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MEASUREMENT REPORT
FCC Part 15.247 / ISED RSS-247 Bluetooth

Applicant Name:

Microsoft Corporation
1 Microsoft Way
Redmond, WA 98052-8300
United States

Date of Testing:

4/16/2026-6/25/2026

Test Report Issue Date:

7/14/2026

Test Site/Location:

Element Lab., Columbia, MD, USA

Test Report Serial No.:

1M2604150032-07-R2.C3K

FCC ID:

C3K00002101

IC:

3048A-00002101

APPLICANT:

Microsoft Corporation

FCC Application Type:

Class II Permissive Change, Module Host Integration

ISED Application Type:

Class IV Permissive Change, Module Host Integration

Host Model:

2145

HVIN:

HWB-Q94

EUT Type:

Limited Modular Approval - Host Integration Computing Device

Frequency Range:

2402 – 2480MHz

Type of Modulation:

GFSK, $\pi/4$ -DQPSK, 8DPSK

FCC Classification:

FCC Part 15 Spread Spectrum Transmitter (DSS)

ISED Specifications:

RSS-247 Issue 4

FCC Test Procedure(s):

ANSI C63.10:2020 + Cor. 1:2023

ISED Test Procedure(s):

ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to
C63.10a:2024

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: 1M2604150032-07-R2.C3K) supersedes and replaces the previously issued test report (S/N: 1M2604150032-07-R1.C3K) 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: C3K00002101 IC: 3048A-00002101		Test Dates: 4/16/2026-6/25/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
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TEST REPORT REVISION HISTORY

Rev. No.	Description	Issue Date	Revised By
-	Initial Release	6/29/2026	WKR0000005883
1	Addressed Client's Feedback	7/7/2026	WKR0000005883
2	Addressed comments made by TCB reviewer	7/14/2026	WKR0000005883

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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 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).

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2.0 PRODUCT INFORMATION

2.1 Equipment Description

The Equipment Under Test (EUT) is the **Microsoft Limited Modular Approval FCC ID: C3K00002101** and **IC: 3048A-00002101 Host Integration in Model 2145 Portable Computing Device**. The test data contained in this report pertains only to the emissions due to the EUT's Bluetooth transmitter.

- This Bluetooth module has been tested by a Bluetooth Qualification Lab, and we confirm the following:
 - A) The hopping sequence is pseudorandom
 - B) All channels are used equally on average
 - C) The receiver input bandwidth equals the transmit bandwidth
 - D) The receiver hops in sequence with the transmit signal
- 15.247(g): In accordance with the Bluetooth Industry Standard, the system is designed to comply with all of the regulations in Section 15.247 when the transmitter is presented with a continuous data (or information) system.
- 15.247(h): In accordance with the Bluetooth Industry Standard, the system does not coordinate its channels selection/hopping sequence with other frequency hopping systems for the express purpose of avoiding the simultaneous occupancy of individual hopping frequencies by multiple transmitters.
- 15.247(h): The EUT employs Adaptive Frequency Hopping (AFH) which identifies sources of interference namely devices operating in 802.11 WLAN and excludes them from the list of available channels. The process of re-mapping reduces the number of test channels from 79 channels to a minimum number of 20 channels.

This test report provides testing results of the referenced module being integrated into the Model 2145 Portable Computing Device.

Test Device Serial No.: 0F393T926063X3, 0F394BH26063X3, 0F394DJ26063X3, 0F394D626063X3, 0F394BC26063X3, 0F393TH26063X3, 0F393TG26063X3, 0F394HT26063X3, 0F3933F26063X3

2.2 Device Capabilities

This device contains the following capabilities:

Bluetooth (1x, EDR, LE), 802.11b/g/n/ac/ax/be WLAN, 802.11a/n/ac/ax/be UNII (5GHz and 6GHz)

Ch.	Frequency (MHz)
00	2402
:	:
39	2441
:	:
78	2480

Table 2-1. Frequency/ Channel Operations

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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2.3 Antenna Description

The manufacturer provided the following 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 Antenna Report document provided by the client. This document is also included in the filing as a public exhibit.

Frequency [GHz]	Chain 0 Antenna Gain (dBi)	Chain 1 Antenna Gain (dBi)	Correlated MIMO Antenna Gain (measured) (dBi)	Uncorrelated MIMO Antenna Gain (measured) (dBi)
2.4	3.38	4.12	5.67	2.75

Table 2-2. 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.

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.

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

The EUT was manipulated through three orthogonal planes of X-orientation (flatbed), Y-orientation (landscape), and Z-orientation (portrait) during the testing. Only the worst case emissions were reported in this test report. The worst orientation was found to be Y-orientation (landscape).

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

$\pi/4$ -DQPSK has been investigated and confirmed as not the worst case.

2.5 Software and Firmware

The test was conducted with software/firmware version 692.5605.21.34463 installed on the EUT.

2.6 EMI Suppression Device(s)/Modifications

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

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3.0 DESCRIPTION OF TESTS

3.1 Evaluation Procedure

The measurement procedure 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 the cables were not draped over the second LISN.

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

Line conducted emissions test results are shown in Section 7.4. 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 antennas 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
-	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
Agilent	N4010A	Wireless Connectivity Test Set		#N/A		GB44450273
Agilent	N9038A	MXE EMI Receiver	11/10/2025	Annual	11/10/2026	MY51210133
EMCO	3115	Horn Antenna (1-18GHz)	9/6/2024	Biennial	9/6/2026	9704-5182
EMCO	3116	Horn Antenna (18-40GHz)	1/26/2026	Biennial	1/26/2028	9203-2178
Keysight Technologies	N9030A	PXA Signal Analyzer	11/3/2025	Annual	11/3/2026	MY54490576
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	JB5	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.

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

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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

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

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7.0 TEST RESULTS

7.1 Summary

Company Name: Microsoft Corporation
 FCC ID: C3K00002101
 IC: 3048A-00002101
 Method/System: Frequency Hopping Spread Spectrum (FHSS)
 Number of Channels: 79

FCC Part Section(s)	RSS Section(s)	Test Description	Test Limit	Test Condition	Test Result	Reference
15.247(a)(1)(iii)	RSS-247 [6.2.1(a)]	20dB Bandwidth	N/A	CONDUCTED	PASS	See Original Filing for Module
15.247(b)(1)	RSS-247 [6.2.3.2(a)]	Peak Transmitter Output Power	< 1 Watt if ≥ 75 non-overlapping channels used		PASS	Section 7.2
15.247(a)(1)	RSS-247 [6.2.3.1(a)]	Channel Separation	> 2/3 of 20 dB BW for systems with Output Power < 125mW		PASS	See Original Filing for Module
15.247(a)(1)(iii)	RSS-247 [6.2.3.1(b)]	Number of Channels	> 15 Channels		PASS	See Original Filing for Module
15.247(a)(1)(iii)	RSS-247 [6.2.3.1(b)]	Time of Occupancy	< 0.4 sec in 31.6 sec period		PASS	See Original Filing for Module
15.247(d)	RSS-247 [6.6]	Band Edge / Out-of-Band Emissions	Conducted > 20dBc		PASS	See Original Filing for Module
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-247 limits)	RADIATED	PASS	Section 7.3
15.207	RSS-Gen [8.8]	AC Conducted Emissions 150kHz – 30MHz	< FCC 15.207 limits (RSS-Gen [8.8] limits)	LINE CONDUCTED	PASS	Section 7.4

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, directional couplers, and attenuators used as part of the system to maintain a link between the call box and the EUT 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, attenuators, and couplers.
- 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 "BT Auto," 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.

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7.2 Output Power Measurement

Test Overview and Limits

Measurement is made while the EUT is operating in non-hopping transmission mode. The powers shown below were measured using a spectrum analyzer with a Bluetooth signaling test set (Agilent Model: N4010A) used only to maintain a Bluetooth link with the EUT. Average power measurements are performed using the analyzer's "burst power" function with RBW = 3MHz. The burst power function triggers on a single set burst set to maximum power and measures the maximum average power on the on-time.

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 7-1. Test Instrument & Measurement Setup

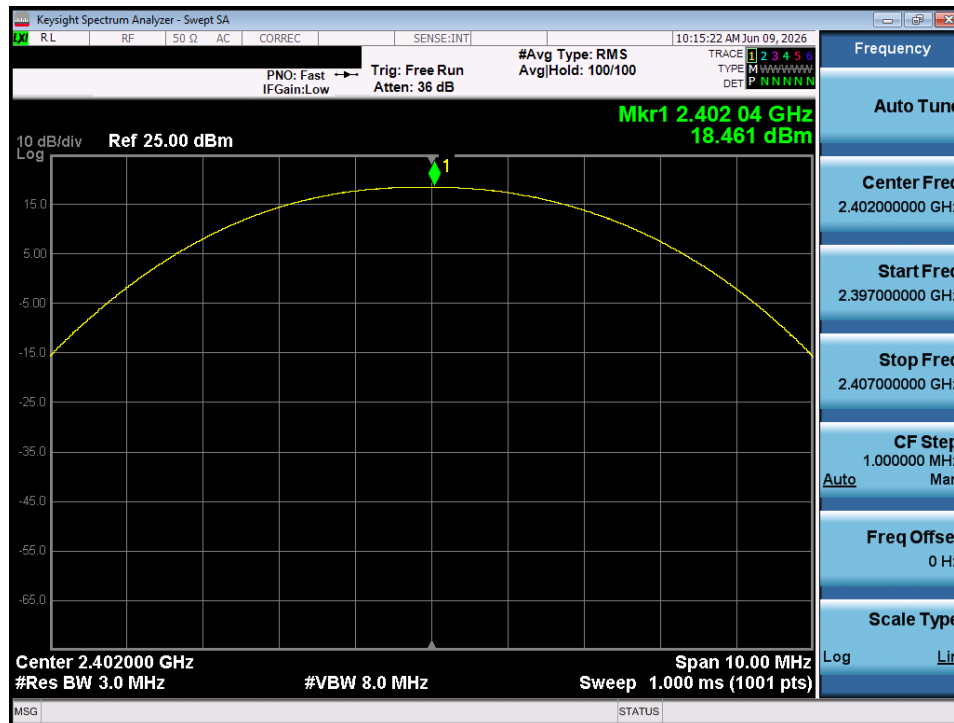
Test Notes

None

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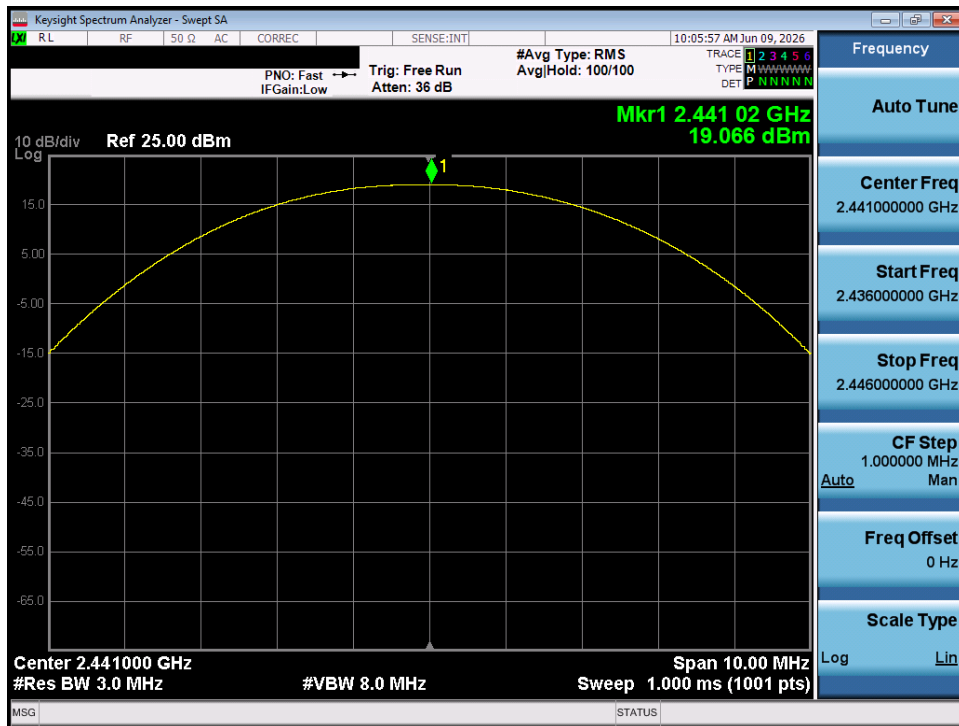
Frequency [MHz]	Data Rate [Mbps]	Channel No.	Peak Conducted Power		Avg Conducted Power		Ant. Gain [dBi]	EIRP [dBm]	Limit [dBm]	Margin [dB]
			[dBm]	[mW]	[dBm]	[mW]				
2402	1.0	0	18.46	70.162	18.00	63.090	3.38	21.84	36.02	-14.18
2441	1.0	39	19.07	80.649	18.60	72.496	3.38	22.45	36.02	-13.57
2480	1.0	78	18.63	72.912	18.20	66.007	3.38	22.01	36.02	-14.01
2402	2.0	0	18.81	75.945	15.44	34.969	3.38	22.19	36.02	-13.84
2441	2.0	39	19.24	83.985	15.93	39.201	3.38	22.62	36.02	-13.40
2480	2.0	78	19.02	79.781	15.64	36.671	3.38	22.40	36.02	-13.62
2402	3.0	0	19.40	87.056	15.51	35.568	3.38	22.78	36.02	-13.24
2441	3.0	39	19.84	96.427	16.01	39.903	3.38	23.22	36.02	-12.80
2480	3.0	78	19.46	88.267	15.71	37.205	3.38	22.84	36.02	-13.18

Table 7-2. Conducted Output Power Measurements – SISO CHAIN 0

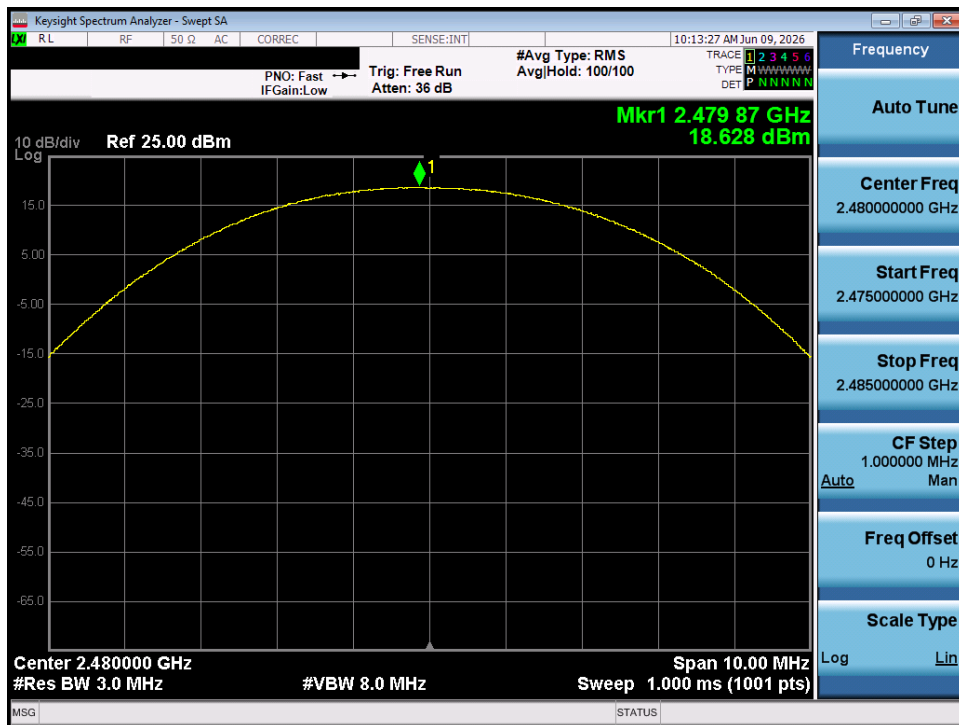


Plot 7-1. Peak Conducted Power (1Mbps – Ch. 0) – SISO CHAIN 0

FCC ID: C3K00002101 IC: 3048A-00002101		Test Dates: 4/16/2026-6/25/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
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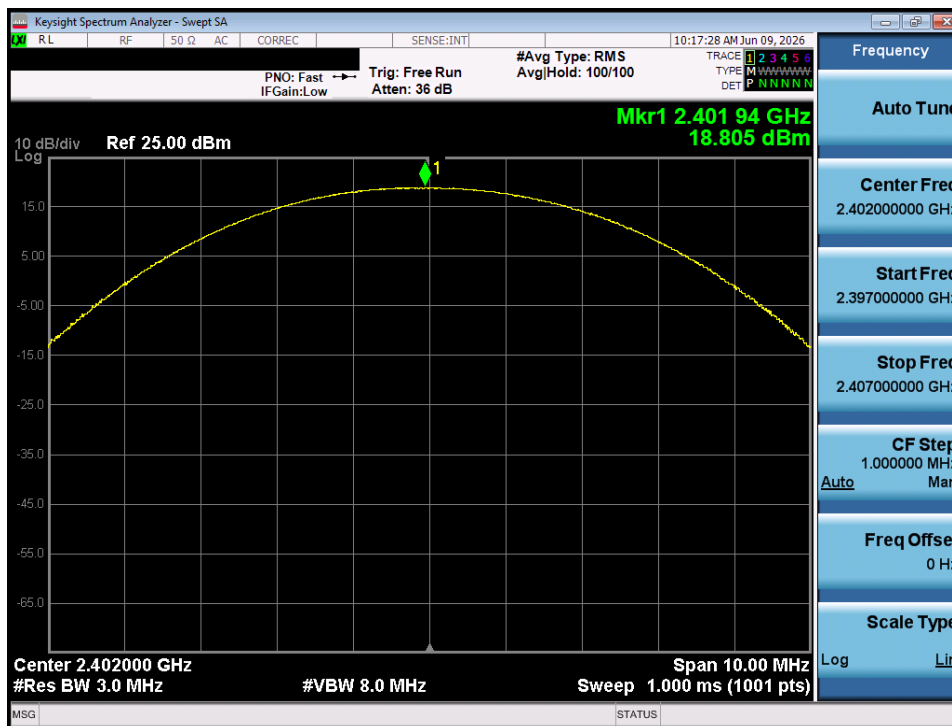


Plot 7-2. Peak Conducted Power (1Mbps – Ch. 39) – SISO CHAIN 0

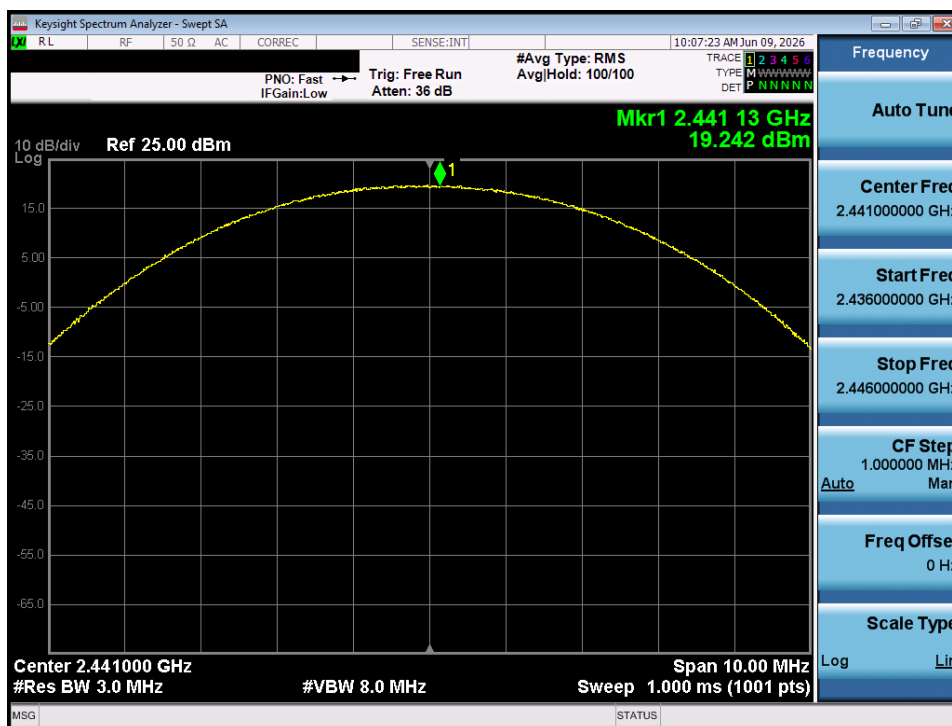


Plot 7-3. Peak Conducted Power (1Mbps – Ch. 78) – SISO CHAIN 0

FCC ID: C3K00002101 IC: 3048A-00002101		Test Dates: 4/16/2026-6/25/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
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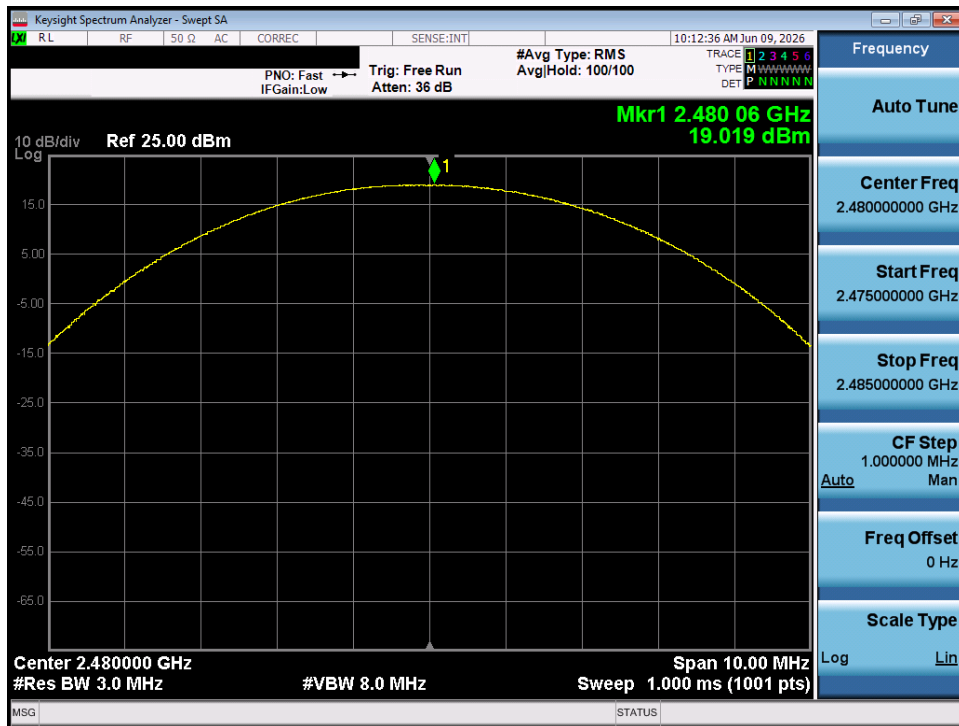


Plot 7-4. Peak Conducted Power (2Mbps – Ch. 0) – SISO CHAIN 0

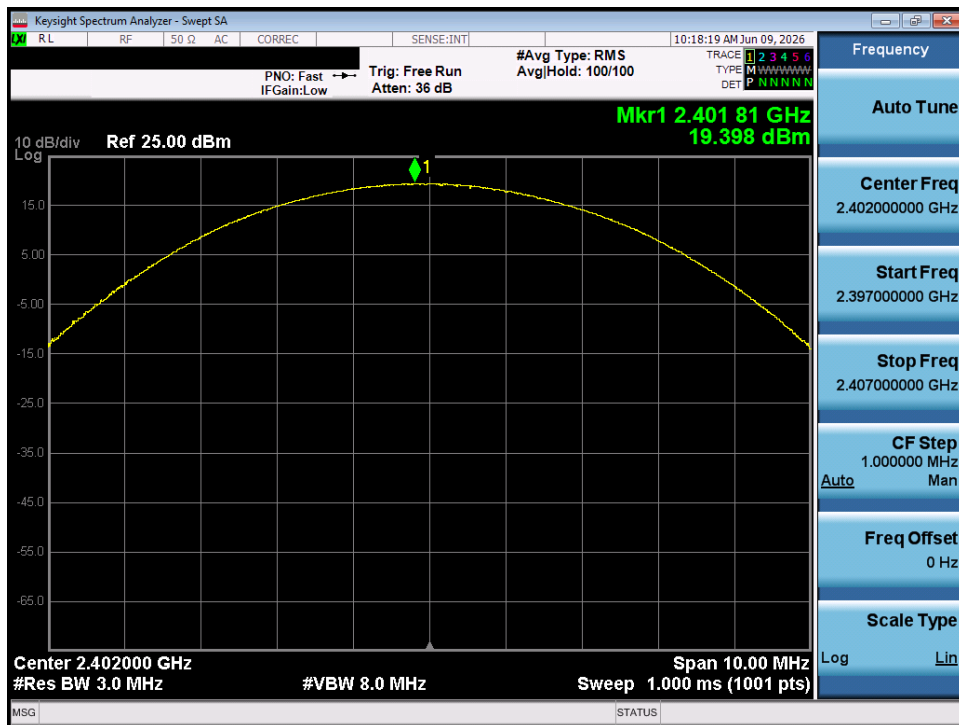


Plot 7-5. Peak Conducted Power (2Mbps – Ch. 39) – SISO CHAIN 0

FCC ID: C3K00002101 IC: 3048A-00002101		Test Dates: 4/16/2026-6/25/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
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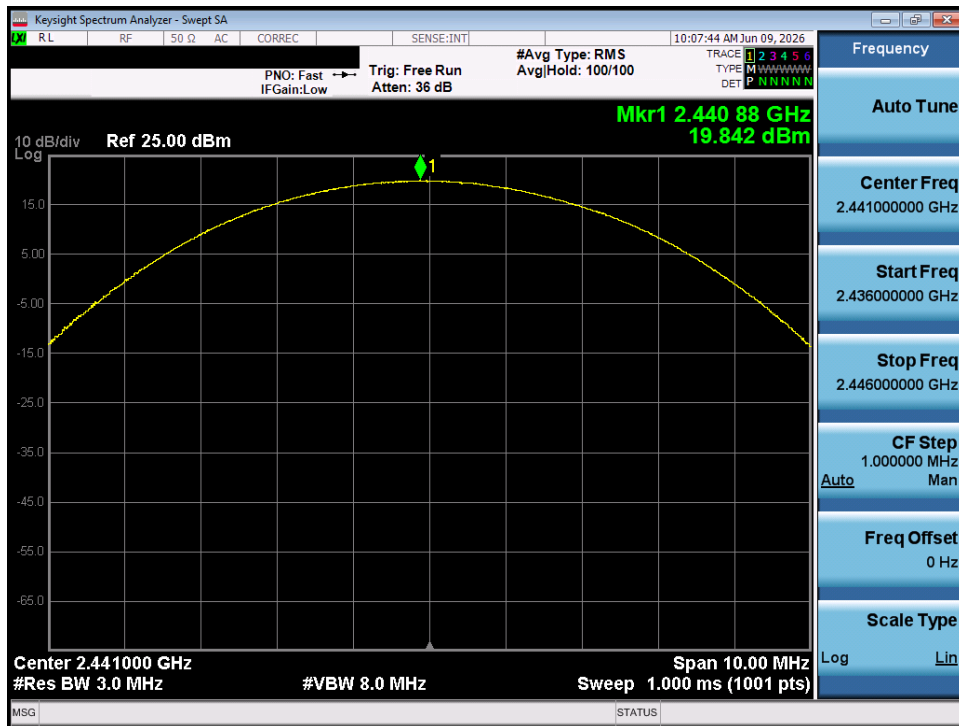


