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MEASUREMENT REPORT

FCC Part 15.247 / ISED RSS-247 Bluetooth (Low Energy)

Applicant Name:

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

Date of Testing:

4/15/2026 – 7/9/2026

Test Report Issue Date:

7/10/2026

Test Site/Location:

Element lab., Columbia, MD, USA

Test Report Serial No.:

1M2603250028-08.C3K-R2

FCC ID:

C3K00002101

IC ID:

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:

2150

HVIN:

HWB-Q94

EUT Type:

Limited Modular Approval – Host Integration

Frequency Range:

2402 – 2480MHz

ISED Specification:

RSS-247 Issue 4

FCC Classification:

Digital Transmission System20 (DTS)

FCC Rule Part(s):

Part 15 Subpart C (15.247)

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 and KDB 558074 D01 v05r02. Test results reported herein relate only to the item(s) tested.

This revised Test Report (S/N: 1M2603250028-08.C3K-R2) supersedes and replaces the previously issued test report (S/N: 1M2603250028-08.C3K-R1) 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 ID: 3048A-00002101	MEASUREMENT REPORT (Class II Permissive Change)	Test Dates: 4/15/2026 – 7/9/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
Test Report S/N: 1M2603250028-08.C3K-R2		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 33

TEST REPORT REVISION HISTORY

Rev. No.	Description	Issue Date	Revised By
-	Initial Release	7/7/2026	WKR0000005874
1	Addressed comments from TCB reviewer	7/9/2026	WKR0000005874
2	Addressed comments from TCB reviewer	7/10/2026	WKR0000005826

FCC ID: C3K00002101 IC ID: 3048A-00002101	MEASUREMENT REPORT (Class II Permissive Change)	Test Dates: 4/15/2026 – 7/9/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
Test Report S/N: 1M2603250028-08.C3K-R2	 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 2 of 33

TABLE OF CONTENTS

1.0	INTRODUCTION	4
1.1	Scope	4
1.2	Element Test Location	4
1.3	Test Facility / Accreditations	4
2.0	PRODUCT INFORMATION	5
2.1	Equipment Description	5
2.2	Device Capabilities	5
2.3	Antenna Description	6
2.4	Test Configuration	6
2.5	Software and Firmware	6
2.6	EMI Suppression Device(s)/Modifications	6
3.0	DESCRIPTION OF TESTS	7
3.1	Evaluation Procedure	7
3.2	AC Line Conducted Emissions	7
3.3	Radiated Emissions	8
3.4	Environmental Conditions	8
4.0	ANTENNA REQUIREMENTS	9
5.0	MEASUREMENT UNCERTAINTY	10
6.0	TEST EQUIPMENT CALIBRATION DATA	11
7.0	TEST RESULTS	13
7.1	Summary	13
7.2	Output Power Measurement – Bluetooth (LE)	14
7.3	Radiated Spurious Emission Measurements	25
7.4	Radiated Restricted Band Edge Measurements	29
7.5	Line-Conducted Test Data	30
8.0	CONCLUSION	33

FCC ID: C3K00002101 IC ID: 3048A-00002101	MEASUREMENT REPORT (Class II Permissive Change)	Test Dates: 4/15/2026 – 7/9/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
Test Report S/N: 1M2603250028-08.C3K-R2	 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 3 of 33

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

These measurement tests were conducted at the Element laboratory located at 7185 Oakland Mills Road, Columbia, MD 21046. The measurement facility is compliant with the test site requirements specified in ANSI C63.4-2014.

1.3 Test Facility / Accreditations

Measurements were performed at Element lab located in Columbia, MD 21046, U.S.A.

- Element Washington DC LLC is an ISO 17025-2017 accredited test facility under the American Association for Laboratory Accreditation (A2LA) with Certificate number 2041.01 for Specific Absorption Rate (SAR), Hearing Aid Compatibility (HAC) testing, where applicable, and Electromagnetic Compatibility (EMC) testing for FCC and Innovation, Science, and Economic Development Canada rules.
- Element Washington DC LLC TCB is a Telecommunication Certification Body (TCB) accredited to ISO/IEC 17065-2012 by A2LA (Certificate number 2041.03) in all scopes of FCC Rules and ISED Standards (RSS).
- Element Washington DC LLC facility is a registered (2451B) test laboratory with the site description on file with ISED.
- Element Washington DC LLC is a Recognized U.S. Certification Assessment Body (CAB # US0110) for ISED Canada as designated by NIST under U.S. and Canada Mutual Recognition Agreements (MRAs).

FCC ID: C3K00002101 IC ID: 3048A-00002101	MEASUREMENT REPORT (Class II Permissive Change)	Test Dates: 4/15/2026 – 7/9/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
Test Report S/N: 1M2603250028-08.C3K-R2	 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 33

2.0 PRODUCT INFORMATION

2.1 Equipment Description

The Equipment Under Test (EUT) is the **Microsoft Portable Computing Device containing module FCC ID: C3K00002101**. The data found in this test report was taken with the EUT operating in Bluetooth low energy mode. While in low energy mode, the Bluetooth transmitter hops pseudo-randomly between 40 channels, three of which are “advertising channels”. When the transmitter is hopping only between the three advertising channels, the EUT does not fall under the category of a “hopper” as defined in 15.247(a)(iii) which states that a “frequency hopping systems in the 2400–2483.5 MHz band shall use at least 15 channels.” As operation on only the advertising channels does not qualify the EUT as a hopper, the EUT is certified as a DTS device in this mode. The data found in this report is representative of the device when it transmits on its advertising channels. Typical Bluetooth operation is covered under the DSS report found with this application.

The equipment under test (EUT) is a portable computing device, Model: 2150, which integrates two previously certified modules. The first module is a WLAN/Bluetooth module authorized under FCC ID: C3K00002101, and the second is a cellular module authorized under FCC ID: C3K2114. No hardware or software modifications have been made to either module as part of this host integration. The evaluation in this report demonstrates compliance of the host device with the applicable FCC rules considering the co-location and simultaneous transmission of the integrated modules. Colocation data is contained in the C2PC evaluation for the cellular module (FCC ID: C3K2114) integrated into the Model 2150 Host. Reference report “C3K2114 Part 22_24_27_90 Test Report” serial number 1M2603250028-05.C3K.

Test Device Serial No.: 0F3K4CP24453Q6, 0F3K4CT24453Q6, 0F3K4CW24453Q6, 0F3K4CK24453Q6

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 GHz), Multi-band LTE, Multi-Band NR (FR1)

Ch.	Frequency (MHz)
0	2402
:	:
19	2440
:	:
39	2480

Table 2-1. Frequency / Channel Operations

FCC ID: C3K00002101 IC ID: 3048A-00002101	MEASUREMENT REPORT (Class II Permissive Change)	Test Dates: 4/15/2026 – 7/9/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
Test Report S/N: 1M2603250028-08.C3K-R2		This report is Blockchain Verified. To verify the report authenticity, please visit HTTPS://WWW.BLOCKCHAIN-VERIFIED.COM or by clicking on the Blockchain logo.		

2.3 Antenna Description

Following antenna was used for the testing.

Frequency [GHz]	ANT1 Peak Gain [dBi]	ANT2 Peak Gain [dBi]	Measured Directional Gain [dBi]
2.4	0.67	0.25	2.93

Table 2-2. Antenna Peak Gain

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.

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 and KDB 558074 D01 v05r02. ANSI C63.10:2020 was used to reference the appropriate EUT setup for radiated spurious emissions testing and AC line conducted testing. See Sections 3.2 for AC line conducted emissions test setups, 3.3 for radiated emissions test setups.

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

The Duty Cycle for all modes was at 100%

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

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

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

2.5 Software and Firmware

The test was conducted with software/firmware version 2026.509.11908993 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: C3K00002101 IC ID: 3048A-00002101	MEASUREMENT REPORT (Class II Permissive Change)	Test Dates: 4/15/2026 – 7/9/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
Test Report S/N: 1M2603250028-08.C3K-R2	 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 33

3.0 DESCRIPTION OF TESTS

3.1 Evaluation Procedure

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

Deviation from measurement procedure.....None

3.2 AC Line Conducted Emissions

The line-conducted facility is located inside a 10'x16'x9' shielded enclosure. The shielded enclosure is manufactured by ETS Lindgren RF Enclosures. The line-conducted facility is located inside a 7m x 3.66m x 2.7m shielded enclosure. The shielded enclosure is manufactured by AP Americas. The shielding effectiveness of the shielded room is in accordance with MIL-Std-285 or NSA 65-5. A 1m x 1.5m wooden table 80cm high is placed 40cm away from the vertical wall and 80cm away from the sidewall of the shielded room. Two 10kHz-30MHz, 50Ω/50μH Line-Impedance Stabilization Networks (LISNs) are bonded to the shielded room floor. Power to the LISNs is filtered by external high-current high-insertion loss power line filters. The external power line filter is an ETS Lindgren Model LPRX-4X30 (100dB Attenuation, 14kHz-18GHz) and the two EMI/RFI filters are ETS Lindgren Model LRW-2030-S1 (100dB Minimum Insertion Loss, 14kHz – 10GHz). These filters attenuate ambient signal noise from entering the measurement lines. These filters are also bonded to the shielded enclosure.

