



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 15.407 802.11a/n/ac/ax/be (OFDM)

Applicant Name:

Samsung Electronics Co., Ltd.
129, Samsung-ro,
Yeongtong-gu, Suwon-si
Gyeonggi-do, 16677, Korea

Date of Testing:

02/24/2025 - 05/05/2025

Test Report Issue Date:

5/22/2025

Test Site/Location:

Element Lab., Columbia, MD, USA

Test Report Serial No.:

1M2504070040-07.A3L

FCC ID:

A3LSMF966JPN

APPLICANT:

Samsung Electronics Co., Ltd.

Application Type:

Certification

Model:

SC-56F

Additional Model(s):

SCG34

EUT Type:

Portable Handset

Frequency Range:

5180 – 5885MHz

Modulation Type:

OFDM

FCC Equipment Class:

Unlicensed National Information Infrastructure TX (NII)

FCC Rule Part(s):

Part 15 Subpart E (15.407)

Test Procedure(s):

ANSI C63.10-2020, KDB 648474 D03 v01r04,
KDB 484596 D01 v03

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

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

RJ Ortanez
Executive Vice President



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V11.2 9/11/2024

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Channel Bandwidth [MHz]	UNII Band	Tx Frequency [MHz]	Ant1		Ant2		MIMO	
			Max. Power [mW]	Max. Power [dBm]	Max. Power [mW]	Max. Power [dBm]	Max. Power [mW]	Max. Power [dBm]
20	1	5180 - 5240	56.10	17.49	56.62	17.53	121.62	20.85
	2A	5260 - 5320	57.15	17.57	56.23	17.50	112.20	20.50
	2C	5500 - 5720	55.21	17.42	59.43	17.74	116.34	20.66
	3	5745 - 5825	56.49	17.52	55.98	17.48	112.36	20.51
	4	5845 - 5885	23.71	13.75	11.35	10.55	66.58	18.23
40	1	5190 - 5230	57.41	17.59	56.49	17.52	115.61	20.63
	2A	5270 - 5310	56.49	17.52	56.36	17.51	109.14	20.38
	2C	5510 - 5710	57.15	17.57	62.81	17.98	115.35	20.62
	3	5755 - 5795	53.46	17.28	55.59	17.45	114.29	20.58
	4	5835 - 5875	25.47	14.06	13.12	11.18	76.50	18.84
80	1	5210	11.14	10.47	11.35	10.55	22.91	13.60
	2A	5290	14.09	11.49	14.09	11.49	26.65	14.26
	2C	5530 - 5690	62.95	17.99	62.95	17.99	118.85	20.75
	3	5775	60.67	17.83	62.52	17.96	117.14	20.69
	4	5855	26.55	14.24	12.56	10.99	72.46	18.60
160	1/2A	5250	17.70	12.48	16.18	12.09	39.17	15.93
	2C	5570	29.04	14.63	29.11	14.64	59.84	17.77
	3/4	5815	14.19	11.52	6.70	8.26	39.87	16.01

EUT Overview

Note: The UNII Band 4 max power values shown in the above table are e.i.r.p values.

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1.0 INTRODUCTION

1.1 Scope

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

1.2 Element Test Location

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

1.3 Test Facility / Accreditations

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

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

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2.0 PRODUCT INFORMATION

2.1 Equipment Description

The Equipment Under Test (EUT) is the **Samsung Portable Handset FCC ID: A3LSMF966JPN**. The test data contained in this report pertains only to the emissions due to the EUT's UNII transmitter.

The authorization for these models (SC-56F and SCG34) utilize data referencing from FCC ID: A3LSMF966U (Model SM-F966U) as permitted per KDB 484596 v03. Data referencing data test results are included in Appendix A of this report.

Test Device Serial No.: 0080M, 0152M, 0167M, 0154M, 0125M, 0081M, 0351M, 0348M, 0347M, 0345M, 0317M

2.2 Device Capabilities

This device contains the following capabilities:

850/1900 GSM/GPRS/EDGE, 850 WCDMA/HSPA, Multi-band LTE, Multi-band 5G NR (FR1), 802.11b/g/n/ax/be WLAN, 802.11a/n/ac/ax/be UNII (5GHz and 6GHz), Bluetooth (1x, EDR, LE), NFC, Wireless Power Transfer, UWB

Band 1		Band 2A		Band 2C		Band 3		Band 3/4	
Ch.	Frequency (MHz)	Ch.	Frequency (MHz)	Ch.	Frequency (MHz)	Ch.	Frequency (MHz)	Ch.	Frequency (MHz)
36	5180	52	5260	100	5500	149	5745	169	5845
:	:	:	:	:	:	:	:	:	:
40	5200	56	5280	120	5600	157	5785	173	5865
:	:	:	:	:	:	:	:	:	:
48	5240	64	5320	144	5720	165	5825	177	5885

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

Band 1		Band 2A		Band 2C		Band 3		Band 3/4	
Ch.	Frequency (MHz)	Ch.	Frequency (MHz)	Ch.	Frequency (MHz)	Ch.	Frequency (MHz)	Ch.	Frequency (MHz)
38	5190	54	5270	102	5510	151	5755	167	5835
:	:	:	:	:	:	:	:	:	:
46	5230	62	5310	118	5590	159	5795	175	5875
				:	:				
				142	5710				

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

Band 1		Band 2A		Band 2C		Band 3		Band 3/4	
Ch.	Frequency (MHz)	Ch.	Frequency (MHz)	Ch.	Frequency (MHz)	Ch.	Frequency (MHz)	Ch.	Frequency (MHz)
42	5210	58	5290	106	5530	155	5775	167	5835
				:	:				
				122	5610				
				:	:				
				138	5690				

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

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Band 1/2A		Band 2C		Band 3/4	
Ch.	Frequency (MHz)	Ch.	Frequency (MHz)	Ch.	Frequency (MHz)
50	5250	114	5570	163	5815

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

Notes:

- 5GHz NII operation is possible in 20MHz, 40MHz, 80MHz, and 160MHz channel bandwidths. The maximum achievable duty cycles for all modes were determined based on measurements performed on a spectrum analyzer in zero-span mode with RBW = 8MHz, VBW = 50MHz, and detector = peak per the guidance of Section B)2)b) of ANSI C63.10-2020. The RBW and VBW were both greater than 50/T, where T is the minimum transmission duration, and the number of sweep points across T was greater than 100. The duty cycles are as follows:

802.11 Mode/Band		ANT1		ANT2		MIMO (1+2)	
		Duty Cycle [%]	Radiated DCCF [dB]	Duty Cycle [%]	Radiated DCCF [dB]	Duty Cycle [%]	Radiated DCCF [dB]
5GHz	a	93.22	0.30	96.58	0.15	96.45	0.16
	n (HT20)	96.01	0.18	96.16	0.17	99.85	N/A
	ac (VHT20)	97.55	0.11	97.54	0.11	97.83	0.10
	ax (HE20)	99.66	N/A	99.53	N/A	99.42	N/A
	be (EHT20)	99.95	N/A	99.95	N/A	99.56	N/A
	n (HT40)	96.87	0.14	95.27	0.21	97.82	0.10
	ax (HE40)	99.41	N/A	99.56	N/A	99.49	N/A
	be (EHT40)	99.27	N/A	99.83	N/A	99.56	N/A
	ac (VHT80)	85.51	0.68	94.93	0.23	99.14	N/A
	ax (HE80)	99.27	N/A	99.56	N/A	99.56	N/A
	be (EHT80)	99.56	N/A	99.56	N/A	99.56	N/A
	ac (HT160)	91.71	0.38	92.03	0.36	91.90	0.37
	ax (HE160)	99.56	N/A	99.63	N/A	99.56	N/A
	be (EHT160)	99.12	N/A	99.56	N/A	99.56	N/A

Table 2-5. Measured Duty Cycles

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

WiFi Configurations		SISO		SDM		CDD	
		ANT1	ANT2	ANT1	ANT2	ANT1	ANT2
5GHz	11a	✓	✓	✗	✗	✓	✓
	11n	✓	✓	✓	✓	✓	✓
	11ac	✓	✓	✓	✓	✓	✓
	11ax	✓	✓	✓	✓	✓	✓
	11be	✓	✓	✓	✓	✓	✓

Table 2-6. Antenna / Technology Configuration

✓ = Support ; ✗ = NOT Support

SISO = Single Input Single Output

SDM = Spatial Diversity Multiplexing – MIMO function

CDD = Cyclic Delay Diversity – 2Tx Function

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

802.11a	MCS Index				Spatial Stream	OFDM (802.11n/802.11ac)				OFDM (802.11ac)				OFDM (802.11ax/be)											
						20MHz		40MHz		80MHz		160MHz		20MHz				40MHz				80MHz			
						0.8µs GI	0.4µs GI	0.8µs GI	0.4µs GI	0.8µs GI	0.4µs GI	0.8µs GI	0.4µs 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
	HT	VHT	HE	EHT		0.8µs GI	0.4µs GI	0.8µs GI	0.4µs GI	0.8µs GI	0.4µs GI	0.8µs GI	0.4µs GI	0.8µs GI	1.6µs GI	3.2µs GI	0.8µs GI	1.6µs GI	3.2µs GI	0.8µs GI	1.6µs GI	3.2µs GI	0.8µs GI	1.6µs GI	3.2µs GI
6	0	0	0	0	1	6.5	7.2	13.5	15	29.3	32.5	58.5	65	8.6	8.1	7.3	17.2	16.3	14.6	34.4	32.5	29.3	72.1	68.1	61.3
9	1	1	1	1	1	13	14.4	27	30	58.5	65	117	130	17.2	16.3	14.6	34.4	32.5	29.3	72.1	68.1	61.3	144.1	136.1	122.5
12	2	2	2	2	1	19.5	21.7	40.5	45	87.8	97.5	175.5	195	25.8	24.4	21.9	51.6	48.8	43.9	108.1	102.1	91.9	216.2	204.2	183.8
18	3	3	3	3	1	26	28.9	54	60	117	130	234	260	34.4	32.5	29.3	68.8	65	58.5	144.1	136.1	122.5	288.2	272.2	245
24	4	4	4	4	1	39	43.3	81	90	175.5	195	351	390	51.6	48.8	43.9	103.2	97.5	87.8	216.2	204.2	183.8	432.4	408.3	367.5
36	5	5	5	5	1	52	57.8	108	120	234	260	468	520	68.8	65	58.5	137.6	130	117	288.2	272.2	245	576.5	544.4	490
48	6	6	6	6	1	58.5	65	121.5	135	263.3	292.5	526.5	585	77.4	73.1	65.8	154.9	146.3	131.6	324.3	306.3	275.6	648.5	612.5	551.3
54	7	7	7	7	1	65	72.2	135	150	292.5	325	585	650	86	81.3	73.1	172.1	162.5	146.3	360.3	340.3	306.3	720.6	680.6	612.5
		8	8	8	1	78	86.7	162	180	351	390	702	780	103.2	97.5	87.8	206.5	195	175.5	432.4	408.3	367.5	864.7	816.7	735
		9	9	9	1	N/A	N/A	180	200	390	433.3	780	866.7	114.7	108.3	97.5	229.4	216.7	195	480.4	453.7	408.3	960.8	907.4	816.7
				10	1									129	121.9	109.7	258.1	243.8	219.4	540.4	510.4	459.4	1080.9	1020.8	918.8
				11	1									143.4	135.4	121.9	286.8	270.8	243.8	600.5	567.1	510.4	1201	1134.3	1020.8
				12	1									154.9	146.3	131.6	309.7	292.5	263.3	648.5	612.5	551.3	1297.1	1225	1102.5
				13	1									172.1	162.5	146.3	344.1	325	292.5	720.6	680.6	612.5	1441.2	1361.1	1225
6	8	0	0	0	2	13	14.4	27	30	58.5	65	117	130	17.2	16.3	14.6	34.4	32.5	29.3	72.1	68.1	61.3	144.1	136.1	122.5
9	9	1	1	1	2	26	28.9	54	60	117	130	234	260	34.4	32.5	29.3	68.8	65	58.5	144.1	136.1	122.5	288.2	272.2	245
12	10	2	2	2	2	39	43.3	81	90	175.5	195	351	390	51.6	48.8	43.9	103.2	97.5	87.8	216.2	204.2	183.8	432.4	408.3	367.5
18	11	3	3	3	2	52	57.8	108	120	234	260	468	520	68.8	65	58.5	137.6	130	117	288.2	272.2	245	576.5	544.4	490
24	12	4	4	4	2	78	86.7	162	180	351	390	702	780	103.2	97.5	87.8	206.5	195	175.5	432.4	408.3	367.5	864.7	816.7	735
36	13	5	5	5	2	104	115.6	216	240	468	520	936	1040	137.6	130	117	275.3	260	234	576.5	544.4	490	1152.9	1088.9	980
48	14	6	6	6	2	117	130	243	270	526.5	585	1053	1170	154.9	146.3	131.6	309.7	292.5	263.3	648.5	612.5	551.3	1297.1	1225	1102.5
54	15	7	7	7	2	130	144.4	270	300	585	650	1170	1300	172.1	162.5	146.3	344.1	325	292.5	720.6	680.6	612.5	1441.2	1361.1	1225
		8	8	8	2	156	173.3	324	360	702	780	1404	1560	206.5	195	175.5	412.9	390	351	864.7	816.7	735	1729.4	1633.3	1470
		9	9	9	2	N/A	N/A	360	400	780	866.7	1560	1733.3	229.4	216.7	195	458.8	433.3	390	960.8	907.4	816.7	1921.6	1814.8	1633.3
				10	2									258.1	243.8	219.4	516.2	487.5	438.8	1080.9	1020.8	918.8	2161.8	2041.7	1837.5
				11	2									286.8	270.8	243.8	573.5	541.7	487.5	1201	1134.3	1020.8	2402	2268.5	2041.7
				12	2									309.7	292.5	263.3	619.4	585	526.5	1297.1	1225	1102.5	2594.1	2450	2205
				13	2									344.1	325	292.5	688.2	650	585	1441.2	1361.1	1225	2882.4	2722.2	2450

Table 2-7. Supported Data Rates

2.3 Antenna Description

The following antenna gains were used for the testing.

Frequency [GHz]	Antenna 1 Gain (dBi)	Antenna 2 Gain (dBi)	Directional Gain (dBi)
5.15-5.25	-3.52	-4.06	-0.78
5.25-5.35	-3.44	-3.59	-0.50
5.47-5.725	-4.53	-4.19	-1.35
5.725-5.85	-3.36	-6.39	-1.73
5.85-5.895	-3.75	-7.00	-2.21

Table 2-8. Antenna Peak Gain by Band

2.4 Test Configuration

ANSI C63.10-2020 was used to reference the appropriate EUT setup for radiated spurious emissions testing and AC line conducted testing. See Sections 3.2 for AC line conducted emissions test setups, 7.6 for radiated emissions test setups, and 7.2, 7.3, 0, and 7.5 for antenna port conducted emissions test setups.

This device supports wireless charging capability and, thus, is subject to the test requirements of KDB 648474 D03 v01r04. Additional radiated spurious emission measurements were performed with the EUT lying flat on an authorized wireless charging pad (WCP) Model: EP-2400 while operating under normal conditions in a simulated call or data transmission configuration. The worst case radiated emissions data is shown in this report.

This device supports three folder configurations: one is with folder fully open, one is where the folder is half open (90 degrees), and one is with folder closed. All configurations are tested, and the worst case radiated emissions data is shown in this report.

2.5 Software and Firmware

The test was conducted with software/firmware version FAV0_F966UFAU0AYB3 installed on the EUT.

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2.6 EMI Suppression Device(s) / Modifications

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

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3.0 DESCRIPTION OF TESTS

3.1 Evaluation Procedure

The measurement procedures described in the American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices (ANSI C63.10-2020) was used in the measurement of the EUT.

Deviation from measurement procedure.....None

3.2 AC Line Conducted Emissions

The line-conducted facility is located inside a 10'x16'x9' shielded enclosure. The shielded enclosure is manufactured by ETS Lindgren RF Enclosures. The 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 7.7. The EMI Receiver mode of the Agilent MXE was used to perform AC line conducted emissions testing.

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3.3 Radiated Emissions

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

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

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

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

3.4 Environmental Conditions

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

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4.0 ANTENNA REQUIREMENTS

Excerpt from §15.203 of the FCC Rules/Regulations:

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

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

Conclusion:

The EUT complies with the requirement of §15.203.

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5.0 MEASUREMENT UNCERTAINTY

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

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

Table 5-1. Measurement Uncertainty Budget

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6.0 TEST EQUIPMENT CALIBRATION DATA

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

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
-	WL25-1	Conducted Cable Set (25GHz)	2/25/2025	Annual	2/25/2026	WL25-1
-	WL25-2	Conducted Cable Set (25GHz)	2/25/2025	Annual	2/25/2026	WL25-2
-	WL40-1	Conducted Cable Set (40GHz)	2/25/2025	Annual	2/25/2026	WL40-1
-	MD 1M 18-40	EMC Cable and Switch System	2/25/2025	Annual	2/25/2026	MD 1M 18-40
-	AP2-001	EMC Cable and Switch System	2/25/2025	Annual	2/25/2026	AP2-001
-	ETS-001	EMC Cable and Switch System	2/25/2025	Annual	2/25/2026	ETS-001
Agilent	N9038A	MXE EMI Receiver	9/16/2024	Annual	9/16/2025	MY51210133
Agilent	N9020A	MXA Signal Analyzer	3/22/2024	Annual	3/22/2025	US46470561
Agilent	N9030A	PXA Signal Analyzer (44GHz)	10/16/2024	Annual	10/16/2025	MY49430494
Anritsu	MA24408A	Microwave Peak Power Sensor	5/21/2024	Annual	5/21/2025	11675
Anritsu	MA24408A	Microwave Peak Power Sensor	4/10/2024	Annual	4/10/2025	12798
EMCO	3115	Horn Antenna (1-18GHz)	9/6/2024	Biennial	9/6/2025	9704-5182
EMCO	3116	Horn Antenna (18-40GHz)	7/5/2023	Biennial	7/5/2025	9203-2178
ETS-Lindgren	3116C	Horn Antenna (18-40GHz)	2/27/2023	Biennial	2/27/2025	218893
Keysight Technologies	N9030A	PXA Signal Analyzer (44GHz)	4/9/2024	Annual	4/9/2025	MY52350166
Keysight Technologies	N9020A	MXA Signal Analyzer	4/11/2024	Annual	4/11/2025	MY54500644
Keysight Technologies	N9030A	PXA Signal Analyzer	2/29/2024	Annual	3/1/2025	MY55410501
Keysight Technologies	N9030B	PXA Signal Analyzer	9/19/2024	Annual	9/19/2025	MY57141001
Pasternack	NMLC-2	Line Conducted Emissions Cable	4/2/2024	Annual	4/2/2025	NMLC-2
Rohde & Schwarz	TC-TA18	Vivaldi Antenna	4/15/2024	Biennial	4/15/2026	101058
Rohde & Schwarz	FSW26	Spectrum Analyzer (26.5GHz)	3/8/2024	Annual	3/8/2025	103187
Rohde & Schwarz	ESU26	EMI Test Receiver (26.5GHz)	10/16/2024	Annual	10/16/2025	100342
Rohde & Schwarz	ESU40	EMI Test Receiver (40GHz)	11/25/2024	Annual	11/25/2025	100348
Rohde & Schwarz	ENV216	Two-Line V-Network	4/24/2024	Biennial	4/24/2025	101379
Rohde & Schwarz	ESW44	EMI Test Receiver (44GHz)	4/5/2024	Annual	4/5/2025	101716
Rohde & Schwarz	SMW200A	Vector Signal Generator	4/4/2024	Annual	4/4/2025	109456
Rohde & Schwarz	ESW44	EMI Test Receiver (44GHz)	4/5/2024	Annual	4/5/2025	101716
Sunol	JB6	Bi-Log Antenna (20M-6GHz)	3/2/2023	Biennial	3/2/2025	A082816
Sunol	JB5	Bi-Log Antenna (20M-5GHz)	9/11/2024	Biennial	9/11/2026	A051107

Table 6-1. Test Equipment Calibration Table

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

Table 6-3. WL25-2 Conducted Cable Set Components

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

Table 6-4. WL40-1 Conducted Cable Set Components

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

Table 6-5. 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 6-6. 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 6-7. MD 1M 18-40 EMC Cable and Switch System Components

Note:

For equipment listed above that has a calibration date or calibration due date that falls within the test date range, care was taken to ensure that this equipment was used after the calibration date and before the calibration due date.

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7.0 TEST RESULTS

7.1 Summary

Company Name: Samsung Electronics Co., Ltd.
 FCC ID: A3LSMF966JPN
 FCC Classification: Unlicensed National Information Infrastructure (NII)

FCC Part Section(s)	Test Description	Test Limit	Test Condition	Test Result	Reference	Data Referencing?
N/A	26dB Bandwidth	N/A	CONDUCTED	PASS	Section 7.2	Yes
15.407(e)	6dB Bandwidth	>500kHz(5725-5850MHz and 5850 – 5895MHz)		PASS	Section 7.3	Yes
15.407 (a)(1)(iv), (a)(2), (a)(3)	Maximum Conducted Output Power	Maximum conducted powers must meet the limits detailed in 15.407 (a)		PASS	Section 7.4	Yes
15.407 (a)(1)(iv), (a)(2), (a)(3)	Maximum Power Spectral Density	Maximum power spectral density must meet the limits detailed in 15.407 (a)		PASS	Section 7.5	Yes
15.407(h)	Dynamic Frequency Selection	See DFS Test Report		PASS	See DFS Test Report	No
15.407(b)(1), (b)(2), (b)(3), (b)(4)	Undesirable Emissions	Undesirable emissions must meet the limits detailed in 15.407(b)	RADIATED	PASS	Section 7.6	Yes
15.205, 15.407(b)(1), (b)(4), (b)(5), (b)(6)	General Field Strength Limits (Restricted Bands and Radiated Emission Limits)	Emissions in restricted bands must meet the radiated limits detailed in 15.209		PASS	Section 7.6	Yes
15.407	AC Conducted Emissions 150kHz – 30MHz	< FCC 15.207 limits	LINE CONDUCTED	PASS	Section 7.7	Yes

Table 7-1. Summary of Test Results

Notes:

- 1) All channels, modes, and modulations/data rates were investigated among all UNII bands. The test results shown in the following sections represent the worst-case emissions.
- 2) The analyzer plots shown in this section were all taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables and attenuators used as part of the system to connect the EUT to the analyzer at all frequencies of interest.
- 3) All antenna port conducted emissions testing was performed on a test bench with the antenna port of the EUT connected to the spectrum analyzer through calibrated cables and attenuators.
- 4) For conducted spurious emissions, automated test software was used to measure emissions and capture the corresponding plots necessary to show compliance. The measurement software utilized is Element “EMC Software Tool” Version 2.3.0.
- 5) For radiated band edge, automated test software was used to measure emissions and capture the corresponding plots necessary to show compliance. The measurement software utilized is Element “Chamber Automation,” Version 1.6.1.
- 6) All cases were investigated; a subset of the taken plots were included to represent relevant settings and measurements.
- 7) Data was leveraged from model SM-F966U for the certification of SC-56F. See Section 9.0 for spot-check results.

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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 C63.10-2020, and at the appropriate frequencies. The spectrum analyzer's bandwidth measurement function is configured to measure the 26dB bandwidth.

The 26dB bandwidth is used to determine the conducted power limits.

Test Procedure Used

ANSI C63.10-2020 – 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

None.

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MIMO 26dB Bandwidth Measurements

	Frequency [MHz]	Channel	802.11 MODE	Antenna-1 26dB Bandwidth [MHz]	Antenna-2 26dB Bandwidth [MHz]	Antenna-1 OBW [MHz]	Antenna-2 OBW [MHz]
Band 1	5180	36	a	21.32	20.93	16.98	16.81
	5200	40	a	21.01	21.31	16.95	16.80
	5240	48	a	21.64	21.26	18.01	16.83
	5180	36	n	21.34	21.43	18.04	17.90
	5200	40	n	21.72	21.68	18.03	17.97
	5240	48	n	21.77	21.78	17.96	17.95
	5180	36	be SU	21.65	22.26	19.22	19.24
	5200	40	be SU	21.66	21.31	19.19	19.19
	5240	48	be SU	21.46	21.61	19.20	19.19
	5190	38	n	42.74	42.98	38.22	38.16
	5230	46	n	43.75	43.23	36.89	36.76
	5190	38	be SU	42.64	42.69	38.27	38.16
	5230	46	be SU	43.10	42.56	38.19	38.18
	5210	42	ac	95.13	90.58	77.23	76.76
Band 1/2A	5210	42	be SU	93.33	89.84	78.75	78.18
	5250	50	ac	179.81	176.29	156.80	156.16
Band 2A	5250	50	be SU	175.59	175.27	157.72	157.78
	5260	52	a	21.06	20.81	16.91	16.80
	5280	56	a	21.59	21.08	16.95	16.82
	5320	64	a	20.99	20.62	16.88	16.81
	5260	52	n	21.66	21.40	18.01	17.95
	5280	56	n	21.65	21.25	18.02	17.95
	5320	64	n	21.56	21.72	18.03	17.93
	5260	52	be SU	21.80	21.81	19.20	19.21
	5280	56	be SU	21.84	21.93	19.17	19.18
	5320	64	be SU	21.69	21.34	19.18	19.22
	5270	54	n	43.72	43.13	36.74	36.72
	5310	62	n	43.37	43.43	36.71	36.73
	5270	54	be SU	42.69	42.35	38.12	38.18
	5310	62	be SU	42.63	43.05	38.21	38.27
	5290	58	ac	93.62	89.99	77.32	76.81
	5290	58	be SU	90.53	89.92	78.30	78.08
Band 2C	5500	100	a	21.17	21.34	16.85	16.79
	5600	120	a	21.10	21.24	16.86	16.84
	5720	144	a	21.13	20.92	16.97	16.79
	5500	100	n	21.71	21.44	17.95	17.91
	5600	120	n	21.50	21.35	17.96	17.89
	5720	144	n	21.71	21.44	18.03	18.04
	5500	100	be SU	21.80	22.06	19.19	19.15
	5600	120	be SU	21.69	21.60	19.19	19.21
	5720	144	be SU	21.96	22.07	19.17	19.24
	5510	102	n	43.60	43.23	36.87	36.80
	5590	118	n	43.87	43.70	36.70	36.81
	5710	142	n	43.50	42.93	36.76	36.69
	5510	102	be SU	43.00	42.21	38.19	38.10
	5590	118	be SU	43.63	42.01	38.23	38.12
	5710	142	be SU	42.71	42.36	38.14	38.25
	5530	106	ac	91.80	91.78	77.23	76.83
	5610	122	ac	91.65	93.08	77.10	77.09
	5690	138	ac	92.47	92.46	77.17	76.84
	5530	106	be SU	90.76	88.46	78.09	78.13
	5610	122	be SU	89.66	90.83	78.14	78.28
	5690	138	be SU	90.90	89.58	78.11	78.16
	5570	114	ac	178.25	176.84	156.56	156.52
	5570	114	be SU	175.97	174.75	157.78	157.74

Table 7-2. Bands 1, 2A, 2C Conducted 26dB Bandwidth Measurements MIMO

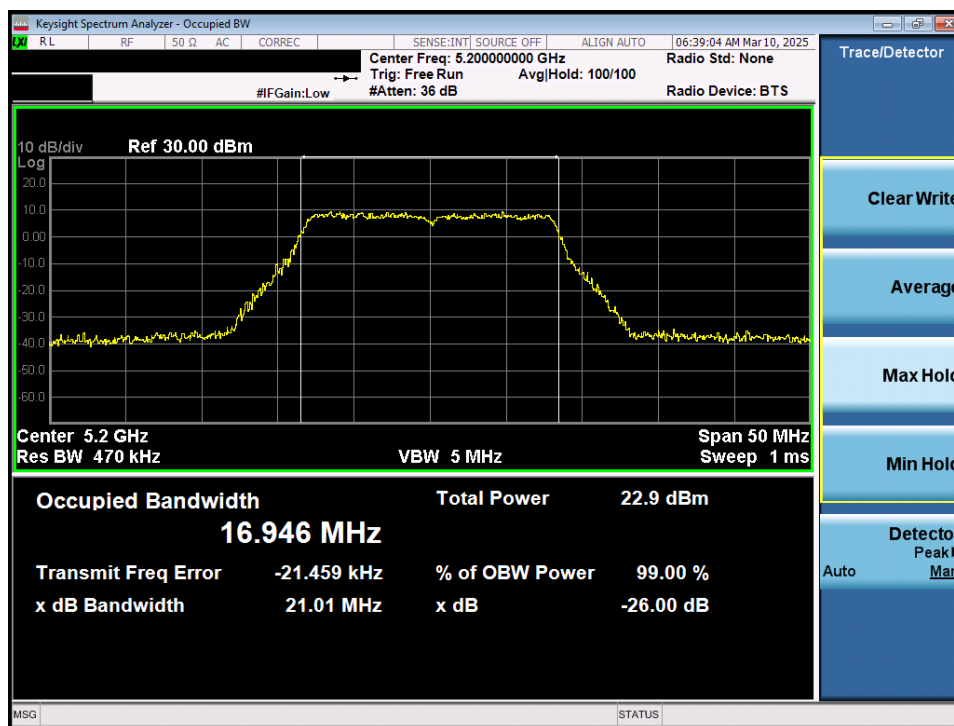
FCC ID: A3LSMF966JPN	MEASUREMENT REPORT		Approved by: Technical Manager
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	Frequency [MHz]	Channel	802.11 MODE	Puncture Size [MHz]	Antenna-1 26dB Bandwidth [MHz]	Antenna-2 26dB Bandwidth [MHz]	Antenna-1 OBW [MHz]	Antenna-2 OBW [MHz]
Band 1	5210	42	be	20	89.82	98.97	78.70	79.56
Band 1/2A	5250	50	be	20	174.53	177.19	157.89	158.67
	5250	50	be	40	174.91	178.05	158.16	158.63
Band 2A	5290	58	be	20	90.71	90.75	78.71	79.24
Band 2C	5610	122	be	20	92.80	91.45	78.93	78.95
	5570	114	be	20	175.01	176.50	158.03	157.69
	5570	114	be	40	173.20	175.58	158.41	158.66

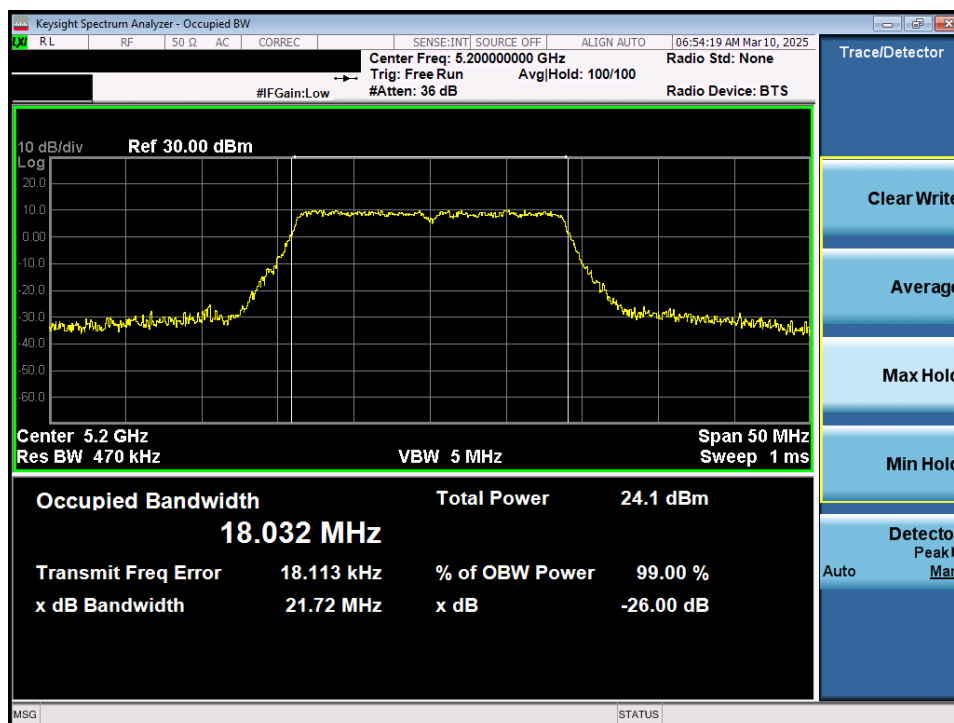
Table 7-3. Bands 1, 2A, 2C Conducted 26dB Bandwidth Measurements MIMO - Punctured

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7.2.1 MIMO Antenna-1 26dB Bandwidth Measurements

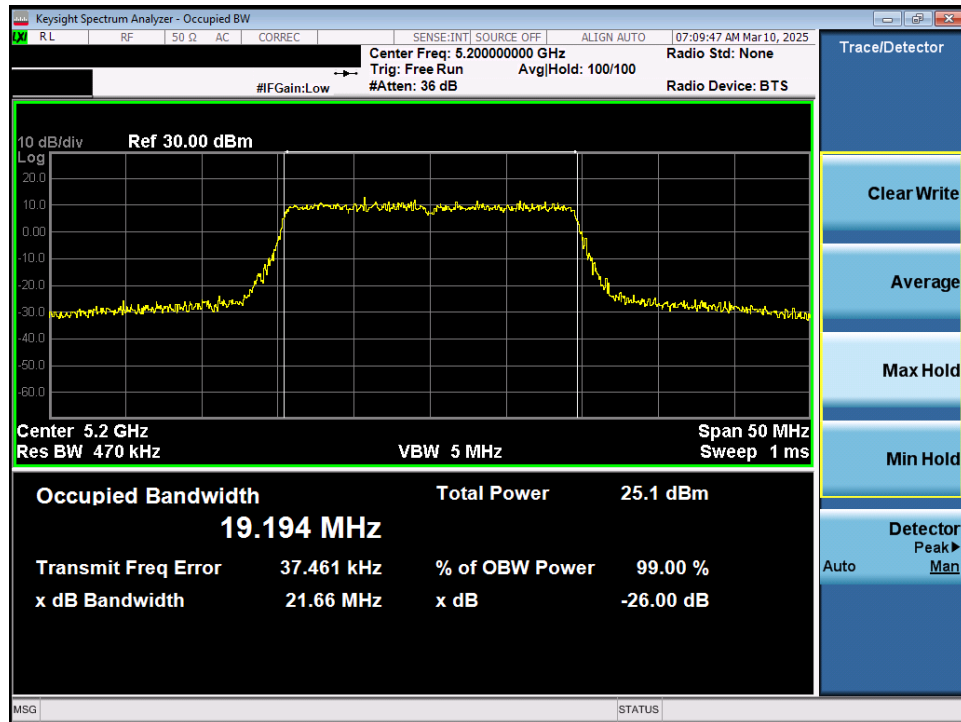


Plot 7-1. 26dB Bandwidth Plot MIMO ANT1 (20MHz 802.11a (UNII Band 1) – Ch. 40)

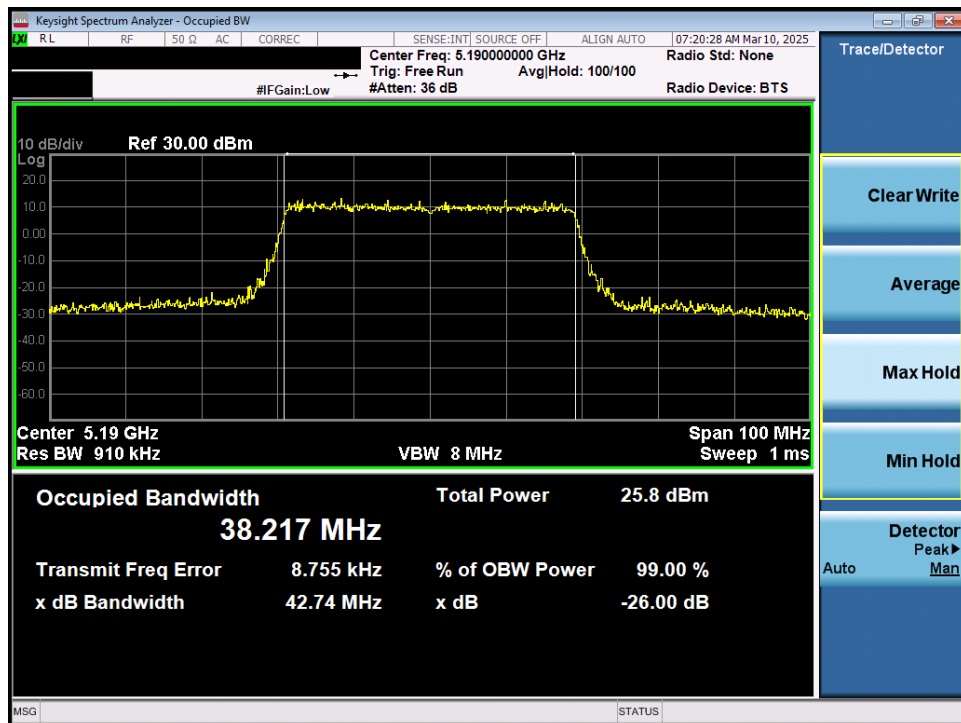


Plot 7-2. 26dB Bandwidth Plot MIMO ANT1 (20MHz 802.11n (UNII Band 1) – Ch. 40)

FCC ID: A3LSMF966JPN	MEASUREMENT REPORT		Approved by: Technical Manager
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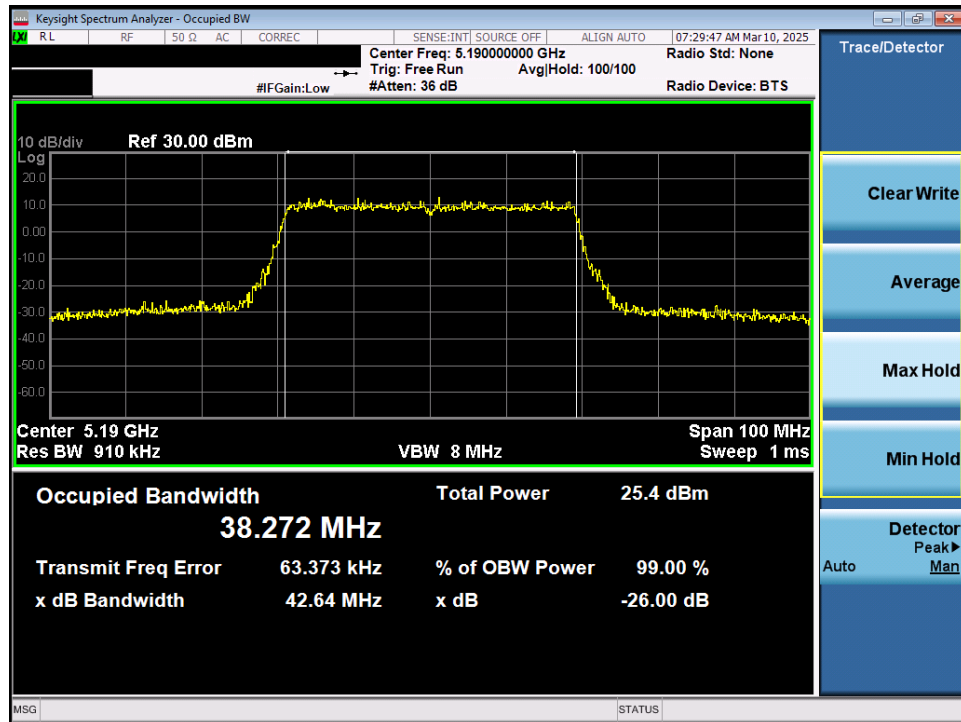


Plot 7-3. 26dB Bandwidth Plot MIMO ANT1 (20MHz 802.11ax/be (UNII Band 1) – Ch. 40)

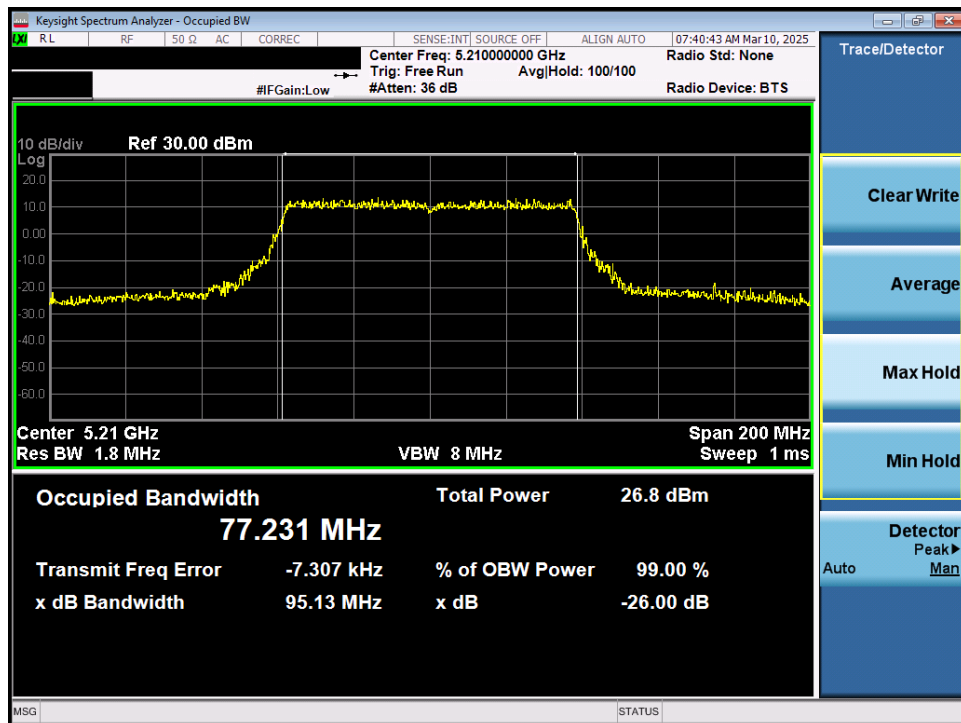


Plot 7-4. 26dB Bandwidth Plot MIMO ANT1 (40MHz 802.11n (UNII Band 1) – Ch. 38)

