For measurements above 1GHz, an additional Styrodur pedestal is placed on top of the test table to bring the total table height to 1.5m.

Per KDB 414788 D01 v01r01, radiated emission test sites other than open-field test sites (e.g., shielded anechoic chambers), may be employed for emission measurements below 30MHz if characterized so that the measurements correspond to those obtained at an open-field test site. To determine test site equivalency, a reference sample transmitting at 149kHz was measured on an open field test site (asphalt with no ground plane) and then measured in the 3m semi-anechoic chamber. A calibrated 60cm loop antenna was rotated about its vertical axis while the reference device was rotated through the X, Y and Z axis in order to capture the worst case level. A maximum deviation of 2.77dB at 149kHz was measured when comparing the 3 meter semi-anechoic chamber to the open field site.

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

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

3.4 Environmental Conditions

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

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4.0 ANTENNA REQUIREMENTS

Excerpt from §15.203 of the FCC Rules/Regulations:

“An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.”

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

Conclusion:

The EUT complies with the requirement of §15.203.

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5.0 MEASUREMENT UNCERTAINTY

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

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

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6.0 TEST EQUIPMENT CALIBRATION DATA

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

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Agilent	N9020A	MXA Signal Analyzer	7/7/2025	Biennial	7/7/2027	MY56470202
Anritsu	ML2496A	Power Meter	4/6/2026	Annual	4/6/2027	1306009
Anritsu	MA2411B	Pulse Power Sensor	10/14/2025	Annual	10/14/2026	1726262
ATM	180-442-KF	20dB Nominal Gain Horn Antenna	3/31/2026	Annual	3/31/2027	T058601-02
ETS-Lindgren	3117	Double Ridged Guide Horn (1-18 GHz)	4/21/2026	Annual	4/21/2027	218555
Fairview Microwave/MCL	FMCA1975-36/BW-K10-2W44+	30MHz-40GHz RF Cable/Attenuator *	6/10/2026	Annual	6/10/2027	-
Keysight Technology	N9040B	UXA Signal Analyzer	9/8/2025	Annual	9/8/2026	MY61320121
Rohde & Schwarz	TS-PR18	Pre-Amplifier (1GHz - 18GHz)	8/6/2025	Annual	8/6/2026	101639
Rohde & Schwarz	FSW43	Spectrum Analyzer 2Hz to 43GHz	8/5/2025	Annual	8/5/2026	104093
Rohde & Schwarz	ESW44	EMI Test Receiver 2Hz to 44 GHz	5/20/2026	Annual	5/20/2027	101570
Rohde & Schwarz	TS-PR8	Pre-Amplifier (30MHz - 8GHz)	10/14/2025	Annual	10/14/2026	102328
Rohde & Schwarz	TS-PR1840	Pre-Amplifier (18GHz - 40GHz)	7/17/2026	Annual	7/17/2027	100052
Rohde & Schwarz	ENV216	Two-Line V-Network	8/18/2025	Annual	8/18/2026	101363
Schwarzbeck	3142E	Bilog Antenna (30MHz - 6GHz)	9/30/2025	Annual	9/30/2026	224569

Table 6-1. Test Equipment List

Note:

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

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7.0 TEST RESULTS

7.1 Summary

Company Name: Apple Inc.
 FCC ID: BCG-A3440
 IC: 579C-A3440
 FCC Classification: Digital Transmission System (DTS)
 Number of Channels: 73

FCC Part Section(s)	RSS Section(s)	Test Description	Test Limit	Test Condition	Test Result	Reference
15.247(a)(2)	RSS-247 [6.3.1(a)]	6dB Bandwidth	> 500kHz	CONDUCTED	PASS	Section 7.3
2.1049	RSS-Gen [5.1]	Occupied Bandwidth	N/A		N/A	Section 7.2
15.247(b)(3)	RSS-247 [6.3.2]	Transmitter Output Power	< 1 Watt		PASS	Sections 7.4
15.247(e)	RSS-247 [6.3.1(b)]	Transmitter Power Spectral Density	< 8dBm / 3kHz Band		PASS	Section 7.5
15.247(d)	RSS-247 [6.6]	Band Edge / Out-of-Band Emissions	≥ 20dBc		PASS	Sections 7.6, 7.8
15.205 15.209	RSS-Gen [7.4.3]	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 [7.4.3])	RADIATED	PASS	Sections 7.8, 7.9
15.207	RSS-Gen [7.4.2]	AC Conducted Emissions 150kHz – 30MHz	< FCC 15.207 limits (RSS-Gen [7.4.2])	AC LINE CONDUCTED	PASS	Section 7.10

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 1.5.0.
- 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 3.6.1.

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7.2 99% Occupied Bandwidth

Test Overview

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

Test Procedure Used

ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 – Subclause 11.8.2 Option 2
KDB 558074 D01 v05r02 – Section 8.2
RSS-Gen [5.1]

Test Settings

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

FCC ID: BCG-A3440 IC: 579C-A3440	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 6/11/2026 - 8/14/2026	EUT Type: Wireless Left Earbud	Approved by: Technical Manager
Test Report S/N: 1C2606090047-03-R2.BCG	 This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.			Page 14 of 76

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

None

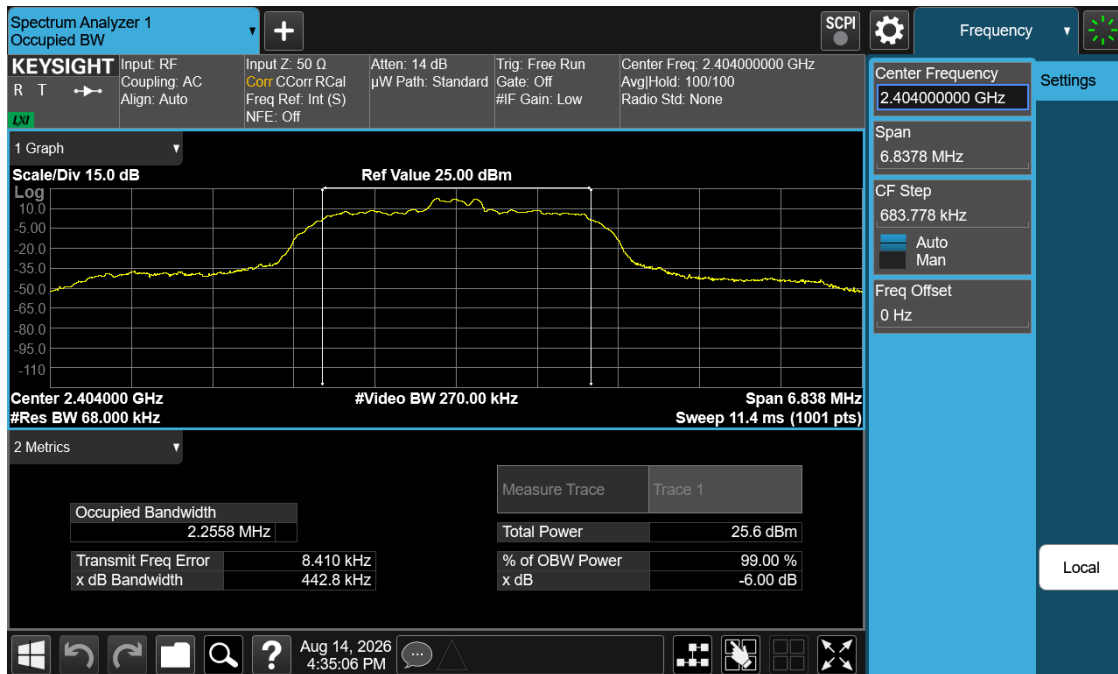
FCC ID: BCG-A3440 IC: 579C-A3440	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 6/11/2026 - 8/14/2026	EUT Type: Wireless Left Earbud	Approved by: Technical Manager
Test Report S/N: 1C2606090047-03-R2.BCG	 This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.			Page 15 of 76

Frequency [MHz]	Mode	Channel	Measured 99% Occupied Bandwidth [MHz]
2404	HDR4	1	2.26
2441	HDR4	38	2.26
2476	HDR4	73	2.26
2404	HDR8	1	4.56
2441	HDR8	38	4.56
2476	HDR8	73	4.56
2404	HDRp4	1	2.42
2441	HDRp4	38	2.42
2476	HDRp4	73	2.42
2404	HDRp8	1	4.84
2441	HDRp8	38	4.83
2476	HDRp8	73	4.83

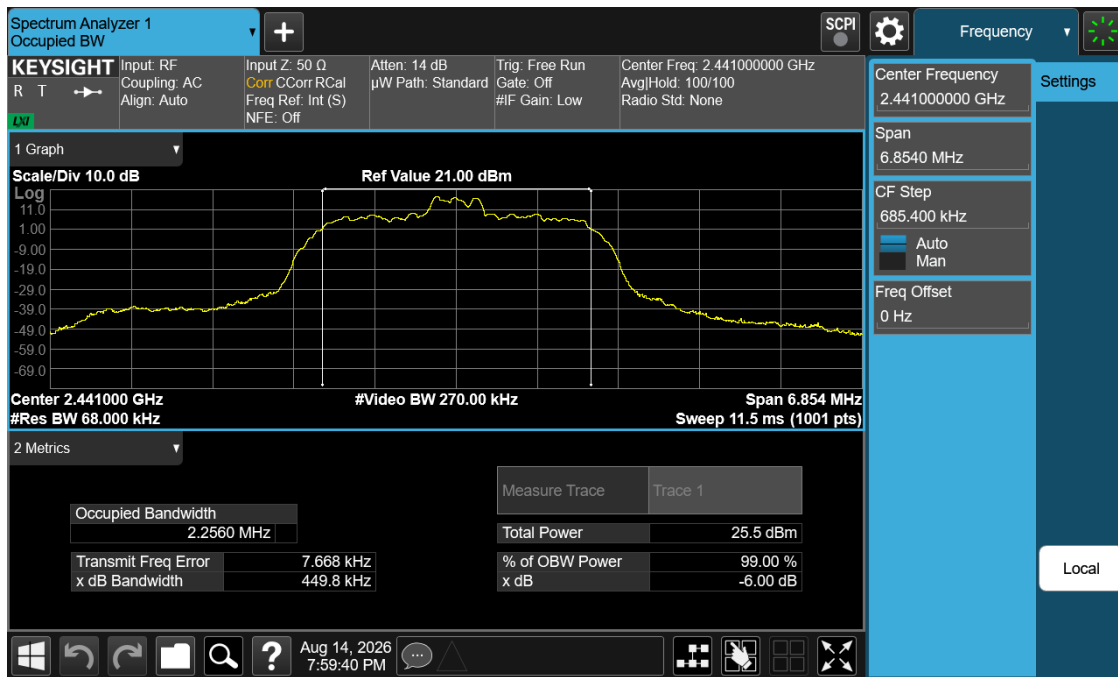
Table 7-2. 99% OBW Measurements

FCC ID: BCG-A3440 IC: 579C-A3440	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 6/11/2026 - 8/14/2026	EUT Type: Wireless Left Earbud	Approved by: Technical Manager
Test Report S/N: 1C2606090047-03-R2.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 16 of 76

