

**ELEMENT WASHINGTON DC LLC**

7185 Oakland Mills Road, Columbia, MD 21046 USA

Tel. 410.290.6652 / Fax 410.381.1520

<http://www.element.com>**MEASUREMENT REPORT****FCC PART 15.407 / ISSED RSS-248 802.11a/ax/be WiFi 6E (OFDM)****Applicant Name:**

Microsoft Corporation
One Microsoft Way
Redmond, WA 98052
United States

Date of Testing:

12/16/2025 - 02/17/2026

Test Report Issue Date:

3/20/2026

Test Site/Location:

Element lab., Columbia, MD, USA

Test Report Serial No.:

1M2511200095-08-R2.C3K

FCC ID:**C3K2085****IC:****3048A-2085****APPLICANT:****Microsoft Corporation****Application Type:**

Class II Permissive Change

Model/HVIN:

2085

EUT Type:

Portable Computing Device

Frequency Range:

5935 – 7115MHz

Modulation Type:

OFDM

FCC Classification:

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

FCC Rule Part(s):

Part 15 Subpart E (15.407)

FCC Test Procedure(s):

ANSI C63.10:2020 + Cor. 1:2023, KDB 558074 D01 v05r02

ISED Test Procedure(s):

ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024, KDB 558074 D01 v05r02

ISED Specification(s):

RSS-248 Issue 3

Class II Permissive Change:

Please see FCC change document

Original Grant Date:

05/14/2024

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.10-2013. Test results reported herein relate only to the item(s) tested.

This revised Test Report (1M2511200095-08-R2.C3K) supersedes and replaces the previously issued test report (S/N: 1M2511200095-08-R1.C3K) on the same subject device for the same type of testing as indicated. Please discard or destroy the previously issued test report(s) and dispose of it accordingly.

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

RJ Ortanez
Executive Vice President



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TEST REPORT REVISION HISTORY

Rev. No.	Description	Issue Date	Revised By
-	Initial Release	3/17/2026	WKR0000005826
1	Addressed TCB reviewer comments	3/19/2026	WKR0000020239
2	Addressed TCB reviewer comments	3/20/2026	WKR0000020239

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Channel Bandwidth [MHz]	UNII Band	Tx Frequency [MHz]	MIMO	
			Max. Power [mW]	Max. Power [dBm]
20	5	5955 - 6415	720.33	28.58
	6	6435 - 6515	8.40	9.24
	7	6535 - 6875	506.44	27.05
	8	6895 - 7115	10.06	10.03
40	5	5965 - 6405	890.29	29.50
	6	6445 - 6525	16.76	12.24
	7	6565 - 6845	641.99	28.08
	8	6885 - 7085	20.98	13.22
80	5	5985 - 6385	615.93	27.90
	6	6465	30.70	14.87
	7	6545 - 6865	627.38	27.98
	8	6945 - 7025	35.05	15.45
160	5	6025 - 6345	643.47	28.09
	6	6505	50.84	17.06
	7	6665 - 6825	542.66	27.35
	8	6985	59.76	17.76
320	5	6105 - 6265	536.45	27.30
	6	6425	84.76	19.28
	7	6585 - 6745	70.81	18.50
	8	6905	69.26	18.40

EUT Overview – Low Power Indoor / Standard Power Client – EIRP

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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

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

1.3 Test Facility / Accreditations

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

- Element Washington DC LLC is an ISO 17025-2017 accredited test facility under the American Association for Laboratory Accreditation (A2LA) with Certificate number 2041.01 for Specific Absorption Rate (SAR), Hearing Aid Compatibility (HAC) testing, where applicable, and Electromagnetic Compatibility (EMC) testing for FCC and Innovation, Science, and Economic Development Canada rules.
- Element Washington DC LLC TCB is a Telecommunication Certification Body (TCB) accredited to ISO\IEC 17065-2012 by A2LA (Certificate number 2041.03) in all scopes of FCC Rules and ISED Standards (RSS).
- Element Washington DC LLC facility is a registered (2451B) test laboratory with the site description on file with ISED.
- Element Washington DC LLC is a Recognized U.S. Certification Assessment Body (CAB # US0110) for ISED Canada as designated by NIST under 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 Corporation Portable Computing Device FCC ID: C3K2085 / IC: 3048A-2085**. The test data contained in this report pertains only to the emissions due to the EUT's UNII transmitter while operating in the 6GHz band.

This report is being issued as a Class II Permissive Change due to new antenna design due to enclosure changes near the antenna and higher antenna gains. Full details are provided in the change description. The test data in this report demonstrates the continued compliance to FCC Part 15.407 and ISSED RSS-248.

Test Device Serial No.: 343V2, 96T92, DM332, 96T82, DM392, 34342

2.2 Device Capabilities

This device contains the following capabilities:

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

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

Band 5		Band 6		Band 7		Band 8	
Ch.	Frequency (MHz)	Ch.	Frequency (MHz)	Ch.	Frequency (MHz)	Ch.	Frequency (MHz)
7	5985	103	6465	119	6545	199	6945
:	:			:	:	:	:
39	6145			151	6705	215	7025
:	:			:	:		
87	6385			183	6865		

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

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Band 5		Band 6		Band 7		Band 8	
Ch.	Frequency (MHz)	Ch.	Frequency (MHz)	Ch.	Frequency (MHz)	Ch.	Frequency (MHz)
15	6025	111	6505	143	6665	207	6985
47	6185			175	6825		
79	6345						

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

Band 5		Band 6		Band 7		Band 8	
Ch.	Frequency (MHz)	Ch.	Frequency (MHz)	Ch.	Frequency (MHz)	Ch.	Frequency (MHz)
31	6105	95	6425	127	6585	191	6905
63	6265			159	6745		

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 C63.10-2013. 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	98.91
	ax (HE20)	98.31
	be (EHT20)	98.45
	ax (HE40)	98.32
	be (EHT40)	98.24
	ax (HE80)	98.10
	be (EHT80)	96.81
	be (EHT80, 20MHz Puncture)	98.13
	ax (HE160)	96.78
	be (EHT160)	97.64
	be (EHT160, 20MHz Puncture)	98.14
	be (EHT160, 40MHz Puncture)	98.34
	be (EHT320)	97.41
	be (EHT320, 40MHz Puncture)	97.42
	be (EHT320, 80MHz Puncture)	97.45
	be (EHT320, 120MHz Puncture)	97.72

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	Spatial Stream	OFDM (802.11a/b/e)														
		20MHz			40MHz			80MHz			160MHz			320MHz		
		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	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	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	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	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	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	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	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	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
	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
	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
	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
	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
	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
	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	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	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	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	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	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	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	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	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
	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
	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
	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
	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
	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
	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

MCS Index	Spatial Stream	OFDM (802.11b/e)														
		80MHz 20MHz Puncture			160MHz 40MHz Puncture			160MHz 20MHz Puncture			320MHz 120MHz Puncture			320MHz 80MHz Puncture		
		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
EHT		0.8	1.6	3.2	0.8	1.6	3.2	0.8	1.6	3.2	0.8	1.6	3.2	0.8	1.6	3.2
		702	702	702	1448	1448	1448	1682	1682	1682	2428	2428	2428	2940	2940	2940
0	1	25.8	24.4	21.9	53.2	50.3	45.3	61.8	58.4	52.6	89.3	84.3	75.9	108.1	102.1	91.9
1	1	51.6	48.8	43.9	106.5	100.6	90.5	123.7	116.8	105.1	178.5	168.6	151.8	216.2	204.2	183.8
2	1	77.4	73.1	65.8	159.7	150.8	135.8	185.5	175.2	157.7	267.8	252.9	227.6	324.3	306.3	275.6
3	1	103.2	97.5	87.8	212.9	201.1	181	247.4	233.6	210.3	357.1	337.2	303.5	432.4	408.3	367.5
4	1	154.9	146.3	131.6	319.4	301.7	271.5	371	350.4	315.4	535.6	505.8	455.3	648.5	612.5	551.3
5	1	206.5	195	175.5	425.9	402.2	362	494.7	467.2	420.5	714.1	674.4	607	864.7	816.7	735
6	1	232.3	219.4	197.4	479.1	452.5	407.3	556.5	525.6	473.1	803.4	758.8	682.9	972.8	918.8	826.9
7	1	258.1	243.8	219.4	532.4	502.8	452.5	618.4	584	525.6	892.6	843.1	758.8	1080.9	1020.8	918.8
8	1	309.7	292.5	263.3	638.8	603.3	543	742.1	700.8	630.8	1071.2	1011.7	910.5	1297.1	1225	1102.5
9	1	344.1	325	292.5	709.8	670.4	603.3	824.5	778.7	700.8	1190.2	1124.1	1011.7	1441.2	1361.1	1225
10	1	387.1	365.6	329.1	798.5	754.2	678.8	927.6	876	788.4	1339	1264.6	1138.1	1621.3	1531.3	1378.1
11	1	430.1	406.3	365.6	887.3	838	754.2	1030.6	973.4	876	1487.7	1405.1	1264.6	1801.5	1701.4	1531.3
12	1	464.6	438.8	394.9	958.2	905	814.5	1113.1	1051.3	946.1	1606.8	1517.5	1365.8	1945.6	1837.5	1653.8
13	1	516.2	487.5	438.8	1064.7	1005.6	905	1236.8	1168.1	1051.3	1785.3	1686.1	1517.5	2161.8	2041.7	1837.5
0	2	51.6	48.8	43.9	106.5	100.6	90.5	123.7	116.8	105.1	178.5	168.6	151.8	216.2	204.2	183.8
1	2	103.2	97.5	87.8	212.9	201.1	181	247.4	233.6	210.3	357.1	337.2	303.5	432.4	408.3	367.5
2	2	154.9	146.3	131.6	319.4	301.7	271.5	371	350.4	315.4	535.6	505.8	455.3	648.5	612.5	551.3
3	2	206.5	195	175.5	425.9	402.2	362	494.7	467.2	420.5	714.1	674.4	607	864.7	816.7	735
4	2	309.7	292.5	263.3	638.8	603.3	543	742.1	700.8	630.8	1071.2	1011.7	910.5	1297.1	1225	1102.5
5	2	412.9	390	351	851.8	804.4	724	989.4	934.4	841	1428.2	1348.9	1214	1729.4	1633.3	1470
6	2	464.6	438.8	394.9	958.2	905	814.5	1113.1	1051.3	946.1	1606.8	1517.5	1365.8	1945.6	1837.5	1653.8
7	2	516.2	487.5	438.8	1064.7	1005.6	905	1236.8	1168.1	1051.3	1785.3	1686.1	1517.5	2161.8	2041.7	1837.5
8	2	619.4	585	526.5	1277.6	1206.7	1086	1484.1	1401.7	1261.5	2142.4	2023.3	1821	2594.1	2450	2205
9	2	688.2	650	585	1419.6	1340.7	1206.7	1649	1557.4	1401.7	2380.4	2248.1	2023.3	2882.4	2722.2	2450
10	2	774.3	731.3	658.1	1597.1	1508.3	1357.5	1855.1	1752.1	1576.9	2677.9	2529.2	2276.3	3242.6	3062.5	2756.3
11	2	860.3	812.5	731.3	1774.5	1675.9	1508.3	2061.3	1946.8	1752.1	2975.5	2810.2	2529.2	3602.9	3402.8	3062.5
12	2	929.1	877.5	789.8	1916.5	1810	1629	2226.2	2102.5	1892.3	3213.5	3035	2731.5	3891.2	3675	3307.5
13	2	1032.4	975	877.5	2129.4	2011.1	1810	2473.5	2336.1	2102.5	3570.6	3372.2	3035	4323.5	4083.3	3675

Table 2-9. Supported Data Rates Channel Puncturing

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2.3 Antenna Description

The following antenna gains are used in this device per the "Antenna Gain" 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]	Directional Gain [dBi]
5925 – 6425 MHz	4.07	2.95	6.54
6425 – 6525 MHz	3.63	2.52	6.10
6525 – 6875 MHz	4.22	4.21	7.23
6875 – 7125 MHz	4.56	4.21	7.40

Table 2-10. Antenna Peak Gain – OLED

	Ant1 Peak Gain [dBi]	Ant2 Peak Gain [dBi]	Directional Gain [dBi]
5925 – 6425 MHz	6.24	6.21	9.24
6425 – 6525 MHz	5.77	4.29	8.07
6525 – 6875 MHz	4.28	3.71	7.01
6875 – 7125 MHz	4.15	3.62	6.90

Table 2-11. Antenna Peak Gain - LCD

2.4 Test Configuration

The EUT was tested per the guidance of ANSI C63.10-2013 and KDB 987594 D02 v02r01. ANSI C63.10-2013 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, and 7.2, 7.3, 7.4, 7.5 and 7.6 for antenna port conducted emissions test setups.

The device has either an OLED or LCD display type. Testing was performed with both display types and only worst-case emissions are reported.

2.5 Software and Firmware

The test was conducted with firmware version 2025.1111.11121401 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 C63.10-2013) and the guidance provided in KDB 987594 D02 v02r01 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 7.9. 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 C63.10-2013. 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

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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 18-40	EMC Cable and Switch System	2/25/2025	Annual	2/25/2026	MD 1M 40
-	AP2-001	EMC Cable and Switch System	2/25/2025	Annual	2/25/2026	AP2-001
-	AP2-002	EMC Cable and Switch System	2/25/2025	Annual	2/25/2026	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)	2/25/2025	Annual	2/25/2026	WL25-1
-	WL40-1	Conducted Cable Set (40GHz)	2/25/2025	Annual	2/25/2026	WL40-1
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	3/25/2025	Annual	3/25/2026	101716
Agilent	N9038A	MXE EMI Receiver	11/10/2025	Annual	11/10/2026	MY51210133
Agilent	N9030A	3Hz-44GHz PXA Signal Analyzer	9/15/2025	Annual	9/15/2026	MY49430494
Rohde & Schwarz	ENV216	Two-Line V-Network	3/21/2025	Biennial	3/21/2027	101380
ETS Lindgren	3117	1-18 GHz DRG Horn (Medium)	6/4/2025	Biennial	6/4/2027	125518
Rohde & Schwarz	TC-TA18	Cross Polarized Vivaldi Test Antenna	4/15/2024	Biennial	4/15/2026	101058
Sunol	JB5	Bi-Log Antenna (30M - 5GHz)	9/11/2024	Biennial	9/11/2026	A051107
Sunol	JB6	Bi-Log Antenna (30M - 6GHz)	3/24/2025	Biennial	3/24/2027	A082816
Keysight Technologies	N9030A	PXA Signal Analyzer (44GHz)	6/6/2025	Annual	6/6/2026	MY52350166
Keysight Technologies	N9020A	MXA Signal Analyzer	5/7/2025	Annual	5/7/2026	US46470561
Keysight Technologies	N9020A	MXA Signal Analyzer	6/4/2025	Annual	6/4/2026	MY54500644
EMCO	3116	Horn Antenna (18-40GHz)	7/5/2024	Biennial	7/5/2026	9203-2178
Sunol Sciences	DRH-118	Horn Antenna (1-18GHz)	3/19/2025	Biennial	3/19/2027	A102416-2
Anritsu	MA24408A	Microwave Peak Power Sensor	5/30/2025	Annual	5/30/2026	11675
Anritsu	MA24406A	Microwave Peak Power Sensor	5/30/2025	Annual	5/30/2026	11240

Table 6-1. Annual Test Equipment Calibration Schedule

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.

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

Table 6-2. WL25-1 Conducted Cable Set Components

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

Table 6-3. WL40-1 Conducted Cable Set Components

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

Table 6-4. ETS-001 EMC Cable and Switch System Components

Component	Serial Number
MiniCircuits Cable CBL-0.5M-SMNM+	47261
Micro-Coax Utiflex Cable UFB311A-Q-3346-50U50U MFR 64639	231978-001
Micro-Coax Utiflex Cable UFB311A-1-0629-50U50U MFR 64639	231986-002
MegaPhase Cable NC29-N1N1-324	19046401 001
MegaPhase Flex Cable 10511-1	15044701-006
Micro-Coas Utiflex Cable UFB311A-Q-3446-50U50U MFR 64639	231978-002
Micro-Coas Utiflex Cable UFB311A-1-0629-50U50U MFR 64639	231986-001
Micro-Coas Utiflex Cable UFB142A-0-0659-50U50U MFR 64639	232069-001
Rohde & Schwarz SF Unit	102138

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

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

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7.0 TEST RESULTS

7.1 Summary

Company Name: Microsoft Corporation
 FCC ID: C3K2085
 IC: 3048A-2085
 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)(12)	RSS-Gen [6.12]	Maximum Conducted Output Power	N/A	CONDUCTED	PASS	Section 7.3
15.407(a)(7)	RSS-Gen [6.7, RSS-248 [4.5.5]	Maximum Radiated Output Power (SP)	< 30dBm over the frequency band of operation		PASS	Section 7.3
2.1049, 15.407(a)(11)	RSS-248 [4.4]	Occupied Bandwidth/ 26dB Bandwidth	99% of the occupied bandwidth of any channel must be contained within each of its respective U-NII sub bands. The maximum transmitter channel bandwidth for U-NII devices in the 5.925-7.125 GHz band is 320 megahertz.		PASS	Section 7.2
15.407(a)(7)	RSS-248 [4.5.5]	Maximum Power Spectral Density (SP)	< 17dBm/MHz e.i.r.p.		PASS	Section 7.4
15.407(a)(7)	RSS-248 [4.5.5(c)]	Power Reduction Verification for standard client device	EUT must limit its power to no more than 6 dB below its associated standard power access point's authorized transmit power		PASS	Section 7.7
15.407(b)(7)	RSS-248 [4.6.2]	In-Band Emissions	EUT must meet the limits detailed in RSS-248 [4.6.2]		PASS	Section 7.5
15.407(d)(6)	RSS-248 [4.7.2]	Contention Based Protocol	EUT must detect AWGN signal with 90% (or better) certainty		PASS	Section 7.6
15.407(b)(6)	RSS-248 [4.6.2]	Undesirable Emissions	< -27dBm/MHz e.i.r.p. outside of the 5.925 – 7.125GHz band	RADIATED	PASS	Section 7.8
15.205, 15.209	RSS-Gen [8.9]	General Field Strength Limits (Restricted Bands and Radiated Emission Limits)	Emissions shall comply with RSS-Gen (8.9) limits		PASS	Section 7.8
15.407(b)(9)	RSS-Gen [8.8]	AC Conducted Emissions (150kHz – 30MHz)	< RSS-Gen [8.8] limits	LINE CONDUCTED	PASS	Section 7.9

Table 7-1. Summary of Test Results

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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) The analyzer plots shown in this section were all taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables and attenuators used as part of the system to connect the EUT to the analyzer at all frequencies of interest.
- 3) All antenna port conducted emissions testing was performed on a test bench with the antenna port of the EUT connected to the spectrum analyzer through calibrated cables and attenuators.
- 4) Per RSS-248 [4.5.5], a device operating under the control of a standard power access point in 5.925 - 6.875 GHz bands must not have the maximum power spectral density exceed 17 dBm/MHz e.i.r.p., must limit the maximum e.i.r.p. over the frequency band of operation does not exceed 30 dBm, and must limit its power to no more than 6 dB below its associated standard power access point's authorized transmit power. Compliance to this clause is addressed in Dual Client PRV Supplemental Test Report.
- 5) For conducted spurious emissions, automated test software was used to measure emissions and capture the corresponding plots necessary to show compliance. The measurement software utilized is Element "EST," Version 1.2.1.
- 6) For radiated band edge, automated test software was used to measure emissions and capture the corresponding plots necessary to show compliance. The measurement software utilized is Element "Chamber Automation," Version 1.6.1.

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7.2 26dB Bandwidth Measurement

Test Overview and Limit

The bandwidth at 26dB down from the highest in-band spectral density is measured with a spectrum analyzer connected to the antenna terminal while the EUT is operating at its maximum duty cycle, at its maximum power control level, as defined in ANSI C63.10-2013, and at the appropriate frequencies. The spectrum analyzer's bandwidth measurement function is configured to measure the 26dB bandwidth.

Test Procedure Used

ANSI C63.10-2013 – Section 12.4

Test Settings

1. The signal analyzers' automatic bandwidth measurement capability was used to perform the 26dB bandwidth measurement. The "X" dB bandwidth parameter was set to $X = 26$. The automatic bandwidth measurement function also has the capability of simultaneously measuring the 99% occupied bandwidth. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
2. RBW = approximately 1% of the emission bandwidth
3. $VBW \geq 3 \times RBW$
4. Detector = Peak
5. Trace mode = max hold

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

All cases were investigated; a subset of the taken plots were included to represent relevant settings and measurements.

In this section, the bandwidth data table (Table 7-2) includes mainly the 26dB bandwidth measurements. In case of 320MHz operation, an occupied bandwidth measurement was included in the table to demonstrate compliance. Thus, all measurements in the tables are 26dB bandwidth measurements except for the 320MHz bandwidth cases which are occupied bandwidth measurements.

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	Frequency [MHz]	Channel	802.11 MODE	Antenna-1 26dB Bandwidth [MHz]	Antenna-2 26dB Bandwidth [MHz]	Antenna-1 Occupied Bandwidth [MHz]	Antenna-2 Occupied Bandwidth [MHz]
Band 5	5935	2	a	21.67	21.76	17.06	17.02
	6175	45	a	21.89	22.11	17.05	17.09
	6415	93	a	22.39	22.10	17.05	17.05
	5935	2	be (20MHz)	22.11	23.11	19.17	19.16
	6175	45	be (20MHz)	22.37	23.42	19.21	19.19
	6415	93	be (20MHz)	22.75	23.24	19.18	19.20
	5695	3	be (40MHz)	45.59	44.56	38.30	38.32
	6165	43	be (40MHz)	45.56	45.43	38.49	38.37
	6405	91	be (40MHz)	44.76	44.55	38.41	38.34
	5985	7	be (80MHz)	92.96	91.45	78.61	78.51
	6145	39	be (80MHz)	91.48	90.39	78.59	78.40
	6385	87	be (80MHz)	90.69	89.63	78.69	78.19
	6025	15	be (160MHz)	178.04	174.29	157.96	157.19
	6185	47	be (160MHz)	176.06	173.56	157.65	157.38
	6345	79	be (160MHz)	176.75	174.25	157.89	157.24
Band 6	6105	31	be (320MHz)	335.70	333.20	314.90	314.93
	6265	63	be (320MHz)	333.30	333.50	314.78	314.81
	6435	97	a	21.99	21.95	17.09	17.09
	6475	105	a	21.81	22.26	17.06	17.08
	6515	113	a	22.50	22.37	17.04	17.08
	6435	97	be (20MHz)	22.66	22.65	19.15	19.12
	6475	105	be (20MHz)	22.68	22.27	19.21	19.11
	6515	113	be (20MHz)	22.52	22.98	19.21	19.23
	6445	99	be (40MHz)	45.03	44.38	38.51	38.32
	6485	107	be (40MHz)	44.93	44.64	38.40	38.38
Band 5/6/7	6525	115	be (40MHz)	44.95	44.20	38.49	38.37
	6465	103	be (80MHz)	90.82	90.56	78.46	78.50
	6505	111	be (160MHz)	179.41	174.53	157.92	157.69
	6425	95	be (320MHz)	334.39	332.78	314.70	314.69
	6535	117	a	21.92	22.03	17.22	16.92
	6695	149	a	22.41	21.66	17.24	16.90
	6875	185	a	22.35	21.60	17.22	16.90
	6535	117	be (20MHz)	22.61	23.21	19.15	19.16
	6695	149	be (20MHz)	22.78	22.83	19.15	19.16
	6875	185	be (20MHz)	22.61	23.09	19.22	19.23
Band 7	6565	123	be (40MHz)	45.45	44.71	38.31	38.28
	6725	155	be (40MHz)	45.29	44.50	38.44	38.38
	6885	179	be (40MHz)	45.44	44.24	38.49	38.41
	6545	119	be (80MHz)	91.08	89.60	78.15	78.16
	6705	151	be (80MHz)	91.39	91.91	78.51	78.32
	6865	183	be (80MHz)	91.94	89.43	78.24	78.25
	6665	143	be (160MHz)	178.68	173.53	158.01	157.68
	6825	175	be (160MHz)	177.14	173.31	157.52	157.25
	6585	127	be (320MHz)	335.61	333.24	315.45	314.90
	6745	159	be (320MHz)	333.61	331.13	314.44	313.83
Band 6/7	6895	189	a	22.69	21.35	17.29	16.91
	6995	209	a	22.34	21.75	17.26	16.95
	7115	233	a	23.17	21.45	17.29	16.93
	6895	189	be (20MHz)	22.47	22.85	19.18	19.20
	6995	209	be (20MHz)	22.13	22.41	19.23	19.17
	7115	233	be (20MHz)	22.48	23.42	19.20	19.19
	6925	187	be (40MHz)	45.38	45.33	38.40	38.33
	7005	211	be (40MHz)	45.85	44.19	38.45	38.40
	7085	227	be (40MHz)	45.13	44.62	38.45	38.41
	6945	199	be (80MHz)	90.49	88.93	78.32	78.10
Band 7/8	7025	215	be (80MHz)	91.31	90.08	78.56	78.22
	6985	207	be (160MHz)	175.48	176.63	157.79	157.52
	6905	191	be (320MHz)	330.53	333.04	313.83	314.08

Table 7-2. Bandwidth Test Results – LPI

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE		Approved by: Technical Manager
Test Report S/N: 1M2511200095-08-R2.C3K	Test Dates: 12/16/2025 - 02/17/2026	EUT Type: Portable Computing Device	Page 21 of 140

	Frequency [MHz]	Channel	802.11 MODE	Antenna-1 26dB Bandwidth [MHz]	Antenna-2 26dB Bandwidth [MHz]	Antenna-1 Occupied Bandwidth [MHz]	Antenna-2 Occupied Bandwidth [MHz]	
Band 5	5935	2	a	22.20	22.32	17.22	16.93	
	6175	45	a	21.89	21.13	17.05	16.89	
	6415	93	a	22.41	21.65	17.23	16.92	
	5935	2	be (20MHz)	22.49	23.16	19.26	19.16	
	6175	45	be (20MHz)	18.80	18.34	17.10	16.99	
	6415	93	be (20MHz)	22.70	23.50	19.22	19.17	
	5695	3	be (40MHz)	45.20	45.28	38.38	38.48	
	6165	43	be (40MHz)	44.35	45.37	38.46	38.41	
	6405	91	be (40MHz)	46.14	44.48	38.46	38.48	
	5985	7	be (80MHz)	92.66	92.85	78.50	78.54	
	6145	39	be (80MHz)	92.14	89.16	78.47	78.60	
	6385	87	be (80MHz)	92.17	91.06	78.55	78.73	
	6025	15	be (160MHz)	176.71	177.39	157.70	157.86	
	6185	47	be (160MHz)	176.72	176.92	157.81	158.13	
	6345	79	be (160MHz)	175.87	177.31	158.14	157.88	
	6105	31	be (320MHz)	338.20	332.88	315.77	315.36	*
Band 7	6265	63	be (320MHz)	333.20	334.31	314.77	315.05	*
	6535	117	a	22.21	22.08	17.20	16.89	
	6695	149	a	22.94	21.95	17.24	16.92	
	6855	181	a	22.41	21.40	17.26	16.92	
	6535	117	be (20MHz)	22.68	22.88	19.25	19.19	
	6695	149	be (20MHz)	22.41	23.35	19.21	19.24	
	6855	181	be (20MHz)	22.46	23.15	19.22	19.21	
	6565	123	be (40MHz)	44.70	44.36	38.45	38.43	
	6725	155	be (40MHz)	44.30	43.75	38.51	38.48	
	6885	179	be (40MHz)	68.89	44.56	38.84	38.64	
	6625	135	be (80MHz)	93.03	92.41	78.69	78.73	
	6705	151	be (80MHz)	93.21	91.07	78.46	78.80	
	6785	167	be (80MHz)	90.84	92.14	78.89	78.79	
	6665	143	be (160MHz)	179.08	177.42	158.44	157.98	
	6825	175	be (160MHz)	179.16	177.31	158.77	157.84	
Band 7/8	6745	159	be (320MHz)	332.94	331.81	314.94	315.05	*

Table 7-3. Bandwidth Test Results – SP

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE		Approved by: Technical Manager
Test Report S/N: 1M2511200095-08-R2.C3K	Test Dates: 12/16/2025 - 02/17/2026	EUT Type: Portable Computing Device	Page 22 of 140

	Frequency [MHz]	Channel	802.11 MODE	Puncture Size	Antenna-1 26dB Bandwidth [MHz]	Antenna-2 26dB Bandwidth [MHz]	Antenna-1 Occupied Bandwidth [MHz]	Antenna-2 Occupied Bandwidth [MHz]
Band 5	6145	39	be (80MHz)	20MHz	75.70	83.29	59.67	60.43
	6185	47	be (160MHz)	20MHz	171.76	172.07	139.71	139.42
	6185	47	be (160MHz)	40MHz	175.17	177.00	158.12	158.83
	6105	31	be (320MHz)	80MHz	268.19	295.52	236.59	236.51
	6105	31	be (320MHz)	120MHz	305.29	311.33	233.81	225.58
Band 6	6465	103	be (80MHz)	20MHz	73.22	86.11	59.43	60.67
	6505	111	be (160MHz)	20MHz	162.35	168.24	138.89	138.92
	6505	111	be (160MHz)	40MHz	151.82	172.01	119.30	119.59
Band 5/6/7	6425	95	be (320MHz)	40MHz	316.11	316.11	316.11	316.11
	6425	95	be (320MHz)	80MHz	236.27	236.73	236.27	236.73
	6425	95	be (320MHz)	120MHz	205.10	207.50	205.10	207.50
Band 7	6705	151	be (80MHz)	20MHz	85.53	83.09	59.70	60.61
	6665	143	be (160MHz)	20MHz	164.50	167.86	139.18	139.04
	6665	143	be (160MHz)	40MHz	173.03	174.60	158.44	158.33
Band 7/8	6745	159	be (320MHz)	40MHz	315.26	314.61	315.26	314.61
	6745	159	be (320MHz)	80MHz	236.67	236.74	236.67	236.74
	6745	159	be (320MHz)	120MHz	197.91	198.62	197.91	198.62
Band 8	7025	215	be (80MHz)	20MHz	83.44	83.57	59.75	60.56
	6985	207	be (160MHz)	20MHz	161.64	168.90	139.36	139.06
	6985	207	be (160MHz)	40MHz	175.80	176.81	158.81	158.64
Band 7/8	6905	191	be (320MHz)	40MHz	314.89	314.92	314.89	314.92
	6905	191	be (320MHz)	80MHz	236.03	237.31	236.03	237.31
	6905	191	be (320MHz)	120MHz	236.26	198.23	236.26	198.23

Table 7-4. Bandwidth Test Results – Punctured – LPI

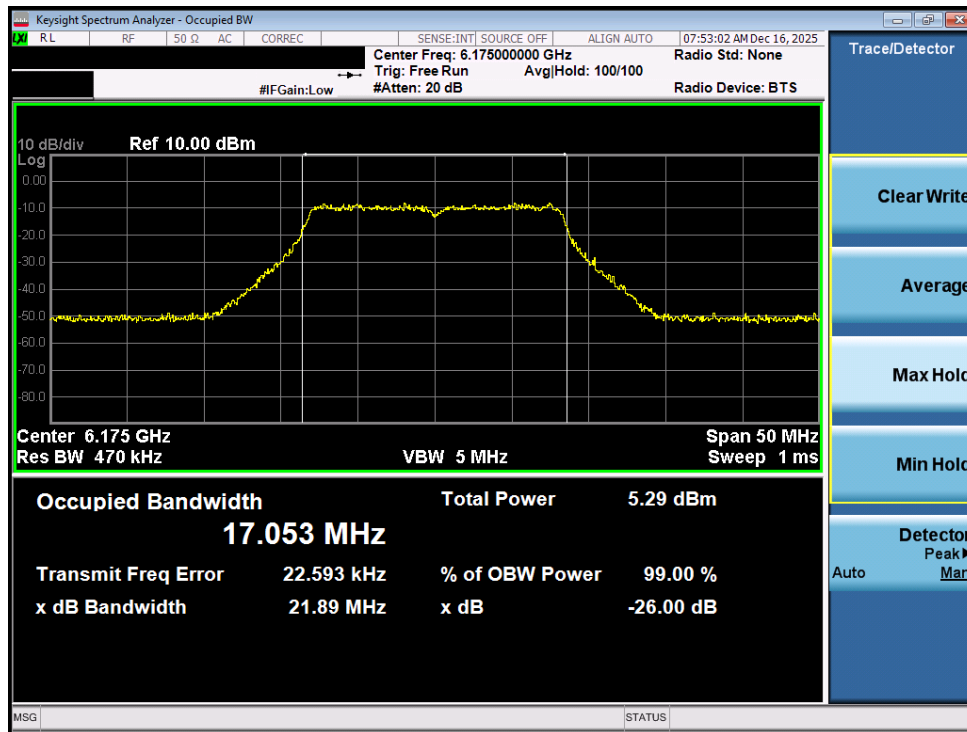
	Frequency [MHz]	Channel	802.11 MODE	Puncture Size	Antenna-1 26dB Bandwidth [MHz]	Antenna-2 26dB Bandwidth [MHz]	Antenna-1 Occupied Bandwidth [MHz]	Antenna-2 Occupied Bandwidth [MHz]
Band 5	6145	39	be (80MHz)	20MHz	90.88	92.23	78.64	79.15
	6185	47	be (160MHz)	20MHz	241.45	176.58	158.21	158.43
	6185	47	be (160MHz)	40MHz	227.27	232.61	159.58	159.28
	6105	31	be (320MHz)	80MHz	281.61	339.59	238.04	316.10
	6105	31	be (320MHz)	120MHz	296.36	277.72	238.25	237.85
Band 7	6705	151	be (80MHz)	20MHz	99.38	91.07	79.55	79.36
	6665	143	be (160MHz)	20MHz	376.98	247.96	160.82	159.26
	6665	143	be (160MHz)	40MHz	355.69	348.43	192.88	162.76
Band 7/8	6745	159	be (320MHz)	80MHz	334.92	334.34	316.50	315.72
	6745	159	be (320MHz)	120MHz	269.45	282.63	238.19	237.96

Table 7-5. Bandwidth Test Results – Punctured – SP

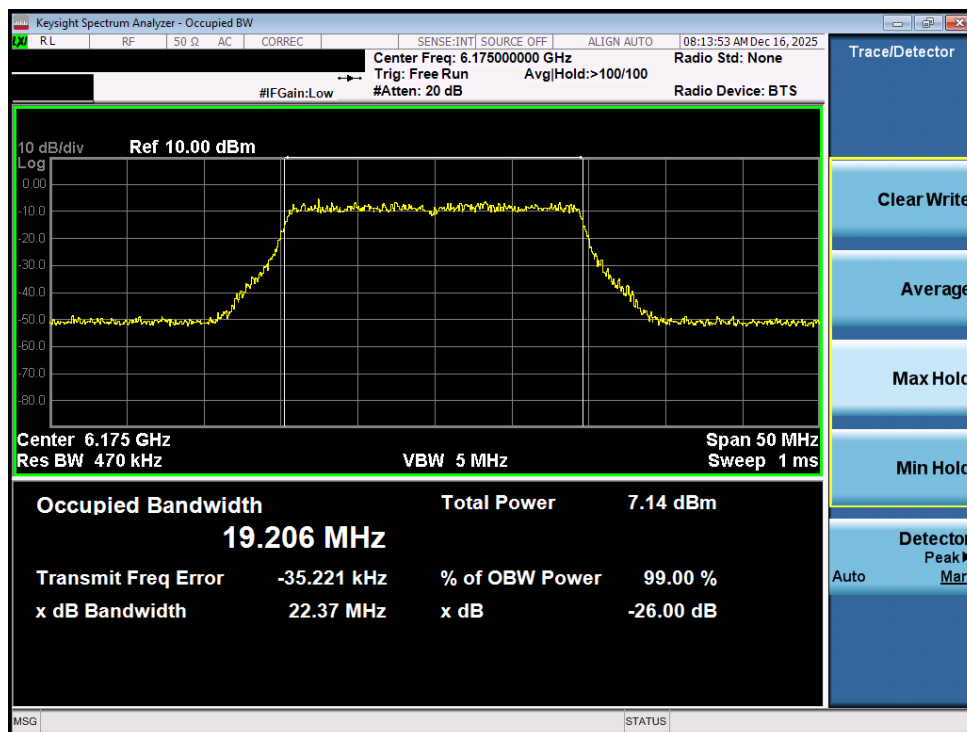
Note: *Occupied Bandwidth Measurement was used to demonstrate compliance.

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE		Approved by: Technical Manager
Test Report S/N: 1M2511200095-08-R2.C3K	Test Dates: 12/16/2025 - 02/17/2026	EUT Type: Portable Computing Device	Page 23 of 140

MIMO Antenna-1 26 dB Bandwidth Measurements - (UNII Band 5) - LPI

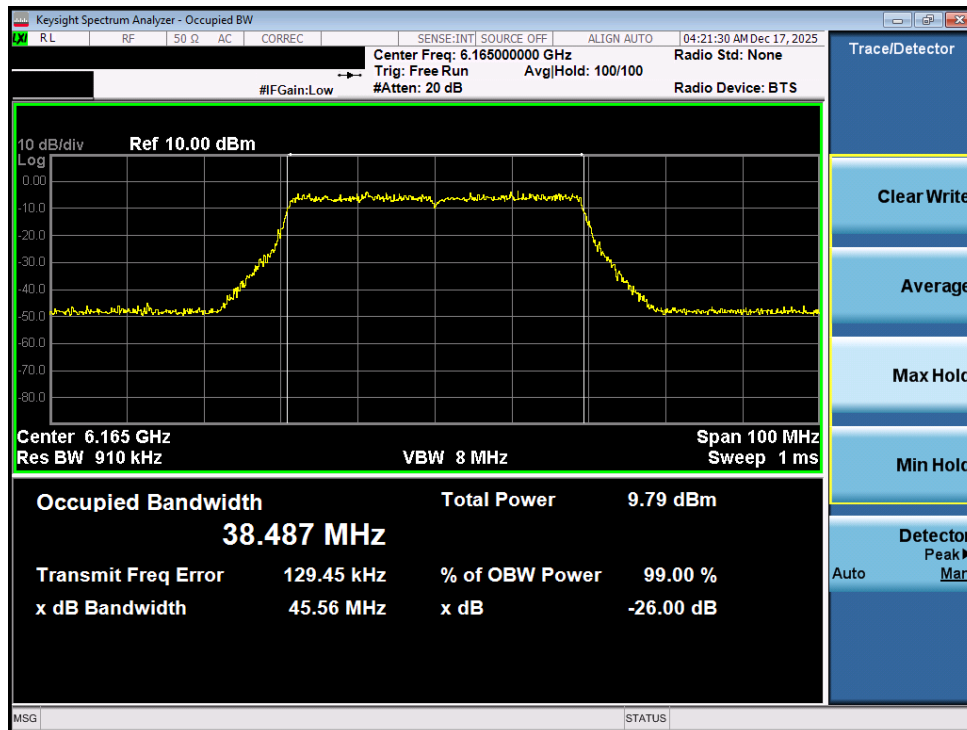


Plot 7-1. 26dB Bandwidth Plot MIMO ANT1 (20MHz 802.11a (UNII Band 5) – Ch. 45)

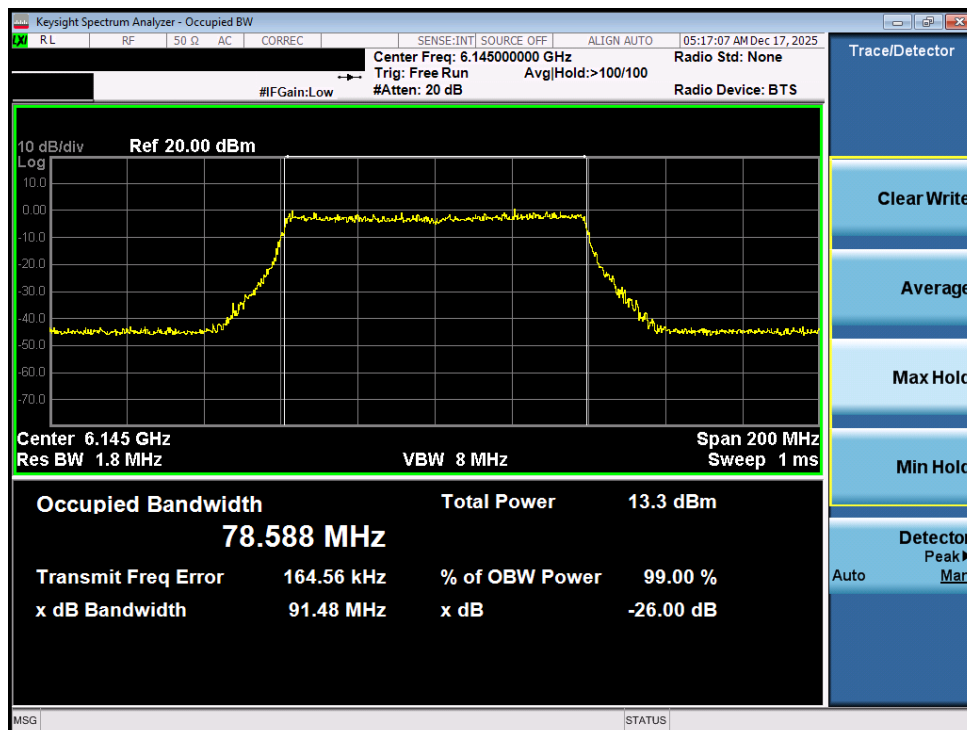


Plot 7-2. 26dB Bandwidth Plot MIMO ANT1 (20MHz 802.11ax/be (UNII Band 5) – Ch. 45)

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE		Approved by: Technical Manager
Test Report S/N: 1M2511200095-08-R2.C3K	Test Dates: 12/16/2025 - 02/17/2026	EUT Type: Portable Computing Device	Page 24 of 140

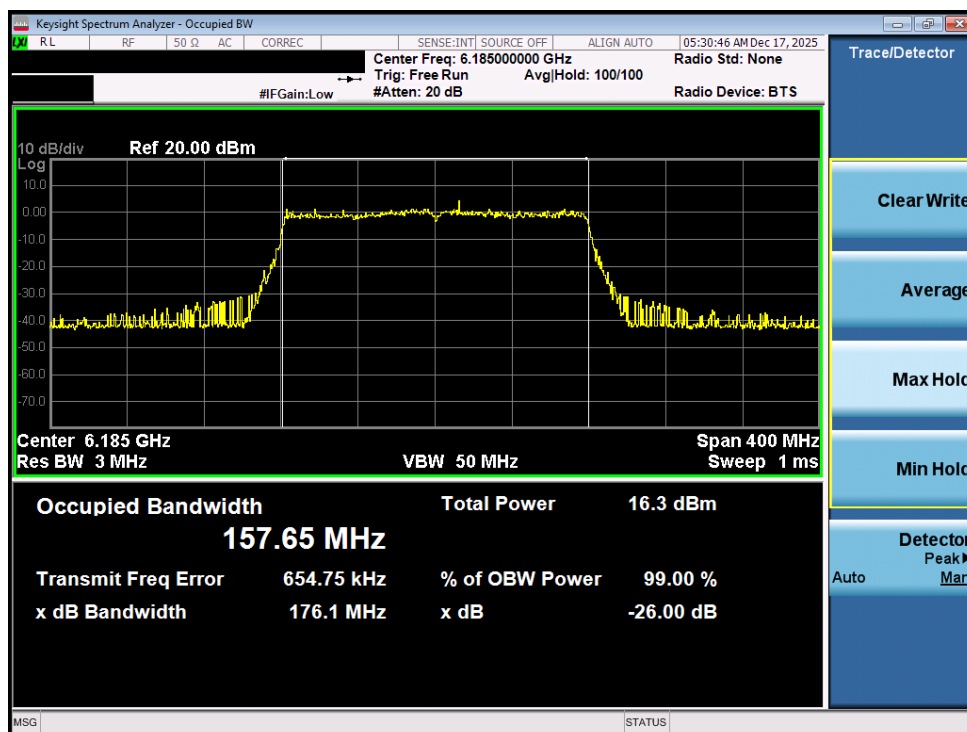


Plot 7-3. 26dB Bandwidth Plot MIMO ANT1 (40MHz 802.11ax/be (UNII Band 5) – Ch. 43)

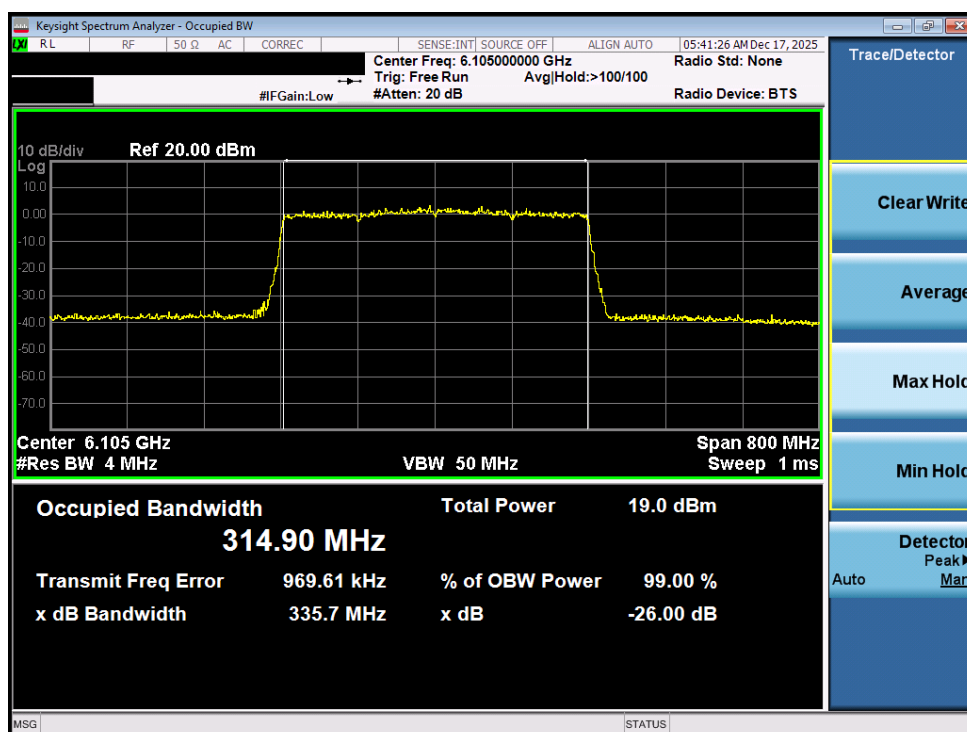


Plot 7-4. 26dB Bandwidth Plot MIMO ANT1 (80MHz 802.11ax/be (UNII Band 5) – Ch. 39)