FCC ID: A3LSMF966JPN	MEASUREMENT REPORT		Approved by: Technical Manager
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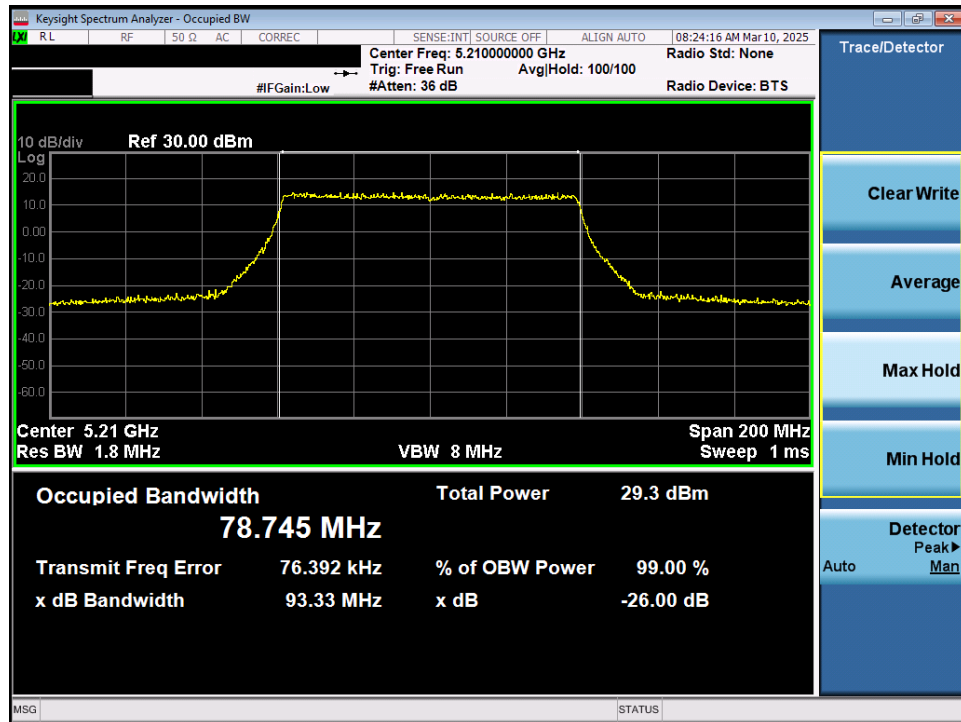


Plot 7-5. 26dB Bandwidth Plot MIMO ANT1 (40MHz 802.11ax/be (UNII Band 1) – Ch. 38)

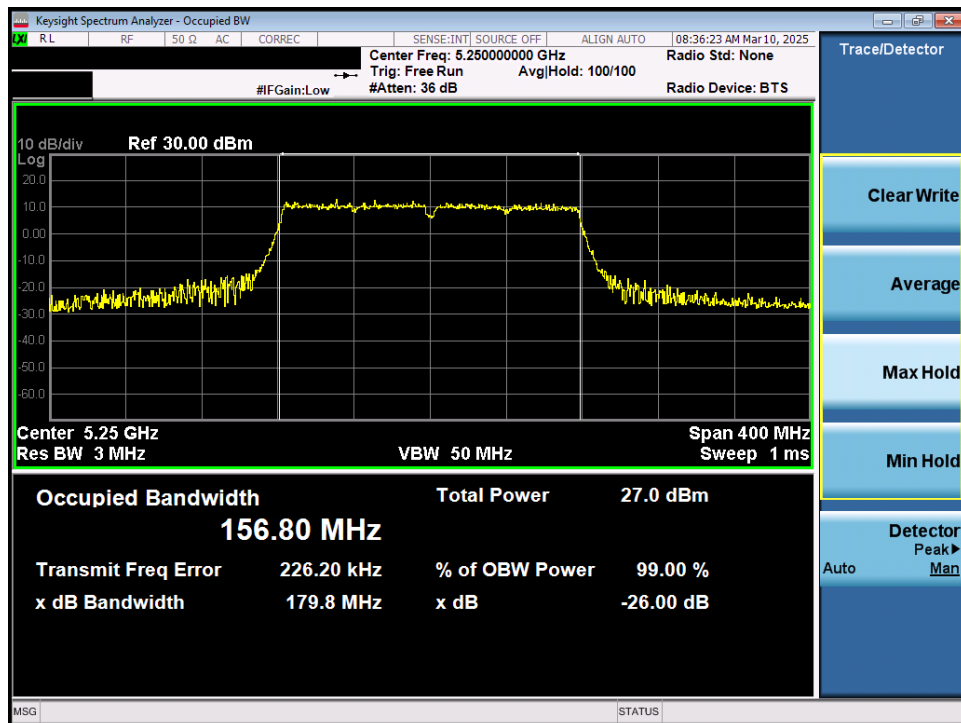


Plot 7-6. 26dB Bandwidth Plot MIMO ANT1 (80MHz 802.11ac (UNII Band 1) – Ch. 42)

FCC ID: A3LSMF966JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2504070040-07.A3L	Test Dates: 02/24/2025 - 05/05/2025	EUT Type: Portable Handset	Page 22 of 159

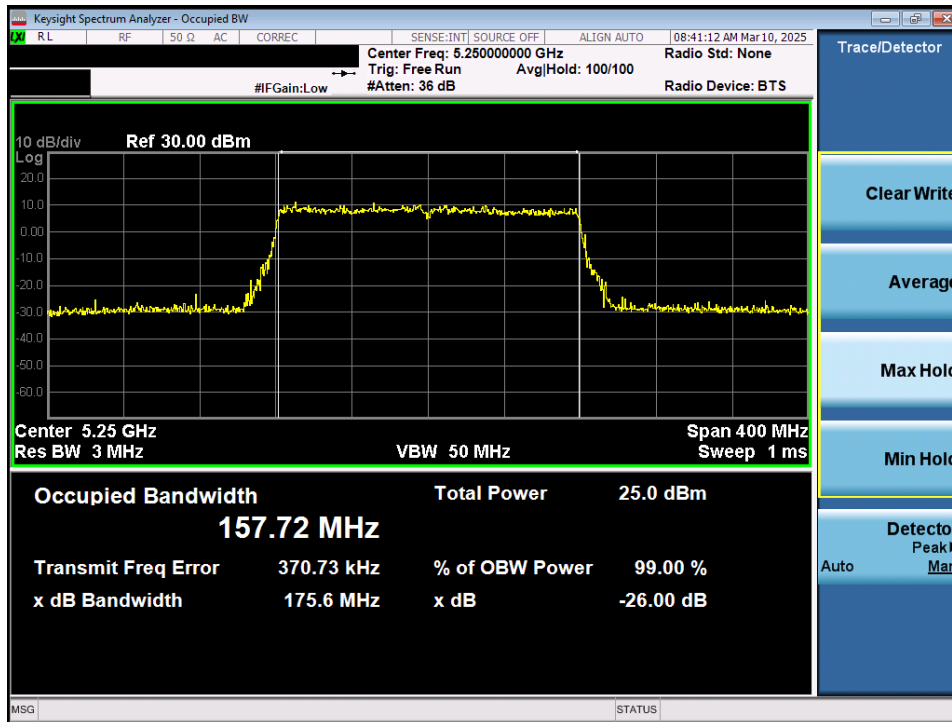


Plot 7-7. 26dB Bandwidth Plot MIMO ANT1 (80MHz 802.11ax/be (UNII Band 1) – Ch. 42)

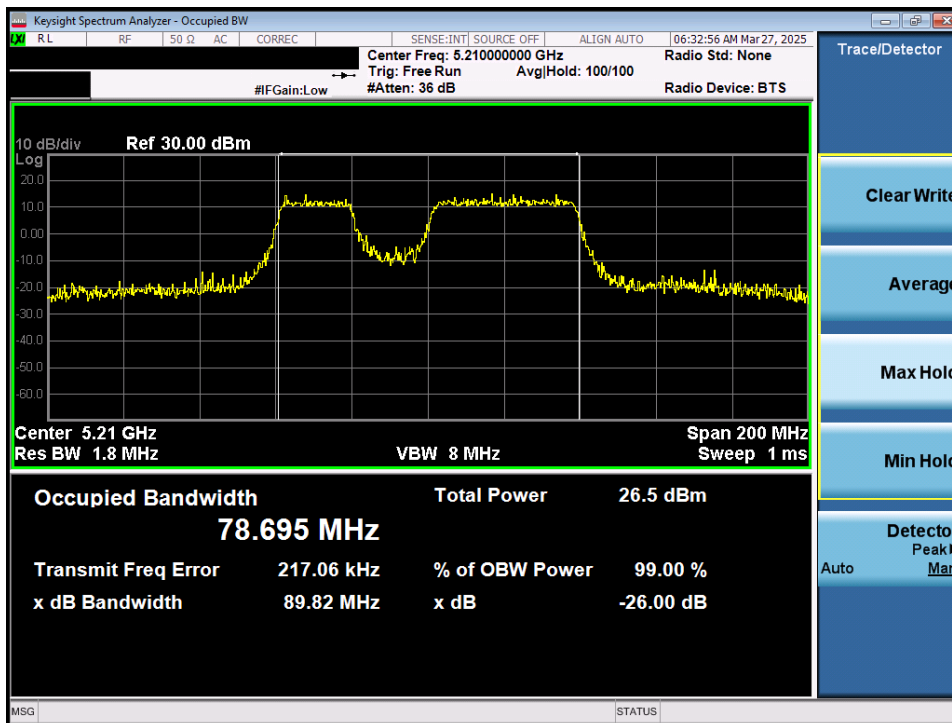


Plot 7-8. 26dB Bandwidth Plot MIMO ANT1 (160MHz 802.11ac (UNII Band 1/2A) – Ch. 50)

FCC ID: A3LSMF966JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2504070040-07.A3L	Test Dates: 02/24/2025 - 05/05/2025	EUT Type: Portable Handset	Page 23 of 159

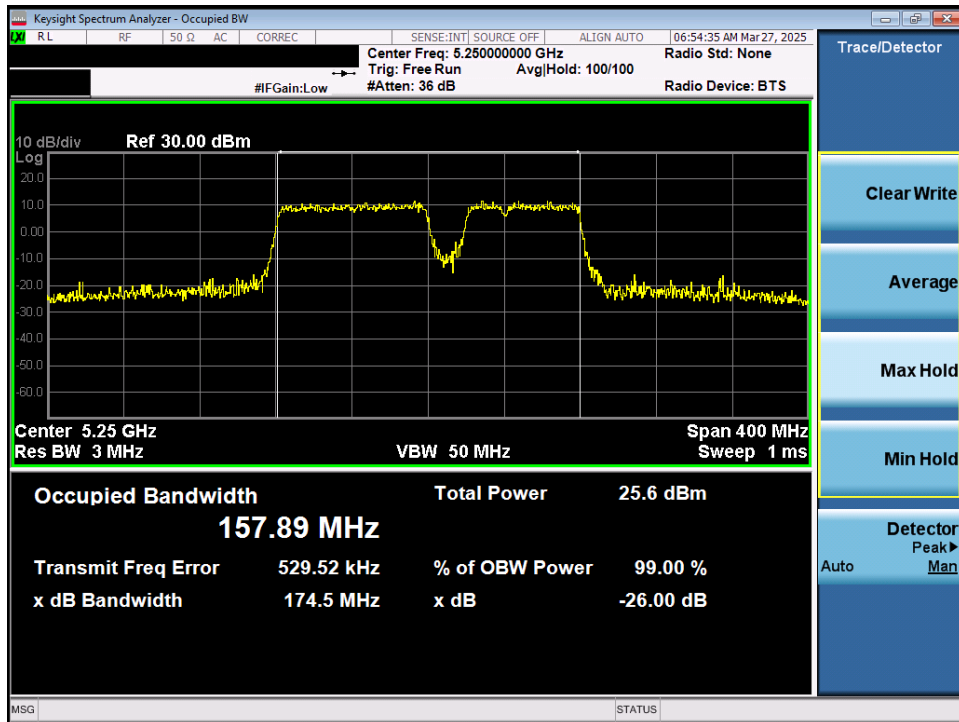


Plot 7-9. 26dB Bandwidth Plot MIMO ANT1 (160MHz 802.11ax/be (UNII Band 1/2A) – Ch. 50)

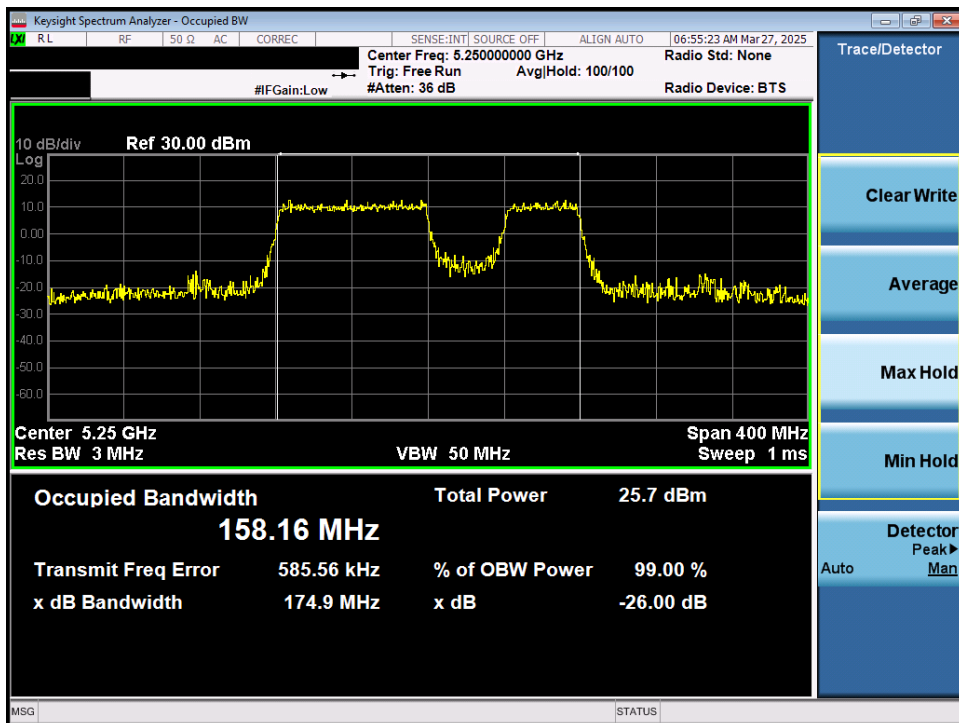


Plot 7-10. 26dB Bandwidth Plot MIMO ANT1 (80MHz 802.11be (20MHz Puncture Tones) (UNII Band 1) – Ch. 42)

FCC ID: A3LSMF966JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2504070040-07.A3L	Test Dates: 02/24/2025 - 05/05/2025	EUT Type: Portable Handset	Page 24 of 159



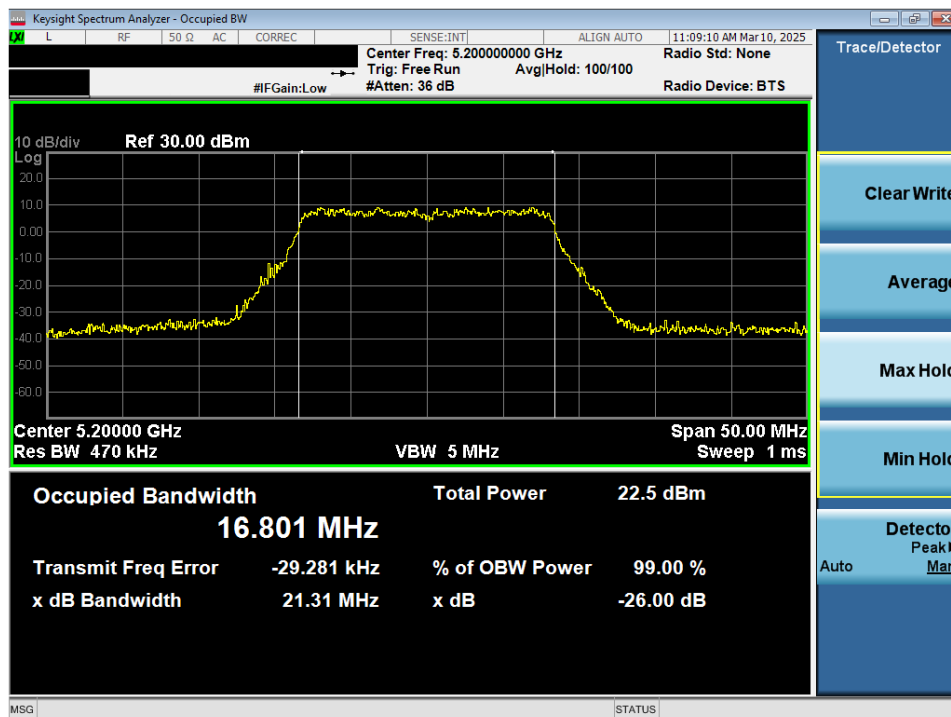
Plot 7-11. 26dB Bandwidth Plot MIMO ANT1 (160MHz 802.11be (20MHz Puncture) (UNII Band 1/2A) – Ch. 50)



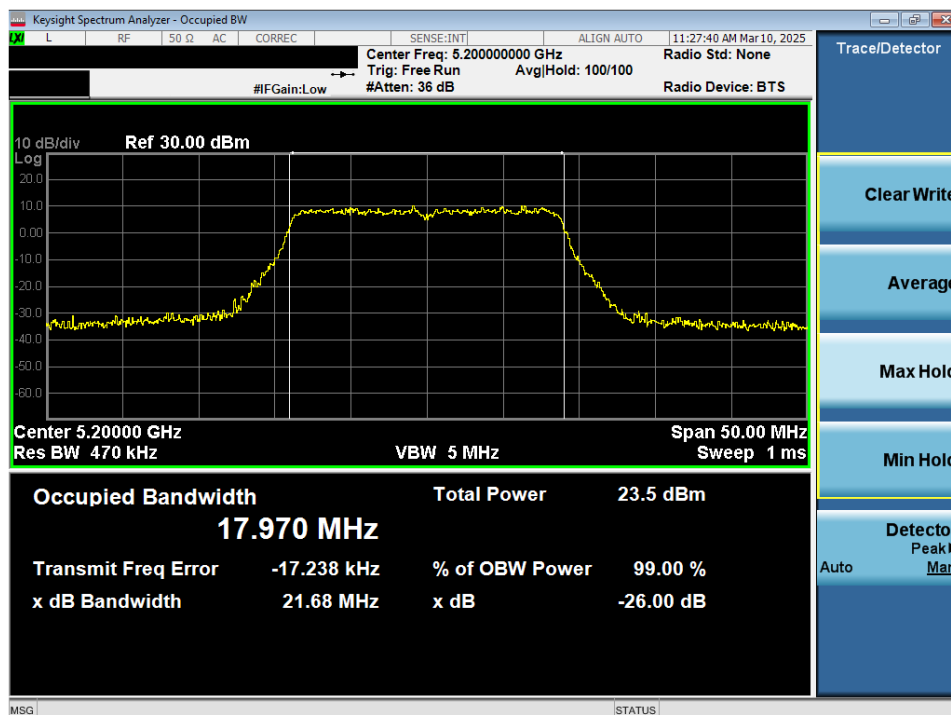
Plot 7-12. 26dB Bandwidth Plot MIMO ANT1 (160MHz 802.11be (40MHz Puncture) (UNII Band 1/2A) – Ch. 50)

FCC ID: A3LSMF966JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2504070040-07.A3L	Test Dates: 02/24/2025 - 05/05/2025	EUT Type: Portable Handset	Page 25 of 159

7.2.2 MIMO Antenna-2 26dB Bandwidth Measurements

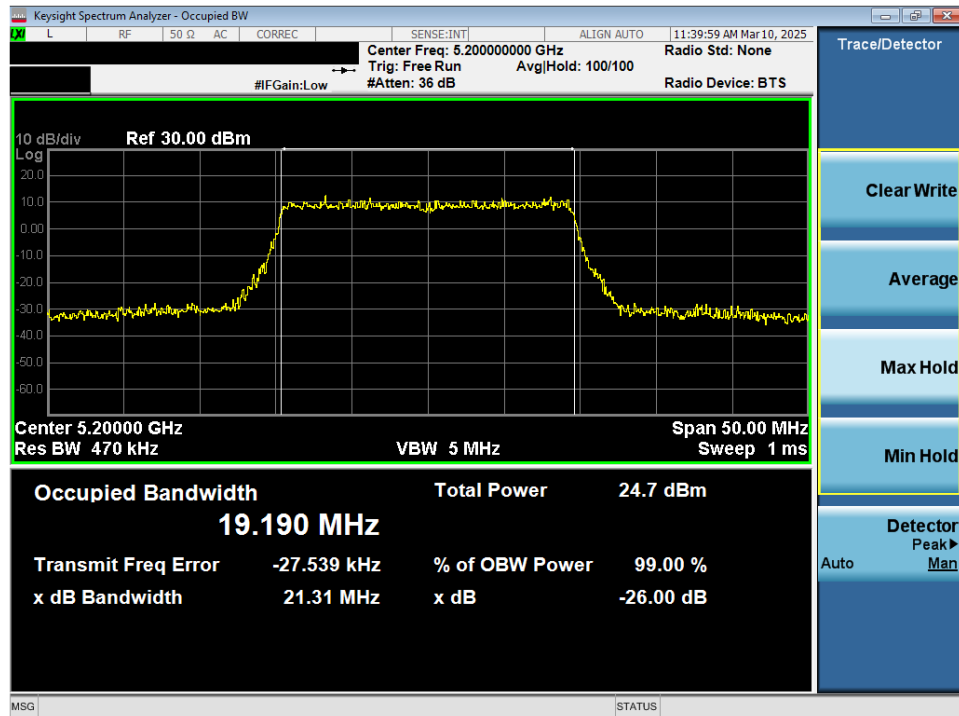


Plot 7-13. 26dB Bandwidth Plot MIMO ANT2 (20MHz 802.11a (UNII Band 1) – Ch. 40)

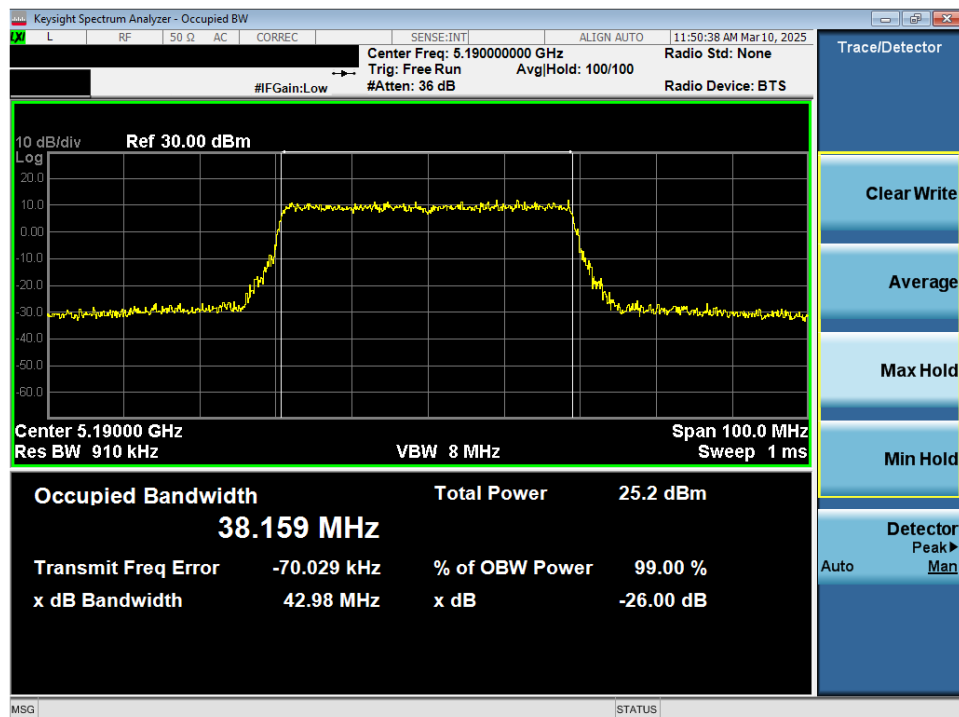


Plot 7-14. 26dB Bandwidth Plot MIMO ANT2 (20MHz 802.11n (UNII Band 1) – Ch. 40)

FCC ID: A3LSMF966JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2504070040-07.A3L	Test Dates: 02/24/2025 - 05/05/2025	EUT Type: Portable Handset	Page 26 of 159

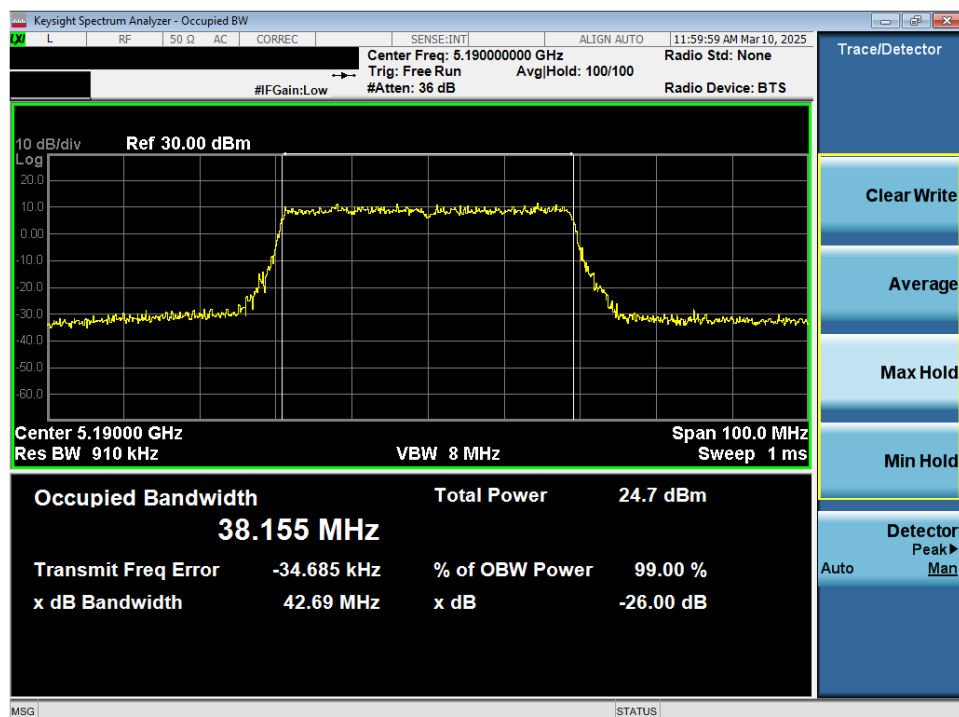


Plot 7-15. 26dB Bandwidth Plot MIMO ANT2 (20MHz 802.11ax/be (UNII Band 1) – Ch. 40)

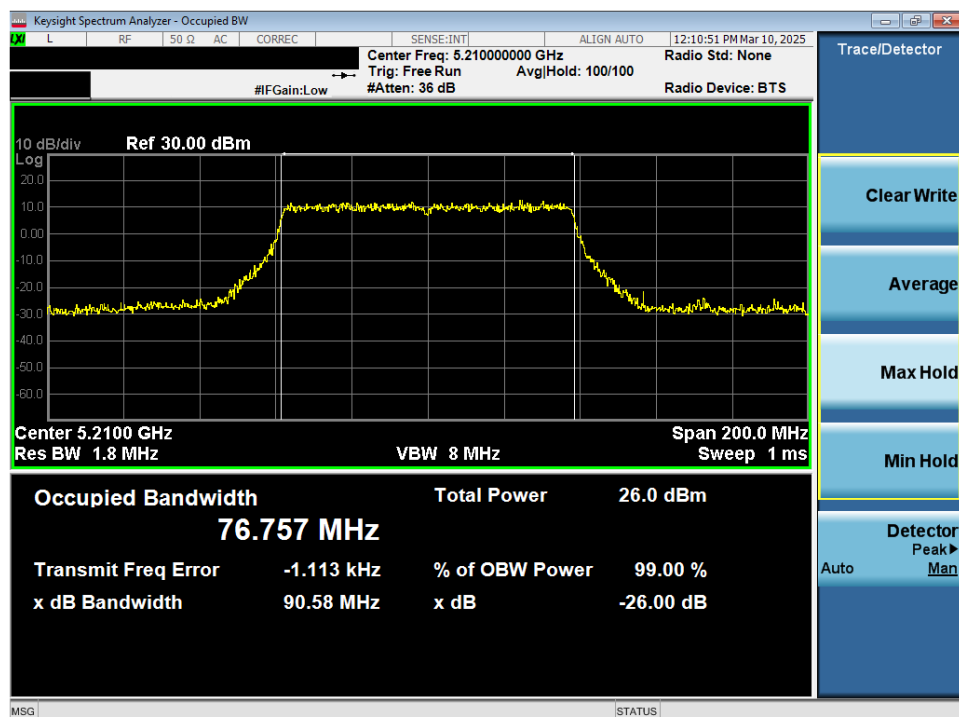


Plot 7-16. 26dB Bandwidth Plot MIMO ANT2 (40MHz 802.11n (UNII Band 1) – Ch. 38)

FCC ID: A3LSMF966JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2504070040-07.A3L	Test Dates: 02/24/2025 - 05/05/2025	EUT Type: Portable Handset	Page 27 of 159

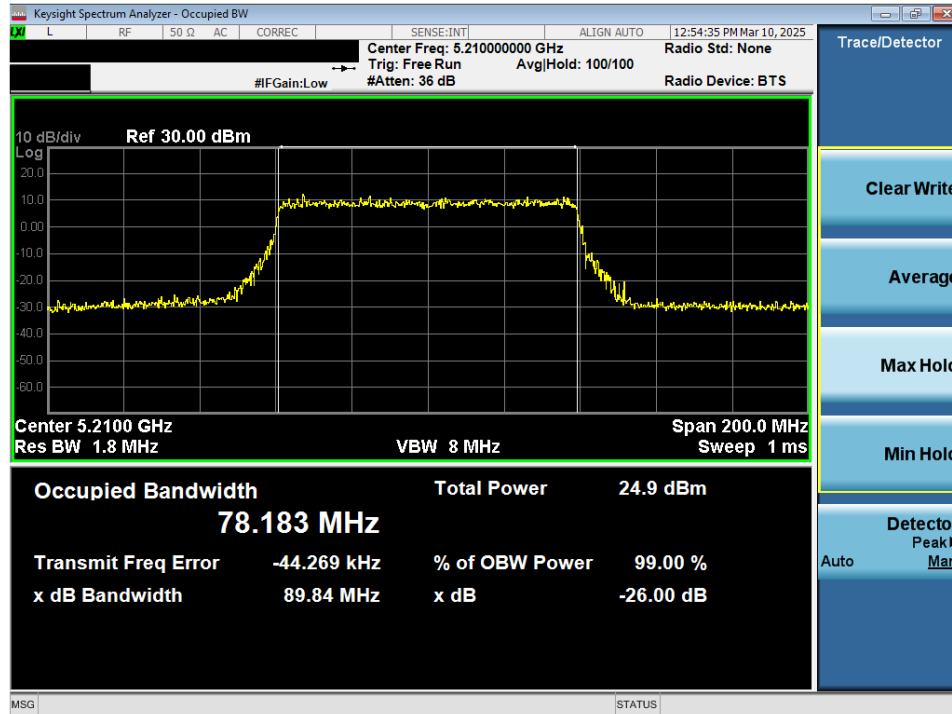


Plot 7-17. 26dB Bandwidth Plot MIMO ANT2 (40MHz 802.11ax/be (UNII Band 1) – Ch. 38)

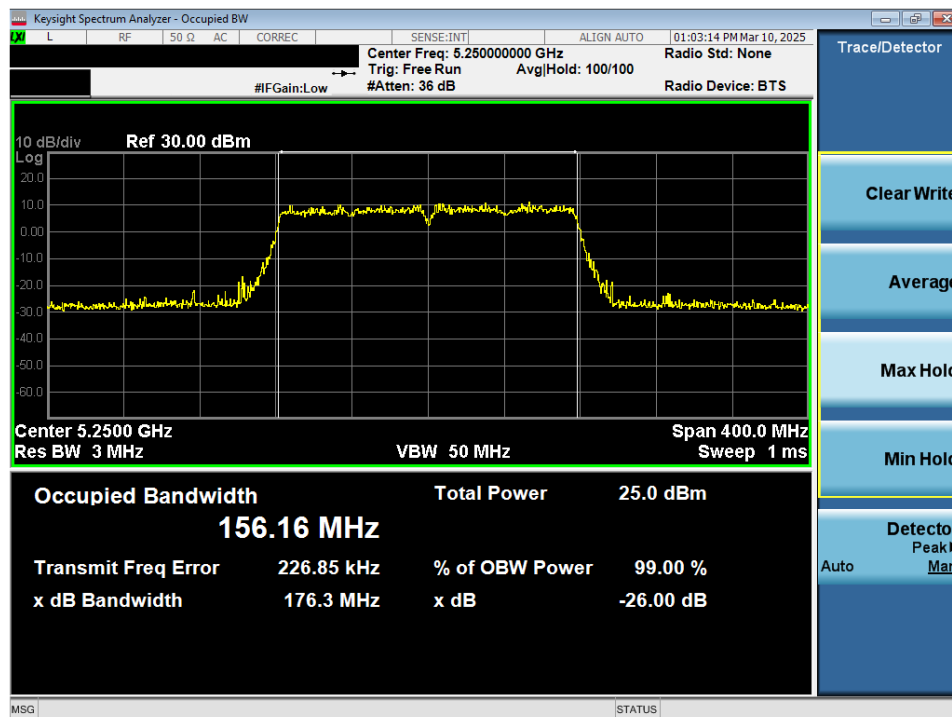


Plot 7-18. 26dB Bandwidth Plot MIMO ANT2 (80MHz 802.11ac (UNII Band 1) – Ch. 42)

FCC ID: A3LSMF966JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2504070040-07.A3L	Test Dates: 02/24/2025 - 05/05/2025	EUT Type: Portable Handset	Page 28 of 159

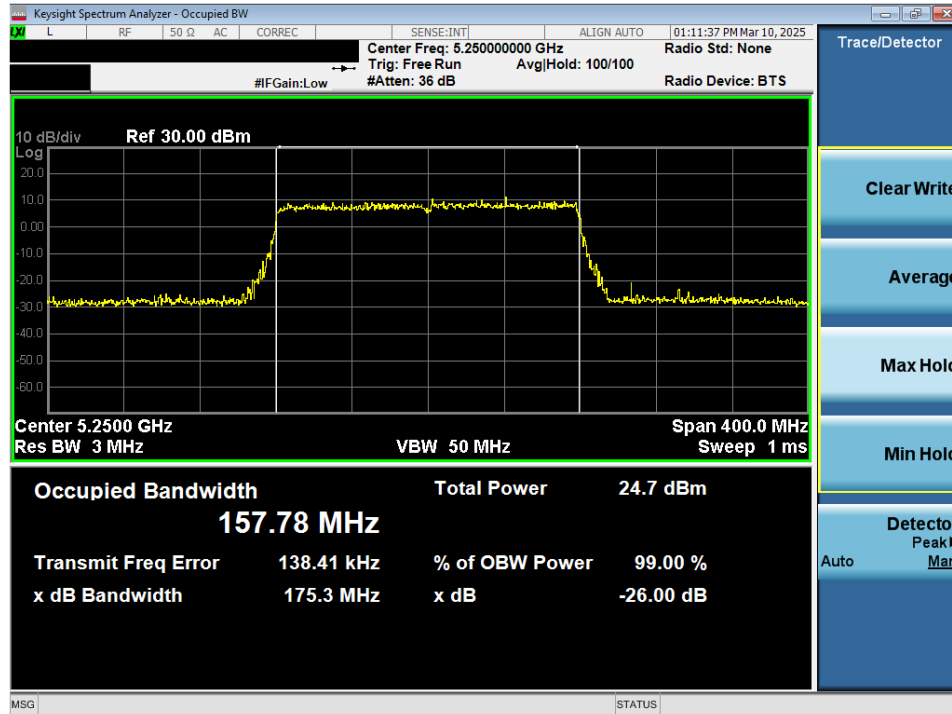


Plot 7-19. 26dB Bandwidth Plot MIMO ANT2 (80MHz 802.11ax/be (UNII Band 1) – Ch. 42)

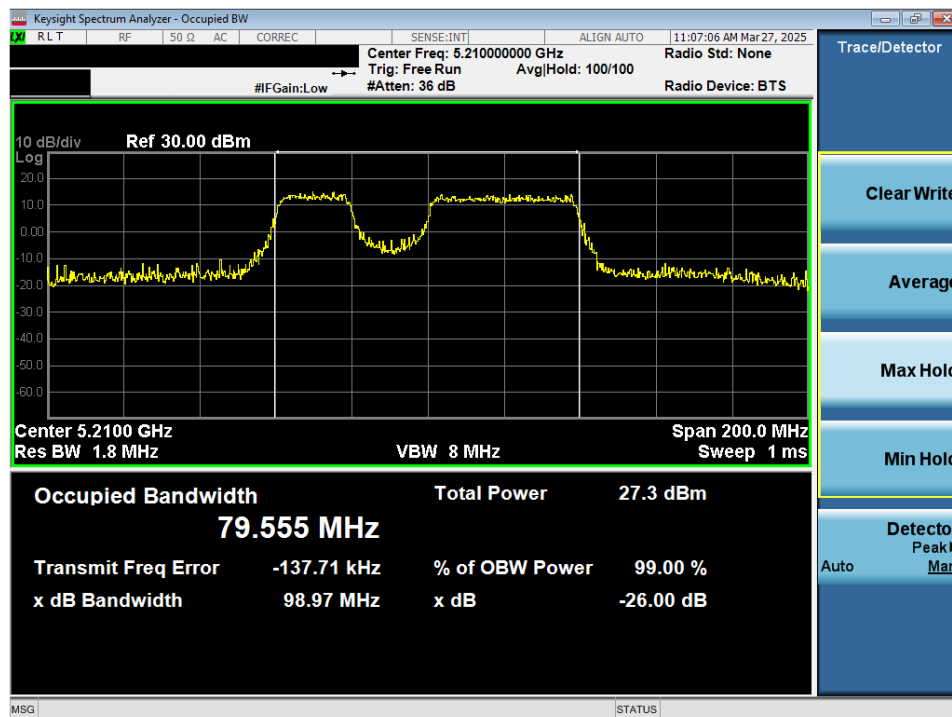


Plot 7-20. 26dB Bandwidth Plot MIMO ANT2 (160MHz 802.11ac (UNII Band 1/2A) – Ch. 50)

FCC ID: A3LSMF966JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2504070040-07.A3L	Test Dates: 02/24/2025 - 05/05/2025	EUT Type: Portable Handset	Page 29 of 159

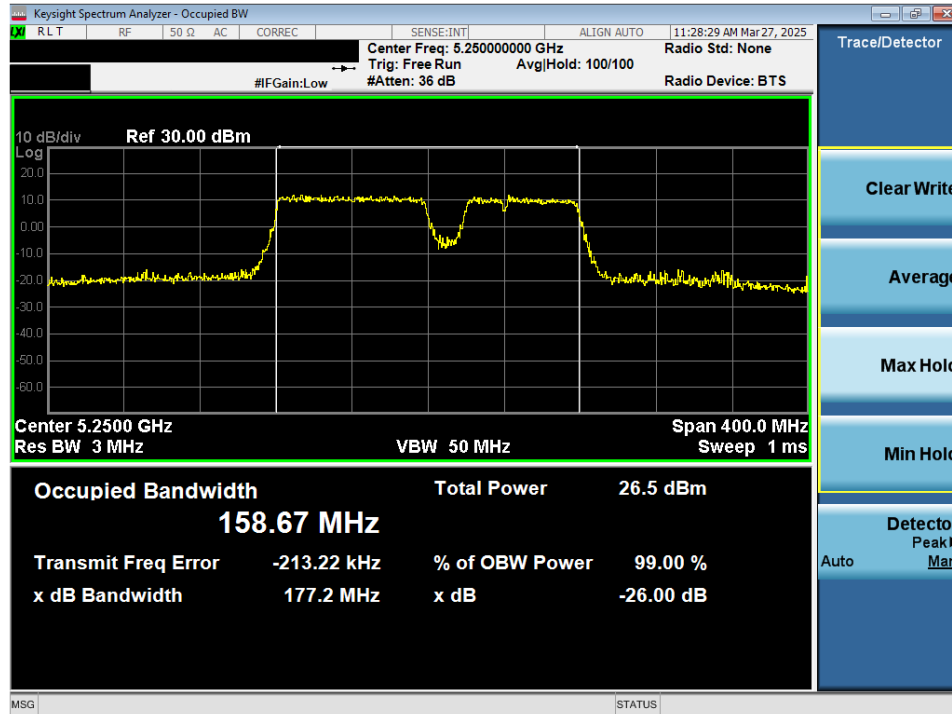


Plot 7-21. 26dB Bandwidth Plot MIMO ANT2 (160MHz 802.11ax/be (UNII Band 1/2A) – Ch. 50)

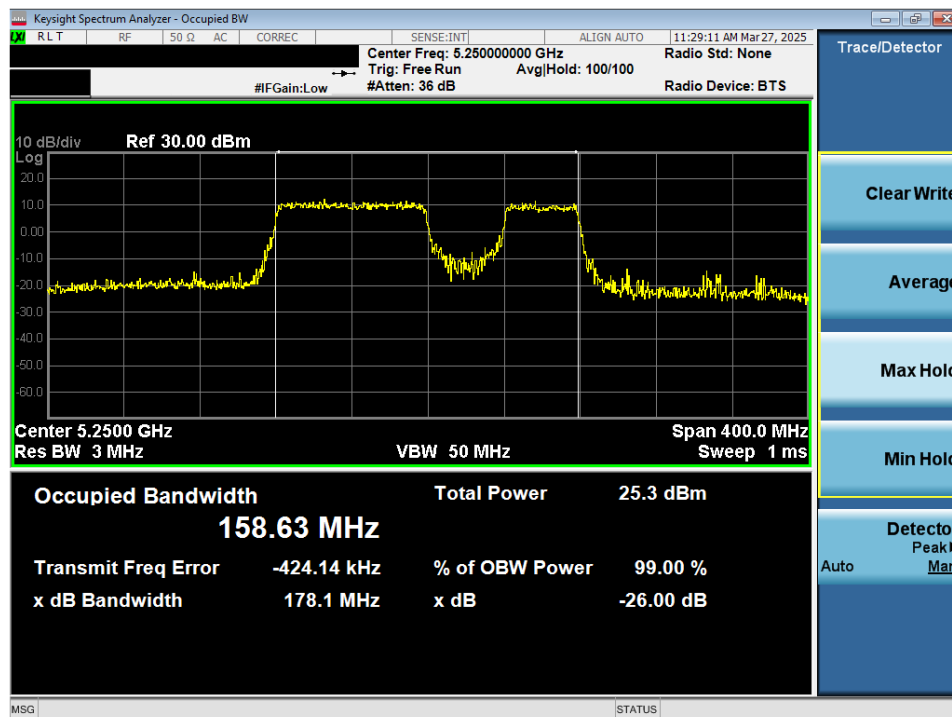


Plot 7-22. 26dB Bandwidth Plot MIMO ANT2 (80MHz 802.11be (20MHz Puncture Tones) (UNII Band 1) – Ch. 42)

FCC ID: A3LSMF966JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2504070040-07.A3L	Test Dates: 02/24/2025 - 05/05/2025	EUT Type: Portable Handset	Page 30 of 159



Plot 7-23. 26dB Bandwidth Plot MIMO ANT2 (160MHz 802.11be (20MHz Puncture) (UNII Band 1/2A) – Ch. 50)



Plot 7-24. 26dB Bandwidth Plot MIMO ANT2 (160MHz 802.11be (40MHz Puncture) (UNII Band 1/2A) – Ch. 50)

FCC ID: A3LSMF966JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2504070040-07.A3L	Test Dates: 02/24/2025 - 05/05/2025	EUT Type: Portable Handset	Page 31 of 159

7.3 6dB Bandwidth Measurement

Test Overview and Limit

The bandwidth at 6dB 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 C63.10-2020, and at the appropriate frequencies. The spectrum analyzer's bandwidth measurement function is configured to measure the 6dB bandwidth.

