

**ELEMENT WASHINGTON DC LLC**

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<http://www.element.com>**MEASUREMENT REPORT
FCC PART 15.407 802.11ax (OFDMA)****Applicant Name:**

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

Date of Testing:

6/3 - 7/8/2025

Test Report Issue Date:

7/17/2025

Test Site/Location:

Element Lab., Columbia, MD, USA

Test Report Serial No.:

1M2505130050-12.A3L

FCC ID:**A3LSMX736B****APPLICANT:****Samsung Electronics Co., Ltd.****Application Type:**

Certification

Model:

SM-X736B

EUT Type:

Portable Tablet

Frequency Range:

5180 – 5885MHz

Modulation Type:

OFDMA

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

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

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

RJ Ortanez
Executive Vice President



FCC ID: A3LSMX736B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-12.A3L	Test Dates: 6/3 - 7/8/2025	EUT Type: Portable Tablet	Page 1 of 109

T A B L E O F C O N T E N T S

1.0	INTRODUCTION	4
1.1	Scope.....	4
1.2	Element Test Location.....	4
1.3	Test Facility / Accreditations.....	4
2.0	PRODUCT INFORMATION	5
2.1	Equipment Description	5
2.2	Device Capabilities.....	5
2.3	Antenna Description.....	7
2.4	Test Configuration.....	7
2.5	Software and Firmware	8
2.6	EMI Suppression Device(s) / Modifications.....	8
3.0	DESCRIPTION OF TESTS	9
3.1	Evaluation Procedure	9
3.2	Radiated Emissions.....	9
3.3	Environmental Conditions.....	9
4.0	ANTENNA REQUIREMENTS	10
5.0	MEASUREMENT UNCERTAINTY	11
6.0	TEST EQUIPMENT CALIBRATION DATA.....	12
7.0	TEST RESULTS	14
7.1	Summary.....	14
7.2	26dB Bandwidth Measurement.....	16
7.2.1	MIMO Antenna-1 26dB Bandwidth Measurements	19
7.2.2	MIMO Antenna-2 26dB Bandwidth Measurements	23
7.3	6dB Bandwidth Measurement	27
7.3.1	MIMO Antenna-1 6dB Bandwidth Measurements	29
7.3.2	MIMO Antenna-2 6dB Bandwidth Measurements	36
7.4	UNII Output Power Measurement.....	43
7.5	Maximum Power Spectral Density	47
7.5.1	MIMO Antenna-1 Power Spectral Density Measurements	52
7.5.2	MIMO Antenna-2 Power Spectral Density Measurements	63
7.6	Radiated Emission Measurements	76
7.6.1	MIMO Radiated Spurious Emission Measurements (26 Tones).....	82
7.6.2	MIMO Radiated Spurious Emission Measurements (242 Tones).....	88
7.6.3	MIMO Radiated Band Edge Measurements (20MHz BW – Partial Tone – 106T).....	94
7.6.4	MIMO Radiated Band Edge Measurements (20MHz BW – Full Tone – 242T).....	97
7.6.5	MIMO Radiated Band Edge Measurements (40MHz BW – Full Tone – 484T).....	100
7.6.6	MIMO Radiated Band Edge Measurements (80MHz BW – Full Tone – 996T).....	103
7.6.7	MIMO Radiated Band Edge Measurements (160MHz BW – Full Tone – 2x996T)	106
8.0	CONCLUSION.....	109

FCC ID: A3LSMX736B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-12.A3L	Test Dates: 6/3 - 7/8/2025	EUT Type: Portable Tablet	Page 2 of 109

MEASUREMENT REPORT

Channel Bandwidth [MHz]	UNII Band	Tx Frequency [MHz]	MIMO	
			Max. Power [mW]	Max. Power [dBm]
20	1	5180 - 5240	23.15	13.65
	2A	5260 - 5320	24.03	13.81
	2C	5500 - 5720	22.47	13.52
	3	5745 - 5825	23.18	13.65
	4	5845 - 5885	11.87	10.74
40	1	5190 - 5230	23.12	13.64
	2A	5270 - 5310	23.42	13.70
	2C	5510 - 5710	24.05	13.81
	3	5755 - 5795	21.43	13.31
	4	5835 - 5875	10.72	10.30
80	1	5210	22.07	13.44
	2A	5290	22.63	13.55
	2C	5530 - 5690	24.58	13.91
	3	5775	23.21	13.66
	4	5855	10.88	10.36
160	1/2A	5250	21.49	13.32
	2C	5570	22.40	13.50
	3/4	5815	11.48	10.60

EUT Overview

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

FCC ID: A3LSMX736B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-12.A3L	Test Dates: 6/3 - 7/8/2025	EUT Type: Portable Tablet	Page 3 of 109

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).

FCC ID: A3LSMX736B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-12.A3L	Test Dates: 6/3 - 7/8/2025	EUT Type: Portable Tablet	Page 4 of 109

2.0 PRODUCT INFORMATION

2.1 Equipment Description

The Equipment Under Test (EUT) is the **Samsung Portable Tablet FCC ID: A3LSMX736B**. The test data contained in this report pertains only to the emissions due to the EUT's UNII transmitter.

Test Device Serial No.: 18994, 19091, 19042, 18945, 19000, 19117, 19075, 24810, 26617, 24869, 26062, 25445, 26591

2.2 Device Capabilities

This device contains the following capabilities:

850/1900 GSM/GPRS/EDGE, 850/1700/1900 WCDMA/HSPA, Multi-band LTE, Multi-band 5G NR (FR1), 802.11b/g/n/ax WLAN, 802.11a/n/ac/ax UNII (5GHz and 6GHz), Bluetooth (1x, EDR, LE), Digitizer

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. 802.11ax (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. 802.11ax (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. 802.11ax (80MHz BW) Frequency / Channel Operations

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. 802.11ax (160MHz BW) Frequency / Channel Operations

FCC ID: A3LSMX736B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-12.A3L	Test Dates: 6/3 - 7/8/2025	EUT Type: Portable Tablet	Page 5 of 109

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:

Band	Bandwidth	Tone Type	Tone Size	MIMO (1+2)	
				Duty Cycle [%]	Radiated DCCF [dB]
5GHz	20MHz	RU	26T	99.27	N/A
			52T	98.66	N/A
			106T	98.57	N/A
			242T	98.46	N/A
	40MHz	RU	26T	99.35	N/A
			52T	98.77	N/A
			106T	98.61	N/A
			242T	98.46	N/A
			484T	98.50	N/A
	80MHz	RU	26T	99.35	N/A
			52T	98.77	N/A
			106T	98.65	N/A
			242T	98.41	N/A
			484T	98.50	N/A
			996T	98.38	N/A
	160MHz	RU	26T	99.33	N/A
			52T	98.77	N/A
			106T	98.65	N/A
			242T	98.46	N/A
			484T	98.50	N/A
			996T	98.33	N/A
			2x996T	98.43	N/A

Table 2-5. Measured Duty Cycles

FCC ID: A3LSMX736B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-12.A3L	Test Dates: 6/3 - 7/8/2025	EUT Type: Portable Tablet	Page 6 of 109

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

WiFi Configurations		SISO		SDM		CDD	
		ANT1	ANT2	ANT1	ANT2	ANT1	ANT2
5GHz	11ax	✓	✓	✓	✓	✓	✓

Table 2-6. Frequency / Channel Operations

✓ = Support; ✗ = NOT Support

SISO = Single Input Single Output

SDM = Spatial Diversity Multiplexing – MIMO function

CDD = Cyclic Delay Diversity – 2Tx Function

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

MCS Index	Spatial Stream	OFDMA (802.11ax)																	
		26T			52T			106T			242T			484T			996T		
		0.8µs GI	1.6µs GI	3.2µs GI	0.8µs GI	1.6µs GI	3.2µs GI	0.8µs GI	1.6µs GI	3.2µs GI	0.8µs GI	1.6µs GI	3.2µs GI	0.8µs GI	1.6µs GI	3.2µs GI	0.8µs GI	1.6µs GI	3.2µs GI
0	1	0.9	0.8	0.8	1.8	1.7	1.5	3.8	3.5	3.2	8.6	8.1	7.3	17.2	16.3	14.6	36	34	30.6
1	1	1.8	1.7	1.5	3.5	3.3	3	7.5	7.1	6.4	17.2	16.3	14.6	34.4	32.5	29.3	72.1	68.1	61.3
2	1	2.6	2.5	2.3	5.3	5	4.5	11.3	10.6	9.6	25.8	24.4	21.9	51.6	48.8	43.9	108.1	102.1	91.9
3	1	3.5	3.3	3	7.1	6.7	6	15	14.2	12.8	34.4	32.5	29.3	68.8	65	58.5	144.1	136.1	122.5
4	1	5.3	5	4.5	10.6	10	9	22.5	21.3	19.1	51.6	48.8	43.9	103.2	97.5	87.8	216.2	204.2	183.8
5	1	7.1	6.7	6	14.1	13.3	12	30	28.3	25.5	68.8	65	58.5	137.6	130	117	288.2	272.2	245
6	1	7.9	7.5	6.8	15.9	15	13.5	33.8	31.9	28.7	77.4	73.1	65.8	154.9	146.3	131.6	324.3	306.3	275.6
7	1	8.8	8.3	7.5	17.6	16.7	15	37.5	35.4	31.9	86	81.3	73.1	172.1	162.5	146.3	360.3	340.3	306.3
8	1	10.6	10	9	21.2	20	18	45	42.5	38.3	103.2	97.5	87.8	206.5	195	175.5	432.4	408.3	367.5
9	1	11.8	11.1	10	23.5	22.2	20	50	47.2	42.5	114.7	108.3	97.5	229.4	216.7	195	480.4	453.7	408.3
10	1	13.2	12.5	11.3	26.5	25	22.5	56.3	53.1	47.8	129	121.9	109.7	258.1	243.8	219.4	540.4	510.4	459.4
11	1	14.7	13.9	12.5	29.4	27.8	25	62.5	59	53.1	143.4	135.4	121.9	286.8	270.8	243.8	600.5	567.1	510.4
0	2	1.8	1.7	1.5	3.5	3.3	3	7.5	7.1	6.4	17.2	16.3	14.6	34.4	32.5	29.3	72.1	68.1	61.3
1	2	3.5	3.3	3	7.1	6.7	6	15	14.2	12.8	34.4	32.5	29.3	68.8	65	58.5	144.1	136.1	122.5
2	2	5.3	5	4.5	10.6	10	9	22.5	21.3	19.1	51.6	48.8	43.9	103.2	97.5	87.8	216.2	204.2	183.8
3	2	7.1	6.7	6	14.1	13.3	12	30	28.3	25.5	68.8	65	58.5	137.6	130	117	288.2	272.2	245
4	2	10.6	10	9	21.2	20	18	45	42.5	38.3	103.2	97.5	87.8	206.5	195	175.5	432.4	408.3	367.5
5	2	14.1	13.3	12	28.2	26.7	24	60	56.7	51	137.6	130	117	275.3	260	234	576.5	544.4	490
6	2	15.9	15	13.5	31.8	30	27	67.5	63.8	57.4	154.9	146.3	131.6	309.7	292.5	263.3	648.5	612.5	551.3
7	2	17.6	16.7	15	35.3	33.3	30	75	70.8	63.8	172.1	162.5	146.3	344.1	325	292.5	720.6	680.6	612.5
8	2	21.2	20	18	42.4	40	36	90	85	76.5	206.5	195	175.5	412.9	390	351	864.7	816.7	735
9	2	23.5	22.2	20	47.1	44.4	40	100	94.4	85	229.4	216.7	195	458.8	433.3	390	960.8	907.4	816.7
10	2	26.5	25	22.5	52.9	50	45	112.5	106.3	95.6	258.1	243.8	219.4	516.2	487.5	438.8	1080.9	1020.8	918.8
11	2	29.4	27.8	25	58.8	55.6	50	125	118.1	106.3	286.8	270.8	243.8	573.5	541.7	487.5	1201	1134.3	1020.8

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)
5.20	-9.5	-5.1	-4.01
5.30	-9.6	-4.8	-3.86
5.50	-7.8	-5.5	-3.56
5.80	-7.3	-5.1	-3.12
5.85	-6.9	-5.2	-3.00

Table 2-8. Antenna Peak Gain

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 the UNII 5GHz OFDM report for AC line conducted emissions test setups, 7.6 for radiated emissions test setups, and 7.2, 7.3, 7.4, and 7.5 for antenna port conducted emissions test setups.

FCC ID: A3LSMX736B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-12.A3L	Test Dates: 6/3 - 7/8/2025	EUT Type: Portable Tablet	Page 7 of 109



2.5 Software and Firmware

The test was conducted with software/firmware version X736BXXU0AUF8 installed on the EUT.

2.6 EMI Suppression Device(s) / Modifications

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

FCC ID: A3LSMX736B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-12.A3L	Test Dates: 6/3 - 7/8/2025	EUT Type: Portable Tablet	Page 8 of 109

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 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.

3.3 Environmental Conditions

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

FCC ID: A3LSMX736B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-12.A3L	Test Dates: 6/3 - 7/8/2025	EUT Type: Portable Tablet	Page 9 of 109

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.

FCC ID: A3LSMX736B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-12.A3L	Test Dates: 6/3 - 7/8/2025	EUT Type: Portable Tablet	Page 10 of 109

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

FCC ID: A3LSMX736B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-12.A3L	Test Dates: 6/3 - 7/8/2025	EUT Type: Portable Tablet	Page 11 of 109

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	5/7/2025	Annual	5/7/2026	US46470561
Agilent	N9030A	PXA Signal Analyzer (44GHz)	10/16/2024	Annual	10/16/2025	MY49430494
Anritsu	MA24408A	Microwave Peak Power Sensor	10/2/2024	Annual	10/2/2025	11675
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)	4/22/2025	Biennial	4/22/2027	218893
Keysight Technologies	N9020A	MXA Signal Analyzer	2/7/2025	Annual	2/7/2026	MY53421544
Keysight Technologies	N9030A	PXA Signal Analyzer	8/26/2024	Annual	8/26/2025	MY54490576
Keysight Technologies	N9030B	PXA Signal Analyzer	9/19/2024	Annual	9/19/2025	MY57141001
Pasternack	NMLC-2	Line Conducted Emissions Cable	3/25/2025	Annual	3/25/2026	NMLC-2
Rohde & Schwarz	TC-TA18	Vivaldi Antenna	4/15/2024	Biennial	4/15/2026	101058
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	ESW44	EMI Test Receiver (44GHz)	3/25/2025	Annual	3/25/2026	101716
Sunol	JB6	Bi-Log Antenna (20M-6GHz)	3/24/2025	Biennial	3/25/2027	A082816
Sunol	JB5	Bi-Log Antenna (20M-5GHz)	9/11/2024	Biennial	9/11/2026	A051107

Table 6-1. Test Equipment Calibration Table

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.

Equipment listed with "N/A" under calibration information was not used to make calibrated measurements.

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

FCC ID: A3LSMX736B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-12.A3L	Test Dates: 6/3 - 7/8/2025	EUT Type: Portable Tablet	Page 12 of 109

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
Pasternack Cable RG214/U	111815
Sucoflex Cable 106A	246420-001
MegaPhase (CAGE 1GVT4) Cable GR18-N5N5-24	14042714 001
MegaPhase (CAGE 1GVT4) Cable NC29-N1N1-324	20502201 001
Rohde & Schwarz SF Unit	102134
Minicircuits Cable CBL=0.5M-NMNM+	15440

Table 6-5. 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

FCC ID: A3LSMX736B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-12.A3L	Test Dates: 6/3 - 7/8/2025	EUT Type: Portable Tablet	Page 13 of 109

7.0 TEST RESULTS

7.1 Summary

Company Name: Samsung Electronics Co., Ltd.
 FCC ID: A3LSMX736B
 FCC Classification: Unlicensed National Information Infrastructure (NII)

FCC Part Section(s)	RSS Section(s)	Test Description	Test Limit	Test Condition	Test Result	Reference
N/A	RSS-Gen [6.7]	26dB Bandwidth	N/A	CONDUCTED	PASS	Section 7.2
15.407(e)	RSS-Gen [6.7]	6dB Bandwidth	>500kHz (5725-5850MHz and 5850 – 5895MHz)		PASS	Section 7.3
15.407 (a)(1)(iv), (a)(2), (a)(3)	RSS-247 [6.2]	Maximum Conducted Output Power	Maximum conducted powers must meet the limits detailed in 15.407 (a) (RSS-247 [6.2])		PASS	Section 7.4
15.407(a)(3)(iii)	RSS-247 [6.2]	Maximum e.i.r.p. (UNII-4, 5.85 – 5.895GHz)	< 30dBm		PASS	Section 7.4
15.407 (a)(1)(iv), (a)(2), (a)(3)(i)/(iii)	RSS-247 [6.2]	Maximum Power Spectral Density	Maximum power spectral density must meet the limits detailed in 15.407 (a) (RSS-247 [6.2])		PASS	Section 7.5
15.407(h)	RSS-247 [6.3]	Dynamic Frequency Selection	See DFS Test Report		PASS	See DFS Test Report
15.407(b)(1) – (b)(5)	RSS-247 [6.2]	Undesirable Emissions	Undesirable emissions must meet the limits detailed in 15.407(b) (RSS-247 [6.2])	RADIATED	PASS	Section 7.6
15.205, 15.407(b)(1) – (b)(5)	RSS-Gen [8.9]	General Field Strength Limits (Restricted Bands and Radiated Emission Limits)	Emissions in restricted bands must meet the radiated limits detailed in 15.209 (RSS-Gen [8.9])		PASS	Section 7.6, 7.7

Table 7-1. Summary of Test Results

FCC ID: A3LSMX736B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-12.A3L	Test Dates: 6/3 - 7/8/2025	EUT Type: Portable Tablet	Page 14 of 109

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 "UNII Automation," Version 4.7.
- 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 1.5.0.
- 6) 802.11ax/be OFDMA testing was performed for all signal tone configurations as specified by the 802.11ax standard. Worst case results are determined and reported per the guidance provided at the October 2018 TCB Workshop.
- 7) Only one RU index could be selected at a time, so no contiguous or non-contiguous RUs were considered for testing.

FCC ID: A3LSMX736B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-12.A3L	Test Dates: 6/3 - 7/8/2025	EUT Type: Portable Tablet	Page 15 of 109

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 12.5

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

The 26dB Bandwidth measurement for each channel was measured with the RU index showing the highest conducted power.

FCC ID: A3LSMX736B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-12.A3L	Test Dates: 6/3 - 7/8/2025	EUT Type: Portable Tablet	Page 16 of 109

MIMO 26dB Bandwidth Measurements

	Frequency [MHz]	802.11 MODE	Channel	Antenna-1 26dB Bandwidth [MHz]	Antenna-2 26dB Bandwidth [MHz]	Antenna-1 Occupied Bandwidth [MHz]	Antenna-2 Occupied Bandwidth [MHz]
Band 1	5180	ax (20MHz)	36	15.82	16.95	14.63	16.19
	5200	ax (20MHz)	40	19.36	19.14	18.20	18.24
	5240	ax (20MHz)	48	19.14	19.06	18.33	18.23
	5190	ax (40MHz)	38	22.48	18.26	21.89	15.39
	5230	ax (40MHz)	46	21.43	18.40	19.09	17.52
	5210	ax (80MHz)	42	56.03	54.73	43.35	45.48
Band 1/2A	5250	ax (160MHz)	50	39.48	42.75	48.59	49.85
Band 2A	5260	ax (20MHz)	52	19.15	10.84	15.30	10.22
	5280	ax (20MHz)	56	18.54	17.98	17.58	17.30
	5320	ax (20MHz)	64	15.74	19.15	14.76	18.32
	5270	ax (40MHz)	54	22.07	19.46	15.41	17.66
	5310	ax (40MHz)	62	16.02	19.17	15.26	18.28
	5290	ax (80MHz)	58	31.43	22.90	21.47	19.90
Band 2C	5500	ax (20MHz)	100	19.14	18.63	18.29	17.88
	5600	ax (20MHz)	120	18.62	19.14	17.86	18.22
	5720	ax (20MHz)	144	19.16	19.12	16.48	18.23
	5510	ax (40MHz)	102	15.84	15.61	14.82	14.43
	5590	ax (40MHz)	118	17.51	19.50	15.04	18.37
	5710	ax (40MHz)	142	15.69	17.94	14.69	17.03
	5530	ax (80MHz)	106	18.43	22.53	16.03	19.90
	5610	ax (80MHz)	122	30.45	22.02	23.28	19.74
	5690	ax (80MHz)	138	13.39	12.97	15.96	14.62
	5570	ax (160MHz)	114	41.11	43.19	48.92	44.39

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

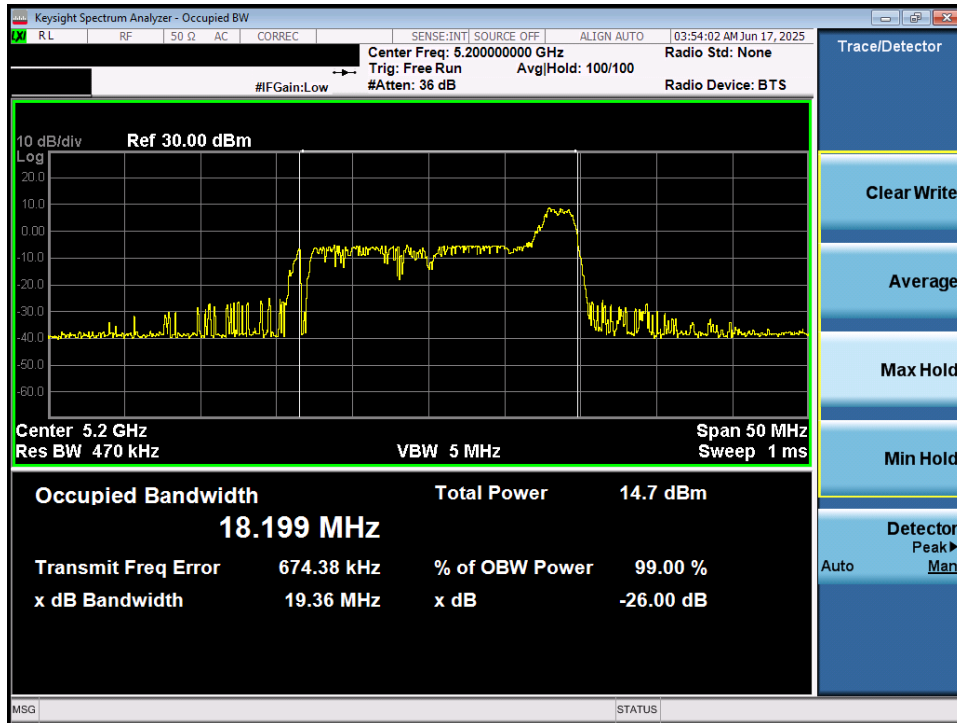
FCC ID: A3LSMX736B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-12.A3L	Test Dates: 6/3 - 7/8/2025	EUT Type: Portable Tablet	Page 17 of 109

	Frequency [MHz]	802.11 MODE	Channel	Antenna-1 26dB Bandwidth [MHz]	Antenna-2 26dB Bandwidth [MHz]	Antenna-1 Occupied Bandwidth [MHz]	Antenna-2 Occupied Bandwidth [MHz]
Band 1	5180	ax (20MHz)	36	23.26	23.56	18.91	18.89
	5200	ax (20MHz)	40	22.25	22.92	18.83	18.89
	5240	ax (20MHz)	48	20.12	20.04	18.84	18.78
	5190	ax (40MHz)	38	46.30	46.72	37.85	37.95
	5230	ax (40MHz)	46	40.16	40.00	37.55	37.60
	5210	ax (80MHz)	42	90.86	89.05	77.35	77.70
Band 1/2A	5250	ax (160MHz)	50	172.29	176.58	156.06	155.66
Band 2A	5260	ax (20MHz)	52	20.18	20.08	18.84	18.81
	5280	ax (20MHz)	56	20.11	20.09	18.81	18.81
	5320	ax (20MHz)	64	22.12	22.64	18.89	18.90
	5270	ax (40MHz)	54	40.07	39.98	37.62	37.64
	5310	ax (40MHz)	62	46.15	45.12	37.85	37.80
	5290	ax (80MHz)	58	99.34	98.79	78.06	78.86
Band 2C	5500	ax (20MHz)	100	24.31	22.21	18.85	18.89
	5600	ax (20MHz)	120	20.09	20.18	18.84	18.89
	5720	ax (20MHz)	144	20.07	20.10	18.80	18.81
	5510	ax (40MHz)	102	47.39	51.66	37.77	37.84
	5590	ax (40MHz)	118	40.00	50.31	37.64	37.87
	5710	ax (40MHz)	142	39.84	39.88	37.74	37.71
	5530	ax (80MHz)	106	100.92	88.74	77.76	77.64
	5610	ax (80MHz)	122	81.66	95.68	77.15	77.53
	5690	ax (80MHz)	138	81.57	81.80	77.13	77.13
	5570	ax (160MHz)	114	175.72	178.56	155.91	156.24

Table 7-3. Bands 1, 2A, 2C Conducted 26dB Bandwidth Measurements MIMO (Full Tones)

FCC ID: A3LSMX736B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-12.A3L	Test Dates: 6/3 - 7/8/2025	EUT Type: Portable Tablet	Page 18 of 109

7.2.1 MIMO Antenna-1 26dB Bandwidth Measurements



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

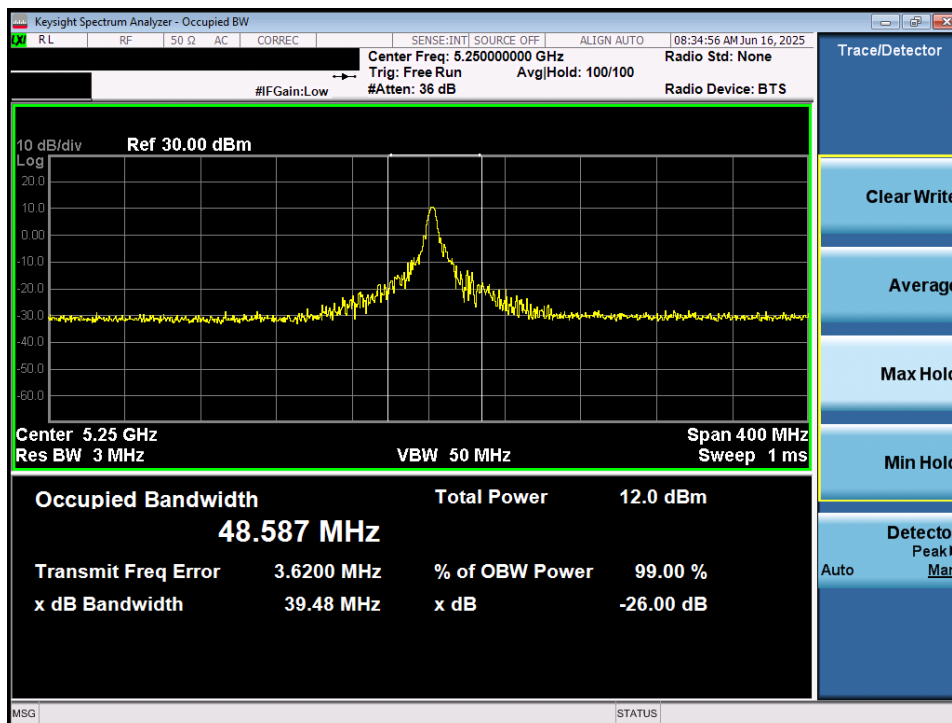


Plot 7-2. 26dB Bandwidth Plot MIMO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 38)

