

MEASUREMENT REPORT
FCC Part 15.407 802.11a/ax/be WiFi 6GHz**Applicant Name:**

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

Date of Testing:

4/15/2026 – 6/24/2026

Test Report Issue Date:

7/10/2026

Test Site/Location:

Element Lab., Columbia, MD, USA

Test Report Serial No.:

1M2603250028-11.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 Integrations

Model:

2150

HVIN:

HWB-Q94

EUT Type:

Limited Modular Approval – Host Integration

Frequency Range:

5935 – 7115MHz

Modulation Type:

OFDM, OFDMA

FCC Classification:

15E 6GHz Low Power Dual Client (6CD)

FCC Rule Part(s):

Part 15 Subpart E (15.407)

ISED Specification:

RSS-248 Issue 3

Test Procedure(s):

ANSI C63.10:2020 + Cor.1:2023 + C63.10a:2024 + Errata to
C63.10a:2024, KDB 987594 D02 v03,

Permissive Change(s):

Please see change document

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.10:2020. Test results reported herein relate only to the item(s) tested.

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



RJ Ortanez
Executive Vice President



FCC ID: C3K00002101 IC: 3048A-00002101	MEASUREMENT REPORT (Class II Permissive Change)	Test Dates: 4/15/2026 – 6/24/2026	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	6/25/2026	WKR0000005874

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1.0 INTRODUCTION

1.1 Scope

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

1.2 Element Test Location

Measurements were conducted at the Element laboratory(ies) indicated in Section 1.3 below. All measurement facilities are compliant with the test site requirements specified in ANSI C63.4-2014 and KDB 414788 D01 v01r01.

1.3 Test Facility / Accreditations

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

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

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2.0 PRODUCT INFORMATION

2.1 Equipment Description

The Equipment Under Test (EUT) is the **Microsoft Portable Computing Device containing module FCC ID: C3K00002101**. The test data contained in this report pertains only to the emissions due to the EUT's UNII transmitter.

The equipment under test (EUT) is a portable computing device, 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.: 0F7CR4R26093WK, 0F4TDQV26093WK, 0F4TDR726093WK

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), RFID/WPT

Band 5		Band 6		Band 7		Band 8	
Ch.	Frequency (MHz)	Ch.	Frequency (MHz)	Ch.	Frequency (MHz)	Ch.	Frequency (MHz)
2	5935	97	6435	117	6535	189	6895
:	:	:	:	:	:	:	:
45	6175	105	6475	149	6695	209	6995
:	:	:	:	:	:	:	:
93	6415	113	6515	185	6875	233	7115

Table 2-1. 802.11a/ax/be (20MHz) Frequency / Channel Operations

Band 5		Band 6		Band 7		Band 8	
Ch.	Frequency (MHz)	Ch.	Frequency (MHz)	Ch.	Frequency (MHz)	Ch.	Frequency (MHz)
3	5965	99	6445	123	6565	187	6885
:	:	:	:	:	:	:	:
43	6165	107	6485	155	6725	211	7005
:	:	:	:	:	:	:	:
91	6405	115	6525	179	6845	227	7085

Table 2-2. 802.11ax/be (40MHz BW) Frequency / Channel Operations

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Band 5

Ch.	Frequency (MHz)
7	5985
:	:
39	6145
:	:
87	6385

Band 6

Ch.	Frequency (MHz)
103	6465

Band 7

Ch.	Frequency (MHz)
119	6545
:	:
151	6705
:	:
183	6865

Band 8

Ch.	Frequency (MHz)
199	6945
:	:
215	7025

Table 2-3. 802.11ax/be (80MHz BW) Frequency / Channel Operations

Band 5

Ch.	Frequency (MHz)
15	6025
47	6185
79	6345

Band 6

Ch.	Frequency (MHz)
111	6505

Band 7

Ch.	Frequency (MHz)
143	6665
175	6825

Band 8

Ch.	Frequency (MHz)
207	6985

Table 2-4. 802.11ax/be (160MHz BW) Frequency / Channel Operations

Band 5

Ch.	Frequency (MHz)
31	6105
63	6265

Band 6

Ch.	Frequency (MHz)
95	6425

Band 7

Ch.	Frequency (MHz)
127	6585
159	6745

Band 8

Ch.	Frequency (MHz)
191	6905

Table 2-5. 802.11be (320MHz BW) Frequency / Channel Operations

Notes:

- 6GHz NII operation is possible in 20MHz, 40MHz, 80MHz, 160MHz, and 320MHz channel bandwidths. The maximum achievable duty cycles for all modes were determined based on measurements performed on a spectrum analyzer in zero-span mode with RBW = 8MHz, VBW = 50MHz, and detector = peak per the guidance of Section B)2)b) of ANSI C63.10:2020. The RBW and VBW were both greater than 50/T, where T is the minimum transmission duration, and the number of sweep points across T was greater than 100. The duty cycles are as follows:

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802.11 Mode/Band		MIMO (1+2)
		Duty Cycle [%]
6GHz	a	98.63
	ax (HE20)	99.24
	be (EHT20)	99.63
	ax (HE40)	98.74
	be (EHT40)	98.69
	ax (HE80)	98.75
	be (EHT80)	98.88
	ax (HE160)	98.87
	be (EHT160)	98.89
	be (EHT320)	97.95

Table 2-6. Measured Duty Cycles

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

WiFi Configurations		SISO		CDD		SDM	
		ANT1	ANT2	ANT1	ANT2	ANT1	ANT2
6GHz	11a	✓	✓	✓	✓	✗	✗
	11ax	✓	✓	✓	✓	✓	✓
	11be	✓	✓	✓	✓	✓	✓

Table 2-7. Antenna / Technology Configurations

✓ = Support; ✗ = NOT Support

SISO = Single Input Single Output

SDM = Spatial Diversity Multiplexing – MIMO function

CDD = Cyclic Delay Diversity – 2Tx Function

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

802.11a	MCS Index		Spatial Stream	OFDM (802.11a/be)														
				20MHz			40MHz			80MHz			160MHz			320MHz		
	HT	EHT		0.8μs GI	1.6μs GI	3.2μs GI	0.8μs GI	1.6μs GI	3.2μs GI	0.8μs GI	1.6μs GI	3.2μs GI	0.8μs GI	1.6μs GI	3.2μs GI	0.8μs GI	1.6μs GI	3.2μs GI
6	0	0	1	8.6	8.1	7.3	17.2	16.3	14.6	36	34	30.6	72.1	68.1	61.3	144.1	136.1	122.5
9	1	1	1	17.2	16.3	14.6	34.4	32.5	29.3	72.1	68.1	61.3	144.1	136.1	122.5	288.2	272.2	245
12	2	2	1	25.8	24.4	21.9	51.6	48.8	43.9	108.1	102.1	91.9	216.2	204.2	183.8	432.4	408.3	367.5
18	3	3	1	34.4	32.5	29.3	68.8	65	58.5	144.1	136.1	122.5	288.2	272.2	245	576.5	544.4	490
24	4	4	1	51.6	48.8	43.9	103.2	97.5	87.8	216.2	204.2	183.8	432.4	408.3	367.5	864.7	816.7	735
36	5	5	1	68.8	65	58.5	137.6	130	117	288.2	272.2	245	576.5	544.4	490	1152.9	1088.9	980
48	7	6	1	77.4	73.1	65.8	154.9	146.3	131.6	324.3	306.3	275.6	648.5	612.5	551.3	1297.1	1225	1102.5
54		7	1	86	81.3	73.1	172.1	162.5	146.3	360.3	340.3	306.3	720.6	680.6	612.5	1441.2	1361.1	1225
		8	1	103.2	97.5	87.8	206.5	195	175.5	432.4	408.3	367.5	864.7	816.7	735	1729.4	1633.3	1470
		9	1	114.7	108.3	97.5	229.4	216.7	195	480.4	453.7	408.3	960.8	907.4	816.7	1921.6	1814.8	1633.3
		10	1	129	121.9	109.7	258.1	243.8	219.4	540.4	510.4	459.4	1080.9	1020.8	918.8	2161.8	2041.7	1837.5
		11	1	143.4	135.4	121.9	286.8	270.8	243.8	600.5	567.1	510.4	1201	1134.3	1020.8	2402	2268.5	2041.7
		12	1	154.9	146.3	131.6	309.7	292.5	263.3	648.5	612.5	551.3	1297.1	1225	1102.5	2594.1	2450	2205
		13	1	172.1	162.5	146.3	344.1	325	292.5	720.6	680.6	612.5	1441.2	1361.1	1225	2882.4	2722.2	2450
6	8	0	2	17.2	16.3	14.6	34.4	32.5	29.3	72.1	68.1	61.3	144.1	136.1	122.5	288.2	272.2	245
9	9	1	2	34.4	32.5	29.3	68.8	65	58.5	144.1	136.1	122.5	288.2	272.2	245	576.5	544.4	490
12	10	2	2	51.6	48.8	43.9	103.2	97.5	87.8	216.2	204.2	183.8	432.4	408.3	367.5	864.7	816.7	735
18	11	3	2	68.8	65	58.5	137.6	130	117	288.2	272.2	245	576.5	544.4	490	1152.9	1088.9	980
24	12	4	2	103.2	97.5	87.8	206.5	195	175.5	432.4	408.3	367.5	864.7	816.7	735	1729.4	1633.3	1470
36	13	5	2	137.6	130	117	275.3	260	234	576.5	544.4	490	1152.9	1088.9	980	2305.9	2177.8	1960
48	14	6	2	154.9	146.3	131.6	309.7	292.5	263.3	648.5	612.5	551.3	1297.1	1225	1102.5	2594.1	2450	2205
54	15	7	2	172.1	162.5	146.3	344.1	325	292.5	720.6	680.6	612.5	1441.2	1361.1	1225	2882.4	2722.2	2450
		8	2	206.5	195	175.5	412.9	390	351	864.7	816.7	735	1729.4	1633.3	1470	3458.8	3266.7	2940
		9	2	229.4	216.7	195	458.8	433.3	390	960.8	907.4	816.7	1921.6	1814.8	1633.3	3843.1	3629.6	3266.7
		10	2	258.1	243.8	219.4	516.2	487.5	438.8	1080.9	1020.8	918.8	2161.8	2041.7	1837.5	4323.5	4083.3	3675
		11	2	286.8	270.8	243.8	573.5	541.7	487.5	1201	1134.3	1020.8	2402	2268.5	2041.7	4803.9	4537	4083.3
		12	2	309.7	292.5	263.3	619.4	585	526.5	1297.1	1225	1102.5	2594.1	2450	2205	5188.2	4900	4410
		13	2	344.1	325	292.5	688.2	650	585	1441.2	1361.1	1225	2882.4	2722.2	2450	5764.7	5444.4	4900

Table 2-8. Supported Data Rates

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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.

	ANT1 Peak Gain [dBi]	ANT2 Peak Gain [dBi]	Measured Correlated Directional Gain [dBi]	Measured Uncorrelated Directional Gain [dBi]
5925 – 6425 MHz	5.98	6.11	8.74	5.73
6425 – 6525 MHz	3.17	3.16	5.03	3.16
6525 – 6875 MHz	3.49	2.06	5.68	2.69
6875 – 7125 MHz	3.97	1.91	5.87	2.88

Table 2-9. Antenna Peak Gain

The directional antenna gains were measured per the guidance of KDB 662911 D03. The measurement report is uploaded as part of this filing.

2.4 Test Configuration

The EUT was tested per the guidance of ANSI C63.10:2020 and KDB 987594 D02 v01r01. 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.

This device supports operation under control of either a low-power indoor access point or standard power access point. The worst-case emissions data is shown in this report.

This device operates in the 5.925-7.125 GHz band when under control of a low power indoor access point. Additionally, the device may operate in the 5.925-6.425 GHz and 6.525-6.875 GHz bands when under control of a standard power access point.

2.5 Software and Firmware

The test was conducted with 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.