In the 5.725 – 5.850GHz band and 5.850 – 5.895GHz band, the 6dB bandwidth must be ≥ 500 kHz.

Test Procedure Used

ANSI C63.10-2020 – Section 6.9.2

Test Settings

1. The signal analyzers' automatic bandwidth measurement capability was used to perform the 6dB bandwidth measurement. The "X" dB bandwidth parameter was set to $X = 6$. 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 = 100 kHz
3. VBW $\geq 3 \times$ RBW
4. Detector = Peak
5. Trace mode = max hold
6. Sweep = auto couple

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.

FCC ID: A3LSMF966JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2504070040-07.A3L	Test Dates: 02/24/2025 - 05/05/2025	EUT Type: Portable Handset	Page 32 of 159

MIMO 6dB Bandwidth Measurements

	Frequency [MHz]	Channel	802.11 MODE	Antenna-1 6dB Bandwidth [MHz]	Antenna-2 6dB Bandwidth [MHz]	Antenna-1 OBW [MHz]	Antenna-2 OBW [MHz]
Band 3	5745	149	a	16.41	16.40	16.46	16.49
	5785	157	a	16.38	16.42	16.46	16.51
	5825	165	a	16.36	16.37	16.46	16.49
	5745	149	n	17.63	17.62	17.65	17.71
	5785	157	n	17.61	17.60	17.68	17.71
	5825	165	n	17.64	17.62	17.67	17.71
	5745	149	be SU	18.96	19.02	19.01	19.01
	5785	157	be SU	18.96	19.08	18.99	19.00
	5825	165	be SU	19.06	18.81	19.01	19.00
	5755	151	n	36.41	36.38	36.23	36.22
	5795	159	n	36.44	36.33	36.23	36.15
	5755	151	be SU	38.08	37.92	37.86	37.86
	5795	159	be SU	38.01	37.94	37.84	37.93
	5775	155	ac	76.52	76.55	75.84	75.95
	5775	155	be SU	78.17	78.18	77.56	77.60

Table 7-4. Band 3 Conducted 6dB Bandwidth Measurements MIMO

	Frequency [MHz]	Channel	802.11 MODE	Antenna-1 6dB Bandwidth [MHz]	Antenna-2 6dB Bandwidth [MHz]	Antenna-1 OBW [MHz]	Antenna-2 OBW [MHz]
Band 3/4	5845	169	a	16.37	16.43	16.49	16.51
Band 4	5865	173	a	16.40	16.39	16.49	16.49
	5885	177	a	16.37	16.42	16.46	16.50
Band 3/4	5845	169	n	17.64	17.62	17.68	17.70
Band 4	5865	173	n	17.60	17.65	17.69	17.69
	5885	177	n	17.62	17.62	17.67	17.71
Band 3/4	5845	169	be SU	19.01	18.62	19.00	19.00
Band 4	5865	173	be SU	19.02	18.92	19.00	19.00
	5885	177	be SU	18.95	19.01	18.99	19.00
Band 3/4	5835	167	n	36.45	36.41	36.22	36.16
Band 4	5875	175	n	36.45	36.36	36.22	36.15
Band 3/4	5835	167	be SU	38.13	38.21	37.89	37.94
Band 4	5875	175	be SU	37.98	37.97	37.82	37.88
Band 3/4	5855	171	ac	76.47	76.48	75.82	75.83
	5855	171	be SU	78.16	78.18	77.56	77.56
	5815	163	ac	156.24	156.25	155.05	155.30
	5815	163	be SU	158.26	158.00	156.82	156.83

Table 7-5. Bands 3/4 Conducted 6dB Bandwidth Measurements MIMO

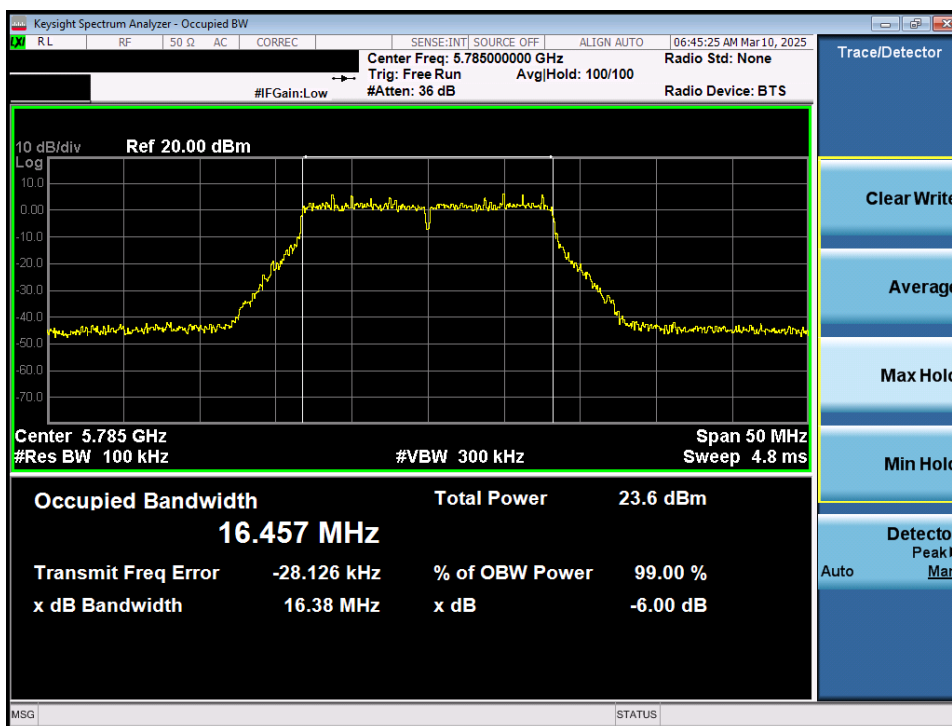
FCC ID: A3LSMF966JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2504070040-07.A3L	Test Dates: 02/24/2025 - 05/05/2025	EUT Type: Portable Handset	Page 33 of 159

	Frequency [MHz]	Channel	802.11 MODE	Puncture Size [MHz]	Antenna-1 6dB Bandwidth [MHz]	Antenna-2 6dB Bandwidth [MHz]	Antenna-1 OBW [MHz]	Antenna-2 OBW [MHz]
Band 3	5775	155	be	20	78.14	78.16	77.73	77.70
Band 3/4	5855	171	be	20	78.14	78.23	77.69	77.77
	5815	163	be	20	158.10	158.44	156.99	157.00
	5815	163	be	40	158.22	158.55	157.17	157.42

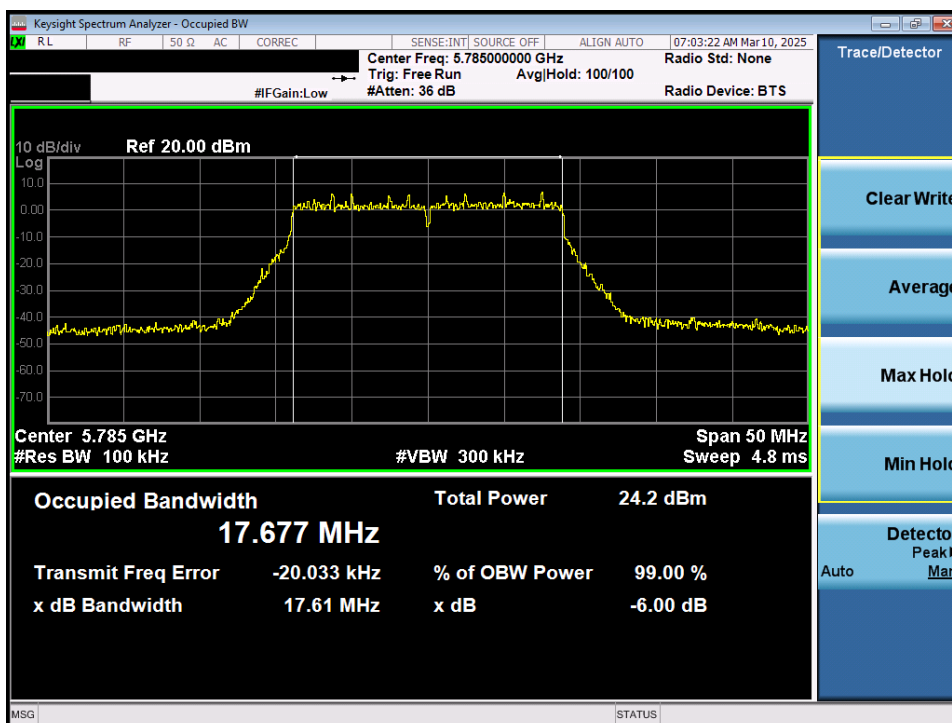
Table 7-6. Band 3/4 Conducted 6dB Bandwidth Measurements MIMO

FCC ID: A3LSMF966JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2504070040-07.A3L	Test Dates: 02/24/2025 - 05/05/2025	EUT Type: Portable Handset	Page 34 of 159

7.3.1 MIMO Antenna-1 6dB Bandwidth Measurements

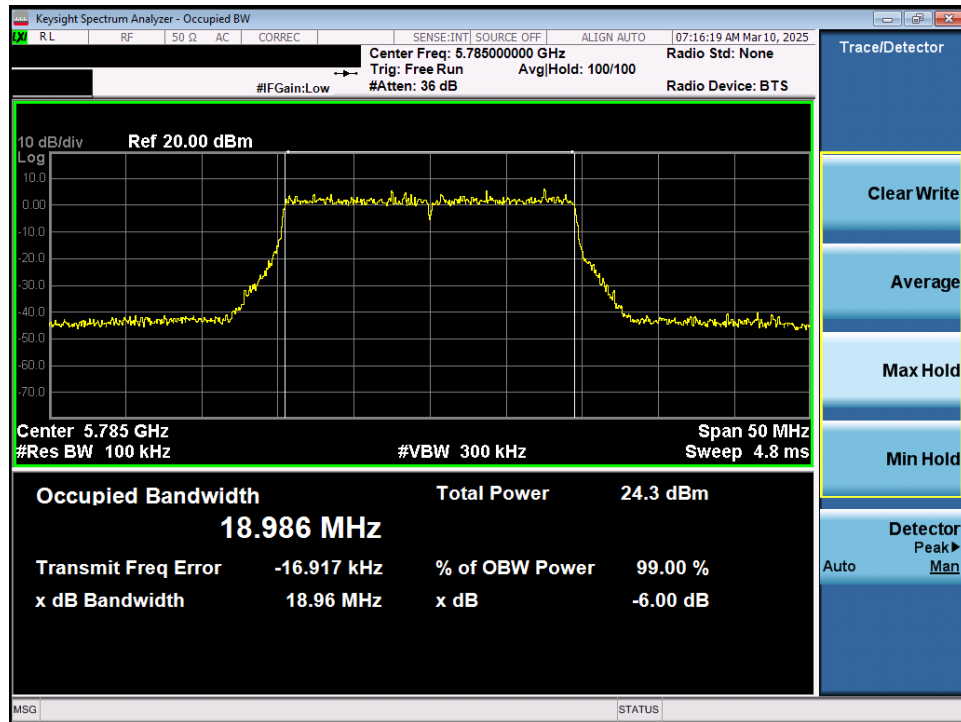


Plot 7-25. 6dB Bandwidth Plot MIMO ANT1 (20MHz 802.11a (UNII Band 3) – Ch.157)

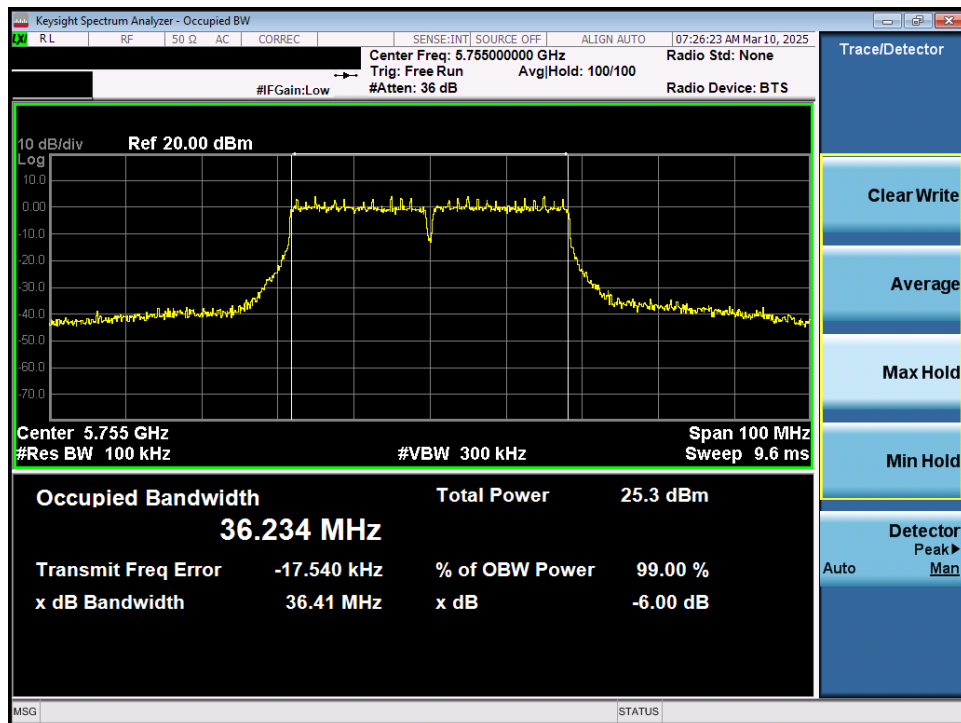


Plot 7-26. 6dB Bandwidth Plot MIMO ANT1 (20MHz 802.11n (UNII Band 3) – Ch.157)

FCC ID: A3LSMF966JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2504070040-07.A3L	Test Dates: 02/24/2025 - 05/05/2025	EUT Type: Portable Handset	Page 35 of 159

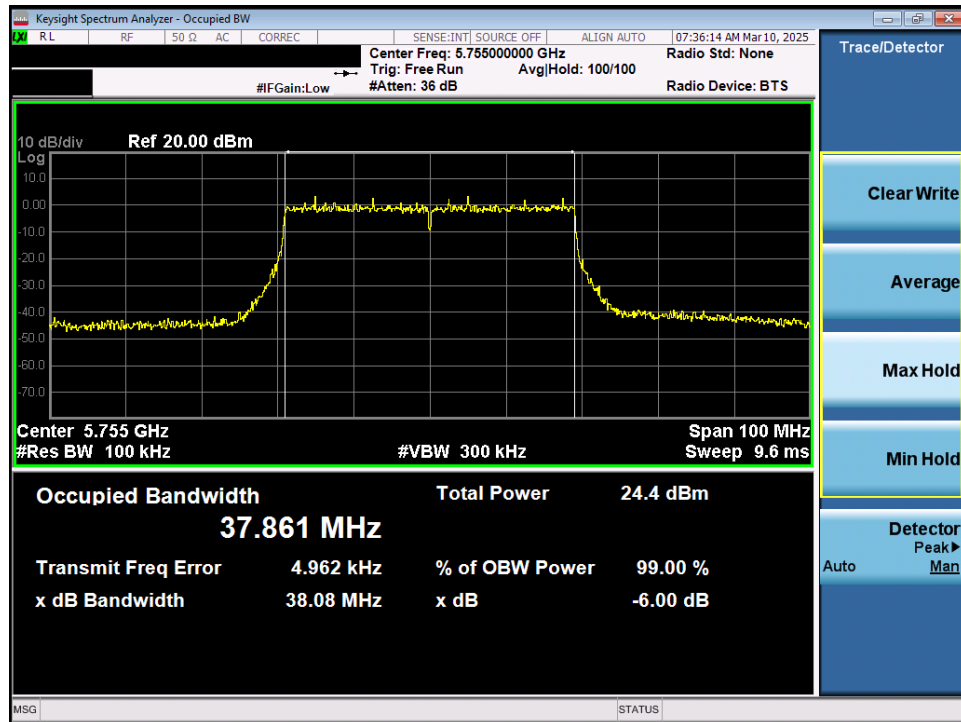


Plot 7-27. 6dB Bandwidth Plot MIMO ANT1 (20MHz 802.11ax/be (UNII Band 3) – Ch.157)

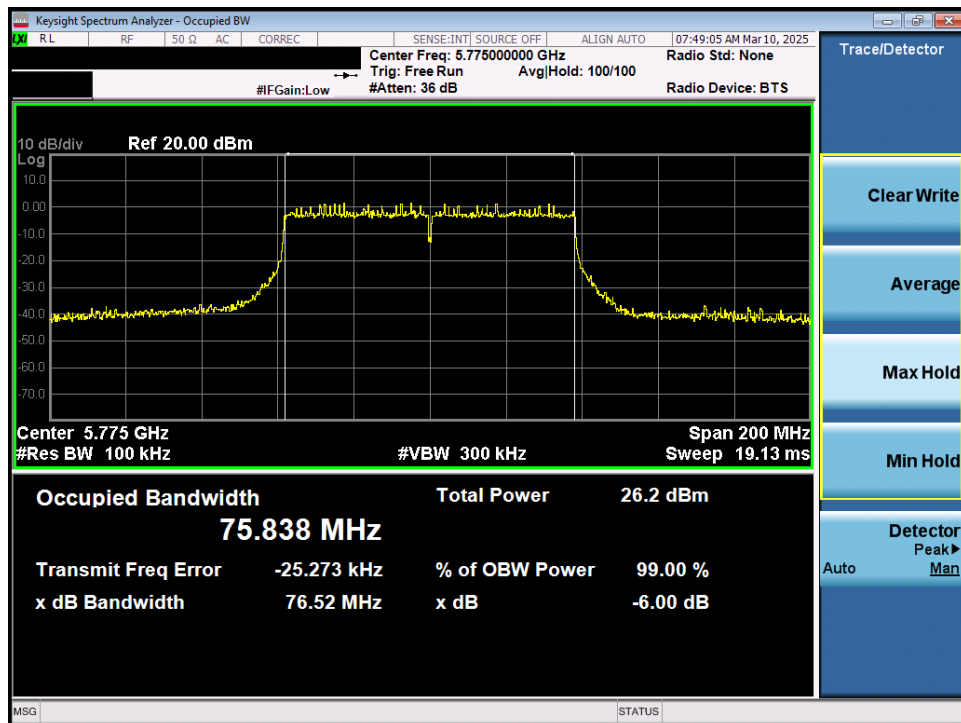


Plot 7-28. 6dB Bandwidth Plot MIMO ANT1 (40MHz 802.11n (UNII Band 3) – Ch. 151)

FCC ID: A3LSMF966JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2504070040-07.A3L	Test Dates: 02/24/2025 - 05/05/2025	EUT Type: Portable Handset	Page 36 of 159

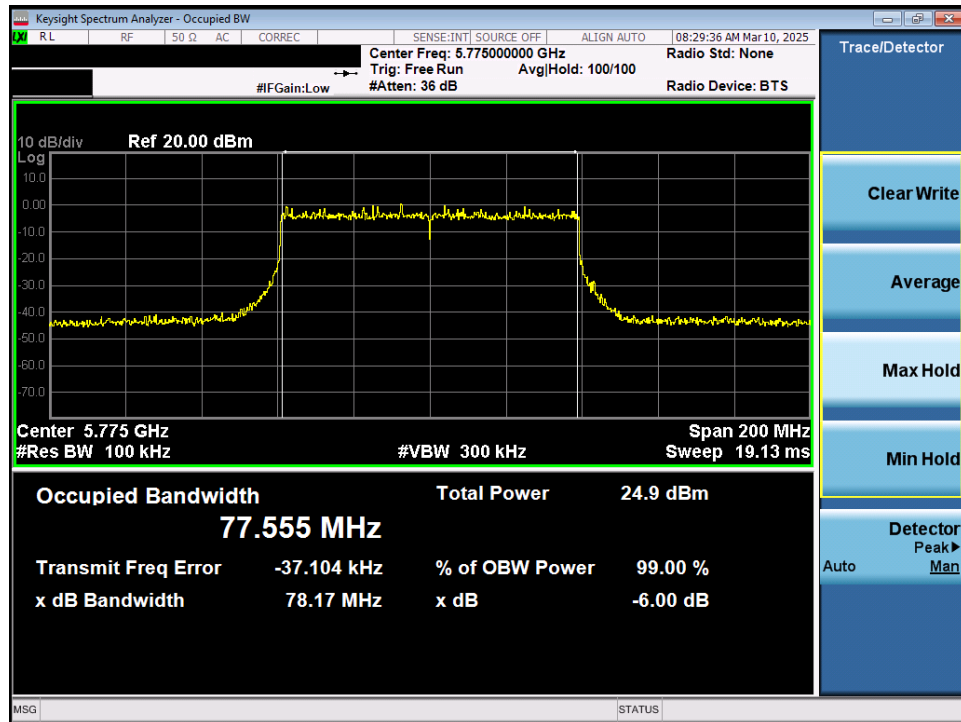


Plot 7-29. 6dB Bandwidth Plot MIMO ANT1 (40MHz 802.11ax/be (UNII Band 3) – Ch. 151)

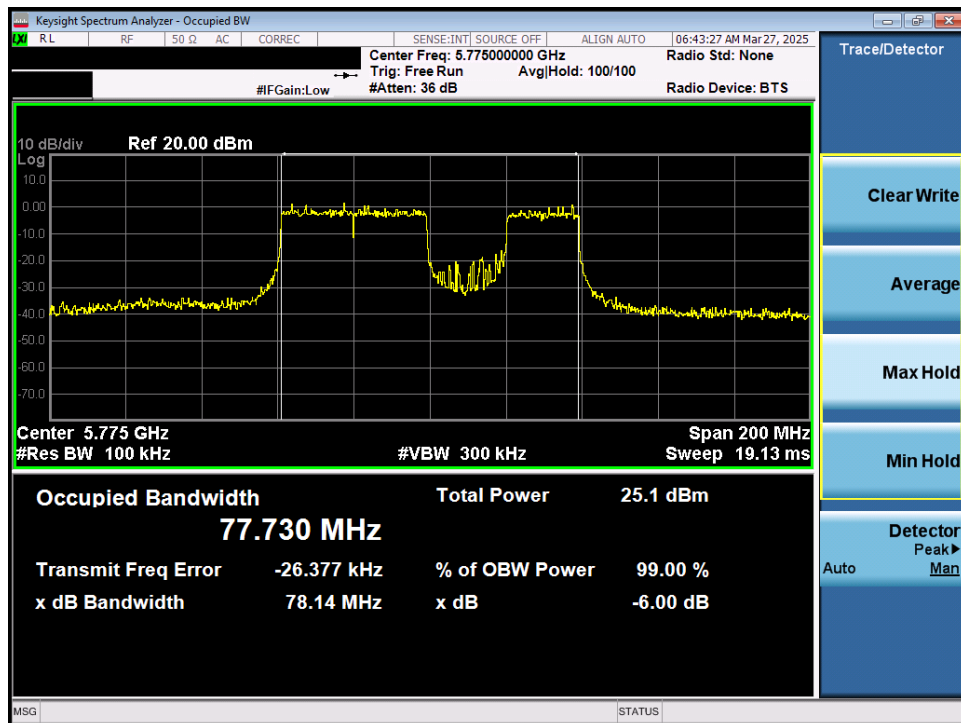


Plot 7-30. 6dB Bandwidth Plot MIMO ANT1 (80MHz 802.11ac (UNII Band 3) – Ch. 155)

FCC ID: A3LSMF966JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2504070040-07.A3L	Test Dates: 02/24/2025 - 05/05/2025	EUT Type: Portable Handset	Page 37 of 159

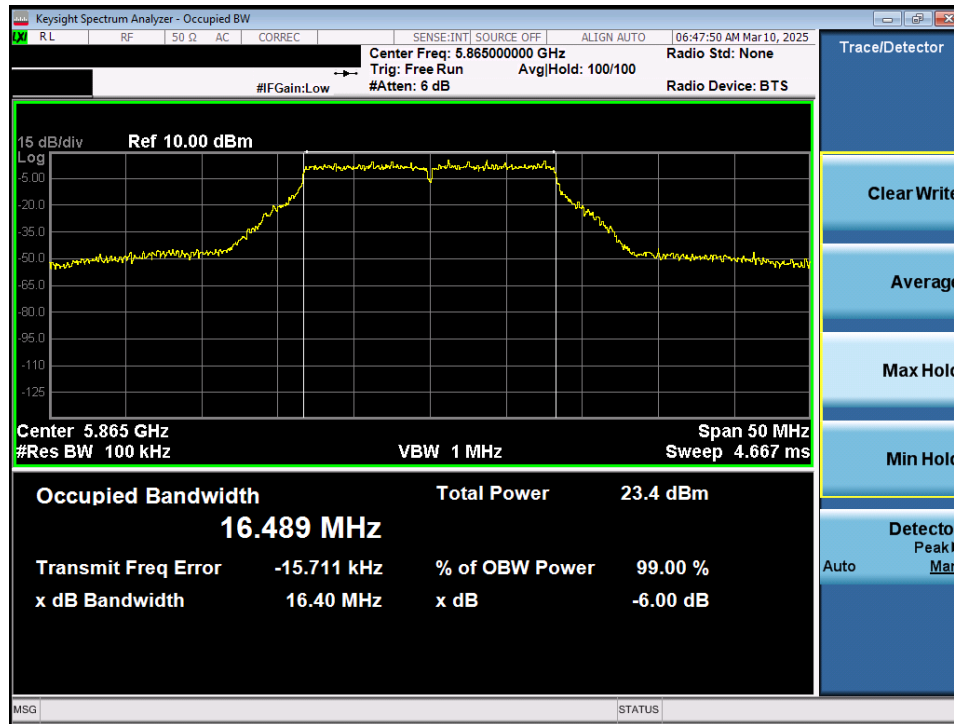


Plot 7-31. 6dB Bandwidth Plot MIMO ANT1 (80MHz 802.11ax/be (UNII Band 3) – Ch. 155)

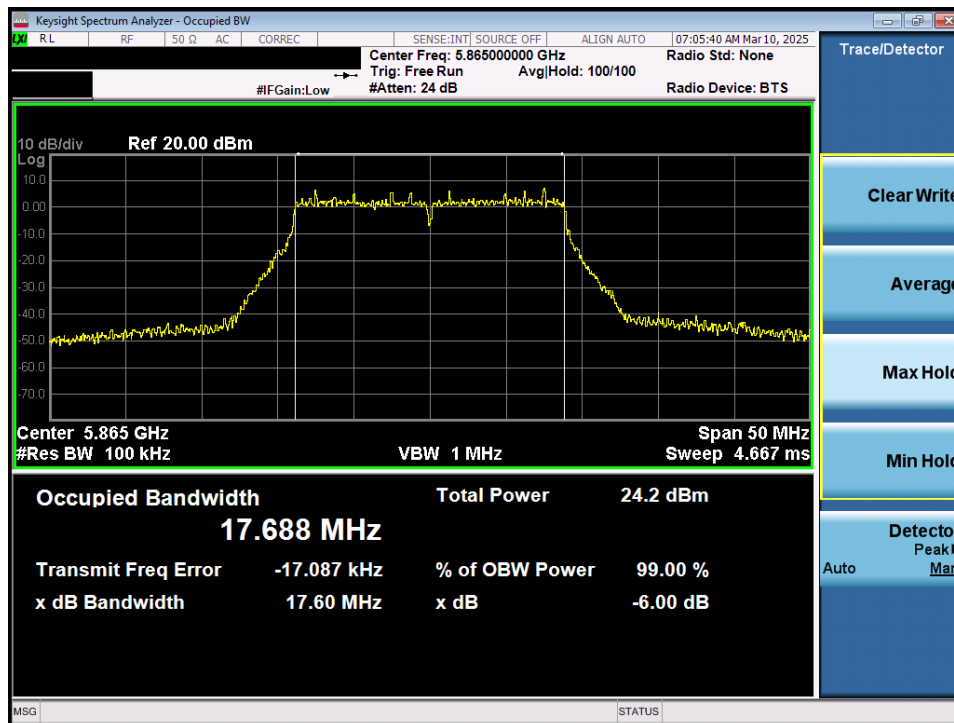


Plot 7-32. 6dB Bandwidth Plot MIMO ANT1 (80MHz 802.11be (20MHz Puncture) (UNII Band 3) – Ch. 155)

FCC ID: A3LSMF966JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2504070040-07.A3L	Test Dates: 02/24/2025 - 05/05/2025	EUT Type: Portable Handset	Page 38 of 159

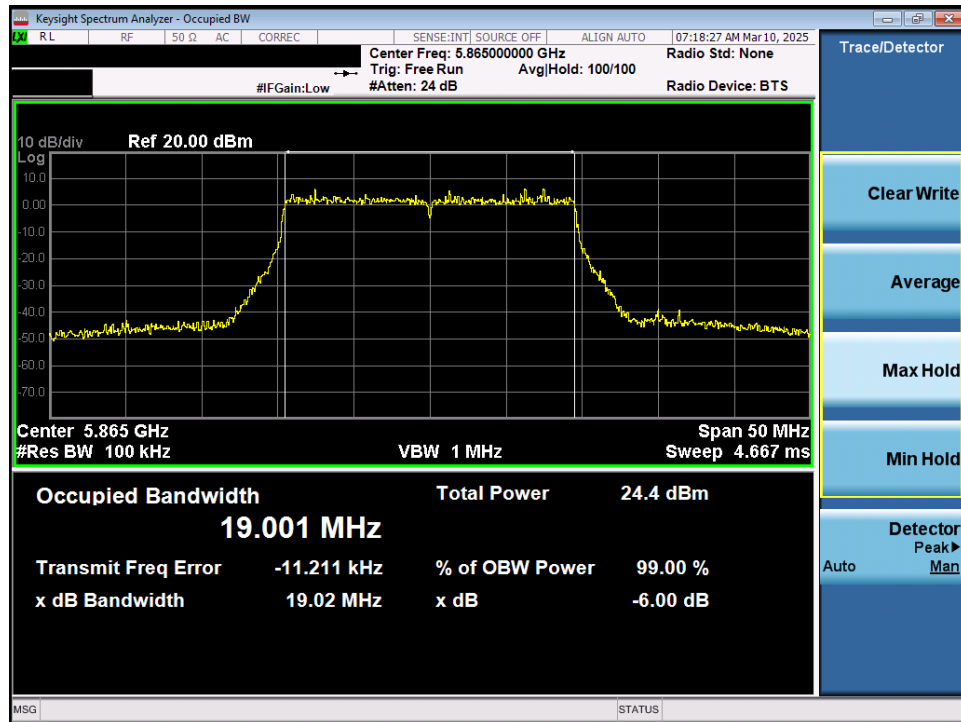


Plot 7-33. 6dB Bandwidth Plot MIMO ANT1 (20MHz 802.11a (UNII Band 4) – Ch.173)

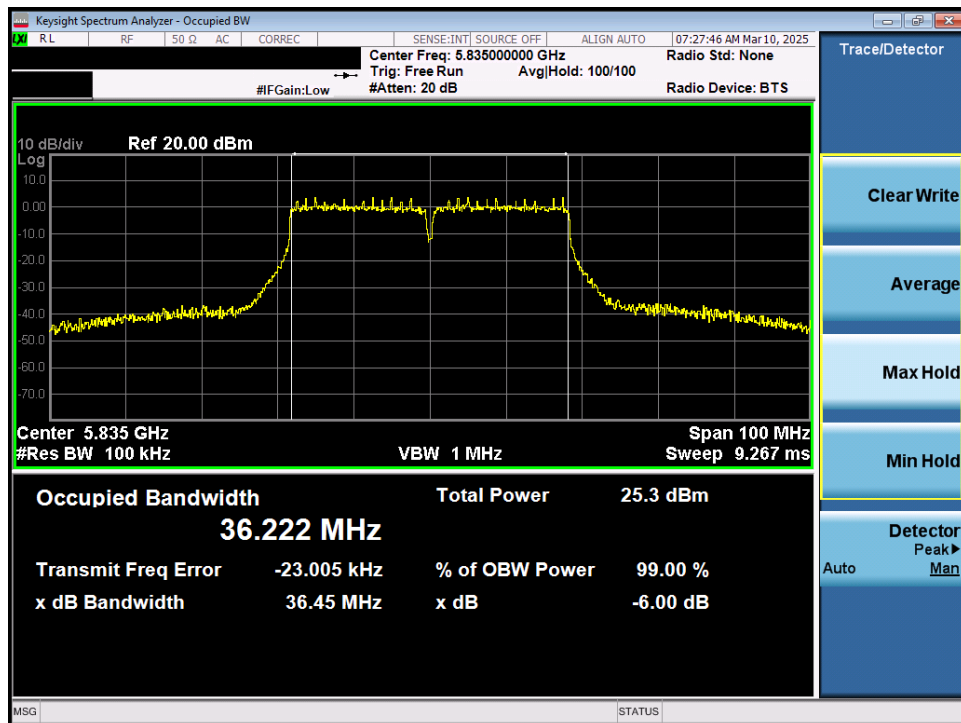


Plot 7-34. 6dB Bandwidth Plot MIMO ANT1 (20MHz 802.11n (UNII Band 4) – Ch.173)

FCC ID: A3LSMF966JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2504070040-07.A3L	Test Dates: 02/24/2025 - 05/05/2025	EUT Type: Portable Handset	Page 39 of 159

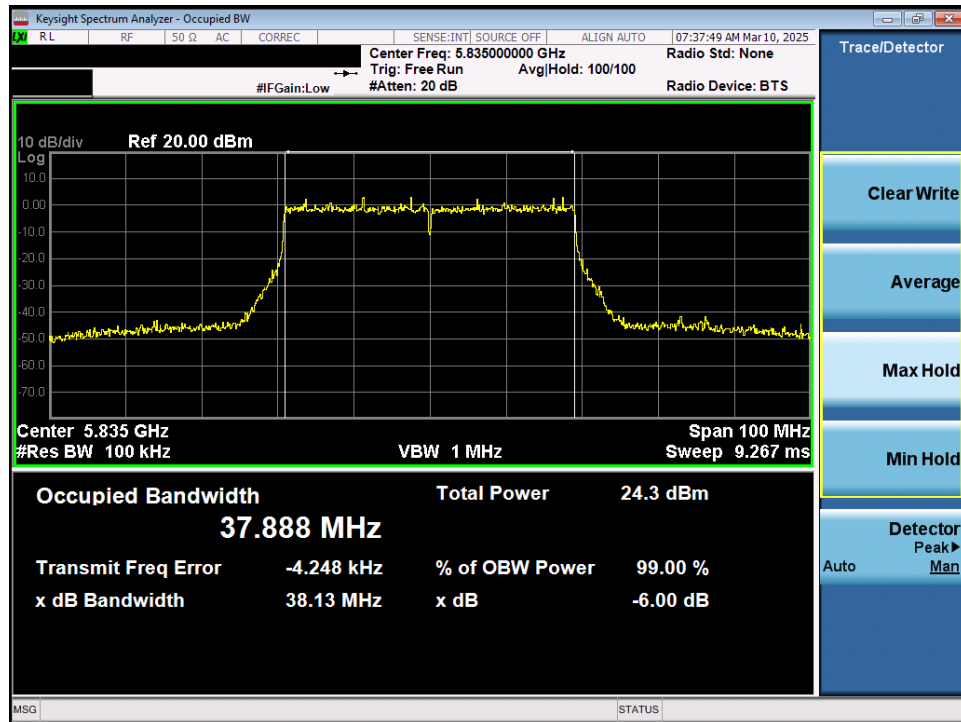


Plot 7-35. 6dB Bandwidth Plot MIMO ANT1 (20MHz 802.11ax/be (UNII Band 4) – Ch.173)

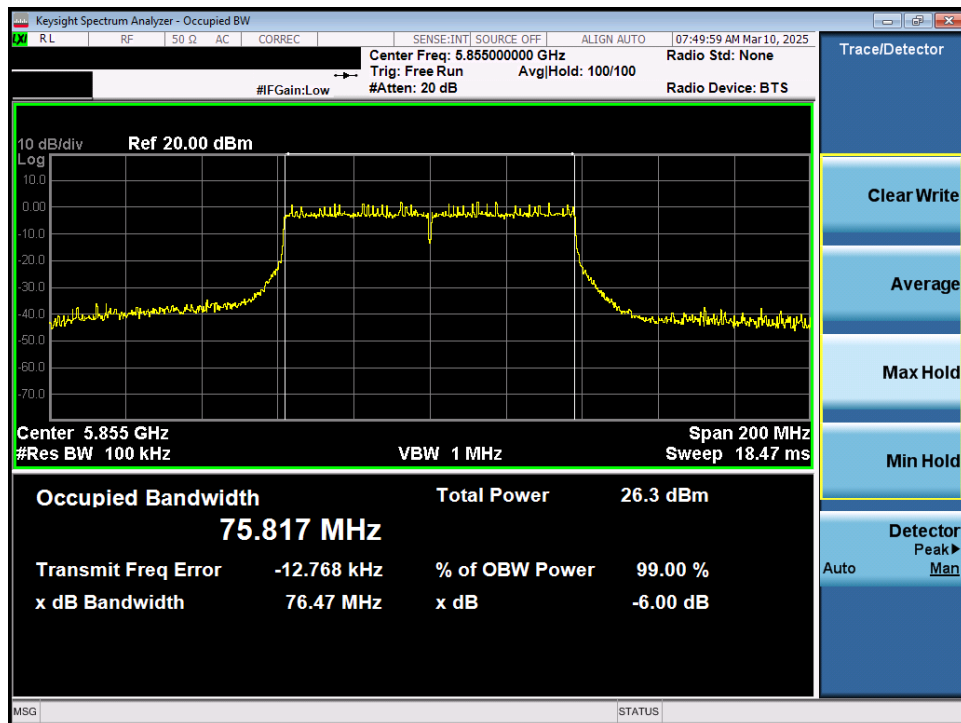


Plot 7-36. 6dB Bandwidth Plot MIMO ANT1 (40MHz 802.11n (UNII Band 3/4) – Ch. 167)

FCC ID: A3LSMF966JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2504070040-07.A3L	Test Dates: 02/24/2025 - 05/05/2025	EUT Type: Portable Handset	Page 40 of 159

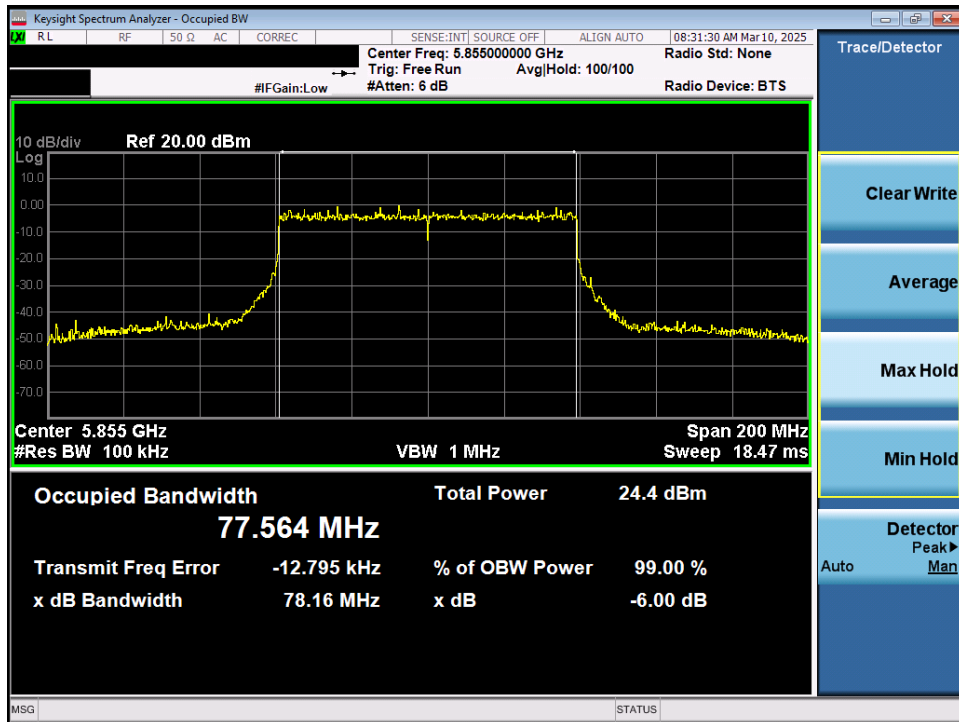


Plot 7-37. 6dB Bandwidth Plot MIMO ANT1 (40MHz 802.11ax/be (UNII Band 3/4) – Ch. 167)

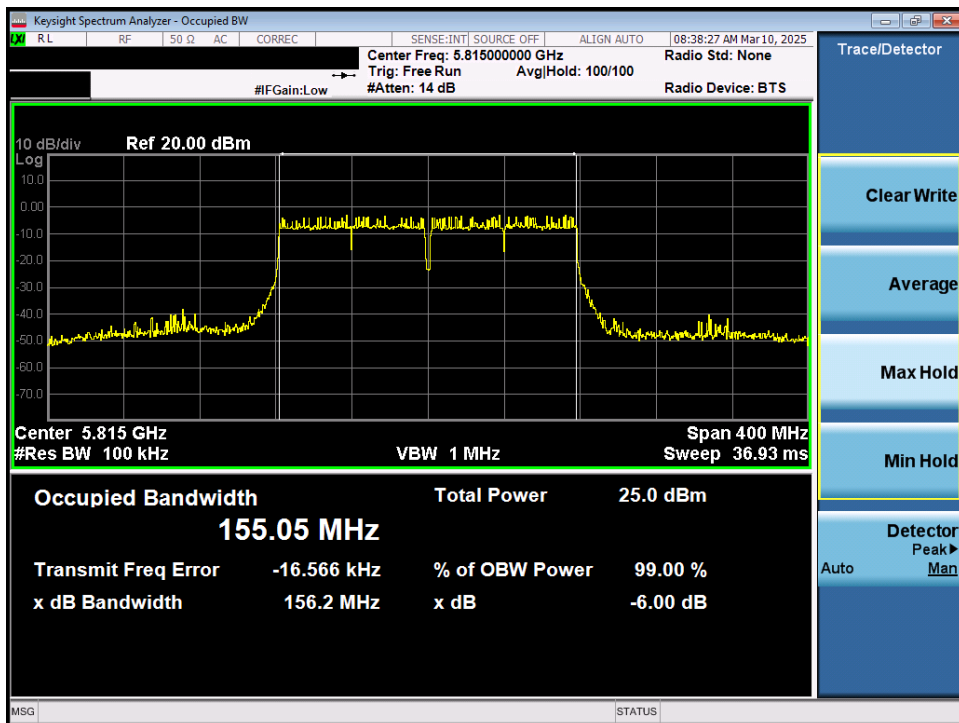


Plot 7-38. 6dB Bandwidth Plot MIMO ANT1 (80MHz 802.11ac (UNII Band 3/4) – Ch. 171)

