

**ELEMENT WASHINGTON DC LLC**

7185 Oakland Mills Road, Columbia, MD 21046 USA

Tel. 410.290.6652 / Fax 410.290.6654

<http://www.element.com>**MEASUREMENT REPORT**
FCC Part 15.247 Bluetooth (Low Energy)**Applicant Name:**Samsung Electronics Co., Ltd.
129, Samsung-ro,
Yeongtong-gu, Suwon-si
Gyeonggi-do, 16677, Korea**Date of Testing:**

6/3 - 7/8/2025

Test Report Issue Date:

7/15/2025

Test Site/Location:

Element Lab., Columbia, MD, USA

Test Report Serial No.:

1M2505130050-08.A3L

FCC ID:**A3LSMX736B****APPLICANT:****Samsung Electronics Co., Ltd.****Application Type:**

Certification

Model/HVIN:

SM-X736B

EUT Type:

Portable Tablet

Max. RF Output Power:

26.798mW (14.28 dBm) Peak Conducted

Frequency Range:

2402 – 2480MHz

FCC Classification:

Digital Transmission System (DTS)

FCC Rule Part(s):

Part 15 Subpart C (15.247)

Test Procedure(s):

ANSI C63.10:2020

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. 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

CERT #2041.01

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V11.3 5/14/2025

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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 Test Location

Measurements were conducted at the Element laboratory(ies) indicated in Section 1.3 below. All measurement facilities are 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 lab located in Columbia, MD 21046, U.S.A.

- Element Washington DC LLC is an ISO 17025-2017 accredited test facility under the American Association for Laboratory Accreditation (A2LA) with Certificate number 2041.01 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 Washington DC LLC facility is a registered (2451B) test laboratory with the site description on file with ISED.
- Element Washington DC LLC is a Recognized U.S. Certification Assessment Body (CAB # US0110) for ISED Canada as designated by NIST under the U.S. and Canada Mutual Recognition Agreements (MRAs).

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2.0 PRODUCT INFORMATION

2.1 Equipment Description

The Equipment Under Test (EUT) is the **Samsung Portable Tablet FCC ID: A3LSMX736B**. 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.: 18994, 19091, 19042, 18945, 19000, 19117, 19075, 24810, 26617, 24869, 26062, 25445, 26591

2.2 Device Capabilities

This device contains the following capabilities:

850/1900 GSM/GPRS/EDGE, 850/1700/1900 WCDMA/HSPA, Multi-band LTE, Multi-band 5G NR (FR1), 802.11b/g/n/ax WLAN, 802.11a/n/ac/ax UNII (5GHz and 6GHz), Bluetooth (1x, EDR, LE), Digitizer

Ch.	Frequency (MHz)
37	2402
:	:
17	2440
:	:
39	2480

Table 2-1. Frequency / Channel Operations – 125/500kbps & 1Mbps

Ch.	Frequency (MHz)
0	2404
:	:
17	2440
:	:
36	2478

Table 2-2. Frequency / Channel Operations – 2Mbps

2.3 Antenna Description

The following antenna was used for the testing.

Frequency [GHz]	Antenna-1 Gain (dBi)	Antenna-2 Gain (dBi)
2.4	-5.3	-5.2

Table 2-3. Antenna Peak Gain

Note: This device is capable of operating in hopping and non-hopping mode. The EUT can hop between 79 different channels in the 2400 – 2483.5MHz band.

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2.4 Test Configuration

The EUT was tested per the guidance of ANSI C63.10:2020. 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.

The emissions below 1GHz and above 18GHz were tested with the highest transmitting power channel and the worst case configuration.

For AC line conducted and radiated test below 1GHz, following configuration were investigated and EUT powered by AC/DC was the worst case.

- EUT powered by AC/DC adaptor via USB cable with wire charger

2.5 Software and Firmware

The test was conducted with software/firmware version X736BXXU0AUF8 installed on the EUT.

2.6 EMI Suppression Device(s)/Modifications

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

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3.0 DESCRIPTION OF TESTS

3.1 Evaluation Procedure

The measurement procedures described in the American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices (ANSI C63.10:2020) and the guidance provided in KDB 558074 D01 v05r02 were used in the measurement of the EUT.

Deviation from measurement procedure.....None

3.2 AC Line Conducted Emissions

The line-conducted facility is located inside a 10'x16'x9' shielded enclosure. The shielded enclosure is manufactured by ETS Lindgren RF Enclosures. 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 ETS Lindgren Model LPRX-4X30 (100dB Attenuation, 14kHz-18GHz) and the two EMI/RFI filters are ETS Lindgren Model LRW-2030-S1 (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 those 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. The EMI Receiver mode of the Agilent MXE was used to perform AC line conducted emissions testing.

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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.

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.

All radiated measurements are performed in a chamber that meets the site requirements per ANSI C63.4-2014. Additionally, radiated emissions below 30MHz are also validated on an Open Area Test Site to assert correlation with the chamber measurements per the requirements of KDB 414788 D01 v01r01.

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 C63.10:2020. 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	1.13
Line Conducted Disturbance	3.09
Radiated Disturbance (<1GHz)	4.98
Radiated Disturbance (>1GHz)	5.07
Radiated Disturbance (>18GHz)	5.09

Table 5-1. Measurement Uncertainty Budget

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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 to the requirements of ANSI C63.5-2017.

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
-	WL25-1	Conducted Cable Set (25GHz)	2/25/2025	Annual	2/25/2026	WL25-1
-	WL25-2	Conducted Cable Set (25GHz)	2/25/2025	Annual	2/25/2026	WL25-2
-	WL40-1	Conducted Cable Set (40GHz)	2/25/2025	Annual	2/25/2026	WL40-1
-	MD 1M 18-40	EMC Cable and Switch System	2/25/2025	Annual	2/25/2026	MD 1M 18-40
-	AP2-001	EMC Cable and Switch System	2/25/2025	Annual	2/25/2026	AP2-001
-	ETS-001	EMC Cable and Switch System	2/25/2025	Annual	2/25/2026	ETS-001
Agilent	N9038A	MXE EMI Receiver	9/16/2024	Annual	9/16/2025	MY51210133
Agilent	N9020A	MXA Signal Analyzer	5/7/2025	Annual	5/7/2026	US46470561
Agilent	N9030A	PXA Signal Analyzer (44GHz)	10/16/2024	Annual	10/16/2025	MY49430494
Anritsu	MA24408A	Microwave Peak Power Sensor	10/2/2024	Annual	10/2/2025	11675
EMCO	3115	Horn Antenna (1-18GHz)	9/6/2024	Biennial	9/6/2025	9704-5182
EMCO	3116	Horn Antenna (18-40GHz)	7/5/2023	Biennial	7/5/2025	9203-2178
ETS-Lindgren	3116C	Horn Antenna (18-40GHz)	4/22/2025	Biennial	4/22/2027	218893
Keysight Technologies	N9020A	MXA Signal Analyzer	2/7/2025	Annual	2/7/2026	MY53421544
Keysight Technologies	N9030A	PXA Signal Analyzer	8/26/2024	Annual	8/26/2025	MY54490576
Keysight Technologies	N9030B	PXA Signal Analyzer	9/19/2024	Annual	9/19/2025	MY57141001
Pasternack	NMLC-2	Line Conducted Emissions Cable	3/25/2025	Annual	3/25/2026	NMLC-2
Rohde & Schwarz	TC-TA18	Vivaldi Antenna	4/15/2024	Biennial	4/15/2026	101058
Rohde & Schwarz	ESU26	EMI Test Receiver (26.5GHz)	10/16/2024	Annual	10/16/2025	100342
Rohde & Schwarz	ESU40	EMI Test Receiver (40GHz)	11/25/2024	Annual	11/25/2025	100348
Rohde & Schwarz	ESW44	EMI Test Receiver (44GHz)	3/25/2025	Annual	3/25/2026	101716
Sunol	JB6	Bi-Log Antenna (20M-6GHz)	3/24/2025	Biennial	3/25/2027	A082816
Sunol	JB5	Bi-Log Antenna (20M-5GHz)	9/11/2024	Biennial	9/11/2026	A051107

Table 6-1. Test Equipment Calibration Table

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.

Equipment listed with "N/A" under calibration information was not used to make calibrated measurements.

Component	Serial Number
MegaPhase Cable TM26-S1S1-36	18160103 003
Pasternack 6dB Attenuator PE7005-6	N/A

Table 6-2. WL25-1 Conducted Cable Set Components

Component	Serial Number
MiniCircuits Cable CBL-2FT-SMSM+	77743
MCL 6dB Attenuator BW-S6W2+	1314

Table 6-3. WL25-2 Conducted Cable Set Components

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Component	Serial Number
MegaPhase Cable TM40K1K1-36	18160102 001
MCL 10dB Attenuator BW-K10 2W44+	1902

Table 6-4. WL40-1 Conducted Cable Set Components

Component	Serial Number
Pasternack Cable RG214/U	111815
Sucoflex Cable 106A	246420-001
MegaPhase (CAGE 1GVT4) Cable GR18-N5N5-24	14042714 001
MegaPhase (CAGE 1GVT4) Cable NC29-N1N1-324	20502201 001
Rohde & Schwarz SF Unit	102134
Minicircuits Cable CBL=0.5M-NMNM+	15440

Table 6-5. ETS-001 EMC Cable and Switch System Components

Component	Serial Number
MiniCircuits Cable CBL-0.5M-SMNM+	47261
Micro-Coax Utiflex Cable UFB311A-Q-3346-50U50U MFR 64639	231978-001
Micro-Coax Utiflex Cable UFB311A-1-0629-50U50U MFR 64639	231986-002
MegaPhase Cable NC29-N1N1-324	19046401 001
MegaPhase Flex Cable 10511-1	15044701-006
Micro-Coas Utiflex Cable UFB311A-Q-3446-50U50U MFR 64639	231978-002
Micro-Coas Utiflex Cable UFB311A-1-0629-50U50U MFR 64639	231986-001
Micro-Coas Utiflex Cable UFB142A-0-0659-50U50U MFR 64639	232069-001
Rohde & Schwarz SF Unit	102138

Table 6-6. AP2-001 EMC Cable and Switch System Components

Component	Serial Number
MegaPhase Cable TM40-K1K1-30	20233002-004
UTIPLEX Cable	64639 232063-001
Rohde & Schwarz Pre-amp RS-PR1840 18G-40G	9037.7670.02

Table 6-7. MD 1M 18-40 EMC Cable and Switch System Components

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7.0 TEST RESULTS

7.1 Summary

Company Name: Samsung Electronics Co., Ltd.
 FCC ID: A3LSMX736B
 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
15.247(b)(3)	RSS-247 [5.4(4)]	Transmitter Output Power	< 1 Watt		PASS	Sections 7.3
15.247(e)	RSS-247 [5.2]	Transmitter Power Spectral Density	< 8dBm / 3kHz Band		PASS	Section 7.4
15.247(d)	RSS-247 [5.5]	Band Edge / Out-of-Band Emissions	≥ 20dBc		PASS	Sections 7.5, 7.6
15.205 15.209	RSS-Gen [8.9]	General Field Strength Limits (Restricted Bands and Radiated Emission Limits)	Emissions in restricted bands must meet the radiated limits detailed in 15.209 (RSS-Gen [8.9])	RADIATED	PASS	Sections 7.7, 7.8
15.207	RSS-Gen [8.8]	AC Conducted Emissions 150kHz – 30MHz	< FCC 15.207 limits (RSS-Gen[8.8])	LINE CONDUCTED	PASS	Section 7.9

Table 7-1. Summary of Test Results

Notes:

1. All modes of operation were investigated. The test results shown in the following sections represent the worst case emissions.
2. The analyzer plots shown in this section were all taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables and attenuators used as part of the system to connect the EUT to the analyzer at all frequencies of interest.
3. All antenna port conducted emissions testing was performed on a test bench with the antenna port of the EUT connected to the spectrum analyzer through calibrated cables and attenuators.
4. For conducted spurious emissions, automated test software was used to measure emissions and capture the corresponding plots necessary to show compliance. The measurement software utilized is ELEMENT “Bluetooth LE Automation,” Version 3.6.
5. For radiated band edge, 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 1.3.1.

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7.2 6dB Bandwidth Measurement – Bluetooth (LE)

§15.247(a.2); RSS-247 [5.2]

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 – Section 11.8.2 Option 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

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

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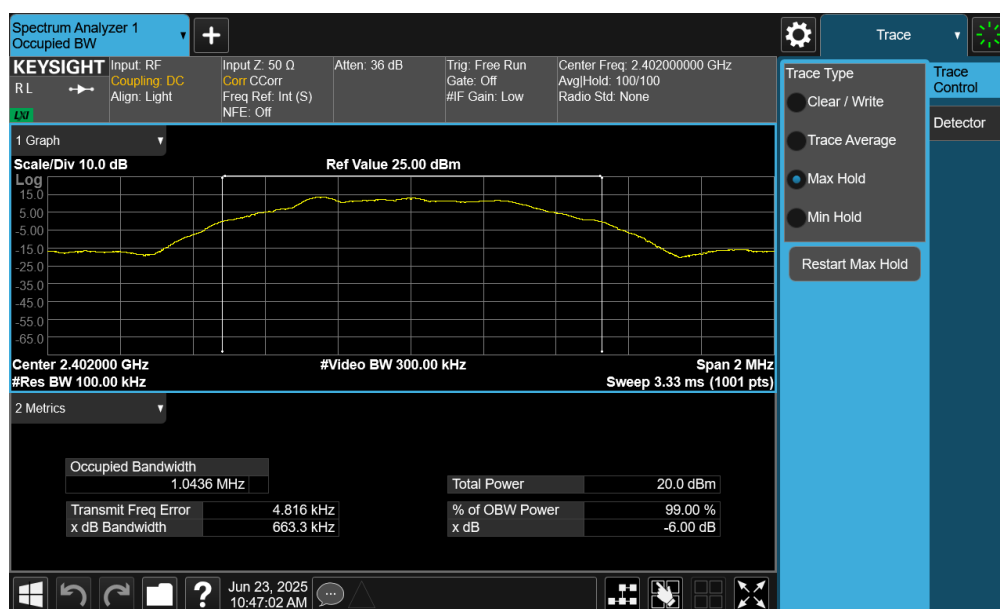
Frequency [MHz]	Data Rate	Channel No.	Bluetooth Mode	Measured Bandwidth [kHz]	Minimum Bandwidth [kHz]	Pass / Fail
2402	125 kbps	37	LE	686.6	500	Pass
2440	125 kbps	17	LE	687.5	500	Pass
2480	125 kbps	39	LE	685.0	500	Pass
2402	500 kbps	37	LE	663.3	500	Pass
2440	500 kbps	17	LE	656.4	500	Pass
2480	500 kbps	39	LE	661.1	500	Pass
2402	1 Mbps	37	LE	677.8	500	Pass
2440	1 Mbps	17	LE	709.1	500	Pass
2480	1 Mbps	39	LE	702.6	500	Pass
2404	2 Mbps	0	LE	1158.8	500	Pass
2440	2 Mbps	17	LE	1171.9	500	Pass
2478	2 Mbps	36	LE	1170.4	500	Pass