Plot 7-6. Peak Conducted Power (2Mbps – Ch. 78) – SISO CHAIN 0

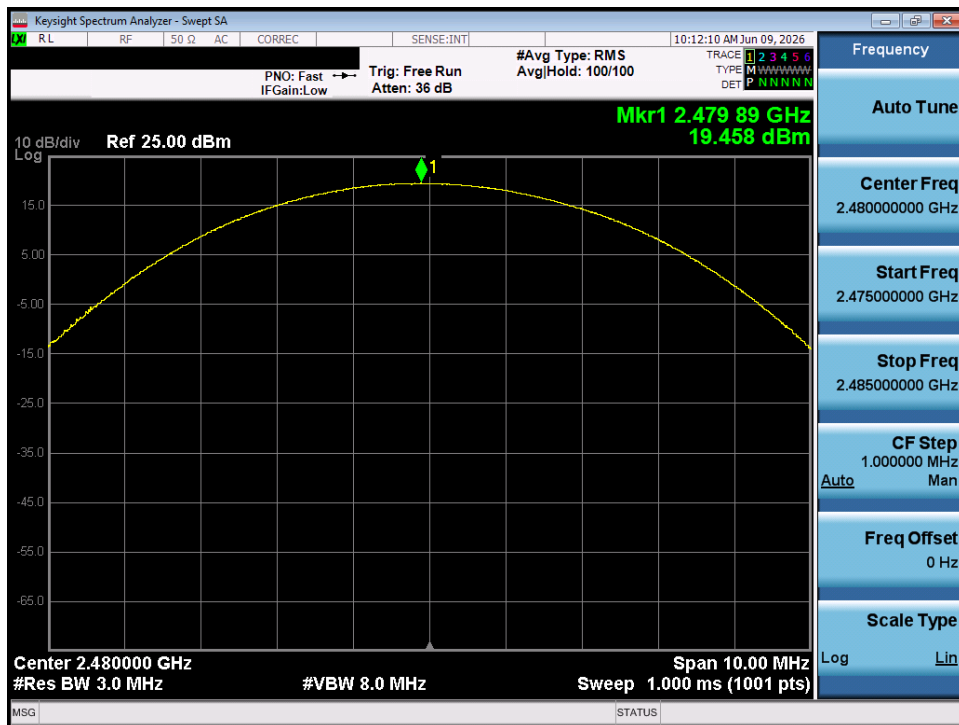


Plot 7-7. Peak Conducted Power (3Mbps – Ch. 0) – SISO CHAIN 0

FCC ID: C3K00002101 IC: 3048A-00002101		Test Dates: 4/16/2026-6/25/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
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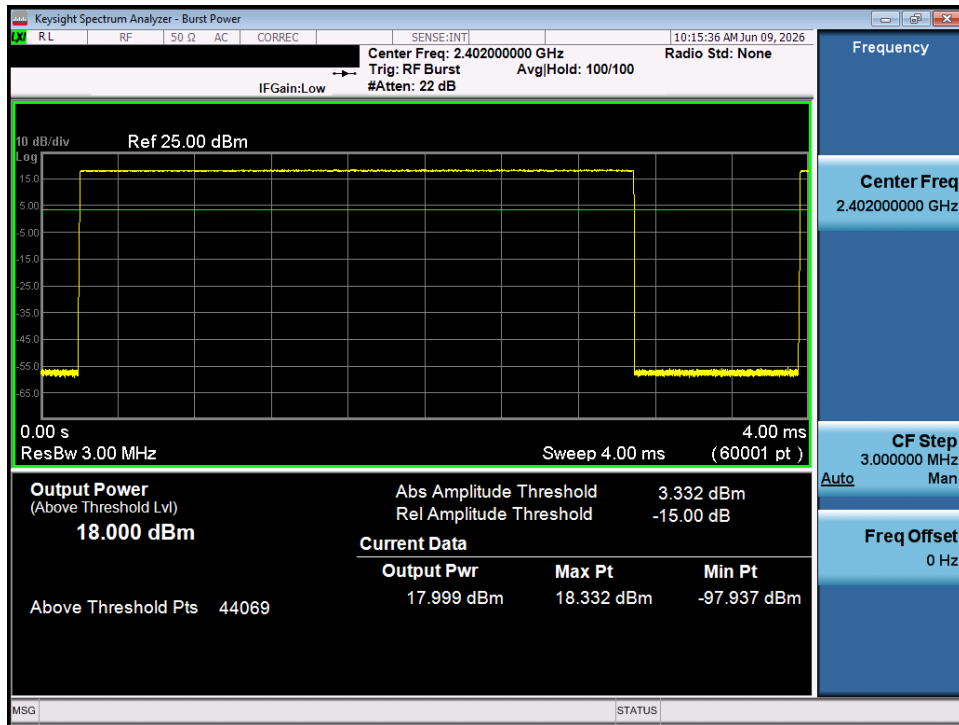


Plot 7-8. Peak Conducted Power (3Mbps – Ch. 39) – SISO CHAIN 0

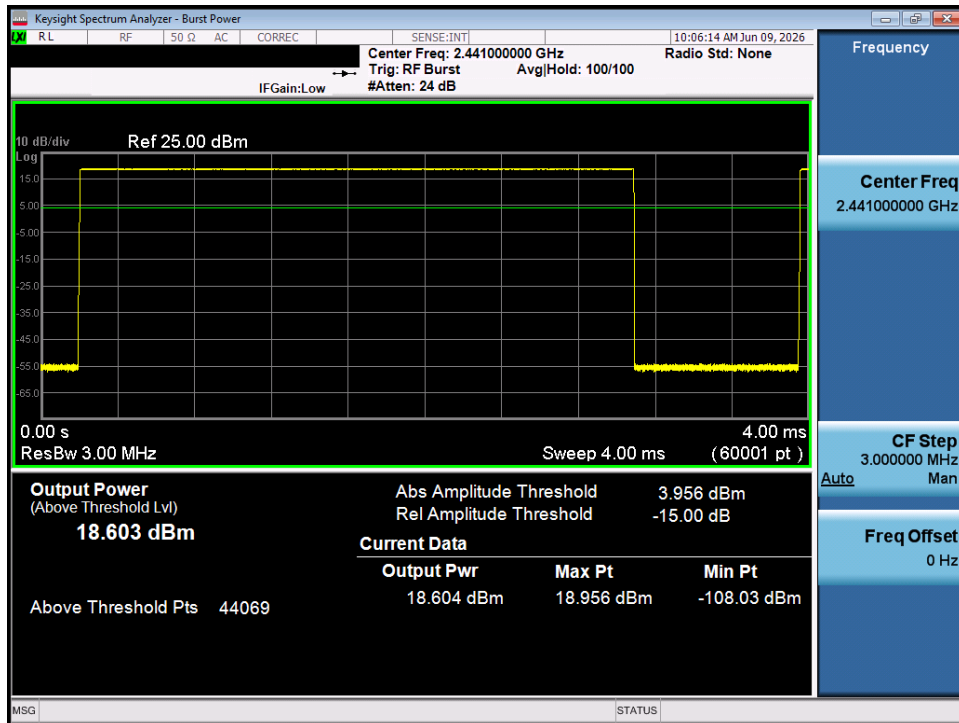


Plot 7-9. Peak Conducted Power (3Mbps – Ch. 78) – SISO CHAIN 0

FCC ID: C3K00002101 IC: 3048A-00002101		Test Dates: 4/16/2026-6/25/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
Test Report S/N: 1M2604150032-07-R2.C3K		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 19 of 68

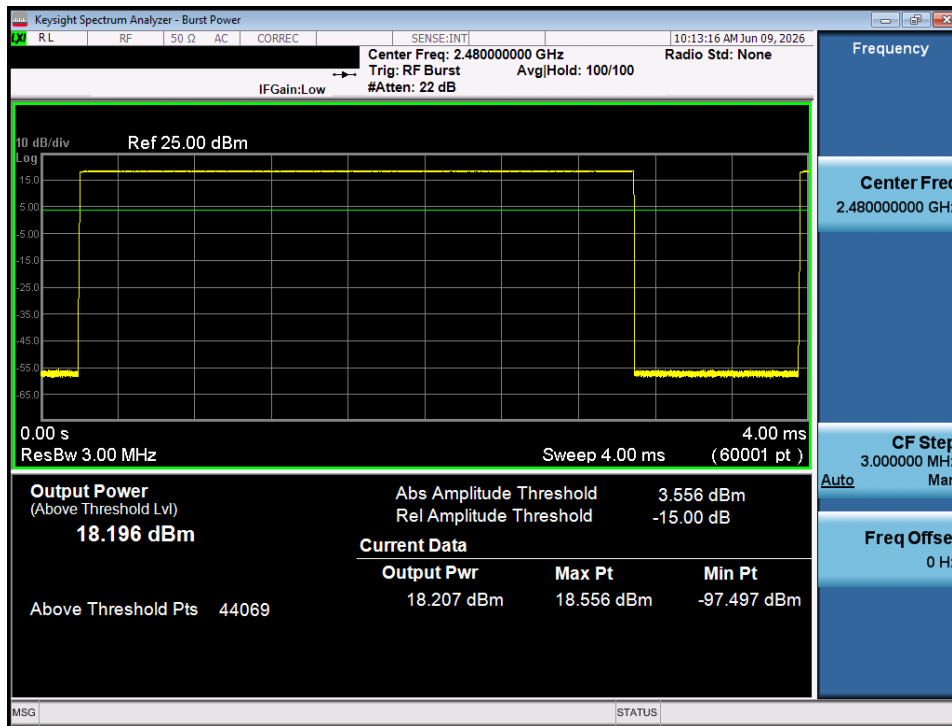


Plot 7-10. Average Conducted Power (1Mbps – Ch. 0) – SISO CHAIN 0

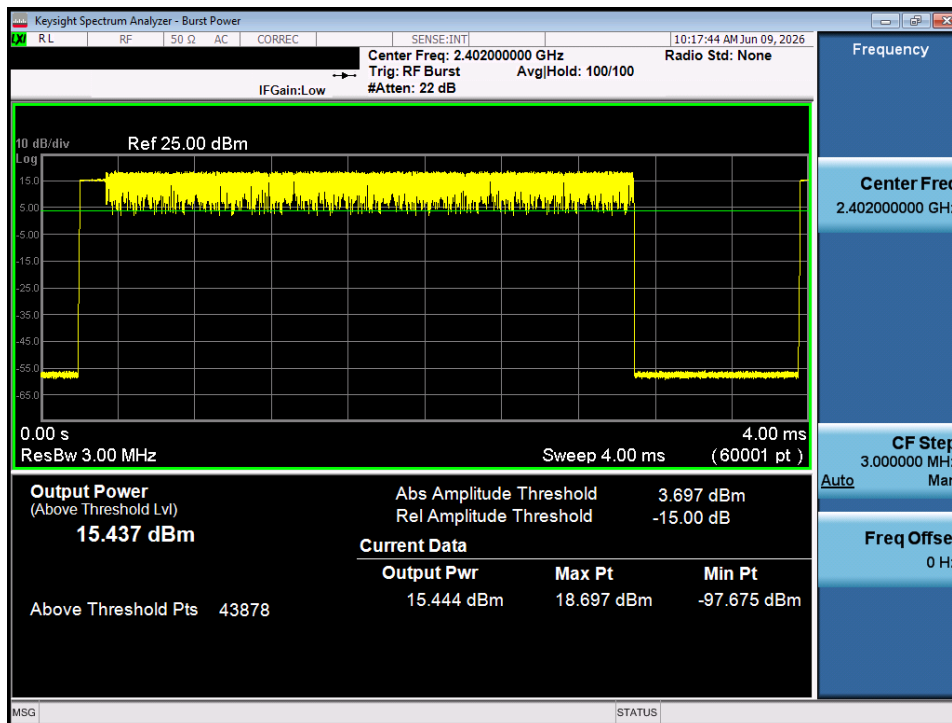


Plot 7-11. Average Conducted Power (1Mbps – Ch. 39) – SISO CHAIN 0

FCC ID: C3K00002101 IC: 3048A-00002101		Test Dates: 4/16/2026-6/25/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
Test Report S/N: 1M2604150032-07-R2.C3K		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 20 of 68

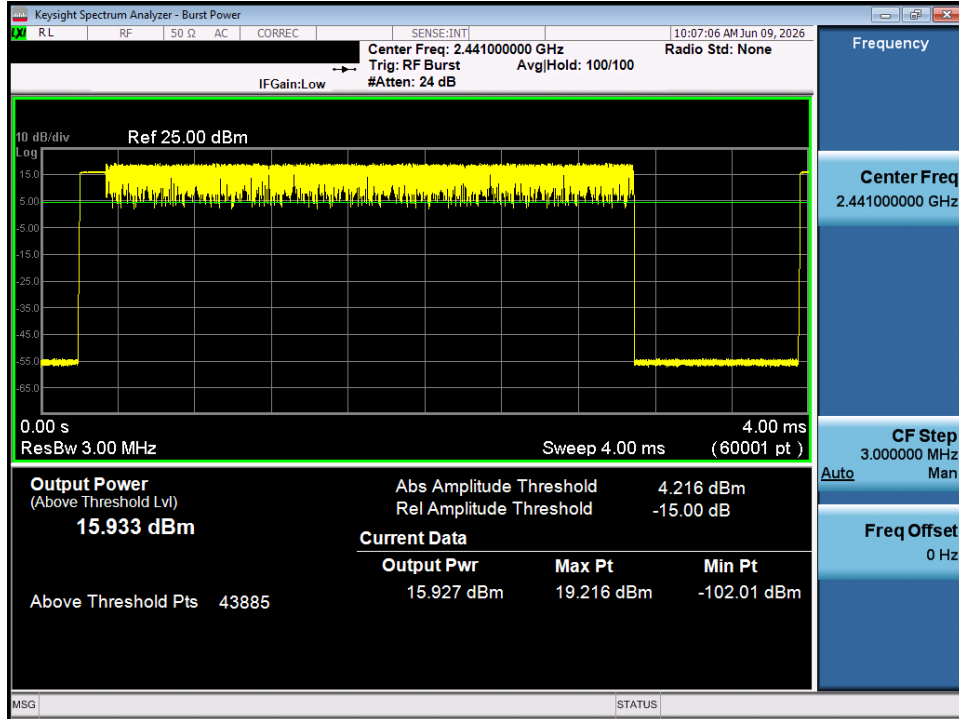


Plot 7-12. Average Conducted Power (1Mbps – Ch. 78) – SISO CHAIN 0

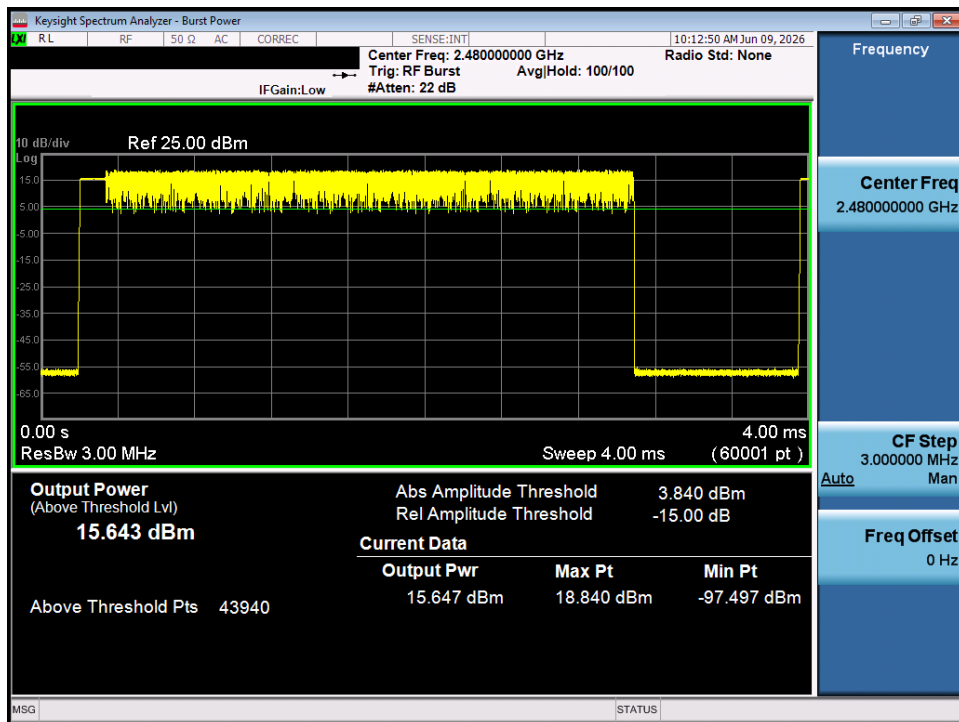


Plot 7-13. Average Conducted Power (2Mbps – Ch. 0) – SISO CHAIN 0

FCC ID: C3K00002101 IC: 3048A-00002101		Test Dates: 4/16/2026-6/25/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
Test Report S/N: 1M2604150032-07-R2.C3K		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 21 of 68

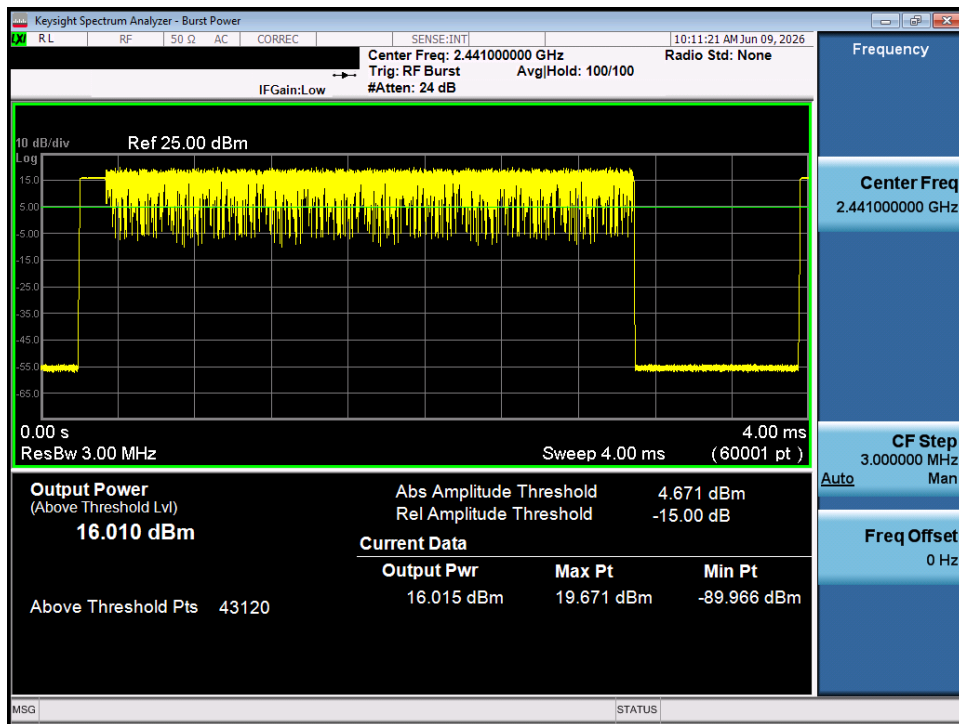
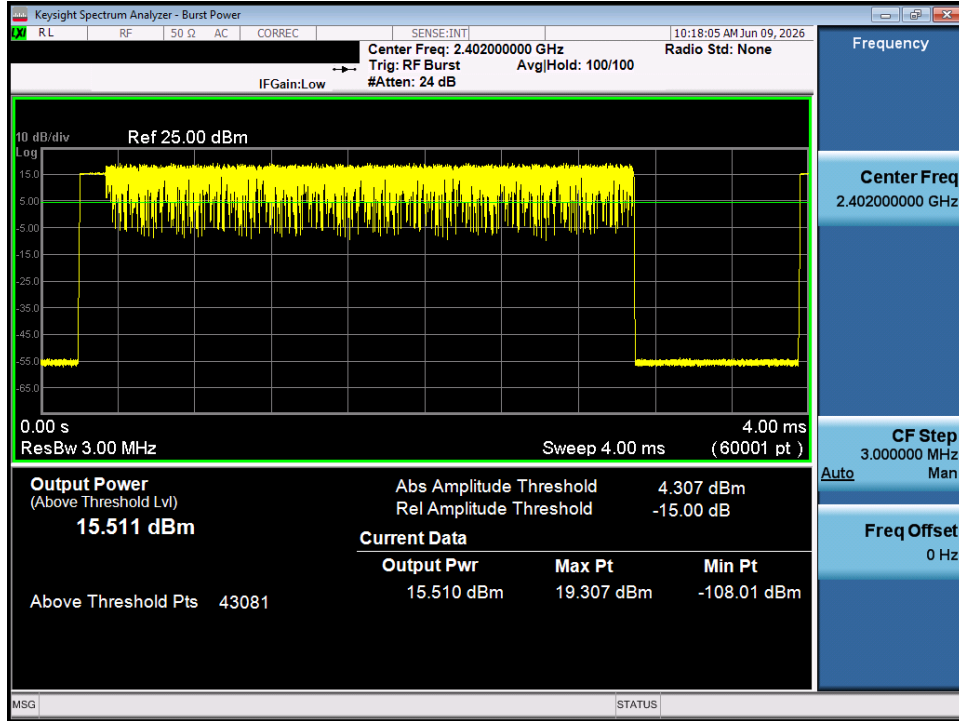


Plot 7-14. Average Conducted Power (2Mbps – Ch. 39) – SISO CHAIN 0

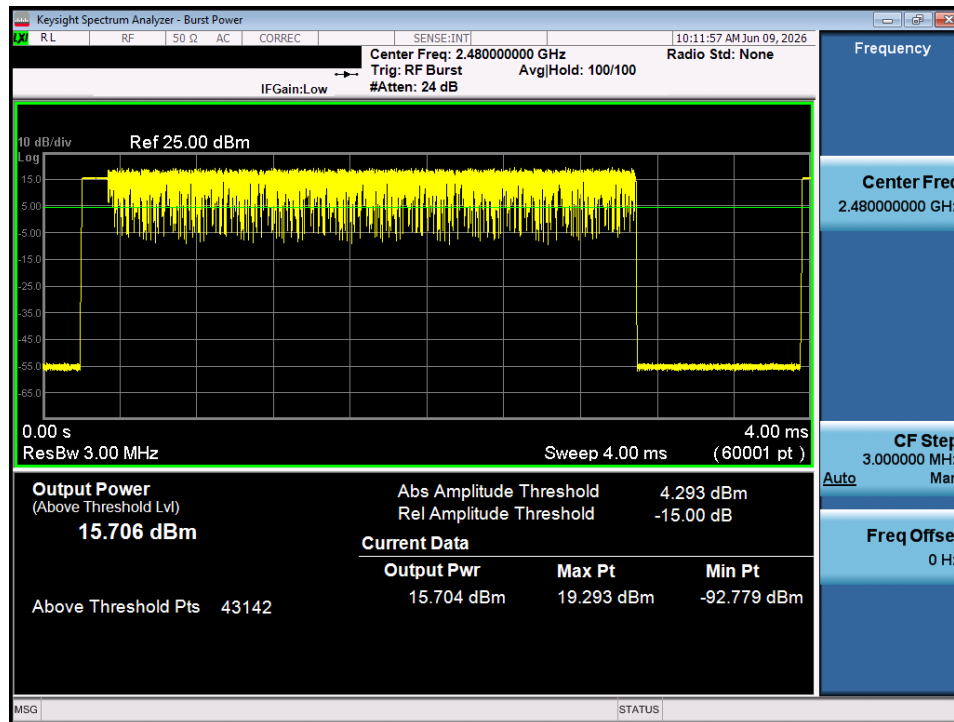


Plot 7-15. Average Conducted Power (2Mbps – Ch. 78) – SISO CHAIN 0

FCC ID: C3K00002101 IC: 3048A-00002101		Test Dates: 4/16/2026-6/25/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
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FCC ID: C3K00002101 IC: 3048A-00002101		Test Dates: 4/16/2026-6/25/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
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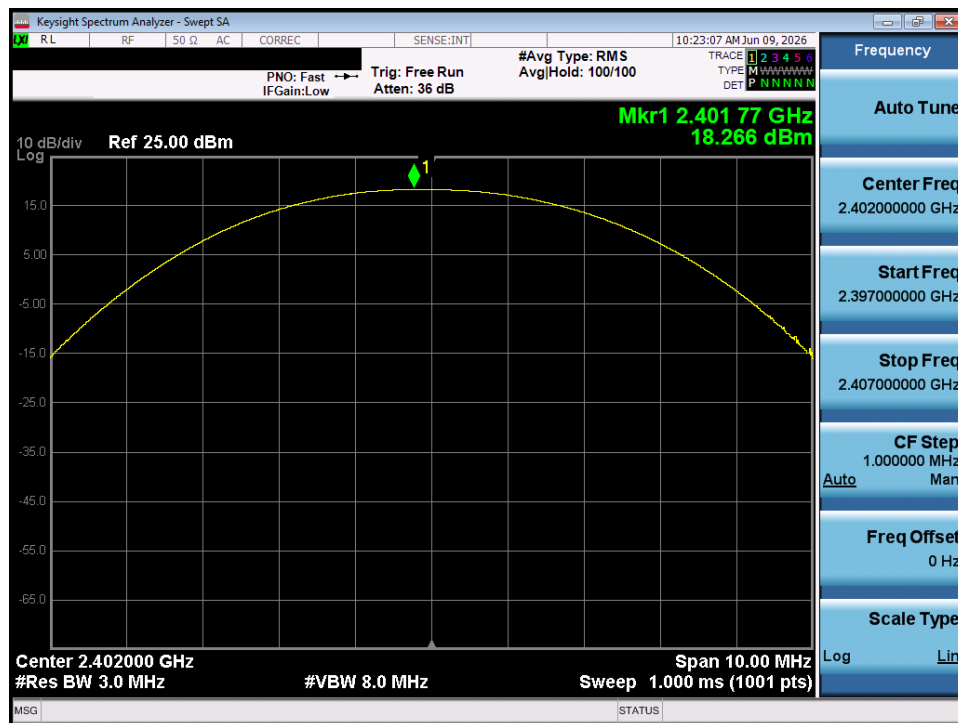


Plot 7-18. Average Conducted Power (3Mbps – Ch. 78) – SISO CHAIN 0

FCC ID: C3K00002101 IC: 3048A-00002101		Test Dates: 4/16/2026-6/25/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
Test Report S/N: 1M2604150032-07-R2.C3K		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 24 of 68