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

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

Line conducted emissions test results are shown in Section 7.4. The EMI Receiver mode of the Agilent MXE was used to perform AC line conducted emissions testing.

FCC ID: C3K00002101 IC ID: 3048A-00002101	MEASUREMENT REPORT (Class II Permissive Change)	Test Dates: 4/15/2026 – 7/9/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
Test Report S/N: 1M2603250028-08.C3K-R2	 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 33

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: C3K00002101 IC ID: 3048A-00002101	MEASUREMENT REPORT (Class II Permissive Change)	Test Dates: 4/15/2026 – 7/9/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
Test Report S/N: 1M2603250028-08.C3K-R2	 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 33

4.0 ANTENNA REQUIREMENTS

Excerpt from §15.203 of the FCC Rules/Regulations:

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

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

Conclusion:

The EUT complies with the requirement of §15.203.

FCC ID: C3K00002101 IC ID: 3048A-00002101	MEASUREMENT REPORT (Class II Permissive Change)	Test Dates: 4/15/2026 – 7/9/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
Test Report S/N: 1M2603250028-08.C3K-R2				Page 9 of 33

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

FCC ID: C3K00002101 IC ID: 3048A-00002101	MEASUREMENT REPORT (Class II Permissive Change)	Test Dates: 4/15/2026 – 7/9/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
Test Report S/N: 1M2603250028-08.C3K-R2	 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 33

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
-	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
Anritsu	MA24408A	POWER SENSOR	1/27/2026	Annual	1/27/2027	11676
Anritsu	MA24408A	POWER SENSOR	1/27/2026	Annual	1/27/2027	12798
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
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

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

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

Component	Serial Number
Pasternak Cable RG214/U	111815
Sucoflex Cable 106A	246420-001
Rohde & Schwarz SF Unit	102134

Table 6-3. 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 6-4. ETS-002 EMC Cable and Switch System Components

FCC ID: C3K00002101 IC ID: 3048A-00002101	MEASUREMENT REPORT (Class II Permissive Change)	Test Dates: 4/15/2026 – 7/9/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
Test Report S/N: 1M2603250028-08.C3K-R2		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 33

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

Table 6-5. WL25-1 Conducted Cable Set Components

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

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

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.

FCC ID: C3K00002101 IC ID: 3048A-00002101	MEASUREMENT REPORT (Class II Permissive Change)	Test Dates: 4/15/2026 – 7/9/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
Test Report S/N: 1M2603250028-08.C3K-R2	 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 12 of 33

7.0 TEST RESULTS

7.1 Summary

Company Name: Microsoft Corporation
 FCC ID: C3K00002101
 IC ID: 3048A-00002101
 FCC Classification: Digital Transmission System (DTS)
 Number of Channels: 40

FCC Part Section(s)	RSS Section(s)	Test Description	Test Limit	Test Condition	Test Result	Reference
15.247(b)(3)	RSS-247 [6.3.1]	Transmitter Output Power	< 1 Watt	CONDUCTED	PASS	Sections 7.2
15.205 15.209	RSS-Gen [8.9]	General Field Strength Limits (Restricted Bands and Radiated Emission Limits)	Emissions in restricted bands must meet the radiated limits detailed in 15.209 (RSS-Gen [8.9])	RADIATED	PASS	Sections 7.3, 7.4
15.207	RSS-Gen [8.8]	AC Conducted Emissions 150kHz – 30MHz	< FCC 15.207 limits (RSS-Gen[8.8])	LINE CONDUCTED	PASS	Section 7.5

Table 7-1. Summary of Test Results

Notes:

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

FCC ID: C3K00002101 IC ID: 3048A-00002101	MEASUREMENT REPORT (Class II Permissive Change)	Test Dates: 4/15/2026 – 7/9/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
Test Report S/N: 1M2603250028-08.C3K-R2	 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 33

7.2 Output Power Measurement – Bluetooth (LE)

§15.247(b.3); RSS-247 [5.4(4)]

Test Overview and Limits

The transmitter antenna terminal of the EUT is connected to the input of a spectrum analyzer. Measurements are made while the EUT is operating at maximum power and at the appropriate frequencies.

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

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

Only mid channel power plots are included as representative plots.

FCC ID: C3K00002101 IC ID: 3048A-00002101	MEASUREMENT REPORT (Class II Permissive Change)	Test Dates: 4/15/2026 – 7/9/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
Test Report S/N: 1M2603250028-08.C3K-R2	 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 33

Frequency [MHz]	Data Rate [Mbps]	Channel No.	Bluetooth Mode	Peak Conducted Power		Ant. Gain [dBi]	EIRP [dBm]	Limit [dBm]	Margin [dB]
				[dBm]	[mW]				
2402	125 kbps	37	LE	13.68	23.356	0.67	14.35	36.02	-21.67
2440	125 kbps	17	LE	14.42	27.689	0.67	15.09	36.02	-20.93
2480	125 kbps	39	LE	13.83	24.132	0.67	14.50	36.02	-21.52
2402	500 kbps	37	LE	14.10	25.698	0.67	14.77	36.02	-21.25
2440	500 kbps	17	LE	14.50	28.158	0.67	15.17	36.02	-20.85
2480	500 kbps	39	LE	13.68	23.356	0.67	14.35	36.02	-21.67
2402	1 Mbps	37	LE	18.44	69.807	0.67	19.11	36.02	-16.91
2440	1 Mbps	17	LE	19.20	83.138	0.67	19.87	36.02	-16.15
2480	1 Mbps	39	LE	18.28	67.360	0.67	18.95	36.02	-17.07
2404	2 Mbps	0	LE	18.53	71.203	0.67	19.20	36.02	-16.83
2440	2 Mbps	17	LE	18.89	77.482	0.67	19.56	36.02	-16.46
2478	2 Mbps	36	LE	18.42	69.518	0.67	19.09	36.02	-16.93

Table 7-2. Conducted Output Power Measurements (Bluetooth (LE)) – SISO Ant0

FCC ID: C3K00002101 IC ID: 3048A-00002101	MEASUREMENT REPORT (Class II Permissive Change)	Test Dates: 4/15/2026 – 7/9/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
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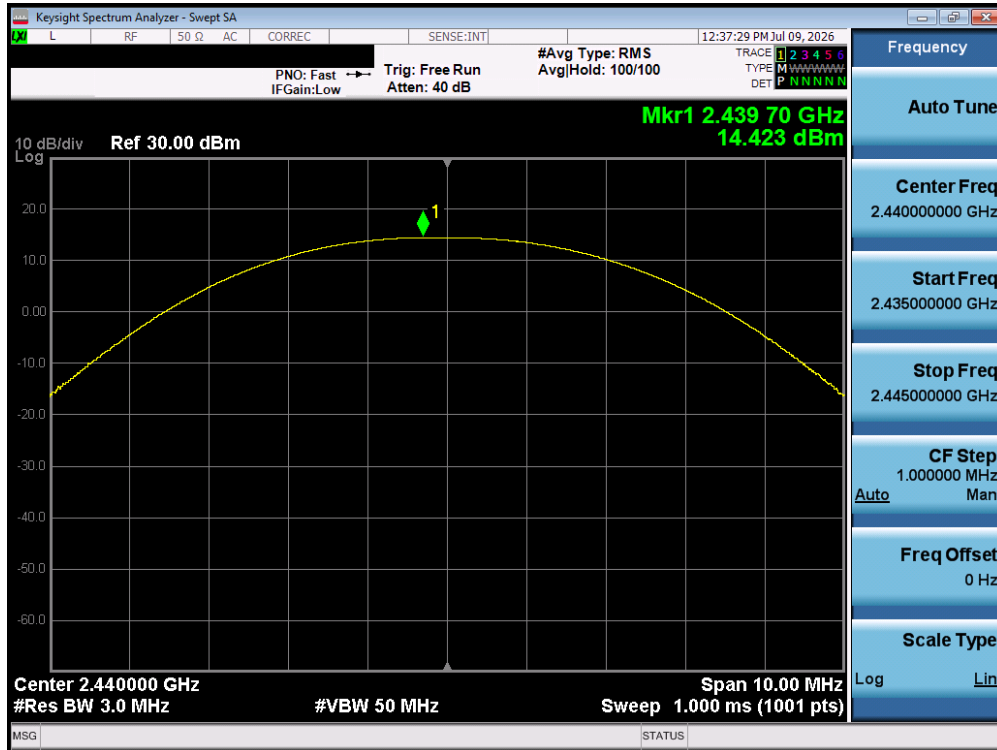
Frequency [MHz]	Data Rate [Mbps]	Channel No.	Bluetooth Mode	Peak Conducted Power		Ant. Gain [dBi]	EIRP [dBm]	Limit [dBm]	Margin [dB]
				[dBm]	[mW]				
2402	125 kbps	37	LE	13.82	24.105	0.25	14.07	36.02	-21.95
2440	125 kbps	17	LE	14.20	26.327	0.25	14.45	36.02	-21.57
2480	125 kbps	39	LE	13.98	25.003	0.25	14.23	36.02	-21.79
2402	500 kbps	37	LE	13.80	23.983	0.25	14.05	36.02	-21.97
2440	500 kbps	17	LE	14.50	28.158	0.25	14.75	36.02	-21.27
2480	500 kbps	39	LE	13.66	23.249	0.25	13.91	36.02	-22.11
2402	1 Mbps	37	LE	18.13	65.028	0.25	18.38	36.02	-17.64
2440	1 Mbps	17	LE	19.04	80.094	0.25	19.29	36.02	-16.73
2480	1 Mbps	39	LE	18.56	71.846	0.25	18.81	36.02	-17.21
2404	2 Mbps	0	LE	18.27	67.097	0.25	18.52	36.02	-17.50
2440	2 Mbps	17	LE	18.90	77.571	0.25	19.15	36.02	-16.87
2478	2 Mbps	36	LE	18.67	73.553	0.25	18.92	36.02	-17.10