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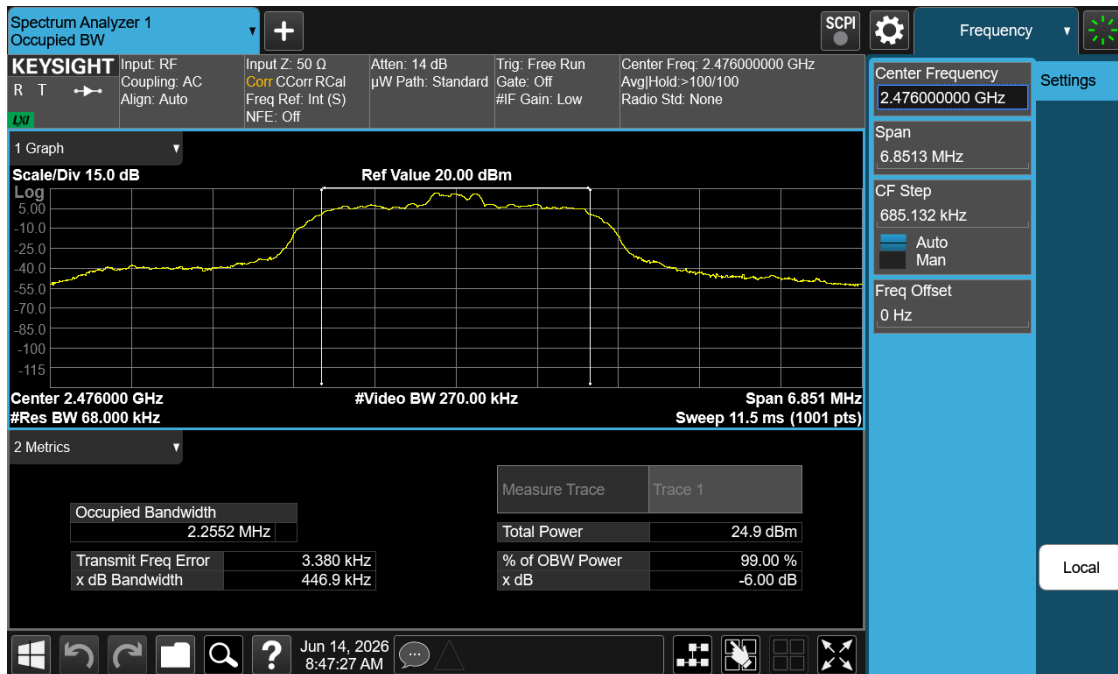


Plot 7-1. 99% OBW Plot (Bluetooth (HDR4), 4Mbps – Ch. 1)

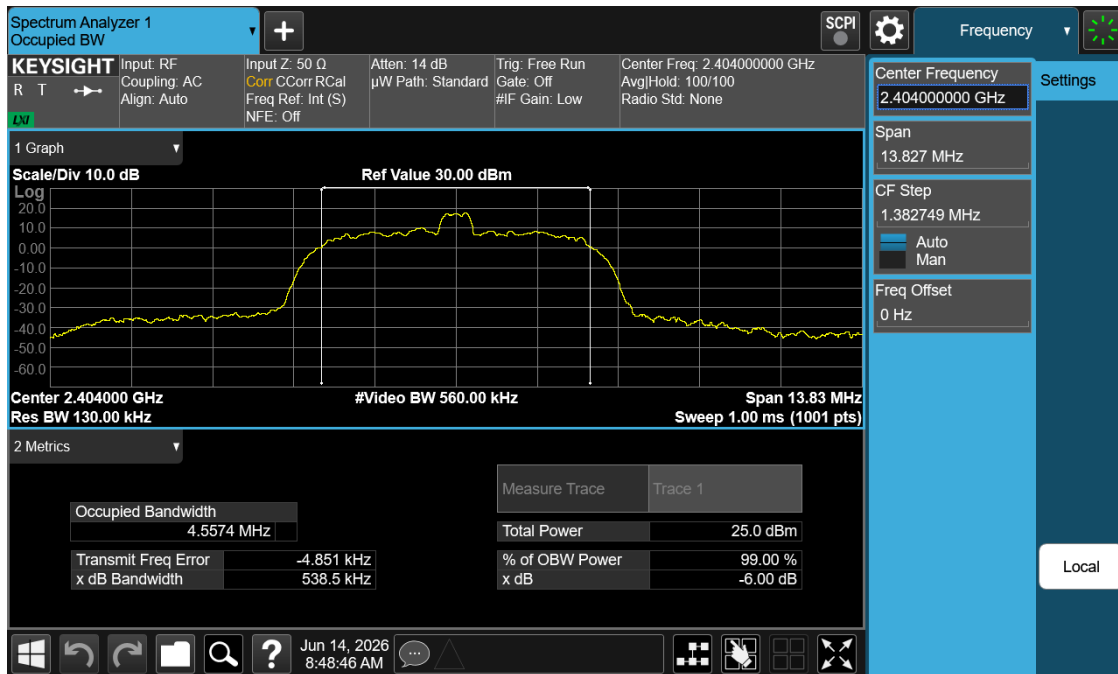


Plot 7-2. 99% OBW Plot (Bluetooth (HDR4), 4Mbps – Ch. 38)

FCC ID: BCG-A3440 IC: 579C-A3440	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 6/11/2026 - 8/14/2026	EUT Type: Wireless Left Earbud	Approved by: Technical Manager
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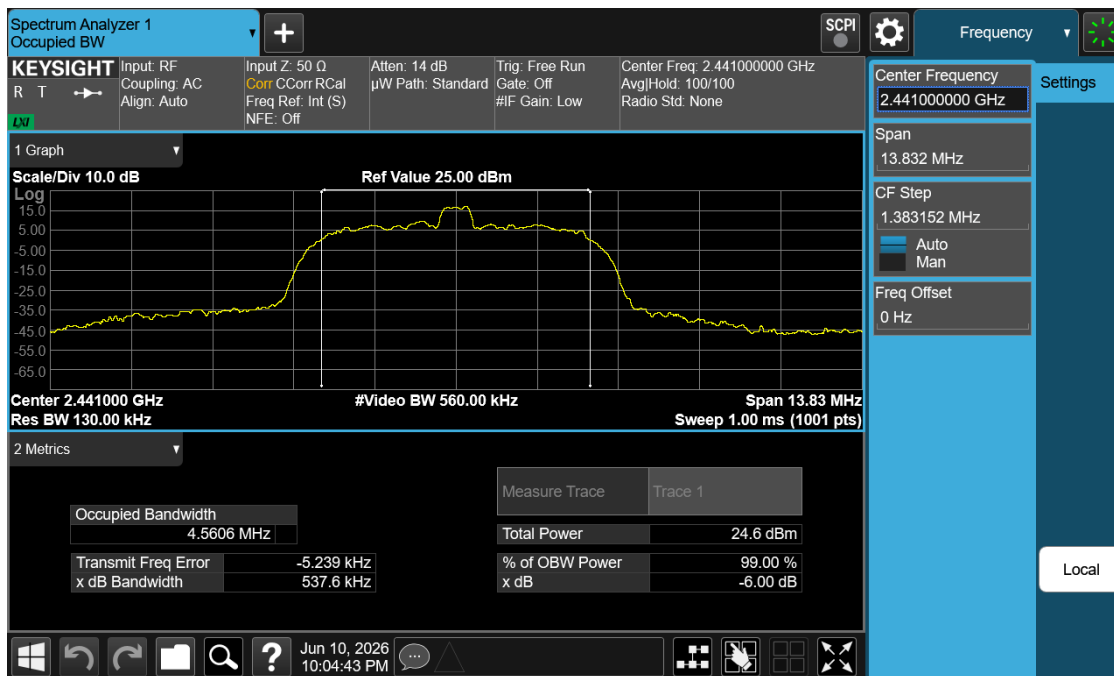


Plot 7-3. 99% OBW Plot (Bluetooth (HDR4), 4Mbps – Ch. 73)

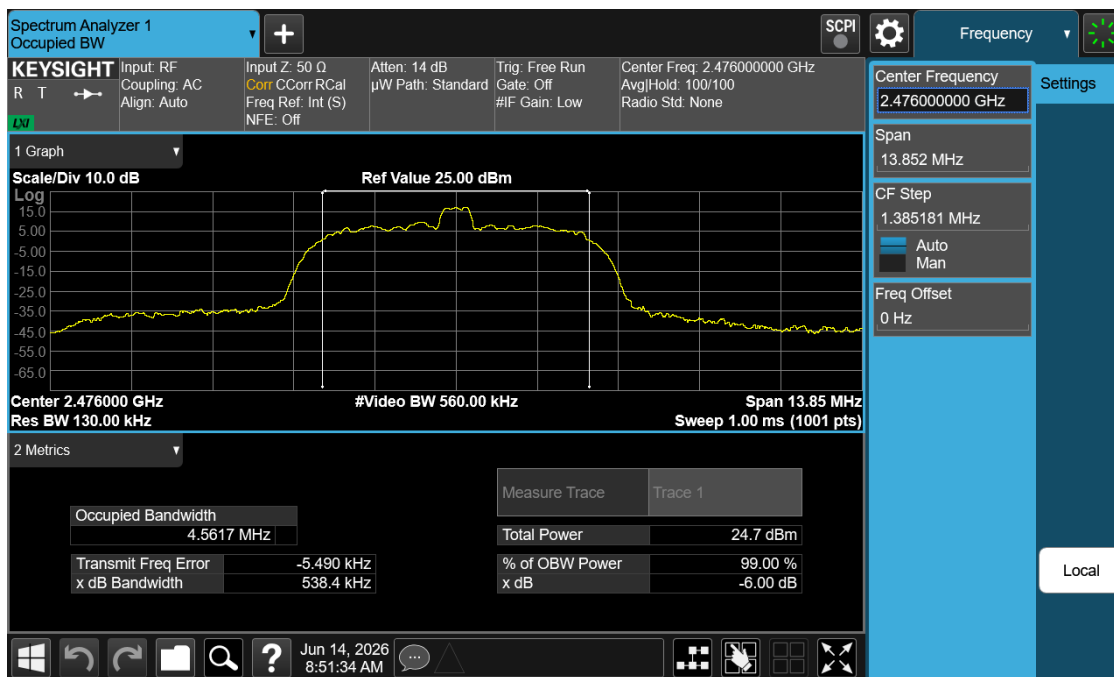


Plot 7-4. 99% OBW Plot (Bluetooth (HDR8), 8Mbps – Ch. 1)

FCC ID: BCG-A3440 IC: 579C-A3440	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 6/11/2026 - 8/14/2026	EUT Type: Wireless Left Earbud	Approved by: Technical Manager
Test Report S/N: 1C2606090047-03-R2.BCG	 This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.			Page 18 of 76

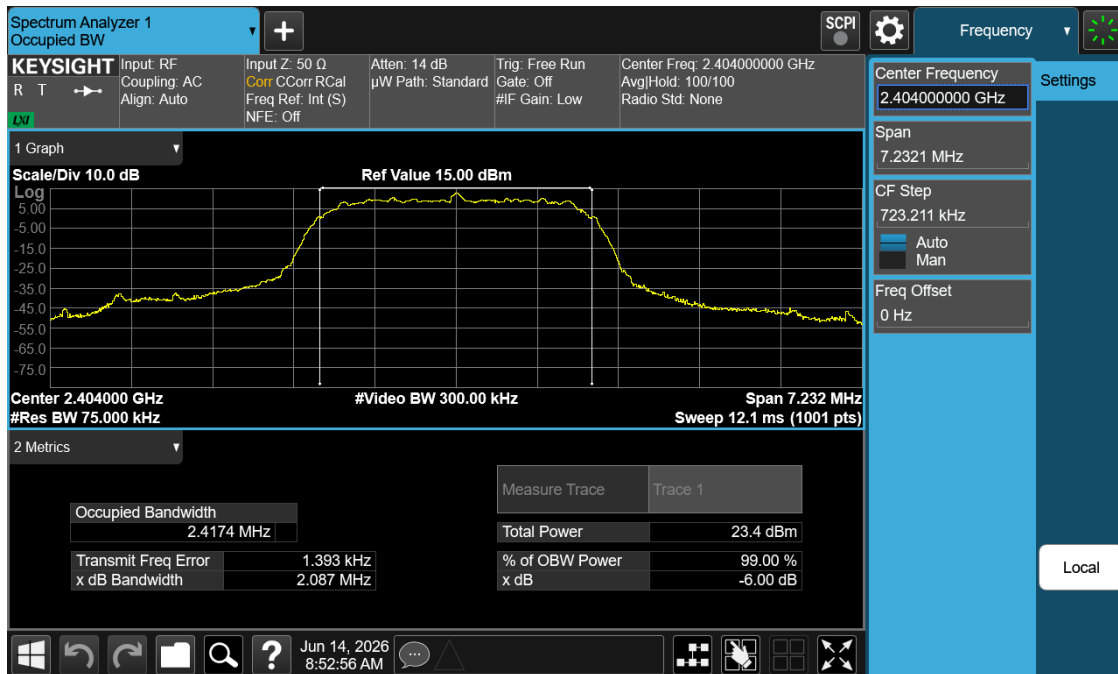


Plot 7-5. 99% OBW Plot (Bluetooth (HDR8), 8Mbps – Ch. 38)

