



ELEMENT MATERIALS TECHNOLOGY,

Columbia MD

(formerly PCTEST)

7185 Oakland Mills Road, Columbia, MD 21046 USA

Tel. 410.290.6652 / Fax 410.381.1520

<http://www.element.com>

MEASUREMENT REPORT

FCC PART 15.247 / ISSED RSS-247 802.11b/g/n/ac/ax/be (OFDM)

Applicant Name:

Samsung Electronics Co., Ltd.
129, Samsung-ro,
Yeongtong-gu, Suwon-si
Gyeonggi-do, 16677, Korea

Date of Testing:

2/24/2026 - 4/17/2026

Test Report Issue Date:

5/4/2026

Test Site/Location:

Element Lab., Columbia, MD, USA

Test Report Serial No.:

1M2602190015-14-R1.A3L

FCC ID:

A3LSMF776U

IC:

649E-SMF776W

APPLICANT:

Samsung Electronics Co., Ltd.

Application Type:

Certification

Model:

SM-F776U

HVIN:

SM-F776W

Additional Model(s):

SM-F776U1

EUT Type:

Portable Handset

Frequency Range:

2412 – 2462MHz

Modulation Type:

CCK, DSSS, OFDM

FCC Classification:

Digital Transmission System (DTS)

FCC Rule Part(s):

Part 15 Subpart C (15.247)

ISED Specifications:

RSS-247 Issue 4

FCC Test Procedure(s):

ANSI C63.10:2020 + Cor. 1:2023, KDB 648474 D03 v01r04

ISED Test Procedure(s):

ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to
C63.10a:2024, KDB 648474 D03 v01r04

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.

This revised Test Report (S/N:1M2602190015-14-R1.A3L) supersedes and replaces the previously issued test report (S/N: 1M2602190015-14.A3L) on the same subject device for the same type of testing as indicated. Please discard or destroy the previously issued test report(s) and dispose of it accordingly.

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

RJ Ortanez
Executive Vice President



FCC ID: A3LSMF776U IC: 649E-SMF776W	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-14-R1.A3L	 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 1 of 95		

TEST REPORT REVISION HISTORY

Rev. No.	Description	Issue Date	Revised By
-	Initial Release	4/23/2026	WKR0000005883
1	Addressed comments made by TCB reviewer	5/4/2026	WKR0000005883

FCC ID: A3LSMF776U IC: 649E-SMF776W	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
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TABLE OF CONTENTS

1.0	INTRODUCTION	5
1.1	Scope	5
1.2	Element Test Location	5
1.3	Test Facility / Accreditations	5
2.0	PRODUCT INFORMATION	6
2.1	Equipment Description	6
2.2	Device Capabilities	6
2.3	Test Configuration	8
2.4	Antenna Description	8
2.5	Software and Firmware	8
2.6	EMI Suppression Device(s) / Modifications	8
3.0	DESCRIPTION OF TESTS	9
3.1	Evaluation Procedure	9
3.2	AC Line Conducted Emissions	9
3.3	Radiated Emissions	10
3.4	Environmental Conditions	10
4.0	ANTENNA REQUIREMENTS	11
5.0	MEASUREMENT UNCERTAINTY	12
6.0	TEST EQUIPMENT CALIBRATION DATA	13
7.0	TEST RESULTS	16
7.1	Summary	16
7.2	6dB Bandwidth & Occupied Bandwidth Measurement	17
	6dB Bandwidth Measurements	20
	OBW Measurements	33
7.3	Output Power Measurement	45
7.4	Power Spectral Density	48
	Power Spectral Density Measurements	50
7.5	Conducted Band Edge Emissions	63
	Conducted Band Edge Emissions	64
7.6	Conducted Spurious Emissions	72
	MIMO Conducted Spurious Emissions	74
7.7	Radiated Emission Measurements	80
	MIMO Radiated Spurious Emission Measurements	84
	MIMO Radiated Restricted Band Edge Measurements	89
7.8	Line-Conducted Test Data	91
8.0	CONCLUSION	95

FCC ID: A3LSMF776U IC: 649E-SMF776W	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-14-R1.A3L		This report is Blockchain Verified. To verify the report authenticity, please visit HTTPS://WWW.BLOCKCHAIN-VERIFIED.COM or by clicking on the Blockchain logo.		

MEASUREMENT REPORT

Channel Bandwidth [MHz]	IEEE Mode	Tx Frequency [MHz]	MIMO			
			Avg. Conducted		Peak Conducted	
			Max. Power [mW]	Max. Power [dBm]	Max. Power [mW]	Max. Power [dBm]
20	802.11b	2412 - 2462	187.50	22.73	459.92	26.63
	802.11g	2412 - 2462	119.40	20.77	698.36	28.44
	802.11n	2412 - 2462	125.60	20.99	718.04	28.56
	802.11ac	2412 - 2462	125.60	20.99	717.97	28.56
	802.11ax	2412 - 2462	123.88	20.93	758.02	28.80
	802.11be	2412 - 2462	123.03	20.90	738.37	28.68

EUT Overview

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Test Report S/N: 1M2602190015-14-R1.A3L	 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 4 of 95

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 test laboratory with the site description on file with ISED (Wireless Test Lab number 2451B) and FCC (Designation Number US1113).
- 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).

FCC ID: A3LSMF776U IC: 649E-SMF776W	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-14-R1.A3L	 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 5 of 95

2.0 PRODUCT INFORMATION

2.1 Equipment Description

The Equipment Under Test (EUT) is the **Samsung Portable Handset FCC ID: A3LSMF776U, IC: 649E-SMF776W**. The test data contained in this report pertains only to the emissions due to the EUT's WLAN (DTS) transmitter.

Test Device Serial No.: 0141M, 9680G, 9721G, 0895M, 0903M, 0898M, 0823M, 1164M, 1167M, 0643M, 0859M, 1158M, 1045M, 1039M

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/ac/ax/be WLAN, 802.11a/n/ac/ax/be UNII (5GHz and 6GHz), Bluetooth (1x, EDR, LE), NFC, Wireless Power Transfer, NTN, SCS

Ch.	Frequency (MHz)	Ch.	Frequency (MHz)
1	2412	7	2442
2	2417	8	2447
3	2422	9	2452
4	2427	10	2457
5	2432	11	2462
6	2437		

Table 2-1. Frequency / Channel Operations

Notes:

1. 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 ANSI C63.10:2020. The RBW and VBW were both greater than 50/T, where T is the minimum transmission duration, and the number of sweep points across T was greater than 100. The duty cycles are as follows:

802.11 Mode/Band		MIMO (1+2)	
		Duty Cycle [%]	Radiated DCCF [dB]
2.4GHz	b	98.86	N/A
	g	89.41	0.49
	n (HT20)	97.97	0.09
	ac (VHT20)	97.95	0.09
	ax (HE20)	99.69	N/A
	be (EHT20)	99.71	N/A

Table 2-2. Measured Duty Cycles

FCC ID: A3LSMF776U IC: 649E-SMF776W	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-14-R1.A3L	 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 6 of 95		

2. The device employs MIMO technology. Below are the possible configurations.

WiFi Configurations		MIMO		SDM		CDD	
		ANT1	ANT2	ANT1	ANT2	ANT1	ANT2
2.4GHz	11b	✓	✓	✗	✗	✓	✓
2.4GHz	11g	✓	✓	✗	✗	✓	✓
2.4GHz	11n	✓	✓	✓	✓	✓	✓
2.4GHz	11ac	✓	✓	✓	✓	✓	✓
2.4GHz	11ax	✓	✓	✓	✓	✓	✓
2.4GHz	11be	✓	✓	✓	✓	✓	✓

Table 2-3. Antenna / Technology Configuration

✓ = Support; ✗ = NOT Support

MIMO = Single Input Single Output

SDM = Spatial Diversity Multiplexing – MIMO function

CDD = Cyclic Delay Diversity - 2Tx Function

3. The device supports the following data rates (shown in Mbps):

802.11b	802.11a/g	MCS Index			OFDM (802.11n)				OFDM (802.11ac)				OFDM (802.11ax/be)		
					20MHz		40MHz		80MHz		160MHz		20MHz		
		HT	HE	EHT	0.8μs GI	0.4μs GI	0.8μs GI	0.4μs GI	0.8μs GI	0.4μs GI	0.8μs GI	0.4μs GI	0.8μs GI	1.6μs GI	3.2μs GI
1	6	0	0	0	6.5	7.2	13.5	15	29.3	32.5	58.5	65	8.6	8.1	7.3
2	9	1	1	1	13	14.4	27	30	58.5	65	117	130	17.2	16.3	14.6
5.5	12	2	2	2	19.5	21.7	40.5	45	87.8	97.5	175.5	195	25.8	24.4	21.9
11	18	3	3	3	26	28.9	54	60	117	130	234	260	34.4	32.5	29.3
	24	4	4	4	39	43.3	81	90	175.5	195	351	390	51.6	48.8	43.9
	36	5	5	5	52	57.8	108	120	234	260	468	520	68.8	65	58.5
	48	6	6	6	58.5	65	121.5	135	263.3	292.5	526.5	585	77.4	73.1	65.8
	54	7	7	7	65	72.2	135	150	292.5	325	585	650	86	81.3	73.1
			8	8			162	180	351	390	702	780	103.2	97.5	87.8
			9	9			180	200	390	433.3	780	866.7	114.7	108.3	97.5
			10	10									129	121.9	109.7
			11	11									143.4	135.4	121.9
			12	12									154.9	146.3	131.6
			13	13									172.1	162.5	146.3
1	6	8	0	0	13	14.4	27	30	58.5	65	117	130	17.2	16.3	14.6
2	9	9	1	1	26	28.9	54	60	117	130	234	260	34.4	32.5	29.3
5.5	12	10	2	2	39	43.3	81	90	175.5	195	351	390	51.6	48.8	43.9
11	18	11	3	3	52	57.8	108	120	234	260	468	520	68.8	65	58.5
	24	12	4	4	78	86.7	162	180	351	390	702	780	103.2	97.5	87.8
	36	13	5	5	104	115.6	216	240	468	520	936	1040	137.6	130	117
	48	14	6	6	117	130	243	270	526.5	585	1053	1170	154.9	146.3	131.6
	54	15	7	7	130	144.4	270	300	585	650	1170	1300	172.1	162.5	146.3
			8	8	156	173.3	324	360	702	780	1404	1560	206.5	195	175.5
			9	9	N/A	N/A	360	400	780	866.7	1560	1733.3	229.4	216.7	195
			10	10									258.1	243.8	219.4
			11	11									286.8	270.8	243.8
			12	12									309.7	292.5	263.3
			13	13									344.1	325	292.5

Table 2-4. Supported Data Rates

FCC ID: A3LSMF776U IC: 649E-SMF776W	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-14-R1.A3L	 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 7 of 95		

2.3 Test Configuration

ANSI C63.10:2020 was used to reference the appropriate EUT setup for radiated spurious emissions testing and AC line conducted testing. See Sections 7.8 for AC line conducted emissions test setups, 7.7 for radiated emissions test setups, and 7.2, 7.3, 7.4, 7.5, and 7.6 for antenna port conducted emissions test setups.

This device supports three folder configurations: one is with folder fully open, one is where the folder is half open (90 degrees), and one is with folder closed. All configurations are tested, and the worst case radiated emissions data is shown in this report.

This device supports wireless charging capability and, thus, is subject to the test requirements of KDB 648474 D03 v01r04. Additional radiated spurious emission measurements were performed with the EUT lying flat on an authorized wireless charging pad (WCP) Model: EP-N2400 while operating under normal conditions in a simulated call or data transmission configuration. The worst case radiated emissions data is shown in this report.

2.4 Antenna Description

The manufacturer provided the antenna gains which can affect the validity of test results used for determination of compliance. The following antenna gains are used in this device per the "Unlicensed Band Antenna Gain" document provided by the client. This document is also included in the filing as a public exhibit.

Frequency [GHz]	Antenna-1 Gain (dBi)	Antenna-2 Gain (dBi)	Directional Antenna Gain (dBi)
2.4	-5.90	-7.70	-3.74

Table 2-5. Antenna Peak Gain

2.5 Software and Firmware

The test was conducted with software/firmware version F776USQU0AZC2 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.

FCC ID: A3LSMF776U IC: 649E-SMF776W	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-14-R1.A3L	 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 8 of 95		

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) was 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 that 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 7.8. The EMI Receiver mode of the Agilent MXE was used to perform AC line conducted emissions testing.

FCC ID: A3LSMF776U IC: 649E-SMF776W	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-14-R1.A3L	 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 9 of 95		

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).

FCC ID: A3LSMF776U IC: 649E-SMF776W	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-14-R1.A3L		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 10 of 95

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 antennas of the EUT are **permanently attached**.
- There are no provisions for connections to an external antenna.

Conclusion:

The EUT unit complies with the requirement of §15.203.

FCC ID: A3LSMF776U IC: 649E-SMF776W	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-14-R1.A3L	 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 11 of 95

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). Measurement 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
-	MD 1M 40	EMC Cable and Switch System	2/3/2026	Annual	2/3/2027	MD 1M 40
-	AP2-001	EMC Cable and Switch System	1/30/2026	Annual	1/30/2027	AP2-001
-	AP2-002	EMC Cable and Switch System	1/30/2026	Annual	1/30/2027	AP2-002
-	ETS-001	EMC Cable and Switch System	1/29/2026	Annual	1/29/2027	ETS-001
-	ETS-002	EMC Cable and Switch System	1/29/2026	Annual	1/29/2027	ETS-002
-	WL25-1	Conducted Cable Set (25GHz)	1/30/2026	Annual	1/30/2027	WL25-1
-	WL25-2	Conducted Cable Set (25GHz)	1/30/2026	Annual	1/30/2027	WL25-2
-	WL40-1	Conducted Cable Set (40GHz)	1/30/2026	Annual	1/30/2027	WL40-1
-	WL40-2	Conducted Cable Set (40GHz)	1/30/2026	Annual	1/30/2027	WL40-2
Anritsu	MA24408A	POWER SENSOR	1/27/2026	Annual	1/27/2027	11676
Anritsu	MA24408A	POWER SENSOR	3/4/2026	Annual	3/4/2027	11675
Anritsu	MA24408A	POWER SENSOR	1/27/2026	Annual	1/27/2027	12798
Anritsu	MA24408A	POWER SENSOR	3/4/2026	Annual	3/4/2027	12776
EMCO	3115	Horn Antenna (1-18GHz)	9/6/2024	Biennial	9/6/2026	9704-5182
ETS Lindgren	3117	1-18 GHz DRG Horn (Medium)	6/4/2025	Biennial	6/4/2027	125518
Keysight Technologies	N9030A	PXA Signal Analyzer	11/3/2025	Annual	11/3/2026	MY54490576
Keysight Technologies	N9038A	MXE EMI Receiver	11/10/2025	Annual	11/10/2026	MY51210133
Keysight Technologies	N9020A	MXA Signal Analyzer	5/7/2025	Annual	5/7/2026	US46470561
Keysight Technologies	N9030A	PXA Signal Analyzer (44GHz)	6/6/2025	Annual	6/6/2026	MY52350166
Pasternack	NMLC-2	Line Conducted Emissions Cable (NM)	1/30/2026	Annual	1/30/2027	NMLC-2
Rohde & Schwarz	ESU26	EMI Test Receiver (26.5GHz)	12/19/2025	Annual	12/19/2026	100342
Rohde & Schwarz	ESU40	EMI Test Receiver (40GHz)	1/16/2026	Annual	1/16/2027	100348
Rohde & Schwarz	ESW44	EMI Test Receiver 2Hz to 44 GHz	3/11/2026	Annual	3/11/2027	101716
Rohde & Schwarz	ESU26	EMI Test Receiver (26.5GHz)	12/19/2025	Annual	12/19/2026	100342
Rohde & Schwarz	ENV216	Two-Line V-Network	2/4/2026	Biennial	2/4/2028	101379
Sunol	J85	Bi-Log Antenna (30M - 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.

FCC ID: A3LSMF776U IC: 649E-SMF776W	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-14-R1.A3L		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 13 of 95

Component	Serial Number
MegaPhase (CAGE 1GVT4) Cable TM40-K1K1-30	20233002 004
Uniflex Micro Coax UFB 142A-Q-0984-200200	64639 232063 001
R&S TS-PR1840	9037.7670.02

Table 6-2. MD 1M 18-40 EMC Cable and Switch System Components

Component	Serial Number
Flex Cable	P2A-0001
Micro-Coax Utilflex Cable UFB311A-Q-3346-50U50U MFR 64639	231978-003
Chamber Passthrough	CP4/X12
Micro-Coax Utilflex Cable UFB311A-1-0629-50U50U MFR 64639	231986-003
Micro-Coax Utilflex Cable UFB142A-0-0629-5GU200 MFR 6463	232069-001
Rohde & Schwarz TS-PR8 Pre-Amplifier	102335
Rohde & Schwarz OSP130 Open Switch and Control Unit	101181

Table 6-3. AP2-001 EMC Cable and Switch System Components

Component	Serial Number
MiniCircuits Cable CBL-0.5M-SMNM+	47261
Micro-Coax Utilflex Cable UFB311A-Q-3346-50U50U MFR 64639	231978-001
Micro-Coax Utilflex Cable UFB311A-1-0629-50U50U MFR 64639	231986-002
MegaPhase (CAGE 1GVT4) Cable NC29-N1N1-324	19046401 001
Megaphase (CAGE 1GVT4) Flex Cable 10511-1	15044701-006
Micro-Coax Utilflex Cable UFB311A-Q-3346-50U50U MFR 64639	231978-002
Micro-Coax Utilflex Cable UFB311A-1-0629-50U50U MFR 64639	231986-004
Micro-Coax Utilflex Cable UFB142A-0-0629-5GU200 MFR 64639	232069-001
Rohde & Schwarz SF Unit	102138
Rohde & Schwarz OSP130 Open Switch and Control Unit	101181
Micro-Coax Utilflex Cable UFB311A-Q-3346-50U50U MFR 64639	231978-003
Micro-Coax Utilflex Cable UFB311A-1-0629-50U50U MFR 64639	231986-003
Rohde & Schwarz TS-PR8 Pre-Amplifier	102335

Table 6-4. AP2-002 EMC Cable and Switch System Components

Component	Serial Number
Pasternack Cable RG214/U	111815
MegaPhase (CAGE 1GVT4) Cable GR18-N5N5-24	14042714 001

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

Component	Serial Number
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 6-6. ETS-002 EMC Cable and Switch System Components

Component	Serial Number
MegaPhase Cable, Model: TM26-S1S1-30	20929201 004
Pasternack 6dB Attenuator, Model: PE7005-6	N/A

Table 6-7. WL25-1 Conducted Cable Set Components

FCC ID: A3LSMF776U IC: 649E-SMF776W	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-14-R1.A3L	 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 95		

Component	Serial Number
Mini-Circuits Cable, Model: CBL-2FT-SMSM+	77743
MCL 6dB Attenuator, Model: BW-S6W2+	1314

Table 6-8. WL25-2 Conducted Cable Set Components

Component	Serial Number
MegaPhase Cable, Model: TM40-K1K1-36	18160102 001
MCL 10dB Attenuator, Model: BW-K10 2W44+	1902

Table 6-9. WL40-1 Conducted Cable Set Components

Component	Serial Number
MegaPhase Cable, Model: TM40-K1K1-30	18165902 001
MCL 10dB Attenuator, Model: BW-K10 2W44+	2108

Table 6-10. WL40-2 Conducted Cable Set Components

FCC ID: A3LSMF776U IC: 649E-SMF776W	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
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7.0 TEST RESULTS

7.1 Summary

Company Name: Samsung Electronics Co., Ltd.
 FCC ID: A3LSMF776U
 IC: 649E-SMF776W
 FCC Classification: Digital Transmission System (DTS)

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	The minimum 6 dB bandwidth shall be at least 500 kHz.	CONDUCTED	PASS	Section 7.2
15.247(b)(3)	RSS-247 [6.3.2]	Transmitter Output Power	shall not exceed 1 W		PASS	Section 7.3
N/A	RSS-247 [6.3.2]	e.i.r.p.	shall not exceed 4 W		PASS	Section 7.3
15.247(e)	RSS-247 [6.3.1(b)]	Transmitter Power Spectral Density	shall not be greater than 8 dBm in any 3 kHz band		PASS	Section 7.4
15.247(d)	RSS-247 [6.6]	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	Section 7.7
15.207	RSS-Gen [8.8]	AC Conducted Emissions 150kHz – 30MHz	< FCC 15.207 limits (RSS-Gen [8.8])	LINE CONDUCTED	PASS	Section 7.8

Table 7-1. Summary of Test Results

Notes:

- 1) All modes of operation and data rates 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 “WLAN Automation,” Version 3.5.
- 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 1.7.1.