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3.0 DESCRIPTION OF TESTS

3.1 Evaluation Procedure

The measurement procedures described in the American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices (ANSI C63.10:2020) and the guidance provided in KDB 987594 D02 v01r01 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 shielding effectiveness of the shielded room is in accordance with MIL-Std-285 or NSA 65-5. A 1m x 1.5m wooden table 80cm high is placed 40cm away from the vertical wall and 80cm away from the sidewall of the shielded room. Two 10kHz-30MHz, 50Ω/50μH Line-Impedance Stabilization Networks (LISNs) are bonded to the shielded room floor. Power to the LISNs is filtered by external high-current high-insertion loss power line filters. The external power line filter is an ETS Lindgren Model LPRX-4X30 (100dB Attenuation, 14kHz-18GHz) and the two EMI/RFI filters are ETS Lindgren Model LRW-2030-S1 (100dB Minimum Insertion Loss, 14kHz – 10GHz). These filters attenuate ambient signal noise from entering the measurement lines. These filters are also bonded to the shielded enclosure.

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

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

Line conducted emissions test results are shown in Section 7.3. 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 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 precautions were 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 were 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)
Contention Based Protocol Conducted Measurements	0.86
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

FCC ID: C3K00002101 IC: 3048A-00002101	MEASUREMENT REPORT (Class II Permissive Change)	Test Dates: 4/15/2026 – 6/24/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
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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
-	MVG-001	EMC Cable and Switch System	2/2/2026	Annual	2/2/2027	MVG-001
-	MVG-002	EMC Cable and Switch System	2/2/2026	Annual	2/2/2027	MVG-002
-	AP1-002	EMC Cable and Switch System	2/3/2026	Annual	2/3/2027	AP1-002
-	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
-	WL25-1	Conducted Cable Set (25GHz)	1/30/2026	Annual	1/30/2027	WL25-1
-	WL25-2	Conducted Cable Set (25GHz)	1/30/2026	Annual	1/30/2027	WL25-2
-	WL40-1	Conducted Cable Set (40GHz)	1/30/2026	Annual	1/30/2027	WL40-1
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
ETSLindgren	3117	1-18 GHz DRG Horn (Medium)	6/4/2025	Biennial	6/4/2027	125518
Keysight Technologies	N9030A	PXA Signal Analyzer	11/3/2025	Annual	11/3/2026	MY54490576
Keysight Technologies	N9038A	MXE EMI Receiver	11/10/2025	Annual	11/10/2026	MY51210133
Keysight Technologies	N9020A	MXA Signal Analyzer	5/7/2025	Annual	5/7/2026	US46470561
Keysight Technologies	N9030A	PXA Signal Analyzer (44GHz)	6/6/2025	Annual	6/6/2026	MY52350166
Pasternack	NMLC-2	Line Conducted Emissions Cable (NM)	1/30/2026	Annual	1/30/2027	NMLC-2
Rohde & Schwarz	ESU26	EMI Test Receiver (26.5GHz)	12/19/2025	Annual	12/19/2026	100342
Rohde & Schwarz	ESU40	EMI Test Receiver (40GHz)	1/16/2026	Annual	1/16/2027	100348
Rohde & Schwarz	ESW44	EMI Test Receiver 2Hz to 44 GHz	3/11/2026	Annual	3/11/2027	101716
Rohde & Schwarz	ESU26	EMI Test Receiver (26.5GHz)	12/19/2025	Annual	12/19/2026	100342
Rohde & Schwarz	ENV216	Two-Line V-Network	2/4/2026	Biennial	2/4/2028	101379
Sunol	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
MegaPhase (CAGE 1GVT4) Cable NC29-N1N1-324	20379901 001
Sucoflex Cable 126E	S/N:551792
Rohde & Schwarz SF Unit	102155
SMU/RF-A OUT cable	1127118600 10 06 379

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

Component	Serial Number
Sucoflex 106A Cable	501992
MegaPhase Cable N29-N1N1-324	20335606 001
Rohde & Schwarz SF Unit	102133
MiniCircuits Cable CBL-2FT-SMSM+	77745
MegaPhase Cable 10511-1	15034701 001
MiniCircuits Switch RC 2SPDT-A18	11703270 041
Sucoflex 104 Cable	320259/4
Sucoflex 104 Cable	321999/4
Sucoflex 104 Cable	321995/4

Table 6-5. AP1-002 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 6-6. AP2-001 EMC Cable and Switch System Components

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

Table 6-7. AP2-002 EMC Cable and Switch System Components

FCC ID: C3K00002101 IC: 3048A-00002101	MEASUREMENT REPORT (Class II Permissive Change)	Test Dates: 4/15/2026 – 6/24/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
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Component	Serial Number
MegaPhase Cable TM26-S1S1-36	18160103 003
Pasternack 6dB Attenuator PE7005-6	N/A

Table 6-8. WL25-1 Conducted Cable Set Components

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

Table 6-9. WL25-2 Conducted Cable Set Components

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

Table 6-10. WL40-1 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.

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7.0 TEST RESULTS

7.1 Summary

Company Name: Microsoft Corporation
 FCC ID: C3K00002101
 FCC Classification: 15E 6GHz Low Power Dual Client (6CD)

FCC Part Section(s)	RSS Section(s)	Test Description	Test Limit	Test Condition	Test Result	Reference
2.1046, 15.407(a)(11)	RSS-248(4.5)	Maximum Conducted Output Power	N/A	CONDUCTED	PASS	Section 7.2
15.407(a)(8), 15.407(a)(7)	RSS-248(4.5)	Maximum Radiated Output Power	< 24dBm over the frequency band of operation <30dBm over the frequency band of operation when connecting to a standard power access point		PASS	Section 7.2
15.407(b)(6)	RSS-248(4.6)	Undesirable Emissions	< -27dBm/MHz e.i.r.p. outside of the 5.925 – 7.125GHz band	RADIATED / CONDUCTED	PASS	Section 7.3
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		PASS	Section 7.3
15.407(b)(9)	RSS-Gen (8.8)	AC Conducted Emissions (150kHz – 30MHz)	< FCC 15.207 limits	LINE CONDUCTED	PASS	Section 7.4

Table 7-1. Summary of Test Results

Notes:

- 1) All channels, modes, and modulations/data rates were investigated among all UNII bands. The test results shown in the following sections represent the worst-case emissions.
- 2) For 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 1.6.4.
- 3) The test data shown in this report follows the test plan prepared by the Grantee after consultation with FCC.

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7.2 UNII Output Power Measurement

Test Overview and Limits

A transmitter antenna terminal of the EUT is connected to the input of an RF pulse power sensor. Measurement is made using a broadband average power meter while the EUT is operating at its maximum duty cycle, at its maximum power control level, as defined in ANSI C63.10:2020, and at the appropriate frequencies.

For client devices operating under the control of an indoor access point in the 5.925-7.125 GHz bands, the maximum e.i.r.p. over the frequency band of operation must not exceed 24 dBm. For client devices operating under the control of a standard power access point, the maximum e.i.r.p. over the frequency band of operation must not exceed 30 dBm and the device must limit its power to no more than 6 dB below its associated standard power access point's authorized transmit power.

Test Procedure Used

ANSI C63.10:2020 – Section 12.4.3.2 Method PM-G
ANSI C63.10:2020 – Section 14.5.2.3 Measure-and-Sum Technique

Test Settings

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

Test Setup

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

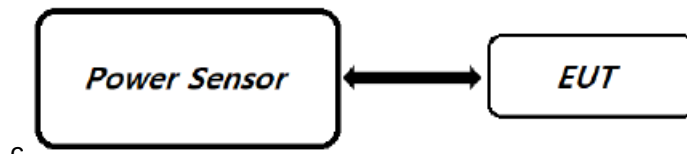


Figure 7-1. Test Instrument & Measurement Setup

Test Notes

1. Compliance for this device while operating under the control of either an indoor low power access point or a standard power access point is demonstrated by applying the tighter low power indoor access point limit of 24dBm e.i.r.p. where LPI and SP power targets are identical.
2. Power targets for punctured test cases match the next smallest bandwidth. E.g. 80MHz punctured target = 40MHz full bandwidth target, 160MHz punctured target = 80MHz full bandwidth target, etc.
3. Standard Power operation on band 6 is only supported for Canada.

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MIMO Maximum Conducted Output Power Measurements

6GHz WIFI (20MHz 802.11a MIMO)						Directional Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]						
			ANT1	ANT2	MIMO				
UNII-5	5955	1	-2.39	-2.66	0.49	5.73	6.22	24.00	-17.78
	6175	45	-2.39	-2.63	0.50	5.73	6.23	24.00	-17.77
	6415	93	-2.56	-3.00	0.24	5.73	5.97	24.00	-18.03
UNII-6	6435	97	-0.60	-1.45	2.01	3.16	5.17	24.00	-18.83
	6475	105	-0.40	-1.50	2.10	3.16	5.26	24.00	-18.74
	6515	113	-0.50	-1.52	2.03	3.16	5.19	24.00	-18.81
UNII-7	6535	117	-0.41	-1.60	2.05	2.69	4.74	24.00	-19.26
	6675	145	-0.10	-1.20	2.40	2.69	5.09	24.00	-18.91
	6695	149	-0.10	-1.15	2.42	2.69	5.11	24.00	-18.89
	6875	185	-0.70	-1.00	2.16	2.88	5.04	24.00	-18.96
UNII-8	6895	189	-0.75	-1.00	2.14	2.88	5.02	24.00	-18.98
	6995	209	-0.55	-0.80	2.34	2.88	5.22	24.00	-18.78
	7115	233	-4.42	-4.25	-1.32	2.88	1.56	24.00	-22.44

Table 7-2. MIMO 20MHz BW 802.11a (UNII) Maximum Conducted Output Power – LPI

6GHz WIFI (20MHz 802.11ax MIMO)						Directional Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]						
			ANT1	ANT2	MIMO				
UNII-5	5955	1	-2.28	-2.60	0.57	5.73	6.30	24.00	-17.70
	6175	45	-2.90	-2.80	0.16	5.73	5.89	24.00	-18.11
	6415	93	-2.07	-2.80	0.59	5.73	6.32	24.00	-17.68
UNII-6	6435	97	-0.53	-1.29	2.12	3.16	5.28	24.00	-18.72
	6475	105	-0.39	-1.42	2.14	3.16	5.30	24.00	-18.70
	6515	113	-0.33	-1.30	2.22	3.16	5.38	24.00	-18.62
UNII-7	6535	117	-0.20	-1.45	2.23	2.69	4.92	24.00	-19.08
	6675	145	-0.39	-1.55	2.08	2.69	4.77	24.00	-19.23
	6695	149	-0.39	-1.39	2.15	2.69	4.84	24.00	-19.16
	6875	185	-0.90	-1.00	2.06	2.88	4.94	24.00	-19.06
UNII-8	6895	189	-0.90	-1.10	2.01	2.88	4.89	24.00	-19.11
	6995	209	-0.80	-1.00	2.11	2.88	4.99	24.00	-19.01
	7115	233	-4.50	-4.45	-1.46	2.88	1.42	24.00	-22.58

Table 7-3. MIMO 20MHz BW 802.11ax (UNII) Maximum Conducted Output Power– LPI

6GHz WIFI (20MHz 802.11be MIMO)						Directional Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]						
			ANT1	ANT2	MIMO				
UNII-5	5955	1	-2.29	-2.68	0.53	5.73	6.26	24.00	-17.74
	6175	45	-2.90	-2.70	0.21	5.73	5.94	24.00	-18.06
	6415	93	-2.01	-2.82	0.61	5.73	6.34	24.00	-17.66
UNII-6	6435	97	-0.50	-1.29	2.13	3.16	5.29	24.00	-18.71
	6475	105	-0.56	-1.30	2.10	3.16	5.26	24.00	-18.74
	6515	113	-0.36	-1.38	2.17	3.16	5.33	24.00	-18.67
UNII-7	6535	117	-0.22	-1.50	2.20	2.69	4.89	24.00	-19.11
	6675	145	-0.50	-1.55	2.02	2.69	4.71	24.00	-19.29
	6695	149	-0.39	-1.40	2.14	2.69	4.83	24.00	-19.17
	6875	185	-0.75	-1.26	2.01	2.88	4.89	24.00	-19.11
UNII-8	6895	189	-0.85	-1.15	2.01	2.88	4.89	24.00	-19.11
	6995	209	-0.90	-1.00	2.06	2.88	4.94	24.00	-19.06
	7115	233	-4.20	-3.95	-1.06	2.88	1.82	24.00	-22.18