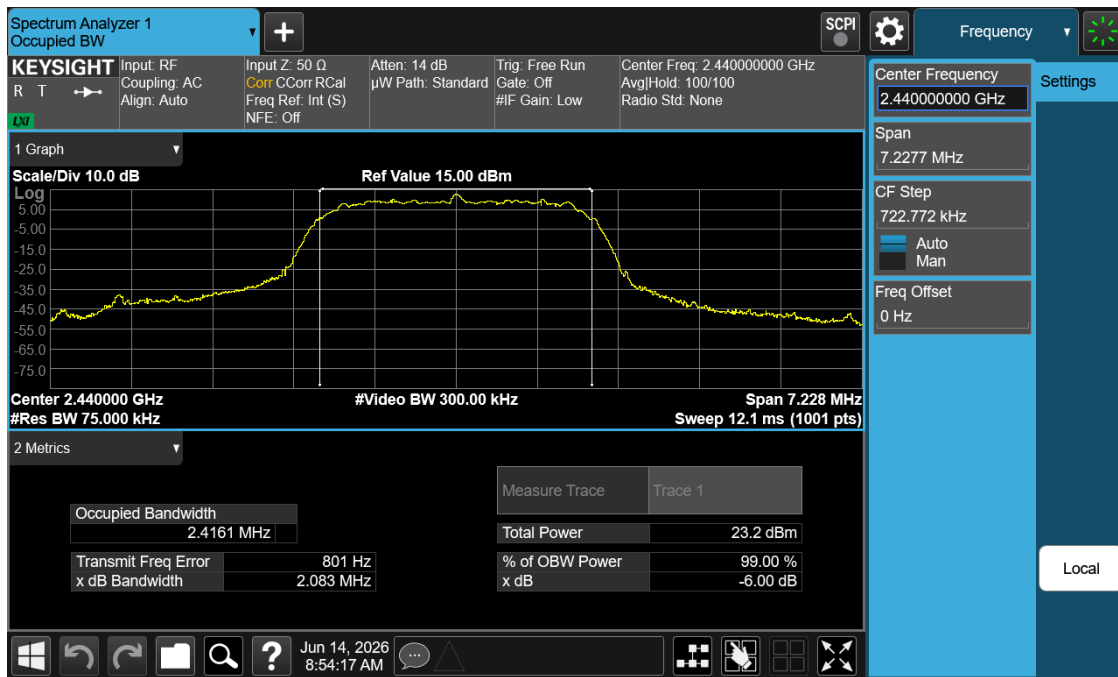


Plot 7-6. 99% OBW Plot (Bluetooth (HDR8), 8Mbps – Ch. 73)

FCC ID: BCG-A3440 IC: 579C-A3440	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 6/11/2026 - 8/14/2026	EUT Type: Wireless Left Earbud	Approved by: Technical Manager
Test Report S/N: 1C2606090047-03-R2.BCG	 This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.			Page 19 of 76

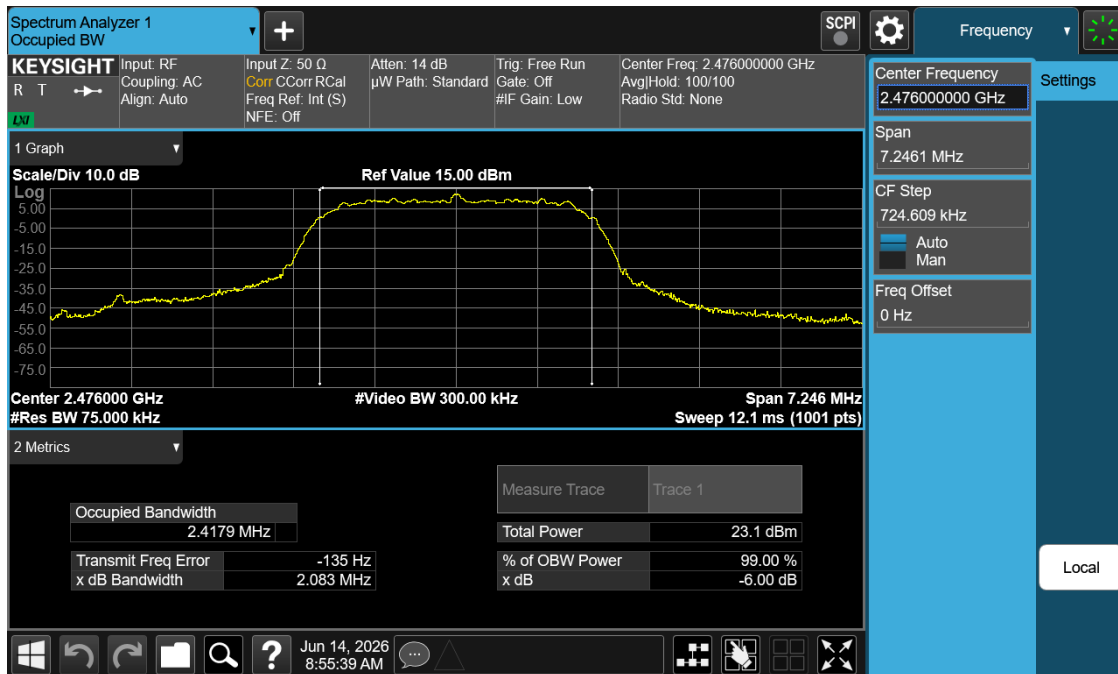


Plot 7-7. 99% OBW Plot (Bluetooth (HDRp4), 4Mbps – Ch. 1)

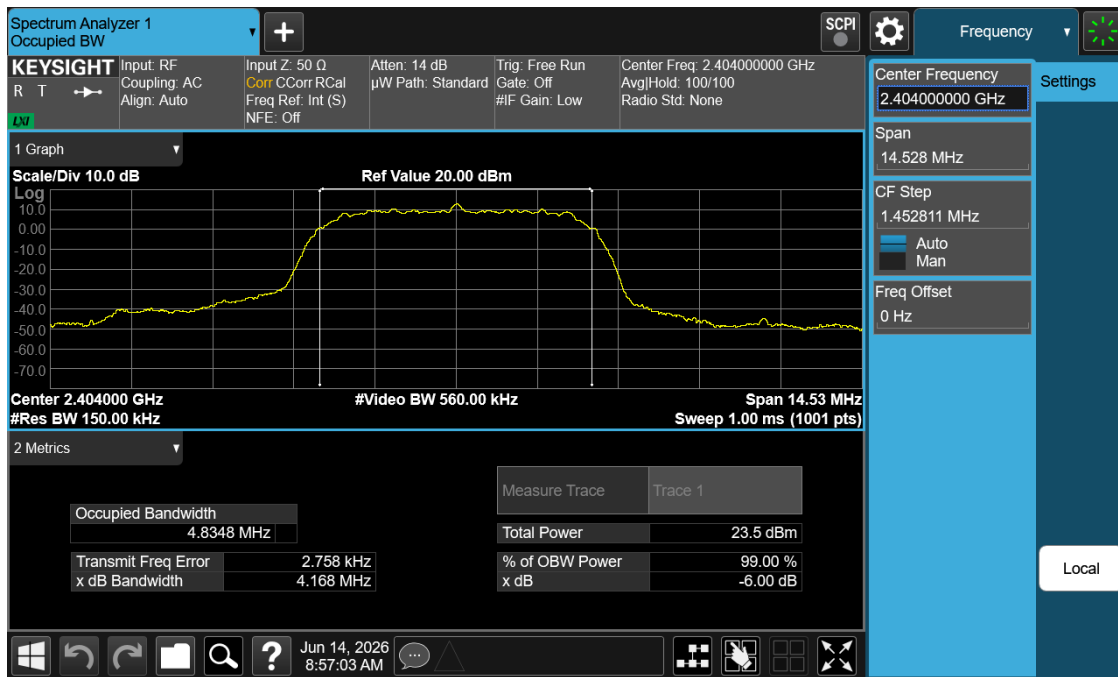


Plot 7-8. 99% OBW Plot (Bluetooth (HDRp4), 4Mbps – Ch. 38)

FCC ID: BCG-A3440 IC: 579C-A3440	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 6/11/2026 - 8/14/2026	EUT Type: Wireless Left Earbud	Approved by: Technical Manager
Test Report S/N: 1C2606090047-03-R2.BCG	 This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.			Page 20 of 76



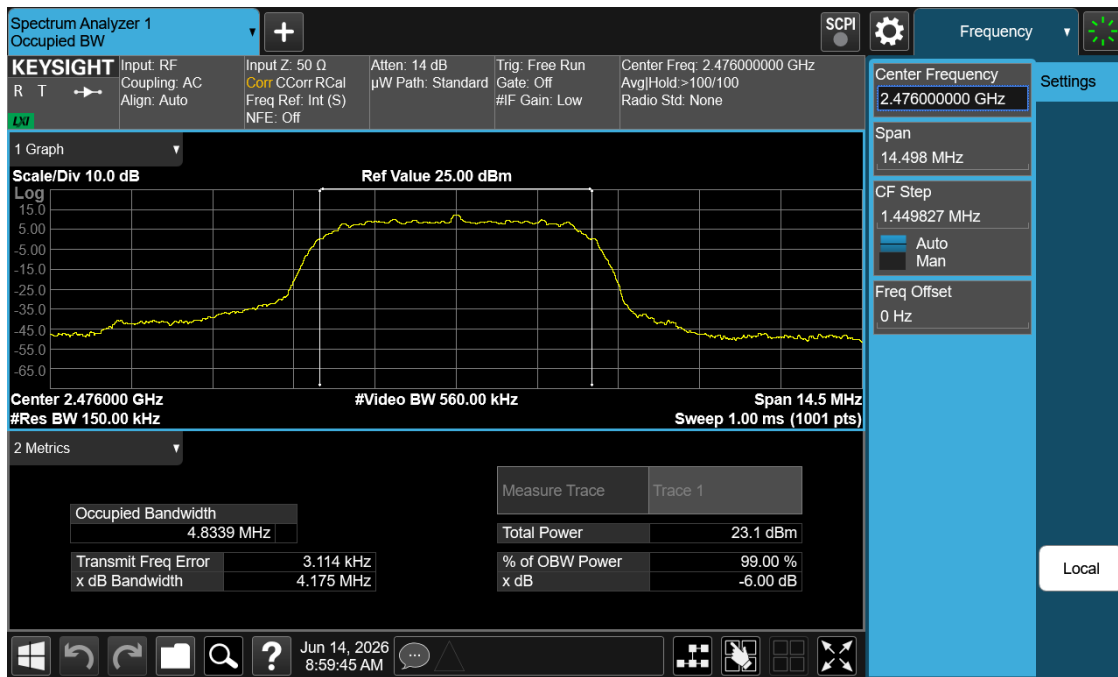
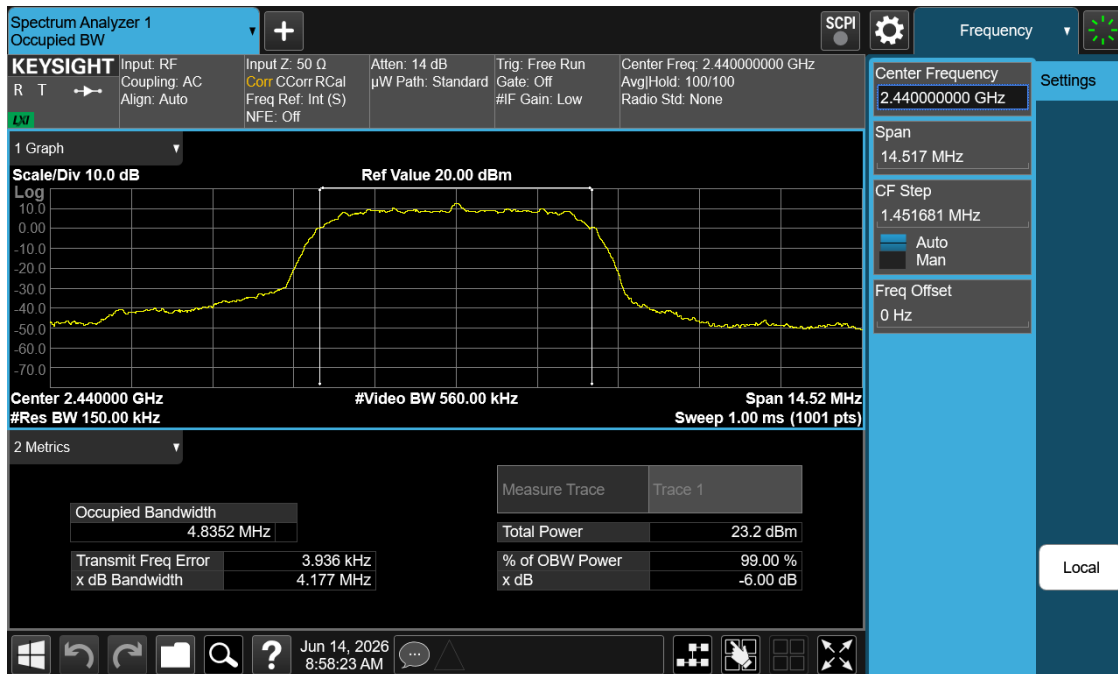
Plot 7-9. 99% OBW Plot (Bluetooth (HDRp4), 4Mbps – Ch. 73)