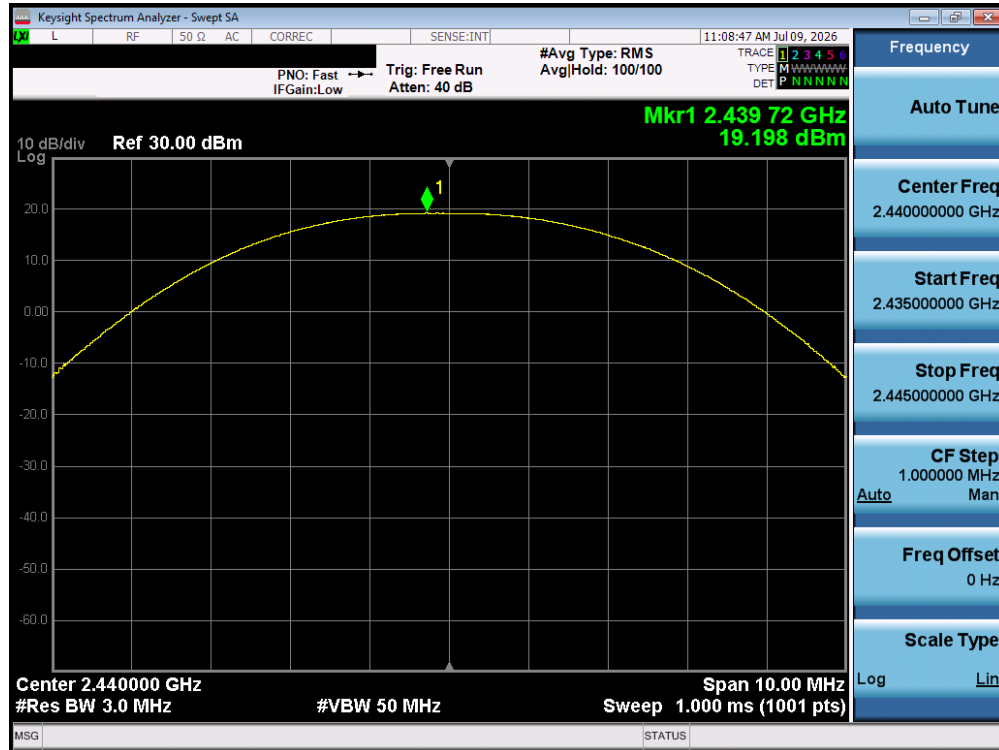
Table 7-3. Conducted Output Power Measurements (Bluetooth (LE)) – SISO Ant1

Frequency [MHz]	Data Rate [Mbps]	Channel No.	Bluetooth Mode	Peak Conducted Power - ANT1		Peak Conducted Power - ANT2		Peak Conducted Power - DUAL		Ant. Gain [dBi]	EIRP [dBm]	Limit [dBm]	Margin [dB]
				[dBm]	[mW]	[dBm]	[mW]	[dBm]	[mW]				
2402	125 kbps	37	LE	5.82	3.817	6.29	4.255	9.07	8.072	2.93	12.00	36.02	-24.02
2440	125 kbps	17	LE	6.23	4.194	6.87	4.858	9.57	9.052	2.93	12.50	36.02	-23.52
2480	125 kbps	39	LE	6.14	4.111	6.27	4.232	9.21	8.343	2.93	12.14	36.02	-23.88
2402	500 kbps	37	LE	6.10	4.074	6.24	4.206	9.18	8.280	2.93	12.11	36.02	-23.91
2440	500 kbps	17	LE	6.76	4.737	6.58	4.553	9.68	9.290	2.93	12.61	36.02	-23.41
2480	500 kbps	39	LE	5.54	3.582	6.03	4.009	8.80	7.590	2.93	11.73	36.02	-24.29
2402	1 Mbps	37	LE	10.69	11.722	11.00	12.578	13.86	24.300	2.93	16.79	36.02	-19.23
2440	1 Mbps	17	LE	11.53	14.223	11.49	14.093	14.52	28.316	2.93	17.45	36.02	-18.57
2480	1 Mbps	39	LE	10.86	12.187	11.43	13.903	14.16	26.090	2.93	17.09	36.02	-18.93
2404	2 Mbps	0	LE	10.66	11.644	11.00	12.601	13.85	24.245	2.93	16.78	36.02	-19.24
2440	2 Mbps	17	LE	11.57	14.358	11.95	15.657	14.77	30.015	2.93	17.70	36.02	-18.32
2478	2 Mbps	36	LE	10.86	12.184	11.29	13.468	14.09	25.652	2.93	17.02	36.02	-19.00

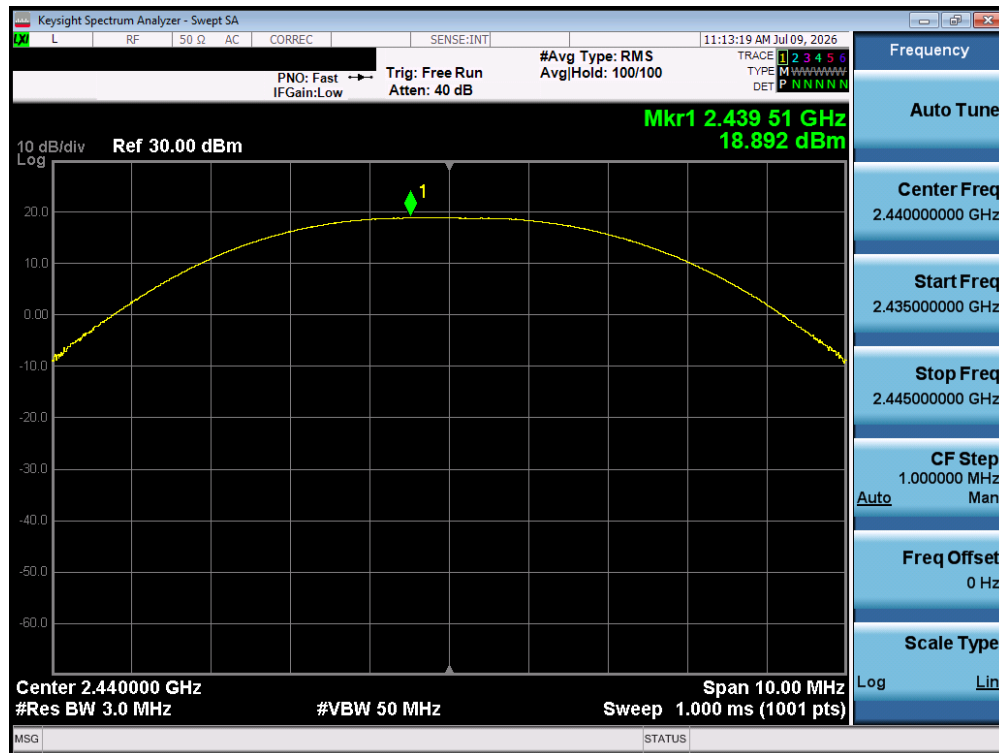
Table 7-4. Conducted Output Power Measurements (Bluetooth (LE)) – MIMO