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE		Approved by: Technical Manager
Test Report S/N: 1M2511200095-08-R2.C3K	Test Dates: 12/16/2025 - 02/17/2026	EUT Type: Portable Computing Device	Page 25 of 140



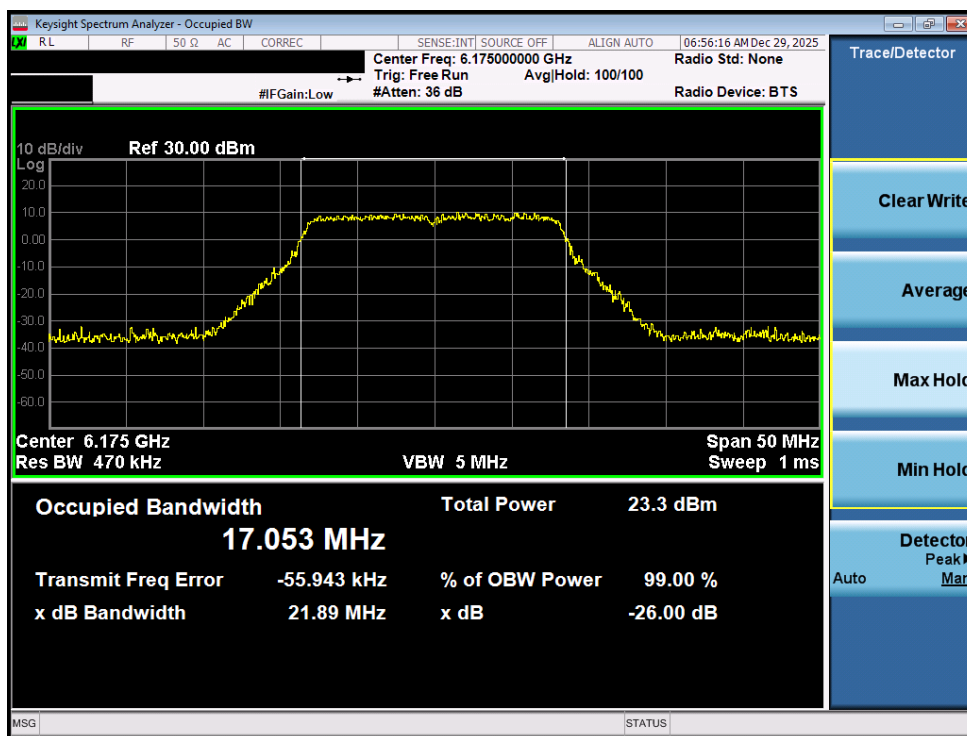
Plot 7-5. 26dB Bandwidth Plot MIMO ANT1 (160MHz 802.11ax/be (UNII Band 5) – Ch. 47)



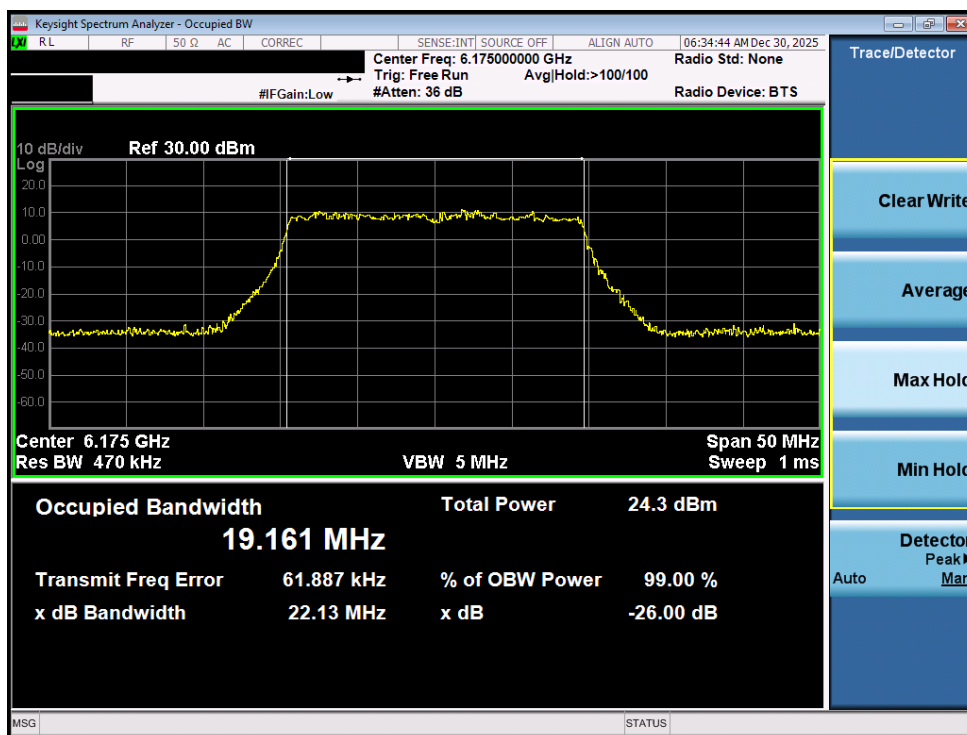
Plot 7-6. 26dB Bandwidth Plot MIMO ANT1 (320MHz 802.11ax/be (UNII Band 5) – Ch.31)

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE		Approved by: Technical Manager
Test Report S/N: 1M2511200095-08-R2.C3K	Test Dates: 12/16/2025 - 02/17/2026	EUT Type: Portable Computing Device	Page 26 of 140

MIMO Antenna-1 26 dB Bandwidth Measurements - (UNII Band 5) - SP

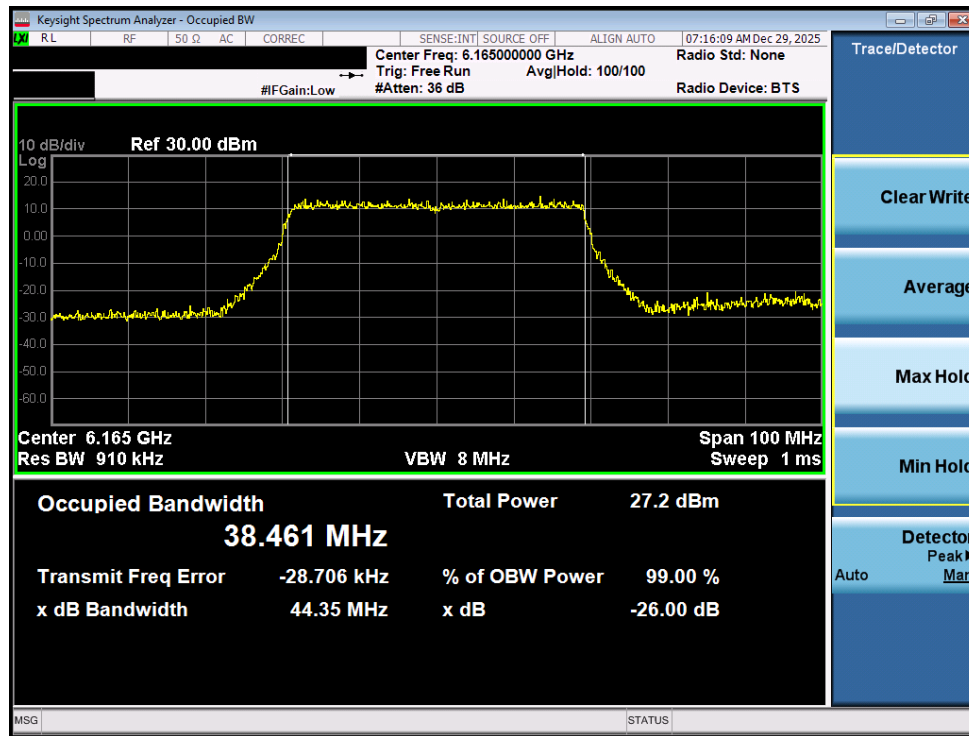


Plot 7-7. 26dB Bandwidth Plot MIMO ANT1 (20MHz 802.11a (UNII Band 5) – Ch. 45)

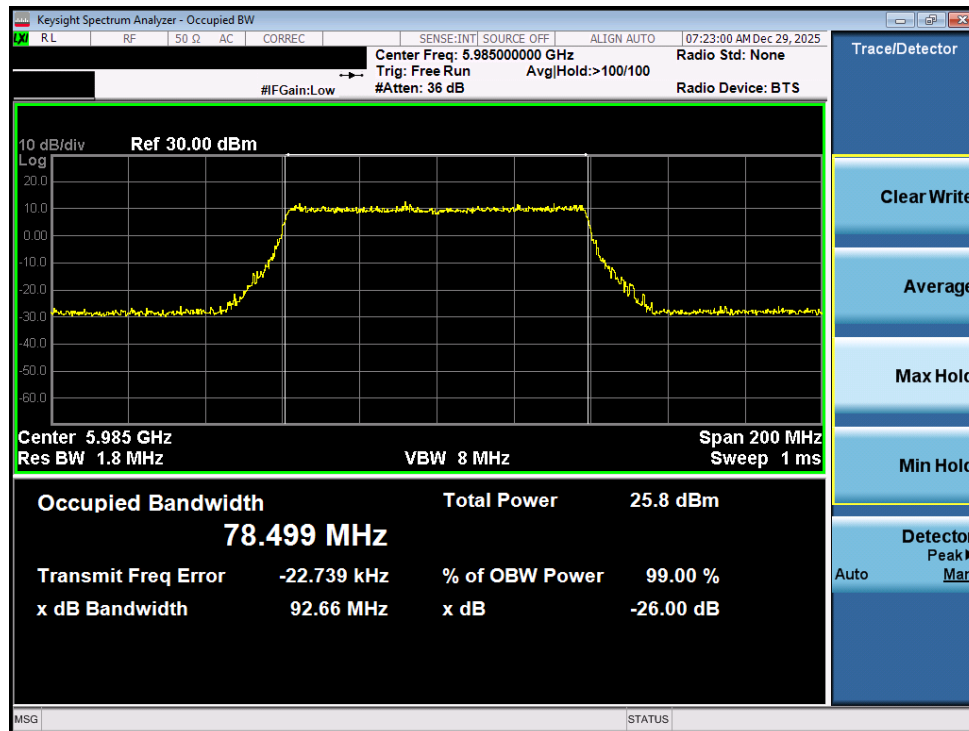


Plot 7-8. 26dB Bandwidth Plot MIMO ANT1 (20MHz 802.11ax/be (UNII Band 5) – Ch. 45)

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE		Approved by: Technical Manager
Test Report S/N: 1M2511200095-08-R2.C3K	Test Dates: 12/16/2025 - 02/17/2026	EUT Type: Portable Computing Device	Page 27 of 140

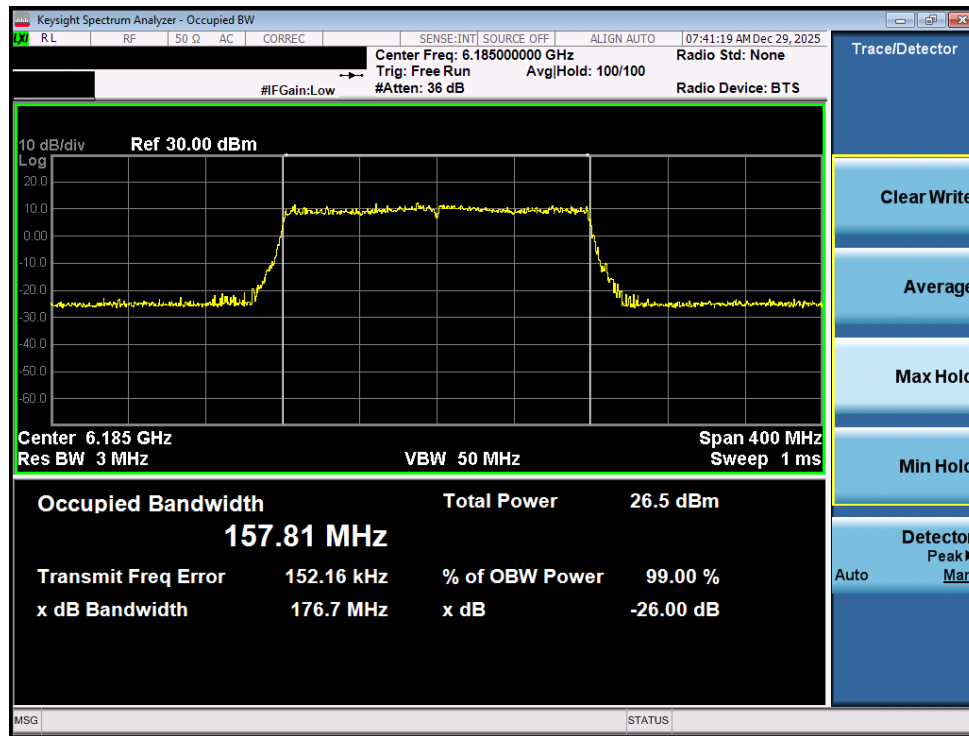


Plot 7-9. 26dB Bandwidth Plot MIMO ANT1 (40MHz 802.11ax/be (UNII Band 5) – Ch. 43)

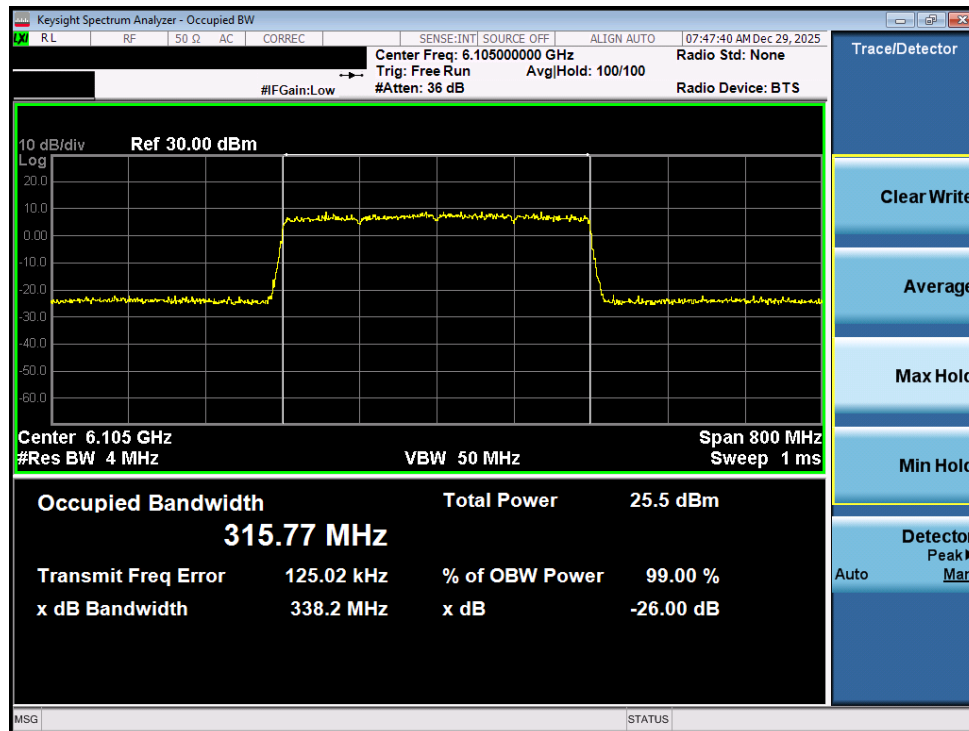


Plot 7-10. 26dB Bandwidth Plot MIMO ANT1 (80MHz 802.11ax/be (UNII Band 5) – Ch. 39)

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE		Approved by: Technical Manager
Test Report S/N: 1M2511200095-08-R2.C3K	Test Dates: 12/16/2025 - 02/17/2026	EUT Type: Portable Computing Device	Page 28 of 140



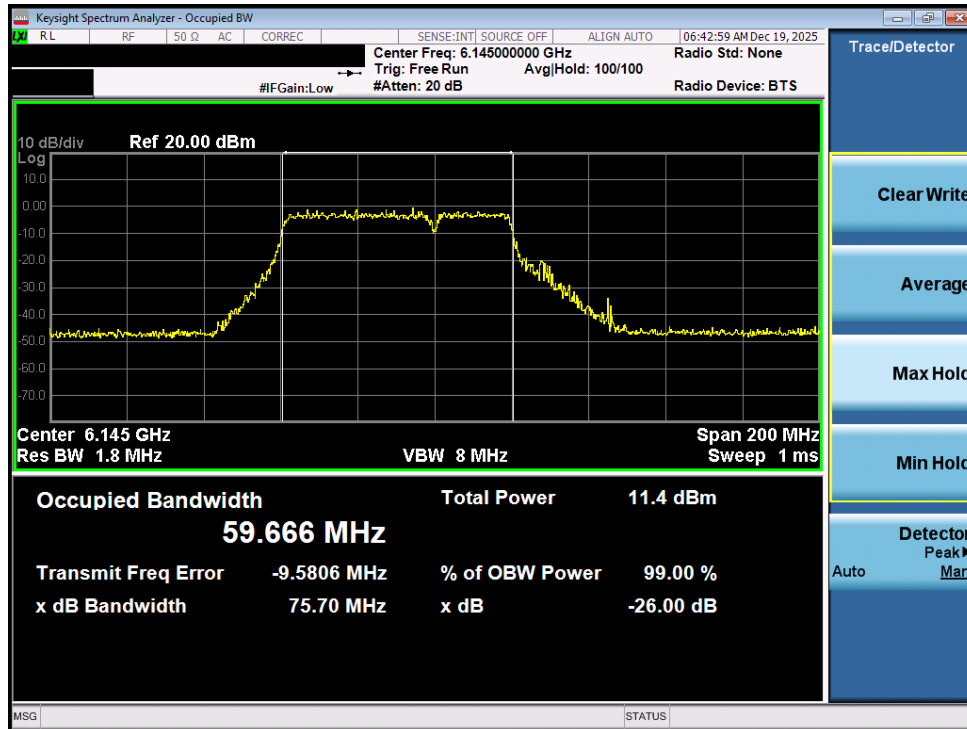
Plot 7-11. 26dB Bandwidth Plot MIMO ANT1 (160MHz 802.11ax/be (UNII Band 5) – Ch. 47)



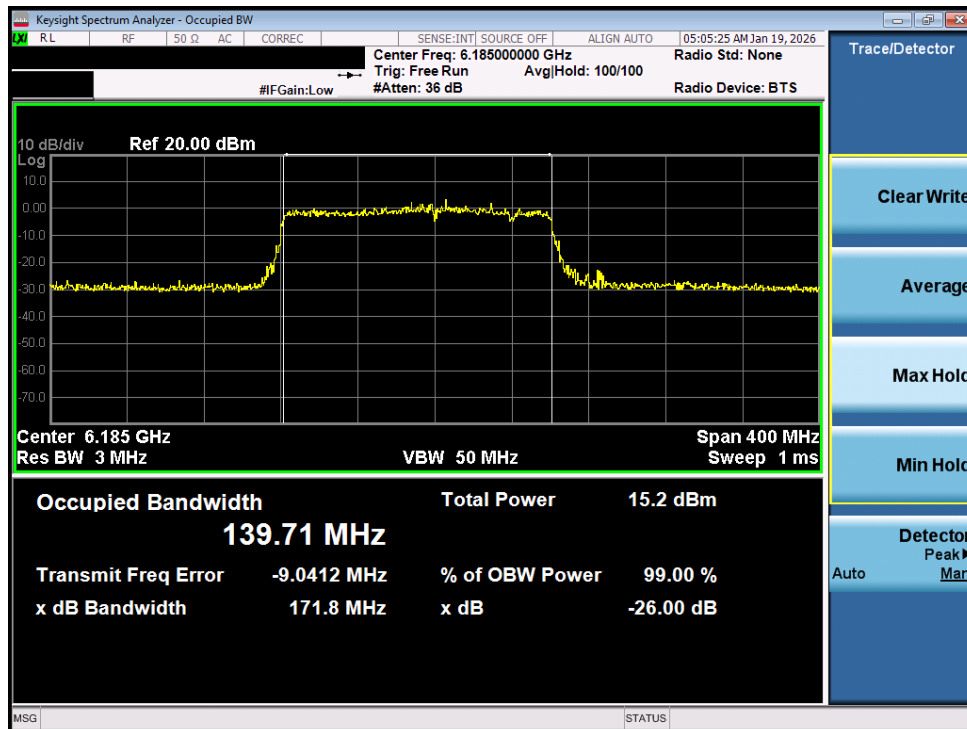
Plot 7-12. 26dB Bandwidth Plot MIMO ANT1 (320MHz 802.11ax/be (UNII Band 5) – Ch.31)

MIMO Antenna-1 26 dB Bandwidth Measurements - (UNII Band 5) - Punctured

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE		Approved by: Technical Manager
Test Report S/N: 1M2511200095-08-R2.C3K	Test Dates: 12/16/2025 - 02/17/2026	EUT Type: Portable Computing Device	Page 29 of 140

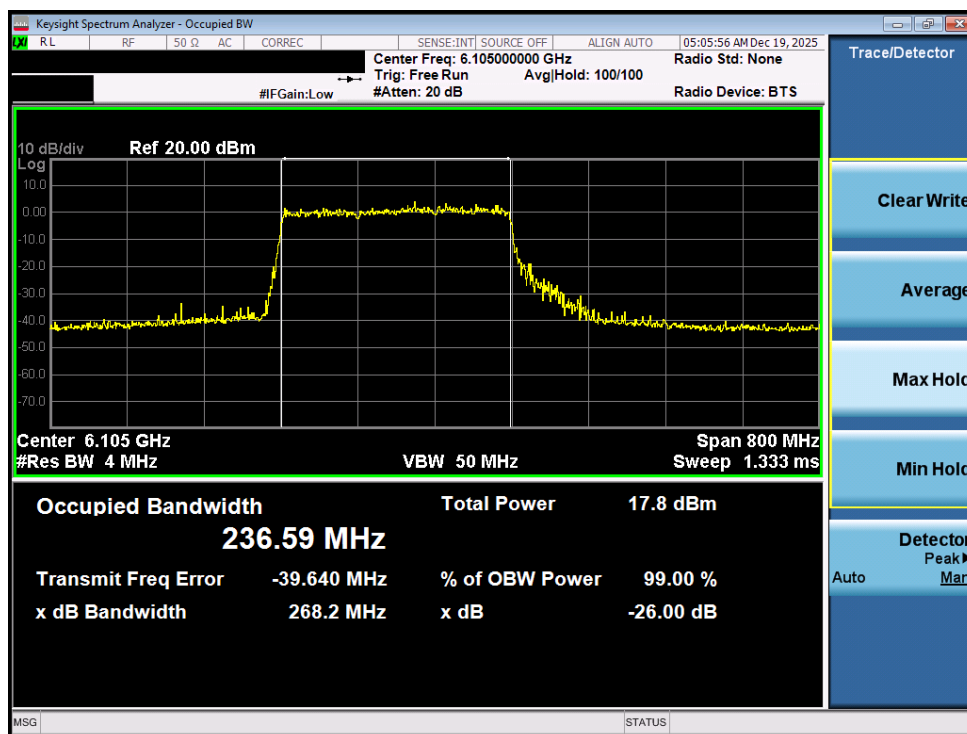


Plot 7-13. 26dB Bandwidth Plot MIMO ANT1 (80MHz 802.11be (UNII Band 5) – Ch. 30) - Punctured



Plot 7-14. 26dB Bandwidth Plot MIMO ANT1 (160MHz 802.11ax/be (UNII Band 5) – Ch. 47) - Punctured

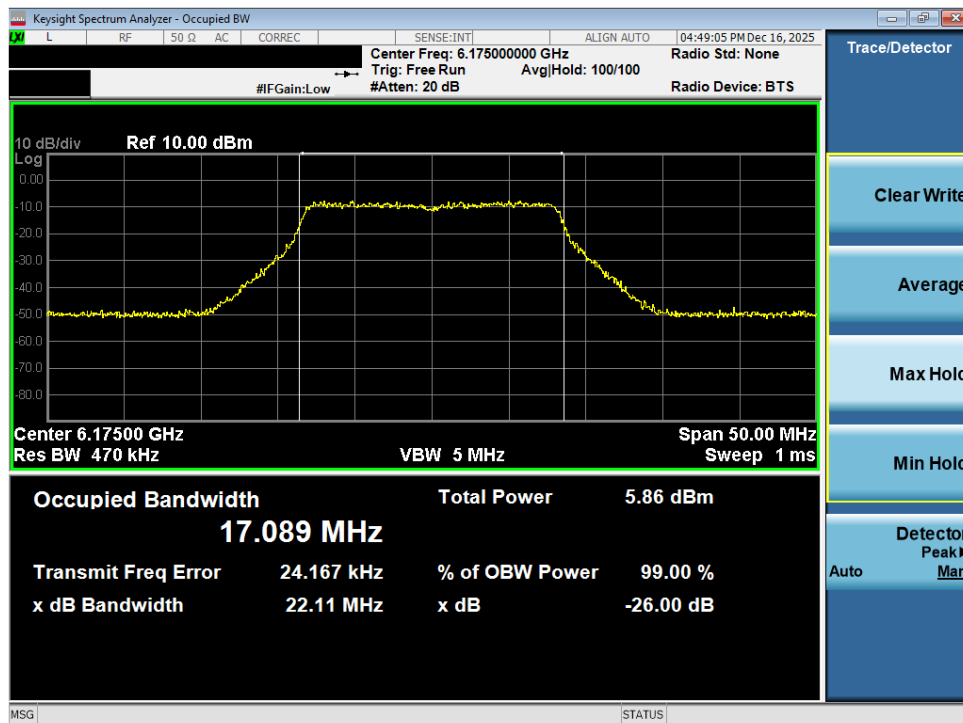
FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE		Approved by: Technical Manager
Test Report S/N: 1M2511200095-08-R2.C3K	Test Dates: 12/16/2025 - 02/17/2026	EUT Type: Portable Computing Device	Page 30 of 140



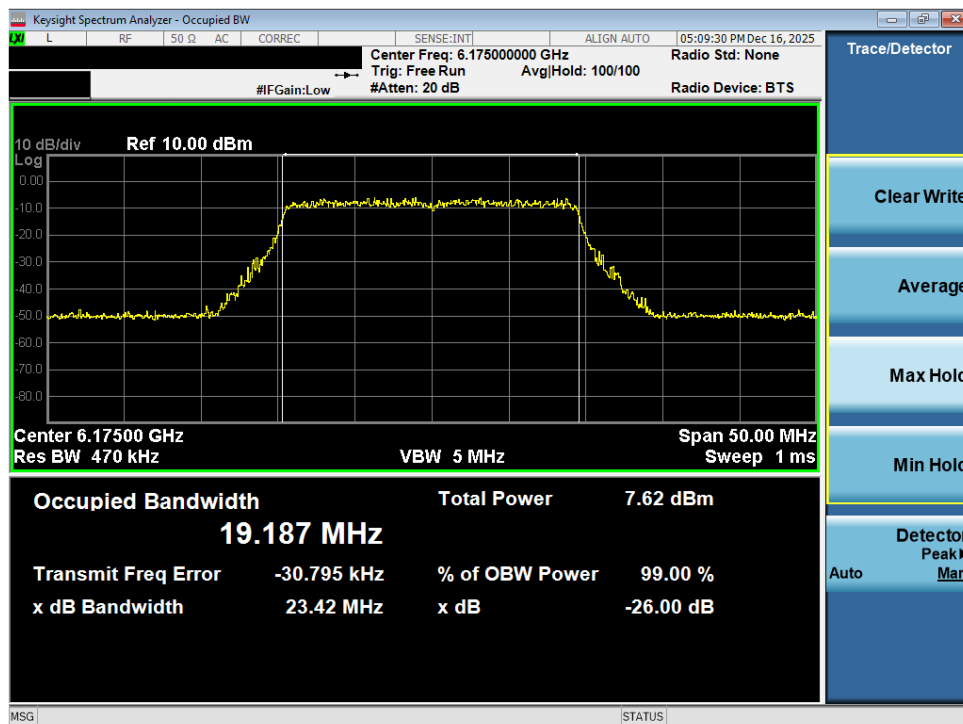
Plot 7-15. 26dB Bandwidth Plot MIMO ANT1 (320MHz 802.11ax/be (UNII Band 5) – Ch. 31) - Punctured

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE		Approved by: Technical Manager
Test Report S/N: 1M2511200095-08-R2.C3K	Test Dates: 12/16/2025 - 02/17/2026	EUT Type: Portable Computing Device	Page 31 of 140

MIMO Antenna-2 26 dB Bandwidth Measurements - (UNII Band 5) - LPI

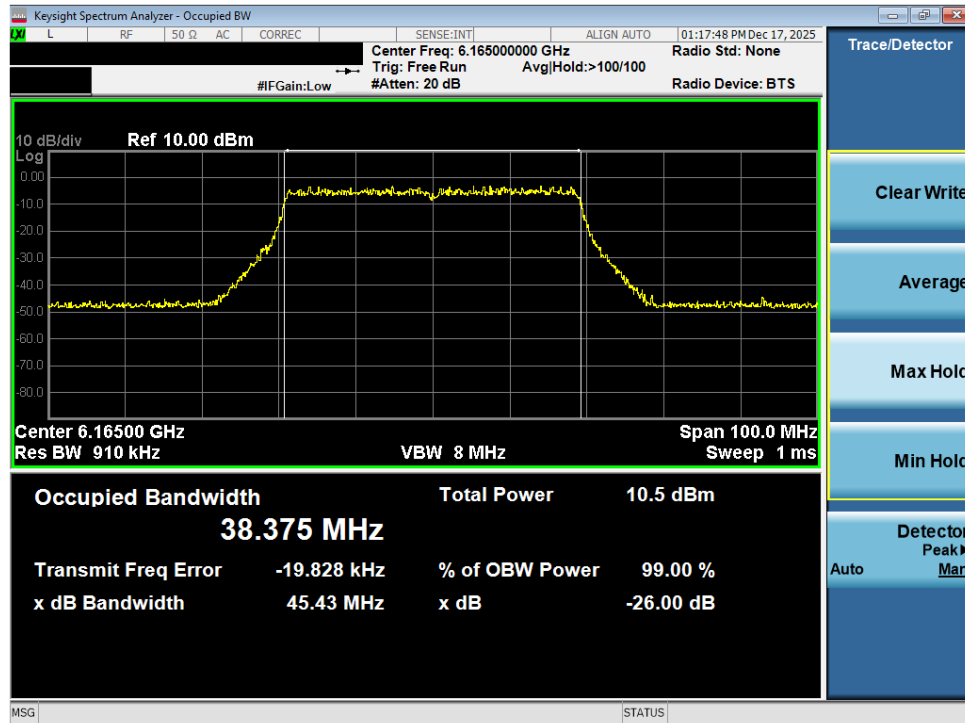


Plot 7-16. 26dB Bandwidth Plot MIMO ANT2 (20MHz 802.11a (UNII Band 5) – Ch. 45)

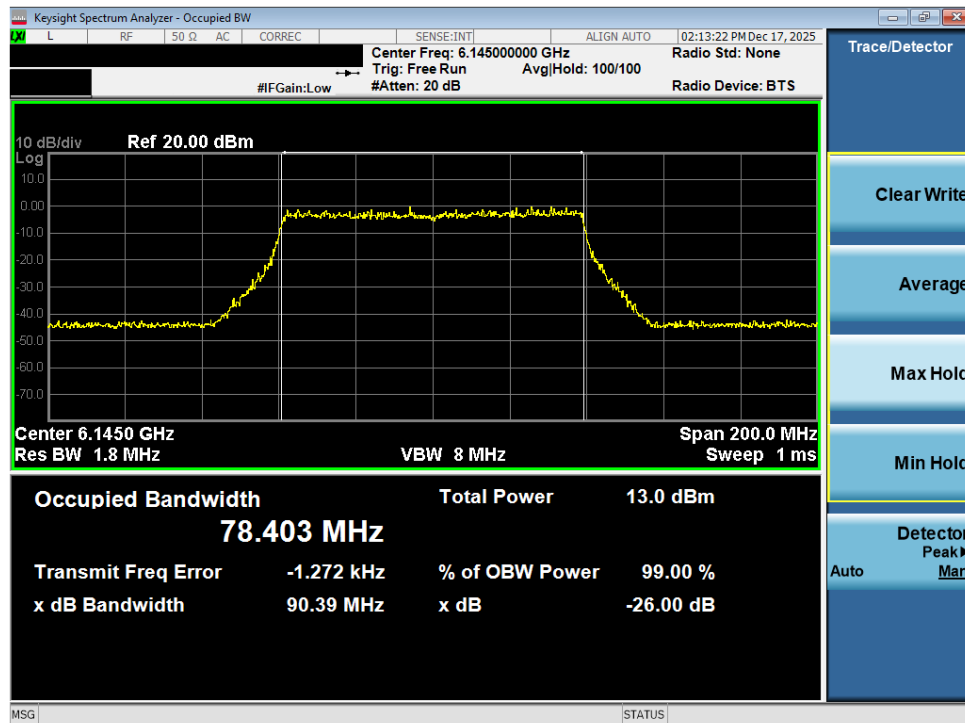


Plot 7-17. 26dB Bandwidth Plot MIMO ANT2 (20MHz 802.11ax/be (UNII Band 5) – Ch. 45)

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE		Approved by: Technical Manager
Test Report S/N: 1M2511200095-08-R2.C3K	Test Dates: 12/16/2025 - 02/17/2026	EUT Type: Portable Computing Device	Page 32 of 140

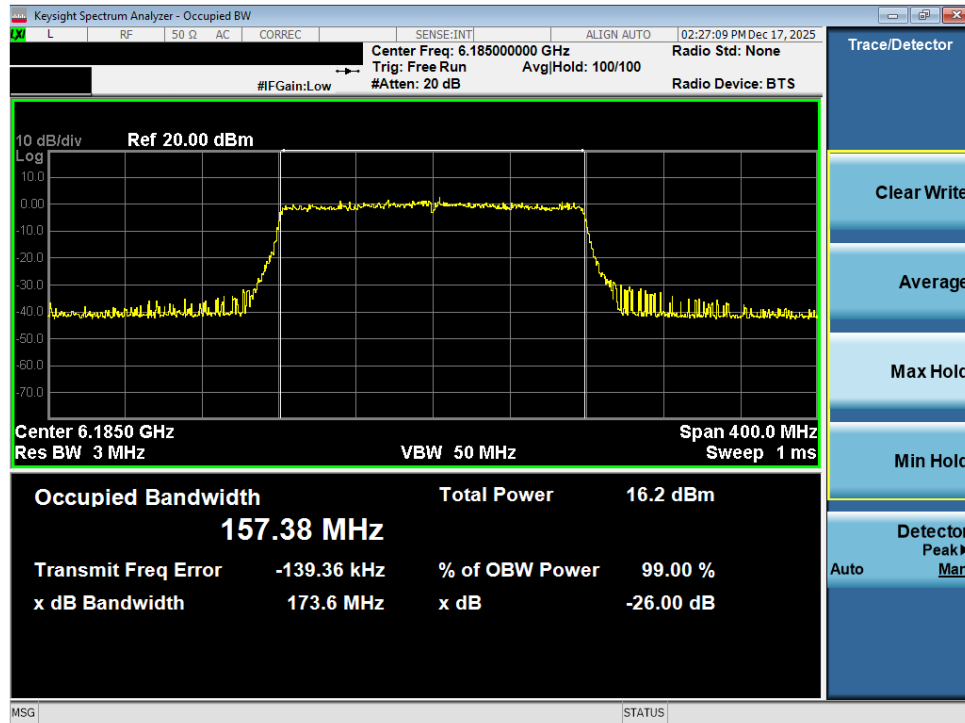


Plot 7-18. 26dB Bandwidth Plot MIMO ANT2 (40MHz 802.11ax/be (UNII Band 5) – Ch. 43)

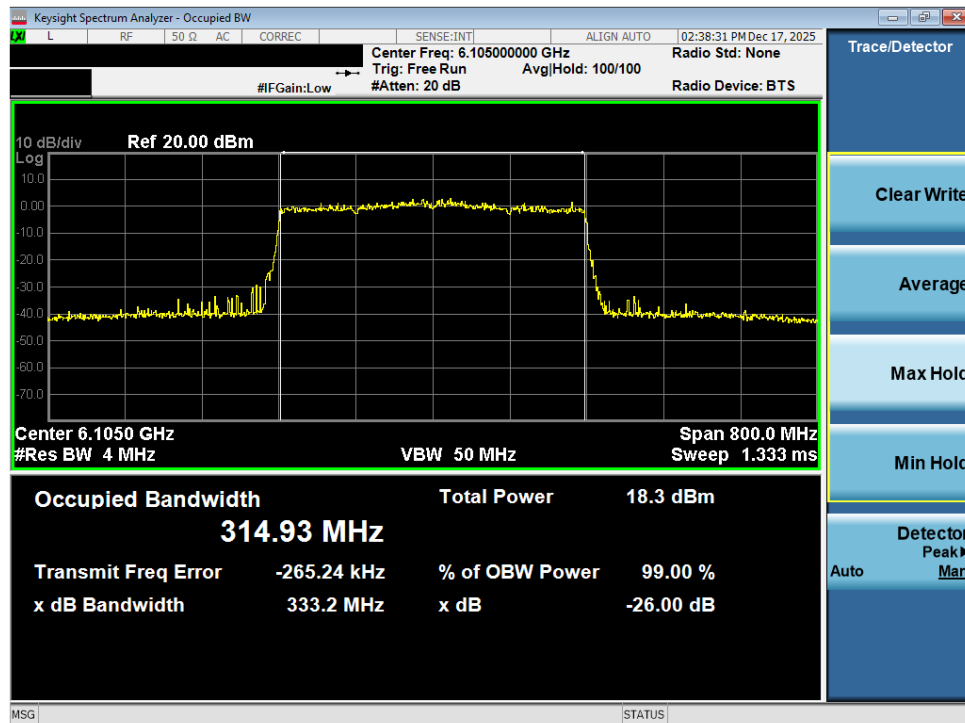


Plot 7-19. 26dB Bandwidth Plot MIMO ANT2 (80MHz 802.11ax/be (UNII Band 5) – Ch. 39)

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE		Approved by: Technical Manager
Test Report S/N: 1M2511200095-08-R2.C3K	Test Dates: 12/16/2025 - 02/17/2026	EUT Type: Portable Computing Device	Page 33 of 140



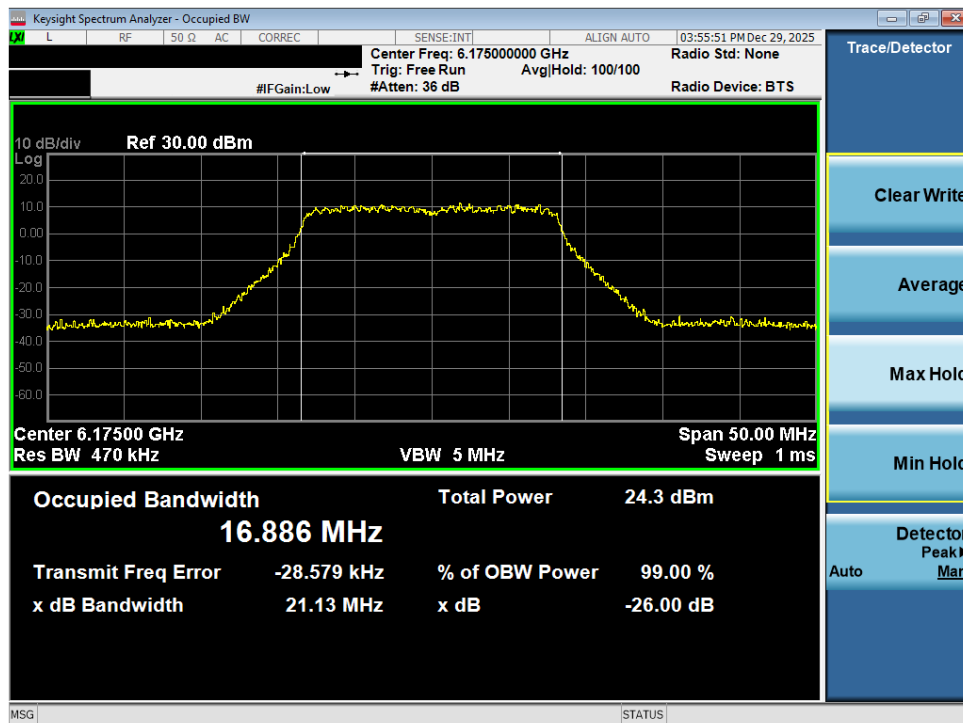
Plot 7-20. 26dB Bandwidth Plot MIMO ANT2 (160MHz 802.11ax/be (UNII Band 5) – Ch. 47)



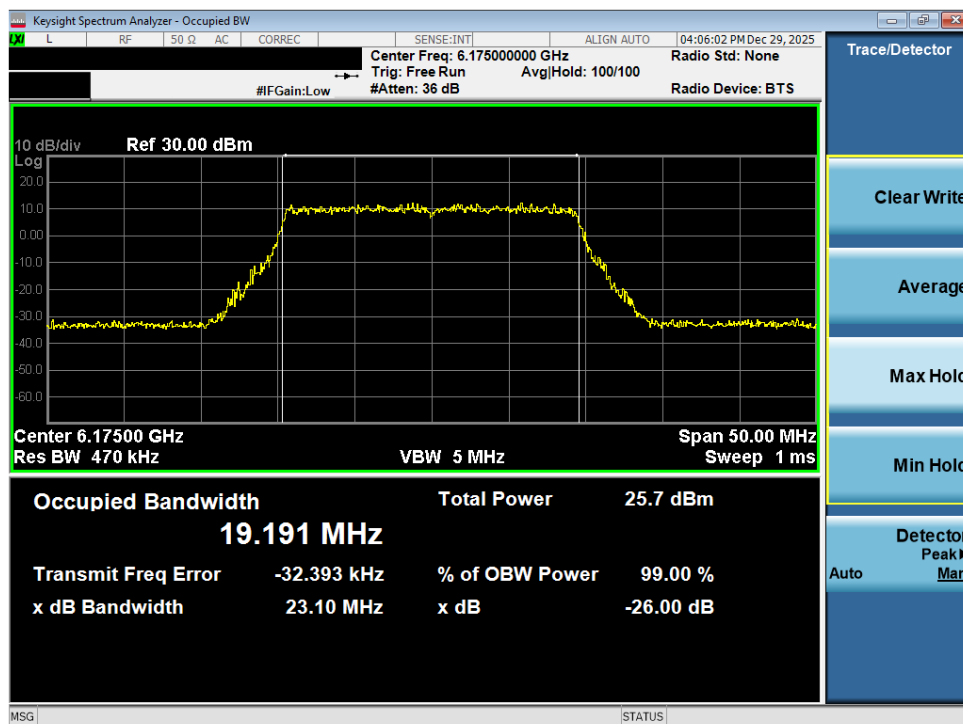
Plot 7-21. 26dB Bandwidth Plot MIMO ANT2 (320MHz 802.11ax/be (UNII Band 5) – Ch.31)

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE		Approved by: Technical Manager
Test Report S/N: 1M2511200095-08-R2.C3K	Test Dates: 12/16/2025 - 02/17/2026	EUT Type: Portable Computing Device	Page 34 of 140

MIMO Antenna-2 26 dB Bandwidth Measurements - (UNII Band 5) - SP

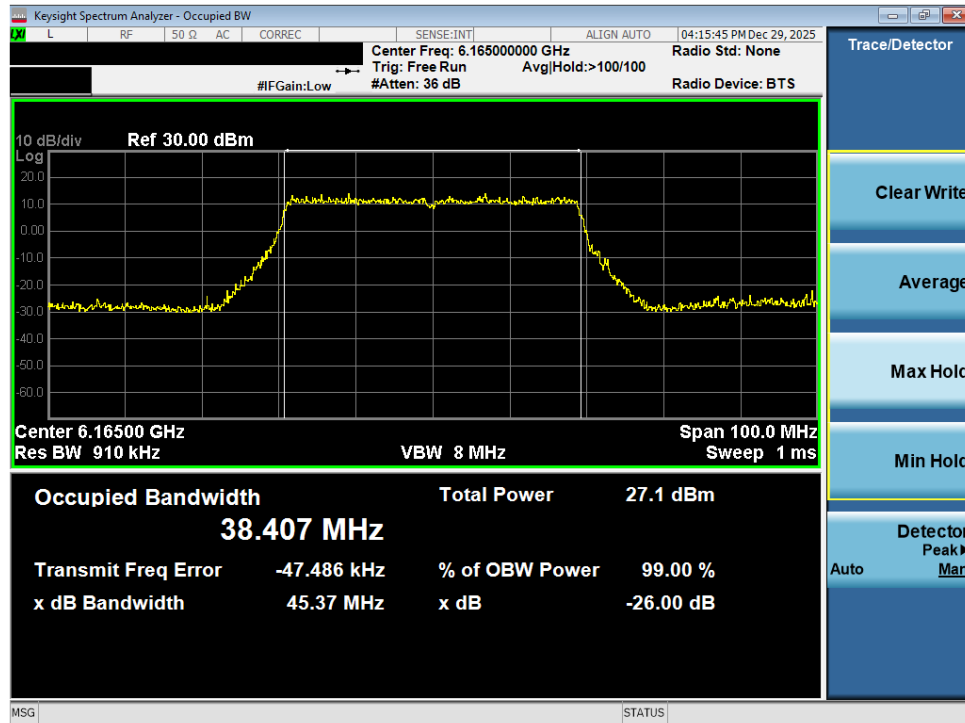


Plot 7-22. 26dB Bandwidth Plot MIMO ANT2 (20MHz 802.11a (UNII Band 5) – Ch. 45)