Plot 7-10. 99% OBW Plot (Bluetooth (HDRp8), 8Mbps, – Ch. 1)

FCC ID: BCG-A3440 IC: 579C-A3440	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 6/11/2026 - 8/14/2026	EUT Type: Wireless Left Earbud	Approved by: Technical Manager
Test Report S/N: 1C2606090047-03-R2.BCG	 This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.			Page 21 of 76

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FCC ID: BCG-A3440 IC: 579C-A3440	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 6/11/2026 - 8/14/2026	EUT Type: Wireless Left Earbud	Approved by: Technical Manager
Test Report S/N: 1C2606090047-03-R2.BCG	 This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.			Page 22 of 76

7.3 6 dB Bandwidth

Test Overview and Limit

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

The minimum permissible 6dB bandwidth is 500 kHz.

Test Procedure Used

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

Test Settings

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

FCC ID: BCG-A3440 IC: 579C-A3440	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 6/11/2026 - 8/14/2026	EUT Type: Wireless Left Earbud	Approved by: Technical Manager
Test Report S/N: 1C2606090047-03-R2.BCG	 This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.			Page 23 of 76

Test Setup

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



Figure 7-2. Test Instrument & Measurement Setup

Test Notes

None

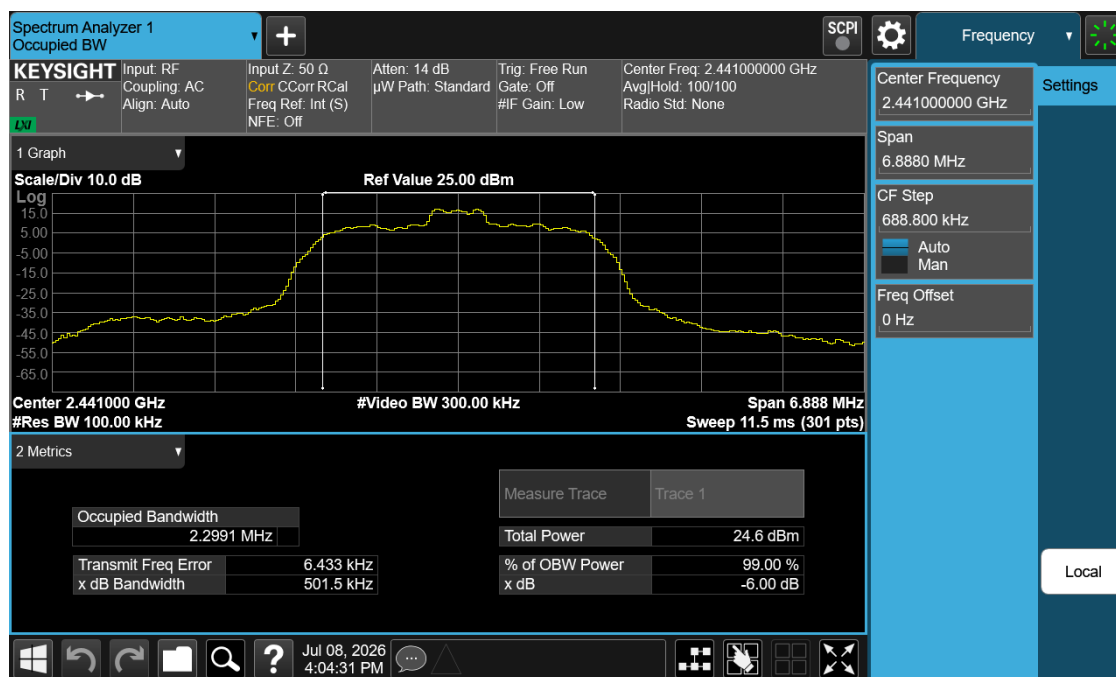
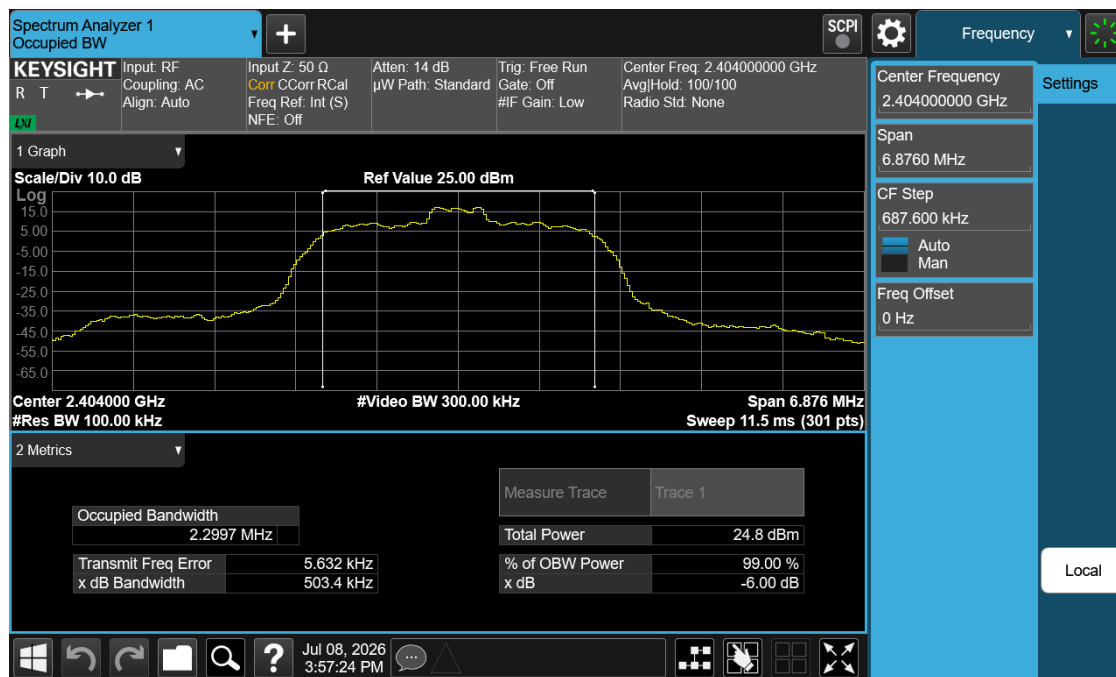
FCC ID: BCG-A3440 IC: 579C-A3440	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 6/11/2026 - 8/14/2026	EUT Type: Wireless Left Earbud	Approved by: Technical Manager
Test Report S/N: 1C2606090047-03-R2.BCG	 This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.			Page 24 of 76

Frequency [MHz]	Mode	Power Scheme	Channel	Measured 6dB Bandwidth [MHz]	Minimum 6dB Bandwidth [MHz]	Pass/Fail
2404	HDR4	ePA	1	0.503	0.50	Pass
2441	HDR4	ePA	38	0.502	0.50	Pass
2476	HDR4	ePA	73	0.504	0.50	Pass
2404	HDR8	ePA	1	0.508	0.50	Pass
2441	HDR8	ePA	38	0.509	0.50	Pass
2476	HDR8	ePA	73	0.510	0.50	Pass
2404	HDRp4	ePA	1	2.130	0.50	Pass
2441	HDRp4	ePA	38	2.122	0.50	Pass
2476	HDRp4	ePA	73	2.127	0.50	Pass
2404	HDRp8	ePA	1	4.106	0.50	Pass
2441	HDRp8	ePA	38	4.110	0.50	Pass
2476	HDRp8	ePA	73	4.105	0.50	Pass

Table 7-3. 6dB BW Measurements

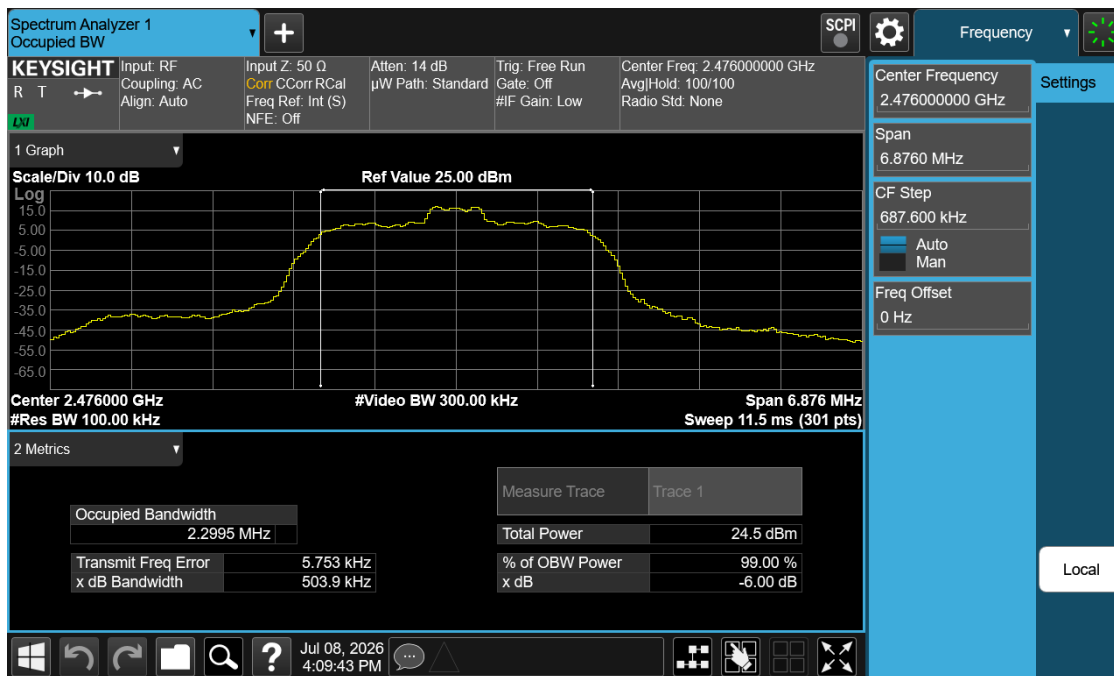
FCC ID: BCG-A3440 IC: 579C-A3440	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 6/11/2026 - 8/14/2026	EUT Type: Wireless Left Earbud	Approved by: Technical Manager
Test Report S/N: 1C2606090047-03-R2.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 25 of 76