FCC ID: C3K00002101 IC ID: 3048A-00002101	MEASUREMENT REPORT (Class II Permissive Change)	Test Dates: 4/15/2026 – 7/9/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
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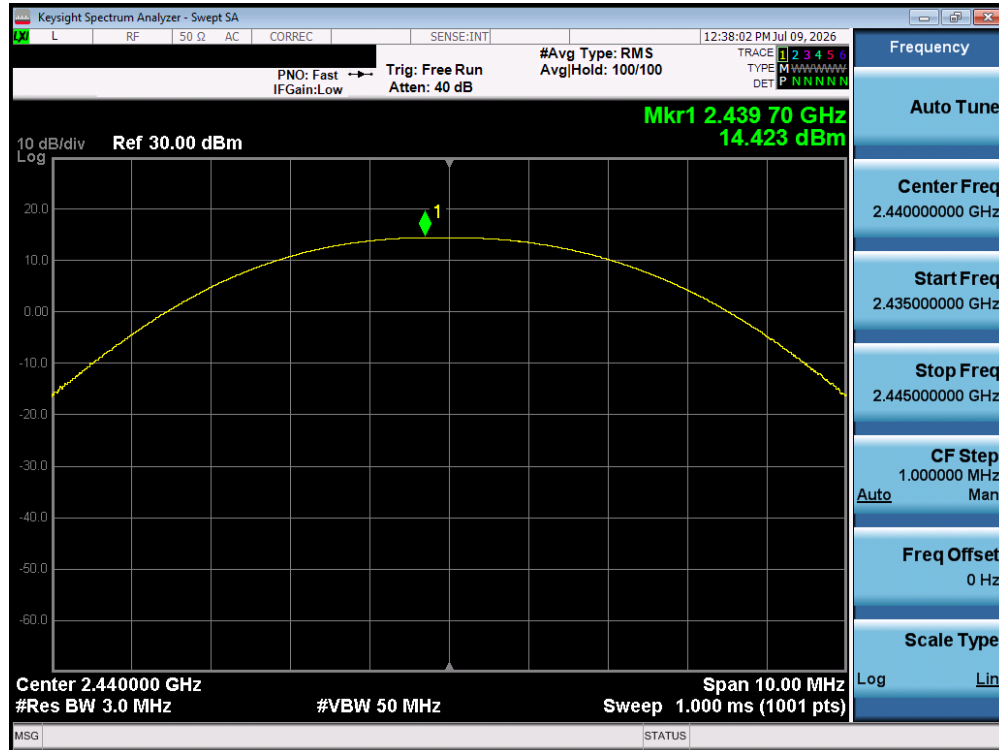


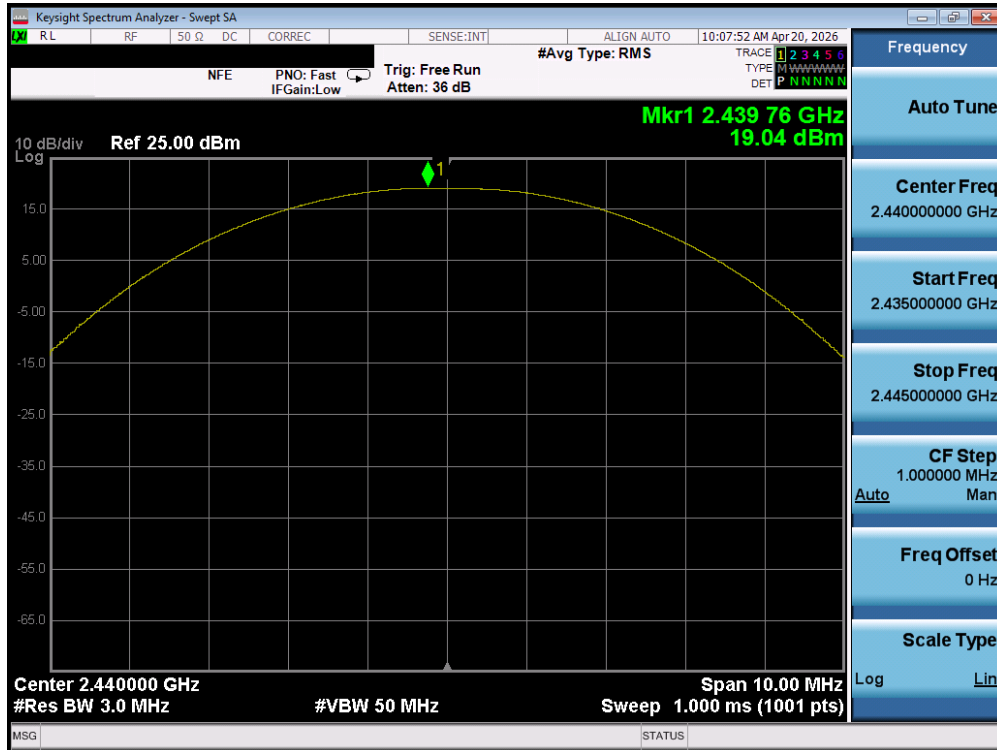
Plot 7-3. Peak Power Plot (Bluetooth (LE), 1Mbps - Ch. 17) - SISO Ant0



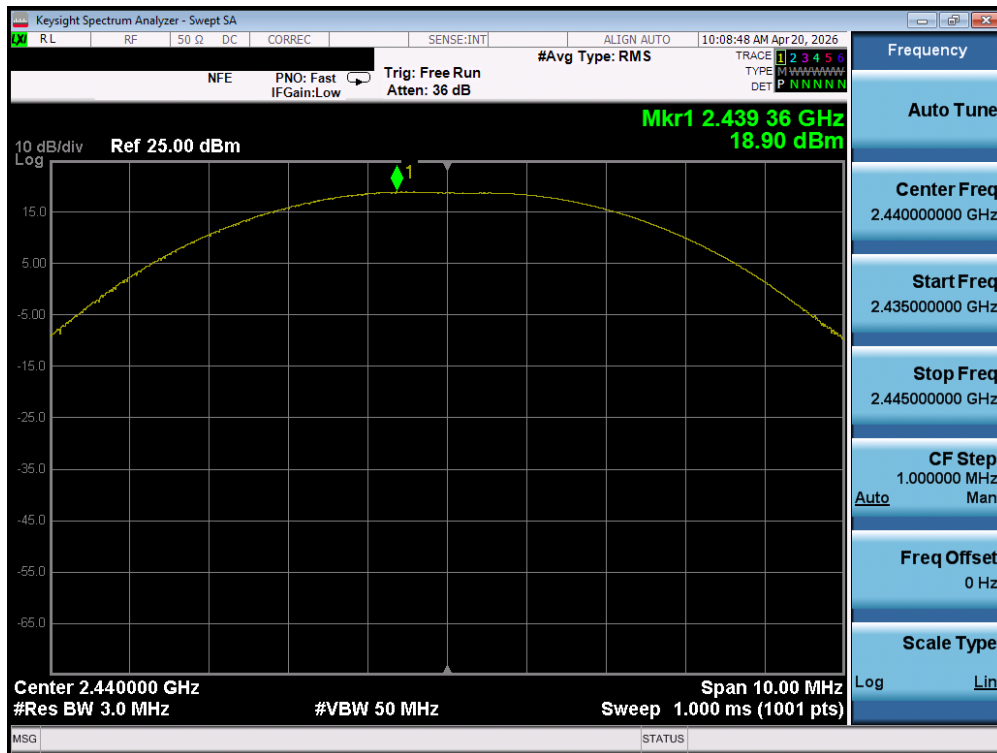
Plot 7-4. Peak Power Plot (Bluetooth (LE), 2Mbps - Ch. 17) - SISO Ant0

FCC ID: C3K00002101 IC ID: 3048A-00002101	MEASUREMENT REPORT (Class II Permissive Change)	Test Dates: 4/15/2026 - 7/9/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
Test Report S/N: 1M2603250028-08.C3K-R2	 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 33