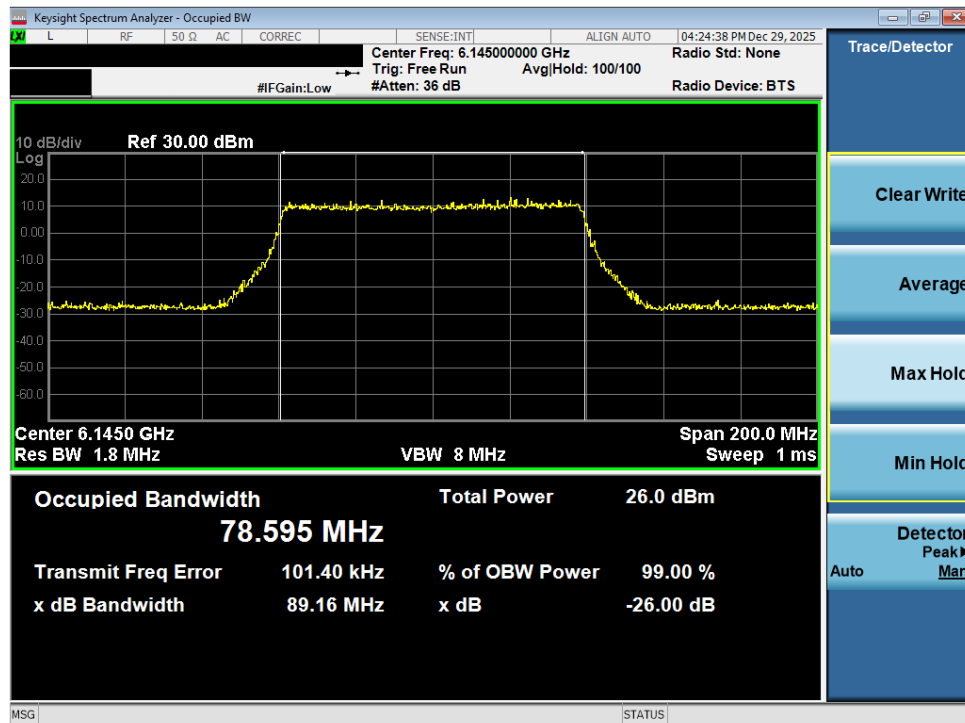


Plot 7-23. 26dB Bandwidth Plot MIMO ANT2 (20MHz 802.11ax/be (UNII Band 5) – Ch. 45)

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE		Approved by: Technical Manager
Test Report S/N: 1M2511200095-08-R2.C3K	Test Dates: 12/16/2025 - 02/17/2026	EUT Type: Portable Computing Device	Page 35 of 140

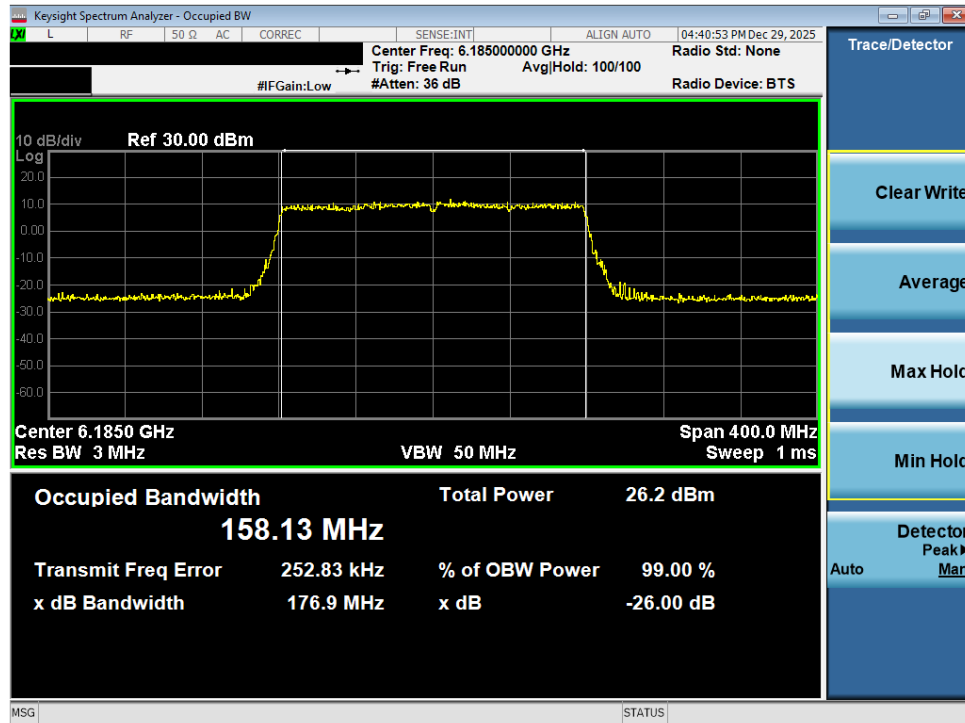


Plot 7-24. 26dB Bandwidth Plot MIMO ANT2 (40MHz 802.11ax/be (UNII Band 5) – Ch. 43)

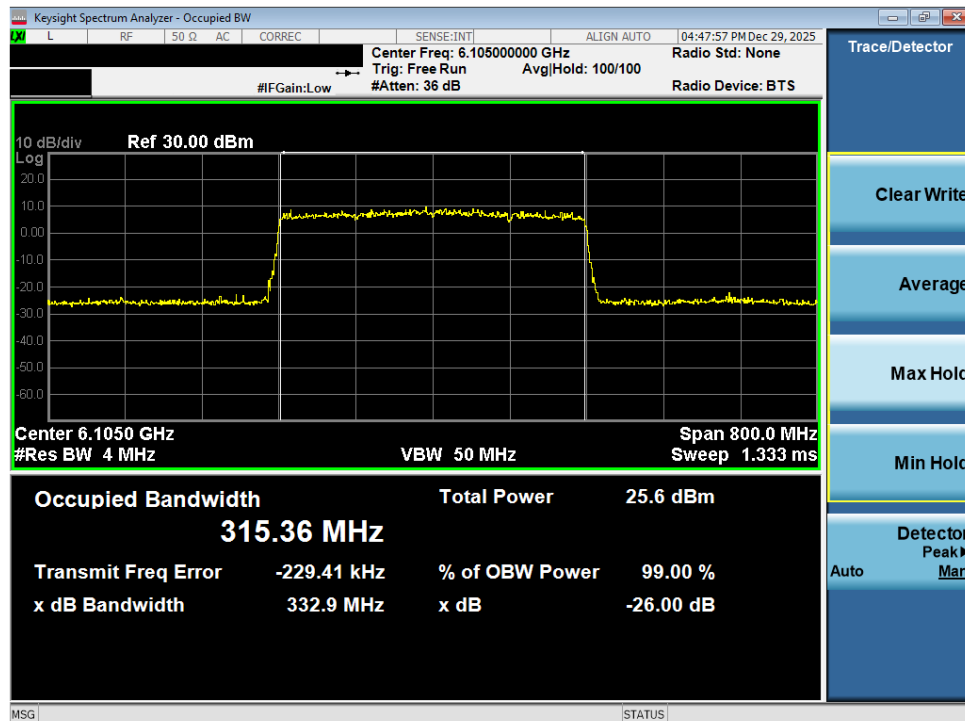


Plot 7-25. 26dB Bandwidth Plot MIMO ANT2 (80MHz 802.11ax/be (UNII Band 5) – Ch. 39)

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE		Approved by: Technical Manager
Test Report S/N: 1M2511200095-08-R2.C3K	Test Dates: 12/16/2025 - 02/17/2026	EUT Type: Portable Computing Device	Page 36 of 140



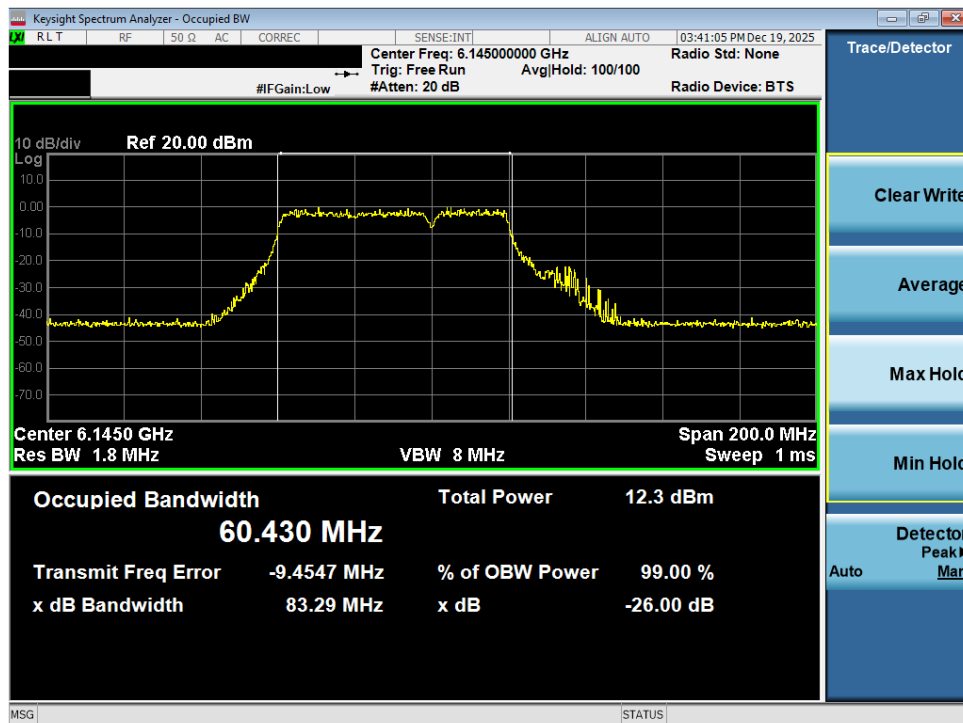
Plot 7-26. 26dB Bandwidth Plot MIMO ANT2 (160MHz 802.11ax/be (UNII Band 5) – Ch. 47)



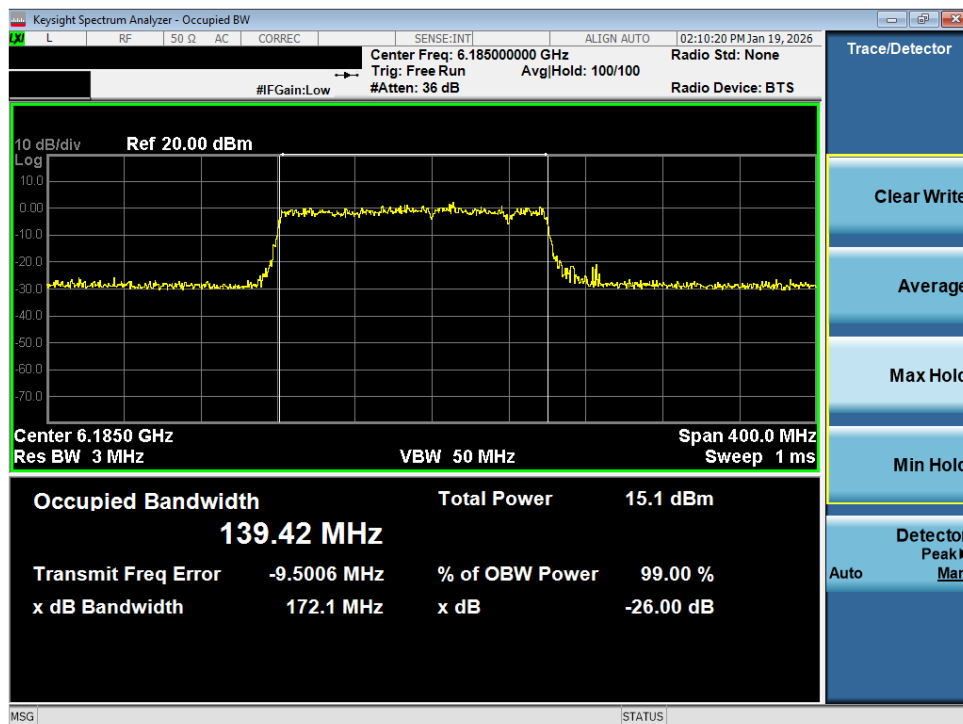
Plot 7-27. 26dB Bandwidth Plot MIMO ANT2 (320MHz 802.11ax/be (UNII Band 5) – Ch.31)

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE		Approved by: Technical Manager
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MIMO Antenna-2 26 dB Bandwidth Measurements - (UNII Band 5) - Punctured

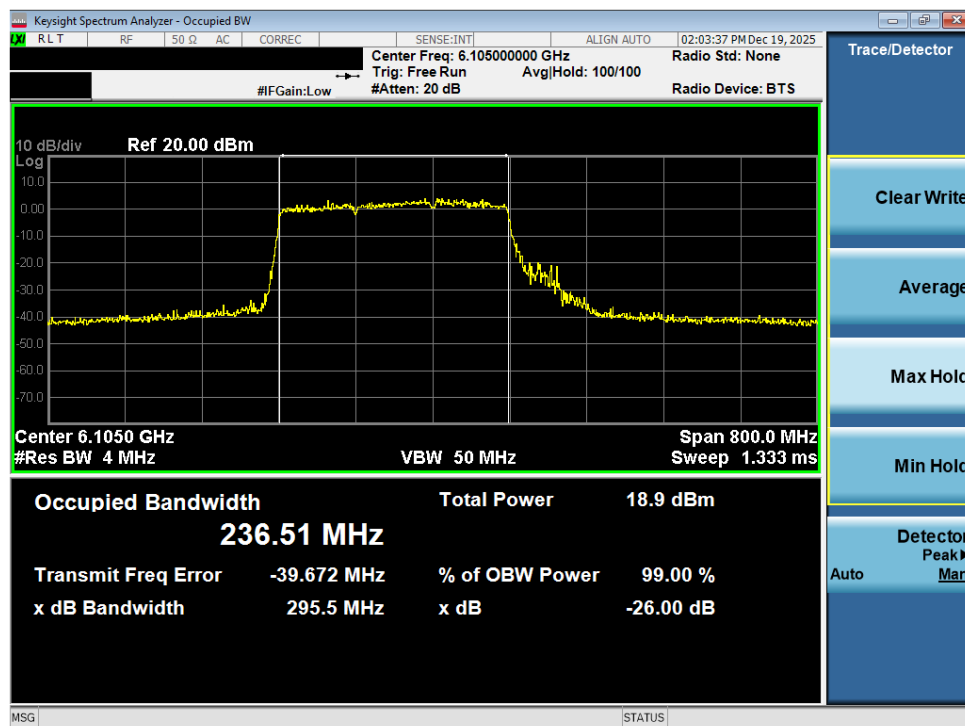


Plot 7-28. 26dB Bandwidth Plot MIMO ANT2 (80MHz 802.11be (UNII Band 5) – Ch. 30) - Punctured



Plot 7-29. 26dB Bandwidth Plot MIMO ANT2 (160MHz 802.11ax/be (UNII Band 5) – Ch. 47) - Punctured

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE		Approved by: Technical Manager
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Plot 7-30. 26dB Bandwidth Plot MIMO ANT2 (320MHz 802.11ax/be (UNII Band 5) – Ch. 31) - Punctured

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE		Approved by: Technical Manager
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7.3 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 C63.10-2013, 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 C63.10-2013 – Section 12.3.3.2 Method PM-G
ANSI C63.10-2013 – Section 14.2 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 7-2. Test Instrument & Measurement Setup

Test Notes

None

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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	5935	2	-2.19	-1.17	1.36	9.24	10.60	24.00	-13.40
	5955	1	-2.18	-1.20	1.35	9.24	10.59	24.00	-13.41
	6175	45	-1.50	-1.20	1.66	9.24	10.90	24.00	-13.10
	6415	93	-1.66	-1.34	1.51	9.24	10.75	24.00	-13.25
UNII-6	6435	97	-2.24	-2.06	0.86	8.07	8.93	24.00	-15.07
	6475	105	-2.52	-2.01	0.75	8.07	8.82	24.00	-15.18
	6515	113	-2.53	-2.04	0.73	8.07	8.80	24.00	-15.20
UNII-7	6535	117	-2.10	-1.80	1.06	7.23	8.29	24.00	-15.71
	6675	145	-2.40	-2.46	0.58	7.23	7.81	24.00	-16.19
	6695	149	-2.42	-2.40	0.60	7.23	7.83	24.00	-16.17
	6875	185	-1.98	-1.65	1.20	7.23	8.43	24.00	-15.57
UNII-8	6895	189	-0.65	-0.26	2.56	7.40	9.96	24.00	-14.04
	6995	209	-0.37	-0.39	2.63	7.40	10.03	24.00	-13.97
	7115	233	-0.90	-0.74	2.19	7.40	9.59	24.00	-14.41

Table 7-6. 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	5935	2	-2.09	-1.46	1.25	9.24	10.49	24.00	-13.51
	5955	1	-1.95	-1.32	1.39	9.24	10.63	24.00	-13.37
	6175	45	-1.40	-1.10	1.76	9.24	11.00	24.00	-13.00
	6415	93	-1.50	-1.19	1.67	9.24	10.91	24.00	-13.09
UNII-6	6435	97	-2.01	-1.73	1.14	8.07	9.21	24.00	-14.79
	6475	105	-2.25	-1.75	1.02	8.07	9.09	24.00	-14.91
	6515	113	-2.33	-1.85	0.93	8.07	9.00	24.00	-15.00
UNII-7	6535	117	-2.39	-2.01	0.81	7.23	8.04	24.00	-15.96
	6675	145	-2.21	-2.27	0.77	7.23	8.00	24.00	-16.00
	6695	149	-2.29	-2.26	0.74	7.23	7.97	24.00	-16.03
	6875	185	-2.25	-1.90	0.94	7.23	8.17	24.00	-15.83
UNII-8	6895	189	-0.90	-0.49	2.32	7.40	9.72	24.00	-14.28
	6995	209	-0.67	-0.68	2.34	7.40	9.74	24.00	-14.26
	7115	233	-0.65	-0.47	2.45	7.40	9.85	24.00	-14.15

Table 7-7. 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	5935	2	-2.11	-1.45	1.24	9.24	10.48	24.00	-13.52
	5955	1	-1.30	-1.80	1.47	9.24	10.71	24.00	-13.29
	6175	45	-1.37	-1.07	1.79	9.24	11.03	24.00	-12.97
	6415	93	-1.53	-1.18	1.66	9.24	10.90	24.00	-13.10
UNII-6	6435	97	-2.00	-1.69	1.17	8.07	9.24	24.00	-14.76
	6475	105	-2.29	-1.70	1.03	8.07	9.10	24.00	-14.90
	6515	113	-2.27	-1.70	1.03	8.07	9.10	24.00	-14.90
UNII-7	6535	117	-2.40	-1.90	0.87	7.23	8.10	24.00	-15.90
	6675	145	-2.22	-2.26	0.77	7.23	8.00	24.00	-16.00
	6695	149	-2.20	-2.19	0.82	7.23	8.05	24.00	-15.95
	6875	185	-2.27	-1.90	0.93	7.23	8.16	24.00	-15.84
UNII-8	6895	189	-0.90	-0.51	2.31	7.40	9.71	24.00	-14.29
	6995	209	-0.60	-0.65	2.39	7.40	9.79	24.00	-14.21
	7115	233	-0.69	-0.49	2.42	7.40	9.82	24.00	-14.18

Table 7-8. MIMO 20MHz BW 802.11be (UNII) Maximum Conducted Output Power – LPI

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE		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	5935	2	6.60	6.25	9.44	9.24	18.68	30.00	-11.32
	5955	1	15.05	15.49	18.29	9.24	27.53	30.00	-2.47
	6175	45	15.16	14.35	17.78	9.24	27.02	30.00	-2.98
	6415	93	15.18	14.78	17.99	9.24	27.23	30.00	-2.77
UNII-7	6535	117	16.16	15.82	19.00	7.23	26.23	30.00	-3.77
	6675	145	15.85	15.50	18.69	7.23	25.92	30.00	-4.08
	6695	149	15.80	15.35	18.59	7.23	25.82	30.00	-4.18
	6855	181	15.75	15.30	18.54	7.23	25.77	30.00	-4.23

Table 7-9. 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	5935	2	6.20	5.85	9.04	9.24	18.28	30.00	-11.72
	5955	1	16.03	15.50	18.78	9.24	28.02	30.00	-1.98
	6175	45	16.13	15.28	18.74	9.24	27.98	30.00	-2.02
	6415	93	16.49	16.11	19.31	9.24	28.55	30.00	-1.45
UNII-7	6535	117	16.58	16.19	19.40	7.23	26.63	30.00	-3.37
	6675	145	16.89	16.35	19.64	7.23	26.87	30.00	-3.13
	6695	149	16.82	16.29	19.57	7.23	26.80	30.00	-3.20
	6855	181	16.99	16.58	19.80	7.23	27.03	30.00	-2.97

Table 7-10. 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	5935	2	6.98	6.42	9.72	9.24	18.96	30.00	-11.04
	5955	1	16.49	15.77	19.16	9.24	28.40	30.00	-1.60
	6175	45	16.24	15.55	18.92	9.24	28.16	30.00	-1.84
	6415	93	16.49	16.17	19.34	9.24	28.58	30.00	-1.42
UNII-7	6535	117	16.66	16.22	19.46	7.23	26.69	30.00	-3.31
	6675	145	16.96	16.40	19.70	7.23	26.93	30.00	-3.07
	6695	149	16.85	16.24	19.57	7.23	26.80	30.00	-3.20
	6855	181	16.99	16.63	19.82	7.23	27.05	30.00	-2.95

Table 7-11. MIMO 20MHz BW 802.11be (UNII) Maximum Conducted Output Power – SP

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	1.89	2.30	5.11	9.24	14.35	24.00	-9.65
	6165	43	1.64	1.99	4.83	9.24	14.07	24.00	-9.93
	6285	67	2.34	2.25	5.31	9.24	14.55	24.00	-9.45
	6405	91	1.62	1.90	4.77	9.24	14.01	24.00	-9.99
UNII-6	6445	99	1.00	1.22	4.12	8.07	12.19	24.00	-11.81
	6485	107	0.76	1.18	3.99	8.07	12.06	24.00	-11.94
	6525	115	0.75	1.11	3.94	8.07	12.01	24.00	-11.99
UNII-7	6565	123	2.00	2.56	5.30	7.23	12.53	24.00	-11.47
	6685	147	2.45	2.39	5.43	7.23	12.66	24.00	-11.34
	6725	155	2.80	2.87	5.85	7.23	13.08	24.00	-10.92
	6845	179	2.90	2.93	5.93	7.23	13.16	24.00	-10.84
UNII-8	6885	187	2.64	2.87	5.77	7.40	13.17	24.00	-10.83
	7005	211	2.74	2.88	5.82	7.40	13.22	24.00	-10.78
	7085	227	2.58	2.63	5.62	7.40	13.02	24.00	-10.98

Table 7-12. MIMO 40MHz BW 802.11ax (UNII) Maximum Conducted Output Power – LPI

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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	1.49	1.80	4.66	9.24	13.90	24.00	-10.10
	6165	43	1.79	1.89	4.85	9.24	14.09	24.00	-9.91
	6285	67	2.47	2.20	5.35	9.24	14.59	24.00	-9.41
	6405	91	2.20	2.36	5.29	9.24	14.53	24.00	-9.47
UNII-6	6445	99	1.11	1.21	4.17	8.07	12.24	24.00	-11.76
	6485	107	0.86	1.17	4.03	8.07	12.10	24.00	-11.90
	6525	115	0.82	1.11	3.98	8.07	12.05	24.00	-11.95
UNII-7	6565	123	2.19	2.64	5.43	7.23	12.66	24.00	-11.34
	6685	147	2.57	2.37	5.48	7.23	12.71	24.00	-11.29
	6725	155	2.44	2.35	5.41	7.23	12.64	24.00	-11.36
	6845	179	2.56	2.53	5.56	7.23	12.79	24.00	-11.21
UNII-8	6885	187	2.28	2.45	5.38	7.40	12.78	24.00	-11.22
	7005	211	2.40	2.39	5.41	7.40	12.81	24.00	-11.19
	7085	227	2.21	2.16	5.20	7.40	12.60	24.00	-11.40

Table 7-13. MIMO 40MHz BW 802.11be (UNII) Maximum Conducted Output Power – LPI

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	17.44	16.83	20.16	9.24	29.40	30.00	-0.60
	6165	43	17.18	16.70	19.96	9.24	29.20	30.00	-0.80
	6285	67	17.17	16.63	19.92	9.24	29.16	30.00	-0.84
	6405	91	17.33	17.06	20.21	9.24	29.45	30.00	-0.55
UNII-7	6565	123	17.66	17.40	20.54	7.23	27.77	30.00	-2.23
	6685	147	17.78	17.43	20.62	7.23	27.85	30.00	-2.15
	6725	155	17.98	17.67	20.84	7.23	28.07	30.00	-1.93
	6845	179	14.75	14.27	17.53	7.23	24.76	30.00	-5.24

Table 7-14. 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	17.49	16.86	20.20	9.24	29.44	30.00	-0.56
	6165	43	17.19	16.66	19.94	9.24	29.18	30.00	-0.82
	6285	67	17.21	16.57	19.91	9.24	29.15	30.00	-0.85
	6405	91	17.35	17.14	20.26	9.24	29.50	30.00	-0.50
UNII-7	6565	123	17.63	17.28	20.47	7.23	27.70	30.00	-2.30
	6685	147	17.85	17.41	20.65	7.23	27.88	30.00	-2.12
	6725	155	17.99	17.69	20.85	7.23	28.08	30.00	-1.92
	6845	179	14.71	14.51	17.62	7.23	24.85	30.00	-5.15

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

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE		Approved by: Technical Manager
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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	2.95	3.11	6.04	9.24	15.28	24.00	-8.72
	6145	39	3.58	3.39	6.50	9.24	15.74	24.00	-8.26
	6305	71	3.74	3.42	6.59	9.24	15.83	24.00	-8.17
	6385	87	3.64	3.70	6.68	9.24	15.92	24.00	-8.08
UNII-6	6465	103	3.93	3.65	6.80	8.07	14.87	24.00	-9.13
UNII-7	6545	119	4.85	4.57	7.72	8.07	15.79	24.00	-8.21
	6705	151	4.66	4.35	7.52	7.23	14.75	24.00	-9.25
	6785	167	5.00	4.56	7.80	7.23	15.03	24.00	-8.97
	6865	183	5.17	4.69	7.95	7.40	15.35	24.00	-8.65
UNII-8	6945	199	5.37	4.69	8.05	7.40	15.45	24.00	-8.55
	7025	215	5.08	4.50	7.81	7.40	15.21	24.00	-8.79

Table 7-16. MIMO 80MHz BW 802.11ax (UNII) Maximum Conducted Output Power – LPI

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	2.92	3.12	6.03	9.24	15.27	24.00	-8.73
	6145	39	3.49	3.35	6.43	9.24	15.67	24.00	-8.33
	6305	71	3.72	3.42	6.58	9.24	15.82	24.00	-8.18
	6385	87	3.62	3.72	6.68	9.24	15.92	24.00	-8.08
UNII-6	6465	103	3.92	3.65	6.80	8.07	14.87	24.00	-9.13
UNII-7	6545	119	4.84	4.56	7.71	8.07	15.78	24.00	-8.22
	6705	151	5.04	4.82	7.94	7.23	15.17	24.00	-8.83
	6785	167	5.00	4.54	7.79	7.23	15.02	24.00	-8.98
	6865	183	5.20	4.70	7.97	7.40	15.37	24.00	-8.63
UNII-8	6945	199	5.36	4.70	8.05	7.40	15.45	24.00	-8.55
	7025	215	5.06	4.47	7.79	7.40	15.19	24.00	-8.81

Table 7-17. MIMO 80MHz 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	15.83	15.07	18.48	9.24	27.72	30.00	-2.28
	6145	39	15.97	15.26	18.64	9.24	27.88	30.00	-2.12
	6305	71	15.64	15.01	18.35	9.24	27.59	30.00	-2.41
	6385	87	15.81	15.47	18.65	9.24	27.89	30.00	-2.11
UNII-7	6625	135	17.73	17.41	20.59	7.23	27.82	30.00	-2.18
	6705	151	17.90	17.57	20.75	7.23	27.98	30.00	-2.02
	6785	167	17.82	17.23	20.55	7.23	27.78	30.00	-2.22

Table 7-18. 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	15.81	15.10	18.48	9.24	27.72	30.00	-2.28
	6145	39	15.94	15.34	18.66	9.24	27.90	30.00	-2.10
	6305	71	15.63	15.01	18.34	9.24	27.58	30.00	-2.42
	6385	87	15.81	15.50	18.66	9.24	27.90	30.00	-2.10
UNII-7	6625	135	17.72	17.35	20.55	7.23	27.78	30.00	-2.22
	6705	151	17.84	17.50	20.68	7.23	27.91	30.00	-2.09
	6785	167	17.79	17.17	20.50	7.23	27.73	30.00	-2.27

Table 7-19. MIMO 80MHz BW 802.11be (UNII) Maximum Conducted Output Power – SP

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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	5.68	5.30	8.50	9.24	17.74	24.00	-6.26
	6185	47	5.85	5.15	8.52	9.24	17.76	24.00	-6.24
	6345	79	6.00	5.56	8.80	9.24	18.04	24.00	-5.96
UNII-6	6505	111	6.15	5.80	8.99	8.07	17.06	24.00	-6.94
UNII-7	6665	143	7.29	6.94	10.13	7.23	17.36	24.00	-6.64
	6825	175	7.60	6.80	10.23	7.40	17.63	24.00	-6.37
UNII-8	6985	207	7.52	6.56	10.08	7.40	17.48	24.00	-6.52

Table 7-20. 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	5.69	5.30	8.51	9.24	17.75	24.00	-6.25
	6185	47	5.85	5.09	8.50	9.24	17.74	24.00	-6.26
	6345	79	6.05	5.56	8.82	9.24	18.06	24.00	-5.94
UNII-6	6505	111	6.15	5.80	8.99	8.07	17.06	24.00	-6.94
UNII-7	6665	143	7.25	6.95	10.11	7.23	17.34	24.00	-6.66
	6825	175	7.55	6.80	10.20	7.40	17.60	24.00	-6.40
UNII-8	6985	207	7.55	6.85	10.22	7.40	17.62	24.00	-6.38

Table 7-21. MIMO 160MHz 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	15.99	15.37	18.70	9.24	27.94	30.00	-2.06
	6185	47	15.87	15.09	18.51	9.24	27.75	30.00	-2.25
	6345	79	15.69	15.24	18.48	9.24	27.72	30.00	-2.28
UNII-7	6665	143	17.21	16.59	19.92	7.23	27.15	30.00	-2.85

Table 7-22. 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	15.99	15.33	18.68	9.24	27.92	30.00	-2.08
	6185	47	15.75	15.01	18.41	9.24	27.65	30.00	-2.35
	6345	79	15.99	15.69	18.85	9.24	28.09	30.00	-1.91
UNII-7	6665	143	17.39	16.81	20.12	7.23	27.35	30.00	-2.65

Table 7-23. 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	8.36	7.69	11.05	9.24	20.29	24.00	-3.71
UNII-5	6265	63	8.87	7.90	11.42	9.24	20.66	24.00	-3.34
UNII-6	6425	95	8.03	7.53	10.80	8.07	18.87	24.00	-5.13
UNII-7	6585	127	7.90	7.50	10.71	7.23	17.94	24.00	-6.06
UNII-7	6745	159	8.09	7.50	10.82	7.23	18.05	24.00	-5.95
UNII-8	6905	191	7.78	7.35	10.58	7.40	17.98	24.00	-6.02

Table 7-24. MIMO 320MHz BW 802.11be (UNII) Maximum Conducted Output Power – LPI

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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	14.95	15.14	18.06	9.24	27.30	30.00	-2.70

Table 7-25. MIMO 320MHz BW 802.11be (UNII) Maximum Conducted Output Power – SP

80MHz BW	Band	Freq [MHz]	Channel	Puncture Size	Average Conducted Power (dBm)						Dir. Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
					Puncture Case									
					MRU4			MRU1						
					ANT1	ANT2	MIMO	ANT1	ANT2	MIMO				
5	5985	7	20MHz	3.01	3.49	6.27	2.57	3.11	5.86	9.24	15.50	24.00	-8.50	
	6145	39	20MHz	3.03	3.12	6.09	3.03	3.15	6.10	9.24	15.34	24.00	-8.66	
	6385	87	20MHz	2.44	3.21	5.85	2.51	3.25	5.91	9.24	15.14	24.00	-8.86	
6	6465	103	20MHz	2.91	3.56	6.26	2.93	3.60	6.29	8.07	14.36	24.00	-9.64	
	6545	119	20MHz	2.70	3.79	6.29	2.73	3.78	6.30	7.23	13.52	24.00	-10.48	
	6705	151	20MHz	3.41	3.75	6.59	3.40	3.82	6.63	7.23	13.85	24.00	-10.15	
7	6865	183	20MHz	3.68	3.80	6.75	3.64	3.76	6.71	7.23	13.98	24.00	-10.02	
	6945	199	20MHz	4.12	4.40	7.27	4.13	4.38	7.27	7.40	14.67	24.00	-9.33	
	7025	215	20MHz	3.85	4.19	7.03	3.88	4.22	7.06	7.40	14.46	24.00	-9.54	

Table 7-26. MIMO 80MHz BW 802.11be (UNII) Maximum Conducted Output Power – Punctured – LPI

160MHz BW	Band	Freq [MHz]	Channel	Puncture Size	Average Conducted Power (dBm)						Dir. Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
					Puncture Case									
					MRU3			MRU1						
					ANT1	ANT2	MIMO	ANT1	ANT2	MIMO				
5	6025	15	40MHz	4.82	4.56	7.70	4.90	4.50	7.71	9.24	16.95	24.00	-7.05	
	6185	47	40MHz	5.36	4.88	8.14	5.39	4.84	8.13	9.24	17.37	24.00	-6.63	
	6345	79	40MHz	5.16	5.26	8.22	5.18	5.35	8.28	9.24	17.51	24.00	-6.49	
6	6505	111	40MHz	5.22	5.45	8.35	5.40	5.49	8.46	8.07	16.53	24.00	-7.47	
	6665	143	40MHz	7.23	7.21	10.23	7.21	7.32	10.28	7.23	17.50	24.00	-6.50	
7	6825	175	40MHz	7.15	7.23	10.20	7.28	7.32	10.31	7.23	17.54	24.00	-6.46	
	6985	207	40MHz	7.02	7.49	10.27	7.22	7.49	10.37	7.40	17.76	24.00	-6.24	

Table 7-27. MIMO 160MHz BW 802.11be (UNII) Maximum Conducted Output Power – Punctured – LPI

160MHz BW	Band	Freq [MHz]	Channel	Puncture Size	Average Conducted Power (dBm)						Dir. Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
					Puncture Case									
					MRU8			MRU1						
					ANT1	ANT2	MIMO	ANT1	ANT2	MIMO				
5	6025	15	20MHz	4.85	4.55	7.71	4.89	4.49	7.70	9.24	16.95	24.00	-7.05	
	6185	47	20MHz	5.38	4.88	8.15	5.40	4.84	8.14	9.24	17.38	24.00	-6.62	
	6345	79	20MHz	5.15	5.29	8.23	5.13	5.32	8.24	9.24	17.47	24.00	-6.53	
6	6505	111	20MHz	5.31	5.49	8.41	5.34	5.49	8.43	8.07	16.50	24.00	-7.50	
	6665	143	20MHz	7.22	7.21	10.23	7.25	7.25	10.26	7.23	17.49	24.00	-6.51	
7	6825	175	20MHz	7.25	7.27	10.27	7.30	7.35	10.34	7.23	17.56	24.00	-6.44	
	6985	207	20MHz	7.12	7.49	10.32	7.17	7.49	10.34	7.40	17.74	24.00	-6.26	

Table 7-28. MIMO 160MHz BW 802.11be (UNII) Maximum Conducted Output Power – Punctured – LPI

320MHz BW	Band	Freq [MHz]	Channel	Puncture Size	Average Conducted Power (dBm)						Dir. Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
					Puncture Case									
					MRU4			MRU1						
					ANT1	ANT2	MIMO	ANT1	ANT2	MIMO				
5	6105	31	40MHz	8.17	8.31	11.25	8.14	8.30	11.23	9.24	20.49	24.00	-3.51	
	6265	63	40MHz	8.74	8.43	11.60	8.72	8.39	11.57	9.24	20.83	24.00	-3.17	
	6425	95	40MHz	8.00	8.39	11.21	7.97	8.40	11.20	8.07	19.28	24.00	-4.72	
7	6585	127	40MHz	8.16	8.36	11.27	8.15	8.33	11.25	7.23	18.50	24.00	-5.50	
	6745	159	40MHz	7.69	8.31	11.02	7.70	8.33	11.04	7.23	18.26	24.00	-5.74	
	6905	191	40MHz	7.74	8.19	10.98	7.74	8.24	11.01	7.40	18.40	24.00	-5.60	

Table 7-29. MIMO 320MHz BW 802.11be (UNII) Maximum Conducted Output Power – Punctured – LPI

320MHz BW	Band	Freq [MHz]	Channel	Puncture Size	Average Conducted Power (dBm)						Dir. Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
					Puncture Case									
					MRU4			MRU1						
					ANT1	ANT2	MIMO	ANT1	ANT2	MIMO				
5	6105	31	80MHz	8.16	8.26	11.22	8.18	8.25	11.23	9.24	20.46	24.00	-3.54	
	6265	63	80MHz	8.72	8.38	11.56	8.72	8.37	11.56	9.24	20.80	24.00	-3.20	
	6425	95	80MHz	7.93	8.37	11.17	7.82	8.26	11.06	8.07	19.24	24.00	-4.76	
6	6585	127	80MHz	8.12	8.34	11.24	8.13	8.31	11.23	7.23	18.47	24.00	-5.53	
	6745	159	80MHz	7.65	8.31	11.00	7.61	8.27	10.96	7.23	18.23	24.00	-5.77	
	6905	191	80MHz	7.66	8.12	10.91	7.61	8.10	10.87	7.40	18.30	24.00	-5.70	

Table 7-30. MIMO 320MHz BW 802.11be (UNII) Maximum Conducted Output Power – Punctured – LPI

320MHz BW	Band	Freq [MHz]	Channel	Puncture Size	Average Conducted Power (dBm)						Dir. Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
					Puncture Case									
					MRU6			MRU7						
					ANT1	ANT2	MIMO	ANT1	ANT2	MIMO				
5	6105	31	120MHz	8.13	8.28	11.22	8.19	8.29	11.25	9.24	20.49	24.00	-3.51	
	6265	63	120MHz	8.73	8.41	11.58	8.70	8.38	11.55	9.24	20.82	24.00	-3.18	
	6425	95	120MHz	7.99	8.40	11.21	7.90	8.37	11.15	8.07	19.28	24.00	-4.72	
7	6585	127	120MHz	8.19	8.34	11.28	8.10	8.36	11.24	7.23	18.50	24.00	-5.50	
	6745	159	120MHz	7.73	8.31	11.04	7.71	8.30	11.03	7.23	18.27	24.00	-5.73	
	6905	191	120MHz	7.73	8.17	10.97	7.70	8.10	10.91	7.40	18.36	24.00	-5.64	

Table 7-31. MIMO 320MHz BW 802.11be (UNII) Maximum Conducted Output Power – Punctured – LPI

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80MHz BW	Band	Freq [MHz]	Channel	Puncture Size	Average Conducted Power (dBm)									Dir. Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
					Puncture Case												
					90			91			93						
					ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	ANT1	ANT2	MIMO				
5	5985	7	20MHz	15.04	14.74	17.90	15.06	14.71	17.90	15.14	14.70	17.94	9.24	27.17	30.00	-2.83	
	6145	39	20MHz	15.25	14.55	17.92	15.25	14.55	17.92	15.24	14.51	17.90	9.24	27.16	30.00	-2.84	
	6385	87	20MHz	14.99	15.15	18.08	14.95	15.16	18.07	15.08	15.21	18.16	9.24	27.39	30.00	-2.61	
7	6705	151	20MHz	15.30	15.36	18.34	15.23	15.35	18.30	15.31	15.43	18.38	7.23	25.61	30.00	-4.39	

Table 7-32. MIMO 80MHz BW 802.11be (UNII) Maximum Conducted Output Power – Punctured – SP

160MHz BW	Band	Freq [MHz]	Channel	Puncture Size	Average Conducted Power (dBm)									Dir. Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
					Puncture Case												
					100			1101			11103						
					ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	ANT1	ANT2	MIMO				
5		6025	15	40MHz	15.41	15.13	18.28	15.49	15.16	18.34	15.49	15.11	18.31	9.24	27.57	30.00	-2.43
		6185	47	40MHz	15.33	14.67	18.02	15.26	14.66	17.98	15.27	14.60	17.96	9.24	27.26	30.00	-2.74
		6345	79	40MHz	15.05	15.05	18.06	15.14	15.16	18.16	15.03	15.11	18.08	9.24	27.40	30.00	-2.60
7		6665	143	40MHz	15.22	15.36	18.30	15.21	15.49	18.36	15.19	15.47	18.34	7.23	25.59	30.00	-4.41

Table 7-33. MIMO 160MHz BW 802.11be (UNII) Maximum Conducted Output Power – Punctured – SP

160MHz BW	Band	Freq [MHz]	Channel	Puncture Size	Average Conducted Power (dBm)												Dir. Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
					Puncture Case															
					96			99			1099									
					ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	ANT1	ANT2	MIMO							
5	6025	15	20MHz	15.44	15.16	18.31	15.43	14.18	17.86	15.49	15.18	18.35	9.24	27.58	30.00	-2.42				
	6185	47	20MHz	15.28	14.65	17.99	15.23	14.66	17.96	15.29	14.66	18.00	9.24	27.23	30.00	-2.77				
	6345	79	20MHz	15.06	15.13	18.11	15.11	15.11	18.12	15.04	15.13	18.10	9.24	27.36	30.00	-2.64				
7	6665	143	20MHz	15.29	15.43	18.37	15.30	15.48	18.40	15.29	15.49	18.40	7.23	25.63	30.00	-4.37				

Table 7-34. MIMO 160MHz BW 802.11be (UNII) Maximum Conducted Output Power – Punctured – SP

320MHz BW	Band	Freq [MHz]	Channel	Puncture Size	Average Conducted Power (dBm)						Dir. Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
					Puncture Case									
					MR4			MRU1						
					ANT1	ANT2	MIMO	ANT1	ANT2	MIMO				
					5	6105	31	40MHz	14.14	14.39				

Table 7-35. MIMO 320MHz BW 802.11be (UNII) Maximum Conducted Output Power – Punctured – SP

320MHz BW	Band	Freq [MHz]	Channel	Puncture Size	Average Conducted Power (dBm)						Dir. Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
					Puncture Case									
					MRU4			MRU1						
					ANT1	ANT2	MIMO	ANT1	ANT2	MIMO				
					5	6105	31	80MHz	13.59	13.80				

Table 7-36. MIMO 320MHz BW 802.11be (UNII) Maximum Conducted Output Power – Punctured – SP

320MHz BW	Band	Freq [MHz]	Channel	Puncture Size	Average Conducted Power (dBm)						Dir. Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
					Puncture Case									
					MRU6			MRU7						
					ANT1	ANT2	MIMO	ANT1	ANT2	MIMO				
					5	6105	31	120MHz	12.45	12.75				

Table 7-37. MIMO 320MHz BW 802.11be (UNII) Maximum Conducted Output Power – Punctured – SP

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Sample MIMO Calculation:

Assumed at 5935MHz in 802.11a (20MHz BW) mode, the average conducted output power was measured to be 6.60 dBm for Antenna-1 and - 6.25 dBm for Antenna-2.

Antenna 1 + Antenna 2 = MIMO

$$(6.60 \text{ dBm} + 6.25 \text{ dBm}) = (4.57 \text{ mW} + 4.22 \text{ mW}) = 8.79 \text{ mW} = 9.44 \text{ dBm}$$

Sample Directional Gain Calculation:

Per ANSI C63.10-2013 Section 14.4.3, the directional gain is calculated using the following formula, where GN is the gain of the nth antenna and NANT, the total number of antennas used.

$$\text{Directional gain} = 10 \log[(10^{G_1/20} + 10^{G_2/20} + \dots + 10^{G_N/20})^2 / N_{ANT}] \text{ dBi}$$

Sample e.i.r.p. Calculation:

Assumed at 5935MHz in 802.11a (20MHz BW) mode, the average MIMO conducted power was calculated to be 9.44 dBm with directional gain of 9.24 dBi.

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

$$9.44 \text{ dBm} + 9.24 \text{ dBi} = 18.68 \text{ dBm}$$

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7.4 Maximum Power Spectral Density

Test Overview and Limit

The spectrum analyzer was connected to the antenna terminal while the EUT was operating at its maximum duty cycle, at its maximum power control level, as defined in ANSI C63.10-2013, and at the appropriate frequencies. Method SA-1, as defined in ANSI C63.10-2013, was used to measure the power spectral density for 802.11a/ax.

In the 5.925-7.125 GHz bands, the maximum power spectral density must not exceed -1 dBm e.i.r.p. in any 1-megahertz band. For client devices, except for fixed client devices as defined in this subpart, operating under the control of a standard power access point in the 5.925-6.875 GHz band, the maximum power spectral density must not exceed 17 dBm/MHz e.i.r.p.

Test Procedure Used

ANSI C63.10-2013 – Section 12.3.2.2

ANSI C63.10-2013 – Section 14.3.2.2 Measure-and-Sum Technique

Test Settings

1. Analyzer was set to the center frequency of the UNII channel under investigation.
2. Span was set to encompass the entire emission bandwidth of the signal.
3. RBW = 1MHz
4. VBW = 3MHz
5. Number of sweep points $\geq 2 \times (\text{span}/\text{RBW})$
6. Sweep time = auto
7. Detector = power averaging (RMS)
8. Trigger was set to free run for all modes.
9. Trace was averaged over 100 sweeps.
10. The peak search function of the spectrum analyzer was used to find the peak of the spectrum.

Test Setup

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



Figure 7-3. Test Instrument & Measurement Setup

Test Notes

All cases were investigated; a subset of the taken plots were included to represent relevant settings and measurements.