Table 7-4. MIMO 20MHz BW 802.11be (UNII) Maximum Conducted Output Power– LPI

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6GHz WIFI (40MHz 802.11ax MIMO)						Directional Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]						
			ANT1	ANT2	MIMO				
UNII-5	5965	3	1.69	1.68	4.70	5.73	10.43	24.00	-13.57
	6165	43	2.69	2.90	5.81	5.73	11.54	24.00	-12.46
	6285	67	2.56	2.75	5.67	5.73	11.40	24.00	-12.60
	6405	91	3.22	2.65	5.95	5.73	11.68	24.00	-12.32
UNII-6	6445	99	3.00	2.65	5.84	3.16	9.00	24.00	-15.00
	6485	107	3.03	2.50	5.78	3.16	8.94	24.00	-15.06
	6525	115	3.00	2.51	5.77	3.16	8.93	24.00	-15.07
UNII-7	6565	123	3.11	2.69	5.92	2.69	8.61	24.00	-15.39
	6685	147	3.30	2.30	5.84	2.69	8.53	24.00	-15.47
	6725	155	2.90	2.26	5.60	2.69	8.29	24.00	-15.71
	6845	179	2.96	2.50	5.75	2.69	8.44	24.00	-15.56
UNII-8	6885	187	3.00	2.70	5.86	2.88	8.74	24.00	-15.26
	7005	211	2.90	2.59	5.76	2.88	8.64	24.00	-15.36
	7085	227	3.00	3.03	6.03	2.88	8.91	24.00	-15.09

Table 7-5. MIMO 40MHz BW 802.11ax (UNII) Maximum Conducted Output Power– LPI

6GHz WIFI (40MHz 802.11be MIMO)						Directional Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]						
			ANT1	ANT2	MIMO				
UNII-5	5965	3	2.48	1.52	5.04	5.73	10.77	24.00	-13.23
	6165	43	2.75	2.89	5.83	5.73	11.56	24.00	-12.44
	6285	67	2.50	2.69	5.61	5.73	11.34	24.00	-12.66
	6405	91	3.10	2.60	5.87	5.73	11.60	24.00	-12.40
UNII-6	6445	99	2.90	2.59	5.76	3.16	8.92	24.00	-15.08
	6485	107	2.98	2.50	5.76	3.16	8.92	24.00	-15.08
	6525	115	3.40	2.85	6.14	3.16	9.30	24.00	-14.70
UNII-7	6565	123	3.00	2.69	5.86	2.69	8.55	24.00	-15.45
	6685	147	2.85	2.20	5.55	2.69	8.24	24.00	-15.76
	6725	155	3.49	2.96	6.24	2.69	8.93	24.00	-15.07
	6845	179	2.95	2.50	5.74	2.69	8.43	24.00	-15.57
UNII-8	6885	187	3.00	2.70	5.86	2.88	8.74	24.00	-15.26
	7005	211	2.90	2.50	5.71	2.88	8.59	24.00	-15.41
	7085	227	3.00	2.89	5.96	2.88	8.84	24.00	-15.16

Table 7-6. MIMO 40MHz BW 802.11be (UNII) Maximum Conducted Output Power– LPI

6GHz WIFI (80MHz 802.11ax MIMO)						Directional Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]						
			ANT1	ANT2	MIMO				
UNII-5	5985	7	5.00	5.20	8.11	5.73	13.84	24.00	-10.16
	6145	39	5.80	5.60	8.71	5.73	14.44	24.00	-9.56
	6305	71	5.55	5.50	8.54	5.73	14.27	24.00	-9.73
	6385	87	6.00	5.52	8.78	5.73	14.51	24.00	-9.49
UNII-6	6465	103	6.20	5.65	8.94	3.16	12.10	24.00	-11.90
UNII-7	6545	119	5.69	5.00	8.37	3.16	11.53	24.00	-12.47
	6705	151	6.78	6.10	9.46	2.69	12.15	24.00	-11.85
	6785	167	6.52	6.00	9.28	2.69	11.97	24.00	-12.03
	6865	183	6.80	6.20	9.52	2.88	12.40	24.00	-11.60
UNII-8	6945	199	6.22	6.00	9.12	2.88	12.00	24.00	-12.00
	7025	215	6.12	6.00	9.07	2.88	11.95	24.00	-12.05

Table 7-7. MIMO 80MHz BW 802.11ax (UNII) Maximum Conducted Output Power – LPI

FCC ID: C3K00002101 IC: 3048A-00002101	MEASUREMENT REPORT (Class II Permissive Change)	Test Dates: 4/15/2026 – 6/24/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
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6GHz WIFI (80MHz 802.11be MIMO)						Directional Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]						
			ANT1	ANT2	MIMO				
UNII-5	5985	7	5.03	5.16	8.11	5.73	13.84	24.00	-10.16
	6145	39	5.79	5.55	8.68	5.73	14.41	24.00	-9.59
	6305	71	5.56	5.52	8.55	5.73	14.28	24.00	-9.72
	6385	87	6.00	5.50	8.77	5.73	14.50	24.00	-9.50
UNII-6	6465	103	6.23	5.70	8.98	3.16	12.14	24.00	-11.86
UNII-7	6545	119	5.69	5.00	8.37	3.16	11.53	24.00	-12.47
	6705	151	6.78	6.00	9.42	2.69	12.11	24.00	-11.89
	6785	167	6.89	6.20	9.57	2.69	12.26	24.00	-11.74
	6865	183	6.83	6.26	9.56	2.88	12.44	24.00	-11.56
UNII-8	6945	199	6.82	6.38	9.62	2.88	12.50	24.00	-11.50
	7025	215	6.80	6.42	9.62	2.88	12.50	24.00	-11.50

Table 7-8. MIMO 80MHz BW 802.11be (UNII) Maximum Conducted Output Power – LPI

6GHz WIFI (160MHz 802.11ax MIMO)						Directional Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]						
			ANT1	ANT2	MIMO				
UNII-5	6025	15	7.06	7.45	10.27	5.73	16.00	24.00	-8.00
	6185	47	8.08	8.20	11.15	5.73	16.88	24.00	-7.12
	6345	79	8.69	8.25	11.49	5.73	17.22	24.00	-6.78
UNII-6	6505	111	8.90	8.29	11.62	3.16	14.78	24.00	-9.22
UNII-7	6665	143	9.25	8.50	11.90	2.69	14.59	24.00	-9.41
	6825	175	9.36	8.80	12.10	2.88	14.98	24.00	-9.02
UNII-8	6985	207	5.90	5.75	8.84	2.88	11.72	24.00	-12.28

Table 7-9. MIMO 160MHz BW 802.11ax (UNII) Maximum Conducted Output Power – LPI

6GHz WIFI (160MHz 802.11be MIMO)						Directional Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]						
			ANT1	ANT2	MIMO				
UNII-5	6025	15	7.02	7.36	10.20	5.73	15.93	24.00	-8.07
	6185	47	8.03	8.15	11.10	5.73	16.83	24.00	-7.17
	6345	79	8.69	8.20	11.46	5.73	17.19	24.00	-6.81
UNII-6	6505	111	8.82	8.23	11.55	3.16	14.71	24.00	-9.29
UNII-7	6665	143	9.49	8.60	12.08	2.69	14.77	24.00	-9.23
	6825	175	9.28	8.70	12.01	2.88	14.89	24.00	-9.11
UNII-8	6985	207	5.90	5.69	8.81	2.88	11.69	24.00	-12.31

Table 7-10. MIMO 160MHz BW 802.11be (UNII) Maximum Conducted Output Power – LPI

6GHz WIFI (320MHz 802.11be MIMO)						Directional Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]						
			ANT1	ANT2	MIMO				
UNII-5	6105	31	10.05	10.00	13.04	5.73	18.77	24.00	-5.23
UNII-5	6265	63	10.33	10.23	13.29	5.73	19.02	24.00	-4.98
UNII-6	6425	95	10.29	10.00	13.16	3.16	16.32	24.00	-7.68
UNII-7	6585	127	10.85	10.10	13.50	2.69	16.19	24.00	-7.81
UNII-7	6745	159	11.26	11.02	14.15	2.69	16.84	24.00	-7.16
UNII-8	6905	191	11.30	11.00	14.16	2.88	17.04	24.00	-6.96

Table 7-11. MIMO 320MHz BW 802.11be (UNII) Maximum Conducted Output Power – LPI

FCC ID: C3K00002101 IC: 3048A-00002101	MEASUREMENT REPORT (Class II Permissive Change)	Test Dates: 4/15/2026 – 6/24/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
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6GHz WIFI (20MHz 802.11a MIMO)						Directional Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]						
			ANT1	ANT2	MIMO				
UNII-5	5955	1	15.25	15.20	18.24	5.73	23.97	30.00	-6.03
	6175	45	15.11	15.26	18.20	5.73	23.93	30.00	-6.07
	6415	93	15.65	15.09	18.39	5.73	24.12	30.00	-5.88
UNII-6	6435	97	14.80	14.39	17.61	3.16	20.77	30.00	-9.23
	6475	105	14.75	14.26	17.52	3.16	20.68	30.00	-9.32
	6515	113	14.75	14.16	17.48	3.16	20.64	30.00	-9.36
UNII-7	6535	117	17.36	16.50	19.96	2.69	22.65	30.00	-7.35
	6675	145	17.30	16.00	19.71	2.69	22.40	30.00	-7.60
	6695	149	17.09	16.03	19.60	2.69	22.29	30.00	-7.71

Table 7-12. MIMO 20MHz BW 802.11a (UNII) Maximum Conducted Output Power– SP

6GHz WIFI (20MHz 802.11ax MIMO)						Directional Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]						
			ANT1	ANT2	MIMO				
UNII-5	5955	1	15.26	15.22	18.25	5.73	23.98	30.00	-6.02
	6175	45	15.05	15.26	18.17	5.73	23.90	30.00	-6.10
	6415	93	15.58	15.10	18.36	5.73	24.09	30.00	-5.91
UNII-6	6435	97	14.39	14.00	17.21	3.16	20.37	30.00	-9.63
	6475	105	14.70	14.29	17.51	3.16	20.67	30.00	-9.33
	6515	113	14.69	14.03	17.38	3.16	20.54	30.00	-9.46
UNII-7	6535	117	17.36	16.55	19.98	2.69	22.67	30.00	-7.33
	6675	145	17.10	16.23	19.70	2.69	22.39	30.00	-7.61
	6695	149	17.20	16.00	19.65	2.69	22.34	30.00	-7.66

Table 7-13. MIMO 20MHz BW 802.11ax (UNII) Maximum Conducted Output Power– SP

6GHz WIFI (20MHz 802.11be MIMO)						Directional Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]						
			ANT1	ANT2	MIMO				
UNII-5	5955	1	15.26	15.26	18.27	5.73	24.00	30.00	-6.00
	6175	45	15.10	15.30	18.21	5.73	23.94	30.00	-6.06
	6415	93	15.58	15.09	18.35	5.73	24.08	30.00	-5.92
UNII-6	6435	97	14.29	14.00	17.16	3.16	20.32	30.00	-9.68
	6475	105	14.76	14.22	17.51	3.16	20.67	30.00	-9.33
	6515	113	14.69	14.25	17.49	3.16	20.65	30.00	-9.35
UNII-7	6535	117	17.32	16.50	19.94	2.69	22.63	30.00	-7.37
	6675	145	17.13	16.00	19.61	2.69	22.30	30.00	-7.70
	6695	149	17.32	16.10	19.76	2.69	22.45	30.00	-7.55

Table 7-14. MIMO 20MHz BW 802.11be (UNII) Maximum Conducted Output Power– SP

FCC ID: C3K00002101 IC: 3048A-00002101	MEASUREMENT REPORT (Class II Permissive Change)	Test Dates: 4/15/2026 – 6/24/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
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6GHz WIFI (40MHz 802.11ax MIMO)						Directional Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]						
			ANT1	ANT2	MIMO				
UNII-5	5965	3	17.13	17.20	20.18	5.73	25.91	30.00	-4.09
	6165	43	17.06	17.27	20.18	5.73	25.91	30.00	-4.09
	6285	67	17.12	17.00	20.07	5.73	25.80	30.00	-4.20
	6405	91	17.90	17.35	20.64	5.73	26.37	30.00	-3.63
UNII-6	6445	99	17.69	17.23	20.48	3.16	23.64	30.00	-6.36
	6485	107	17.62	17.10	20.38	3.16	23.54	30.00	-6.46
	6525	115	17.60	17.00	20.32	3.16	23.48	30.00	-6.52
UNII-7	6565	123	17.73	17.03	20.40	2.69	23.09	30.00	-6.91
	6685	147	17.90	16.80	20.40	2.69	23.09	30.00	-6.91
	6725	155	17.80	17.00	20.43	2.69	23.12	30.00	-6.88
	6845	179	17.53	17.00	20.28	2.69	22.97	30.00	-7.03

