

MEASUREMENT REPORT
FCC PART 15.247 802.11b/g/n/ax/be**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.:

1M2603250028-09.C3K

FCC ID:

C3K00002101

IC:

3048A-00002101

APPLICANT:

Microsoft Corporation

FCC Application Type:

Class II Permissive Change, Module Host Integration

ISED Application Type:

Class IV Permissive Change, Module Host Integration

Host Model:

2150

HVIN:

HWB-Q94

EUT Type:

Limited Modular Approval - Host Integration Computing Device

Frequency Range:

2412 – 2472MHz

Modulation Type:

CCK, DSSS, OFDM, OFDMA

FCC Classification:

Digital Transmission System (DTS)

ISED Specification:

RSS-247 Issue 4

FCC/ISED Test Procedure(s):

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

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	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	6/26/2026	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 **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 additional requirements for DTS operation.

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.: 0F7CR4R26093WK, 0F33VWM26183WK, 0F7BTB826093WK

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

Ch.	Frequency (MHz)	Ch.	Frequency (MHz)
1	2412	8	2447
2	2417	9	2452
3	2422	10	2457
4	2427	11	2462
5	2432	12	2467
6	2437	13	2472
7	2442		

Table 2-1. Frequency / Channel Operations

Notes:

1. The maximum achievable duty cycles for all modes were determined based on measurements performed on a spectrum analyzer in zero-span mode with RBW = 8MHz, VBW = 50MHz, and detector = peak per the guidance of Section 6.0 b) of ANSI C63.10:2020 and KDB 558074 D01 v05r02. 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 [%]	Radiated DCCF [dB]
2.4GHz	b	97.79	0.10
	g	99.05	N/A
	n (HT20)	99.56	N/A
	ac (VHT20)	99.53	N/A
	ax (HE20)	99.52	N/A
	be (EHT20)	99.59	N/A
	n (HT40)	99.55	N/A
	ac (VHT40)	99.13	N/A
	ax (HE40)	99.40	N/A
	be (EHT40)	99.40	N/A

Table 2-2. Measured Duty Cycles

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

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

Table 2-3. Antenna / Technology Configuration

✓ = Support; ✗ = NOT Support

SISO = Single Input Single Output

SDM = Spatial Diversity Multiplexing – MIMO function

CDD = Cyclic Delay Diversity - 2Tx Function

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

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802.11b	802.11a/g	MCS Index			OFDM (802.11n)		OFDM (802.11ax/be)		
20MHz	20MHz				20MHz		20MHz		
		HT	HE	EHT	0.8μs GI	0.4μs GI	0.8μs GI	1.6μs GI	3.2μs GI
1	6	0	0	0	6.5	7.2	8.6	8.1	7.3
2	9	1	1	1	13	14.4	17.2	16.3	14.6
5.5	12	2	2	2	19.5	21.7	25.8	24.4	21.9
11	18	3	3	3	26	28.9	34.4	32.5	29.3
	24	4	4	4	39	43.3	51.6	48.8	43.9
	36	5	5	5	52	57.8	68.8	65	58.5
	48	6	6	6	58.5	65	77.4	73.1	65.8
	54	7	7	7	65	72.2	86	81.3	73.1
			8	8			103.2	97.5	87.8
			9	9			114.7	108.3	97.5
			10	10			129	121.9	109.7
			11	11			143.4	135.4	121.9
				12			154.9	146.3	131.6
				13			172.1	162.5	146.3
1	6	8	0	0	13	14.4	17.2	16.3	14.6
2	9	9	1	1	26	28.9	34.4	32.5	29.3
5.5	12	10	2	2	39	43.3	51.6	48.8	43.9
11	18	11	3	3	52	57.8	68.8	65	58.5
	24	12	4	4	78	86.7	103.2	97.5	87.8
	36	13	5	5	104	115.6	137.6	130	117
	48	14	6	6	117	130	154.9	146.3	131.6
	54	15	7	7	130	144.4	172.1	162.5	146.3
			8	8	156	173.3	206.5	195	175.5
			9	9	N/A	N/A	229.4	216.7	195
			10	10			258.1	243.8	219.4
			11	11			286.8	270.8	243.8
				12			309.7	292.5	263.3
				13			344.1	325	292.5

Table 2-4. Supported Data Rates

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2.3 Test Configuration

ANSI C63.10:2020 was used to reference the appropriate EUT setup for radiated spurious emissions testing and AC line conducted testing. See Section 7.4 for AC line conducted emissions test setups, 7.2 and 7.3 for radiated emissions test setups.

2.4 Antenna Description

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

Frequency [GHz]	ANT1 Peak Gain [dBi]	ANT2 Peak Gain [dBi]	Measured Correlated Directional Gain [dBi]	Measured Uncorrelated Directional Gain [dBi]
2.4	0.67	0.25	2.93	0.07

Table 2-5. 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. Correlated directional gain is used for MIMO measurements where applicable.

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.

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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) was used in the measurement of the EUT.

Deviation from measurement procedure.....None

3.2 AC Line Conducted Emissions

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

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

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

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

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3.3 Radiated Emissions

The radiated test facilities consisted of an indoor 3 meter semi-anechoic chamber used for final measurements and exploratory measurements, when necessary. The measurement area is contained within the semi-anechoic chamber which is shielded from any ambient interference. The test site inside the chamber is a 6m x 5.2m elliptical, obstruction-free area in accordance with Figure 5.7 of Clause 5 in ANSI C63.4-2014. Absorbers are arranged on the floor between the turn table and the antenna mast in such a way so as to maximize the reduction of reflections for measurements above 1GHz. An 80cm tall test table made of Styrodur is placed on top of the turn table. For measurements above 1GHz, an additional Styrodur pedestal is placed on top of the test table to bring the total table height to 1.5m.

For all measurements, the spectrum was scanned through all EUT azimuths and from 1 to 4 meter receive antenna height using a broadband antenna from 30MHz up to the upper frequency shown in 15.33 depending on the highest frequency generated or used in the device or on which the device operates or tunes. For frequencies above 1GHz, linearly polarized double ridge horn antennas were used. For frequencies below 30MHz, a calibrated loop antenna was used. When exploratory measurements were necessary, they were performed at 1 meter test distance inside the semi-anechoic chamber using broadband antennas, broadband amplifiers, and spectrum analyzers to determine the frequencies and modes producing the maximum emissions. Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The test set-up was placed on top of the 1 x 1.5 meter table. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Appropriate precaution was taken to ensure that all emissions from the EUT were maximized and investigated. The system configuration, mode of operation, turntable azimuth, and receive antenna height was noted for each frequency found.

Final measurements were made in the semi-anechoic chamber using calibrated, linearly polarized broadband and horn antennas. The test setup was configured to the setup that produced the worst case emissions. The spectrum analyzer was set to investigate all frequencies required for testing to compare the highest radiated disturbances with respect to the specified limits. The turntable containing the EUT was rotated through 360 degrees and the height of the receive antenna was varied 1 to 4 meters and stopped at the azimuth and height producing the maximum emission. Each emission was maximized by changing the orientation of the EUT through three orthogonal planes and changing the polarity of the receive antenna, whichever produced the worst-case emissions.

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

3.4 Environmental Conditions

The temperature is controlled within range of 15°C to 35°C. The relative humidity is controlled within range of 10% to 75%. The atmospheric pressure is monitored within the range 86-106kPa (860-1060mbar).

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4.0 ANTENNA REQUIREMENTS

Excerpt from §15.203 of the FCC Rules/Regulations:

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

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

Conclusion:

The EUT unit complies with the requirement of §15.203.

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5.0 MEASUREMENT UNCERTAINTY

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.10:2020. All measurement uncertainty values are shown with a coverage factor of $k = 2$ to indicate a 95% level of confidence. The measurement uncertainty shown below meets or exceeds the U_{CISPR} measurement uncertainty values specified in CISPR 16-4-2 and, thus, can be compared directly to specified limits to determine compliance.