FCC ID: A3LSMF776U IC: 649E-SMF776W	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-14-R1.A3L	 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 95		

7.2 6dB Bandwidth & Occupied Bandwidth Measurement

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 its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates were investigated and the worst case configuration results are reported in this section.

The minimum 6 dB bandwidth shall be at least 500 kHz.

Test Procedure Used

ANSI C63.10:2020 – Section 11.8.2

Test Settings - 6dB Bandwidth

1. The signal analyzer's automatic bandwidth measurement capability 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 Settings - Occupied Bandwidth

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

FCC ID: A3LSMF776U IC: 649E-SMF776W	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-14-R1.A3L	 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 17 of 95

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: A3LSMF776U IC: 649E-SMF776W	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-14-R1.A3L	 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 95		

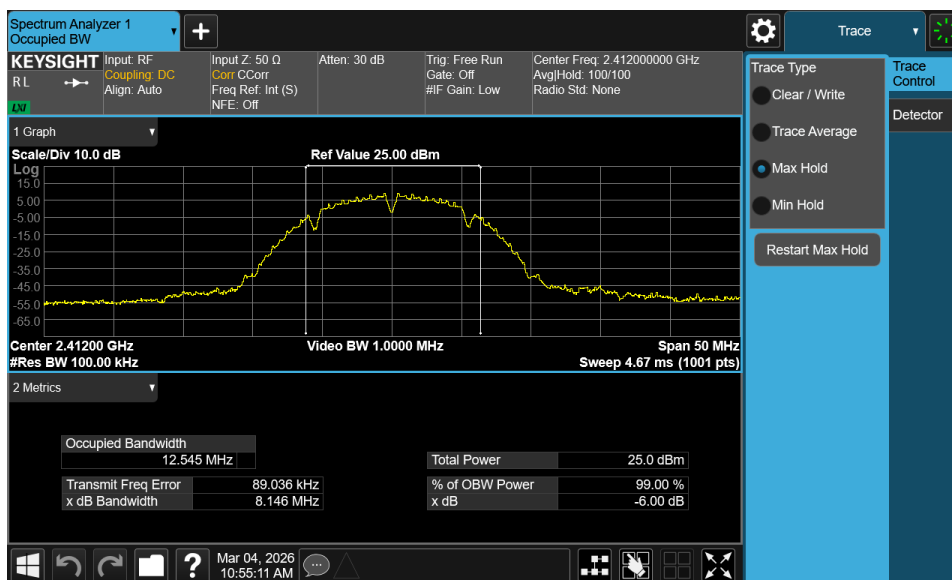
6dB Bandwidth Measurements

Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Measured Bandwidth - ANT1 [MHz]	Measured Bandwidth - ANT2 [MHz]	Minimum Bandwidth [MHz]
2412	1	b	1	8.146	8.599	0.500
2437	6	b	1	9.117	8.167	0.500
2462	11	b	1	9.095	9.430	0.500
2412	1	g	6	15.99	15.92	0.500
2437	6	g	6	16.34	15.71	0.500
2462	11	g	6	16.11	16.38	0.500
2412	1	n / ac	6.5/7.2 (MCS0)	17.20	16.96	0.500
2437	6	n / ac	6.5/7.2 (MCS0)	17.54	17.18	0.500
2462	11	n / ac	6.5/7.2 (MCS0)	17.58	17.64	0.500
2412	1	ax / be	6.5/7.2 (MCS0)	18.57	18.89	0.500
2437	6	ax / be	6.5/7.2 (MCS0)	18.90	18.53	0.500
2462	11	ax / be	6.5/7.2 (MCS0)	18.90	18.95	0.500

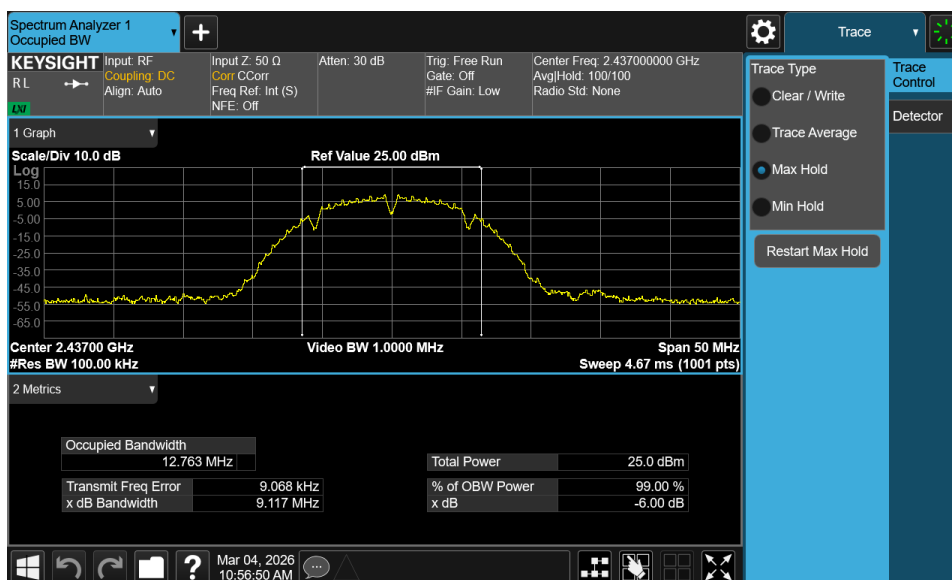
Table 7-2. Conducted 6dB Bandwidth Measurements MIMO

FCC ID: A3LSMF776U IC: 649E-SMF776W	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
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6dB Bandwidth Measurements

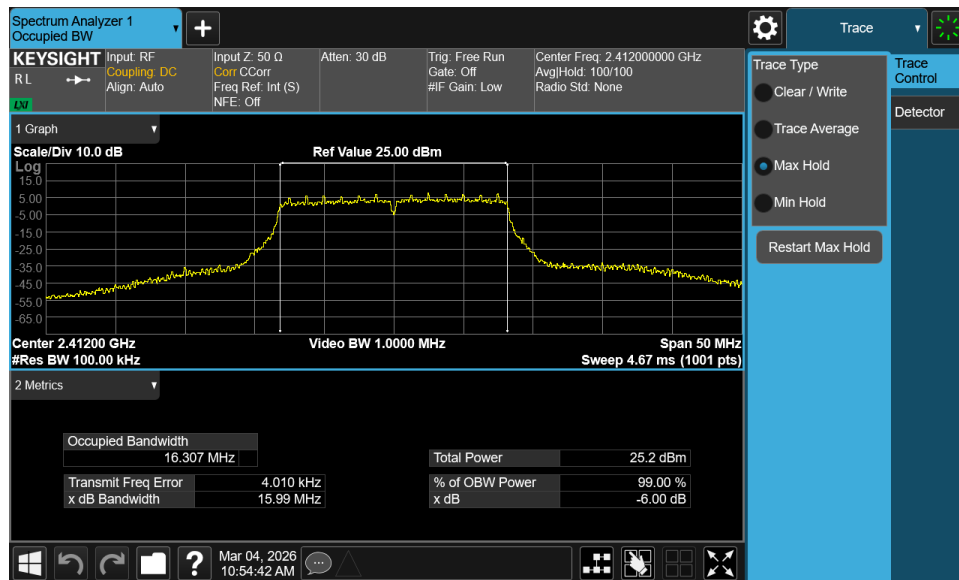


Plot 7-1. 6dB Bandwidth Plot MIMO ANT1 (802.11b – Ch. 1)

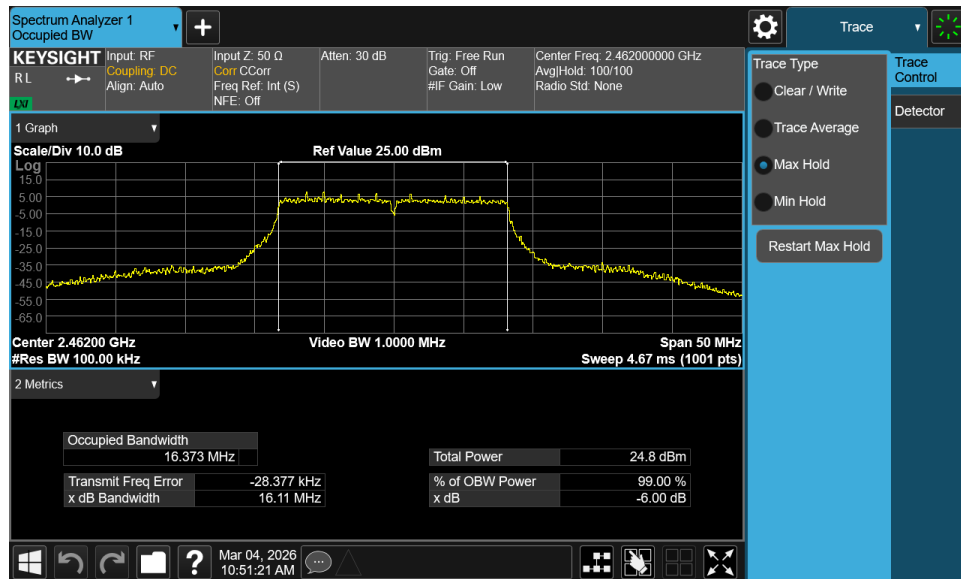
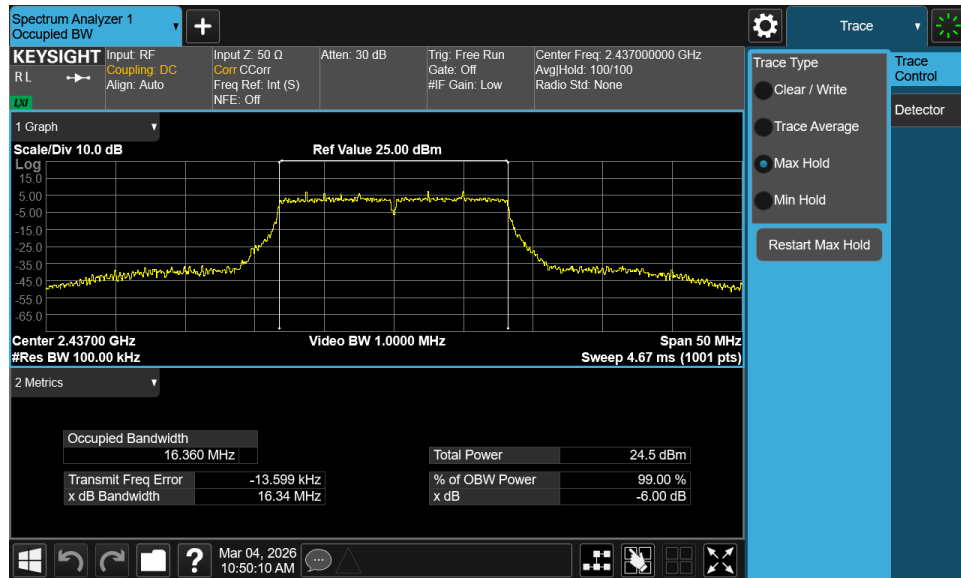


Plot 7-2. 6dB Bandwidth Plot MIMO ANT1 (802.11b – Ch. 6)