Table 7-2. Conducted Bandwidth Measurements – ANT1

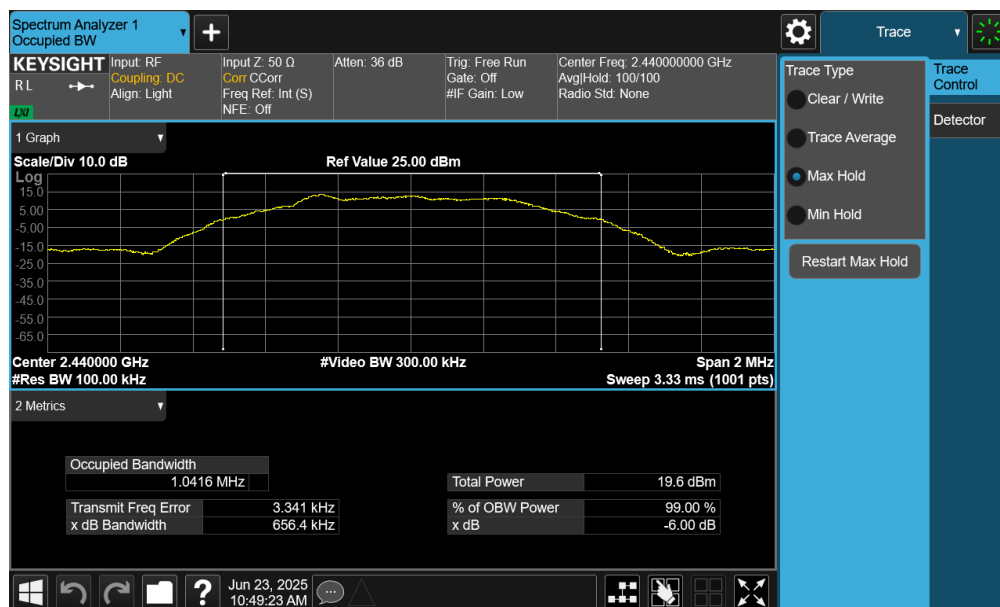
FCC ID: A3LSMX736B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2505130050-08.A3L	Test Dates: 6/3 - 7/8/2025	EUT Type: Portable Tablet	Page 14 of 90



FCC ID: A3LSMX736B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2505130050-08.A3L	Test Dates: 6/3 - 7/8/2025	EUT Type: Portable Tablet	Page 15 of 90



FCC ID: A3LSMX736B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2505130050-08.A3L	Test Dates: 6/3 - 7/8/2025	EUT Type: Portable Tablet	Page 16 of 90

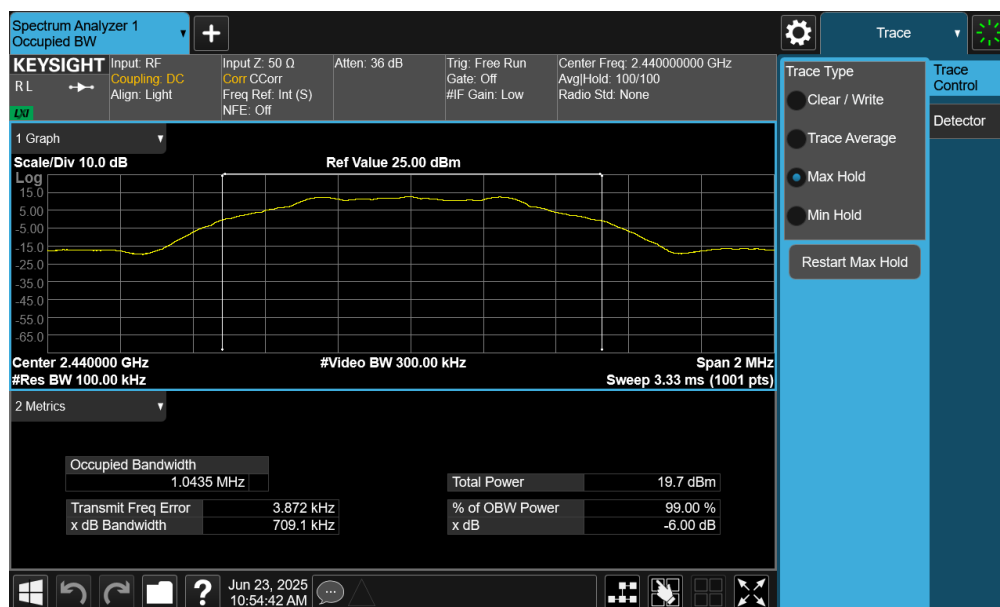
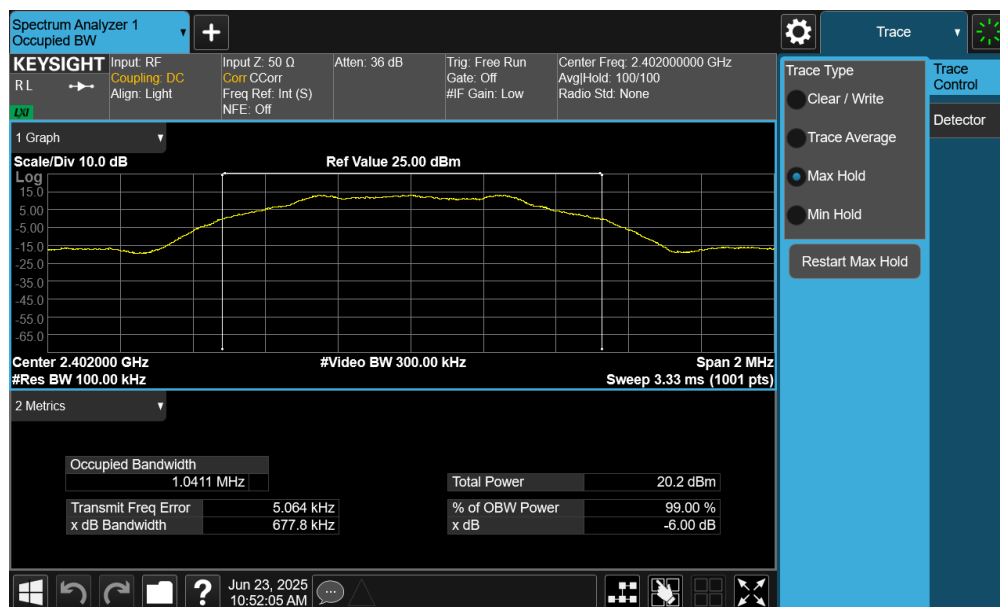


Plot 7-5. 6dB Bandwidth Plot (Bluetooth (LE), 500kbps – Ch. 17) – Ant 1

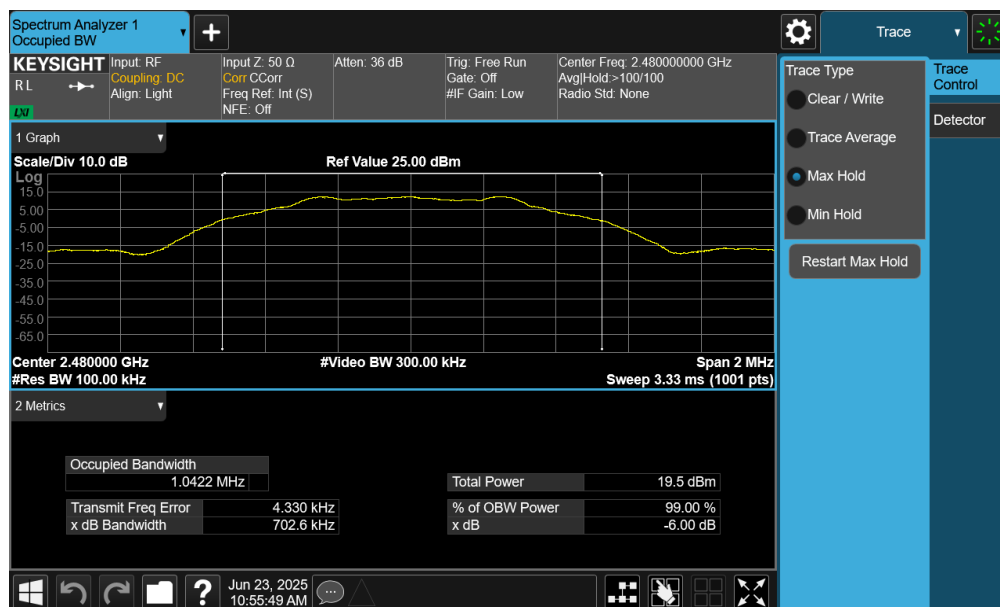


Plot 7-6. 6dB Bandwidth Plot (Bluetooth (LE), 500kbps – Ch. 39) – Ant 1

FCC ID: A3LSMX736B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2505130050-08.A3L	Test Dates: 6/3 - 7/8/2025	EUT Type: Portable Tablet	Page 17 of 90



FCC ID: A3LSMX736B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2505130050-08.A3L	Test Dates: 6/3 - 7/8/2025	EUT Type: Portable Tablet	Page 18 of 90



Plot 7-9. 6dB Bandwidth Plot (Bluetooth (LE), 1Mbps – Ch. 39) – Ant 1



Plot 7-10. 6dB Bandwidth Plot (Bluetooth (LE), 2Mbps – Ch. 0) – Ant 1

FCC ID: A3LSMX736B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2505130050-08.A3L	Test Dates: 6/3 - 7/8/2025	EUT Type: Portable Tablet	Page 19 of 90

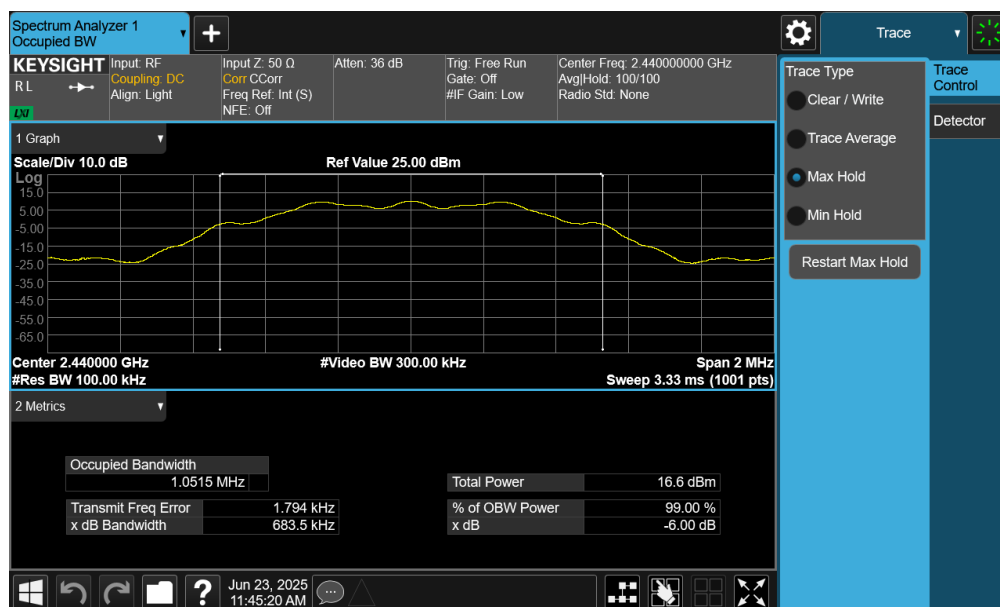


FCC ID: A3LSMX736B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2505130050-08.A3L	Test Dates: 6/3 - 7/8/2025	EUT Type: Portable Tablet	Page 20 of 90

Frequency [MHz]	Data Rate	Channel No.	Bluetooth Mode	Measured Bandwidth [kHz]	Minimum Bandwidth [kHz]	Pass / Fail
2402	125 kbps	37	LE	686.3	500	Pass
2440	125 kbps	17	LE	683.5	500	Pass
2480	125 kbps	39	LE	678.6	500	Pass
2402	500 kbps	37	LE	663.7	500	Pass
2440	500 kbps	17	LE	666.1	500	Pass
2480	500 kbps	39	LE	664.3	500	Pass
2402	1 Mbps	37	LE	705.5	500	Pass
2440	1 Mbps	17	LE	707.3	500	Pass
2480	1 Mbps	39	LE	704.8	500	Pass
2404	2 Mbps	0	LE	1172.5	500	Pass
2440	2 Mbps	17	LE	1172.9	500	Pass
2478	2 Mbps	36	LE	1172.9	500	Pass

Table 7-3. Conducted Bandwidth Measurements – Ant 2

FCC ID: A3LSMX736B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2505130050-08.A3L	Test Dates: 6/3 - 7/8/2025	EUT Type: Portable Tablet	Page 21 of 90



FCC ID: A3LSMX736B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2505130050-08.A3L	Test Dates: 6/3 - 7/8/2025	EUT Type: Portable Tablet	Page 22 of 90