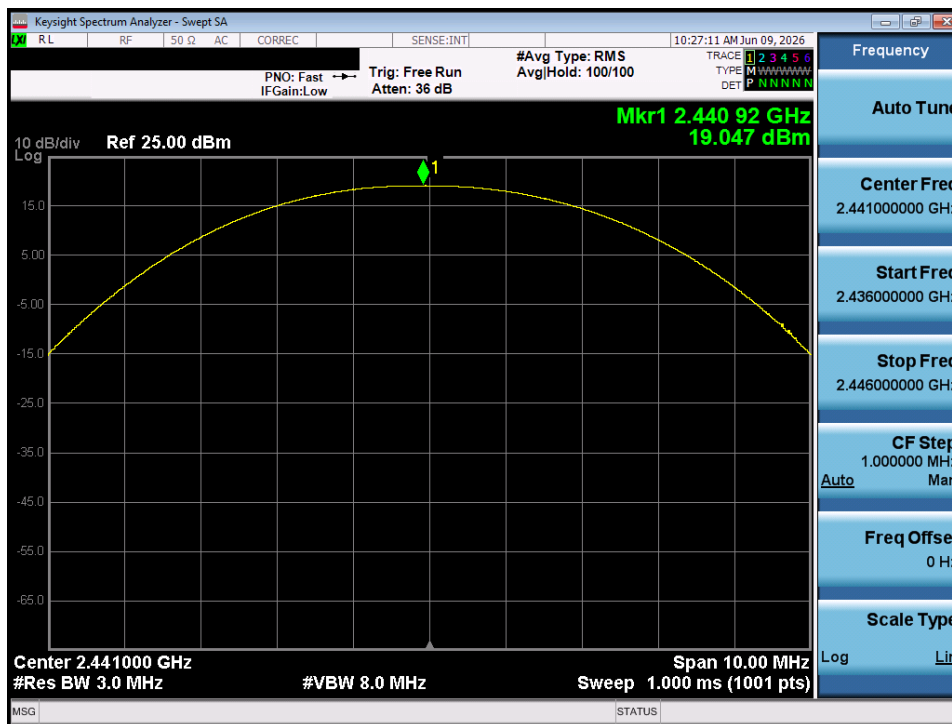
Frequency [MHz]	Data Rate [Mbps]	Channel No.	Peak Conducted Power		Avg Conducted Power		Ant. Gain [dBi]	EIRP [dBm]	Limit [dBm]	Margin [dB]
			[dBm]	[mW]	[dBm]	[mW]				
2402	1.0	0	18.27	67.081	17.80	60.271	4.12	22.39	36.02	-13.63
2441	1.0	39	19.05	80.297	18.64	73.161	4.12	23.17	36.02	-12.85
2480	1.0	78	18.60	72.410	18.15	65.305	4.12	22.72	36.02	-13.30
2402	2.0	0	18.85	76.701	15.57	36.075	4.12	22.97	36.02	-13.05
2441	2.0	39	19.23	83.676	16.06	40.365	4.12	23.35	36.02	-12.67
2480	2.0	78	18.84	76.630	15.66	36.811	4.12	22.96	36.02	-13.06
2402	3.0	0	19.36	86.218	15.64	36.645	4.12	23.48	36.02	-12.54
2441	3.0	39	19.79	95.280	16.09	40.655	4.12	23.91	36.02	-12.11
2480	3.0	78	19.37	86.417	15.70	37.193	4.12	23.49	36.02	-12.53

Table 7-3. Conducted Output Power Measurements – SISO CHAIN 1

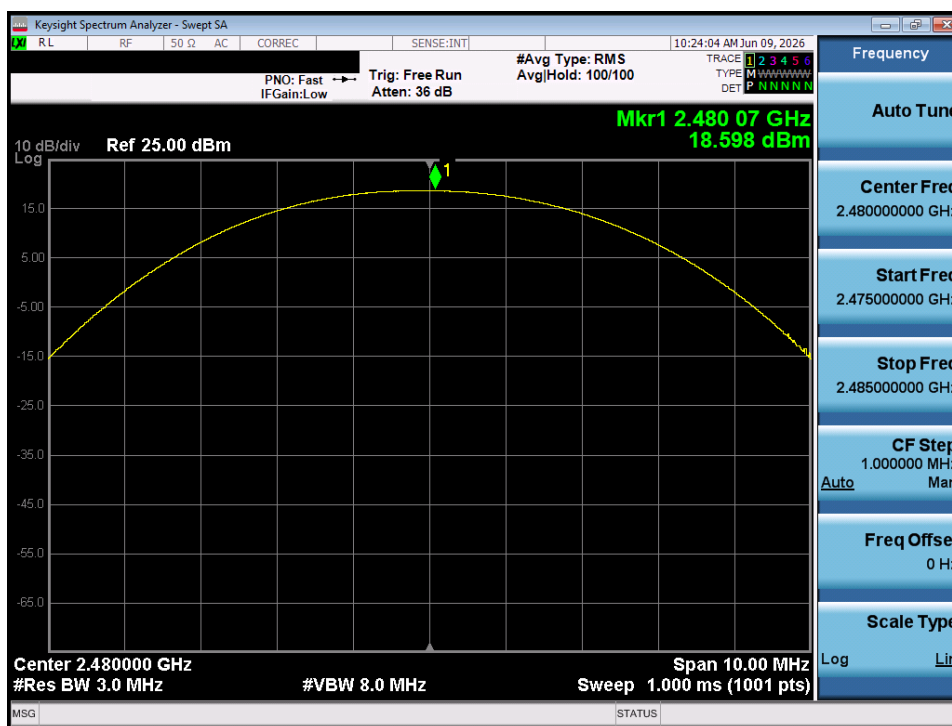


Plot 7-19. Peak Conducted Power (1Mbps – Ch. 0) – SISO CHAIN 1

FCC ID: C3K00002101 IC: 3048A-00002101		Test Dates: 4/16/2026-6/25/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
Test Report S/N: 1M2604150032-07-R2.C3K		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 25 of 68

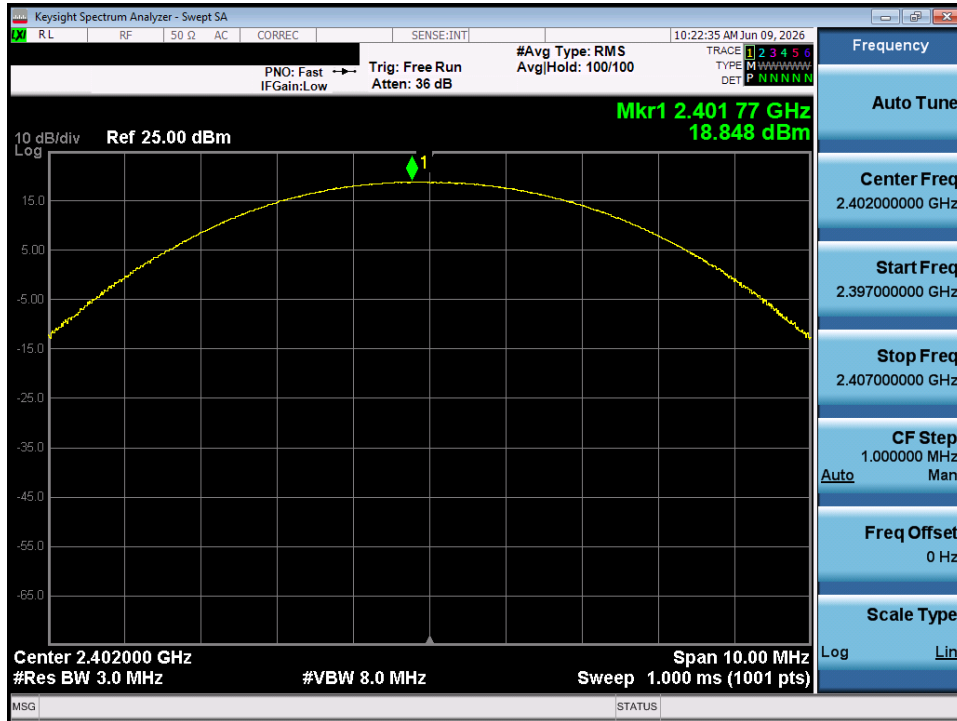


Plot 7-20. Peak Conducted Power (1Mbps - Ch. 39) - SISO CHAIN 1

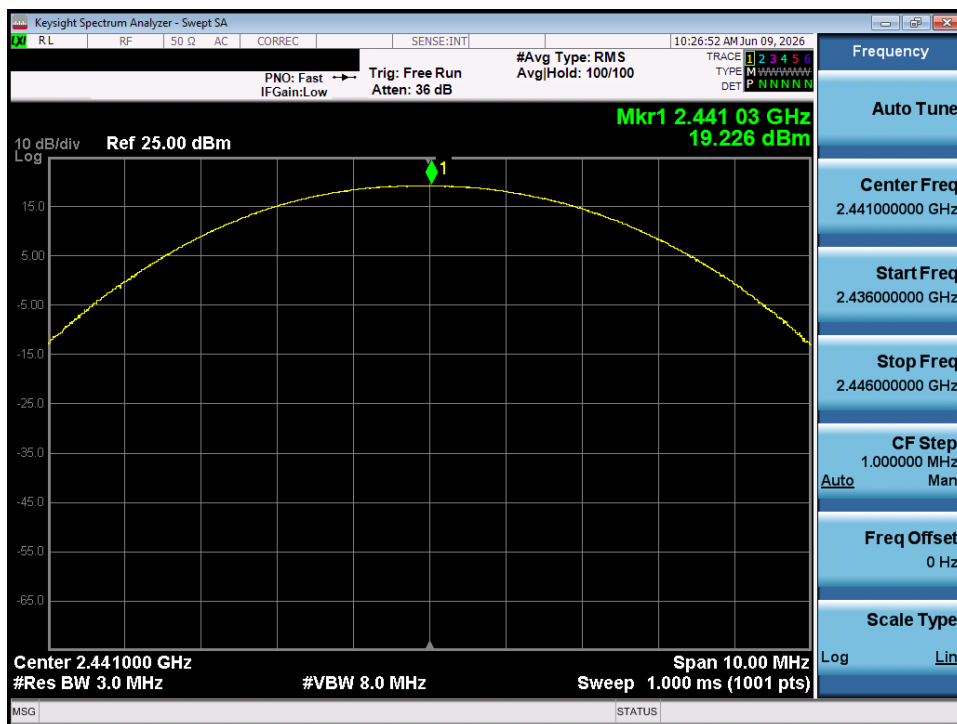


Plot 7-21. Peak Conducted Power (1Mbps - Ch. 78) - SISO CHAIN 1

FCC ID: C3K00002101 IC: 3048A-00002101		Test Dates: 4/16/2026-6/25/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
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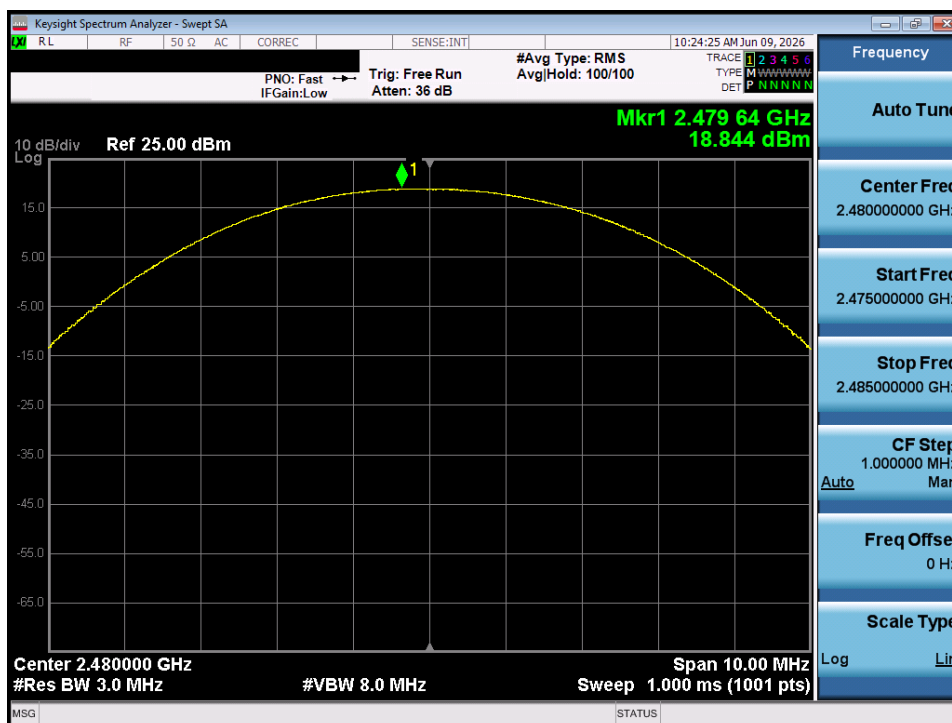


Plot 7-22. Peak Conducted Power (2Mbps – Ch. 0) – SISO CHAIN 1

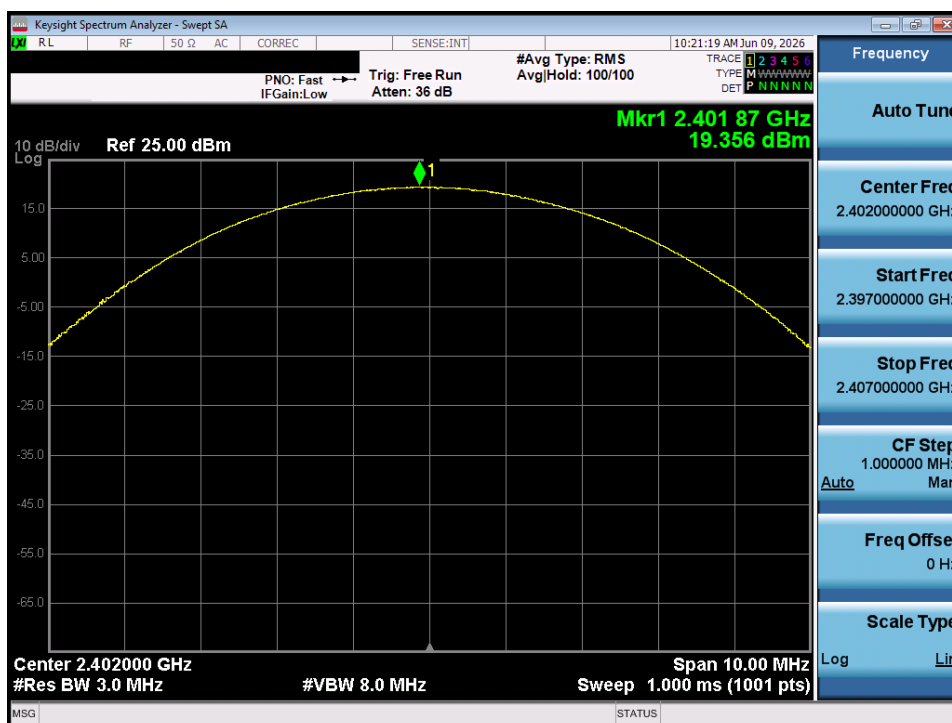


Plot 7-23. Peak Conducted Power (2Mbps – Ch. 39) – SISO CHAIN 1

FCC ID: C3K00002101 IC: 3048A-00002101		Test Dates: 4/16/2026-6/25/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
Test Report S/N: 1M2604150032-07-R2.C3K		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 27 of 68

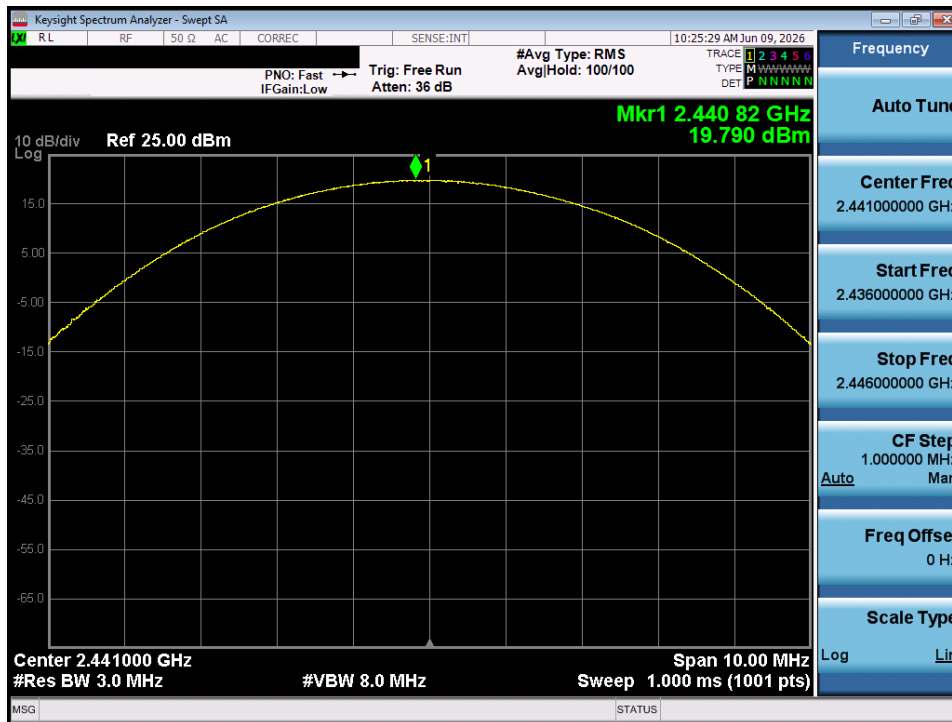


Plot 7-24. Peak Conducted Power (2Mbps – Ch. 78) – SISO CHAIN 1

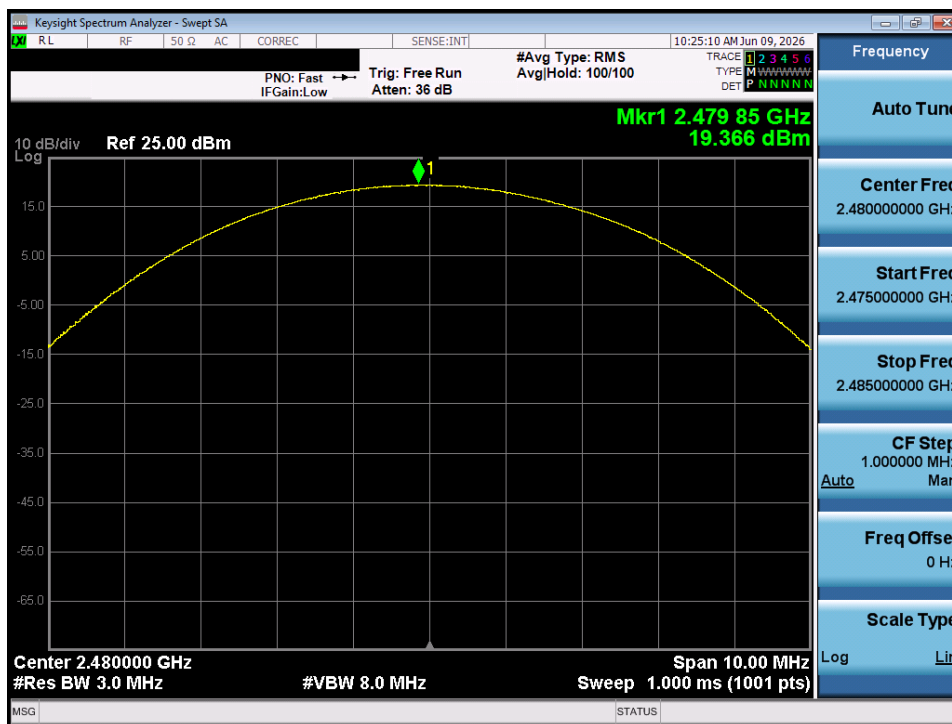


Plot 7-25. Peak Conducted Power (3Mbps – Ch. 0) – SISO CHAIN 1

FCC ID: C3K00002101 IC: 3048A-00002101		Test Dates: 4/16/2026-6/25/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
Test Report S/N: 1M2604150032-07-R2.C3K		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 28 of 68

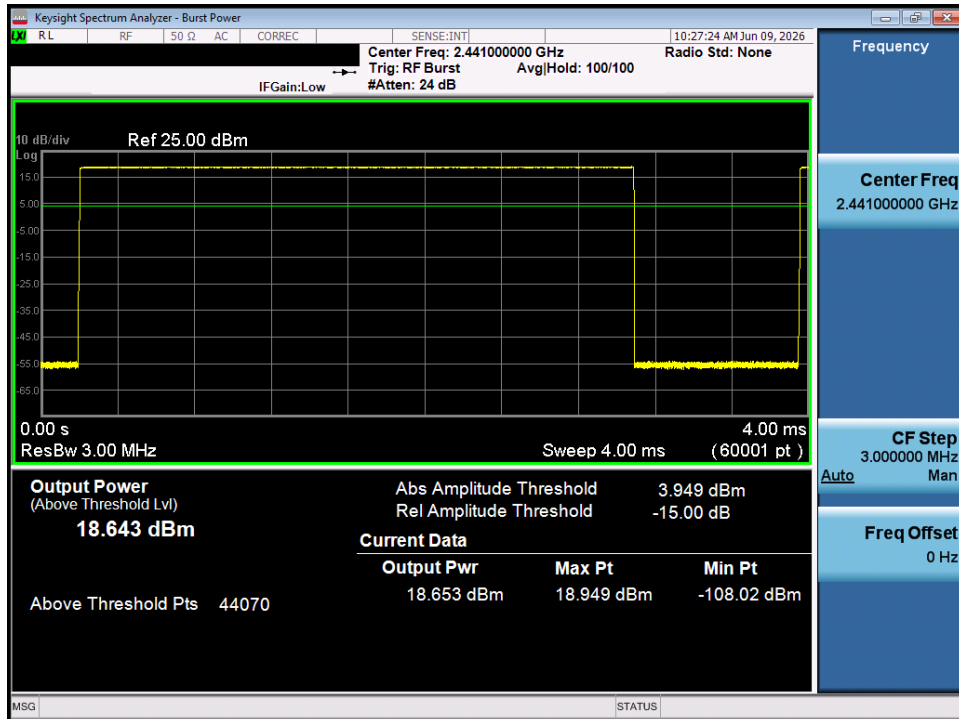
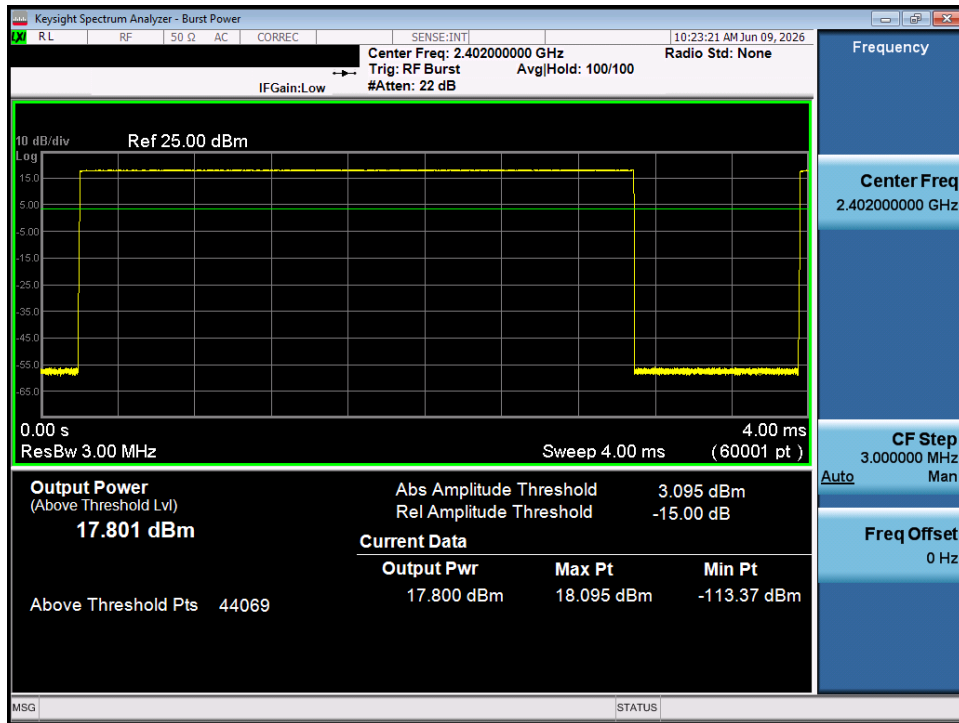


Plot 7-26. Peak Conducted Power (3Mbps - Ch. 39) - SISO CHAIN 1

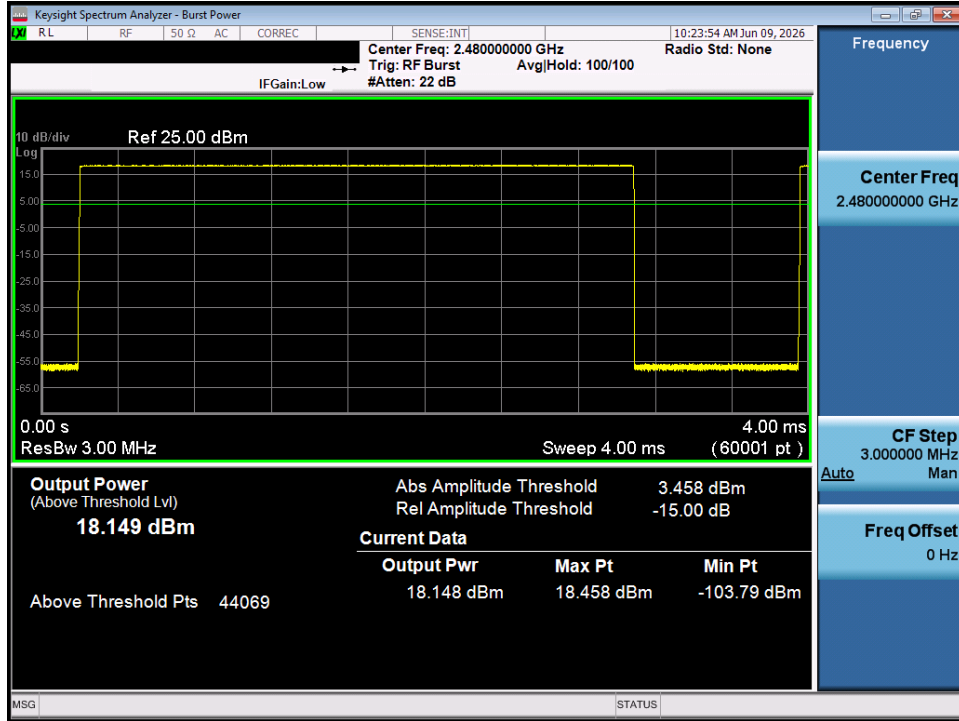


Plot 7-27. Peak Conducted Power (3Mbps - Ch. 78) - SISO CHAIN 1

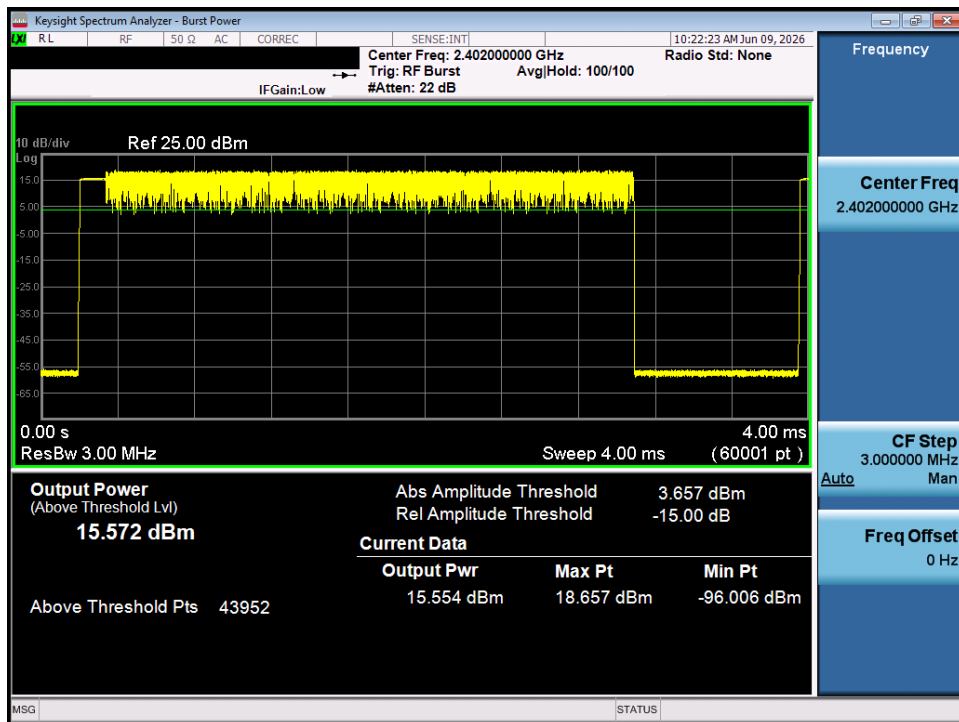
FCC ID: C3K00002101 IC: 3048A-00002101		Test Dates: 4/16/2026-6/25/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
Test Report S/N: 1M2604150032-07-R2.C3K		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 29 of 68