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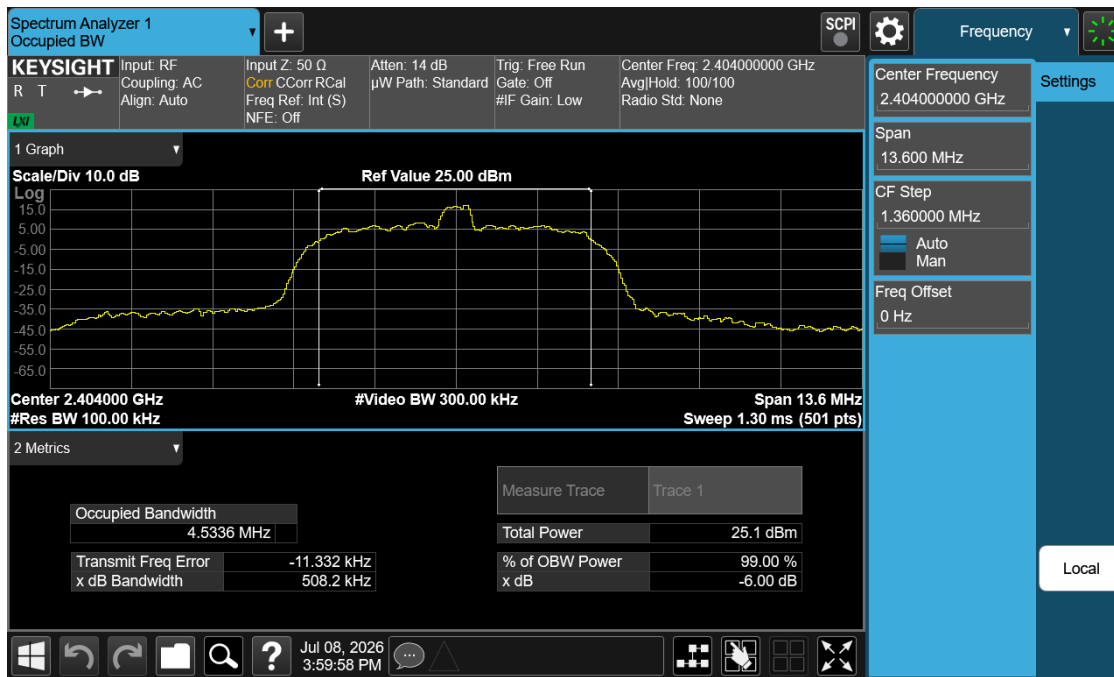


FCC ID: BCG-A3440 IC: 579C-A3440	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 6/11/2026 - 8/14/2026	EUT Type: Wireless Left Earbud	Approved by: Technical Manager
Test Report S/N: 1C2606090047-03-R2.BCG	 This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.			Page 26 of 76

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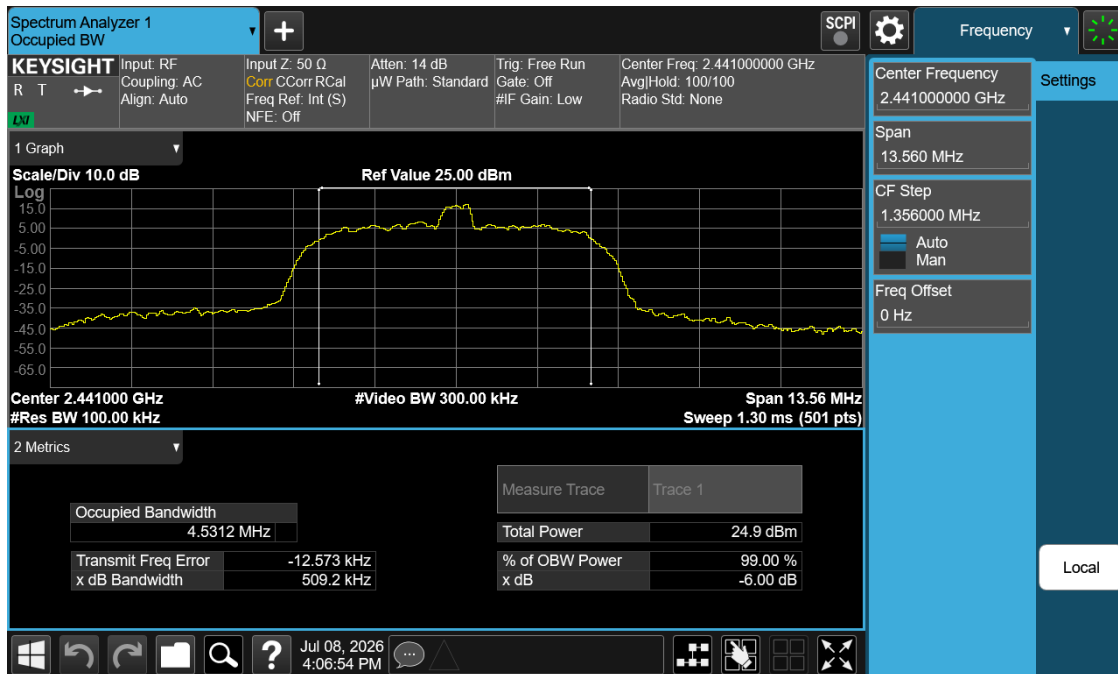


Plot 7-15. 6dB BW Plot (Bluetooth (HDR4), 4Mbps – Ch. 73)

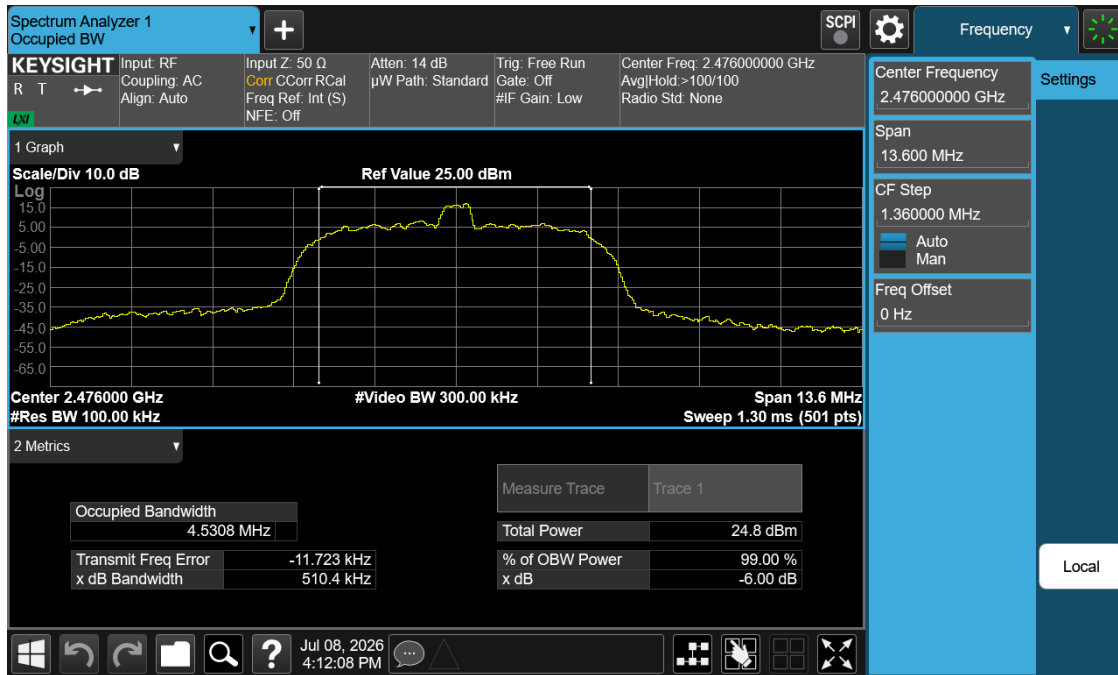


Plot 7-16. 6dB BW Plot (Bluetooth (HDR8), 8Mbps – Ch. 1)

FCC ID: BCG-A3440 IC: 579C-A3440	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 6/11/2026 - 8/14/2026	EUT Type: Wireless Left Earbud	Approved by: Technical Manager
Test Report S/N: 1C2606090047-03-R2.BCG	 This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.			Page 27 of 76

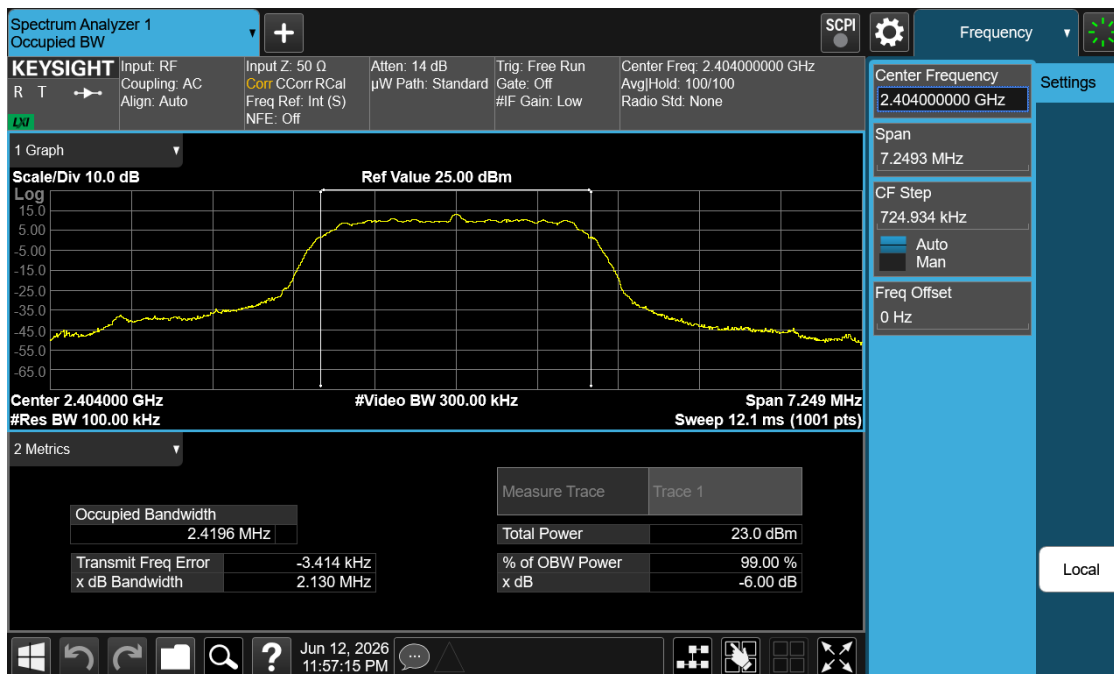


Plot 7-17. 6dB BW Plot (Bluetooth (HDR8), 8Mbps – Ch. 38)