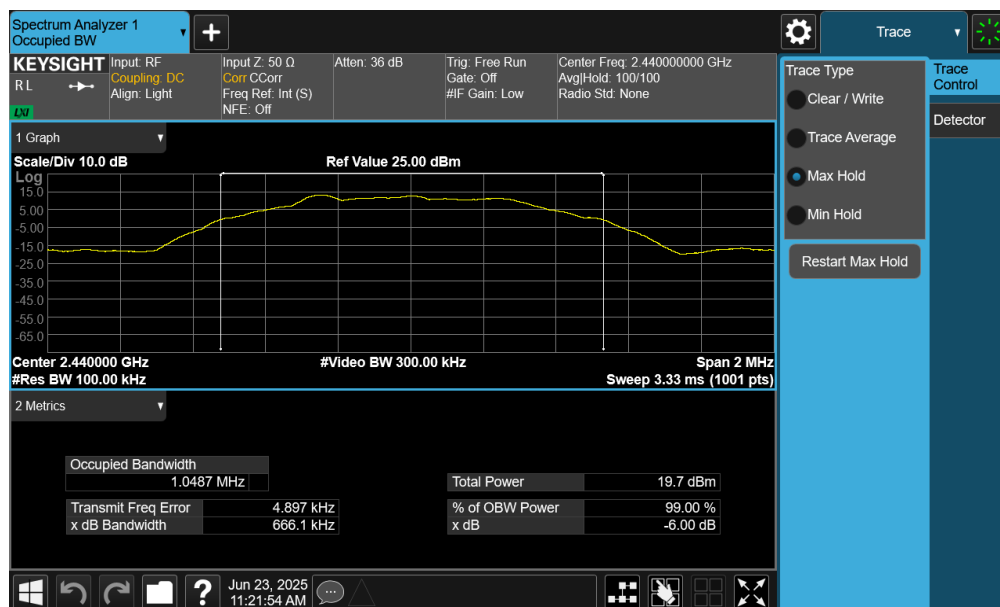


Plot 7-15. 6dB Bandwidth Plot (Bluetooth (LE), 125kbps – Ch. 39) – Ant 2

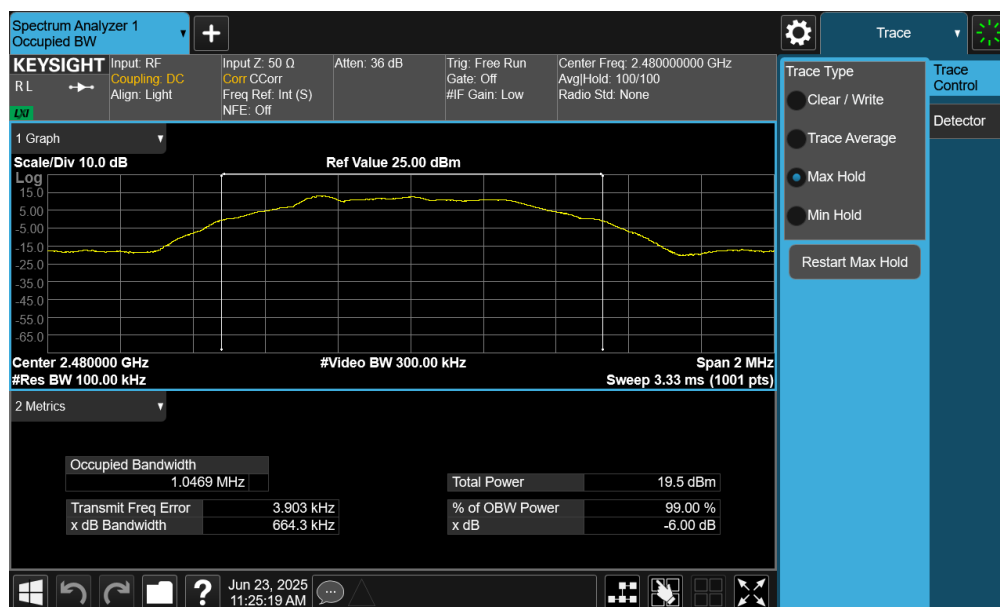


Plot 7-16. 6dB Bandwidth Plot (Bluetooth (LE), 500kbps – Ch. 37) – Ant 2

FCC ID: A3LSMX736B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2505130050-08.A3L	Test Dates: 6/3 - 7/8/2025	EUT Type: Portable Tablet	Page 23 of 90



Plot 7-17. 6dB Bandwidth Plot (Bluetooth (LE), 500kbps – Ch. 17) – Ant 2

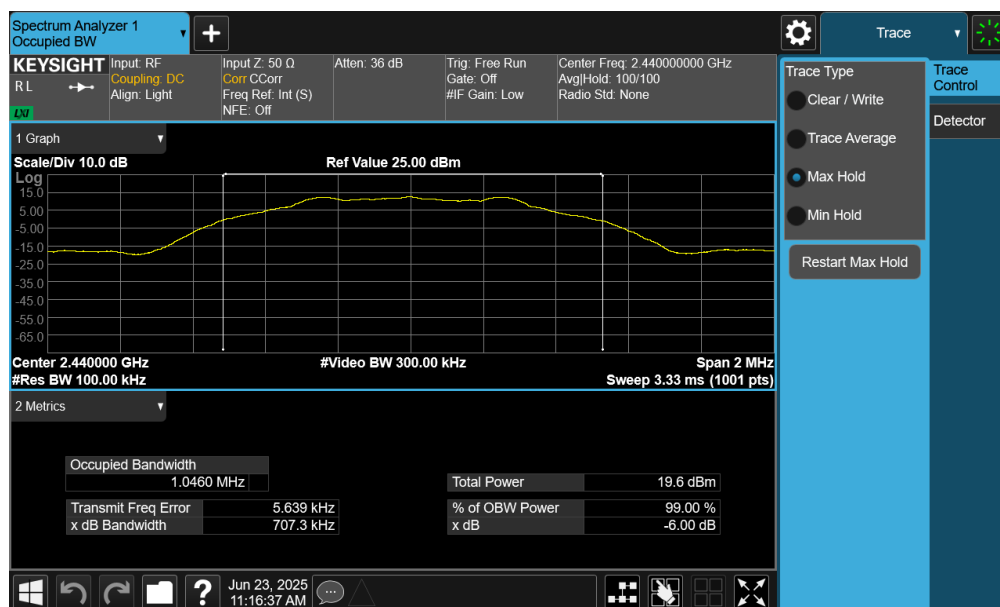


Plot 7-18. 6dB Bandwidth Plot (Bluetooth (LE), 500kbps – Ch. 39) – Ant 2

FCC ID: A3LSMX736B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2505130050-08.A3L	Test Dates: 6/3 - 7/8/2025	EUT Type: Portable Tablet	Page 24 of 90

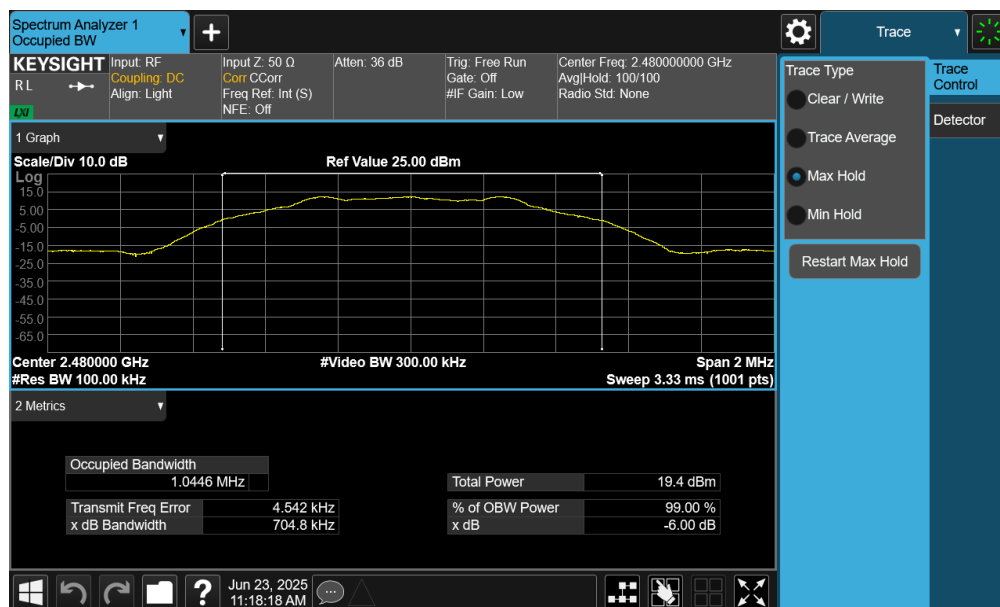


Plot 7-19. 6dB Bandwidth Plot (Bluetooth (LE), 1Mbps – Ch. 37) – Ant 2



Plot 7-20. 6dB Bandwidth Plot (Bluetooth (LE), 1Mbps – Ch. 17) – Ant 2

FCC ID: A3LSMX736B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2505130050-08.A3L	Test Dates: 6/3 - 7/8/2025	EUT Type: Portable Tablet	Page 25 of 90



FCC ID: A3LSMX736B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2505130050-08.A3L	Test Dates: 6/3 - 7/8/2025	EUT Type: Portable Tablet	Page 26 of 90



FCC ID: A3LSMX736B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2505130050-08.A3L	Test Dates: 6/3 - 7/8/2025	EUT Type: Portable Tablet	Page 27 of 90

7.3 Output Power Measurement – Bluetooth (LE)

§15.247(b.3); RSS-247 [5.4(4)]

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 permissible conducted output power is 1 Watt.

Test Procedure Used

ANSI C63.10:2020 – Section 11.9.1.1

Test Settings

1. RBW = 3MHz
2. VBW = 50MHz
3. Span $\geq 3 \times$ RBW
4. Sweep = auto couple
5. Detector = Peak
6. Trace mode = max hold
7. The trace was allowed to stabilize

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

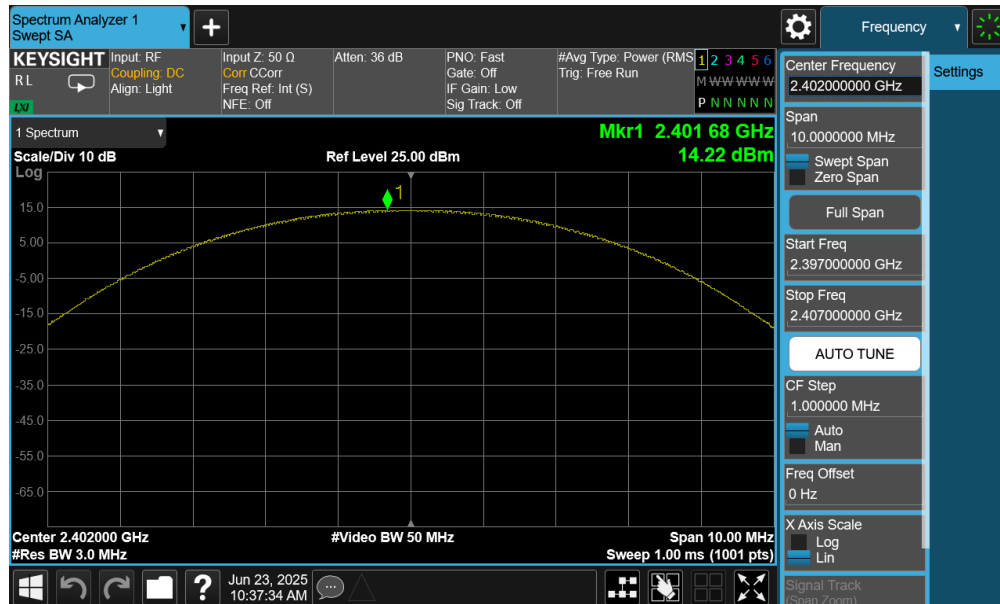
None

FCC ID: A3LSMX736B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2505130050-08.A3L	Test Dates: 6/3 - 7/8/2025	EUT Type: Portable Tablet	Page 28 of 90

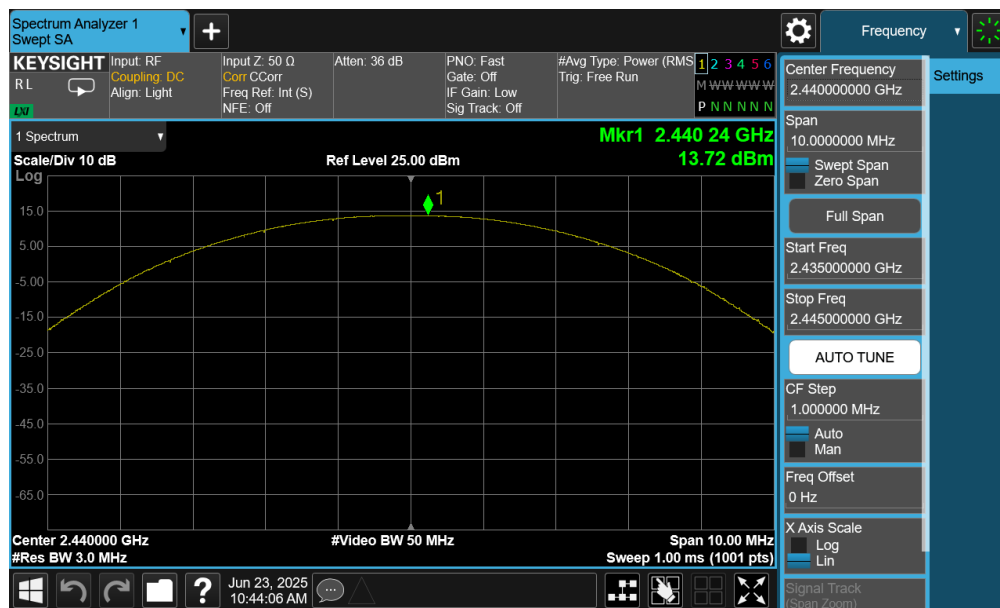
Frequency [MHz]	Data Rate [Mbps]	Channel No.	Bluetooth Mode	Peak Conducted Power	
				[dBm]	[mW]
2402	125 kbps	37	LE	14.22	26.436
2440	125 kbps	17	LE	13.72	23.567
2480	125 kbps	39	LE	13.46	22.167
2402	500 kbps	37	LE	14.28	26.798
2440	500 kbps	17	LE	13.64	23.142
2480	500 kbps	39	LE	13.44	22.100
2402	1 Mbps	37	LE	14.13	25.864
2440	1 Mbps	17	LE	13.42	21.999
2480	1 Mbps	39	LE	13.26	21.203
2404	2 Mbps	0	LE	13.64	23.121
2440	2 Mbps	17	LE	13.26	21.159
2478	2 Mbps	36	LE	13.41	21.913

Table 7-4. Conducted Output Power Measurements (Bluetooth (LE)) – ANT1

FCC ID: A3LSMX736B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2505130050-08.A3L	Test Dates: 6/3 - 7/8/2025	EUT Type: Portable Tablet	Page 29 of 90