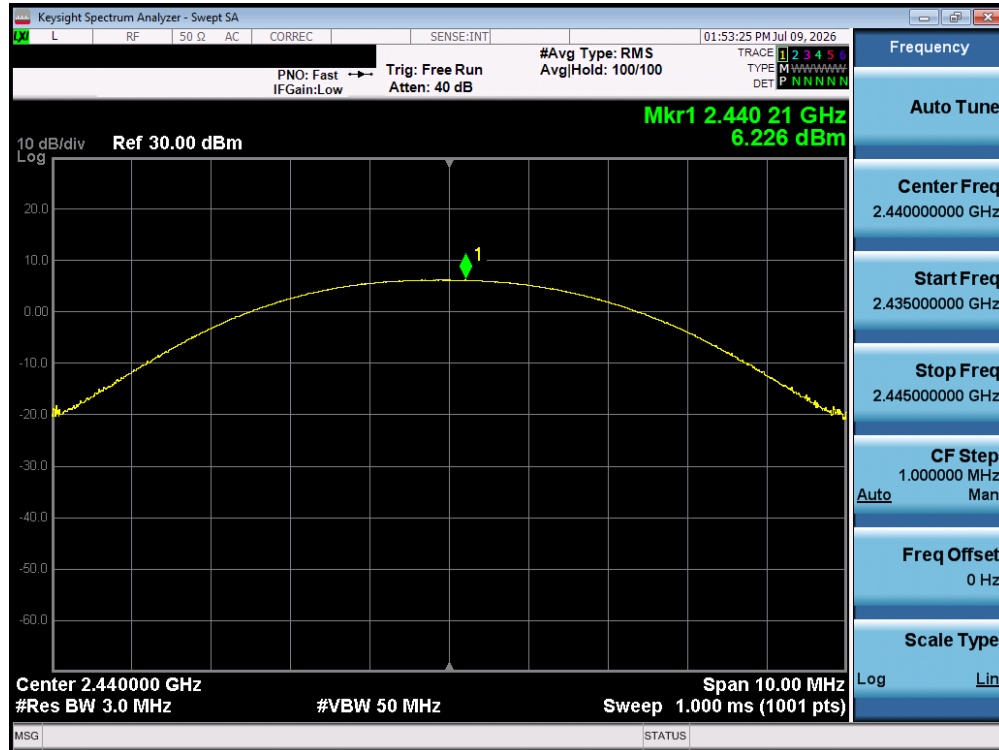


Plot 7-7. Peak Power Plot (Bluetooth (LE), 1Mbps - Ch. 17) - SISO Ant1

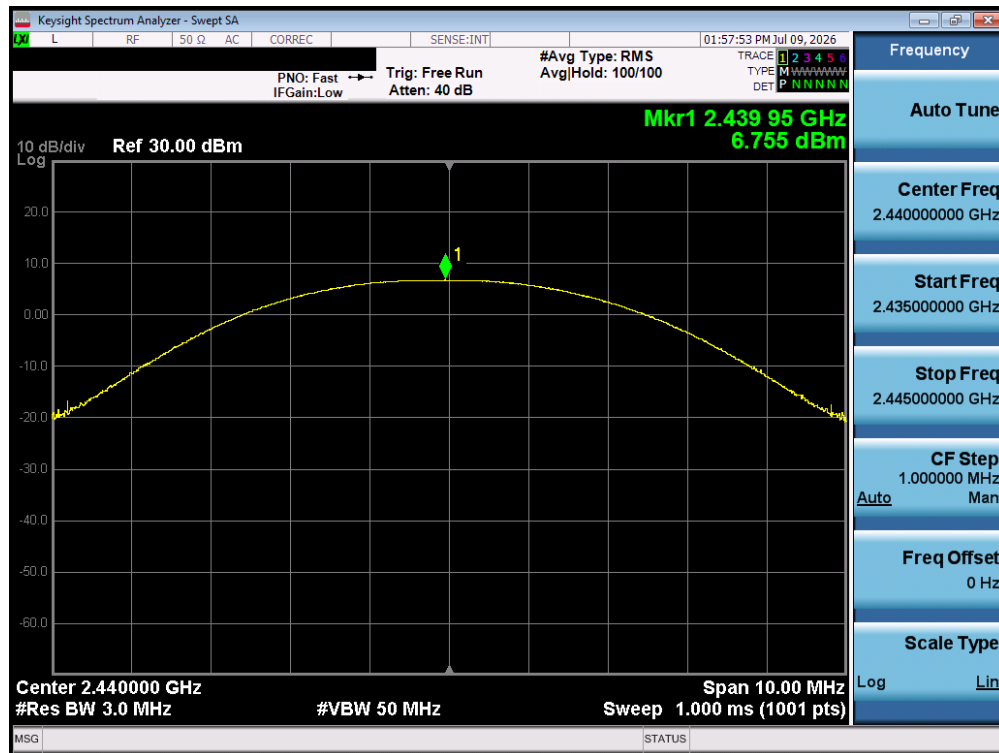


Plot 7-8. Peak Power Plot (Bluetooth (LE), 2Mbps - Ch. 17) - SISO Ant1

FCC ID: C3K00002101 IC ID: 3048A-00002101	MEASUREMENT REPORT (Class II Permissive Change)	Test Dates: 4/15/2026 - 7/9/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
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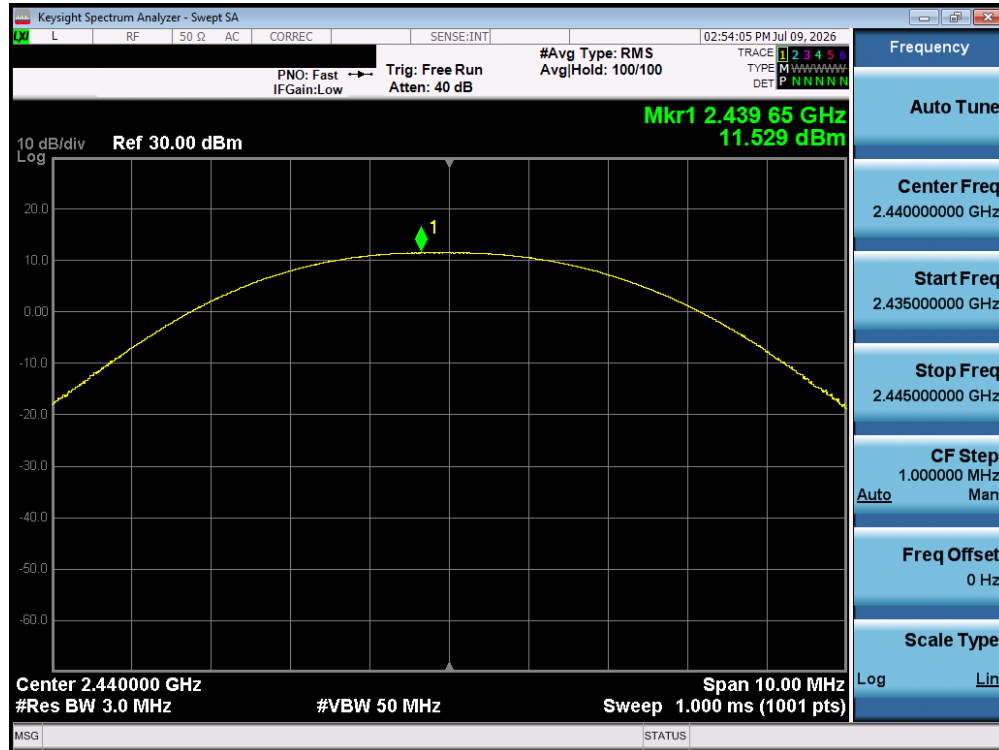


Plot 7-9. Peak Power Plot (Bluetooth (LE), 125kbps – Ch. 17) – MIMO Ant0

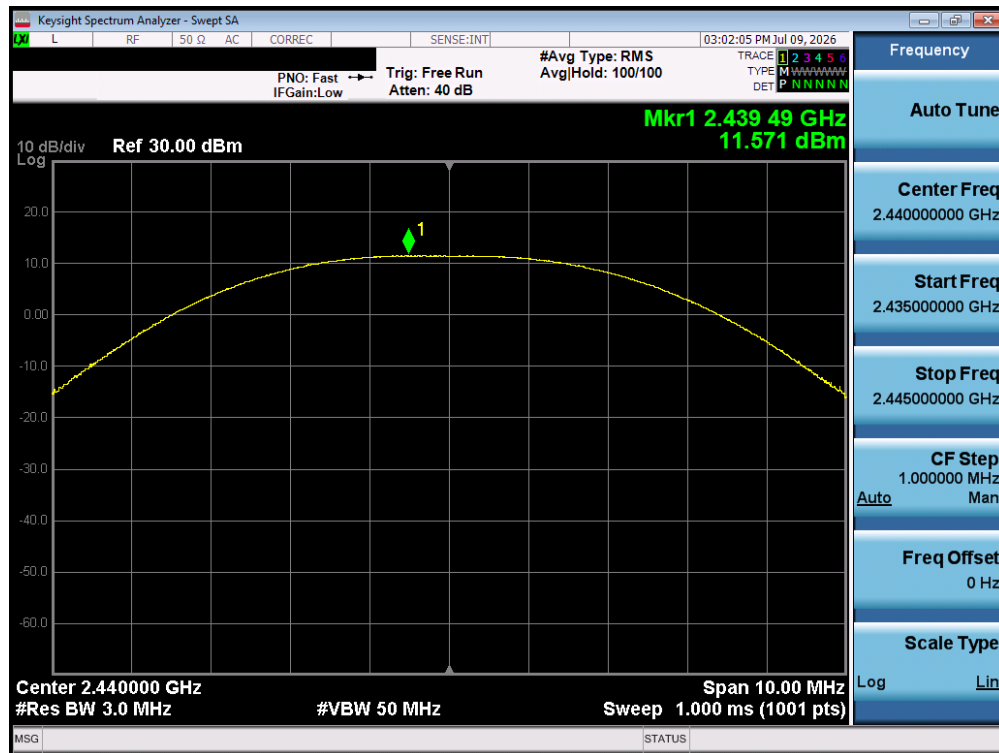


Plot 7-10. Peak Power Plot (Bluetooth (LE), 500kbps – Ch. 17) – MIMO Ant0

FCC ID: C3K00002101 IC ID: 3048A-00002101	MEASUREMENT REPORT (Class II Permissive Change)	Test Dates: 4/15/2026 – 7/9/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
Test Report S/N: 1M2603250028-08.C3K-R2	 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 33