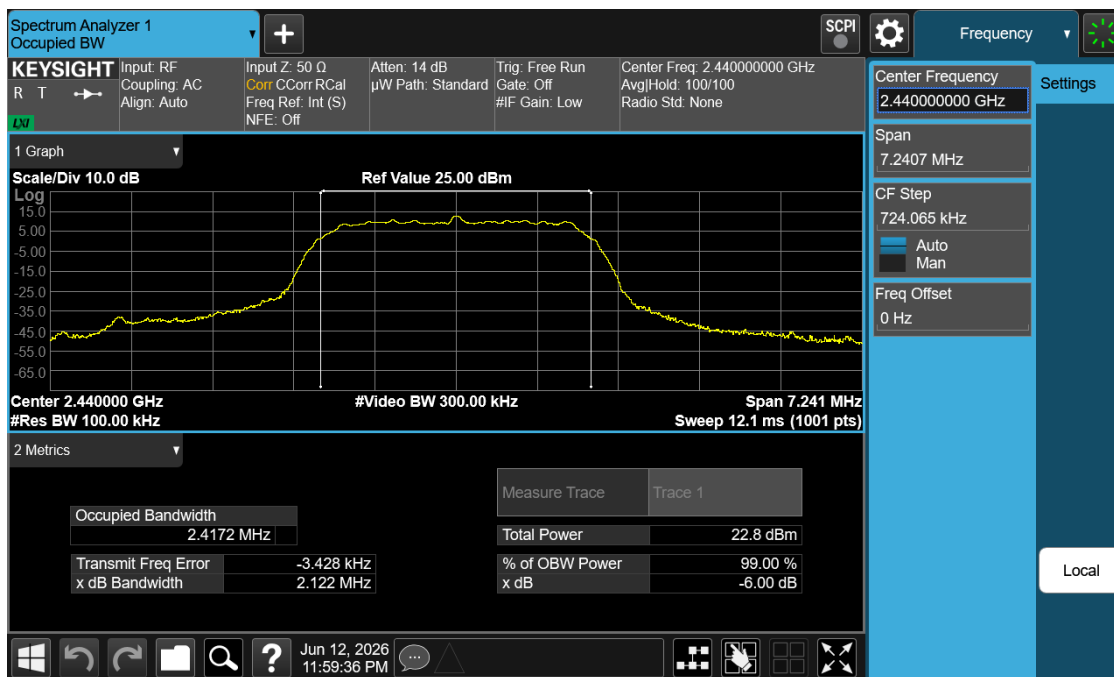


Plot 7-18. 6dB BW Plot (Bluetooth (HDR8), 8Mbps – Ch. 73)

FCC ID: BCG-A3440 IC: 579C-A3440	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 6/11/2026 - 8/14/2026	EUT Type: Wireless Left Earbud	Approved by: Technical Manager
Test Report S/N: 1C2606090047-03-R2.BCG	 This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.			Page 28 of 76

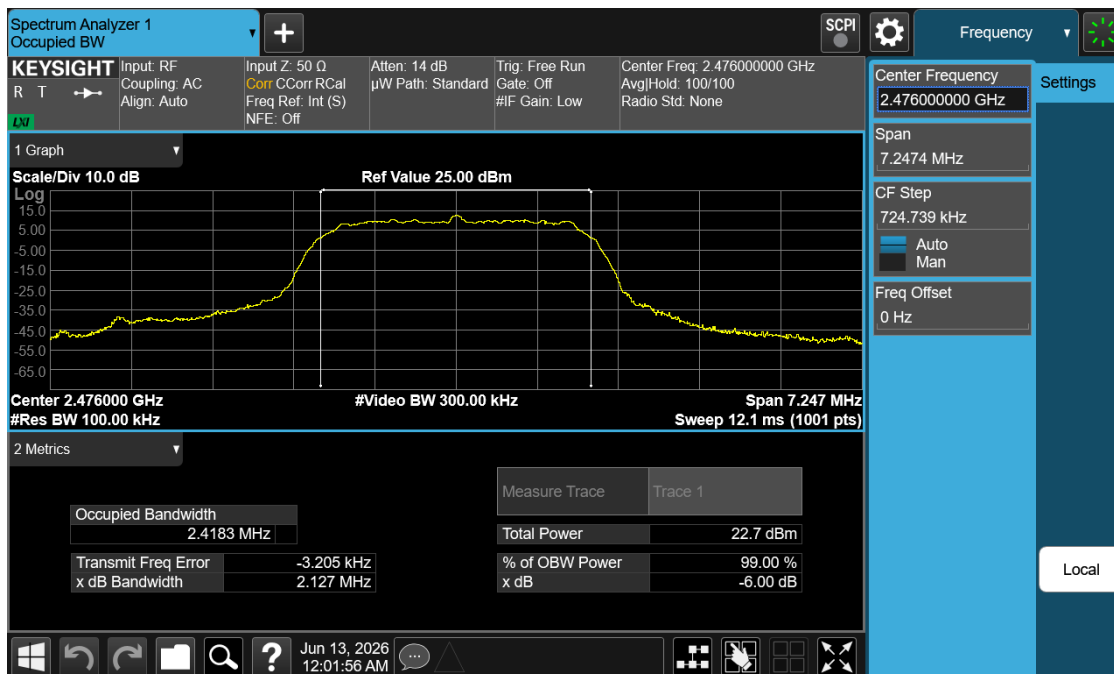


Plot 7-19. 6dB BW Plot (Bluetooth (HDRp4), 4Mbps – Ch. 1)

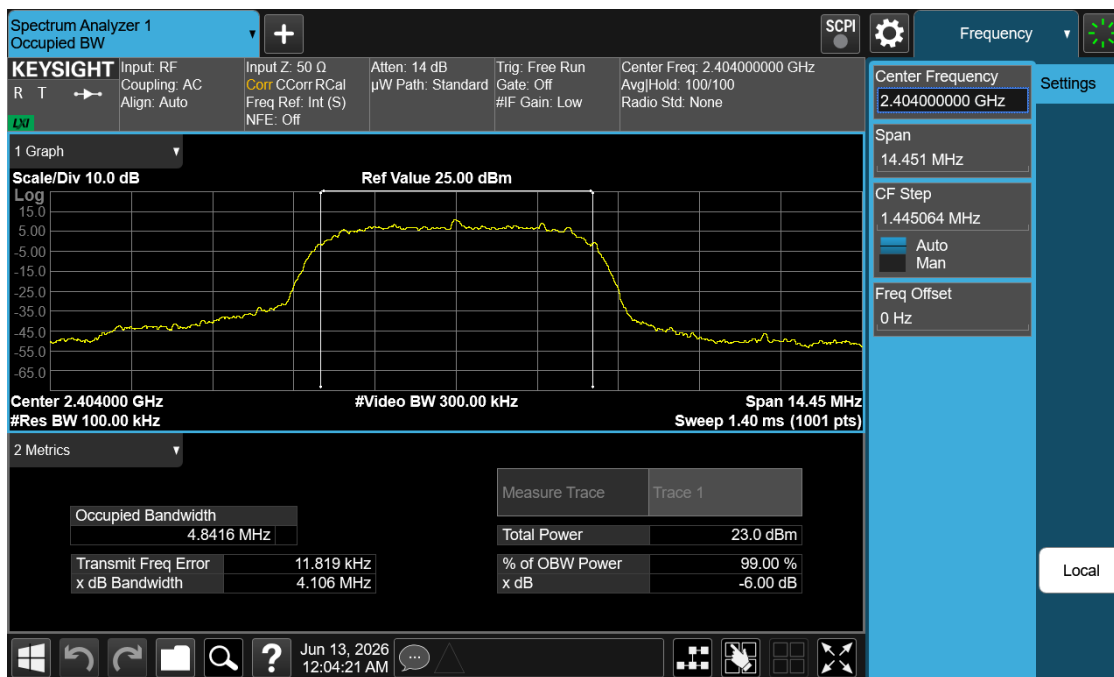


Plot 7-20. 6dB BW Plot (Bluetooth (HDRp4), 4Mbps – Ch. 38)

FCC ID: BCG-A3440 IC: 579C-A3440	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 6/11/2026 - 8/14/2026	EUT Type: Wireless Left Earbud	Approved by: Technical Manager
Test Report S/N: 1C2606090047-03-R2.BCG	 This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.			Page 29 of 76



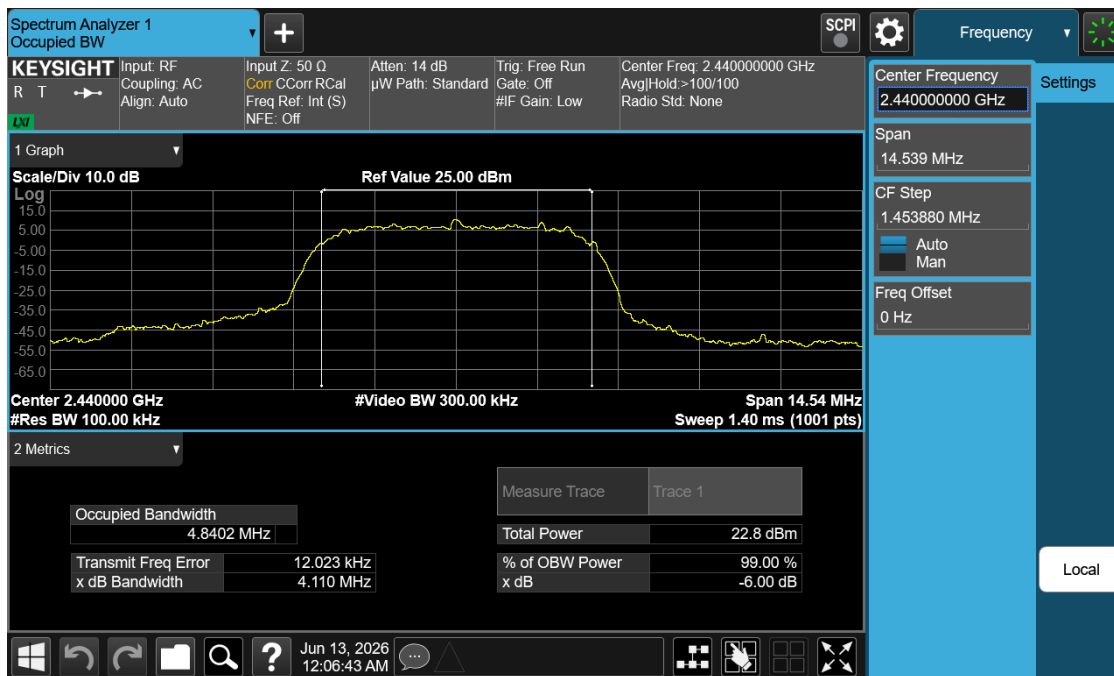
Plot 7-21. 6dB BW Plot (Bluetooth (HDRp4), 4Mbps – Ch. 73)