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MIMO Power Spectral Density Measurements

	Frequency [MHz]	Channel	802.11 MODE	Antenna-1 Power Density [dBm]	Antenna-2 Power Density [dBm]	Antenna-1 Gain [dBi]	Antenna-2 Gain [dBi]	Summed MIMO Power Density [dBm/MHz]	Directional Gain [dBi]	EIRP Density [dBm/MHz]	EIRP Density Limit [dBm/MHz]	Margin [dB]
Band 5	5935	2	a	-14.04	-14.42	6.24	6.21	-11.21	9.24	-1.98	-1	-0.98
	6175	45	a	-13.83	-13.83	6.24	6.21	-10.82	9.24	-1.59	-1	-0.59
	6415	93	a	-14.17	-13.74	6.24	6.21	-10.94	9.24	-1.70	-1	-0.70
	5935	2	be (20MHz)	-14.02	-13.49	6.24	6.21	-10.74	9.24	-1.50	-1	-0.50
	6175	45	be (20MHz)	-14.10	-13.82	6.24	6.21	-10.95	9.24	-1.72	-1	-0.72
	6415	93	be (20MHz)	-14.14	-13.61	6.24	6.21	-10.86	9.24	-1.62	-1	-0.62
	5965	3	be (40MHz)	-14.00	-13.65	6.24	6.21	-10.81	9.24	-1.58	-1	-0.58
	6165	43	be (40MHz)	-13.89	-13.85	6.24	6.21	-10.86	9.24	-1.62	-1	-0.62
	6405	91	be (40MHz)	-14.12	-13.40	6.24	6.21	-10.74	9.24	-1.50	-1	-0.50
	5985	7	be (80MHz)	-14.22	-14.15	6.24	6.21	-11.18	9.24	-1.94	-1	-0.94
	6145	39	be (80MHz)	-13.76	-13.92	6.24	6.21	-10.83	9.24	-1.59	-1	-0.59
	6385	87	be (80MHz)	-13.74	-14.08	6.24	6.21	-10.90	9.24	-1.66	-1	-0.66
	6025	15	be (160MHz)	-14.23	-14.05	6.24	6.21	-11.13	9.24	-1.90	-1	-0.90
	6185	47	be (160MHz)	-13.56	-13.99	6.24	6.21	-10.76	9.24	-1.52	-1	-0.52
	6345	79	be (160MHz)	-14.45	-14.09	6.24	6.21	-11.26	9.24	-2.02	-1	-1.02
	6105	31	be (320MHz)	-14.10	-13.94	6.24	6.21	-11.01	9.24	-1.77	-1	-0.77
Band 6	6265	63	be (320MHz)	-14.34	-13.77	6.24	6.21	-11.04	9.24	-1.80	-1	-0.80
	6435	97	a	-12.89	-12.43	5.77	4.29	-9.64	8.07	-1.57	-1	-0.57
	6475	105	a	-13.44	-12.68	5.77	4.29	-10.03	8.07	-1.96	-1	-0.96
	6515	113	a	-13.26	-12.93	5.77	4.29	-10.09	8.07	-2.01	-1	-1.01
	6435	97	be (20MHz)	-13.29	-12.74	5.77	4.29	-9.99	8.07	-1.92	-1	-0.92
	6475	105	be (20MHz)	-13.29	-12.32	5.77	4.29	-9.77	8.07	-1.70	-1	-0.70
	6515	113	be (20MHz)	-12.80	-12.42	5.77	4.29	-9.60	8.07	-1.52	-1	-0.52
	6445	99	be (40MHz)	-13.07	-12.40	5.77	4.29	-9.71	8.07	-1.64	-1	-0.64
	6485	107	be (40MHz)	-13.41	-12.63	5.77	4.29	-9.99	8.07	-1.92	-1	-0.92
	6525	115	be (40MHz)	-13.30	-12.71	5.77	4.29	-9.98	8.07	-1.91	-1	-0.91
	6465	103	be (80MHz)	-12.74	-12.62	5.77	4.29	-9.67	8.07	-1.60	-1	-0.60
	6505	111	be (160MHz)	-12.70	-13.19	5.77	4.29	-9.93	8.07	-1.85	-1	-0.85
Band 5/6/7	6425	95	be (320MHz)	-14.51	-13.10	6.24	6.21	-10.74	9.24	-1.50	-1	-0.50
Band 7	6535	117	a	-13.27	-12.78	4.22	4.21	-10.01	7.23	-2.78	-1	-1.78
	6695	149	a	-13.04	-12.91	4.22	4.21	-9.96	7.23	-2.74	-1	-1.74
	6875	185	a	-13.30	-12.76	4.22	4.21	-10.01	7.23	-2.78	-1	-1.78
	6535	117	be (20MHz)	-13.20	-12.66	4.22	4.21	-9.91	7.23	-2.69	-1	-1.69
	6695	149	be (20MHz)	-12.79	-12.66	4.22	4.21	-9.71	7.23	-2.48	-1	-1.48
	6875	185	be (20MHz)	-13.08	-12.87	4.22	4.21	-9.97	7.23	-2.74	-1	-1.74
	6565	123	be (40MHz)	-13.48	-12.62	4.22	4.21	-10.02	7.23	-2.79	-1	-1.79
	6725	155	be (40MHz)	-12.90	-12.65	4.22	4.21	-9.76	7.23	-2.53	-1	-1.53
	6845	179	be (40MHz)	-13.07	-12.74	4.22	4.21	-9.89	7.23	-2.66	-1	-1.66
	6545	119	be (80MHz)	-12.72	-13.00	4.22	4.21	-9.84	7.23	-2.62	-1	-1.62
	6705	151	be (80MHz)	-12.56	-12.83	4.22	4.21	-9.68	7.23	-2.46	-1	-1.46
	6865	183	be (80MHz)	-13.16	-13.01	4.22	4.21	-10.07	7.23	-2.85	-1	-1.85
	6665	143	be (160MHz)	-13.09	-12.79	4.22	4.21	-9.93	7.23	-2.70	-1	-1.70
	6825	175	be (160MHz)	-13.14	-12.75	4.22	4.21	-9.93	7.23	-2.70	-1	-1.70
Band 6/7	6585	127	be (320MHz)	-13.28	-12.72	5.77	4.29	-9.98	8.07	-1.91	-1	-0.91
Band 7/8	6745	159	be (320MHz)	-13.78	-12.74	4.56	4.21	-10.22	7.40	-2.82	-1	-1.82
Band 8	6895	189	a	-12.90	-12.54	4.56	4.21	-9.70	7.40	-2.31	-1	-1.31
	6995	209	a	-13.04	-12.46	4.56	4.21	-9.73	7.40	-2.34	-1	-1.34
	7115	233	a	-12.75	-12.51	4.56	4.21	-9.62	7.40	-2.22	-1	-1.22
	6895	189	be (20MHz)	-12.76	-12.55	4.56	4.21	-9.64	7.40	-2.25	-1	-1.25
	6995	209	be (20MHz)	-13.03	-12.51	4.56	4.21	-9.75	7.40	-2.35	-1	-1.35
	7115	233	be (20MHz)	-12.64	-12.76	4.56	4.21	-9.69	7.40	-2.29	-1	-1.29
	6885	187	be (40MHz)	-12.57	-12.49	4.56	4.21	-9.52	7.40	-2.12	-1	-1.12
	7005	211	be (40MHz)	-12.83	-12.33	4.56	4.21	-9.56	7.40	-2.17	-1	-1.17
	7085	227	be (40MHz)	-12.80	-12.49	4.56	4.21	-9.63	7.40	-2.23	-1	-1.23
	6945	199	be (80MHz)	-13.14	-12.99	4.56	4.21	-10.05	7.40	-2.65	-1	-1.65
	7025	215	be (80MHz)	-12.78	-12.60	4.56	4.21	-9.68	7.40	-2.28	-1	-1.28
	6985	207	be (160MHz)	-12.90	-13.03	4.56	4.21	-9.95	7.40	-2.56	-1	-1.56
Band 7/8	6905	191	be (320MHz)	-13.31	-12.85	4.56	4.21	-10.06	7.40	-2.67	-1	-1.67

Table 7-38. MIMO e.i.r.p. Conducted Power Spectral Density Measurements – LPI

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	Frequency [MHz]	Channel	802.11 MODE	Antenna-1 Power Density [dBm/MHz]	Antenna-2 Power Density [dBm/MHz]	Antenna-1 Gain [dBi]	Antenna-2 Gain [dBi]	Summed MIMO Power Density [dBm/MHz]	Directional Gain [dBi]	EIRP Density [dBm/MHz]	EIRP Density Limit [dBm/MHz]	Margin [dB]
Band 5	5935	2	a	4.06	3.54	6.24	6.21	6.82	9.24	16.05	17	-0.95
	6175	45	a	4.49	3.96	6.24	6.21	7.24	9.24	16.48	17	-0.52
	6415	93	a	4.12	4.17	6.24	6.21	7.16	9.24	16.39	17	-0.61
	5935	2	be (20MHz)	4.51	3.98	6.24	6.21	7.26	9.24	16.50	17	-0.50
	6175	45	be (20MHz)	4.58	3.91	6.24	6.21	7.27	9.24	16.50	17	-0.50
	6415	93	be (20MHz)	4.24	4.18	6.24	6.21	7.22	9.24	16.45	17	-0.55
	5965	3	be (40MHz)	3.16	2.80	6.24	6.21	5.99	9.24	15.23	17	-1.77
	6165	43	be (40MHz)	3.21	2.93	6.24	6.21	6.08	9.24	15.32	17	-1.68
	6405	91	be (40MHz)	2.91	3.32	6.24	6.21	6.13	9.24	15.36	17	-1.64
	5985	7	be (80MHz)	-1.45	-1.55	6.24	6.21	1.51	9.24	10.75	17	-6.25
	6145	39	be (80MHz)	-1.16	-1.32	6.24	6.21	1.77	9.24	11.01	17	-5.99
	6385	87	be (80MHz)	-1.34	-1.28	6.24	6.21	1.70	9.24	10.94	17	-6.06
	6025	15	be (160MHz)	-4.09	-4.39	6.24	6.21	-1.22	9.24	8.01	17	-8.99
	6185	47	be (160MHz)	-3.85	-4.23	6.24	6.21	-1.02	9.24	8.21	17	-8.79
	6345	79	be (160MHz)	-4.00	-3.92	6.24	6.21	-0.95	9.24	8.28	17	-8.72
	6105	31	be (320MHz)	-7.73	-7.45	6.24	6.21	-4.58	9.24	4.66	17	-12.34
Band 7	6265	63	be (320MHz)	-7.43	-7.44	6.24	6.21	-4.42	9.24	4.81	17	-12.19
	6535	117	a	5.22	5.16	4.22	4.21	8.20	7.23	15.42	17	-1.58
	6695	149	a	4.92	4.73	4.22	4.21	7.84	7.23	15.06	17	-1.94
	6855	181	a	4.99	5.09	4.22	4.21	8.05	7.23	15.27	17	-1.73
	6535	117	be (20MHz)	5.43	5.17	4.22	4.21	8.31	7.23	15.53	17	-1.47
	6695	149	be (20MHz)	4.91	4.87	4.22	4.21	7.90	7.23	15.12	17	-1.88
	6855	181	be (20MHz)	4.87	5.14	4.22	4.21	8.02	7.23	15.24	17	-1.76
	6565	123	be (40MHz)	3.59	3.77	4.22	4.21	6.69	7.23	13.92	17	-3.08
	6725	155	be (40MHz)	3.18	3.26	4.22	4.21	6.23	7.23	13.46	17	-3.54
	6845	179	be (40MHz)	2.97	3.60	4.22	4.21	6.30	7.23	13.53	17	-3.47
	6625	135	be (80MHz)	0.16	1.06	4.22	4.21	3.64	7.23	10.86	17	-6.14
	6705	151	be (80MHz)	0.13	0.93	4.22	4.21	3.56	7.23	10.78	17	-6.22
	6785	167	be (80MHz)	-0.23	0.71	4.22	4.21	3.28	7.23	10.50	17	-6.50
	6665	143	be (160MHz)	-3.03	-2.35	4.22	4.21	0.34	7.23	7.56	17	-9.44
	6825	175	be (160MHz)	-3.25	-2.46	4.22	4.21	0.18	7.23	7.40	17	-9.60
	6745	159	be (320MHz)	-7.90	-7.01	4.56	4.21	-4.42	7.40	2.97	17	-14.03

Table 7-39. MIMO e.i.r.p. Conducted Power Spectral Density Measurements – SP

	Frequency [MHz]	Channel	802.11 MODE	Puncture Size	Antenna-1 Power Density [dBm]	Antenna-2 Power Density [dBm]	Antenna-1 Gain [dBi]	Antenna-2 Gain [dBi]	Summed MIMO Power Density [dBm/MHz]	Directional Gain [dBi]	EIRP Density [dBm/MHz]	EIRP Density Limit [dBm/MHz]	Margin [dB]
Band 5	6145	39	be (80MHz)	20MHz	-14.13	-13.93	6.24	6.21	-11.02	9.24	-1.78	-1	-0.78
	6185	47	be (160MHz)	20MHz	-14.09	-13.57	6.24	6.21	-10.81	9.24	-1.57	-1	-0.57
	6185	47	be (160MHz)	40MHz	-14.64	-13.68	6.24	6.21	-11.13	9.24	-1.89	-1	-0.89
	6105	31	be (320MHz)	40MHz	-14.17	-12.93	5.77	4.29	-10.49	8.07	-2.42	-1	-1.42
	6105	31	be (320MHz)	80MHz	-13.37	-12.04	5.77	4.29	-9.64	8.07	-1.57	-1	-0.57
	6105	31	be (320MHz)	120MHz	-13.68	-13.56	5.77	4.29	-10.61	8.07	-2.53	-1	-1.53
Band 6	6465	103	be (80MHz)	20MHz	-12.86	-12.36	5.77	4.29	-9.59	8.07	-1.52	-1	-0.52
	6505	111	be (160MHz)	20MHz	-13.24	-12.80	5.77	4.29	-10.00	8.07	-1.93	-1	-0.93
	6505	111	be (160MHz)	40MHz	-12.75	-12.86	5.77	4.29	-9.79	8.07	-1.72	-1	-0.72
Band 5/6/7	6425	95	be (320MHz)	40MHz	-14.34	-13.25	6.24	6.21	-10.75	9.24	-1.51	-1	-0.51
	6425	95	be (320MHz)	80MHz	-14.32	-13.28	6.24	6.21	-10.76	9.24	-1.52	-1	-0.52
	6425	95	be (320MHz)	120MHz	-14.17	-13.46	6.24	6.21	-10.79	9.24	-1.55	-1	-0.55
Band 7	6705	151	be (80MHz)	20MHz	-12.91	-12.46	4.22	4.21	-9.67	7.23	-2.45	-1	-1.45
	6665	143	be (160MHz)	20MHz	-13.37	-12.26	4.22	4.21	-9.77	7.23	-2.54	-1	-1.54
	6665	143	be (160MHz)	40MHz	-13.39	-12.63	4.22	4.21	-9.98	7.23	-2.76	-1	-1.76
Band 7/8	6745	159	be (320MHz)	40MHz	-13.38	-13.08	4.56	4.21	-10.22	7.40	-2.82	-1	-1.82
	6745	159	be (320MHz)	80MHz	-13.52	-13.30	4.56	4.21	-10.40	7.40	-3.00	-1	-2.00
	6745	159	be (320MHz)	120MHz	-13.92	-13.23	4.56	4.21	-10.55	7.40	-3.16	-1	-2.16
Band 8	7025	215	be (80MHz)	20MHz	-12.95	-12.57	4.56	4.21	-9.74	7.40	-2.35	-1	-1.35
	6985	207	be (160MHz)	20MHz	-13.01	-12.14	4.56	4.21	-9.54	7.40	-2.14	-1	-1.14
	6985	207	be (160MHz)	40MHz	-12.93	-12.13	4.56	4.21	-9.50	7.40	-2.10	-1	-1.10
Band 7/8	6905	191	be (320MHz)	40MHz	-13.25	-13.09	4.56	4.21	-10.16	7.40	-2.76	-1	-1.76
	6905	191	be (320MHz)	80MHz	-13.39	-12.83	4.56	4.21	-10.09	7.40	-2.69	-1	-1.69
Band 7/8	6905	191	be (320MHz)	120MHz	-14.00	-13.30	4.56	4.21	-10.62	7.40	-3.23	-1	-2.23

Table 7-40. MIMO e.i.r.p. Conducted Power Spectral Density Measurements – Punctured – LPI

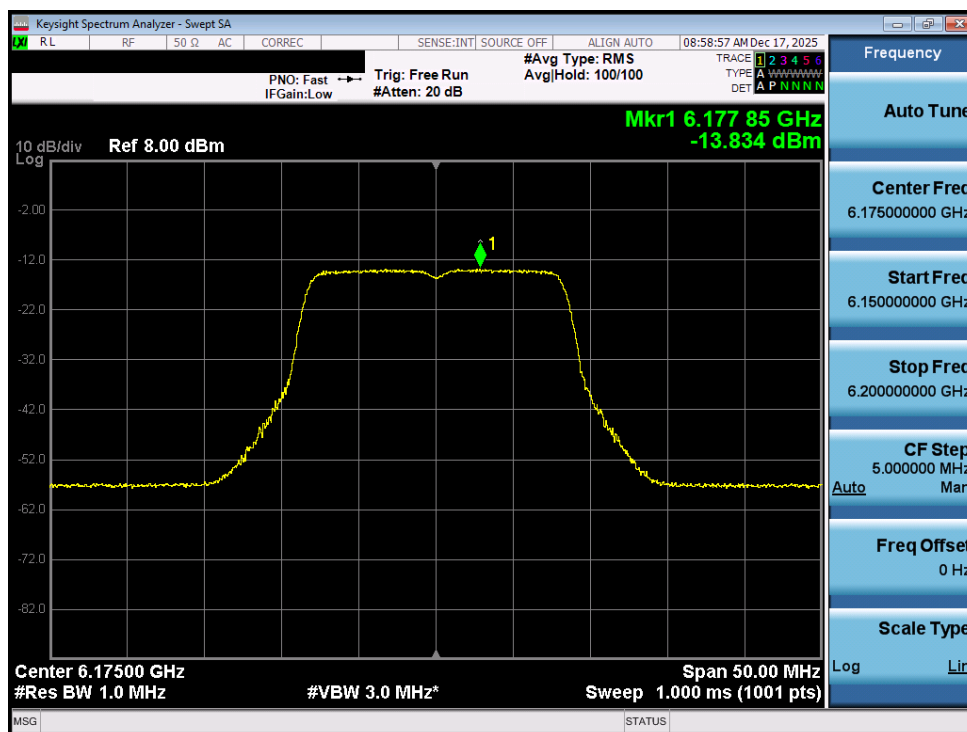
FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE		Approved by: Technical Manager
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	Frequency [MHz]	Channel	802.11 MODE	Puncture Size	Antenna-1 Power Density [dBm/MHz]	Antenna-2 Power Density [dBm/MHz]	Antenna-1 Gain [dBi]	Antenna-2 Gain [dBi]	Summed MIMO Power Density [dBm/MHz]	Directional Gain [dBi]	EIRP Density [dBm/MHz]	EIRP Density Limit [dBm/MHz]	Margin [dB]
Band 5	6145	39	be (80MHz)	20MHz	-0.44	-0.67	6.24	6.21	2.46	9.24	11.69	17	-5.31
	6185	47	be (160MHz)	40MHz	-2.70	-3.17	6.24	6.21	0.08	9.24	9.32	17	-7.68
	6185	47	be (160MHz)	20MHz	-3.53	-3.86	6.24	6.21	-0.68	9.24	8.55	17	-8.45
	6105	31	be (320MHz)	80MHz	-7.26	-6.86	5.77	4.29	-4.04	8.07	4.03	17	-12.97
Band 7	6105	31	be (320MHz)	120MHz	-7.27	-6.41	5.77	4.29	-3.81	8.07	4.26	17	-12.74
	6705	151	be (80MHz)	20MHz	1.07	1.89	4.22	4.21	4.51	7.23	11.73	17	-5.27
	6665	143	be (160MHz)	40MHz	-2.22	-1.57	4.22	4.21	1.13	7.23	8.35	17	-8.65
	6665	143	be (160MHz)	20MHz	-2.93	-2.03	4.22	4.21	0.56	7.23	7.78	17	-9.22
Band 7/8	6745	159	be (320MHz)	80MHz	-7.91	-6.78	4.56	4.21	-4.30	7.40	3.10	17	-13.90
	6745	159	be (320MHz)	120MHz	-7.91	-6.35	4.56	4.21	-4.05	7.40	3.35	17	-13.65

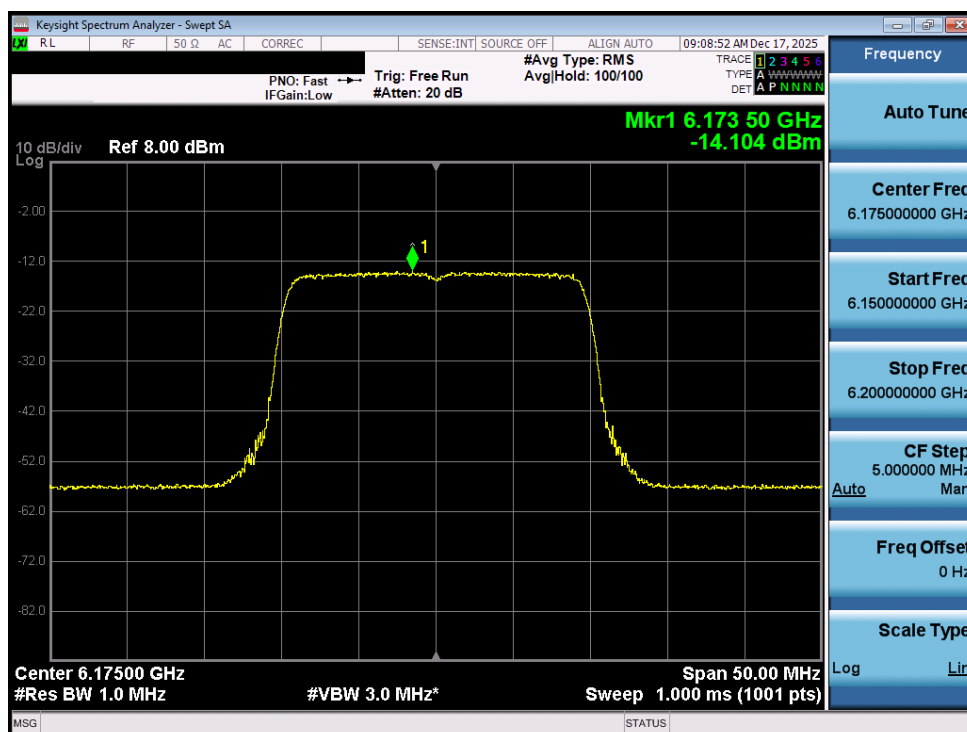
Table 7-41. MIMO e.i.r.p. Conducted Power Spectral Density Measurements – Punctured - SP

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE		Approved by: Technical Manager
Test Report S/N: 1M2511200095-08-R2.C3K	Test Dates: 12/16/2025 - 02/17/2026	EUT Type: Portable Computing Device	Page 52 of 140

MIMO Antenna-1 Power Spectral Density Measurements - (UNII Band 5) - LPI

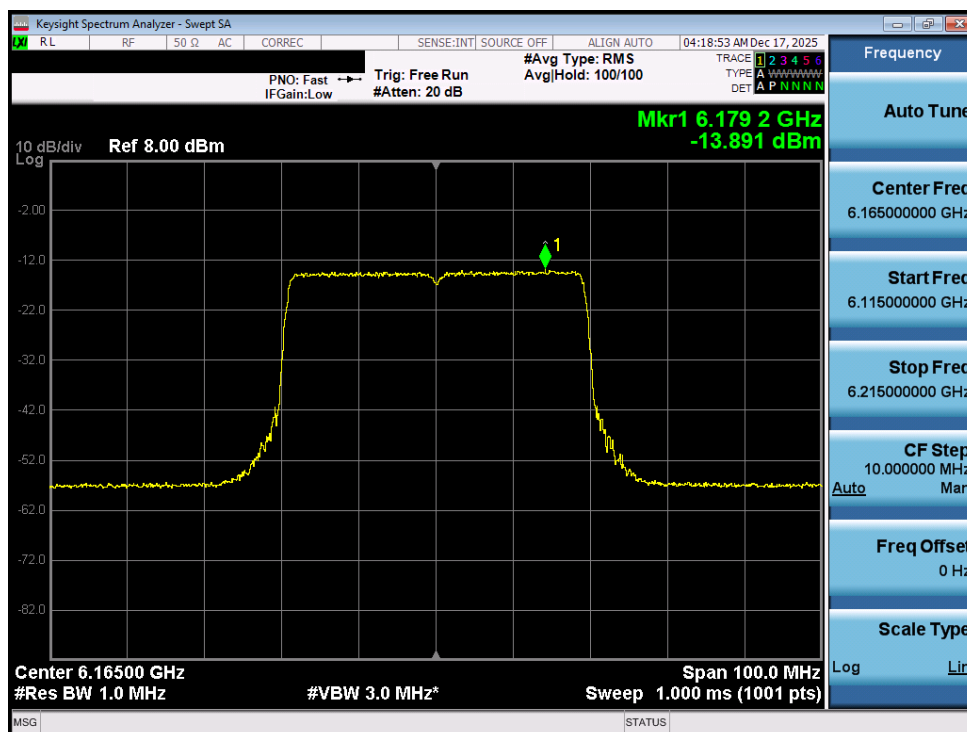


Plot 7-31. Power Spectral Density MIMO ANT1 (20MHz 802.11a (UNII Band 5) – Ch. 45)

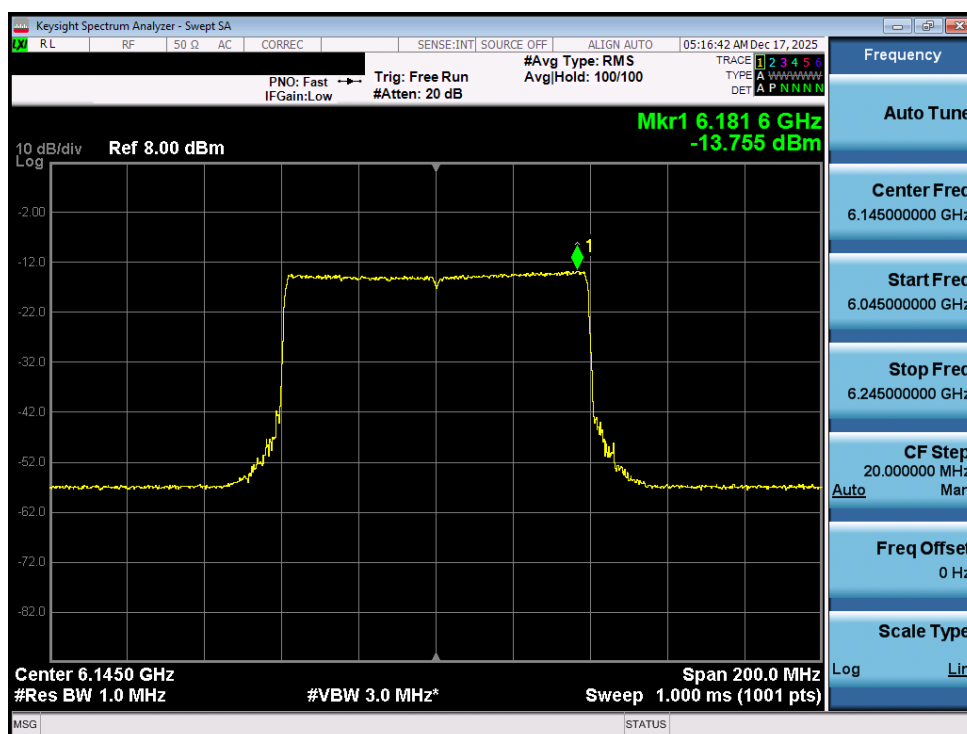


Plot 7-32. Power Spectral Density MIMO ANT1 (20MHz 802.11ax/be (UNII Band 5) – Ch. 45)

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE		Approved by: Technical Manager
Test Report S/N: 1M2511200095-08-R2.C3K	Test Dates: 12/16/2025 - 02/17/2026	EUT Type: Portable Computing Device	Page 53 of 140

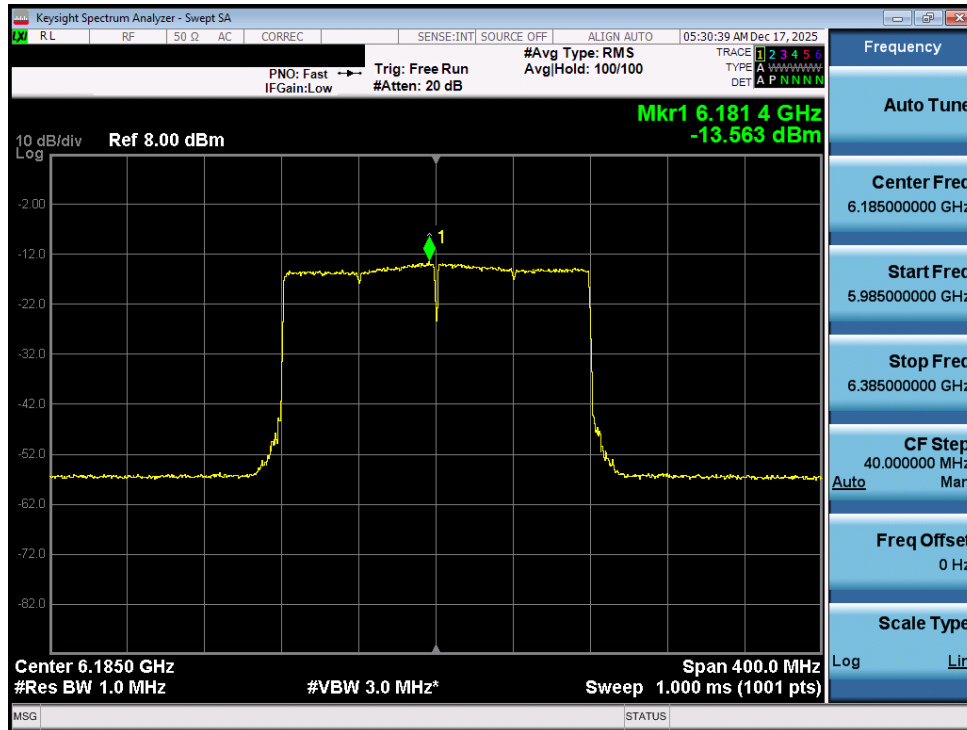


Plot 7-33. Power Spectral Density MIMO ANT1 (40MHz 802.11ax/be (UNII Band 5) – Ch. 43)

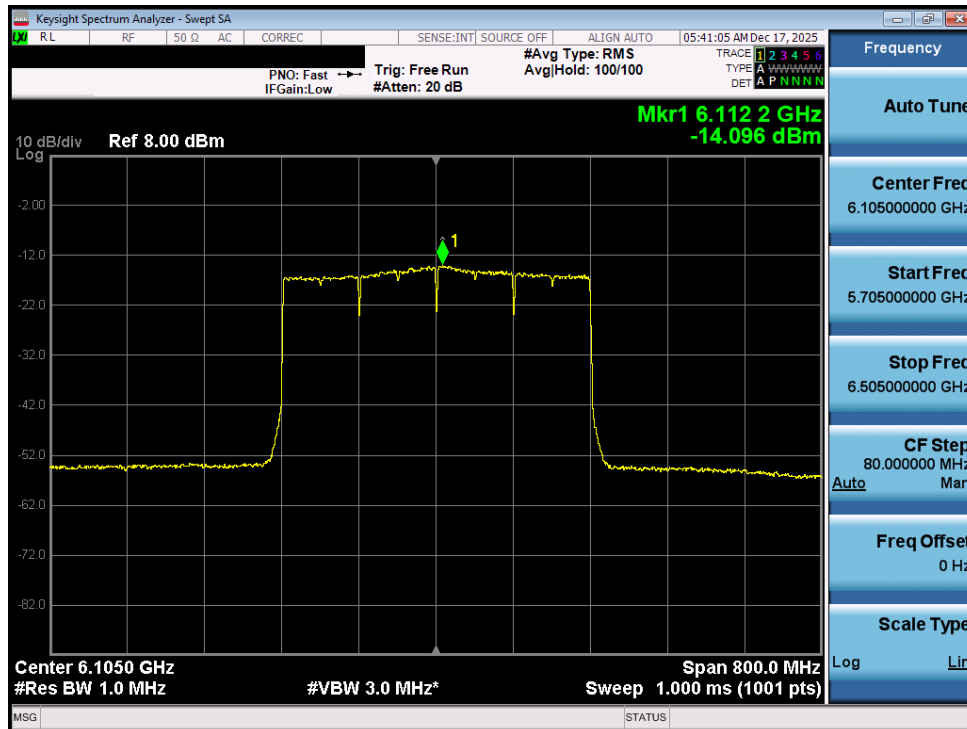


Plot 7-34. Power Spectral Density MIMO ANT1 (80MHz 802.11ax/be (UNII Band 5) – Ch. 39)

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE		Approved by: Technical Manager
Test Report S/N: 1M2511200095-08-R2.C3K	Test Dates: 12/16/2025 - 02/17/2026	EUT Type: Portable Computing Device	Page 54 of 140



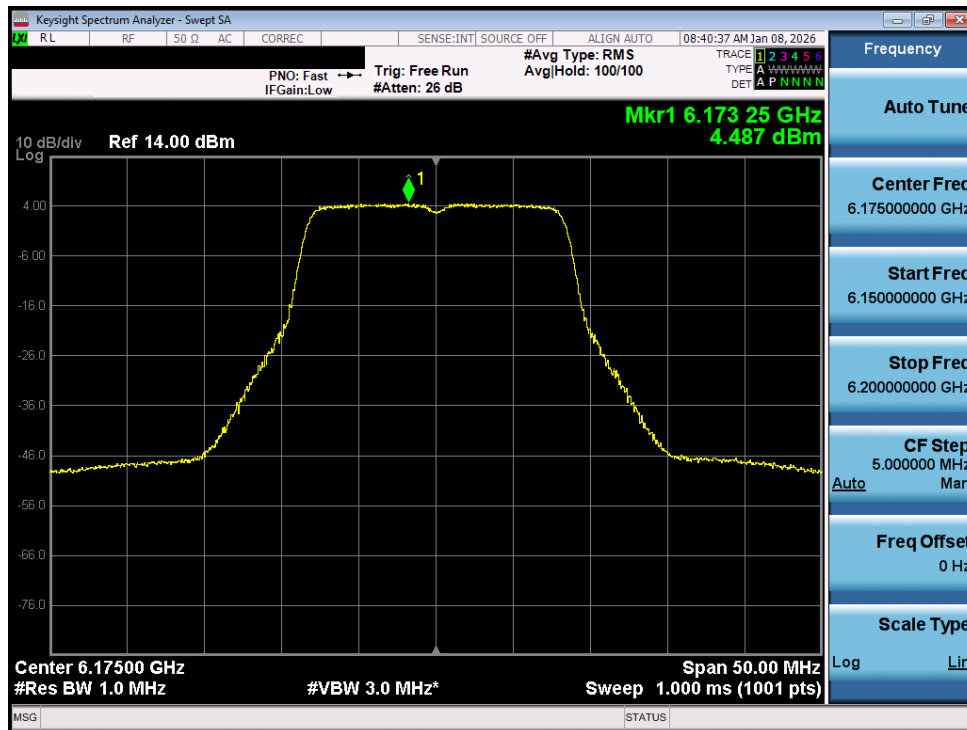
Plot 7-35. Power Spectral Density MIMO ANT1 (160MHz 802.11ax/be (UNII Band 5) – Ch. 47)



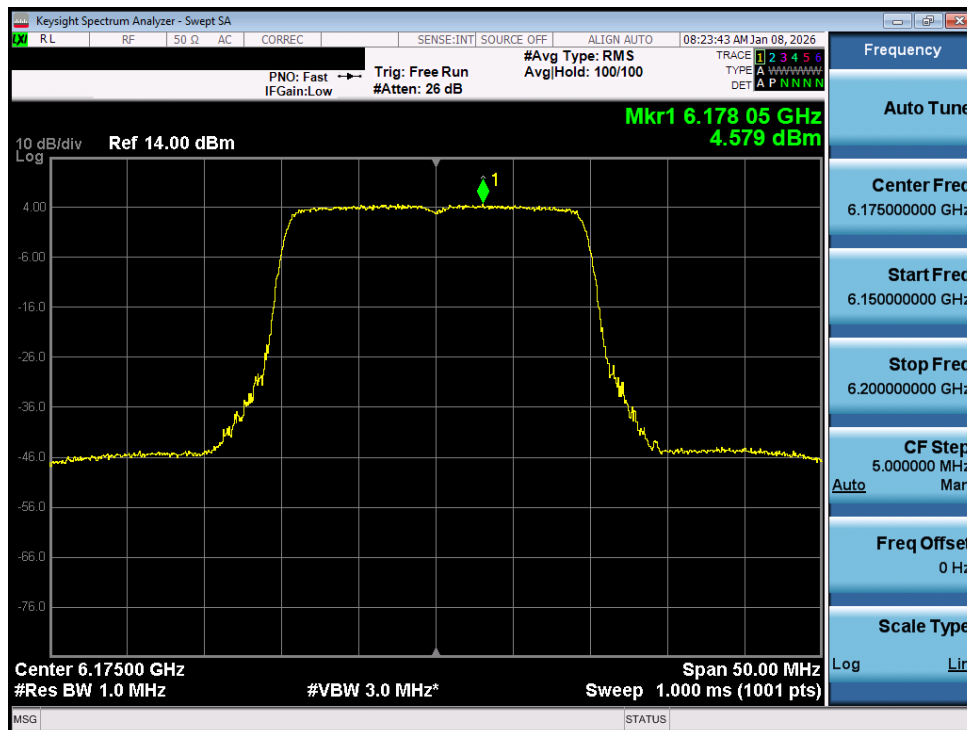
Plot 7-36. Power Spectral Density MIMO ANT1 (320MHz 802.11ax/be (UNII Band 5) – Ch.31)

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE		Approved by: Technical Manager
Test Report S/N: 1M2511200095-08-R2.C3K	Test Dates: 12/16/2025 - 02/17/2026	EUT Type: Portable Computing Device	Page 55 of 140

MIMO Antenna-1 Power Spectral Density Measurements - (UNII Band 5) - SP

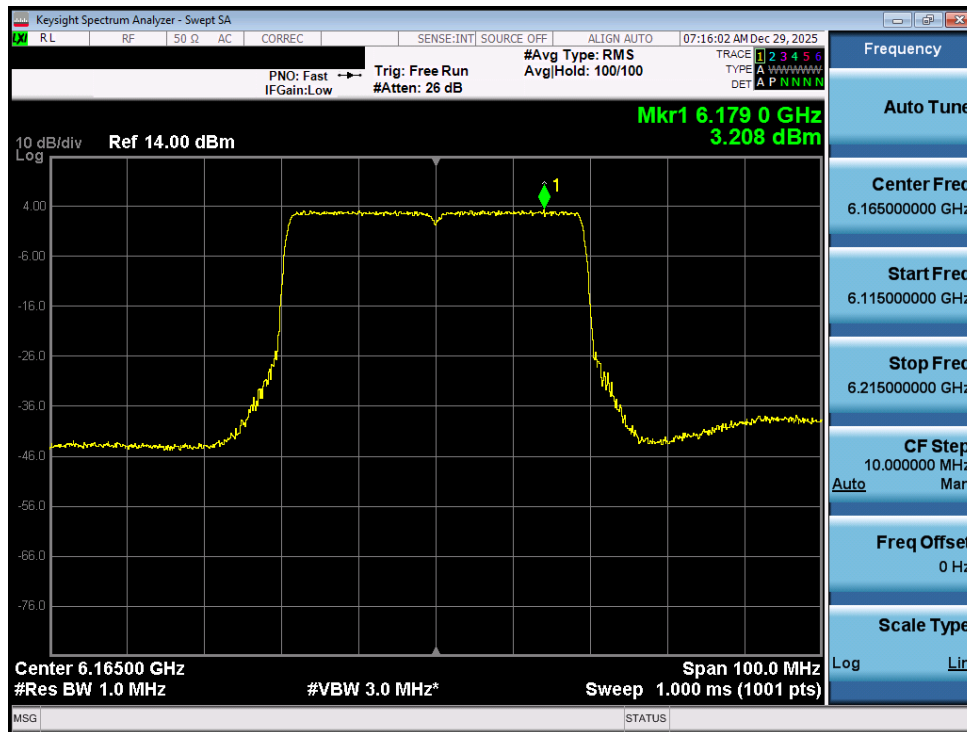


Plot 7-37. Power Spectral Density MIMO ANT1 (20MHz 802.11a (UNII Band 5) – Ch. 45) - SP

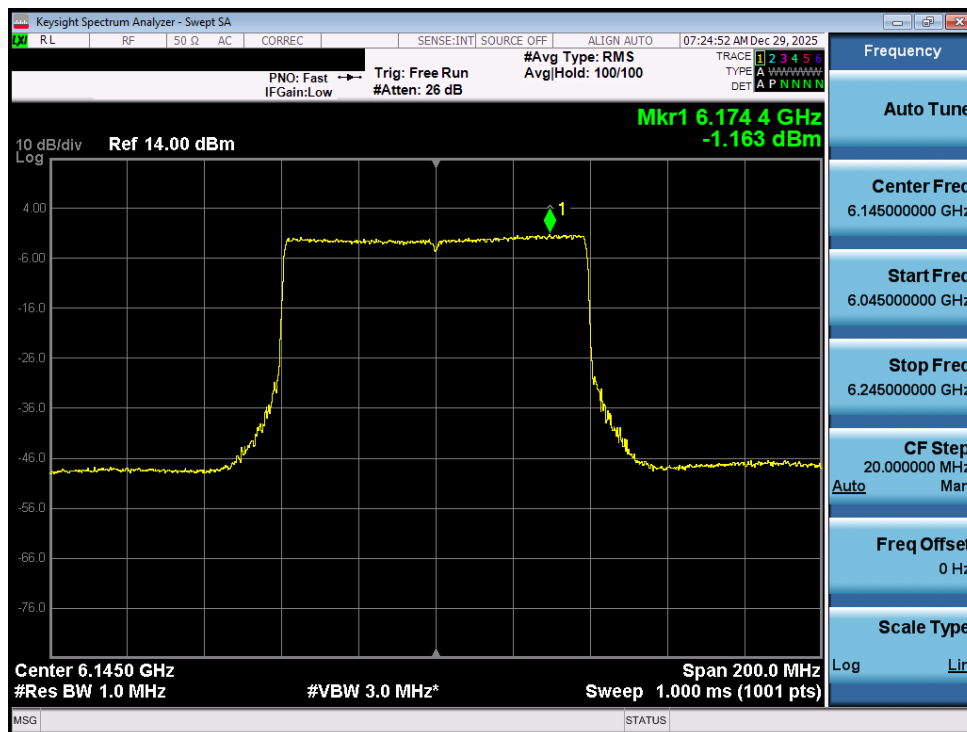


Plot 7-38. Power Spectral Density MIMO ANT1 (20MHz 802.11ax/be (UNII Band 5) – Ch. 45) - SP

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE		Approved by: Technical Manager
Test Report S/N: 1M2511200095-08-R2.C3K	Test Dates: 12/16/2025 - 02/17/2026	EUT Type: Portable Computing Device	Page 56 of 140

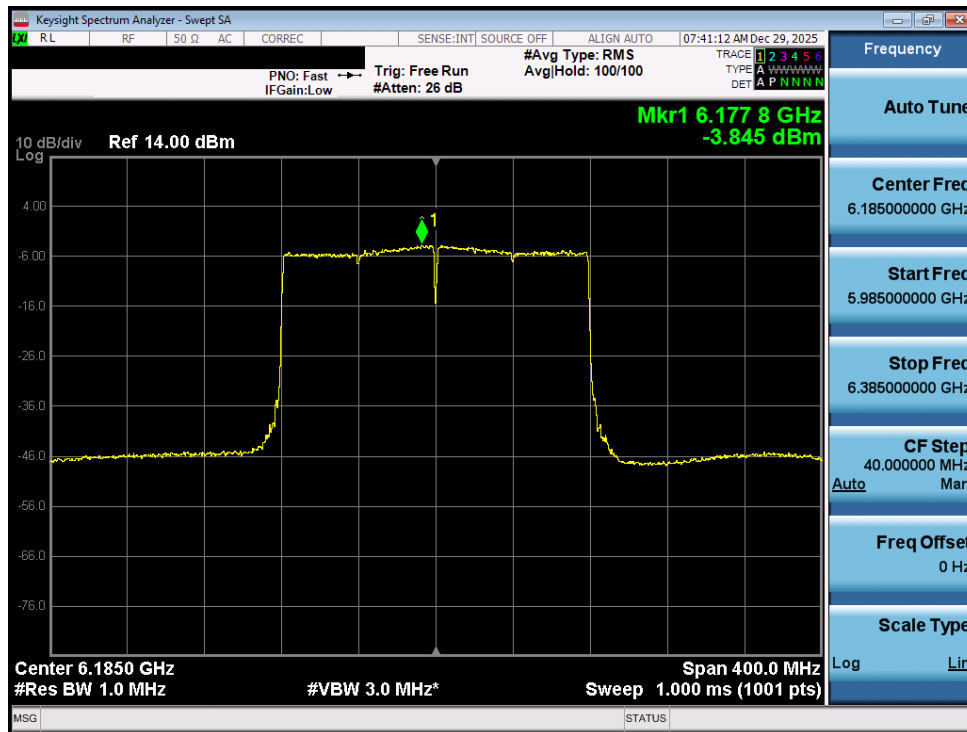


Plot 7-39. Power Spectral Density MIMO ANT1 (40MHz 802.11ax/be (UNII Band 5) – Ch. 43) - SP