FCC ID: A3LSMX736B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-12.A3L	Test Dates: 6/3 - 7/8/2025	EUT Type: Portable Tablet	Page 19 of 109



Plot 7-3. 26dB Bandwidth Plot MIMO ANT1 (80MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 42)



Plot 7-4. 26dB Bandwidth Plot MIMO ANT1 (160MHz BW 802.11ax – 26 Tones (UNII Band 1/2A) – Ch. 50)

FCC ID: A3LSMX736B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-12.A3L	Test Dates: 6/3 - 7/8/2025	EUT Type: Portable Tablet	Page 20 of 109

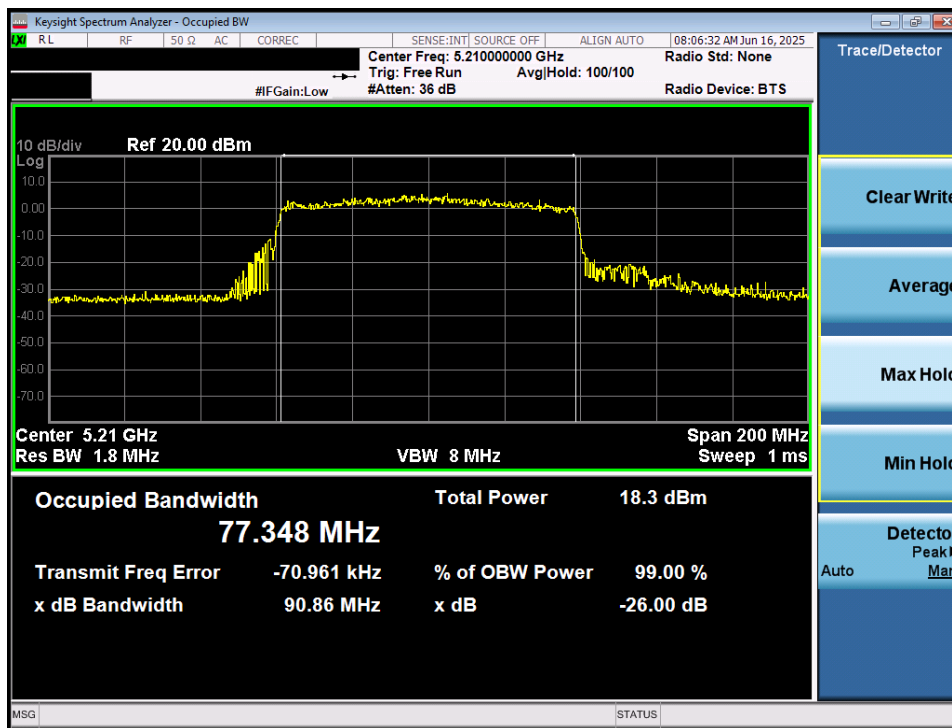


Plot 7-5. 26dB Bandwidth Plot MIMO ANT1 (20MHz BW 802.11ax – 242 Tones (UNII Band 1) – Ch. 40)

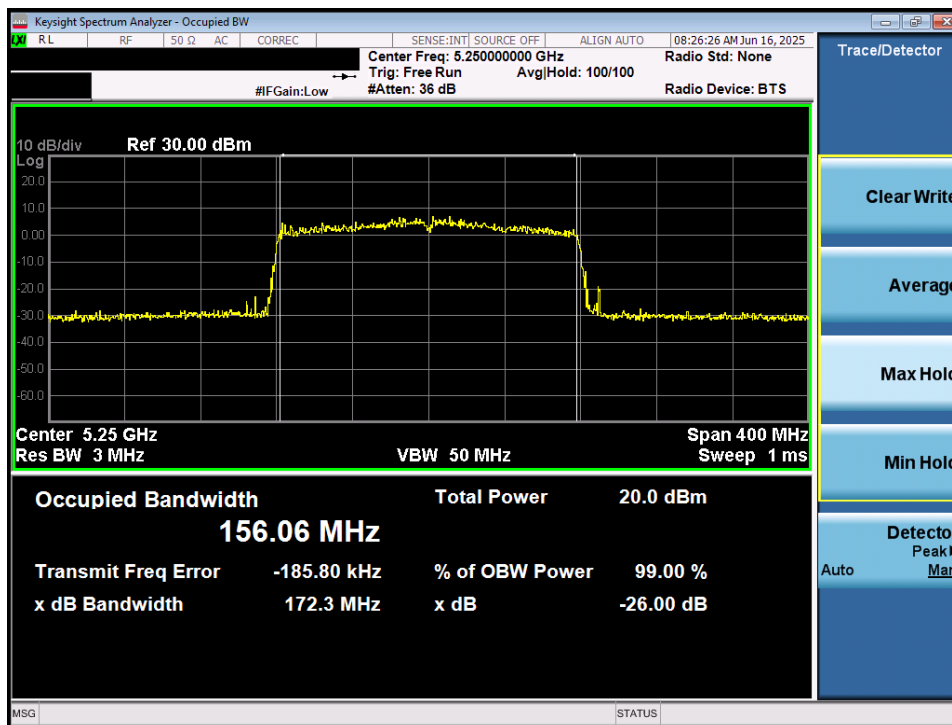


Plot 7-6. 26dB Bandwidth Plot MIMO ANT1 (40MHz BW 802.11ax – 484 Tones (UNII Band 1) – Ch. 38)

FCC ID: A3LSMX736B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-12.A3L	Test Dates: 6/3 - 7/8/2025	EUT Type: Portable Tablet	Page 21 of 109



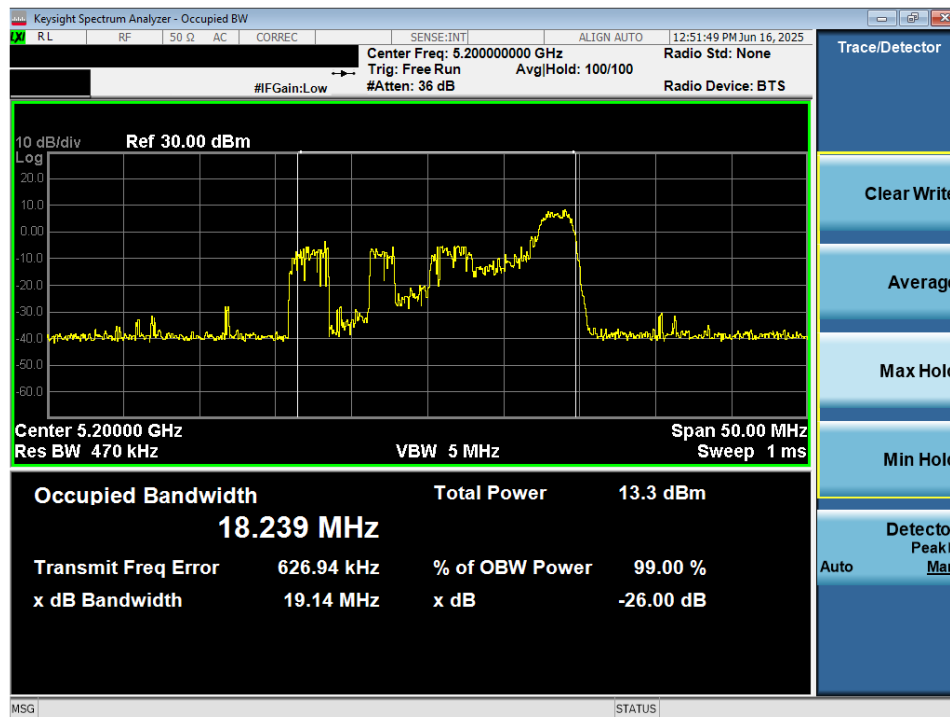
Plot 7-7. 26dB Bandwidth Plot MIMO ANT1 (80MHz BW 802.11ax – 996 Tones (UNII Band 1) – Ch. 42)



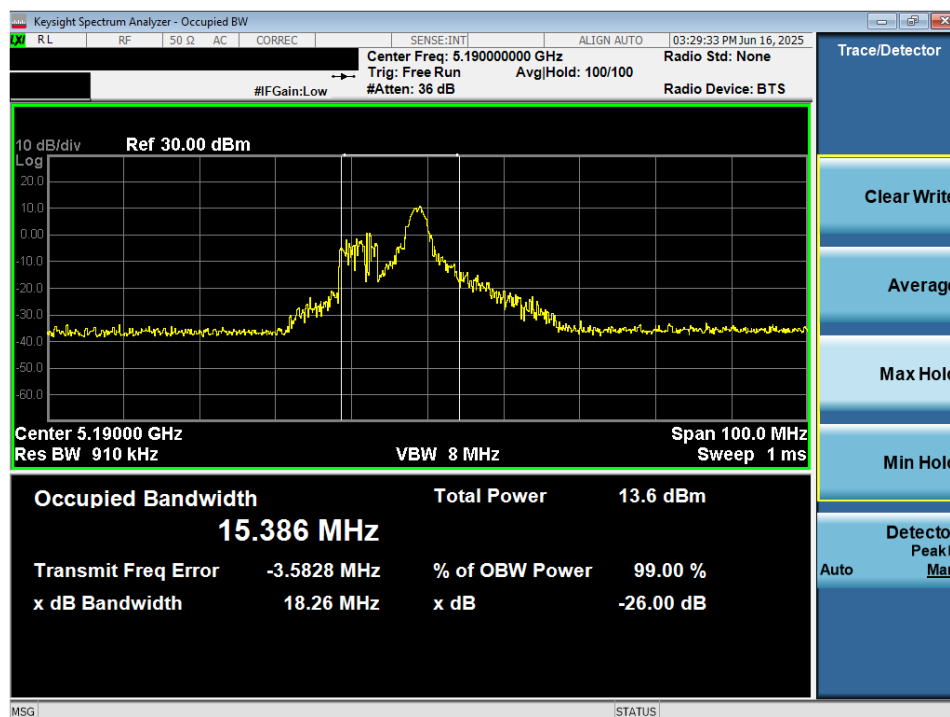
Plot 7-8. 26dB Bandwidth Plot MIMO ANT1 (160MHz BW 802.11ax – 2x996 Tones (UNII Band 1/2A) – Ch. 50)

FCC ID: A3LSMX736B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-12.A3L	Test Dates: 6/3 - 7/8/2025	EUT Type: Portable Tablet	Page 22 of 109

7.2.2 MIMO Antenna-2 26dB Bandwidth Measurements



Plot 7-9. 26dB Bandwidth Plot MIMO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 40)

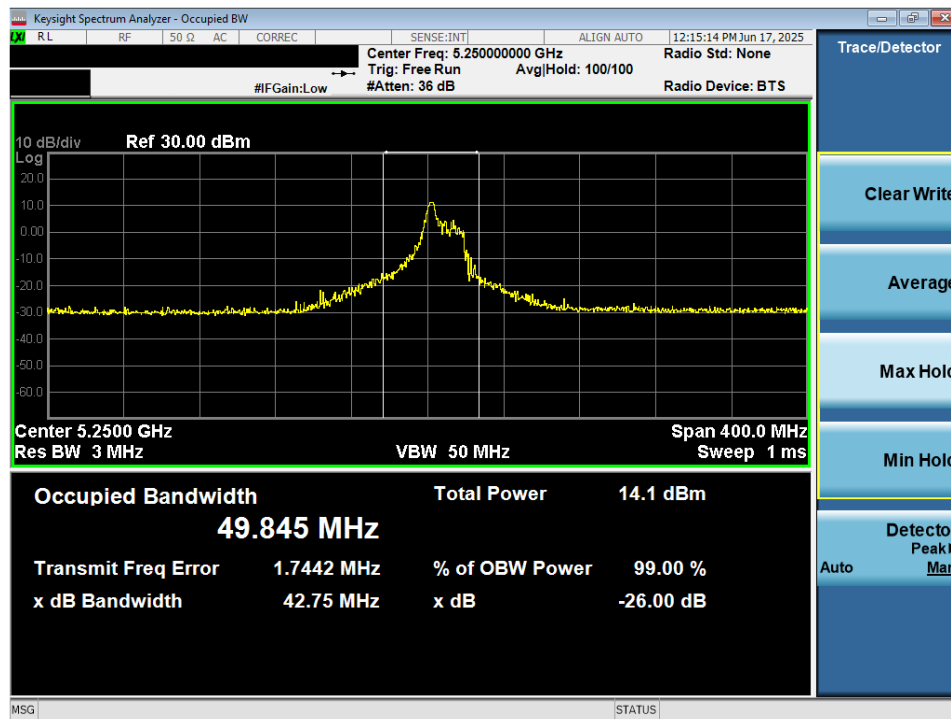


Plot 7-10. 26dB Bandwidth Plot MIMO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 38)

FCC ID: A3LSMX736B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-12.A3L	Test Dates: 6/3 - 7/8/2025	EUT Type: Portable Tablet	Page 23 of 109



Plot 7-11. 26dB Bandwidth Plot MIMO ANT2 (80MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 42)



Plot 7-12. 26dB Bandwidth Plot MIMO ANT2 (160MHz BW 802.11ax – 26 Tones (UNII Band 1/2A) – Ch. 50)

FCC ID: A3LSMX736B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-12.A3L	Test Dates: 6/3 - 7/8/2025	EUT Type: Portable Tablet	Page 24 of 109

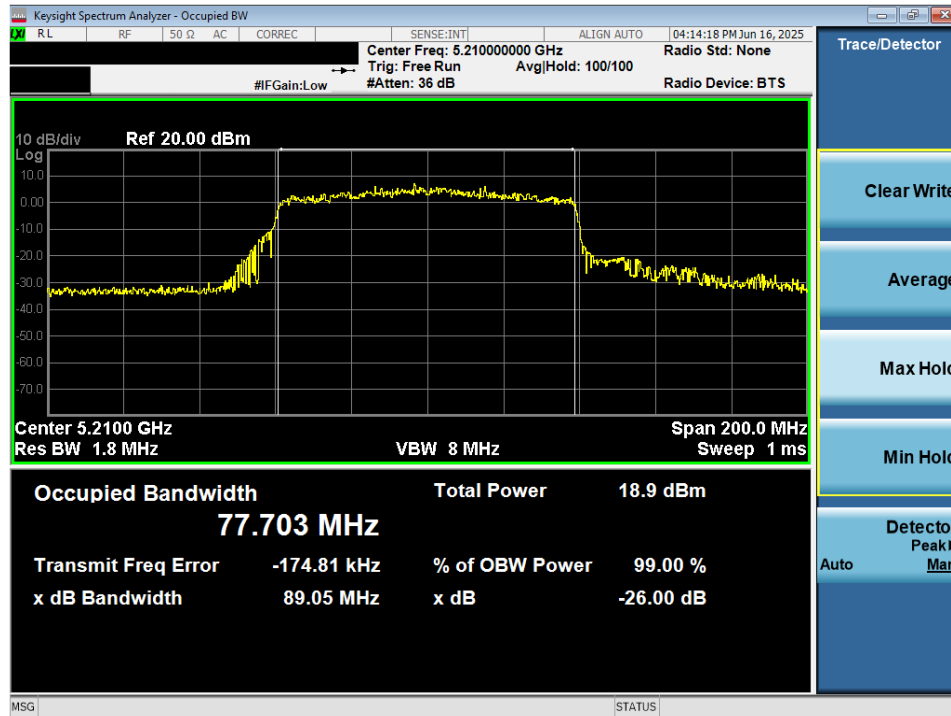


Plot 7-13. 26dB Bandwidth Plot MIMO ANT2 (20MHz BW 802.11ax – 242 Tones (UNII Band 1) – Ch. 40)

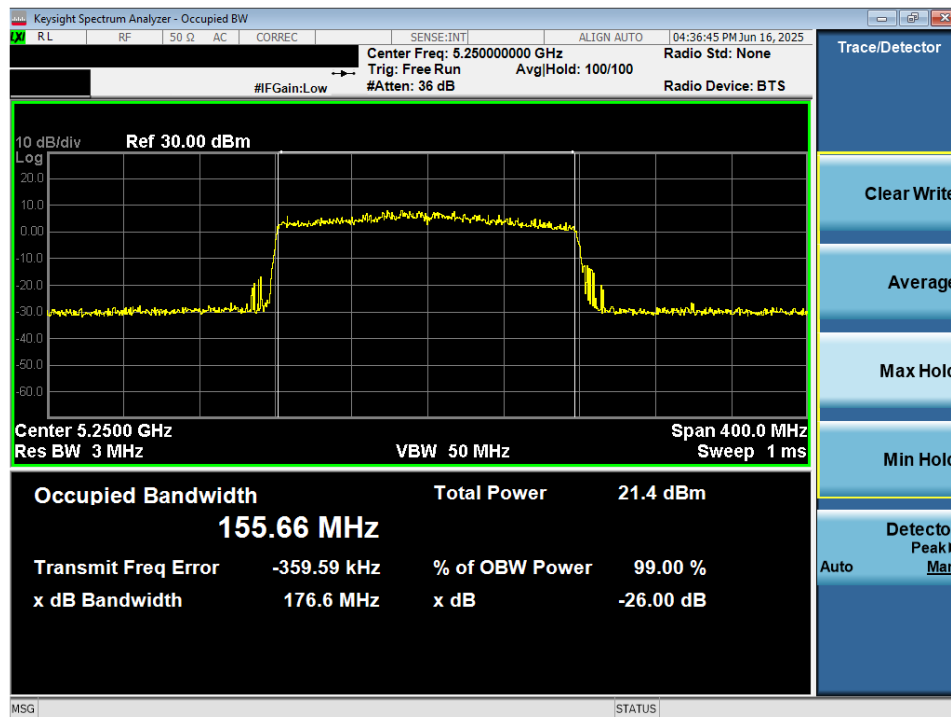


Plot 7-14. 26dB Bandwidth Plot MIMO ANT2 (40MHz BW 802.11ax – 484 Tones (UNII Band 1) – Ch. 38)

FCC ID: A3LSMX736B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-12.A3L	Test Dates: 6/3 - 7/8/2025	EUT Type: Portable Tablet	Page 25 of 109



Plot 7-15. 26dB Bandwidth Plot MIMO ANT2 (80MHz BW 802.11ax – 996 Tones (UNII Band 1) – Ch. 42)



Plot 7-16. 26dB Bandwidth Plot MIMO ANT2 (160MHz BW 802.11ax – 2x996 Tones (UNII Band 1/2A) – Ch. 50)

FCC ID: A3LSMX736B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-12.A3L	Test Dates: 6/3 - 7/8/2025	EUT Type: Portable Tablet	Page 26 of 109

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 and 5.850-5.895GHz bands, 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

The 6dB Bandwidth measurement for each channel was measured with the RU index showing the highest conducted power.

FCC ID: A3LSMX736B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-12.A3L	Test Dates: 6/3 - 7/8/2025	EUT Type: Portable Tablet	Page 27 of 109

MIMO 6dB Bandwidth Measurements

	Frequency [MHz]	802.11 MODE	Channel	Antenna-1 6dB Bandwidth [MHz]	Antenna-2 6dB Bandwidth [MHz]	Antenna-1 Occupied Bandwidth [MHz]	Antenna-2 Occupied Bandwidth [MHz]
Band 3	5745	ax (20MHz)	149	2.05	2.07	17.63	17.19
	5785	ax (20MHz)	157	2.06	2.07	18.26	18.22
	5825	ax (20MHz)	165	2.08	2.04	18.06	18.00
	5755	ax (40MHz)	151	2.09	2.21	16.84	17.59
	5795	ax (40MHz)	159	2.16	2.18	17.74	17.66
	5775	ax (80MHz)	155	2.27	2.28	18.44	17.83

Table 7-4. Band 3 Conducted 6dB Bandwidth Measurements MIMO (26 Tones)

	Frequency [MHz]	802.11 MODE	Channel	Antenna-1 6dB Bandwidth [MHz]	Antenna-2 6dB Bandwidth [MHz]	Antenna-1 Occupied Bandwidth [MHz]	Antenna-2 Occupied Bandwidth [MHz]
Band 4	5845	ax (20MHz)	169	2.02	2.05	17.30	17.28
	5865	ax (20MHz)	173	2.04	2.10	17.63	17.73
	5885	ax (20MHz)	177	2.01	2.10	16.72	17.57
	5835	ax (40MHz)	167	2.14	2.17	17.74	16.33
	5875	ax (40MHz)	175	2.12	2.08	17.32	17.58
	5855	ax (80MHz)	171	2.26	2.27	18.17	17.67
	5815	ax (160MHz)	163	2.60	2.58	18.64	18.36

Table 7-5. Bands 3/4 Conducted 6dB Bandwidth Measurements MIMO (26 Tones)

	Frequency [MHz]	802.11 MODE	Channel	Antenna-1 6dB Bandwidth [MHz]	Antenna-2 6dB Bandwidth [MHz]	Antenna-1 Occupied Bandwidth [MHz]	Antenna-2 Occupied Bandwidth [MHz]
Band 3	5745	ax (20MHz)	149	17.68	17.78	18.78	18.76
	5785	ax (20MHz)	157	17.56	17.83	18.76	18.74
	5825	ax (20MHz)	165	16.64	17.23	18.78	18.78
	5755	ax (40MHz)	151	36.15	35.64	37.56	37.49
	5795	ax (40MHz)	159	35.15	36.06	37.48	37.52
	5775	ax (80MHz)	155	75.27	75.81	76.74	76.73

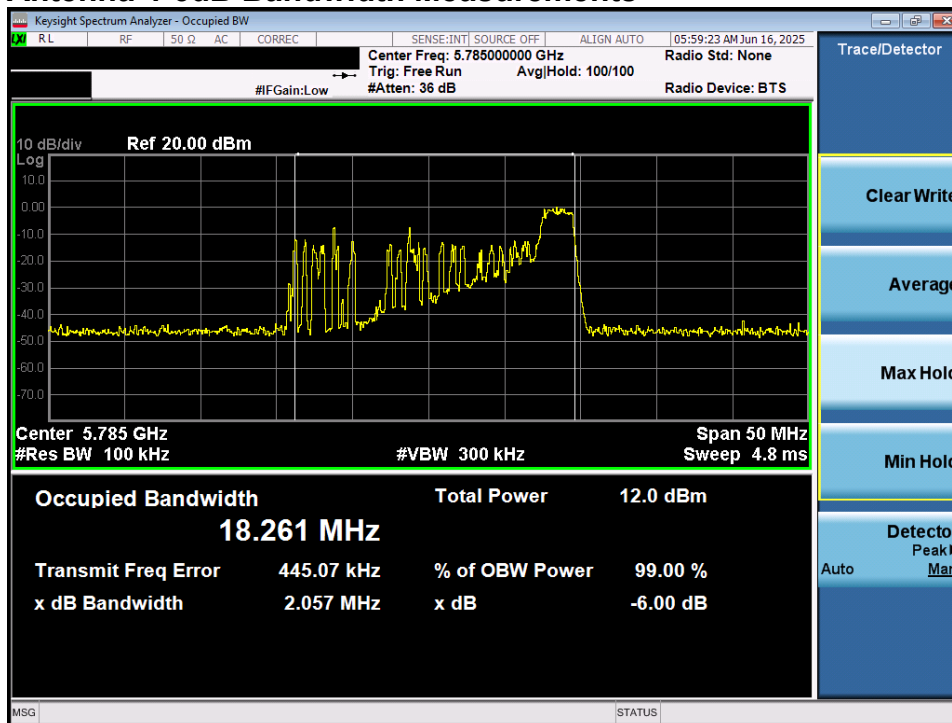
Table 7-6. Band 3 Conducted 6dB Bandwidth Measurements MIMO (Full Tones)

	Frequency [MHz]	802.11 MODE	Channel	Antenna-1 6dB Bandwidth [MHz]	Antenna-2 6dB Bandwidth [MHz]	Antenna-1 Occupied Bandwidth [MHz]	Antenna-2 Occupied Bandwidth [MHz]
Band 4	5845	ax (20MHz)	169	17.01	17.92	18.75	18.76
	5865	ax (20MHz)	173	17.88	16.69	18.77	18.76
	5885	ax (20MHz)	177	18.04	16.99	18.73	18.77
	5835	ax (40MHz)	167	35.56	35.21	37.46	37.42
	5875	ax (40MHz)	175	37.05	35.15	37.50	37.52
	5855	ax (80MHz)	171	76.72	74.18	76.86	76.92
Band 3/4	5815	ax (160MHz)	163	155.50	155.61	155.13	155.41

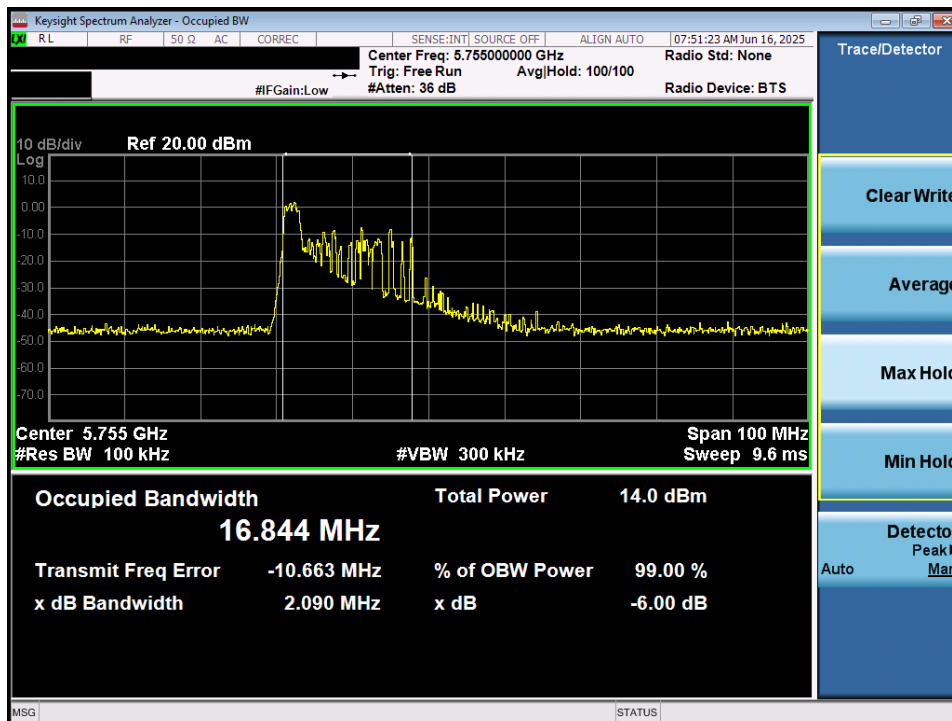
Table 7-7. Bands 3/4 Conducted 6dB Bandwidth Measurements MIMO (Full Tones)

FCC ID: A3LSMX736B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-12.A3L	Test Dates: 6/3 - 7/8/2025	EUT Type: Portable Tablet	Page 28 of 109