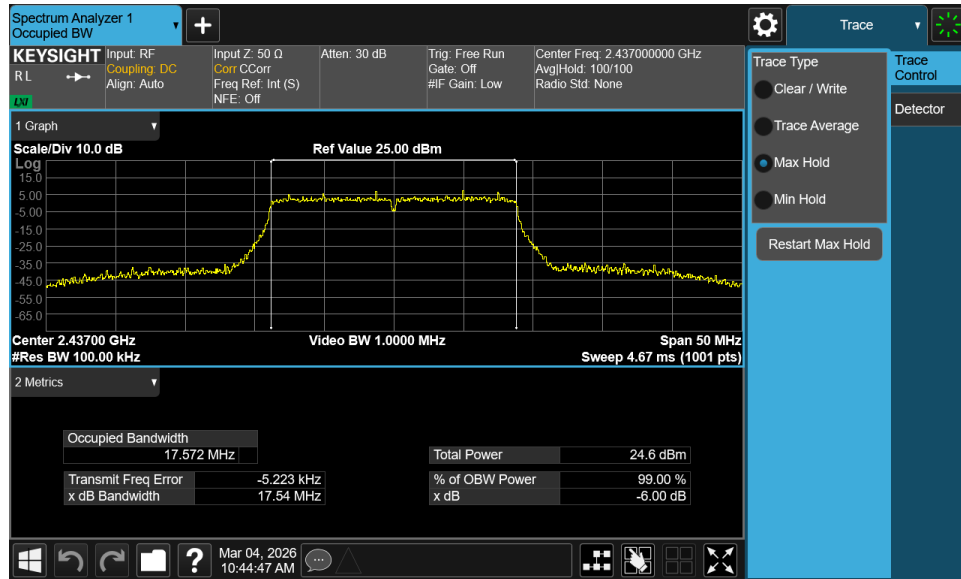
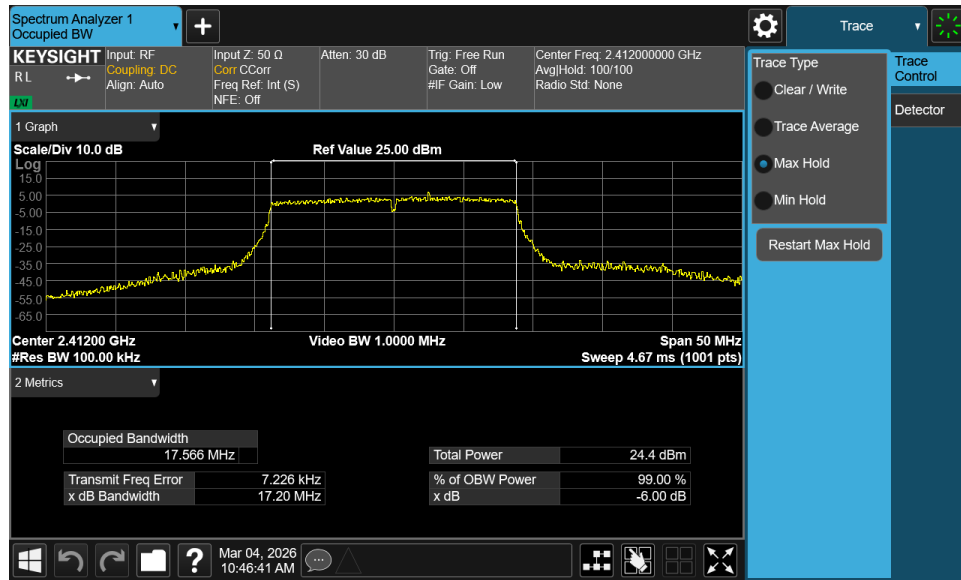
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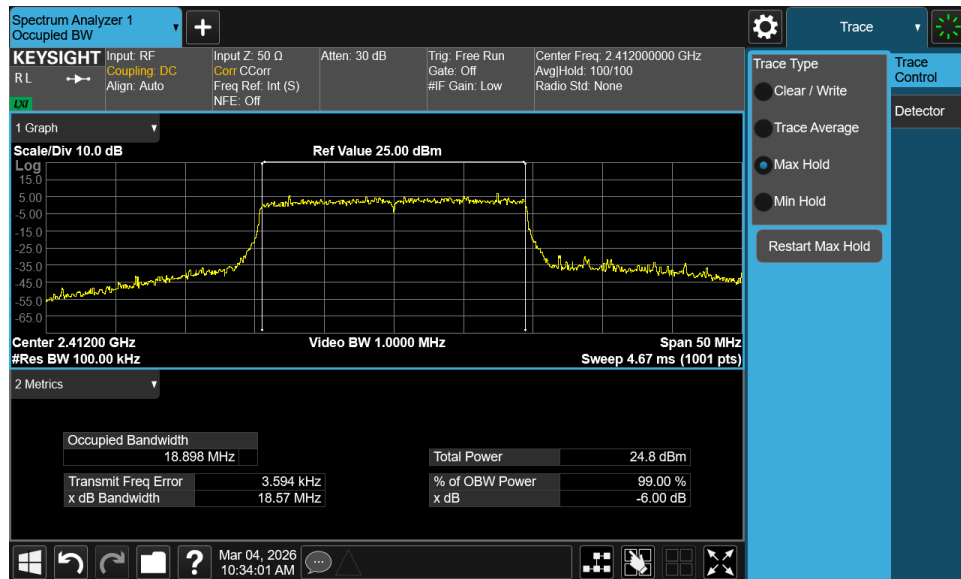
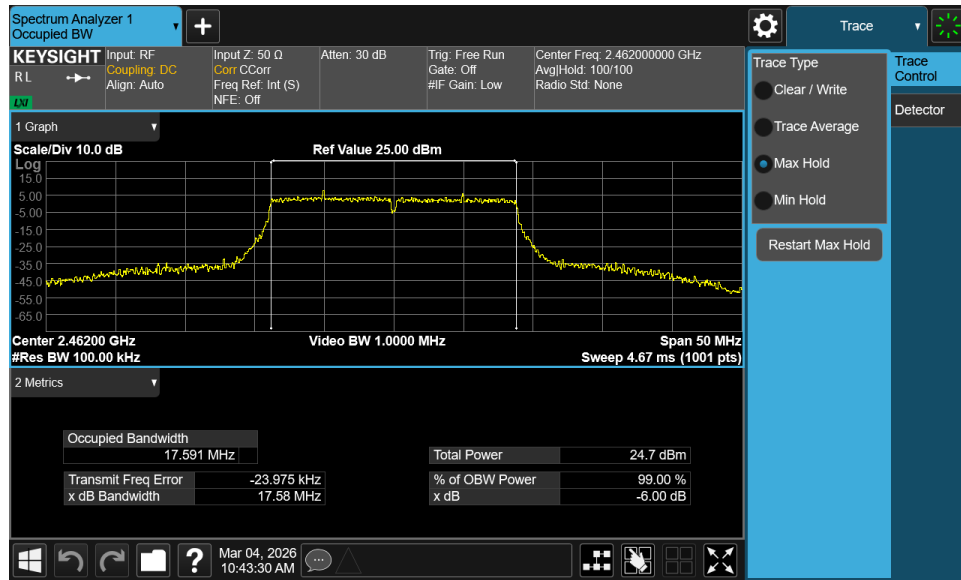
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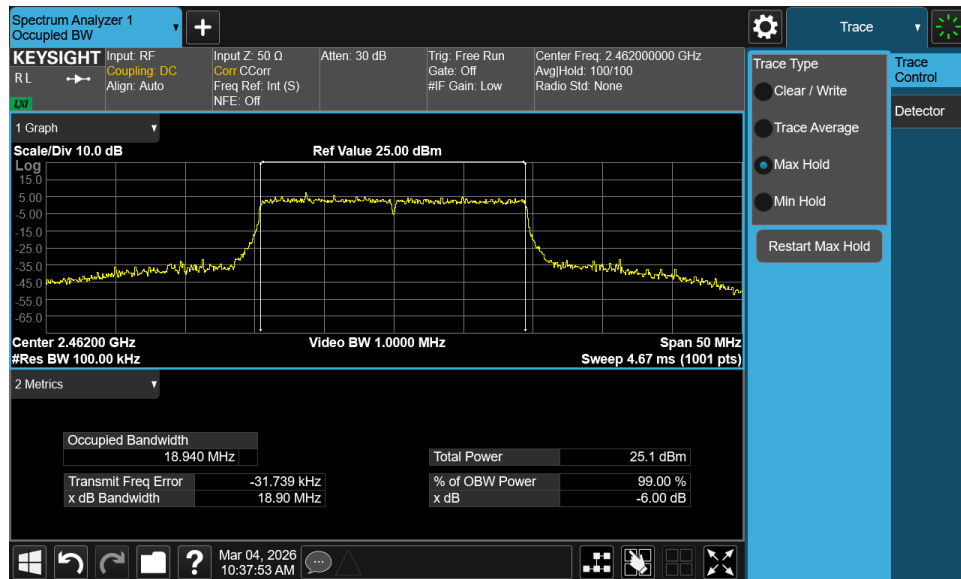
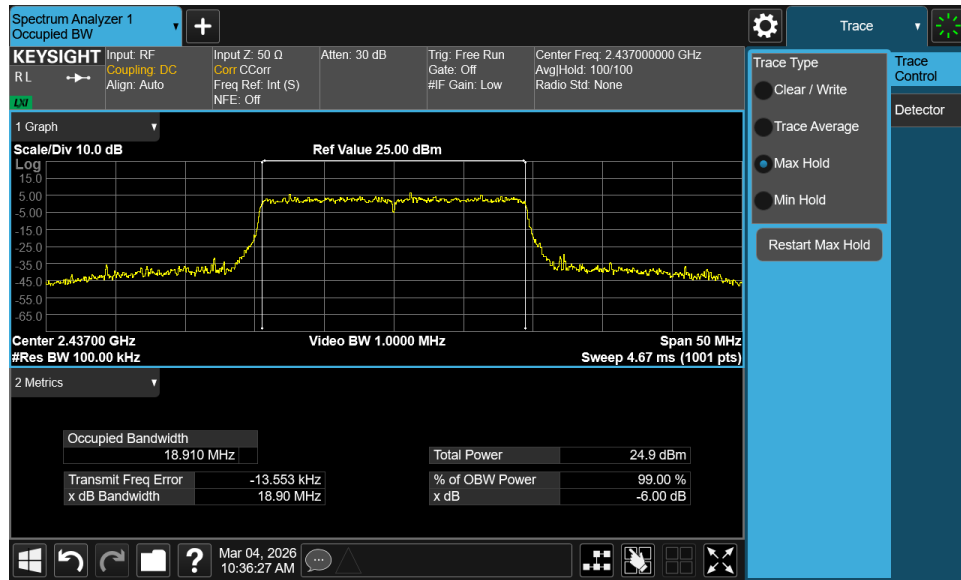
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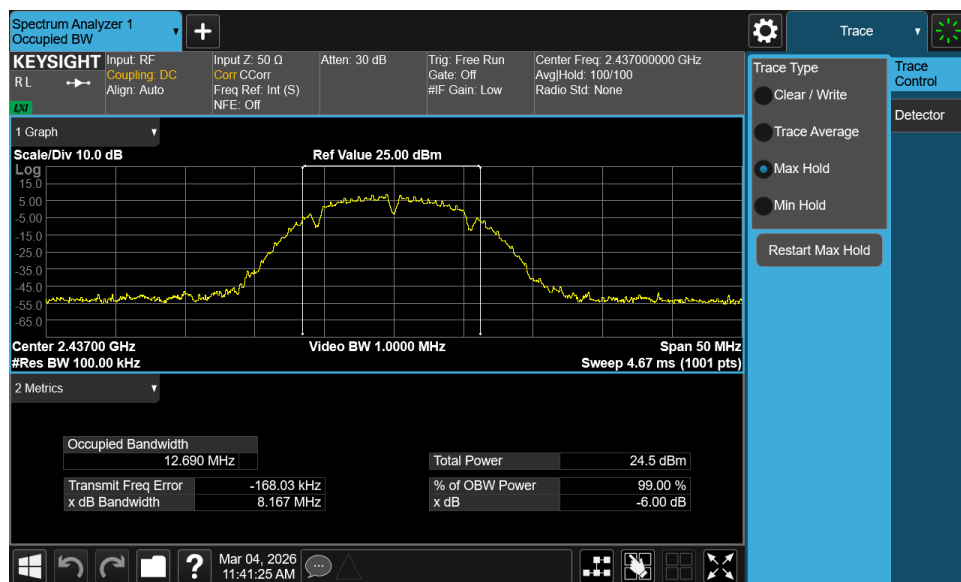
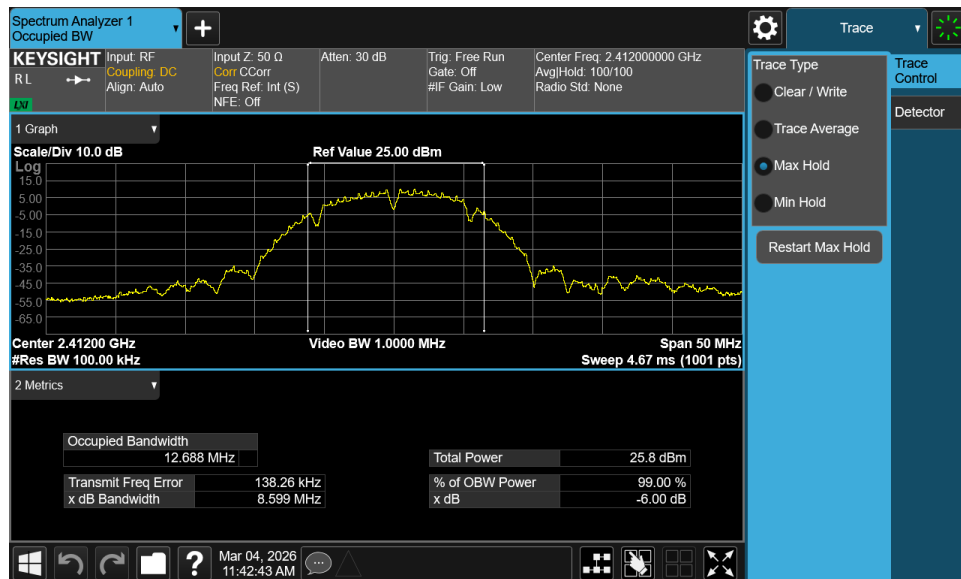
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FCC ID: A3LSMF776U IC: 649E-SMF776W	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
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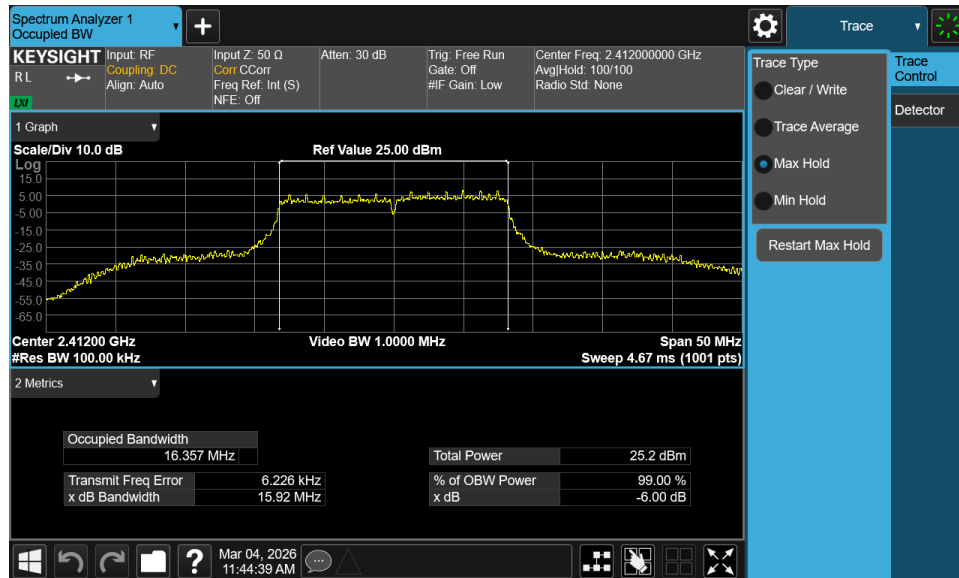
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FCC ID: A3LSMF776U IC: 649E-SMF776W	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
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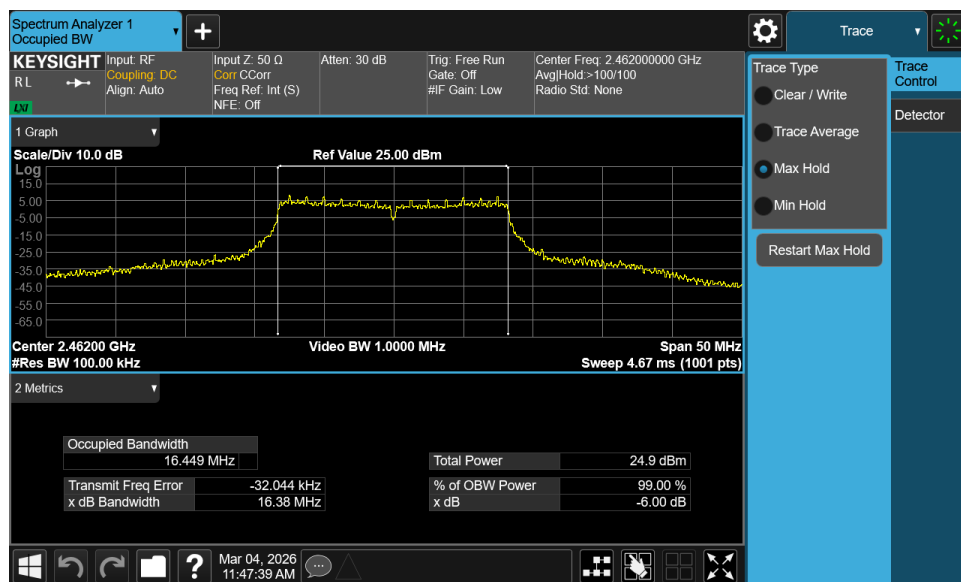
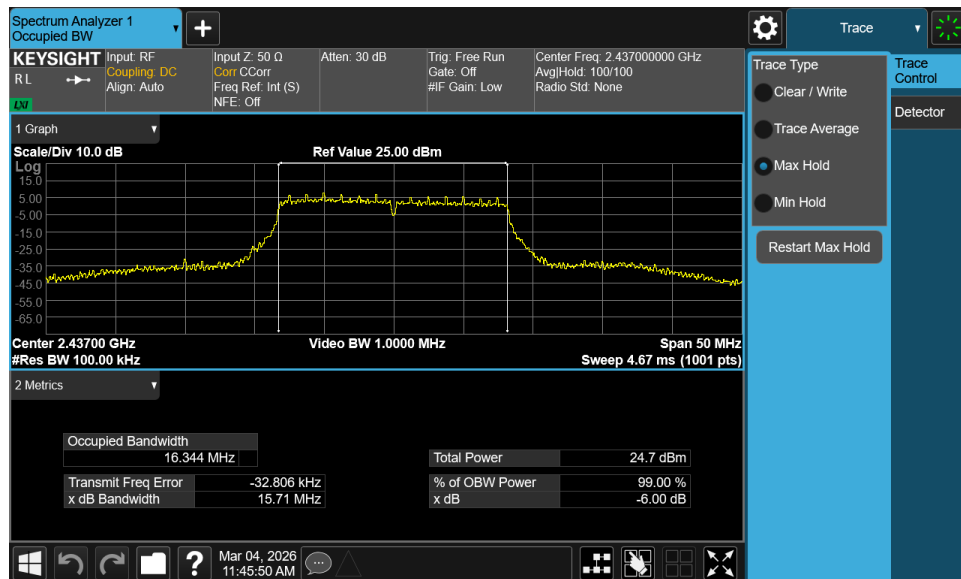


Plot 7-15. 6dB Bandwidth Plot MIMO ANT2 (802.11b – Ch. 11)

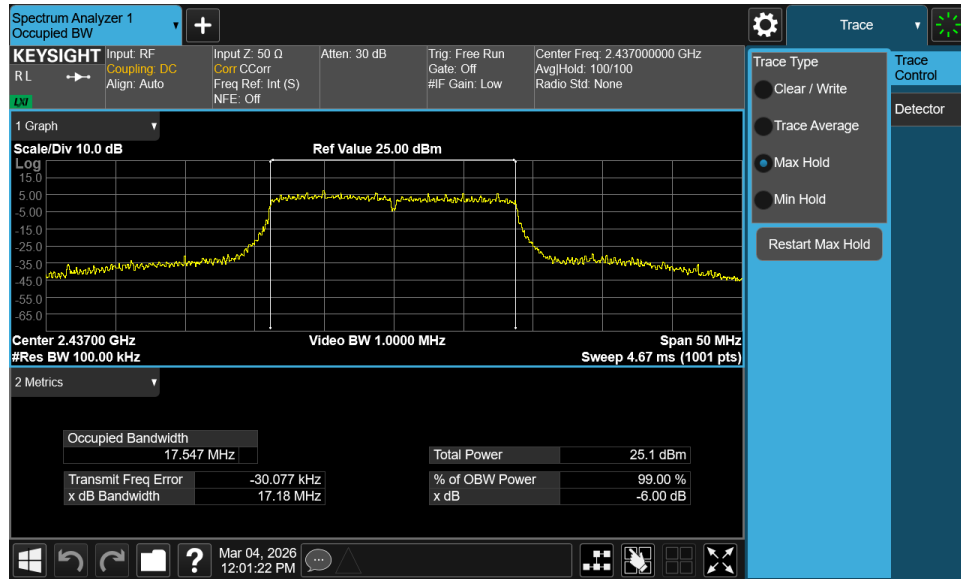
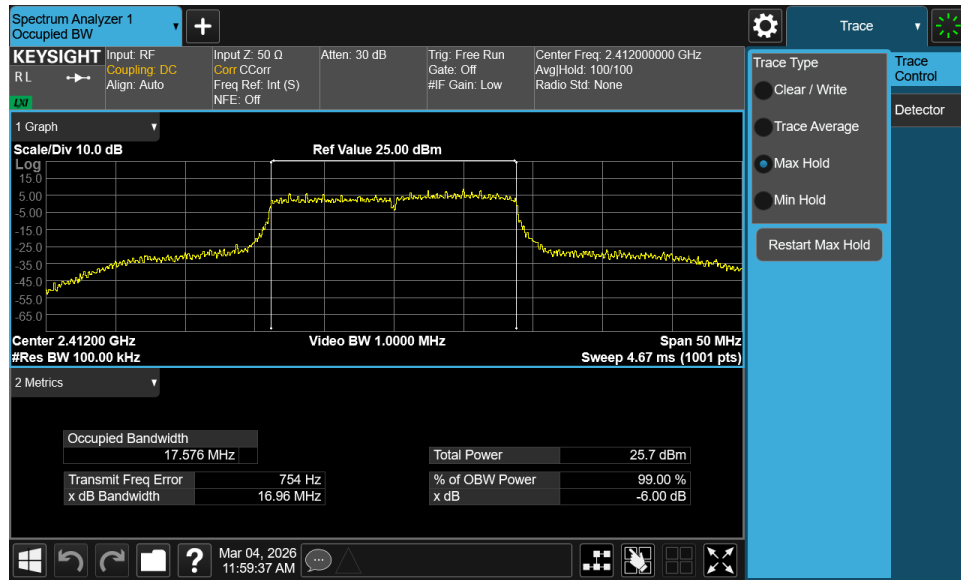


Plot 7-16. 6dB Bandwidth Plot MIMO ANT2 (802.11g – Ch. 1)

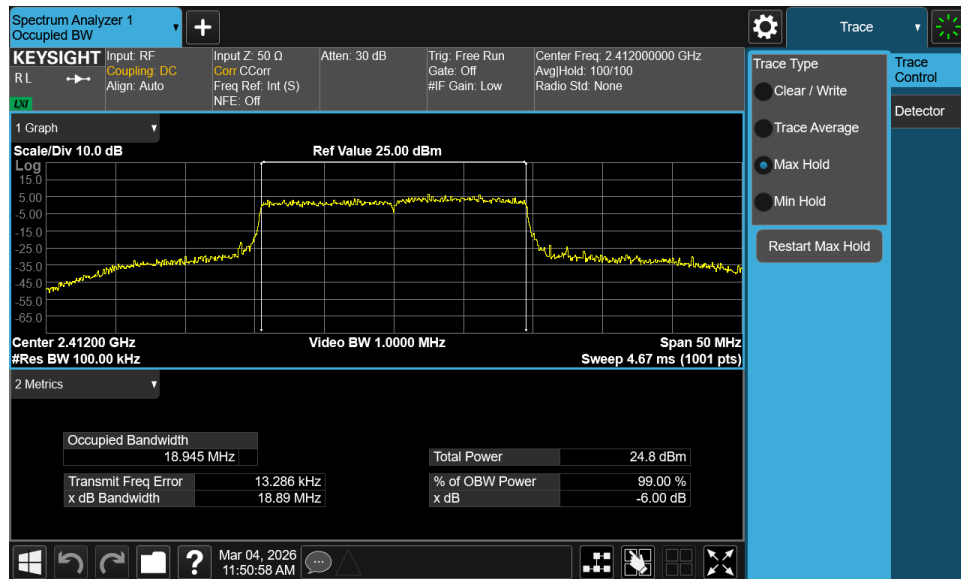
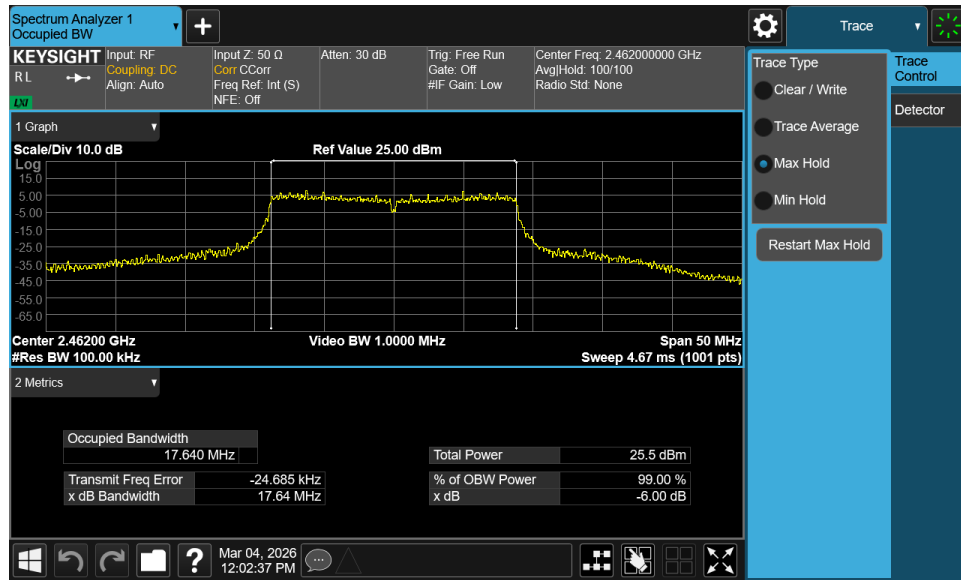
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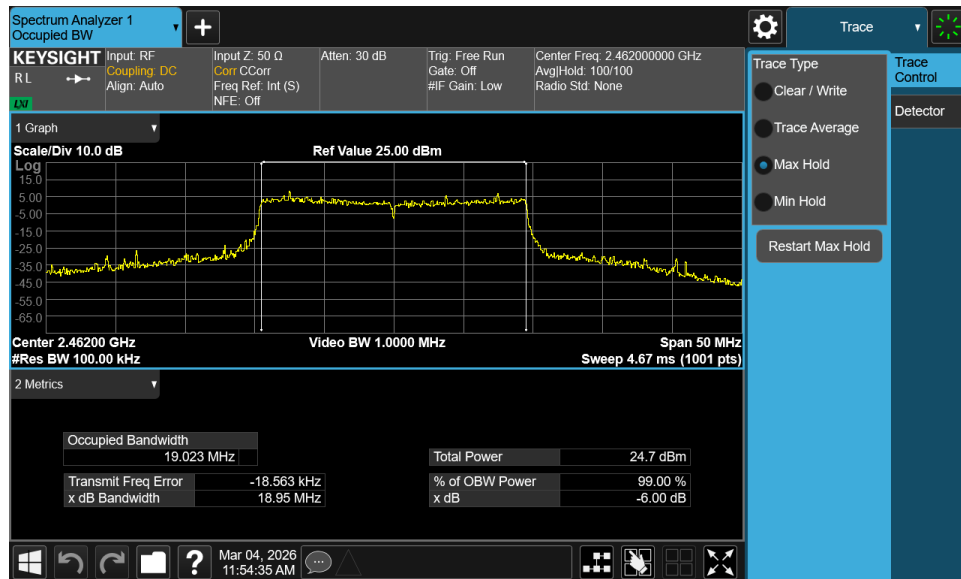
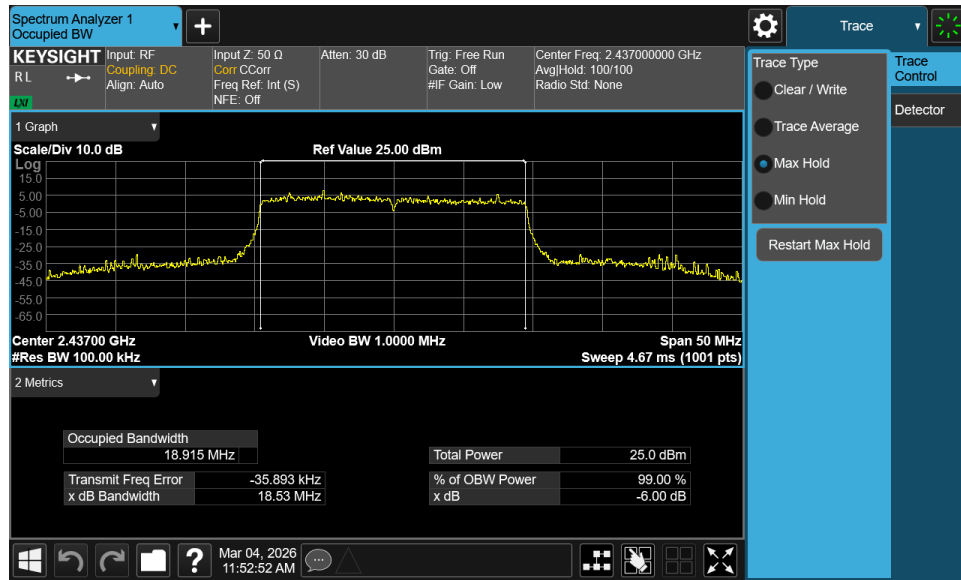
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FCC ID: A3LSMF776U IC: 649E-SMF776W	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
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FCC ID: A3LSMF776U IC: 649E-SMF776W	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-14-R1.A3L	 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 95		