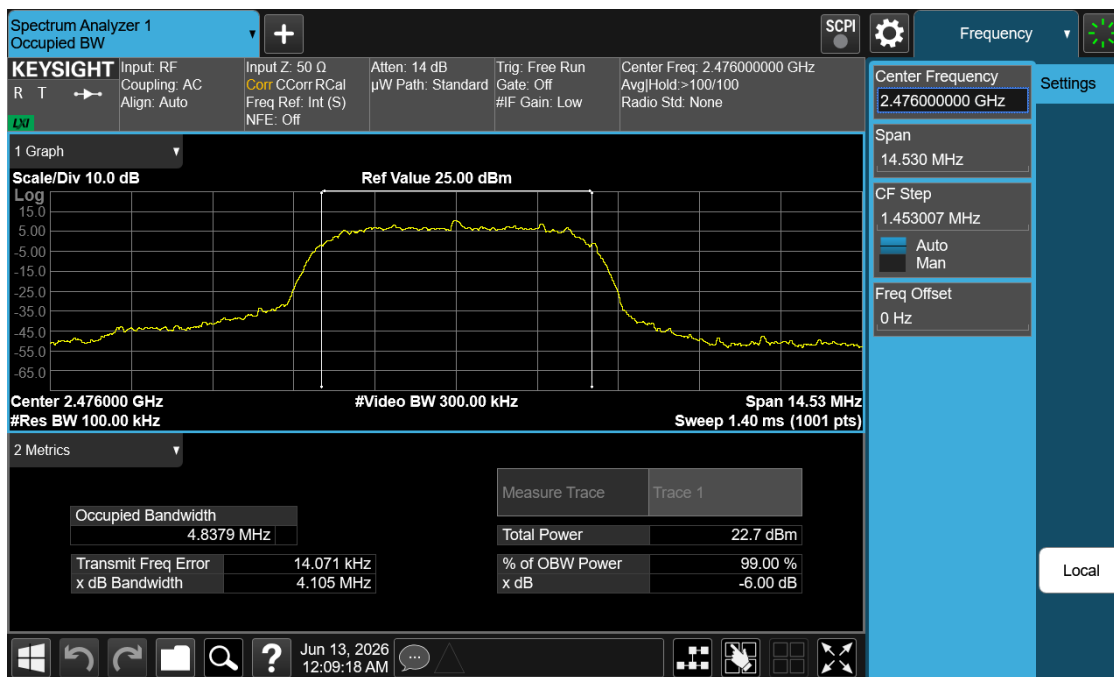
Plot 7-22. 6dB BW Plot (Bluetooth (HDRp8), 8Mbps – Ch. 1)

FCC ID: BCG-A3440 IC: 579C-A3440	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 6/11/2026 - 8/14/2026	EUT Type: Wireless Left Earbud	Approved by: Technical Manager
Test Report S/N: 1C2606090047-03-R2.BCG	 This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.			Page 30 of 76

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Plot 7-23. 6dB BW Plot (Bluetooth (HDRp8), 8Mbps – Ch. 38)



Plot 7-24. 6dB BW Plot (Bluetooth (HDRp8), 8Mbps – Ch. 73)

FCC ID: BCG-A3440 IC: 579C-A3440	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 6/11/2026 - 8/14/2026	EUT Type: Wireless Left Earbud	Approved by: Technical Manager
Test Report S/N: 1C2606090047-03-R2.BCG	 This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.			Page 31 of 76

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7.4 Transmitter Output Power and Max EIRP

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+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 – Subclause 11.9.1.2 PKPM1 Peak Power Method
KDB 558074 D01 v05r02 – Section 8.3.1.3 PKPM1 Peak-reading Power Meter Method
ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 – Subclause 11.9.2.3.2 Method AVGPM-G
KDB 558074 D01 v05r02 – Section 8.3.2.3 Measurement using a Power Meter (PM)

Test Settings

Method PKPM1 (Peak Power Measurement)

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

Method AVGPM-G (Average Power Measurement)

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

Test Setup

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



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

Test Notes

None

FCC ID: BCG-A3440 IC: 579C-A3440	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 6/11/2026 - 8/14/2026	EUT Type: Wireless Left Earbud	Approved by: Technical Manager
Test Report S/N: 1C2606090047-03-R2.BCG	 This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.			Page 32 of 76

7.4.1 FCC Peak Output Power and Max EIRP Measurement – Bluetooth (HDR)

Frequency [MHz]	Mode	Channel No.	Peak Conducted Power		Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	EIRP [dBm]	EIRP Limit [dBm]	EIRP Margin [dB]
			[dBm]	[mW]						
2404	HDR4	1	15.84	38.371	30.00	-14.16	-5.50	10.34	36.02	-25.68
2441	HDR4	38	15.73	37.411	30.00	-14.27	-5.50	10.23	36.02	-25.79
2476	HDR4	73	16.14	41.115	30.00	-13.86	-5.50	10.64	36.02	-25.38
2404	HDRp4	1	15.16	32.810	30.00	-14.84	-5.50	9.66	36.02	-26.36
2441	HDRp4	38	16.65	46.238	30.00	-13.35	-5.50	11.15	36.02	-24.87
2476	HDRp4	73	15.00	31.623	30.00	-15.00	-5.50	9.50	36.02	-26.52
2404	HDR8	1	15.96	39.446	30.00	-14.04	-5.50	10.46	36.02	-25.56
2441	HDR8	38	15.85	38.459	30.00	-14.15	-5.50	10.35	36.02	-25.67
2476	HDR8	73	15.70	37.154	30.00	-14.30	-5.50	10.20	36.02	-25.82
2404	HDRp8	1	15.71	37.239	30.00	-14.29	-5.50	10.21	36.02	-25.81
2441	HDRp8	38	15.66	36.813	30.00	-14.34	-5.50	10.16	36.02	-25.86
2476	HDRp8	73	15.92	39.084	30.00	-14.08	-5.50	10.42	36.02	-25.60

Table 7-4. FCC Peak Conducted Output Power and Max EIRP Measurements (Bluetooth HDR)

7.4.2 ISED Peak Output Power and Max EIRP Measurement – Bluetooth (HDR)

Frequency [MHz]	Mode	Channel No.	Peak Conducted Power		Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	EIRP [dBm]	EIRP Limit [dBm]	EIRP Margin [dB]
			[dBm]	[mW]						
2404	HDR4	1	15.39	34.594	30.00	-14.61	-5.50	9.89	36.02	-26.13
2441	HDR4	38	15.88	38.726	30.00	-14.12	-5.50	10.38	36.02	-25.64
2476	HDR4	73	15.20	33.113	30.00	-14.80	-5.50	9.70	36.02	-26.32
2404	HDRp4	1	12.83	19.187	30.00	-17.17	-5.50	7.33	36.02	-28.69
2441	HDRp4	38	12.27	16.866	30.00	-17.73	-5.50	6.77	36.02	-29.25
2476	HDRp4	73	12.20	16.596	30.00	-17.80	-5.50	6.70	36.02	-29.32
2404	HDR8	1	15.38	34.514	30.00	-14.62	-5.50	9.88	36.02	-26.14
2441	HDR8	38	15.88	38.726	30.00	-14.12	-5.50	10.38	36.02	-25.64
2476	HDR8	73	16.20	41.687	30.00	-13.80	-5.50	10.70	36.02	-25.32
2404	HDRp8	1	11.80	15.136	30.00	-18.20	-5.50	6.30	36.02	-29.72
2441	HDRp8	38	11.72	14.859	30.00	-18.28	-5.50	6.22	36.02	-29.80
2476	HDRp8	73	11.60	14.454	30.00	-18.40	-5.50	6.10	36.02	-29.92

Table 7-5. ISED Peak Conducted Output Power and Max EIRP Measurements (Bluetooth HDR)

FCC ID: BCG-A3440 IC: 579C-A3440	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 6/11/2026 - 8/14/2026	EUT Type: Wireless Left Earbud	Approved by: Technical Manager
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7.4.3 FCC Average Output Power and Max EIRP Measurement – Bluetooth (HDR)

Frequency [MHz]	Mode	Channel No.	Avg Conducted Power		Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	EIRP [dBm]	EIRP Limit [dBm]	EIRP Margin [dB]
			[dBm]	[mW]						
2404	HDR4	1	13.09	20.370	30.00	-16.91	-5.50	7.59	36.02	-28.43
2441	HDR4	38	13.14	20.606	30.00	-16.86	-5.50	7.64	36.02	-28.38
2476	HDR4	73	13.24	21.086	30.00	-16.76	-5.50	7.74	36.02	-28.28
2404	HDRp4	1	12.68	18.535	30.00	-17.32	-5.50	7.18	36.02	-28.84
2441	HDRp4	38	12.72	18.707	30.00	-17.28	-5.50	7.22	36.02	-28.80
2476	HDRp4	73	12.51	17.824	30.00	-17.49	-5.50	7.01	36.02	-29.01
2404	HDR8	1	13.36	21.677	30.00	-16.64	-5.50	7.86	36.02	-28.16
2441	HDR8	38	13.24	21.086	30.00	-16.76	-5.50	7.74	36.02	-28.28
2476	HDR8	73	13.09	20.370	30.00	-16.91	-5.50	7.59	36.02	-28.43
2404	HDRp8	1	12.58	18.113	30.00	-17.42	-5.50	7.08	36.02	-28.94
2441	HDRp8	38	12.69	18.578	30.00	-17.31	-5.50	7.19	36.02	-28.83
2476	HDRp8	73	12.85	19.275	30.00	-17.15	-5.50	7.35	36.02	-28.67

Table 7-6. FCC Average Conducted Output Power and Max EIRP Measurements (Bluetooth HDR)

7.4.4 ISED Average Output Power and Max EIRP Measurement – Bluetooth (HDR)

Frequency [MHz]	Mode	Channel No.	Avg Conducted Power		Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	EIRP [dBm]	EIRP Limit [dBm]	EIRP Margin [dB]
			[dBm]	[mW]						
2404	HDR4	1	12.73	18.750	30.00	-17.27	-5.50	7.23	36.02	-28.79
2441	HDR4	38	12.78	18.967	30.00	-17.22	-5.50	7.28	36.02	-28.74
2476	HDR4	73	12.62	18.281	30.00	-17.38	-5.50	7.12	36.02	-28.90
2404	HDRp4	1	8.90	7.762	30.00	-21.10	-5.50	3.40	36.02	-32.62
2441	HDRp4	38	8.74	7.482	30.00	-21.26	-5.50	3.24	36.02	-32.78
2476	HDRp4	73	8.60	7.244	30.00	-21.40	-5.50	3.10	36.02	-32.92
2404	HDR8	1	12.79	19.011	30.00	-17.21	-5.50	7.29	36.02	-28.73
2441	HDR8	38	12.74	18.793	30.00	-17.26	-5.50	7.24	36.02	-28.78
2476	HDR8	73	12.85	19.275	30.00	-17.15	-5.50	7.35	36.02	-28.67
2404	HDRp8	1	8.67	7.362	30.00	-21.33	-5.50	3.17	36.02	-32.85
2441	HDRp8	38	8.61	7.261	30.00	-21.39	-5.50	3.11	36.02	-32.91
2476	HDRp8	73	8.86	7.691	30.00	-21.14	-5.50	3.36	36.02	-32.66

Table 7-7. ISED Average Conducted Output Power and Max EIRP Measurements (Bluetooth HDR)

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Sample e.i.r.p. Calculation:

At 2404MHz, the average conducted output power was measured to be 13.09 dBm with antenna gain of -5.50 dBi.