7.3.1 MIMO Antenna-1 6dB Bandwidth Measurements

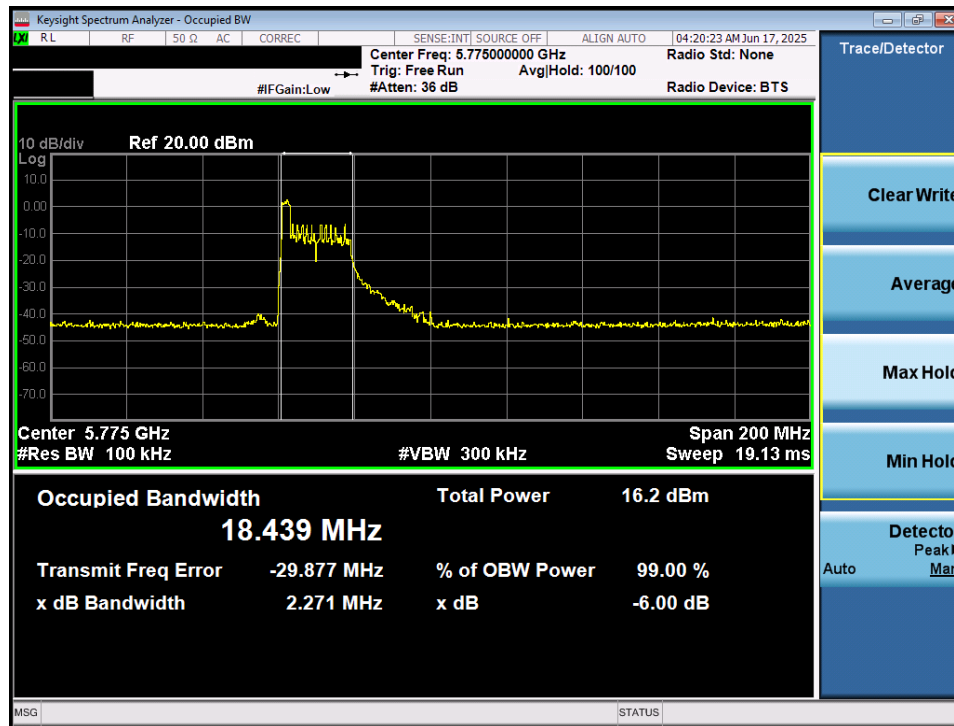


Plot 7-17. 6dB Bandwidth Plot MIMO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 157)

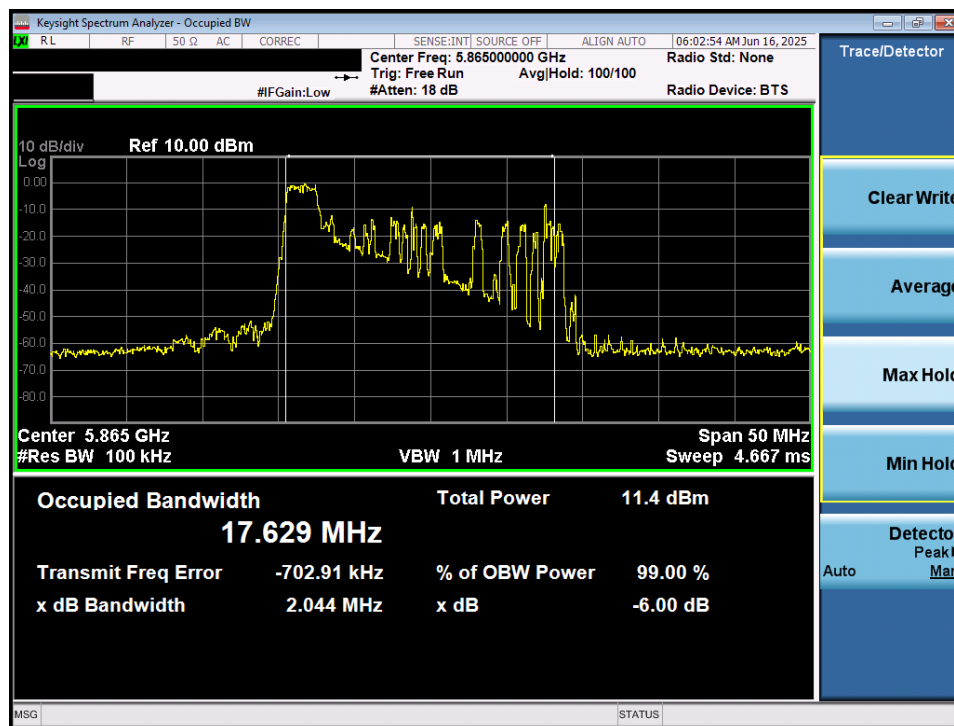


Plot 7-18. 6dB Bandwidth Plot MIMO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 151)

FCC ID: A3LSMX736B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-12.A3L	Test Dates: 6/3 - 7/8/2025	EUT Type: Portable Tablet	Page 29 of 109

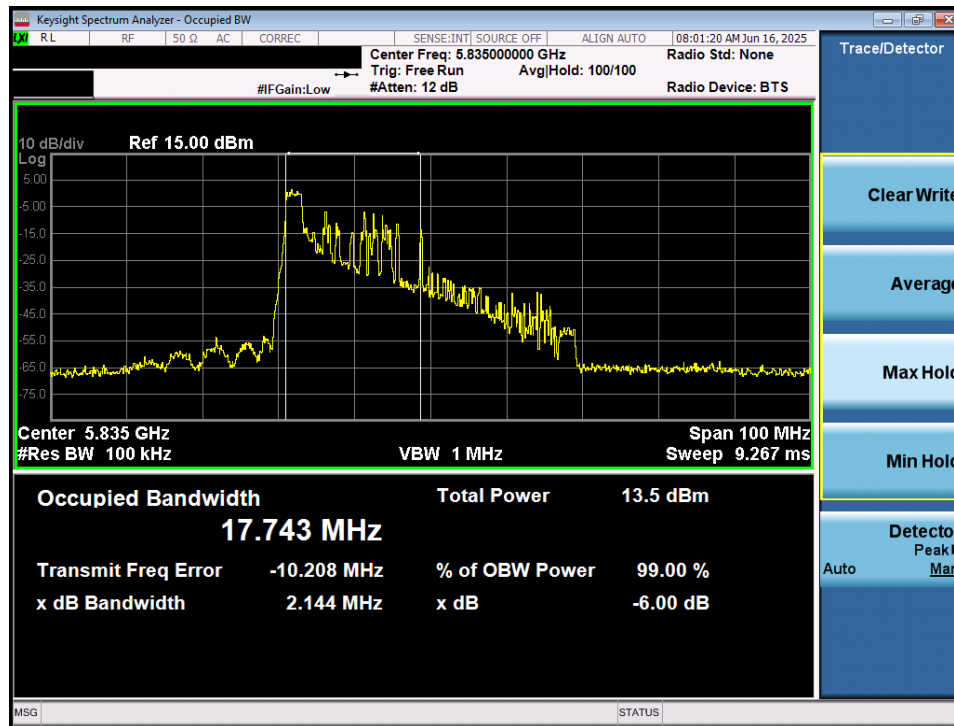


Plot 7-19. 6dB Bandwidth Plot MIMO ANT1 (80MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 155)

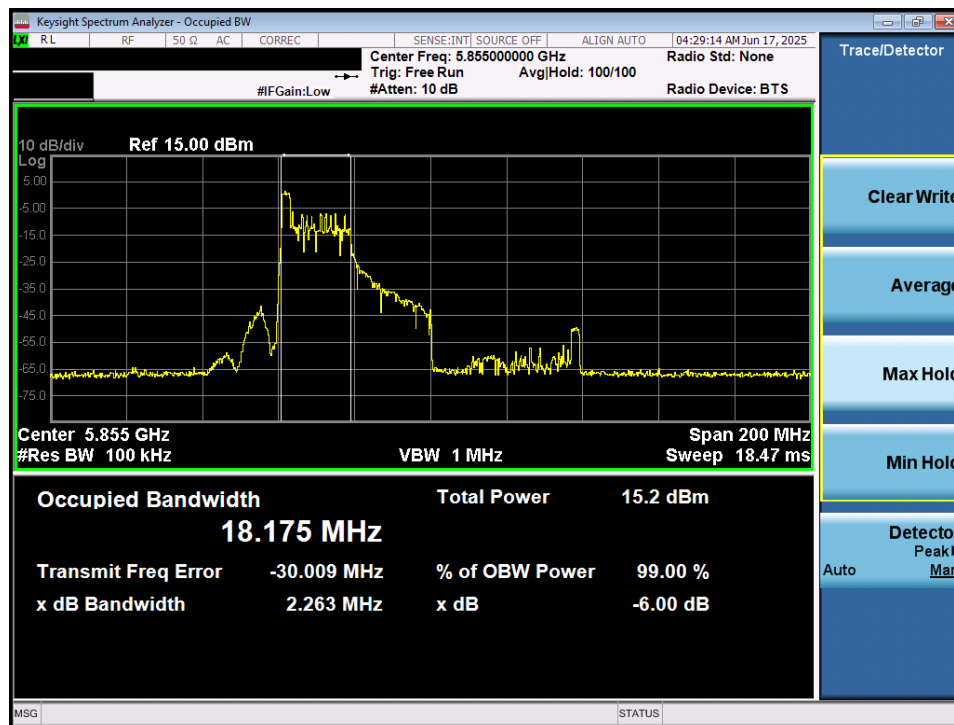


Plot 7-20. 6dB Bandwidth Plot MIMO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 4) – Ch. 173)

FCC ID: A3LSMX736B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-12.A3L	Test Dates: 6/3 - 7/8/2025	EUT Type: Portable Tablet	Page 30 of 109

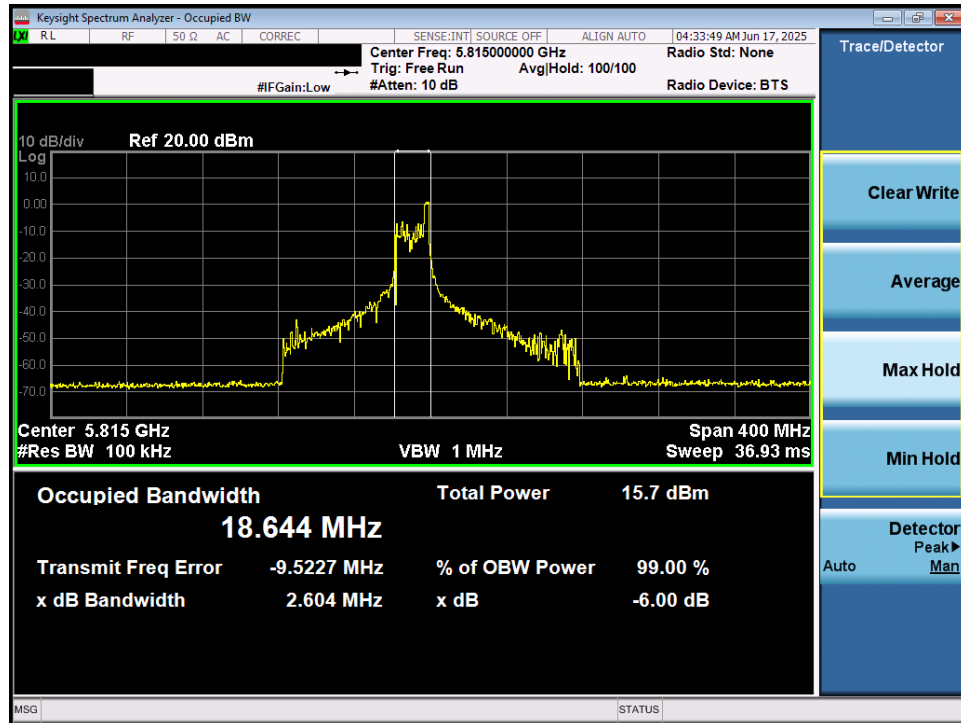


Plot 7-21. 6dB Bandwidth Plot MIMO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 3/4) – Ch. 167)

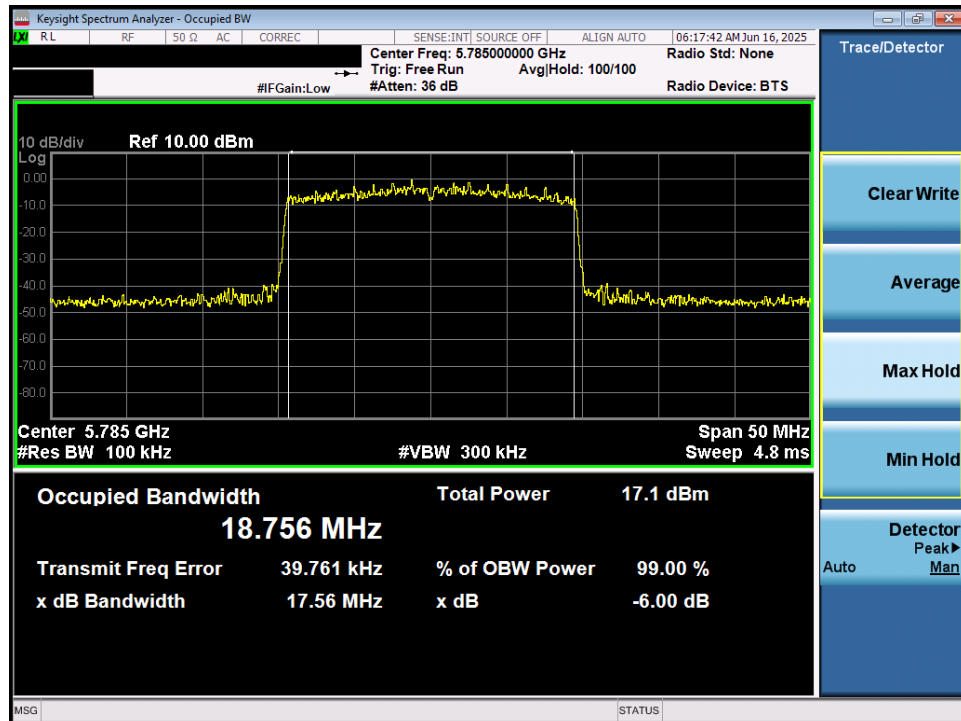


Plot 7-22. 6dB Bandwidth Plot MIMO ANT1 (80MHz BW 802.11ax – 26 Tones (UNII Band 3/4) – Ch. 171)

FCC ID: A3LSMX736B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-12.A3L	Test Dates: 6/3 - 7/8/2025	EUT Type: Portable Tablet	Page 31 of 109



Plot 7-23. 6dB Bandwidth Plot MIMO ANT1 (160MHz(U) BW 802.11ax – 26 Tones (UNII Band 3/4) – Ch. 163)

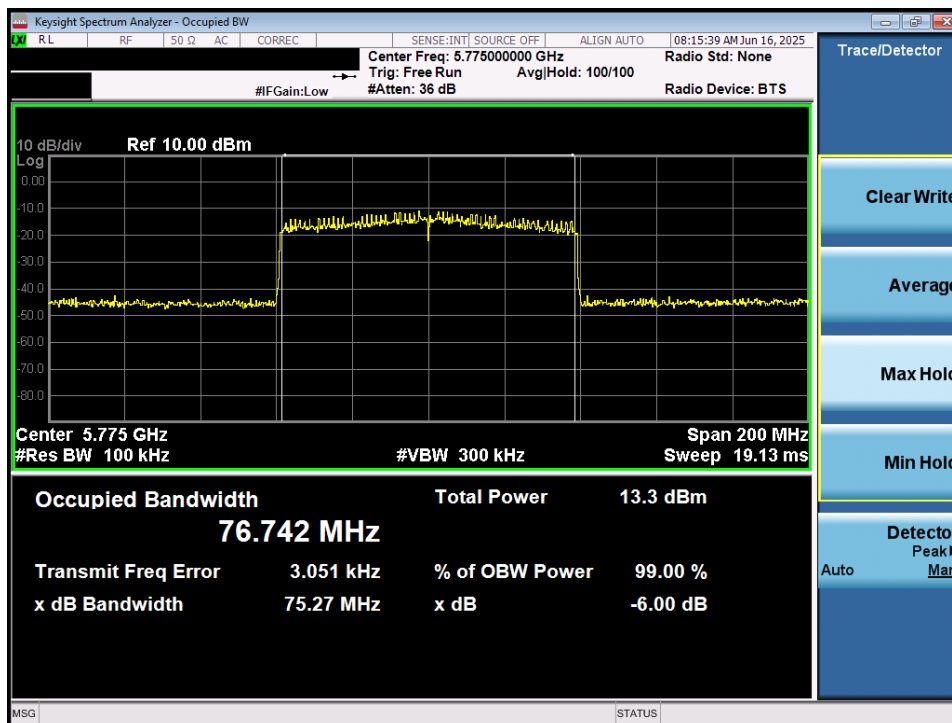


Plot 7-24. 6dB Bandwidth Plot MIMO ANT1 (20MHz BW 802.11ax – 242 Tones (UNII Band 3) – Ch. 157)

FCC ID: A3LSMX736B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-12.A3L	Test Dates: 6/3 - 7/8/2025	EUT Type: Portable Tablet	Page 32 of 109

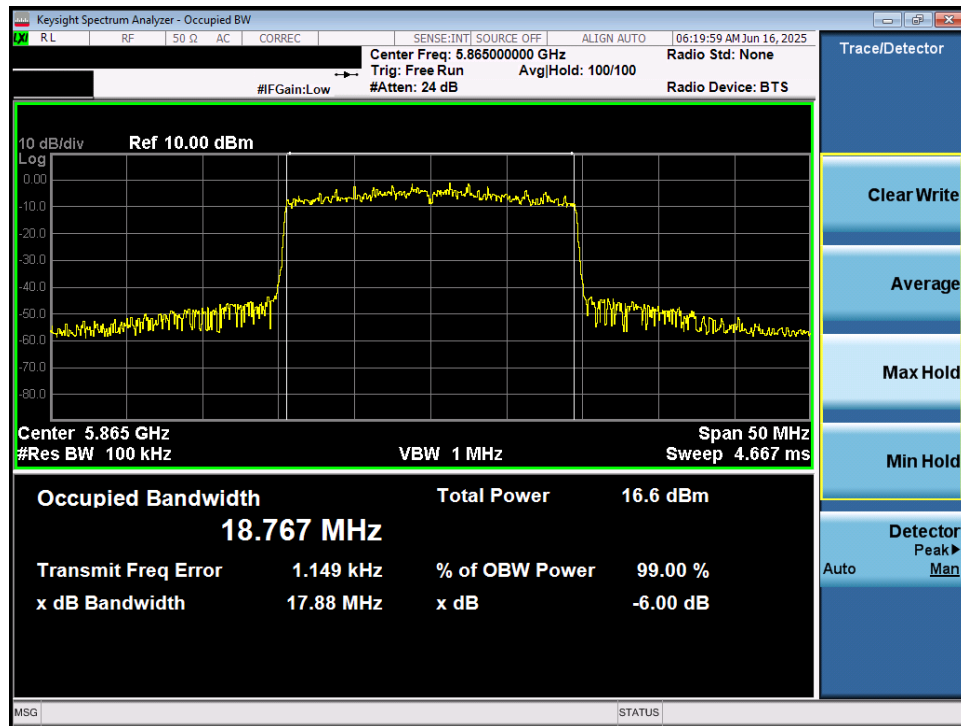


Plot 7-25. 6dB Bandwidth Plot MIMO ANT1 (40MHz BW 802.11ax – 484 Tones (UNII Band 3) – Ch. 151)



Plot 7-26. 6dB Bandwidth Plot MIMO ANT1 (80MHz BW 802.11ax – 996 Tones (UNII Band 3) – Ch. 155)

FCC ID: A3LSMX736B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-12.A3L	Test Dates: 6/3 - 7/8/2025	EUT Type: Portable Tablet	Page 33 of 109



Plot 7-27. 6dB Bandwidth Plot MIMO ANT1 (20MHz BW 802.11ax – 242 Tones (UNII Band 4) – Ch. 173)

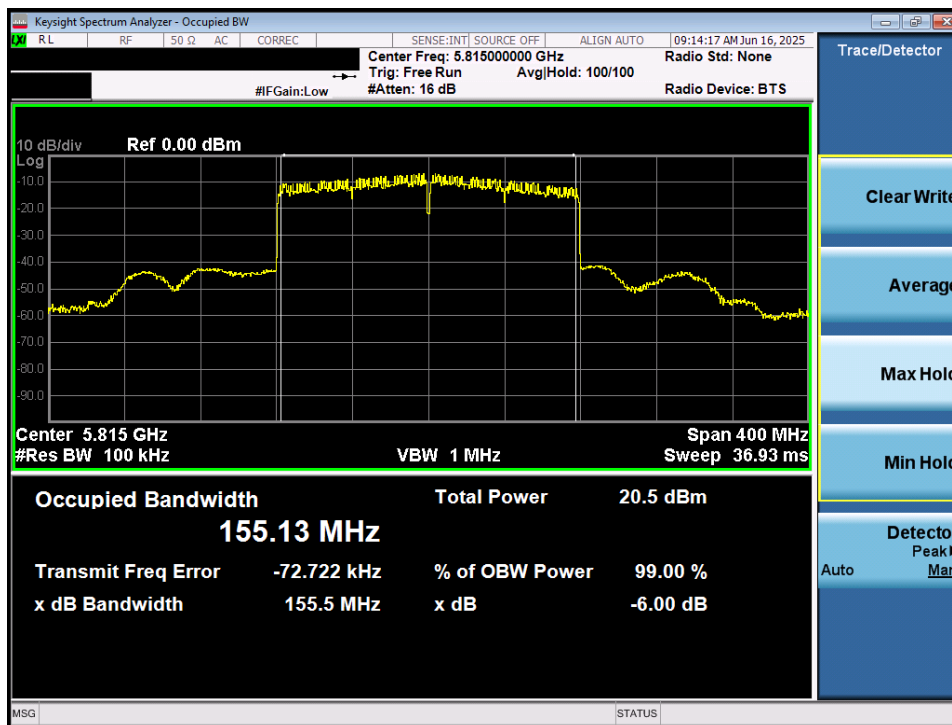


Plot 7-28. 6dB Bandwidth Plot MIMO ANT1 (40MHz BW 802.11ax – 484 Tones (UNII Band 3/4) – Ch. 167)

FCC ID: A3LSMX736B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-12.A3L	Test Dates: 6/3 - 7/8/2025	EUT Type: Portable Tablet	Page 34 of 109



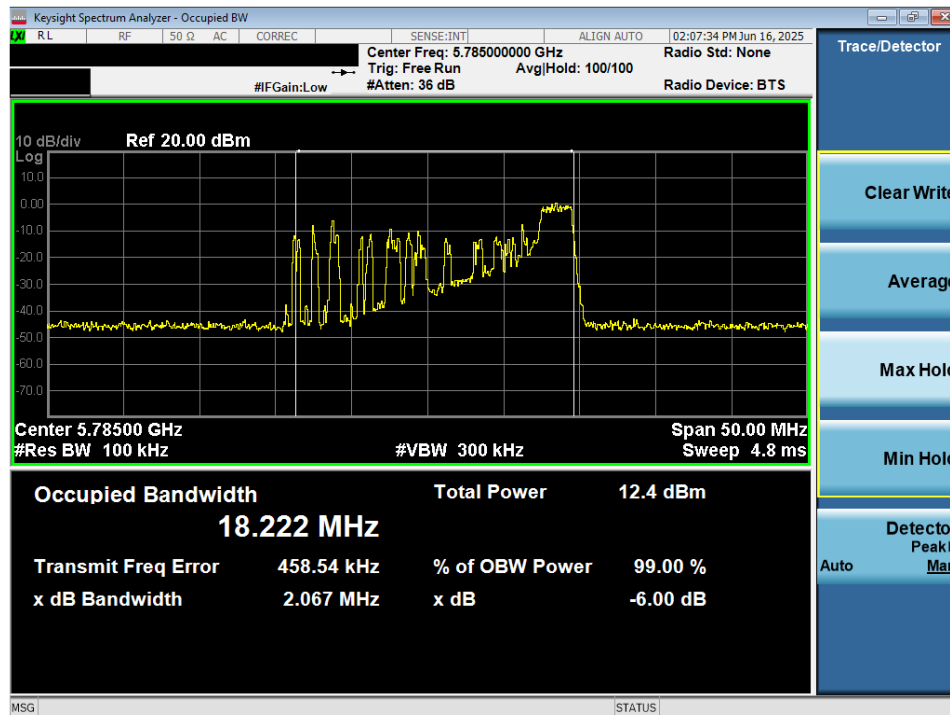
Plot 7-29. 6dB Bandwidth Plot MIMO ANT1 (80MHz BW 802.11ax – 996 Tones (UNII Band 3/4) – Ch. 171)



Plot 7-30. 6dB Bandwidth Plot MIMO ANT1 (160MHz BW 802.11ax – 996*2 Tones (UNII Band 3/4) – Ch. 163)

FCC ID: A3LSMX736B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-12.A3L	Test Dates: 6/3 - 7/8/2025	EUT Type: Portable Tablet	Page 35 of 109

7.3.2 MIMO Antenna-2 6dB Bandwidth Measurements

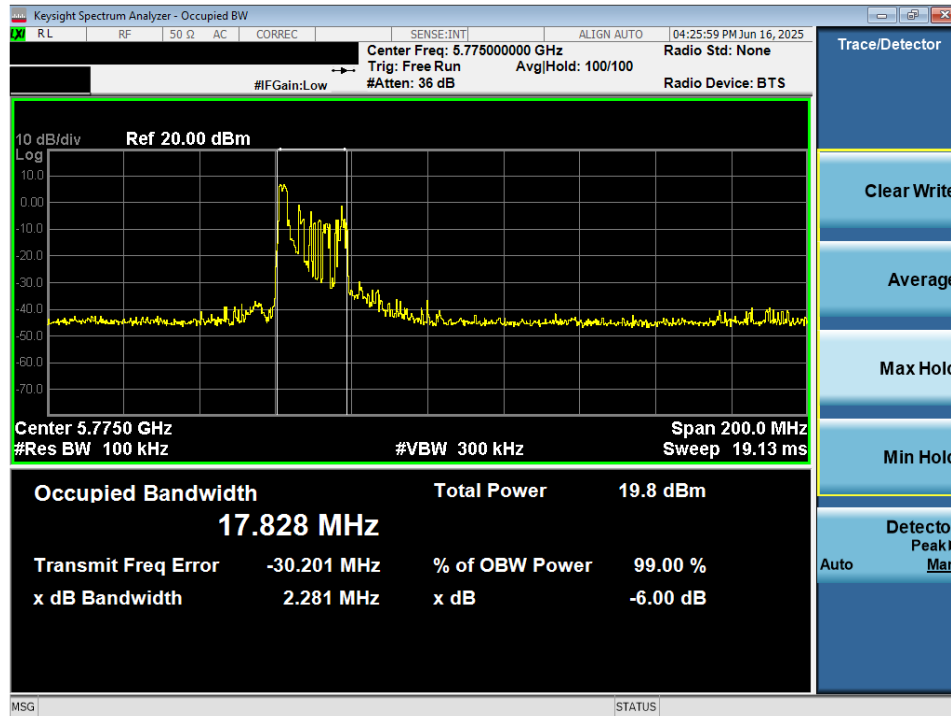


Plot 7-31. 6dB Bandwidth Plot MIMO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 157)

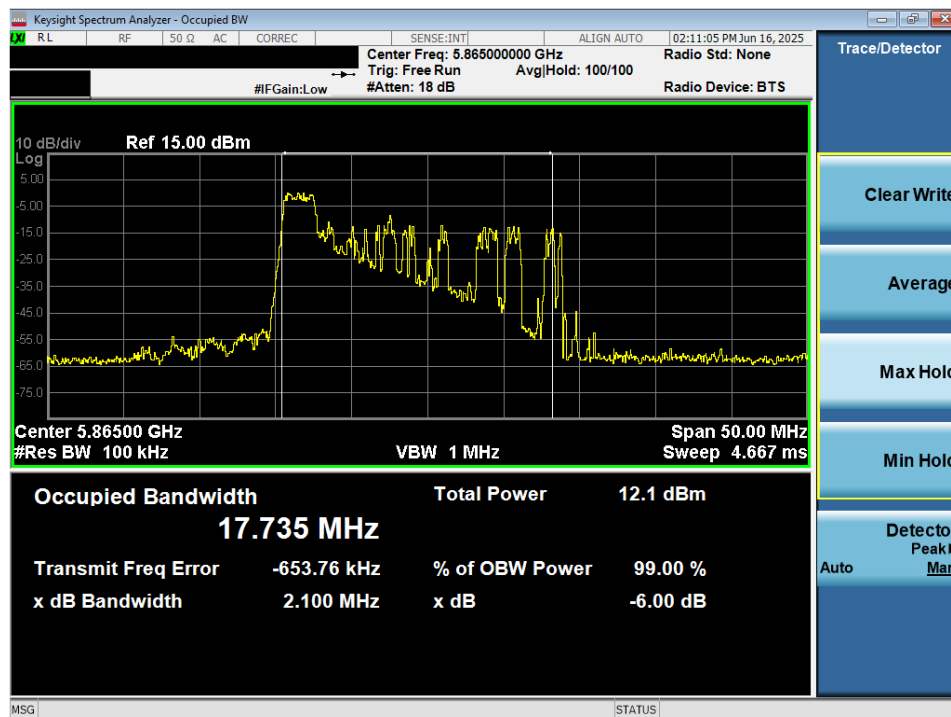


Plot 7-32. 6dB Bandwidth Plot MIMO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 151)