FCC ID: A3LSMF776U IC: 649E-SMF776W	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
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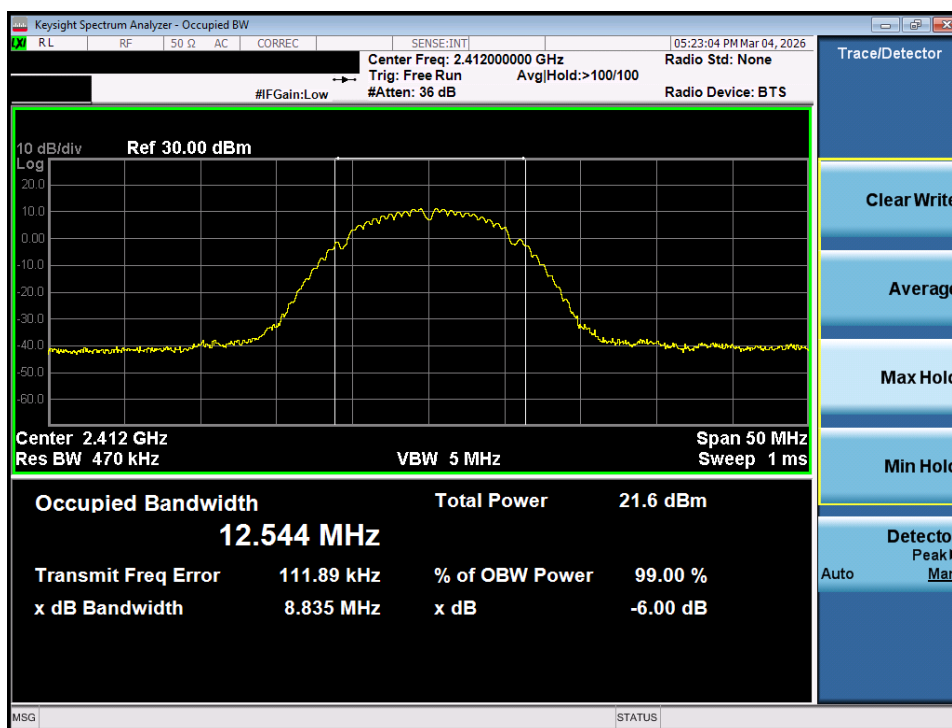
OBW Measurements

	Frequency [MHz]	Channel	802.11 MODE	Antenna-1 OBW [MHz]	Antenna-2 OBW [MHz]
WLAN 2.4GHz	2412	1	b	12.544	12.638
	2437	6	b	12.768	12.785
	2462	11	b	12.896	13.413
	2412	1	g	16.532	16.518
	2437	6	g	16.564	16.564
	2462	11	g	16.590	16.685
	2412	1	n	17.684	17.665
	2437	6	n	17.715	17.669
	2462	11	n	17.756	17.816
	2412	1	be SU	19.024	19.031
	2437	6	be SU	19.059	19.056
	2462	11	be SU	19.090	19.161

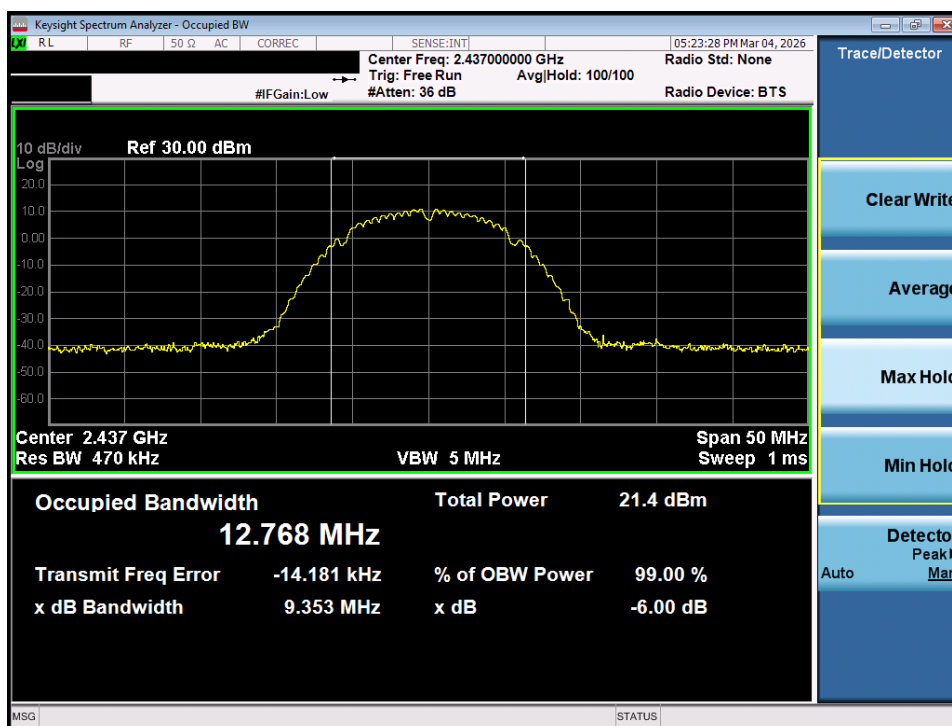
Table 7-3. Conducted OBW Measurements MIMO

FCC ID: A3LSMF776U IC: 649E-SMF776W	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
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OBW Measurements

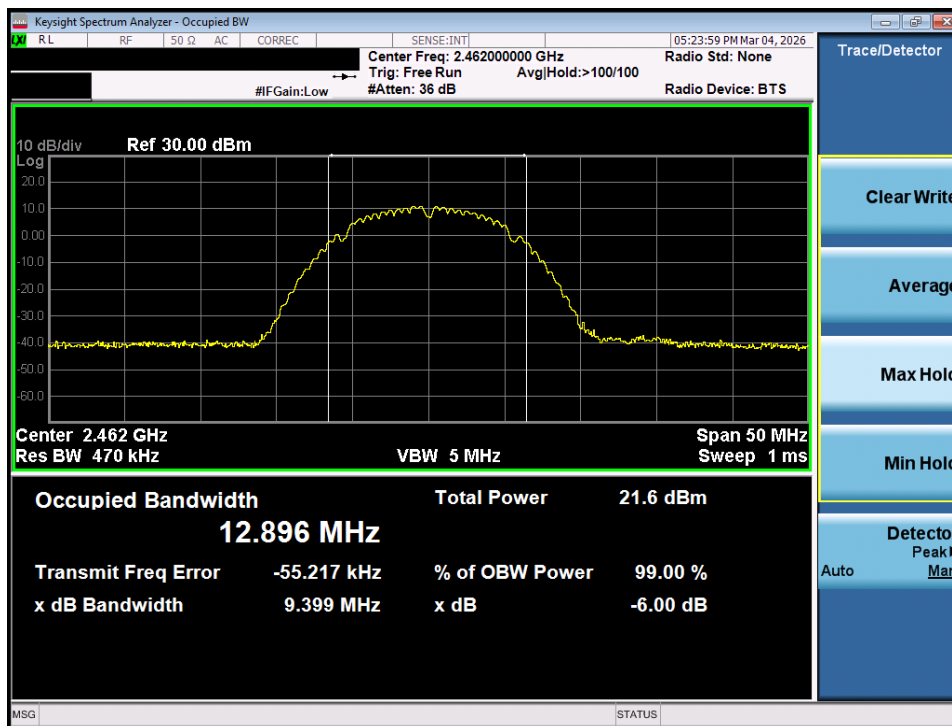


Plot 7-25. OBW Plot MIMO ANT1 (802.11b – Ch. 1)

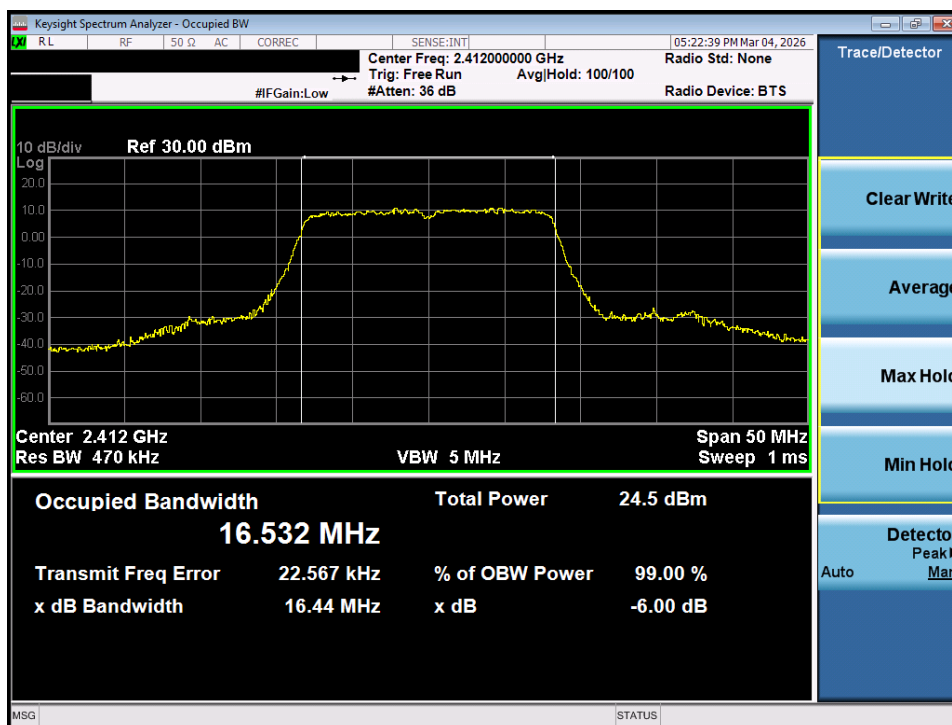


Plot 7-26. OBW Plot MIMO ANT1 (802.11b – Ch. 6)

FCC ID: A3LSMF776U IC: 649E-SMF776W	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
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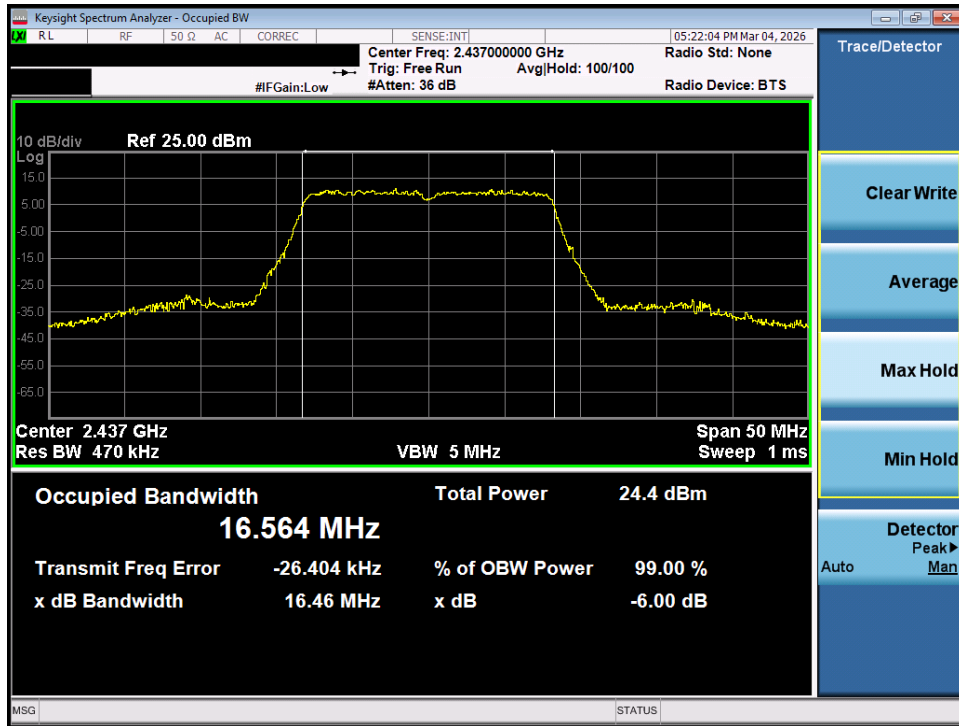


Plot 7-27. OBW Plot SISO ANT1 (802.11b – Ch. 11)

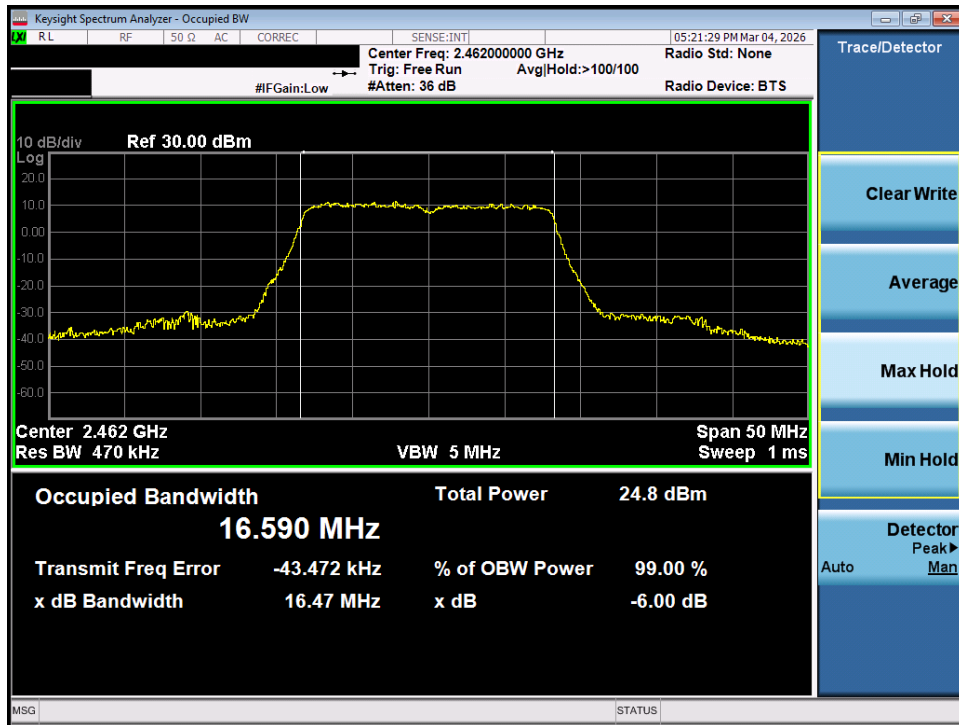


Plot 7-28. OBW Plot MIMO ANT1 (802.11g – Ch. 1)

FCC ID: A3LSMF776U IC: 649E-SMF776W	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-14-R1.A3L	 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 34 of 95

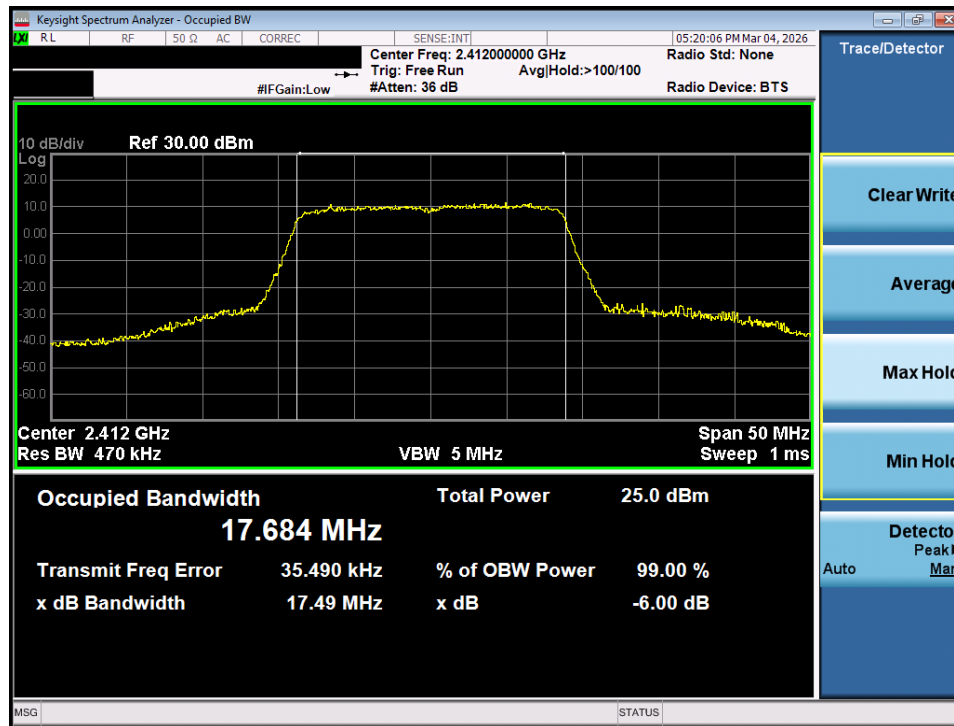


Plot 7-29. OBW Plot MIMO ANT1 (802.11g – Ch. 6)

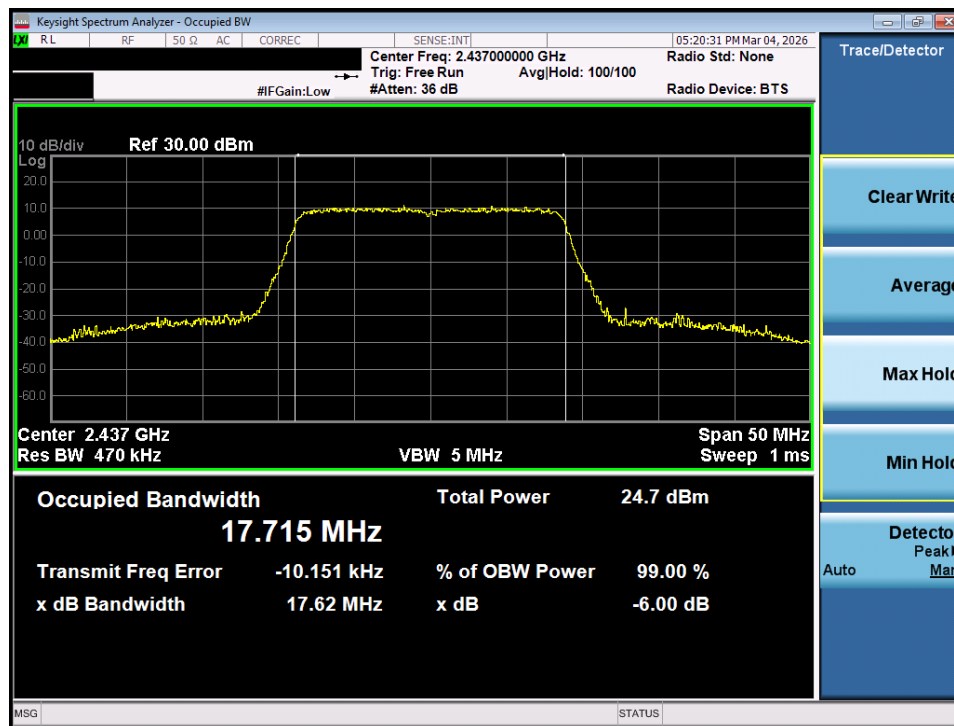


Plot 7-30. OBW Plot MIMO ANT1 (802.11g – Ch. 11)

FCC ID: A3LSMF776U IC: 649E-SMF776W	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-14-R1.A3L	 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 35 of 95