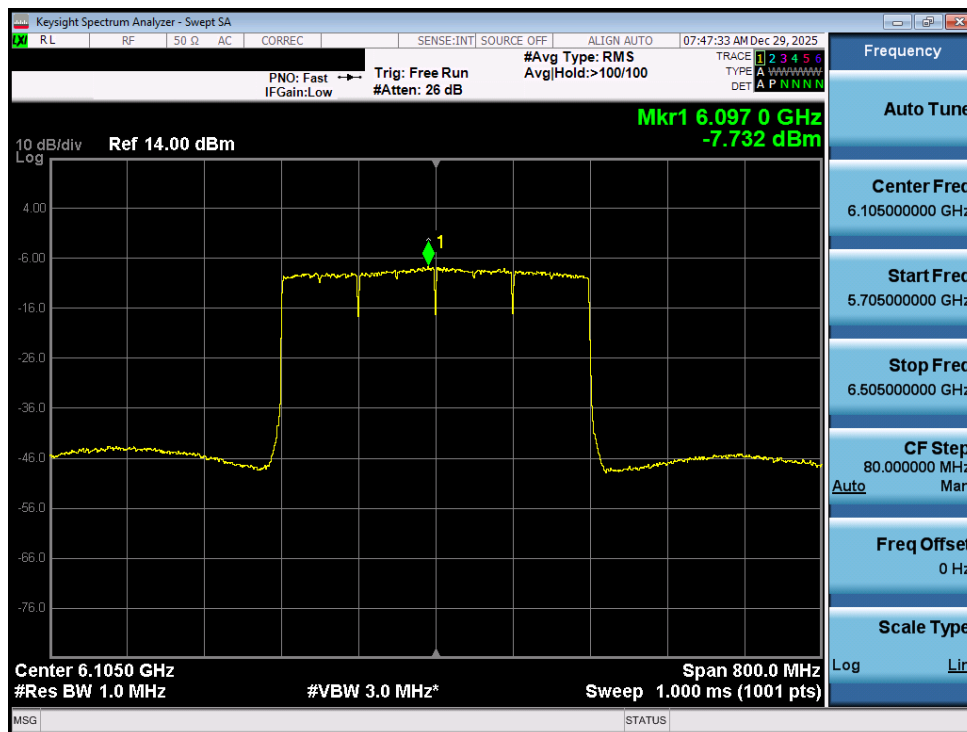


Plot 7-40. Power Spectral Density MIMO ANT1 (80MHz 802.11ax/be (UNII Band 5) – Ch. 39) - SP

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE		Approved by: Technical Manager
Test Report S/N: 1M2511200095-08-R2.C3K	Test Dates: 12/16/2025 - 02/17/2026	EUT Type: Portable Computing Device	Page 57 of 140



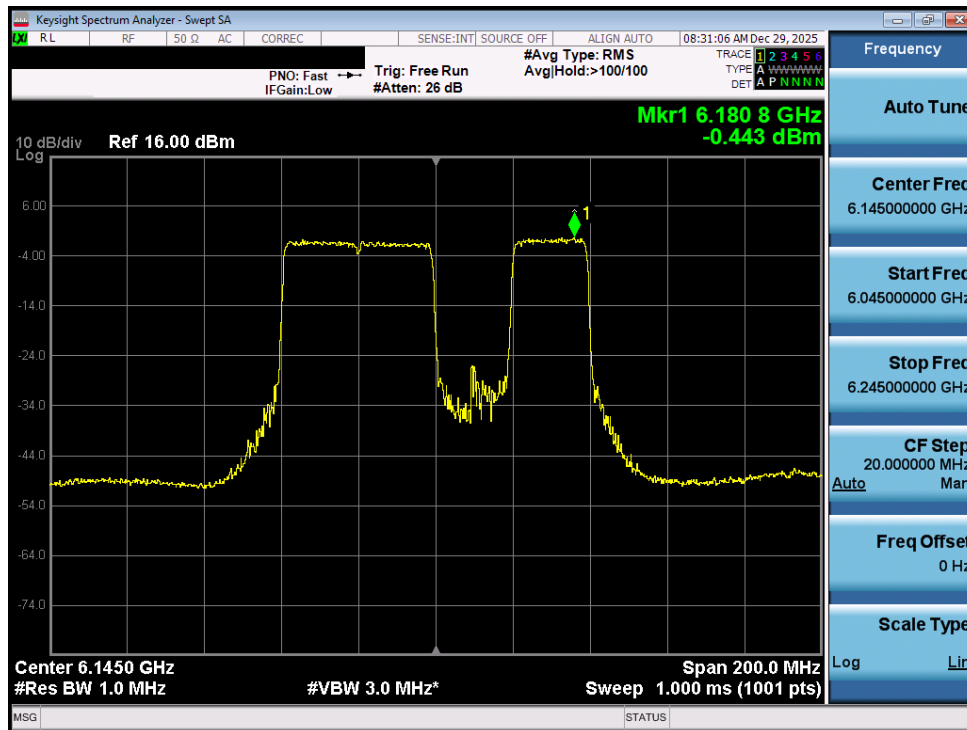
Plot 7-41. Power Spectral Density MIMO ANT1 (160MHz 802.11ax/be (UNII Band 5) – Ch. 47) - SP



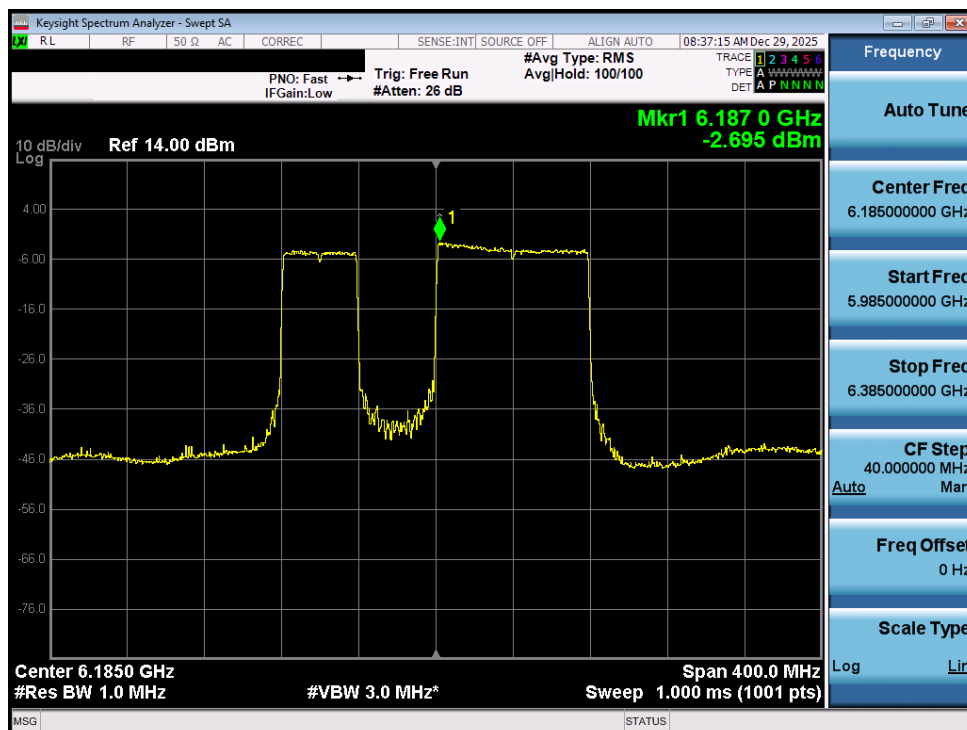
Plot 7-42. Power Spectral Density MIMO ANT1 (320MHz 802.11ax/be (UNII Band 5) – Ch.31) - SP

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE		Approved by: Technical Manager
Test Report S/N: 1M2511200095-08-R2.C3K	Test Dates: 12/16/2025 - 02/17/2026	EUT Type: Portable Computing Device	Page 58 of 140

MIMO Antenna-1 Power Spectral Density Measurements - (UNII Band 5) - Punctured

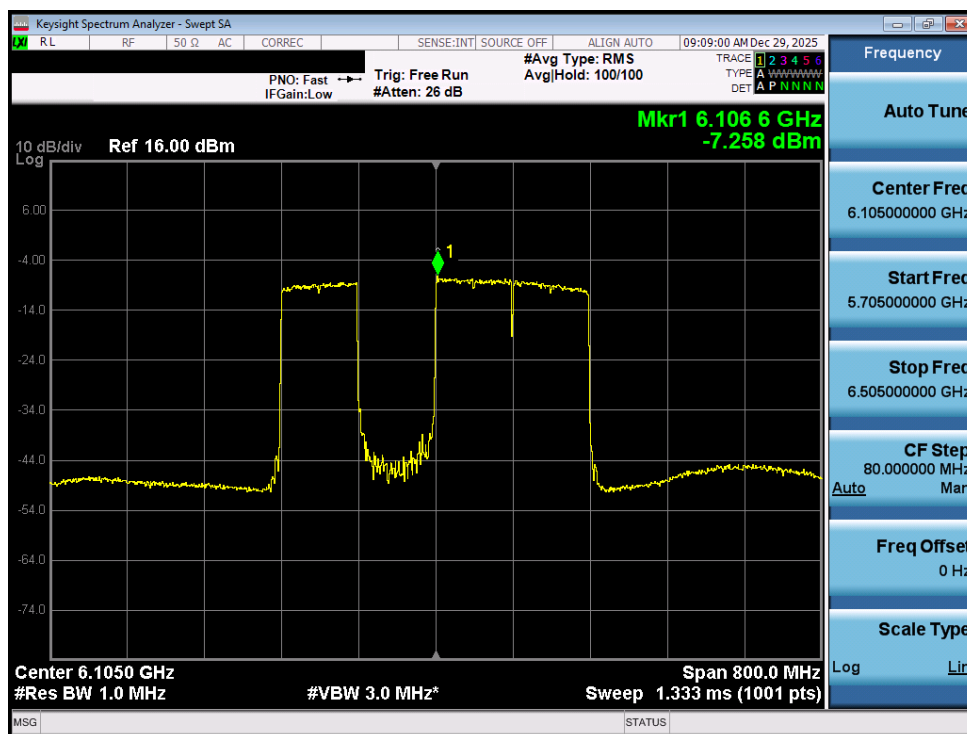


Plot 7-43. Power Spectral Density Plot MIMO ANT1 (80MHz 802.11be (UNII Band 5) – Ch. 39) - Punctured



Plot 7-44. Power Spectral Density Plot MIMO ANT1 (160MHz 802.11ax/be (UNII Band 5) – Ch. 47) - Punctured

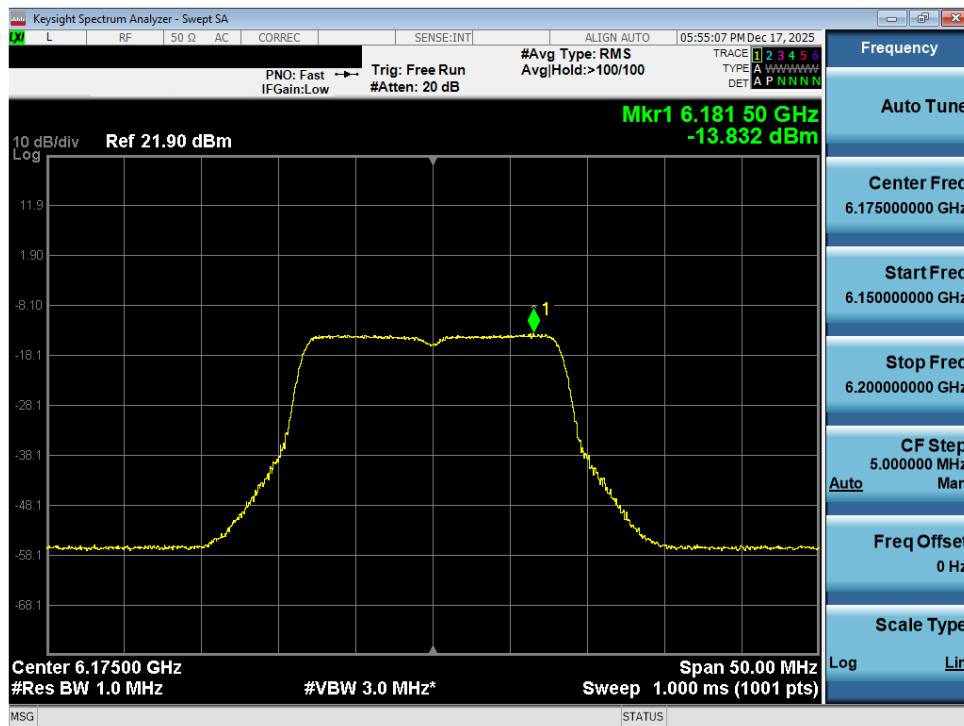
FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE		Approved by: Technical Manager
Test Report S/N: 1M2511200095-08-R2.C3K	Test Dates: 12/16/2025 - 02/17/2026	EUT Type: Portable Computing Device	Page 59 of 140



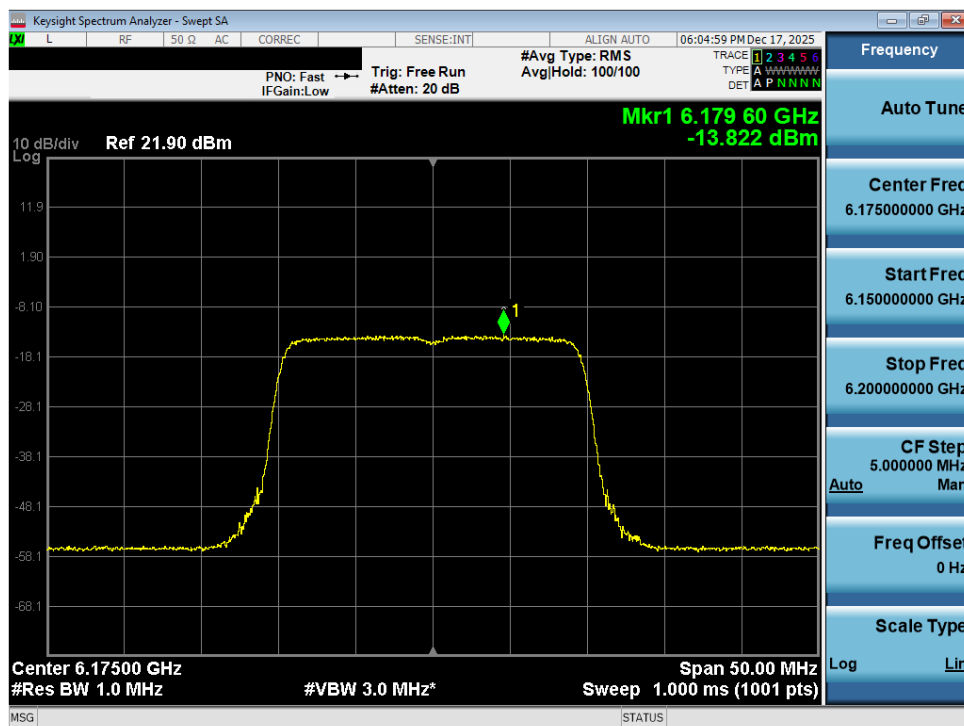
Plot 7-45. Power Spectral Density Plot MIMO ANT1 (320MHz 802.11ax/be (UNII Band 5) – Ch. 31) - Punctured

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE		Approved by: Technical Manager
Test Report S/N: 1M2511200095-08-R2.C3K	Test Dates: 12/16/2025 - 02/17/2026	EUT Type: Portable Computing Device	Page 60 of 140

MIMO Antenna-2 Power Spectral Density Measurements - (UNII Band 5) - LPI

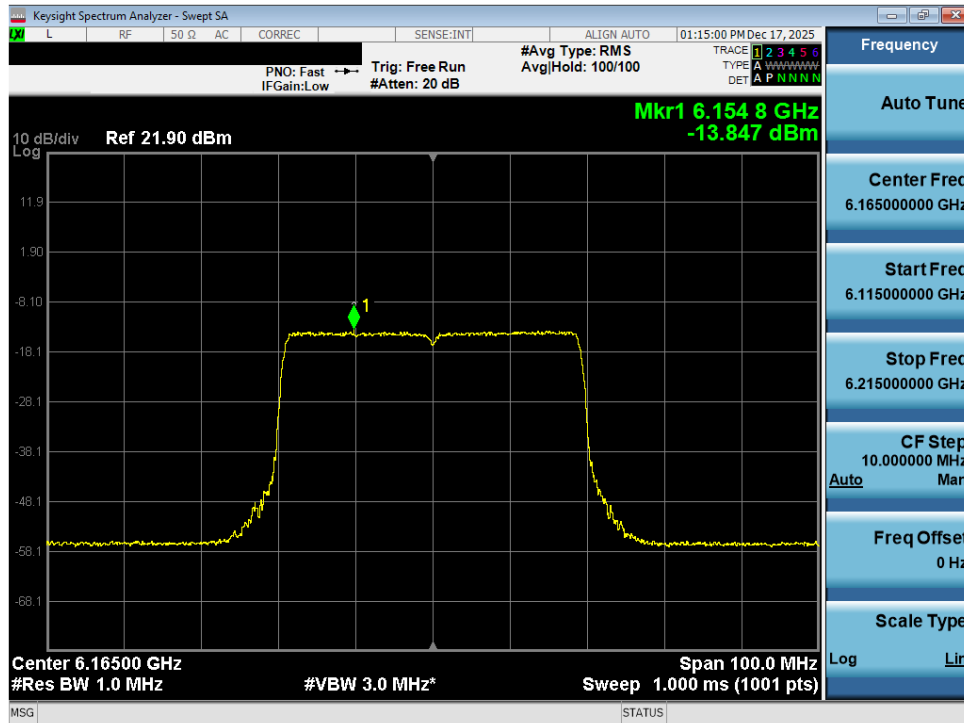


Plot 7-46. Power Spectral Density MIMO ANT2 (20MHz 802.11a (UNII Band 5) – Ch. 45)

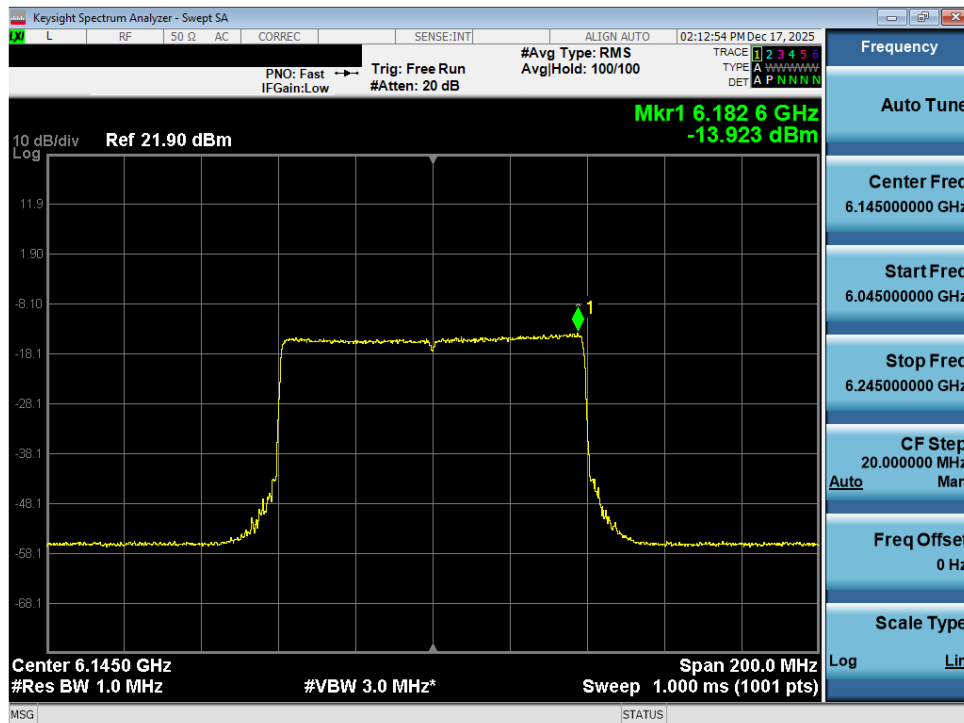


Plot 7-47. Power Spectral Density MIMO ANT2 (20MHz 802.11ax/be (UNII Band 5) – Ch. 45)

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE		Approved by: Technical Manager
Test Report S/N: 1M2511200095-08-R2.C3K	Test Dates: 12/16/2025 - 02/17/2026	EUT Type: Portable Computing Device	Page 61 of 140

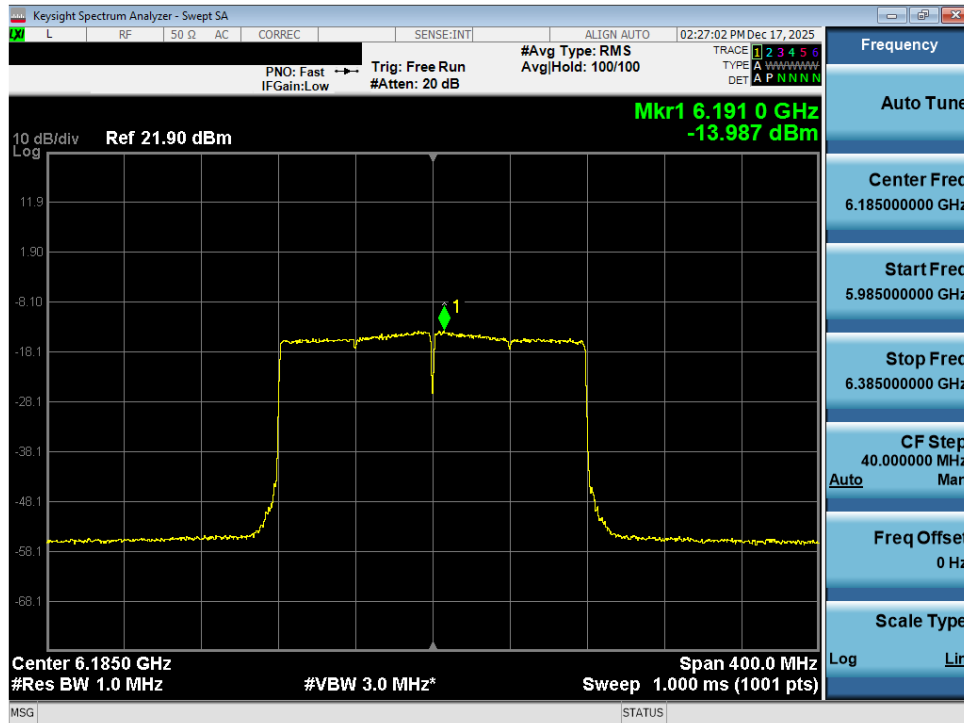


Plot 7-48. Power Spectral Density MIMO ANT2 (40MHz 802.11ax/be (UNII Band 5) – Ch. 43)

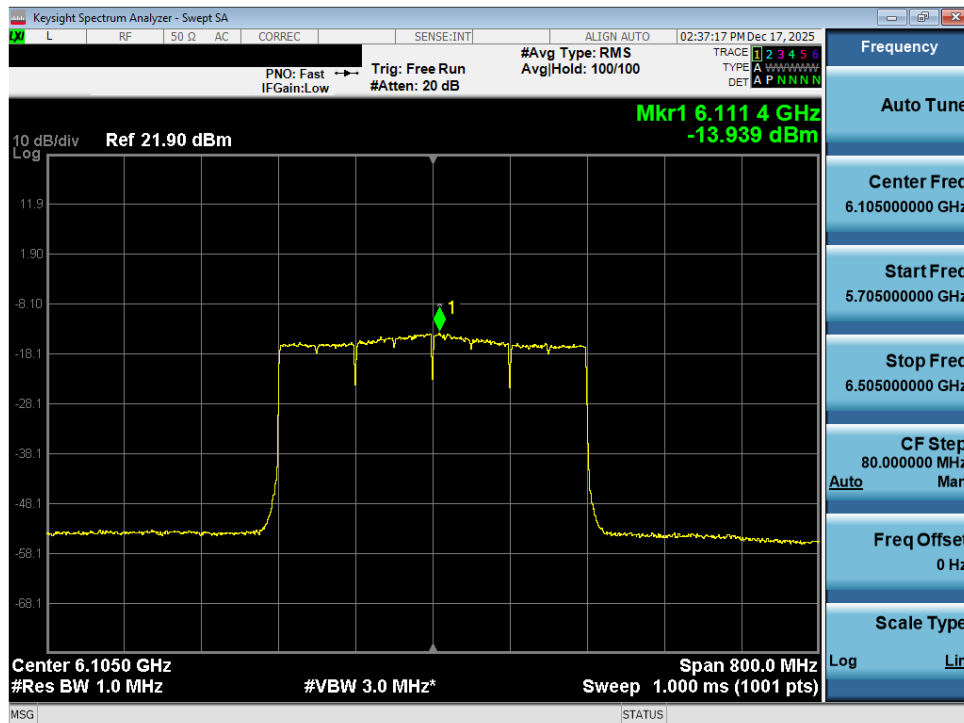


Plot 7-49. Power Spectral Density MIMO ANT2 (80MHz 802.11ax/be (UNII Band 5) – Ch. 39)

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE		Approved by: Technical Manager
Test Report S/N: 1M2511200095-08-R2.C3K	Test Dates: 12/16/2025 - 02/17/2026	EUT Type: Portable Computing Device	Page 62 of 140



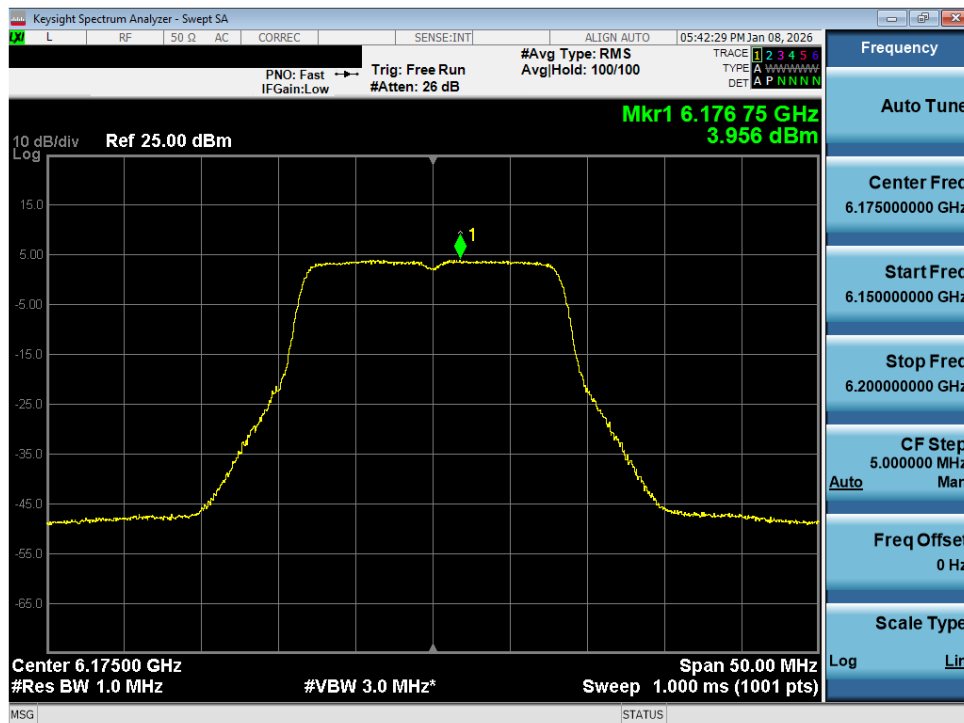
Plot 7-50. Power Spectral Density MIMO ANT2 (160MHz 802.11ax/be (UNII Band 5) – Ch. 47)



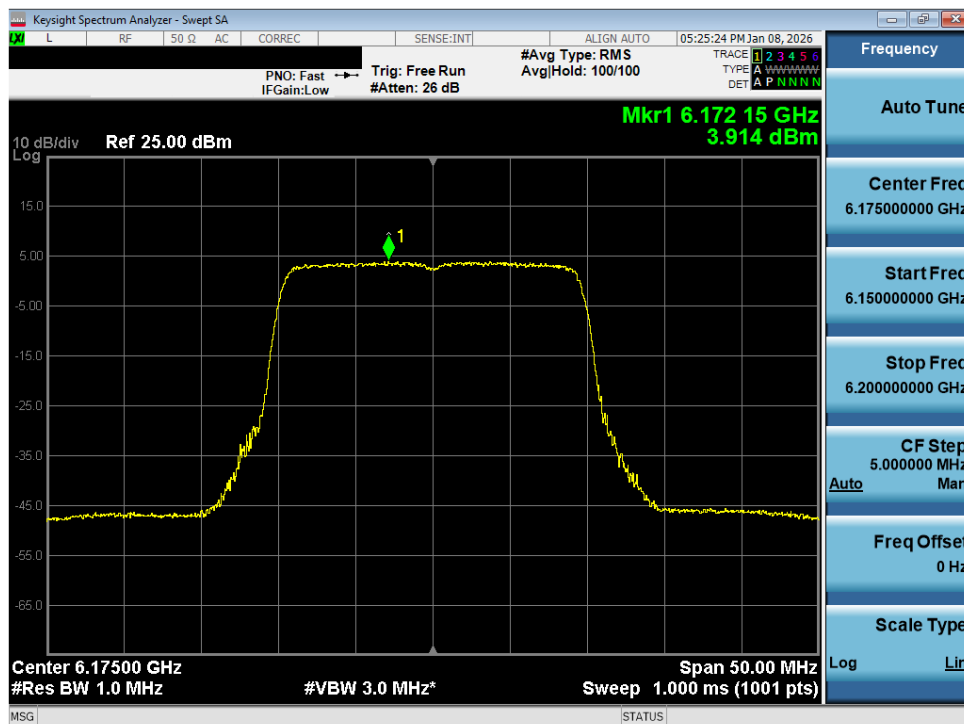
Plot 7-51. Power Spectral Density MIMO ANT2 (320MHz 802.11ax/be (UNII Band 5) – Ch.31)

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE		Approved by: Technical Manager
Test Report S/N: 1M2511200095-08-R2.C3K	Test Dates: 12/16/2025 - 02/17/2026	EUT Type: Portable Computing Device	Page 63 of 140

MIMO Antenna-2 Power Spectral Density Measurements - (UNII Band 5) - SP

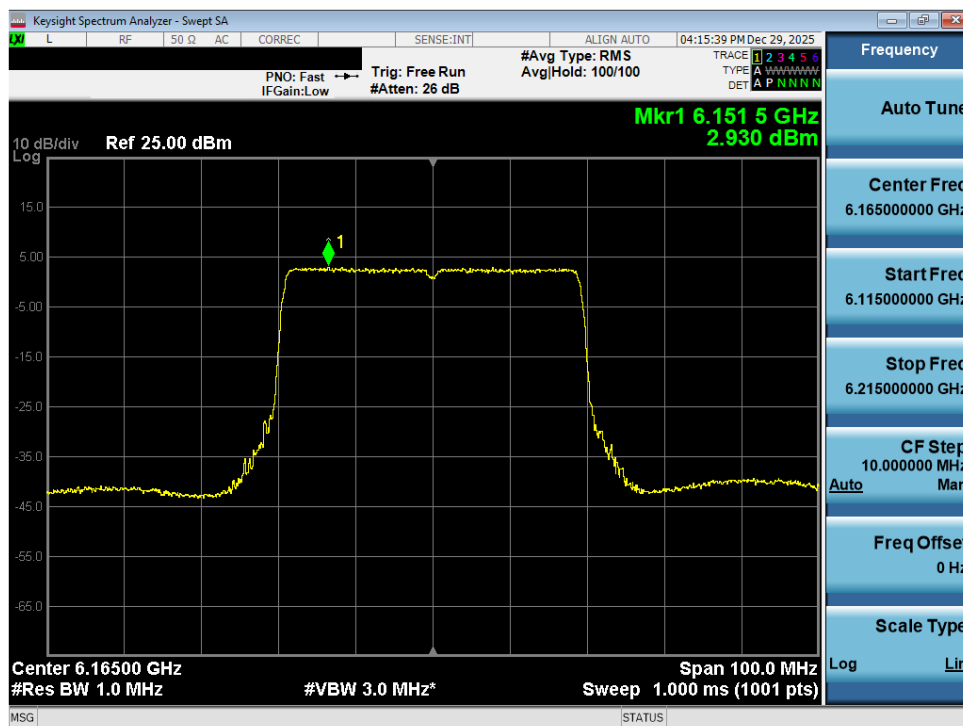


Plot 7-52. Power Spectral Density MIMO ANT2 (20MHz 802.11a (UNII Band 5) – Ch. 45) - SP

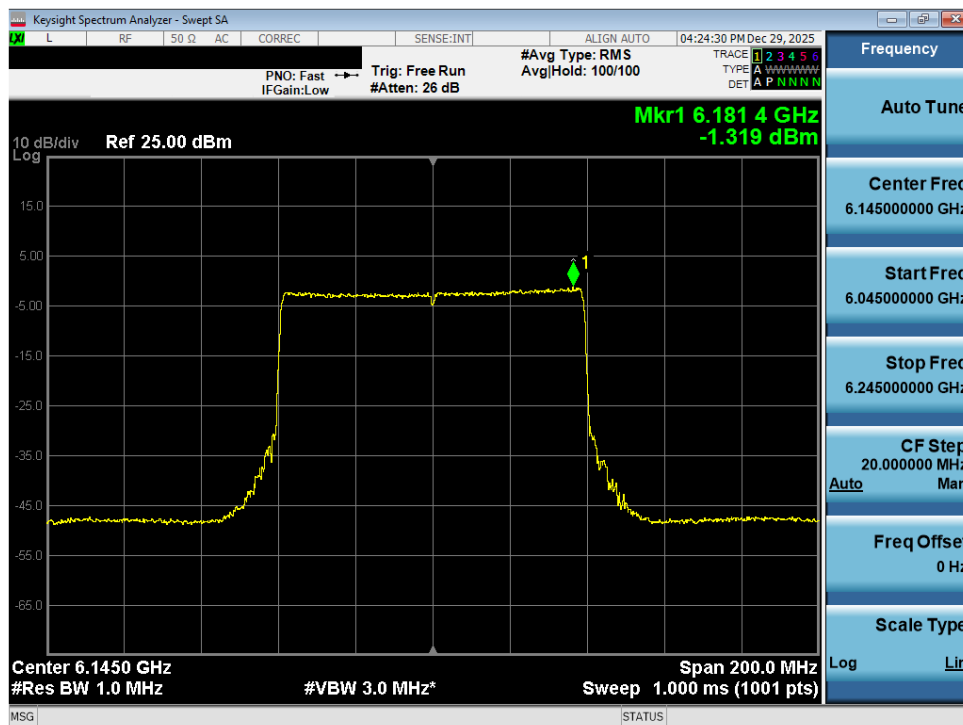


Plot 7-53. Power Spectral Density MIMO ANT2 (20MHz 802.11ax/be (UNII Band 5) – Ch. 45) - SP

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE		Approved by: Technical Manager
Test Report S/N: 1M2511200095-08-R2.C3K	Test Dates: 12/16/2025 - 02/17/2026	EUT Type: Portable Computing Device	Page 64 of 140

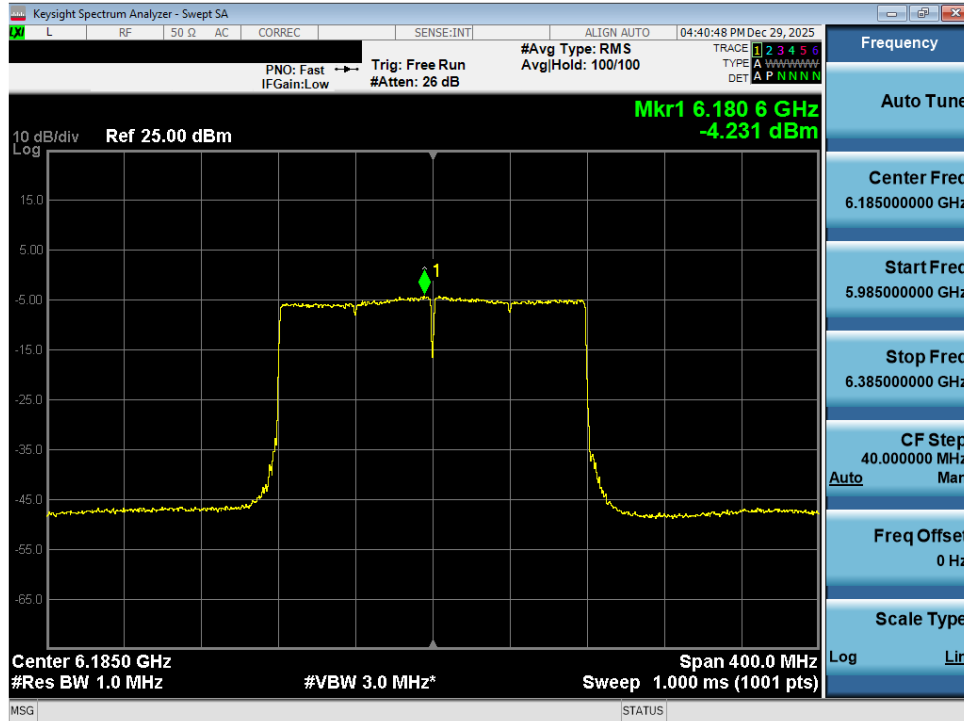


Plot 7-54. Power Spectral Density MIMO ANT2 (40MHz 802.11ax/be (UNII Band 5) – Ch. 43) - SP

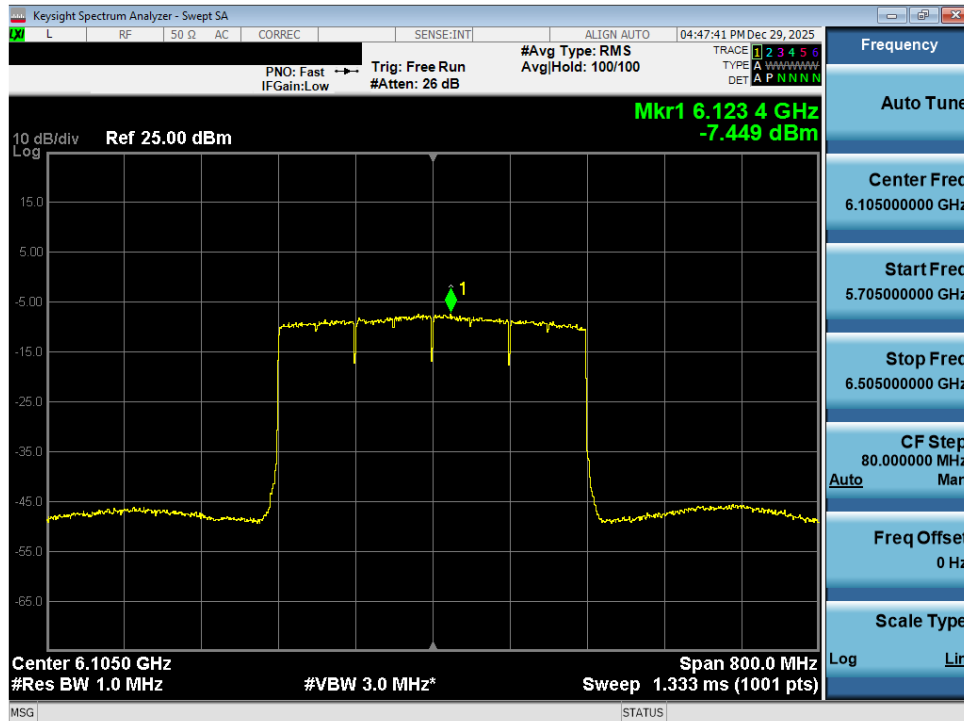


Plot 7-55. Power Spectral Density MIMO ANT2 (80MHz 802.11ax/be (UNII Band 5) – Ch. 39) - SP

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE		Approved by: Technical Manager
Test Report S/N: 1M2511200095-08-R2.C3K	Test Dates: 12/16/2025 - 02/17/2026	EUT Type: Portable Computing Device	Page 65 of 140



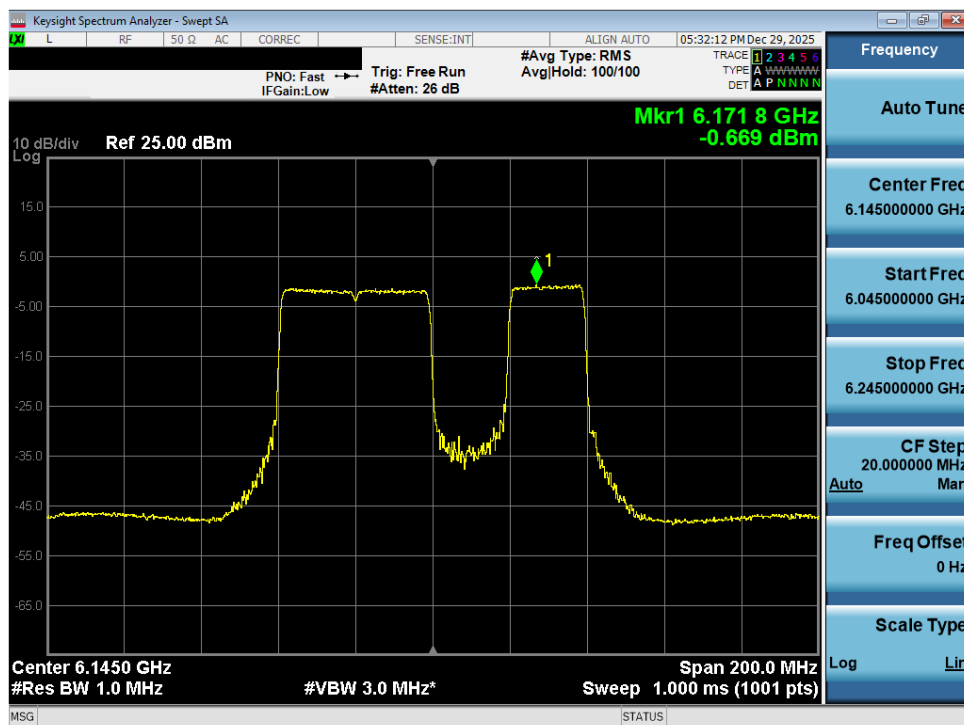
Plot 7-56. Power Spectral Density MIMO ANT2 (160MHz 802.11ax/be (UNII Band 5) – Ch. 47) - SP



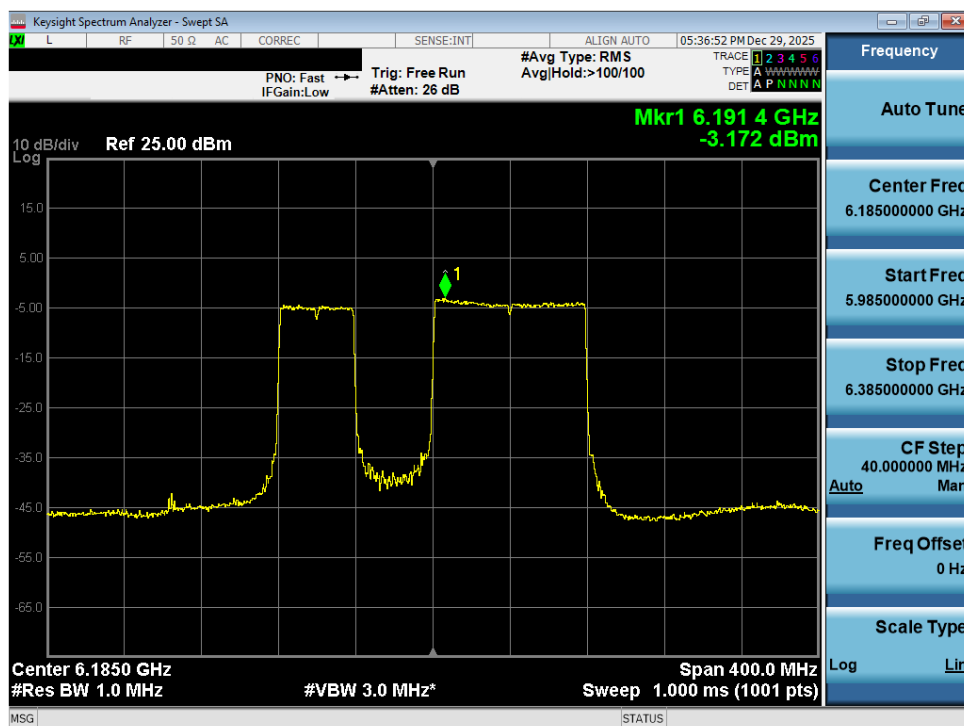
Plot 7-57. Power Spectral Density MIMO ANT2 (320MHz 802.11ax/be (UNII Band 5) – Ch.31) - SP

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE		Approved by: Technical Manager
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MIMO Antenna-2 Power Spectral Density Measurements - (UNII Band 5) - Punctured

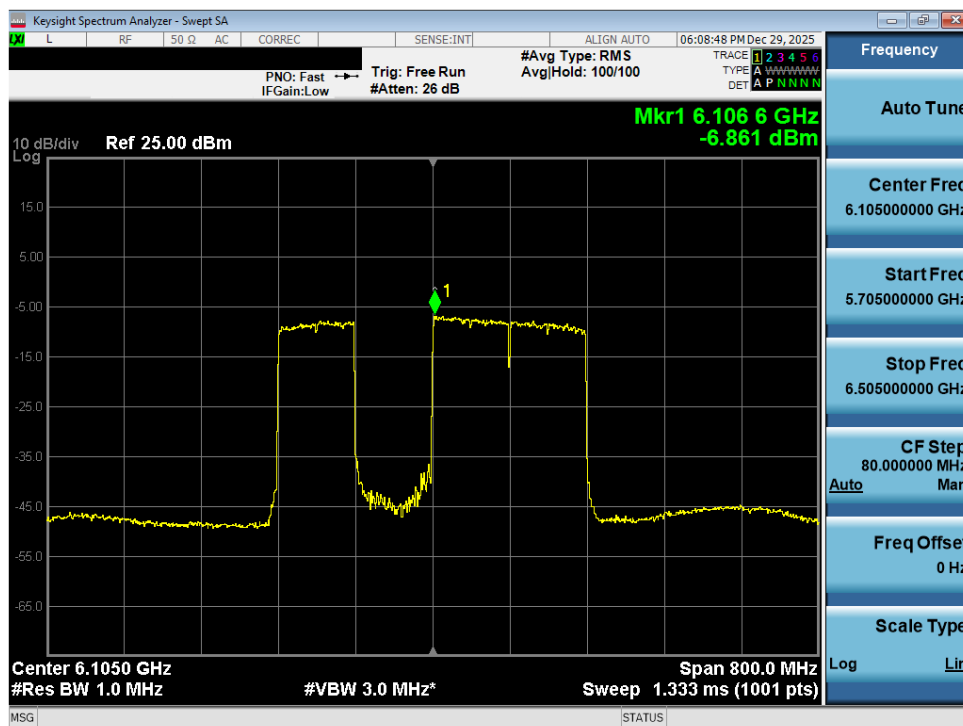


Plot 7-58. Power Spectral Density Plot MIMO ANT2 (80MHz 802.11be (UNII Band 5) – Ch. 39) - Punctured



Plot 7-59. Power Spectral Density Plot MIMO ANT2 (160MHz 802.11ax/be (UNII Band 5) – Ch. 47) - Punctured

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE		Approved by: Technical Manager
Test Report S/N: 1M2511200095-08-R2.C3K	Test Dates: 12/16/2025 - 02/17/2026	EUT Type: Portable Computing Device	Page 67 of 140



Plot 7-60. Power Spectral Density Plot MIMO ANT2 (320MHz 802.11ax/be (UNII Band 5) – Ch. 31) - Punctured

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE		Approved by: Technical Manager
Test Report S/N: 1M2511200095-08-R2.C3K	Test Dates: 12/16/2025 - 02/17/2026	EUT Type: Portable Computing Device	Page 68 of 140

Note:

Per ANSI C63.10-2013 Section 14.3.2.2 and KDB 662911 v02r01 Section E)2), the power spectral density at Antenna 1 and Antenna 2 were first measured separately as shown in the section above. The measured values were then summed in linear power units then converted back to dBm.