FCC ID: A3LSMX736B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-12.A3L	Test Dates: 6/3 - 7/8/2025	EUT Type: Portable Tablet	Page 36 of 109

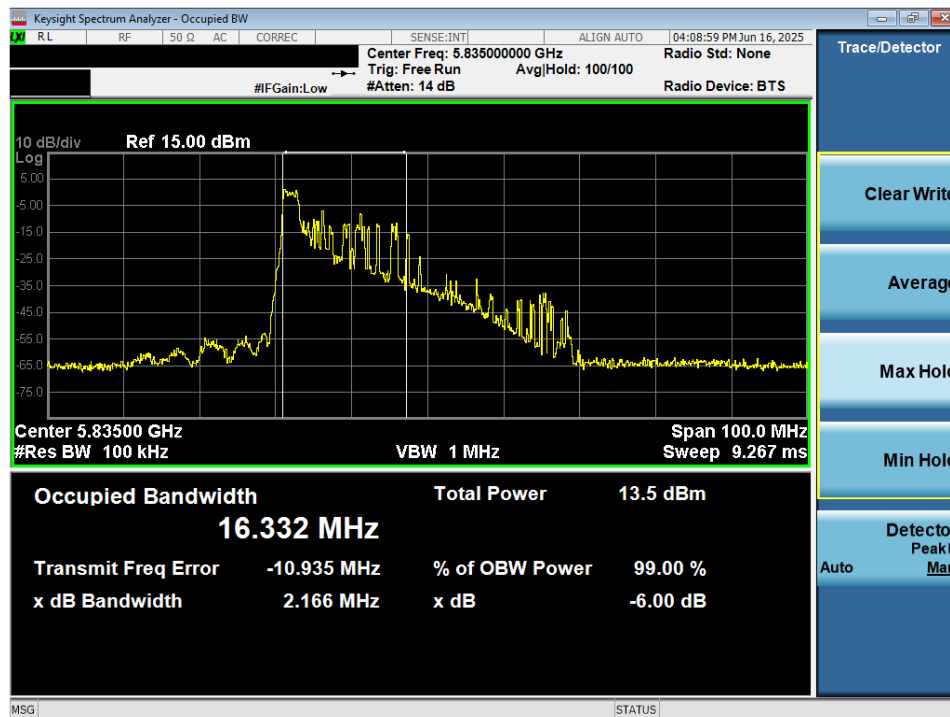


Plot 7-33. 6dB Bandwidth Plot MIMO ANT2 (80MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 155)



Plot 7-34. 6dB Bandwidth Plot MIMO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 4) – Ch. 173)

FCC ID: A3LSMX736B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-12.A3L	Test Dates: 6/3 - 7/8/2025	EUT Type: Portable Tablet	Page 37 of 109

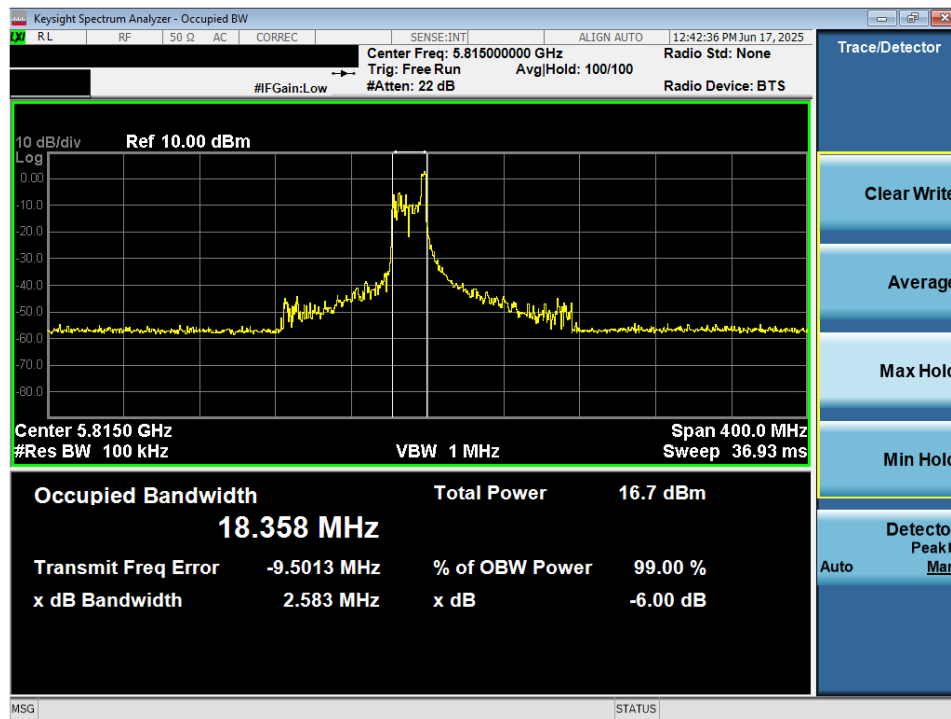


Plot 7-35. 6dB Bandwidth Plot MIMO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 3/4) – Ch. 167)

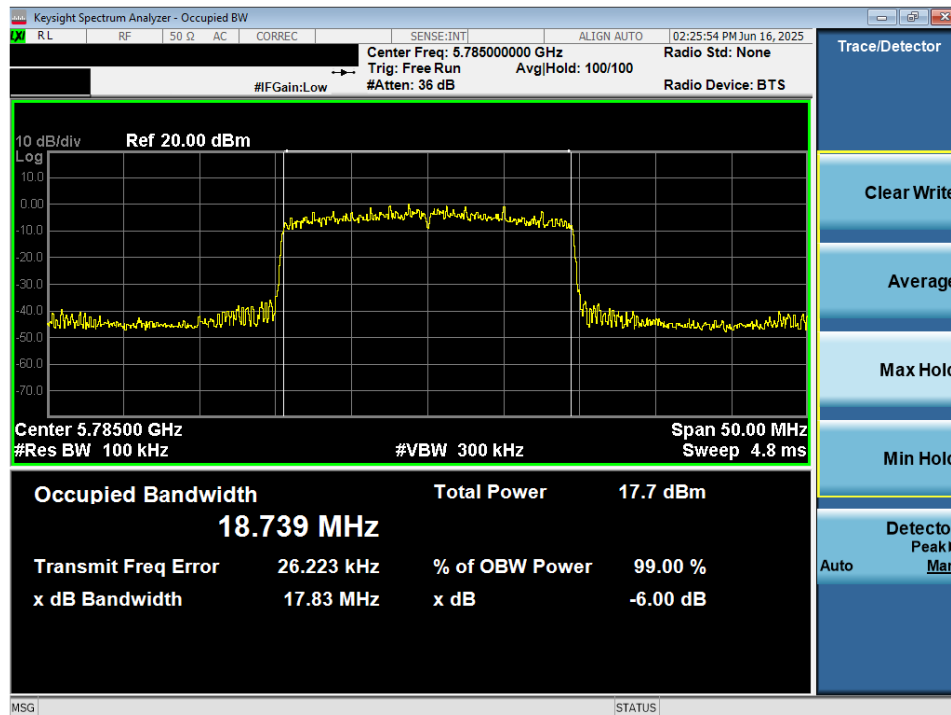


Plot 7-36. 6dB Bandwidth Plot MIMO ANT2 (80MHz BW 802.11ax – 26 Tones (UNII Band 3/4) – Ch. 171)

FCC ID: A3LSMX736B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-12.A3L	Test Dates: 6/3 - 7/8/2025	EUT Type: Portable Tablet	Page 38 of 109



Plot 7-37. 6dB Bandwidth Plot MIMO ANT2 (160MHz(U) BW 802.11ax – 26 Tones (UNII Band 3/4) – Ch. 163)

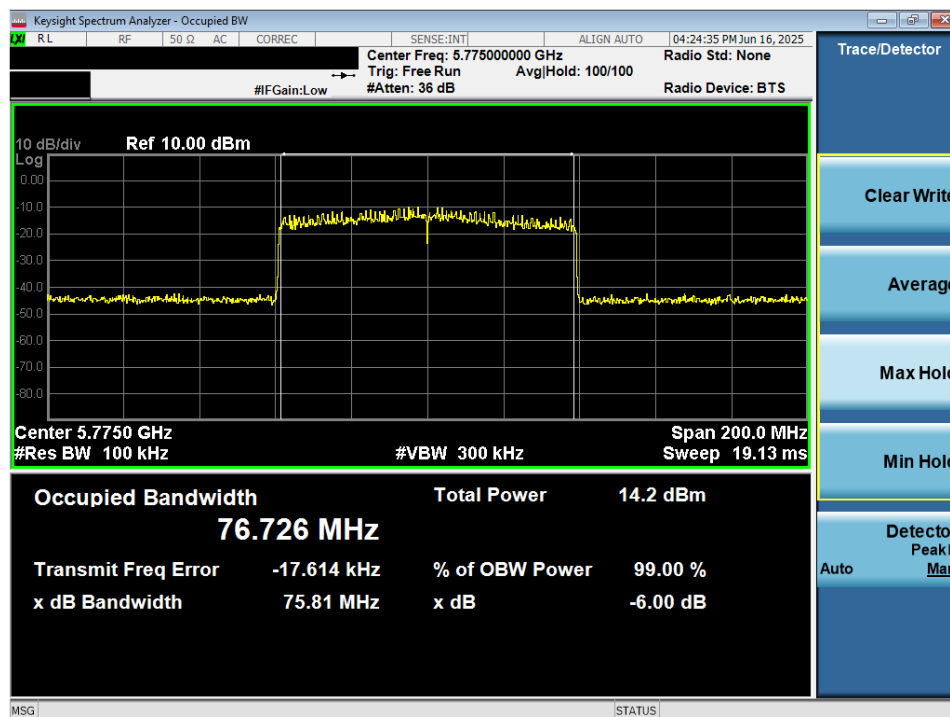


Plot 7-38. 6dB Bandwidth Plot MIMO ANT2 (20MHz BW 802.11ax – 242 Tones (UNII Band 3) – Ch. 157)

FCC ID: A3LSMX736B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-12.A3L	Test Dates: 6/3 - 7/8/2025	EUT Type: Portable Tablet	Page 39 of 109

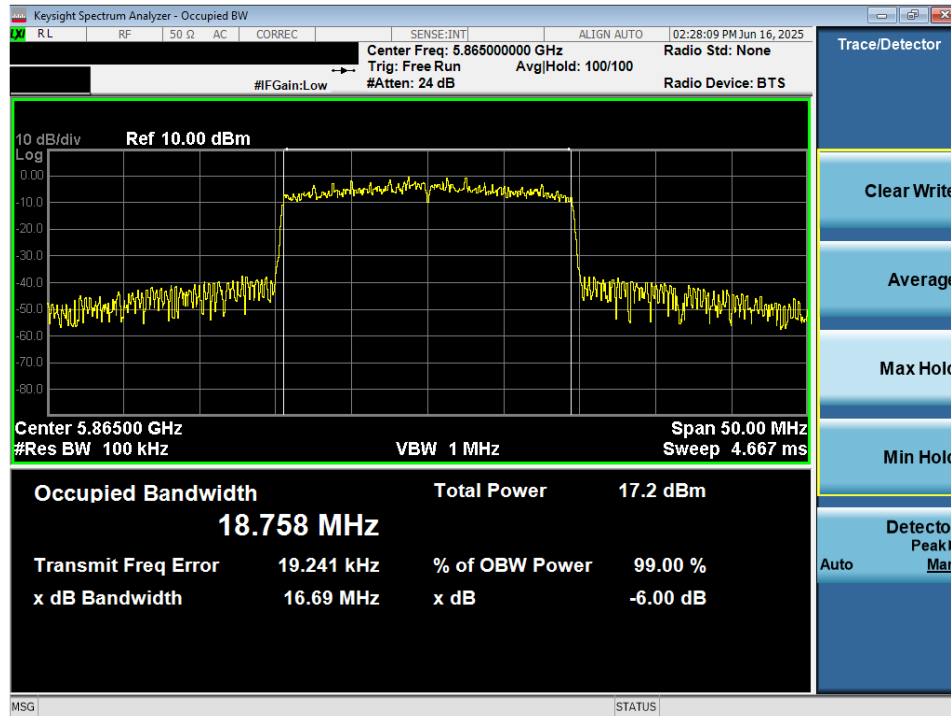


Plot 7-39. 6dB Bandwidth Plot MIMO ANT2 (40MHz BW 802.11ax – 484 Tones (UNII Band 3) – Ch. 151)

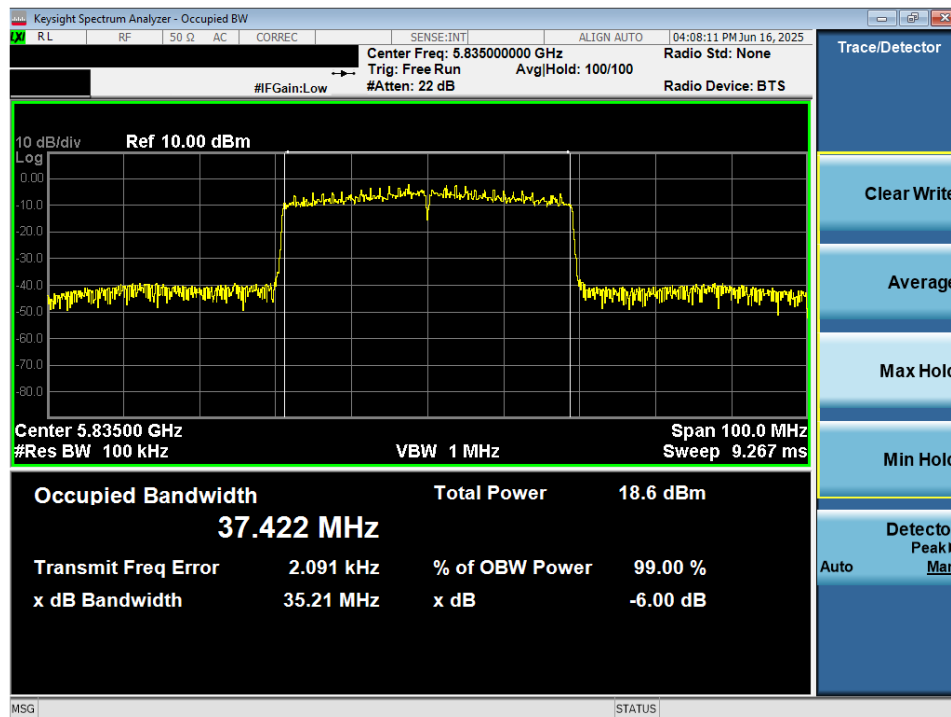


Plot 7-40. 6dB Bandwidth Plot MIMO ANT2 (80MHz BW 802.11ax – 996 Tones (UNII Band 3) – Ch. 155)

FCC ID: A3LSMX736B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-12.A3L	Test Dates: 6/3 - 7/8/2025	EUT Type: Portable Tablet	Page 40 of 109

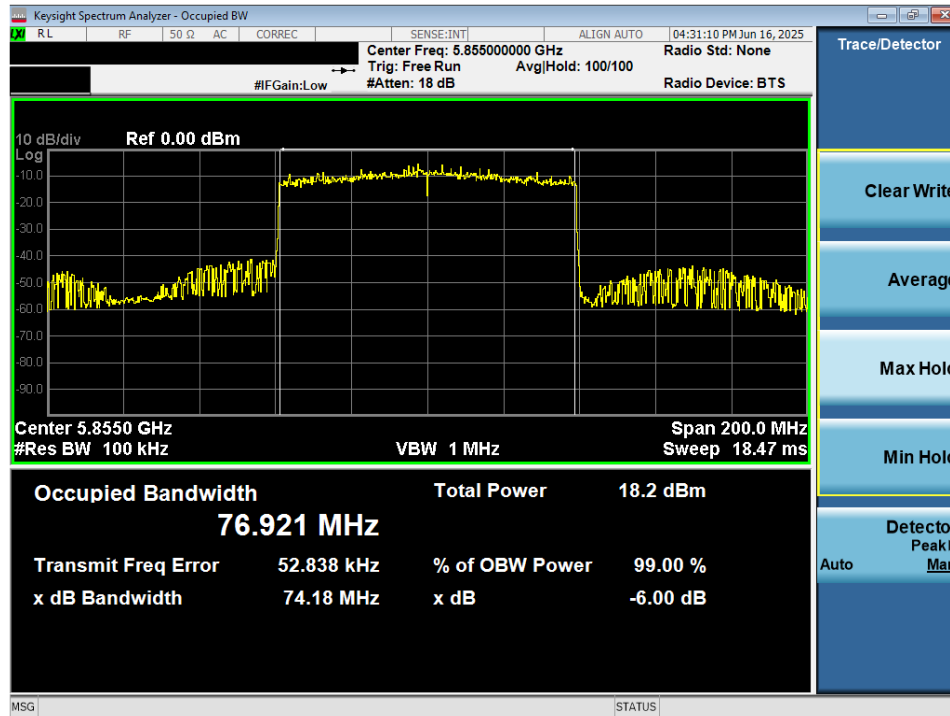


Plot 7-41. 6dB Bandwidth Plot MIMO ANT2 (20MHz BW 802.11ax – 242 Tones (UNII Band 4) – Ch. 173)

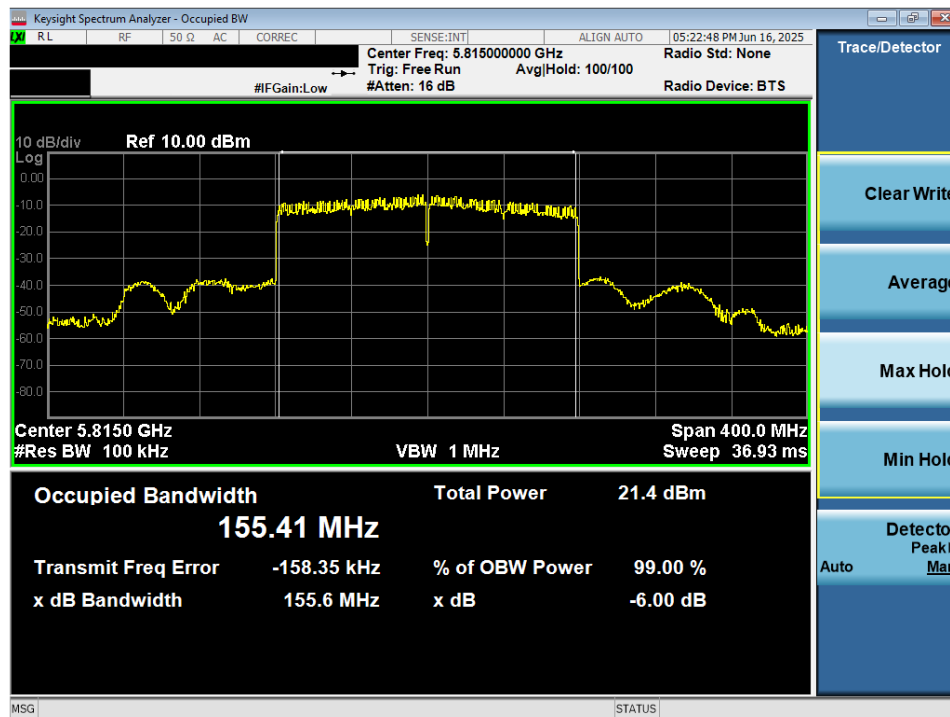


Plot 7-42. 6dB Bandwidth Plot MIMO ANT2 (40MHz BW 802.11ax – 484 Tones (UNII Band 3/4) – Ch. 167)

FCC ID: A3LSMX736B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-12.A3L	Test Dates: 6/3 - 7/8/2025	EUT Type: Portable Tablet	Page 41 of 109



Plot 7-43. 6dB Bandwidth Plot MIMO ANT2 (80MHz BW 802.11ax – 996 Tones (UNII Band 3/4) – Ch. 171)



Plot 7-44. 6dB Bandwidth Plot MIMO ANT2 (160MHz BW 802.11ax – 996*2 Tones (UNII Band 3/4) – Ch. 163)

FCC ID: A3LSMX736B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-12.A3L	Test Dates: 6/3 - 7/8/2025	EUT Type: Portable Tablet	Page 42 of 109

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 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)

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.

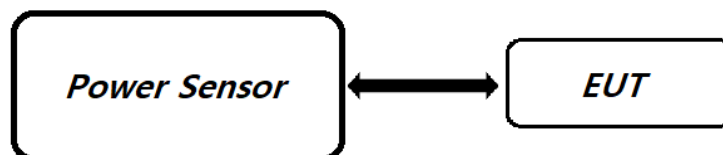


Figure 7-3. Test Instrument & Measurement Setup

Test Notes

None.

FCC ID: A3LSMX736B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-12.A3L	Test Dates: 6/3 - 7/8/2025	EUT Type: Portable Tablet	Page 43 of 109

MIMO Conducted Output Power Measurements (26 Tones)

	Band	Freq [MHz]	Channel	Tones	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]
					RU Index																	
					0			4			8											
					ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	ANT1	ANT2	MIMO									
20MHz BW	1	5180	36	26T	5.46	5.72	8.60	5.50	5.86	8.69	5.42	5.73	8.59	23.98	-15.29	-4.01	4.68	30.0	-25.32			
		5200	40	26T	5.35	5.43	8.40	5.37	5.48	8.44	5.93	5.97	8.96	23.98	-15.02	-4.01	4.95	30.0	-25.05			
		5240	48	26T	5.27	5.39	8.34	5.06	5.54	8.32	5.77	5.81	8.81	23.98	-15.57	-4.01	4.39	30.0	-25.61			
		5260	52	26T	5.58	5.16	8.39	5.39	5.05	8.23	5.05	5.42	8.25	23.98	-15.59	-3.86	4.52	30.0	-25.48			
	2A	5280	56	26T	5.58	5.47	8.54	5.92	5.64	8.79	5.87	5.73	8.81	23.98	-15.17	-3.86	4.95	30.0	-25.05			
		5320	64	26T	5.45	5.01	8.25	5.81	5.58	8.71	5.97	5.58	8.79	23.98	-15.19	-3.86	4.93	30.0	-25.07			
		5500	100	26T	5.57	5.51	8.55	5.86	5.53	8.71	5.99	5.96	8.99	23.98	-14.99	-3.56	5.42	30.0	-24.58			
		5600	120	26T	5.64	5.91	8.79	5.46	5.42	8.45	5.58	5.65	8.63	23.98	-15.19	-3.56	5.22	30.0	-24.78			
	2C	5720	144	26T	5.95	5.41	8.70	5.24	4.75	8.01	5.62	4.58	8.14	23.98	-15.28	-3.56	5.13	30.0	-24.87			
		5745	149	26T	5.75	5.18	8.48	5.89	4.98	8.47	5.85	5.22	8.66	30	-21.44	-3.12	5.44	36.0	-30.56			
		5785	157	26T	5.77	5.32	8.56	5.63	5.15	8.41	5.74	5.40	8.58	30	-21.42	-3.12	5.46	36.0	-30.54			
		5825	165	26T	5.99	5.41	8.72	5.25	8.53	5.91	5.31	8.63	30	-21.28	-3.12	5.60	36.0	-30.40				
	4	5845	169	26T	5.96	5.34	8.67	5.81	5.19	8.52	5.92	5.28	8.62	-	-	-3.00	5.67	30.0	-24.59			
		5865	173	26T	5.97	5.33	8.67	5.77	5.19	8.50	5.86	5.29	8.59	-	-	-3.00	5.67	30.0	-24.33			
		5885	177	26T	5.87	5.43	8.67	5.69	5.22	8.47	5.83	5.29	8.58	-	-	-3.00	5.67	30.0	-24.33			

Table 7-8. MIMO 20MHz BW (UNII) Maximum Conducted Output Power (26 Tones)

MIMO Conducted Output Power Measurements (52 Tones)

	Band	Freq [MHz]	Channel	Tones	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]
					RU Index														
					37			39			40								
					ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	ANT1	ANT2	MIMO						
20MHz BW	1	5180	36	52T	5.08	5.71	8.42	5.76	5.89	8.84	5.85	5.99	8.93	23.98	-15.05	-4.01	4.92	30.0	-25.08
		5200	40	52T	5.30	5.35	8.34	5.71	5.83	8.78	5.87	5.90	8.90	23.98	-15.08	-4.01	4.88	30.0	-25.12
		5240	48	52T	5.17	5.26	8.23	5.09	5.46	8.29	5.05	5.26	8.17	23.98	-15.69	-4.01	4.28	30.0	-25.72
		5260	52	52T	5.67	5.78	8.74	5.83	5.66	8.61	5.61	5.76	8.70	23.98	-15.24	-3.86	4.87	30.0	-25.13
	2A	5280	56	52T	5.99	5.81	8.91	5.88	5.58	8.74	5.77	5.66	8.73	23.98	-15.07	-3.86	5.05	30.0	-24.95
		5320	64	52T	5.93	5.67	8.81	5.81	5.47	8.65	5.90	5.59	8.76	23.98	-15.17	-3.86	4.95	30.0	-25.05
		5500	100	52T	5.93	5.99	8.97	5.81	5.59	8.71	5.98	5.62	8.81	23.98	-15.01	-3.56	5.41	30.0	-24.59
		5600	120	52T	5.55	5.55	8.46	5.44	5.44	8.45	5.25	5.57	8.42	23.98	-15.52	-3.56	4.90	30.0	-25.10
	2C	5720	144	52T	5.57	4.99	8.30	5.78	5.31	8.56	5.87	5.12	8.52	23.98	-15.42	-3.56	5.00	30.0	-25.00
		5745	149	52T	5.99	5.17	8.61	5.65	4.99	8.34	5.76	5.05	8.43	30	-21.39	-3.12	5.49	36.0	-30.51
		5785	157	52T	5.71	5.17	8.46	5.61	5.37	8.50	5.73	5.16	8.46	30	-21.50	-3.12	5.38	36.0	-30.62
		5825	165	52T	5.91	5.27	8.61	5.77	4.91	8.37	5.85	5.21	8.55	30	-21.39	-3.12	5.49	36.0	-30.51
	4	5845	169	52T	5.88	5.28	8.60	5.81	5.23	8.54	5.37	4.72	8.07	-	-	-3.00	5.60	30.0	-24.40
		5865	173	52T	5.88	5.29	8.61	5.76	5.14	8.47	5.77	5.21	8.51	-	-	-3.00	5.61	30.0	-24.39
		5885	177	52T	5.83	5.32	8.59	5.71	5.19	8.47	5.72	5.26	8.51	-	-	-3.00	5.59	30.0	-24.41

Table 7-9. MIMO 20MHz BW (UNII) Maximum Conducted Output Power (52 Tones)