FCC ID: C3K00002101 IC: 3048A-00002101		Test Dates: 4/16/2026-6/25/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
Test Report S/N: 1M2604150032-07-R2.C3K		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 68

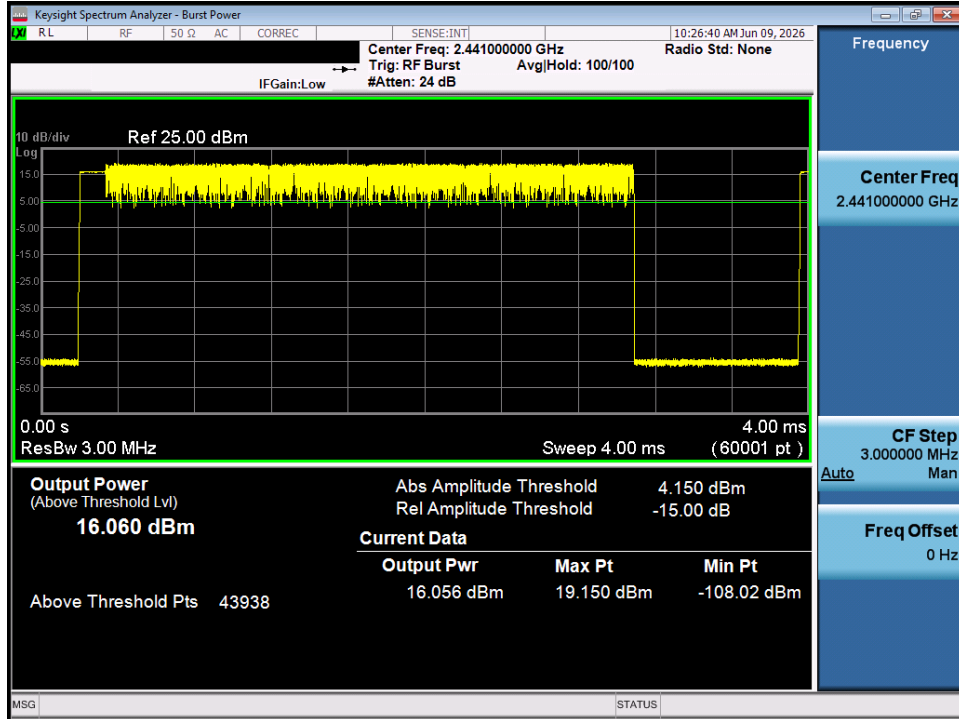


Plot 7-30. Average Conducted Power (1Mbps – Ch. 78) – SISO CHAIN 1

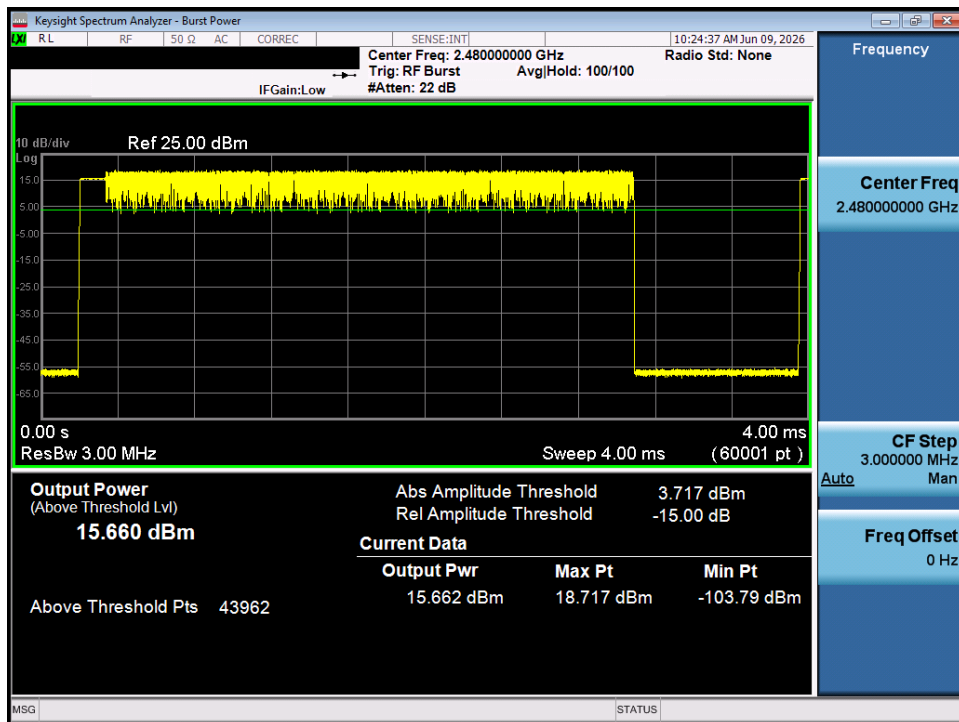


Plot 7-31. Average Conducted Power (2Mbps – Ch. 0) – SISO CHAIN 1

FCC ID: C3K00002101 IC: 3048A-00002101		Test Dates: 4/16/2026-6/25/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
Test Report S/N: 1M2604150032-07-R2.C3K		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 31 of 68

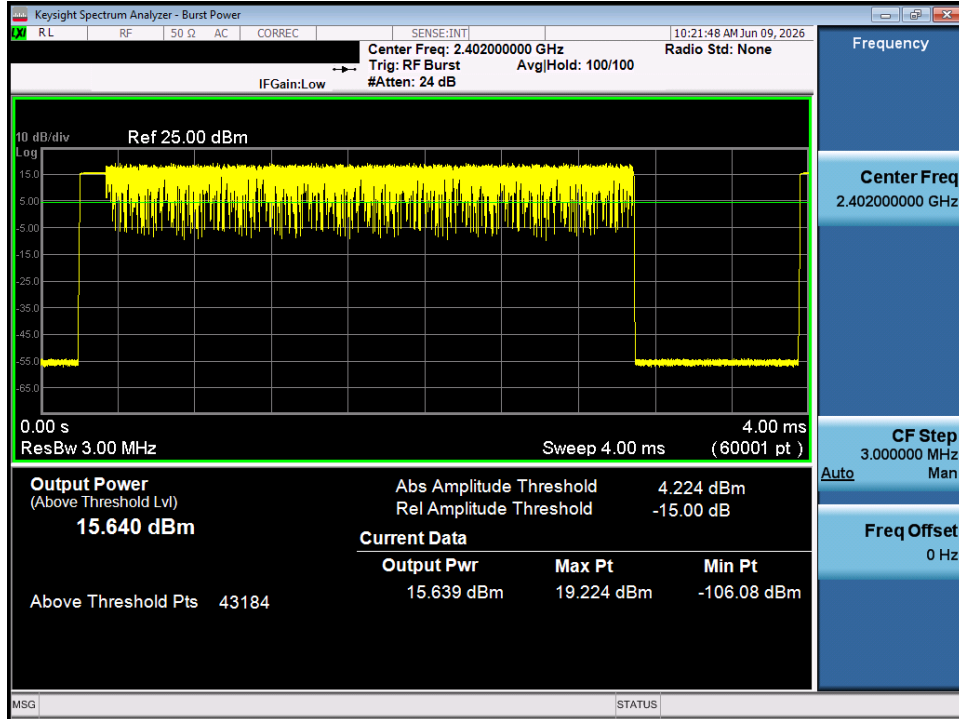


Plot 7-32. Average Conducted Power (2Mbps – Ch. 39) – SISO CHAIN 1

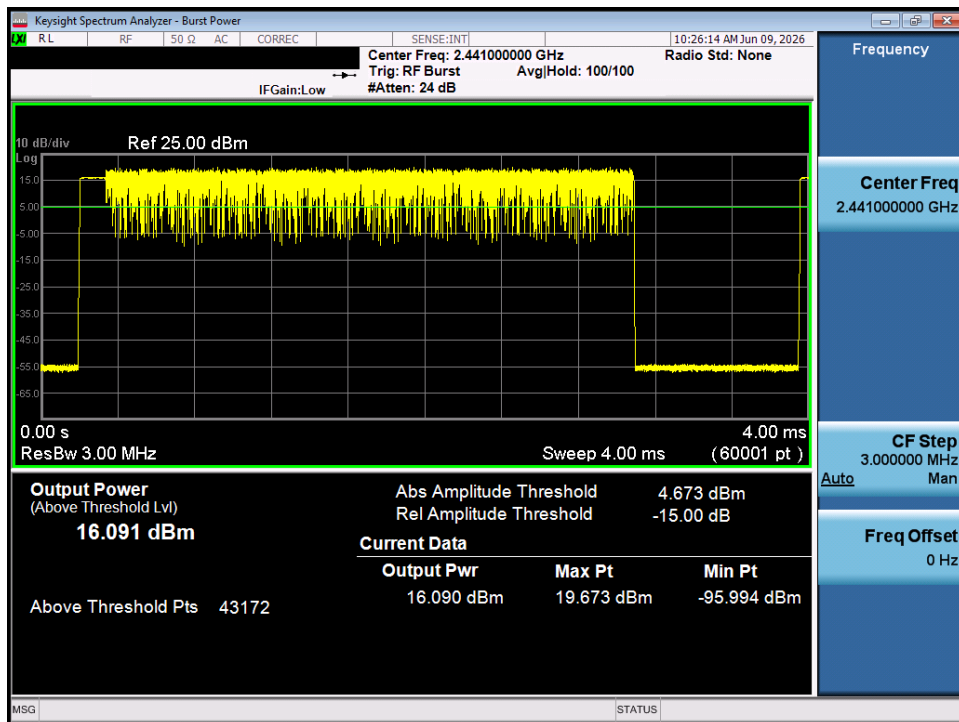


Plot 7-33. Average Conducted Power (2Mbps – Ch. 78) – SISO CHAIN 1

FCC ID: C3K00002101 IC: 3048A-00002101		Test Dates: 4/16/2026-6/25/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
Test Report S/N: 1M2604150032-07-R2.C3K		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 32 of 68

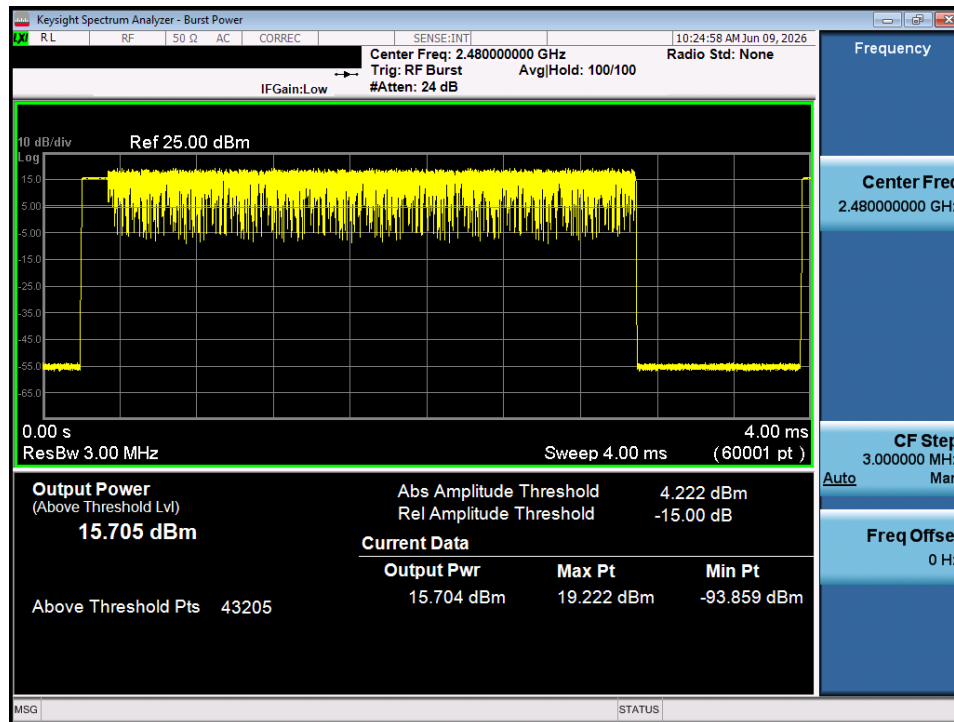


Plot 7-34. Average Conducted Power (3Mbps – Ch. 0) – SISO CHAIN 1



Plot 7-35. Average Conducted Power (3Mbps – Ch. 39) – SISO CHAIN 1

FCC ID: C3K00002101 IC: 3048A-00002101		Test Dates: 4/16/2026-6/25/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
Test Report S/N: 1M2604150032-07-R2.C3K		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 33 of 68



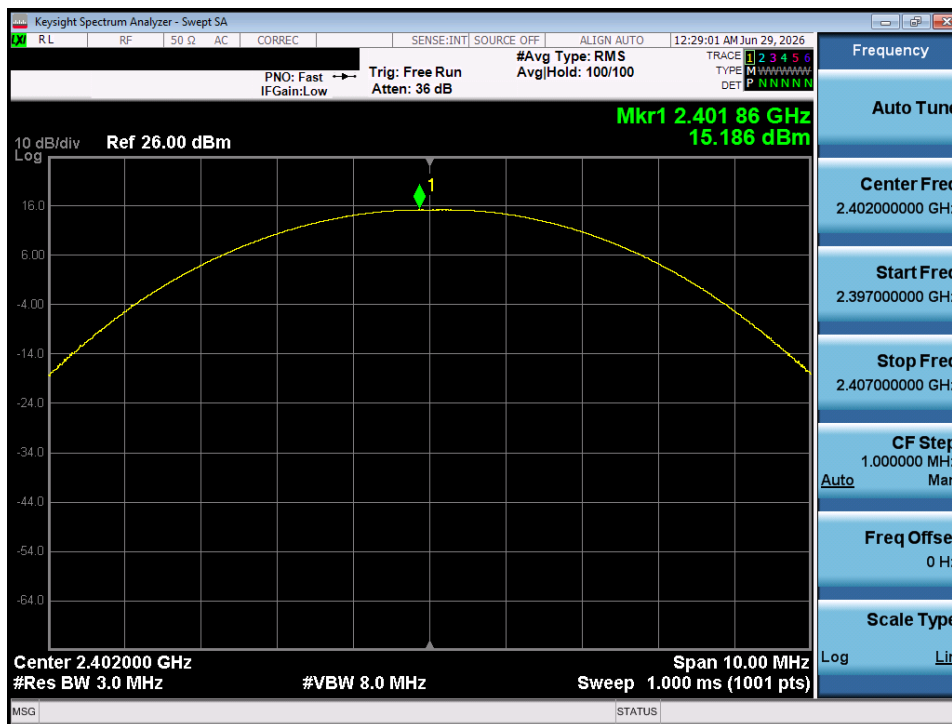
Plot 7-36. Average Conducted Power (3Mbps – Ch. 78) – SISO CHAIN 1

FCC ID: C3K00002101 IC: 3048A-00002101		Test Dates: 4/16/2026-6/25/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
Test Report S/N: 1M2604150032-07-R2.C3K		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 68

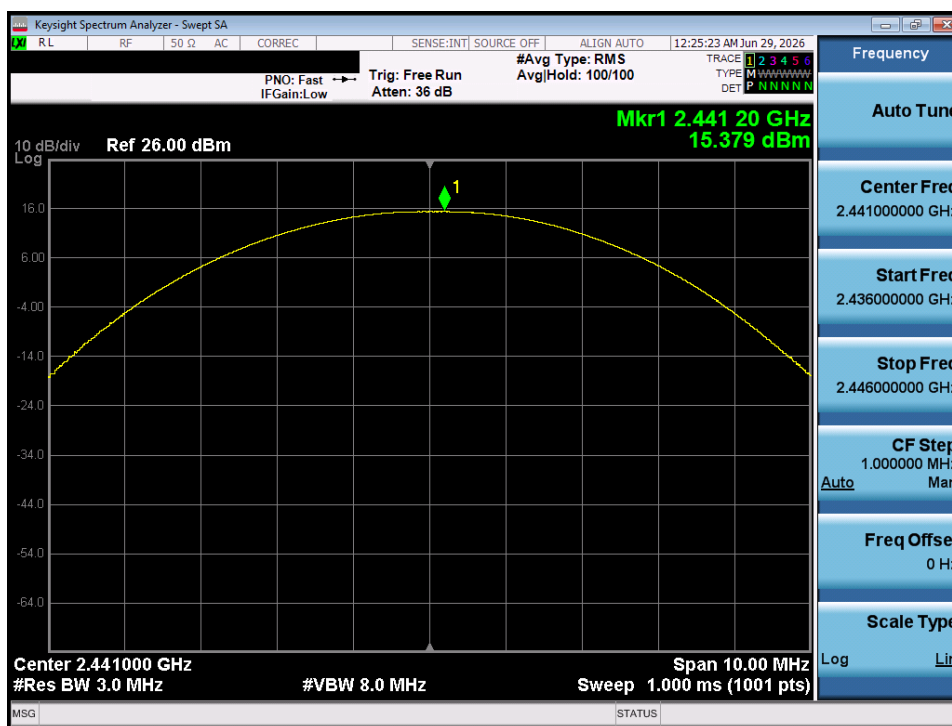
Frequency [MHz]	Data Rate [Mbps]	Channel No.	Peak Conducted Power - ANT1		Avg Conducted Power - ANT1		Peak Conducted Power - ANT2		Avg Conducted Power - ANT2		Peak Conducted Power - DUAL		Avg Conducted Power - DUAL		Ant. Gain [dBi]	EIRP [dBm]	Limit [dBm]	Margin [dB]
			[dBm]	[mW]	[dBm]	[mW]	[dBm]	[mW]	[dBm]	[mW]	[dBm]	[mW]	[dBm]	[mW]				
2402	1.0	0	15.19	33.007	14.97	31.399	15.24	33.404	15.00	31.631	18.22	66.411	18.00	63.029	5.67	23.89	36.02	-12.13
2441	1.0	39	15.38	34.506	15.25	33.504	15.90	38.931	15.78	37.858	18.66	73.438	18.53	71.363	5.67	24.33	36.02	-11.69
2480	1.0	78	14.02	25.258	13.69	23.377	14.56	28.602	14.22	26.420	17.31	53.860	16.97	49.797	5.67	22.98	36.02	-13.04
2402	2.0	0	14.14	25.912	11.57	14.366	14.31	27.002	11.78	15.078	17.24	52.914	14.69	29.444	5.67	22.91	36.02	-13.11
2441	2.0	39	14.55	28.477	12.16	16.447	15.02	31.761	12.71	18.668	17.80	60.239	15.45	35.114	5.67	23.47	36.02	-12.55
2480	2.0	78	13.26	21.169	10.72	11.810	13.75	23.714	11.39	13.773	16.52	44.883	14.08	25.584	5.67	22.19	36.02	-13.83
2402	3.0	0	14.56	28.556	11.64	14.601	14.69	29.437	11.85	15.316	17.63	57.994	14.76	29.917	5.67	23.30	36.02	-12.72
2441	3.0	39	14.86	30.606	12.32	17.045	15.29	33.822	12.87	19.347	18.09	64.428	15.61	36.391	5.67	23.76	36.02	-12.26
2480	3.0	78	13.57	22.725	10.78	11.958	14.10	25.710	11.44	13.933	16.85	48.435	14.13	25.890	5.67	22.52	36.02	-13.50

Table 7-4. Conducted Output Power Measurements – MIMO

FCC ID: C3K00002101 IC: 3048A-00002101		Test Dates: 4/16/2026-6/25/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
Test Report S/N: 1M2604150032-07-R2.C3K		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 68

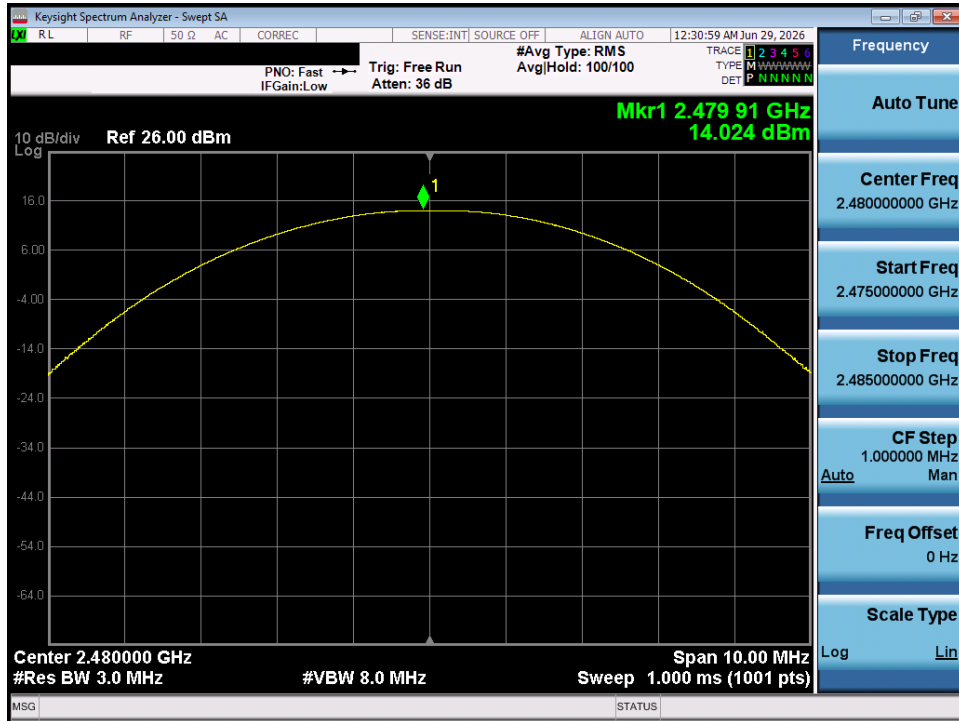


Plot 7-37. Peak Conducted Power (1Mbps – Ch. 0) – MIMO CHAIN 0

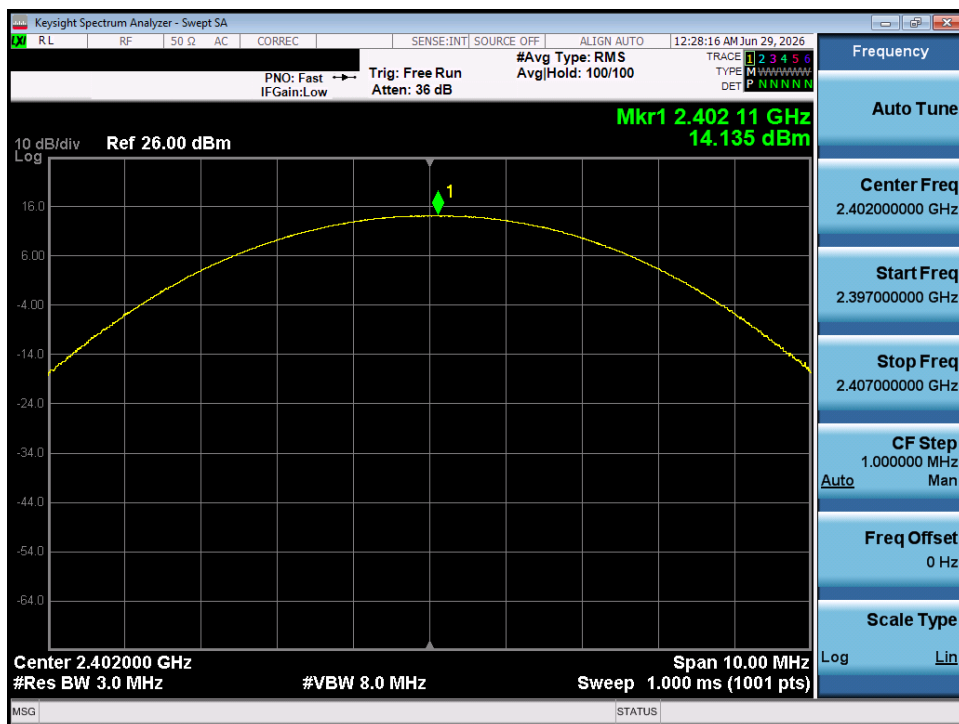


Plot 7-38. Peak Conducted Power (1Mbps – Ch. 39) – MIMO CHAIN 0

FCC ID: C3K00002101 IC: 3048A-00002101		Test Dates: 4/16/2026-6/25/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
Test Report S/N: 1M2604150032-07-R2.C3K		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 68