Contribution	Expanded Uncertainty ($\pm$ dB)
Conducted Bench Top Measurements	1.13
Line Conducted Disturbance	3.09
Radiated Disturbance (<1GHz)	4.98
Radiated Disturbance (>1GHz)	5.07
Radiated Disturbance (>18GHz)	5.09

Table 5-1. Measurement Uncertainty Budget

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6.0 TEST EQUIPMENT CALIBRATION DATA

Test Equipment Calibration is traceable to the National Institute of Standards and Technology (NIST). Measurements antennas used during testing were calibrated in accordance to the requirements of ANSI C63.5-2017.

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
-	MD 1M 40	EMC Cable and Switch System	2/3/2026	Annual	2/3/2027	MD 1M 40
-	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
-	ETS-001	EMC Cable and Switch System	1/29/2026	Annual	1/29/2027	ETS-001
-	ETS-002	EMC Cable and Switch System	1/29/2026	Annual	1/29/2027	ETS-002
-	WL25-1	Conducted Cable Set (25GHz)	1/30/2026	Annual	1/30/2027	WL25-1
-	WL25-2	Conducted Cable Set (25GHz)	1/30/2026	Annual	1/30/2027	WL25-2
-	WL40-1	Conducted Cable Set (40GHz)	1/30/2026	Annual	1/30/2027	WL40-1
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
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

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

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

Table 6-8. 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-MNMN+	15440

Table 6-9. ETS-002 EMC Cable and Switch System Components

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

Table 6-10. WL25-1 Conducted Cable Set Components

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

Table 6-11. WL25-2 Conducted Cable Set Components

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

Table 6-12. 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: Digital Transmission System (DTS)

FCC Part Section(s)	RSS Section(s)	Test Description	Test Limit	Test Condition	Test Result	Reference
15.247(b)(3)	RSS-247 [6.3.2]	Transmitter Output Power	shall not exceed 1 W		PASS	Section 7.2
N/A	RSS-247 [6.3.2]	e.i.r.p.	shall not exceed 4 W		PASS	Section 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 / CONDUCTED	PASS	Section 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 and data rates were investigated. 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.

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7.2 Output Power Measurement

Test Overview and Limits

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

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

Test Procedure Used

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

Test Settings

Method PKPM1 (Peak Power Measurement)

Peak power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The pulse sensor employs a VBW = 50MHz so this method was only used for signals whose DTS bandwidth was less than or equal to 50MHz.

Method AVGPM-G (Average Power Measurement)

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

Test Setup

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



Figure 7-1. Test Instrument & Measurement Setup for Power Meter Measurements

Test Notes

None.

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2.4GHz WIFI (20MHz 802.11b MIMO)						Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
Freq [MHz]	Channel	Detector	Conducted Power [dBm]								
			ANT1	ANT2	MIMO						
2412	1	Average	20.69	20.26	23.49	30.00	-6.51	0.07	23.56	36.02	-12.46
2437	6		20.58	20.31	23.46	30.00	-6.54	0.07	23.53	36.02	-12.49
2462	11		20.50	20.27	23.40	30.00	-6.60	0.07	23.47	36.02	-12.55
2467	12		16.36	16.16	19.27	30.00	-10.73	0.07	19.34	36.02	-16.68
2472	13		8.86	8.79	11.84	30.00	-18.16	0.07	11.91	36.02	-24.11
2412	1	Peak	26.72	26.32	29.53	30.00	-0.47	0.07	29.60	36.02	-6.42
2437	6		26.68	26.41	29.56	30.00	-0.44	0.07	29.63	36.02	-6.39
2462	11		26.77	26.40	29.60	30.00	-0.40	0.07	29.67	36.02	-6.35
2467	12		22.66	22.52	25.60	30.00	-4.40	0.07	25.67	36.02	-10.35
2472	13		17.14	17.18	20.17	30.00	-9.83	0.07	20.24	36.02	-15.78

Table 7-2. Table 7-3. Conducted Output Power Measurements MIMO (802.11b)

2.4GHz WIFI (20MHz 802.11g MIMO)						Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
Freq [MHz]	Channel	Detector	Conducted Power [dBm]								
			ANT1	ANT2	MIMO						
2412	1	Average	15.36	15.06	18.22	30.00	-11.78	0.07	18.29	36.02	-17.73
2417	2		17.45	17.16	20.32	30.00	-9.68	0.07	20.39	36.02	-15.63
2422	3		18.59	18.24	21.43	30.00	-8.57	0.07	21.50	36.02	-14.52
2427	4		19.88	19.32	22.62	30.00	-7.38	0.07	22.69	36.02	-13.33
2437	6		19.86	19.50	22.69	30.00	-7.31	0.07	22.76	36.02	-13.26
2457	10		19.80	19.49	22.66	30.00	-7.34	0.07	22.73	36.02	-13.29
2462	11		14.63	14.53	17.59	30.00	-12.41	0.07	17.66	36.02	-18.36
2467	12		12.55	12.41	15.49	30.00	-14.51	0.07	15.56	36.02	-20.46
2472	13		-7.31	-7.91	-4.59	30.00	-34.59	0.07	-4.52	36.02	-40.54
2412	1		21.45	21.48	24.48	30.00	-5.52	0.07	24.55	36.02	-11.47
2417	2	Peak	23.61	23.54	26.59	30.00	-3.41	0.07	26.66	36.02	-9.36
2422	3		24.73	24.62	27.69	30.00	-2.31	0.07	27.76	36.02	-8.26
2427	4		26.76	26.02	29.42	30.00	-0.58	0.07	29.49	36.02	-6.53
2437	6		26.80	26.03	29.44	30.00	-0.56	0.07	29.51	36.02	-6.51
2457	10		26.90	26.11	29.53	30.00	-0.47	0.07	29.60	36.02	-6.42
2462	11		20.79	20.94	23.88	30.00	-6.12	0.07	23.95	36.02	-12.07
2467	12		18.66	18.73	21.71	30.00	-8.29	0.07	21.78	36.02	-14.24
2472	13		-1.10	-1.17	1.88	30.00	-28.12	0.07	1.95	36.02	-34.07

Table 7-4. Table 7-5. Conducted Output Power Measurements MIMO (802.11g)

2.4GHz WIFI (20MHz 802.11n MIMO)						Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
Freq [MHz]	Channel	Detector	Conducted Power [dBm]								
			ANT1	ANT2	MIMO						
2412	1	Average	15.88	15.66	18.78	30.00	-11.22	0.07	18.85	36.02	-17.17
2417	2		18.94	18.65	21.81	30.00	-8.19	0.07	21.88	36.02	-14.14
2437	6		18.71	18.65	21.69	30.00	-8.31	0.07	21.76	36.02	-14.26
2457	10		18.64	18.52	21.59	30.00	-8.41	0.07	21.66	36.02	-14.36
2462	11		13.55	13.60	16.59	30.00	-13.41	0.07	16.66	36.02	-19.36
2467	12		12.01	11.98	15.01	30.00	-14.99	0.07	15.08	36.02	-20.94
2472	13		-9.22	-9.80	-6.49	30.00	-36.49	0.07	-6.42	36.02	-42.44
2412	1	Peak	22.26	22.09	25.19	30.00	-4.81	0.07	25.26	36.02	-10.76
2417	2		25.78	25.22	28.52	30.00	-1.48	0.07	28.59	36.02	-7.43
2437	6		25.46	25.36	28.42	30.00	-1.58	0.07	28.49	36.02	-7.53
2457	10		25.38	25.16	28.28	30.00	-1.72	0.07	28.35	36.02	-7.67
2462	11		20.02	20.00	23.02	30.00	-6.98	0.07	23.09	36.02	-12.93
2467	12		18.47	18.59	21.54	30.00	-8.46	0.07	21.61	36.02	-14.41
2472	13		-2.68	-3.14	0.11	30.00	-29.89	0.07	0.18	36.02	-35.84

Table 7-6. Table 7-7. Conducted Output Power Measurements MIMO (802.11n 20MHz)