MIMO Conducted Output Power Measurements (106 Tones)

20MHz BW	Band	Freq [MHz]	Channel	Tones	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]
					RU Index														
					53			54											
					ANT1	ANT2	MIMO	ANT1	ANT2	MIMO									
	1	5180	36	106T	5.79	5.85	8.83	5.72	5.84	8.79	23.98	-15.15	-4.01	4.82	30.0	-25.18			
		5200	40	106T	5.71	5.88	8.81	5.68	5.81	8.76	23.98	-15.17	-4.01	4.79	30.0	-25.21			
		5240	48	106T	5.60	5.55	8.59	5.58	5.74	8.67	23.98	-15.31	-4.01	4.66	30.0	-25.34			
	2A	5260	52	106T	5.45	5.74	8.61	5.45	5.35	8.41	23.98	-15.37	-3.86	4.75	30.0	-25.25			
		5280	56	106T	5.86	5.62	8.75	5.85	5.51	8.69	23.98	-15.23	-3.86	4.89	30.0	-25.11			
		5320	64	106T	5.78	5.49	8.65	5.76	5.44	8.61	23.98	-15.33	-3.86	4.79	30.0	-25.21			
	2C	5500	100	106T	5.81	5.51	8.67	5.81	5.49	8.66	23.98	-15.31	-3.56	5.11	30.0	-24.89			
		5600	120	106T	5.47	5.45	8.47	5.41	5.78	8.61	23.98	-15.37	-3.56	5.05	30.0	-24.95			
		5720	144	106T	5.77	5.12	8.47	5.67	5.01	8.36	23.98	-15.51	-3.56	4.90	30.0	-25.10			
	3	5745	149	106T	5.58	5.00	8.31	5.58	4.98	8.30	30	-21.69	-3.12	5.19	36.0	-30.81			
		5785	157	106T	5.59	5.34	8.48	5.54	5.02	8.30	30	-21.52	-3.12	5.36	36.0	-30.64			
		5825	165	106T	5.77	5.14	8.48	5.75	5.14	8.47	30	-21.52	-3.12	5.36	36.0	-30.64			
	4	5845	169	106T	5.74	5.15	8.47	5.71	5.10	8.43	-	-	-3.00	5.47	30.0	-24.53			
		5865	173	106T	5.73	5.23	8.50	5.67	5.14	8.42	-	-	-3.00	5.50	30.0	-24.50			
		5885	177	106T	5.66	5.16	8.43	5.61	5.15	8.40	-	-	-3.00	5.43	30.0	-24.57			

Table 7-10. MIMO 20MHz BW (UNII) Maximum Conducted Output Power (106 Tones)

MIMO Conducted Output Power Measurements (242 Tones)

	Band	Freq [MHz]	Channel	Tones	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]
					RU Index											
					61											
					ANT1	ANT2	MIMO									
20MHz BW	1	5180	36	242T	10.66	10.61	13.65	23.98	-10.33	-4.01	9.63	30.0	-20.37			
		5200	40	242T	10.39	10.62	13.52	23.98	-10.46	-4.01	9.50	30.0	-20.50			
		5240	48	242T	10.59	10.64	13.63	23.98	-10.35	-4.01	9.61	30.0	-20.39			
	2A	5260	52	242T	10.91	10.68	13.81	23.98	-10.17	-3.86	9.94	30.0	-20.06			
		5280	56	242T	10.89	10.48	13.70	23.98	-10.28	-3.86	9.84	30.0	-20.16			
		5320	64	242T	10.65	10.29	13.48	23.98	-10.50	-3.86	9.62	30.0	-20.38			
	2C	5500	100	242T	10.71	10.29	13.52	23.98	-10.46	-3.56	9.95	30.0	-20.05			
		5600	120	242T	10.11	10.65	13.40	23.98	-10.58	-3.56	9.83	30.0	-20.17			
		5720	144	242T	10.65	9.91	13.31	23.98	-10.67	-3.56	9.74	30.0	-20.26			
	3	5745	149	242T	10.99	10.26	13.65	30	-16.35	-3.12	10.53	36.0	-25.47			
		5785	157	242T	10.55	9.87	13.23	30	-16.77	-3.12	10.11	36.0	-25.89			
		5825	165	242T	10.74	9.93	13.36	30	-16.64	-3.12	10.24	36.0	-25.76			
	4	5845	169	242T	10.78	9.88	13.36	-	-	-3.00	10.37	30.0	-19.63			
		5865	173	242T	10.98	10.47	13.74	-	-	-3.00	10.74	30.0	-19.26			
		5885	177	242T	10.62	9.96	13.31	-	-	-3.00	10.31	30.0	-19.69			

MIMO Conducted Output Power Measurements (484 Tones)

40MHz BW	Band	Freq [MHz]	Channel	Tones	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]
					RU Index								
					65								
					ANT1	ANT2	MIMO						
	1	5190	38	484T	10.67	10.59	13.64	23.98	-10.34	-4.01	9.63	30.0	-20.37
		5230	46	484T	10.57	10.63	13.61	23.98	-10.37	-4.01	9.60	30.0	-20.40
	2A	5270	54	484T	10.91	10.45	13.70	23.98	-10.28	-3.86	9.83	30.0	-20.17
		5310	62	484T	10.74	10.31	13.54	23.98	-10.44	-3.86	9.68	30.0	-20.32
	2C	5510	102	484T	10.81	10.39	13.62	23.98	-10.36	-3.56	10.05	30.0	-19.95
		5590	118	484T	10.81	10.79	13.81	23.98	-10.17	-3.56	10.25	30.0	-19.75
		5710	142	484T	10.89	9.95	13.46	23.98	-10.52	-3.56	9.89	30.0	-20.11
	3	5755	151	484T	10.68	9.63	13.20	30	-16.80	-3.12	10.08	36.0	-25.92
		5795	159	484T	10.59	9.99	13.31	30	-16.69	-3.12	10.19	36.0	-25.81
	4	5835	167	484T	10.56	10.00	13.30	-	-	-3.00	10.30	30.0	-19.70
		5875	175	484T	10.45	9.99	13.24	-	-	-3.00	10.24	30.0	-19.76

Table 7-12. MIMO 40MHz BW (UNII) Maximum Conducted Output Power (484 Tones)

MIMO Conducted Output Power Measurements (996 Tones)

80MHz BW	Band	Freq [MHz]	Channel	Tones	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]
					RU Index								
					67								
					ANT1	ANT2	MIMO						
	1	5210	42	996T	10.28	10.57	13.44	23.98	-10.54	-4.01	9.42	30.0	-20.58
	2A	5290	58	996T	10.77	10.29	13.55	23.98	-10.43	-3.86	9.68	30.0	-20.32
		5530	106	996T	10.58	10.27	13.44	23.98	-10.54	-3.56	9.87	30.0	-20.13
	2C	5610	122	996T	10.81	10.98	13.91	23.98	-10.07	-3.56	10.34	30.0	-19.66
		5690	138	996T	10.98	10.13	13.59	23.98	-10.39	-3.56	10.02	30.0	-19.98
	3	5775	155	996T	10.89	10.39	13.66	30	-16.34	-3.12	10.54	36.0	-25.46
	4	5855	171	996T	10.77	9.89	13.36	-	-	-3.00	10.36	30.0	-19.64

Table 7-13. MIMO 80MHz BW (UNII) Maximum Conducted Output Power (996 Tones)

MIMO Conducted Output Power Measurements (2x996 Tones)

160MHz BW	Band	Freq [MHz]	Channel	Tones	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]
					RU Index								
					68								
					ANT1	ANT2	MIMO						
					10.15	10.47	13.32						
1/2A	5250	50	2x996T	10.15	10.47	13.32	23.98	-10.66	-4.01	9.31	30.0	-20.69	
2C	5570	114	2x996T	10.74	10.23	13.50	23.98	-10.48	-3.56	9.94	30.0	-20.06	
3/4	5815	163	2x996T	10.74	10.43	13.60	-	-	-3.00	10.60	30.0	-19.40	

Table 7-14. MIMO 160MHz BW (UNII) Maximum Conducted Output Power (2x996 Tones)

FCC ID: A3LSMX736B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-12.A3L	Test Dates: 6/3 - 7/8/2025	EUT Type: Portable Tablet	Page 45 of 109

Note:

Per ANSI C63.10:2020, 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 802.11ax (20MHz BW) mode, the average conducted output power was measured to be 5.50 dBm for Antenna 1 and 5.86 dBm for Antenna 2.

Antenna 1 + Antenna 2 = MIMO

$$(5.50 \text{ dBm} + 5.86 \text{ dBm}) = (3.548 \text{ mW} + 3.855 \text{ mW}) = 7.403 \text{ mW} = 8.69 \text{ dBm}$$

Sample e.i.r.p. Calculation:

At 5180MHz in 802.11ax (20MHz BW) mode, the average MIMO conducted power was calculated to be 8.69 dBm with directional gain of -4.01 dBi.

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

$$8.69 \text{ dBm} + -4.01 \text{ dBi} = 4.68 \text{ dBm}$$

FCC ID: A3LSMX736B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-12.A3L	Test Dates: 6/3 - 7/8/2025	EUT Type: Portable Tablet	Page 46 of 109

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 Power Spectral Density	
		FCC	ISED
UNII 1	5.15 – 5.25GHz	11dBm/MHz	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 14.5.2.2 Measure-and-Sum Technique

Test Settings

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

Test Setup

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



Figure 7-4. Test Instrument & Measurement Setup

FCC ID: A3LSMX736B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-12.A3L	Test Dates: 6/3 - 7/8/2025	EUT Type: Portable Tablet	Page 47 of 109



Test Notes

The power spectral density for each channel was measured with the RU index showing the highest conducted power.

FCC ID: A3LSMX736B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-12.A3L	Test Dates: 6/3 - 7/8/2025	EUT Type: Portable Tablet	Page 48 of 109

Summed MIMO Power Spectral Density Measurements

	Frequency [MHz]	802.11 MODE	Channel	Antenna 1 PSD [dBm]	Antenna 2 PSD [dBm]	MIMO Summed PSD [dBm]	Conducted PSD Limit [dBm]	Margin [dB]
Band 1	5180	ax (20MHz)	36	2.36	3.31	5.87	11.00	-5.13
	5200	ax (20MHz)	40	2.52	3.01	5.78	11.00	-5.22
	5240	ax (20MHz)	48	2.96	3.20	6.09	11.00	-4.91
	5190	ax (40MHz)	38	2.84	2.94	5.90	11.00	-5.10
	5230	ax (40MHz)	46	2.46	2.92	5.71	11.00	-5.29
	5210	ax (80MHz)	42	2.72	2.71	5.73	11.00	-5.27
Band 1/2A	5250	ax (160MHz)	50	2.09	2.59	5.36	11.00	-5.64
Band 2A	5260	ax (20MHz)	52	3.12	3.22	6.18	11.00	-4.82
	5280	ax (20MHz)	56	3.09	2.97	6.04	11.00	-4.96
	5320	ax (20MHz)	64	3.47	2.55	6.04	11.00	-4.96
	5270	ax (40MHz)	54	3.27	2.97	6.13	11.00	-4.87
	5310	ax (40MHz)	62	3.27	2.96	6.13	11.00	-4.87
	5290	ax (80MHz)	58	2.42	2.15	5.30	11.00	-5.70
Band 2C	5500	ax (20MHz)	100	3.48	4.07	6.79	11.00	-4.21
	5600	ax (20MHz)	120	2.85	4.05	6.50	11.00	-4.50
	5720	ax (20MHz)	144	3.09	3.71	6.42	11.00	-4.58
	5510	ax (40MHz)	102	3.56	3.92	6.75	11.00	-4.25
	5590	ax (40MHz)	118	2.40	3.42	5.95	11.00	-5.05
	5710	ax (40MHz)	142	2.99	3.83	6.44	11.00	-4.56
	5530	ax (80MHz)	106	2.92	3.41	6.18	11.00	-4.82
	5610	ax (80MHz)	122	2.24	2.64	5.45	11.00	-5.55
	5690	ax (80MHz)	138	2.17	3.28	5.77	11.00	-5.23
	5570	ax (160MHz)	114	1.85	2.25	5.06	11.00	-5.94

Table 7-15. Bands 1, 2A, 2C MIMO Conducted Power Spectral Density Measurements MIMO (26 Tones)

	Frequency [MHz]	802.11 MODE	Channel	Antenna 1 PSD [dBm]	Antenna 2 PSD [dBm]	MIMO Summed PSD [dBm]	Conducted PSD Limit [dBm]	Margin [dB]
Band 3	5745	ax (20MHz)	149	0.39	1.61	4.05	30.00	-25.95
	5785	ax (20MHz)	157	0.57	0.84	3.72	30.00	-26.28
	5825	ax (20MHz)	165	0.19	0.84	3.54	30.00	-26.46
	5755	ax (40MHz)	151	0.82	1.67	4.28	30.00	-25.72
	5795	ax (40MHz)	159	0.87	0.96	3.92	30.00	-26.08
	5775	ax (80MHz)	155	0.14	0.78	3.48	30.00	-26.52

Table 7-16. Band 3 MIMO Conducted Power Spectral Density Measurements MIMO (26 Tones)

FCC ID: A3LSMX736B	MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1M2505130050-12.A3L	Test Dates: 6/3 - 7/8/2025	EUT Type: Portable Tablet		Page 49 of 109

	Frequency [MHz]	802.11 MODE	Channel	Antenna 1 PSD [dBm]	Antenna 2 PSD [dBm]	Antenna Gain [dBi]	MIMO Summed EIRP PSD [dBm]	EIRP PSD Limit [dBm]	Margin [dB]
Band 3/4	5845	ax (20MHz)	169	2.89	3.08	-3.00	3.00	14.00	-11.00
Band 4	5865	ax (20MHz)	173	2.92	3.44	-3.00	3.20	14.00	-10.80
	5885	ax (20MHz)	177	2.75	3.40	-3.00	3.10	14.00	-10.90
Band 3/4	5835	ax (40MHz)	167	2.90	3.16	-3.00	3.04	14.00	-10.96
Band 4	5875	ax (40MHz)	175	2.87	3.14	-3.00	3.02	14.00	-10.98
Band 3/4	5855	ax (80MHz)	171	2.53	2.55	-3.00	2.55	14.00	-11.45
Band 4	5815	ax (160MHz)	163	2.60	2.72	-3.00	2.67	14.00	-11.33

Table 7-17. Bands 3/4 MIMO Conducted Power Spectral Density Measurements MIMO (26 Tones)

	Frequency [MHz]	802.11 MODE	Channel	Antenna 1 PSD [dBm]	Antenna 2 PSD [dBm]	MIMO Summed PSD [dBm]	Conducted PSD Limit [dBm]	Margin [dB]
Band 1	5180	ax (20MHz)	36	-0.67	0.48	2.96	11.00	-8.04
	5200	ax (20MHz)	40	-0.68	0.14	2.76	11.00	-8.24
	5240	ax (20MHz)	48	-0.48	0.17	2.87	11.00	-8.13
	5190	ax (40MHz)	38	-3.70	-2.59	-0.10	11.00	-11.10
	5230	ax (40MHz)	46	-3.16	-2.59	0.15	11.00	-10.85
	5210	ax (80MHz)	42	-6.94	-6.60	-3.76	11.00	-14.76
Band 1/2A	5250	ax (160MHz)	50	-7.47	-6.80	-4.11	11.00	-15.11
Band 2A	5260	ax (20MHz)	52	-0.01	-0.15	2.93	11.00	-8.07
	5280	ax (20MHz)	56	0.08	-0.21	2.95	11.00	-8.05
	5320	ax (20MHz)	64	-0.19	-0.25	2.79	11.00	-8.21
	5270	ax (40MHz)	54	-2.73	-2.26	0.52	11.00	-10.48
	5310	ax (40MHz)	62	-2.55	-3.24	0.13	11.00	-10.87
	5290	ax (80MHz)	58	-6.69	-6.62	-3.65	11.00	-14.65
Band 2C	5500	ax (20MHz)	100	0.13	1.03	3.61	11.00	-7.39
	5600	ax (20MHz)	120	-0.27	0.87	3.34	11.00	-7.66
	5720	ax (20MHz)	144	0.28	0.76	3.53	11.00	-7.47
	5510	ax (40MHz)	102	-2.40	-1.95	0.84	11.00	-10.16
	5590	ax (40MHz)	118	-3.51	-1.88	0.39	11.00	-10.61
	5710	ax (40MHz)	142	-2.76	-2.04	0.63	11.00	-10.37
	5530	ax (80MHz)	106	-5.93	-5.93	-2.92	11.00	-13.92
	5610	ax (80MHz)	122	-7.06	-6.24	-3.62	11.00	-14.62
	5690	ax (80MHz)	138	-12.06	-11.75	-8.89	11.00	-19.89
	5570	ax (160MHz)	114	-8.39	-7.72	-5.03	11.00	-16.03

Table 7-18. Bands 1, 2A, 2C MIMO Conducted Power Spectral Density Measurements MIMO (Full Tones)

FCC ID: A3LSMX736B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-12.A3L	Test Dates: 6/3 - 7/8/2025	EUT Type: Portable Tablet	Page 50 of 109

	Frequency [MHz]	802.11 MODE	Channel	Antenna 1 PSD [dBm]	Antenna 2 PSD [dBm]	MIMO Summed PSD [dBm]	Conducted PSD Limit [dBm]	Margin [dB]
Band 3	5745	ax (20MHz)	149	-2.61	-1.81	0.81	30.00	-29.19
	5785	ax (20MHz)	157	-2.79	-2.10	0.58	30.00	-29.42
	5825	ax (20MHz)	165	-3.00	-2.87	0.08	30.00	-29.92
	5755	ax (40MHz)	151	-5.39	-4.89	-2.12	30.00	-32.12
	5795	ax (40MHz)	159	-5.80	-5.15	-2.45	30.00	-32.45
	5775	ax (80MHz)	155	-13.77	-12.81	-10.26	30.00	-40.26

Table 7-19. Band 3 MIMO Conducted Power Spectral Density Measurements MIMO (Full Tones)

	Frequency [MHz]	802.11 MODE	Channel	Antenna 1 PSD [dBm]	Antenna 2 PSD [dBm]	Antenna Gain [dBi]	MIMO Summed EIRP PSD [dBm]	EIRP PSD Limit [dBm]	Margin [dB]
Band 3/4	5845	ax (20MHz)	169	-0.37	-0.03	-3.00	-0.18	14.00	-14.18
Band 4	5865	ax (20MHz)	173	-0.26	0.07	-3.00	-0.08	14.00	-14.08
	5885	ax (20MHz)	177	-0.43	0.14	-3.00	-0.12	14.00	-14.12
Band 3/4	5835	ax (40MHz)	167	-2.75	-2.61	-3.00	-2.66	14.00	-16.66
Band 4	5875	ax (40MHz)	175	-3.22	-2.73	-3.00	-2.95	14.00	-16.95
Band 3/4	5855	ax (80MHz)	171	-5.82	-6.37	-3.00	-6.08	14.00	-20.08
	5815	ax (160MHz)	163	-8.08	-7.42	-3.00	-7.73	14.00	-21.73

Table 7-20. Bands 3/4 MIMO Conducted Power Spectral Density Measurements MIMO (Full Tones)

	Frequency [MHz]	802.11 MODE	Channel	Antenna 1 PSD [dBm]	Antenna 2 PSD [dBm]	MIMO Summed PSD [dBm]	Antenna Gain [dBi]	EIRP PSD [dBm]	Max PSD [dBm]	Margin [dB]
Band 1	5180	ax (20MHz)	36	2.36	3.31	5.87	-4.01	1.86	10.00	-8.14
	5200	ax (20MHz)	40	2.52	3.01	5.78	-4.01	1.77	10.00	-8.23
	5240	ax (20MHz)	48	2.96	3.20	6.09	-4.01	2.08	10.00	-7.92
	5190	ax (40MHz)	38	2.84	2.94	5.90	-4.01	1.89	10.00	-8.11
	5230	ax (40MHz)	46	2.46	2.92	5.71	-4.01	1.69	10.00	-8.31
	5210	ax (80MHz)	42	2.72	2.71	5.73	-4.01	1.71	10.00	-8.29
Band 1/2A	5250	ax (160MHz)	50	2.09	2.59	5.36	-4.01	1.35	10.00	-8.65

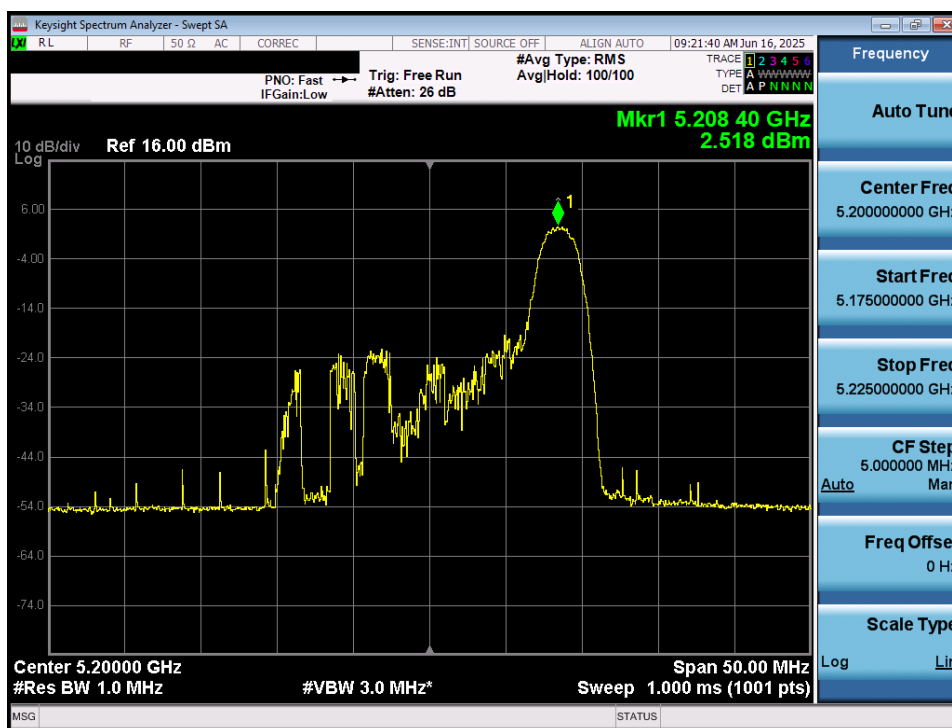
Table 7-21. Band 1 MIMO EIRP Spectral Density Measurements MIMO (26 Tones)

	Frequency [MHz]	802.11 MODE	Channel	Antenna 1 PSD [dBm]	Antenna 2 PSD [dBm]	MIMO Summed PSD [dBm]	Antenna Gain [dBi]	EIRP PSD [dBm]	EIRP PSD Limit [dBm]	Margin [dB]
Band 1	5180	ax (20MHz)	36	-0.67	0.48	2.96	-4.01	-1.06	10.00	-11.06
	5200	ax (20MHz)	40	-0.68	0.14	2.76	-4.01	-1.26	10.00	-11.26
	5240	ax (20MHz)	48	-0.48	0.17	2.87	-4.01	-1.14	10.00	-11.14
	5190	ax (40MHz)	38	-3.70	-2.59	-0.10	-4.01	-4.11	10.00	-14.11
	5230	ax (40MHz)	46	-3.16	-2.59	0.15	-4.01	-3.87	10.00	-13.87
	5210	ax (80MHz)	42	-6.94	-6.60	-3.76	-4.01	-7.77	10.00	-17.77
Band 1/2A	5250	ax (160MHz)	50	-7.47	-6.80	-4.11	-4.01	-8.12	10.00	-18.12

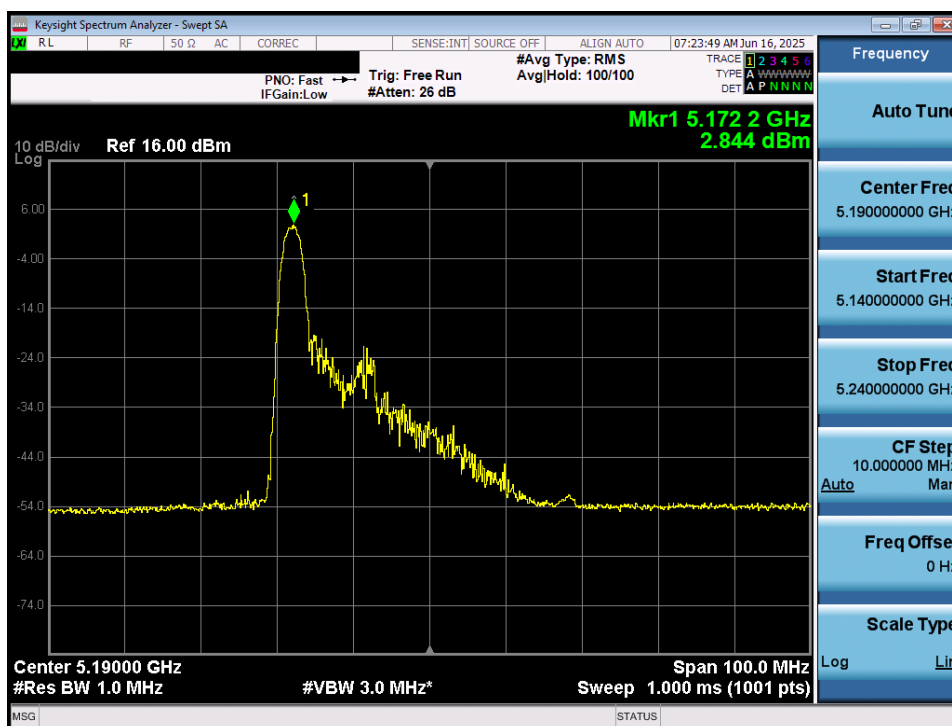
Table 7-22. Band 1 MIMO EIRP Spectral Density Measurements MIMO (Full Tones)

FCC ID: A3LSMX736B	MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1M2505130050-12.A3L	Test Dates: 6/3 - 7/8/2025	EUT Type: Portable Tablet		Page 51 of 109

7.5.1 MIMO Antenna-1 Power Spectral Density Measurements

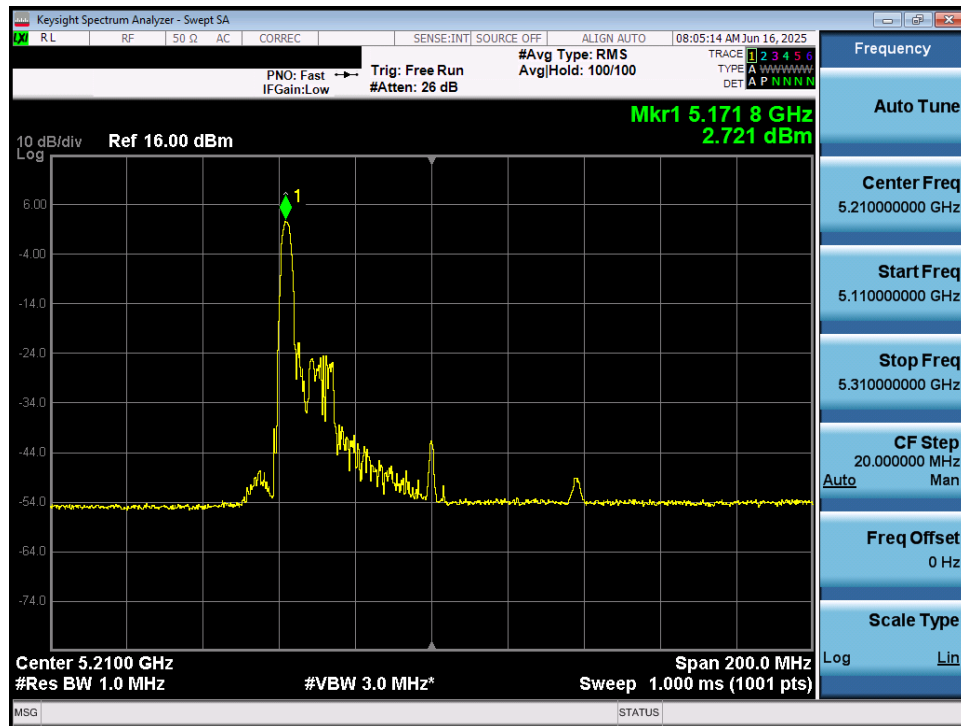


Plot 7-45. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 40)