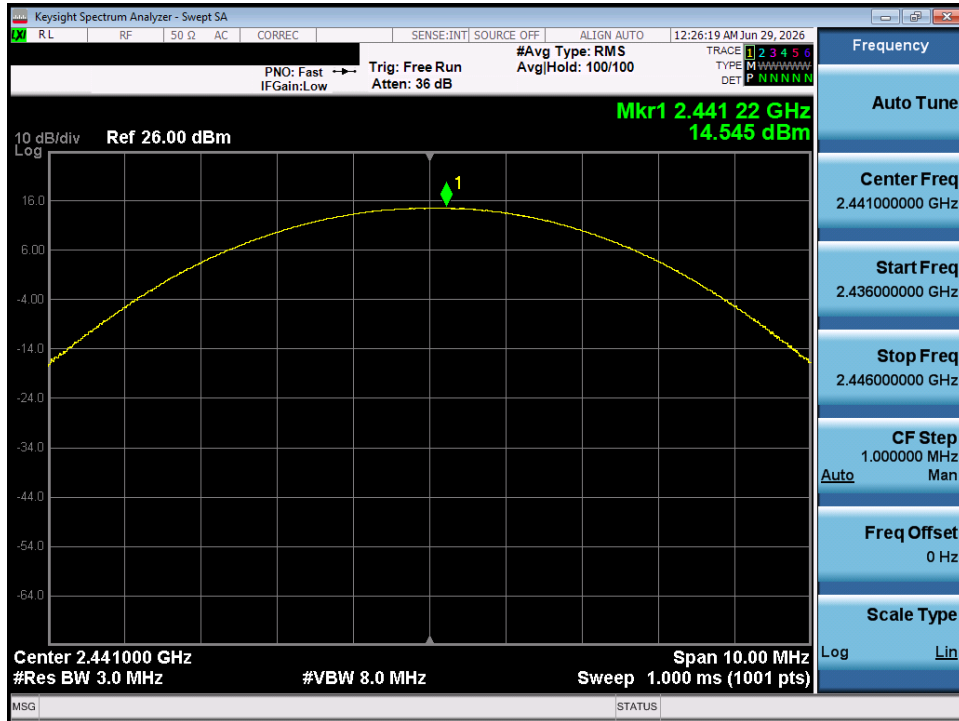


Plot 7-39. Peak Conducted Power (1Mbps – Ch. 78) – MIMO CHAIN 0

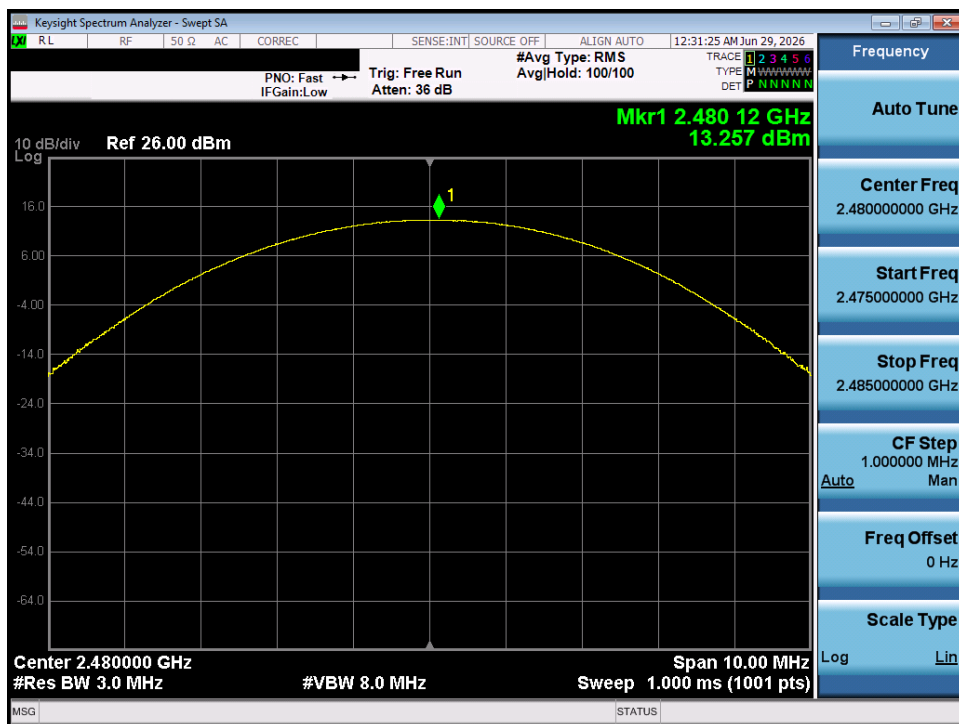


Plot 7-40. Peak Conducted Power (2Mbps – Ch. 0) – MIMO CHAIN 0

FCC ID: C3K00002101 IC: 3048A-00002101		Test Dates: 4/16/2026-6/25/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
Test Report S/N: 1M2604150032-07-R2.C3K		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 68

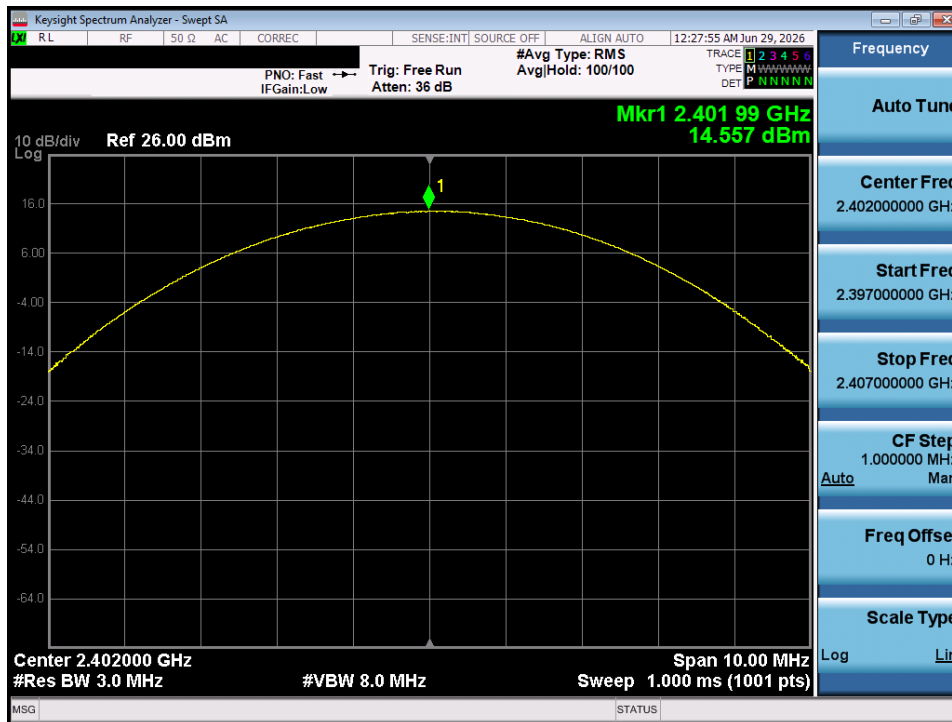


Plot 7-41. Peak Conducted Power (2Mbps – Ch. 39) – MIMO CHAIN 0

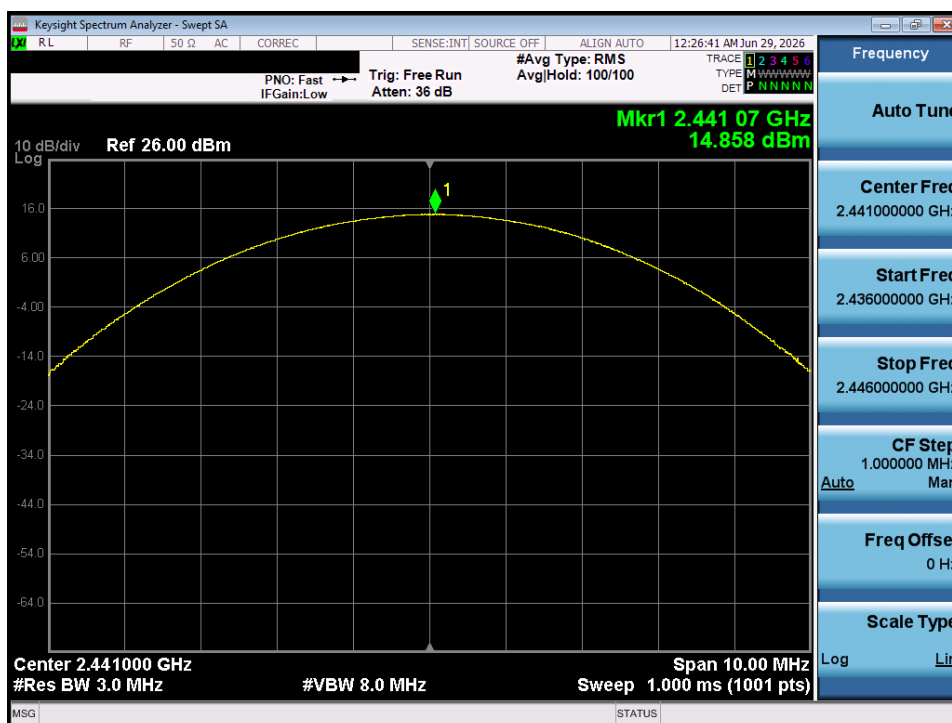


Plot 7-42. Peak Conducted Power (2Mbps – Ch. 78) – MIMO CHAIN 0

FCC ID: C3K00002101 IC: 3048A-00002101		Test Dates: 4/16/2026-6/25/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
Test Report S/N: 1M2604150032-07-R2.C3K		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 68

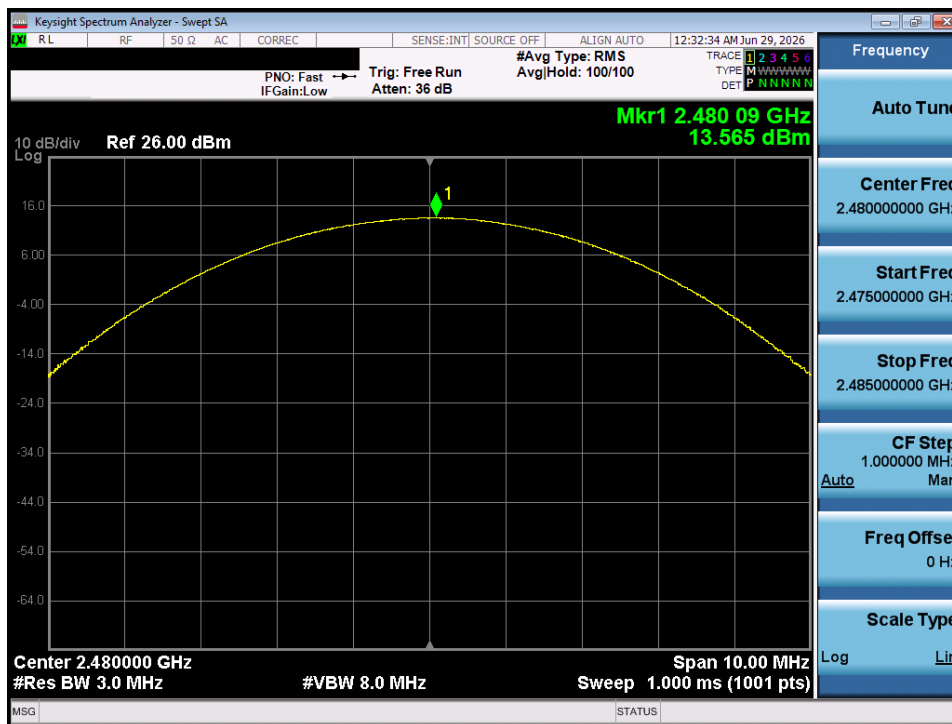


Plot 7-43. Peak Conducted Power (3Mbps – Ch. 0) – MIMO CHAIN 0

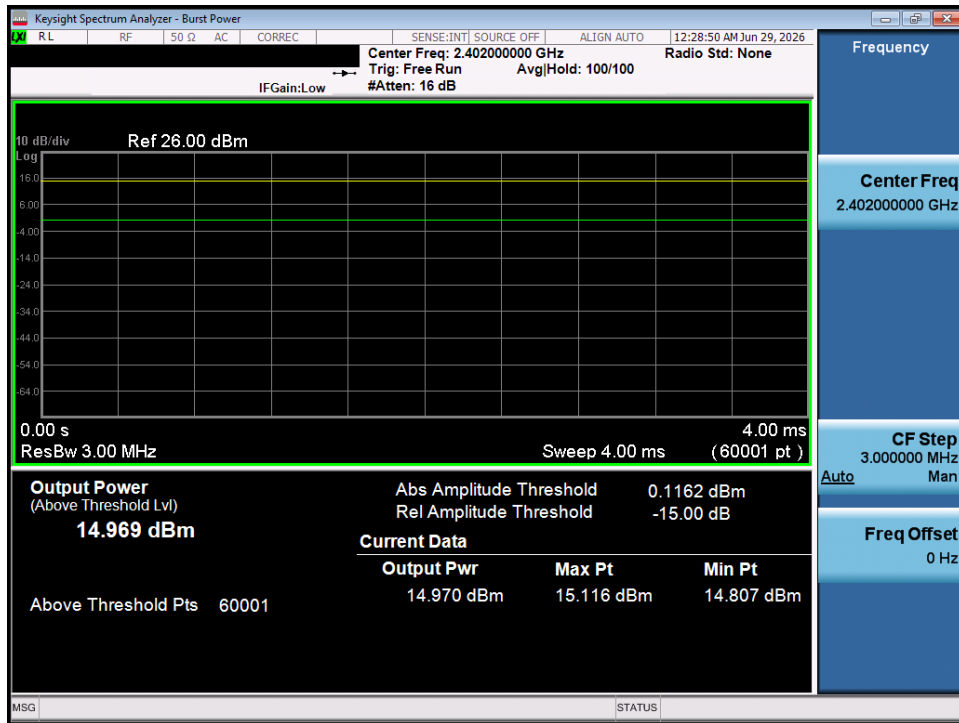


Plot 7-44. Peak Conducted Power (3Mbps – Ch. 39) – MIMO CHAIN 0

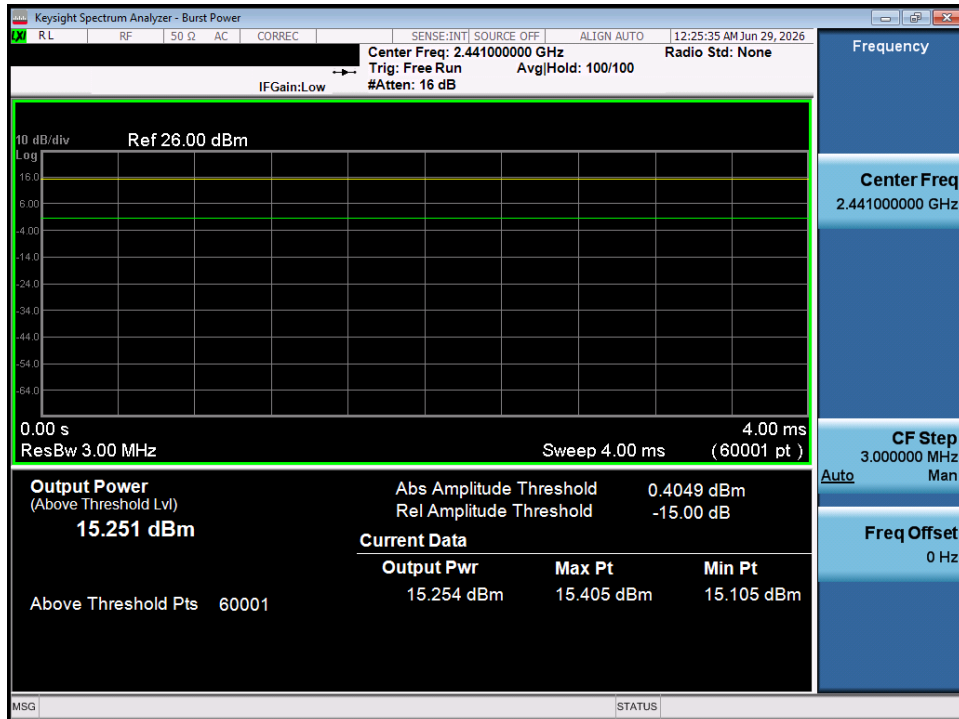
FCC ID: C3K00002101 IC: 3048A-00002101		Test Dates: 4/16/2026-6/25/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
Test Report S/N: 1M2604150032-07-R2.C3K		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 39 of 68



FCC ID: C3K00002101 IC: 3048A-00002101		Test Dates: 4/16/2026-6/25/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
Test Report S/N: 1M2604150032-07-R2.C3K		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 40 of 68

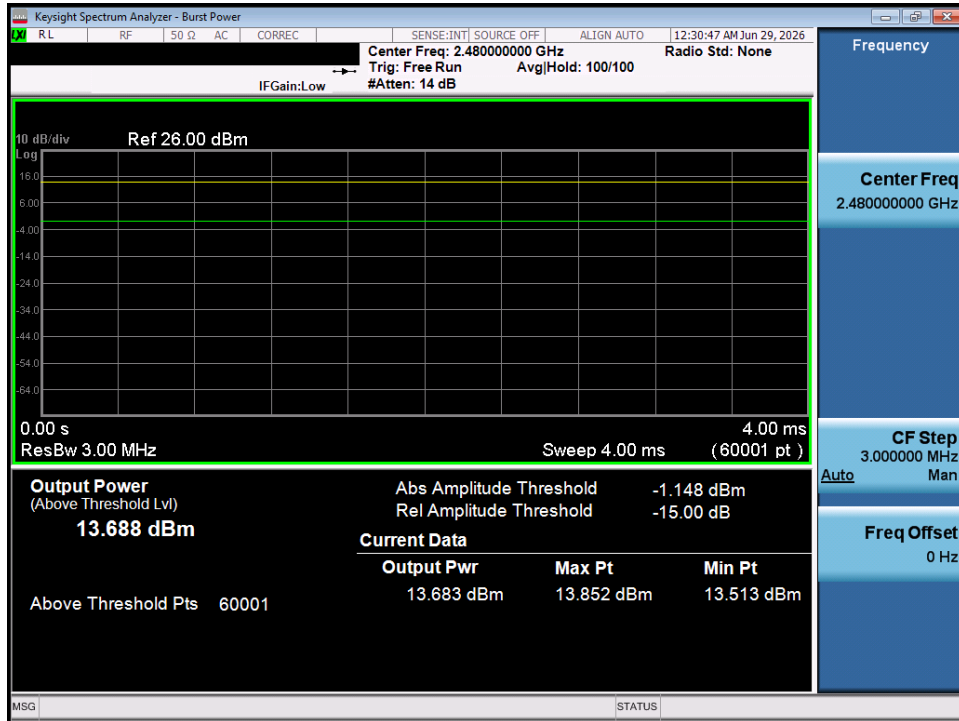


Plot 7-46. Average Conducted Power (1Mbps – Ch. 0) – MIMO CHAIN 0

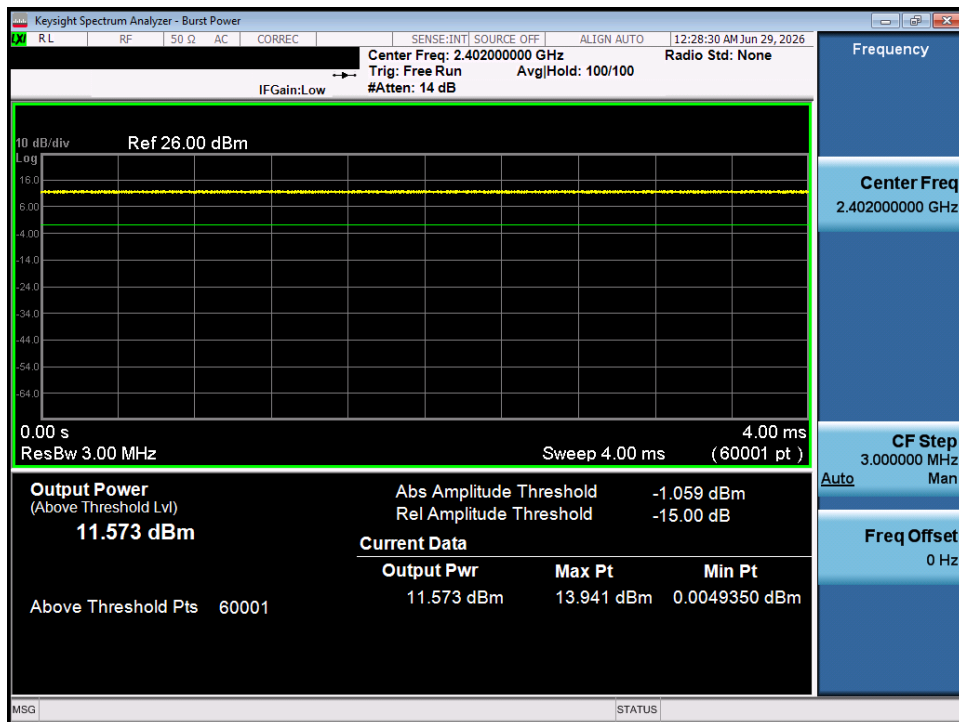


Plot 7-47. Average Conducted Power (1Mbps – Ch. 39) – MIMO CHAIN 0

FCC ID: C3K00002101 IC: 3048A-00002101		Test Dates: 4/16/2026-6/25/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
Test Report S/N: 1M2604150032-07-R2.C3K		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 68

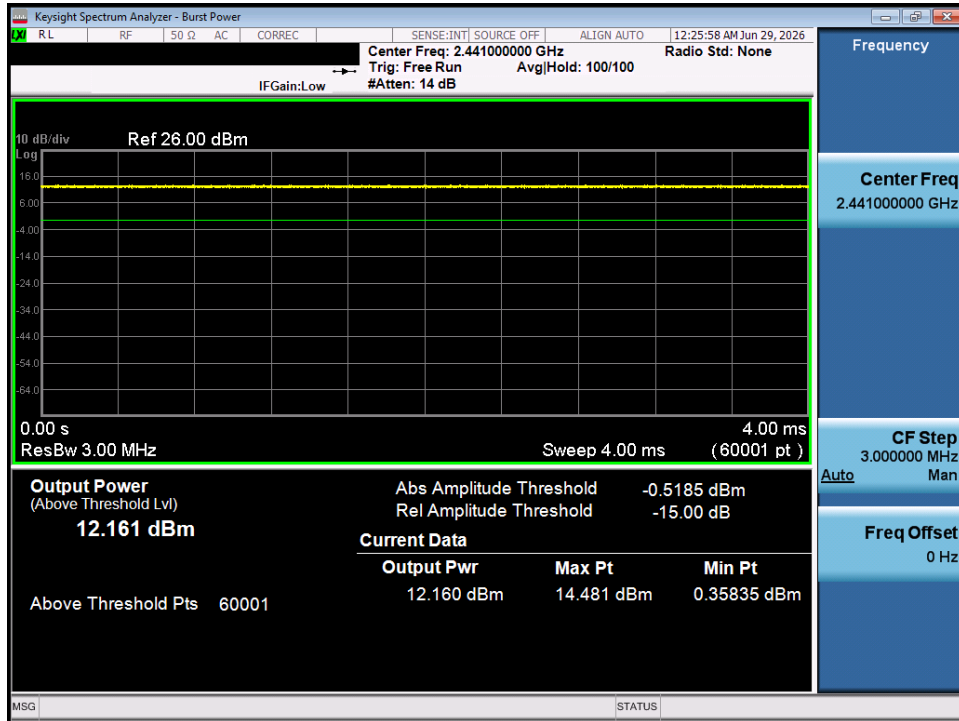


Plot 7-48. Average Conducted Power (1Mbps – Ch. 78) – MIMO CHAIN 0

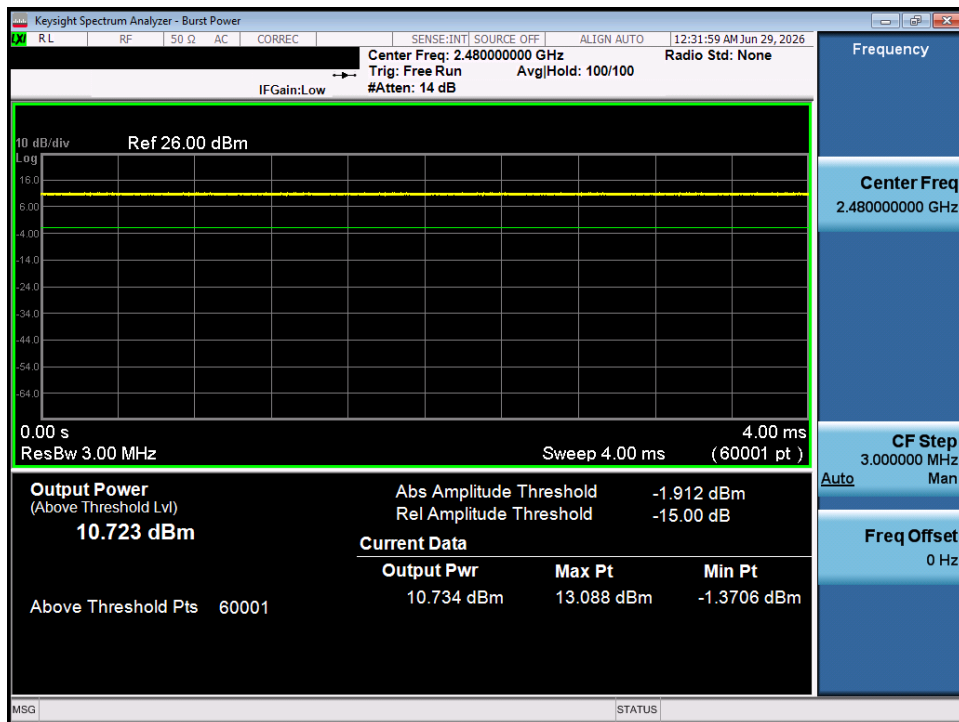


Plot 7-49. Average Conducted Power (2Mbps – Ch. 0) – MIMO CHAIN 0

FCC ID: C3K00002101 IC: 3048A-00002101		Test Dates: 4/16/2026-6/25/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
Test Report S/N: 1M2604150032-07-R2.C3K		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 68