Table 7-15. MIMO 40MHz BW 802.11ax (UNII) Maximum Conducted Output Power– SP

6GHz WIFI (40MHz 802.11be MIMO)						Directional Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]						
			ANT1	ANT2	MIMO				
UNII-5	5965	3	17.20	17.29	20.26	5.73	25.99	30.00	-4.01
	6165	43	17.18	17.25	20.23	5.73	25.96	30.00	-4.04
	6285	67	17.10	17.00	20.06	5.73	25.79	30.00	-4.21
	6405	91	17.90	17.25	20.60	5.73	26.33	30.00	-3.67
UNII-6	6445	99	17.68	17.19	20.45	3.16	23.61	30.00	-6.39
	6485	107	17.68	17.05	20.39	3.16	23.55	30.00	-6.45
	6525	115	17.65	17.00	20.35	3.16	23.51	30.00	-6.49
UNII-7	6565	123	17.85	16.90	20.41	2.69	23.10	30.00	-6.90
	6685	147	17.85	16.89	20.41	2.69	23.10	30.00	-6.90
	6725	155	17.80	17.00	20.43	2.69	23.12	30.00	-6.88
	6845	179	17.55	17.03	20.31	2.69	23.00	30.00	-7.00

Table 7-16. MIMO 40MHz BW 802.11be (UNII) Maximum Conducted Output Power– SP

6GHz WIFI (80MHz 802.11ax MIMO)						Directional Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]						
			ANT1	ANT2	MIMO				
UNII-5	5985	7	15.00	15.06	18.04	5.73	23.77	30.00	-6.23
	6145	39	17.25	17.00	20.14	5.73	25.87	30.00	-4.13
	6305	71	17.45	17.20	20.34	5.73	26.07	30.00	-3.93
	6385	87	17.85	17.26	20.58	5.73	26.31	30.00	-3.69
UNII-6	6465	103	17.56	17.02	20.31	3.16	23.47	30.00	-6.53
UNII-7	6545	119	17.63	16.85	20.27	3.16	23.43	30.00	-6.57
	6705	151	18.60	17.55	21.12	2.69	23.81	30.00	-6.19
	6785	167	18.65	18.00	21.35	2.69	24.04	30.00	-5.96
	6865	183	18.88	18.25	21.59	2.88	24.47	30.00	-5.53

Table 7-17. MIMO 80MHz BW 802.11ax (UNII) Maximum Conducted Output Power –SP

6GHz WIFI (80MHz 802.11be MIMO)						Directional Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]						
			ANT1	ANT2	MIMO				
UNII-5	5985	7	15.02	15.00	18.02	5.73	23.75	30.00	-6.25
	6145	39	17.29	17.00	20.16	5.73	25.89	30.00	-4.11
	6305	71	17.45	17.13	20.30	5.73	26.03	30.00	-3.97
	6385	87	17.86	17.18	20.54	5.73	26.27	30.00	-3.73
UNII-6	6465	103	17.56	17.02	20.31	3.16	23.47	30.00	-6.53
UNII-7	6545	119	17.60	16.70	20.18	3.16	23.34	30.00	-6.66
	6705	151	18.63	17.80	21.25	2.69	23.94	30.00	-6.06
	6785	167	18.70	18.00	21.37	2.69	24.06	30.00	-5.94
	6865	183	18.85	18.26	21.58	2.88	24.46	30.00	-5.54

Table 7-18. MIMO 80MHz BW 802.11be (UNII) Maximum Conducted Output Power –SP

FCC ID: C3K00002101 IC: 3048A-00002101		MEASUREMENT REPORT (Class II Permissive Change)		Test Dates: 4/15/2026 – 6/24/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
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6GHz WIFI (160MHz 802.11ax MIMO)						Directional Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]						
			ANT1	ANT2	MIMO				
UNII-5	6025	15	15.12	15.32	18.23	5.73	23.96	30.00	-6.04
	6185	47	15.79	15.69	18.75	5.73	24.48	30.00	-5.52
	6345	79	17.65	17.40	20.54	5.73	26.27	30.00	-3.73
UNII-6	6505	111	17.75	17.00	20.40	3.16	23.56	30.00	-6.44
UNII-7	6665	143	18.69	17.50	21.15	2.69	23.84	30.00	-6.16
	6825	175	18.50	17.80	21.17	2.88	24.05	30.00	-5.95

Table 7-19. MIMO 160MHz BW 802.11ax (UNII) Maximum Conducted Output Power –SP

6GHz WIFI (160MHz 802.11be MIMO)						Directional Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]						
			ANT1	ANT2	MIMO				
UNII-5	6025	15	15.06	15.26	18.17	5.73	23.90	30.00	-6.10
	6185	47	15.60	15.73	18.68	5.73	24.41	30.00	-5.59
	6345	79	17.75	17.23	20.51	5.73	26.24	30.00	-3.76
UNII-6	6505	111	17.75	17.00	20.40	3.16	23.56	30.00	-6.44
UNII-7	6665	143	18.63	17.60	21.16	2.69	23.85	30.00	-6.15
	6825	175	17.93	17.30	20.64	2.88	23.52	30.00	-6.48

Table 7-20. MIMO 160MHz BW 802.11be (UNII) Maximum Conducted Output Power –SP

6GHz WIFI (320MHz 802.11be MIMO)						Directional Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]						
			ANT1	ANT2	MIMO				
UNII-5	6105	31	17.07	17.10	20.10	5.73	25.83	30.00	-4.17
UNII-5	6265	63	18.26	18.20	21.24	5.73	26.97	30.00	-3.03
UNII-6	6425	95	17.42	17.00	20.23	3.16	23.39	30.00	-6.61
UNII-7	6585	127	16.90	16.06	19.51	2.69	22.20	30.00	-7.80
UNII-7	6745	159	16.30	15.69	19.02	2.69	21.71	30.00	-8.29

Table 7-21. MIMO 320MHz BW 802.11be (UNII) Maximum Conducted Output Power –SP

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7.3 Emission Measurements

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 its maximum duty cycle, at its maximum power control level, as defined in ANSI C63.10:2020, and at the appropriate frequencies. All channels, modes (e.g. 802.11a, 802.11ax (20/40/80/160/320MHz), and modulations/data rates were investigated among all UNII bands. Only the radiated emissions of the configuration that produced the worst-case emissions are reported in this section.

For transmitters operating in the 5.925-7.125 GHz band: All emissions outside of the 5.925-7.125 GHz band shall not exceed an EIRP of -27dBm/MHz (68.2dBuV/m at a 3m distance). Emissions found in a restricted band are subject to the limits of 15.209 as shown in the table below.

Frequency	Field Strength [μ V/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 7-22. Radiated Limits

Test Procedures Used

ANSI C63.10:2020– Sections 12.7.7.2, 12.7.6, 12.7.5

Test Settings – Above 1GHz

Average Field Strength Measurements (Method AD – Average Detection)

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest.
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = power average (RMS)
5. Number of measurement points = 1001 (Number of points must be $\geq 2 \times \text{span} \backslash \text{RBW}$)
6. Sweep time = auto
7. Trace (RMS) averaging was performed over at least 100 traces.

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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 = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize.

Test Settings – Below 1GHz

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.

Test Setup

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

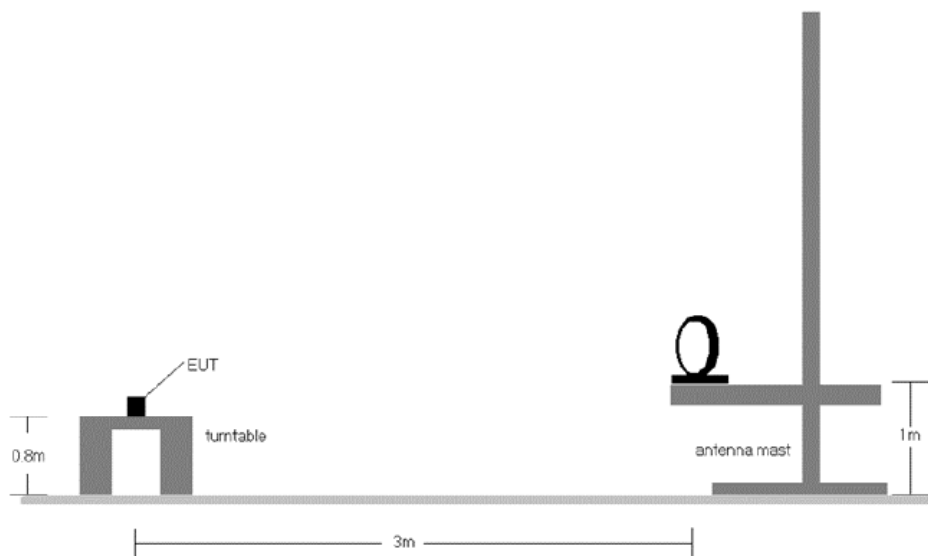


Figure 7-2. Radiated Test Setup < 30MHz

FCC ID: C3K00002101 IC: 3048A-00002101	MEASUREMENT REPORT (Class II Permissive Change)	Test Dates: 4/15/2026 – 6/24/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
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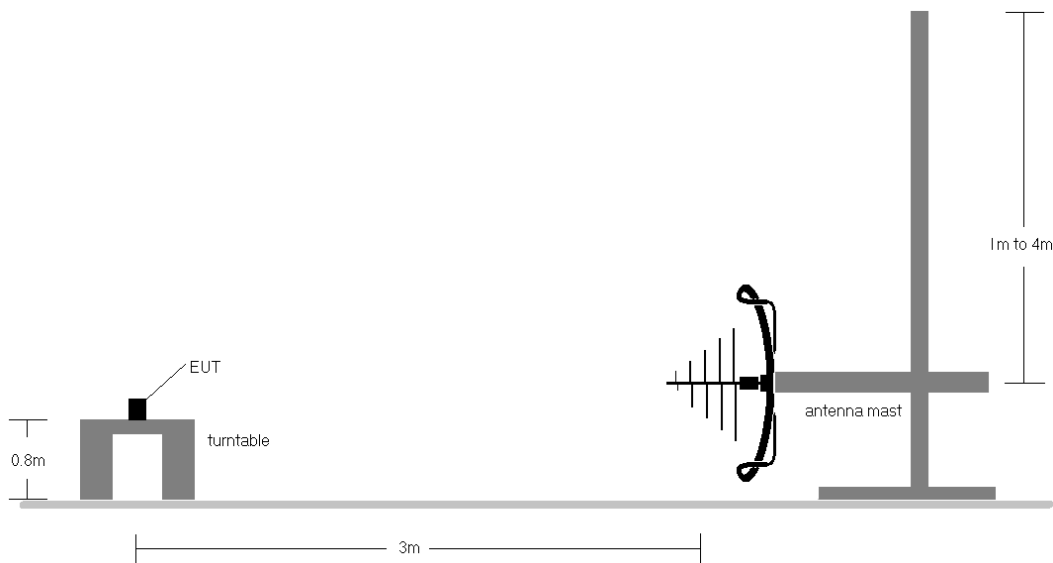