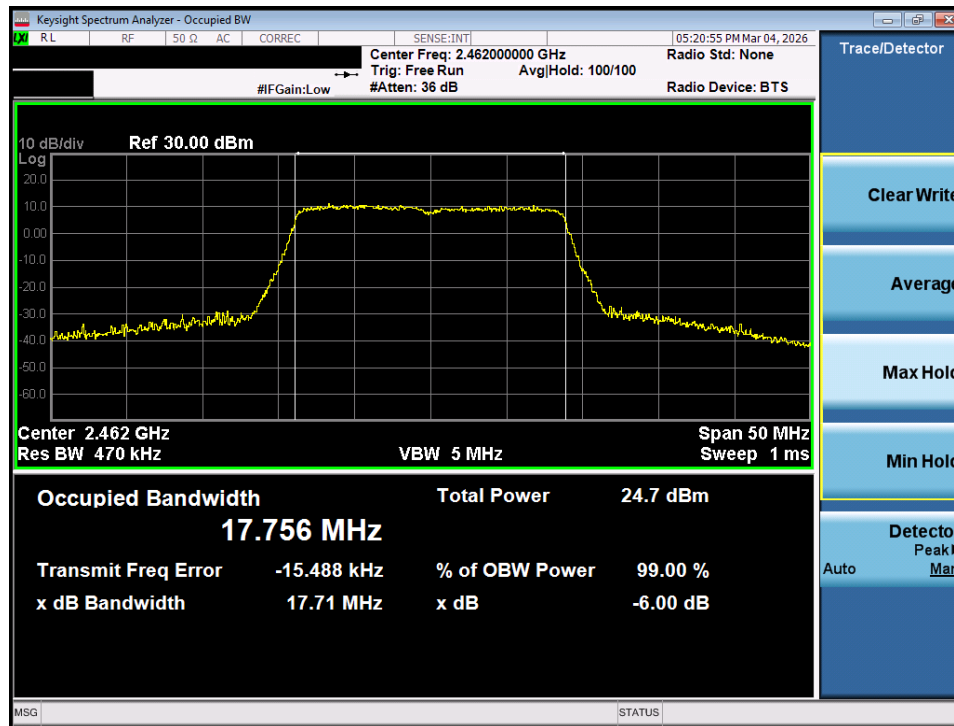


Plot 7-31. OBW Plot MIMO ANT1 (802.11n/ac (2.4GHz) – Ch. 1)

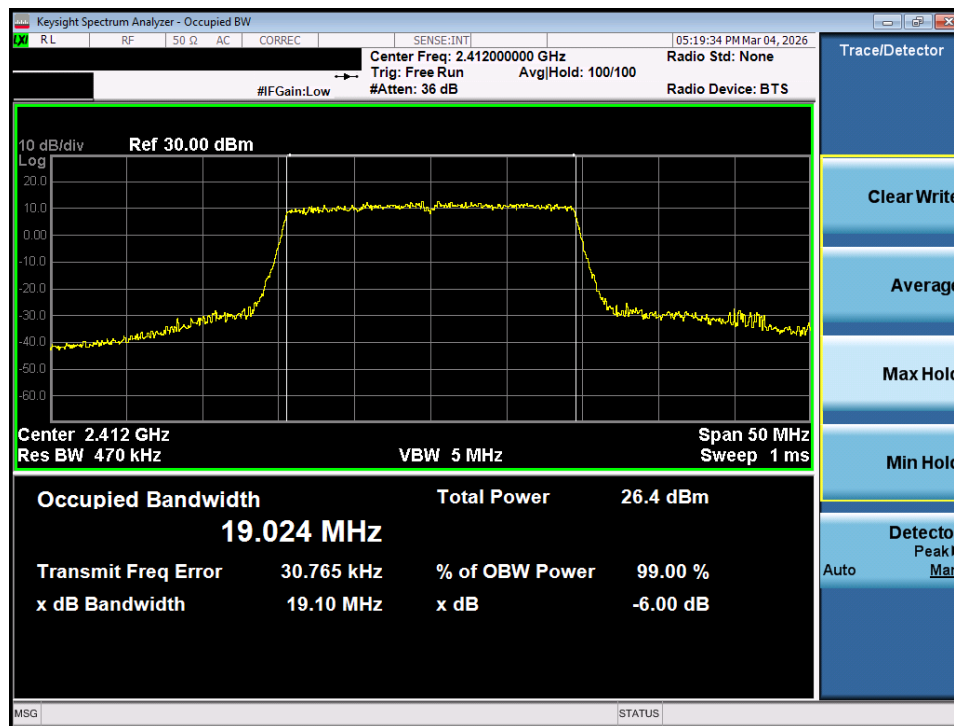


Plot 7-32. OBW Plot MIMO ANT1 (802.11n/ac (2.4GHz) – Ch. 6)

FCC ID: A3LSMF776U IC: 649E-SMF776W	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-14-R1.A3L	 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 36 of 95

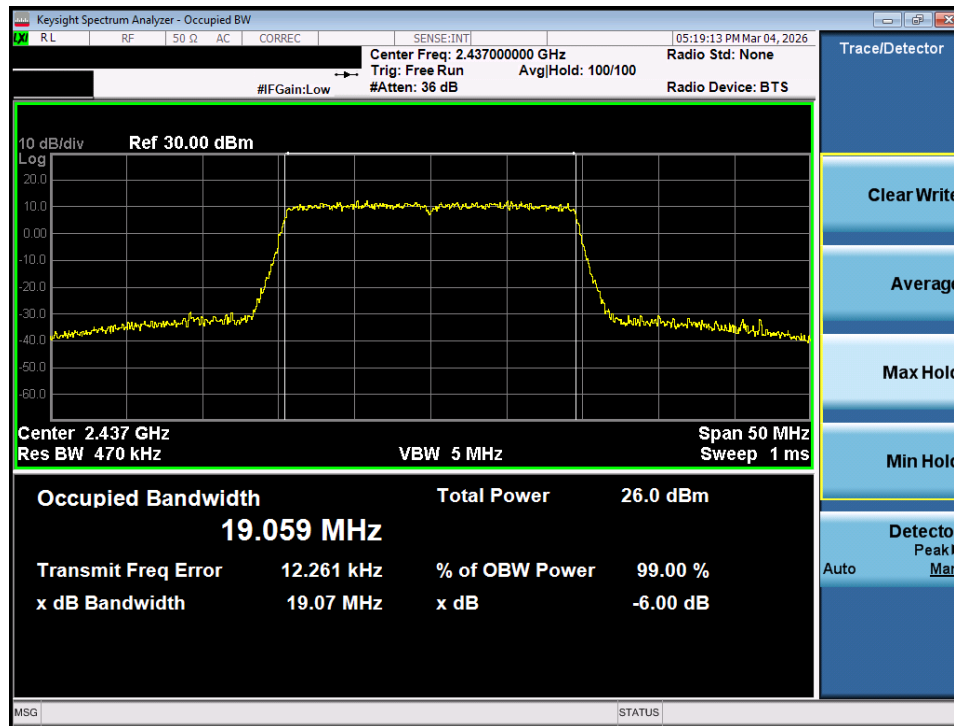


Plot 7-33. OBW Plot MIMO ANT1 (802.11n/ac (2.4GHz) – Ch. 11)

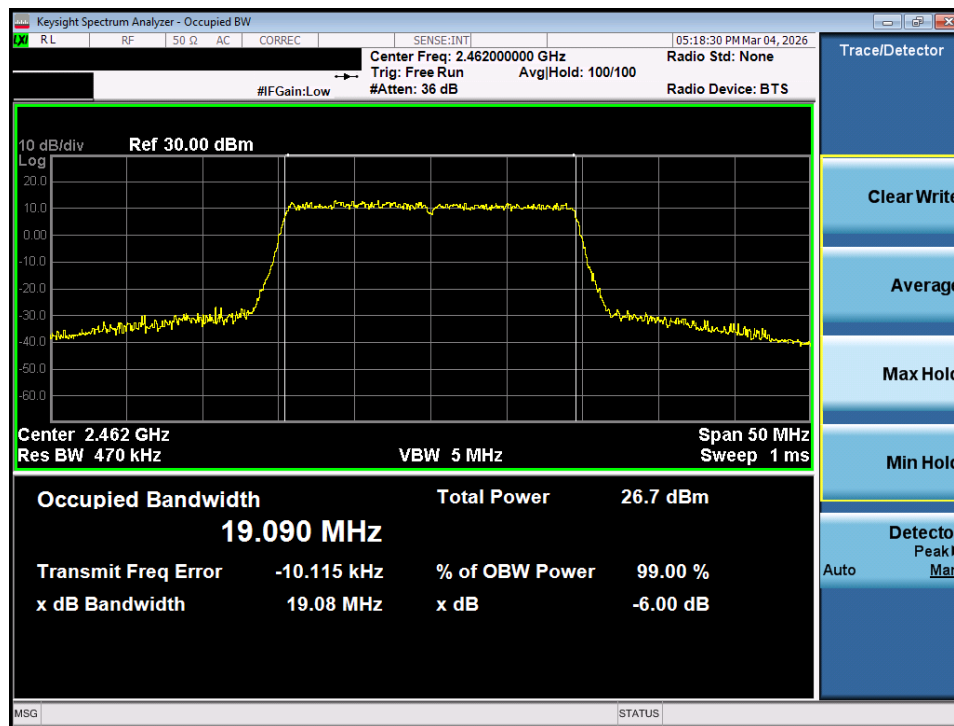


Plot 7-34. OBW Plot MIMO ANT1 (802.11ax/be (2.4GHz) – Ch. 1)

FCC ID: A3LSMF776U IC: 649E-SMF776W	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-14-R1.A3L	 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 37 of 95

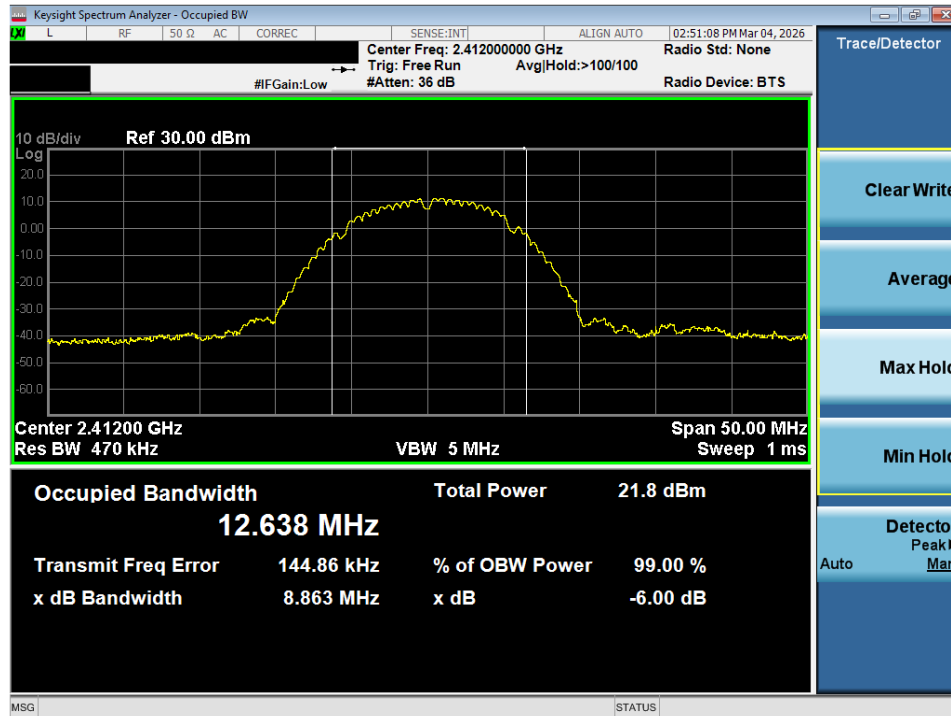


Plot 7-35. OBW Plot MIMO ANT1 (802.11ax/be (2.4GHz) – Ch. 6)

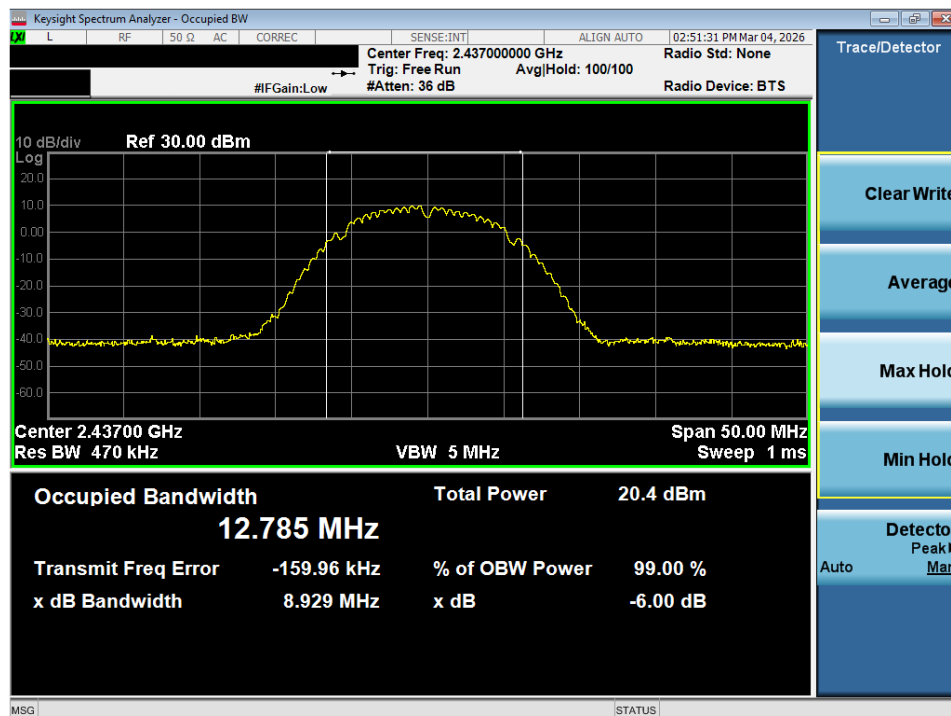


Plot 7-36. OBW Plot MIMO ANT1 (802.11ax/be (2.4GHz) – Ch. 11)

FCC ID: A3LSMF776U IC: 649E-SMF776W	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-14-R1.A3L	 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 38 of 95

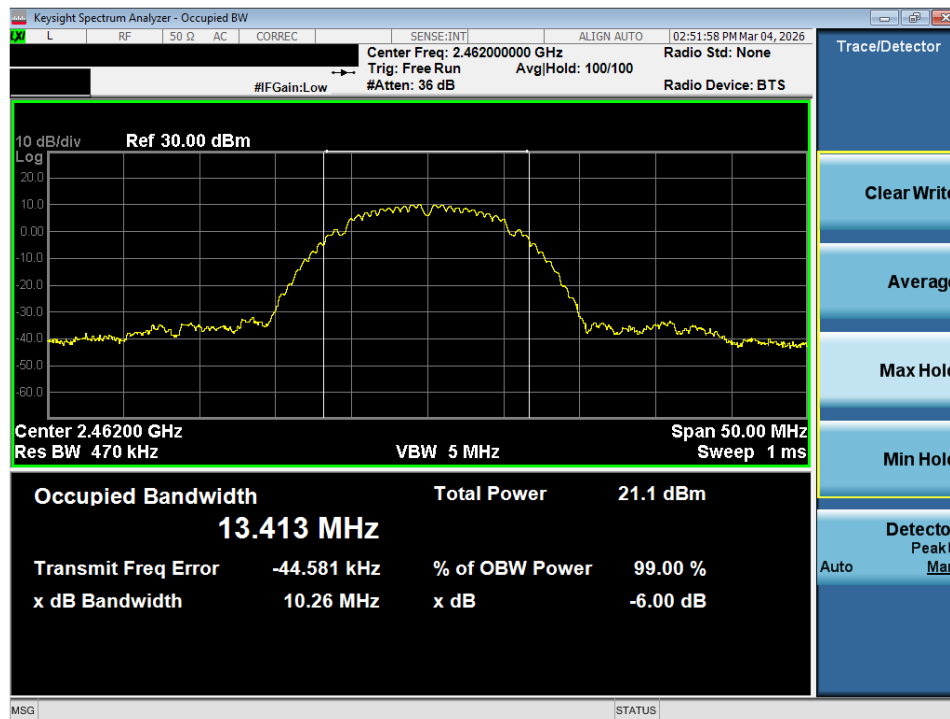


Plot 7-37. OBW Plot MIMO ANT2 (802.11b – Ch. 1)

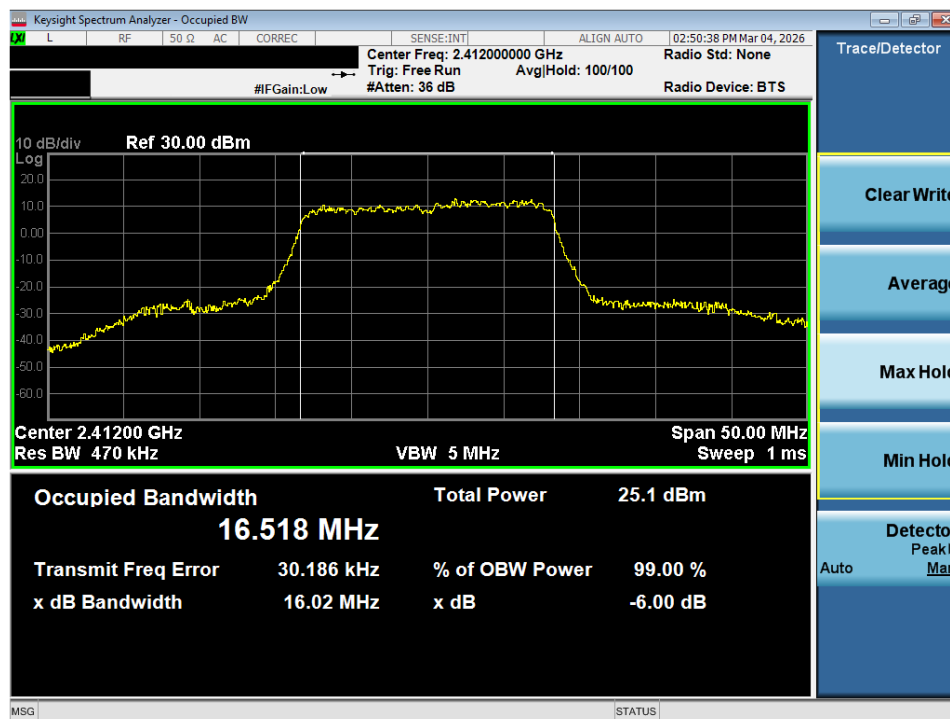


Plot 7-38. OBW Plot MIMO ANT2 (802.11b – Ch. 6)

FCC ID: A3LSMF776U IC: 649E-SMF776W	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
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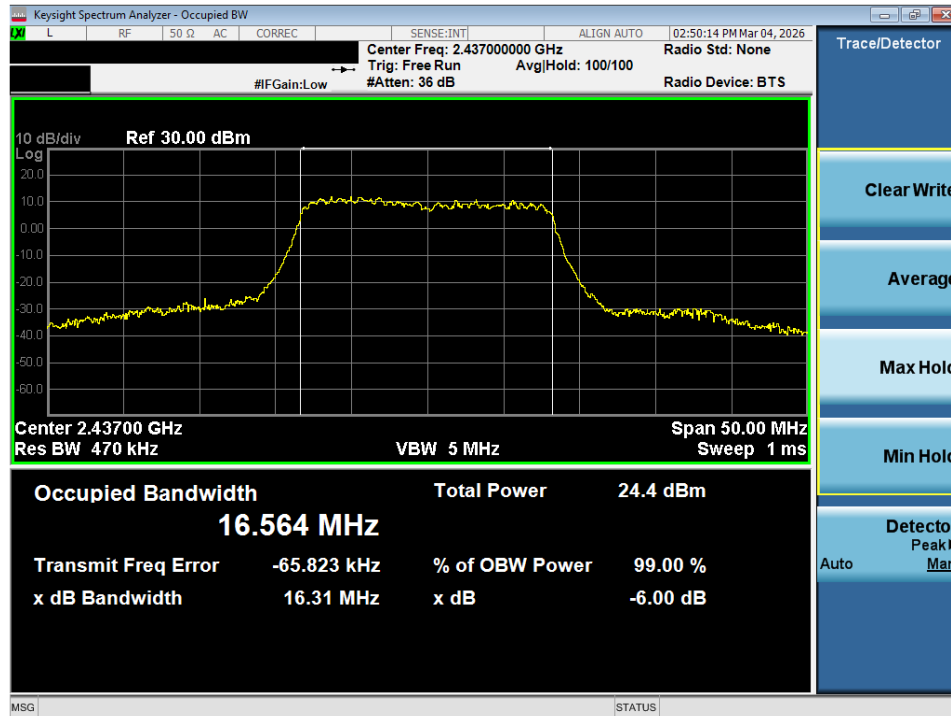


Plot 7-39. OBW Plot MIMO ANT2 (802.11b – Ch. 11)



Plot 7-40. OBW Plot MIMO ANT2 (802.11g – Ch. 1)