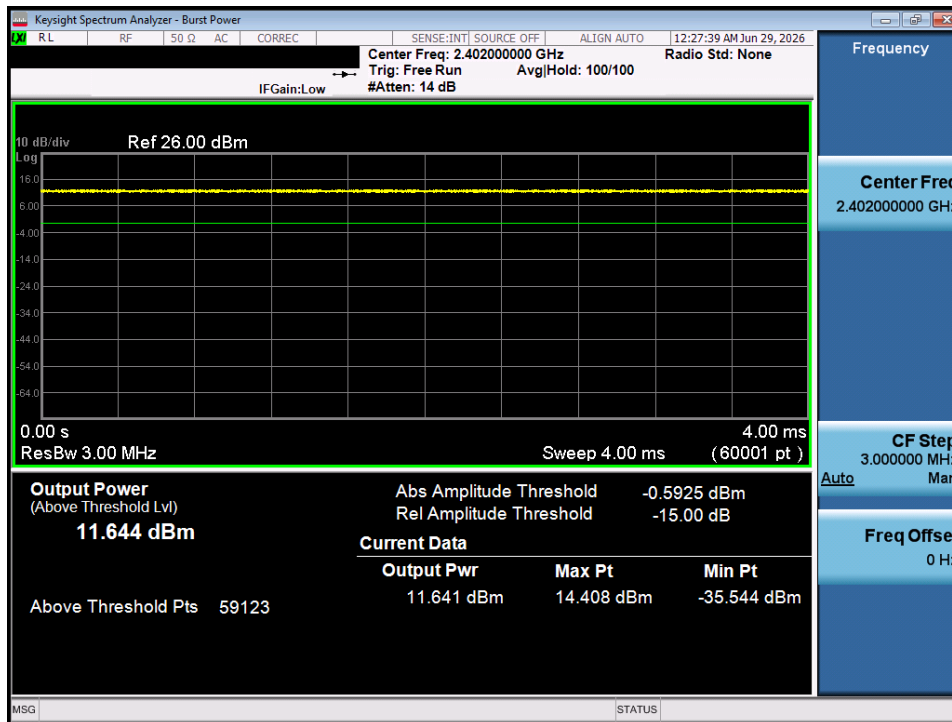


Plot 7-50. Average Conducted Power (2Mbps – Ch. 39) – MIMO CHAIN 0

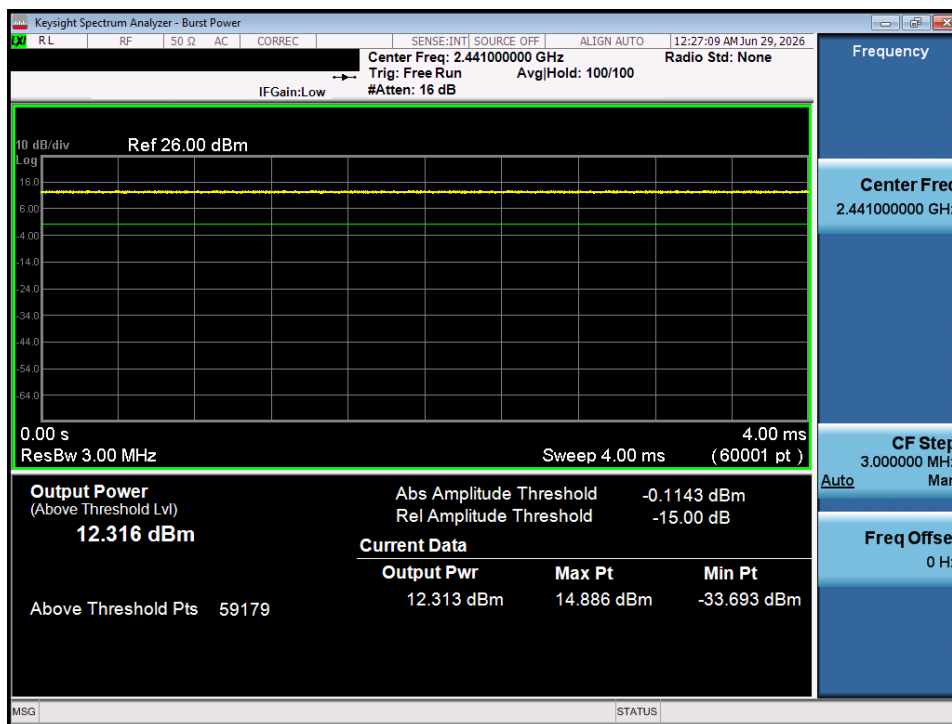


Plot 7-51. Average Conducted Power (2Mbps – Ch. 78) – MIMO CHAIN 0

FCC ID: C3K00002101 IC: 3048A-00002101		Test Dates: 4/16/2026-6/25/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
Test Report S/N: 1M2604150032-07-R2.C3K		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 68

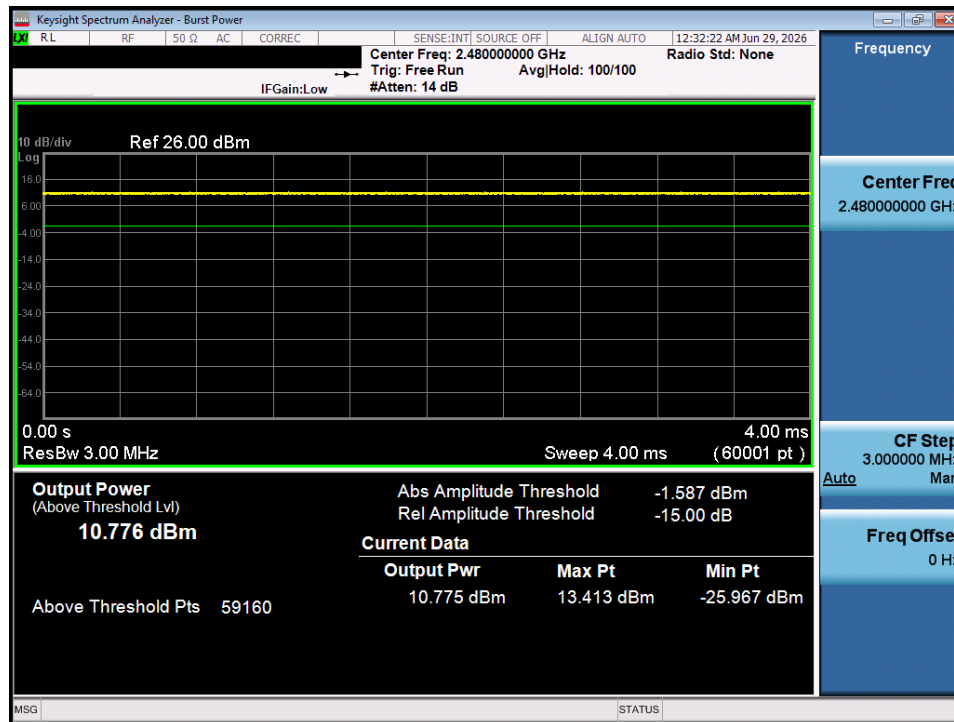


Plot 7-52. Average Conducted Power (3Mbps - Ch. 0) - MIMO CHAIN 0



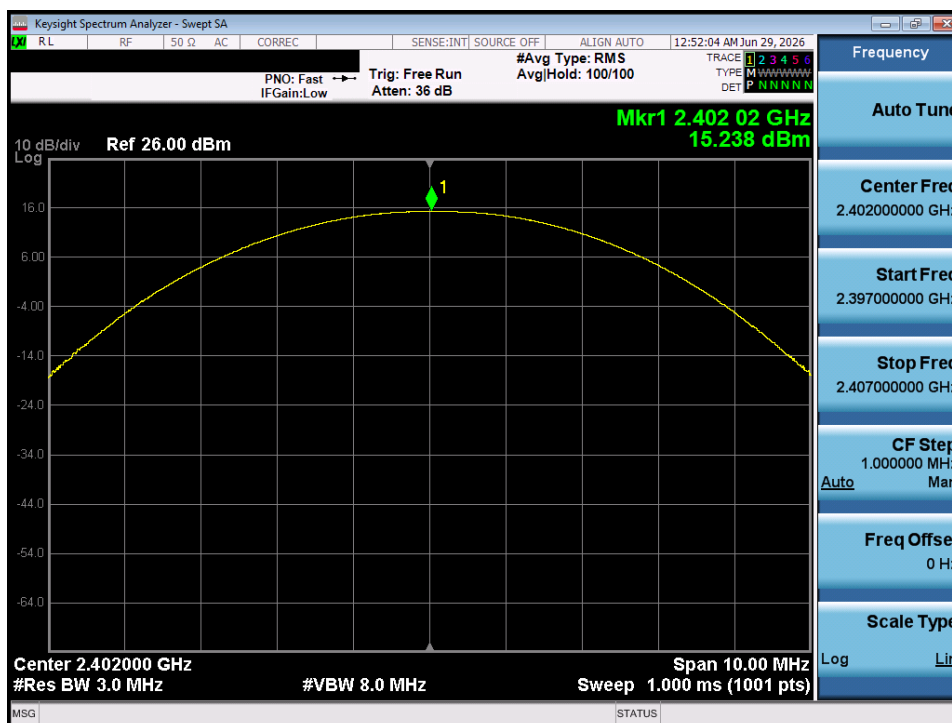
Plot 7-53. Average Conducted Power (3Mbps - Ch. 39) - MIMO CHAIN 0

FCC ID: C3K00002101 IC: 3048A-00002101		Test Dates: 4/16/2026-6/25/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
Test Report S/N: 1M2604150032-07-R2.C3K		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 68

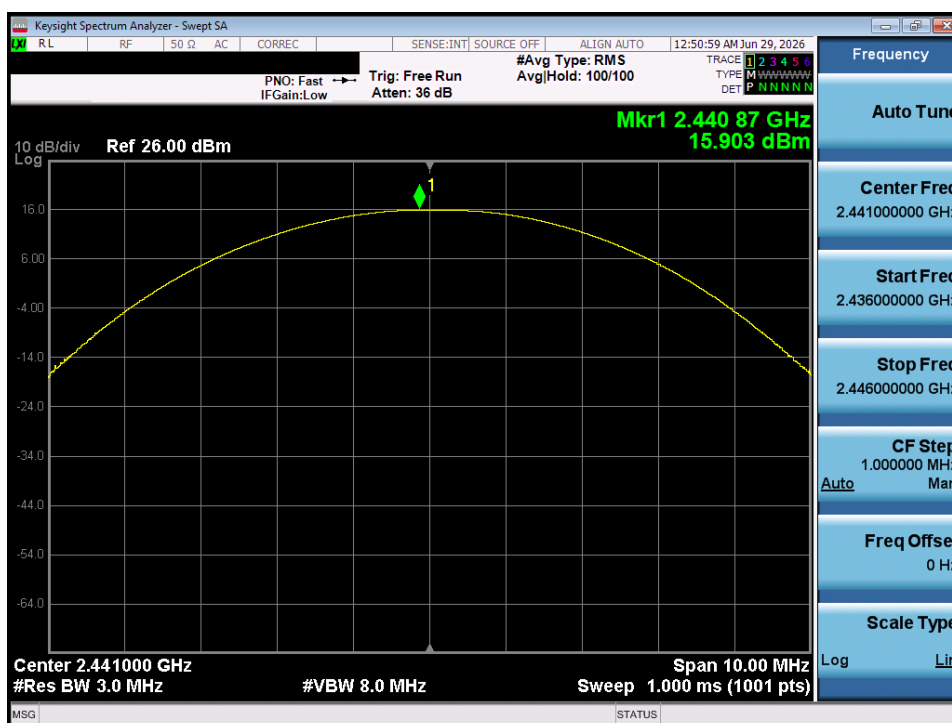


Plot 7-54. Average Conducted Power (3Mbps – Ch. 78) – MIMO CHAIN 0

FCC ID: C3K00002101 IC: 3048A-00002101		Test Dates: 4/16/2026-6/25/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
Test Report S/N: 1M2604150032-07-R2.C3K		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 68

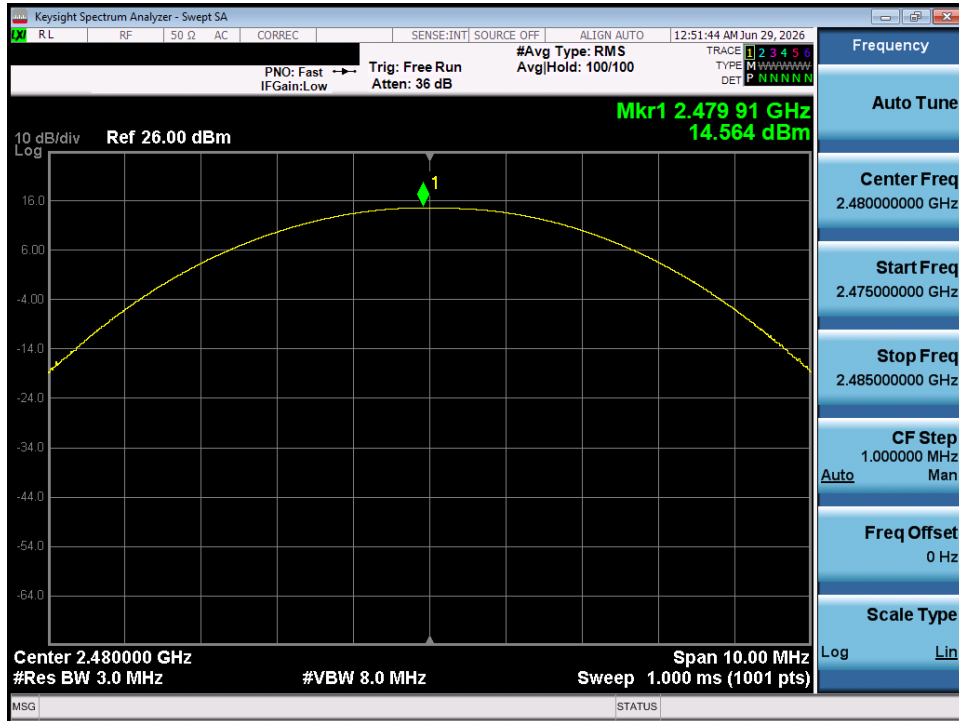


Plot 7-55. Peak Conducted Power (1Mbps – Ch. 0) – MIMO CHAIN 1

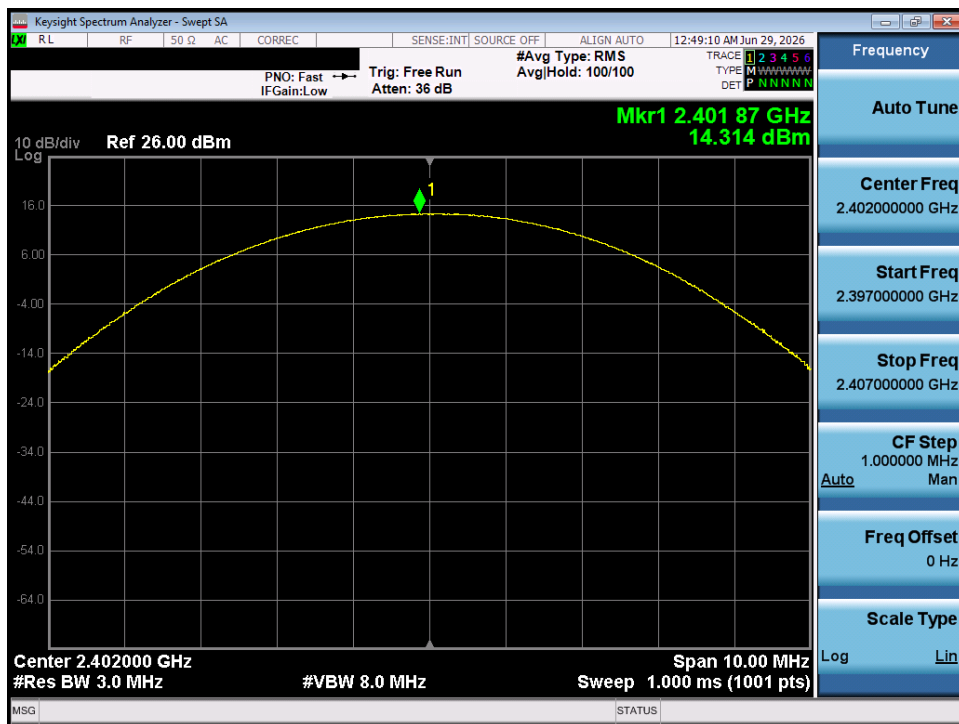


Plot 7-56. Peak Conducted Power (1Mbps – Ch. 39) – MIMO CHAIN 1

FCC ID: C3K00002101 IC: 3048A-00002101		Test Dates: 4/16/2026-6/25/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
Test Report S/N: 1M2604150032-07-R2.C3K		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 46 of 68

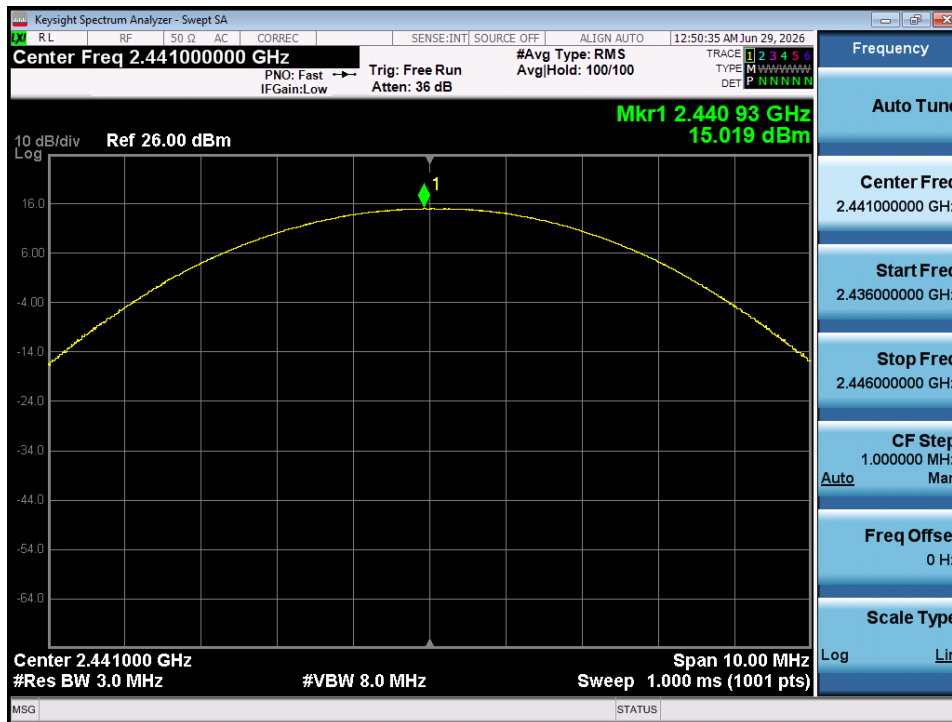


Plot 7-57. Peak Conducted Power (1Mbps – Ch. 78) – MIMO CHAIN 1

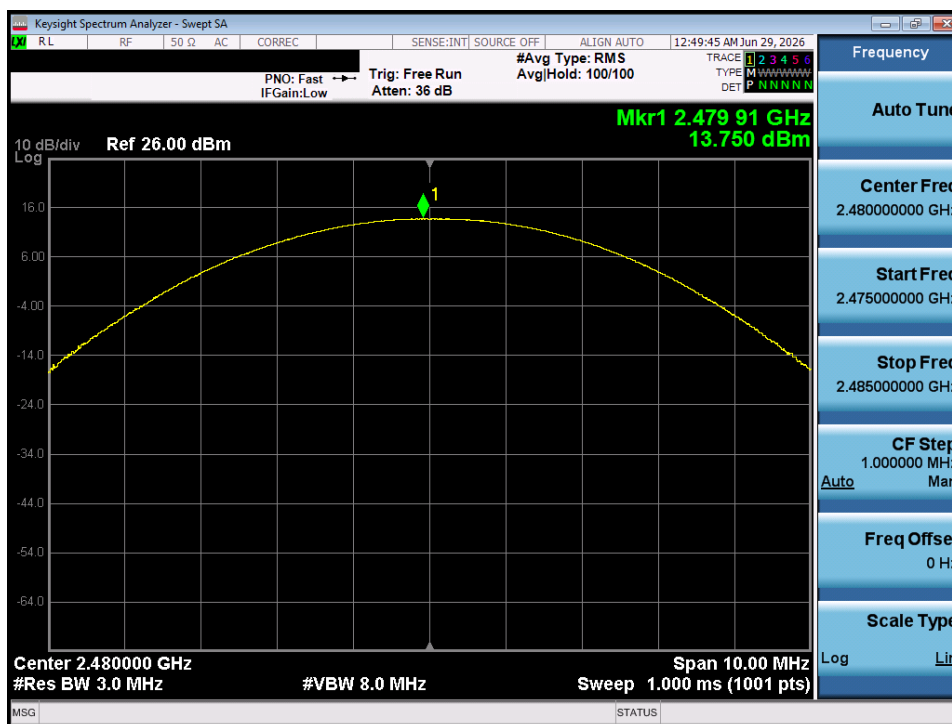


Plot 7-58. Peak Conducted Power (2Mbps – Ch. 0) – MIMO CHAIN 1

FCC ID: C3K00002101 IC: 3048A-00002101		Test Dates: 4/16/2026-6/25/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
Test Report S/N: 1M2604150032-07-R2.C3K		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 68

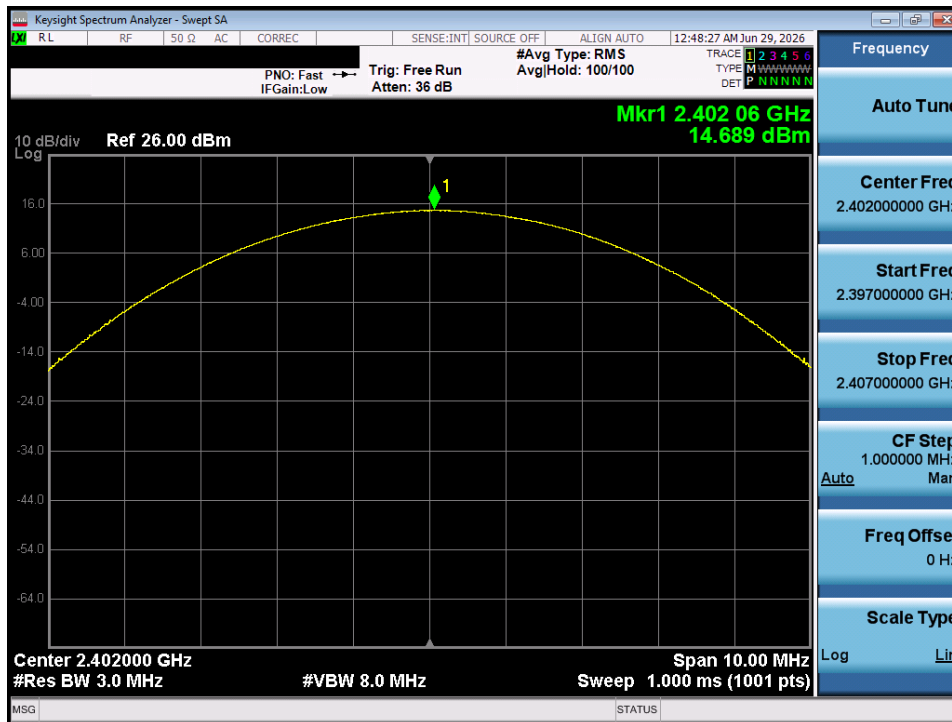


Plot 7-59. Peak Conducted Power (2Mbps – Ch. 39) – MIMO CHAIN 1

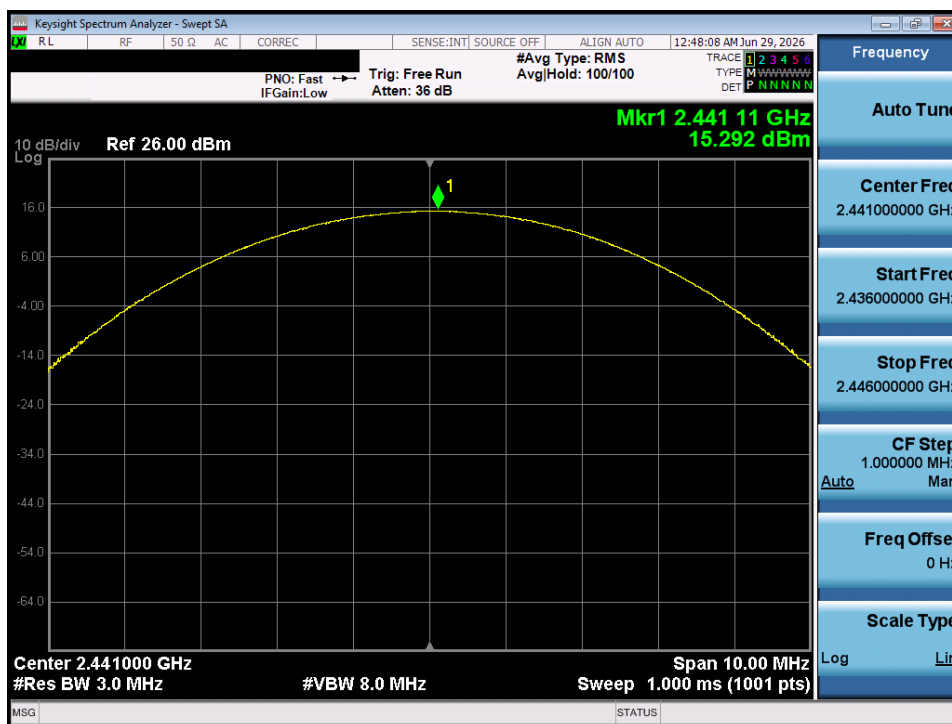


Plot 7-60. Peak Conducted Power (2Mbps – Ch. 78) – MIMO CHAIN 1

FCC ID: C3K00002101 IC: 3048A-00002101		Test Dates: 4/16/2026-6/25/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
Test Report S/N: 1M2604150032-07-R2.C3K		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 68

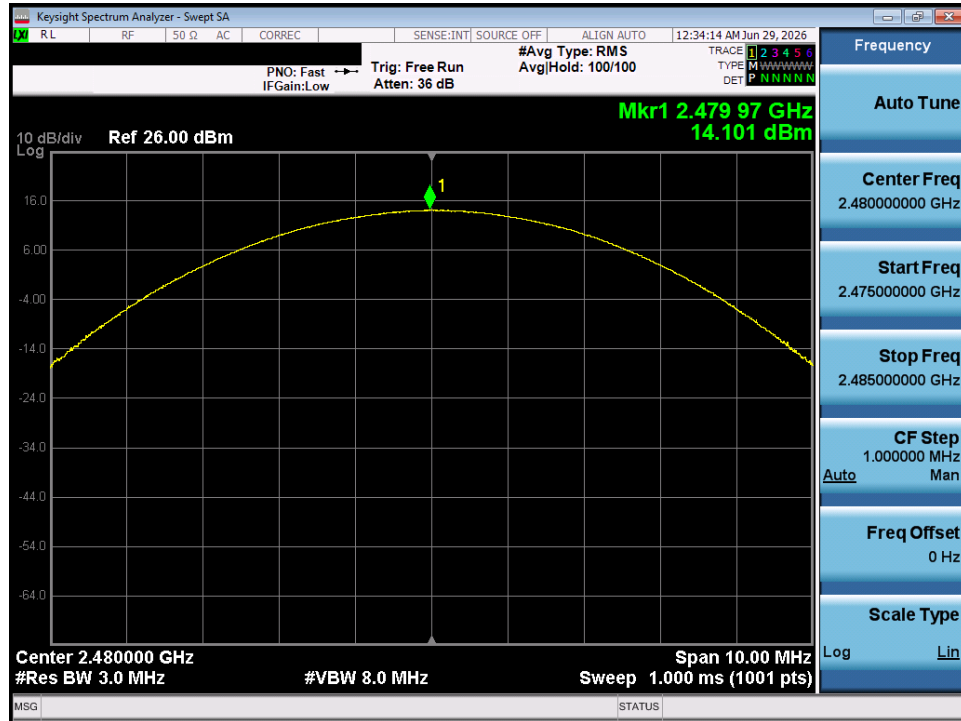


Plot 7-61. Peak Conducted Power (3Mbps – Ch. 0) – MIMO CHAIN 1



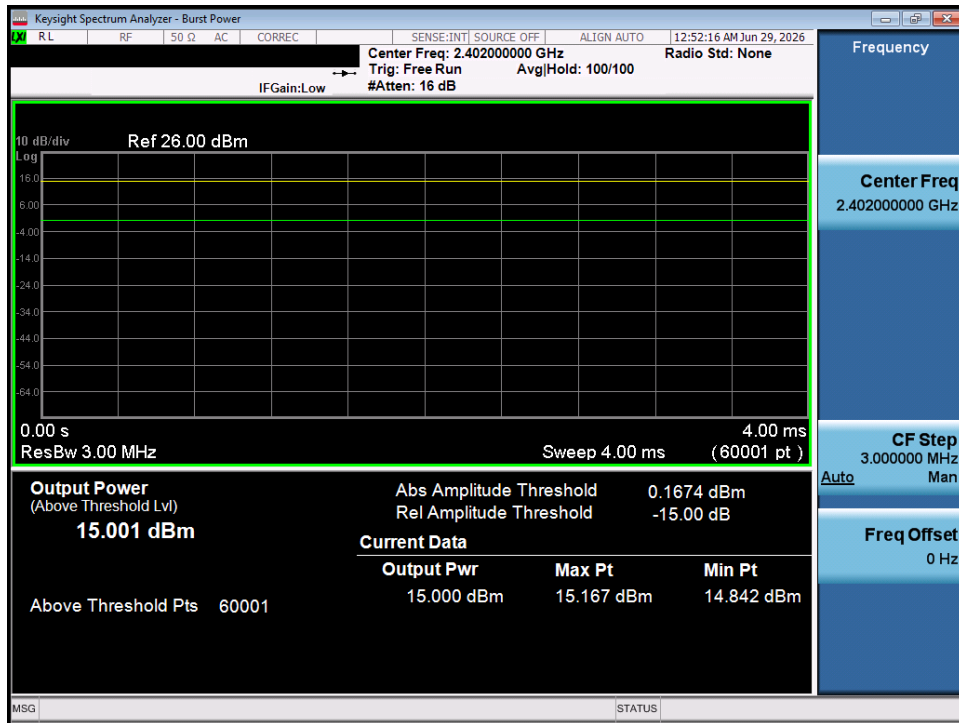
Plot 7-62. Peak Conducted Power (3Mbps – Ch. 39) – MIMO CHAIN 1