Figure 7-3. Radiated Test Setup < 1GHz

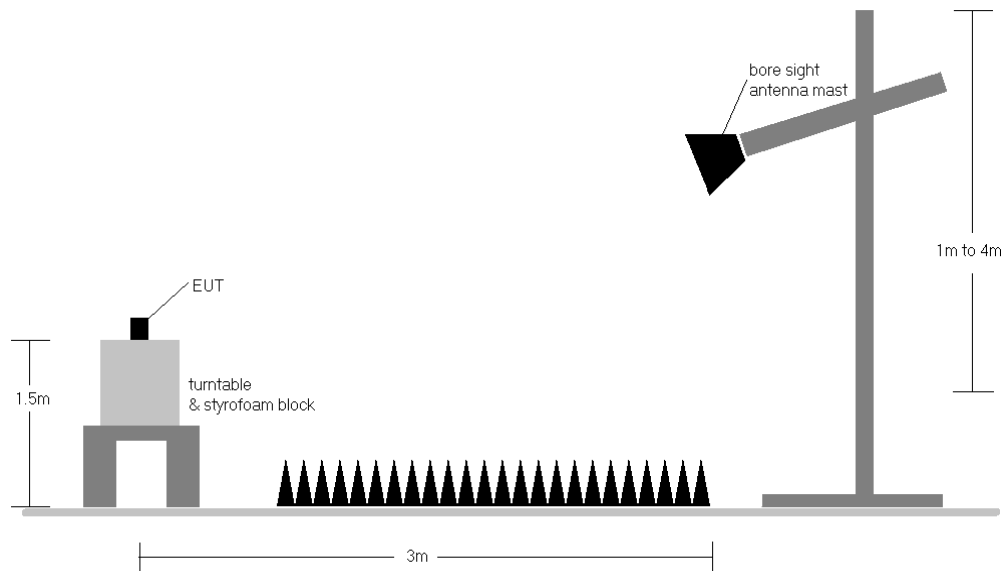


Figure 7-4. Radiated Test Setup > 1GHz



Figure 7-5. Conducted Test Setup for Band Edge > 1GHz

FCC ID: C3K00002101 IC: 3048A-00002101	MEASUREMENT REPORT (Class II Permissive Change)	Test Dates: 4/15/2026 – 6/24/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
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Test Notes

1. All spurious emissions lying in restricted bands specified in §15.205 are below the limits specified in §15.209. All spurious emissions that do not lie in a restricted band are subject to an average limit of -27dBm/MHz. At 3 meters, the field strength limit in dB μ V/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions of 68.2dB μ V/m.
2. All spurious emissions that do not lie in a restricted band are subject to a peak limit not to exceed 20dB of the average limit [68.2dB μ V/m]. If a peak measurement passes the average limit, it was determined no further investigation is necessary.
3. The antenna is manipulated through typical positions, polarity, and length during the tests. The EUT is manipulated through three orthogonal planes.
4. 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.
5. 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.
6. 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. The "-" shown in the following RSE tables are used to denote a noise floor measurement.
7. In the case where a peak-detector measurement passed the given RMS limit it was determined sufficient to demonstrate compliance.
8. The results recorded using the broadband antenna are known to correlate with the results obtained by using a tuned dipole with an acceptable degree of accuracy. The VSWR for the measurement antenna was found to be less than 2:1.
9. 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.
10. Radiated Band Edge test cases were determined based on the original filing for the module, and by the manufacturer provided document Host Test Plan for Limited Module.

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Sample Calculations

Determining Spurious Emissions Levels

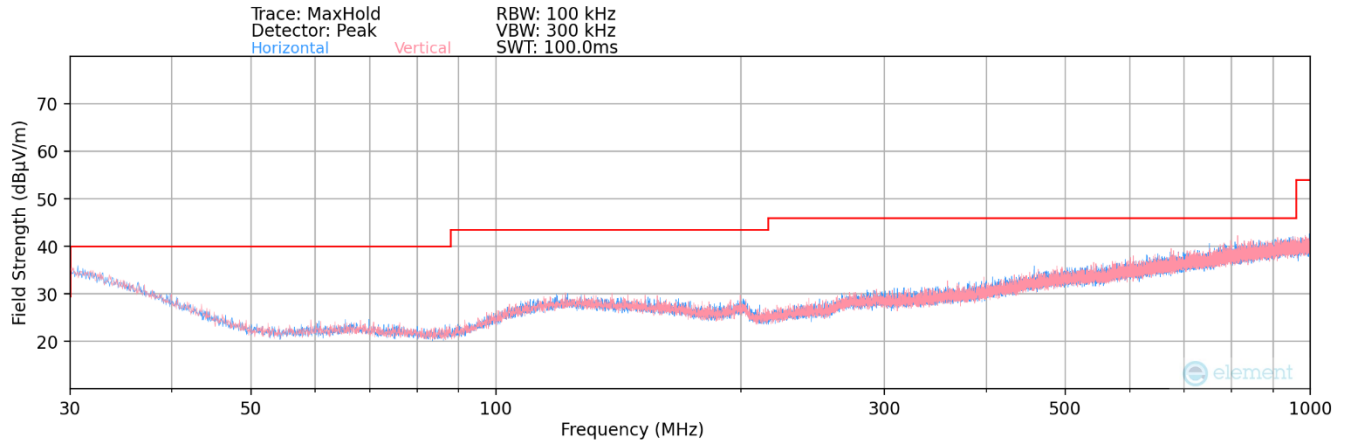
- Field Strength Level $_{\text{[dB}\mu\text{V/m]}} = \text{Analyzer Level}_{\text{[dBm]}} + 107 + \text{AFCL}_{\text{[dB/m]}}$
- $\text{AFCL}_{\text{[dB/m]}} = \text{Antenna Factor}_{\text{[dB/m]}} + \text{Cable Loss}_{\text{[dB]}}$
- $\text{Margin}_{\text{[dB]}} = \text{Field Strength Level}_{\text{[dB}\mu\text{V/m]}}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

Conducted Band Edge Field Strength Conversion

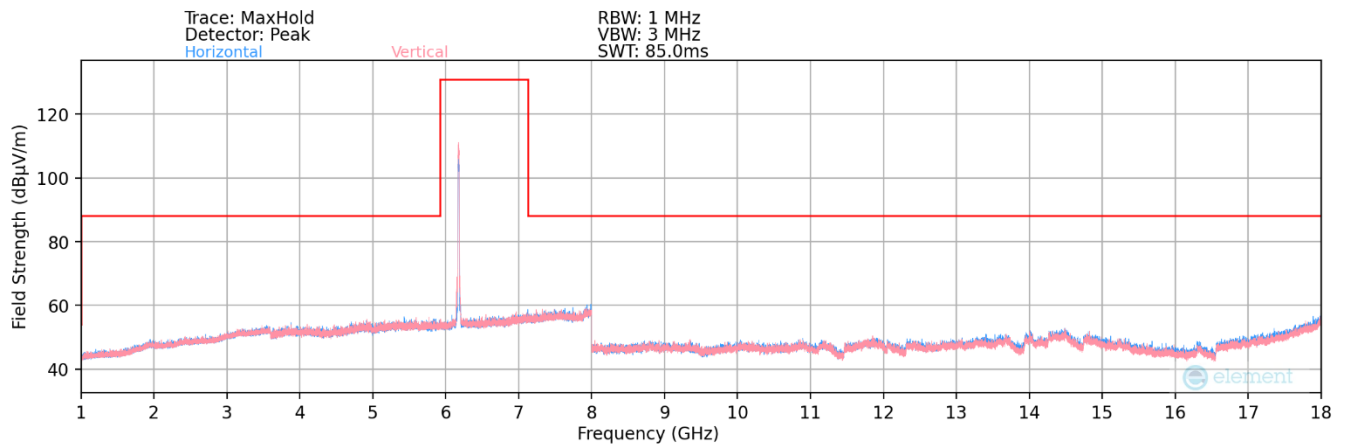
- $\text{Field Strength Level}_{\text{[dB}\mu\text{V/m]}} = \text{EIRP}_{\text{[dBm]}} + 95.2$
 $= \text{Conducted Emission}_{\text{[dBm]}} + \text{Directional Gain}_{\text{[dBi]}} + 95.2$

FCC ID: C3K00002101 IC: 3048A-00002101	MEASUREMENT REPORT (Class II Permissive Change)	Test Dates: 4/15/2026 – 6/24/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
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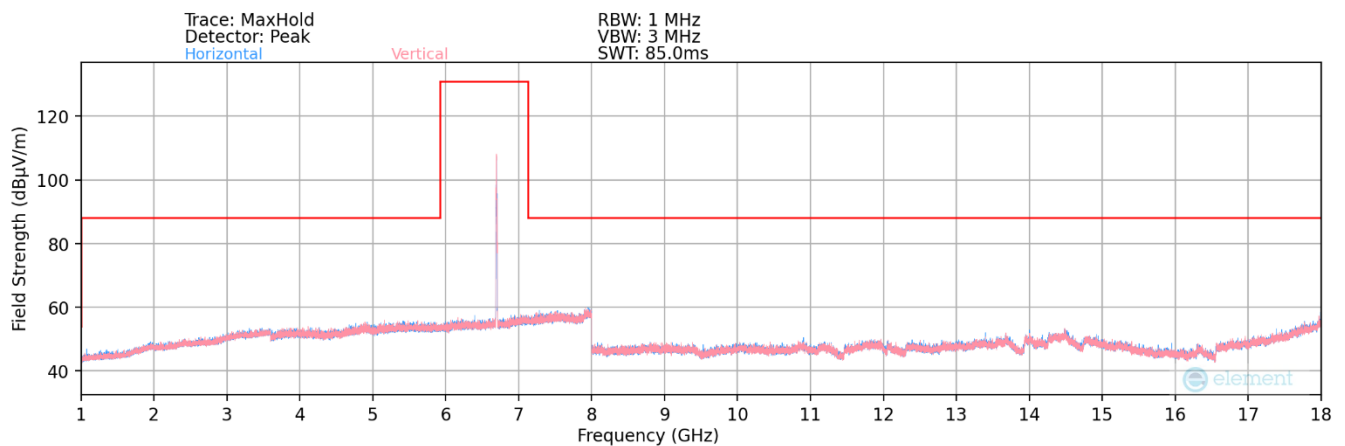
7.3.1 MIMO Radiated Spurious Emission Measurements



Plot 7-1. Radiated Spurious Plot below 1GHz MIMO (802.11be – Ch.49)

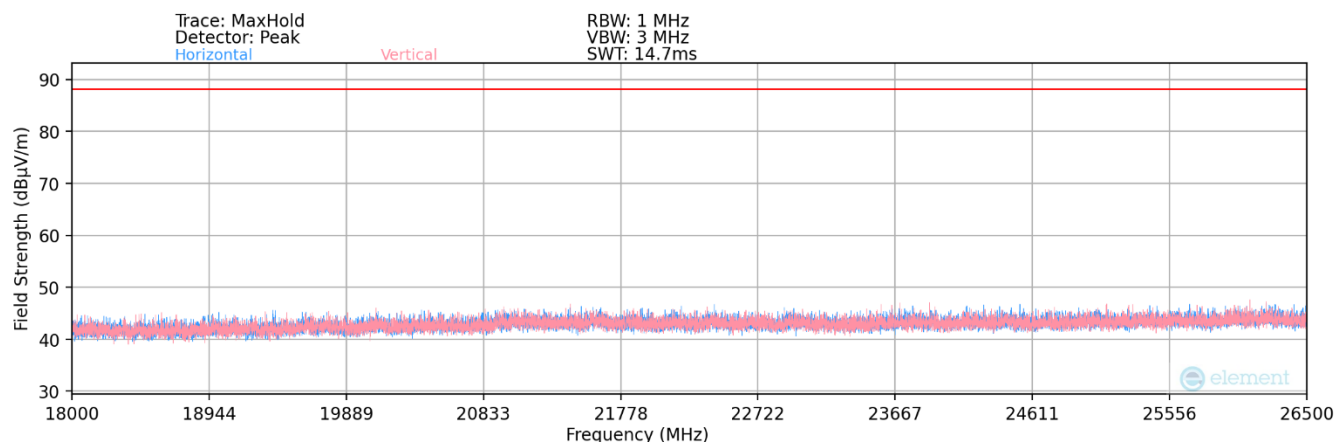


Plot 7-2. Radiated Spurious Plot 1GHz – 18GHz MIMO (802.11be – UNII Band 5 Ch. 49 52T)