Per ANSI C63.10-2013 Section 14.4.3, the directional gain is calculated using the following formula, where G_N is the gain of the n th antenna and N_{ANT} , the total number of antennas used.

$$\text{Directional gain} = 10 \log[(10^{G_1/20} + 10^{G_2/20} + \dots + 10^{G_N/20})^2 / N_{ANT}] \text{ dBi}$$

Sample MIMO Calculation:

At 5935MHz in 802.11a (20MHz BW) mode, the average conducted power spectral density was measured to be 4.06 dBm for Antenna-1 and 3.54 dBm for Antenna-2.

Antenna 1 + Antenna 2 = MIMO

$$(4.06 \text{ dBm} + 3.54 \text{ dBm}) = (2.55 \text{ mW} + 2.26 \text{ mW}) = 4.81 \text{ mW} = 6.82 \text{ dBm}$$

Sample e.i.r.p Power Spectral Density Calculation:

At 5935 MHz in 802.11a (20MHz BW) mode, the average MIMO power density was calculated to be 6.82 dBm with directional gain of 9.24 dBi.

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

$$6.82 \text{ dBm} + 9.24 \text{ dBi} = 16.06 \text{ dBm}$$

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7.5 In-Band Emissions

Test Overview and Limit

The spectrum analyzer was connected to the antenna terminal while the EUT was operating at its maximum duty cycle, at its maximum power control level, as defined in ANSI C63.10-2013, and at the appropriate frequencies.

For transmitters operating within the 5.925-7.125 GHz bands: Power spectral density must be suppressed by 20 dB at 1 MHz outside of channel edge, by 28 dB at one channel bandwidth from the channel center, and by 40 dB at one- and one-half times the channel bandwidth away from channel center. At frequencies between one megahertz outside an unlicensed device's channel edge and one channel bandwidth from the center of the channel, the limits must be linearly interpolated between 20 dB and 28 dB suppression, and at frequencies between one and one- and one-half times an unlicensed device's channel bandwidth, the limits must be linearly interpolated between 28 dB and 40 dB suppression. Emissions removed from the channel center by more than one- and one-half times the channel bandwidth must be suppressed by at least 40 dB.

Test Procedure Used

KDB 987594 D02 v02r01

Test Settings

1. Connect output of the antenna port to a spectrum analyzer or EMI receiver, with appropriate attenuation, as to not damage the instrumentation.
2. Set the reference level of the measuring equipment in accordance with procedure 4.1.5.2 of ANSI C63.10- 2013.
3. Measure the 26 dB EBW using the test procedure 12.4.1 of ANSI C63.10-2013. (This will be used to determine the channel edge.)
4. Measure the power spectral density (which will be used for emissions mask reference) using the following procedure:
 - a) Set the span to encompass the entire 26 dB EBW of the signal.
 - b) Set RBW = same RBW used for 26 dB EBW measurement.
 - c) Set VBW $\geq 3 \times$ RBW
 - d) Number of points in sweep $\geq [2 \times \text{span} / \text{RBW}]$.
 - e) Sweep time = auto.
 - f) Detector = RMS (i.e., power averaging)
 - g) Trace average at least 100 traces in power averaging (rms) mode.
 - h) Use the peak search function on the instrument to find the peak of the spectrum.
5. For the purposes of developing the emission mask, the channel bandwidth is defined as the 26 dB EBW.
6. Using the measuring equipment limit line function, develop the emissions mask based on the following requirements. The emissions power spectral density must be reduced below the peak power spectral density (in dB) as follows:
 - i) Suppressed by 20 dB at 1 MHz outside of the channel edge. (The channel edge is defined as the 26-dB point on either side of the carrier center frequency.)
 - j) Suppressed by 28 dB at one channel bandwidth from the channel center.
 - k) Suppressed by 40 dB at one- and one-half times the channel bandwidth from the channel center.
7. Adjust the span to encompass the entire mask as necessary.
8. Clear trace.
9. Trace average at least 100 traces in power averaging (rms) mode.
10. Adjust the reference level as necessary so that the crest of the channel touches the top of the emission mask.

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE		Approved by: Technical Manager
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Test Setup

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



Figure 7-4. Test Instrument & Measurement Setup

Test Notes

None.

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	Frequency [MHz]	Channel	802.11 MODE	Antenna-1 In-Band Emission	Antenna-2 In-Band Emission
Band 5	5935	2	a	PASS	PASS
	6175	45	a	PASS	PASS
	6415	93	a	PASS	PASS
	5935	2	be (20MHz)	PASS	PASS
	6175	45	be (20MHz)	PASS	PASS
	6415	93	be (20MHz)	PASS	PASS
	5965	3	be (40MHz)	PASS	PASS
	6165	43	be (40MHz)	PASS	PASS
	6405	91	be (40MHz)	PASS	PASS
	5985	7	be (80MHz)	PASS	PASS
	6145	39	be (80MHz)	PASS	PASS
	6385	87	be (80MHz)	PASS	PASS
	6025	15	be (160MHz)	PASS	PASS
	6185	47	be (160MHz)	PASS	PASS
	6345	79	be (160MHz)	PASS	PASS
	6105	31	be (320MHz)	PASS	PASS
Band 6	6265	63	be (320MHz)	PASS	PASS
	6435	97	a	PASS	PASS
	6475	105	a	PASS	PASS
	6515	113	a	PASS	PASS
	6435	97	be (20MHz)	PASS	PASS
	6475	105	be (20MHz)	PASS	PASS
	6515	113	be (20MHz)	PASS	PASS
	6445	99	be (40MHz)	PASS	PASS
	6485	107	be (40MHz)	PASS	PASS
	6525	115	be (40MHz)	PASS	PASS
Band 5/6/7	6465	103	be (80MHz)	PASS	PASS
	6505	111	be (160MHz)	PASS	PASS
Band 7	6425	95	be (320MHz)	PASS	PASS
	6535	117	a	PASS	PASS
	6695	149	a	PASS	PASS
	6875	185	a	PASS	PASS
	6535	117	be (20MHz)	PASS	PASS
	6695	149	be (20MHz)	PASS	PASS
	6875	185	be (20MHz)	PASS	PASS
	6565	123	be (40MHz)	PASS	PASS
	6725	155	be (40MHz)	PASS	PASS
	6885	179	be (40MHz)	PASS	PASS
	6545	119	be (80MHz)	PASS	PASS
	6705	151	be (80MHz)	PASS	PASS
	6865	183	be (80MHz)	PASS	PASS
	6665	143	be (160MHz)	PASS	PASS
	6825	175	be (160MHz)	PASS	PASS
Band 6/7	6665	127	be (320MHz)	PASS	PASS
Band 7/8	6745	159	be (320MHz)	PASS	PASS
Band 8	6895	189	a	PASS	PASS
	6995	209	a	PASS	PASS
	7115	233	a	PASS	PASS
	6895	189	be (20MHz)	PASS	PASS
	6995	209	be (20MHz)	PASS	PASS
	7115	233	be (20MHz)	PASS	PASS
	6925	187	be (40MHz)	PASS	PASS
	7005	211	be (40MHz)	PASS	PASS
	7085	227	be (40MHz)	PASS	PASS
	6945	199	be (80MHz)	PASS	PASS
	7025	215	be (80MHz)	PASS	PASS
Band 7/8	6985	207	be (160MHz)	PASS	PASS
	6905	191	be (320MHz)	PASS	PASS

Table 7-42. In- Band Emissions Test Result – LPI

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE		Approved by: Technical Manager
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	Frequency [MHz]	Channel	802.11 MODE	Puncture Size	Antenna-1 In-Band Emission	Antenna-2 In-Band Emission
Band 5	6145	39	be (80MHz)	20MHz	PASS	PASS
	6185	47	be (160MHz)	20MHz	PASS	PASS
	6185	47	be (160MHz)	40MHz	PASS	PASS
	6105	31	be (320MHz)	40MHz	PASS	PASS
	6105	31	be (320MHz)	80MHz	PASS	PASS
	6105	31	be (320MHz)	120MHz	PASS	PASS
Band 6	6465	103	be (80MHz)	20MHz	PASS	PASS
	6505	111	be (160MHz)	20MHz	PASS	PASS
	6505	111	be (160MHz)	40MHz	PASS	PASS
Band 5/6/7	6425	95	be (320MHz)	40MHz	PASS	PASS
	6425	95	be (320MHz)	80MHz	PASS	PASS
	6425	95	be (320MHz)	120MHz	PASS	PASS
Band 7	6705	151	be (80MHz)	20MHz	PASS	PASS
	6665	143	be (160MHz)	20MHz	PASS	PASS
	6665	143	be (160MHz)	40MHz	PASS	PASS
Band 7/8	6745	159	be (320MHz)	40MHz	PASS	PASS
	6745	159	be (320MHz)	80MHz	PASS	PASS
	6745	159	be (320MHz)	120MHz	PASS	PASS
Band 8	7025	215	be (80MHz)	20MHz	PASS	PASS
	6985	207	be (160MHz)	20MHz	PASS	PASS
	6985	207	be (160MHz)	40MHz	PASS	PASS
Band 7/8	6905	191	be (320MHz)	40MHz	PASS	PASS
	6905	191	be (320MHz)	80MHz	PASS	PASS
	6905	191	be (320MHz)	120MHz	PASS	PASS

Table 7-43. In- Band Emissions Test Result – LPI - Punctured

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE		Approved by: Technical Manager
Test Report S/N: 1M2511200095-08-R2.C3K	Test Dates: 12/16/2025 - 02/17/2026	EUT Type: Portable Computing Device	Page 73 of 140

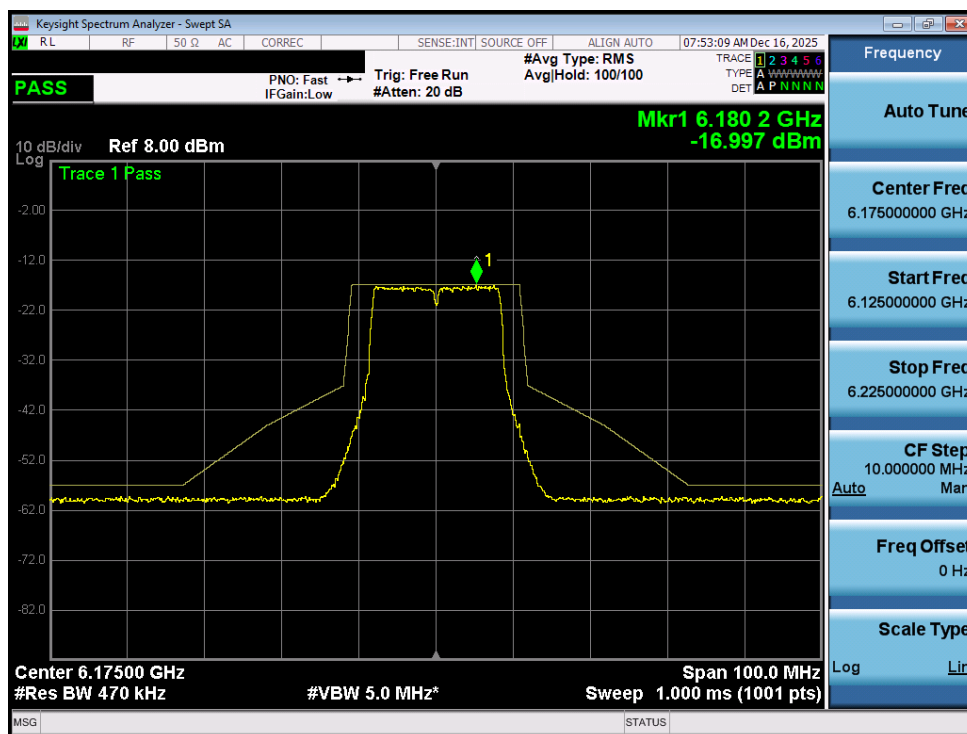
	Frequency [MHz]	Channel	802.11 MODE	Antenna-1 Power Density [dBm]	Antenna-2 Power Density [dBm]
Band 5	5935	2	a	PASS	PASS
	6175	45	a	PASS	PASS
	6415	93	a	PASS	PASS
	5935	2	be (20MHz)	PASS	PASS
	6175	45	be (20MHz)	PASS	PASS
	6415	93	be (20MHz)	PASS	PASS
	5965	3	be (40MHz)	PASS	PASS
	6165	43	be (40MHz)	PASS	PASS
	6405	91	be (40MHz)	PASS	PASS
	5985	7	be (80MHz)	PASS	PASS
	6145	39	be (80MHz)	PASS	PASS
	6385	87	be (80MHz)	PASS	PASS
	6025	15	be (160MHz)	PASS	PASS
	6185	47	be (160MHz)	PASS	PASS
	6345	79	be (160MHz)	PASS	PASS
Band 7	6105	31	be (320MHz)	PASS	PASS
	6535	117	a	PASS	PASS
	6695	149	a	PASS	PASS
	6855	181	a	PASS	PASS
	6535	117	be (20MHz)	PASS	PASS
	6695	149	be (20MHz)	PASS	PASS
	6855	181	be (20MHz)	PASS	PASS
	6565	123	be (40MHz)	PASS	PASS
	6725	155	be (40MHz)	PASS	PASS
	6885	179	be (40MHz)	PASS	PASS
	6625	135	be (80MHz)	PASS	PASS
	6705	151	be (80MHz)	PASS	PASS
	6785	167	be (80MHz)	PASS	PASS
	6665	143	be (160MHz)	PASS	PASS

Table 7-44. In- Band Emissions Test Result – SP

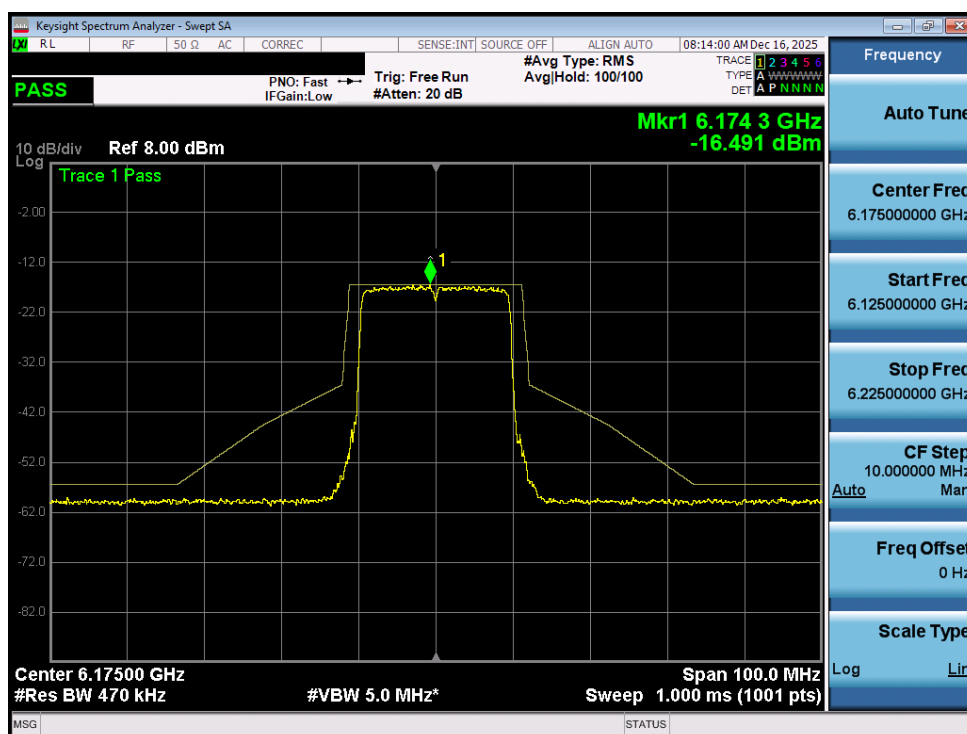
	Frequency [MHz]	Channel	802.11 MODE	Puncture Size	Antenna-1 In-Band Emission	Antenna-2 In-Band Emission
Band 5	6145	39	be (80MHz)	20MHz	PASS	PASS
	6185	47	be (160MHz)	20MHz	PASS	PASS
	6185	47	be (160MHz)	40MHz	PASS	PASS
	6105	31	be (320MHz)	40MHz	PASS	PASS
	6105	31	be (320MHz)	80MHz	PASS	PASS
	6105	31	be (320MHz)	120MHz	PASS	PASS
Band 7	6705	151	be (80MHz)	20MHz	PASS	PASS
	6665	143	be (160MHz)	20MHz	PASS	PASS
	6665	143	be (160MHz)	40MHz	PASS	PASS
Band 7/8	6745	159	be (320MHz)	40MHz	PASS	PASS
	6745	159	be (320MHz)	80MHz	PASS	PASS
	6745	159	be (320MHz)	120MHz	PASS	PASS

Table 7-45. In- Band Emissions Test Result – SP – Punctured

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE		Approved by: Technical Manager
Test Report S/N: 1M2511200095-08-R2.C3K	Test Dates: 12/16/2025 - 02/17/2026	EUT Type: Portable Computing Device	Page 74 of 140

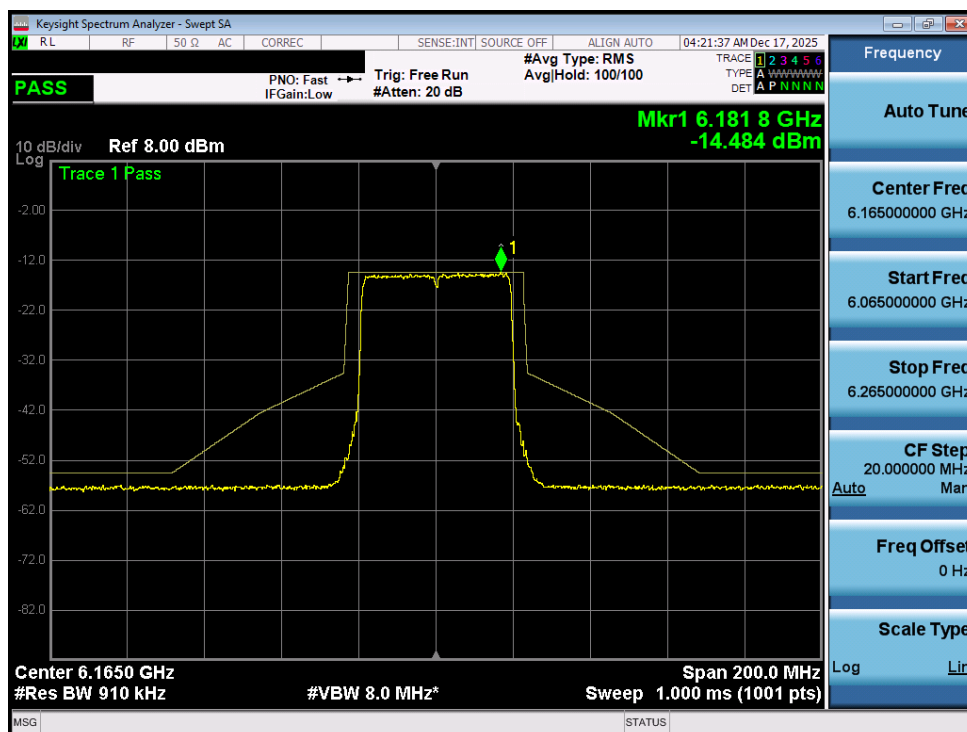


Plot 7-61. In-Band Emission MIMO ANT1 (20MHz 802.11a (UNII Band 5) – Ch. 45) - LPI

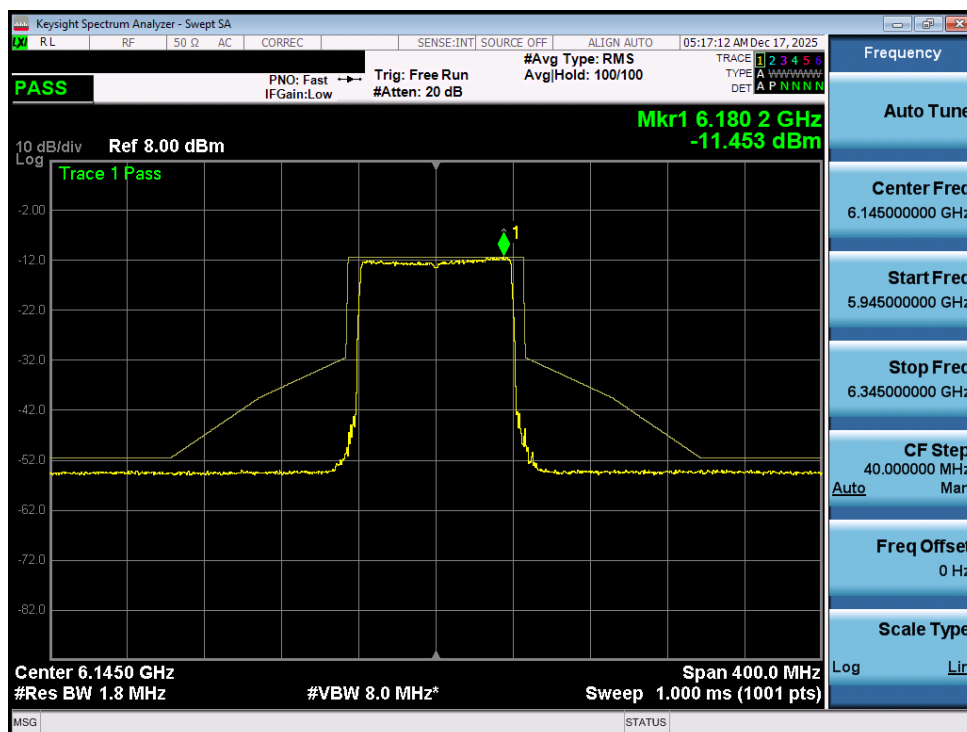


Plot 7-62. In-Band Emission MIMO ANT1 (20MHz 802.11ax/be (UNII Band 5) – Ch. 45) - LPI

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE		Approved by: Technical Manager
Test Report S/N: 1M2511200095-08-R2.C3K	Test Dates: 12/16/2025 - 02/17/2026	EUT Type: Portable Computing Device	Page 75 of 140

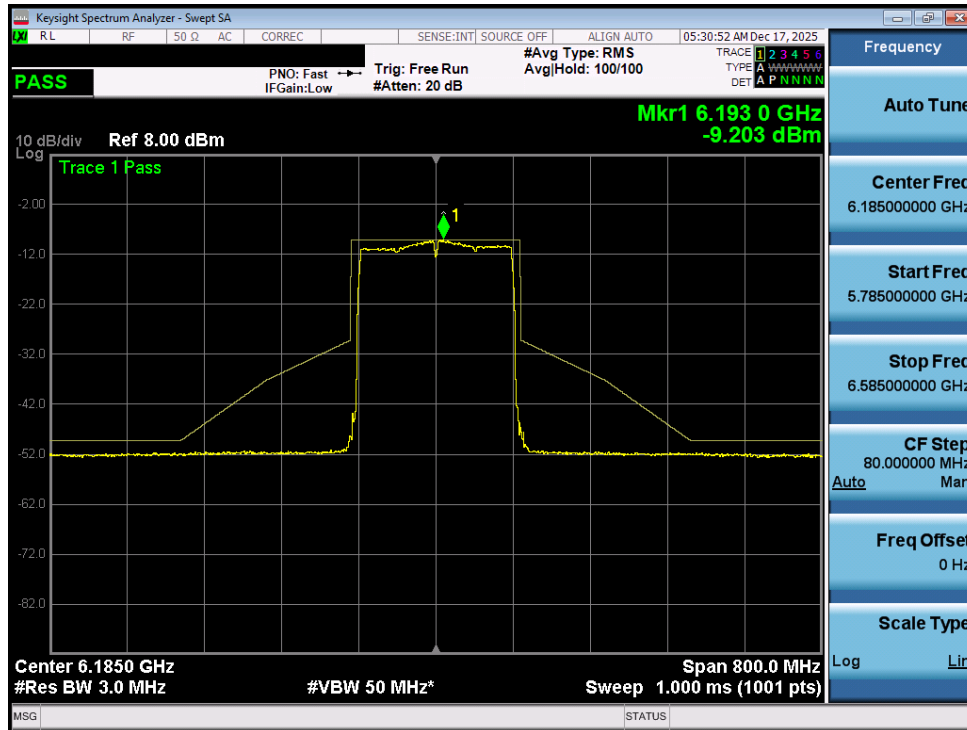


Plot 7-63. In-Band Emission MIMO ANT1 (40MHz 802.11ax/be (UNII Band 5) – Ch. 43) - LPI

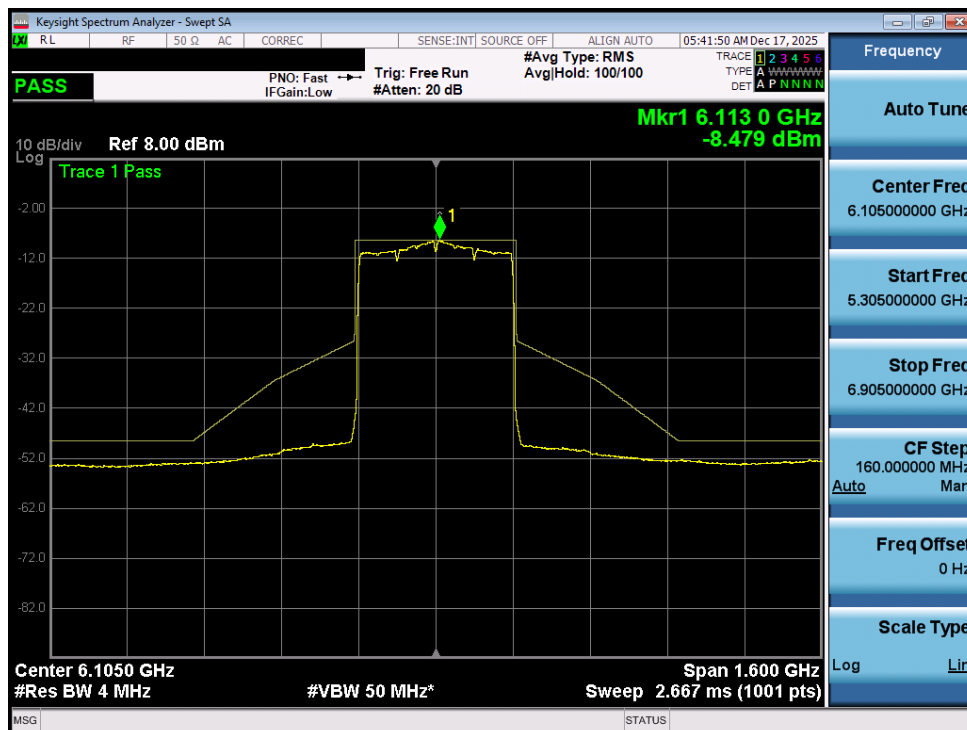


Plot 7-64. In-Band Emission MIMO ANT1 (80MHz 802.11ax/be (UNII Band 5) – Ch. 39) - LPI

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE		Approved by: Technical Manager
Test Report S/N: 1M2511200095-08-R2.C3K	Test Dates: 12/16/2025 - 02/17/2026	EUT Type: Portable Computing Device	Page 76 of 140

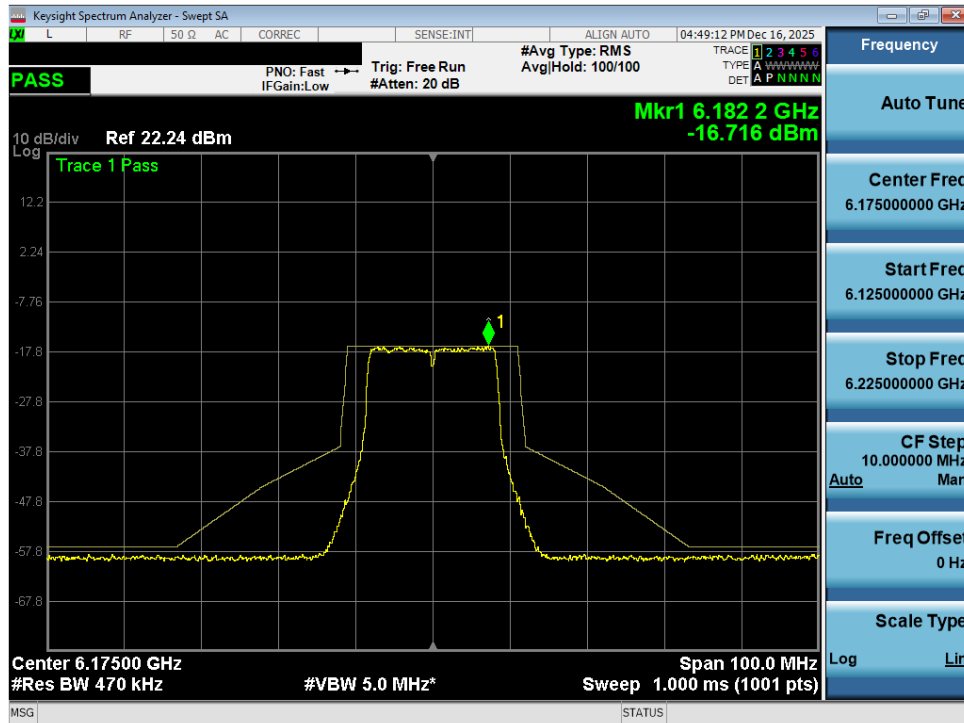


Plot 7-65. In-Band Emission MIMO ANT1 (160MHz 802.11ax/be (UNII Band 5) – Ch. 47) - LPI

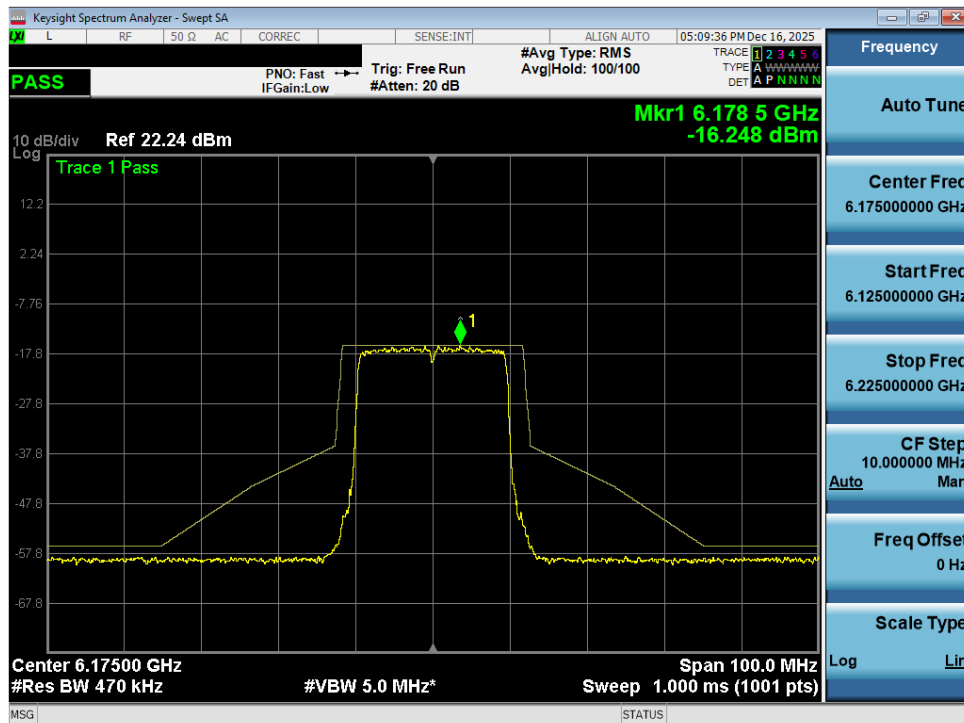


Plot 7-66. In-Band Emission MIMO ANT1 (320MHz 802.11ax/be (UNII Band 5) – Ch.31) - LPI

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE		Approved by: Technical Manager
Test Report S/N: 1M2511200095-08-R2.C3K	Test Dates: 12/16/2025 - 02/17/2026	EUT Type: Portable Computing Device	Page 77 of 140

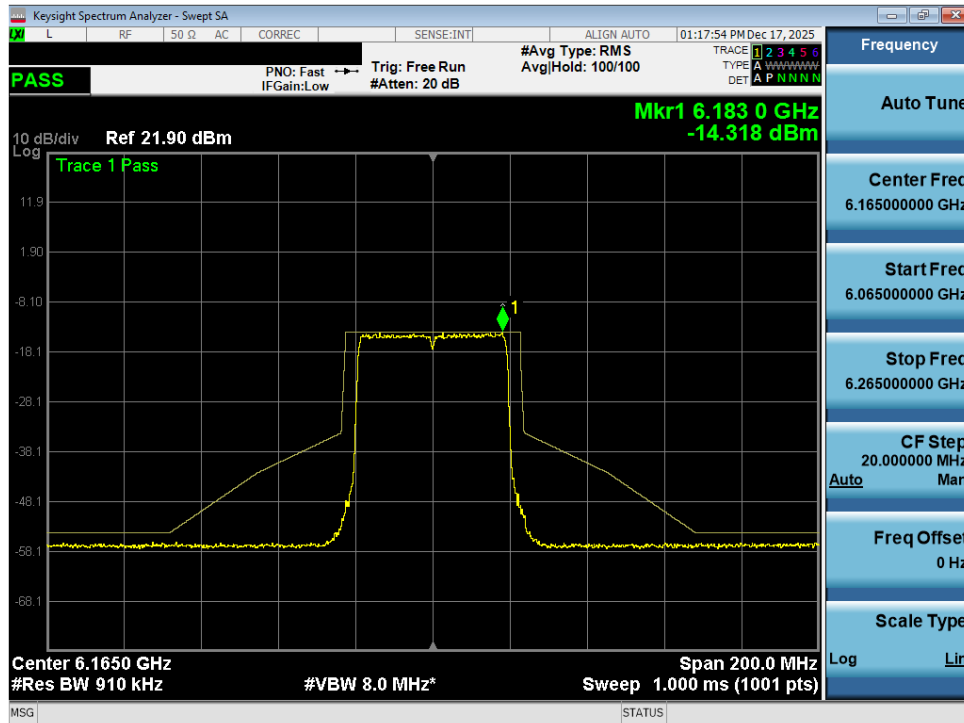


Plot 7-67. In-Band Emission MIMO ANT2 (20MHz 802.11a (UNII Band 5) – Ch. 45) - LPI

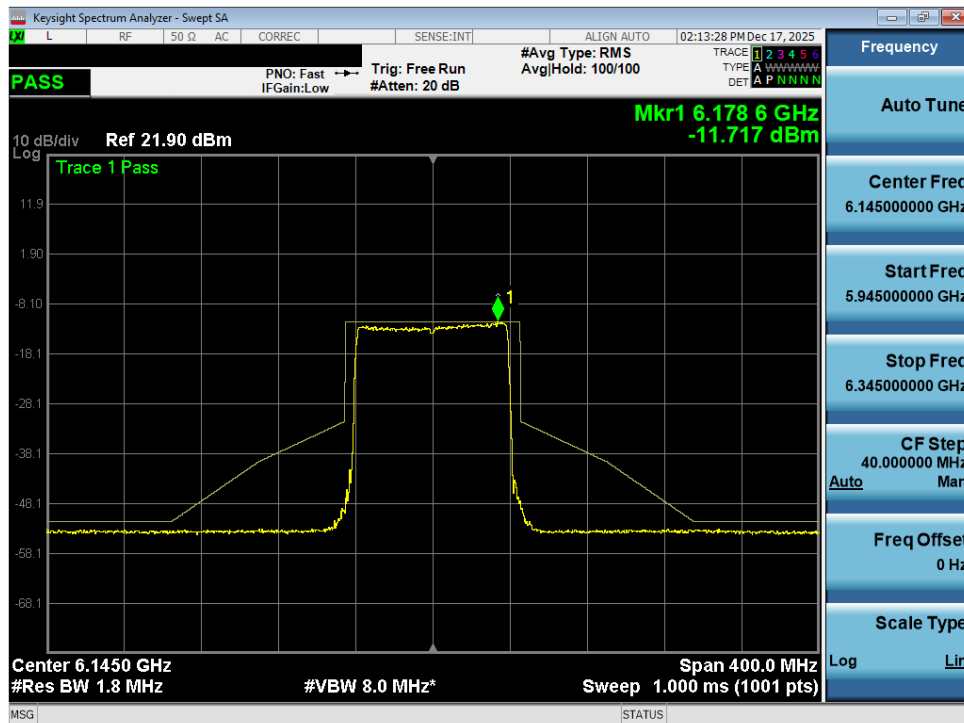


Plot 7-68. In-Band Emission MIMO ANT2 (20MHz 802.11ax/be (UNII Band 5) – Ch. 45) - LPI

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE		Approved by: Technical Manager
Test Report S/N: 1M2511200095-08-R2.C3K	Test Dates: 12/16/2025 - 02/17/2026	EUT Type: Portable Computing Device	Page 78 of 140

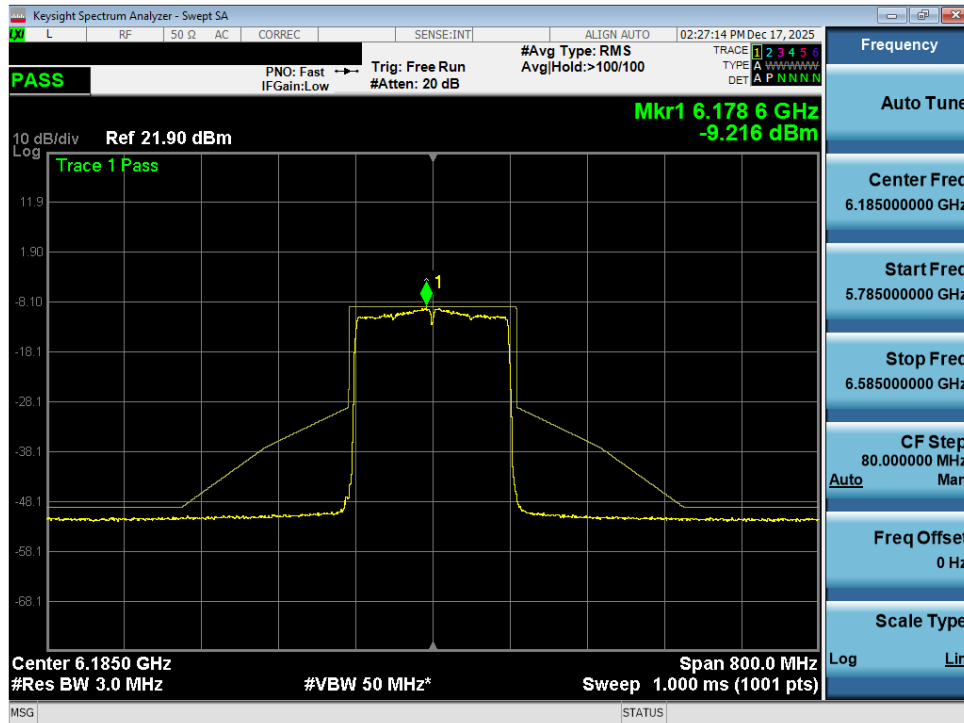


Plot 7-69. In-Band Emission MIMO ANT2 (40MHz 802.11ax/be (UNII Band 5) – Ch. 43) - LPI

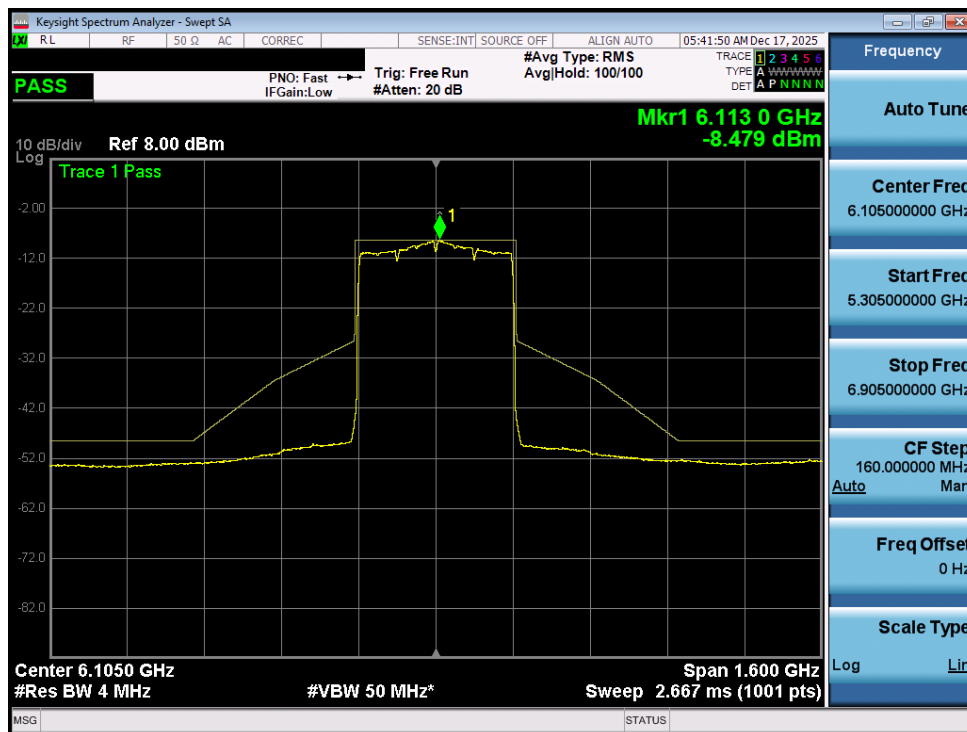


Plot 7-70. In-Band Emission MIMO ANT2 (80MHz 802.11ax/be (UNII Band 5) – Ch. 39) - LPI

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE		Approved by: Technical Manager
Test Report S/N: 1M2511200095-08-R2.C3K	Test Dates: 12/16/2025 - 02/17/2026	EUT Type: Portable Computing Device	Page 79 of 140

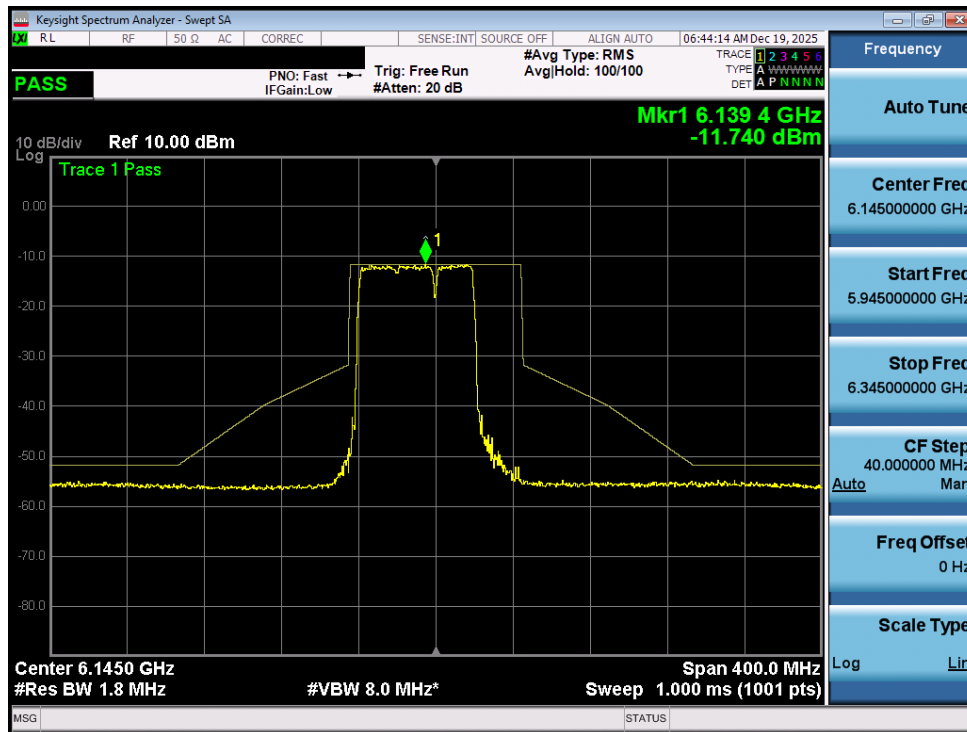


Plot 7-71. In-Band Emission MIMO ANT2 (160MHz 802.11ax/be (UNII Band 5) – Ch. 47) - LPI