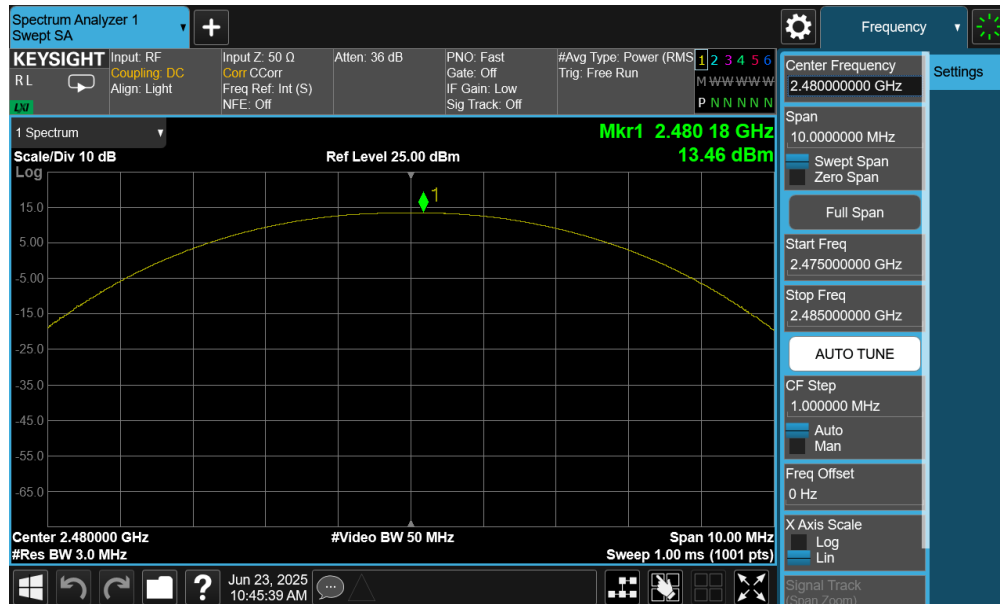


Plot 7-25. Peak Power Plot (Bluetooth (LE), 125kbps – Ch. 37) – Ant 1

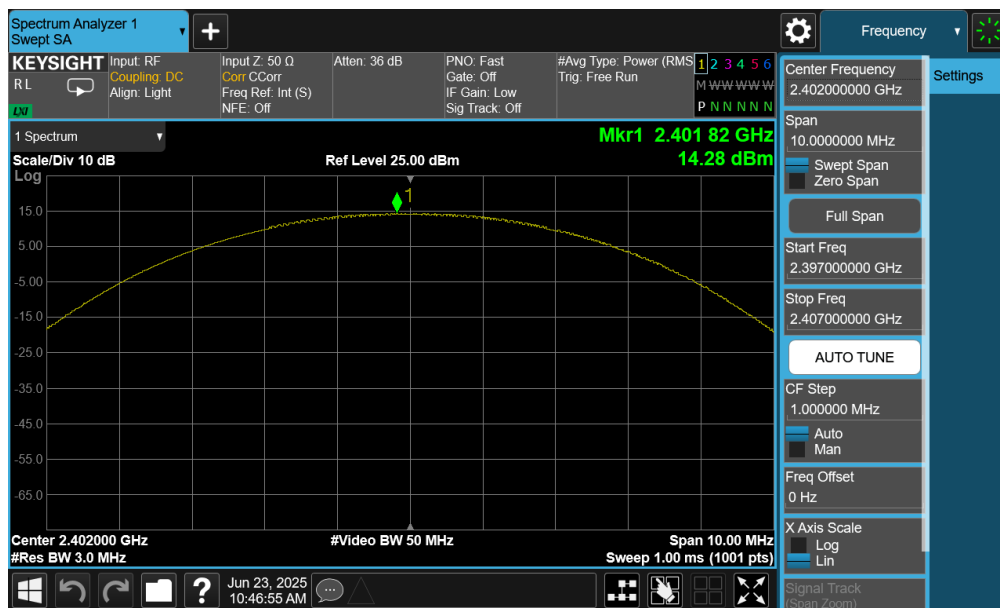


Plot 7-26. Peak Power Plot (Bluetooth (LE), 125kbps – Ch. 17) – Ant 1

FCC ID: A3LSMX736B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2505130050-08.A3L	Test Dates: 6/3 - 7/8/2025	EUT Type: Portable Tablet	Page 30 of 90



Plot 7-27. Peak Power Plot (Bluetooth (LE), 125kbps – Ch. 39) – Ant 1

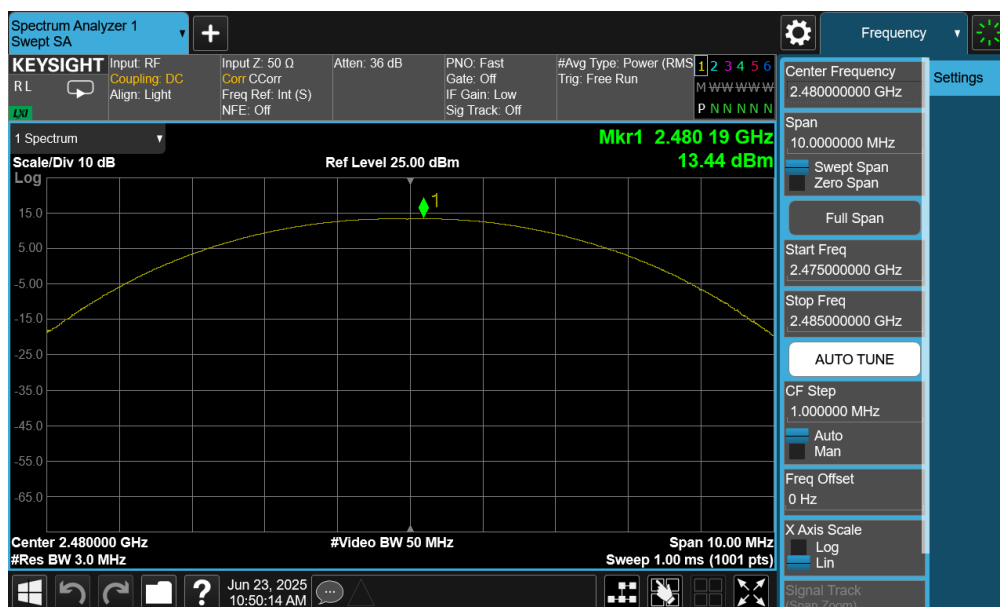


Plot 7-28. Peak Power Plot (Bluetooth (LE), 500kbps – Ch. 37) – Ant 1

FCC ID: A3LSMX736B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2505130050-08.A3L	Test Dates: 6/3 - 7/8/2025	EUT Type: Portable Tablet	Page 31 of 90

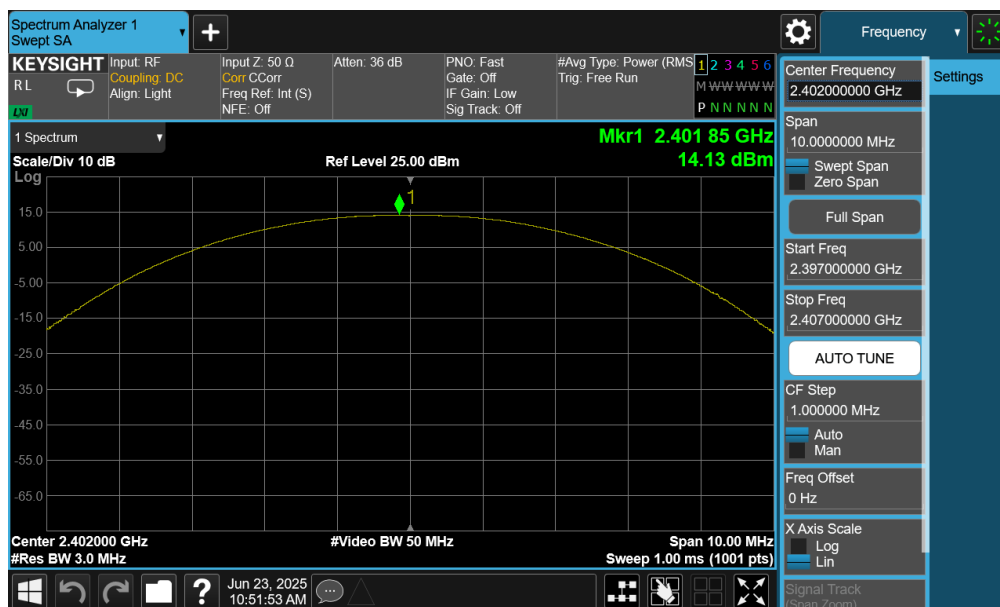


Plot 7-29. Peak Power Plot (Bluetooth (LE), 500kbps – Ch. 17) – Ant 1



Plot 7-30. Peak Power Plot (Bluetooth (LE), 500kbps – Ch. 39) – Ant 1

FCC ID: A3LSMX736B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2505130050-08.A3L	Test Dates: 6/3 - 7/8/2025	EUT Type: Portable Tablet	Page 32 of 90

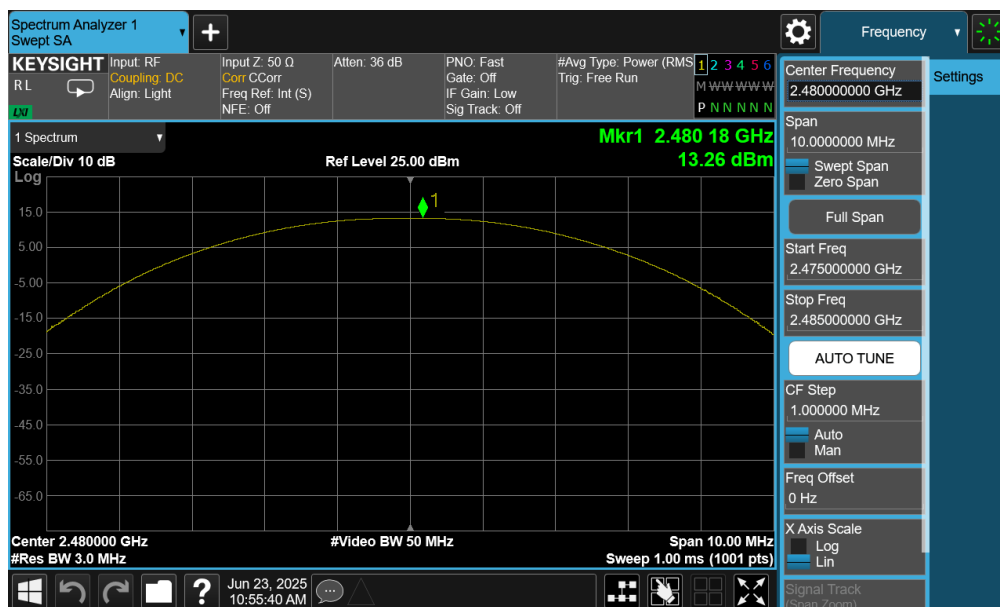


Plot 7-31. Peak Power Plot (Bluetooth (LE), 1Mbps – Ch. 37) – Ant 1

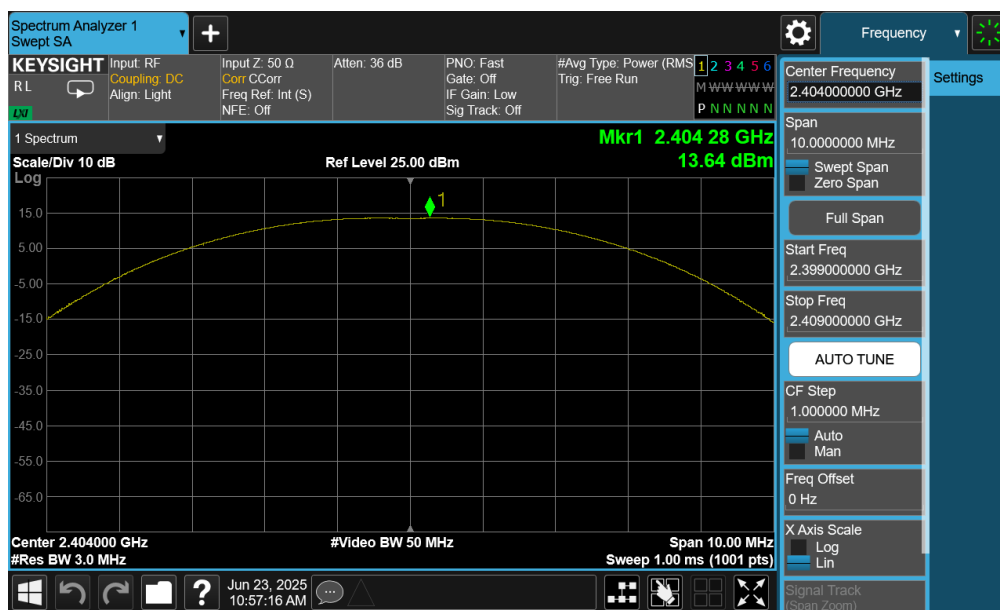


Plot 7-32. Peak Power Plot (Bluetooth (LE), 1Mbps – Ch. 17) – Ant 1

FCC ID: A3LSMX736B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2505130050-08.A3L	Test Dates: 6/3 - 7/8/2025	EUT Type: Portable Tablet	Page 33 of 90

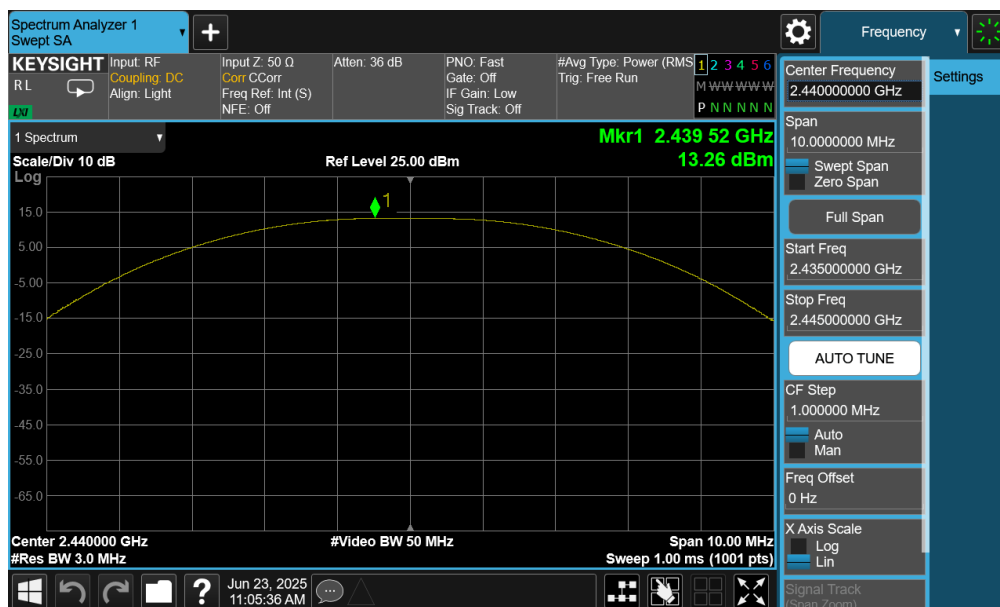


Plot 7-33. Peak Power Plot (Bluetooth (LE), 1Mbps – Ch. 39) – Ant 1

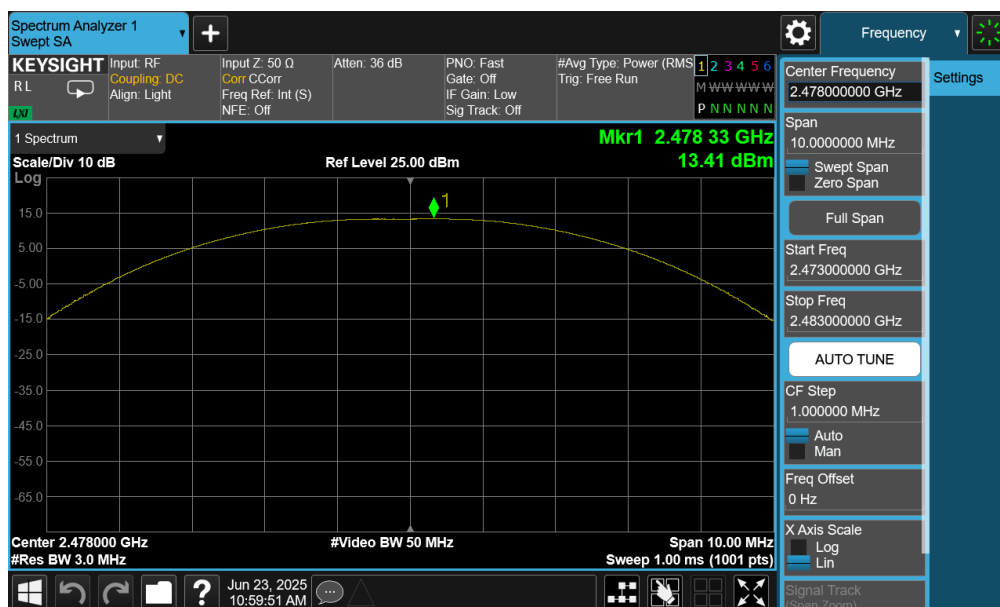


Plot 7-34. Peak Power Plot (Bluetooth (LE), 2Mbps – Ch. 0) – Ant 1

FCC ID: A3LSMX736B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2505130050-08.A3L	Test Dates: 6/3 - 7/8/2025	EUT Type: Portable Tablet	Page 34 of 90