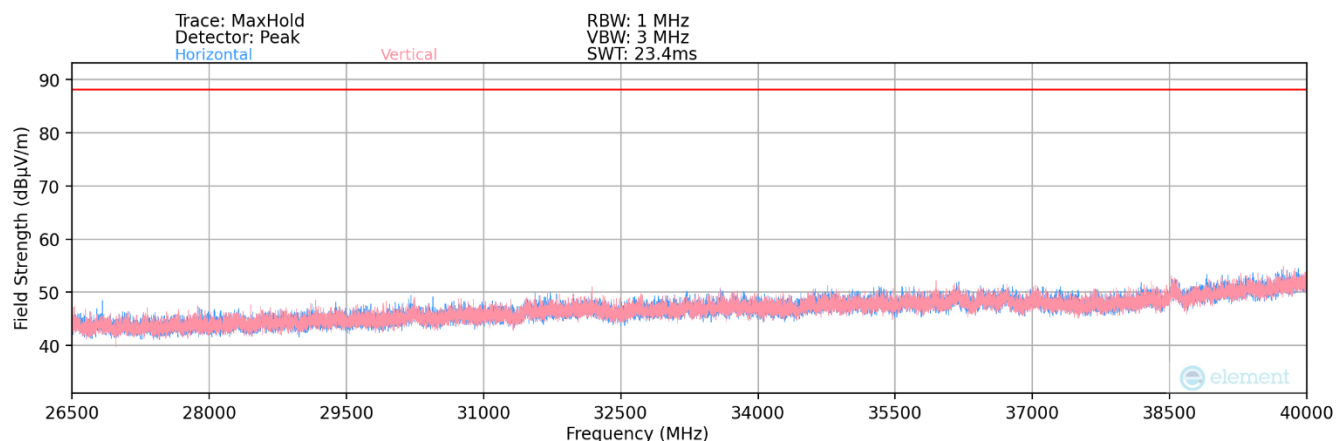


Plot 7-3. Radiated Spurious Plot 1GHz – 18GHz MIMO (802.11be – UNII Band 7 Ch. 149 52T)

FCC ID: C3K00002101 IC: 3048A-00002101	MEASUREMENT REPORT (Class II Permissive Change)	Test Dates: 4/15/2026 – 6/24/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
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Plot 7-4. Radiated Spurious Plot 18GHz - 26.5GHz (802.11be (20MHz 52T) Ch.149)



Plot 7-5. Radiated Spurious Plot 26.5GHz - 40GHz (802.11be(20MHz 52T) Ch.149)

FCC ID: C3K00002101 IC: 3048A-00002101	MEASUREMENT REPORT (Class II Permissive Change)	Test Dates: 4/15/2026 – 6/24/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
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MIMO Radiated Spurious Emission Measurements – UNII Band 5

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 6175MHz
 Channel: 45

Mode	Antenna	UNII Band	Channel	Test Channel Freq. [MHz]	Restricted	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
802.11a	MIMO	5	45	6175	*	12350.00	Average	V	-	-	-78.14	9.44	0.00	38.30	53.98	-15.68
					*	12350.00	Peak	V	-	-	-65.72	9.44	0.00	50.72	73.98	-23.26
					*	18525.00	Average	V	-	-	-60.99	1.22	-9.54	37.69	53.98	-16.29
					*	18525.00	Peak	V	-	-	-49.63	1.22	-9.54	49.05	73.98	-24.93
						24700.00	Peak	V	-	-	-50.79	3.70	-9.54	50.37	68.20	-17.83
						30875.00	Peak	V	-	-	-51.67	6.39	-9.54	52.18	68.20	-16.02

Table 7-23. Radiated Measurements MIMO – 802.11a

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]
48.95	Quasi-Peak	V	-	-	-91.69	15.01	30.32	40.00	-9.68

Table 7-24. Radiated Measurements MIMO below 1GHz – 802.11a

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 6105MHz
 Channel: 31
 RU: 4

Mode	Antenna	UNII Band	Channel	Test Channel Freq. [MHz]	RU Index	Restricted	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
802.11ax	MIMO	5	45	6175	4	*	12350.00	Average	V	-	-	-78.61	9.38	0.00	37.77	53.98	-16.21
						*	12350.00	Peak	V	-	-	-66.29	9.38	0.00	50.09	73.98	-23.89
						*	18525.00	Average	V	-	-	-61.38	1.22	-9.54	37.30	53.98	-16.68
						*	18525.00	Peak	V	-	-	-50.38	1.22	-9.54	48.30	73.98	-25.68
							24700.00	Peak	V	-	-	-50.99	3.70	-9.54	50.17	68.20	-18.03
							30875.00	Peak	V	-	-	-51.84	6.39	-9.54	52.01	68.20	-16.19

Table 7-25. Radiated Measurements MIMO – 802.11be 26T

FCC ID: C3K00002101 IC: 3048A-00002101	MEASUREMENT REPORT (Class II Permissive Change)	Test Dates: 4/15/2026 – 6/24/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
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Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 6695MHz
 Channel: 149

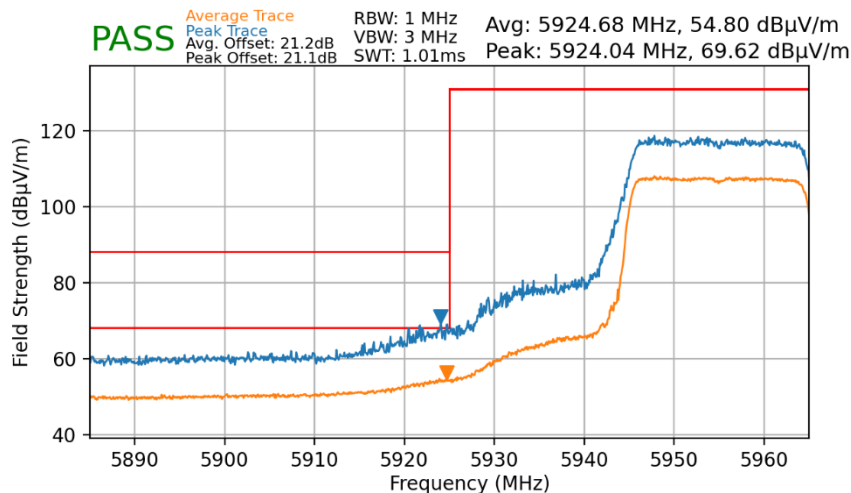
Mode	Antenna	UNII Band	Channel	Test Channel Freq. [MHz]	Restricted	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
802.11a	MIMO	7	149	6695	*	13390.00	Average	V	-	-	-78.27	14.26	0.00	42.99	53.98	-10.99
					*	13390.00	Peak	V	-	-	-65.59	14.26	0.00	55.67	73.98	-18.31
					*	20085.00	Average	V	-	-	-61.75	2.60	-9.54	38.31	53.98	-15.67
					*	20085.00	Peak	V	-	-	-50.82	2.60	-9.54	49.24	73.98	-24.74
						26780.00	Peak	V	-	-	-51.07	4.13	-9.54	50.52	68.20	-17.68
						33475.00	Peak	V	-	-	-51.59	7.38	-9.54	53.25	68.20	-14.95

Table 7-26. Radiated Measurements MIMO – 802.11a

FCC ID: C3K00002101 IC: 3048A-00002101	MEASUREMENT REPORT (Class II Permissive Change)	Test Dates: 4/15/2026 – 6/24/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
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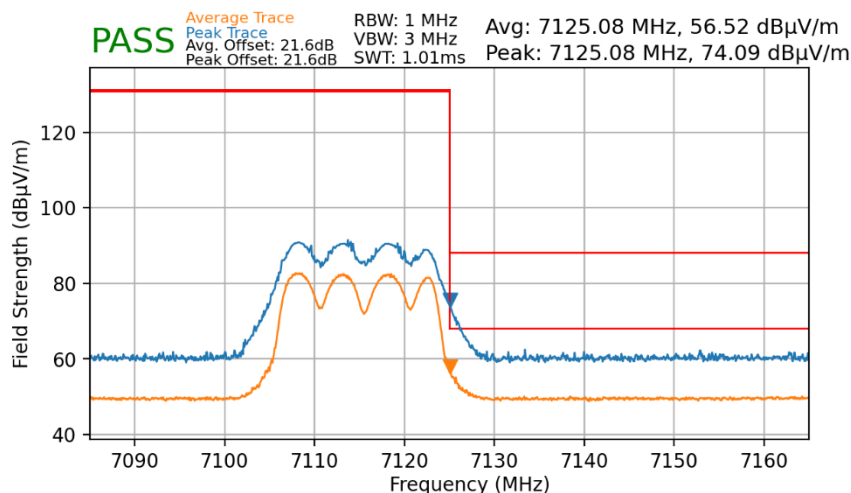
7.3.2 MIMO Band Edge Measurements (20MHz BW)

Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5955MHz
Channel:	1



Plot 7-6. Lower Band Edge Plot MIMO (UNII Band 5)

Worst Case Mode:	802.11a
Worst Case Transfer Rate:	6Mbps
Distance of Measurements:	3 Meters
Operating Frequency:	7115MHz
Channel:	233

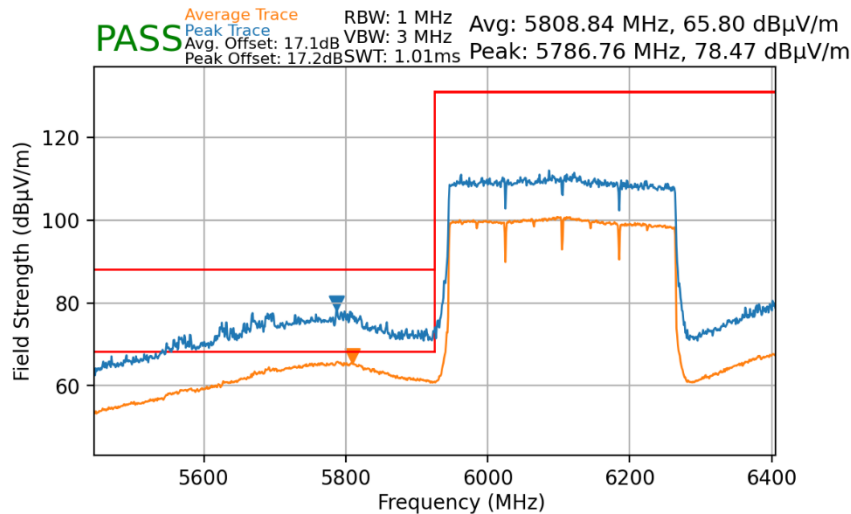


Plot 7-7. Upper Band Edge Plot MIMO (UNII Band 8)

FCC ID: C3K00002101 IC: 3048A-00002101	MEASUREMENT REPORT (Class II Permissive Change)	Test Dates: 4/15/2026 – 6/24/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
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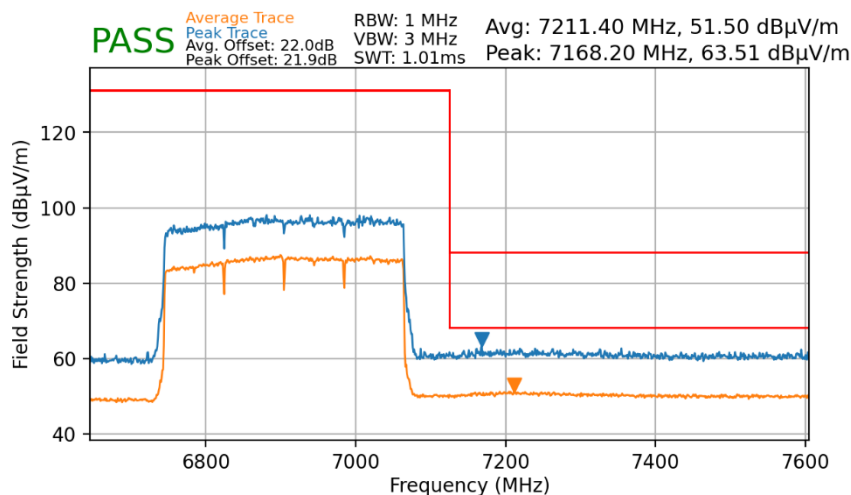
7.3.3 MIMO Band Edge Measurements (320MHz BW)

Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	6105MHz
Channel:	31



Plot 7-8. Lower Band Edge Plot MIMO (UNII Band 5)

Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	6905MHz
Channel:	191



Plot 7-9. Upper Band Edge Plot MIMO (UNII Band 5)

FCC ID: C3K00002101 IC: 3048A-00002101	MEASUREMENT REPORT (Class II Permissive Change)	Test Dates: 4/15/2026 – 6/24/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
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7.4 Line Conducted Test Data

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.