FCC ID: A3LSMF966JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2504070040-07.A3L	Test Dates: 02/24/2025 - 05/05/2025	EUT Type: Portable Handset	Page 41 of 159

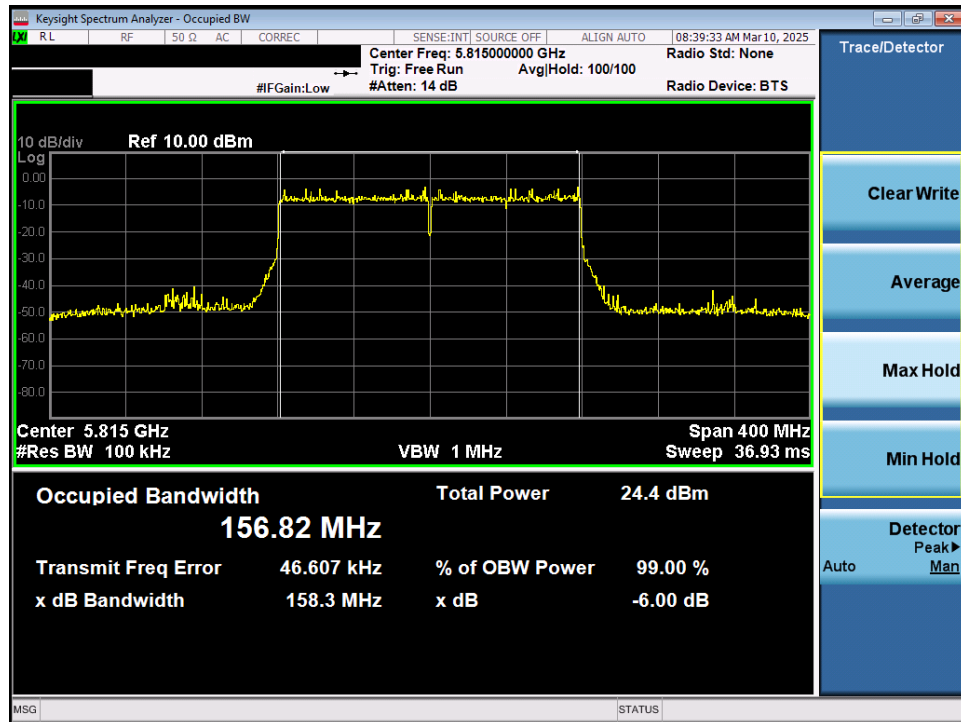


Plot 7-39. 6dB Bandwidth Plot MIMO ANT1 (80MHz 802.11ax/be (UNII Band 3/4) – Ch. 171)

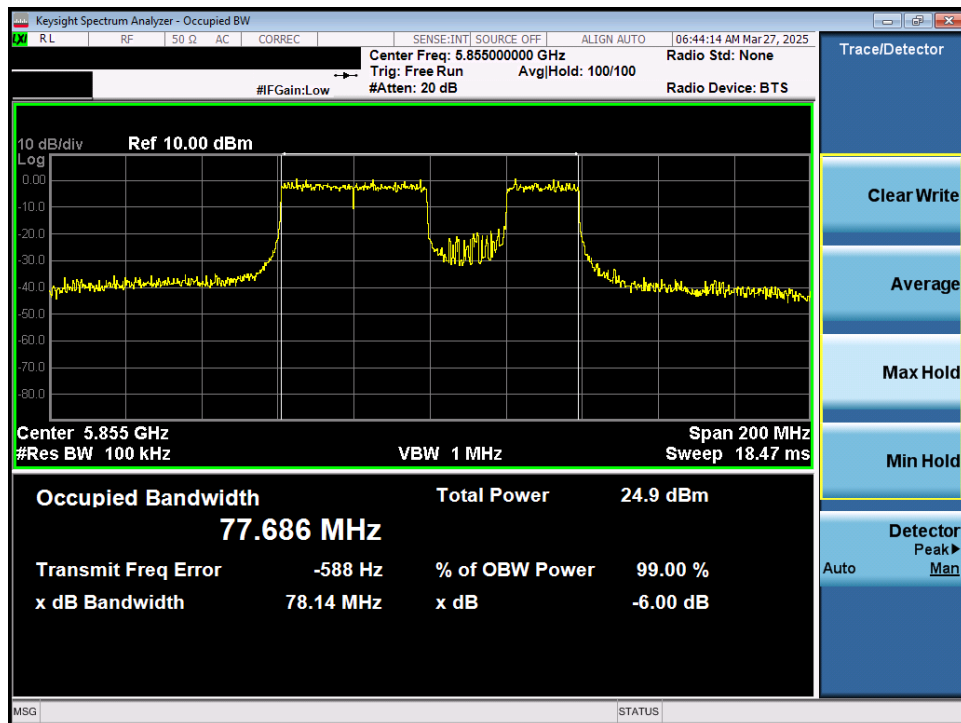


Plot 7-40. 6dB Bandwidth Plot MIMO ANT1 (160MHz 802.11ac (UNII Band 3/4) – Ch. 163)

FCC ID: A3LSMF966JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2504070040-07.A3L	Test Dates: 02/24/2025 - 05/05/2025	EUT Type: Portable Handset	Page 42 of 159

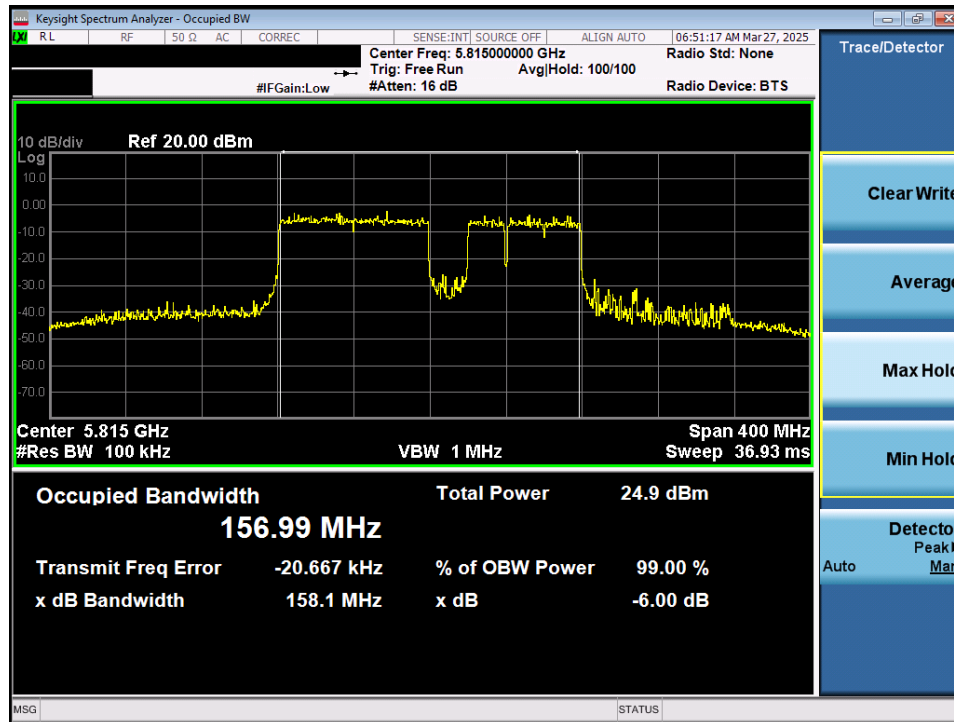


Plot 7-41. 6dB Bandwidth Plot MIMO ANT1 (160MHz 802.11ax/be (UNII Band 3/4) – Ch. 163)

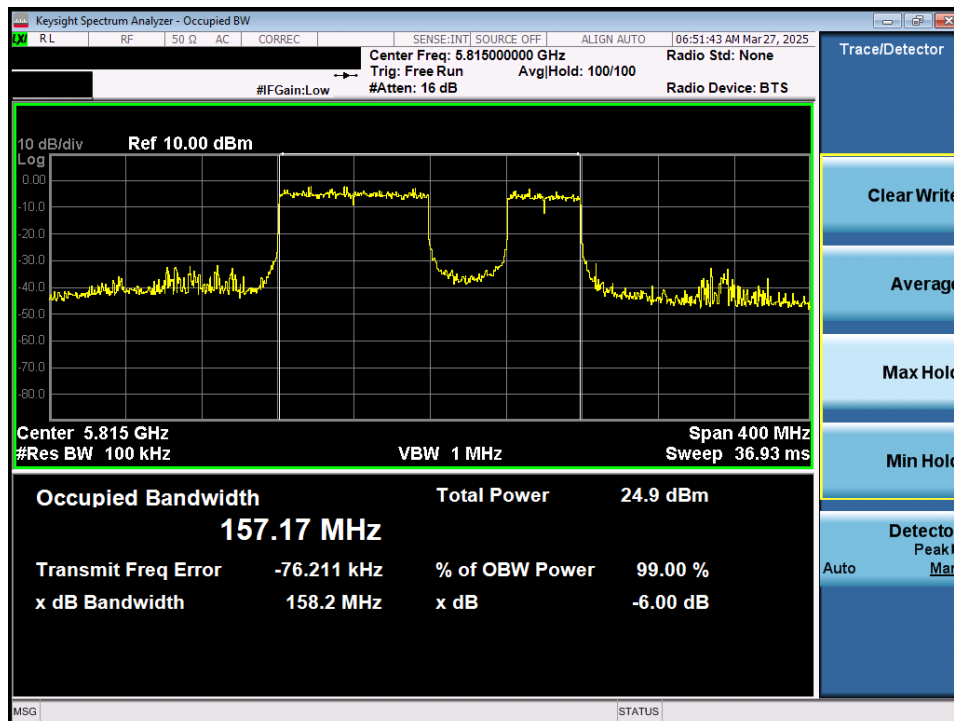


Plot 7-42. 6dB Bandwidth Plot MIMO ANT1 (80MHz 802.11be (20MHz Puncture) (UNII Band 3/4) – Ch. 171)

FCC ID: A3LSMF966JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2504070040-07.A3L	Test Dates: 02/24/2025 - 05/05/2025	EUT Type: Portable Handset	Page 43 of 159



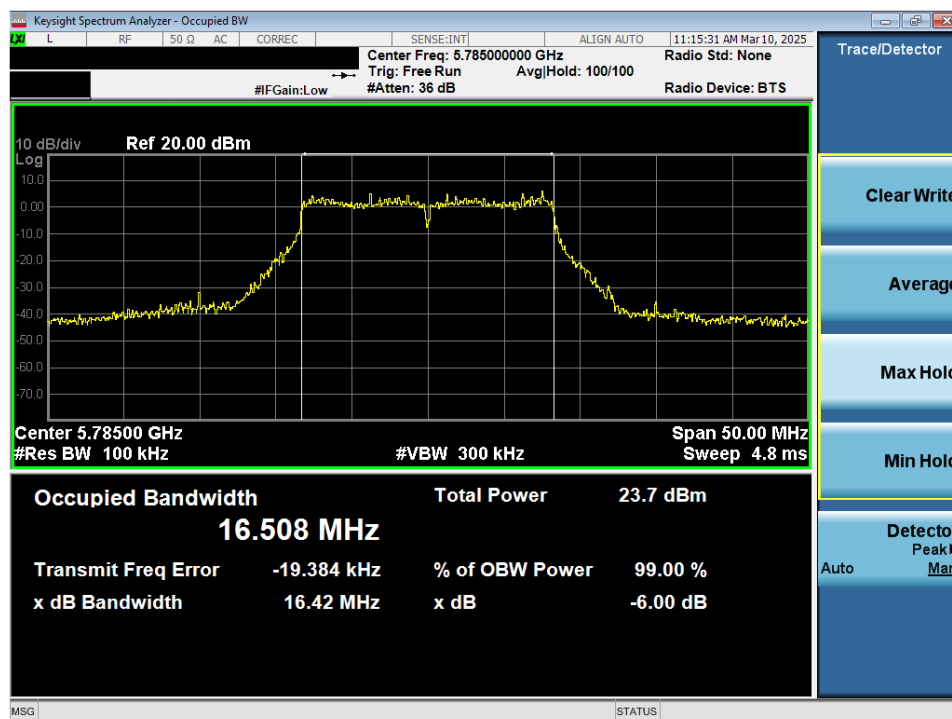
Plot 7-43. 6dB Bandwidth Plot MIMO ANT1 (160MHz 802.11be (20MHz Puncture) (UNII Band 3/4) – Ch. 163)



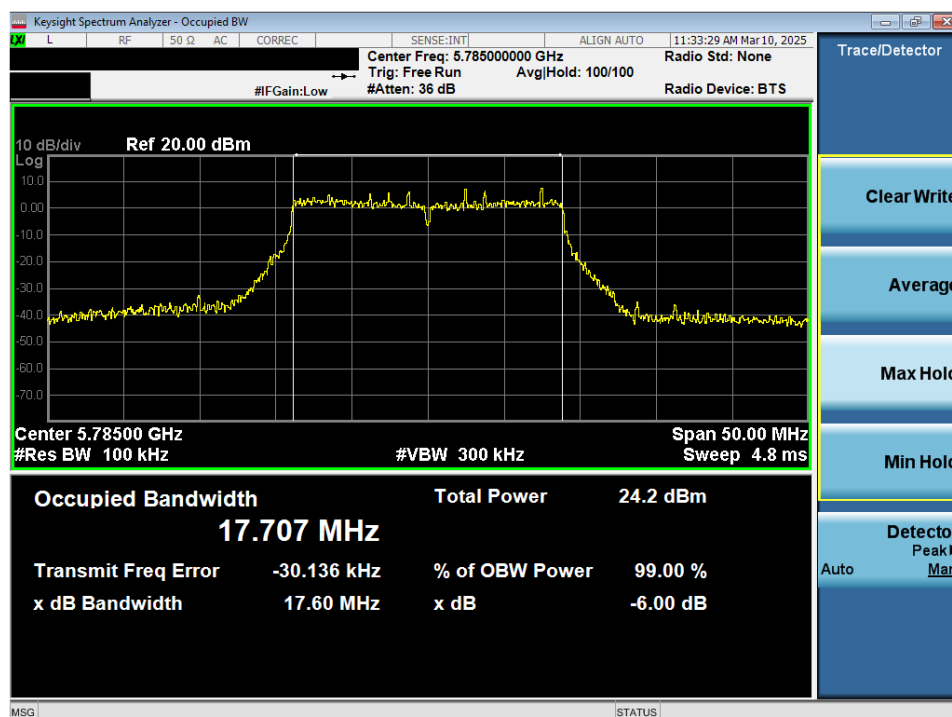
Plot 7-44. 6dB Bandwidth Plot MIMO ANT1 (160MHz 802.11be (40MHz Puncture) (UNII Band 3/4) – Ch. 163)

FCC ID: A3LSMF966JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2504070040-07.A3L	Test Dates: 02/24/2025 - 05/05/2025	EUT Type: Portable Handset	Page 44 of 159

7.3.2 MIMO Antenna-2 6dB Bandwidth Measurements

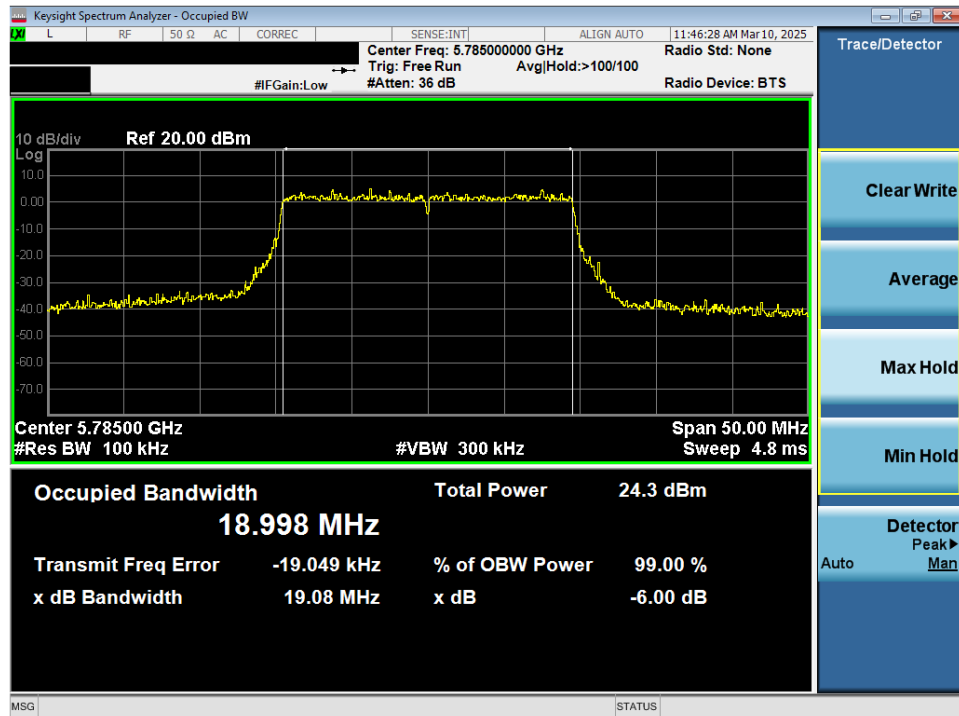


Plot 7-45. 6dB Bandwidth Plot MIMO ANT2 (20MHz 802.11a (UNII Band 3) – Ch.157)

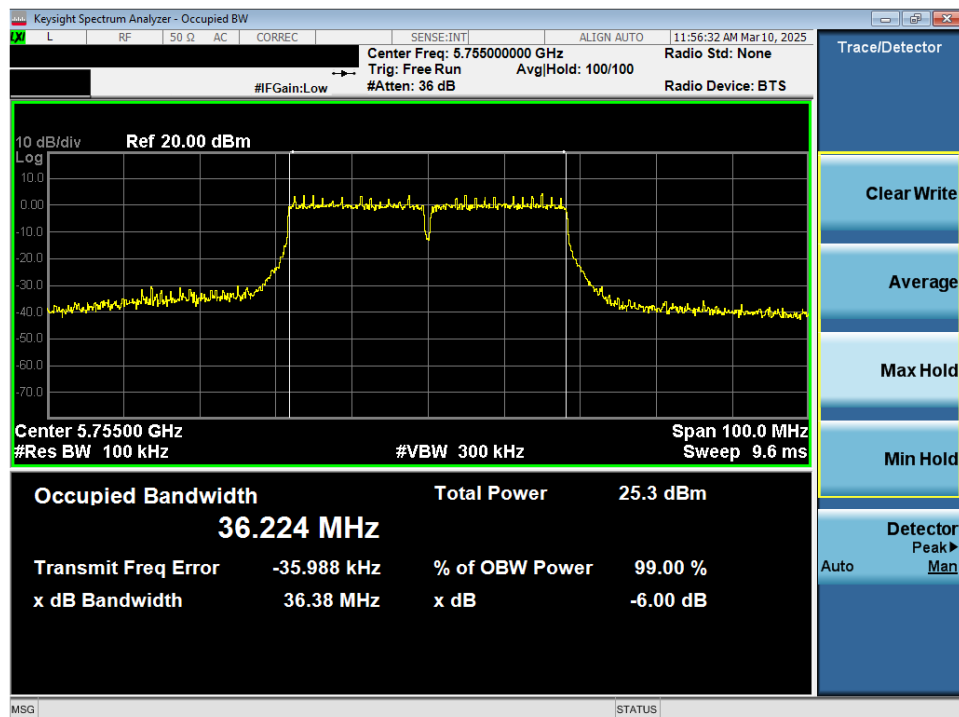


Plot 7-46. 6dB Bandwidth Plot MIMO ANT2 (20MHz 802.11n (UNII Band 3) – Ch.157)

FCC ID: A3LSMF966JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2504070040-07.A3L	Test Dates: 02/24/2025 - 05/05/2025	EUT Type: Portable Handset	Page 45 of 159



Plot 7-47. 6dB Bandwidth Plot MIMO ANT2 (20MHz 802.11ax/be (UNII Band 3) – Ch.157)

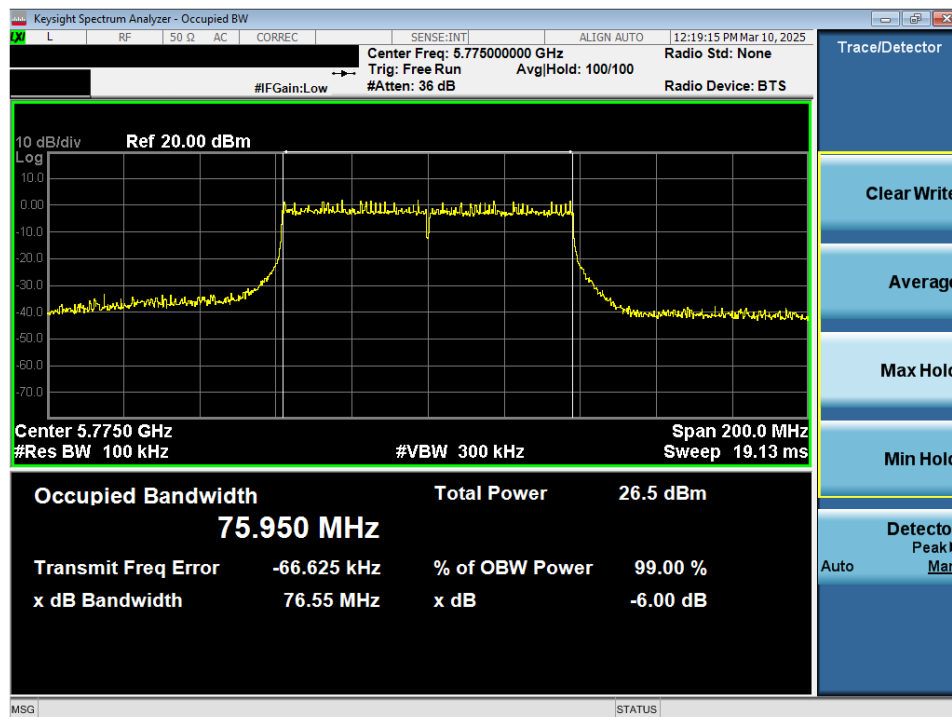


Plot 7-48. 6dB Bandwidth Plot MIMO ANT2 (40MHz 802.11n (UNII Band 3) – Ch. 151)

FCC ID: A3LSMF966JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2504070040-07.A3L	Test Dates: 02/24/2025 - 05/05/2025	EUT Type: Portable Handset	Page 46 of 159

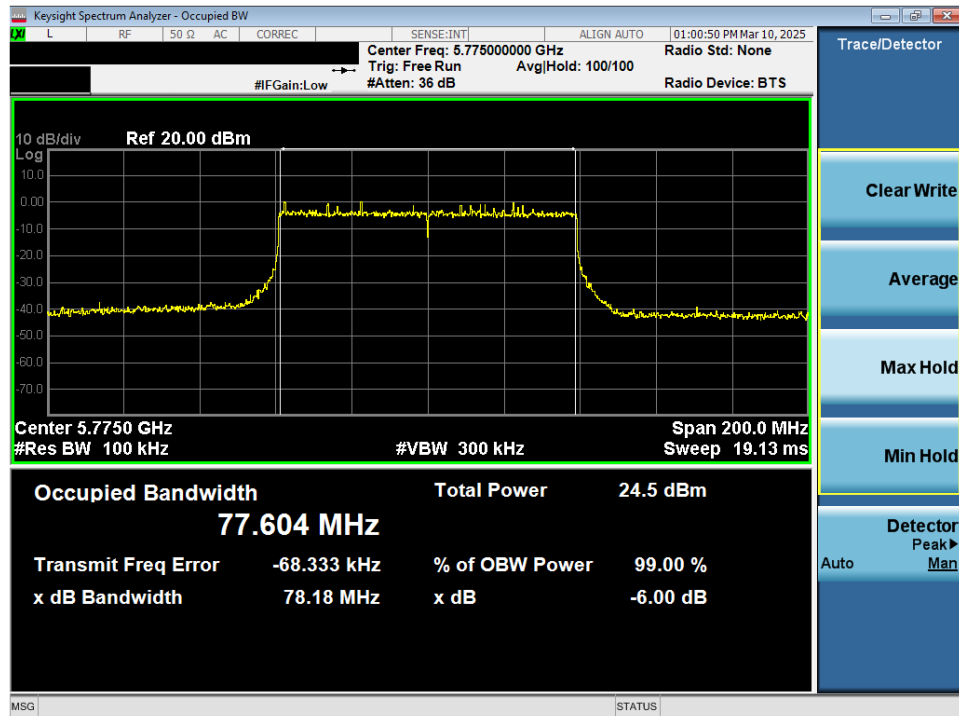


Plot 7-49. 6dB Bandwidth Plot MIMO ANT2 (40MHz 802.11ax/be (UNII Band 3) – Ch. 151)

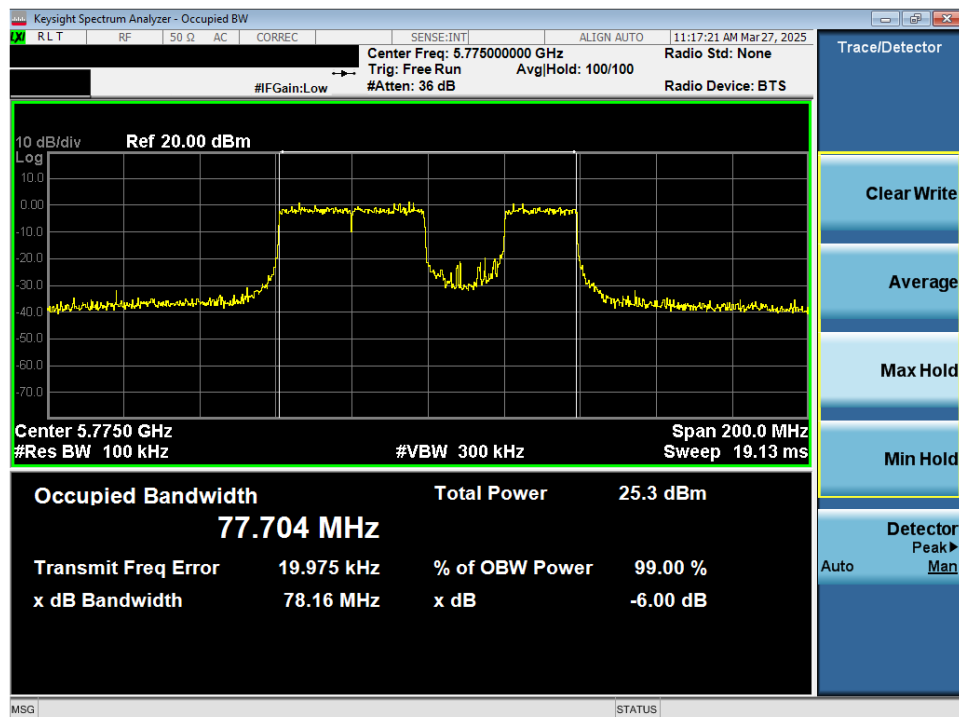


Plot 7-50. 6dB Bandwidth Plot MIMO ANT2 (80MHz 802.11ac (UNII Band 3) – Ch. 155)

FCC ID: A3LSMF966JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2504070040-07.A3L	Test Dates: 02/24/2025 - 05/05/2025	EUT Type: Portable Handset	Page 47 of 159

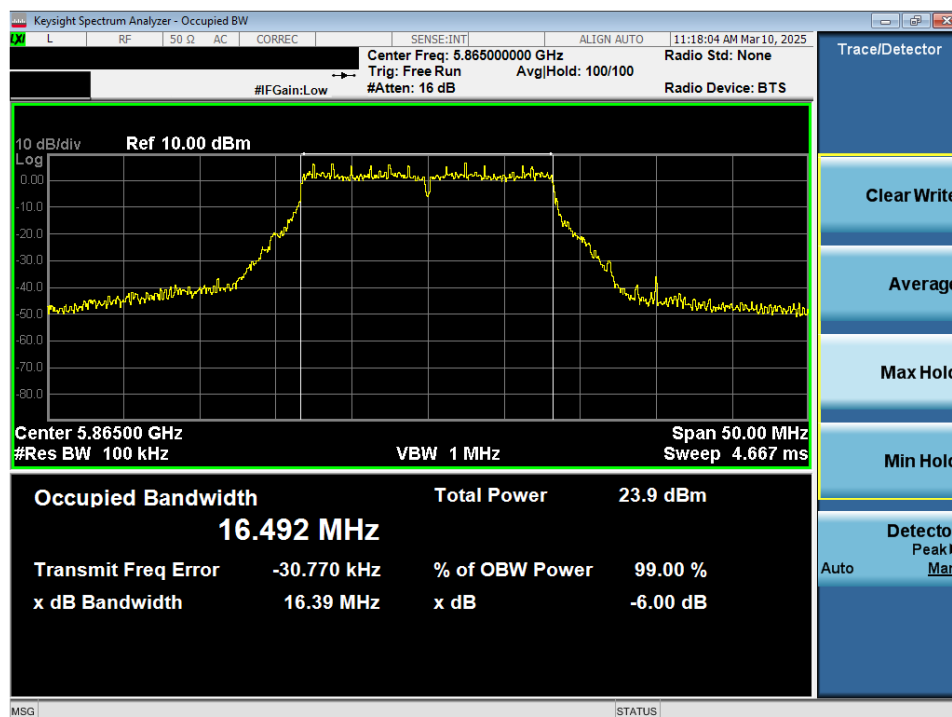


Plot 7-51. 6dB Bandwidth Plot MIMO ANT2 (80MHz 802.11ax/be (UNII Band 3) – Ch. 155)

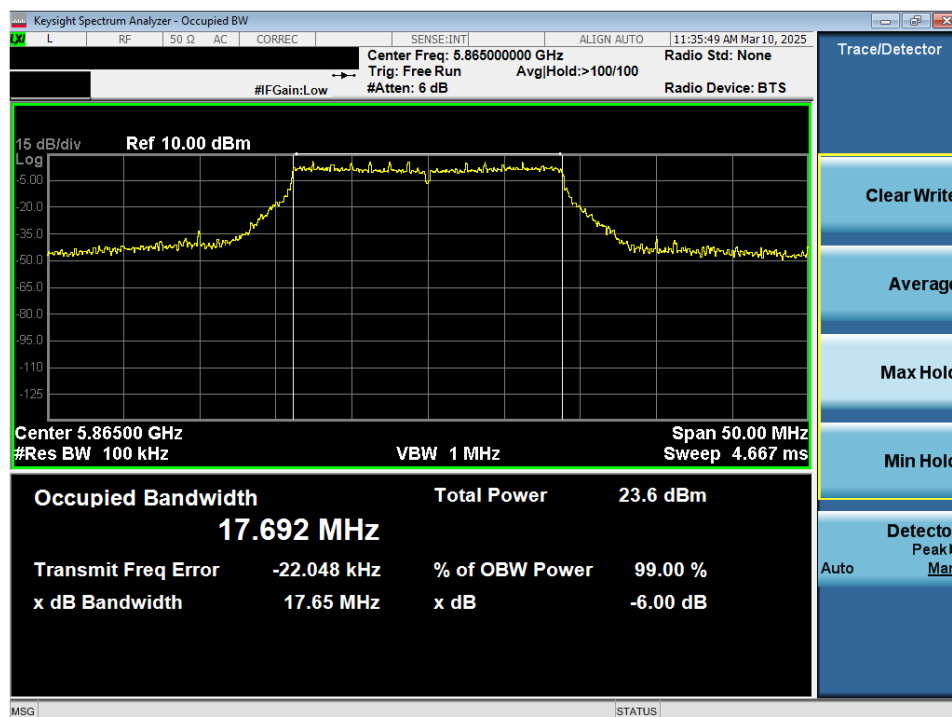


Plot 7-52. 6dB Bandwidth Plot MIMO ANT2 (80MHz 802.11be (20MHz Puncture) (UNII Band 3) – Ch. 155)

FCC ID: A3LSMF966JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2504070040-07.A3L	Test Dates: 02/24/2025 - 05/05/2025	EUT Type: Portable Handset	Page 48 of 159

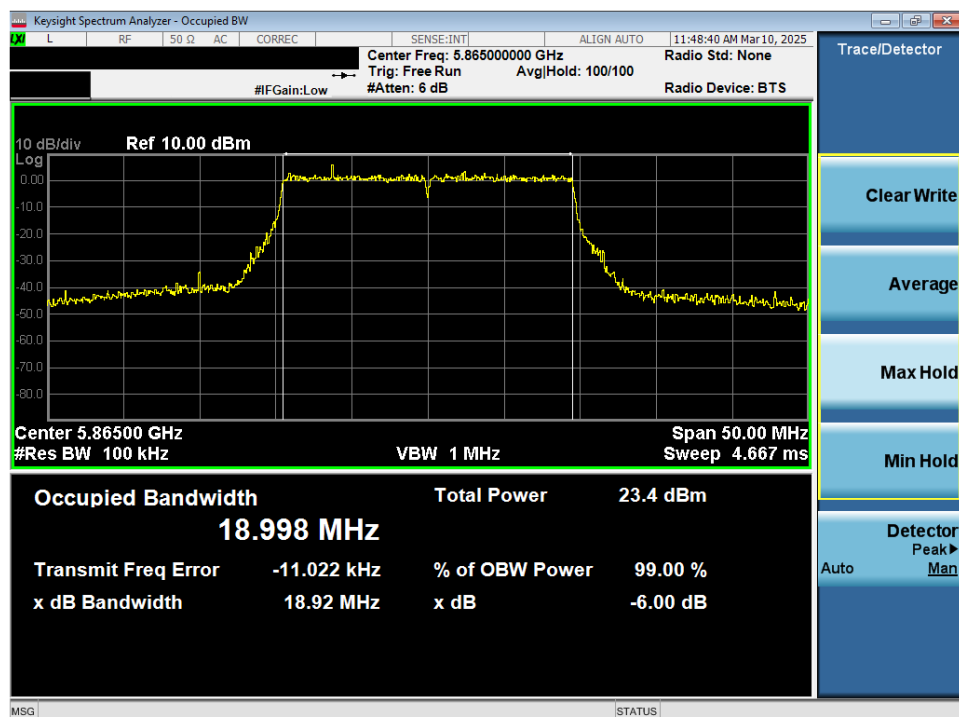


Plot 7-53. 6dB Bandwidth Plot MIMO ANT2 (20MHz 802.11a (UNII Band 4) – Ch.173)

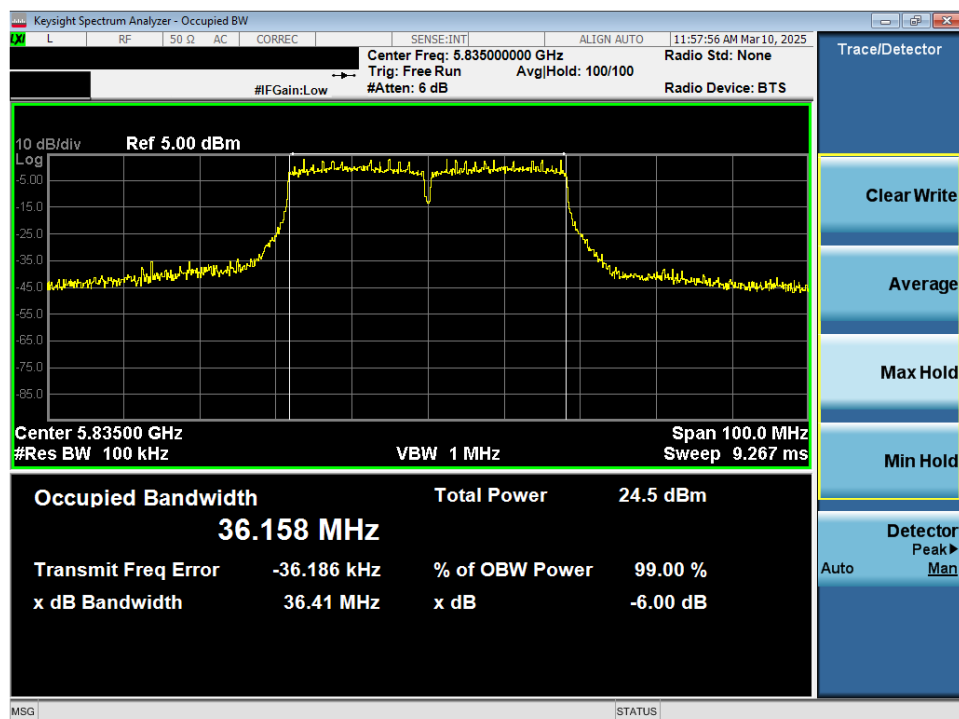


Plot 7-54. 6dB Bandwidth Plot MIMO ANT2 (20MHz 802.11n (UNII Band 4) – Ch.173)

FCC ID: A3LSMF966JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2504070040-07.A3L	Test Dates: 02/24/2025 - 05/05/2025	EUT Type: Portable Handset	Page 49 of 159

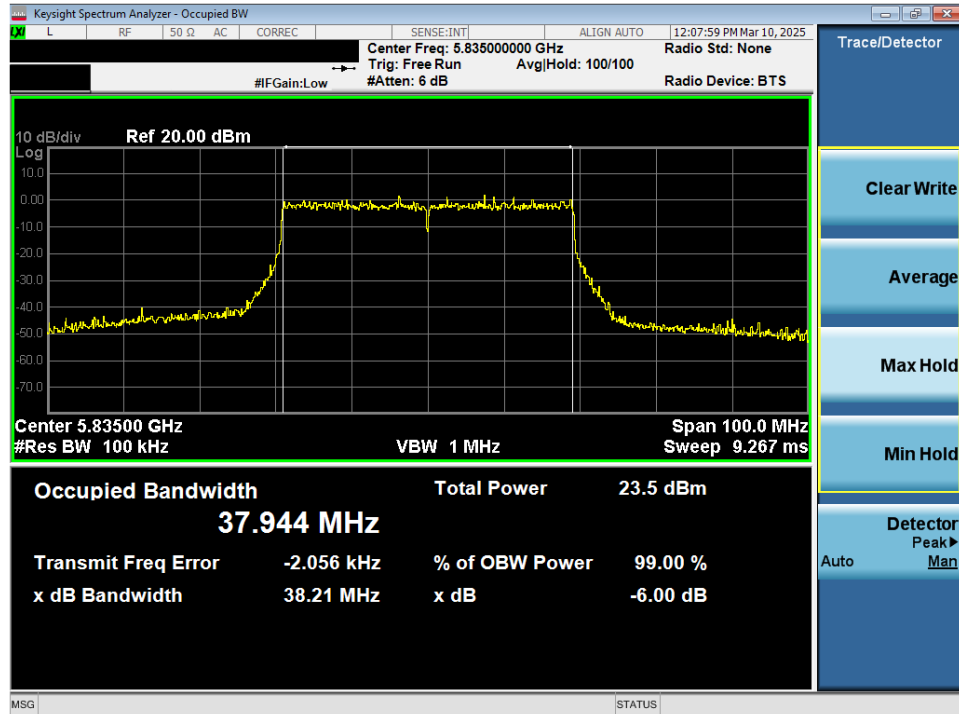


Plot 7-55. 6dB Bandwidth Plot MIMO ANT2 (20MHz 802.11ax/be (UNII Band 4) – Ch.173)

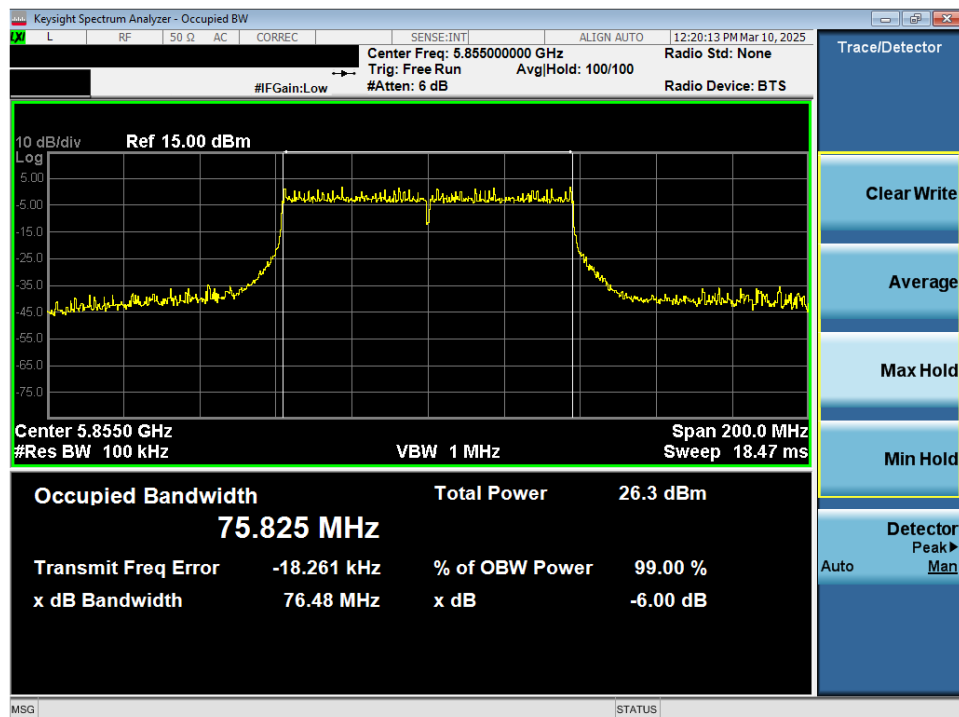


Plot 7-56. 6dB Bandwidth Plot MIMO ANT2 (40MHz 802.11n (UNII Band 3/4) – Ch. 167)

FCC ID: A3LSMF966JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2504070040-07.A3L	Test Dates: 02/24/2025 - 05/05/2025	EUT Type: Portable Handset	Page 50 of 159