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

$$13.09 + -5.50 \text{ dBi} = 7.59 \text{ dBm}$$

FCC ID: BCG-A3440 IC: 579C-A3440	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 6/11/2026 - 8/14/2026	EUT Type: Wireless Left Earbud	Approved by: Technical Manager
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7.5 Power Spectral Density

Test Overview and Limit

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

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

Test Procedure Used

ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 – Subclause 11.10.2 Method PKPSD KDB 558074 D01 v05r02 – Section 8.4 DTS Maximum Power Spectral Density level in the fundamental emission

Test Settings

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

Test Setup

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



Figure 7-4. Test Instrument & Measurement Setup

Test Notes

None

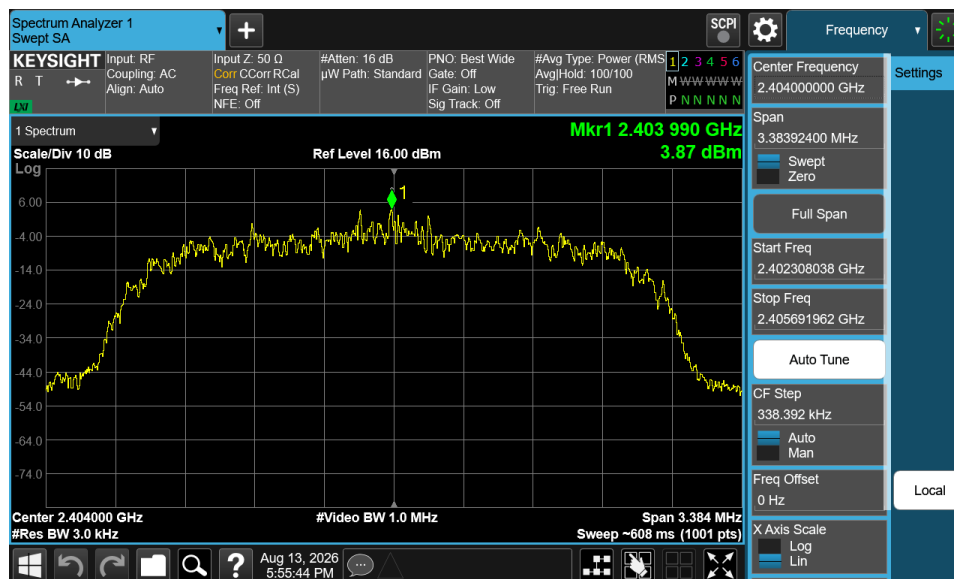
FCC ID: BCG-A3440 IC: 579C-A3440	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 6/11/2026 - 8/14/2026	EUT Type: Wireless Left Earbud	Approved by: Technical Manager
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Frequency [MHz]	Mode	Channel No.	Measured Power Density [dBm/3kHz]	Max Power Density [dBm/3kHz]	Margin [dB]
2404	HDR4	1	3.87	8.0	-4.13
2441	HDR4	38	3.65	8.0	-4.35
2476	HDR4	73	4.10	8.0	-3.90
2404	HDR8	1	5.20	8.0	-2.80
2441	HDR8	38	5.03	8.0	-2.97
2476	HDR8	73	4.90	8.0	-3.11
2404	HDRp4	1	-0.57	8.0	-8.57
2441	HDRp4	38	-0.73	8.0	-8.73
2476	HDRp4	73	-0.93	8.0	-8.93
2404	HDRp8	1	-3.43	8.0	-11.43
2441	HDRp8	38	-3.51	8.0	-11.51
2476	HDRp8	73	-3.18	8.0	-11.18

Table 7-8. Conducted Power Density Measurements

FCC ID: BCG-A3440 IC: 579C-A3440	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 6/11/2026 - 8/14/2026	EUT Type: Wireless Left Earbud	Approved by: Technical Manager
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Plot 7-25. Power Spectral Density Plot (Bluetooth (HDR4), 4Mbps, – Ch. 1)



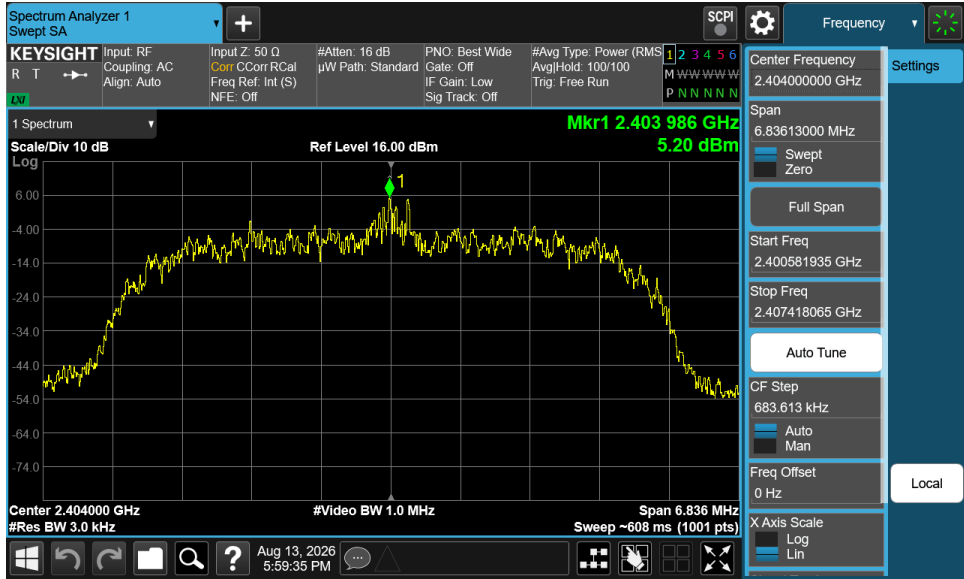
Plot 7-26. Power Spectral Density Plot (Bluetooth (HDR4), 4Mbps, – Ch. 38)

FCC ID: BCG-A3440 IC: 579C-A3440	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 6/11/2026 - 8/14/2026	EUT Type: Wireless Left Earbud	Approved by: Technical Manager
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Plot 7-27. Power Spectral Density Plot (Bluetooth (HDR4), 4Mbps, – Ch. 73)

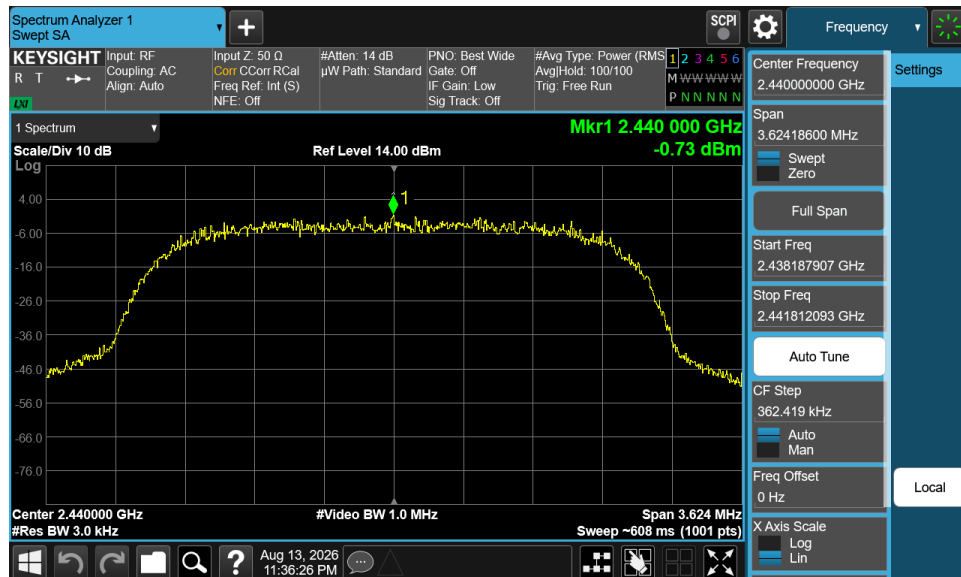


Plot 7-28. Power Spectral Density Plot (Bluetooth (HDR8), 8Mbps, – Ch. 1)

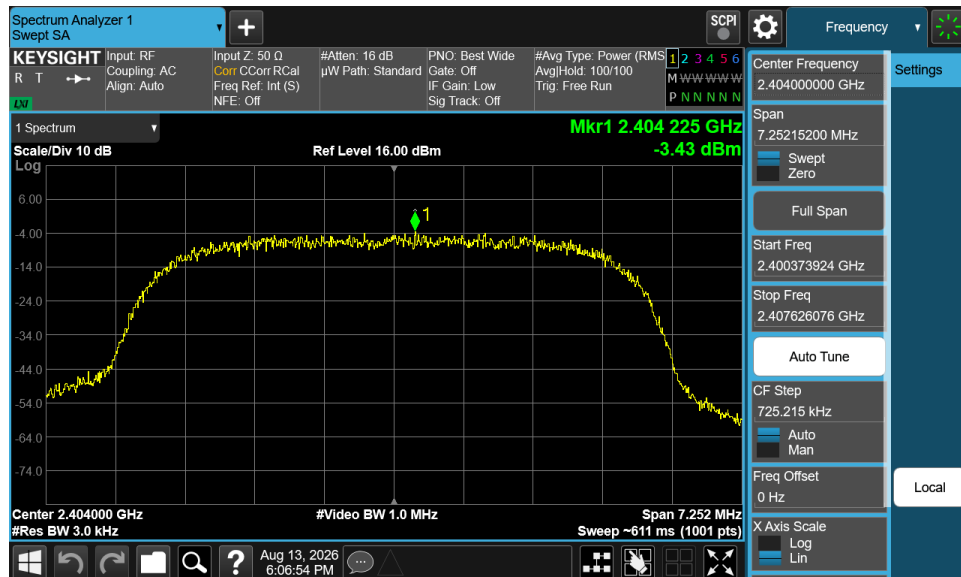
FCC ID: BCG-A3440 IC: 579C-A3440	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 6/11/2026 - 8/14/2026	EUT Type: Wireless Left Earbud	Approved by: Technical Manager
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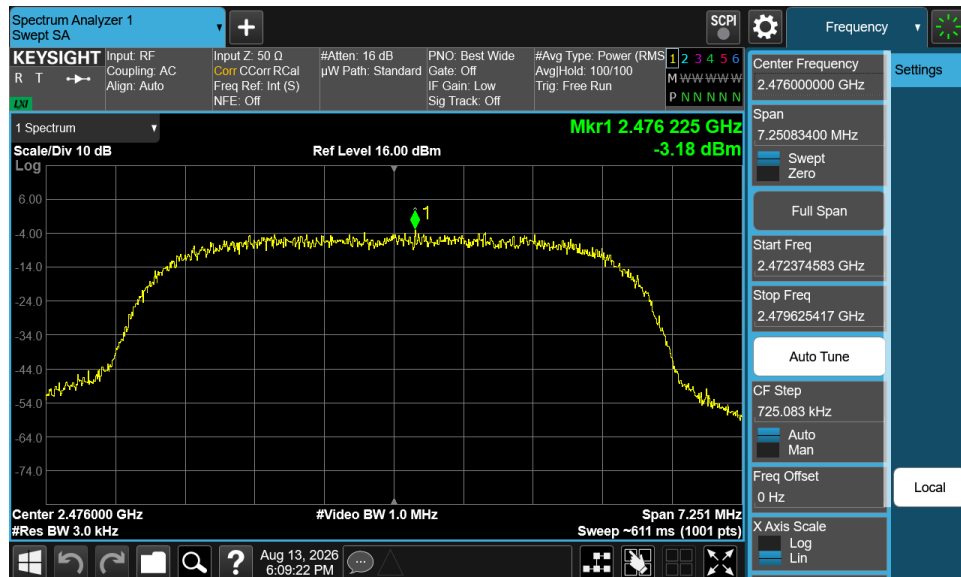
FCC ID: BCG-A3440 IC: 579C-A3440	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 6/11/2026 - 8/14/2026	EUT Type: Wireless Left Earbud	Approved by: Technical Manager
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7.6 Conducted Authorized Band Edge

Test Overview and Limit

For the following out of band conducted spurious emissions plots at the band edge, the EUT was set to transmit at maximum power with the largest packet size available. These settings produced the worst-case emissions.

The limit for out-of-band spurious emissions at the band edge is 20dB below the fundamental emission level, as determined from the in-band power measurement of the DTS channel performed in a 100kHz bandwidth.

Test Procedure Used

ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 – Subclause 11.11.3
KDB 558074 D01 v05r02 – Section 8.7.2

Test Settings

1. Start and stop frequency were set such that the band edge would be placed in the center of the plot
2. Span was set large enough so as to capture all out of band emissions near the band edge
3. RBW = 100kHz
4. VBW $\geq 3 \times$ RBW
5. Detector = Peak
6. Number of sweep points $\geq 2 \times$ Span/RBW
7. Trace mode = max hold
8. Sweep time = auto couple
9. The trace was allowed to stabilize

Test Setup

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



Figure 7-5. Test Instrument & Measurement Setup

Test Notes

None

FCC ID: BCG-A3440 IC: 579C-A3440	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 6/11/2026 - 8/14/2026	EUT Type: Wireless Left Earbud	Approved by: Technical Manager
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