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2.4GHz WIFI (20MHz 802.11ac MIMO)						Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
Freq [MHz]	Channel	Detector	Conducted Power [dBm]								
			ANT1	ANT2	MIMO						
2412	1	Average	15.89	15.65	18.78	30.00	-11.22	0.07	18.85	36.02	-17.17
2417	2		18.91	18.66	21.80	30.00	-8.20	0.07	21.87	36.02	-14.15
2437	6		18.75	18.65	21.71	30.00	-8.29	0.07	21.78	36.02	-14.24
2457	10		18.67	18.55	21.62	30.00	-8.38	0.07	21.69	36.02	-14.33
2462	11		13.53	13.55	16.55	30.00	-13.45	0.07	16.62	36.02	-19.40
2467	12		12.02	11.95	15.00	30.00	-15.00	0.07	15.07	36.02	-20.95
2472	13		-9.18	-9.79	-6.46	30.00	-36.46	0.07	-6.39	36.02	-42.41
2412	1	Peak	22.29	22.06	25.19	30.00	-4.81	0.07	25.26	36.02	-10.76
2417	2		25.28	25.11	28.21	30.00	-1.79	0.07	28.28	36.02	-7.74
2437	6		25.11	25.09	28.11	30.00	-1.89	0.07	28.18	36.02	-7.84
2457	10		25.13	25.05	28.10	30.00	-1.90	0.07	28.17	36.02	-7.85
2462	11		20.03	19.98	23.02	30.00	-6.98	0.07	23.09	36.02	-12.93
2467	12		18.23	18.25	21.25	30.00	-8.75	0.07	21.32	36.02	-14.70
2472	13		-2.58	-3.31	0.08	30.00	-29.92	0.07	0.15	36.02	-35.87

Table 7-8. Table 7-9. Conducted Output Power Measurements MIMO (802.11ac 20MHz)

2.4GHz WIFI (20MHz 802.11ax MIMO)						Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
Freq [MHz]	Channel	Detector	Conducted Power [dBm]								
			ANT1	ANT2	MIMO						
2412	1	Average	15.90	15.75	18.84	30.00	-11.16	0.07	18.91	36.02	-17.11
2417	2		18.86	18.67	21.78	30.00	-8.22	0.07	21.85	36.02	-14.17
2437	6		18.82	18.75	21.80	30.00	-8.20	0.07	21.87	36.02	-14.15
2457	10		18.74	18.60	21.68	30.00	-8.32	0.07	21.75	36.02	-14.27
2462	11		13.75	13.72	16.75	30.00	-13.25	0.07	16.82	36.02	-19.20
2467	12		12.09	12.15	15.13	30.00	-14.87	0.07	15.20	36.02	-20.82
2472	13		-9.54	-10.16	-6.83	30.00	-36.83	0.07	-6.76	36.02	-42.78
2417	2	Peak	22.88	22.67	25.79	30.00	-4.21	0.07	25.86	36.02	-10.16
2437	6		25.90	25.53	28.73	30.00	-1.27	0.07	28.80	36.02	-7.22
2457	10		25.78	25.67	28.74	30.00	-1.26	0.07	28.81	36.02	-7.21
2462	11		21.00	20.95	23.99	30.00	-6.01	0.07	24.06	36.02	-11.96
2467	12		18.34	18.27	21.32	30.00	-8.68	0.07	21.39	36.02	-14.63
2472	13			-2.88	-3.31	-0.08	30.00	-30.08	0.07	-0.01	36.02

Table 7-10. Table 7-11. Conducted Output Power Measurements MIMO (802.11ax 20MHz)

2.4GHz WIFI (20MHz 802.11be MIMO)						Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
Freq [MHz]	Channel	Detector	Conducted Power [dBm]								
			ANT1	ANT2	MIMO						
2412	1	Average	15.98	15.76	18.88	30.00	-11.12	0.07	18.95	36.02	-17.07
2417	2		18.84	18.68	21.77	30.00	-8.23	0.07	21.84	36.02	-14.18
2437	6		18.83	18.75	21.80	30.00	-8.20	0.07	21.87	36.02	-14.15
2457	10		18.77	18.58	21.69	30.00	-8.31	0.07	21.76	36.02	-14.26
2462	11		13.65	13.63	16.65	30.00	-13.35	0.07	16.72	36.02	-19.30
2467	12		12.11	12.13	15.13	30.00	-14.87	0.07	15.20	36.02	-20.82
2472	13	Peak	-9.58	-10.15	-6.85	30.00	-36.85	0.07	-6.78	36.02	-42.80
2412	1		22.83	22.65	25.75	30.00	-4.25	0.07	25.82	36.02	-10.20
2417	2		25.72	25.51	28.63	30.00	-1.37	0.07	28.70	36.02	-7.32
2437	6		25.79	25.90	28.86	30.00	-1.14	0.07	28.93	36.02	-7.09
2457	10		25.66	25.61	28.65	30.00	-1.35	0.07	28.72	36.02	-7.30
2462	11		20.38	20.39	23.40	30.00	-6.60	0.07	23.47	36.02	-12.55
2467	12		18.40	18.32	21.37	30.00	-8.63	0.07	21.44	36.02	-14.58
2472	13		-2.89	-3.20	-0.03	30.00	-30.03	0.07	0.04	36.02	-35.98

Table 7-12. Table 7-13. Conducted Output Power Measurements MIMO (802.11be 20MHz)

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2.4GHz WIFI (40MHz 802.11n MIMO)						Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
Freq [MHz]	Channel	Detector	Conducted Powers [dBm]								
			ANT1	ANT2	MIMO						
2422	3	Average	13.28	13.26	16.28	30.00	-13.72	0.07	16.35	36.02	-19.67
2427	4		15.66	15.45	18.57	30.00	-11.43	0.07	18.64	36.02	-17.38
2432	5		15.71	15.51	18.62	30.00	-11.38	0.07	18.69	36.02	-17.33
2437	6		17.66	17.75	20.72	30.00	-9.28	0.07	20.79	36.02	-15.23
2442	7		16.81	16.57	19.70	30.00	-10.30	0.07	19.77	36.02	-16.25
2447	8		17.31	17.03	20.18	30.00	-9.82	0.07	20.25	36.02	-15.77
2452	9		13.48	13.59	16.55	30.00	-13.45	0.07	16.62	36.02	-19.40
2457	10		6.72	6.55	9.65	30.00	-20.35	0.07	9.72	36.02	-26.30
2462	11		-8.93	-9.34	-6.12	30.00	-36.12	0.07	-6.05	36.02	-42.07
2422	3	Peak	20.03	20.16	23.11	30.00	-6.89	0.07	23.18	36.02	-12.84
2427	4		22.38	22.14	25.27	30.00	-4.73	0.07	25.34	36.02	-10.68
2432	5		22.44	22.21	25.34	30.00	-4.66	0.07	25.41	36.02	-10.61
2437	6		24.56	24.60	27.59	30.00	-2.41	0.07	27.66	36.02	-8.36
2442	7		23.58	23.34	26.47	30.00	-3.53	0.07	26.54	36.02	-9.48
2447	8		24.51	24.22	27.38	30.00	-2.62	0.07	27.45	36.02	-8.57
2452	9		20.02	20.45	23.25	30.00	-6.75	0.07	23.32	36.02	-12.70
2457	10		13.61	13.48	16.56	30.00	-13.44	0.07	16.63	36.02	-19.39
2462	11		-2.21	-2.59	0.61	30.00	-29.39	0.07	0.68	36.02	-35.34

Table 7-14. Table 7-15. Conducted Output Power Measurements MIMO (802.11n 40MHz)