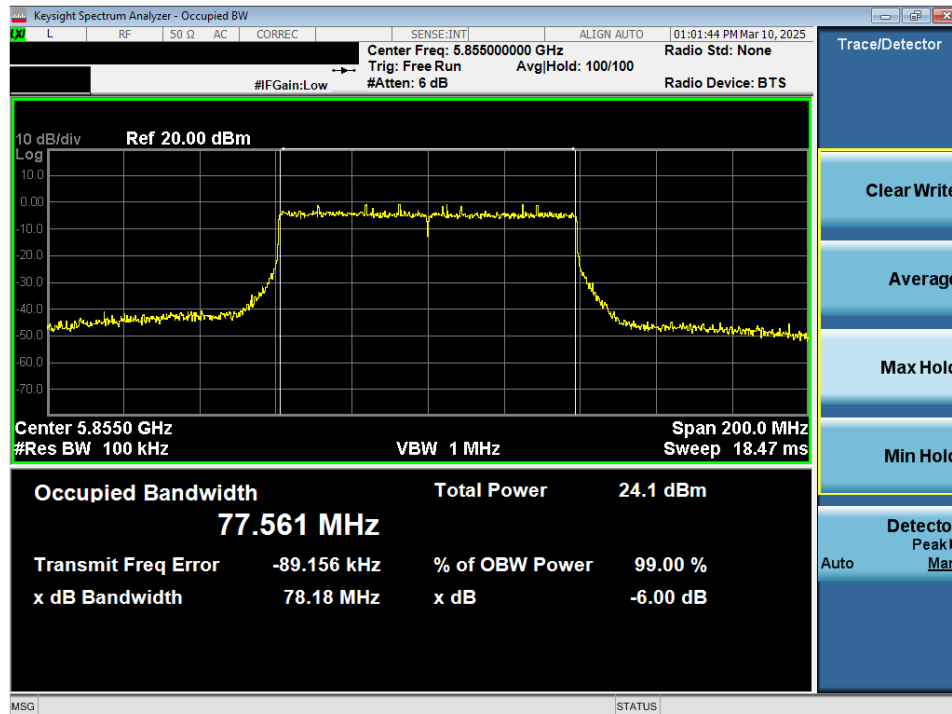


Plot 7-57. 6dB Bandwidth Plot MIMO ANT2 (40MHz 802.11ax/be (UNII Band 3/4) – Ch. 167)

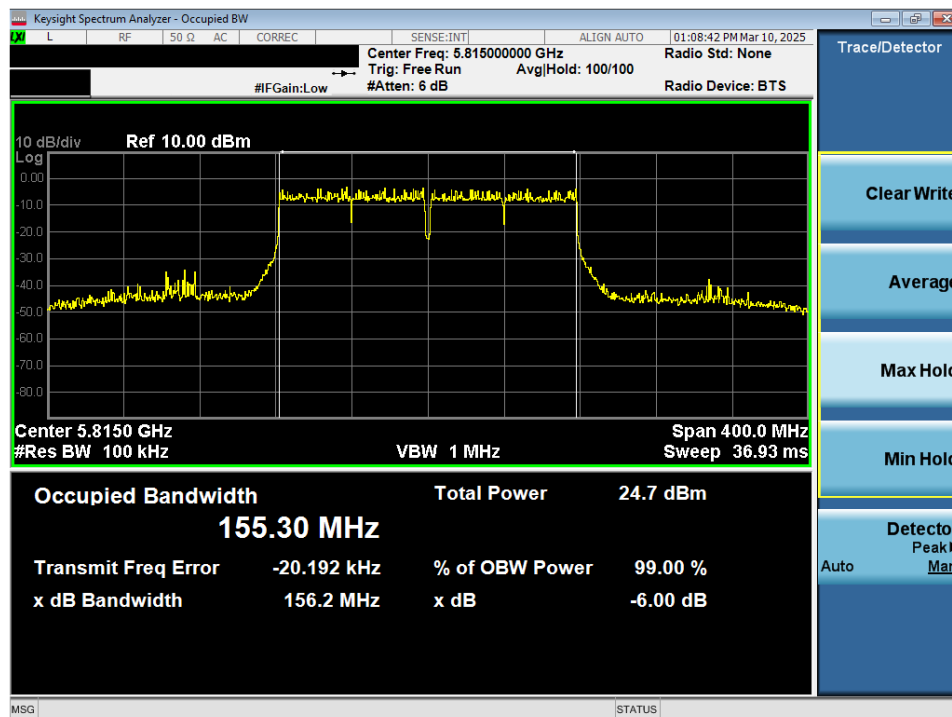


Plot 7-58. 6dB Bandwidth Plot MIMO ANT2 (80MHz 802.11ac (UNII Band 3/4) – Ch. 171)

FCC ID: A3LSMF966JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2504070040-07.A3L	Test Dates: 02/24/2025 - 05/05/2025	EUT Type: Portable Handset	Page 51 of 159

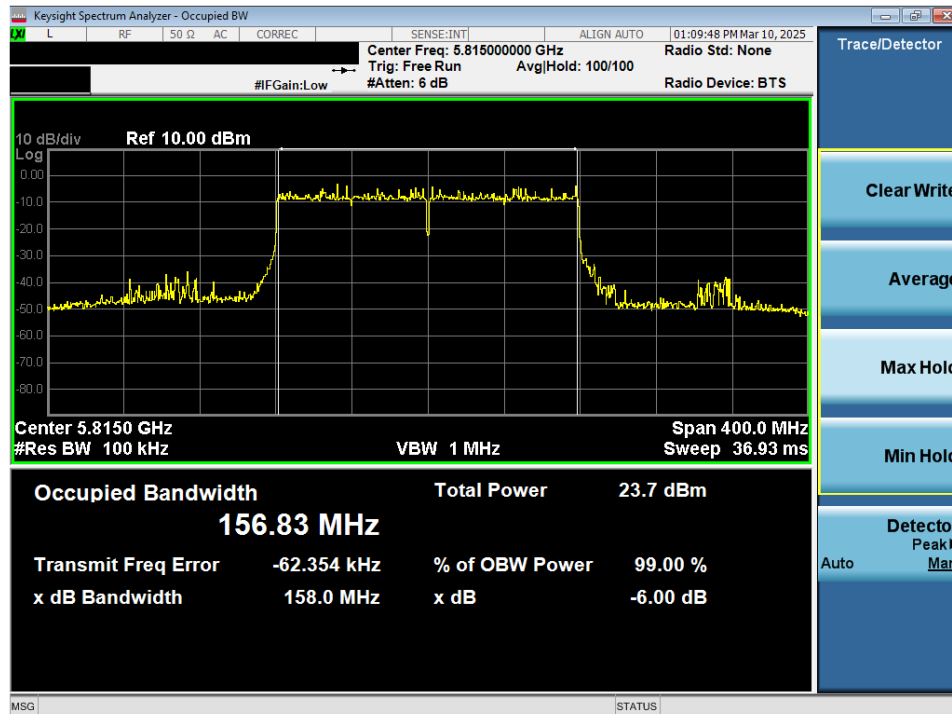


Plot 7-59. 6dB Bandwidth Plot MIMO ANT2 (80MHz 802.11ax/be (UNII Band 3/4) – Ch. 171)

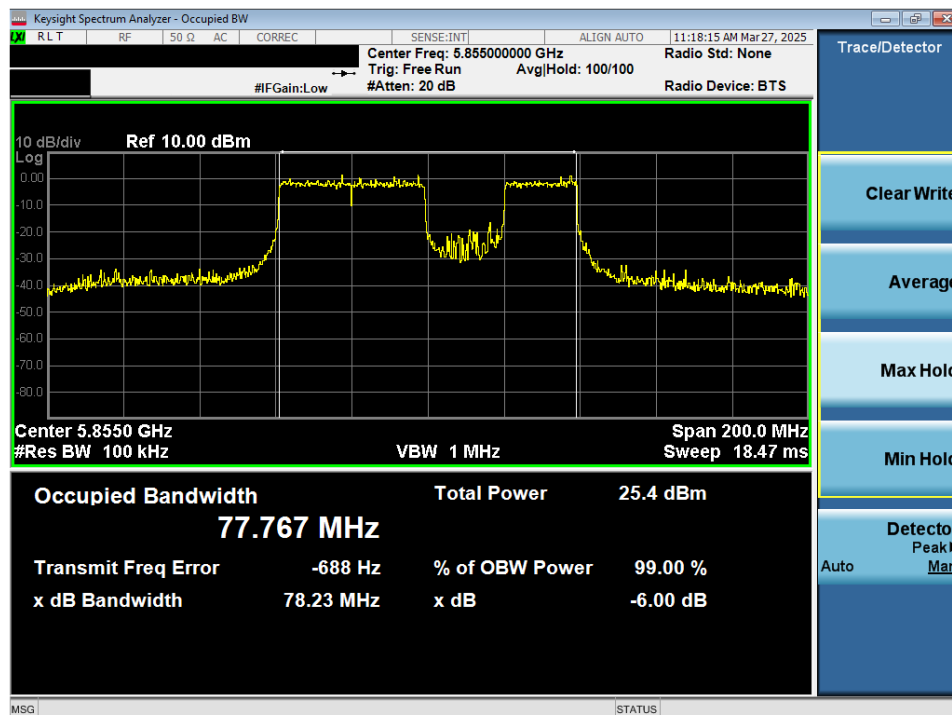


Plot 7-60. 6dB Bandwidth Plot MIMO ANT2 (160MHz 802.11ac (UNII Band 3/4) – Ch. 163)

FCC ID: A3LSMF966JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2504070040-07.A3L	Test Dates: 02/24/2025 - 05/05/2025	EUT Type: Portable Handset	Page 52 of 159

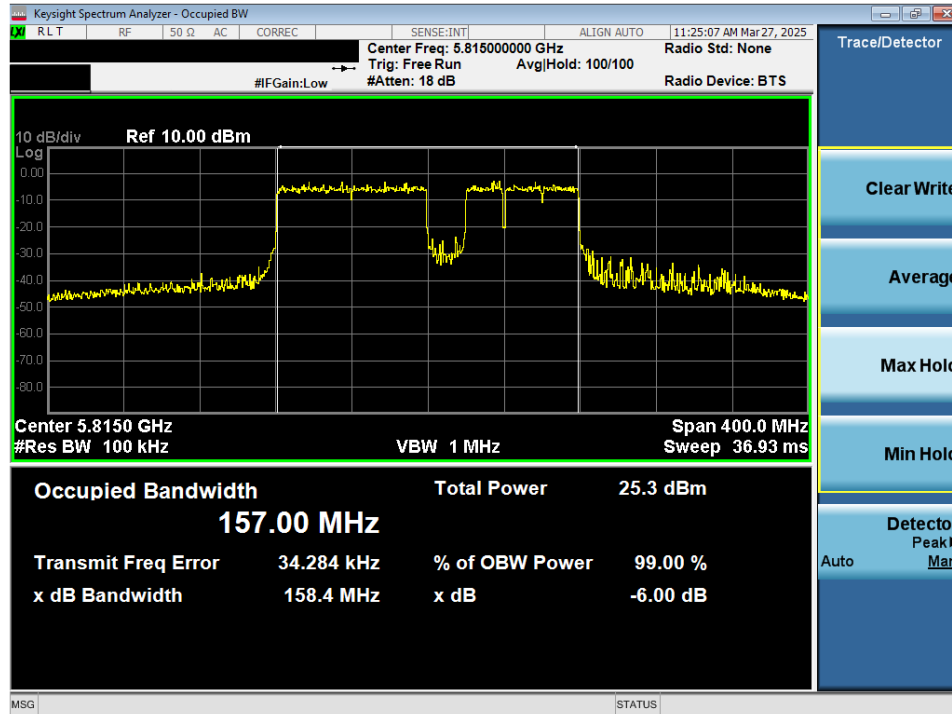


Plot 7-61. 6dB Bandwidth Plot MIMO ANT2 (160MHz 802.11ax/be (UNII Band 3/4) – Ch. 163)

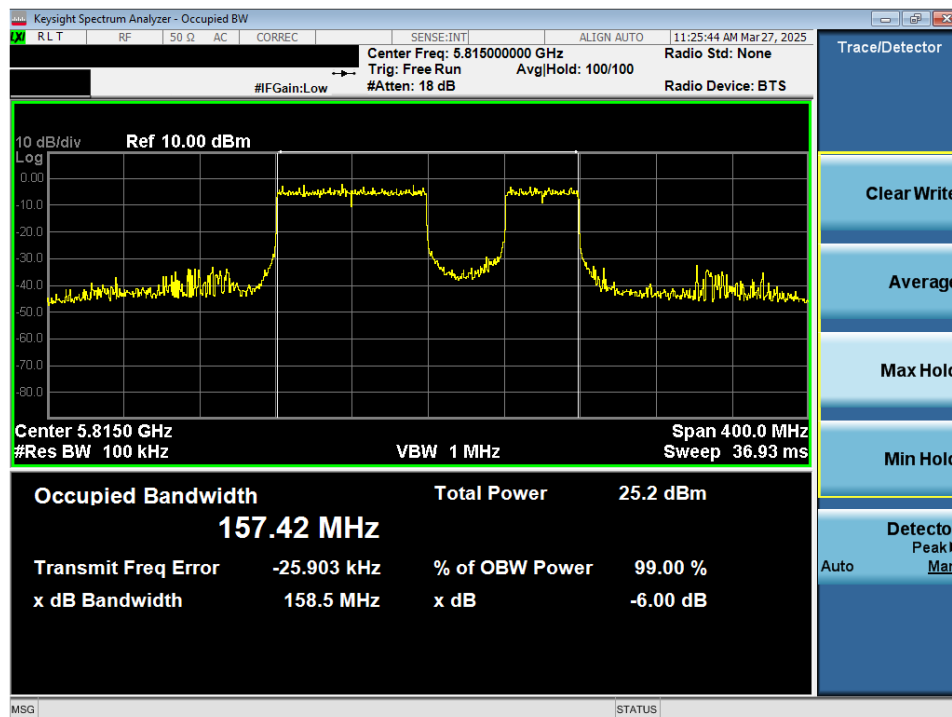


Plot 7-62. 6dB Bandwidth Plot MIMO ANT2 (80MHz 802.11be (20MHz Puncture) (UNII Band 3/4) – Ch. 171)

FCC ID: A3LSMF966JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2504070040-07.A3L	Test Dates: 02/24/2025 - 05/05/2025	EUT Type: Portable Handset	Page 53 of 159



Plot 7-63. 6dB Bandwidth Plot MIMO ANT2 (160MHz 802.11be (20MHz Puncture) (UNII Band 3/4) – Ch. 163)



Plot 7-64. 6dB Bandwidth Plot MIMO ANT2 (160MHz 802.11be (40MHz Puncture) (UNII Band 3/4) – Ch. 163)

FCC ID: A3LSMF966JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2504070040-07.A3L	Test Dates: 02/24/2025 - 05/05/2025	EUT Type: Portable Handset	Page 54 of 159

7.4 UNII Output Power Measurement

Test Overview and Limits

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

The output power limits are as specified in the tables below.

UNII Band	Frequency Range	Maximum Conducted Power Limit	Maximum e.i.r.p
		FCC	FCC
UNII 1	5.15 – 5.25GHz	23.98dBm (250mW)	N/A
UNII 2A	5.25 – 5.35GHz	The lesser of 23.98dBm (250mW) or 11dBm + 10log ₁₀ B	N/A
UNII 2C	5.47 – 5.725GHz		
UNII 3	5.725 – 5.850GHz	30dBm (1W)	N/A
UNII 4	5.850 – 5.895GHz	N/A	30dBm (1W)

UNII Band	Frequency Range	Maximum Conducted Power Limit	Maximum e.i.r.p
		ISED	ISED
UNII 1	5.15 – 5.25GHz	N/A	The lesser of 23.01dBm (200mW) or 10dBm + 10log ₁₀ B
UNII 2A	5.25 – 5.35GHz	The lesser of 23.98dBm (250mW) or 11dBm + 10log ₁₀ B	The lesser of 30dBm (1W) or 17dBm + 10log ₁₀ B
UNII 2C	5.47 – 5.725GHz		
UNII 3	5.725 – 5.850GHz	30dBm (1W)	N/A
UNII 4	5.850 – 5.895GHz	N/A	30dBm (1W)

Test Procedure Used

ANSI C63.10-2020 – Section 12.4.3.2 Method PM-G

ANSI C63.10-2020 – Section 14.5.2.3 Measure-and-Sum Technique

Test Settings

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

Test Setup

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



Figure 7-3. Test Instrument & Measurement Setup

Test Notes

None.

FCC ID: A3LSMF966JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2504070040-07.A3L	Test Dates: 02/24/2025 - 05/05/2025	EUT Type: Portable Handset	Page 55 of 159

SISO ANT1 Maximum Conducted Output Power Measurements

5GHz WIFI (20MHz 802.11a SISO ANT1)				Conducted Power Limit [dBm]	Conducted Power Margin [dB]	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 Power [dBm]						
UNII-1	5180	36	17.49	23.98	-6.49	-3.52	13.97	30.00	-16.03
	5200	40	17.11	23.98	-6.87	-3.52	13.59	30.00	-16.41
	5220	44	17.11	23.98	-6.87	-3.52	13.59	30.00	-16.41
	5240	48	17.14	23.98	-6.84	-3.52	13.62	30.00	-16.38
UNII-2A	5260	52	17.23	23.98	-6.75	-3.44	13.79	30.00	-16.21
	5280	56	17.26	23.98	-6.72	-3.44	13.82	30.00	-16.18
	5300	60	17.20	23.98	-6.78	-3.44	13.76	30.00	-16.24
	5320	64	17.20	23.98	-6.78	-3.44	13.76	30.00	-16.24
UNII-2C	5500	100	17.12	23.98	-6.86	-4.53	12.59	30.00	-17.41
	5600	120	17.11	23.98	-6.87	-4.53	12.58	30.00	-17.42
	5620	124	17.03	23.98	-6.95	-4.53	12.50	30.00	-17.50
	5720	144	17.23	23.98	-6.75	-4.53	12.70	30.00	-17.30
UNII-3	5745	149	17.21	30.00	-12.79	-3.36	13.85	36.00	-22.15
	5785	157	17.24	30.00	-12.76	-3.36	13.88	36.00	-22.12
	5825	165	17.14	30.00	-12.86	-3.36	13.78	36.00	-22.22
UNII-4	5845	169	17.35	-	-	-3.75	13.60	30.00	-16.40
	5865	173	17.34	-	-	-3.75	13.59	30.00	-16.41
	5885	177	17.38	-	-	-3.75	13.63	30.00	-16.37

Table 7-7. SISO ANT1 20MHz BW 802.11a (UNII) Maximum Conducted Output Power

5GHz WIFI (20MHz 802.11n SISO ANT1)				Conducted Power Limit [dBm]	Conducted Power Margin [dB]	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 Power [dBm]						
UNII-1	5180	36	17.12	23.98	-6.86	-3.52	13.60	30.00	-16.40
	5200	40	17.20	23.98	-6.78	-3.52	13.68	30.00	-16.32
	5220	44	17.29	23.98	-6.69	-3.52	13.77	30.00	-16.23
	5240	48	17.28	23.98	-6.70	-3.52	13.76	30.00	-16.24
UNII-2A	5260	52	17.35	23.98	-6.63	-3.44	13.91	30.00	-16.09
	5280	56	17.34	23.98	-6.64	-3.44	13.90	30.00	-16.10
	5300	60	17.37	23.98	-6.61	-3.44	13.93	30.00	-16.07
	5320	64	17.33	23.98	-6.65	-3.44	13.89	30.00	-16.11
UNII-2C	5500	100	17.26	23.98	-6.72	-4.53	12.73	30.00	-17.27
	5600	120	17.22	23.98	-6.76	-4.53	12.69	30.00	-17.31
	5620	124	17.24	23.98	-6.74	-4.53	12.71	30.00	-17.29
	5720	144	17.35	23.98	-6.63	-4.53	12.82	30.00	-17.18
UNII-3	5745	149	17.29	30.00	-12.71	-3.36	13.93	36.00	-22.07
	5785	157	17.29	30.00	-12.71	-3.36	13.93	36.00	-22.07
	5825	165	17.30	30.00	-12.70	-3.36	13.94	36.00	-22.06
UNII-4	5845	169	17.49	-	-	-3.75	13.74	30.00	-16.26
	5865	173	17.49	-	-	-3.75	13.74	30.00	-16.26
	5885	177	17.41	-	-	-3.75	13.66	30.00	-16.34

Table 7-8. SISO ANT1 20MHz BW 802.11n (UNII) Maximum Conducted Output Power

FCC ID: A3LSMF966JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2504070040-07.A3L	Test Dates: 02/24/2025 - 05/05/2025	EUT Type: Portable Handset	Page 56 of 159

5GHz WIFI (20MHz 802.11ac SISO ANT1)				Conducted Power Limit [dBm]	Conducted Power Margin [dB]	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 Power [dBm]						
UNII-1	5180	36	17.10	23.98	-6.88	-3.52	13.58	30.00	-16.42
	5200	40	17.15	23.98	-6.83	-3.52	13.63	30.00	-16.37
	5220	44	17.24	23.98	-6.74	-3.52	13.72	30.00	-16.28
	5240	48	17.26	23.98	-6.72	-3.52	13.74	30.00	-16.26
UNII-2A	5260	52	17.27	23.98	-6.71	-3.44	13.83	30.00	-16.17
	5280	56	17.29	23.98	-6.69	-3.44	13.85	30.00	-16.15
	5300	60	17.27	23.98	-6.71	-3.44	13.83	30.00	-16.17
	5320	64	17.27	23.98	-6.71	-3.44	13.83	30.00	-16.17
UNII-2C	5500	100	17.21	23.98	-6.77	-4.53	12.68	30.00	-17.32
	5600	120	17.21	23.98	-6.77	-4.53	12.68	30.00	-17.32
	5620	124	17.14	23.98	-6.84	-4.53	12.61	30.00	-17.39
	5720	144	17.30	23.98	-6.68	-4.53	12.77	30.00	-17.23
UNII-3	5745	149	17.26	30.00	-12.74	-3.36	13.90	36.00	-22.10
	5785	157	17.26	30.00	-12.74	-3.36	13.90	36.00	-22.10
	5825	165	17.25	30.00	-12.75	-3.36	13.89	36.00	-22.11
UNII-4	5845	169	17.50	-	-	-3.75	13.75	30.00	-16.25
	5865	173	17.43	-	-	-3.75	13.68	30.00	-16.32
	5885	177	17.41	-	-	-3.75	13.66	30.00	-16.34

Table 7-9. SISO ANT1 20MHz BW 802.11ac (UNII) Maximum Conducted Output Power

5GHz WIFI (20MHz 802.11ax SISO ANT1)				Conducted Power Limit [dBm]	Conducted Power Margin [dB]	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 Power [dBm]						
UNII-1	5180	36	17.29	23.98	-6.69	-3.52	13.77	30.00	-16.23
	5200	40	17.40	23.98	-6.58	-3.52	13.88	30.00	-16.12
	5220	44	17.47	23.98	-6.51	-3.52	13.95	30.00	-16.05
	5240	48	17.48	23.98	-6.50	-3.52	13.96	30.00	-16.04
UNII-2A	5260	52	17.00	23.98	-6.98	-3.44	13.56	30.00	-16.44
	5280	56	17.04	23.98	-6.94	-3.44	13.60	30.00	-16.40
	5300	60	17.52	23.98	-6.46	-3.44	14.08	30.00	-15.92
	5320	64	17.01	23.98	-6.97	-3.44	13.57	30.00	-16.43
UNII-2C	5500	100	17.41	23.98	-6.57	-4.53	12.88	30.00	-17.12
	5600	120	17.42	23.98	-6.56	-4.53	12.89	30.00	-17.11
	5620	124	17.38	23.98	-6.60	-4.53	12.85	30.00	-17.15
	5720	144	17.02	23.98	-6.96	-4.53	12.49	30.00	-17.51
UNII-3	5745	149	17.50	30.00	-12.50	-3.36	14.14	36.00	-21.86
	5785	157	17.52	30.00	-12.48	-3.36	14.16	36.00	-21.84
	5825	165	17.46	30.00	-12.54	-3.36	14.10	36.00	-21.90
UNII-4	5845	169	17.15	-	-	-3.75	13.40	30.00	-16.60
	5865	173	17.11	-	-	-3.75	13.36	30.00	-16.64
	5885	177	17.07	-	-	-3.75	13.32	30.00	-16.68

Table 7-10. SISO ANT1 20MHz BW 802.11ax (UNII) Maximum Conducted Output Power

FCC ID: A3LSMF966JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2504070040-07.A3L	Test Dates: 02/24/2025 - 05/05/2025	EUT Type: Portable Handset	Page 57 of 159

5GHz WIFI (20MHz 802.11be SISO ANT1)				Conducted Power Limit [dBm]	Conducted Power Margin [dB]	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 Power [dBm]						
UNII-1	5180	36	17.30	23.98	-6.68	-3.52	13.78	30.00	-16.22
	5200	40	17.38	23.98	-6.60	-3.52	13.86	30.00	-16.14
	5220	44	17.46	23.98	-6.52	-3.52	13.94	30.00	-16.06
	5240	48	17.48	23.98	-6.50	-3.52	13.96	30.00	-16.04
UNII-2A	5260	52	17.55	23.98	-6.43	-3.44	14.11	30.00	-15.89
	5280	56	17.57	23.98	-6.41	-3.44	14.13	30.00	-15.87
	5300	60	17.55	23.98	-6.43	-3.44	14.11	30.00	-15.89
	5320	64	17.02	23.98	-6.96	-3.44	13.58	30.00	-16.42
UNII-2C	5500	100	17.42	23.98	-6.56	-4.53	12.89	30.00	-17.11
	5600	120	17.42	23.98	-6.56	-4.53	12.89	30.00	-17.11
	5620	124	17.38	23.98	-6.60	-4.53	12.85	30.00	-17.15
	5720	144	17.01	23.98	-6.97	-4.53	12.48	30.00	-17.52
UNII-3	5745	149	17.45	30.00	-12.55	-3.36	14.09	36.00	-21.91
	5785	157	17.50	30.00	-12.50	-3.36	14.14	36.00	-21.86
	5825	165	17.49	30.00	-12.51	-3.36	14.13	36.00	-21.87
UNII-4	5845	169	17.13	-	-	-3.75	13.38	30.00	-16.62
	5865	173	17.08	-	-	-3.75	13.33	30.00	-16.67
	5885	177	17.06	-	-	-3.75	13.31	30.00	-16.69

Table 7-11. SISO ANT1 20MHz BW 802.11be (UNII) Maximum Conducted Output Power

5GHz WIFI (40MHz 802.11n SISO ANT1)				Conducted Power Limit [dBm]	Conducted Power Margin [dB]	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 Power [dBm]						
UNII-1	5190	38	9.54	23.98	-14.44	-3.52	6.02	30.00	-23.98
	5230	46	17.47	23.98	-6.51	-3.52	13.95	30.00	-16.05
UNII-2A	5270	54	17.10	23.98	-6.88	-3.44	13.66	30.00	-16.34
	5310	62	11.12	23.98	-12.86	-3.44	7.68	30.00	-22.32
UNII-2C	5510	102	12.97	23.98	-11.01	-4.53	8.44	30.00	-21.56
	5590	118	17.57	23.98	-6.41	-4.53	13.04	30.00	-16.96
	5630	126	17.46	23.98	-6.52	-4.53	12.93	30.00	-17.07
	5710	142	17.19	23.98	-6.79	-4.53	12.66	30.00	-17.34
UNII-3	5755	151	17.07	30.00	-12.93	-3.36	13.71	36.00	-22.29
	5795	159	17.10	30.00	-12.90	-3.36	13.74	36.00	-22.26
UNII-4	5835	167	17.29	-	-	-3.36	13.93	30.00	-16.07
	5875	175	17.32	-	-	-3.75	13.57	30.00	-16.43

Table 7-12. SISO ANT1 40MHz BW 802.11n (UNII) Maximum Conducted Output Power

5GHz WIFI (40MHz 802.11ac SISO ANT1)				Conducted Power Limit [dBm]	Conducted Power Margin [dB]	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 Power [dBm]						
UNII-1	5190	38	9.55	23.98	-14.43	-3.52	6.03	30.00	-23.97
	5230	46	17.29	23.98	-6.69	-3.52	13.77	30.00	-16.23
UNII-2A	5270	54	17.52	23.98	-6.46	-3.44	14.08	30.00	-15.92
	5310	62	11.11	23.98	-12.87	-3.44	7.67	30.00	-22.33
UNII-2C	5510	102	13.04	23.98	-10.94	-4.53	8.51	30.00	-21.49
	5590	118	17.22	23.98	-6.76	-4.53	12.69	30.00	-17.31
	5630	126	17.06	23.98	-6.92	-4.53	12.53	30.00	-17.47
	5710	142	17.32	23.98	-6.66	-4.53	12.79	30.00	-17.21
UNII-3	5755	151	17.11	30.00	-12.89	-3.36	13.75	36.00	-22.25
	5795	159	17.25	30.00	-12.75	-3.36	13.89	36.00	-22.11
UNII-4	5835	167	17.04	-	-	-3.36	13.68	30.00	-16.32
	5875	175	17.11	-	-	-3.75	13.36	30.00	-16.64

Table 7-13. SISO ANT1 40MHz BW 802.11ac (UNII) Maximum Conducted Output Power

FCC ID: A3LSMF966JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2504070040-07.A3L	Test Dates: 02/24/2025 - 05/05/2025	EUT Type: Portable Handset	Page 58 of 159

5GHz WIFI (40MHz 802.11ax SISO ANT1)				Conducted	Conducted	Ant. Gain	Max e.i.r.p	e.i.r.p Limit	e.i.r.p Margin
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]	Power Limit [dBm]	Power Margin [dB]	[dBi]	[dBm]	[dBm]	[dB]
UNII-1	5190	38	9.22	23.98	-14.76	-3.52	5.70	30.00	-24.30
	5230	46	17.59	23.98	-6.39	-3.52	14.07	30.00	-15.93
UNII-2A	5270	54	17.27	23.98	-6.71	-3.44	13.83	30.00	-16.17
	5310	62	10.62	23.98	-13.36	-3.44	7.18	30.00	-22.82
UNII-2C	5510	102	12.54	23.98	-11.44	-4.53	8.01	30.00	-21.99
	5590	118	17.09	23.98	-6.89	-4.53	12.56	30.00	-17.44
	5630	126	17.07	23.98	-6.91	-4.53	12.54	30.00	-17.46
	5710	142	17.31	23.98	-6.67	-4.53	12.78	30.00	-17.22
UNII-3	5755	151	17.20	30.00	-12.80	-3.36	13.84	36.00	-22.16
	5795	159	17.28	30.00	-12.72	-3.36	13.92	36.00	-22.08
UNII-4	5835	167	17.42	-	-	-3.36	14.06	30.00	-15.94
	5875	175	17.45	-	-	-3.75	13.70	30.00	-16.30

Table 7-14. SISO ANT1 40MHz BW 802.11ax (UNII) Maximum Conducted Output Power

5GHz WIFI (40MHz 802.11be SISO ANT1)				Conducted	Conducted	Ant. Gain	Max e.i.r.p	e.i.r.p Limit	e.i.r.p Margin
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]	Power Limit [dBm]	Power Margin [dB]	[dBi]	[dBm]	[dBm]	[dB]
UNII-1	5190	38	9.11	23.98	-14.87	-3.52	5.59	30.00	-24.41
	5230	46	17.47	23.98	-6.51	-3.52	13.95	30.00	-16.05
UNII-2A	5270	54	17.10	23.98	-6.88	-3.44	13.66	30.00	-16.34
	5310	62	10.63	23.98	-13.35	-3.44	7.19	30.00	-22.81
UNII-2C	5510	102	12.57	23.98	-11.41	-4.53	8.04	30.00	-21.96
	5590	118	17.48	23.98	-6.50	-4.53	12.95	30.00	-17.05
	5630	126	17.44	23.98	-6.54	-4.53	12.91	30.00	-17.09
	5710	142	17.15	23.98	-6.83	-4.53	12.62	30.00	-17.38
UNII-3	5755	151	17.03	30.00	-12.97	-3.36	13.67	36.00	-22.33
	5795	159	17.11	30.00	-12.89	-3.36	13.75	36.00	-22.25
UNII-4	5835	167	17.23	-	-	-3.36	13.87	30.00	-16.13
	5875	175	17.26	-	-	-3.75	13.51	30.00	-16.49

Table 7-15. SISO ANT1 40MHz BW 802.11be (UNII) Maximum Conducted Output Power

5GHz WIFI (80MHz 802.11ac SISO ANT1)				Conducted	Conducted	Ant. Gain	Max e.i.r.p	e.i.r.p Limit	e.i.r.p Margin
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]	Power Limit [dBm]	Power Margin [dB]	[dBi]	[dBm]	[dBm]	[dB]
UNII-1	5210	42	10.34	23.98	-13.64	-3.52	6.82	30.00	-23.18
UNII-2A	5290	58	10.54	23.98	-13.44	-3.44	7.10	30.00	-22.90
UNII-2C	5530	106	13.66	23.98	-10.32	-4.53	9.13	30.00	-20.87
	5610	122	17.22	23.98	-6.76	-4.53	12.69	30.00	-17.31
	5690	138	17.38	23.98	-6.60	-4.53	12.85	30.00	-17.15
UNII-3	5775	155	14.26	30.00	-15.74	-3.36	10.90	36.00	-25.10
UNII-4	5885	171	14.48	-	-	-3.36	11.12	30.00	-18.88

Table 7-16. SISO ANT1 80MHz BW 802.11ac (UNII) Maximum Conducted Output Power

FCC ID: A3LSMF966JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2504070040-07.A3L	Test Dates: 02/24/2025 - 05/05/2025	EUT Type: Portable Handset	Page 59 of 159

5GHz WIFI (80MHz 802.11ax SISO ANT1)				Conducted Power Limit [dBm]	Conducted Power Margin [dB]	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 Power [dBm]						
UNII-1	5210	42	10.41	23.98	-13.57	-3.52	6.89	30.00	-23.11
UNII-2A	5290	58	10.36	23.98	-13.62	-3.44	6.92	30.00	-23.08
UNII-2C	5530	106	13.16	23.98	-10.82	-4.53	8.63	30.00	-21.37
	5610	122	17.04	23.98	-6.94	-4.53	12.51	30.00	-17.49
	5690	138	17.11	23.98	-6.87	-4.53	12.58	30.00	-17.42
UNII-3	5775	155	14.51	30.00	-15.49	-3.36	11.15	36.00	-24.85
UNII-4	5885	171	14.70	-	-	-3.36	11.34	30.00	-18.66

Table 7-17. SISO ANT1 80MHz BW 802.11ax (UNII) Maximum Conducted Output Power

5GHz WIFI (80MHz 802.11be SISO ANT1)				Conducted Power Limit [dBm]	Conducted Power Margin [dB]	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 Power [dBm]						
UNII-1	5210	42	10.47	23.98	-13.51	-3.52	6.95	30.00	-23.05
UNII-2A	5290	58	10.33	23.98	-13.65	-3.44	6.89	30.00	-23.11
UNII-2C	5530	106	13.33	23.98	-10.65	-4.53	8.80	30.00	-21.20
	5610	122	17.21	23.98	-6.77	-4.53	12.68	30.00	-17.32
	5690	138	17.09	23.98	-6.89	-4.53	12.56	30.00	-17.44
UNII-3	5775	155	14.14	30.00	-15.86	-3.36	10.78	36.00	-25.22
UNII-4	5885	171	14.29	-	-	-3.36	10.93	30.00	-19.07

Table 7-18. SISO ANT1 80MHz BW 802.11be (UNII) Maximum Conducted Output Power

5GHz WIFI (160MHz 802.11ac SISO ANT1)				Conducted Power Limit [dBm]	Conducted Power Margin [dB]	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 Power [dBm]						
UNII-1/2A	5250	50	12.48	23.98	-11.50	-3.44	9.04	30.00	-20.96
UNII-2C	5570	114	14.62	23.98	-9.36	-4.53	10.09	30.00	-19.91
UNII-3/4	5815	163	14.21	30.00	-15.79	-3.36	10.85	30.00	-19.15

Table 7-19. SISO ANT1 160MHz BW 802.11ac (UNII) Maximum Conducted Output Power

5GHz WIFI (160MHz 802.11ax SISO ANT1)				Conducted Power Limit [dBm]	Conducted Power Margin [dB]	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 Power [dBm]						
UNII-1/2A	5250	50	12.11	23.98	-11.87	-3.44	8.67	30.00	-21.33
UNII-2C	5570	114	14.63	23.98	-9.35	-4.53	10.10	30.00	-19.90
UNII-3/4	5815	163	14.09	30.00	-15.91	-3.36	10.73	30.00	-19.27

Table 7-20. SISO ANT1 160MHz BW 802.11ax (UNII) Maximum Conducted Output Power

5GHz WIFI (160MHz 802.11be SISO ANT1)				Conducted Power Limit [dBm]	Conducted Power Margin [dB]	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 Power [dBm]						
UNII-1/2A	5250	50	12.11	23.98	-11.87	-3.44	8.67	30.00	-21.33
UNII-2C	5570	114	14.56	23.98	-9.42	-4.53	10.03	30.00	-19.97
UNII-3/4	5815	163	14.09	30.00	-15.91	-3.36	10.73	30.00	-19.27

Table 7-21. SISO ANT1 160MHz BW 802.11be (UNII) Maximum Conducted Output Power

80MHz BW	Band	Freq [MHz]	Channel	Puncture Size	Avg Conducted Power (dBm)			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
					Puncture Case								
	93	92	90										
	1	5210	42	20MHz	9.41	9.56	9.53	23.98	-14.42	-3.52	6.04	30.0	-23.96
	2A	5290	58	20MHz	11.49	11.49	11.49	23.98	-12.49	-3.44	8.05	30.0	-21.95
2C	5530	106	20MHz	13.49	13.49	13.49	23.98	-10.49	-4.53	8.96	30.0	-21.04	
	5610	122	20MHz	17.53	17.59	17.72	23.98	-6.26	-4.53	13.19	30.0	-16.81	
	5690	138	20MHz	17.99	17.99	17.62	23.98	-5.99	-4.53	13.46	30.0	-16.54	
3	5775	155	20MHz	17.78	17.81	17.83	30	-12.17	-3.36	14.47	36.0	-21.53	
4	5855	171	20MHz	17.99	17.99	17.99	-	-	-3.75	14.24	30.0	-15.76	

Table 7-22. SISO ANT1 80MHz BW 802.11be (UNII) Maximum Conducted Output Power – 20MHz Puncture

FCC ID: A3LSMF966JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2504070040-07.A3L	Test Dates: 02/24/2025 - 05/05/2025	EUT Type: Portable Handset	Page 60 of 159

160MHz BW	Band	Freq [MHz]	Channel	Puncture Size	Avg Conducted Power (dBm)			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
					Puncture Case								
					1099	1098	1096						
					1078	1078	1078						
	1/2A	5250	50	20MHz	10.78	10.78	10.78	23.98	-13.20	-3.44	7.34	30.0	-22.66
	2C	5570	114	20MHz	13.84	13.92	13.92	23.98	-10.06	-4.53	9.39	30.0	-20.61
	3/4	5815	163	20MHz	14.88	14.81	14.85	-	-	-3.36	11.52	30.0	-18.48

Table 7-23. SISO ANT1 160MHz BW 802.11be (UNII) Maximum Conducted Output Power – 20MHz Puncture

160MHz BW	Band	Freq [MHz]	Channel	Puncture Size	Avg Conducted Power (dBm)			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
					Puncture Case								
					1095	1094	94						
	1/2A	5250	50	40MHz	10.65	10.62	10.70	23.98	-13.28	-3.44	7.26	30.0	-22.74
	2C	5570	114	40MHz	13.85	13.85	13.88	23.98	-10.1	-4.53	9.35	30.0	-20.65
3/4	5815	163	40MHz	14.85	14.80	14.81	-	-	-3.36	11.49	30.0	-18.51	

Table 7-24. SISO ANT1 160MHz BW 802.11be (UNII) Maximum Conducted Output Power – 40MHz Puncture

FCC ID: A3LSMF966JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2504070040-07.A3L	Test Dates: 02/24/2025 - 05/05/2025	EUT Type: Portable Handset	Page 61 of 159

SISO ANT2 Maximum Conducted Output Power Measurements

5GHz WIFI (20MHz 802.11a SISO ANT2)				Conducted Power Limit [dBm]	Conducted Power Margin [dB]	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 Power [dBm]						
UNII-1	30	36	17.36	23.98	-6.62	-4.06	13.30	30.00	-16.70
	30	40	17.31	23.98	-6.67	-4.06	13.25	30.00	-16.75
	20	44	17.31	23.98	-6.67	-4.06	13.25	30.00	-16.75
	40	48	17.16	23.98	-6.82	-4.06	13.10	30.00	-16.90
UNII-2A	30	52	17.42	23.98	-6.56	-3.59	13.83	30.00	-16.17
	30	56	17.38	23.98	-6.60	-3.59	13.79	30.00	-16.21
	30	60	17.41	23.98	-6.57	-3.59	13.82	30.00	-16.18
	20	64	17.13	23.98	-6.85	-3.59	13.54	30.00	-16.46
UNII-2C	30	100	17.74	23.98	-6.24	-4.19	13.55	30.00	-16.45
	30	120	17.36	23.98	-6.62	-4.19	13.17	30.00	-16.83
	20	124	17.22	23.98	-6.76	-4.19	13.03	30.00	-16.97
	20	144	17.39	23.98	-6.59	-4.19	13.20	30.00	-16.80
UNII-3	45	149	17.48	30.00	-12.52	-6.39	11.09	36.00	-24.91
	35	157	17.47	30.00	-12.53	-6.39	11.08	36.00	-24.92
	25	165	17.16	30.00	-12.84	-6.39	10.77	36.00	-25.23
UNII-4	45	169	17.25	-	-	-7.00	10.25	30.00	-19.75
	35	173	17.22	-	-	-7.00	10.22	30.00	-19.78
	35	177	17.29	-	-	-7.00	10.29	30.00	-19.71

Table 7-25. SISO ANT2 20MHz BW 802.11a (UNII) Maximum Conducted Output Power

5GHz WIFI (20MHz 802.11n SISO ANT2)				Conducted Power Limit [dBm]	Conducted Power Margin [dB]	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 Power [dBm]						
UNII-1	30	36	17.41	23.98	-6.57	-4.06	13.35	30.00	-16.65
	30	40	17.45	23.98	-6.53	-4.06	13.39	30.00	-16.61
	20	44	17.45	23.98	-6.53	-4.06	13.39	30.00	-16.61
	40	48	17.26	23.98	-6.72	-4.06	13.20	30.00	-16.80
UNII-2A	30	52	17.07	23.98	-6.91	-3.59	13.48	30.00	-16.52
	30	56	17.03	23.98	-6.95	-3.59	13.44	30.00	-16.56
	30	60	17.47	23.98	-6.51	-3.59	13.88	30.00	-16.12
	20	64	17.16	23.98	-6.82	-3.59	13.57	30.00	-16.43
UNII-2C	30	100	17.25	23.98	-6.73	-4.19	13.06	30.00	-16.94
	30	120	17.48	23.98	-6.50	-4.19	13.29	30.00	-16.71
	20	124	17.30	23.98	-6.68	-4.19	13.11	30.00	-16.89
	20	144	17.49	23.98	-6.49	-4.19	13.30	30.00	-16.70
UNII-3	45	149	17.14	30.00	-12.86	-6.39	10.75	36.00	-25.25
	35	157	17.01	30.00	-12.99	-6.39	10.62	36.00	-25.38
	25	165	17.28	30.00	-12.72	-6.39	10.89	36.00	-25.11
UNII-4	45	169	17.35	-	-	-7.00	10.35	30.00	-19.65
	35	173	17.33	-	-	-7.00	10.33	30.00	-19.67
	35	177	17.43	-	-	-7.00	10.43	30.00	-19.57