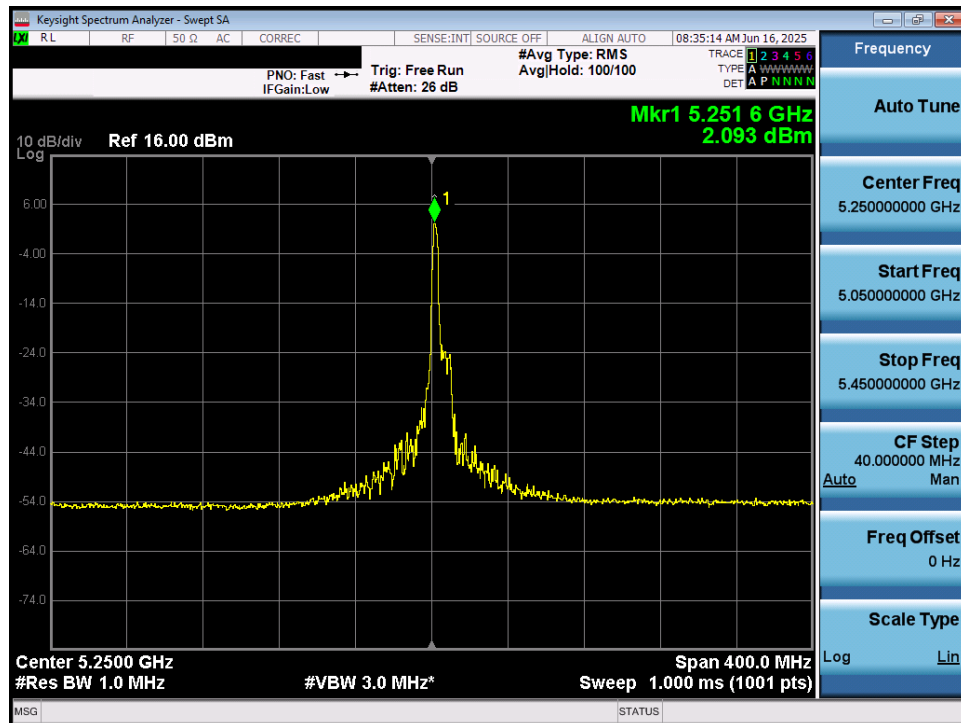


Plot 7-46. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 38)

FCC ID: A3LSMX736B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-12.A3L	Test Dates: 6/3 - 7/8/2025	EUT Type: Portable Tablet	Page 52 of 109

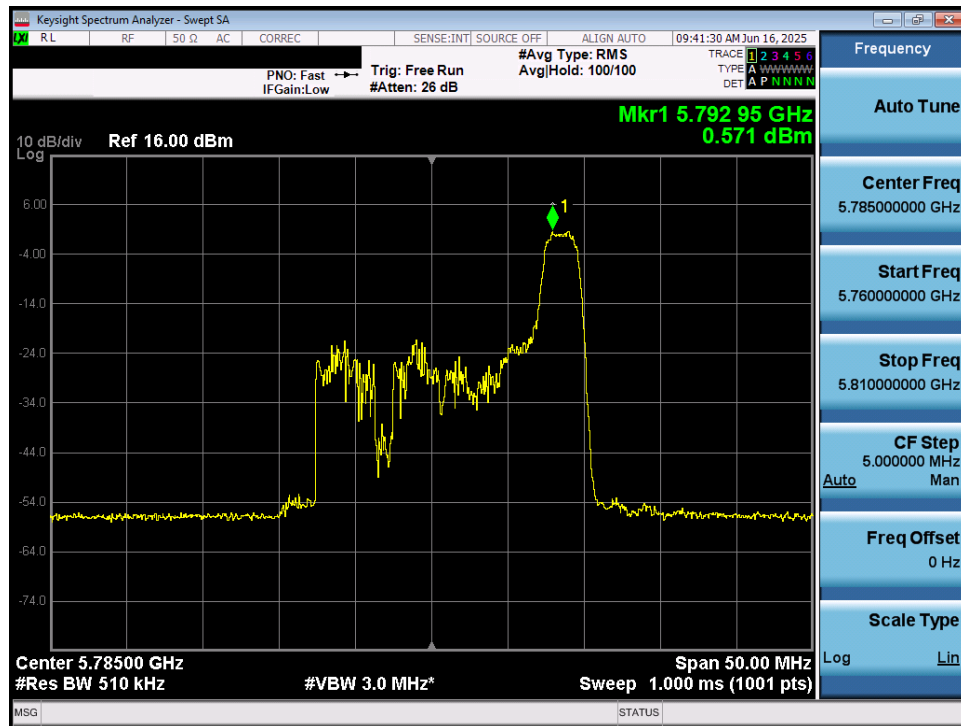


Plot 7-47. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 42)

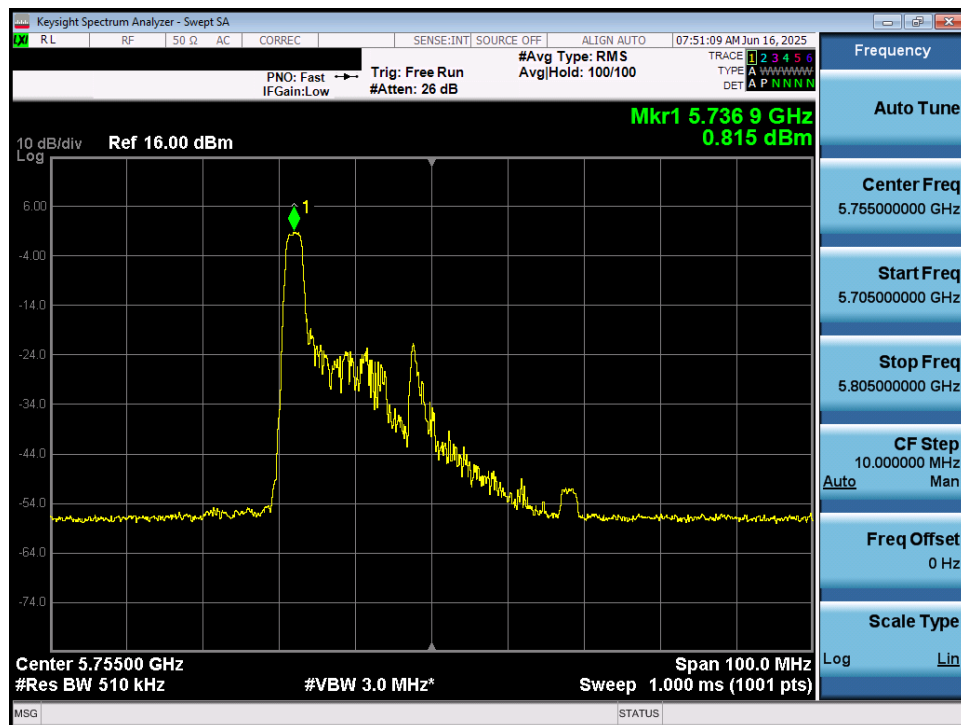


Plot 7-48. Power Spectral Density Plot MIMO ANT1 (160MHz BW 802.11ax – 26 Tones (UNII Band 1/2A) – Ch. 50)

FCC ID: A3LSMX736B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-12.A3L	Test Dates: 6/3 - 7/8/2025	EUT Type: Portable Tablet	Page 53 of 109



Plot 7-49. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 157)

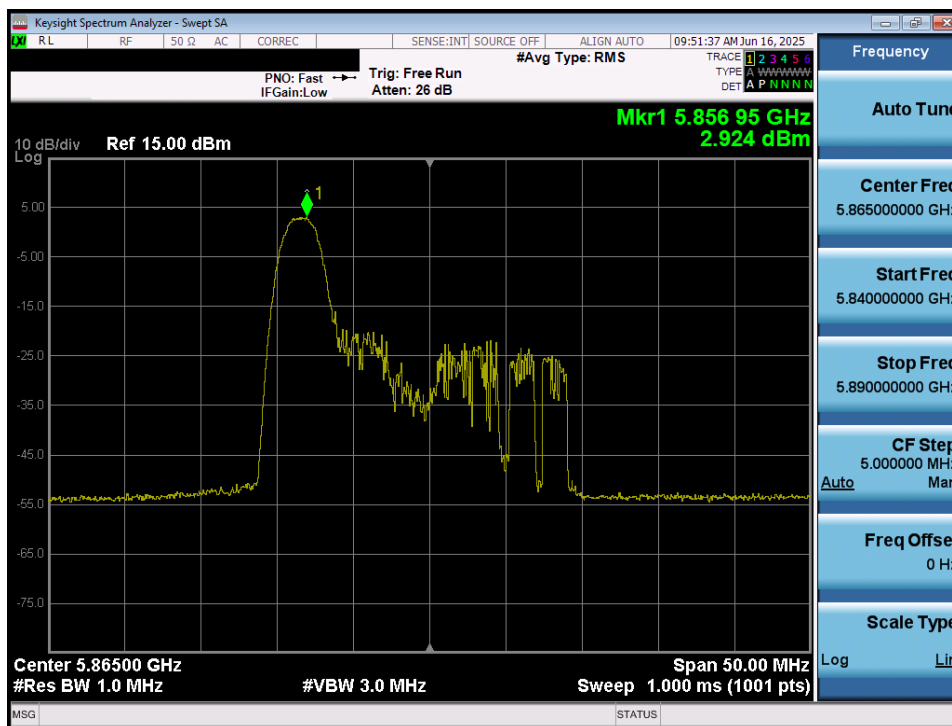


Plot 7-50. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 151)

FCC ID: A3LSMX736B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-12.A3L	Test Dates: 6/3 - 7/8/2025	EUT Type: Portable Tablet	Page 54 of 109

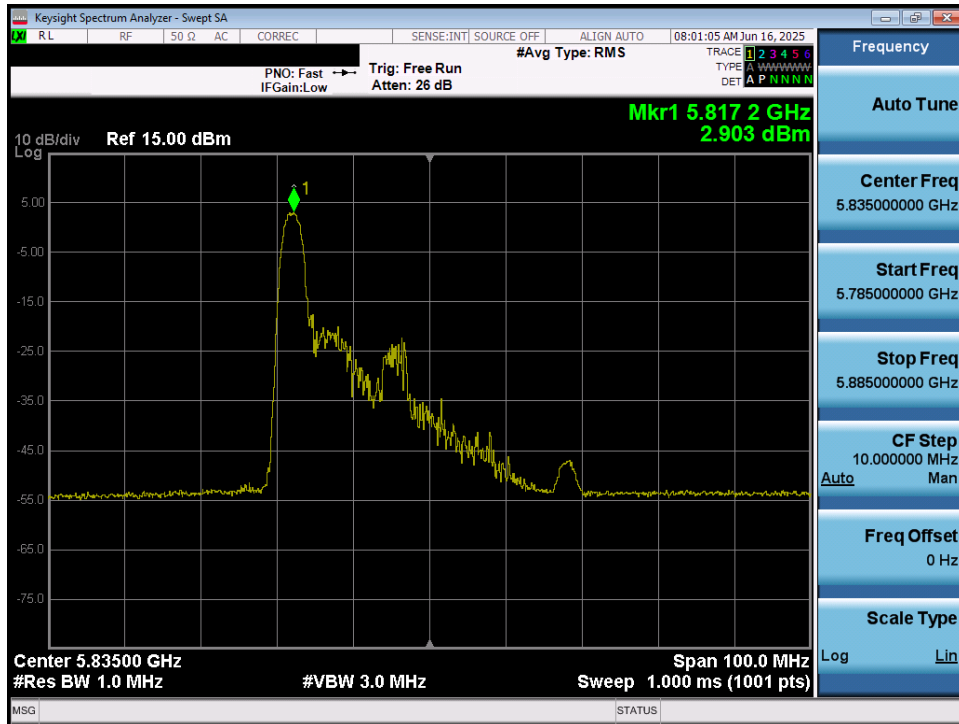


Plot 7-51. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 155)

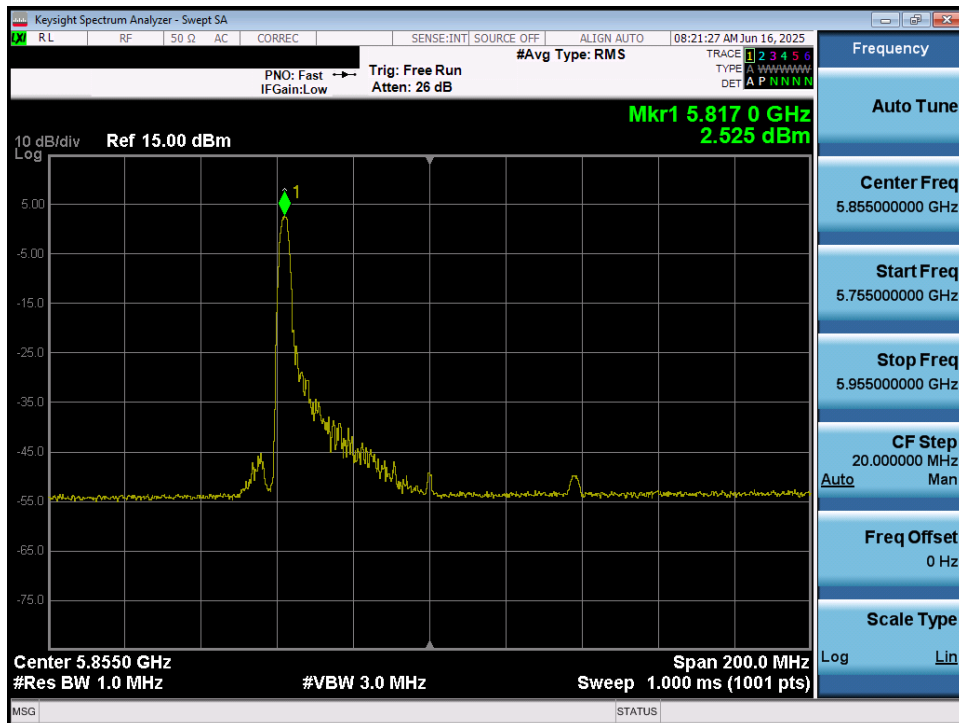


Plot 7-52. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 4) – Ch. 173)

FCC ID: A3LSMX736B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-12.A3L	Test Dates: 6/3 - 7/8/2025	EUT Type: Portable Tablet	Page 55 of 109

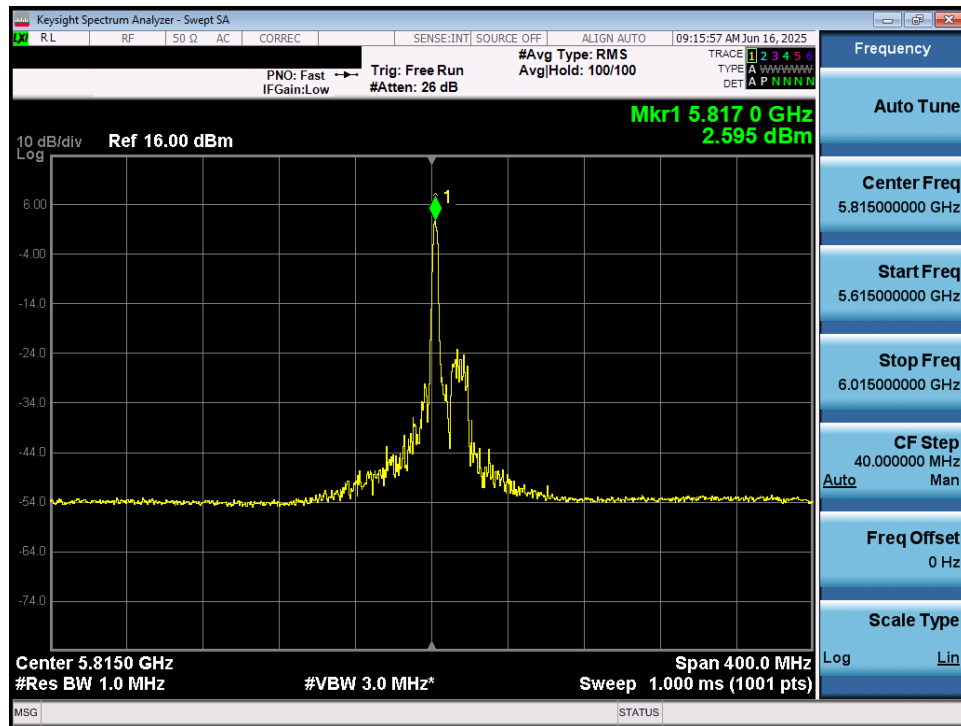


Plot 7-53. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 3/4) – Ch. 167)

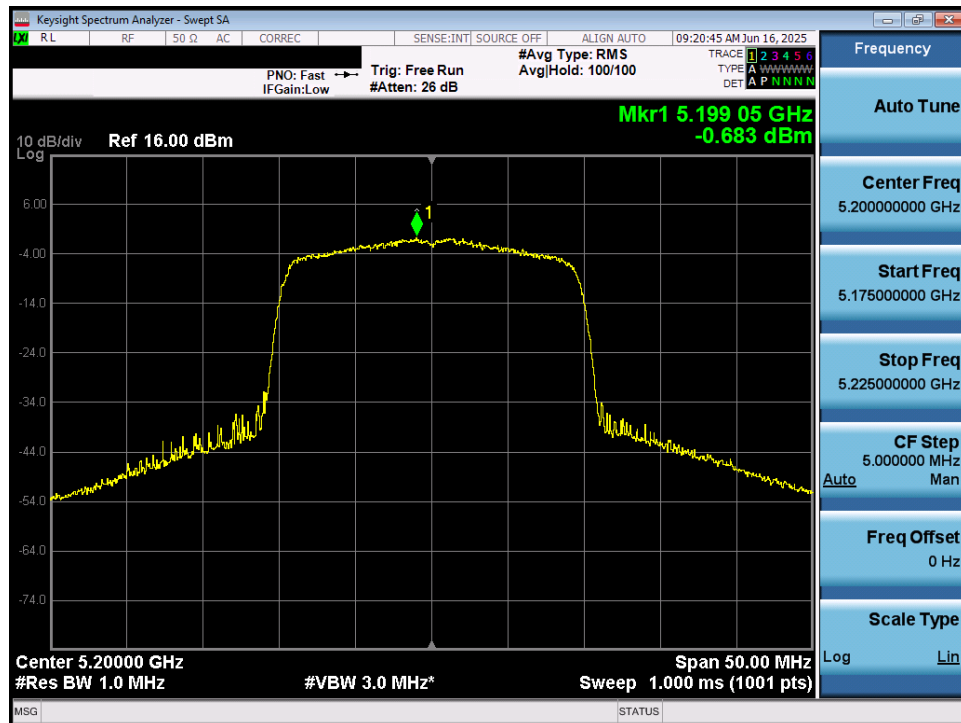


Plot 7-54. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax – 26 Tones (UNII Band 3/4) – Ch. 171)

FCC ID: A3LSMX736B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-12.A3L	Test Dates: 6/3 - 7/8/2025	EUT Type: Portable Tablet	Page 56 of 109

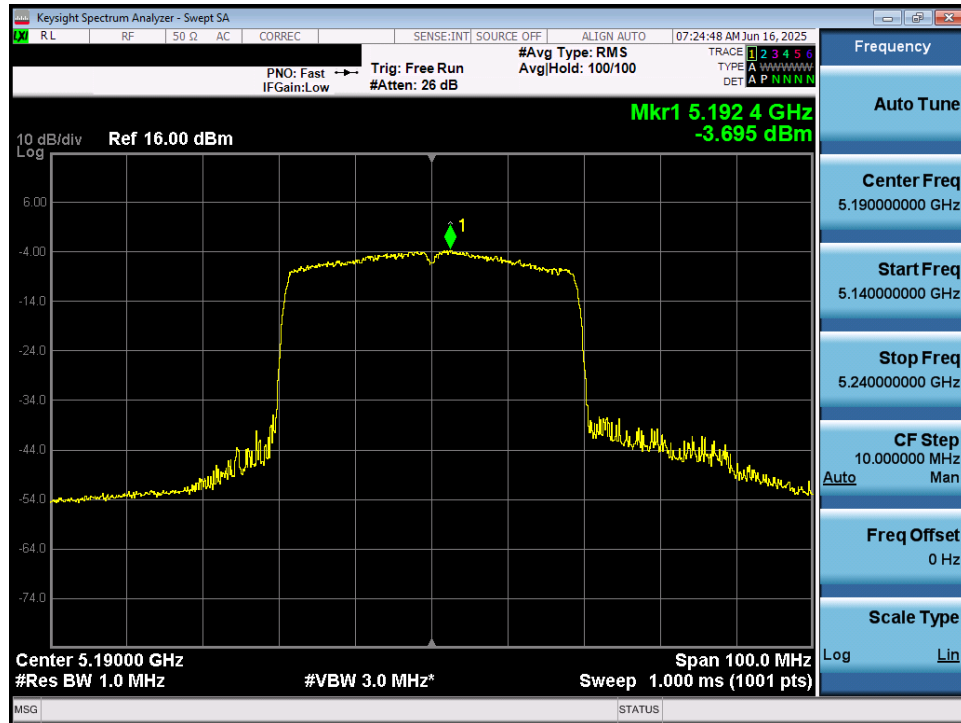


Plot 7-55. Power Spectral Density Plot MIMO ANT1 (160MHz BW 802.11ax – 26 Tones (UNII Band 3/4) – Ch. 163)

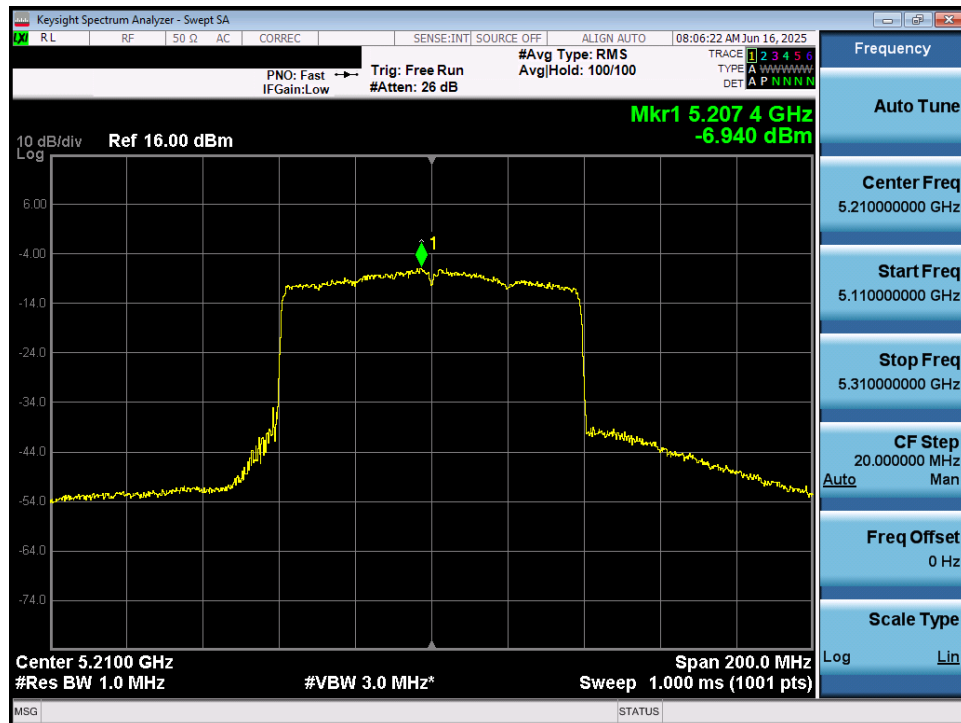


Plot 7-56. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 242 Tones (UNII Band 1) – Ch. 40)

FCC ID: A3LSMX736B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-12.A3L	Test Dates: 6/3 - 7/8/2025	EUT Type: Portable Tablet	Page 57 of 109



Plot 7-57. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – 484 Tones (UNII Band 1) – Ch. 38)

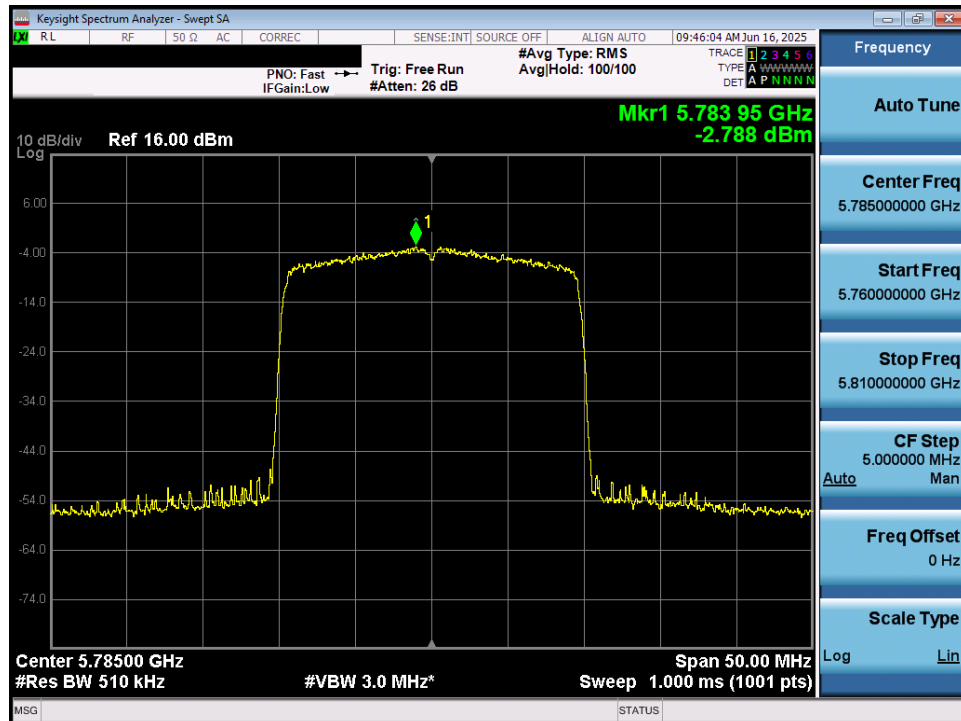


Plot 7-58. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax – 996 Tones (UNII Band 1) – Ch. 42)

FCC ID: A3LSMX736B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-12.A3L	Test Dates: 6/3 - 7/8/2025	EUT Type: Portable Tablet	Page 58 of 109