2.4GHz WIFI (40MHz 802.11ac MIMO)						Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
Freq [MHz]	Channel	Detector	Conducted Powers [dBm]								
			ANT1	ANT2	MIMO						
2422	3	Average	13.28	13.26	16.28	30.00	-13.72	0.07	16.35	36.02	-19.67
2427	4		15.65	15.37	18.52	30.00	-11.48	0.07	18.59	36.02	-17.43
2432	5		15.65	15.41	18.54	30.00	-11.46	0.07	18.61	36.02	-17.41
2437	6		17.65	17.75	20.71	30.00	-9.29	0.07	20.78	36.02	-15.24
2442	7		16.78	16.54	19.67	30.00	-10.33	0.07	19.74	36.02	-16.28
2447	8		17.32	17.01	20.18	30.00	-9.82	0.07	20.25	36.02	-15.77
2452	9		13.46	13.58	16.53	30.00	-13.47	0.07	16.60	36.02	-19.42
2457	10		6.70	6.58	9.65	30.00	-20.35	0.07	9.72	36.02	-26.30
2462	11		-8.97	-9.37	-6.16	30.00	-36.16	0.07	-6.09	36.02	-42.11
2422	3	Peak	20.00	20.17	23.10	30.00	-6.90	0.07	23.17	36.02	-12.85
2427	4		22.04	21.77	24.92	30.00	-5.08	0.07	24.99	36.02	-11.03
2432	5		22.06	21.73	24.91	30.00	-5.09	0.07	24.98	36.02	-11.04
2437	6		24.39	24.85	27.64	30.00	-2.36	0.07	27.71	36.02	-8.31
2442	7		23.58	23.34	26.47	30.00	-3.53	0.07	26.54	36.02	-9.48
2447	8		24.41	24.12	27.28	30.00	-2.72	0.07	27.35	36.02	-8.67
2452	9		20.39	20.65	23.53	30.00	-6.47	0.07	23.60	36.02	-12.42
2457	10		13.71	13.49	16.61	30.00	-13.39	0.07	16.68	36.02	-19.34
2462	11		-2.26	-2.63	0.57	30.00	-29.43	0.07	0.64	36.02	-35.38

Table 7-16. Table 7-17. Conducted Output Power Measurements MIMO (802.11ac 40MHz)

2.4GHz WIFI (40MHz 802.11ax MIMO)						Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
Freq [MHz]	Channel	Detector	Conducted Powers [dBm]								
			ANT1	ANT2	MIMO						
2422	3	Average	13.28	13.26	16.28	30.00	-13.72	0.07	16.35	36.02	-19.67
2427	4		15.74	15.45	18.61	30.00	-11.39	0.07	18.68	36.02	-17.34
2432	5		15.75	15.49	18.63	30.00	-11.37	0.07	18.70	36.02	-17.32
2437	6		17.68	17.77	20.74	30.00	-9.26	0.07	20.81	36.02	-15.21
2442	7		16.60	16.33	19.48	30.00	-10.52	0.07	19.55	36.02	-16.47
2447	8		17.07	16.75	19.92	30.00	-10.08	0.07	19.99	36.02	-16.03
2452	9		13.45	13.56	16.52	30.00	-13.48	0.07	16.59	36.02	-19.43
2457	10		6.71	6.58	9.66	30.00	-20.34	0.07	9.73	36.02	-26.29
2462	11		-8.95	-9.43	-6.17	30.00	-36.17	0.07	-6.10	36.02	-42.12
2422	3	Peak	20.10	20.06	23.09	30.00	-6.91	0.07	23.16	36.02	-12.86
2427	4		22.57	22.13	25.37	30.00	-4.63	0.07	25.44	36.02	-10.58
2432	5		22.61	22.12	25.38	30.00	-4.62	0.07	25.45	36.02	-10.57
2437	6		24.56	24.61	27.60	30.00	-2.40	0.07	27.67	36.02	-8.35
2442	7		24.51	23.90	27.23	30.00	-2.77	0.07	27.30	36.02	-8.72
2447	8		24.37	23.90	27.15	30.00	-2.85	0.07	27.22	36.02	-8.80
2452	9		20.29	20.65	23.48	30.00	-6.52	0.07	23.55	36.02	-12.47
2457	10		13.94	13.65	16.81	30.00	-13.19	0.07	16.88	36.02	-19.14
2462	11		-2.15	-2.53	0.67	30.00	-29.33	0.07	0.74	36.02	-35.28

Table 7-18. Table 7-19. Conducted Output Power Measurements MIMO (802.11ax 40MHz)

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2.4GHz WIFI (40MHz 802.11be MIMO)						Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
Freq [MHz]	Channel	Detector	Conducted Powers [dBm]								
			ANT1	ANT2	MIMO						
2422	3	Average	13.63	13.60	16.63	30.00	-13.37	0.07	16.70	36.02	-19.32
2427	4		15.72	15.44	18.59	30.00	-11.41	0.07	18.66	36.02	-17.36
2432	5		15.76	15.48	18.63	30.00	-11.37	0.07	18.70	36.02	-17.32
2437	6		17.50	17.58	20.55	30.00	-9.45	0.07	20.62	36.02	-15.40
2442	7		16.61	16.36	19.50	30.00	-10.50	0.07	19.57	36.02	-16.45
2447	8		17.12	16.81	19.98	30.00	-10.02	0.07	20.05	36.02	-15.97
2452	9		13.27	13.40	16.35	30.00	-13.65	0.07	16.42	36.02	-19.60
2457	10		6.69	6.57	9.64	30.00	-20.36	0.07	9.71	36.02	-26.31
2462	11		-8.94	-9.43	-6.17	30.00	-36.17	0.07	-6.10	36.02	-42.12
2422	3	Peak	20.52	20.49	23.52	30.00	-6.48	0.07	23.59	36.02	-12.43
2427	4		22.71	22.11	25.43	30.00	-4.57	0.07	25.50	36.02	-10.52
2432	5		22.65	22.29	25.48	30.00	-4.52	0.07	25.55	36.02	-10.47
2437	6		24.48	24.56	27.53	30.00	-2.47	0.07	27.60	36.02	-8.42
2442	7		24.45	23.90	27.19	30.00	-2.81	0.07	27.26	36.02	-8.76
2447	8		24.31	23.84	27.09	30.00	-2.91	0.07	27.16	36.02	-8.86
2452	9		20.02	20.30	23.17	30.00	-6.83	0.07	23.24	36.02	-12.78
2457	10		14.02	13.89	16.97	30.00	-13.03	0.07	17.04	36.02	-18.98
2462	11		-2.00	-2.23	0.90	30.00	-29.10	0.07	0.97	36.02	-35.05

Table 7-20. Table 7-21. Conducted Output Power Measurements MIMO (802.11be 40MHz)

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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 maximum power, and at the appropriate frequencies. All data rates and modes were investigated for radiated spurious emissions. 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 FCC §15.205 of the Title 47 CFR and Table 6 of RSS-Gen (8.10) must not exceed the limits shown FCC §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 7-22. Radiated Limits

Test Procedures Used

ANSI C63.10:2020 – Section 6.6.4.3, 11.12.2.2

Test Settings – Above 1GHz

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 = 3MHz
4. Detector = power average (RMS)
5. Number of measurement points = 1001 (Number of points must be $\geq 2 \times \text{span/RBW}$)
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.