FCC ID: C3K00002101 IC: 3048A-00002101		Test Dates: 4/16/2026-6/25/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
Test Report S/N: 1M2604150032-07-R2.C3K		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 68

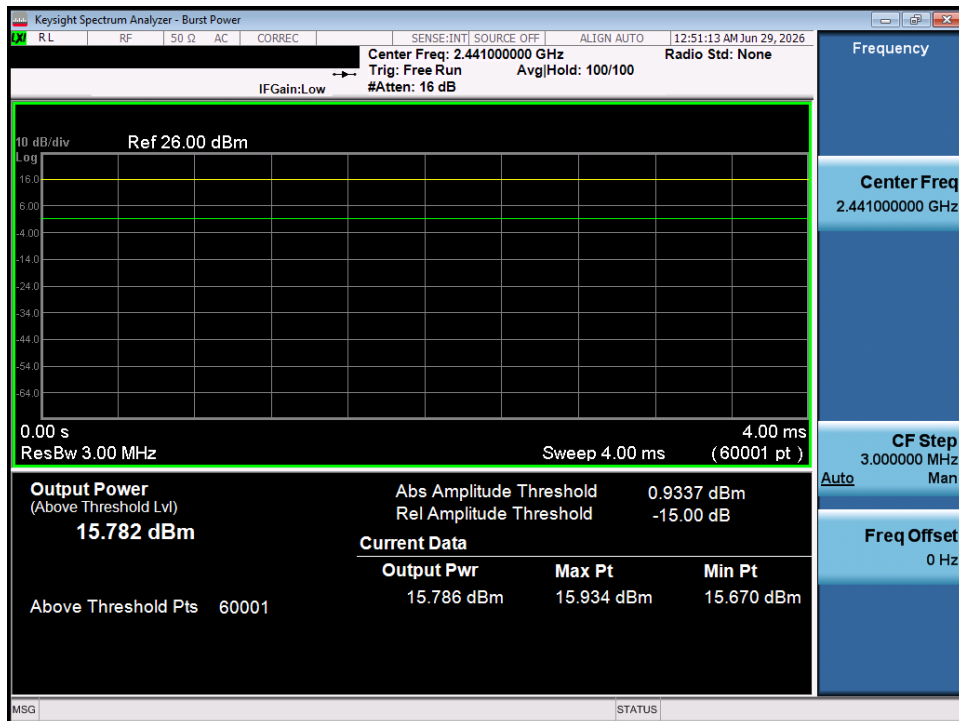


Plot 7-63. Peak Conducted Power (3Mbps – Ch. 78) – MIMO CHAIN 1

FCC ID: C3K00002101 IC: 3048A-00002101		Test Dates: 4/16/2026-6/25/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
Test Report S/N: 1M2604150032-07-R2.C3K		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 68

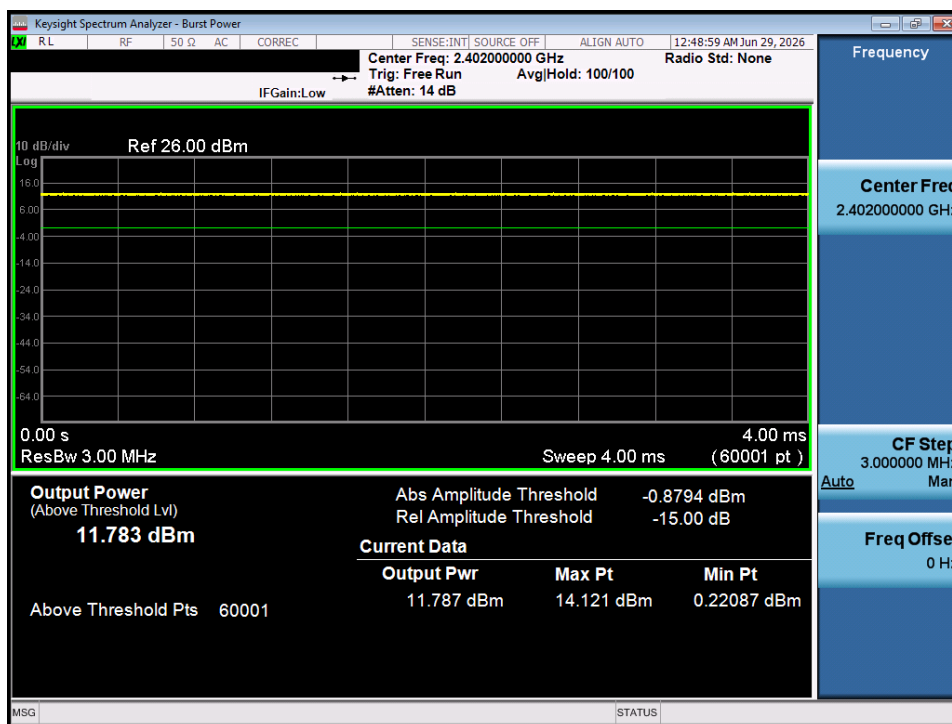
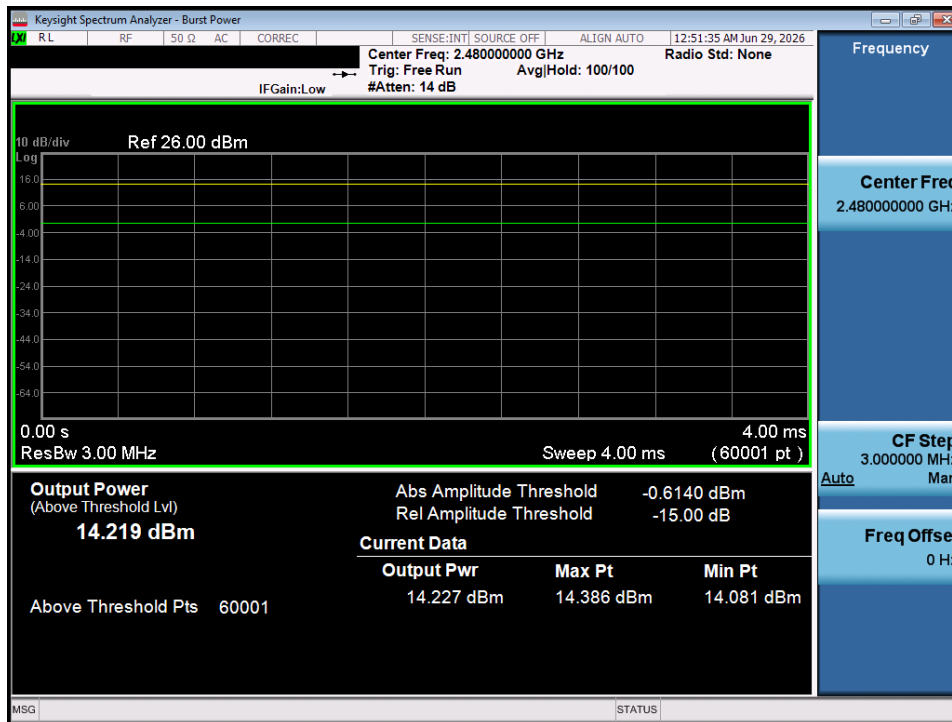


Plot 7-64. Average Conducted Power (1Mbps – Ch. 0) – MIMO CHAIN 1

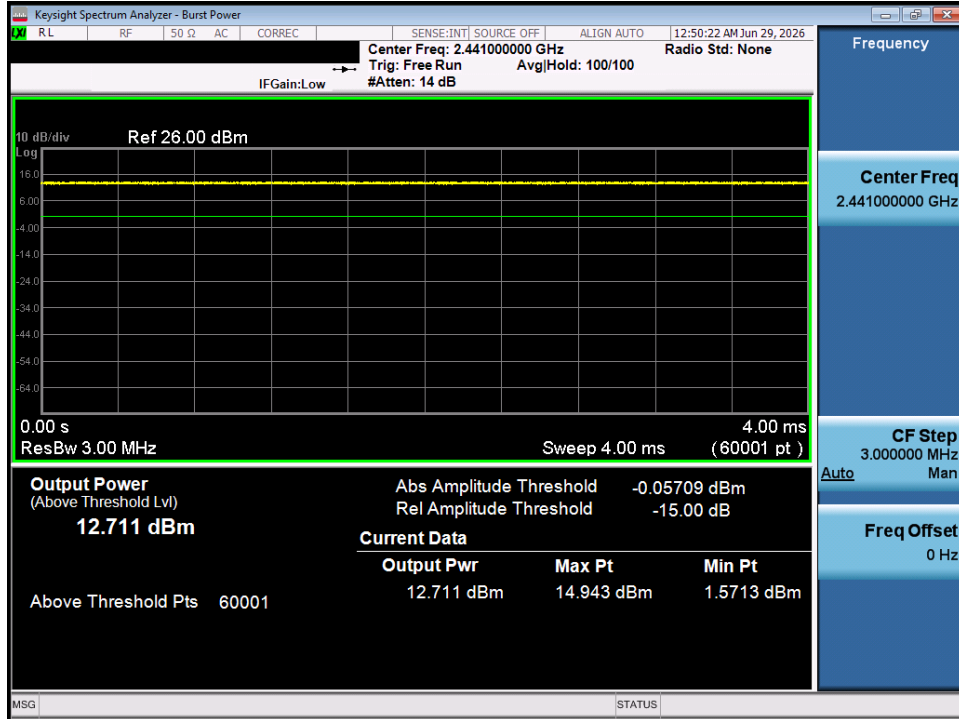


Plot 7-65. Average Conducted Power (1Mbps – Ch. 39) – MIMO CHAIN 1

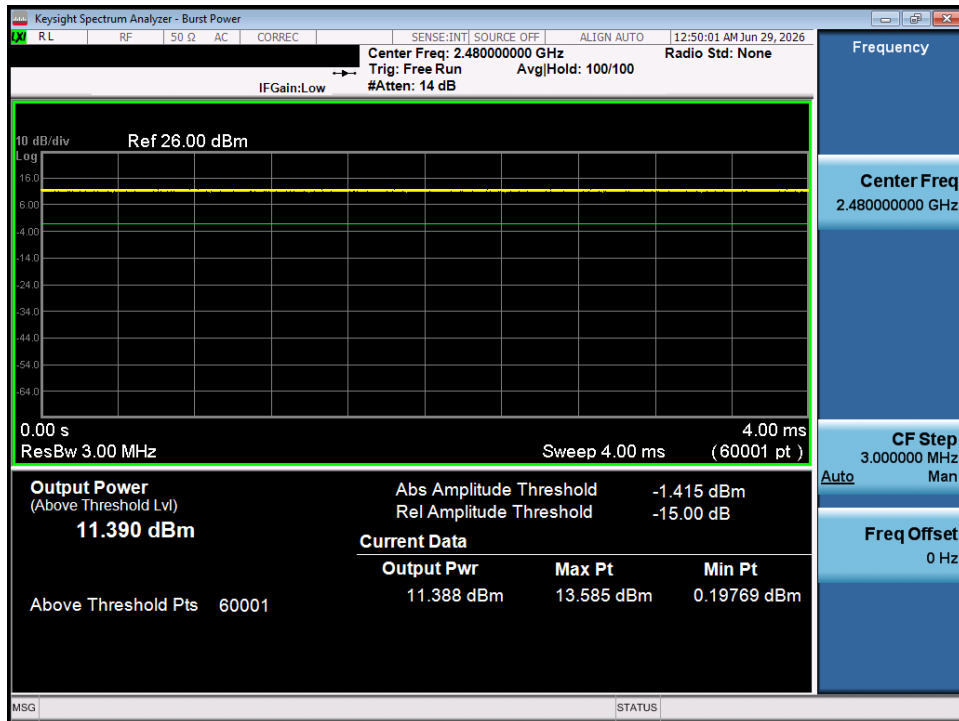
FCC ID: C3K00002101 IC: 3048A-00002101		Test Dates: 4/16/2026-6/25/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
Test Report S/N: 1M2604150032-07-R2.C3K		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 51 of 68



FCC ID: C3K00002101 IC: 3048A-00002101		Test Dates: 4/16/2026-6/25/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
Test Report S/N: 1M2604150032-07-R2.C3K		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 52 of 68

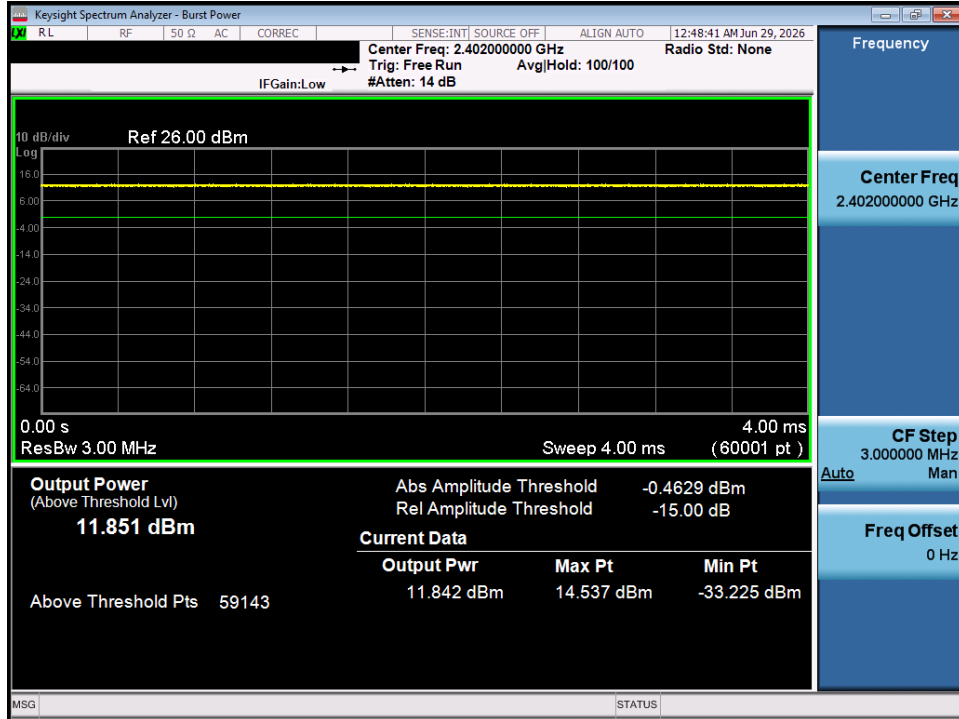


Plot 7-68. Average Conducted Power (2Mbps – Ch. 39) – MIMO CHAIN 1

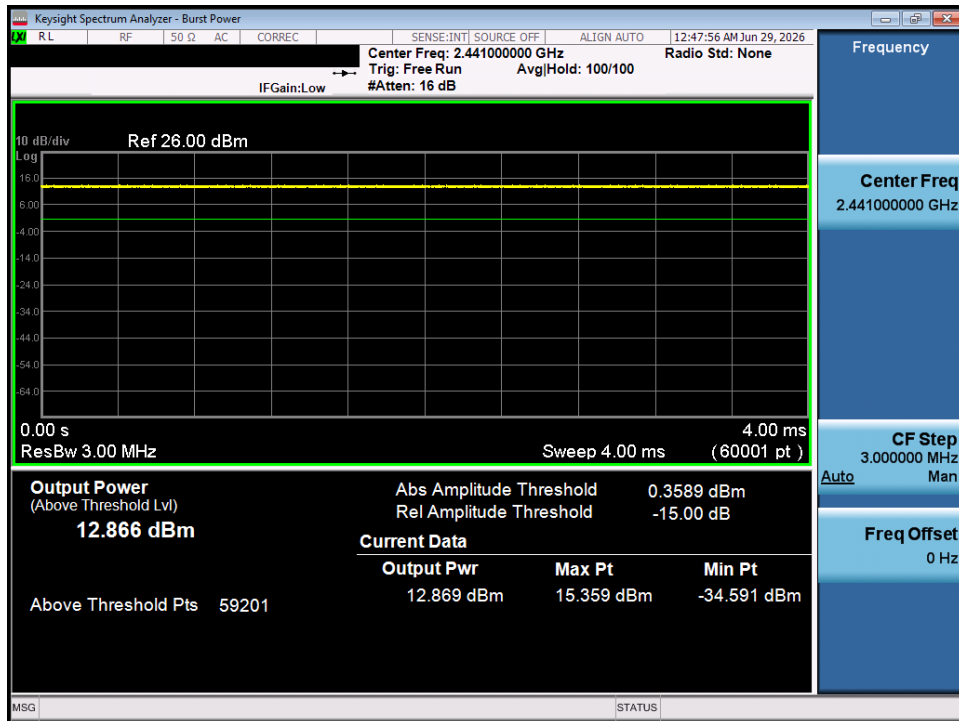


Plot 7-69. Average Conducted Power (2Mbps – Ch. 78) – MIMO CHAIN 1

FCC ID: C3K00002101 IC: 3048A-00002101		Test Dates: 4/16/2026-6/25/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
Test Report S/N: 1M2604150032-07-R2.C3K		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 53 of 68

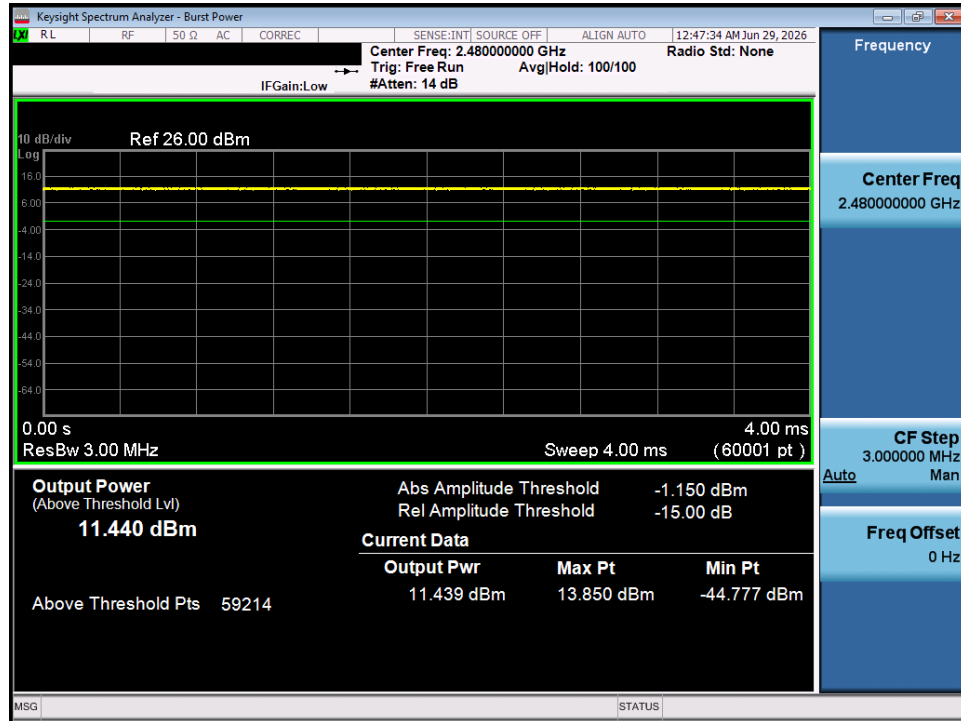


Plot 7-70. Average Conducted Power (3Mbps – Ch. 0) – MIMO CHAIN 1



Plot 7-71. Average Conducted Power (3Mbps – Ch. 39) – MIMO CHAIN 1

FCC ID: C3K00002101 IC: 3048A-00002101		Test Dates: 4/16/2026-6/25/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
Test Report S/N: 1M2604150032-07-R2.C3K		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 54 of 68



Plot 7-72. Average Conducted Power (3Mbps – Ch. 78) – MIMO CHAIN 1

FCC ID: C3K00002101 IC: 3048A-00002101		Test Dates: 4/16/2026-6/25/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
Test Report S/N: 1M2604150032-07-R2.C3K		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 55 of 68

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 2402MHz the average conducted output power was measured to be 13.08 dBm for Antenna 1 and 11.33 dBm for Antenna 2.

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

$$(14.97 \text{ dBm} + 15.00 \text{ dBm}) = (31.399 \text{ mW} + 31.631 \text{ mW}) = 63.030 \text{ mW} = 18.00 \text{ dBm}$$

Sample e.i.r.p Calculation:

At 2402MHz, the average MIMO conducted power was calculated to be 18.00 dBm with directional gain of 5.67 dBi.

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

$$18.00 \text{ dBm} + 5.67 \text{ dBi} = 23.67 \text{ dBm}$$

FCC ID: C3K00002101 IC: 3048A-00002101		Test Dates: 4/16/2026-6/25/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
Test Report S/N: 1M2604150032-07-R2.C3K		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 68

7.3 Radiated Spurious Emission Measurements

§15.205 §15.209 §15.247 (d); RSS-Gen [8.9]

Test Overview and Limit

All out of band radiated spurious emissions are measured with a spectrum analyzer connected to a receive antenna while the EUT is operating at maximum power and at the appropriate frequencies. Only the radiated emissions of the configuration that produced the worst-case emissions are reported in this section.

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR and Table 6 of RSS-Gen (8.10) must not exceed the limits shown below per Section 15.209 and RSS-Gen (8.9).

Frequency	Field Strength [μV/m]	Measured Distance [Meters]
0.009 – 0.490 MHz	2400/F (kHz)	300
0.490 – 1.705 MHz	24000/F (kHz)	30
1.705 – 30.00 MHz	30	30
30.00 – 88.00 MHz	100	3
88.00 – 216.0 MHz	150	3
216.0 – 960.0 MHz	200	3
Above 960.0 MHz	500	3

Table 7-5. Radiated Limits

Test Procedure Used

ANSI C63.10:2020 – Section 6.6.4.3

Test Settings

Quasi-Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 120kHz (for emissions from 30MHz – 1GHz)
3. Detector = quasi-peak
4. Sweep time = auto couple
5. Trace mode = max hold
6. Trace was allowed to stabilize

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Average Field Strength Measurements per Section 4.1.5.2.3 of ANSI C63.10:2020

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 1kHz $\geq 1/\tau$ Hz, where τ = pulse width in seconds
4. Averaging type was set to RMS to ensure that video filtering was applied in the power domain
5. Detector = peak
6. Sweep time = auto
7. Trace mode = max hold
8. Trace was allowed to stabilize

Peak Field Strength Measurements per Section 4.1.5.2.2 of ANSI C63.10:2020

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW is set depending on measurement frequency, as specified in Table 7-6 below
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

Frequency	RBW
9 – 150kHz	200 – 300Hz
0.15 – 30MHz	9 – 10kHz
30 – 1000MHz	100 – 120kHz
> 1000MHz	1MHz

Table 7-6. RBW as a Function of Frequency

Test Setup

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

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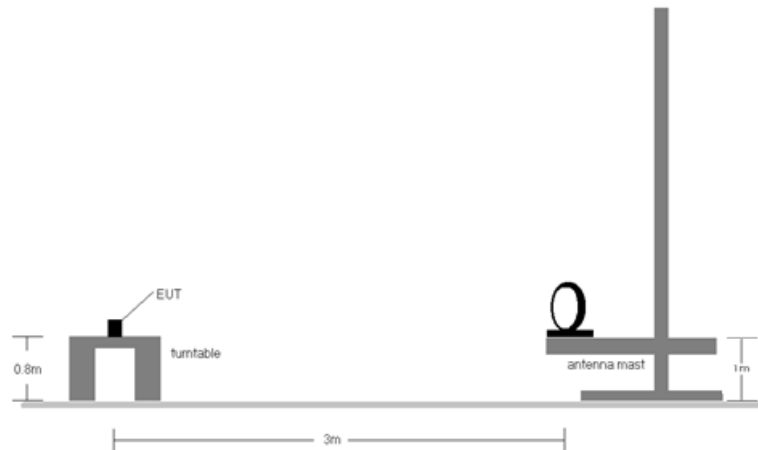


Figure 7-2. Radiated Test Setup < 30Mhz

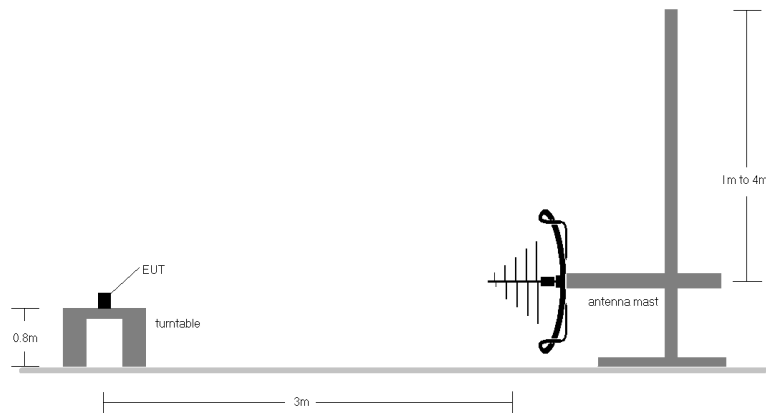


Figure 7-3. Radiated Test Setup < 1GHz

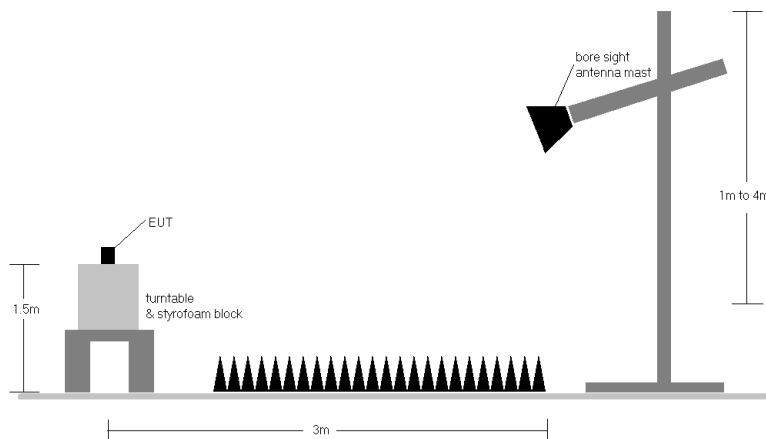


Figure 7-4. Radiated Test Setup >1GHz

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Test Notes

2. All emissions lying in restricted bands specified in §15.205 and Section 8.10 of RSS-Gen are below the limit shown in §15.209.
3. No significant radiated emissions were found in the 2310 - 2390MHz restricted band.
4. The antenna is manipulated through typical positions, polarity, and length during the tests. The EUT is manipulated through three orthogonal planes.
5. This unit was tested with its standard battery.
6. The spectrum is measured from 9kHz to the 10th harmonic and the worst-case emissions are reported.
7. The duty cycle correction factor was not applied to noise floor measurements.
8. The wide spectrum spurious emissions plots shown on the following pages are used only for the purpose of emission identification. Any emissions found to be within 20dB of the limit are fully investigated and the results are shown in this section.
9. The "-" shown in the following RSE tables is used to denote a noise floor measurement.
10. Restricted Band Edge testing was performed using a conducted setup per C63.10:2020 12.7.4.2. The spectra output by each antenna were summed per C63.10:2020 14.5.2.2. Correlated directional antenna gain was added to determine an EIRP level, which was then converted to field strength at 3m, per the below sample calculation.