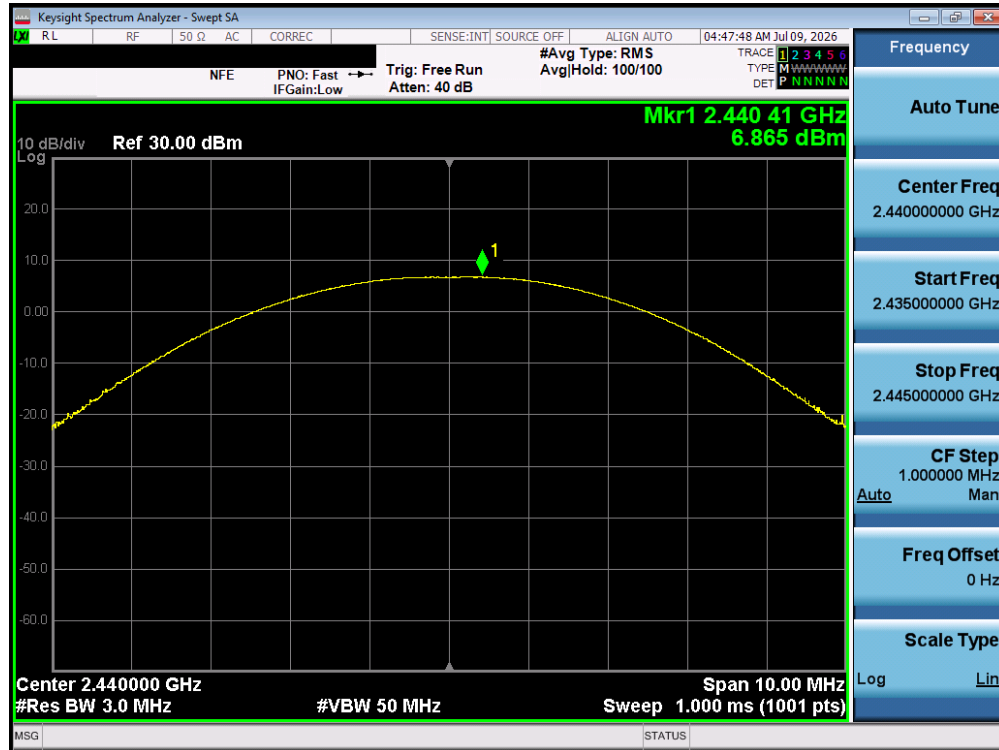


Plot 7-11. Peak Power Plot (Bluetooth (LE), 1Mbps – Ch. 17) – MIMO Ant0



Plot 7-12. Peak Power Plot (Bluetooth (LE), 2Mbps – Ch. 17) – MIMO Ant0

FCC ID: C3K00002101 IC ID: 3048A-00002101	MEASUREMENT REPORT (Class II Permissive Change)	Test Dates: 4/15/2026 – 7/9/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
Test Report S/N: 1M2603250028-08.C3K-R2	 This report is Blockchain Verified. To verify the report authenticity, please visit HTTPS://WWW.BLOCKCHAIN-VERIFIED.COM or by clicking on the Blockchain logo.			Page 22 of 33

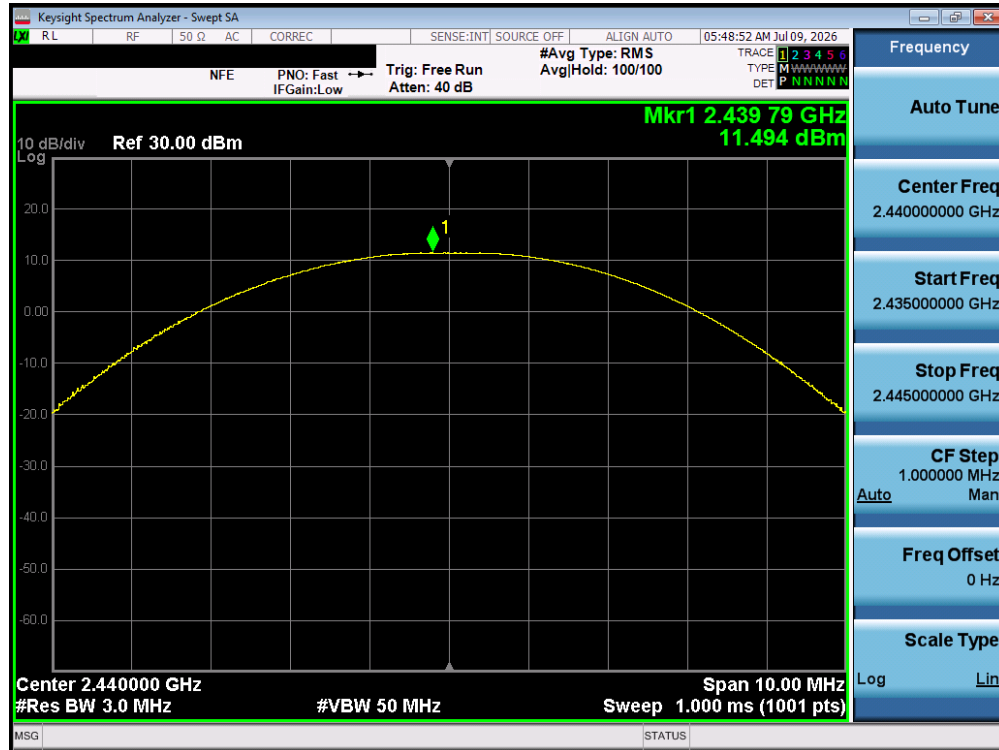


Plot 7-13. Peak Power Plot (Bluetooth (LE), 125kbps – Ch. 17) – MIMO Ant1

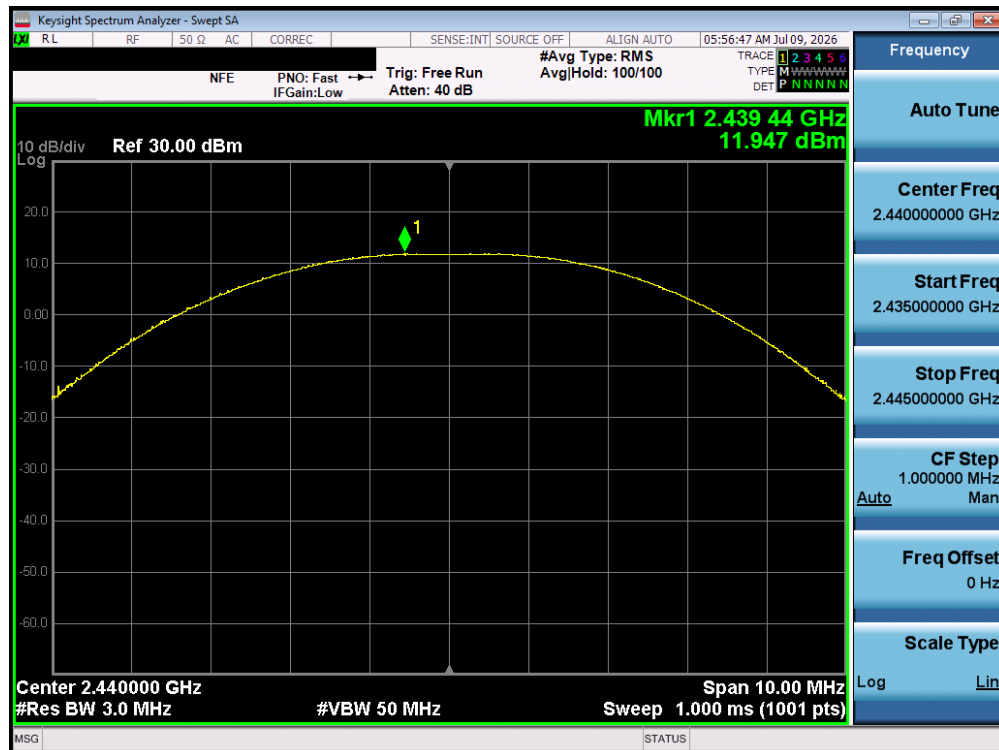


Plot 7-14. Peak Power Plot (Bluetooth (LE), 500kbps – Ch. 17) – MIMO Ant1

FCC ID: C3K00002101 IC ID: 3048A-00002101	MEASUREMENT REPORT (Class II Permissive Change)	Test Dates: 4/15/2026 – 7/9/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
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Plot 7-15. Peak Power Plot (Bluetooth (LE), 1Mbps – Ch. 17) – MIMO Ant1