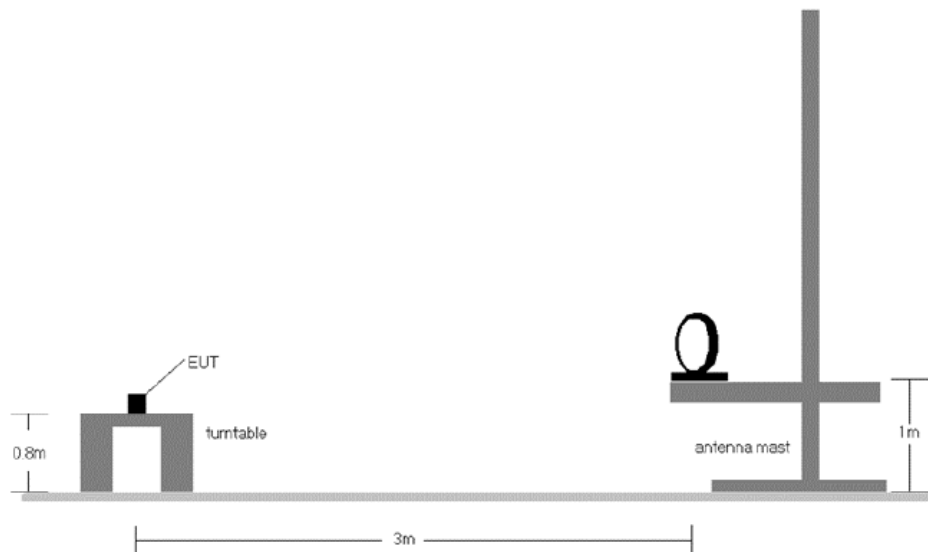


Figure 7-2. Radiated Test Setup < 30MHz

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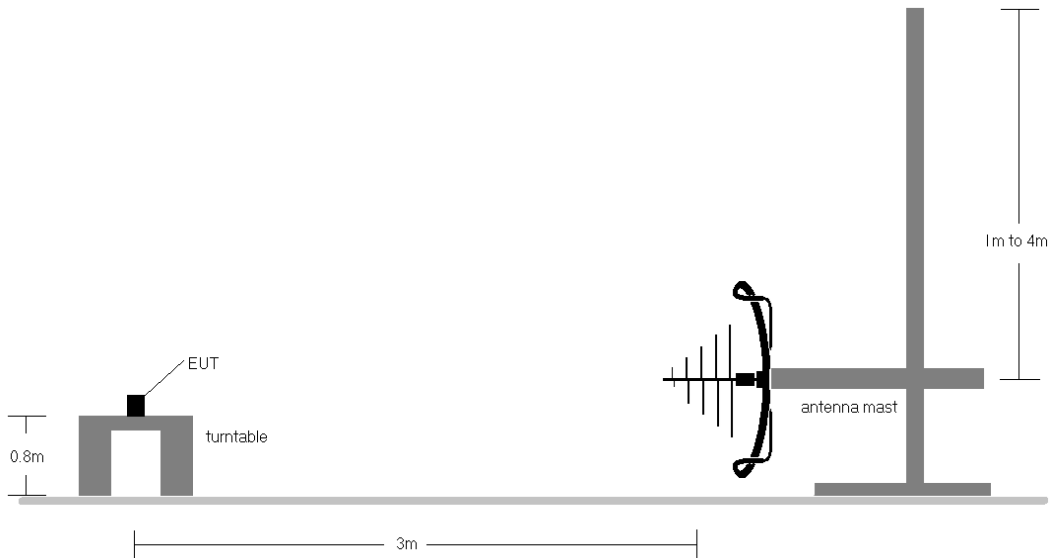


Figure 7-3. Radiated Test Setup < 1GHz

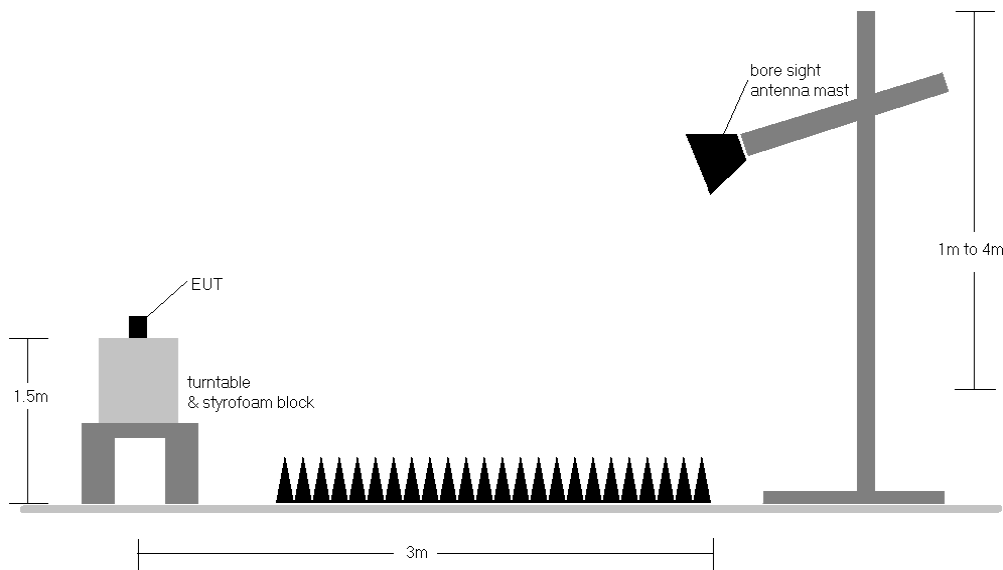


Figure 7-4. Radiated Test Setup > 1GHz



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

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Test Notes

1. All emissions lying in restricted bands specified in §15.205 and Section 8.10 of RSS-Gen are below the limits shown in §15.209.
2. The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
3. 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.
4. 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.
5. 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.
6. The "-" shown in the following RSE tables are used to denote a noise floor measurement.
7. Emissions are investigated while operating on the center channel of the mode, band, and modulation that produced the worst-case results during the transmitter spurious emissions testing.
8. No spurious emissions were detected within 20dB of the limit below 30MHz.
9. 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.
10. The wide spectrum spurious emissions plots shown on the following pages are used only for the purpose of emission identification. There were no emissions detected in the 30MHz – 1GHz frequency range, as shown in the subsequent plots.
11. 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.
12. Restricted 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.

Sample Calculations

Determining Spurious Emissions Levels

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

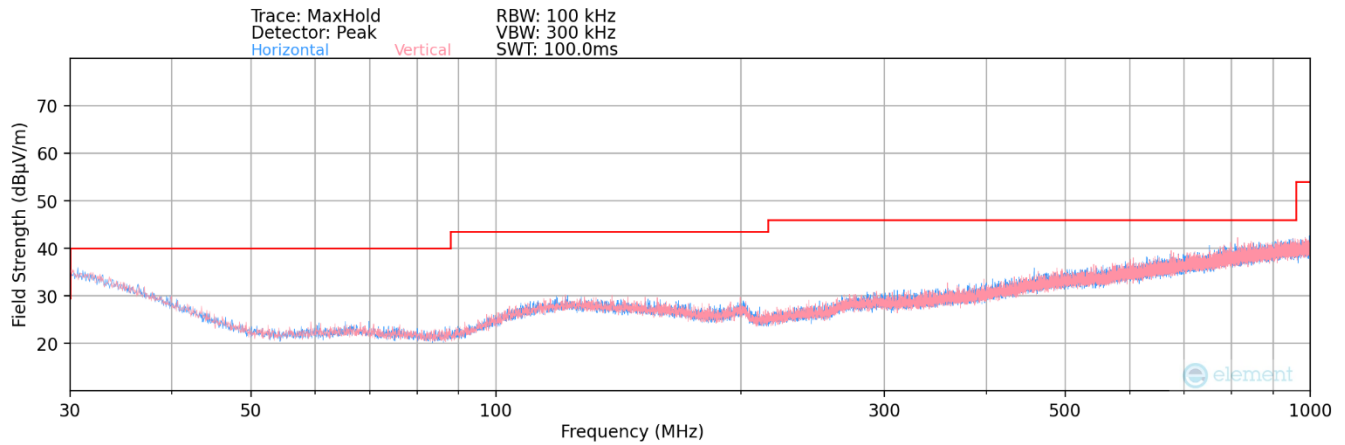
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Conducted Band Edge Field Strength Conversion

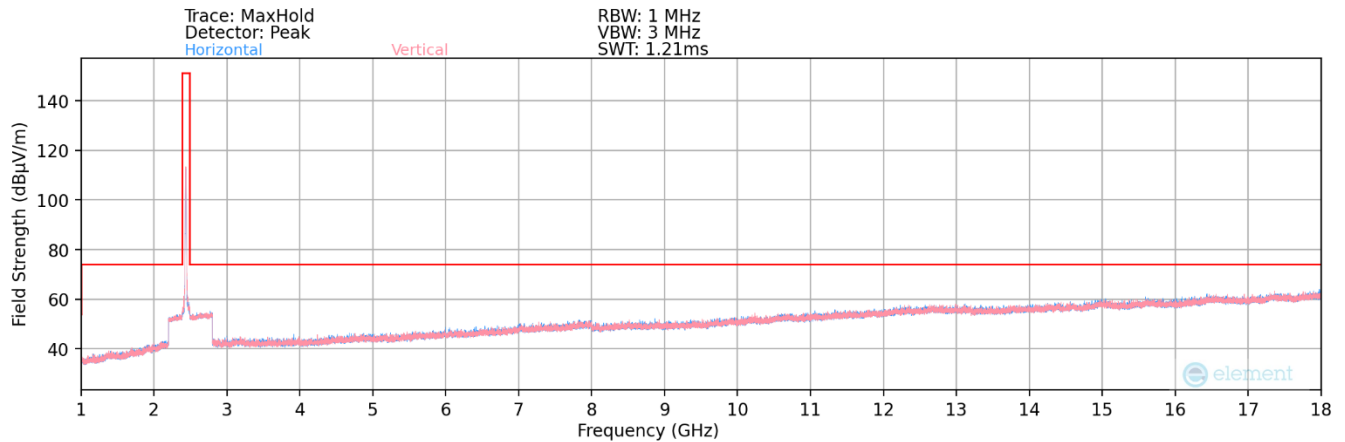
- Field Strength Level $_{[dB\mu V/m]} = EIRP_{[dBm]} + 95.2$
 $= \text{Conducted Emission}_{[dBm]} + \text{Directional Gain}_{[dBi]} + 95.2$