Plot 7-35. Peak Power Plot (Bluetooth (LE), 2Mbps – Ch. 17) – Ant 1



Plot 7-36. Peak Power Plot (Bluetooth (LE), 2Mbps – Ch. 36) – Ant 1

FCC ID: A3LSMX736B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2505130050-08.A3L	Test Dates: 6/3 - 7/8/2025	EUT Type: Portable Tablet	Page 35 of 90

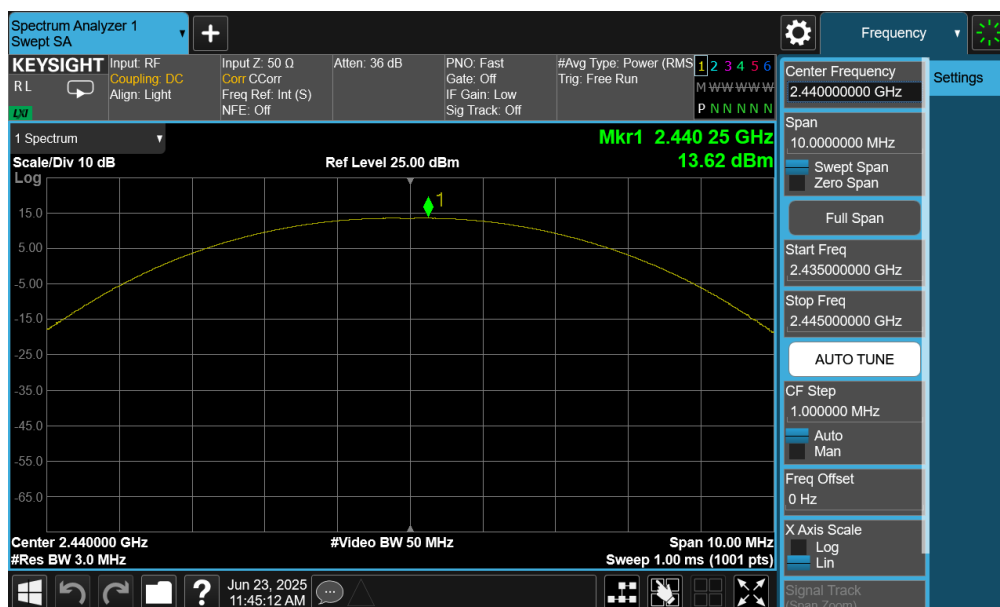
Frequency [MHz]	Data Rate [Mbps]	Channel No.	Bluetooth Mode	Peak Conducted Power	
				[dBm]	[mW]
2402	125 kbps	37	LE	13.48	22.295
2440	125 kbps	17	LE	13.62	22.999
2480	125 kbps	39	LE	13.43	22.034
2402	500 kbps	37	LE	13.58	22.798
2440	500 kbps	17	LE	13.42	21.979
2480	500 kbps	39	LE	13.30	21.370
2402	1 Mbps	37	LE	13.60	22.903
2440	1 Mbps	17	LE	13.36	21.667
2480	1 Mbps	39	LE	13.24	21.106
2404	2 Mbps	0	LE	13.07	20.253
2440	2 Mbps	17	LE	13.70	23.464
2478	2 Mbps	36	LE	12.85	19.266

Table 7-5. Conducted Output Power Measurements (Bluetooth (LE)) – Ant 2

FCC ID: A3LSMX736B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2505130050-08.A3L	Test Dates: 6/3 - 7/8/2025	EUT Type: Portable Tablet	Page 36 of 90



Plot 7-37. Peak Power Plot (Bluetooth (LE), 125kbps – Ch. 37) – Ant 2

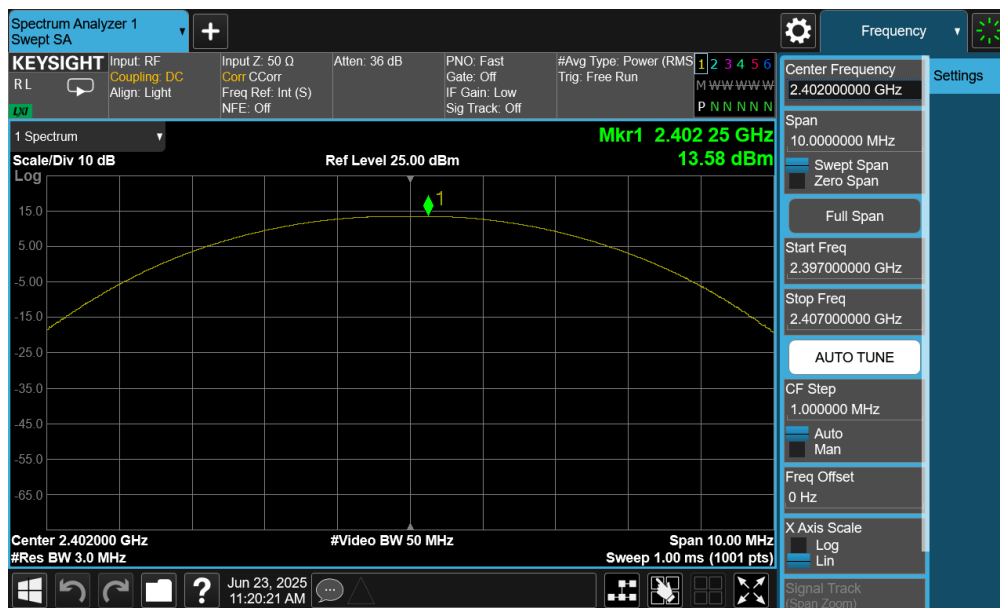


Plot 7-38. Peak Power Plot (Bluetooth (LE), 125kbps – Ch. 17) – Ant 2

FCC ID: A3LSMX736B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2505130050-08.A3L	Test Dates: 6/3 - 7/8/2025	EUT Type: Portable Tablet	Page 37 of 90

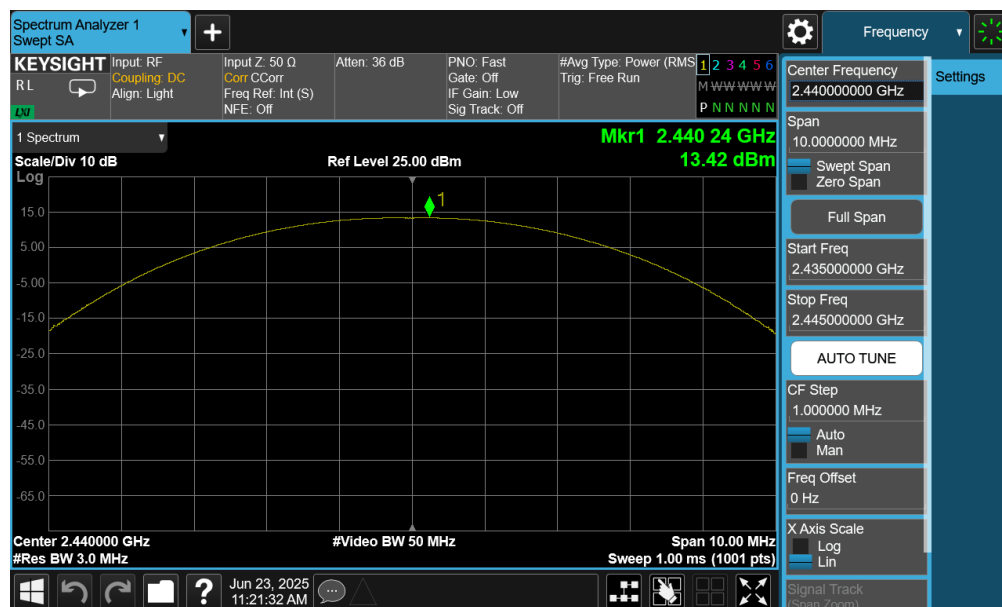


Plot 7-39. Peak Power Plot (Bluetooth (LE), 125kbps – Ch. 39) – Ant 2

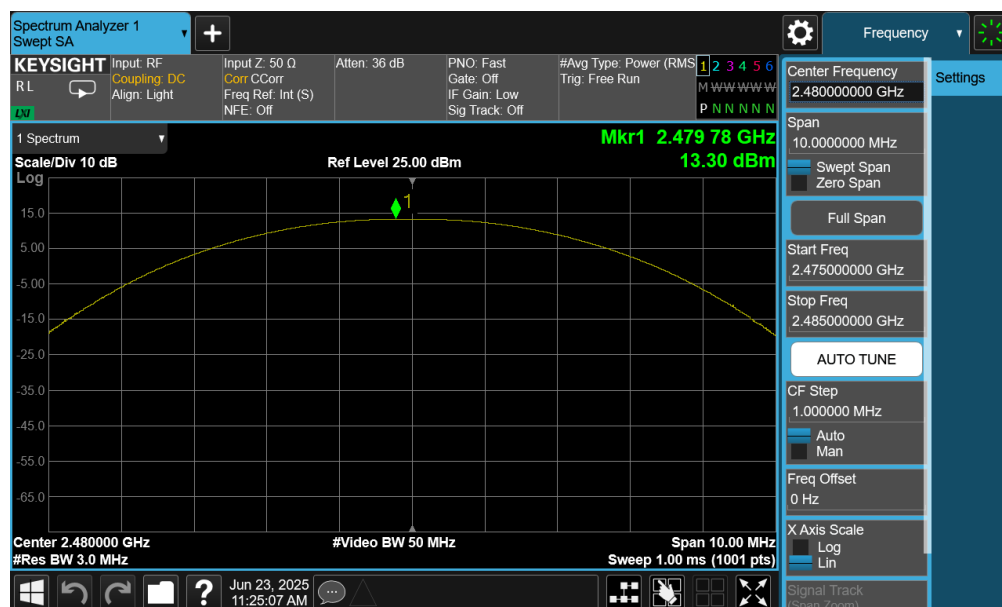


Plot 7-40. Peak Power Plot (Bluetooth (LE), 500kbps – Ch. 37) – Ant 2

FCC ID: A3LSMX736B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2505130050-08.A3L	Test Dates: 6/3 - 7/8/2025	EUT Type: Portable Tablet	Page 38 of 90

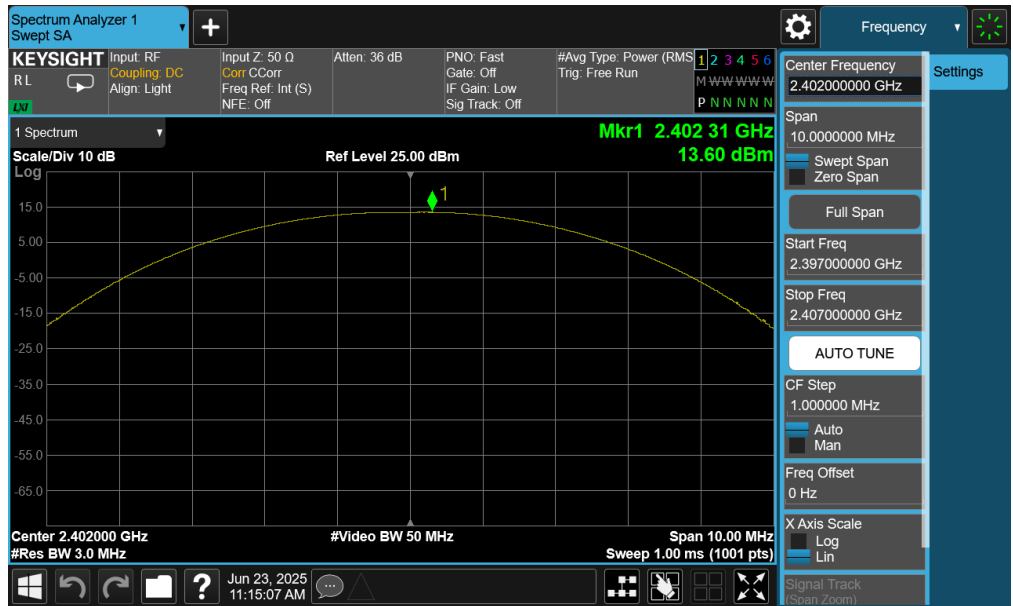


Plot 7-41. Peak Power Plot (Bluetooth (LE), 500kbps – Ch. 17) – Ant 2

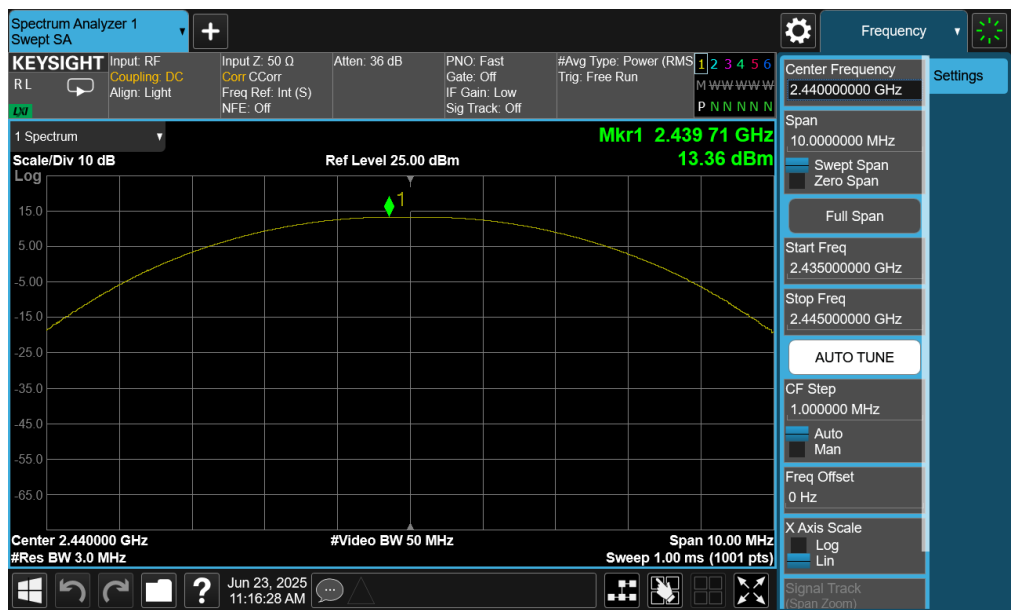


Plot 7-42. Peak Power Plot (Bluetooth (LE), 500kbps – Ch. 39) – Ant 2

FCC ID: A3LSMX736B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2505130050-08.A3L	Test Dates: 6/3 - 7/8/2025	EUT Type: Portable Tablet	Page 39 of 90