Plot 7-16. Peak Power Plot (Bluetooth (LE), 2Mbps – Ch. 17) – MIMO Ant1

FCC ID: C3K00002101 IC ID: 3048A-00002101	MEASUREMENT REPORT (Class II Permissive Change)	Test Dates: 4/15/2026 – 7/9/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
Test Report S/N: 1M2603250028-08.C3K-R2	 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 33

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 in Table 7-5 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 Procedures Used

ANSI C63.10:2020 – Section 6.6.4.3

KDB 558074 D01 v05r02 – Section 8.6, 8.7

Test Settings

Average Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3kHz > 1/T
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 run for at least 50 times (1/duty cycle) traces

FCC ID: C3K00002101 IC ID: 3048A-00002101	MEASUREMENT REPORT (Class II Permissive Change)	Test Dates: 4/15/2026 – 7/9/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
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Peak Field Strength Measurements

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.

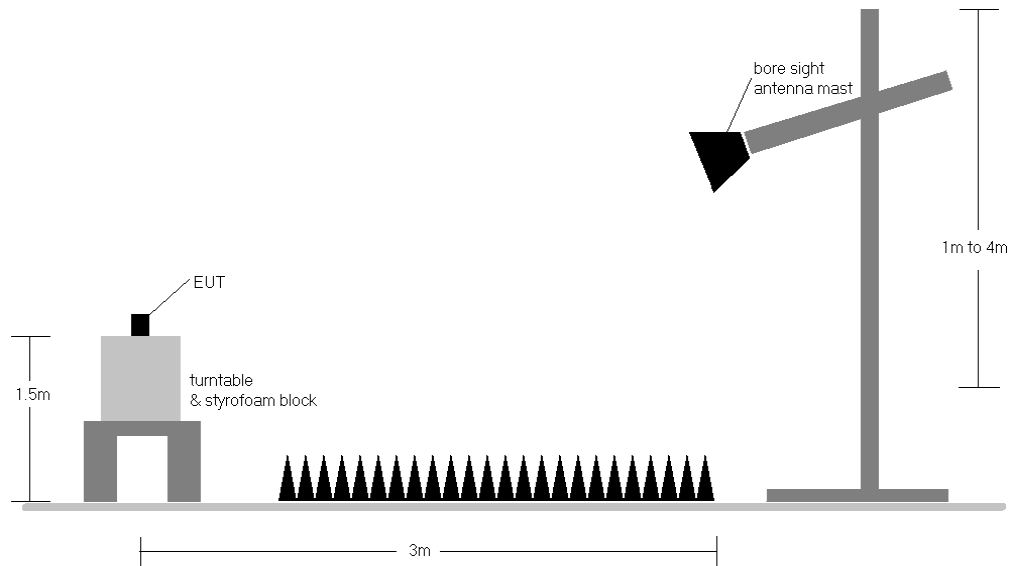


Figure 7-2. Radiated Test Setup >1GHz

FCC ID: C3K00002101 IC ID: 3048A-00002101	MEASUREMENT REPORT (Class II Permissive Change)	Test Dates: 4/15/2026 – 7/9/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
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Test Notes

1. The optional test procedures for antenna port conducted measurements of unwanted emissions per the guidance of KDB 558074 D01 v05r02 were not used to evaluate this device for compliance to radiated limits. All radiated spurious emissions levels were measured in a radiated test setup.
2. All emissions lying in restricted bands specified in §15.205 and Section 8.10 of RSS-Gen are below the limit shown in Table 7-5.
3. The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
4. This unit was tested with its standard battery.
5. The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter using CISPR quasi peak detector below 1GHz. Above 1 GHz, average and peak measurements were taken using linearly polarized horn antennas. The worst-case emissions are reported however emissions whose levels were not within 20dB of the respective limits were not reported.
6. Average measurements were recorded using a VBW of 3kHz, per Section 4.1.4.2.3 of ANSI C63.10:2020, since 1/T is equal to just under 3kHz. This method was used because the EUT could not be configured to operate with a duty cycle > 98%. Both average and peak measurements were made using a peak detector
7. Emissions below 18GHz were measured at a 3 meter test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.
8. No significant radiated band edge emissions were found in the 2310 – 2390MHz restricted band.
9. The "-" shown in the following RSE tables are 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 Calculations

Determining Spurious Emissions Levels

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

Conducted Band Edge Field Strength Conversion

- $\text{Field Strength Level}_{[dB\mu V/m]} = \text{EIRP}_{[dBm]} + 95.2$
 $= \text{Conducted Emission}_{[dBm]} + \text{Directional Gain}_{[dB]} + 95.2$

FCC ID: C3K00002101 IC ID: 3048A-00002101	MEASUREMENT REPORT (Class II Permissive Change)	Test Dates: 4/15/2026 – 7/9/2026	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]

DUAL ANTENNA

Bluetooth Mode: LE
 Distance of Measurements: 3 Meters
 Operating Frequency: 2440MHz
 Channel: 17

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]
4880.00	Avg	H	-	-	-78.68	2.42	30.74	53.98	-23.24
4880.00	Peak	H	-	-	-65.69	2.42	43.73	73.98	-30.25
7320.00	Avg	H	-	-	-79.56	8.27	35.71	53.98	-18.27
7320.00	Peak	H	-	-	-66.96	8.27	48.31	73.98	-25.67
12200.00	Avg	H	-	-	-81.07	13.35	39.28	53.98	-14.70
12200.00	Peak	H	-	-	-69.07	13.35	51.28	73.98	-22.70

Table 7-7. Radiated Measurements @ 3 meters

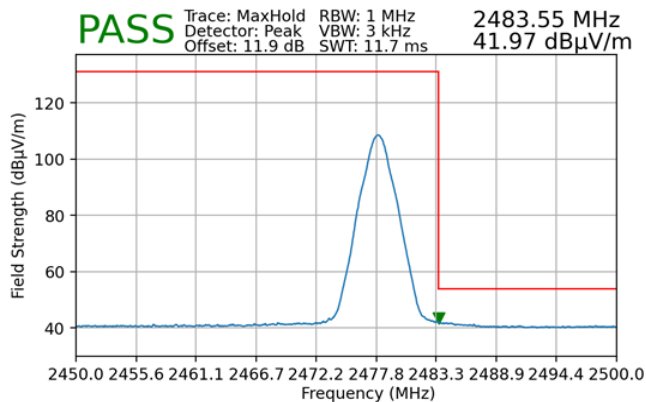
FCC ID: C3K00002101 IC ID: 3048A-00002101	MEASUREMENT REPORT (Class II Permissive Change)	Test Dates: 4/15/2026 – 7/9/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
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7.4 Radiated Restricted Band Edge Measurements

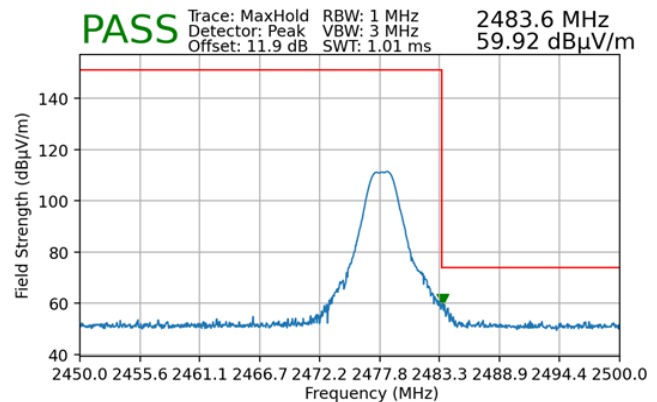
§15.205 §15.209; RSS-Gen [8.9]

The restricted band edge measurements are measured with an EMI test receiver connected to the EUT while transmitting. The test cases for restricted band edge measurements are based on the manufacturer's "Host test requirements for WIFI_BT module" document.