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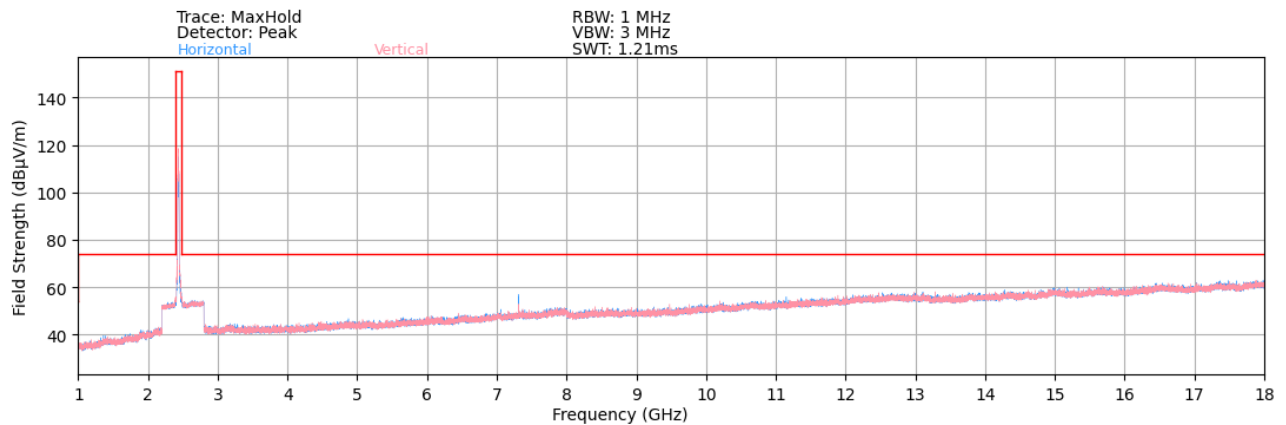
7.3.1 MIMO Radiated Spurious Emission Measurements



Plot 7-1. Radiated Spurious Plot below 1GHz MIMO – 802.11b

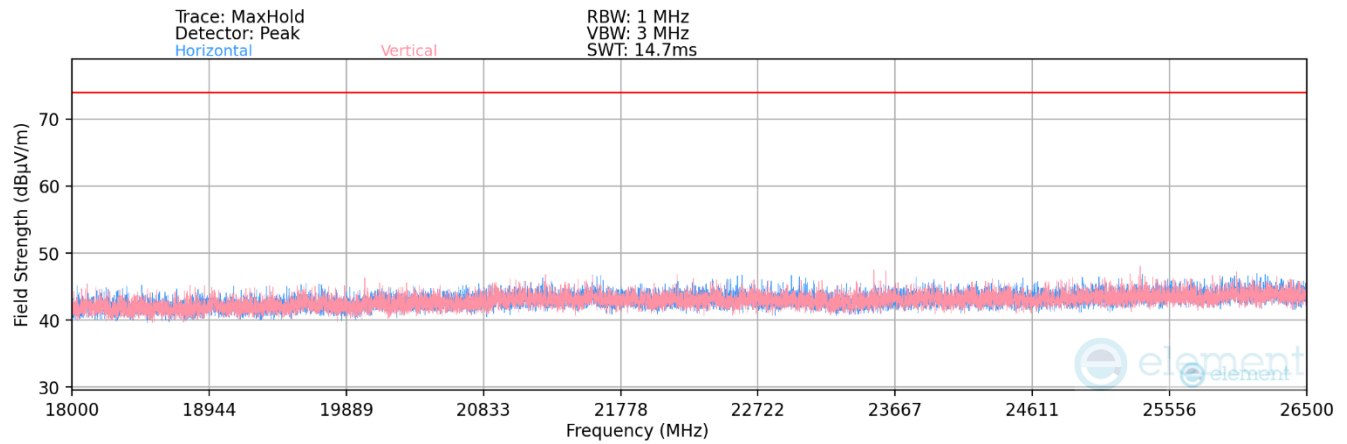


Plot 7-2. Radiated Spurious Plot above 1GHz MIMO (802.11b – Ch. 6)



Plot 7-3. Radiated Spurious Plot above 1GHz MIMO (802.11be 52T – Ch. 6)

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Plot 7-4. Radiated Spurious Plot above 18GHz MIMO 802.11b

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Worst Case Mode: 802.11b
 Worst Case Transfer Rate: 1 Mbps
 Distance of Measurements: 3 Meters
 Operating Frequency: 2437MHz
 Channel: 6

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Duty Cycle Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4874.00	Avg	H	235	291	-78.86	2.73	0.10	30.97	53.98	-23.01
4874.00	Peak	H	235	291	-66.72	2.73	0.00	43.01	73.98	-30.97
7311.00	Avg	H	235	291	-75.79	8.91	0.10	40.22	53.98	-13.76
7311.00	Peak	H	235	291	-58.34	8.92	0.00	57.58	73.98	-16.40
12185.00	Avg	H	-	-	-82.78	12.62	0.00	36.84	53.98	-17.14
12185.00	Peak	H	-	-	-70.31	12.62	0.00	49.32	73.98	-24.66

Table 7-23. Radiated Measurements MIMO 802.11b

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]
303.00	Quasi-Peak	H	-	-	-97.17	21.23	31.06	46.02	-14.96

Table 7-24. Radiated Measurements MIMO <1GHz 802.11b

FCC ID: C3K00002101	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: 802.11be
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 2412MHz
 Channel: 1
 RU Index 0

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]
4824.00	Avg	H	173	191	-75.00	2.33	34.33	53.98	-19.65
4824.00	Peak	H	173	191	-60.63	2.33	48.70	73.98	-25.28
12060.00	Avg	H	-	-	-81.78	12.73	37.95	53.98	-16.03
12060.00	Peak	H	-	-	-68.97	12.73	50.76	73.98	-23.22

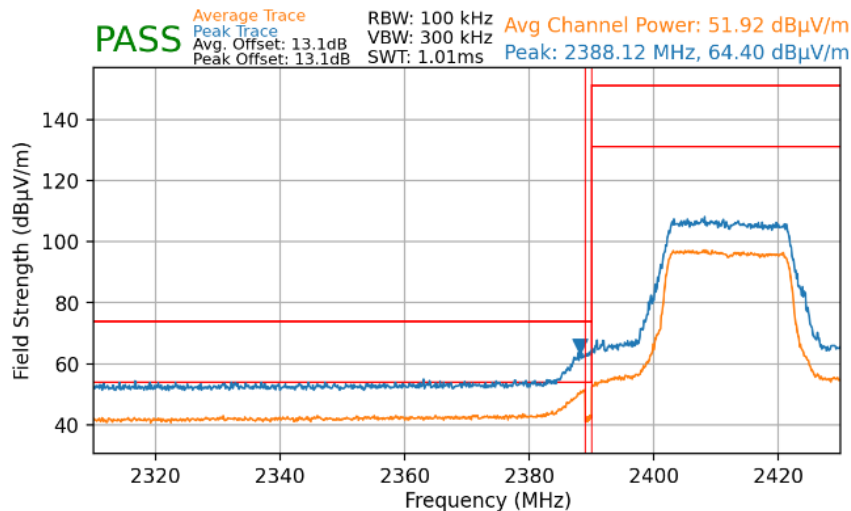
Table 7-25. Radiated Measurements MIMO – 802.11be 26T