FCC ID: A3LSMF776U IC: 649E-SMF776W	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
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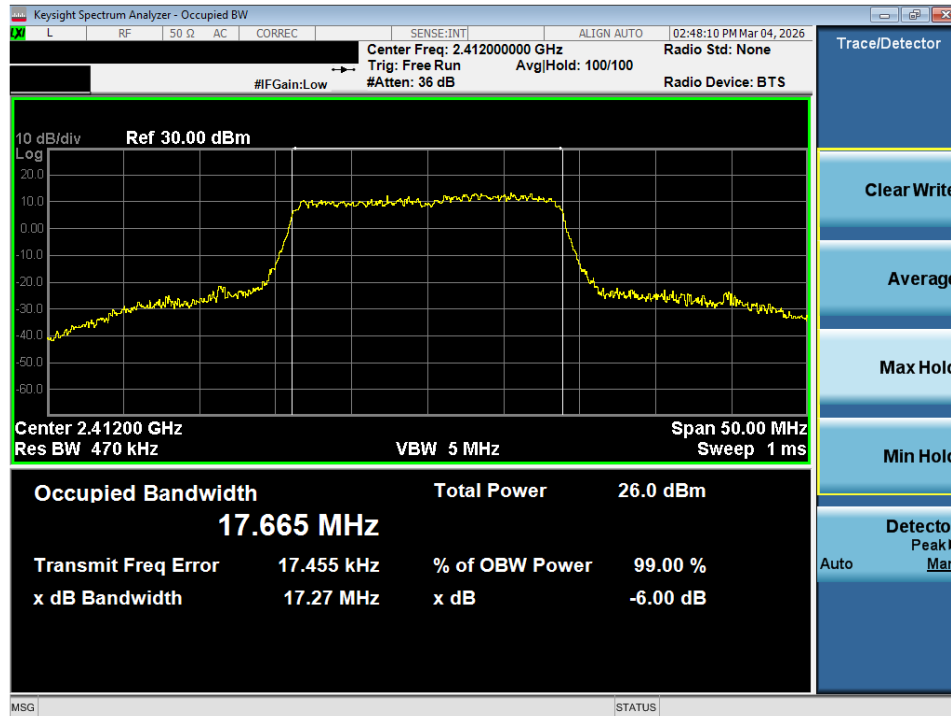


Plot 7-41. OBW Plot MIMO ANT2 (802.11g – Ch. 6)

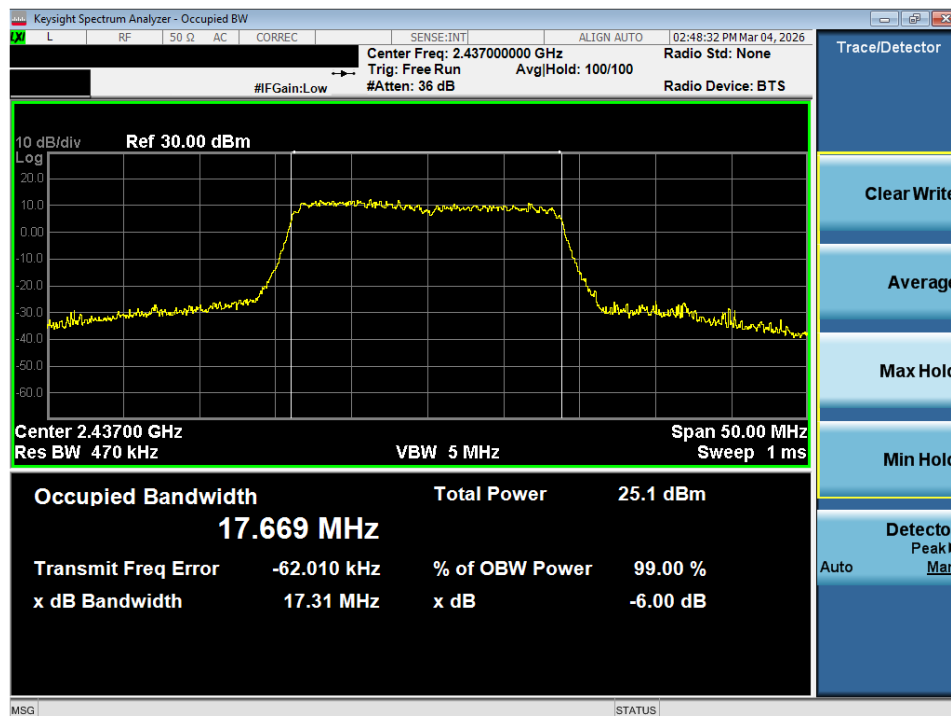


Plot 7-42. OBW Plot MIMO ANT2 (802.11g – Ch. 11)

FCC ID: A3LSMF776U IC: 649E-SMF776W	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-14-R1.A3L	 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 41 of 95		

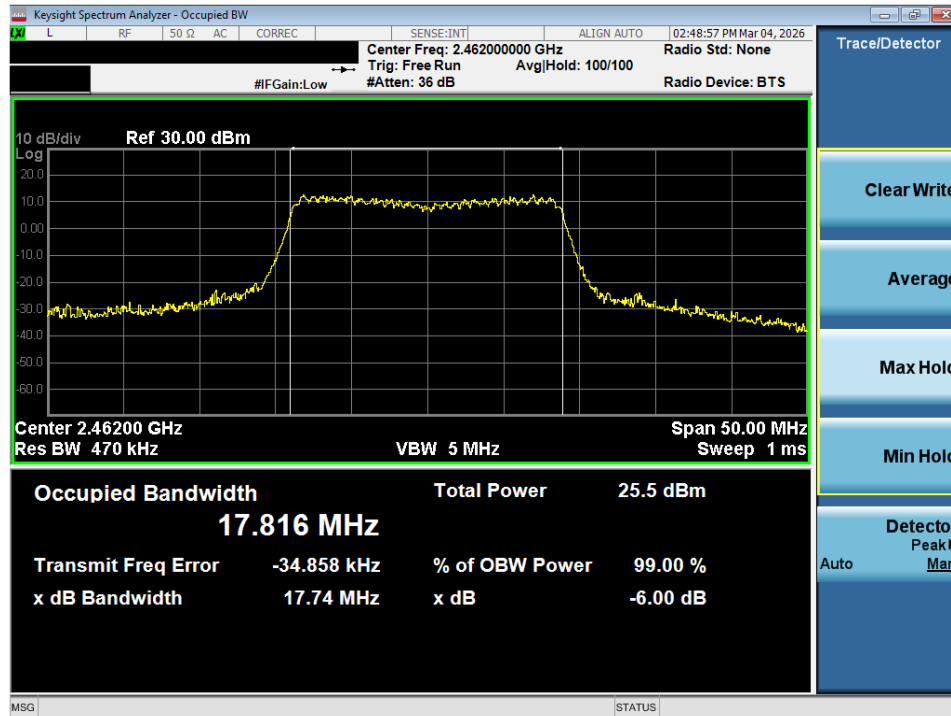


Plot 7-43. OBW Plot MIMO ANT2 (802.11n/ac (2.4GHz) – Ch. 1)

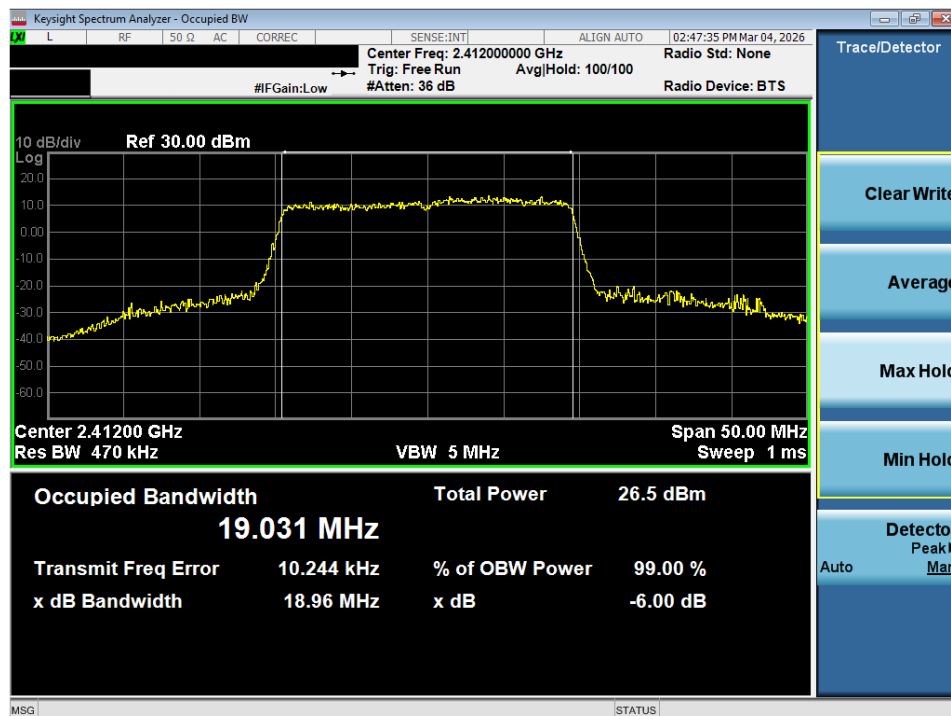


Plot 7-44. OBW Plot MIMO ANT2 (802.11n/ac (2.4GHz) – Ch. 6)

FCC ID: A3LSMF776U IC: 649E-SMF776W	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-14-R1.A3L	 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 42 of 95

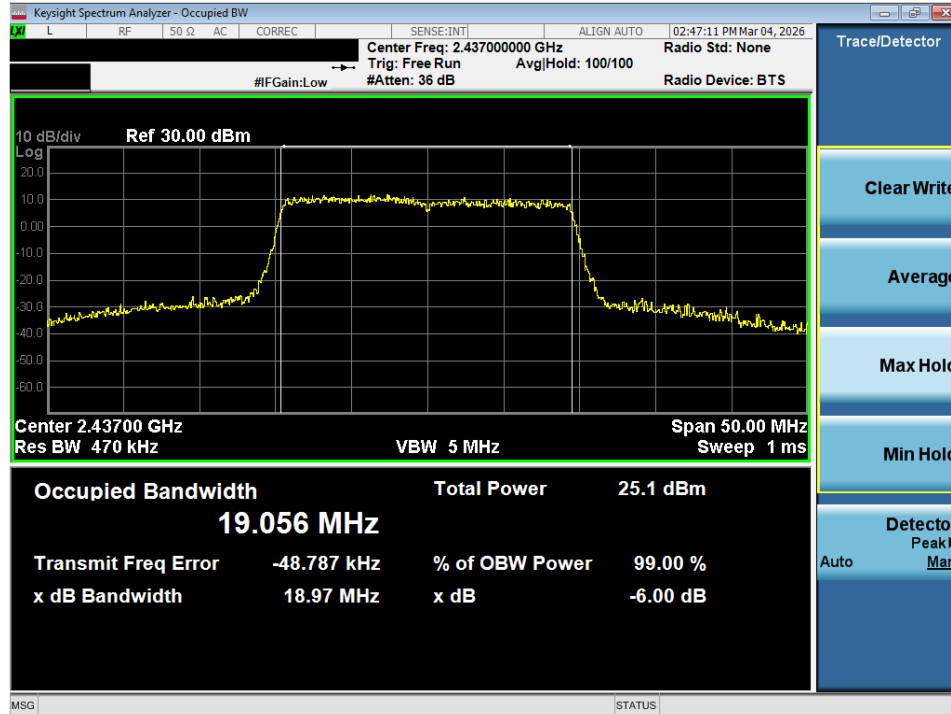


Plot 7-45. OBW Plot MIMO ANT2 (802.11n/ac (2.4GHz) – Ch. 11)

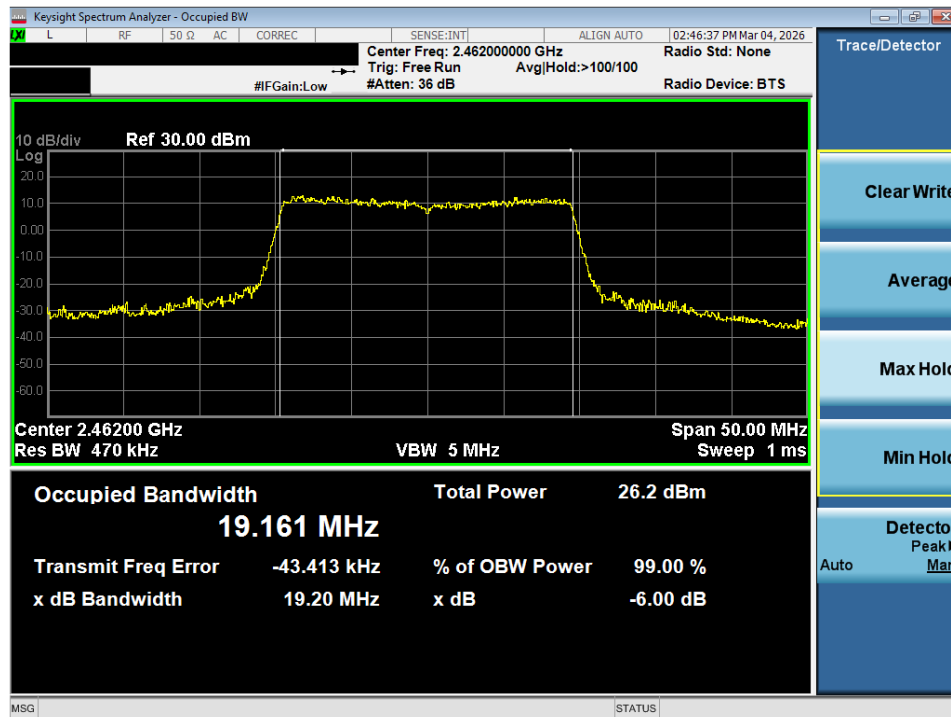


Plot 7-46. OBW Plot MIMO ANT2 (802.11ax/be (2.4GHz) – Ch. 1)

FCC ID: A3LSMF776U IC: 649E-SMF776W	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-14-R1.A3L	 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 43 of 95



Plot 7-47. OBW Plot MIMO ANT2 (802.11ax/be (2.4GHz) – Ch. 6)



Plot 7-48. OBW Plot MIMO ANT2 (802.11ax/be (2.4GHz) – Ch. 11)

FCC ID: A3LSMF776U IC: 649E-SMF776W	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-14-R1.A3L	 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 44 of 95

7.3 Output Power Measurement

Test Overview and Limits

A transmitter antenna terminal of EUT is connected to the input of an RF power sensor. Measurement is made using a broadband power meter capable of making peak and average measurements while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies.

The maximum permissible conducted output power is 1 Watt per 15.247. The e.i.r.p. shall not exceed 4 W per RSS-247.

Test Procedure Used

ANSI C63.10:2020 – Section 11.9.1.2 PKPM1 Peak Power Method
ANSI C63.10:2020 – Section 11.9.2.3.2 Method AVGPM-G
ANSI C63.10:2020 – Section 14.5.2.3 Measure-and-Sum Technique

Test Settings

Method PKPM1 (Peak Power Measurement)

Peak 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 pulse sensor employs a VBW = 50MHz so this method was only used for signals whose DTS bandwidth was less than or equal to 50MHz.

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 diagrams below.

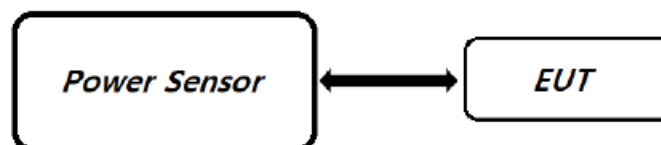


Figure 7-2. Test Instrument & Measurement Setup for Power Meter Measurements

Test Notes

None.

FCC ID: A3LSMF776U IC: 649E-SMF776W	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-14-R1.A3L	 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 45 of 95		

2.4GHz WIFI (20MHz 802.11b MIMO)						Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
Freq [MHz]	Channel	Detector	Conducted Power [dBm]								
			ANT1	ANT2	MIMO						
2412	1	Average	19.46	19.63	22.56	30.00	-7.44	-3.74	18.82	36.02	-17.20
2437	6		19.55	19.88	22.73	30.00	-7.27	-3.74	18.99	36.02	-17.03
2462	11		19.71	19.72	22.72	30.00	-7.28	-3.74	18.98	36.02	-17.04
2412	1	Peak	23.23	23.53	26.39	30.00	-3.61	-3.74	22.65	36.02	-13.37
2437	6		23.29	23.65	26.48	30.00	-3.52	-3.74	22.74	36.02	-13.28
2462	11		23.45	23.78	26.63	30.00	-3.37	-3.74	22.88	36.02	-13.14

Table 7-4. Conducted Output Power Measurements MIMO (802.11b)

2.4GHz WIFI (20MHz 802.11g MIMO)						Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
Freq [MHz]	Channel	Detector	Conducted Power [dBm]								
			ANT1	ANT2	MIMO						
2412	1	Average	17.74	17.78	20.77	30.00	-9.23	-3.74	17.03	36.02	-18.99
2437	6		17.32	17.76	20.56	30.00	-9.44	-3.74	16.82	36.02	-19.20
2462	11		17.58	17.69	20.65	30.00	-9.35	-3.74	16.91	36.02	-19.11
2412	1	Peak	25.54	25.32	28.44	30.00	-1.56	-3.74	24.70	36.02	-11.32
2437	6		25.30	25.30	28.31	30.00	-1.69	-3.74	24.57	36.02	-11.45
2462	11		25.10	25.41	28.27	30.00	-1.73	-3.74	24.52	36.02	-11.50

Table 7-5. Conducted Output Power Measurements MIMO (802.11g)

2.4GHz WIFI (20MHz 802.11n MIMO)						Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
Freq [MHz]	Channel	Detector	Conducted Power [dBm]								
			ANT1	ANT2	MIMO						
2412	1	Average	17.96	17.99	20.99	30.00	-9.01	-3.74	17.25	36.02	-18.77
2437	6		17.60	17.99	20.81	30.00	-9.19	-3.74	17.07	36.02	-18.95
2462	11		17.88	17.99	20.95	30.00	-9.05	-3.74	17.21	36.02	-18.81
2412	1	Peak	25.59	25.51	28.56	30.00	-1.44	-3.74	24.82	36.02	-11.20
2437	6		25.57	25.39	28.49	30.00	-1.51	-3.74	24.75	36.02	-11.27
2462	11		25.20	25.52	28.37	30.00	-1.63	-3.74	24.63	36.02	-11.39

Table 7-6. Conducted Output Power Measurements MIMO (802.11n)

2.4GHz WIFI (20MHz 802.11ac MIMO)						Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
Freq [MHz]	Channel	Detector	Conducted Power [dBm]								
			ANT1	ANT2	MIMO						
2412	1	Average	17.96	17.99	20.99	30.00	-9.01	-3.74	17.25	36.02	-18.77
2437	6		17.61	17.99	20.81	30.00	-9.19	-3.74	17.07	36.02	-18.95
2462	11		17.87	17.99	20.94	30.00	-9.06	-3.74	17.20	36.02	-18.82
2412	1	Peak	25.60	25.50	28.56	30.00	-1.44	-3.74	24.82	36.02	-11.20
2437	6		25.42	25.53	28.48	30.00	-1.52	-3.74	24.74	36.02	-11.28
2462	11		25.26	25.52	28.40	30.00	-1.60	-3.74	24.66	36.02	-11.36

Table 7-7. Conducted Output Power Measurements MIMO (802.11ac)

2.4GHz WIFI (20MHz 802.11ax MIMO)						Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
Freq [MHz]	Channel	Detector	Conducted Power [dBm]								
			ANT1	ANT2	MIMO						
2412	1	Average	17.87	17.96	20.93	30.00	-9.07	-3.74	17.19	36.02	-18.83
2437	6		17.46	17.97	20.73	30.00	-9.27	-3.74	16.99	36.02	-19.03
2462	11		17.79	17.96	20.89	30.00	-9.11	-3.74	17.15	36.02	-18.87
2412	1	Peak	25.90	25.67	28.80	30.00	-1.20	-3.74	25.05	36.02	-10.97
2437	6		25.56	25.53	28.55	30.00	-1.45	-3.74	24.81	36.02	-11.21
2462	11		25.24	25.53	28.40	30.00	-1.60	-3.74	24.66	36.02	-11.36

Table 7-8. Conducted Output Power Measurements MIMO (802.11ax)

2.4GHz WIFI (20MHz 802.11be MIMO)						Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
Freq [MHz]	Channel	Detector	Conducted Power [dBm]								
			ANT1	ANT2	MIMO						
2412	1	Average	17.83	17.95	20.90	30.00	-9.10	-3.74	17.16	36.02	-18.86
2437	6		17.45	17.93	20.71	30.00	-9.29	-3.74	16.97	36.02	-19.05
2462	11		17.77	17.96	20.87	30.00	-9.13	-3.74	17.13	36.02	-18.89
2412	1	Peak	25.76	25.58	28.68	30.00	-1.32	-3.74	24.94	36.02	-11.08
2437	6		25.61	25.20	28.42	30.00	-1.58	-3.74	24.68	36.02	-11.34
2462	11		25.42	25.56	28.50	30.00	-1.50	-3.74	24.76	36.02	-11.26

Table 7-9. Conducted Output Power Measurements MIMO (802.11be)

FCC ID: A3LSMF776U IC: 649E-SMF776W	MEASUREMENT REPORT (CERTIFICATION)		Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
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Note:

Per ANSI C63.10:2020 Section 14.5.2.3, the conducted powers at Antenna 1 and Antenna 2 were first measured separately during MIMO transmission as shown in the section above. The measured values were then summed in linear power units then converted back to dBm.