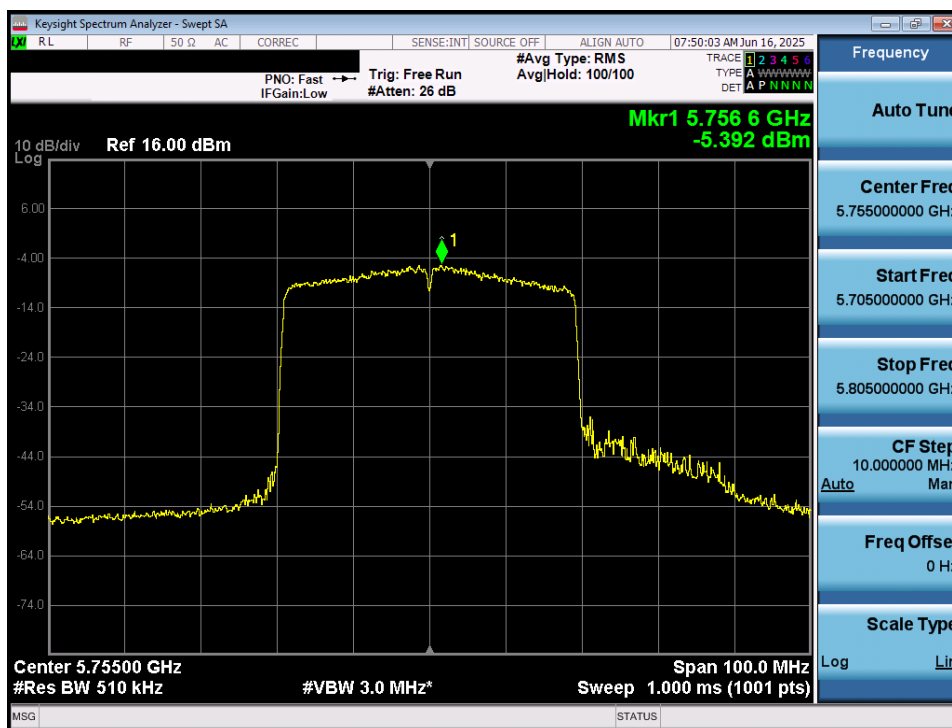


Plot 7-59. Power Spectral Density Plot MIMO ANT1 (160MHz BW 802.11ax – 2x996 Tones (UNII Band 1/2A) – Ch. 50)

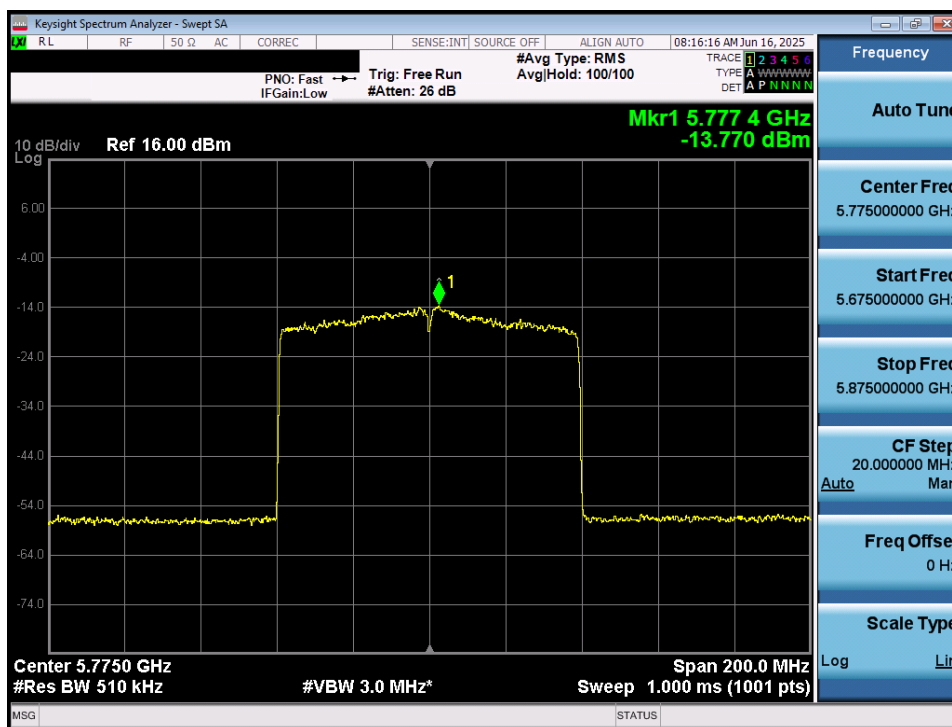


Plot 7-60. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 242 Tones (UNII Band 3) – Ch. 157)

FCC ID: A3LSMX736B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-12.A3L	Test Dates: 6/3 - 7/8/2025	EUT Type: Portable Tablet	Page 59 of 109

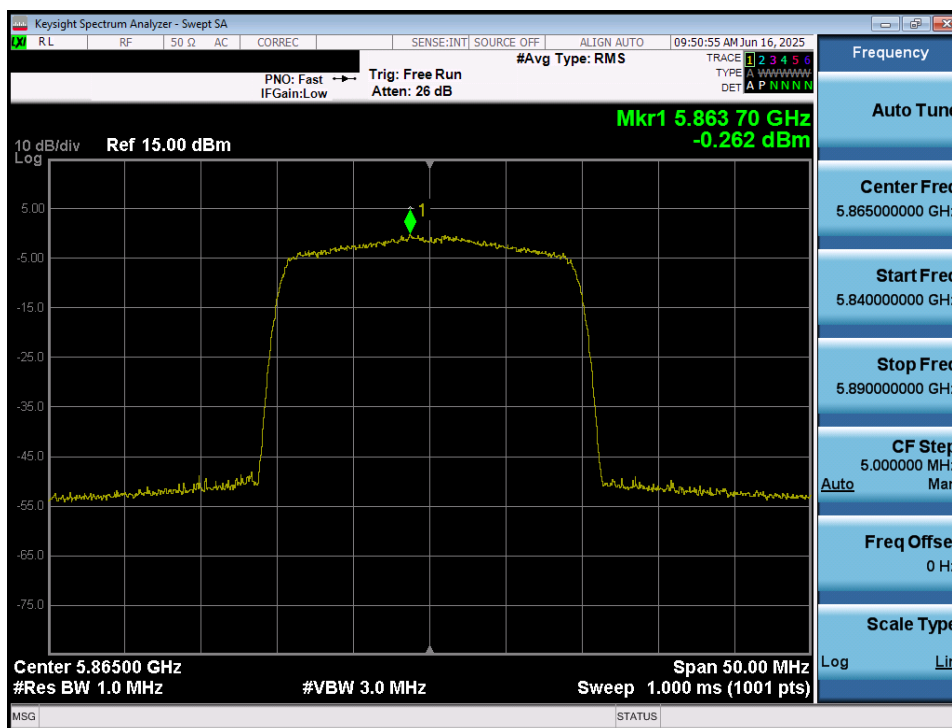


Plot 7-61. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – 484 Tones (UNII Band 3) – Ch. 151)

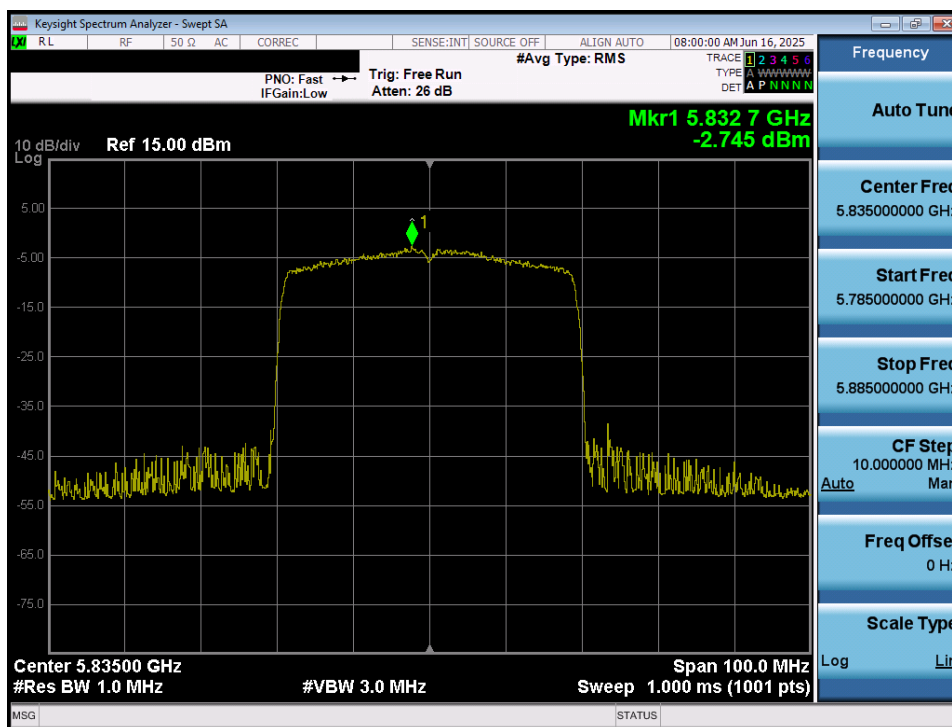


Plot 7-62. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax – 996 Tones (UNII Band 3) – Ch. 155)

FCC ID: A3LSMX736B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-12.A3L	Test Dates: 6/3 - 7/8/2025	EUT Type: Portable Tablet	Page 60 of 109

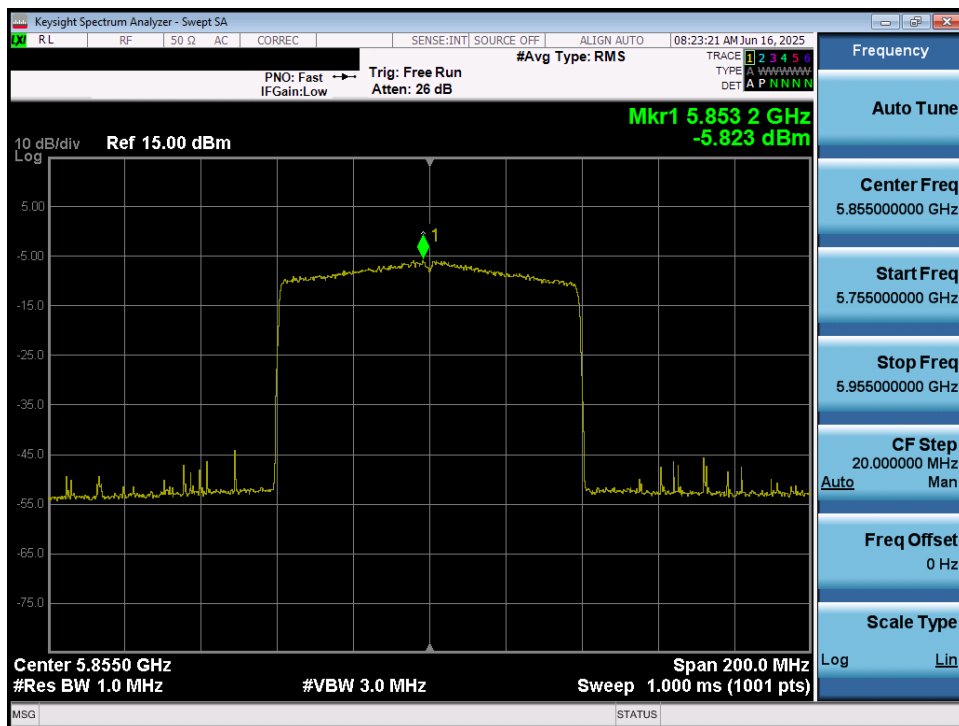


Plot 7-63. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 242 Tones (UNII Band 4) – Ch. 173)

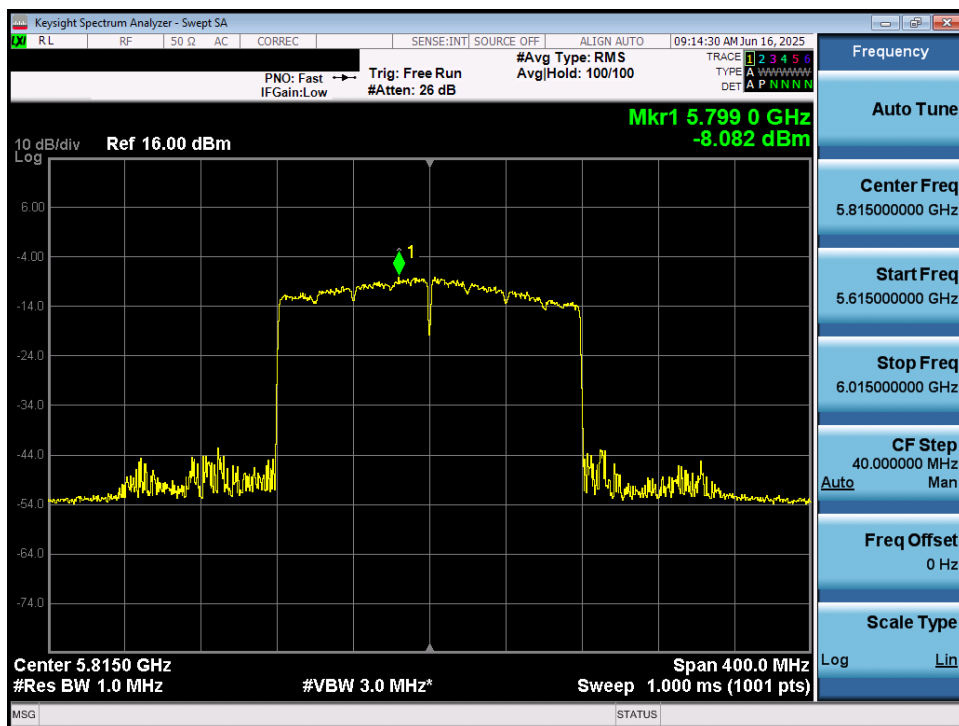


Plot 7-64. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – 484 Tones (UNII Band 3/4) – Ch. 167)

FCC ID: A3LSMX736B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-12.A3L	Test Dates: 6/3 - 7/8/2025	EUT Type: Portable Tablet	Page 61 of 109



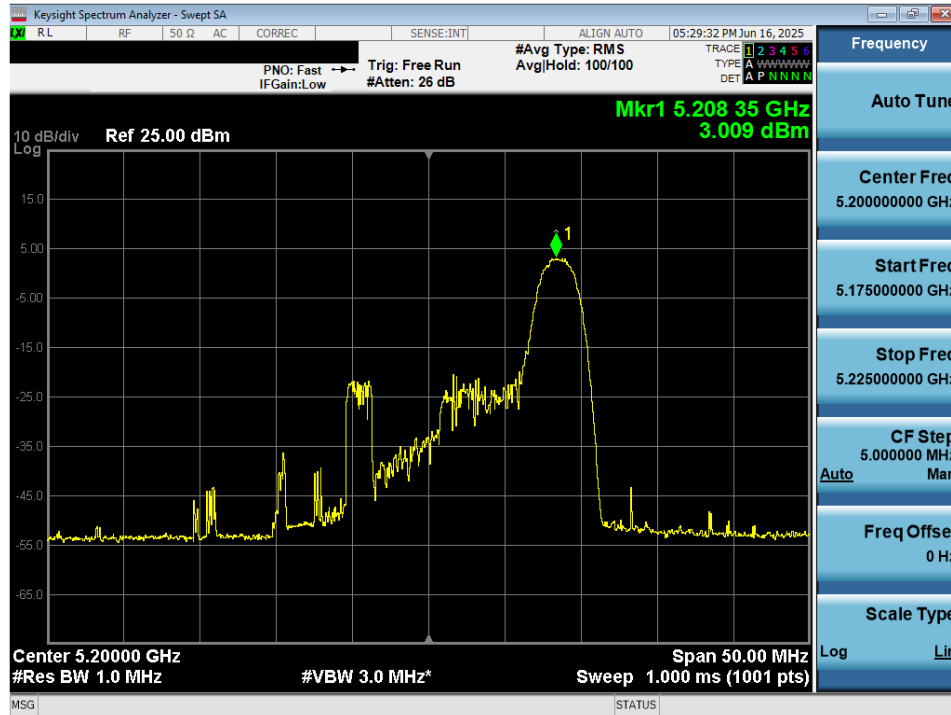
Plot 7-65. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax – 996 Tones (UNII Band 3/4) – Ch. 171)



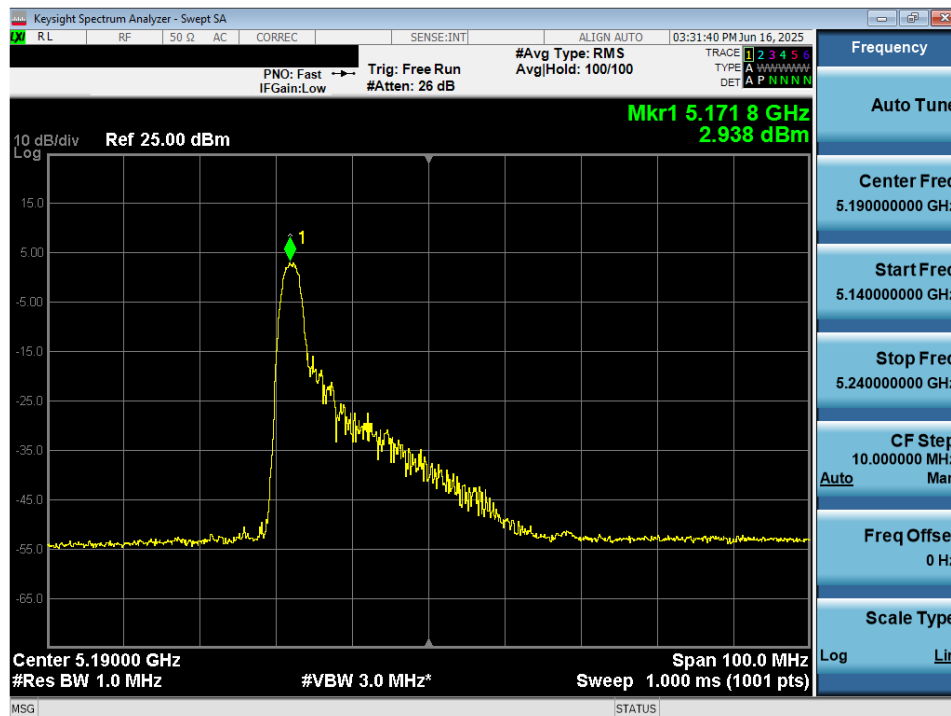
Plot 7-66. Power Spectral Density Plot MIMO ANT1 (160MHz BW 802.11ax – 996*2 Tones (UNII Band 3/4) – Ch. 163)

FCC ID: A3LSMX736B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-12.A3L	Test Dates: 6/3 - 7/8/2025	EUT Type: Portable Tablet	Page 62 of 109

7.5.2 MIMO Antenna-2 Power Spectral Density Measurements

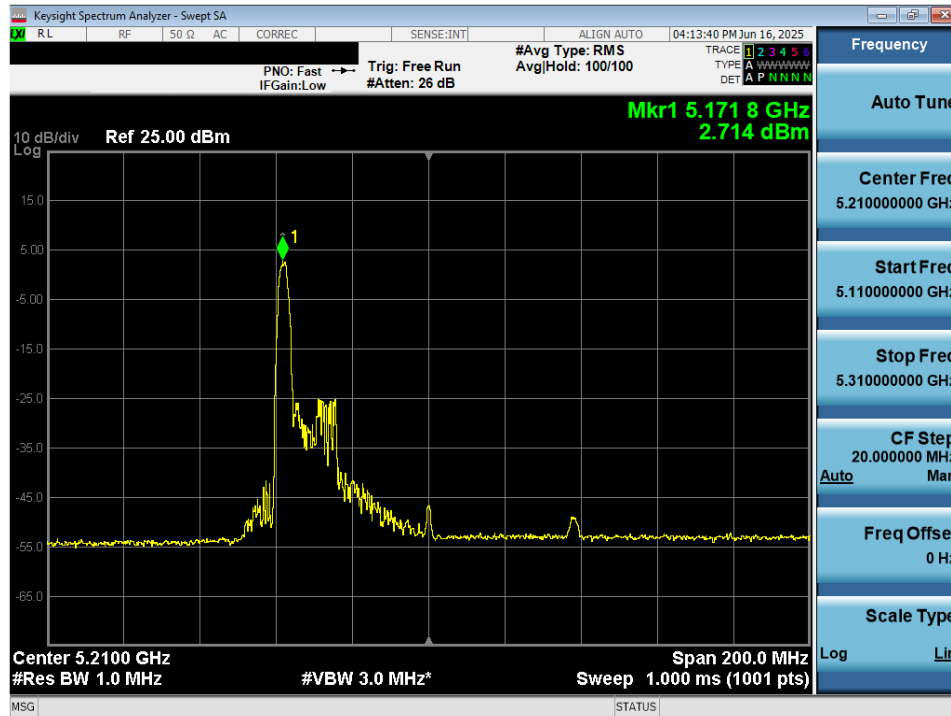


Plot 7-67. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 40)

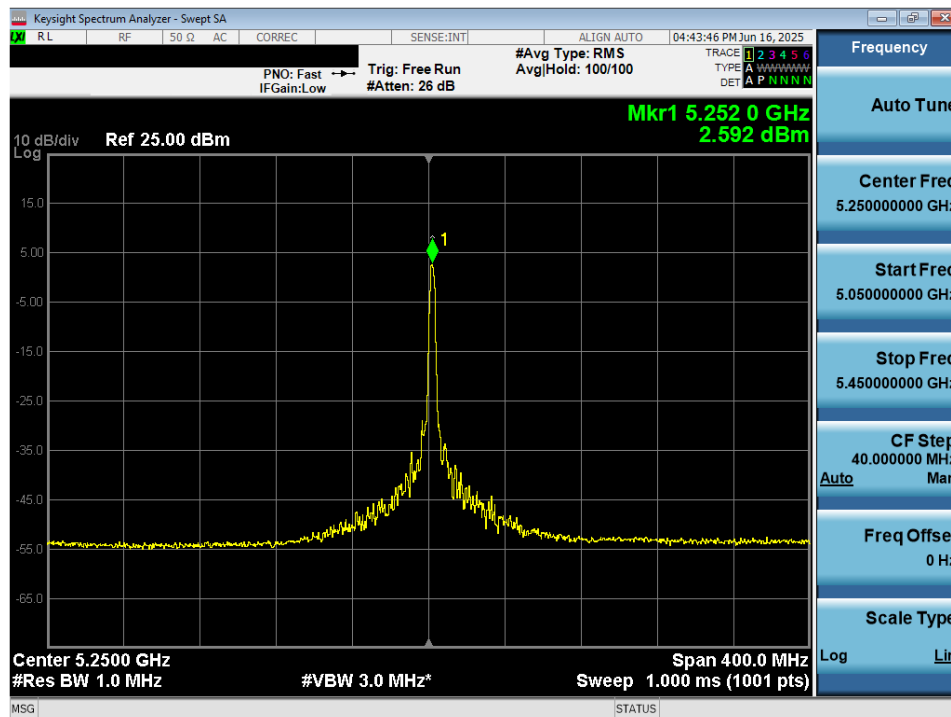


Plot 7-68. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 38)

FCC ID: A3LSMX736B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-12.A3L	Test Dates: 6/3 - 7/8/2025	EUT Type: Portable Tablet	Page 63 of 109

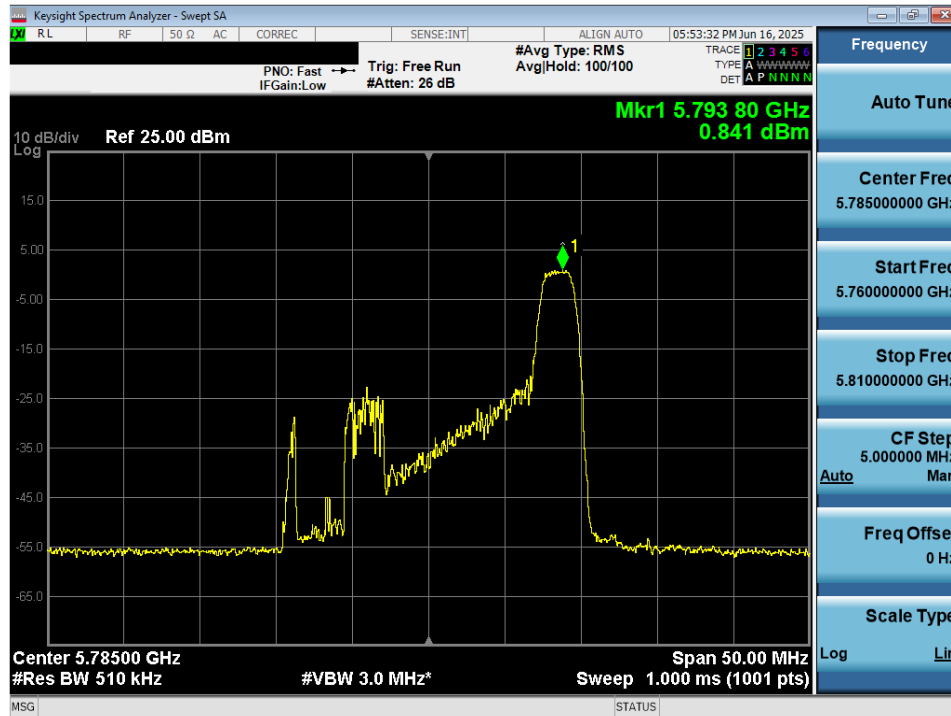


Plot 7-69. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 42)

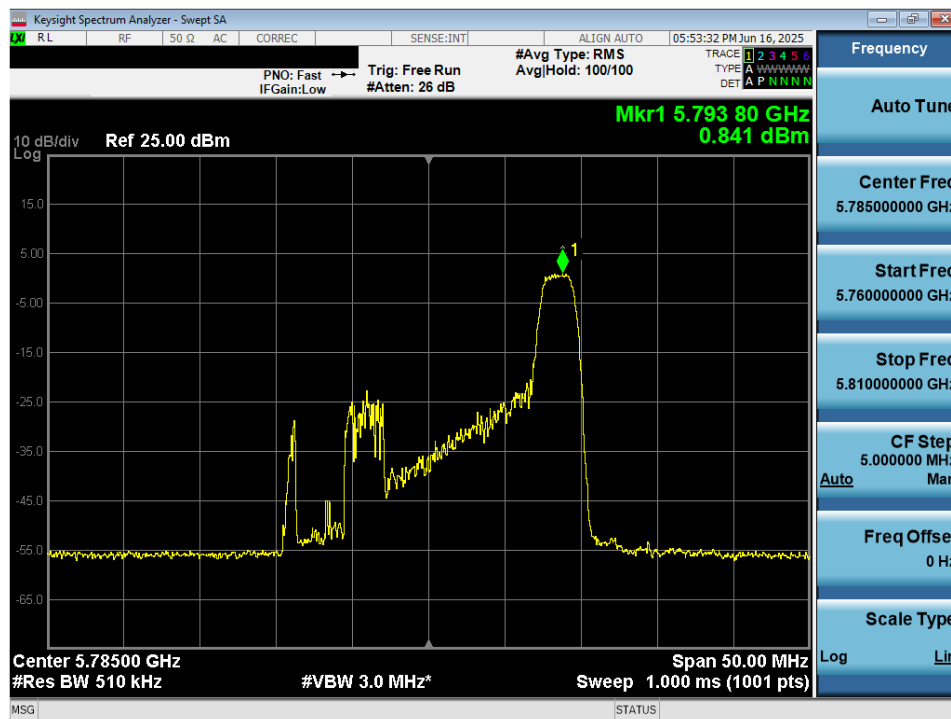


Plot 7-70. Power Spectral Density Plot MIMO ANT2 (160MHz BW 802.11ax – 26 Tones (UNII Band 1/2A) – Ch. 50)

FCC ID: A3LSMX736B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-12.A3L	Test Dates: 6/3 - 7/8/2025	EUT Type: Portable Tablet	Page 64 of 109