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7.4 MIMO Restricted Band Edge Measurements

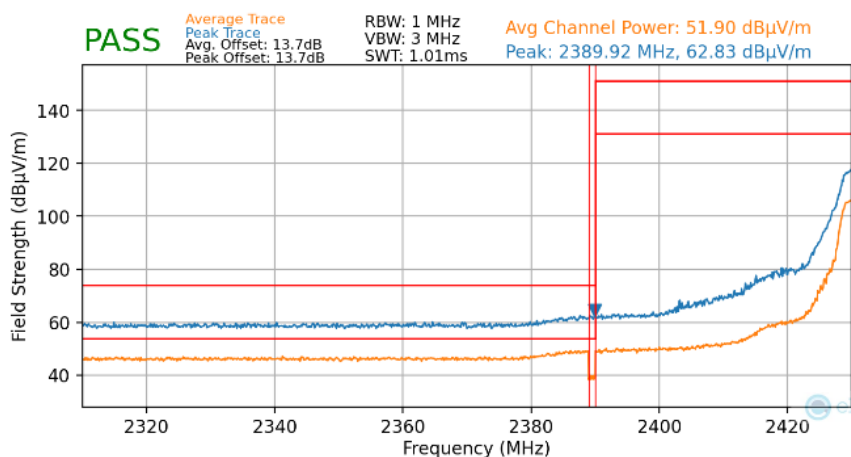
The restricted band edge measurements are measured with an EMI test receiver connected to the EUT while transmitting. The test cases for restricted band edge measurements are based on the manufacturer's "Host test requirements for WIFI_BT module" document.

Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	2412MHz
Channel:	1



Plot 7-5. Restricted Lower Band Edge Measurement MIMO

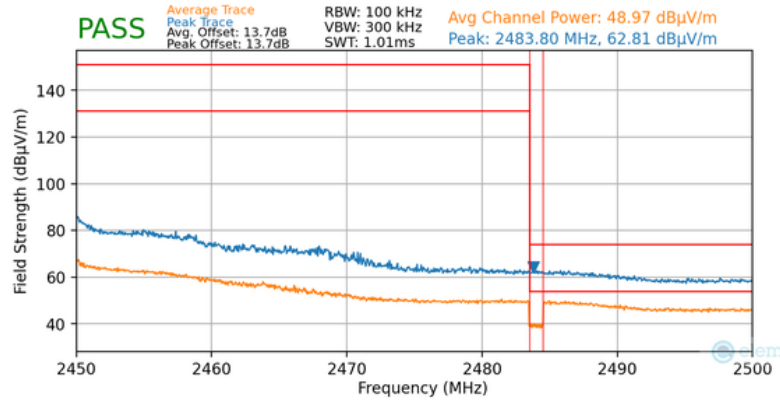
Worst Case Mode:	802.11b
Worst Case Transfer Rate:	1Mbps
Distance of Measurements:	3 Meters
Operating Frequency:	2437MHz
Channel:	6



Plot 7-6. Restricted Lower Band Edge Measurement MIMO

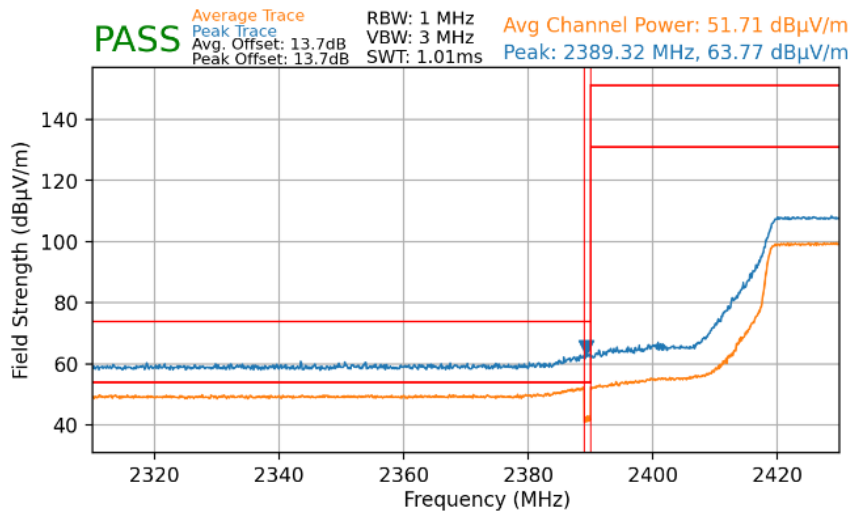
FCC ID: C3K00002101	MEASUREMENT REPORT (Class II Permissive Change)	Test Dates: 4/15/2026 - 6/24/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
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Worse Case Mode: 802.11b
Worst Case Transfer Rate: 1Mbps
Distance of Measurements: 3 Meters
Operating Frequency: 2437MHz
Channel: 6



Plot 7-7. Restricted Upper Band Edge Measurement MIMO

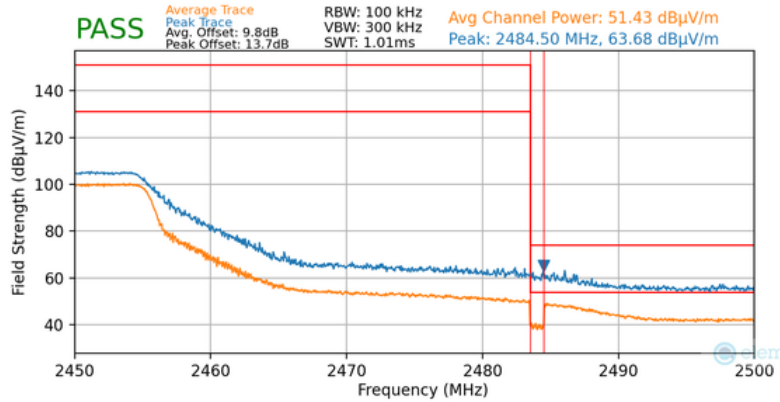
Worst Case Mode: 802.11n [40MHz]
Worst Case Transfer Rate: MCS8
Distance of Measurements: 3 Meters
Operating Frequency: 2437MHz
Channel: 6



Plot 7-8. Restricted Lower Band Edge Measurement MIMO

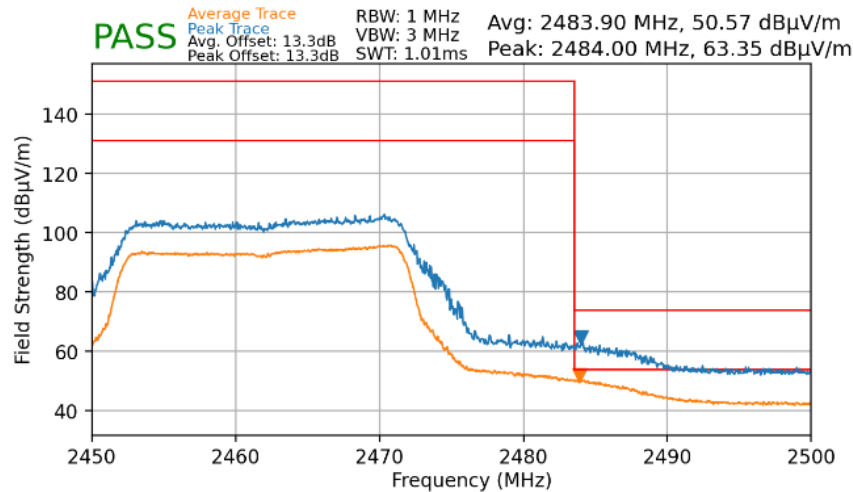
FCC ID: C3K00002101	MEASUREMENT REPORT (Class II Permissive Change)	Test Dates: 4/15/2026 - 6/24/2026	EUT Type: Limited Modular Approval - Host Integration Computing Device	Approved by: Technical Manager
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Worst Case Mode: 802.11n [40MHz]
 Worst Case Transfer Rate: MCS8
 Distance of Measurements: 3 Meters
 Operating Frequency: 2437MHz
 Channel: 6



Plot 7-9. Restricted Upper Band Edge Measurement MIMO

Worst Case Mode: 802.11be
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 2462MHz
 Channel: 11



Plot 7-10. Restricted Upper Band Edge Measurement MIMO

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7.5 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 §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 7-26. 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.