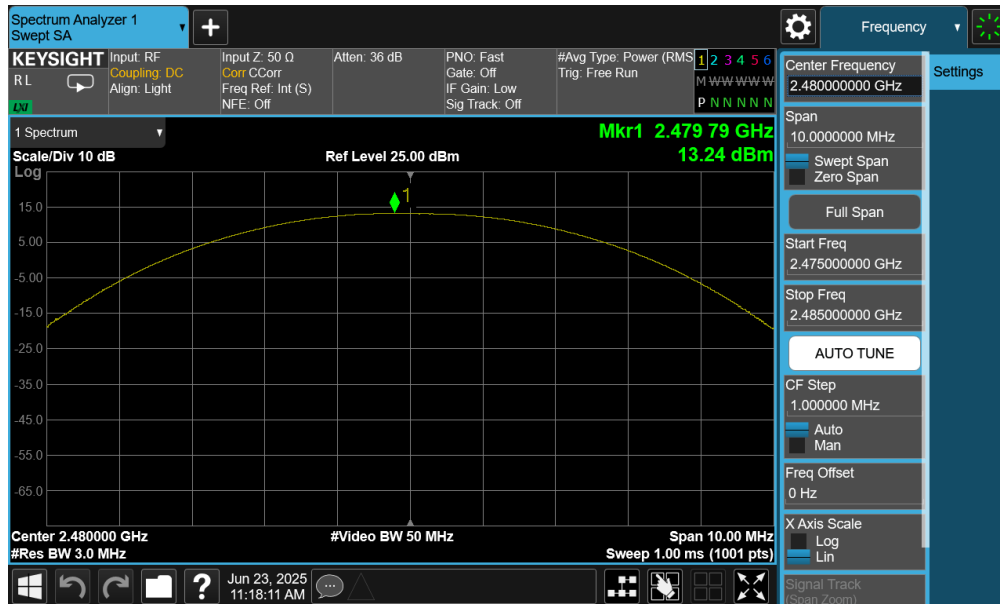


Plot 7-43. Peak Power Plot (Bluetooth (LE), 1Mbps – Ch. 37) – Ant 2

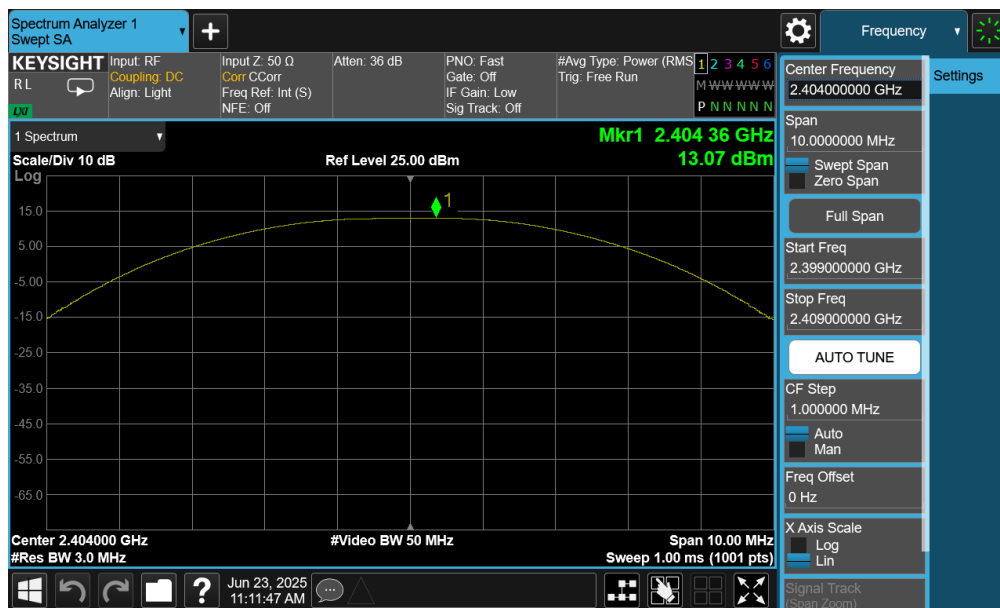


Plot 7-44. Peak Power Plot (Bluetooth (LE), 1Mbps – Ch. 17) – Ant 2

FCC ID: A3LSMX736B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2505130050-08.A3L	Test Dates: 6/3 - 7/8/2025	EUT Type: Portable Tablet	Page 40 of 90

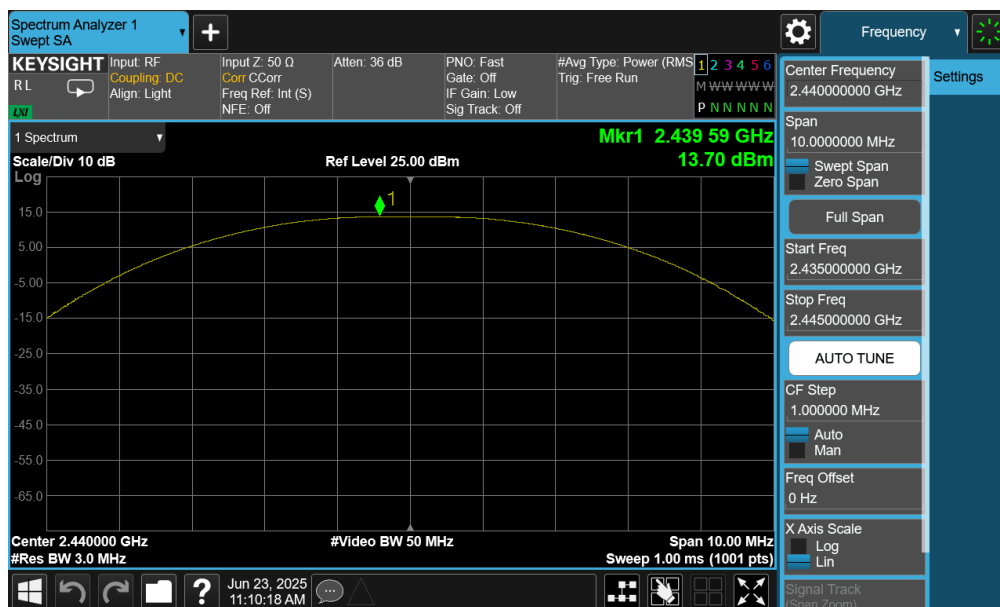


Plot 7-45. Peak Power Plot (Bluetooth (LE), 1Mbps – Ch. 39) – Ant 2

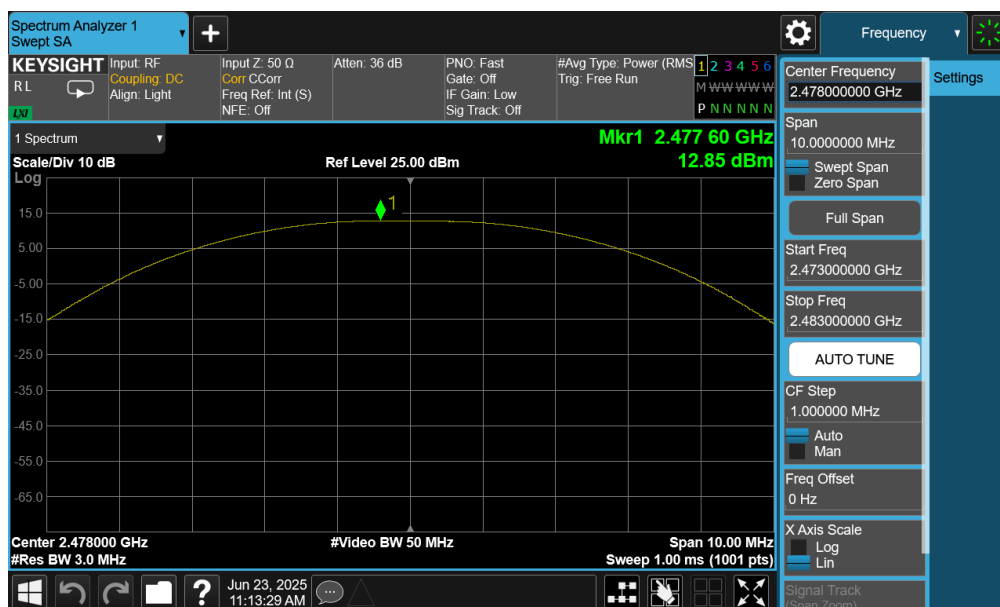


Plot 7-46. Peak Power Plot (Bluetooth (LE), 2Mbps – Ch. 0) – Ant 2

FCC ID: A3LSMX736B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2505130050-08.A3L	Test Dates: 6/3 - 7/8/2025	EUT Type: Portable Tablet	Page 41 of 90



Plot 7-47. Peak Power Plot (Bluetooth (LE), 2Mbps – Ch. 17) – Ant 2



Plot 7-48. Peak Power Plot (Bluetooth (LE), 2Mbps – Ch. 36) – Ant 2

FCC ID: A3LSMX736B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2505130050-08.A3L	Test Dates: 6/3 - 7/8/2025	EUT Type: Portable Tablet	Page 42 of 90

7.4 Power Spectral Density – Bluetooth (LE)

§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 – Section 11.10.2 Method PKPSD

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 = 1MHz
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

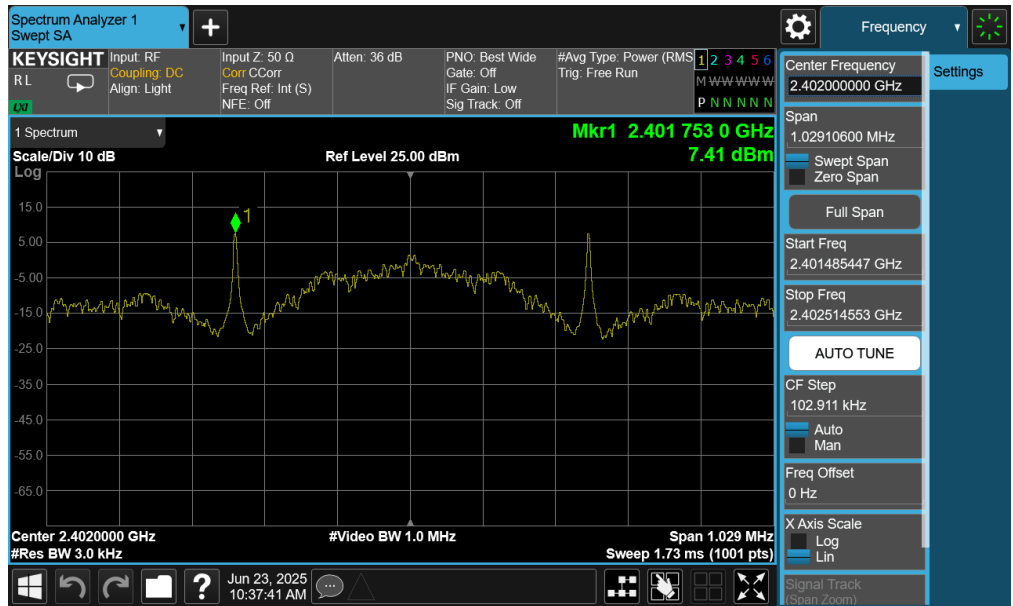
None

FCC ID: A3LSMX736B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2505130050-08.A3L	Test Dates: 6/3 - 7/8/2025	EUT Type: Portable Tablet	Page 43 of 90

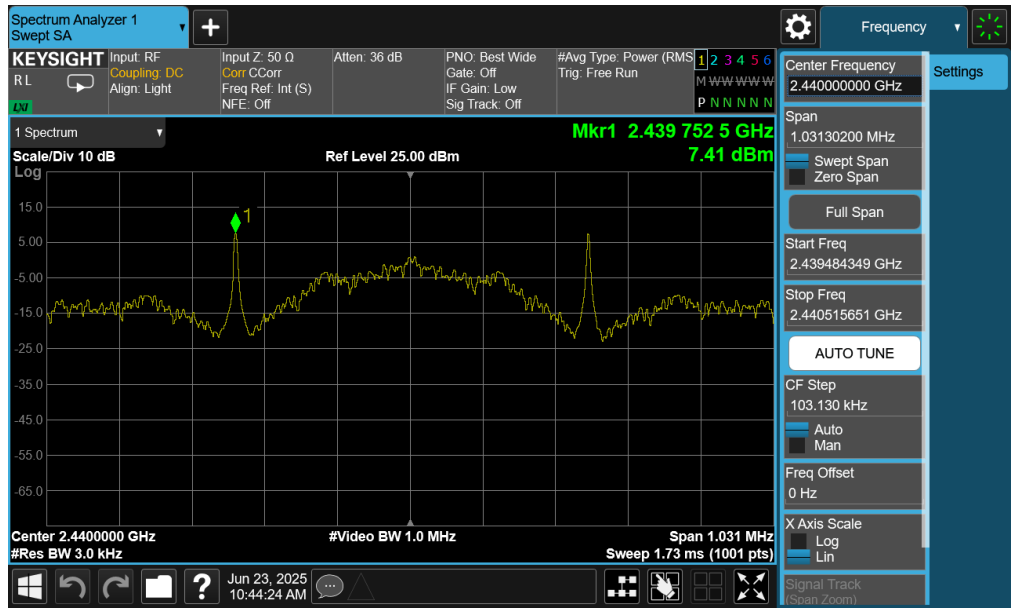
Frequency [MHz]	Data Rate [Mbps]	Channel No.	Bluetooth Mode	Measured Power Spectral Density [dBm]	Maximum Permissible Power Density [dBm / 3kHz]	Margin [dB]
2402	125 kbps	37	LE	7.41	8.0	-0.60
2440	125 kbps	17	LE	7.41	8.0	-0.59
2480	125 kbps	39	LE	7.12	8.0	-0.88
2402	500 kbps	37	LE	7.36	8.0	-0.64
2440	500 kbps	17	LE	7.04	8.0	-0.96
2480	500 kbps	39	LE	6.84	8.0	-1.16
2402	1 Mbps	37	LE	-1.25	8.0	-9.25
2440	1 Mbps	17	LE	-1.94	8.0	-9.94
2480	1 Mbps	39	LE	-2.12	8.0	-10.12
2404	2 Mbps	0	LE	-3.83	8.0	-11.83
2440	2 Mbps	17	LE	-4.21	8.0	-12.21
2478	2 Mbps	36	LE	-4.08	8.0	-12.08

Table 7-6. Conducted Power Density Measurements – Ant 1

FCC ID: A3LSMX736B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2505130050-08.A3L	Test Dates: 6/3 - 7/8/2025	EUT Type: Portable Tablet	Page 44 of 90