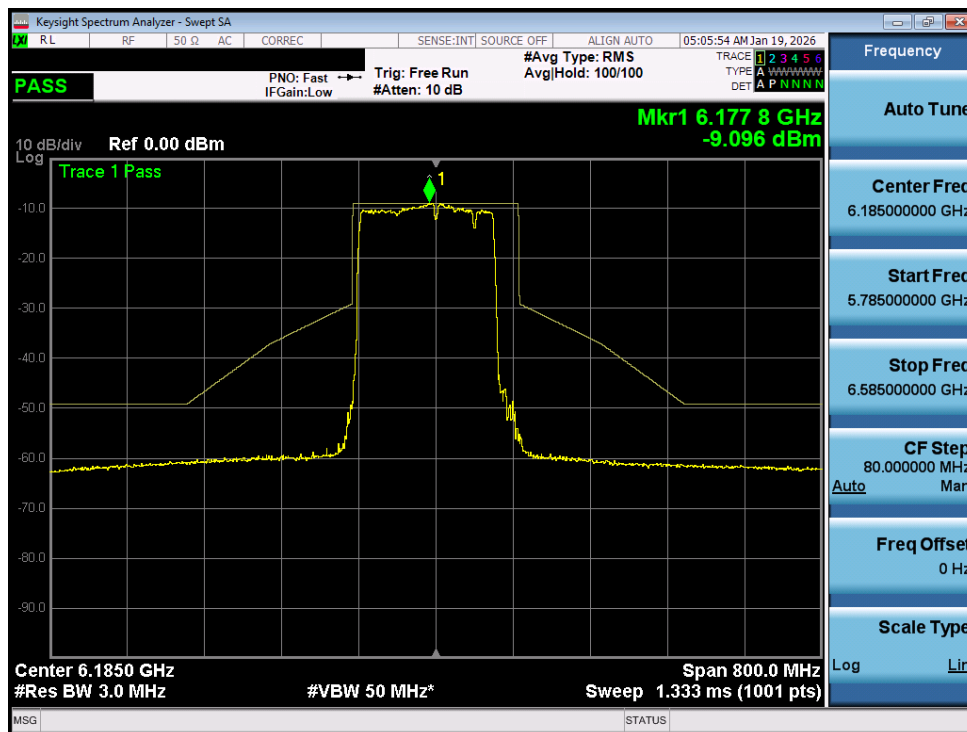


Plot 7-72. In-Band Emission MIMO ANT2 (320MHz 802.11ax/be (UNII Band 5) – Ch.31) - LPI

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE		Approved by: Technical Manager
Test Report S/N: 1M2511200095-08-R2.C3K	Test Dates: 12/16/2025 - 02/17/2026	EUT Type: Portable Computing Device	Page 80 of 140

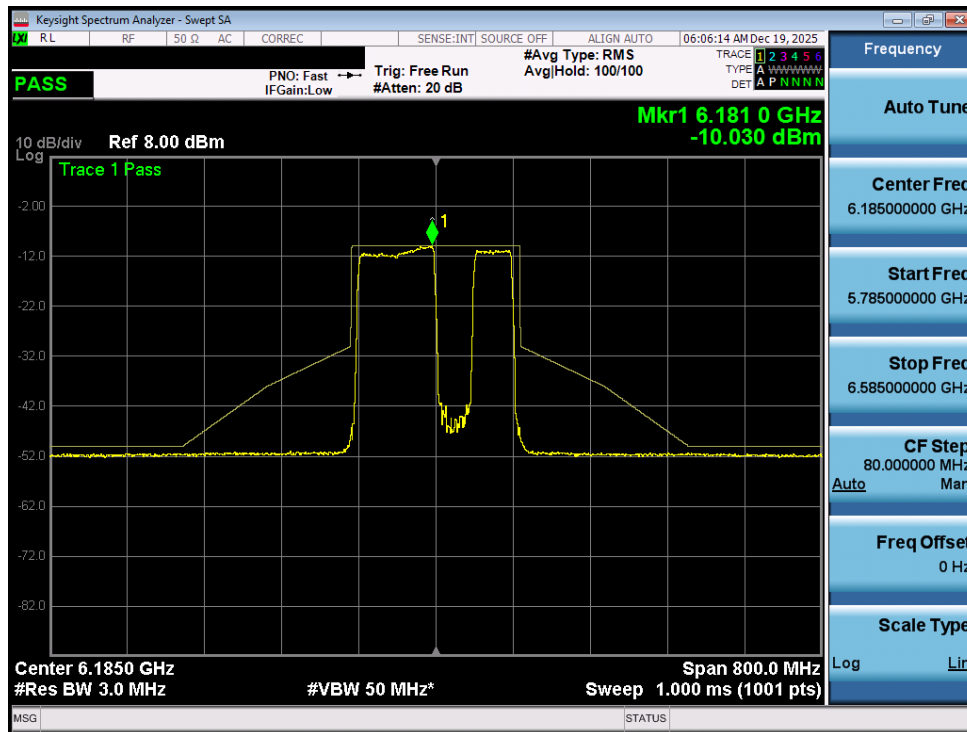


Plot 7-73. In-Band Emission MIMO ANT1 (80MHz 802.11be (UNII Band 5) – Ch. 39) – LPI Punctured

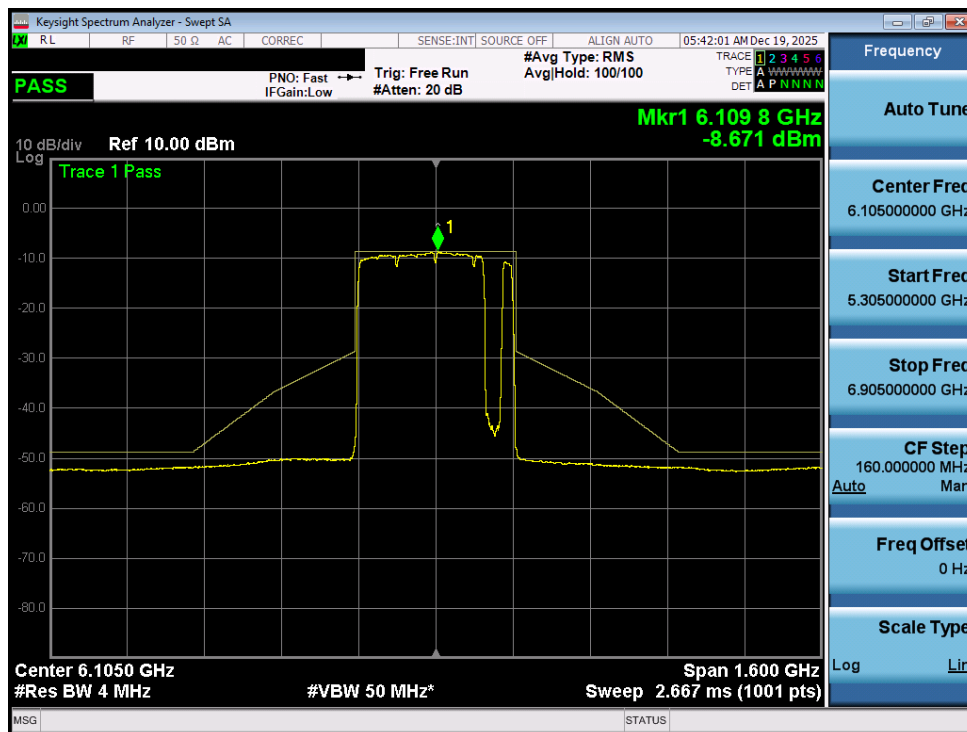


Plot 7-74. In-Band Emission MIMO ANT1 (160MHz 802.11ax/be (UNII Band 5) – Ch. 47) - LPI Punctured

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE		Approved by: Technical Manager
Test Report S/N: 1M2511200095-08-R2.C3K	Test Dates: 12/16/2025 - 02/17/2026	EUT Type: Portable Computing Device	Page 81 of 140

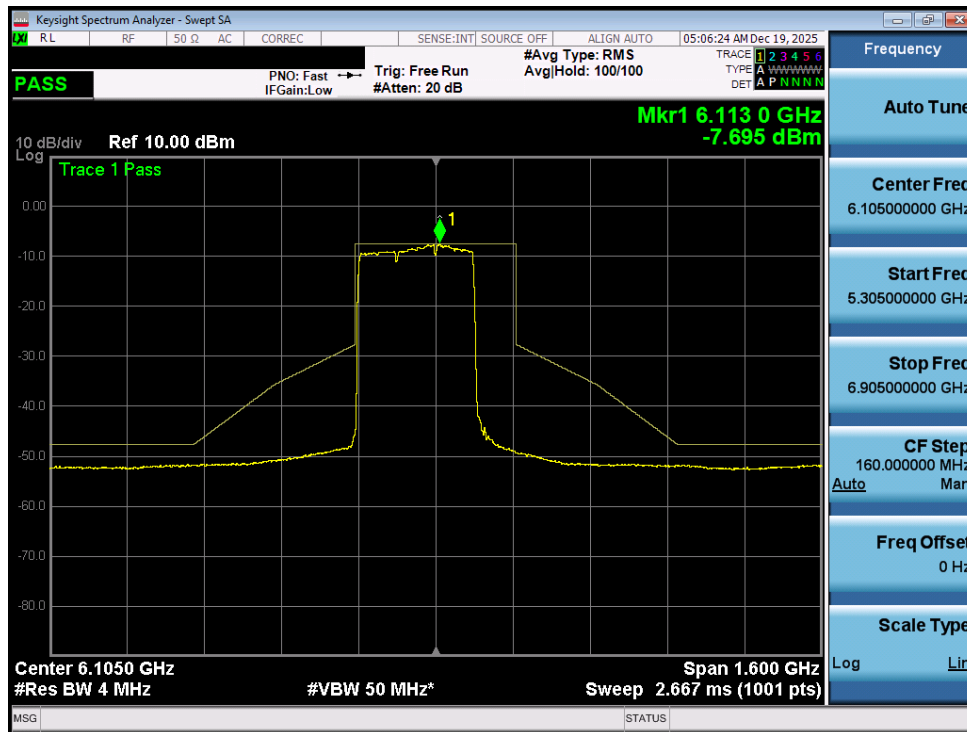


Plot 7-75. In-Band Emission MIMO ANT1 (160MHz 802.11ax/be (UNII Band 5) – Ch. 47) - LPI Punctured

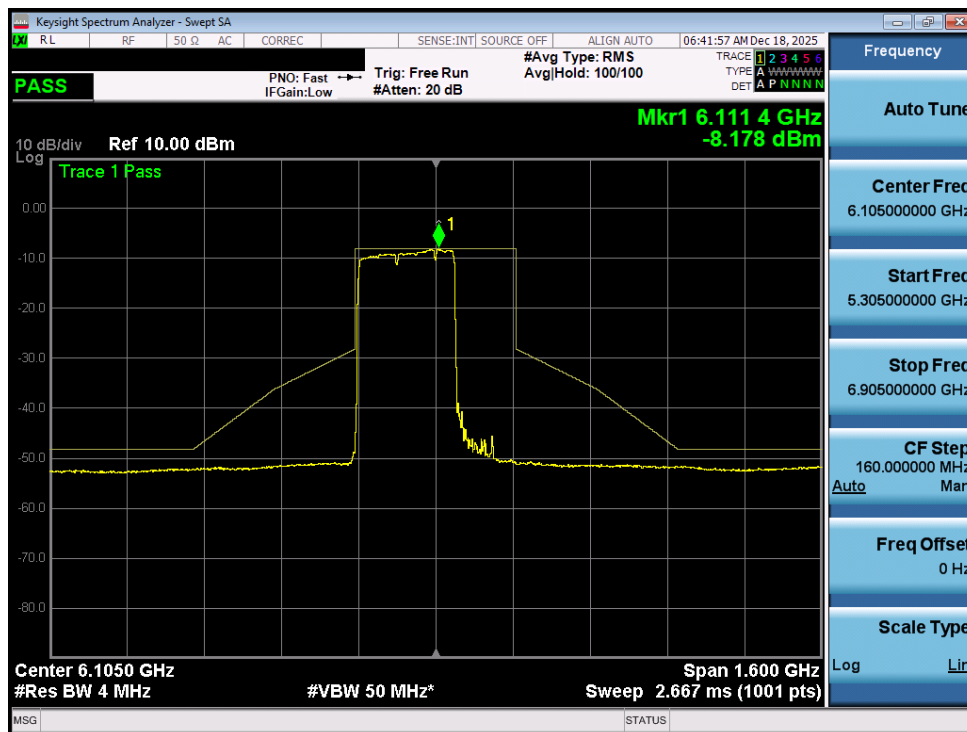


Plot 7-76. In-Band Emission MIMO ANT1 (320MHz 802.11ax/be (UNII Band 5) – Ch. 31) - LPI Punctured

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE		Approved by: Technical Manager
Test Report S/N: 1M2511200095-08-R2.C3K	Test Dates: 12/16/2025 - 02/17/2026	EUT Type: Portable Computing Device	Page 82 of 140

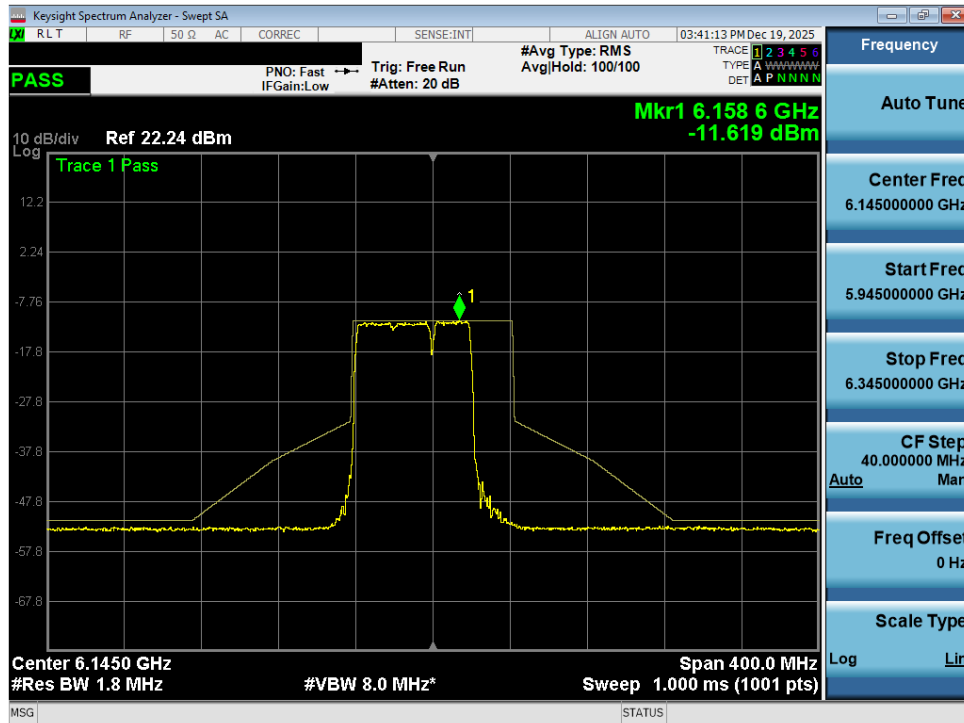


Plot 7-77. In-Band Emission MIMO ANT1 (320MHz 802.11ax/be (UNII Band 5) – Ch. 31) - LPI Punctured

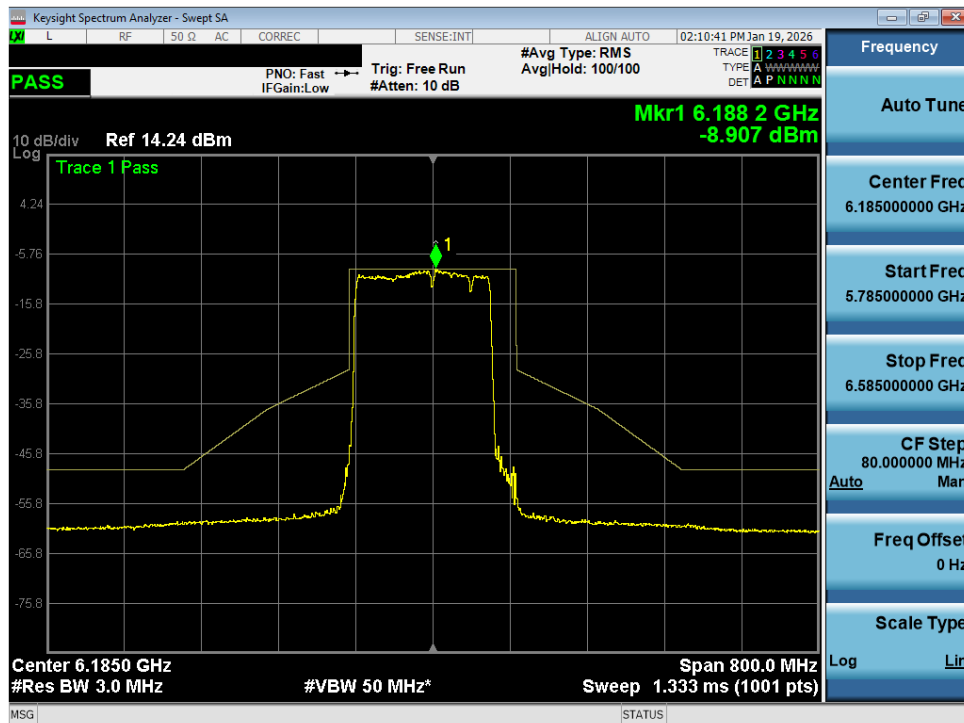


Plot 7-78. In-Band Emission MIMO ANT1 (320MHz 802.11ax/be (UNII Band 5) – Ch. 31) - LPI Punctured

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE		Approved by: Technical Manager
Test Report S/N: 1M2511200095-08-R2.C3K	Test Dates: 12/16/2025 - 02/17/2026	EUT Type: Portable Computing Device	Page 83 of 140

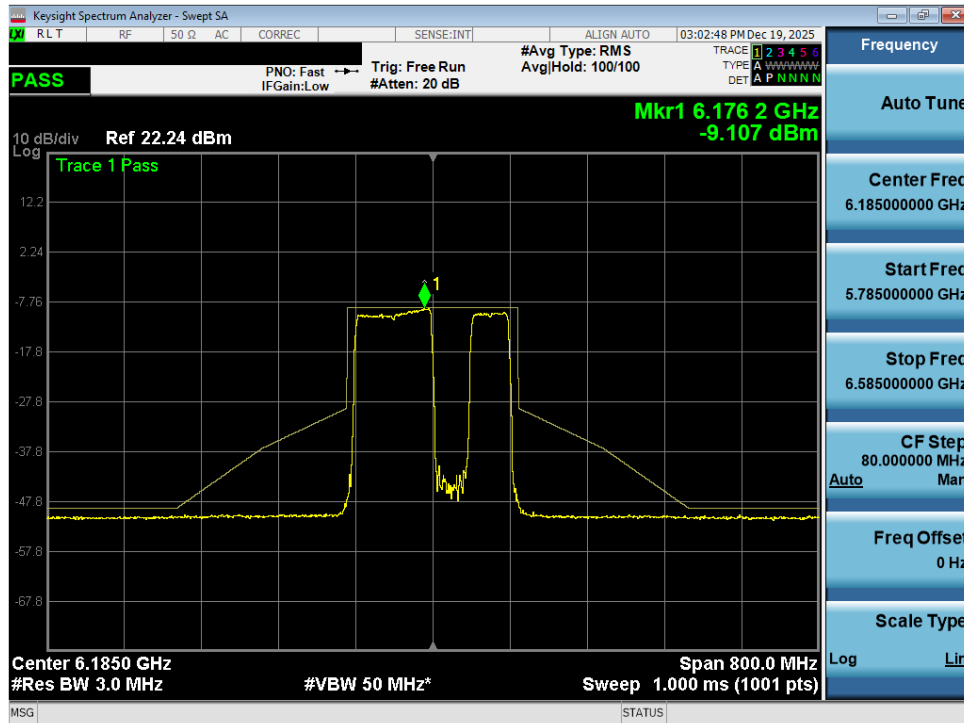


Plot 7-79. In-Band Emission MIMO ANT2 (80MHz 802.11be (UNII Band 5) – Ch. 39) – LPI Punctured

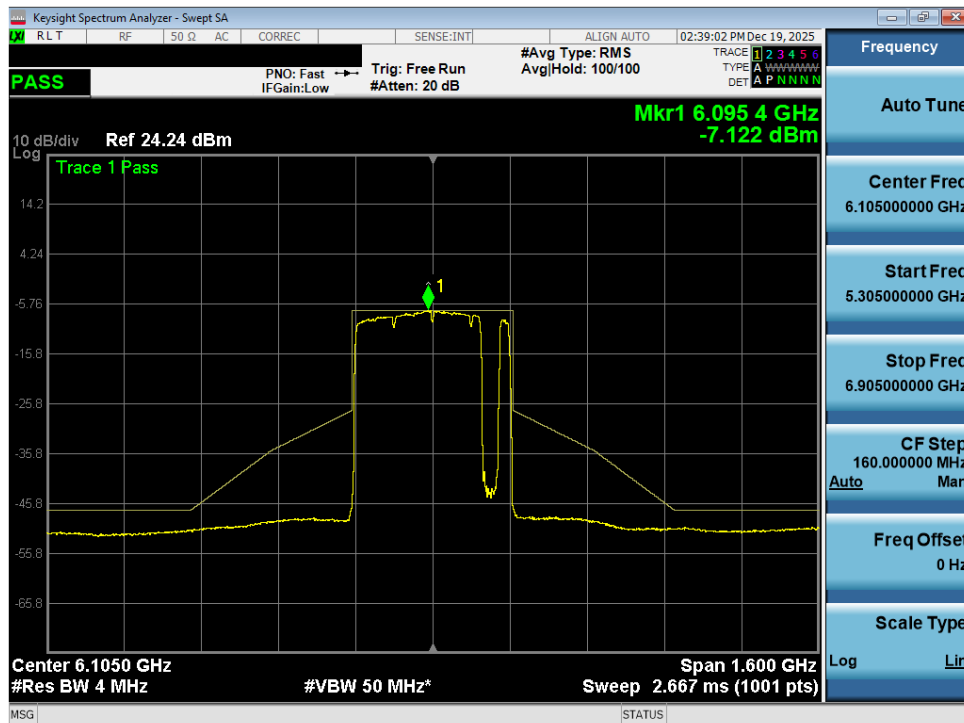


Plot 7-80. In-Band Emission MIMO ANT2 (160MHz 802.11ax/be (UNII Band 5) – Ch. 47) - LPI Punctured

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE		Approved by: Technical Manager
Test Report S/N: 1M2511200095-08-R2.C3K	Test Dates: 12/16/2025 - 02/17/2026	EUT Type: Portable Computing Device	Page 84 of 140

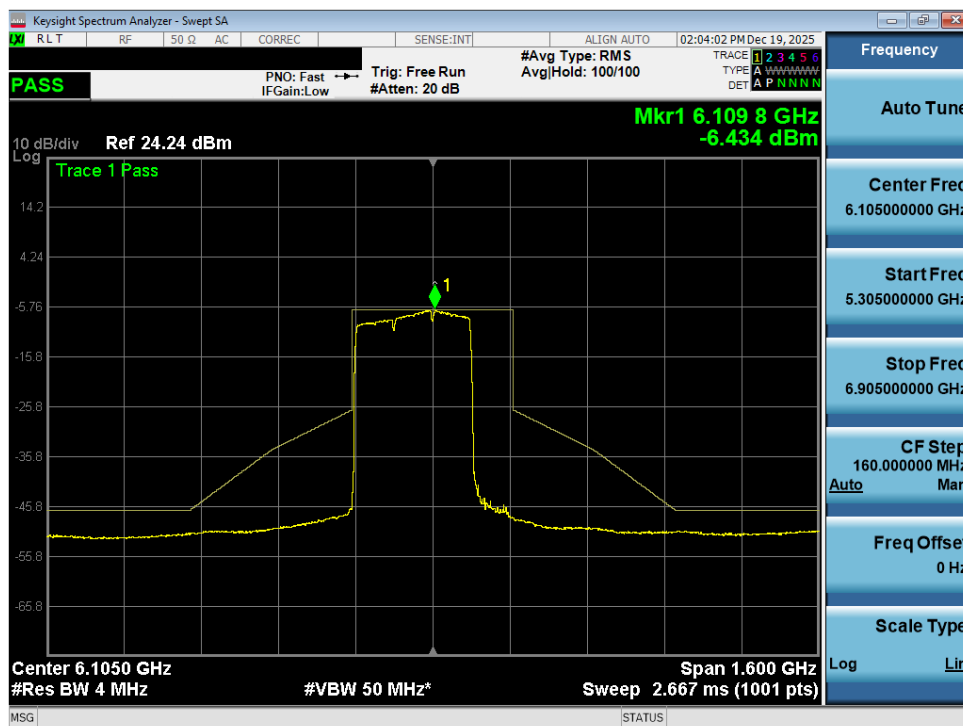


Plot 7-81. In-Band Emission MIMO ANT2 (160MHz 802.11ax/be (UNII Band 5) – Ch. 47) - LPI Punctured

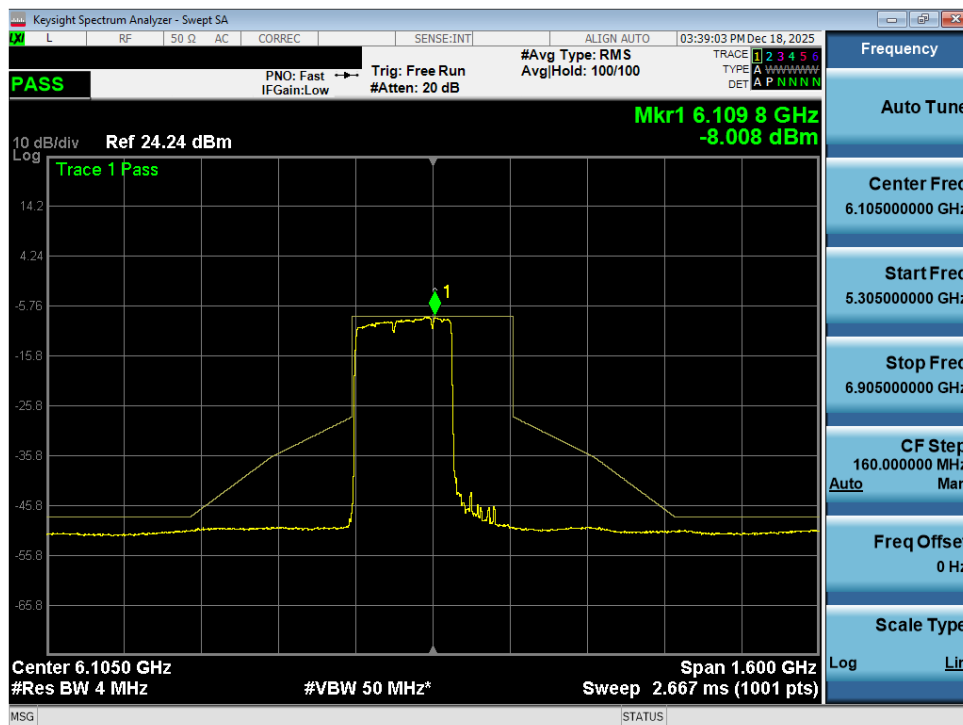


Plot 7-82. In-Band Emission MIMO ANT2 (320MHz 802.11ax/be (UNII Band 5) – Ch. 31) - LPI Punctured

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE		Approved by: Technical Manager
Test Report S/N: 1M2511200095-08-R2.C3K	Test Dates: 12/16/2025 - 02/17/2026	EUT Type: Portable Computing Device	Page 85 of 140

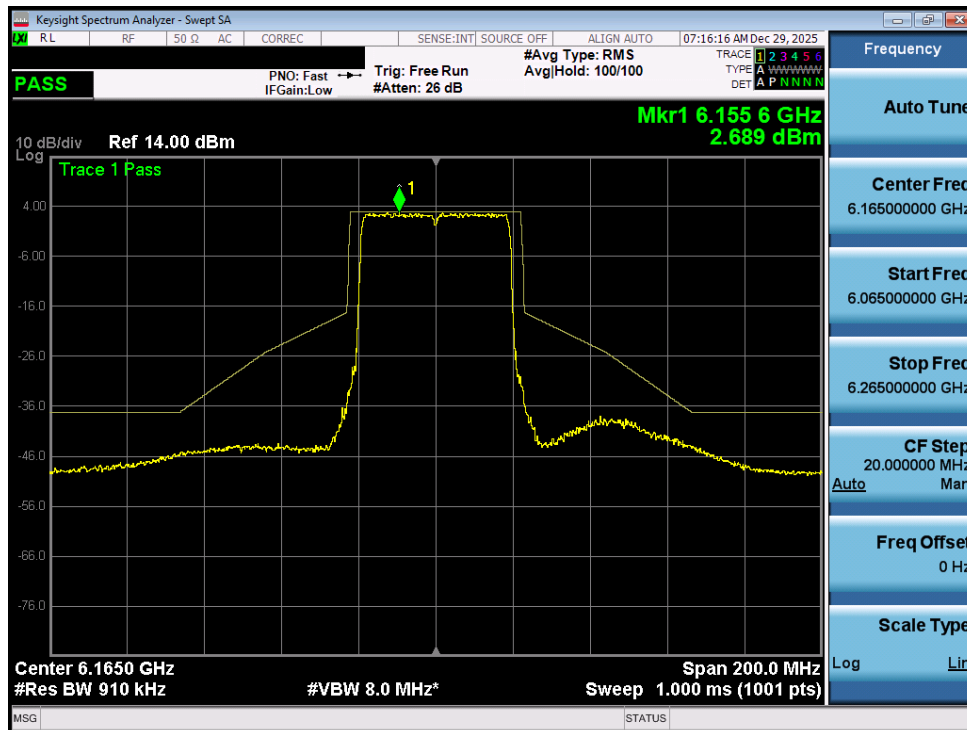


Plot 7-83. In-Band Emission MIMO ANT2 (320MHz 802.11ax/be (UNII Band 5) – Ch. 31) - LPI Punctured

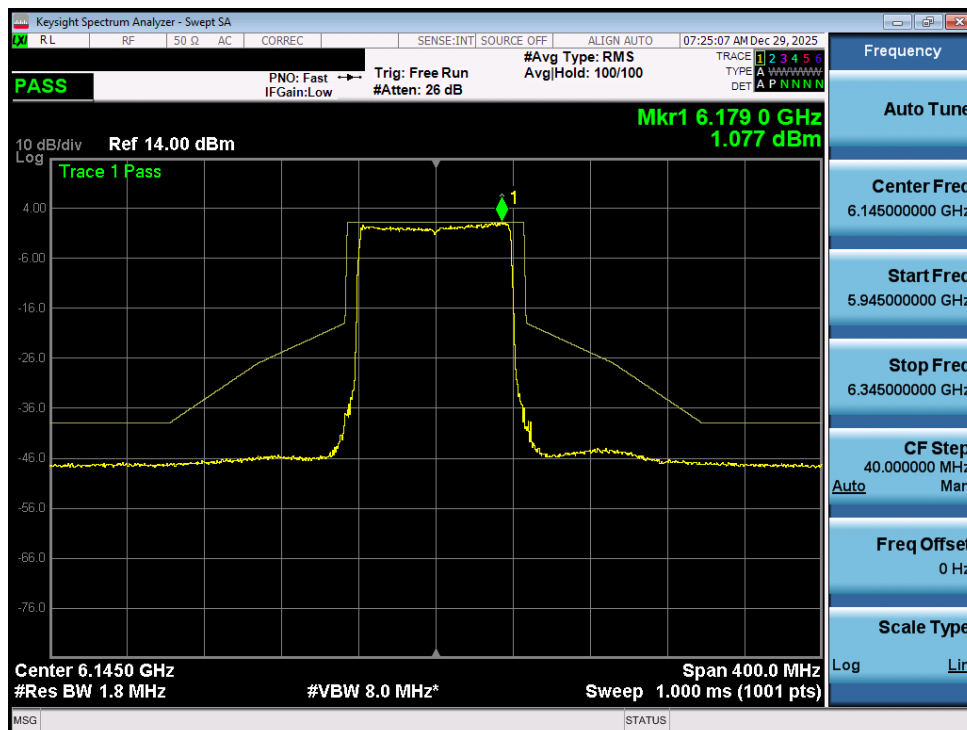


Plot 7-84. In-Band Emission MIMO ANT2 (320MHz 802.11ax/be (UNII Band 5) – Ch. 31) - LPI Punctured

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE		Approved by: Technical Manager
Test Report S/N: 1M2511200095-08-R2.C3K	Test Dates: 12/16/2025 - 02/17/2026	EUT Type: Portable Computing Device	Page 86 of 140

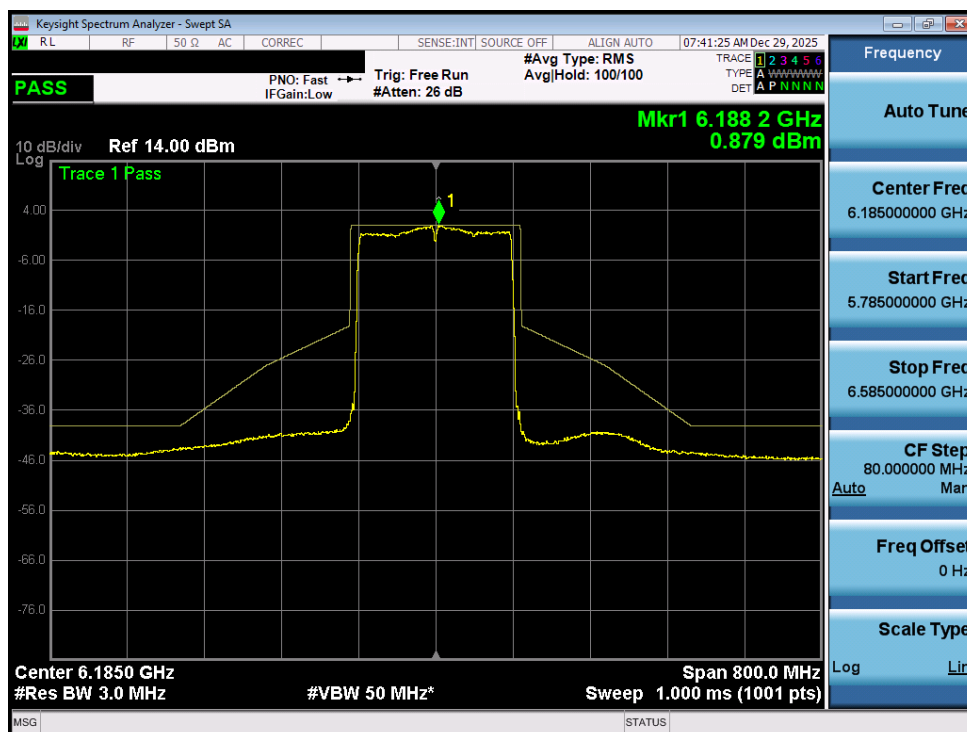


Plot 7-87. In-Band Emission MIMO ANT1 (40MHz 802.11ax/be (UNII Band 5) – Ch. 43) - SP

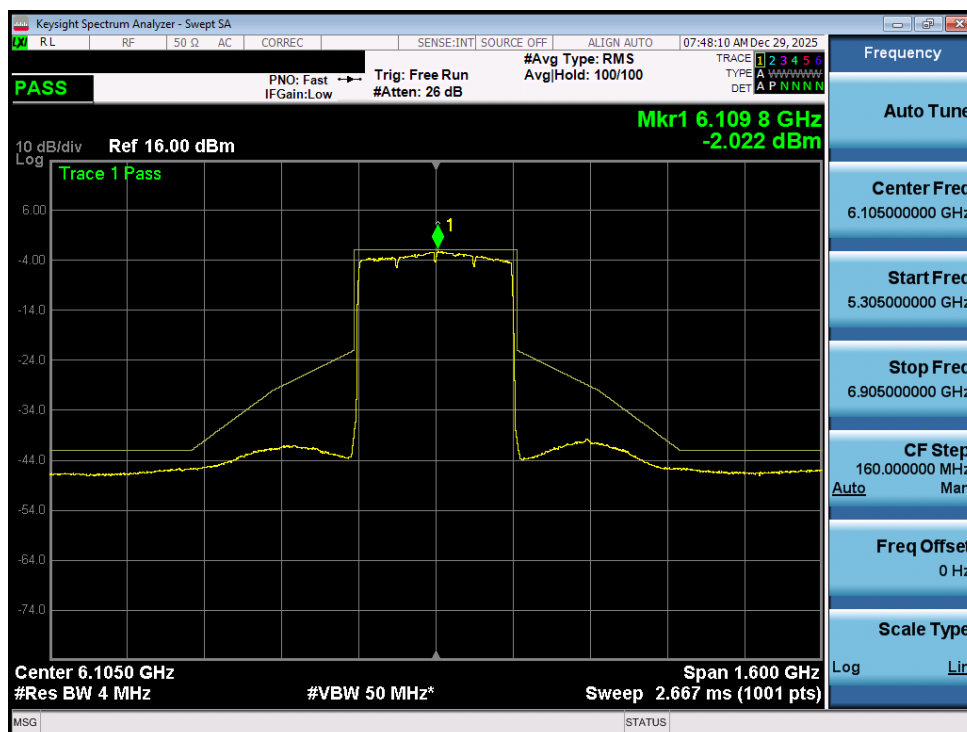


Plot 7-88. In-Band Emission MIMO ANT1 (80MHz 802.11ax/be (UNII Band 5) – Ch. 39) - SP

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE		Approved by: Technical Manager
Test Report S/N: 1M2511200095-08-R2.C3K	Test Dates: 12/16/2025 - 02/17/2026	EUT Type: Portable Computing Device	Page 88 of 140

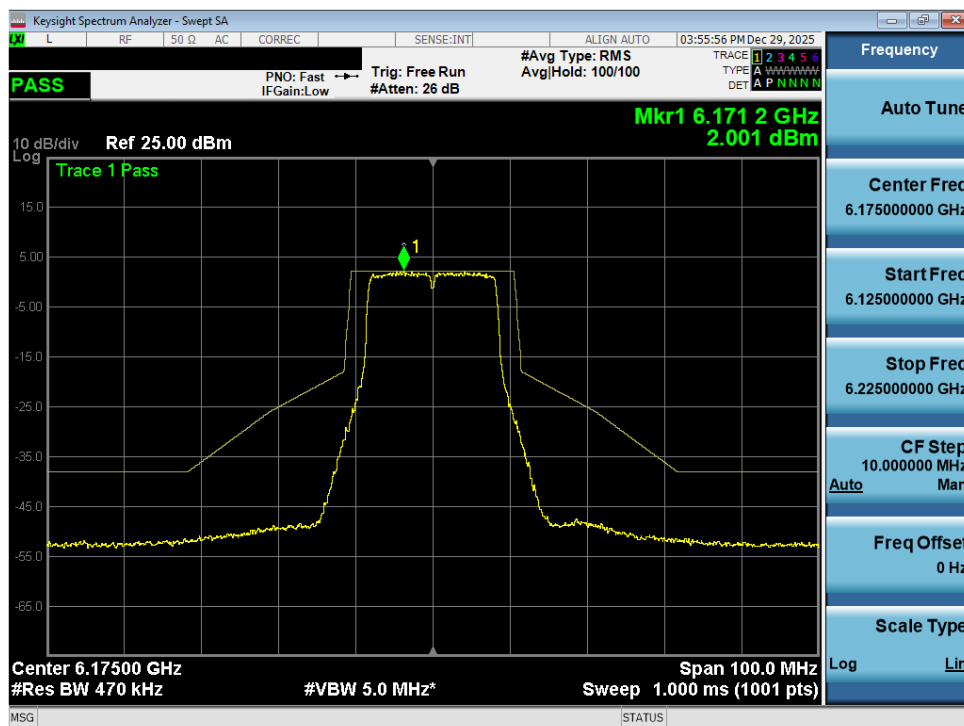


Plot 7-89. In-Band Emission MIMO ANT1 (160MHz 802.11ax/be (UNII Band 5) – Ch. 47) - SP

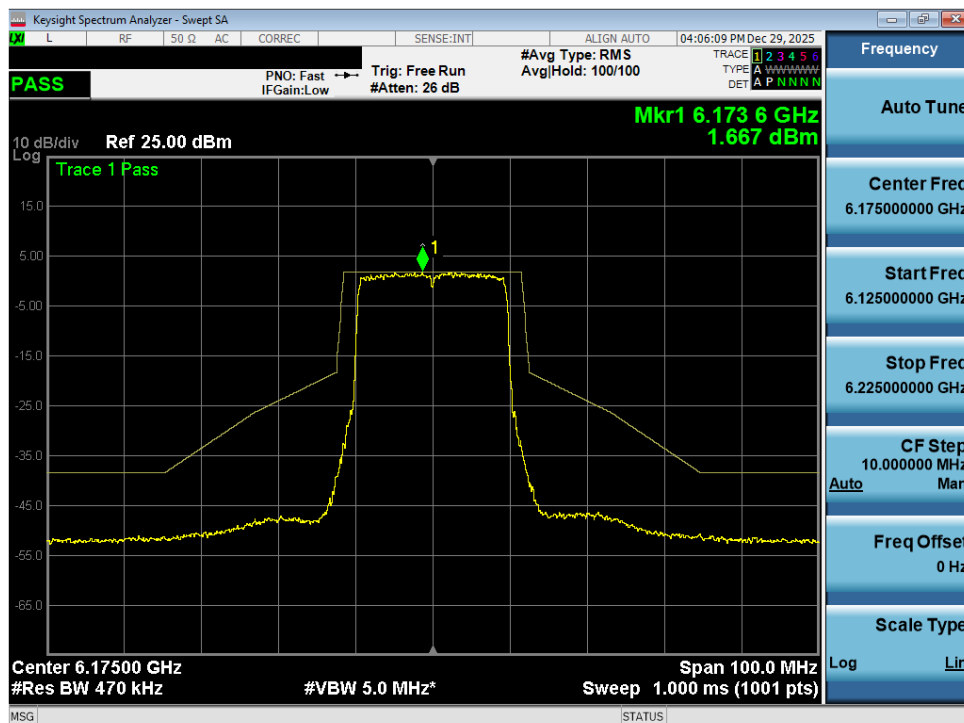


Plot 7-90. In-Band Emission MIMO ANT1 (320MHz 802.11ax/be (UNII Band 5) – Ch.31) - SP

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE		Approved by: Technical Manager
Test Report S/N: 1M2511200095-08-R2.C3K	Test Dates: 12/16/2025 - 02/17/2026	EUT Type: Portable Computing Device	Page 89 of 140

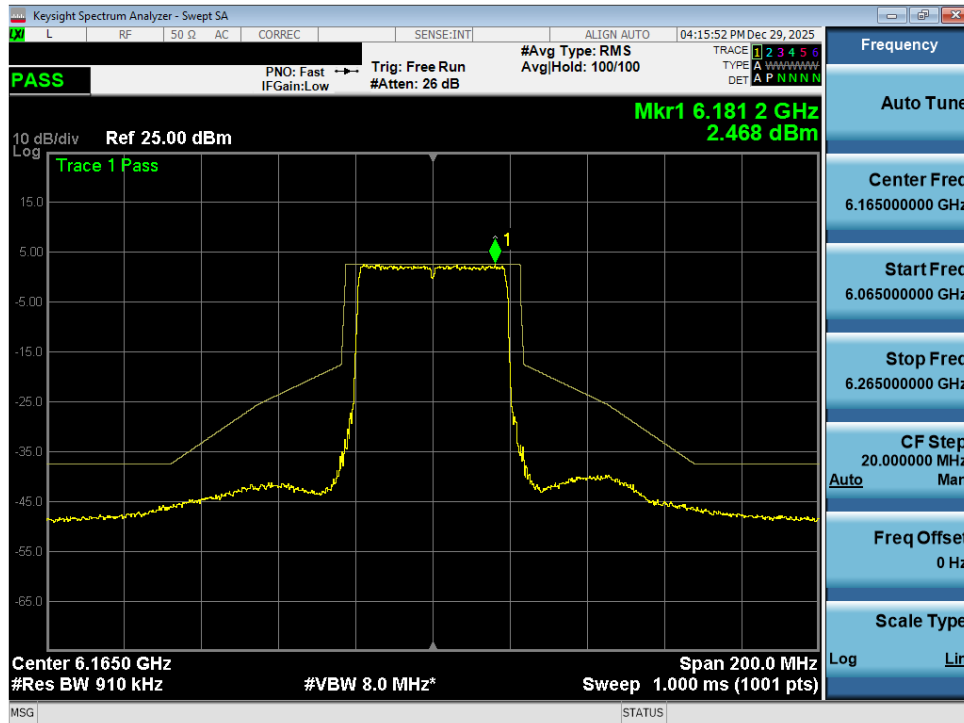


Plot 7-91. In-Band Emission MIMO ANT2 (20MHz 802.11a (UNII Band 5) – Ch. 45) - SP

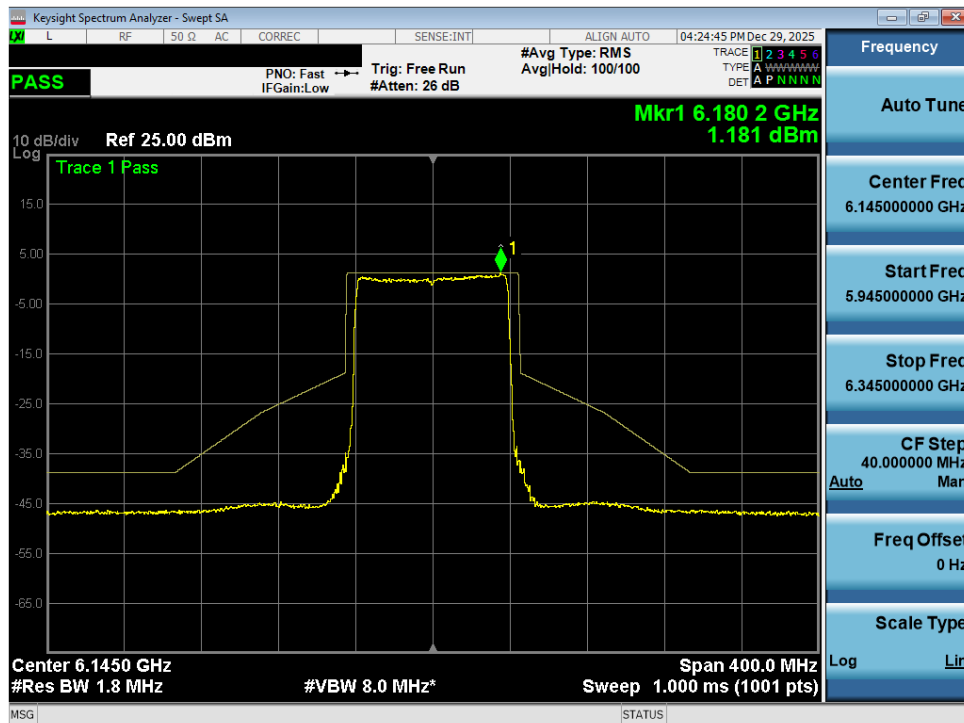


Plot 7-92. In-Band Emission MIMO ANT2 (20MHz 802.11ax/be (UNII Band 5) – Ch. 45) - SP