Bluetooth Mode:	LE
Measurement Distance:	3 Meters
Operating Frequency:	2480MHz
Channel:	39



Plot 7-17. Radiated Restricted Upper Band Edge Measurement (Average) – DUAL ANTENNA



Plot 7-18. Radiated Restricted Upper Band Edge Measurement (Peak) – DUAL ANTENNA

FCC ID: C3K00002101 IC ID: 3048A-00002101	MEASUREMENT REPORT (Class II Permissive Change)	Test Dates: 4/15/2026 – 7/9/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
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7.5 Line-Conducted Test 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

FCC ID: C3K00002101 IC ID: 3048A-00002101	MEASUREMENT REPORT (Class II Permissive Change)	Test Dates: 4/15/2026 – 7/9/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
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Test Setup

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

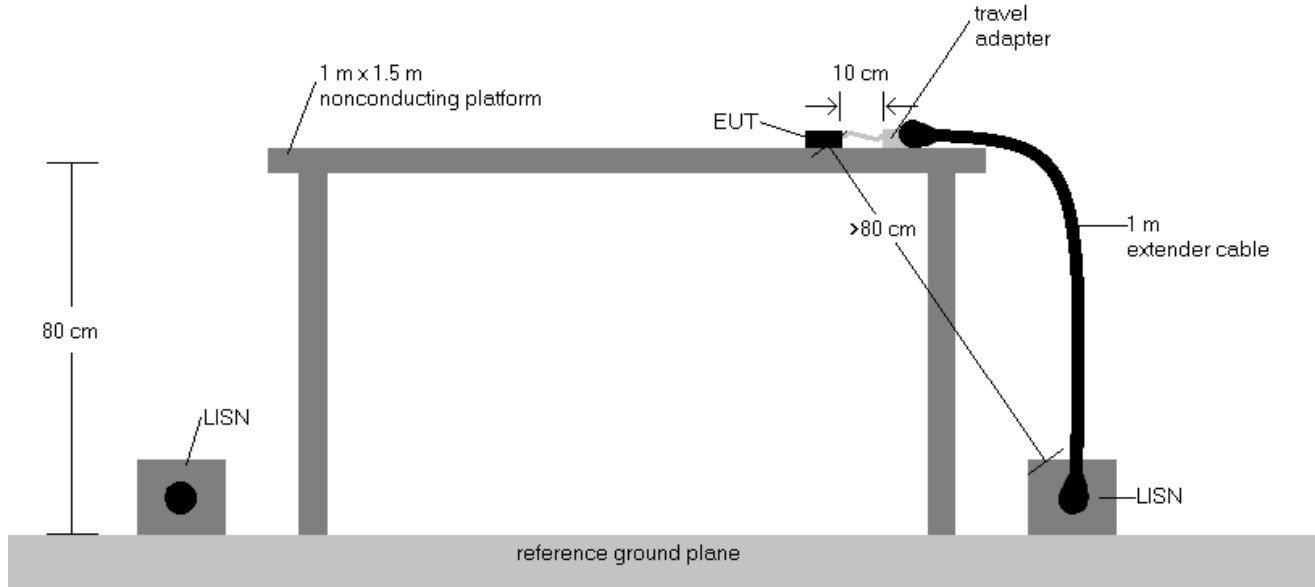
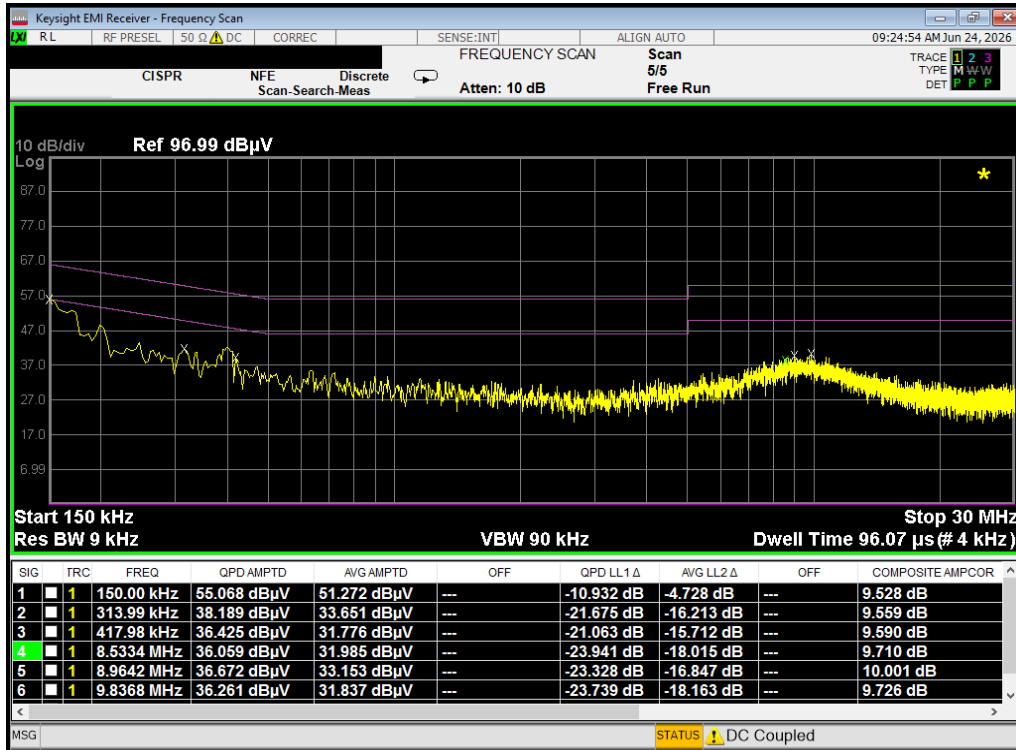


Figure 7-3. Test Instrument & Measurement Setup

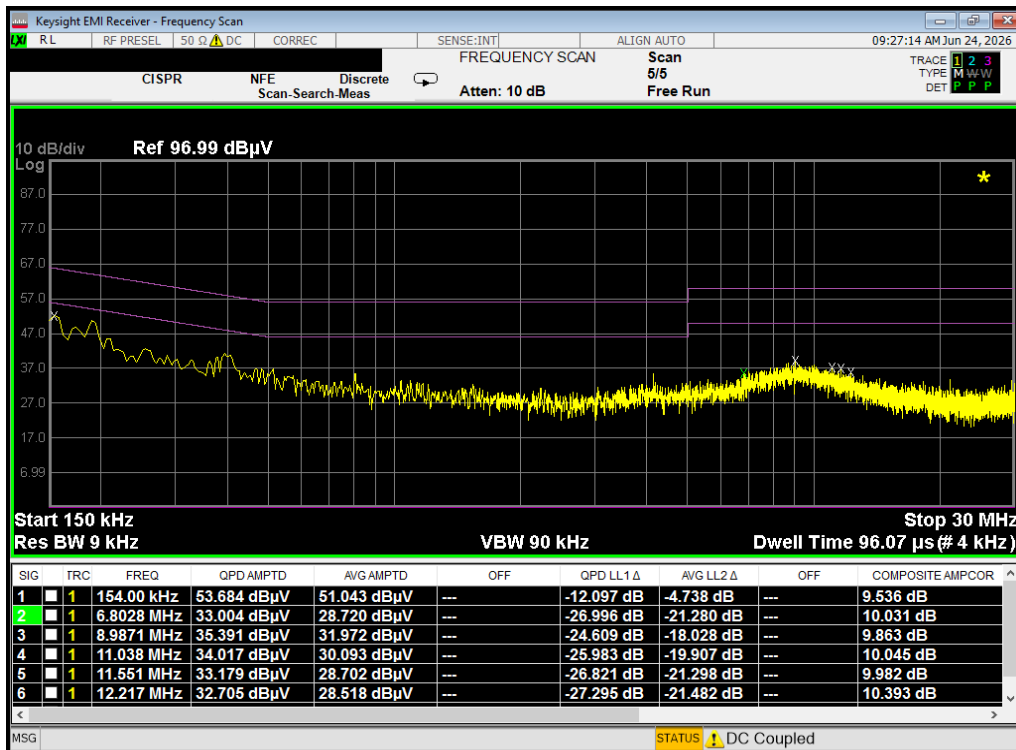
Test Notes

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 Part 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.

FCC ID: C3K00002101 IC ID: 3048A-00002101	MEASUREMENT REPORT (Class II Permissive Change)	Test Dates: 4/15/2026 – 7/9/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
Test Report S/N: 1M2603250028-08.C3K-R2	 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 33



Plot 7-19. Line Conducted Plot with Bluetooth LE (L1)



Plot 7-20. Line Conducted Plot with Bluetooth LE (N)

FCC ID: C3K00002101 IC ID: 3048A-00002101	MEASUREMENT REPORT (Class II Permissive Change)	Test Dates: 4/15/2026 – 7/9/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
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8.0 CONCLUSION

The data collected relate only the item(s) tested and show that the **Microsoft Corporation module FCC ID: C3K00002101 integrated into the host portable computing device (Model: 2150)** is in compliance the relevant FCC and ISCED rules for module integration into a host product.

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