Sample MIMO Calculation:

At 2412MHz the average conducted output power was measured to be 19.46 dBm for Antenna 1 and 19.63 dBm for Antenna 2.

$$\text{Antenna 1} + \text{Antenna 2} = \text{MIMO}$$

$$(19.46 \text{ dBm} + 19.63 \text{ dBm}) = (88.328 \text{ mW} + 91.897 \text{ mW}) = 180.225 \text{ mW} = 22.56 \text{ dBm}$$

Sample e.i.r.p Calculation:

At 2412MHz, the average MIMO conducted power was calculated to be 22.56 dBm with directional gain of -3.74 dBi.

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

$$22.56 \text{ dBm} + -3.74 \text{ dBi} = 18.82 \text{ dBm}$$

FCC ID: A3LSMF776U IC: 649E-SMF776W	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-14-R1.A3L	 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 47 of 95

7.4 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 its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates are investigated and the worst-case configuration results are reported in this section.

The maximum permissible power spectral density shall not be greater than 8 dBm in any 3 kHz band.

Test Procedure Used

ANSI C63.10:2020 – Section 11.10.2 Method PKPSD

ANSI C63.10:2020 – Section 14.5.2.3 Measure-and-Sum Technique

Test Settings

1. Analyzer was set to the center frequency of the DTS channel under investigation
2. Span = 1.5 times the DTS channel bandwidth
3. RBW = 10kHz
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: A3LSMF776U IC: 649E-SMF776W	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-14-R1.A3L	 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 48 of 95

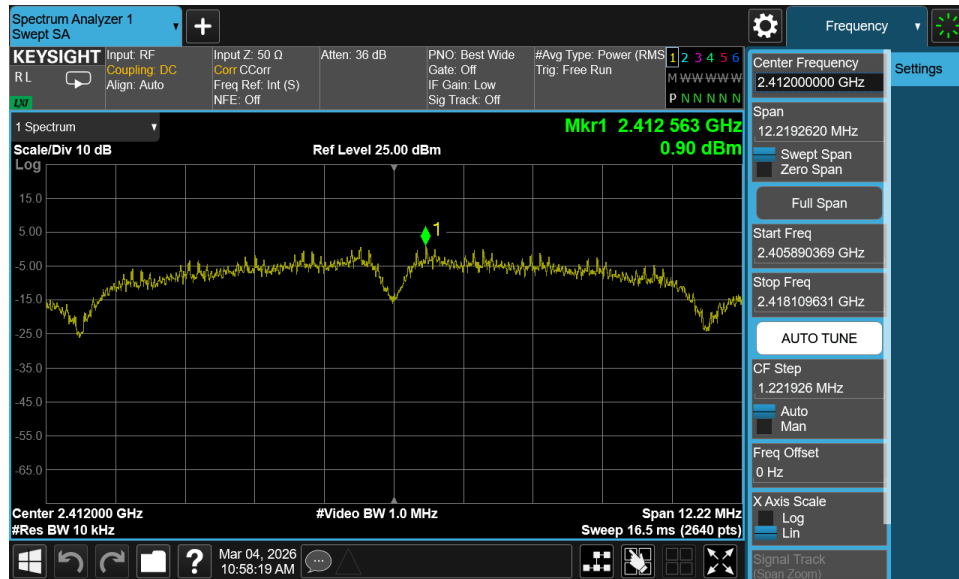
Power Spectral Density Measurements

Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	ANT 1 Power Spectral Density [dBm / 3kHz]	ANT 2 Power Spectral Density [dBm / 3kHz]	Summed MIMO Power Spectral Density [dBm / 3kHz]	Maximum Permissible Power Density [dBm / 3kHz]	Margin [dB]	Pass / Fail
2412	1	b	1	0.90	-0.42	3.30	8.00	-4.70	Pass
2437	6	b	1	0.89	-0.93	3.09	8.00	-4.91	Pass
2462	11	b	1	-0.32	-0.24	2.73	8.00	-5.27	Pass
2412	1	g	6	-1.64	-2.41	1.00	8.00	-7.00	Pass
2437	6	g	6	-2.00	-1.84	1.09	8.00	-6.91	Pass
2462	11	g	6	-1.47	-2.68	0.98	8.00	-7.02	Pass
2412	1	n / ac	6.5/7.2 (MCS0)	-1.87	-1.46	1.35	8.00	-6.65	Pass
2437	6	n / ac	6.5/7.2 (MCS0)	-1.90	-1.76	1.19	8.00	-6.81	Pass
2462	11	n / ac	6.5/7.2 (MCS0)	-1.58	-0.97	1.74	8.00	-6.26	Pass
2412	1	ax / be	6.5/7.2 (MCS0)	-2.57	-2.53	0.46	8.00	-7.54	Pass
2437	6	ax / be	6.5/7.2 (MCS0)	-2.83	-3.54	-0.16	8.00	-8.16	Pass
2462	11	ax / be	6.5/7.2 (MCS0)	-2.43	-2.50	0.54	8.00	-7.46	Pass

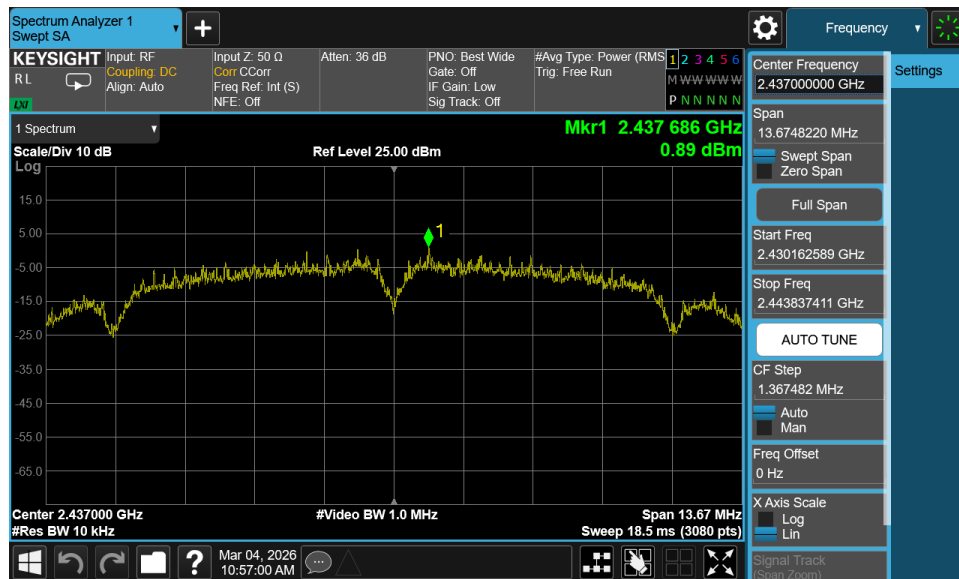
Table 7-10. Conducted Power Spectral Density Measurements MIMO

FCC ID: A3LSMF776U IC: 649E-SMF776W	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-14-R1.A3L		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 49 of 95

Power Spectral Density Measurements

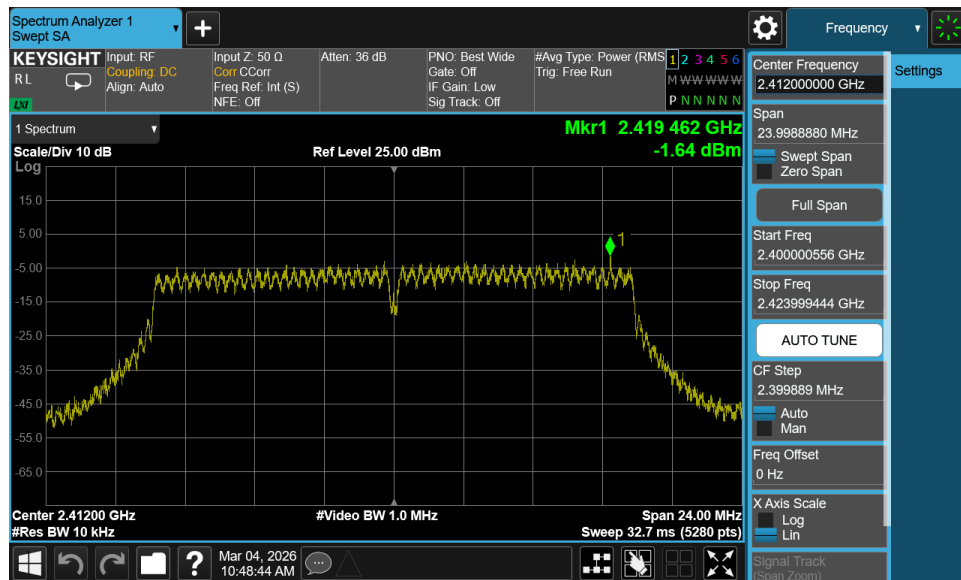
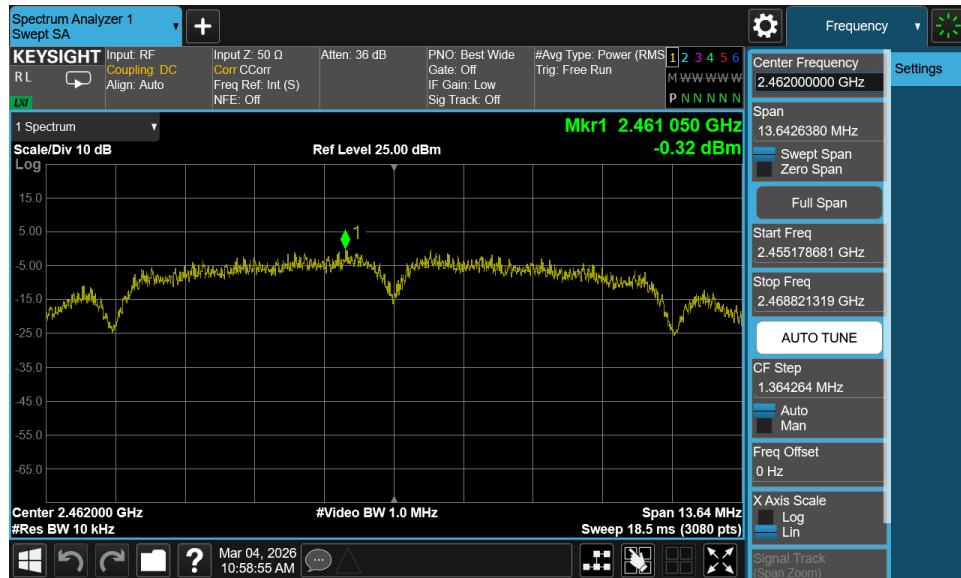


Plot 7-49. Power Spectral Density Plot MIMO ANT1 (802.11b – Ch. 1)

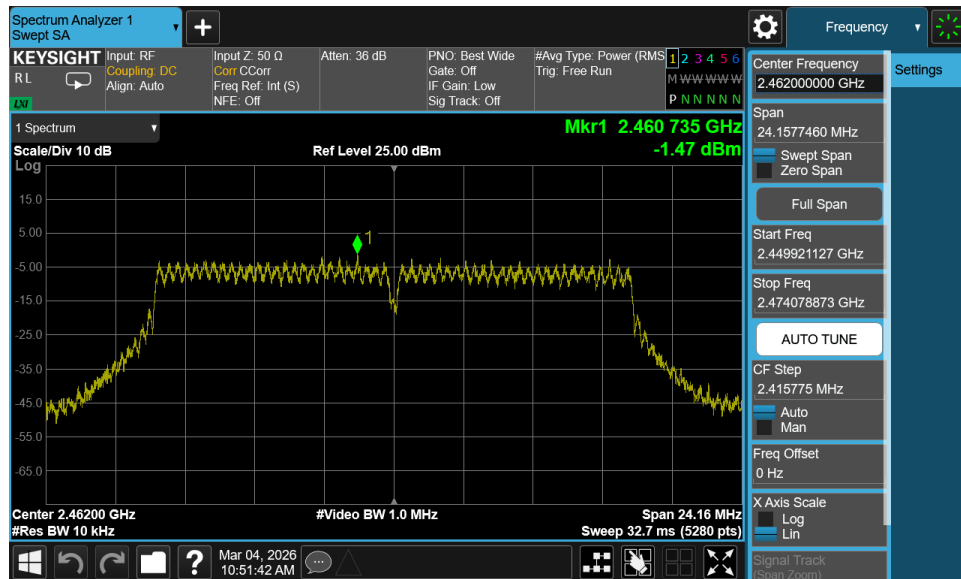
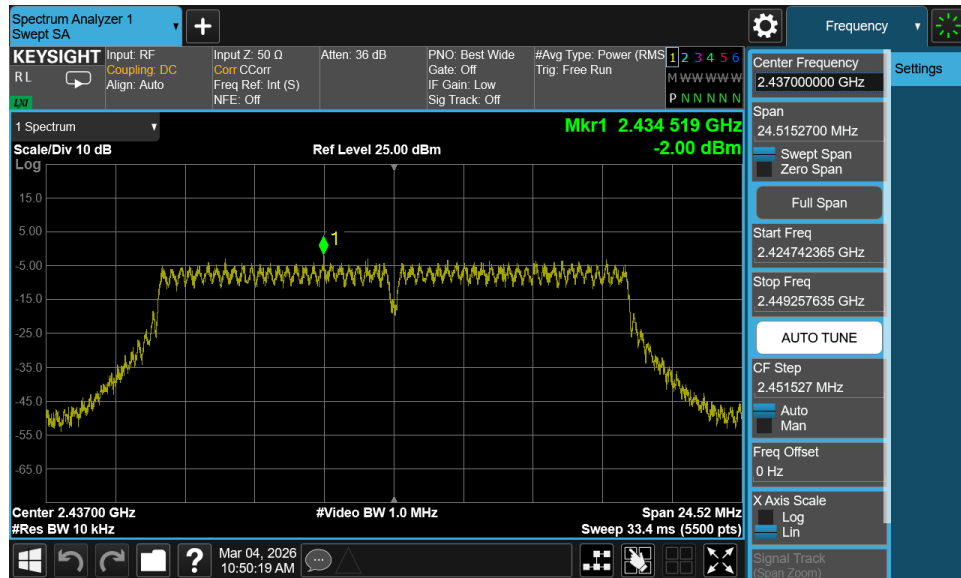


Plot 7-50. Power Spectral Density Plot MIMO ANT1 (802.11b – Ch. 6)

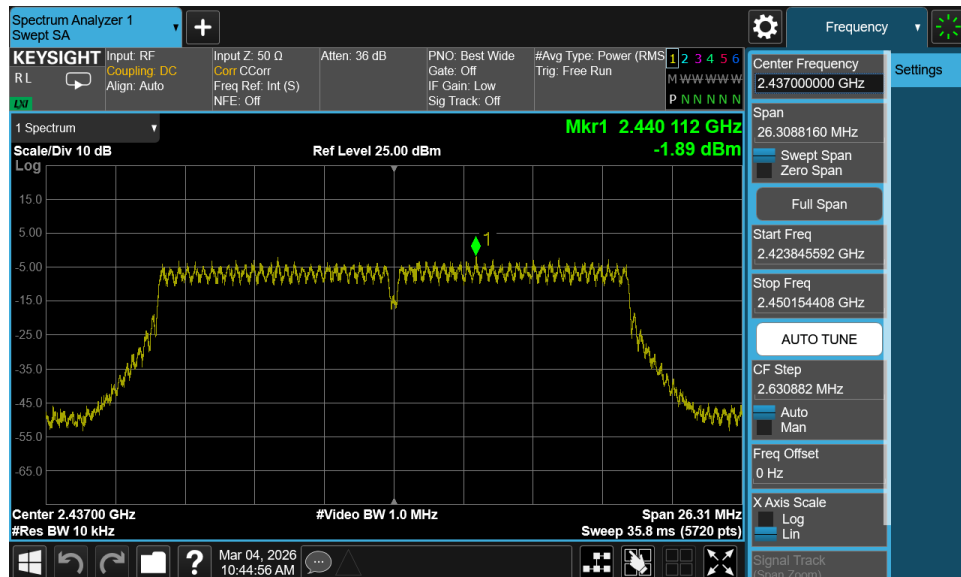
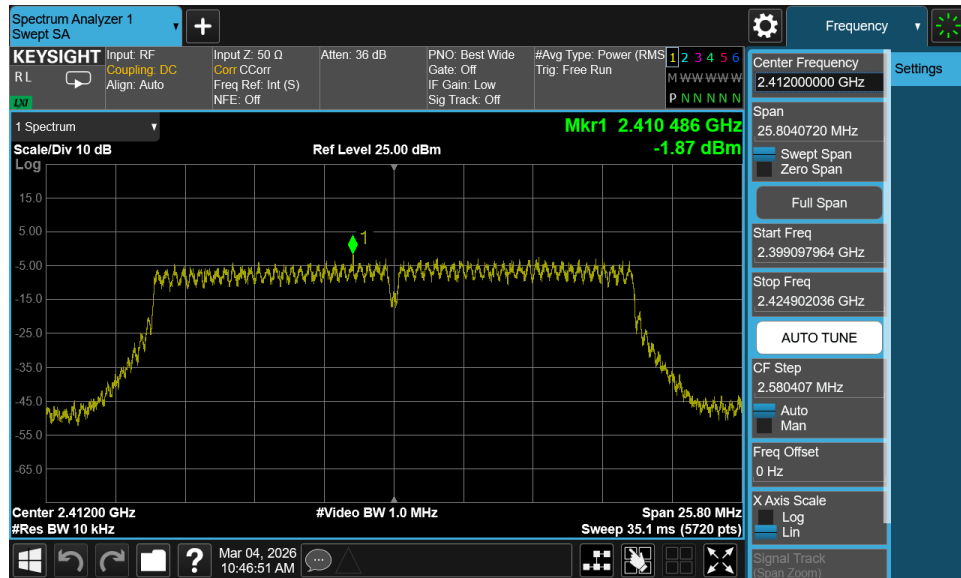
FCC ID: A3LSMF776U IC: 649E-SMF776W	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-14-R1.A3L	 This report is Blockchain Verified. To verify the report authenticity, please visit HTTPS://WWW.BLOCKCHAIN-VERIFIED.COM or by clicking on the Blockchain logo.	Page 50 of 95		



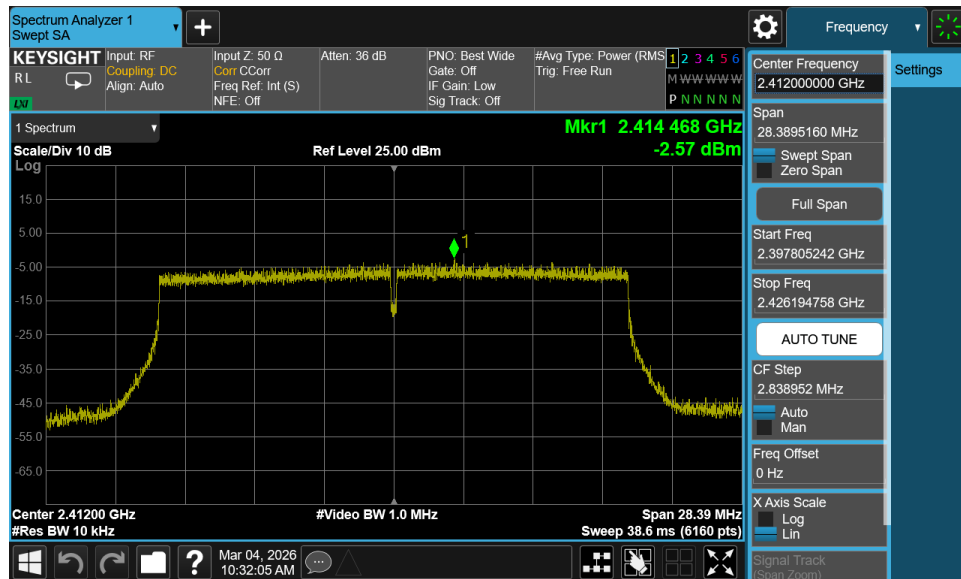
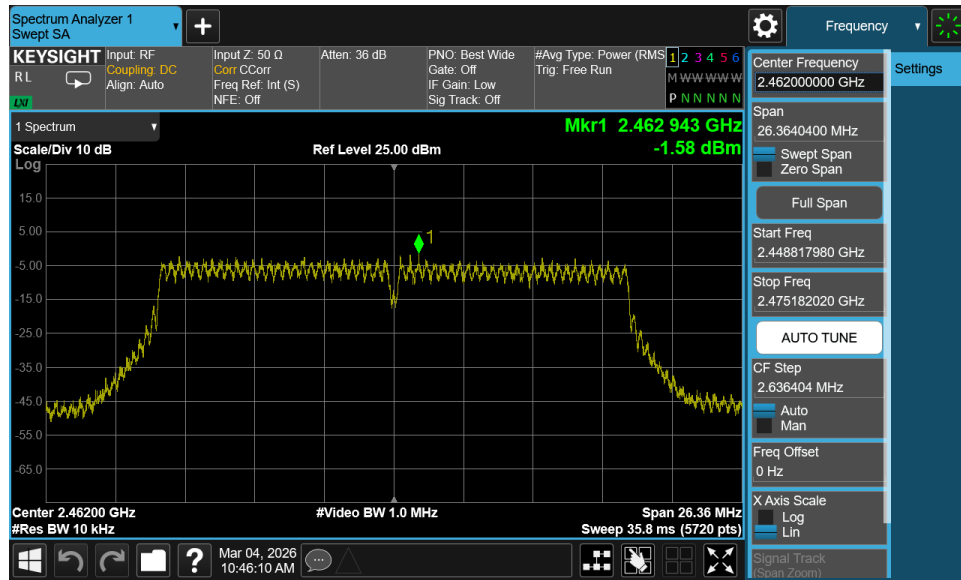
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Test Report S/N: 1M2602190015-14-R1.A3L	 This report is Blockchain Verified. To verify the report authenticity, please visit HTTPS://WWW.BLOCKCHAIN-VERIFIED.COM or by clicking on the Blockchain logo.			Page 51 of 95