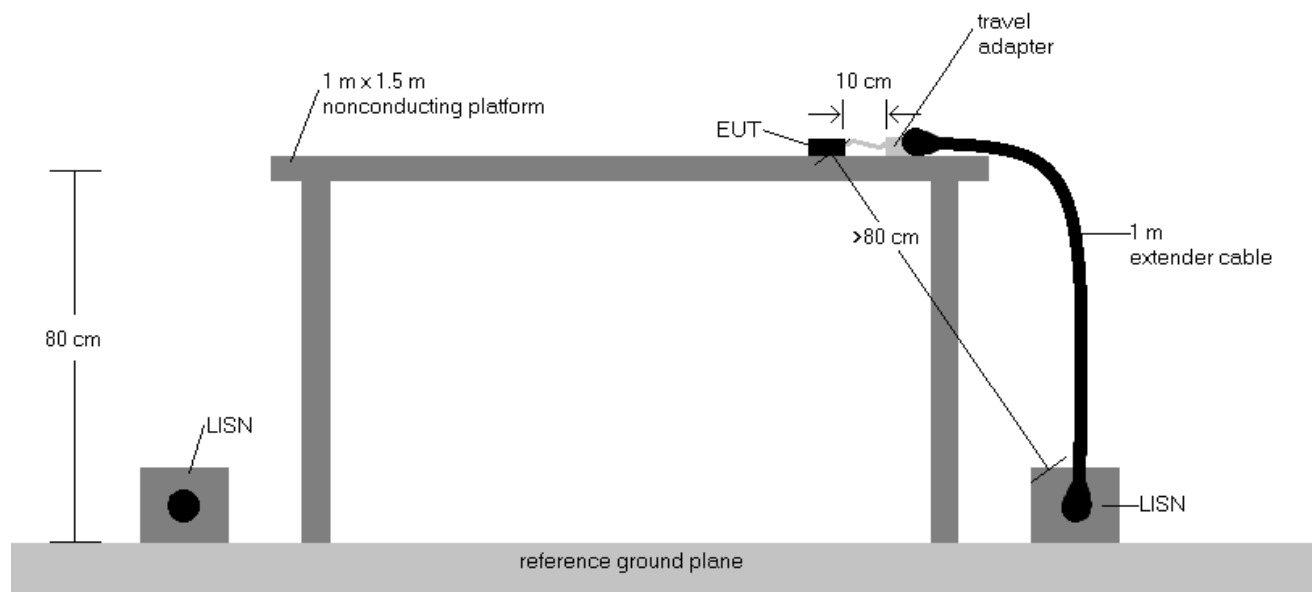
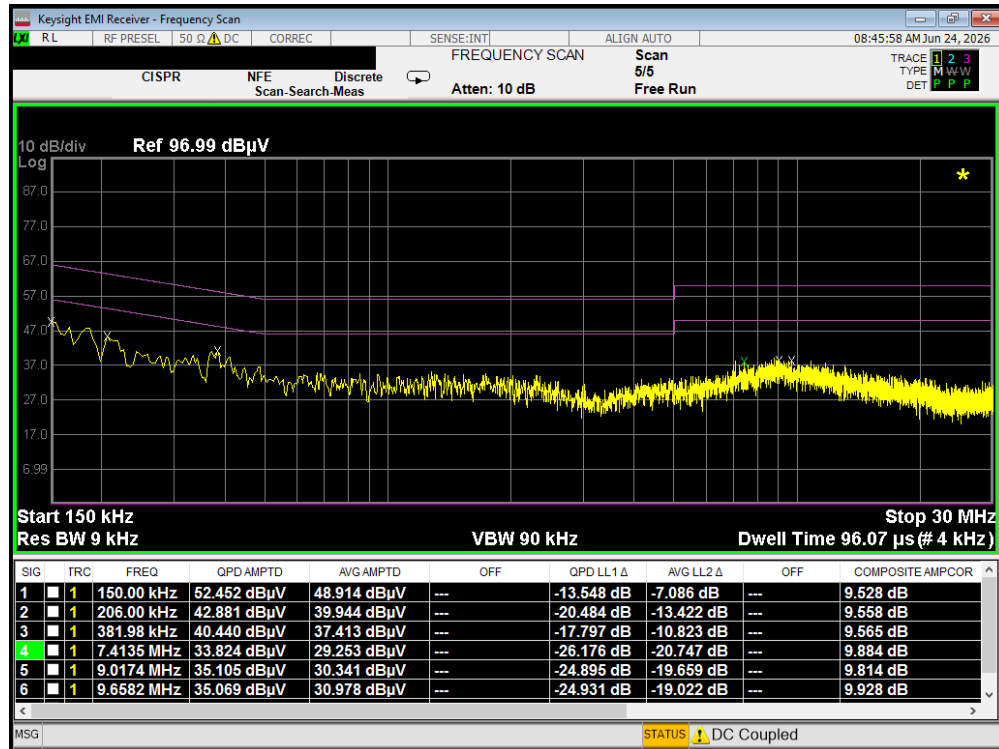


Figure 7-6. Test Instrument & Measurement Setup

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 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.

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Plot 7-11. Line Conducted Plot with 802.11b – Ch.6 (L1)

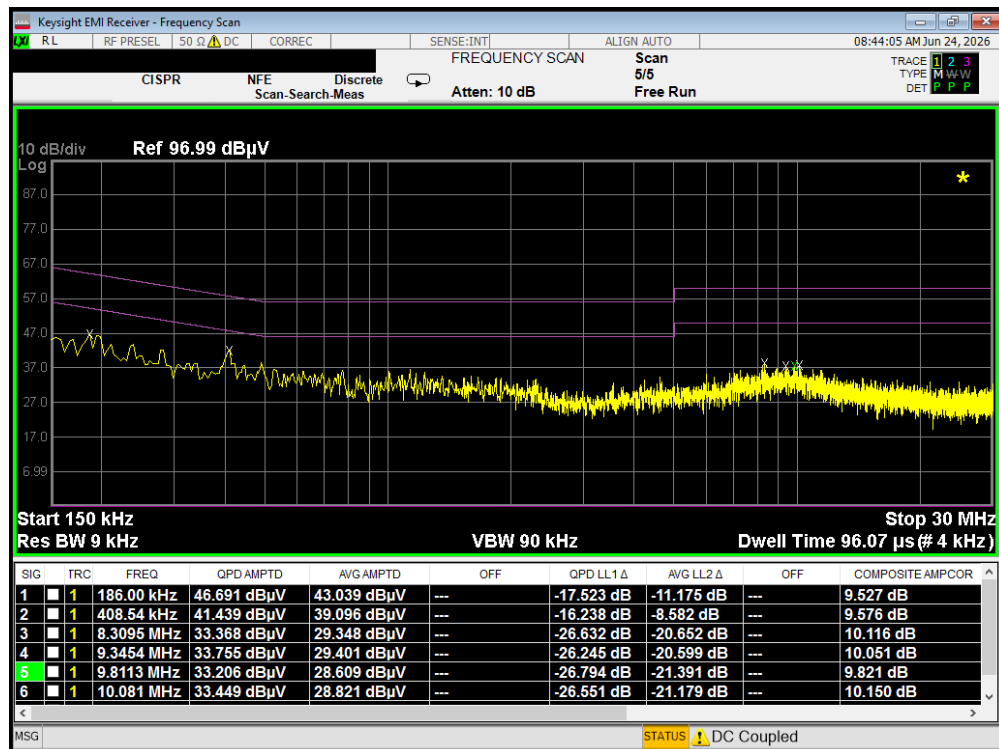


Table 7-27. Line Conducted Data with 802.11b Ch.6 (N)

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8.0 CONCLUSION

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

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