Sample Calculation

- Field Strength Level $_{[dB\mu V/m]} = \text{Analyzer Level}_{[dBm]} + 107 + \text{AFCL}_{[dB/m]} + \text{Duty Cycle Correction}_{[dB]}$
- $\text{AFCL}_{[dB/m]} = \text{Antenna Factor}_{[dB/m]} + \text{Cable Loss}_{[dB]}$
- $\text{Margin}_{[dB]} = \text{Field Strength Level}_{[dB\mu V/m]} - \text{Limit}_{[dB\mu V/m]}$

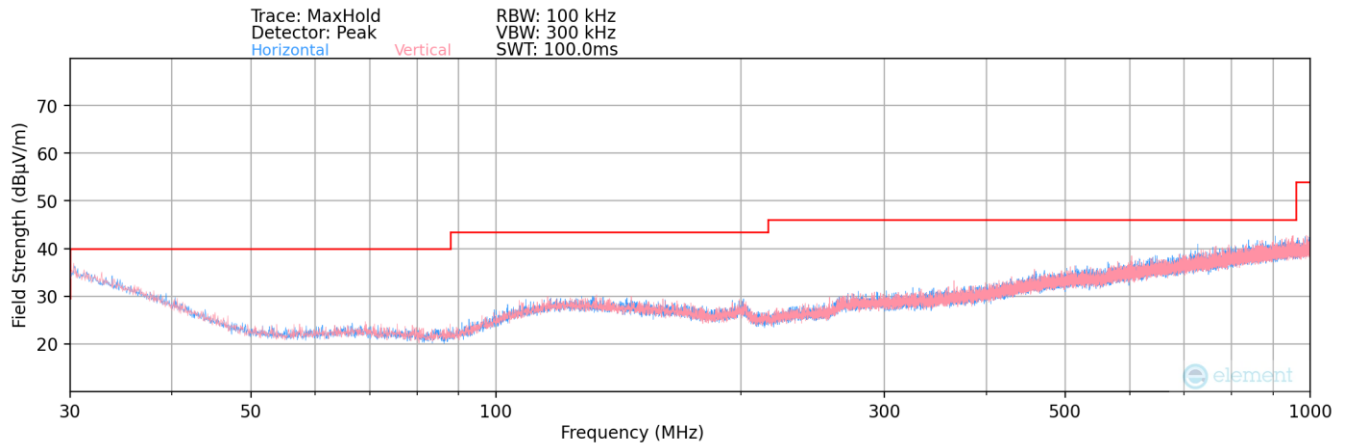
Duty Cycle Correction Factor Calculation

- Channel hop rate = 800 hops/second (AFH Mode)
- Adjusted channel hop rate for DH5 mode = 133.33 hops/second
- Time per channel hop = $1 / 133.33 \text{ hops/second} = 7.50 \text{ ms}$
- Time to cycle through all channels = $7.50 \times 20 \text{ channels} = 150 \text{ ms}$
- Number of times transmitter hits on one channel = $100 \text{ ms} / 150 \text{ ms} = 1 \text{ time(s)}$
- Worst case dwell time = 7.5 ms
- Duty cycle correction factor = $20\log_{10}(7.5\text{ms}/100\text{ms}) = -22.5 \text{ dB}$

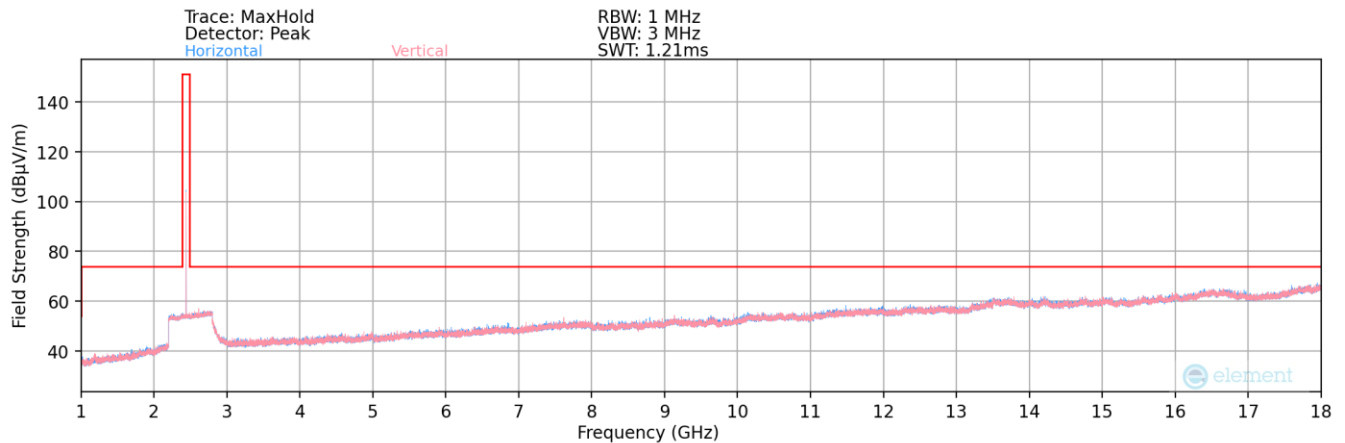
FCC ID: C3K00002101 IC: 3048A-00002101		Test Dates: 4/16/2026-6/25/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
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Radiated Spurious Emission Measurements

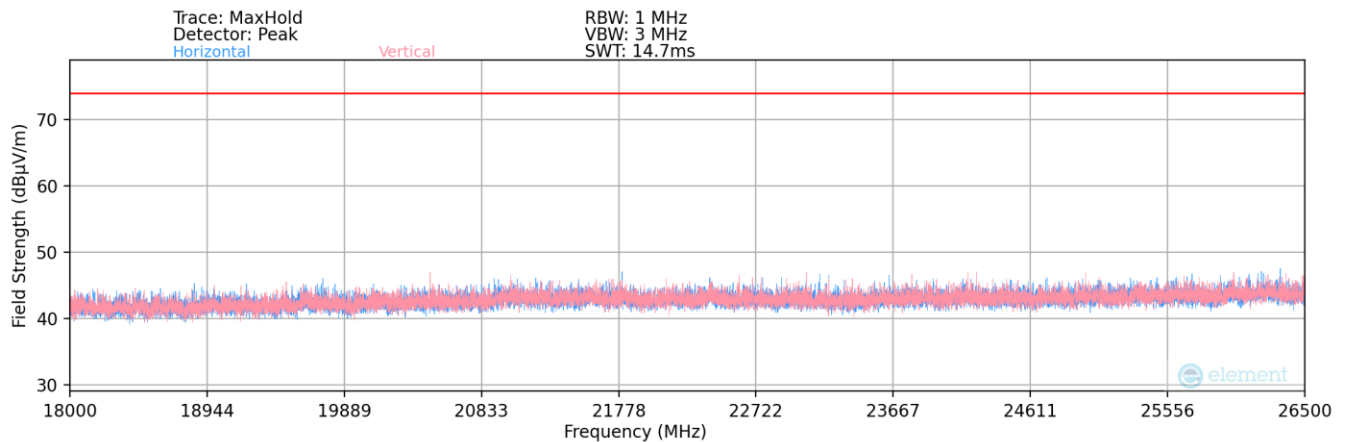
§15.205 §15.209 §15.247 (d); RSS-Gen [8.9]



Plot 7-73. Radiated Spurious Plot below 1GHz



Plot 7-74. Radiated Spurious Plot above 1GHz



Plot 7-75. Radiated Spurious Plot above 18GHz

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Radiated Spurious Emission Measurements

Worst Case Mode:	Bluetooth
Worst Case Data Rate:	1 Mbps
Measurement Distance:	3 Meters
Operating Frequency:	2441MHz
Channel:	39

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4882.00	Avg	V	-	-	-80.69	9.65	35.96	53.98	-18.02
4882.00	Peak	V	-	-	-69.59	9.65	47.06	73.98	-26.92
7323.00	Avg	V	-	-	-81.84	15.24	40.40	53.98	-13.58
7323.00	Peak	V	-	-	-70.89	15.24	51.35	73.98	-22.63
12205.00	Avg	V	-	-	-83.65	22.61	45.96	53.98	-8.02
12205.00	Peak	V	-	-	-72.56	22.61	57.05	73.98	-16.93

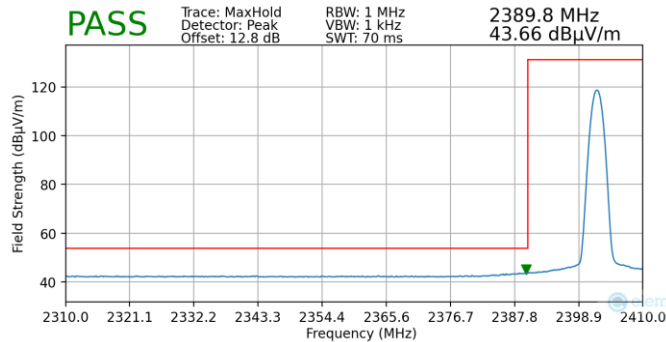
Table 7-7. Radiated Measurements

FCC ID: C3K00002101 IC: 3048A-00002101		Test Dates: 4/16/2026-6/25/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
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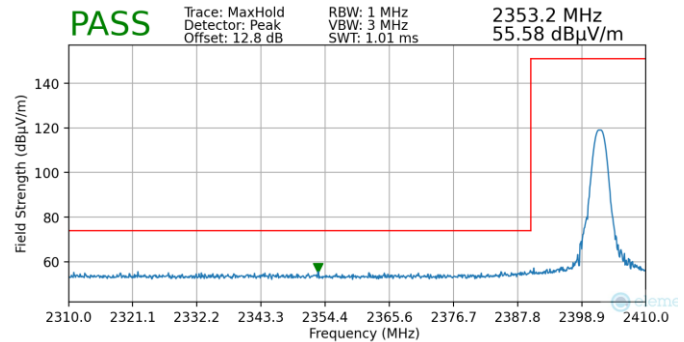
Radiated Restricted Band Edge Measurements – Chain 0

§15.205 §15.209 §15.247 (d); RSS-Gen [8.9]

Worst Case Mode:	Bluetooth
Worst Case Data Rate:	1 Mbps
Measurement Distance:	3 Meters
Operating Frequency:	2402MHz
Channel:	0

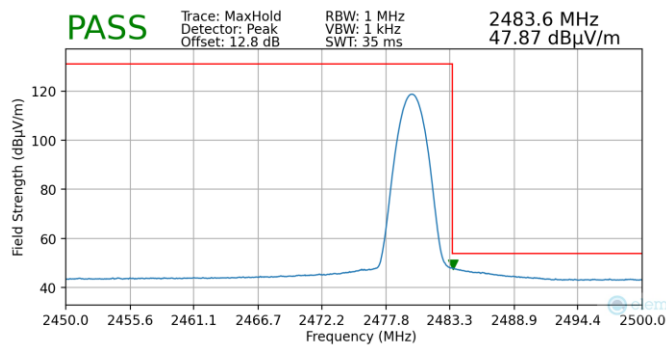


Plot 7-76. Radiated Restricted Lower Band Edge Measurement (Average)

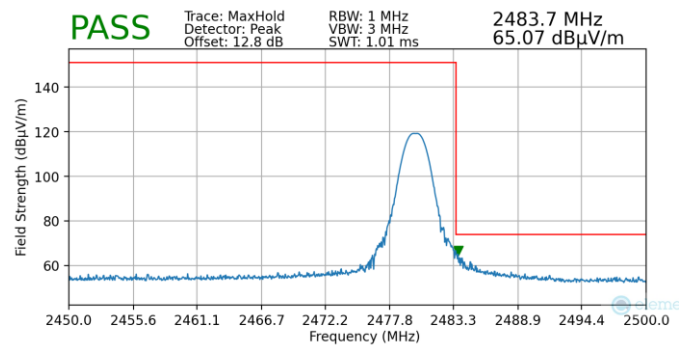


Plot 7-77. Radiated Restricted Lower Band Edge Measurement (Peak)

Worst Case Mode:	Bluetooth
Worst Case Data Rate:	1 Mbps
Measurement Distance:	3 Meters
Operating Frequency:	2480MHz
Channel:	78



Plot 7-78. Radiated Restricted Upper Band Edge Measurement (Average)



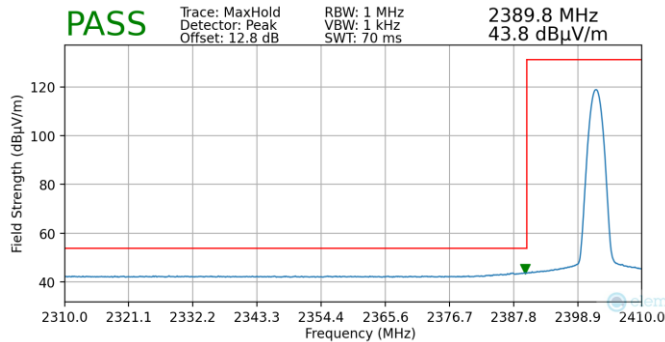
Plot 7-79. Radiated Restricted Upper Band Edge Measurement (Peak)

FCC ID: C3K00002101 IC: 3048A-00002101		Test Dates: 4/16/2026-6/25/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
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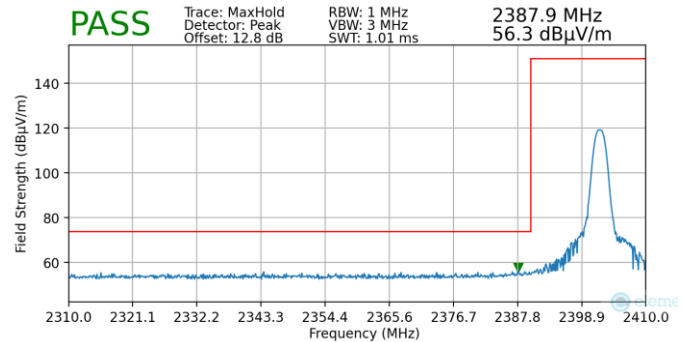
Radiated Restricted Band Edge Measurements – Chain 1

§15.205 §15.209 §15.247 (d); RSS-Gen [8.9]

Worst Case Mode:	Bluetooth
Worst Case Data Rate:	1 Mbps
Measurement Distance:	3 Meters
Operating Frequency:	2402MHz
Channel:	0

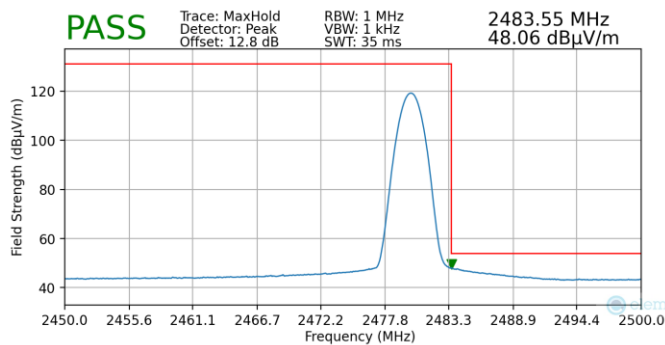


Plot 7-80. Radiated Restricted Lower Band Edge Measurement (Average)

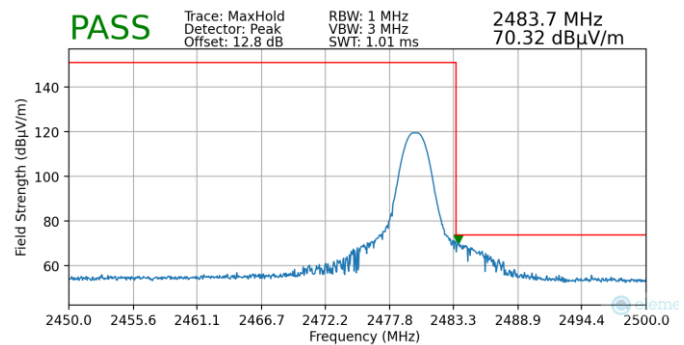


Plot 7-81. Radiated Restricted Lower Band Edge Measurement (Peak)

Worst Case Mode:	Bluetooth
Worst Case Data Rate:	1 Mbps
Measurement Distance:	3 Meters
Operating Frequency:	2480MHz
Channel:	78



Plot 7-82. Radiated Restricted Upper Band Edge Measurement (Average)



Plot 7-83. Radiated Restricted Upper Band Edge Measurement (Peak)

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7.4 Line Conducted Measurement Data

§15.207; RSS-Gen [8.8]

Test Overview and Limit

All AC line conducted spurious emissions are measured with a receiver connected to a grounded LISN while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates and modes were investigated for conducted spurious emissions. Only the conducted emissions of the configuration that produced the worst case emissions are reported in this section.

All conducted emissions must not exceed the limits shown in the table below per Section 15.207 and RSS-Gen (8.8).

Frequency of emission (MHz)	Conducted Limit (dBμV)	
	Quasi-peak	Average
0.15 – 0.5	66 to 56*	56 to 46*
0.5 – 5	56	46
5 – 30	60	50

Table 7-8. Conducted Limits

*Decreases with the logarithm of the frequency.

Test Procedures Used

ANSI C63.10:2020, Section 6.2

Test Settings

Quasi-Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the spurious emission of interest
2. RBW = 9kHz (for emissions from 150kHz – 30MHz)
3. Detector = quasi-peak
4. Sweep time = auto couple
5. Trace mode = max hold
6. Trace was allowed to stabilize

Average Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the spurious emission of interest
2. RBW = 9kHz (for emissions from 150kHz – 30MHz)
3. Detector = RMS
4. Sweep time = auto couple
5. Trace mode = max hold
6. Trace was allowed to stabilize

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Test Setup

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

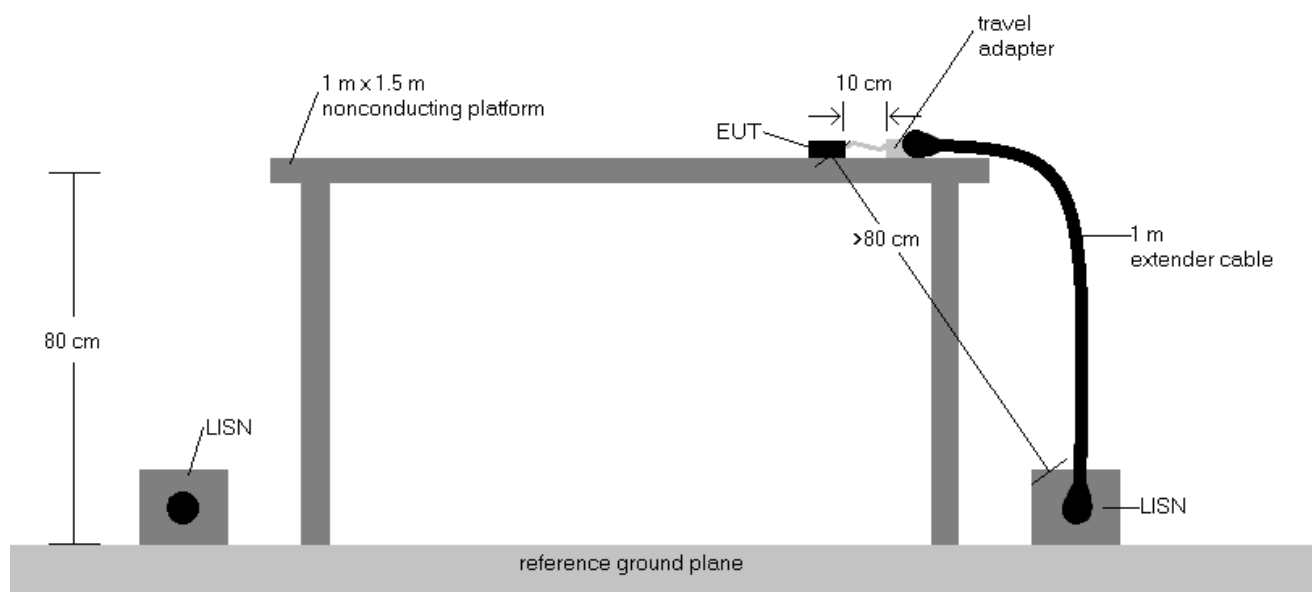
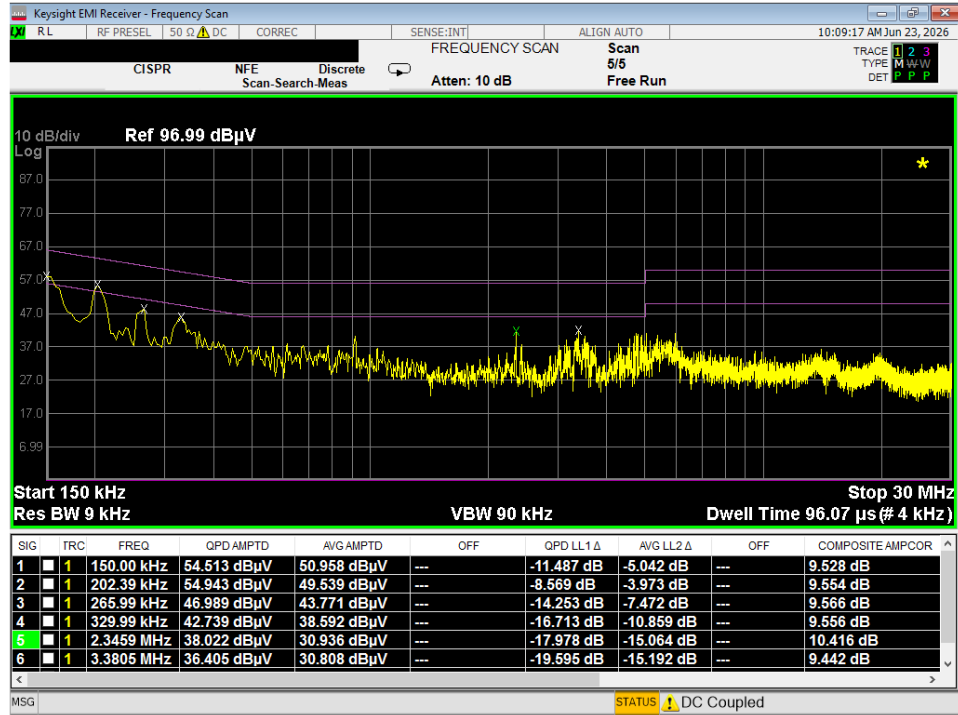


Figure 7-5. Test Instrument & Measurement Setup

Test Notes

1. All modes of operation were investigated, and the worst-case emissions are reported using mid channel. The emissions found were not affected by the choice of channel used during testing.
2. The limit for an intentional radiator from 150kHz to 30MHz are specified in 15.207 and RSS-Gen (8.8).
3. $\text{Corr. (dB)} = \text{Cable loss (dB)} + \text{LISN insertion factor (dB)}$
4. $\text{QP/AV Level (dB}\mu\text{V)} = \text{QP/AV Analyzer/Receiver Level (dB}\mu\text{V)} + \text{Corr. (dB)}$
5. $\text{Margin (dB)} = \text{QP/AV Limit (dB}\mu\text{V)} - \text{QP/AV Level (dB}\mu\text{V)}$
6. Traces shown in plot are made using a peak detector.
7. Deviations to the Specifications: None.

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Plot 7-84. Line-Conducted Test Plot (L1)

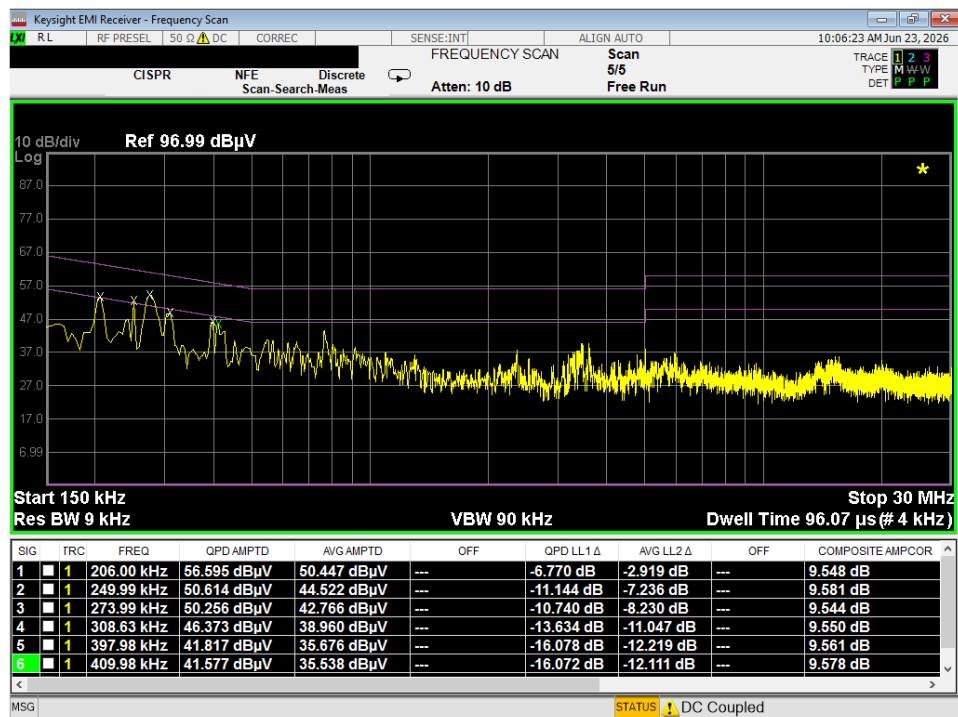


Table 7-9. Line-Conducted Test Data (N)

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8.0 CONCLUSION

The data collected relate only the item(s) tested and show that the **Microsoft Corporation Limited Module FCC ID: C3K00002101** and **IC: 3048A-00002101** integrated into the **host portable computing device (Model: 2145)** is in compliance the relevant FCC rules and ISED rules for module integration into a host product.

- END OF TEST REPORT -

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