Table 7-26. SISO ANT2 20MHz BW 802.11n (UNII) Maximum Conducted Output Power

FCC ID: A3LSMF966JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2504070040-07.A3L	Test Dates: 02/24/2025 - 05/05/2025	EUT Type: Portable Handset	Page 62 of 159

5GHz WIFI (20MHz 802.11ac SISO ANT2)				Conducted Power Limit [dBm]	Conducted Power Margin [dB]	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 Power [dBm]						
UNII-1	30	36	17.42	23.98	-6.56	-4.06	13.36	30.00	-16.64
	40	40	17.43	23.98	-6.55	-4.06	13.37	30.00	-16.63
	20	44	17.41	23.98	-6.57	-4.06	13.35	30.00	-16.65
	40	48	17.22	23.98	-6.76	-4.06	13.16	30.00	-16.84
UNII-2A	50	52	17.04	23.98	-6.94	-3.59	13.45	30.00	-16.55
	30	56	17.48	23.98	-6.50	-3.59	13.89	30.00	-16.11
	70	60	17.50	23.98	-6.48	-3.59	13.91	30.00	-16.09
	20	64	17.14	23.98	-6.84	-3.59	13.55	30.00	-16.45
UNII-2C	70	100	17.22	23.98	-6.76	-4.19	13.03	30.00	-16.97
	70	120	17.49	23.98	-6.49	-4.19	13.30	30.00	-16.70
	20	124	17.31	23.98	-6.67	-4.19	13.12	30.00	-16.88
	20	144	17.44	23.98	-6.54	-4.19	13.25	30.00	-16.75
UNII-3	45	149	17.08	30.00	-12.92	-6.39	10.69	36.00	-25.31
	35	157	17.00	30.00	-13.00	-6.39	10.61	36.00	-25.39
	25	165	17.20	30.00	-12.80	-6.39	10.81	36.00	-25.19
UNII-4	45	169	17.31	-	-	-7.00	10.31	30.00	-19.69
	55	173	17.33	-	-	-7.00	10.33	30.00	-19.67
	35	177	17.42	-	-	-7.00	10.42	30.00	-19.58

Table 7-27. SISO ANT2 20MHz BW 802.11ac (UNII) Maximum Conducted Output Power

5GHz WIFI (20MHz 802.11ax SISO ANT2)				Conducted Power Limit [dBm]	Conducted Power Margin [dB]	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 Power [dBm]						
UNII-1	30	36	17.14	23.98	-6.84	-4.06	13.08	30.00	-16.92
	40	40	17.13	23.98	-6.85	-4.06	13.07	30.00	-16.93
	20	44	17.07	23.98	-6.91	-4.06	13.01	30.00	-16.99
	40	48	17.53	23.98	-6.45	-4.06	13.47	30.00	-16.53
UNII-2A	50	52	17.32	23.98	-6.66	-3.59	13.73	30.00	-16.27
	30	56	17.29	23.98	-6.69	-3.59	13.70	30.00	-16.30
	70	60	17.28	23.98	-6.70	-3.59	13.69	30.00	-16.31
	20	64	17.45	23.98	-6.53	-3.59	13.86	30.00	-16.14
UNII-2C	70	100	17.46	23.98	-6.52	-4.19	13.27	30.00	-16.73
	70	120	17.13	23.98	-6.85	-4.19	12.94	30.00	-17.06
	20	124	17.55	23.98	-6.43	-4.19	13.36	30.00	-16.64
	20	144	17.19	23.98	-6.79	-4.19	13.00	30.00	-17.00
UNII-3	45	149	17.36	30.00	-12.64	-6.39	10.97	36.00	-25.03
	35	157	17.27	30.00	-12.73	-6.39	10.88	36.00	-25.12
	25	165	17.47	30.00	-12.53	-6.39	11.08	36.00	-24.92
UNII-4	45	169	17.52	-	-	-7.00	10.52	30.00	-19.48
	55	173	17.14	-	-	-7.00	10.14	30.00	-19.86
	35	177	17.11	-	-	-7.00	10.11	30.00	-19.89

Table 7-28. SISO ANT2 20MHz BW 802.11ax (UNII) Maximum Conducted Output Power

FCC ID: A3LSMF966JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2504070040-07.A3L	Test Dates: 02/24/2025 - 05/05/2025	EUT Type: Portable Handset	Page 63 of 159

5GHz WIFI (20MHz 802.11be SISO ANT2)				Conducted Power Limit [dBm]	Conducted Power Margin [dB]	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 Power [dBm]						
UNII-1	30	36	17.12	23.98	-6.86	-4.06	13.06	30.00	-16.94
	30	40	17.08	23.98	-6.90	-4.06	13.02	30.00	-16.98
	20	44	17.09	23.98	-6.89	-4.06	13.03	30.00	-16.97
	40	48	17.45	23.98	-6.53	-4.06	13.39	30.00	-16.61
UNII-2A	50	52	17.32	23.98	-6.66	-3.59	13.73	30.00	-16.27
	30	56	17.30	23.98	-6.68	-3.59	13.71	30.00	-16.29
	70	60	17.28	23.98	-6.70	-3.59	13.69	30.00	-16.31
	20	64	17.43	23.98	-6.55	-3.59	13.84	30.00	-16.16
UNII-2C	70	100	17.45	23.98	-6.53	-4.19	13.26	30.00	-16.74
	70	120	17.12	23.98	-6.86	-4.19	12.93	30.00	-17.07
	20	124	17.52	23.98	-6.46	-4.19	13.33	30.00	-16.67
	20	144	17.23	23.98	-6.75	-4.19	13.04	30.00	-16.96
UNII-3	45	149	17.34	30.00	-12.66	-6.39	10.95	36.00	-25.05
	35	157	17.25	30.00	-12.75	-6.39	10.86	36.00	-25.14
	25	165	17.45	30.00	-12.55	-6.39	11.06	36.00	-24.94
UNII-4	45	169	17.55	-	-	-7.00	10.55	30.00	-19.45
	35	173	17.48	-	-	-7.00	10.48	30.00	-19.52
	35	177	17.10	-	-	-7.00	10.10	30.00	-19.90

Table 7-29. SISO ANT2 20MHz BW 802.11be (UNII) Maximum Conducted Output Power

5GHz WIFI (40MHz 802.11n SISO ANT2)				Conducted Power Limit [dBm]	Conducted Power Margin [dB]	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 Power [dBm]						
UNII-1	5190	38	9.54	23.98	-14.44	-3.88	5.66	30.00	-24.34
	5230	46	17.31	23.98	-6.67	-3.88	13.43	30.00	-16.57
UNII-2A	5270	54	17.36	23.98	-6.62	-3.44	13.92	30.00	-16.08
	5310	62	11.12	23.98	-12.86	-3.44	7.68	30.00	-22.32
UNII-2C	5510	102	12.99	23.98	-10.99	-4.53	8.46	30.00	-21.54
	5590	118	17.24	23.98	-6.74	-4.53	12.71	30.00	-17.29
	5630	126	17.12	23.98	-6.86	-4.53	12.59	30.00	-17.41
	5710	142	17.38	23.98	-6.60	-4.53	12.85	30.00	-17.15
UNII-3	5755	151	17.45	30.00	-12.55	-3.36	14.09	36.00	-21.91
	5795	159	17.32	30.00	-12.68	-3.36	13.96	36.00	-22.04
UNII-4	5835	167	17.05	-	-	-6.39	10.66	30.00	-19.34
	5875	175	17.21	-	-	-7.00	10.21	30.00	-19.79

Table 7-30. SISO ANT2 40MHz BW 802.11n (UNII) Maximum Conducted Output Power

5GHz WIFI (40MHz 802.11ac SISO ANT2)				Conducted Power Limit [dBm]	Conducted Power Margin [dB]	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 Power [dBm]						
UNII-1	5190	38	9.62	23.98	-14.36	-3.88	5.74	30.00	-24.26
	5230	46	17.52	23.98	-6.46	-3.88	13.64	30.00	-16.36
UNII-2A	5270	54	17.11	23.98	-6.87	-3.44	13.67	30.00	-16.33
	5310	62	11.04	23.98	-12.94	-3.44	7.60	30.00	-22.40
UNII-2C	5510	102	13.13	23.98	-10.85	-4.53	8.60	30.00	-21.40
	5590	118	17.28	23.98	-6.70	-4.53	12.75	30.00	-17.25
	5630	126	17.34	23.98	-6.64	-4.53	12.81	30.00	-17.19
	5710	142	17.98	23.98	-6.00	-4.53	13.45	30.00	-16.55
UNII-3	5755	151	17.14	30.00	-12.86	-3.36	13.78	36.00	-22.22
	5795	159	17.26	30.00	-12.74	-3.36	13.90	36.00	-22.10
UNII-4	5835	167	17.24	-	-	-6.39	10.85	30.00	-19.15
	5875	175	17.14	-	-	-7.00	10.14	30.00	-19.86

Table 7-31. SISO ANT2 40MHz BW 802.11ac (UNII) Maximum Conducted Output Power

FCC ID: A3LSMF966JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2504070040-07.A3L	Test Dates: 02/24/2025 - 05/05/2025	EUT Type: Portable Handset	Page 64 of 159

5GHz WIFI (40MHz 802.11ax SISO ANT2)				Conducted Power Limit [dBm]	Conducted Power Margin [dB]	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 Power [dBm]						
UNII-1	5190	38	9.21	23.98	-14.77	-3.88	5.33	30.00	-24.67
	5230	46	17.44	23.98	-6.54	-3.88	13.56	30.00	-16.44
UNII-2A	5270	54	17.51	23.98	-6.47	-3.44	14.07	30.00	-15.93
	5310	62	10.62	23.98	-13.36	-3.44	7.18	30.00	-22.82
UNII-2C	5510	102	12.17	23.98	-11.81	-4.53	7.64	30.00	-22.36
	5590	118	17.09	23.98	-6.89	-4.53	12.56	30.00	-17.44
	5630	126	17.21	23.98	-6.77	-4.53	12.68	30.00	-17.32
	5710	142	17.14	23.98	-6.84	-4.53	12.61	30.00	-17.39
UNII-3	5755	151	17.30	30.00	-12.70	-3.36	13.94	36.00	-22.06
	5795	159	17.15	30.00	-12.85	-3.36	13.79	36.00	-22.21
UNII-4	5835	167	17.21	-	-	-6.39	10.82	30.00	-19.18
	5875	175	17.40	-	-	-7.00	10.40	30.00	-19.60

Table 7-32. SISO ANT2 40MHz BW 802.11ax (UNII) Maximum Conducted Output Power

5GHz WIFI (20MHz 802.11be SISO ANT2)				Conducted Power Limit [dBm]	Conducted Power Margin [dB]	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 Power [dBm]						
UNII-1	5190	38	9.07	23.98	-14.91	-3.88	5.19	30.00	-24.81
	5230	46	17.30	23.98	-6.68	-3.88	13.42	30.00	-16.58
UNII-2A	5270	54	17.31	23.98	-6.67	-3.44	13.87	30.00	-16.13
	5310	62	10.62	23.98	-13.36	-3.44	7.18	30.00	-22.82
UNII-2C	5510	102	12.66	23.98	-11.32	-4.53	8.13	30.00	-21.87
	5590	118	17.15	23.98	-6.83	-4.53	12.62	30.00	-17.38
	5630	126	17.07	23.98	-6.91	-4.53	12.54	30.00	-17.46
	5710	142	17.32	23.98	-6.66	-4.53	12.79	30.00	-17.21
UNII-3	5755	151	17.37	30.00	-12.63	-3.36	14.01	36.00	-21.99
	5795	159	17.25	30.00	-12.75	-3.36	13.89	36.00	-22.11
UNII-4	5835	167	17.57	-	-	-6.39	11.18	30.00	-18.82
	5875	175	17.13	-	-	-7.00	10.13	30.00	-19.87

Table 7-33. SISO ANT2 40MHz BW 802.11be (UNII) Maximum Conducted Output Power

5GHz WIFI (80MHz 802.11ac SISO ANT2)				Conducted Power Limit [dBm]	Conducted Power Margin [dB]	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 Power [dBm]						
UNII-1	5210	42	10.55	23.98	-13.43	-4.06	6.49	30.00	-23.51
UNII-2A	5290	58	10.61	23.98	-13.37	-3.59	7.02	30.00	-22.98
UNII-2C	5530	106	13.62	23.98	-10.36	-4.19	9.43	30.00	-20.57
	5610	122	17.47	23.98	-6.51	-4.19	13.28	30.00	-16.72
	5690	138	17.52	23.98	-6.46	-4.19	13.33	30.00	-16.67
UNII-3	5775	155	14.10	30.00	-15.90	-6.39	7.71	36.00	-28.29
UNII-4	5885	171	14.20	-	-	-6.39	7.81	30.00	-22.19

Table 7-34. SISO ANT2 80MHz BW 802.11ac (UNII) Maximum Conducted Output Power

FCC ID: A3LSMF966JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2504070040-07.A3L	Test Dates: 02/24/2025 - 05/05/2025	EUT Type: Portable Handset	Page 65 of 159

5GHz WIFI (80MHz 802.11ax SISO ANT2)				Conducted Power Limit [dBm]	Conducted Power Margin [dB]	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 Power [dBm]						
UNII-1	5210	42	10.42	23.98	-13.56	-4.06	6.36	30.00	-23.64
UNII-2A	5290	58	10.39	23.98	-13.59	-3.59	6.80	30.00	-23.20
UNII-2C	5530	106	13.29	23.98	-10.69	-4.19	9.10	30.00	-20.90
	5610	122	17.42	23.98	-6.56	-4.19	13.23	30.00	-16.77
	5690	138	17.29	23.98	-6.69	-4.19	13.10	30.00	-16.90
UNII-3	5775	155	14.21	30.00	-15.79	-6.39	7.82	36.00	-28.18
UNII-4	5885	171	14.11	-	-	-6.39	7.72	30.00	-22.28

Table 7-35. SISO ANT2 80MHz BW 802.11ax (UNII) Maximum Conducted Output Power

5GHz WIFI (80MHz 802.11be SISO ANT2)				Conducted Power Limit [dBm]	Conducted Power Margin [dB]	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 Power [dBm]						
UNII-1	5210	42	10.42	23.98	-13.56	-4.06	6.36	30.00	-23.64
UNII-2A	5290	58	10.36	23.98	-13.62	-3.59	6.77	30.00	-23.23
UNII-2C	5530	106	13.47	23.98	-10.51	-4.19	9.28	30.00	-20.72
	5610	122	17.05	23.98	-6.93	-4.19	12.86	30.00	-17.14
	5690	138	17.33	23.98	-6.65	-4.19	13.14	30.00	-16.86
UNII-3	5775	155	14.49	30.00	-15.51	-6.39	8.10	36.00	-27.90
UNII-4	5885	171	14.17	-	-	-6.39	7.78	30.00	-22.22

Table 7-36. SISO ANT2 80MHz BW 802.11be (UNII) Maximum Conducted Output Power

5GHz WIFI (160MHz 802.11ac SISO ANT2)				Conducted Power Limit [dBm]	Conducted Power Margin [dB]	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 Power [dBm]						
UNII-1/2A	5250	50	12.09	23.98	-11.89	-3.59	8.50	30.00	-21.50
UNII-2C	5570	114	14.59	23.98	-9.39	-4.19	10.40	30.00	-19.60
UNII-3/4	5815	163	14.19	30.00	-15.81	-6.39	7.80	30.00	-22.20

Table 7-37. SISO ANT2 160MHz BW 802.11ac (UNII) Maximum Conducted Output Power

5GHz WIFI (160MHz 802.11ax SISO ANT2)				Conducted Power Limit [dBm]	Conducted Power Margin [dB]	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 Power [dBm]						
UNII-1/2A	5250	50	12.05	23.98	-11.93	-3.59	8.46	30.00	-21.54
UNII-2C	5570	114	14.58	23.98	-9.40	-4.19	10.39	30.00	-19.61
UNII-3/4	5815	163	14.07	30.00	-15.93	-6.39	7.68	30.00	-22.32

Table 7-38. SISO ANT2 160MHz BW 802.11ax (UNII) Maximum Conducted Output Power

5GHz WIFI (160MHz 802.11be SISO ANT2)				Conducted Power Limit [dBm]	Conducted Power Margin [dB]	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 Power [dBm]						
UNII-1/2A	5250	50	12.03	23.98	-11.95	-3.59	8.44	30.00	-21.56
UNII-2C	5570	114	14.64	23.98	-9.34	-4.19	10.45	30.00	-19.55
UNII-3/4	5815	163	14.08	30.00	-15.92	-6.39	7.69	30.00	-22.31

Table 7-39. SISO ANT2 160MHz BW 802.11be (UNII) Maximum Conducted Output Power

80MHz BW	Band	Freq [MHz]	Channel	Puncture Size	Avg Conducted Power (dBm)			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
					Puncture Case								
					93	92	90						
	1	5210	42	20MHz	9.99	9.94	9.92	23.98	-13.99	-4.06	5.93	30.0	-24.07
	2A	5290	58	20MHz	11.49	11.49	11.47	23.98	-12.49	-3.59	7.90	30.0	-22.10
		5530	106	20MHz	13.13	13.18	13.39	23.98	-10.59	-4.19	9.20	30.0	-20.80
	2C	5610	122	20MHz	17.80	17.92	17.94	23.98	-6.04	-4.19	13.75	30.0	-16.25
		5690	138	20MHz	17.81	17.90	17.99	23.98	-5.99	-4.19	13.80	30.0	-16.20
	3	5775	155	20MHz	17.83	17.95	17.96	30	-12.04	-6.39	11.57	36.0	-24.43
	4	5855	171	20MHz	17.99	17.99	17.99	-	-	-7.00	10.99	30.0	-19.01

Table 7-40. SISO ANT2 80MHz BW 802.11be (UNII) Maximum Conducted Output Power – 20MHz Puncture

FCC ID: A3LSMF966JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2504070040-07.A3L	Test Dates: 02/24/2025 - 05/05/2025	EUT Type: Portable Handset	Page 66 of 159

160MHz BW	Band	Freq [MHz]	Channel	Puncture Size	Avg Conducted Power (dBm)			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
					Puncture Case								
					1099	1098	1096						
					1/2A	5250	50	20MHz	10.81				
2C	5570	114	20MHz	13.28	13.29	13.21	23.98	-10.69	-4.19	9.10	30.0	-20.90	
3/4	5815	163	20MHz	14.65	14.60	14.62	-	-	-6.39	8.26	30.0	-21.74	

Table 7-41. SISO ANT2 160MHz BW 802.11be (UNII) Maximum Conducted Output Power – 20MHz Puncture

160MHz BW	Band	Freq [MHz]	Channel	Puncture Size	Avg Conducted Power (dBm)			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
					Puncture Case								
					1095	1094	94						
	1/2A	5250	50	40MHz	10.84	10.81	10.67	23.98	-13.14	-3.59	7.25	30.0	-22.75
	2C	5570	114	40MHz	13.21	13.16	13.28	23.98	-10.7	-4.19	9.09	30.0	-20.91
	3/4	5815	163	40MHz	14.56	14.53	14.52	-	-	-6.39	8.17	30.0	-21.83

Table 7-42. SISO ANT2 160MHz BW 802.11be (UNII) Maximum Conducted Output Power – 40MHz Puncture

FCC ID: A3LSMF966JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2504070040-07.A3L	Test Dates: 02/24/2025 - 05/05/2025	EUT Type: Portable Handset	Page 67 of 159

MIMO Maximum Conducted Output Power Measurements

5GHz WIFI (20MHz 802.11a MIMO)						Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]								
			ANT1	ANT2	MIMO						
UNII-1	5180	36	17.92	17.75	20.85	23.98	-3.13	-0.78	20.07	30.00	-9.93
	5200	40	17.64	17.28	20.47	23.98	-3.51	-0.78	19.69	30.00	-10.31
	5220	44	17.67	17.24	20.47	23.98	-3.51	-0.78	19.69	30.00	-10.31
	5240	48	17.99	17.37	20.70	23.98	-3.28	-0.78	19.92	30.00	-10.08
UNII-2A	5260	52	17.49	16.58	20.07	23.98	-3.91	-0.50	19.57	30.00	-10.43
	5280	56	17.53	16.42	20.02	23.98	-3.96	-0.50	19.52	30.00	-10.48
	5300	60	17.43	16.58	20.04	23.98	-3.94	-0.50	19.54	30.00	-10.46
	5320	64	17.45	16.86	20.18	23.98	-3.80	-0.50	19.68	30.00	-10.32
UNII-2C	5500	100	17.79	16.94	20.40	23.98	-3.58	-1.35	19.05	30.00	-10.95
	5600	120	16.96	17.43	20.21	23.98	-3.77	-1.35	18.86	30.00	-11.14
	5620	124	17.14	17.40	20.28	23.98	-3.70	-1.35	18.93	30.00	-11.07
	5720	144	16.82	17.38	20.12	23.98	-3.86	-1.35	18.77	30.00	-11.23
UNII-3	5745	149	16.98	17.26	20.13	30.00	-9.87	-1.73	18.40	36.00	-17.60
	5785	157	16.89	17.30	20.11	30.00	-9.89	-1.73	18.38	36.00	-17.62
	5825	165	16.79	17.47	20.15	30.00	-9.85	-1.73	18.42	36.00	-17.58
UNII-4	5845	169	16.92	17.63	20.30	-	-	-2.21	18.09	30.00	-11.91
	5865	173	16.87	17.49	20.20	-	-	-2.21	17.99	30.00	-12.01
	5885	177	16.91	17.56	20.26	-	-	-2.21	18.04	30.00	-11.96

Table 7-43. MIMO 20MHz BW 802.11a (UNII) Maximum Conducted Output Power

5GHz WIFI (20MHz 802.11n MIMO)						Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]								
			ANT1	ANT2	MIMO						
UNII-1	5180	36	17.22	17.01	20.13	23.98	-3.85	-0.78	19.35	30.00	-10.65
	5200	40	17.46	17.05	20.27	23.98	-3.71	-0.78	19.49	30.00	-10.51
	5220	44	17.54	17.07	20.32	23.98	-3.66	-0.78	19.54	30.00	-10.46
	5240	48	17.74	17.15	20.47	23.98	-3.51	-0.78	19.69	30.00	-10.31
UNII-2A	5260	52	17.79	16.86	20.36	23.98	-3.62	-0.50	19.86	30.00	-10.14
	5280	56	17.82	16.77	20.34	23.98	-3.64	-0.50	19.84	30.00	-10.16
	5300	60	17.67	16.93	20.33	23.98	-3.65	-0.50	19.83	30.00	-10.17
	5320	64	17.67	17.17	20.44	23.98	-3.54	-0.50	19.94	30.00	-10.06
UNII-2C	5500	100	17.54	16.81	20.20	23.98	-3.78	-1.35	18.85	30.00	-11.15
	5600	120	16.76	17.35	20.08	23.98	-3.90	-1.35	18.73	30.00	-11.27
	5620	124	17.11	17.29	20.21	23.98	-3.77	-1.35	18.86	30.00	-11.14
	5720	144	17.07	17.67	20.39	23.98	-3.59	-1.35	19.04	30.00	-10.96
UNII-3	5745	149	17.42	17.57	20.51	30.00	-9.49	-1.73	18.77	36.00	-17.23
	5785	157	17.38	17.49	20.45	30.00	-9.55	-1.73	18.71	36.00	-17.29
	5825	165	17.10	17.55	20.34	30.00	-9.66	-1.73	18.61	36.00	-17.39
UNII-4	5845	169	17.13	17.70	20.43	-	-	-2.21	18.22	30.00	-11.78
	5865	173	17.09	17.61	20.37	-	-	-2.21	18.15	30.00	-11.85
	5885	177	17.08	17.69	20.41	-	-	-2.21	18.19	30.00	-11.81

Table 7-44. MIMO 20MHz BW 802.11n (UNII) Maximum Conducted Output Power

FCC ID: A3LSMF966JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2504070040-07.A3L	Test Dates: 02/24/2025 - 05/05/2025	EUT Type: Portable Handset	Page 68 of 159

5GHz WIFI (20MHz 802.11ac MIMO)						Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]								
			ANT1	ANT2	MIMO						
UNII-1	5180	36	17.15	17.04	20.11	23.98	-3.87	-0.78	19.33	30.00	-10.67
	5200	40	17.34	17.08	20.22	23.98	-3.76	-0.78	19.44	30.00	-10.56
	5220	44	17.46	17.12	20.30	23.98	-3.68	-0.78	19.52	30.00	-10.48
	5240	48	17.65	17.29	20.48	23.98	-3.50	-0.78	19.70	30.00	-10.30
UNII-2A	5260	52	17.69	17.04	20.39	23.98	-3.59	-0.50	19.89	30.00	-10.11
	5280	56	17.71	16.88	20.33	23.98	-3.65	-0.50	19.83	30.00	-10.17
	5300	60	17.58	17.01	20.31	23.98	-3.67	-0.50	19.81	30.00	-10.19
	5320	64	17.62	17.36	20.50	23.98	-3.48	-0.50	20.00	30.00	-10.00
UNII-2C	5500	100	17.43	17.02	20.24	23.98	-3.74	-1.35	18.89	30.00	-11.11
	5600	120	16.76	17.52	20.17	23.98	-3.81	-1.35	18.82	30.00	-11.18
	5620	124	16.95	17.49	20.24	23.98	-3.74	-1.35	18.89	30.00	-11.11
	5720	144	17.13	17.71	20.44	23.98	-3.54	-1.35	19.09	30.00	-10.91
UNII-3	5745	149	17.10	17.60	20.37	30.00	-9.63	-1.73	18.63	36.00	-17.37
	5785	157	17.15	17.51	20.34	30.00	-9.66	-1.73	18.61	36.00	-17.39
	5825	165	17.10	17.60	20.37	30.00	-9.63	-1.73	18.63	36.00	-17.37
	5845	169	17.11	17.74	20.45	-	-	-2.21	18.23	30.00	-11.77
UNII-4	5865	173	17.08	17.66	20.39	-	-	-2.21	18.18	30.00	-11.82
	5885	177	17.05	17.67	20.38	-	-	-2.21	18.17	30.00	-11.83

Table 7-45. MIMO 20MHz BW 802.11ac (UNII) Maximum Conducted Output Power

5GHz WIFI (20MHz 802.11ax MIMO)						Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]								
			ANT1	ANT2	MIMO						
UNII-1	5180	36	17.77	17.52	20.66	23.98	-3.32	-0.78	19.88	30.00	-10.12
	5200	40	17.44	17.06	20.26	23.98	-3.72	-0.78	19.48	30.00	-10.52
	5220	44	17.61	16.97	20.31	23.98	-3.67	-0.78	19.53	30.00	-10.47
	5240	48	17.70	17.09	20.42	23.98	-3.56	-0.78	19.64	30.00	-10.36
UNII-2A	5260	52	17.78	16.82	20.34	23.98	-3.64	-0.50	19.84	30.00	-10.16
	5280	56	17.78	16.70	20.28	23.98	-3.70	-0.50	19.78	30.00	-10.22
	5300	60	17.66	16.81	20.27	23.98	-3.71	-0.50	19.77	30.00	-10.23
	5320	64	17.65	17.18	20.43	23.98	-3.55	-0.50	19.93	30.00	-10.07
UNII-2C	5500	100	17.43	16.90	20.18	23.98	-3.80	-1.35	18.83	30.00	-11.17
	5600	120	17.26	17.85	20.58	23.98	-3.40	-1.35	19.23	30.00	-10.77
	5620	124	17.51	17.78	20.66	23.98	-3.32	-1.35	19.31	30.00	-10.69
	5720	144	17.04	17.69	20.39	23.98	-3.59	-1.35	19.04	30.00	-10.96
UNII-3	5745	149	17.17	17.54	20.37	30.00	-9.63	-1.73	18.64	36.00	-17.36
	5785	157	17.10	17.55	20.34	30.00	-9.66	-1.73	18.61	36.00	-17.39
	5825	165	17.01	17.58	20.31	30.00	-9.69	-1.73	18.58	36.00	-17.42
UNII-4	5845	169	17.02	17.70	20.38	-	-	-2.21	18.17	30.00	-11.83
	5865	173	16.97	17.60	20.31	-	-	-2.21	18.09	30.00	-11.91
	5885	177	16.94	17.68	20.34	-	-	-2.21	18.12	30.00	-11.88

Table 7-46. MIMO 20MHz BW 802.11ax (UNII) Maximum Conducted Output Power

5GHz WIFI (20MHz 802.11be MIMO)						Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]								
			ANT1	ANT2	MIMO						
UNII-1	5180	36	17.65	17.44	20.56	23.98	-3.42	-0.78	19.78	30.00	-10.22
	5200	40	17.27	16.95	20.12	23.98	-3.86	-0.78	19.34	30.00	-10.66
	5220	44	17.45	17.09	20.28	23.98	-3.70	-0.78	19.50	30.00	-10.50
	5240	48	17.59	17.10	20.36	23.98	-3.62	-0.78	19.58	30.00	-10.42
UNII-2A	5260	52	17.72	16.86	20.32	23.98	-3.66	-0.50	19.82	30.00	-10.18
	5280	56	17.65	16.70	20.21	23.98	-3.77	-0.50	19.71	30.00	-10.29
	5300	60	17.52	16.83	20.20	23.98	-3.78	-0.50	19.70	30.00	-10.30
	5320	64	17.52	17.11	20.33	23.98	-3.65	-0.50	19.83	30.00	-10.17
UNII-2C	5500	100	17.28	16.84	20.08	23.98	-3.90	-1.35	18.73	30.00	-11.27
	5600	120	17.21	17.84	20.55	23.98	-3.43	-1.35	19.20	30.00	-10.80
	5620	124	17.40	17.79	20.61	23.98	-3.37	-1.35	19.26	30.00	-10.74
	5720	144	16.97	17.68	20.35	23.98	-3.63	-1.35	19.00	30.00	-11.00
UNII-3	5745	149	17.12	17.48	20.31	30.00	-9.69	-1.73	18.58	36.00	-17.42
	5785	157	17.03	17.49	20.28	30.00	-9.72	-1.73	18.54	36.00	-17.46
	5825	165	16.95	17.50	20.24	30.00	-9.76	-1.73	18.51	36.00	-17.49
UNII-4	5845	169	17.11	17.59	20.37	-	-	-2.21	18.15	30.00	-11.85
	5865	173	16.94	17.51	20.24	-	-	-2.21	18.03	30.00	-11.97
	5885	177	16.95	17.60	20.30	-	-	-2.21	18.08	30.00	-11.92

Table 7-47. MIMO 20MHz BW 802.11be (UNII) Maximum Conducted Output Power

FCC ID: A3LSMF966JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2504070040-07.A3L	Test Dates: 02/24/2025 - 05/05/2025	EUT Type: Portable Handset	Page 69 of 159

5GHz WIFI (40MHz 802.11n MIMO)						Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]								
			ANT1	ANT2	MIMO						
UNII-1	90	38	9.42	9.72	12.58	23.98	-11.40	-0.78	11.80	30.00	-18.20
	130	46	17.52	17.11	20.33	23.98	-3.65	-0.78	19.55	30.00	-10.45
UNII-2A	170	54	17.70	16.89	20.32	23.98	-3.66	-0.50	19.82	30.00	-10.18
	110	62	10.62	11.41	14.04	23.98	-9.94	-0.50	13.54	30.00	-16.46
UNII-2C	110	102	12.59	12.92	15.77	23.98	-8.21	-1.35	14.42	30.00	-15.58
	190	118	17.32	17.89	20.62	23.98	-3.36	-1.35	19.27	30.00	-10.73
	130	126	17.10	17.45	20.29	23.98	-3.69	-1.35	18.94	30.00	-11.06
	110	142	17.19	17.59	20.40	23.98	-3.58	-1.35	19.05	30.00	-10.95
UNII-3	155	151	17.32	17.64	20.49	30.00	-9.51	-1.73	18.76	36.00	-17.24
	195	159	17.12	17.51	20.33	30.00	-9.67	-1.73	18.60	36.00	-17.40
UNII-4	135	167	17.12	17.59	20.37	-	-	-1.73	18.64	30.00	-11.36
	175	175	17.11	17.68	20.41	-	-	-2.21	18.20	30.00	-11.80

Table 7-48. MIMO 40MHz BW 802.11n (UNII) Maximum Conducted Output Power

5GHz WIFI (40MHz 802.11ac MIMO)						Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]								
			ANT1	ANT2	MIMO						
UNII-1	90	38	9.39	9.66	12.54	23.98	-11.44	-0.78	11.76	30.00	-18.24
	130	46	17.96	17.26	20.63	23.98	-3.35	-0.78	19.85	30.00	-10.15
UNII-2A	170	54	17.86	16.74	20.35	23.98	-3.63	-0.50	19.85	30.00	-10.15
	110	62	10.71	11.39	14.07	23.98	-9.91	-0.50	13.57	30.00	-16.43
UNII-2C	110	102	12.79	13.48	16.16	23.98	-7.82	-1.35	14.81	30.00	-15.19
	190	118	17.77	17.18	20.50	23.98	-3.48	-1.35	19.15	30.00	-10.85
	130	126	17.58	16.84	20.24	23.98	-3.74	-1.35	18.89	30.00	-11.11
	110	142	17.51	16.86	20.21	23.98	-3.77	-1.35	18.86	30.00	-11.14
UNII-3	155	151	17.89	17.22	20.58	30.00	-9.42	-1.73	18.85	36.00	-17.15
	195	159	17.82	17.10	20.49	30.00	-9.51	-1.73	18.76	36.00	-17.24
UNII-4	135	167	17.76	17.36	20.57	-	-	-1.73	18.84	30.00	-11.16
	175	175	17.93	17.49	20.72	-	-	-2.21	18.51	30.00	-11.49

Table 7-49. MIMO 40MHz BW 802.11ac (UNII) Maximum Conducted Output Power

5GHz WIFI (40MHz 802.11ax MIMO)						Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]								
			ANT1	ANT2	MIMO						
UNII-1	90	38	9.22	9.45	12.35	23.98	-11.63	-0.78	11.57	30.00	-18.43
	130	46	17.24	16.89	20.08	23.98	-3.90	-0.78	19.30	30.00	-10.70
UNII-2A	170	54	17.38	16.61	20.02	23.98	-3.96	-0.50	19.52	30.00	-10.48
	110	62	10.62	10.77	13.71	23.98	-10.27	-0.50	13.21	30.00	-16.79
UNII-2C	110	102	12.64	12.82	15.74	23.98	-8.24	-1.35	14.39	30.00	-15.61
	190	118	16.94	17.60	20.29	23.98	-3.69	-1.35	18.94	30.00	-11.06
	130	126	17.17	17.72	20.46	23.98	-3.52	-1.35	19.11	30.00	-10.89
	110	142	16.76	17.30	20.05	23.98	-3.93	-1.35	18.70	30.00	-11.30
UNII-3	155	151	16.93	17.39	20.18	30.00	-9.82	-1.73	18.45	36.00	-17.55
	195	159	16.71	17.33	20.04	30.00	-9.96	-1.73	18.31	36.00	-17.69
UNII-4	135	167	16.79	17.31	20.07	-	-	-1.73	18.34	30.00	-11.66
	175	175	16.65	17.39	20.05	-	-	-2.21	17.83	30.00	-12.17

Table 7-50. MIMO 40MHz BW 802.11ax (UNII) Maximum Conducted Output Power

5GHz WIFI (40MHz 802.11be MIMO)						Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]								
			ANT1	ANT2	MIMO						
UNII-1	90	38	9.18	9.40	12.30	23.98	-11.68	-0.78	11.52	30.00	-18.48
	130	46	17.48	17.23	20.37	23.98	-3.61	-0.78	19.59	30.00	-10.41
UNII-2A	170	54	17.71	17.01	20.38	23.98	-3.60	-0.50	19.88	30.00	-10.12
	110	62	10.54	10.55	13.56	23.98	-10.42	-0.50	13.06	30.00	-16.94
UNII-2C	110	102	12.59	12.66	15.64	23.98	-8.34	-1.35	14.29	30.00	-15.71
	190	118	16.75	17.47	20.14	23.98	-3.84	-1.35	18.79	30.00	-11.21
	130	126	16.98	17.57	20.30	23.98	-3.68	-1.35	18.95	30.00	-11.05
	110	142	17.06	17.72	20.41	23.98	-3.57	-1.35	19.06	30.00	-10.94
UNII-3	155	151	17.20	17.60	20.41	30.00	-9.59	-1.73	18.68	36.00	-17.32
	195	159	17.02	17.55	20.30	30.00	-9.70	-1.73	18.57	36.00	-17.43
UNII-4	135	167	17.06	17.67	20.39	-	-	-1.73	18.66	30.00	-11.34
	175	175	17.07	17.67	20.39	-	-	-2.21	18.18	30.00	-11.82

Table 7-51. MIMO 40MHz BW 802.11be (UNII) Maximum Conducted Output Power

FCC ID: A3LSMF966JPN	MEASUREMENT REPORT		Approved by: Technical Manager
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5GHz WIFI (80MHz 802.11ac MIMO)						Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]								
			ANT1	ANT2	MIMO						
UNII-1	5210	42	10.40	10.78	13.60	23.98	-10.38	-0.78	12.82	30.00	-17.18
UNII-2A	5290	58	10.73	10.69	13.72	23.98	-10.26	-0.50	13.22	30.00	-16.78
UNII-2C	5530	106	12.89	13.57	16.25	23.98	-7.73	-1.35	14.90	30.00	-15.10
	5610	122	17.97	17.49	20.75	23.98	-3.23	-1.35	19.40	30.00	-10.60
	5690	138	17.82	17.33	20.59	23.98	-3.39	-1.35	19.24	30.00	-10.76
UNII-3	5775	155	14.69	14.11	17.42	30.00	-12.58	-1.73	15.69	36.00	-20.31
UNII-4	5885	171	14.89	14.19	17.56	-	-	-1.73	15.83	30.00	-14.17

Table 7-52. MIMO 80MHz BW 802.11ac (UNII) Maximum Conducted Output Power

5GHz WIFI (80MHz 802.11ax MIMO)						Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]								
			ANT1	ANT2	MIMO						
UNII-1	5210	42	10.25	9.84	13.06	23.98	-10.92	-0.78	12.28	30.00	-17.72
UNII-2A	5290	58	10.60	9.74	13.20	23.98	-10.78	-0.50	12.70	30.00	-17.30
UNII-2C	5530	106	13.16	13.12	16.15	23.98	-7.83	-1.35	14.80	30.00	-15.20
	5610	122	17.04	17.41	20.24	23.98	-3.74	-1.35	18.89	30.00	-11.11
	5690	138	17.17	17.69	20.45	23.98	-3.53	-1.35	19.10	30.00	-10.90
UNII-3	5775	155	14.20	14.50	17.36	30.00	-12.64	-1.73	15.63	36.00	-20.37
UNII-4	5885	171	14.08	14.92	17.53	-	-	-1.73	15.80	30.00	-14.20

Table 7-53. MIMO 80MHz BW 802.11ax (UNII) Maximum Conducted Output Power

5GHz WIFI (80MHz 802.11be MIMO)						Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]								
			ANT1	ANT2	MIMO						
UNII-1	5210	42	10.31	9.88	13.11	23.98	-10.87	-0.78	12.33	30.00	-17.67
UNII-2A	5290	58	10.56	9.75	13.18	23.98	-10.80	-0.50	12.68	30.00	-17.32
UNII-2C	5530	106	13.18	13.14	16.17	23.98	-7.81	-1.35	14.82	30.00	-15.18
	5610	122	16.97	17.41	20.21	23.98	-3.77	-1.35	18.86	30.00	-11.14
	5690	138	17.13	17.73	20.45	23.98	-3.53	-1.35	19.10	30.00	-10.90
UNII-3	5775	155	14.22	14.53	17.39	30.00	-12.61	-1.73	15.66	36.00	-20.34
UNII-4	5885	171	14.10	14.73	17.44	-	-	-1.73	15.71	30.00	-14.29

Table 7-54. MIMO 80MHz BW 802.11be (UNII) Maximum Conducted Output Power

5GHz WIFI (160MHz 802.11ac MIMO)						Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]								
			ANT1	ANT2	MIMO						
UNII-1/2A	5250	50	12.96	12.87	15.93	23.98	-8.05	-0.50	15.43	30.00	-14.57
UNII-2C	5570	114	14.67	14.85	17.77	23.98	-6.21	-1.35	16.42	30.00	-13.58
UNII-3/4	5815	163	14.43	14.83	17.64	30.00	-12.36	-1.73	15.91	30.00	-14.09

Table 7-55. MIMO 160MHz BW 802.11ac (UNII) Maximum Conducted Output Power

5GHz WIFI (160MHz 802.11ax MIMO)						Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]								
			ANT1	ANT2	MIMO						
UNII-1/2A	5250	50	12.19	12.22	15.22	23.98	-8.76	-0.50	14.72	30.00	-15.28
UNII-2C	5570	114	14.62	14.54	17.59	23.98	-6.39	-1.35	16.24	30.00	-13.76
UNII-3/4	5815	163	14.32	14.78	17.57	30.00	-12.43	-1.73	15.84	30.00	-14.16

Table 7-56. MIMO 160MHz BW 802.11ax (UNII) Maximum Conducted Output Power

5GHz WIFI (160MHz 802.11be MIMO)						Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]								
			ANT1	ANT2	MIMO						
UNII-1/2A	5250	50	12.10	12.29	15.21	23.98	-8.77	-0.50	14.71	30.00	-15.29
UNII-2C	5570	114	14.59	14.62	17.62	23.98	-6.36	-1.35	16.27	30.00	-13.73
UNII-3/4	5815	163	13.99	14.60	17.32	30.00	-12.68	-1.73	15.59	30.00	-14.41

Table 7-57. MIMO 160MHz BW 802.11be (UNII) Maximum Conducted Output Power

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80MHz BW	Band	Freq [MHz]	Channel	Puncture Size	Average Conducted Power (dBm)												Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Dir. Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
					Puncture Case																	
					93			92			90											
					ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	ANT1	ANT2	MIMO						
1	5210	42	20MHz		9.39	9.34	12.38	9.42	9.31	12.38	9.52	9.31	12.43	23.98	-11.55	-0.78	11.65	30.0	-18.35			
2A	5290	58	20MHz		10.94	11.49	14.23	10.82	11.49	14.18	10.99	11.49	14.26	23.98	-9.72	-0.50	13.75	30.0	-16.25			
2C	5530	106	20MHz		12.99	13.32	16.17	13.02	13.30	16.17	12.95	13.49	16.24	23.98	-7.74	-1.35	14.89	30.0	-15.11			
	5610	122	20MHz		17.99	17.46	20.74	17.53	17.07	20.32	17.62	16.99	20.33	23.98	-3.24	-1.35	19.40	30.0	-10.60			
	5690	138	20MHz		17.99	17.36	20.70	17.99	17.37	20.70	17.65	18.92	20.31	23.98	-3.28	-1.35	19.35	30.0	-10.65			
3	5775	155	20MHz		17.82	17.45	20.65	17.78	17.55	20.68	17.80	17.55	20.69	30	-9.31	-1.73	18.95	36.0	-17.05			
4	5855	171	20MHz		17.96	17.45	20.72	17.97	17.55	20.78	17.99	17.61	20.81	-	-	-2.21	18.60	30.0	-11.40			

Table 7-58. MIMO 80MHz BW 802.11be (UNII) Maximum Conducted Output Power – 20MHz Puncture

160MHz BW	Band	Freq [MHz]	Channel	Puncture Size	Average Conducted Power (dBm)									Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Dir. Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
					Puncture Case														
					1099			1098			1096								
					ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	ANT1	ANT2	MIMO						
1/2A	5250	50	20MHz		10.63	10.81	13.72	10.61	10.85	13.73	10.63	10.85	13.73	23.98	-10.25	-0.50	13.23	30.0	-16.77
2C	5570	114	20MHz		13.93	13.43	16.70	13.92	13.49	16.72	13.92	13.48	16.72	23.98	-7.26	-1.35	15.37	30.0	-14.63
3/4	5815	163	20MHz		14.91	14.54	17.74	14.87	14.58	17.74	14.93	14.52	17.74			-1.73	16.01	30.0	-13.99

Table 7-59. MIMO 160MHz BW 802.11be (UNII) Maximum Conducted Output Power – 20MHz Puncture

160MHz BW	Band	Freq [MHz]	Channel	Puncture Size	Average Conducted Power (dBm)									Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Dir. Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
					Puncture Case														
					1095			1094			94								
					ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	ANT1	ANT2	MIMO						
1/2A	5250	50	40MHz		10.55	10.84	13.71	10.61	10.78	13.71	10.69	10.70	13.71	23.98	-10.27	-0.50	13.20	30.0	-16.80
2C	5570	114	40MHz		13.85	13.45	16.66	13.84	13.41	16.64	13.91	13.49	16.72	23.98	-7.26	-1.35	15.37	30.0	-14.63
3/4	5815	163	40MHz		14.80	14.52	17.67	14.90	14.54	17.72	14.91	14.51	17.72			-1.73	16.00	30.0	-14.00

Table 7-60. MIMO 160MHz BW 802.11be (UNII) Maximum Conducted Output Power – 40MHz Puncture

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Note:

Per ANSI C63.10-2020 and KDB 662911 v02r01 Section E1), the conducted powers at Antenna 1 and Antenna 2 were first measured separately during MIMO transmission as shown in the section above. The measured values were then summed in linear power units then converted back to dBm.