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE		Approved by: Technical Manager
Test Report S/N: 1M2511200095-08-R2.C3K	Test Dates: 12/16/2025 - 02/17/2026	EUT Type: Portable Computing Device	Page 90 of 140

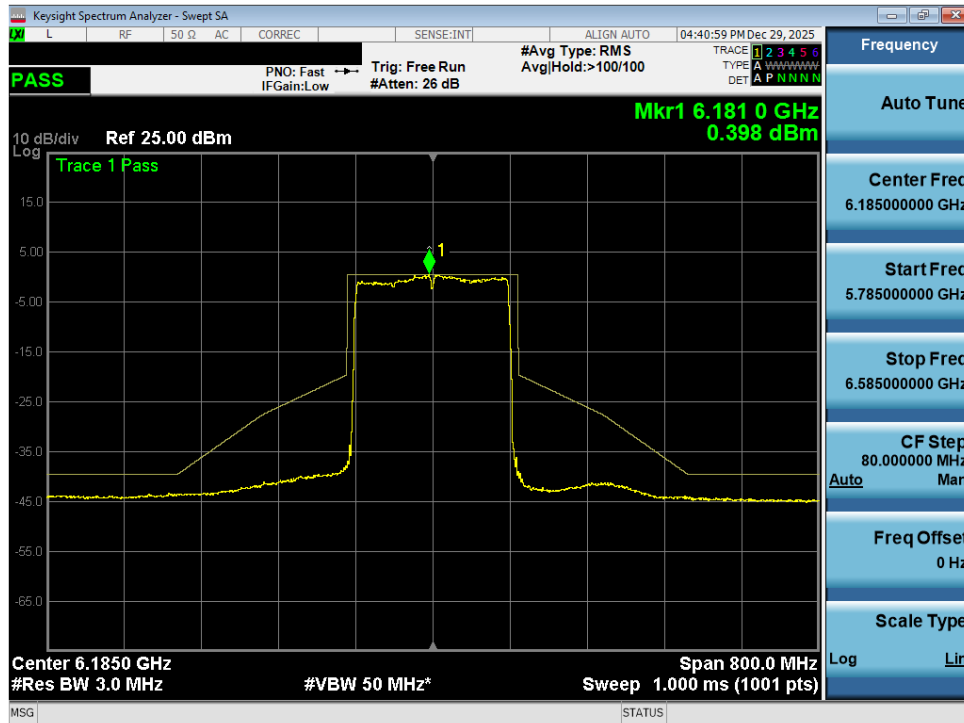


Plot 7-93. In-Band Emission MIMO ANT2 (40MHz 802.11ax/be (UNII Band 5) – Ch. 43) - SP

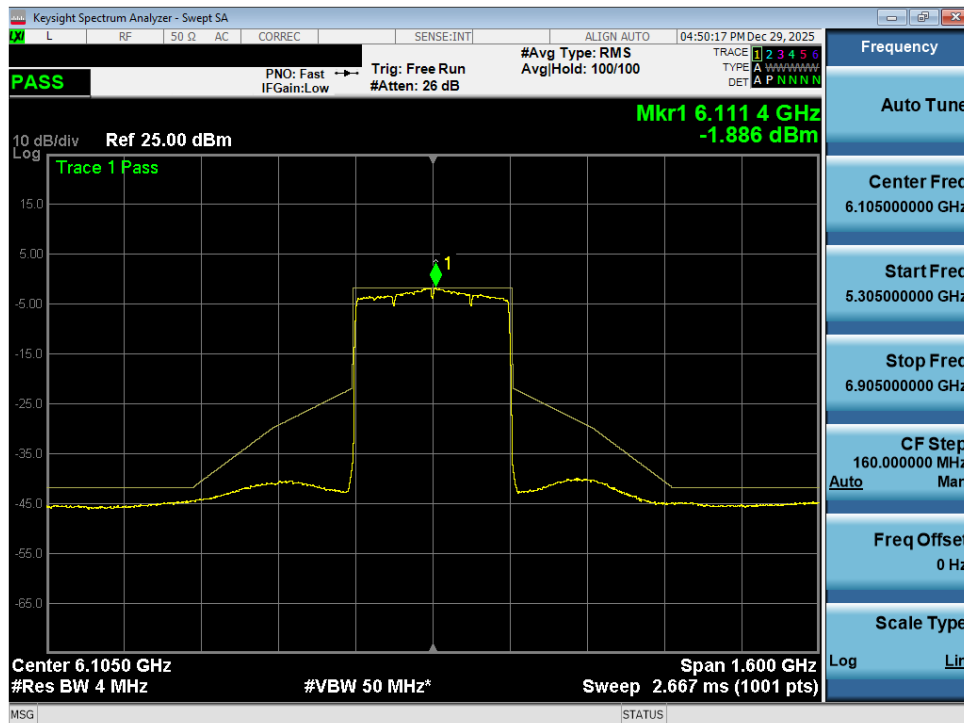


Plot 7-94. In-Band Emission MIMO ANT2 (80MHz 802.11ax/be (UNII Band 5) – Ch. 39) - SP

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE		Approved by: Technical Manager
Test Report S/N: 1M2511200095-08-R2.C3K	Test Dates: 12/16/2025 - 02/17/2026	EUT Type: Portable Computing Device	Page 91 of 140

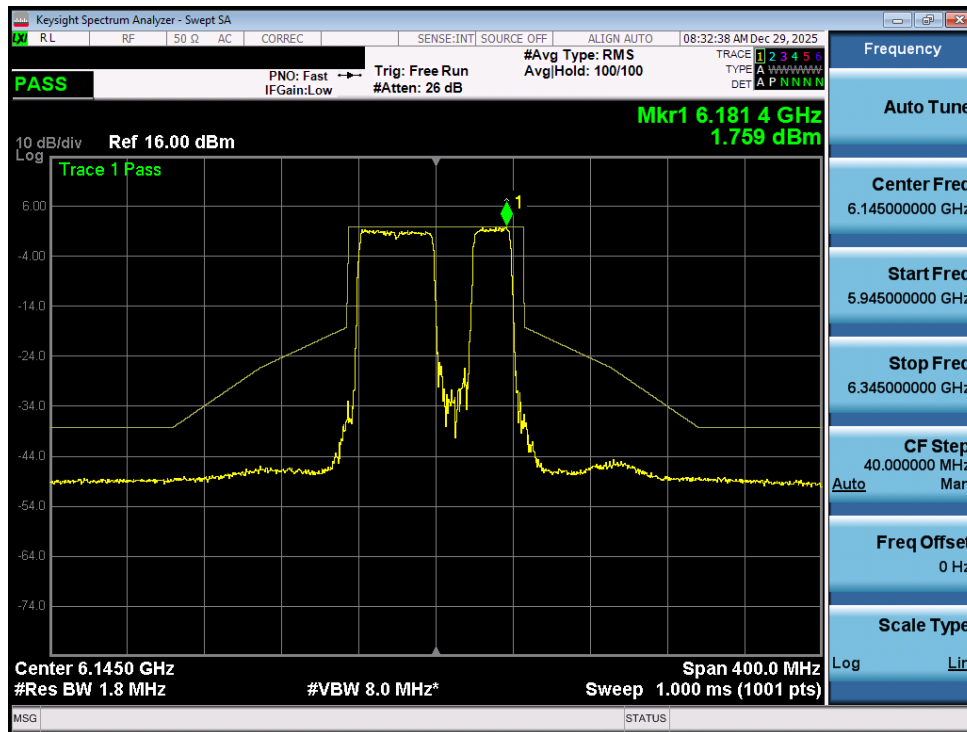


Plot 7-95. In-Band Emission MIMO ANT2 (160MHz 802.11ax/be (UNII Band 5) – Ch. 47) - SP

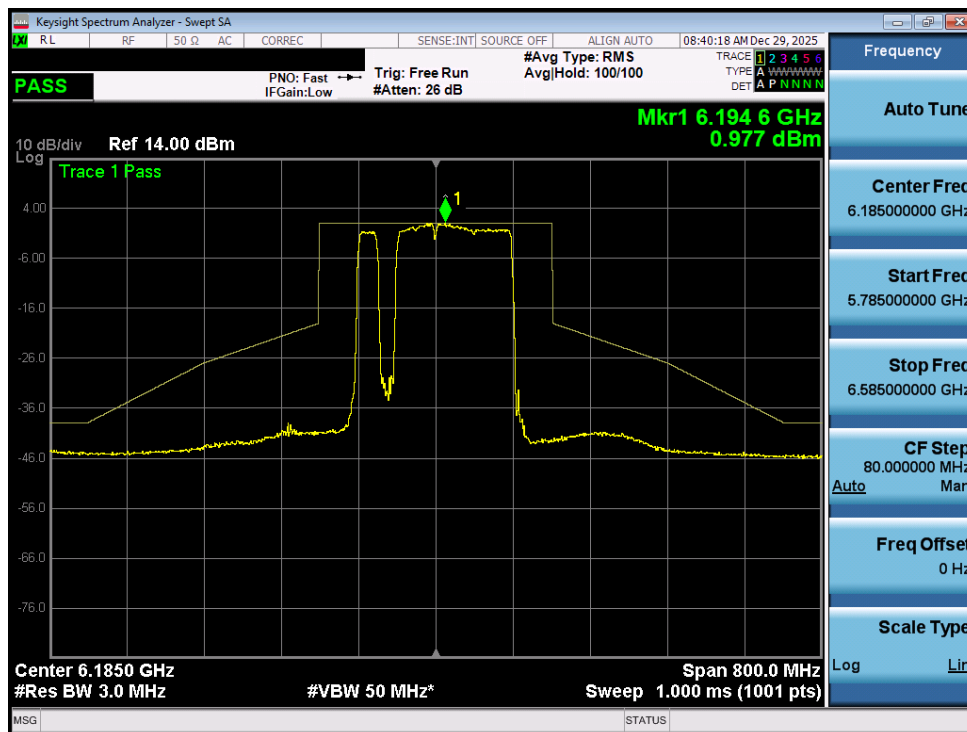


Plot 7-96. In-Band Emission MIMO ANT2 (320MHz 802.11ax/be (UNII Band 5) – Ch.31) - SP

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE		Approved by: Technical Manager
Test Report S/N: 1M2511200095-08-R2.C3K	Test Dates: 12/16/2025 - 02/17/2026	EUT Type: Portable Computing Device	Page 92 of 140

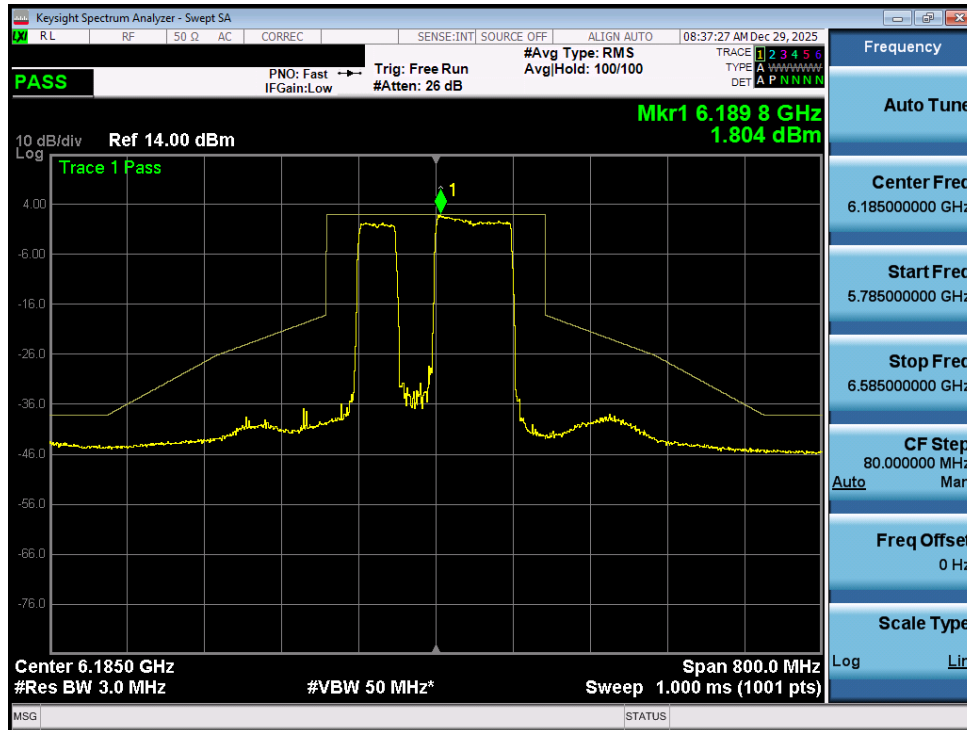


Plot 7-97. In-Band Emission MIMO ANT1 (80MHz 802.11be (UNII Band 5) – Ch. 39) – SP Punctured

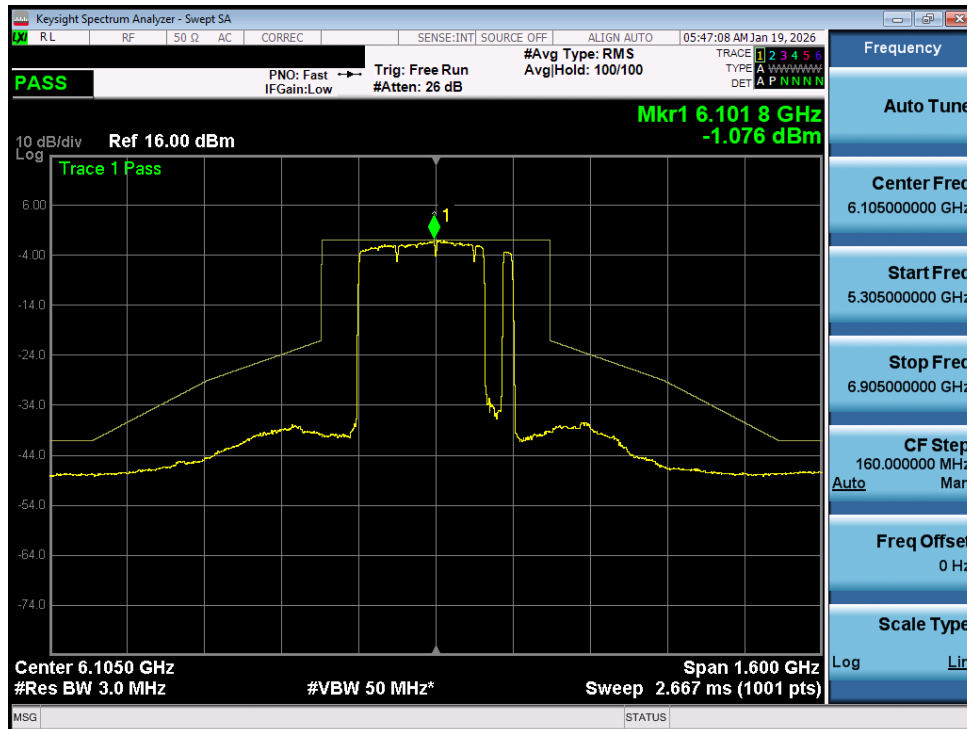


Plot 7-98. In-Band Emission MIMO ANT1 (160MHz 802.11ax/be (UNII Band 5) – Ch. 47) - SP Punctured

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE		Approved by: Technical Manager
Test Report S/N: 1M2511200095-08-R2.C3K	Test Dates: 12/16/2025 - 02/17/2026	EUT Type: Portable Computing Device	Page 93 of 140

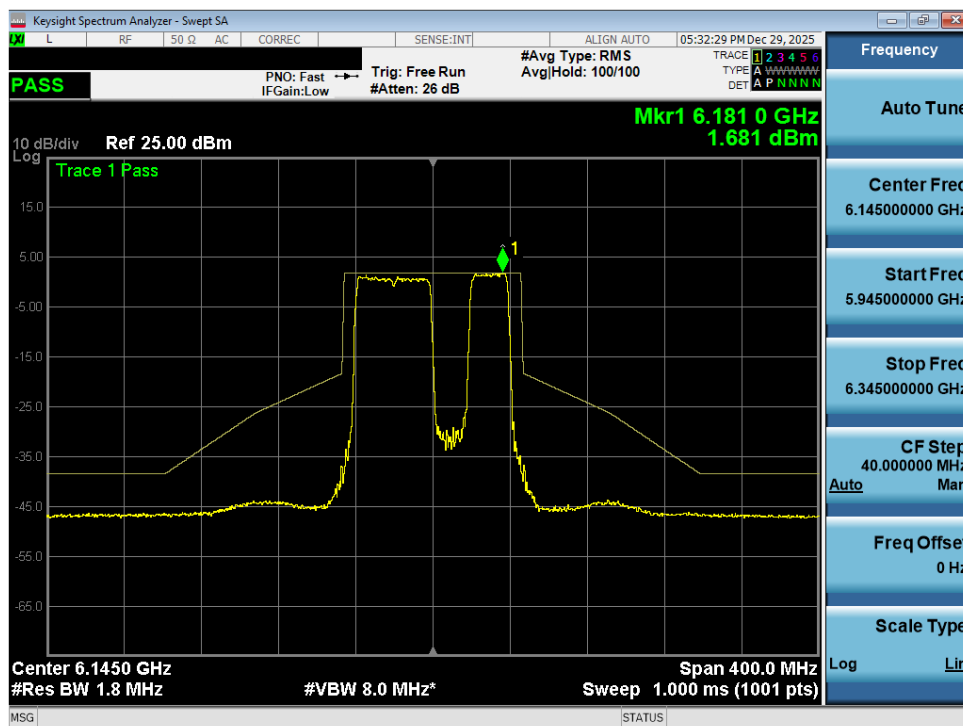


Plot 7-99. In-Band Emission MIMO ANT1 (160MHz 802.11ax/be (UNII Band 5) – Ch. 47) - SP Punctured

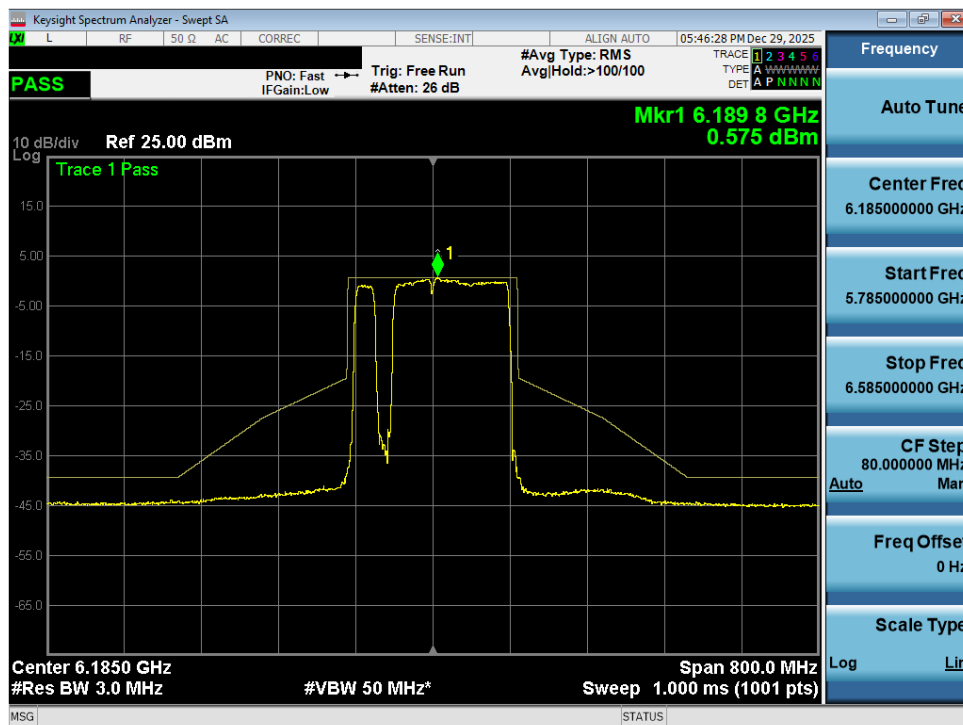


Plot 7-100. In-Band Emission MIMO ANT1 (320MHz 802.11ax/be (UNII Band 5) – Ch. 31) - SP Punctured

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE		Approved by: Technical Manager
Test Report S/N: 1M2511200095-08-R2.C3K	Test Dates: 12/16/2025 - 02/17/2026	EUT Type: Portable Computing Device	Page 94 of 140

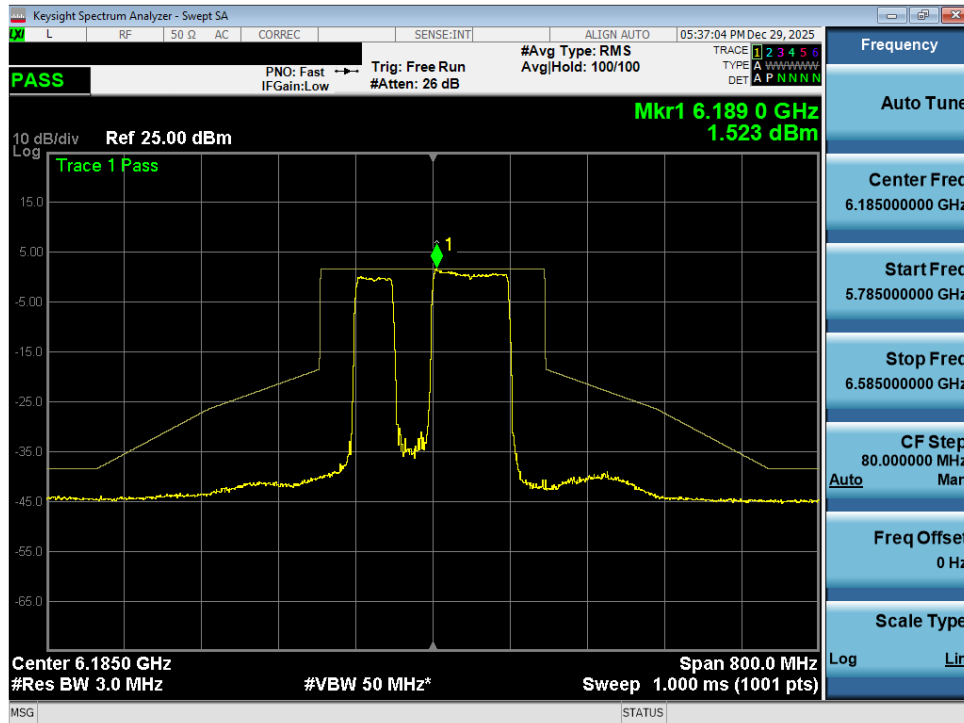


Plot 7-101. In-Band Emission MIMO ANT2 (80MHz 802.11be (UNII Band 5) – Ch. 39) – SP Punctured

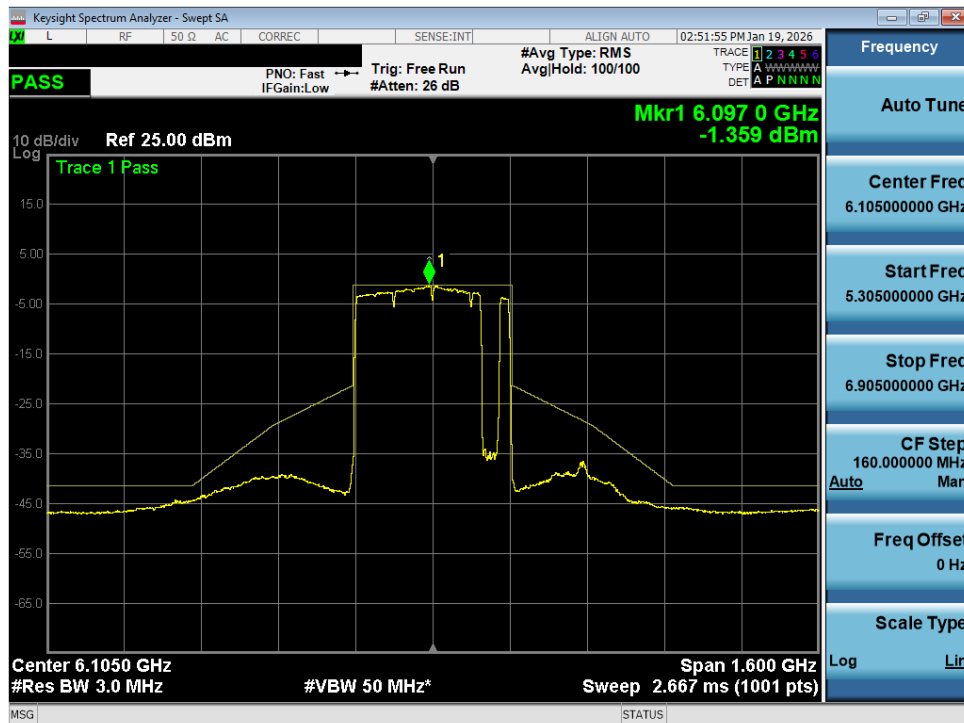


Plot 7-102. In-Band Emission MIMO ANT2 (160MHz 802.11ax/be (UNII Band 5) – Ch. 47) - SP Punctured

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Plot 7-103. In-Band Emission MIMO ANT2 (160MHz 802.11ax/be (UNII Band 5) – Ch. 47) - SP Punctured



Plot 7-104. In-Band Emission MIMO ANT2 (320MHz 802.11ax/be (UNII Band 5) – Ch. 31) - SP Punctured

7.6 Contention Based Protocol

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Test Overview and Limit

Indoor access points, subordinate devices and client devices operating in the 5.925-7.125 GHz band (herein referred to as unlicensed devices) are required to use technologies that include a contention-based protocol to avoid co-channel interference with incumbent devices sharing the band. To ensure incumbent co-channel operations are detected in a technology-agnostic manner, unlicensed devices are required to detect co-channel radio frequency energy (energy detect) and avoid simultaneous transmission.

Test Procedure Used

KDB 987594 D02 v02r01

Test Settings

1. Configure the EUT to transmit with a constant duty cycle.
2. Set the operating parameters of the EUT including power level, operating frequency, modulation, and bandwidth.
3. Set the signal analyzer center frequency to the nominal EUT channel center frequency. The span range of the signal analyzer shall be between two times and five times the OBW of the EUT. Connect the output port of the EUT to the signal analyzer 2. Ensure that the attenuator 2 provides enough attenuation to not overload the signal analyzer 2 receiver.
4. Monitoring the signal analyzer 2, verify the EUT is operating and transmitting with the parameters set at step two.
5. Using an AWGN signal source, generate (but do not transmit, i.e., RF OFF) a 10 MHz-wide AWGN signal. Use Table 1 to determine the center frequency of the 10 MHz AWGN signal relative to the EUT's channel bandwidth and center frequency.
6. Set the AWGN signal power to an extremely low level (more than 20 dB below the -62 dBm threshold). Connect the AWGN signal source, via a 3-dB splitter, to the signal analyzer 1 and the EUT as shown in Figure 2.
7. Transmit the AWGN signal (RF ON) and verify its characteristics on the signal analyzer 1.
8. Monitor the signal analyzer 2 to verify if the AWGN signal has been detected and the EUT has ceased transmission. If the EUT continues to transmit, then incrementally increase the AWGN signal power level until the EUT stops transmitting.
9. (Including all losses in the RF paths) Determine and record the AWGN signal power level (at the EUT's antenna port) at which the EUT ceased transmission. Repeat the procedure at least 10 times to verify the EUT can detect an AWGN signal with 90% (or better) level of certainty.
10. Refer to Table 1 of KDB 987594 D02 v02r01 to determine the number of times the detection threshold testing needs to be repeated. If testing is required more than once, then go back to step 5, choose a different center frequency for the AWGN signal, and repeat the process.

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Test Setup

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

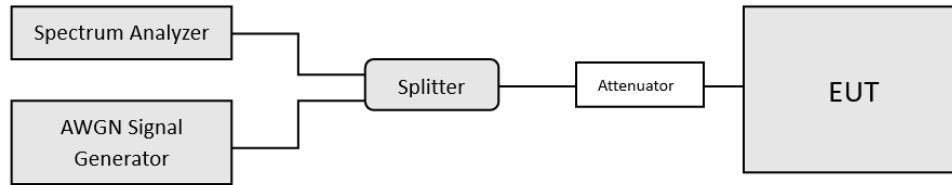


Figure 7-5. Contention-based protocol test setup conducted method.

Test Notes

1. Per guidance from KDB 987594 D02 v02r01, contention-based protocol was tested using an AWGN signal with a bandwidth of 10MHz (see Plot 7-190). The amplitude of the signal was increased until detected by the EUT, signaled by the ceasing of transmission (see Plot 7-191), M1 indicates the point at which the AWGN signal is introduced. D1 indicates where the AWGN signal is terminated, at least 10 seconds following M1.
2. 15 trials were run to assure that at least 90% of certainty was met.
3. Per Guidance from KDB 987594 D04 v01, contention-based protocol was tested with receiver with the lowest antenna gain.
4. All CBP Timing Plots shown are for the ceased condition. Some spikes that may be shown are from adjacent portions of the spectrum that are still transmitting.
5. In the presence of an AWGN signal, the EUT was shown to either completely move out of the channel or to reduce its bandwidth for the purpose of incumbent avoidance. Representative channel move plots are included for one sub-band to show how the channel reduces when the AWGN is injected at the lower edge, the center, and the upper edge of a channel.
6. This device only punctures to optimize network performance and never to avoid licensed incumbents.
7. For the channel move demonstration in Section 7.6.3, only plots from UNII-5 band are included. Additionally, the AWGN signal is not visible because the AWGN level is well below the noise floor.

$$\text{Detection Level} = \text{Injected AWGN Power (dBm)} - \text{Antenna Gain (dBi)} + \text{Path Loss (dB)}$$

Equation 7-1. Detection Level Calculation

Band	Channel	Channel Freq [MHz]	Channel BW [MHz]	Incumbent Freq [MHz]	Injected (AWGN) [dBm]	Antenna Gain [dBi]	Path Loss (dB)	Adjusted Power Level [dBm]	Detection Limit [dBm]	Margin [dB]
UNII Band 5	53	6215	20	6215	-62.15	2.95	1.50	-63.60	-62.0	-1.60
				6110	-64.22	2.95	1.50	-65.67	-62.0	-3.67
	63	6265	320	6265	-67.20	2.95	1.50	-68.65	-62.0	-6.65
				6420	-66.73	2.95	1.50	-68.18	-62.0	-6.18
UNII Band 6	101	6455	20	6455	-64.17	2.52	1.50	-65.19	-62.0	-3.19
				6270	-67.99	2.52	1.50	-69.01	-62.0	-7.01
	95	6425	320	6425	-69.79	2.52	1.50	-70.81	-62.0	-8.81
				6580	-63.38	2.52	1.50	-64.40	-62.0	-2.40
UNII Band 7	149	6695	20	6695	-65.01	3.71	1.50	-67.22	-62.0	-5.22
				6590	-74.83	3.71	1.50	-77.04	-62.0	-15.04
	159	6745	320	6745	-72.12	3.71	1.50	-74.33	-62.0	-12.33
				6900	-60.03	3.71	1.50	-62.24	-62.0	-0.24
UNII Band 8	197	6935	20	6935	-62.89	3.62	1.50	-65.01	-62.0	-3.01
				6750	-71.76	3.62	1.50	-73.88	-62.0	-11.88
	191	6905	320	6905	-69.99	3.62	1.50	-72.11	-62.0	-10.11
				7060	-71.93	3.62	1.50	-74.05	-62.0	-12.05

Table 7-46. Contention Based Protocol – Incumbent Detection Results

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Band	Channel	Channel Freq [MHz]	Channel BW [MHz]	Incumbent Freq [MHz]	Antenna Gain [dBi]	EUT Transmission Status			Detection Limit [dBm]	Margin [dB]
						Adjusted AWGN Power (dBm)				
						Normal	Minimal	Ceased		
UNII Band 5	53	6215	20	6215	2.95	-68.90	-64.45	-63.60	-62.0	-1.60
	31	6105	320	5950	2.95	-66.90	-66.19	-65.67	-62.0	-3.67
				6105	2.95	-74.90	-69.89	-68.65	-62.0	-6.65
				6260	2.95	-71.96	-68.59	-68.18	-62.0	-6.18
UNII Band 6	101	6455	20	6455	2.52	-68.52	-67.97	-65.19	-62.0	-3.19
	95	6425	320	6270	2.52	-74.11	-70.20	-69.01	-62.0	-7.01
				6425	2.52	-79.02	-73.71	-70.81	-62.0	-8.81
				6580	2.52	-68.70	-64.41	-64.40	-62.0	-2.40
UNII Band 7	149	6695	20	6695	3.71	-71.57	-69.31	-67.72	-62.0	-5.72
	159	6745	320	6590	3.71	-82.20	-80.51	-77.54	-62.0	-15.54
				6745	3.71	-84.04	-77.08	-74.83	-62.0	-12.83
				6900	3.71	-68.67	-63.87	-62.74	-62.0	-0.74
UNII Band 8	197	6935	20	6935	3.62	-72.45	-65.71	-65.60	-62.0	-3.60
	191	6905	320	6750	3.62	-83.52	-77.11	-74.47	-62.0	-12.47
				6905	3.62	-78.22	-74.26	-72.70	-62.0	-10.70
				7060	3.62	-79.51	-77.63	-74.64	-62.0	-12.64

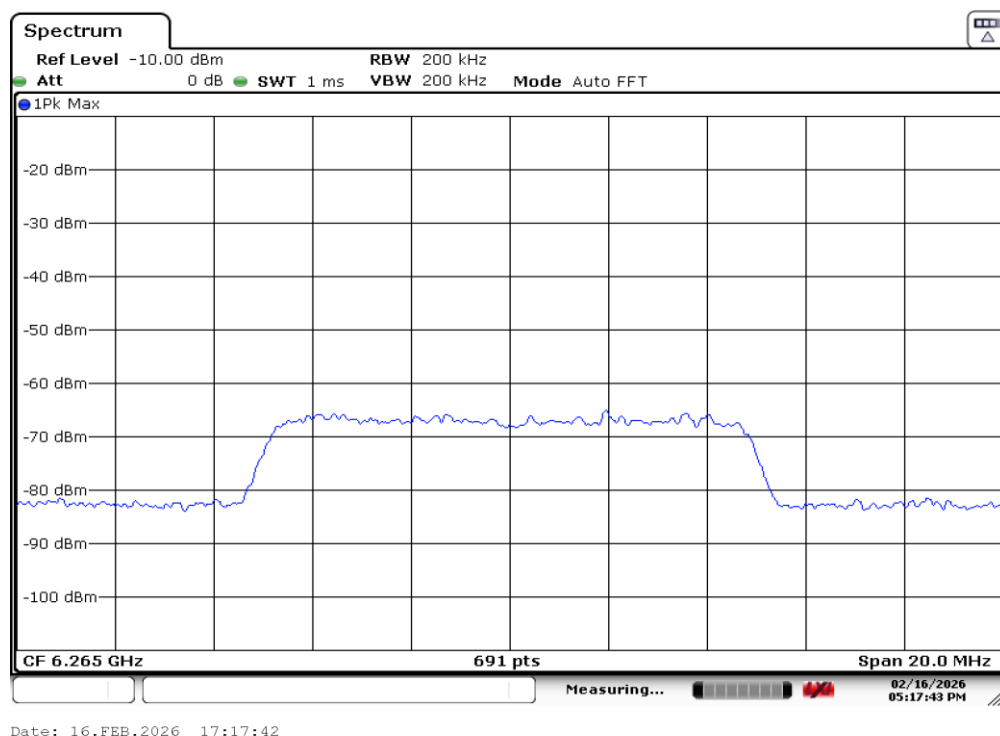
Table 7-47. Contention Based Protocol – Detection Results – All Tx Cases

CBP Detection (1 = Detection, Blank = No Detection)																			
Band	Channel	Channel Freq [MHz]	Channel BW [MHz]	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	Detection Rate (%)
UNII Band 5	53	6215	20	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100
	31	6105	320	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100
				1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100
				1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100
UNII Band 6	101	6455	20	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100
	95	6425	320	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100
				1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100
				1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100
UNII Band 7	149	6695	20	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100
	159	6745	320	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100
				1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100
				1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100
UNII Band 8	197	6935	20	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100
	191	6905	320	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100
				1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100
				1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100

Table 7-48. Contention Based Protocol – Incumbent Detection Trial Results

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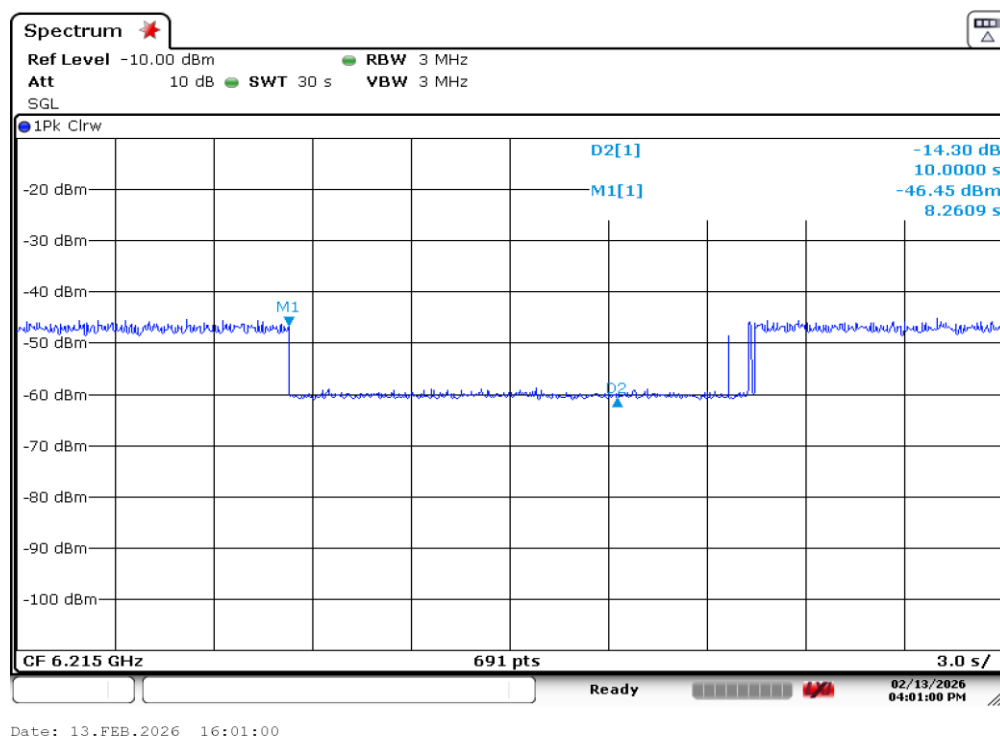
7.6.1 AWGN Plots



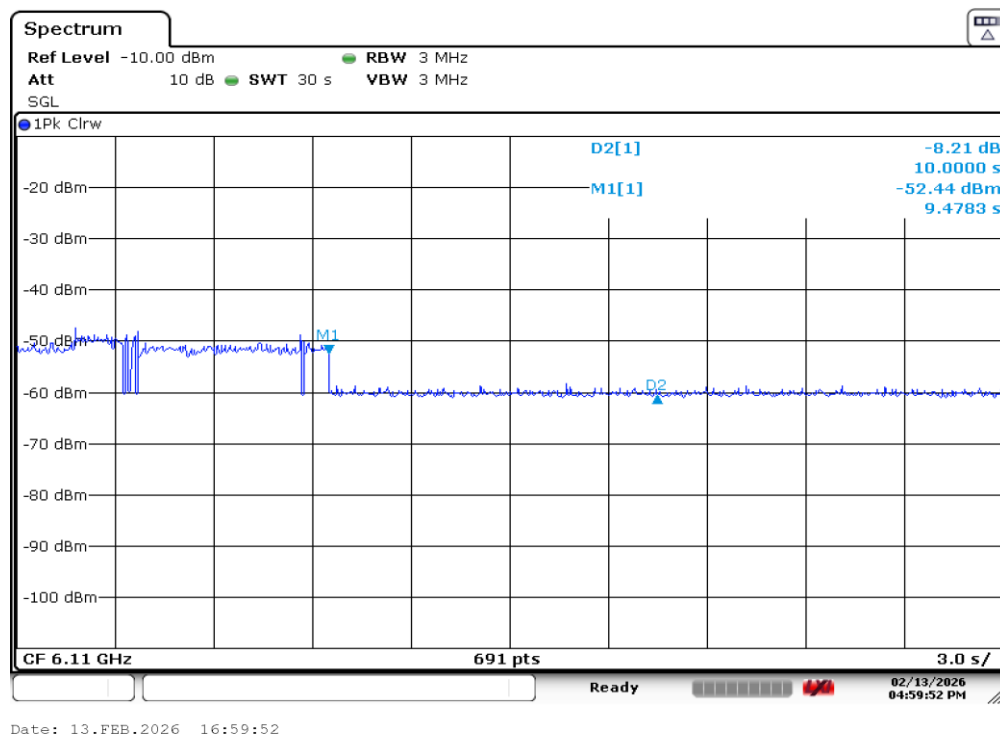
Plot 7-105. AWGN Signal (Demonstration)

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE		Approved by: Technical Manager
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7.6.2 CBP Timing Plots

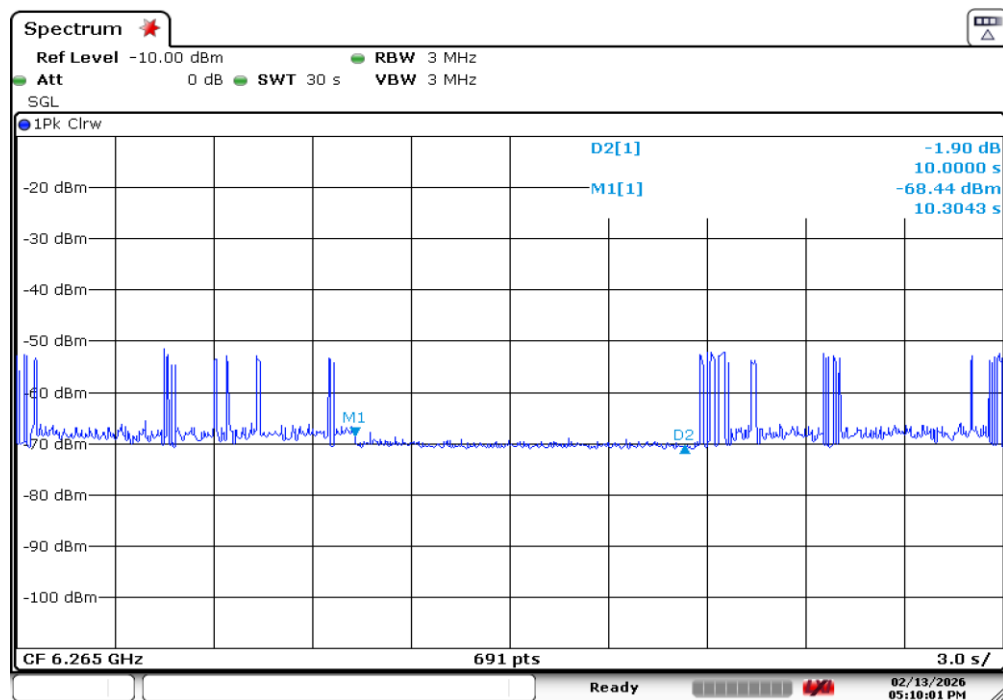


Plot 7-106. Contention Based Protocol Timing Plot (20MHz (UNII Band 5) – Ch. 53)



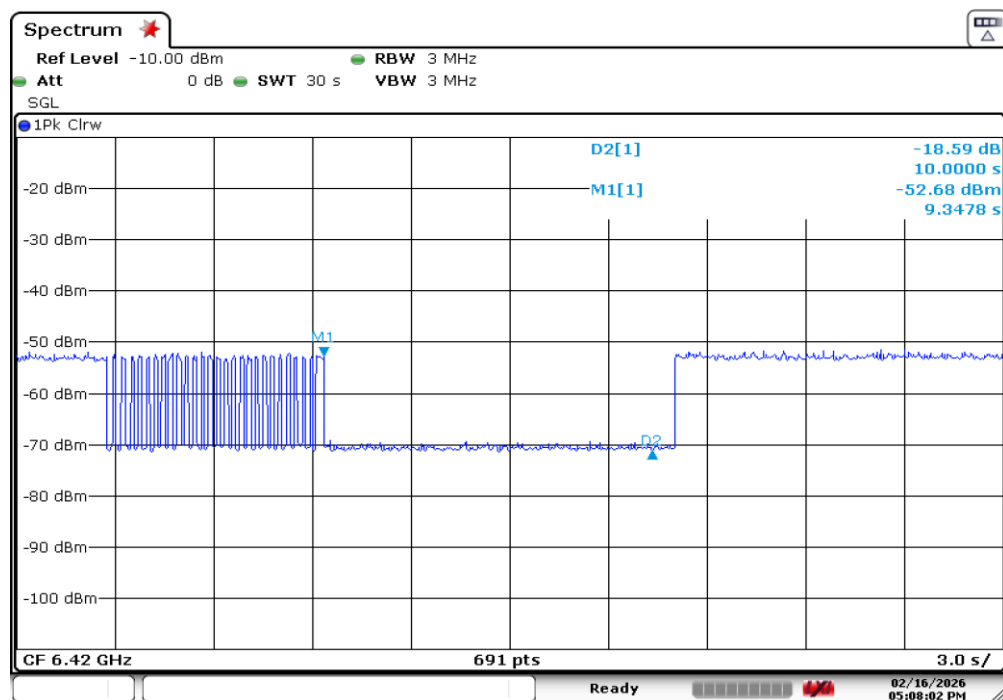
Plot 7-107. Contention Based Protocol Timing Plot (320MHz (UNII Band 5) – Ch. 31 Low)

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE		Approved by: Technical Manager
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Date: 13.FEB.2026 17:10:00

Plot 7-108. Contention Based Protocol Timing Plot (320MHz (UNII Band 5) – Ch. 31 Mid)



Date: 16.FEB.2026 17:08:03

Plot 7-109. Contention Based Protocol Timing Plot (320MHz (UNII Band 5) – Ch. 31 High)

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE		Approved by: Technical Manager
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