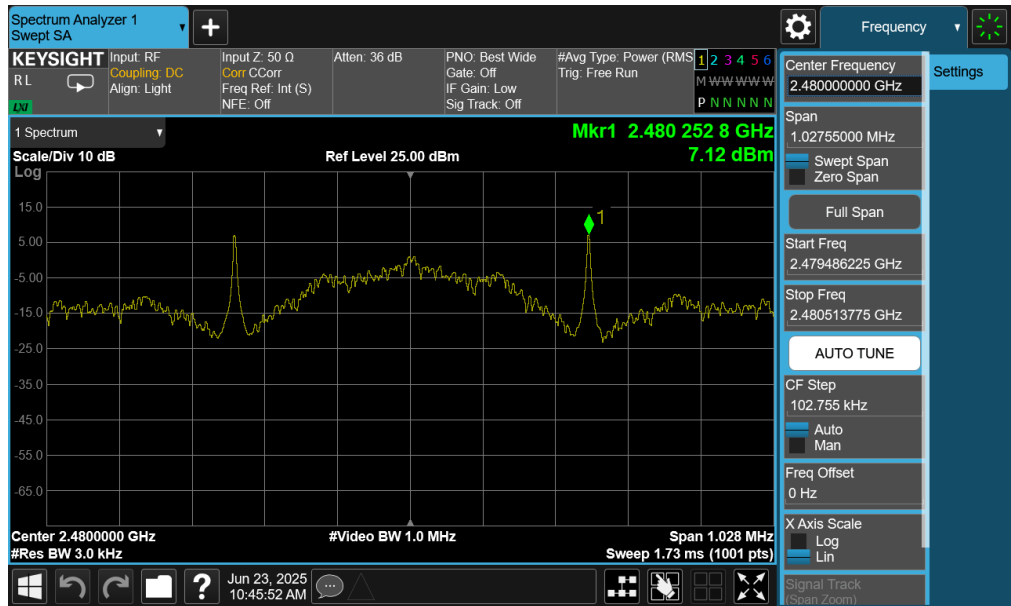


Plot 7-49. Power Spectral Density Plot (Bluetooth (LE), 125kbps – Ch. 37) – Ant 1

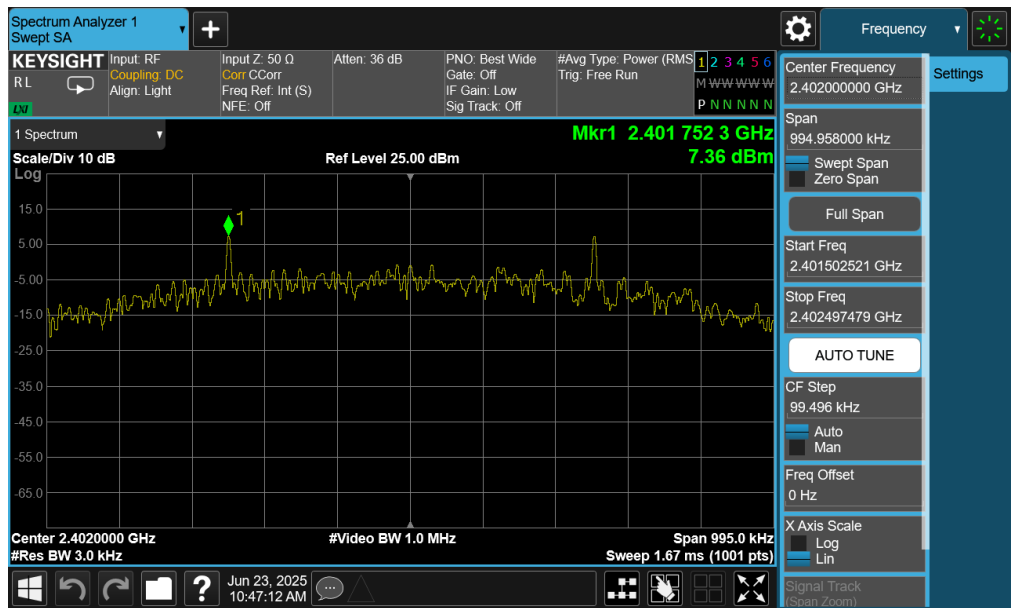


Plot 7-50. Power Spectral Density Plot (Bluetooth (LE), 125kbps – Ch. 17) – Ant 1

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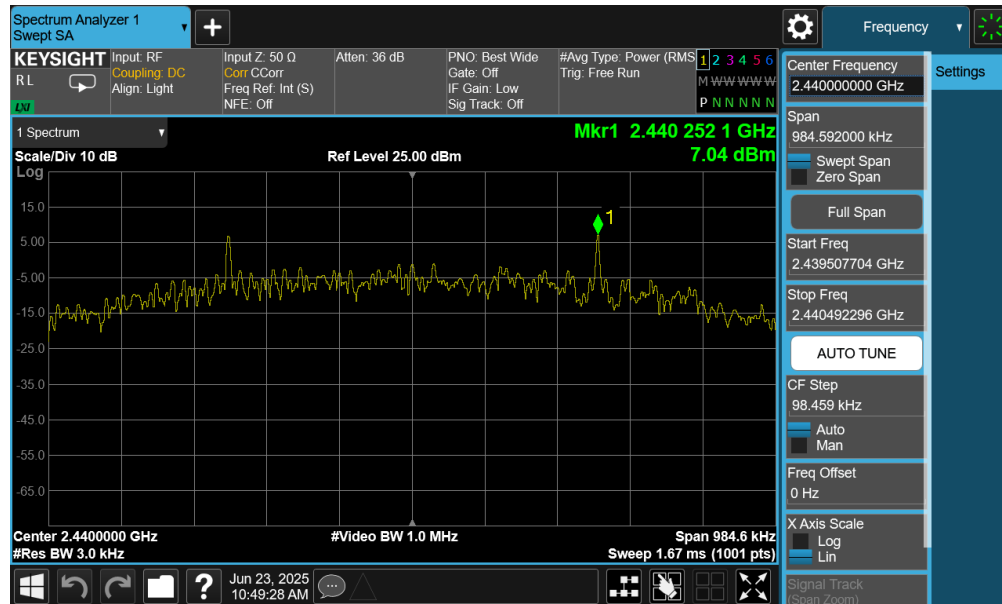


Plot 7-51. Power Spectral Density Plot (Bluetooth (LE), 125kbps – Ch. 39) – Ant 1

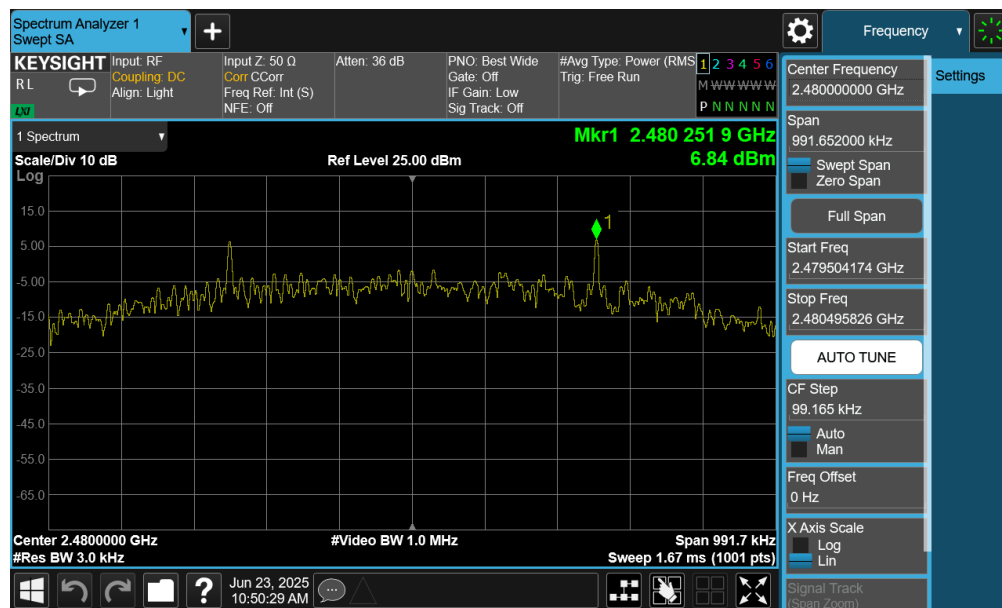


Plot 7-52. Power Spectral Density Plot (Bluetooth (LE), 500kbps – Ch. 37) – Ant 1

FCC ID: A3LSMX736B		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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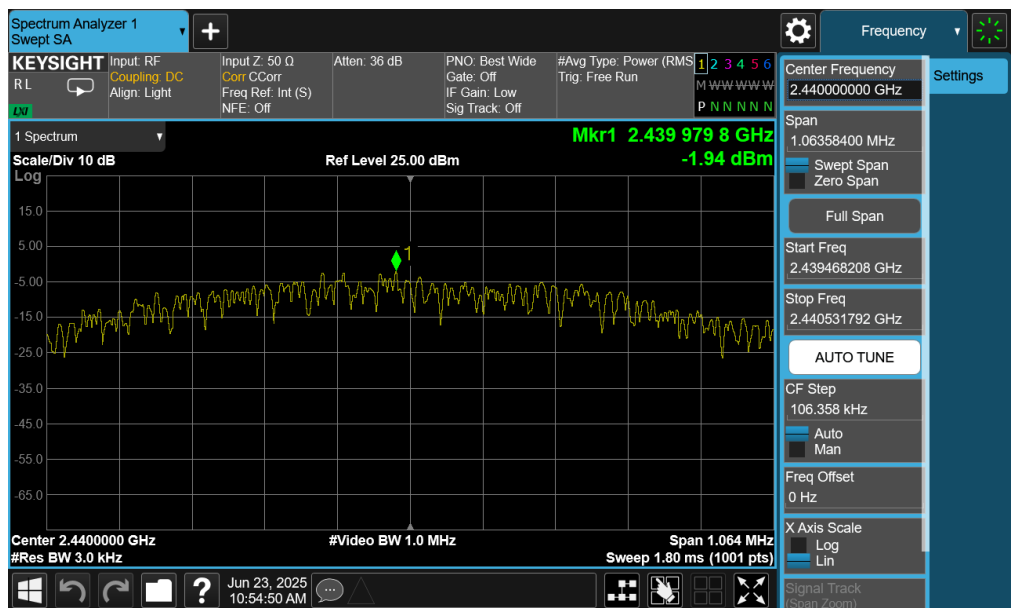
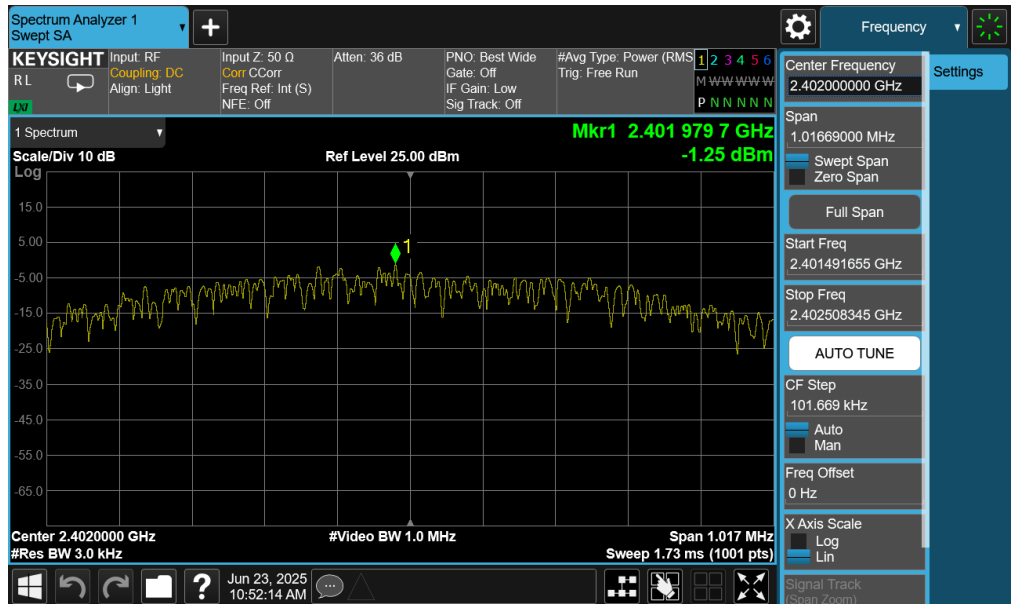


Plot 7-53. Power Spectral Density Plot (Bluetooth (LE), 500kbps – Ch. 17) – Ant 1

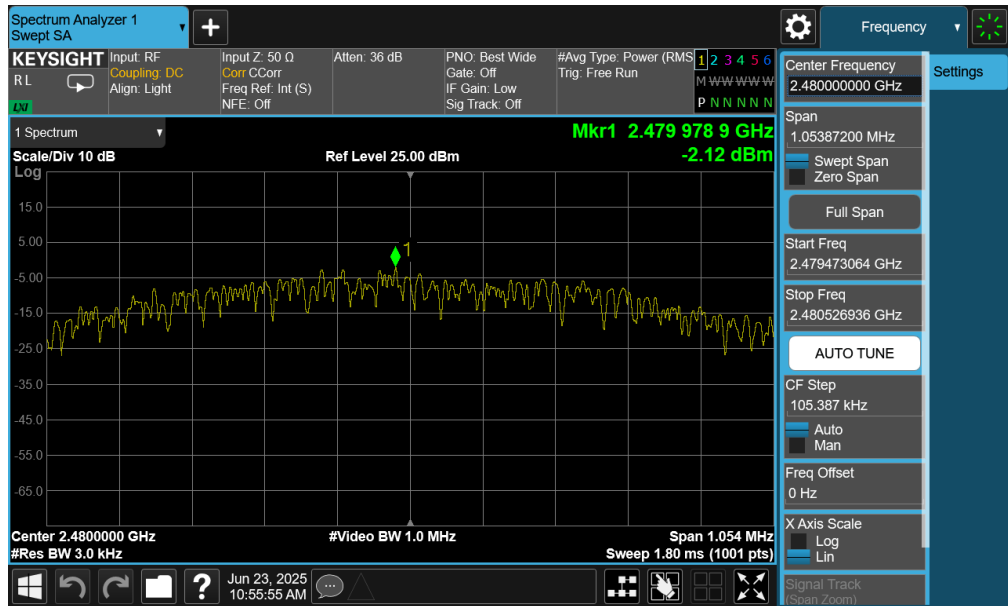


Plot 7-54. Power Spectral Density Plot (Bluetooth (LE), 500kbps – Ch. 39) – Ant 1