Per ANSI C63.10-2020 Section 14.6.3, the directional gain is calculated using the following formula, where G_N is the gain of the nth 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 5180MHz in 802.11n (20MHz BW) mode, the average conducted output power was measured to be 17.51 dBm for Antenna 1 and 17.68 dBm for Antenna 2.

Antenna 1 + Antenna 2 = MIMO

$$(17.51 \text{ dBm} + 17.68 \text{ dBm}) = (56.364 \text{ mW} + 58.614 \text{ mW}) = 114.978 \text{ mW} = 20.61 \text{ dBm}$$

Sample e.i.r.p Calculation:

At 5180MHz in 802.11n (20MHz BW) mode, the average MIMO conducted power was calculated to be 20.61 dBm with directional gain of -1.71 dBi.

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

$$20.61 \text{ dBm} + -1.71 \text{ dBi} = 18.90 \text{ dBm}$$

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7.5 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 C63.10-2020, and at the appropriate frequencies. Method SA-1, as defined in ANSI C63.10-2020, was used to measure the power spectral density.

The output power density limits are as specified in the tables below.

UNII Band	Frequency Range	Maximum Conducted Power Limit
		FCC
UNII 1	5.15 – 5.25GHz	11dBm/MHz
UNII 2A	5.25 – 5.35GHz	
UNII 2C	5.47 – 5.725GHz	
UNII 3	5.725 – 5.850GHz	30dBm/500kHz
UNII 4	5.850 – 5.895GHz	14dBm/MHz e.i.r.p

UNII Band	Frequency Range	Maximum Conducted Power Limit
		ISED
UNII 1	5.15 – 5.25GHz	10dBm/MHz e.i.r.p
UNII 2A	5.25 – 5.35GHz	11dBm/MHz
UNII 2C	5.47 – 5.725GHz	
UNII 3	5.725 – 5.850GHz	30dBm/500kHz
UNII 4	5.850 – 5.895GHz	14dBm/MHz e.i.r.p

Test Procedure Used

ANSI C63.10-2020 – Section 12.4.2.4 (Method SA-2) (← if you applied duty cycle correction factor)
ANSI C63.10-2020 – 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.

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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

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Summed MIMO Power Spectral Density Measurements

	Frequency [MHz]	Channel	802.11 MODE	Antenna 1 PSD [dBm]	Antenna 2 PSD [dBm]	DCCF [dB]	MIMO Summed PSD [dBm]	PSD Limit [dBm]	Margin [dB]
Band 1	5180	36	a	5.27	4.55	0.16	8.09	11.00	-2.91
	5200	40	a	5.19	4.26	0.16	7.91	11.00	-3.09
	5240	48	a	5.10	4.02	0.16	7.76	11.00	-3.24
	5180	36	n	6.11	5.06	0.00	8.63	11.00	-2.37
	5200	40	n	6.27	4.95	0.00	8.67	11.00	-2.33
	5240	48	n	6.61	5.34	0.00	9.03	11.00	-1.97
	5180	36	be SU	5.99	5.34	0.00	8.69	11.00	-2.31
	5200	40	be SU	6.03	5.37	0.00	8.72	11.00	-2.28
	5240	48	be SU	6.31	5.61	0.00	8.99	11.00	-2.01
	5190	38	n	3.40	2.16	0.10	5.93	11.00	-5.07
	5230	46	n	3.65	2.87	0.10	6.39	11.00	-4.61
	5190	38	be SU	2.72	1.91	0.00	5.34	11.00	-5.66
	5230	46	be SU	2.70	1.80	0.00	5.28	11.00	-5.72
	5210	42	ac	0.82	-0.50	0.37	3.59	11.00	-7.41
Band 1/2A	5210	42	be SU	-0.10	-1.43	0.00	2.30	11.00	-8.70
	5250	50	ac	-4.30	-4.64	0.37	-1.09	11.00	-12.09
Band 2A	5250	50	be SU	-4.28	-4.86	0.00	-1.55	11.00	-12.55
	5260	52	a	6.16	4.92	0.16	8.75	11.00	-2.25
	5280	56	a	6.39	4.76	0.16	8.82	11.00	-2.18
	5320	64	a	6.02	5.34	0.16	8.86	11.00	-2.14
	5260	52	n	6.65	5.11	0.00	8.96	11.00	-2.04
	5280	56	n	6.53	5.16	0.00	8.91	11.00	-2.09
	5320	64	n	6.39	5.53	0.00	9.00	11.00	-2.00
	5260	52	be SU	6.45	5.48	0.00	9.00	11.00	-2.00
	5280	56	be SU	6.44	5.52	0.00	9.02	11.00	-1.98
	5320	64	be SU	6.12	5.46	0.00	8.81	11.00	-2.19
	5270	54	n	4.05	2.55	0.10	6.47	11.00	-4.53
	5310	62	n	3.51	2.64	0.10	6.21	11.00	-4.79
	5270	54	be SU	2.96	1.71	0.00	5.39	11.00	-5.61
	5310	62	be SU	2.94	1.93	0.00	5.47	11.00	-5.53
	5290	58	ac	1.12	-0.50	0.37	3.76	11.00	-7.24
	5290	58	be SU	0.03	-1.37	0.00	2.39	11.00	-8.61
Band 2C	5500	100	a	6.47	5.78	0.16	9.31	11.00	-1.69
	5600	120	a	6.57	6.31	0.16	9.60	11.00	-1.40
	5720	144	a	6.03	6.17	0.16	9.27	11.00	-1.73
	5500	100	n	6.32	5.55	0.00	8.96	11.00	-2.04
	5600	120	n	6.14	6.56	0.00	9.36	11.00	-1.64
	5720	144	n	6.34	6.94	0.00	9.66	11.00	-1.34
	5500	100	be SU	6.53	5.54	0.00	9.07	11.00	-1.93
	5600	120	be SU	5.86	5.96	0.00	8.92	11.00	-2.08
	5720	144	be SU	6.16	6.12	0.00	9.15	11.00	-1.85
	5510	102	n	3.76	2.84	0.10	6.43	11.00	-4.57
	5590	118	n	3.52	3.26	0.10	6.50	11.00	-4.50
	5710	142	n	3.39	3.30	0.10	6.45	11.00	-4.55
	5510	102	be SU	2.89	2.32	0.00	5.63	11.00	-5.37
	5590	118	be SU	2.52	2.43	0.00	5.49	11.00	-5.51
	5710	142	be SU	2.75	2.55	0.00	5.66	11.00	-5.34
	5530	106	ac	0.95	0.09	0.37	3.92	11.00	-7.08
	5610	122	ac	0.91	0.49	0.37	4.08	11.00	-6.92
	5690	138	ac	0.89	0.58	0.37	4.11	11.00	-6.89
	5530	106	be SU	-0.05	-0.75	0.00	2.63	11.00	-8.37
	5610	122	be SU	-0.01	-0.79	0.00	2.63	11.00	-8.37
	5690	138	be SU	-0.21	-0.40	0.00	2.71	11.00	-8.29
	5570	114	ac	-3.84	-4.49	0.37	-0.78	11.00	-11.78
	5570	114	be SU	-3.78	-4.21	0.00	-0.98	11.00	-11.98

Table 7-61. Bands 1, 2A, 2C MIMO Conducted Power Spectral Density Measurements

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	Frequency [MHz]	Channel	802.11 MODE	Antenna 1 PSD [dBm]	Antenna 2 PSD [dBm]	DCCF [dB]	MIMO Summed PSD [dBm]	PSD Limit [dBm]	Margin [dB]
Band 3	5745	149	a	3.32	3.55	0.16	6.60	30.00	-23.40
	5785	157	a	3.18	3.76	0.16	6.65	30.00	-23.35
	5825	165	a	3.15	3.62	0.16	6.56	30.00	-23.44
	5745	149	n	3.70	3.82	0.00	6.77	30.00	-23.23
	5785	157	n	3.68	3.74	0.00	6.72	30.00	-23.28
	5825	165	n	3.31	3.60	0.00	6.47	30.00	-23.53
	5745	149	be SU	3.43	3.37	0.00	6.41	30.00	-23.59
	5785	157	be SU	3.34	3.51	0.00	6.44	30.00	-23.56
	5825	165	be SU	3.50	3.16	0.00	6.34	30.00	-23.66
	5755	151	n	0.80	0.63	0.10	3.82	30.00	-26.18
	5795	159	n	0.98	0.72	0.10	3.96	30.00	-26.04
	5755	151	be SU	-0.06	0.12	0.00	3.04	30.00	-26.96
	5795	159	be SU	0.05	-0.22	0.00	2.93	30.00	-27.07
	5775	155	ac	-2.10	-2.18	0.37	1.24	30.00	-28.76
	5775	155	be SU	-3.04	-3.78	0.00	-0.38	30.00	-30.38

Table 7-62. Band 3 MIMO Conducted Power Spectral Density Measurements

	Frequency [MHz]	Channel	802.11 MODE	Antenna 1 PSD [dBm]	Antenna 2 PSD [dBm]	MIMO Summed PSD [dBm]	Directional Antenna Gain [dBi]	DCCF [dB]	EIRP PSD [dBm]	EIRP PSD Limit [dBm]	Margin [dB]
Band 3/4	5845	169	a	6.07	6.48	9.29	-1.73	0.16	7.71	14.00	-6.29
Band 4	5865	173	a	5.88	6.36	9.14	-1.73	0.16	7.56	14.00	-6.44
	5885	177	a	6.14	6.53	9.35	-1.73	0.16	7.77	14.00	-6.23
Band 3/4	5845	169	n	6.40	6.64	9.53	-1.73	0.00	7.80	14.00	-6.20
Band 4	5865	173	n	6.17	6.63	9.42	-1.73	0.00	7.68	14.00	-6.32
	5885	177	n	6.19	6.72	9.47	-1.73	0.00	7.74	14.00	-6.26
Band 3/4	5845	169	be SU	5.99	6.30	9.15	-1.73	0.00	7.42	14.00	-6.58
Band 4	5865	173	be SU	6.25	6.17	9.22	-1.73	0.00	7.49	14.00	-6.51
	5885	177	be SU	6.06	6.40	9.24	-1.73	0.00	7.51	14.00	-6.49
Band 3/4	5835	167	n	3.41	3.89	6.67	-1.73	0.10	5.03	14.00	-8.97
Band 4	5875	175	n	3.83	4.24	7.05	-1.73	0.10	5.41	14.00	-8.59
Band 3/4	5835	167	be SU	2.66	2.53	5.61	-1.73	0.00	3.87	14.00	-10.13
Band 4	5875	175	be SU	2.57	2.79	5.69	-1.73	0.00	3.95	14.00	-10.05
Band 3/4	5855	171	ac	0.46	0.91	3.70	-1.73	0.37	2.34	14.00	-11.66
	5855	171	be SU	-0.37	-0.41	2.62	-1.73	0.00	0.89	14.00	-13.11
	5815	163	ac	-4.12	-4.25	-1.17	-1.73	0.37	-2.54	14.00	-16.54
	5815	163	be SU	-4.27	-4.21	-1.23	-1.73	0.00	-2.96	14.00	-16.96

Table 7-63. Bands 3/4 MIMO Conducted Power Spectral Density Measurements

FCC ID: A3LSMF966JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2504070040-07.A3L	Test Dates: 02/24/2025 - 05/05/2025	EUT Type: Portable Handset	Page 77 of 159

	Frequency [MHz]	Channel	802.11 MODE	Puncture Size [MHz]	Antenna 1 PSD [dBm]	Antenna 2 PSD [dBm]	MIMO Summed PSD [dBm]	PSD Limit [dBm]	Margin [dB]
Band 1	5210	42	be	20	0.57	1.49	4.06	11.00	-6.94
Band 1/2A	5250	50	be	20	-2.85	-3.69	-0.24	11.00	-11.24
	5250	50	be	40	-2.94	-3.19	-0.05	11.00	-11.05
Band 2A	5290	58	be	20	1.28	1.20	4.25	11.00	-6.75
Band 2C	5610	122	be	20	1.02	1.67	4.37	11.00	-6.63
	5570	114	be	20	-2.91	-2.66	0.22	11.00	-10.78
	5570	114	be	40	-2.48	-1.94	0.81	11.00	-10.19

Table 7-64. Bands 1, 2A, 2C MIMO Conducted Power Spectral Density Measurements – Puncture

	Frequency [MHz]	Channel	802.11 MODE	Puncture Size [MHz]	Antenna 1 PSD [dBm]	Antenna 2 PSD [dBm]	MIMO Summed PSD [dBm]	PSD Limit [dBm]	Margin [dB]
Band 3	5775	155	be	20	-1.73	-1.93	1.18	30.00	-28.82

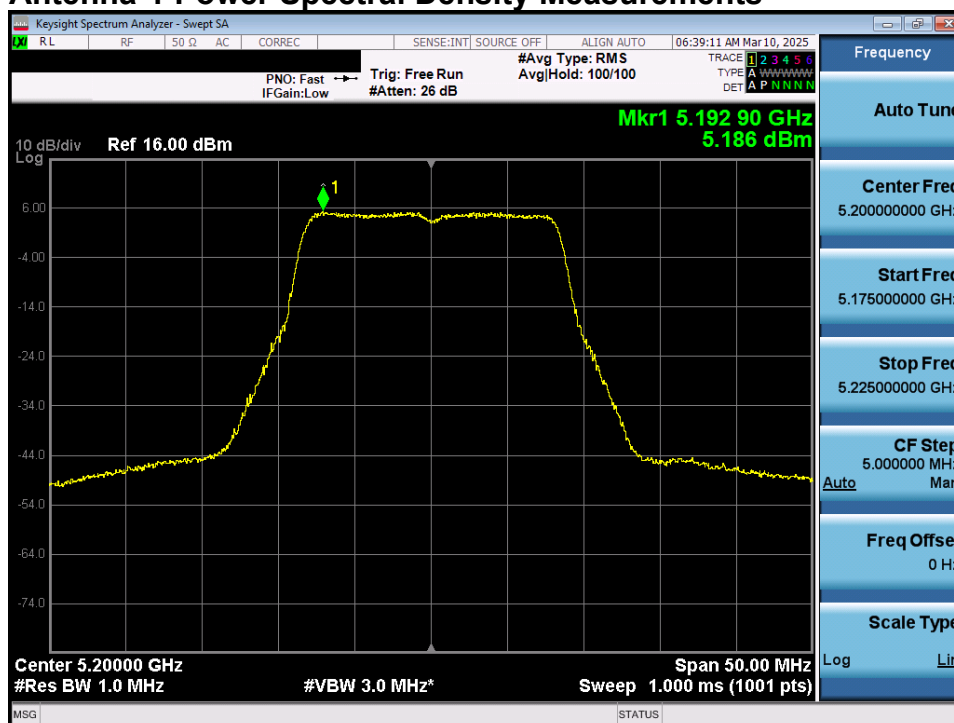
Table 7-65. Band 3 MIMO Conducted Power Spectral Density Measurements - Puncture

	Frequency [MHz]	Channel	802.11 MODE	Puncture Size [MHz]	Antenna 1 PSD [dBm]	Antenna 2 PSD [dBm]	MIMO Summed PSD [dBm]	Directional Antenna Gain [dBi]	DCCF [dB]	EIRP PSD [dBm]	EIRP PSD Limit [dBm]	Margin [dB]
Band 3/4	5855	171	be	20	0.71	0.97	3.85	-1.73	0.00	2.12	14.00	-11.88
	5815	163	be	20	-2.94	-3.22	-0.07	-1.73	0.00	-1.80	14.00	-15.80
	5815	163	be	40	-2.29	-2.42	0.66	-1.73	0.00	-1.07	14.00	-15.07

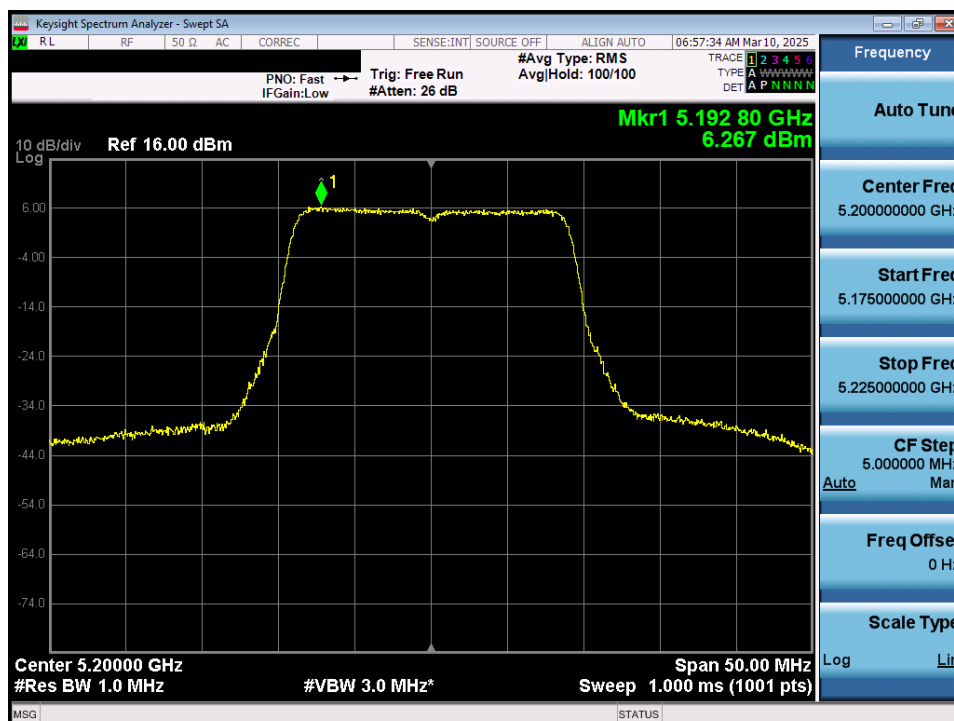
Table 7-66. Bands 3/4 MIMO Conducted Power Spectral Density Measurements - Puncture

FCC ID: A3LSMF966JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2504070040-07.A3L	Test Dates: 02/24/2025 - 05/05/2025	EUT Type: Portable Handset	Page 78 of 159

7.5.1 MIMO Antenna-1 Power Spectral Density Measurements

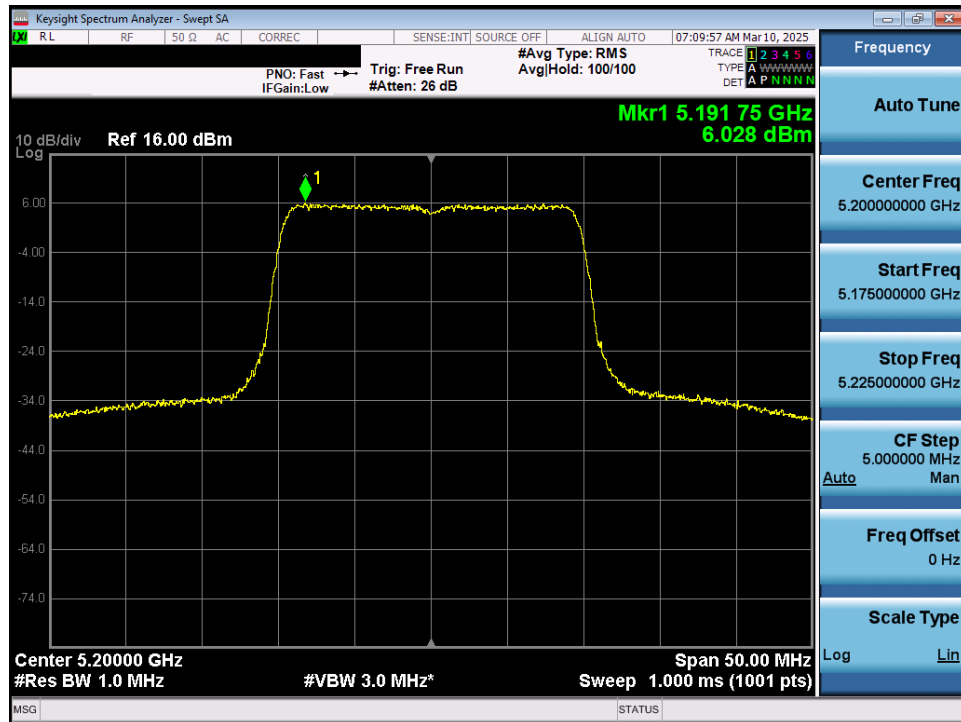


Plot 7-65. Power Spectral Density Plot MIMO ANT1 (20MHz 802.11a (UNII Band 1) – Ch. 40)

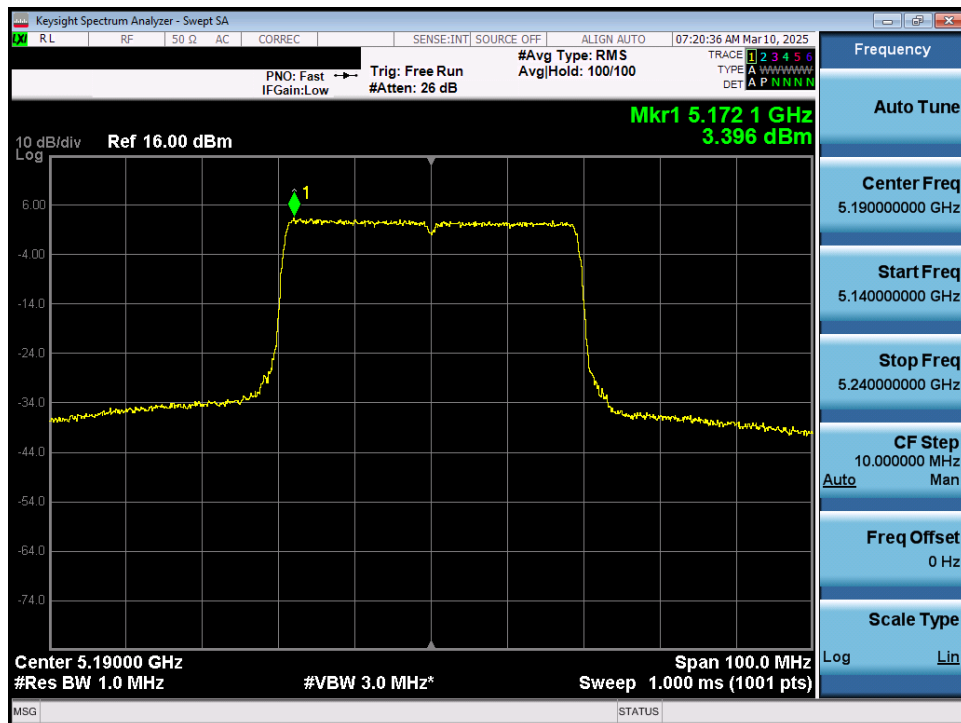


Plot 7-66. Power Spectral Density Plot MIMO ANT1 (20MHz 802.11n (UNII Band 1) – Ch. 40)

FCC ID: A3LSMF966JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2504070040-07.A3L	Test Dates: 02/24/2025 - 05/05/2025	EUT Type: Portable Handset	Page 79 of 159

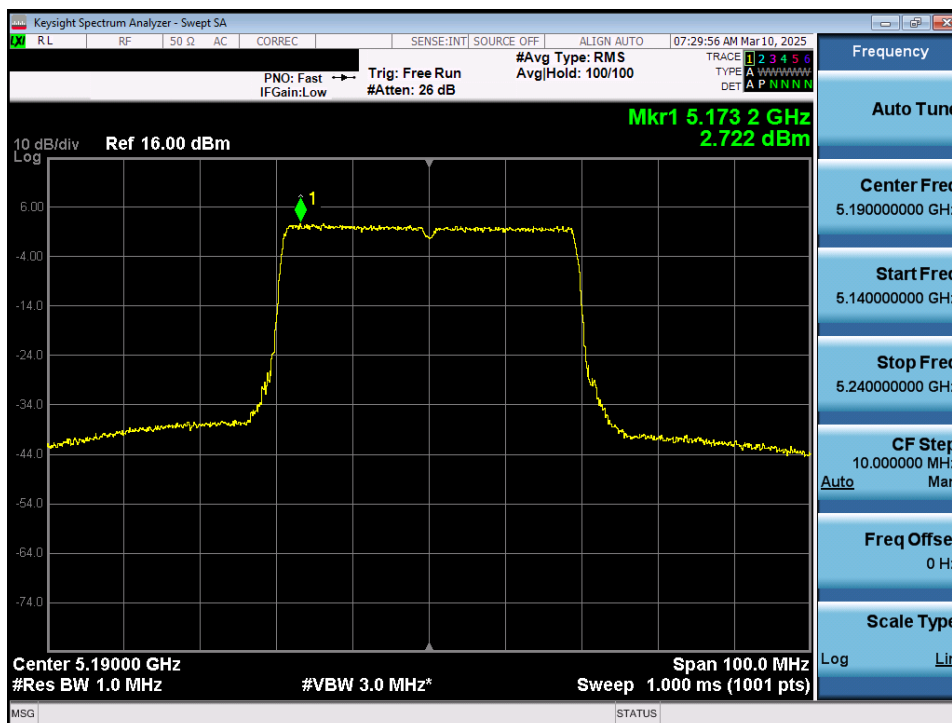


Plot 7-67. Power Spectral Density Plot MIMO ANT1 (20MHz 802.11ax/be (UNII Band 1) – Ch. 40)

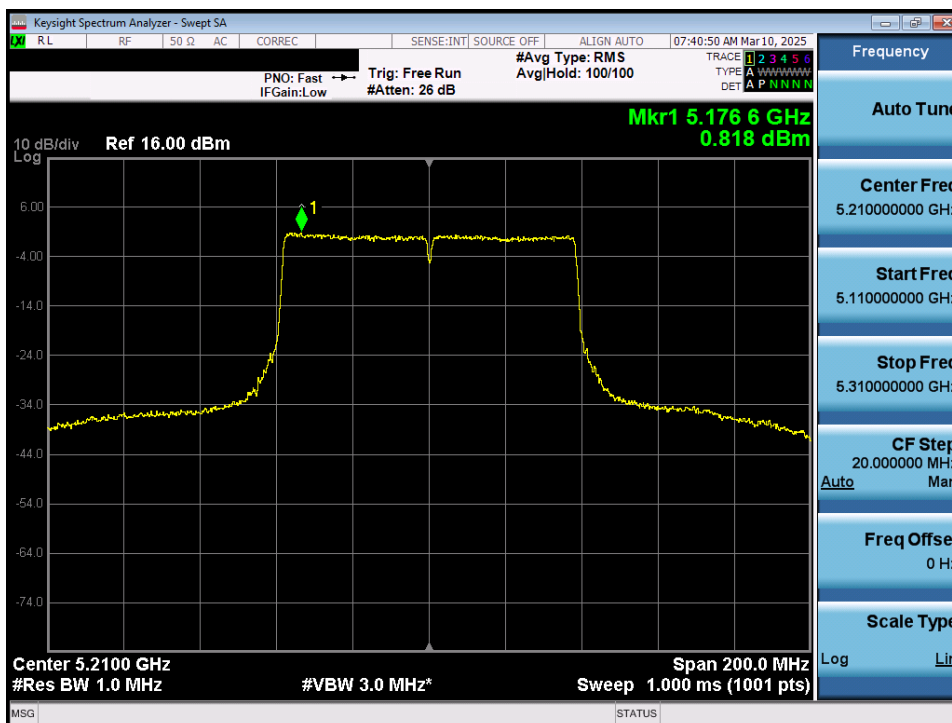


Plot 7-68. Power Spectral Density Plot MIMO ANT1 (40MHz 802.11n (UNII Band 1) – Ch. 38)

FCC ID: A3LSMF966JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2504070040-07.A3L	Test Dates: 02/24/2025 - 05/05/2025	EUT Type: Portable Handset	Page 80 of 159

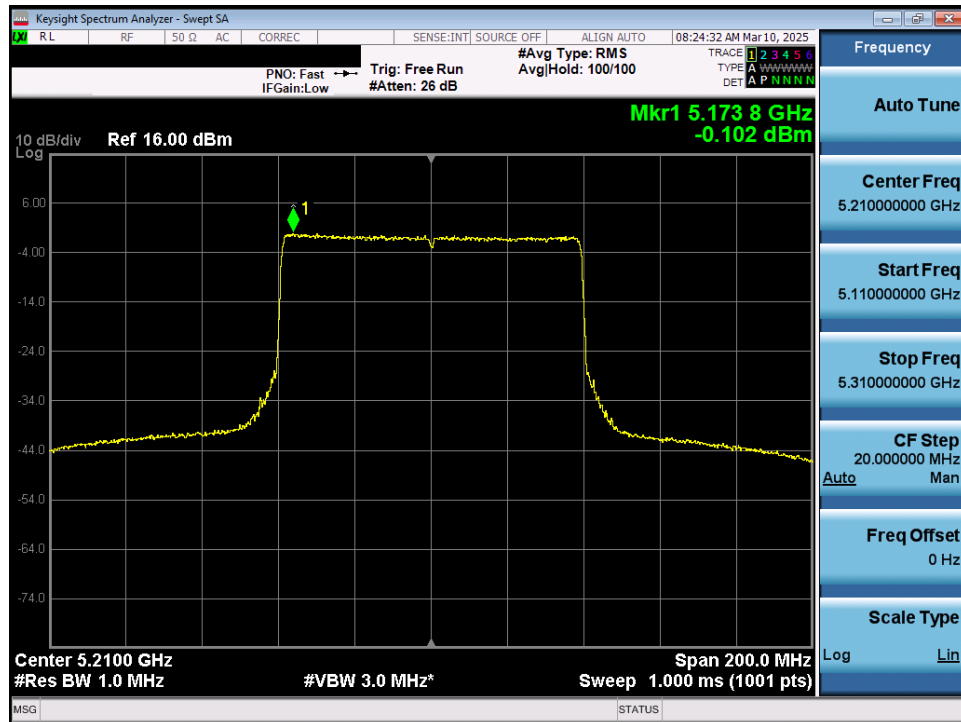


Plot 7-69. Power Spectral Density Plot MIMO ANT1 (40MHz 802.11ax/be (UNII Band 1) – Ch. 38)

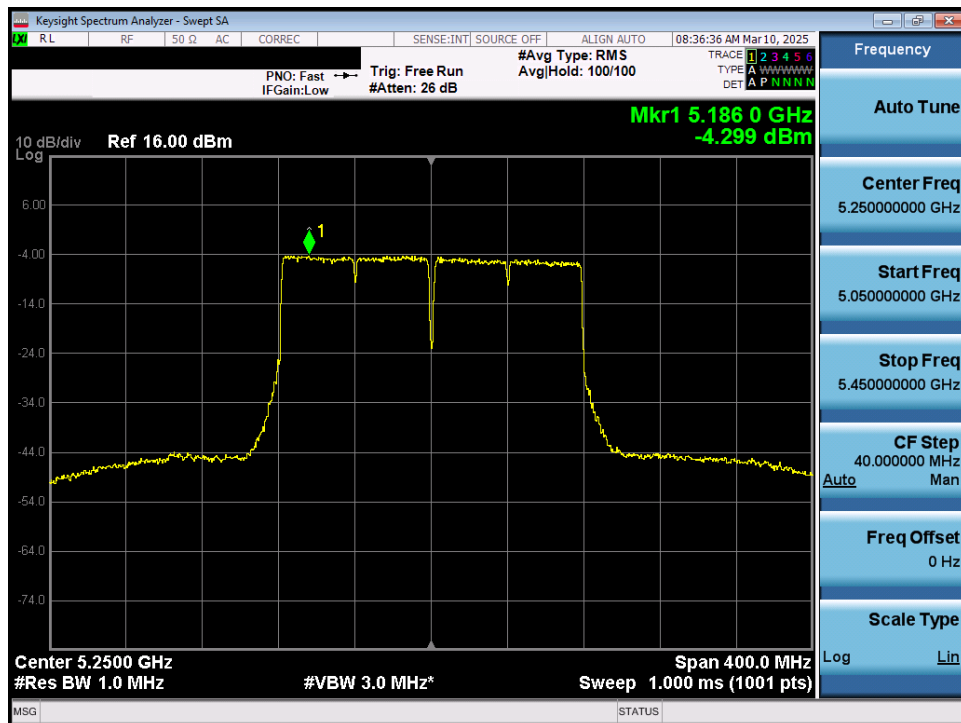


Plot 7-70. Power Spectral Density Plot MIMO ANT1 (80MHz 802.11ac (UNII Band 1) – Ch. 42)

FCC ID: A3LSMF966JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2504070040-07.A3L	Test Dates: 02/24/2025 - 05/05/2025	EUT Type: Portable Handset	Page 81 of 159

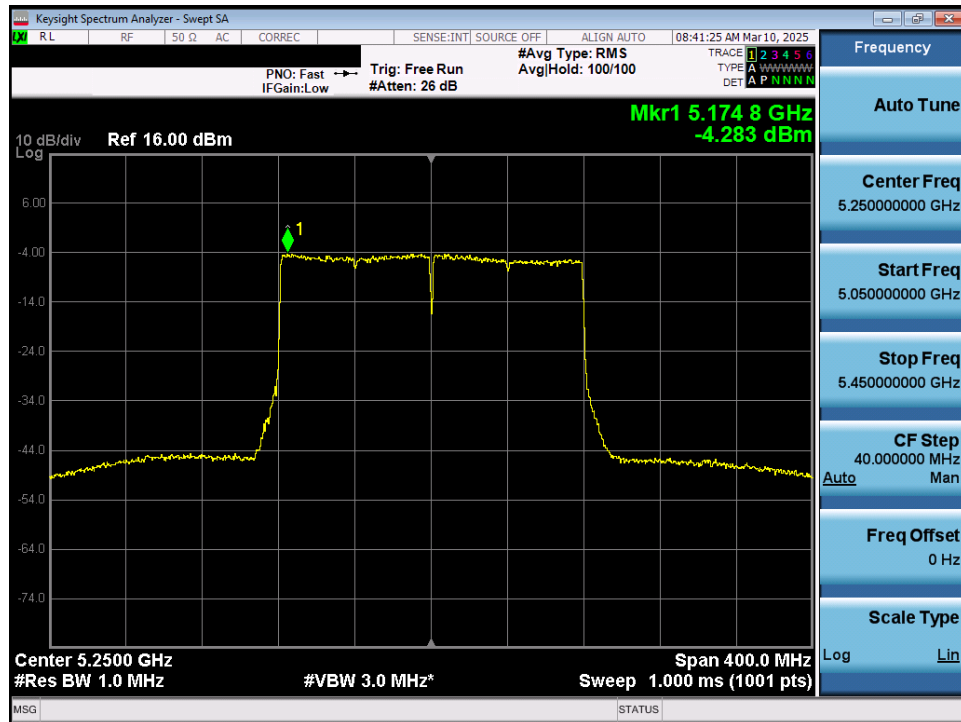


Plot 7-71. Power Spectral Density Plot MIMO ANT1 (80MHz 802.11ax/be (UNII Band 1) – Ch. 42)

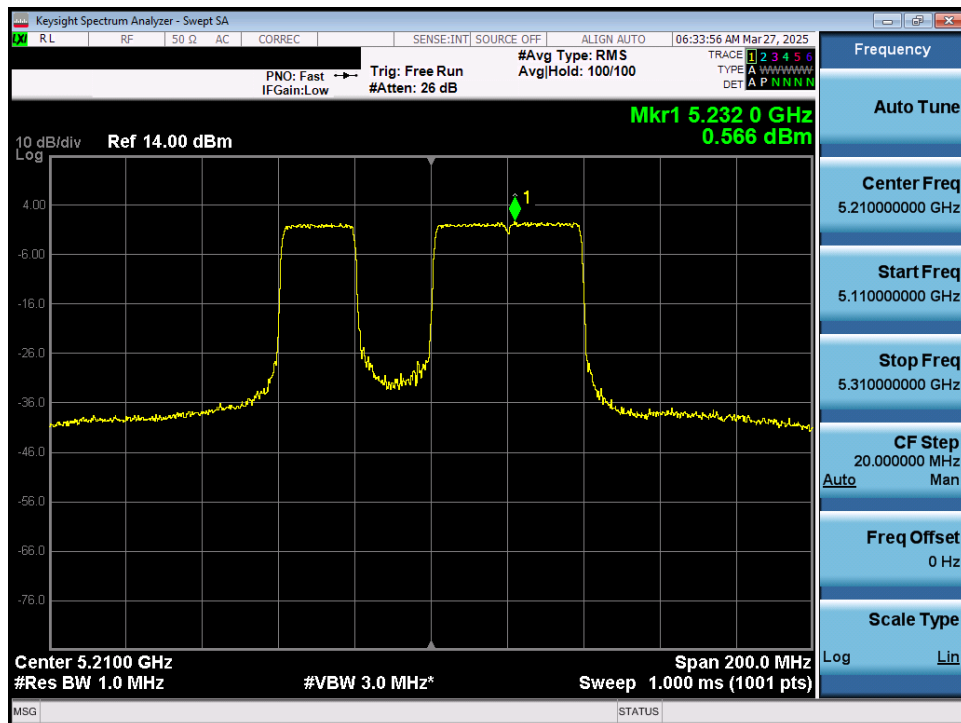


Plot 7-72. Power Spectral Density Plot MIMO ANT1 (160MHz 802.11ac (UNII Band 1/2A) – Ch. 50)

FCC ID: A3LSMF966JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2504070040-07.A3L	Test Dates: 02/24/2025 - 05/05/2025	EUT Type: Portable Handset	Page 82 of 159

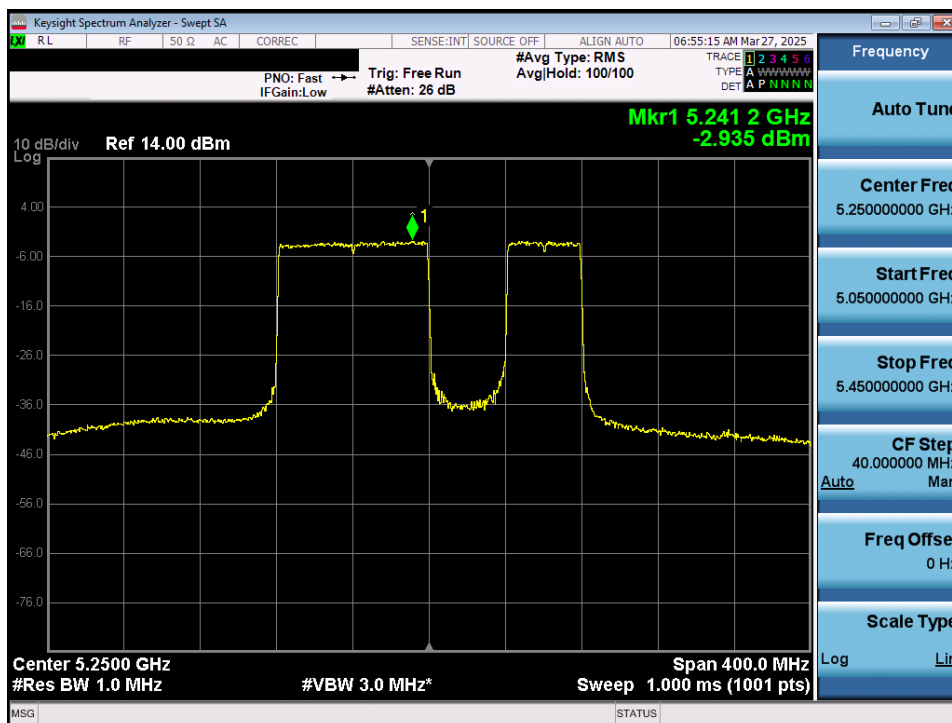


Plot 7-73. Power Spectral Density Plot MIMO ANT1 (160MHz 802.11ax/be (UNII Band 1/2A) – Ch. 50)