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

Table 7-27. 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.

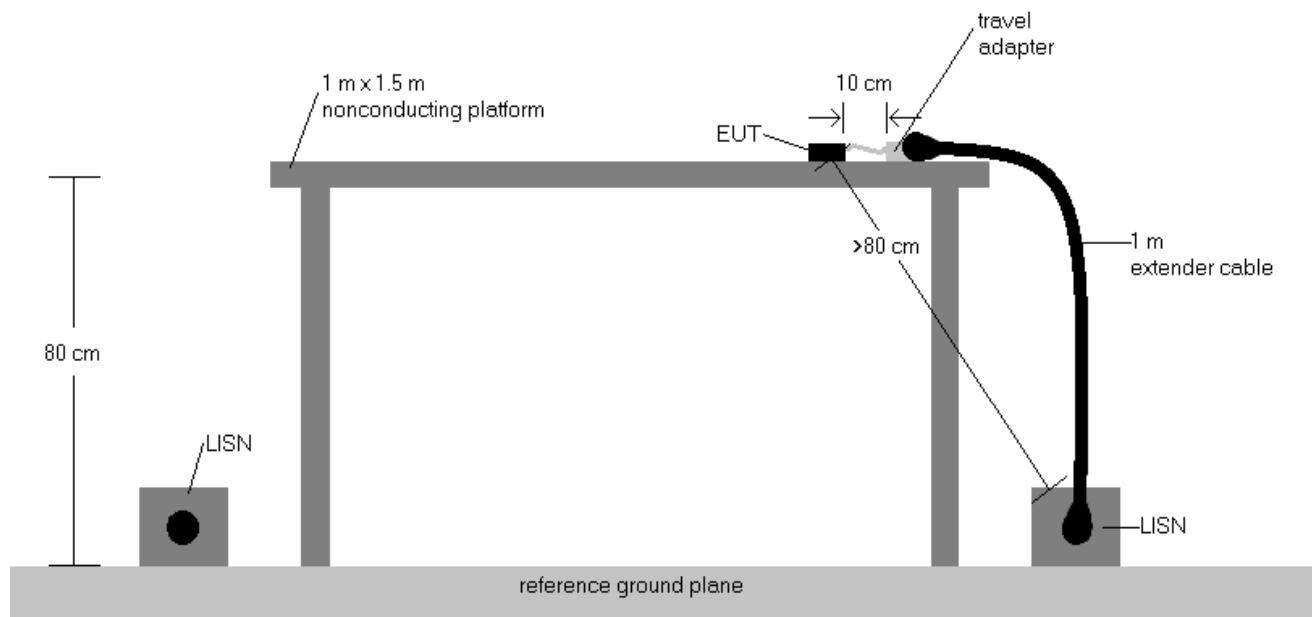
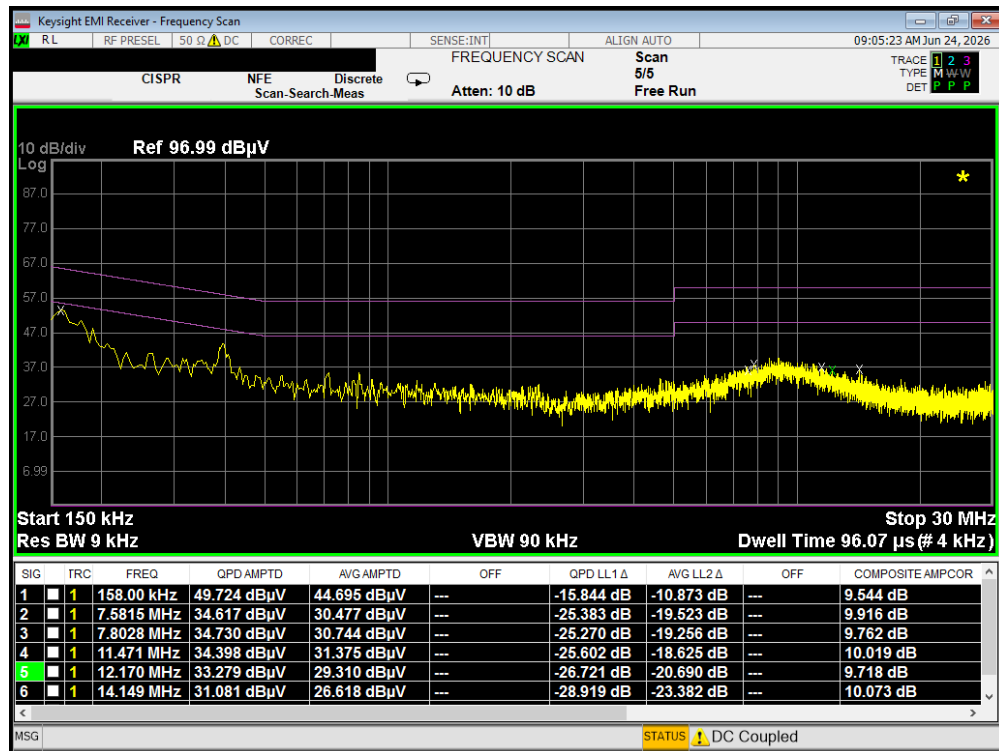


Figure 7-6. Test Instrument & Measurement Setup

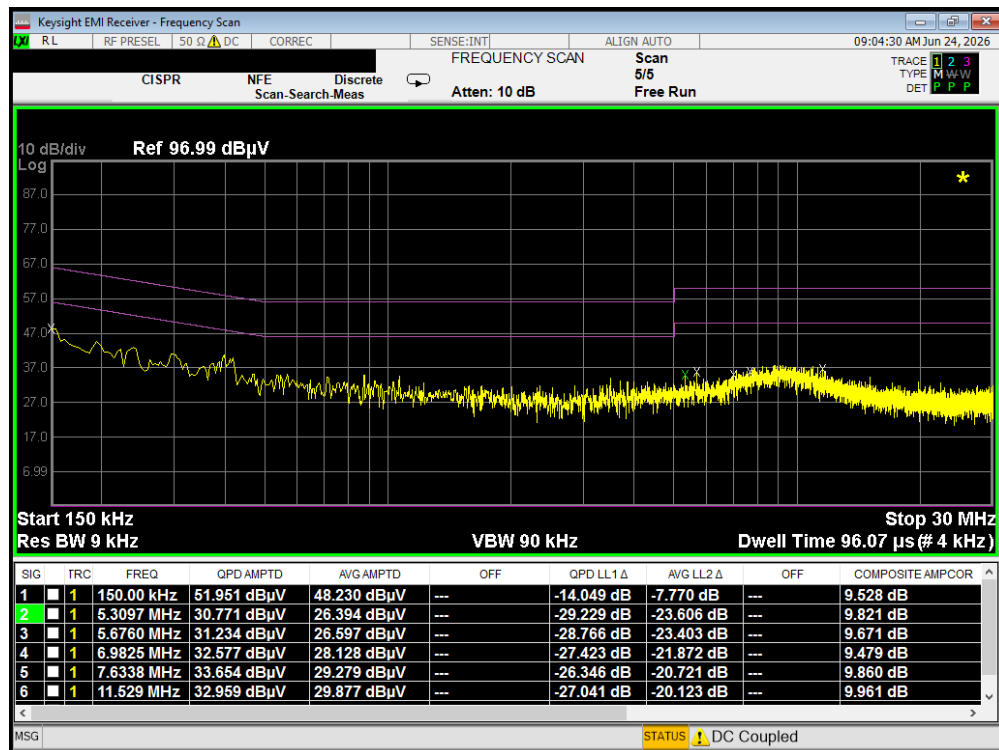
Test Notes

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 is specified in 15.207.
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: 3048A-00002101	MEASUREMENT REPORT (Class II Permissive Change)	Test Dates: 4/15/2026 – 6/24/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
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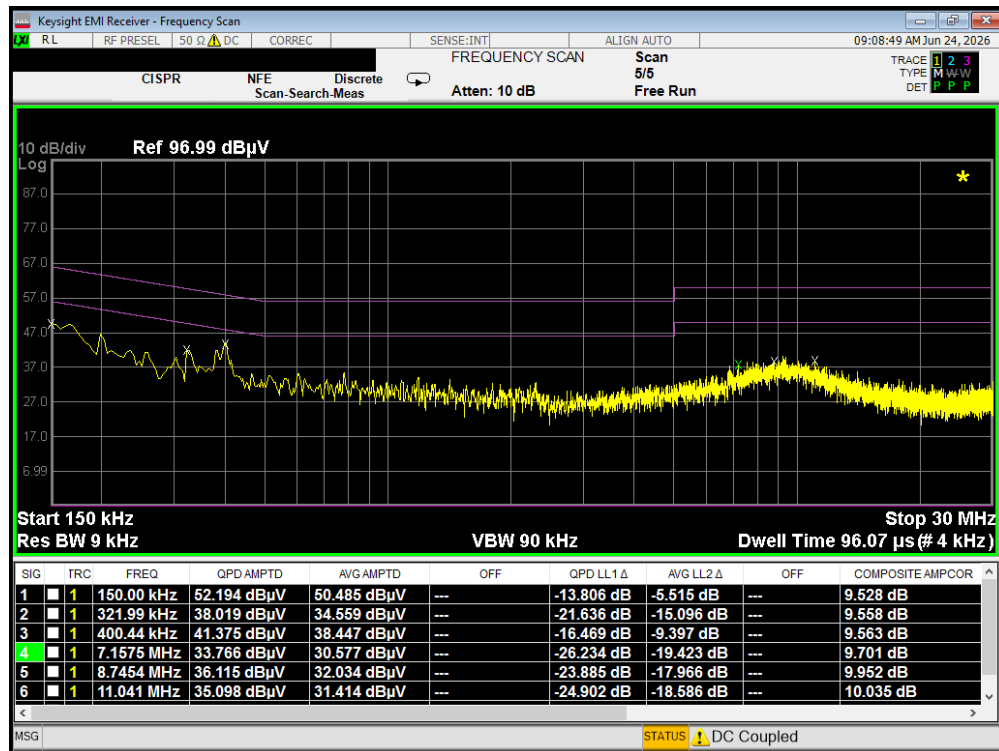


Plot 7-10. Line Conducted Plot with 802.11a UNII Band 5 – Ch.45 (L1)

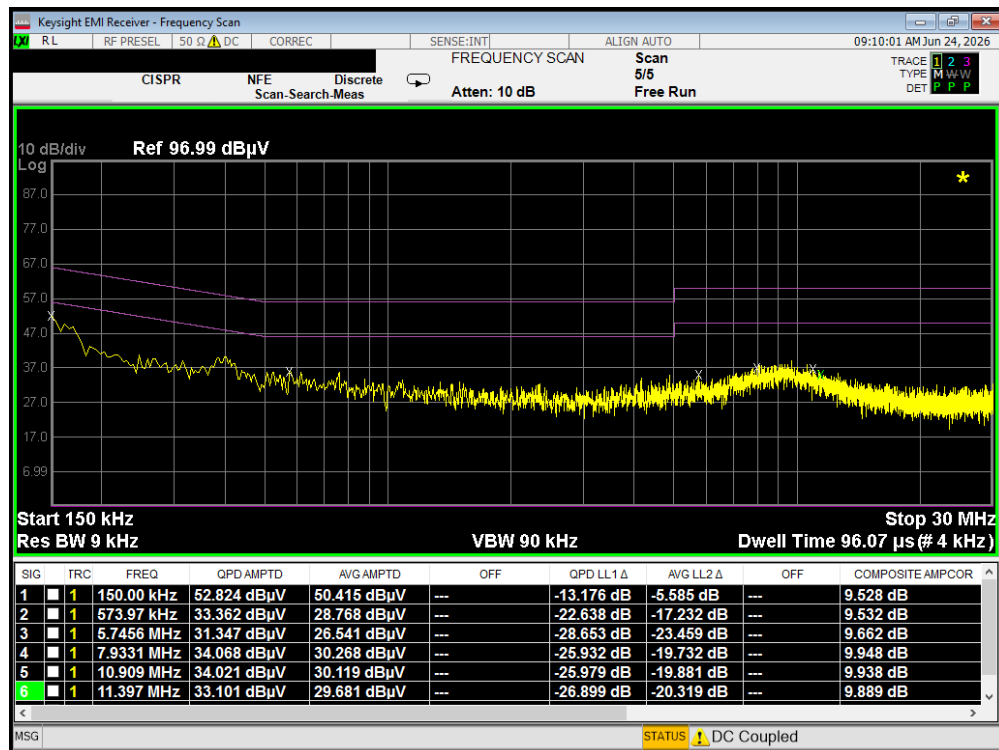


Plot 7-11. Line Conducted Plot with 802.11a UNII Band 5 – Ch.45 (N)