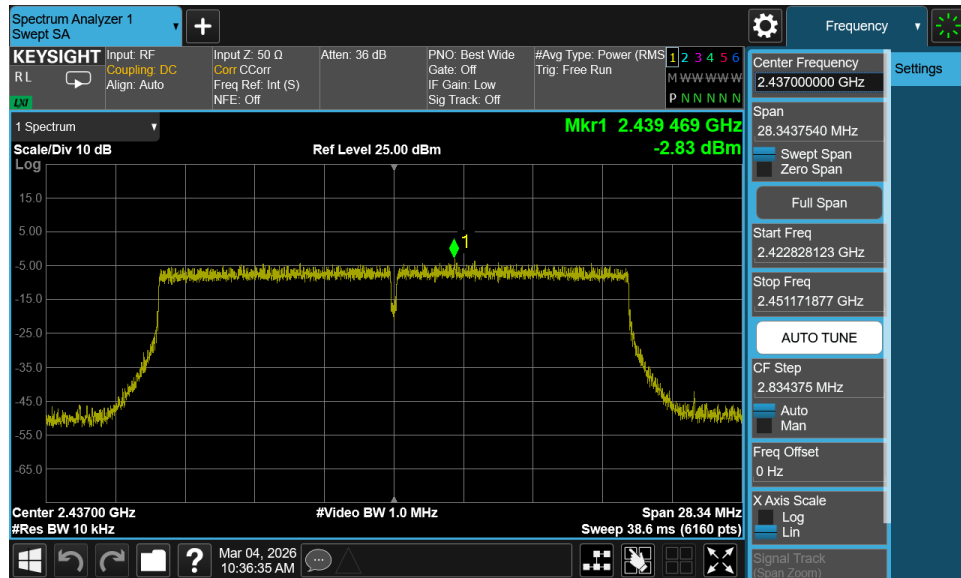
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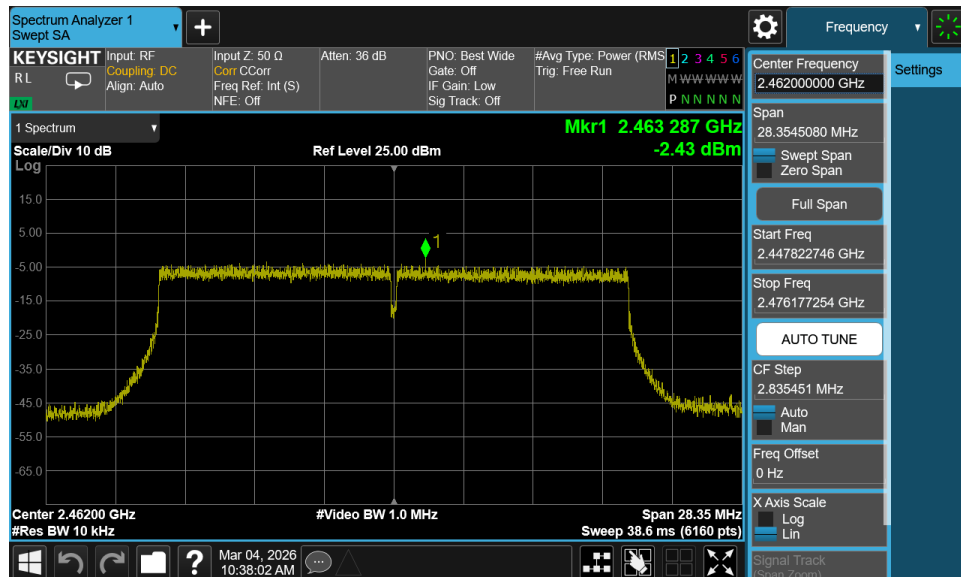
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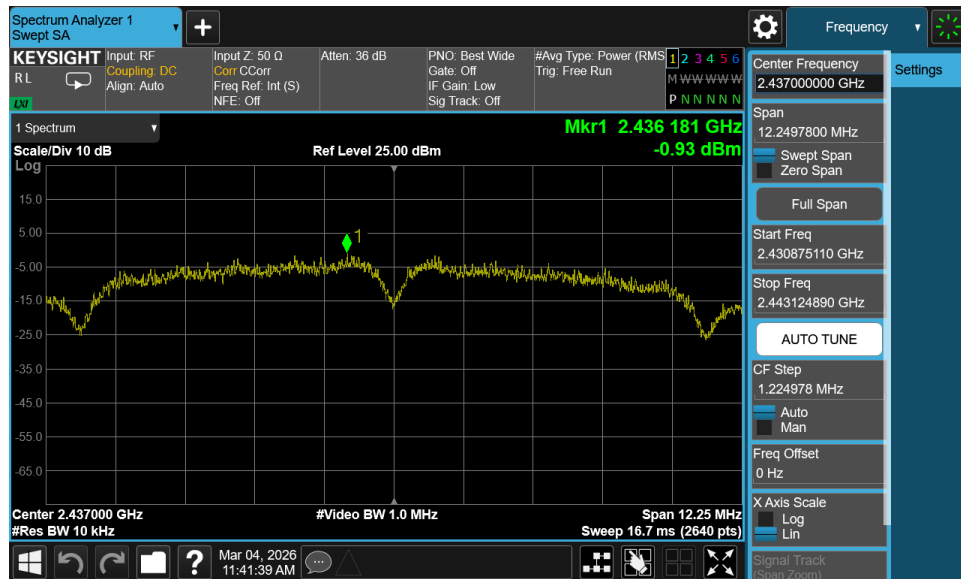
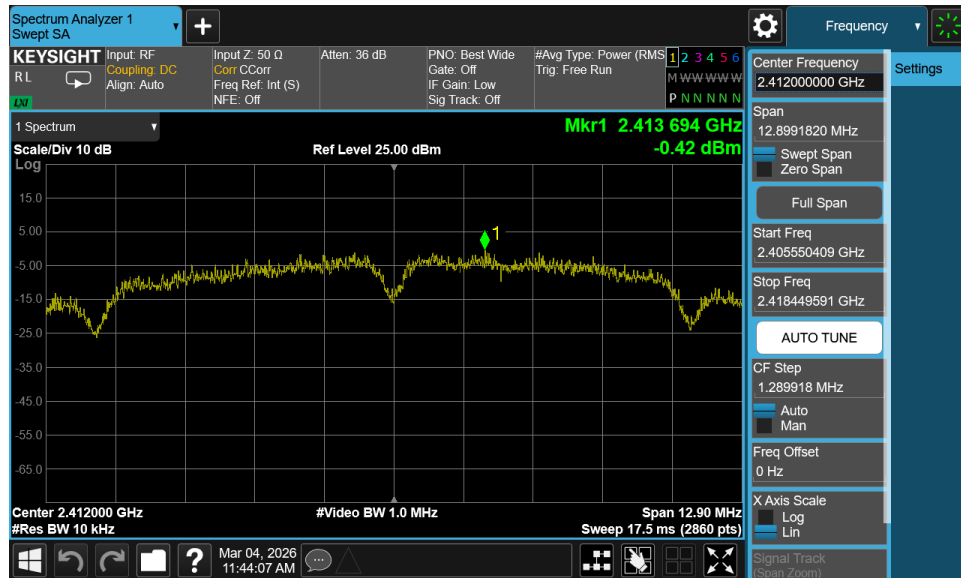


Plot 7-59. Power Spectral Density Plot MIMO ANT1 (802.11ax/be (2.4GHz) – Ch. 6)

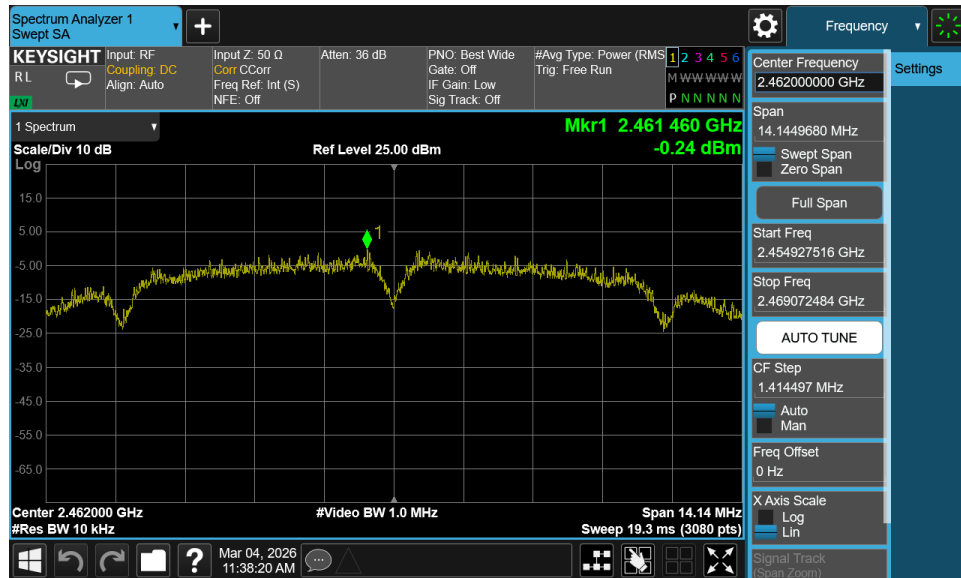


Plot 7-60. Power Spectral Density Plot MIMO ANT1 (802.11ax/be (2.4GHz) – Ch. 11)

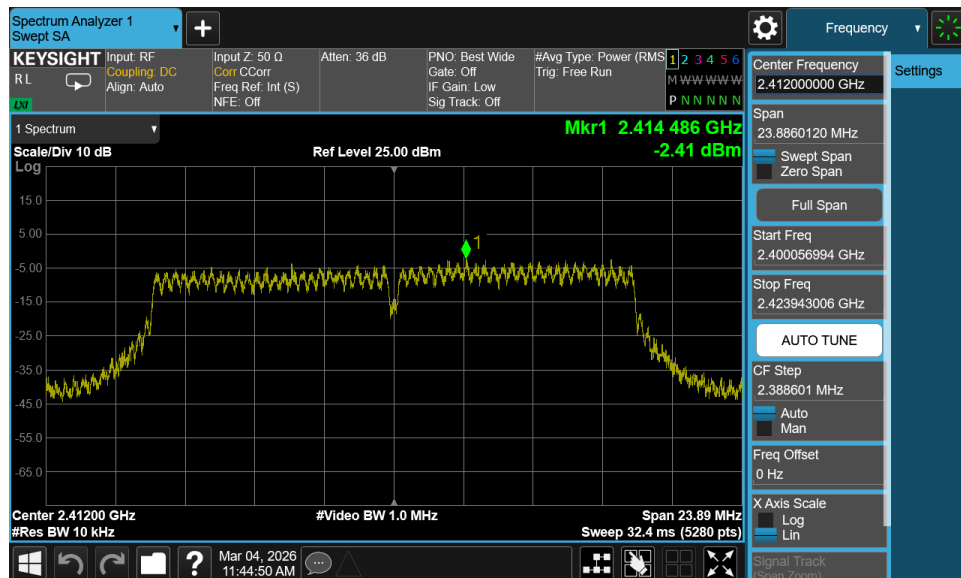
FCC ID: A3LSMF776U IC: 649E-SMF776W	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
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FCC ID: A3LSMF776U IC: 649E-SMF776W	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2602190015-14-R1.A3L	 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 56 of 95

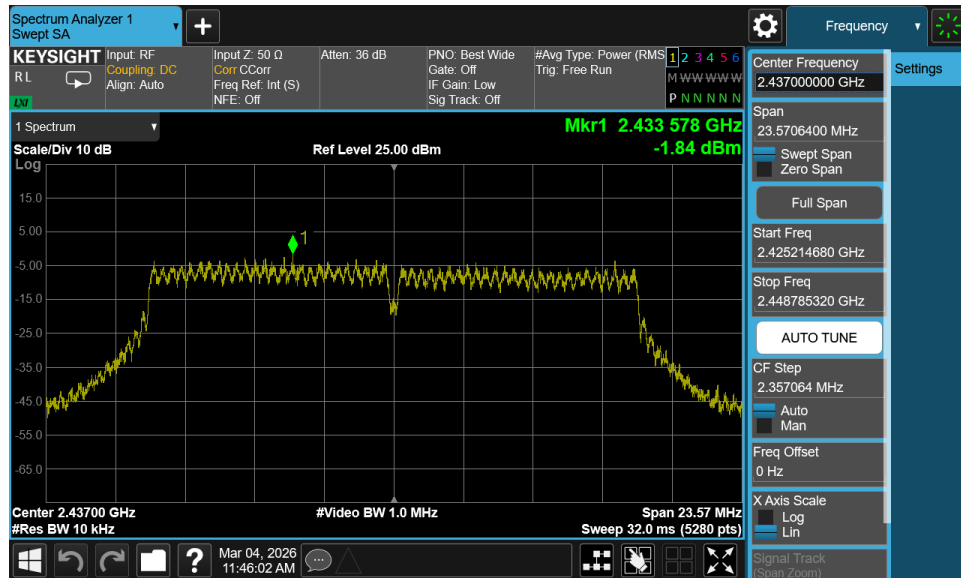


Plot 7-63. Power Spectral Density Plot MIMO ANT2 (802.11b – Ch. 11)

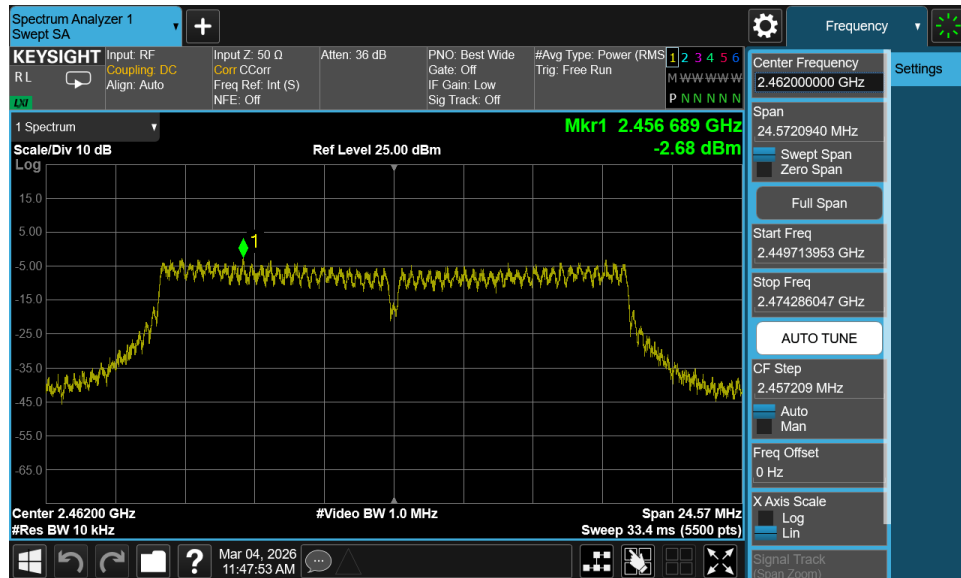


Plot 7-64. Power Spectral Density Plot MIMO ANT2 (802.11g – Ch. 1)

FCC ID: A3LSMF776U IC: 649E-SMF776W	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
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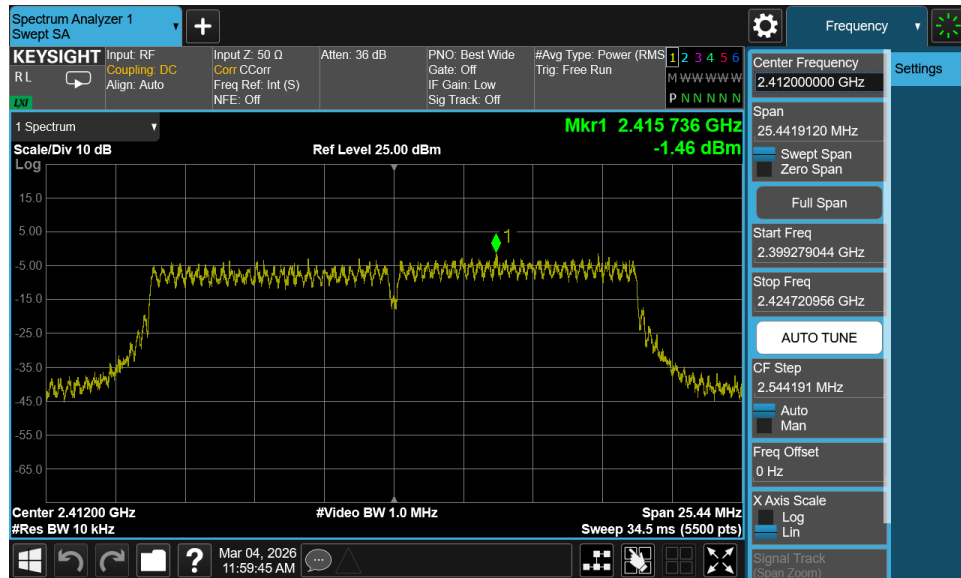


Plot 7-65. Power Spectral Density Plot MIMO ANT2 (802.11g – Ch. 6)

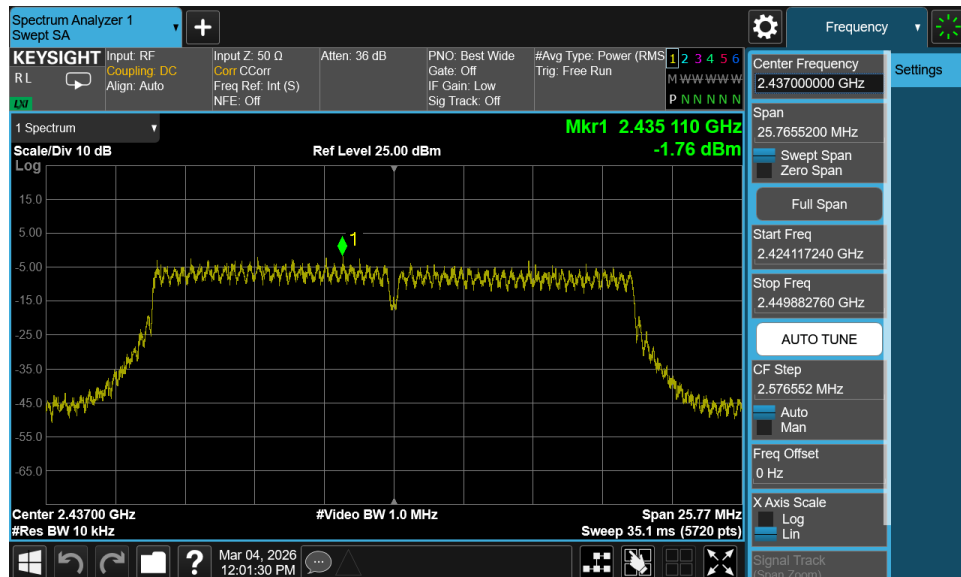


Plot 7-66. Power Spectral Density Plot MIMO ANT2 (802.11g – Ch. 11)

FCC ID: A3LSMF776U IC: 649E-SMF776W	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 2/24/2026 - 4/17/2026	EUT Type: Portable Handset	Approved by: Technical Manager
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Plot 7-67. Power Spectral Density Plot MIMO ANT2 (802.11n/ac (2.4GHz) – Ch. 1)



Plot 7-68. Power Spectral Density Plot MIMO ANT2 (802.11n/ac (2.4GHz) – Ch. 6)

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