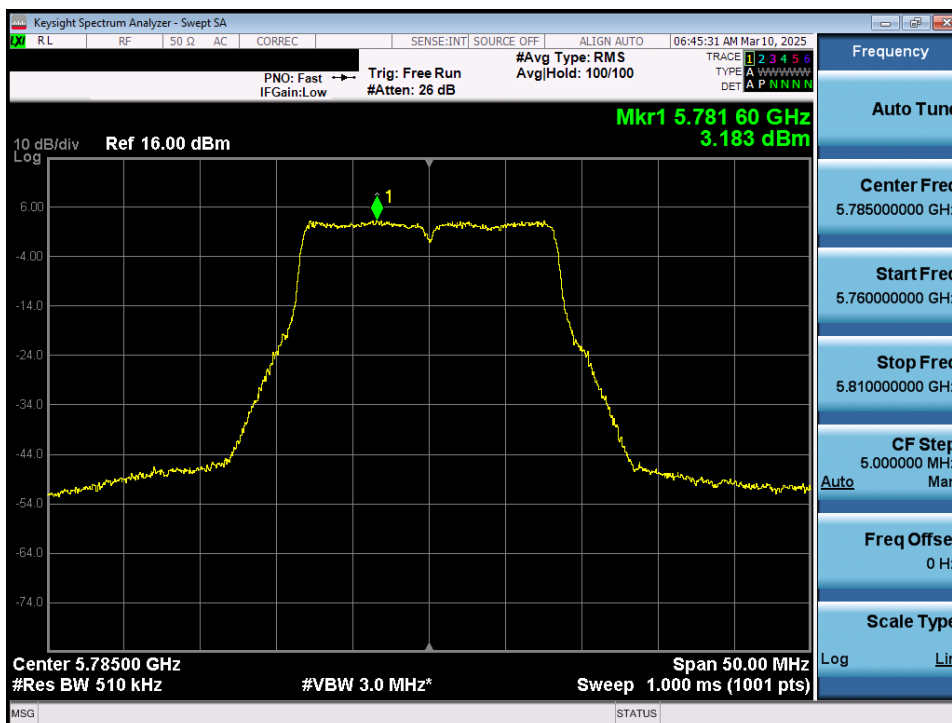


Plot 7-74. Power Spectral Density Plot MIMO ANT1 (80MHz 802.11be (20MHz Puncture) (UNII Band 1) – Ch. 42)

FCC ID: A3LSMF966JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2504070040-07.A3L	Test Dates: 02/24/2025 - 05/05/2025	EUT Type: Portable Handset	Page 83 of 159

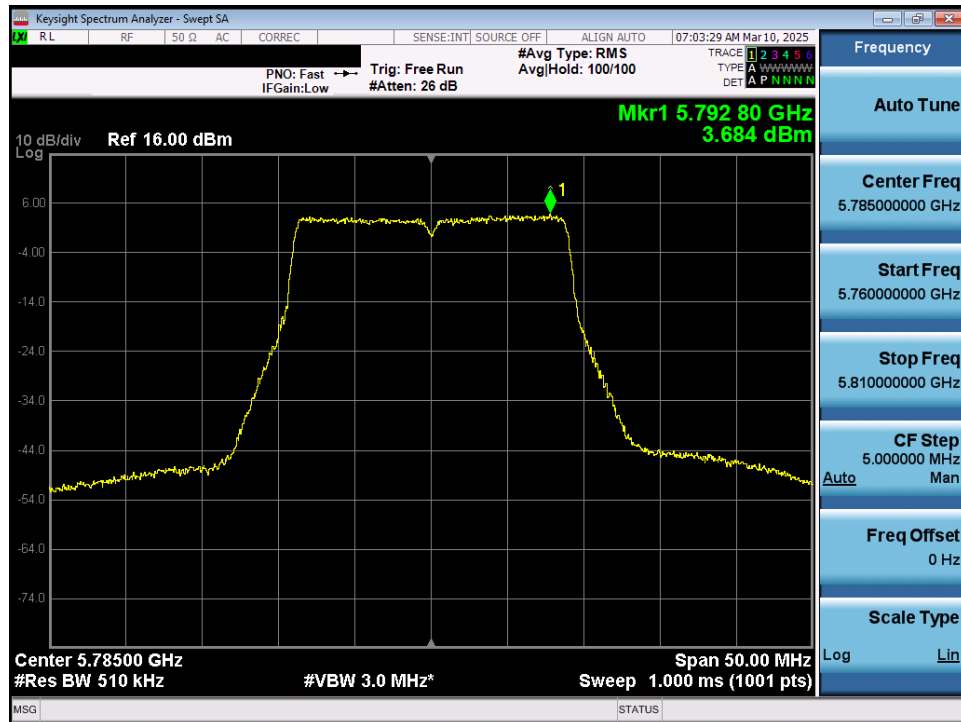


Plot 7-75. Power Spectral Density Plot MIMO ANT1 (160MHz 802.11be (40MHz Puncture) (UNII Band 1/2A) – Ch. 50)

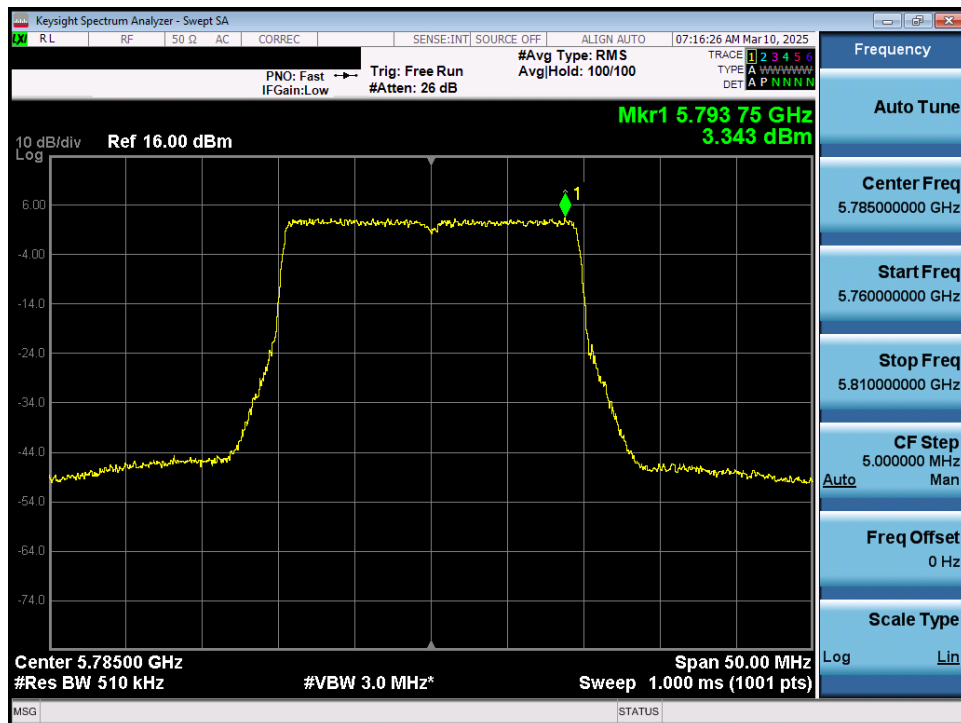


Plot 7-76. Power Spectral Density Plot MIMO ANT1 (20MHz 802.11a (UNII Band 3) – Ch.157)

FCC ID: A3LSMF966JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2504070040-07.A3L	Test Dates: 02/24/2025 - 05/05/2025	EUT Type: Portable Handset	Page 84 of 159

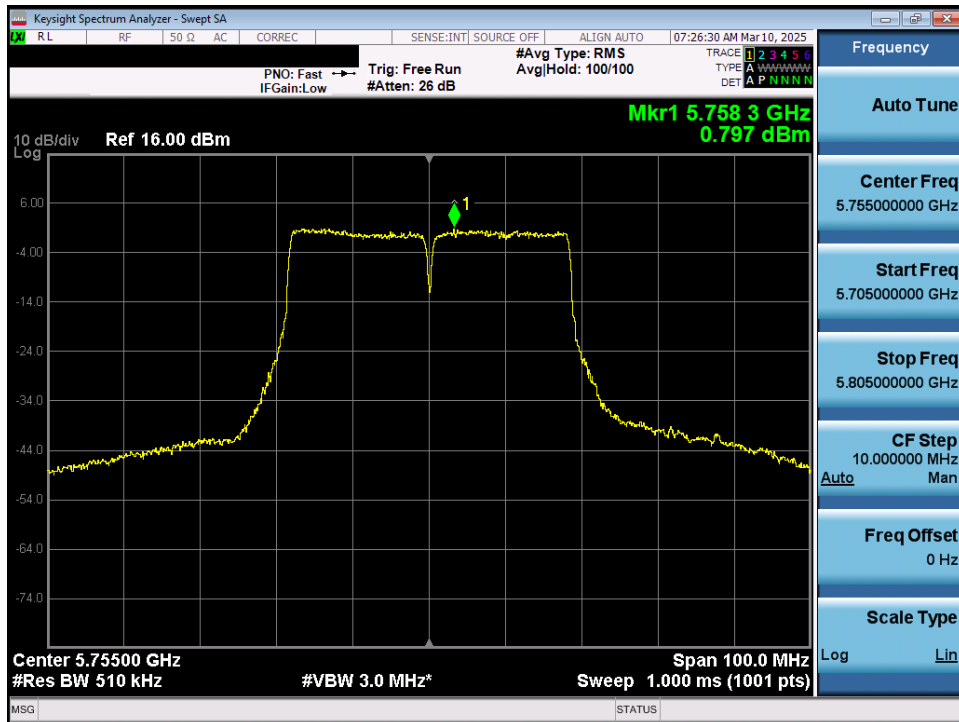


Plot 7-77. Power Spectral Density Plot MIMO ANT1 (20MHz 802.11n (UNII Band 3) – Ch.157)

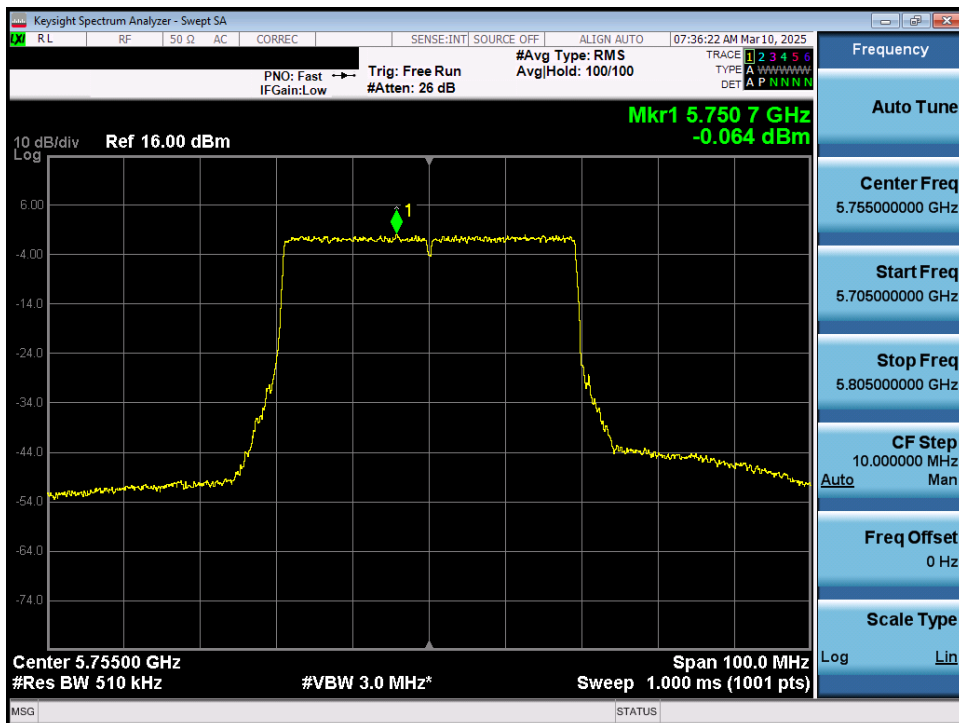


Plot 7-78. Power Spectral Density Plot MIMO ANT1 (20MHz 802.11ax/be (UNII Band 3) – Ch.157)

FCC ID: A3LSMF966JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2504070040-07.A3L	Test Dates: 02/24/2025 - 05/05/2025	EUT Type: Portable Handset	Page 85 of 159

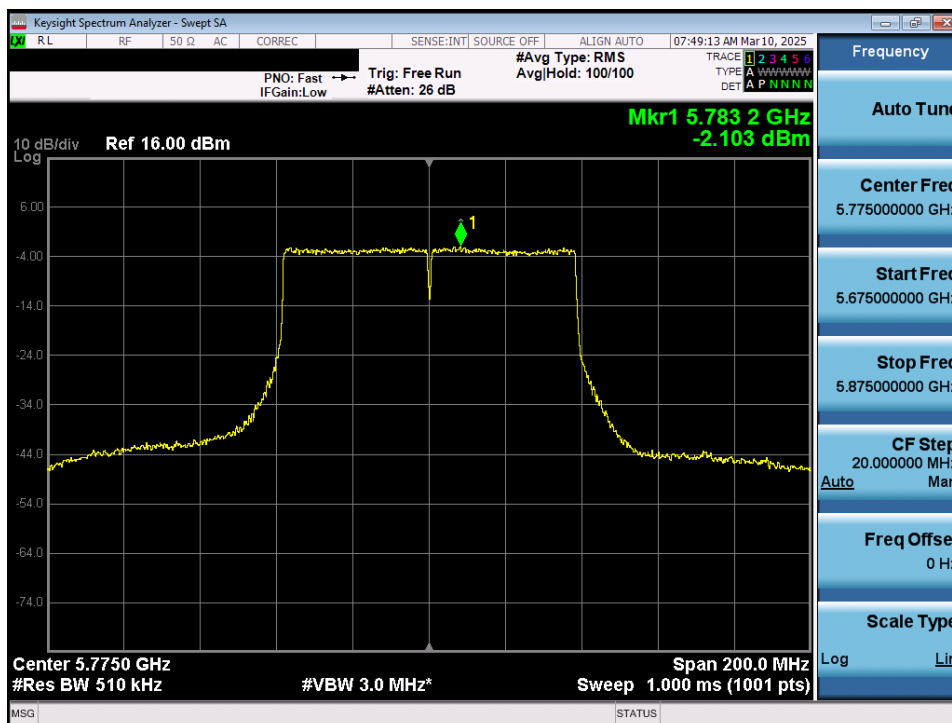


Plot 7-79. Power Spectral Density Plot MIMO ANT1 (40MHz 802.11n (UNII Band 3) – Ch. 151)

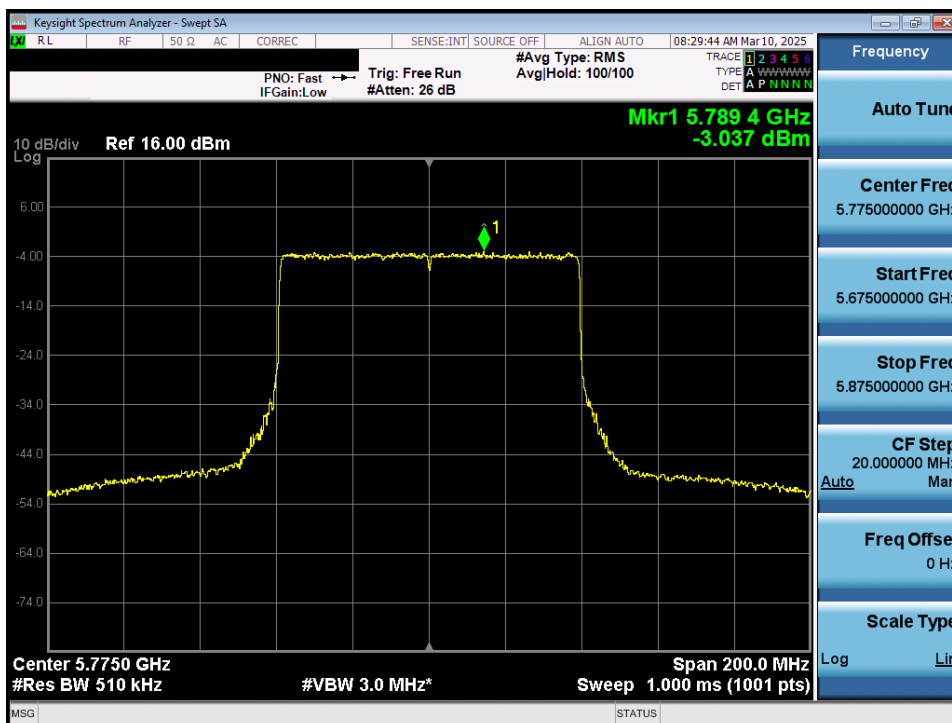


Plot 7-80. Power Spectral Density Plot MIMO ANT1 (40MHz 802.11ax/be (UNII Band 3) – Ch. 151)

FCC ID: A3LSMF966JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2504070040-07.A3L	Test Dates: 02/24/2025 - 05/05/2025	EUT Type: Portable Handset	Page 86 of 159

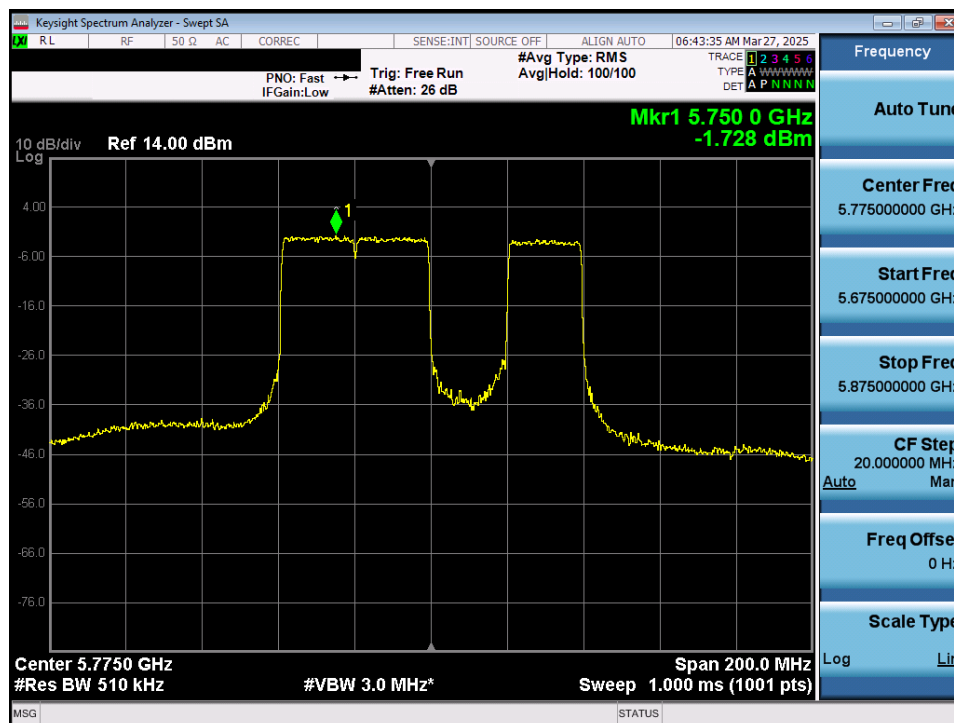


Plot 7-81. Power Spectral Density Plot MIMO ANT1 (80MHz 802.11ac (UNII Band 3) – Ch. 155)



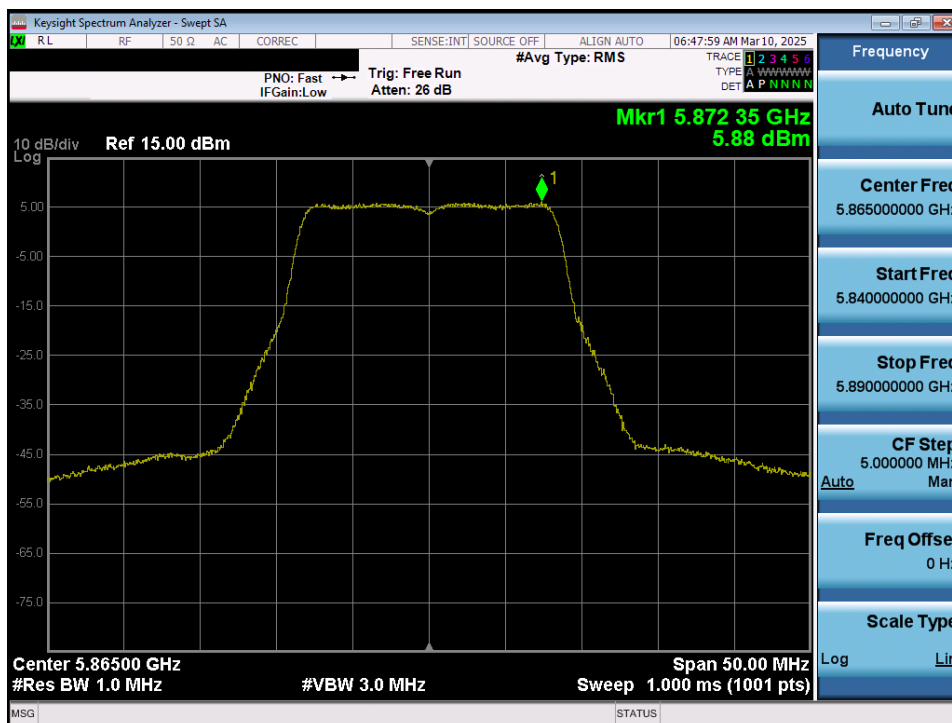
Plot 7-82. Power Spectral Density Plot MIMO ANT1 (80MHz 802.11ax/be (UNII Band 3) – Ch. 155)

FCC ID: A3LSMF966JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2504070040-07.A3L	Test Dates: 02/24/2025 - 05/05/2025	EUT Type: Portable Handset	Page 87 of 159

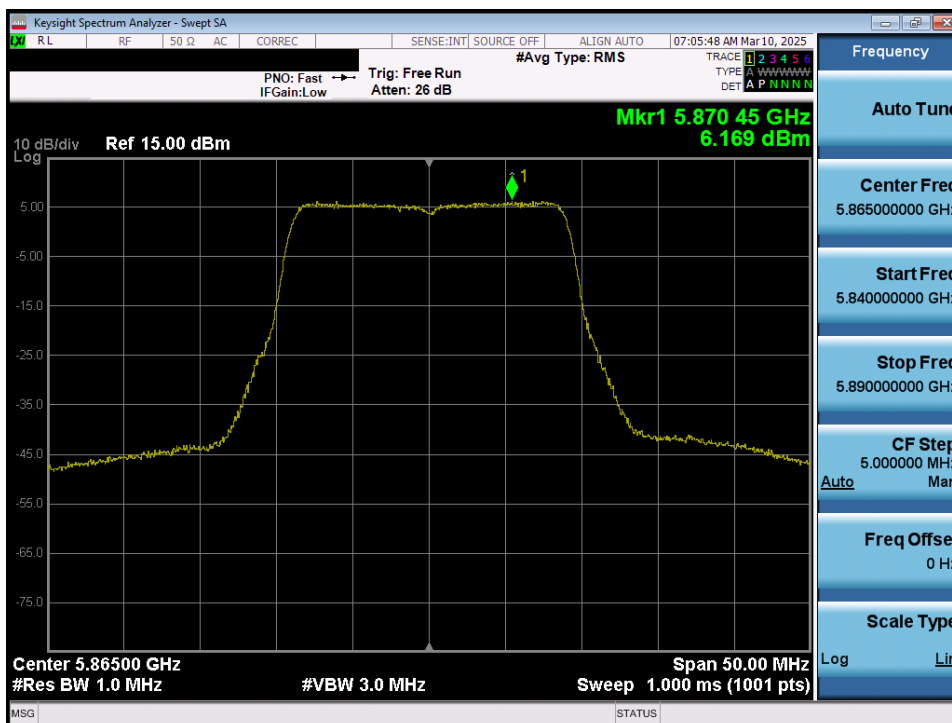


Plot 7-83. Power Spectral Density Plot MIMO ANT1 (80MHz 802.11be (20MHz Puncture) (UNII Band 3) – Ch. 155)

FCC ID: A3LSMF966JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2504070040-07.A3L	Test Dates: 02/24/2025 - 05/05/2025	EUT Type: Portable Handset	Page 88 of 159

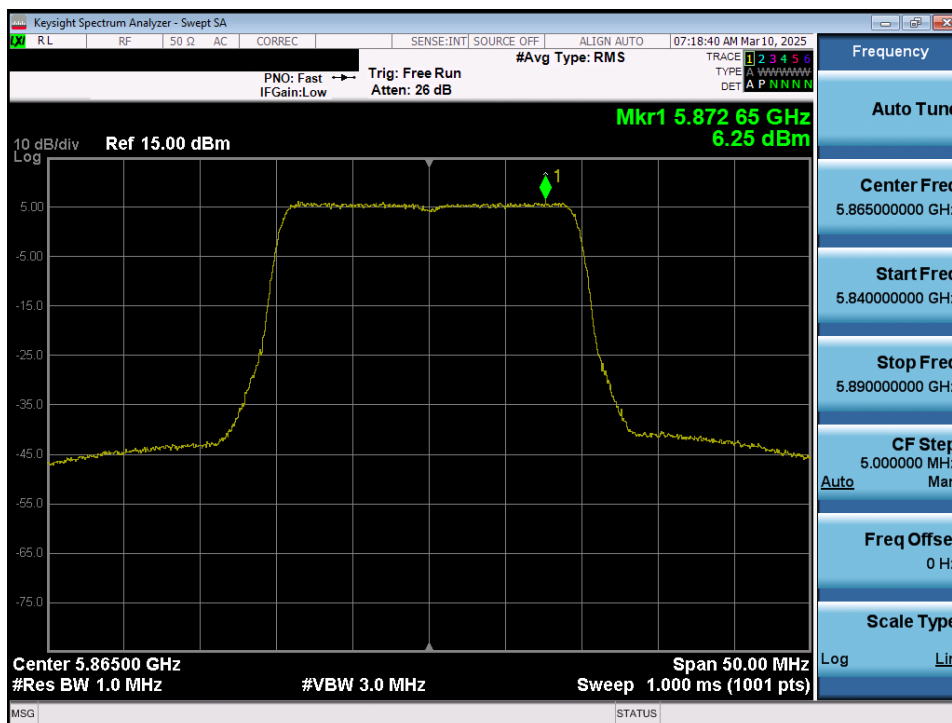


Plot 7-84. Power Spectral Density Plot MIMO ANT1 (20MHz 802.11a (UNII Band 4) – Ch.173)

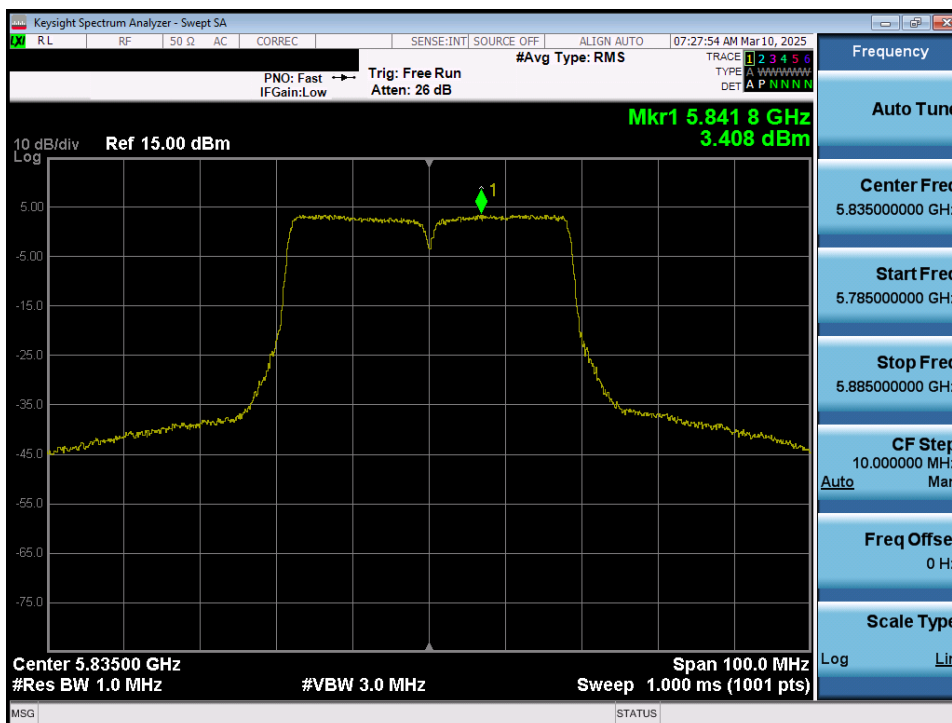


Plot 7-85. Power Spectral Density Plot MIMO ANT1 (20MHz 802.11n (UNII Band 4) – Ch.173)

FCC ID: A3LSMF966JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2504070040-07.A3L	Test Dates: 02/24/2025 - 05/05/2025	EUT Type: Portable Handset	Page 89 of 159

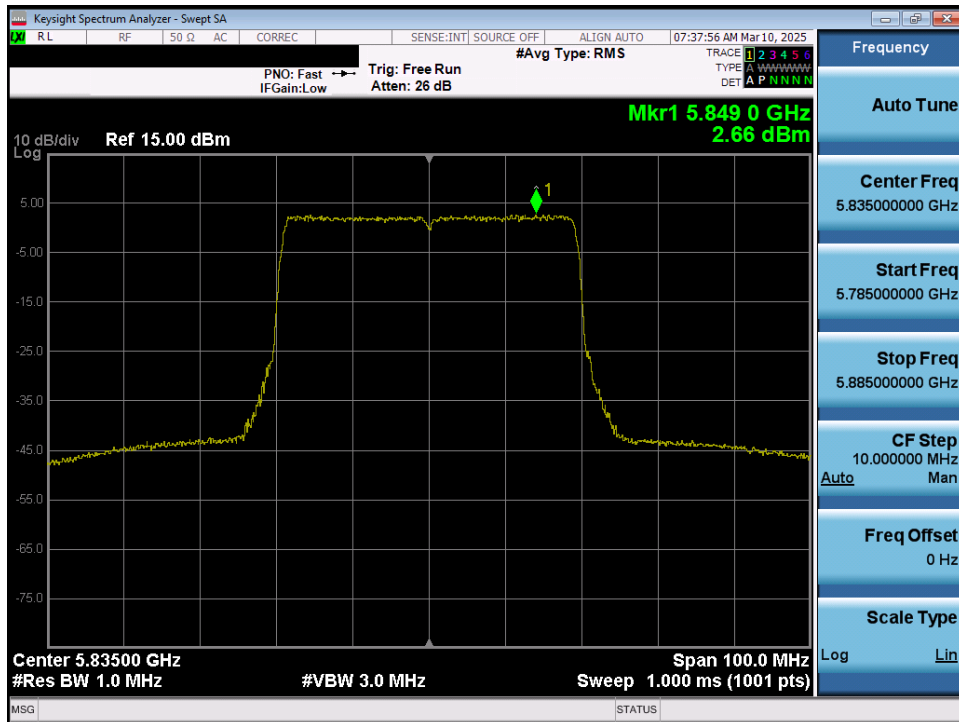


Plot 7-86. Power Spectral Density Plot MIMO ANT1 (20MHz 802.11ax/be (UNII Band 4) – Ch.173)

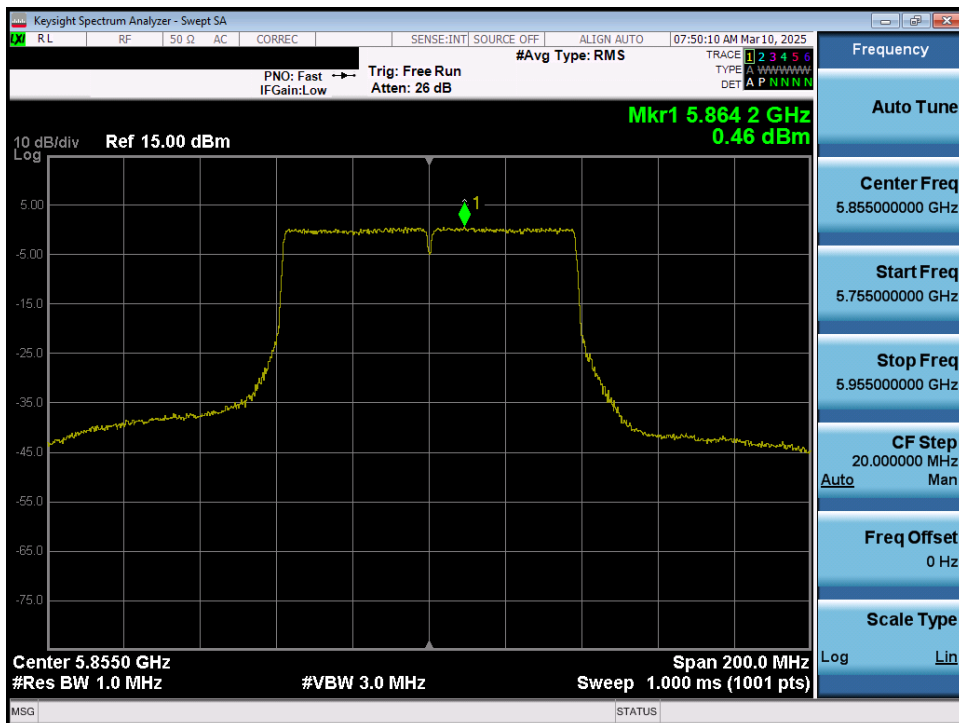


Plot 7-87. Power Spectral Density Plot MIMO ANT1 (40MHz 802.11n (UNII Band 3/4) – Ch. 167)

FCC ID: A3LSMF966JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2504070040-07.A3L	Test Dates: 02/24/2025 - 05/05/2025	EUT Type: Portable Handset	Page 90 of 159

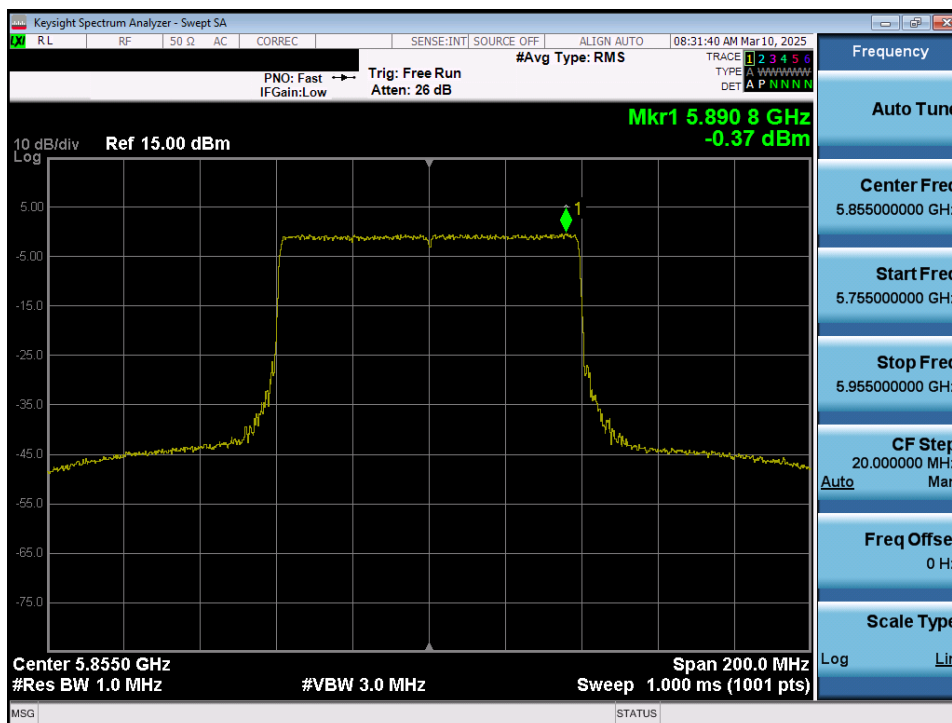


Plot 7-88. Power Spectral Density Plot MIMO ANT1 (40MHz 802.11ax/be (UNII Band 3/4) – Ch. 167)

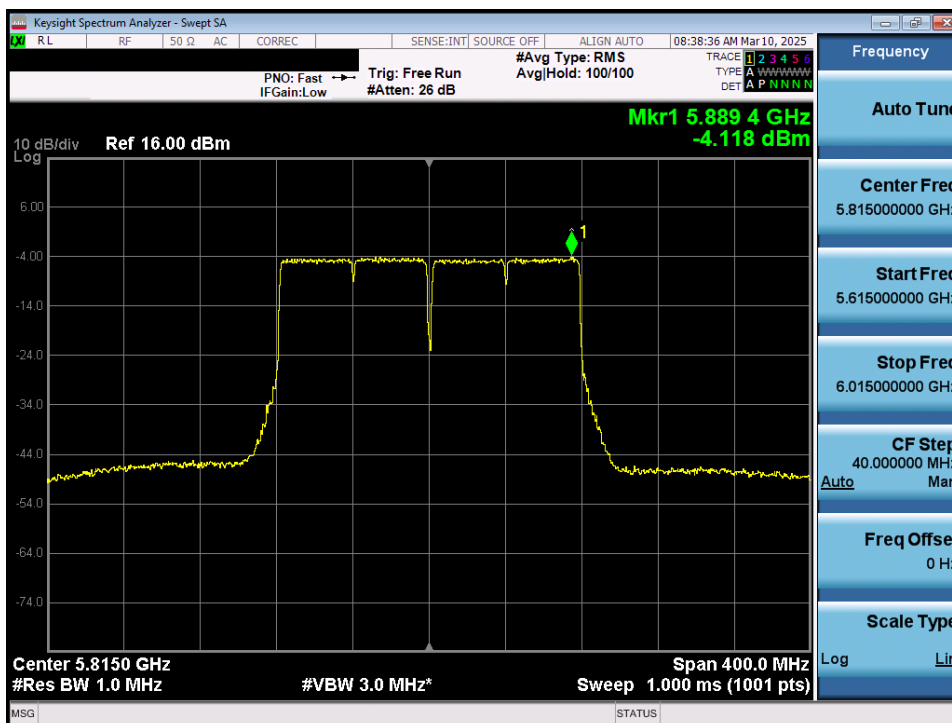


Plot 7-89. Power Spectral Density Plot MIMO ANT1 (80MHz 802.11ac (UNII Band 3/4) – Ch. 171)

FCC ID: A3LSMF966JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2504070040-07.A3L	Test Dates: 02/24/2025 - 05/05/2025	EUT Type: Portable Handset	Page 91 of 159

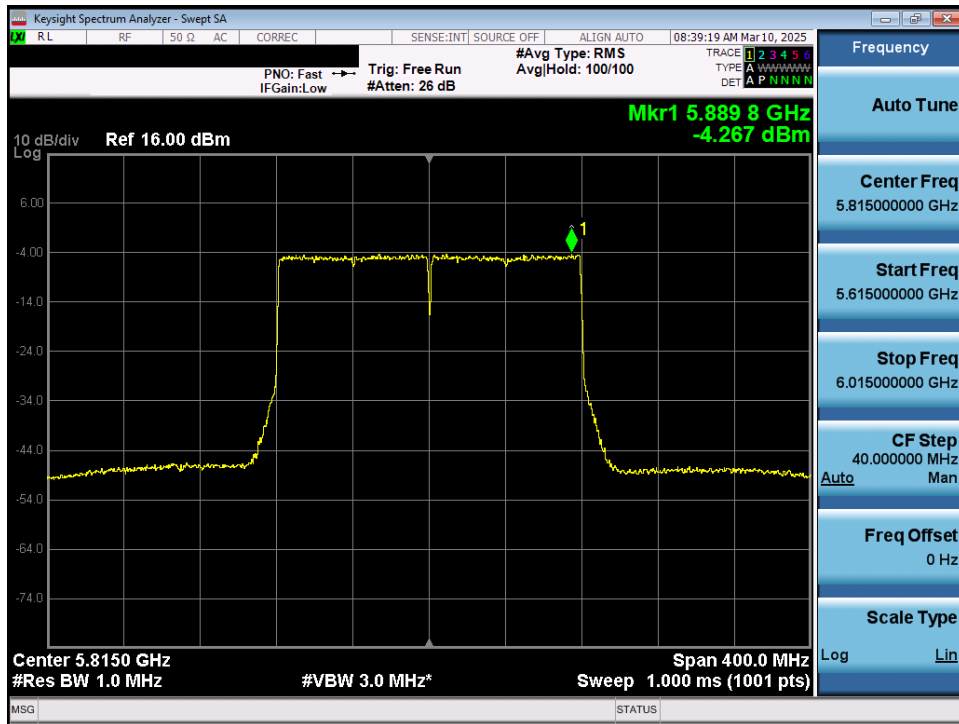


Plot 7-90. Power Spectral Density Plot MIMO ANT1 (80MHz 802.11ax/be (UNII Band 3/4) – Ch. 171)

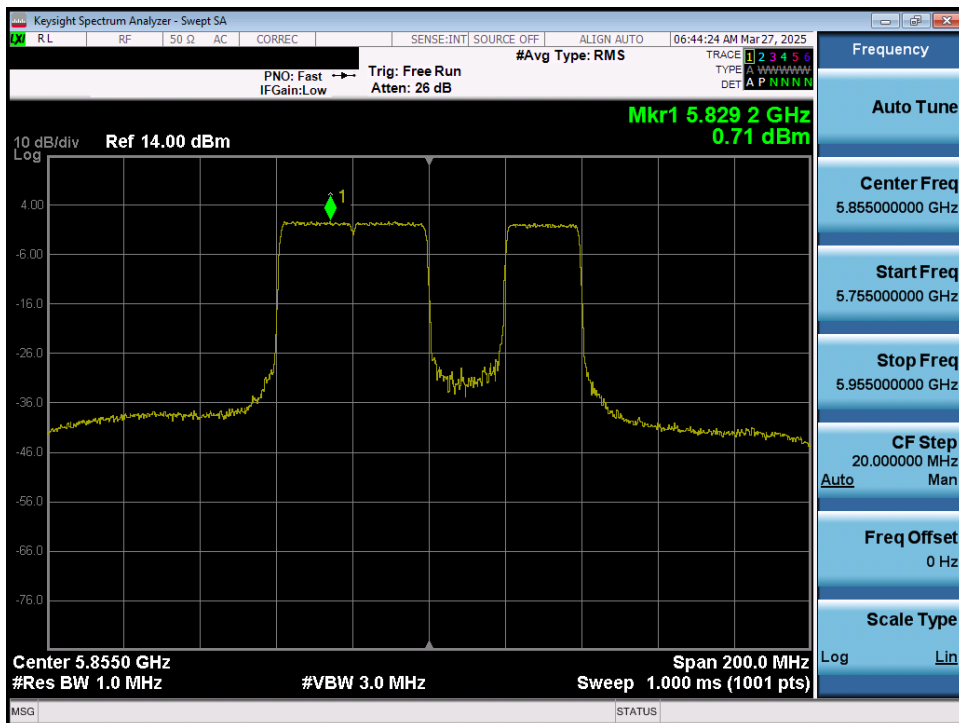


Plot 7-91. Power Spectral Density Plot MIMO ANT1 (160MHz 802.11ac (UNII Band 3/4) – Ch. 163)

FCC ID: A3LSMF966JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2504070040-07.A3L	Test Dates: 02/24/2025 - 05/05/2025	EUT Type: Portable Handset	Page 92 of 159



Plot 7-92. Power Spectral Density Plot MIMO ANT1 (160MHz 802.11ax/be (UNII Band 3/4) – Ch. 163)



Plot 7-93. Power Spectral Density Plot MIMO ANT1 (80MHz 802.11be (20MHz Puncture) (UNII Band 3/4) – Ch. 171)

FCC ID: A3LSMF966JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2504070040-07.A3L	Test Dates: 02/24/2025 - 05/05/2025	EUT Type: Portable Handset	Page 93 of 159