FCC ID: C3K00002101 IC: 3048A-00002101	MEASUREMENT REPORT (Class II Permissive Change)	Test Dates: 4/15/2026 – 6/24/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
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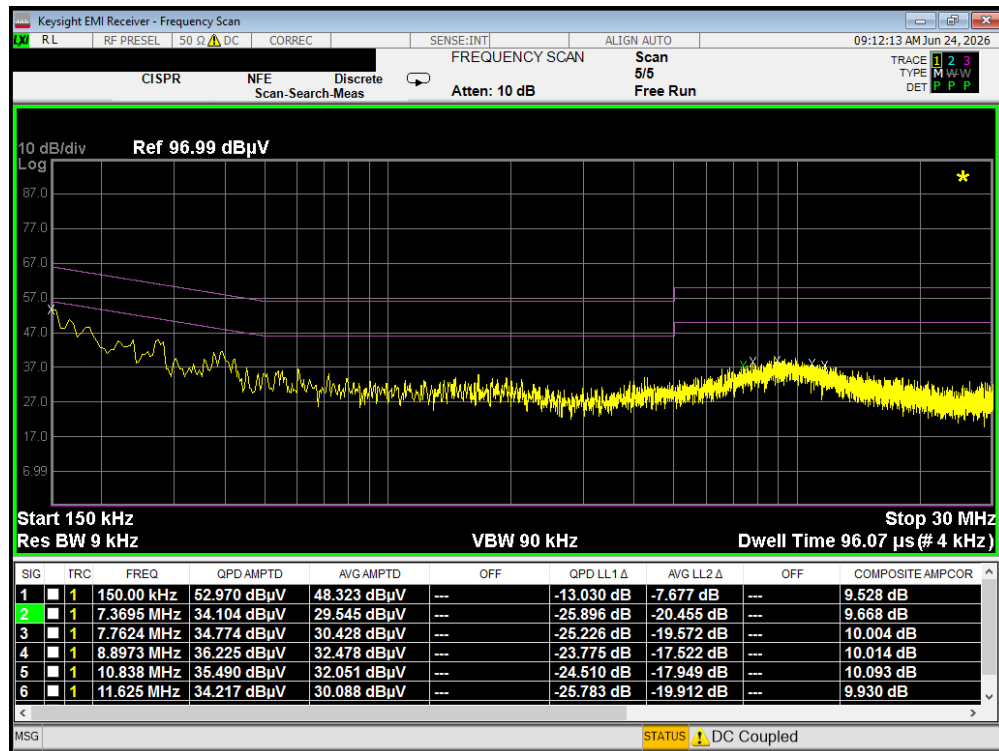


Plot 7-12. Line Conducted Plot with 802.11a UNII Band 6 – Ch.105 (L1)

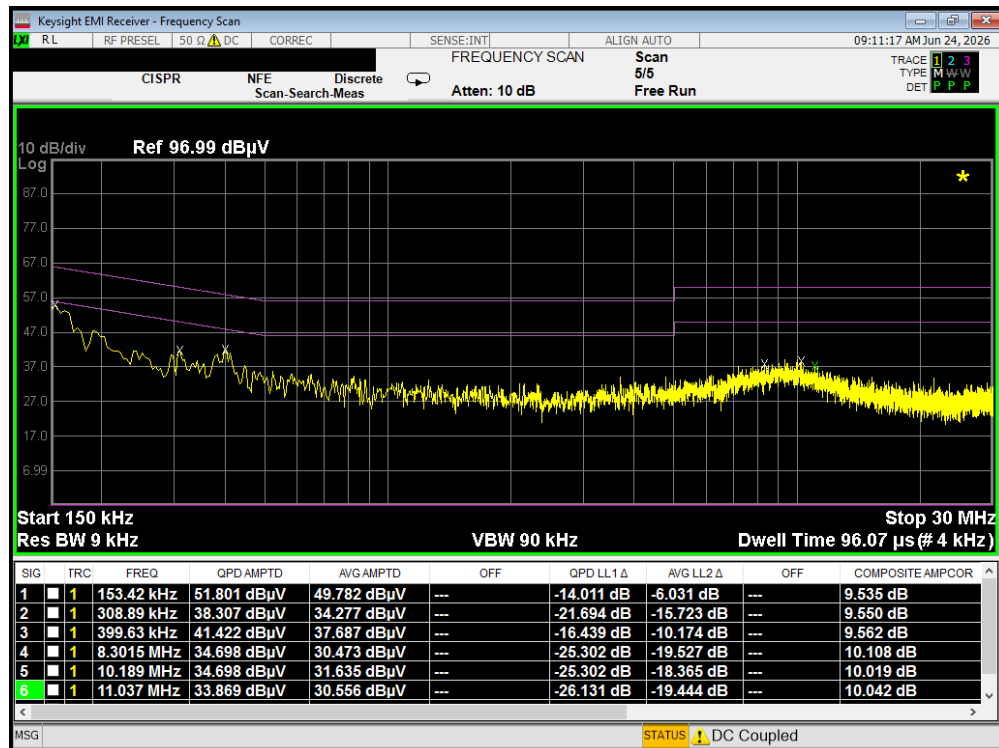


Plot 7-13. Line Conducted Plot with 802.11a UNII Band 6 – Ch.105 (N)

FCC ID: C3K00002101 IC: 3048A-00002101	MEASUREMENT REPORT (Class II Permissive Change)	Test Dates: 4/15/2026 – 6/24/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
Test Report S/N: 1M2603250028-11.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 42

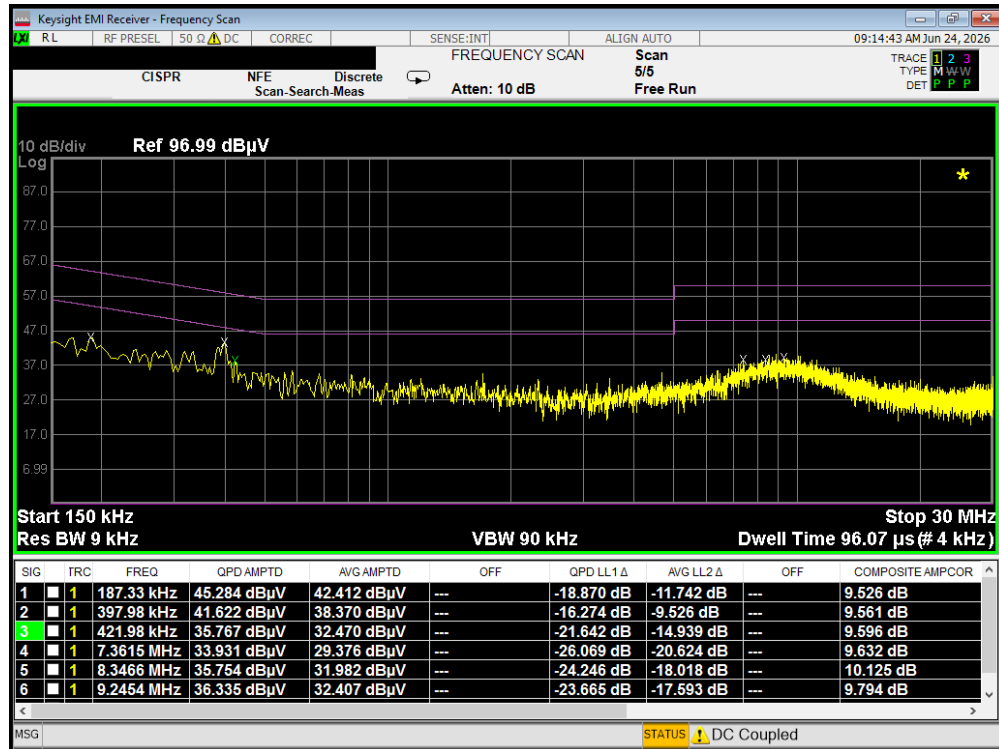


Plot 7-14. Line Conducted Plot with 802.11a UNII Band 7 – Ch.149 (L1)

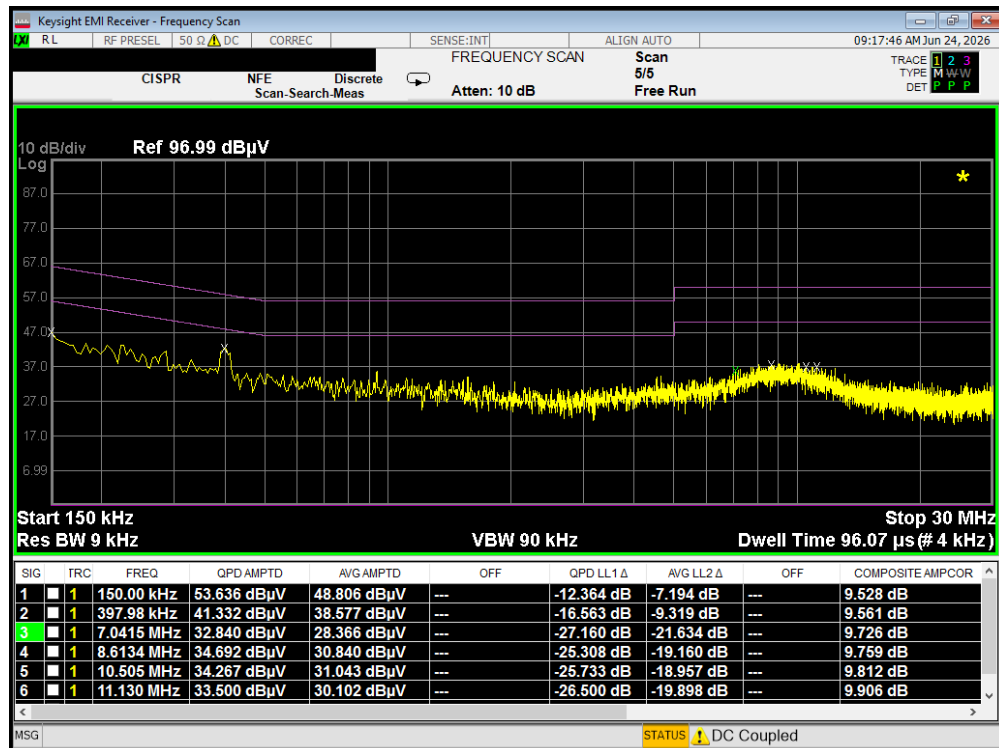


Plot 7-15. Line Conducted Plot with 802.11a UNII Band 7 – Ch.149 (N)

FCC ID: C3K00002101 IC: 3048A-00002101	MEASUREMENT REPORT (Class II Permissive Change)	Test Dates: 4/15/2026 – 6/24/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
Test Report S/N: 1M2603250028-11.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 42



Plot 7-16. Line Conducted Plot with 802.11a UNII Band 8 – Ch.209 (L1)



Plot 7-17. Line Conducted Plot with 802.11a UNII Band 8 – Ch.209 (N)

FCC ID: C3K00002101 IC: 3048A-00002101	MEASUREMENT REPORT (Class II Permissive Change)	Test Dates: 4/15/2026 – 6/24/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
Test Report S/N: 1M2603250028-11.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 42

8.0 CONCLUSION

The data collected relate only the item(s) tested and show that the **Microsoft Module FCC: C3K00002101** is in compliance with the relevant FCC and ISED rules for module integration into the host portable computing device (Model: 2150).

FCC ID: C3K00002101 IC: 3048A-00002101	MEASUREMENT REPORT (Class II Permissive Change)	Test Dates: 4/15/2026 – 6/24/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
Test Report S/N: 1M2603250028-11.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 42