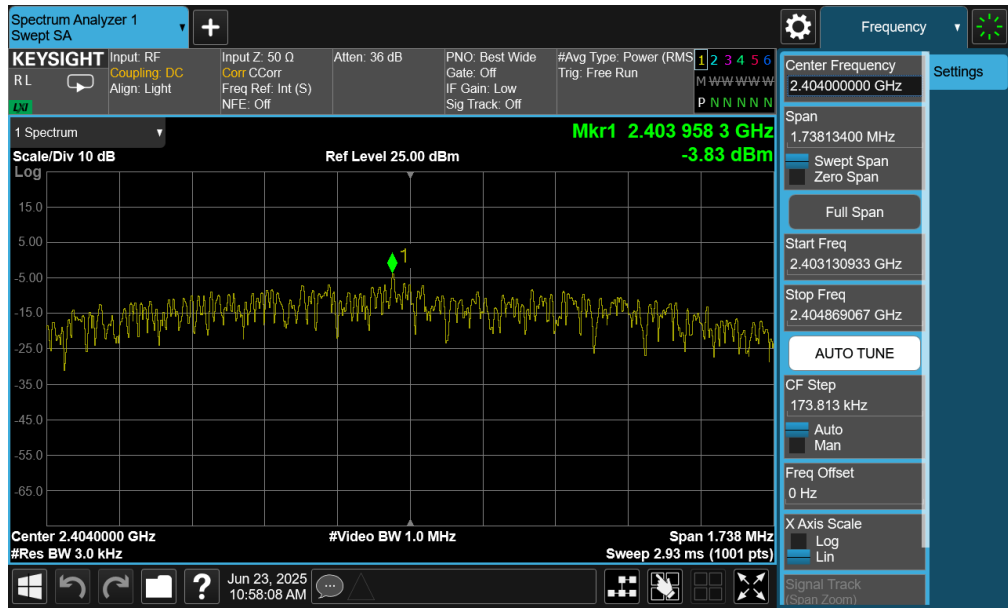
FCC ID: A3LSMX736B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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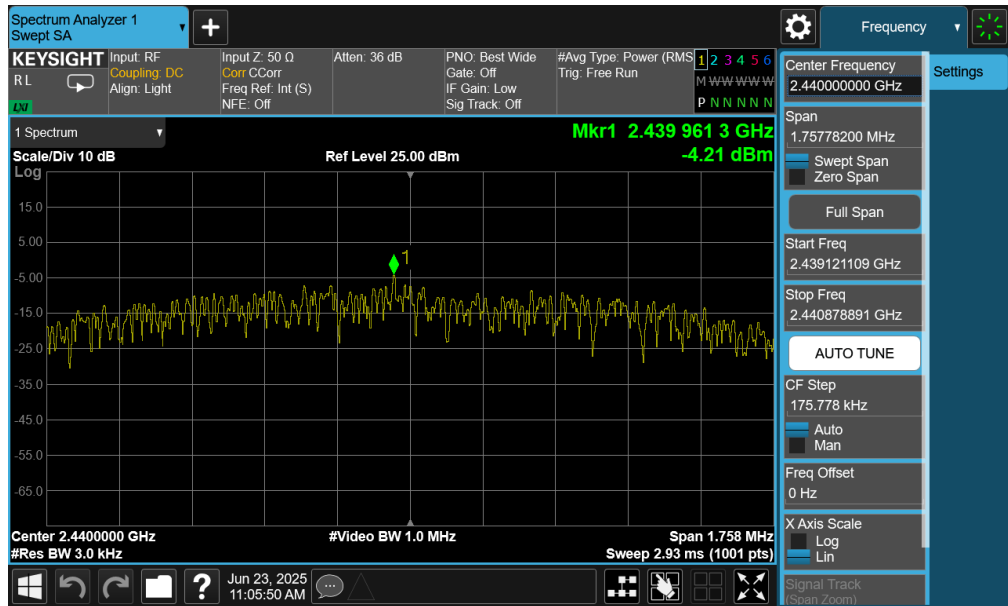


Plot 7-57. Power Spectral Density Plot (Bluetooth (LE), 1Mbps – Ch. 39) – Ant 1

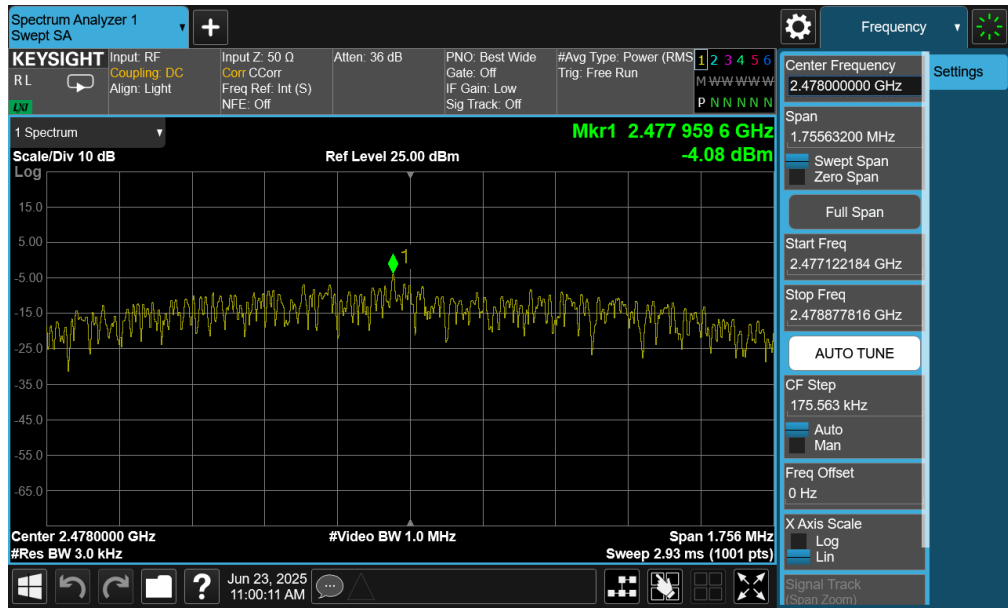


Plot 7-58. Power Spectral Density Plot (Bluetooth (LE), 2Mbps – Ch. 0) – Ant 1

FCC ID: A3LSMX736B		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Plot 7-59. Power Spectral Density Plot (Bluetooth (LE), 2Mbps – Ch. 17) – Ant 1



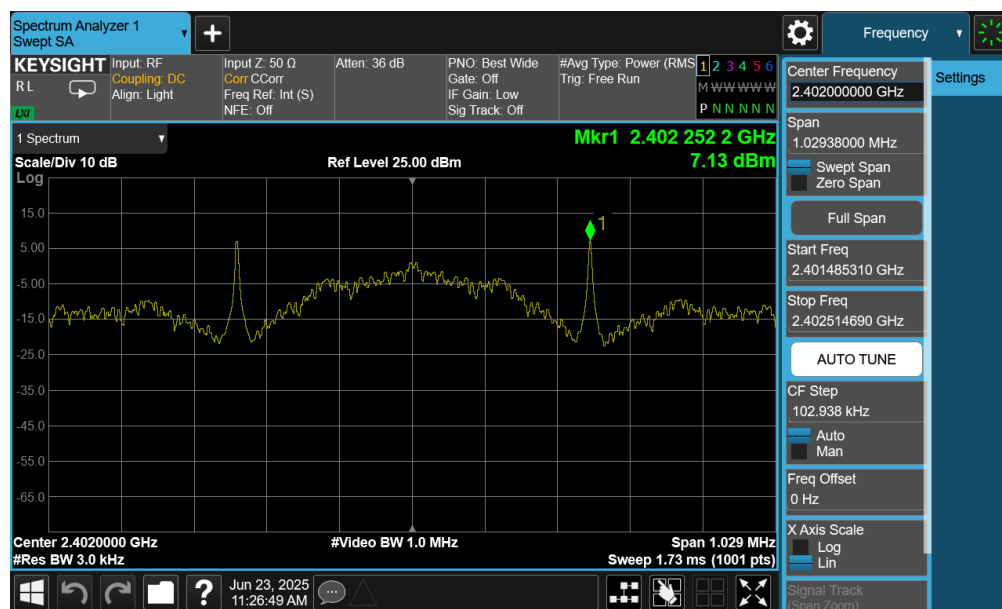
Plot 7-60. Power Spectral Density Plot (Bluetooth (LE), 2Mbps – Ch. 36) – Ant 1

FCC ID: A3LSMX736B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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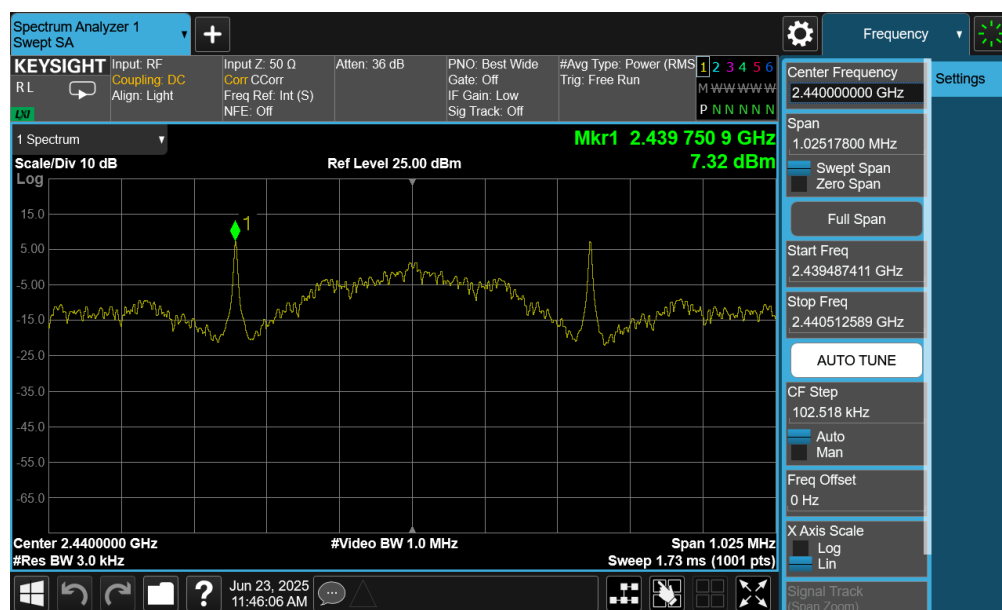
Frequency [MHz]	Data Rate [Mbps]	Channel No.	Bluetooth Mode	Measured Power Spectral Density [dBm]	Maximum Permissible Power Density [dBm / 3kHz]	Margin [dB]
2402	125 kbps	37	LE	7.13	8.0	-0.87
2440	125 kbps	17	LE	7.32	8.0	-0.68
2480	125 kbps	39	LE	7.10	8.0	-0.90
2402	500 kbps	37	LE	7.08	8.0	-0.92
2440	500 kbps	17	LE	6.94	8.0	-1.06
2480	500 kbps	39	LE	6.87	8.0	-1.13
2402	1 Mbps	37	LE	-1.76	8.0	-9.76
2440	1 Mbps	17	LE	-2.01	8.0	-10.01
2480	1 Mbps	39	LE	-2.12	8.0	-10.12
2404	2 Mbps	0	LE	-4.45	8.0	-12.45
2440	2 Mbps	17	LE	-3.83	8.0	-11.83
2478	2 Mbps	36	LE	-4.63	8.0	-12.63

Table 7-7. Conducted Power Density Measurements – Ant 2

FCC ID: A3LSMX736B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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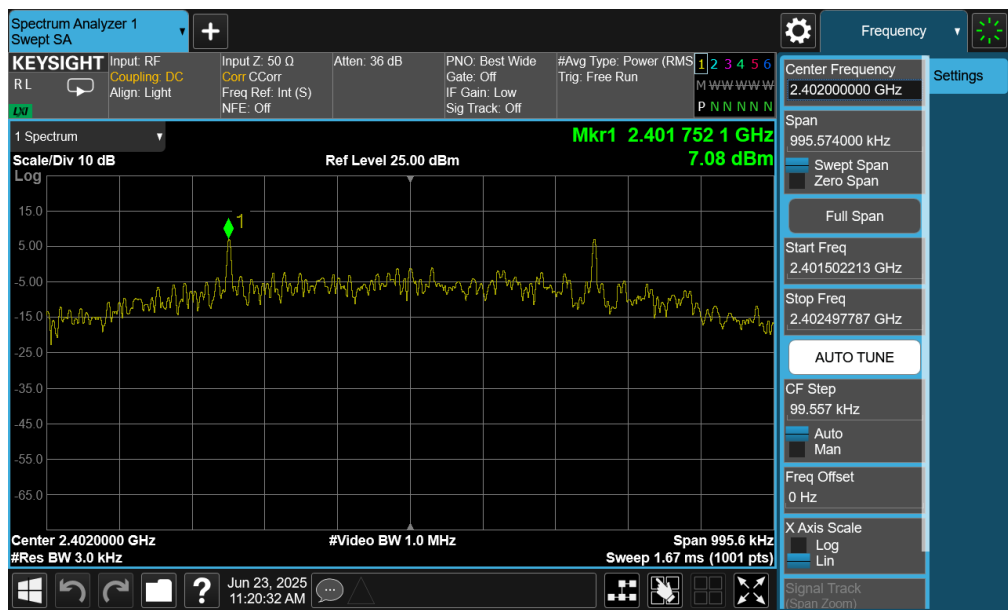
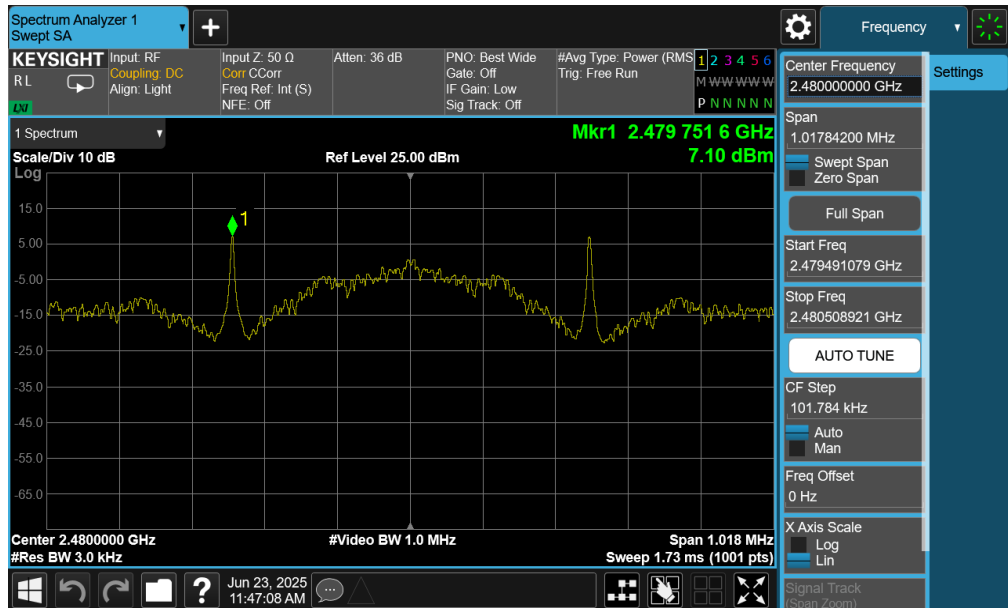


Plot 7-61. Power Spectral Density Plot (Bluetooth (LE), 125kbps – Ch. 37) – Ant 2



Plot 7-62. Power Spectral Density Plot (Bluetooth (LE), 125kbps – Ch. 17) – Ant 2

FCC ID: A3LSMX736B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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