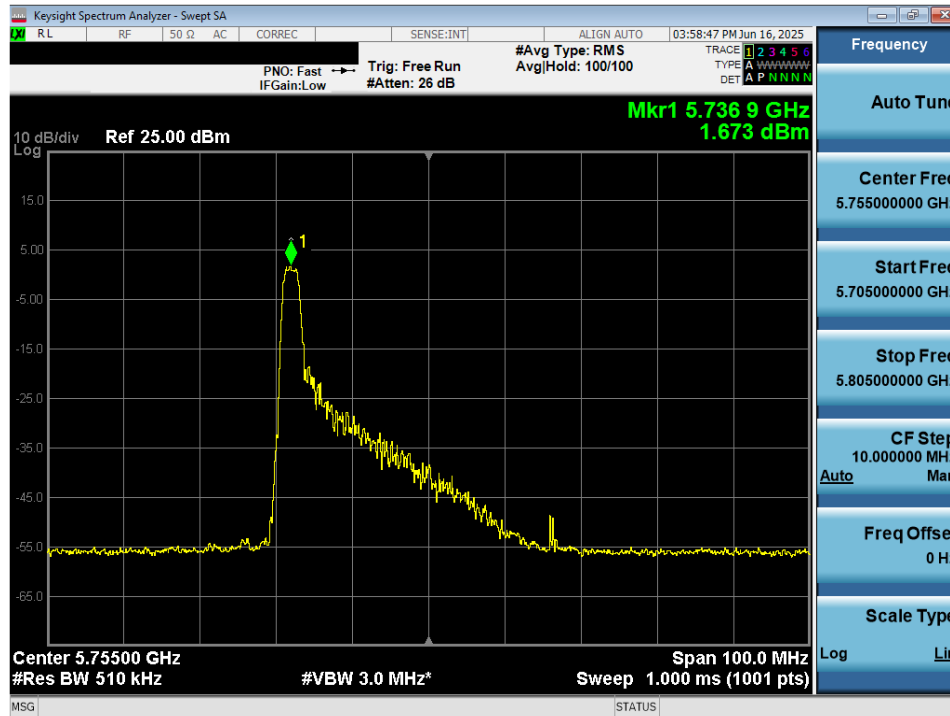


Plot 7-71. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 157)

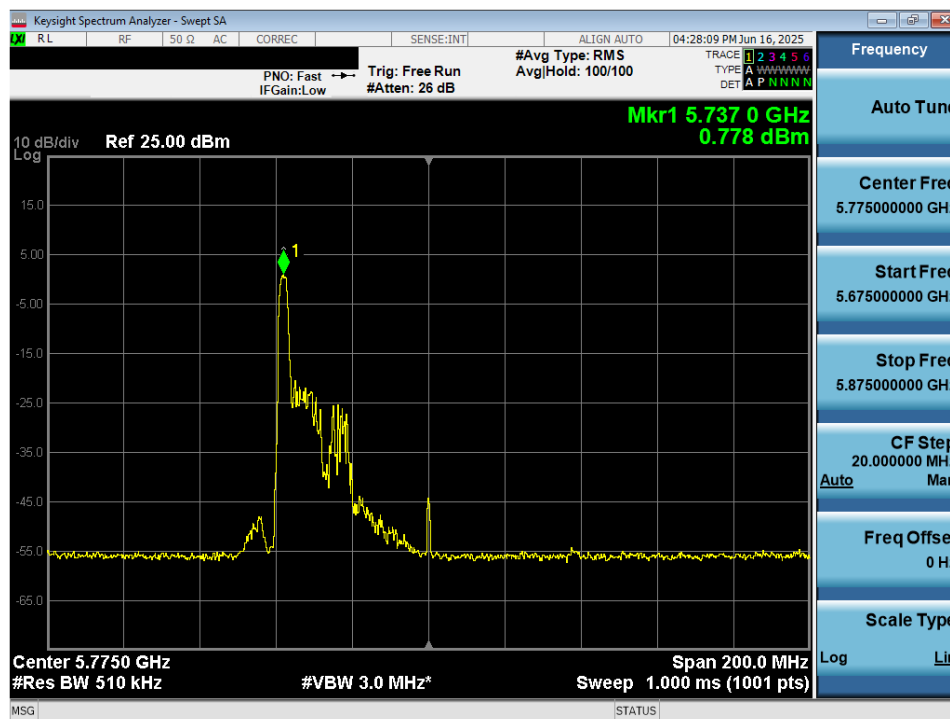


Plot 7-72. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 157)

FCC ID: A3LSMX736B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-12.A3L	Test Dates: 6/3 - 7/8/2025	EUT Type: Portable Tablet	Page 65 of 109

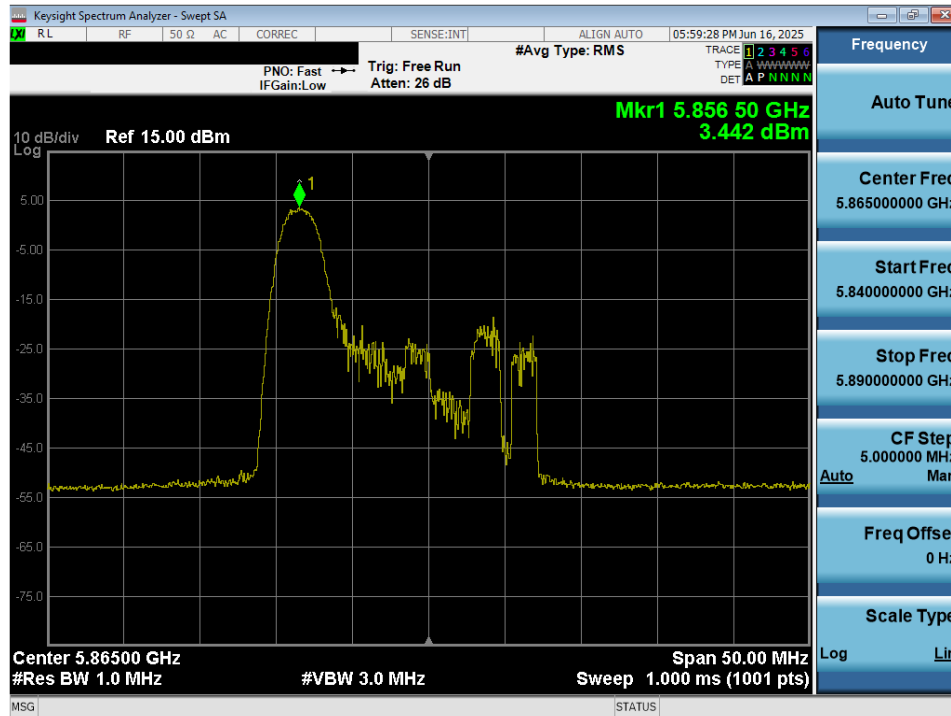


Plot 7-73. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 151)

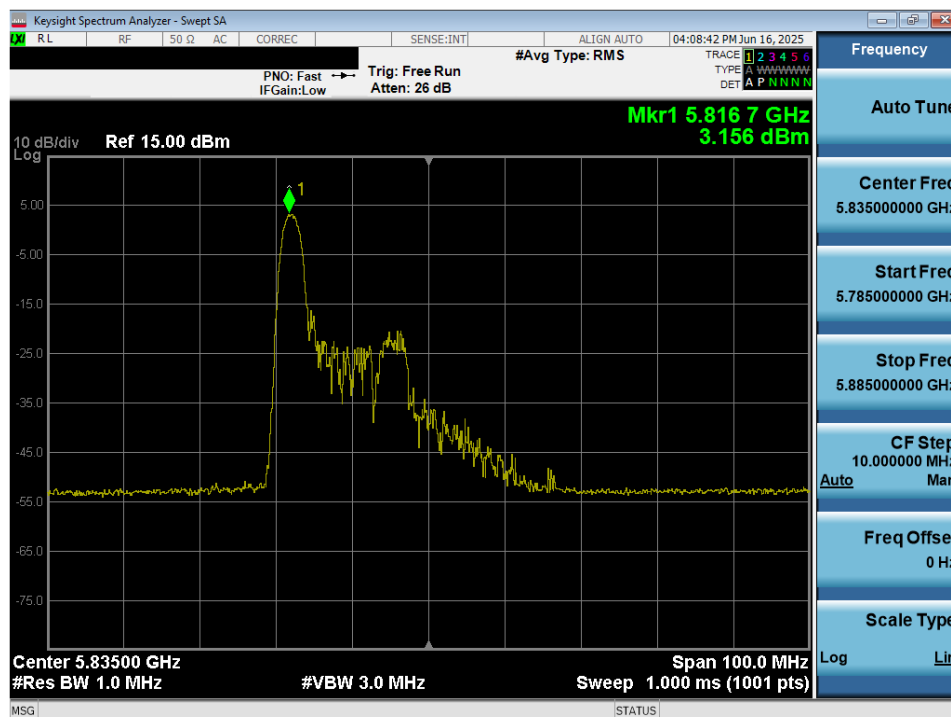


Plot 7-74. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 155)

FCC ID: A3LSMX736B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-12.A3L	Test Dates: 6/3 - 7/8/2025	EUT Type: Portable Tablet	Page 66 of 109

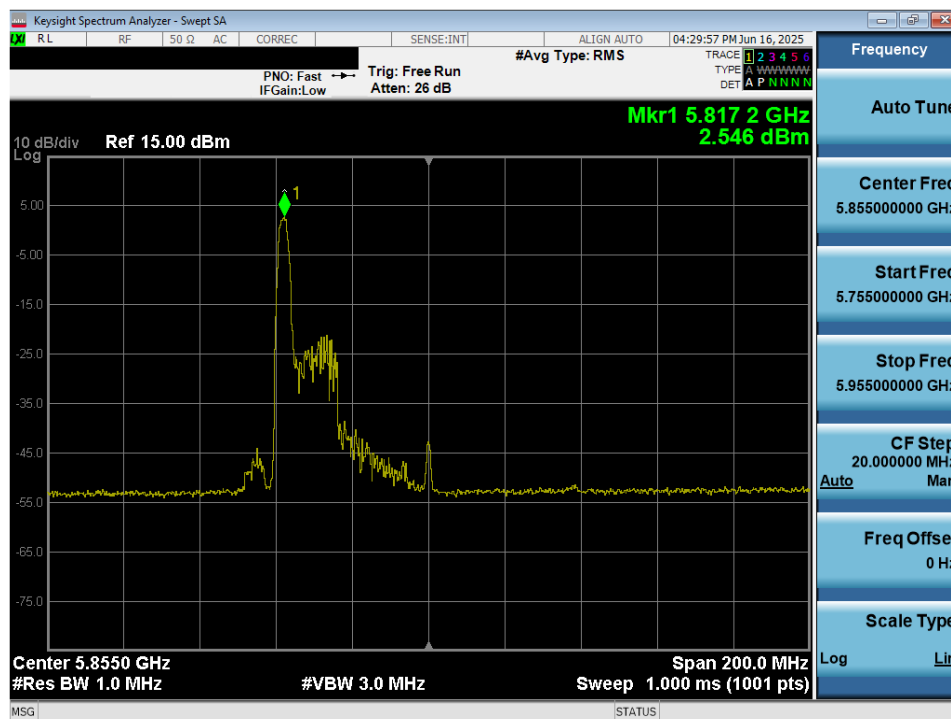


Plot 7-75. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 4) – Ch. 173)

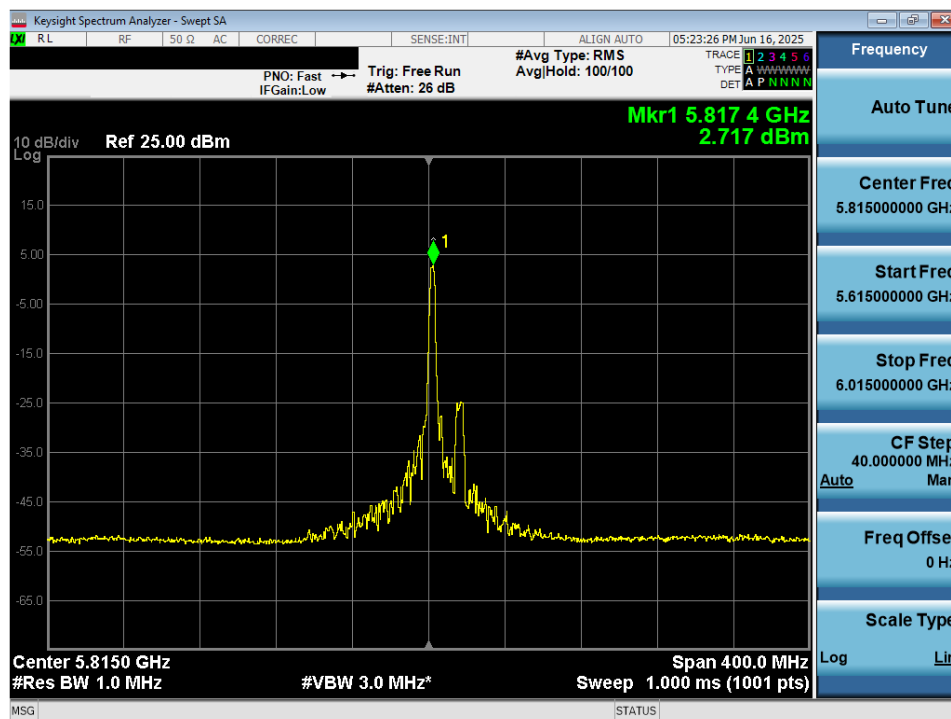


Plot 7-76. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 3/4) – Ch. 167)

FCC ID: A3LSMX736B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-12.A3L	Test Dates: 6/3 - 7/8/2025	EUT Type: Portable Tablet	Page 67 of 109

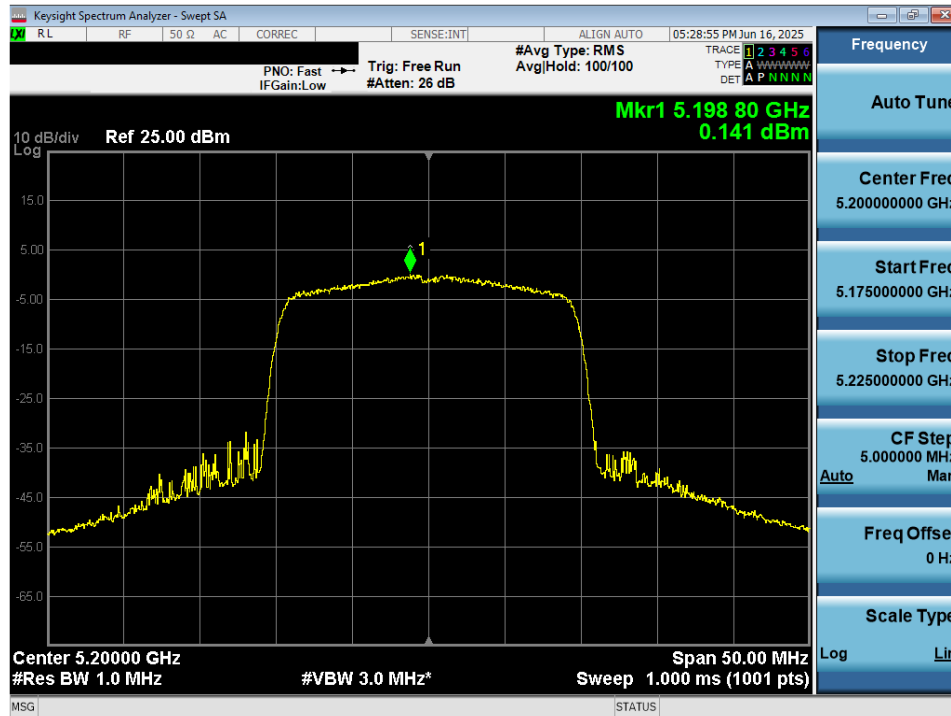


Plot 7-77. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax – 26 Tones (UNII Band 3/4) – Ch. 171)

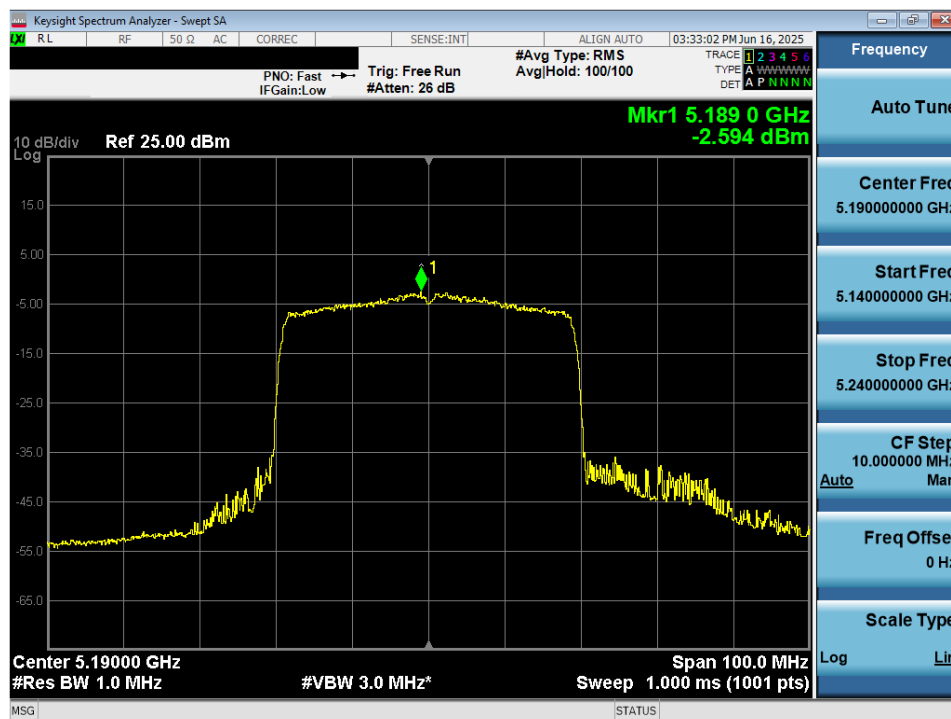


Plot 7-78. Power Spectral Density Plot MIMO ANT2 (160MHz(U) BW 802.11ax – 26 Tones (UNII Band 3/4) – Ch. 163)

FCC ID: A3LSMX736B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-12.A3L	Test Dates: 6/3 - 7/8/2025	EUT Type: Portable Tablet	Page 68 of 109

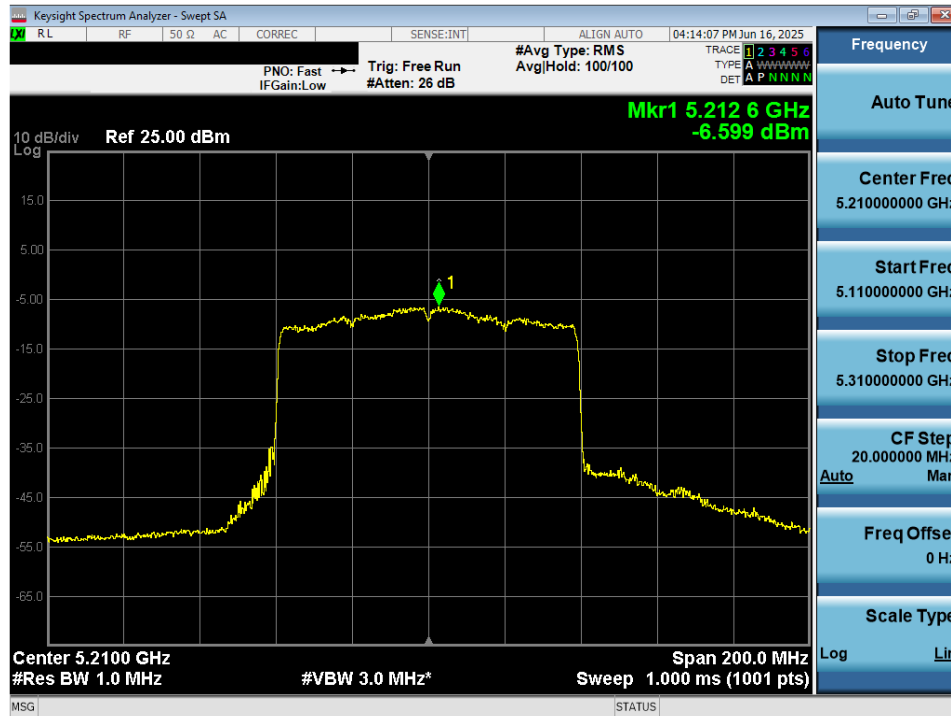


Plot 7-79. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – 242 Tones (UNII Band 1) – Ch. 40)

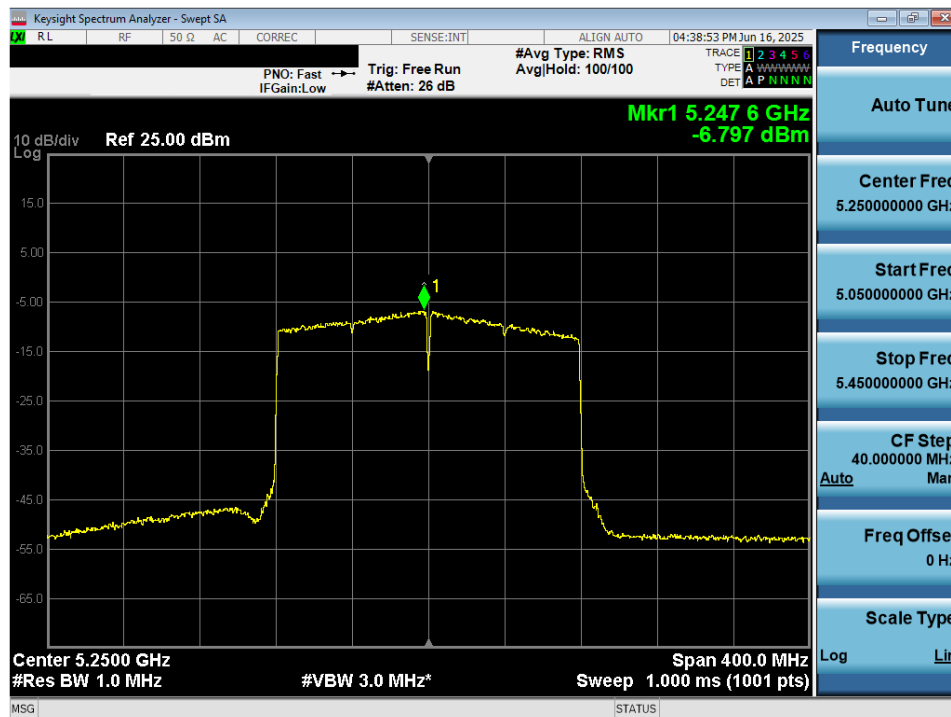


Plot 7-80. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax – 484 Tones (UNII Band 1) – Ch. 38)

FCC ID: A3LSMX736B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-12.A3L	Test Dates: 6/3 - 7/8/2025	EUT Type: Portable Tablet	Page 69 of 109

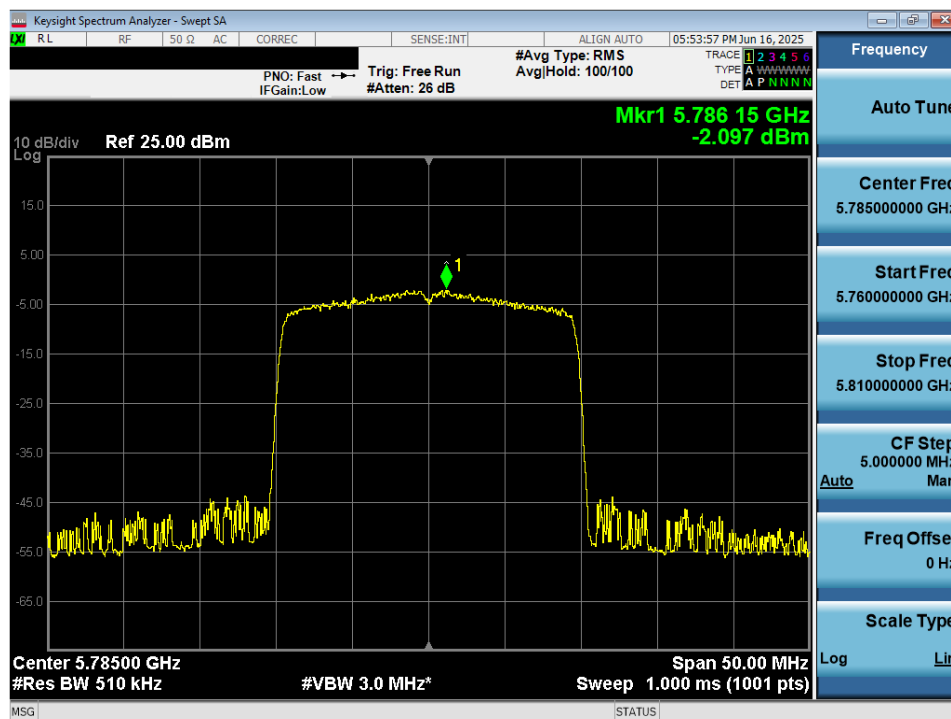


Plot 7-81. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax – 996 Tones (UNII Band 1) – Ch. 42)

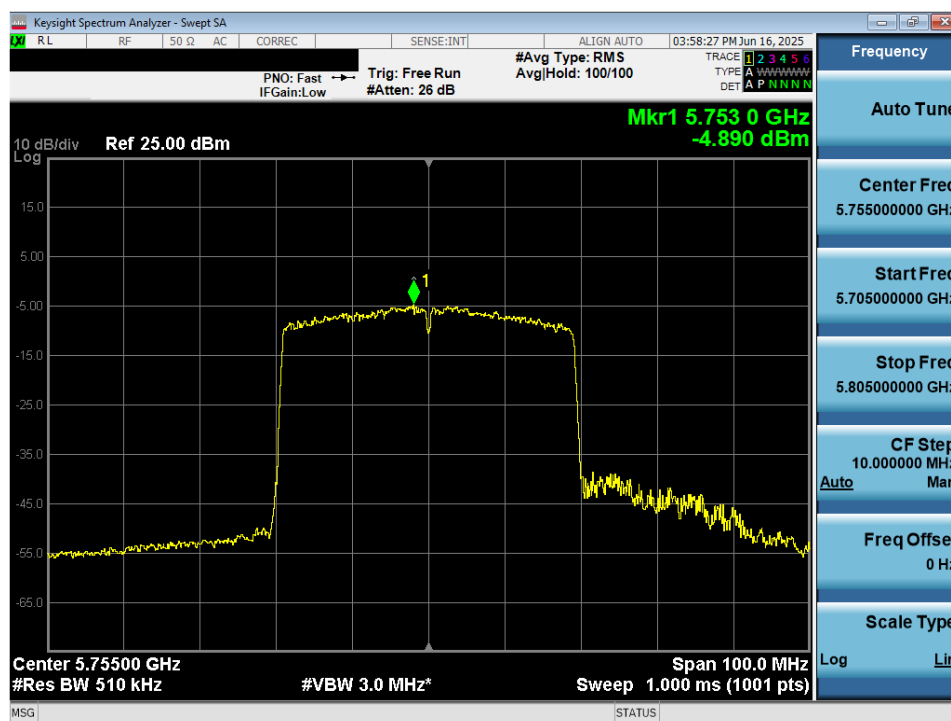


Plot 7-82. Power Spectral Density Plot MIMO ANT2 (160MHz BW 802.11ax – 2x996 Tones (UNII Band 1/2A) – Ch. 50)

FCC ID: A3LSMX736B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-12.A3L	Test Dates: 6/3 - 7/8/2025	EUT Type: Portable Tablet	Page 70 of 109

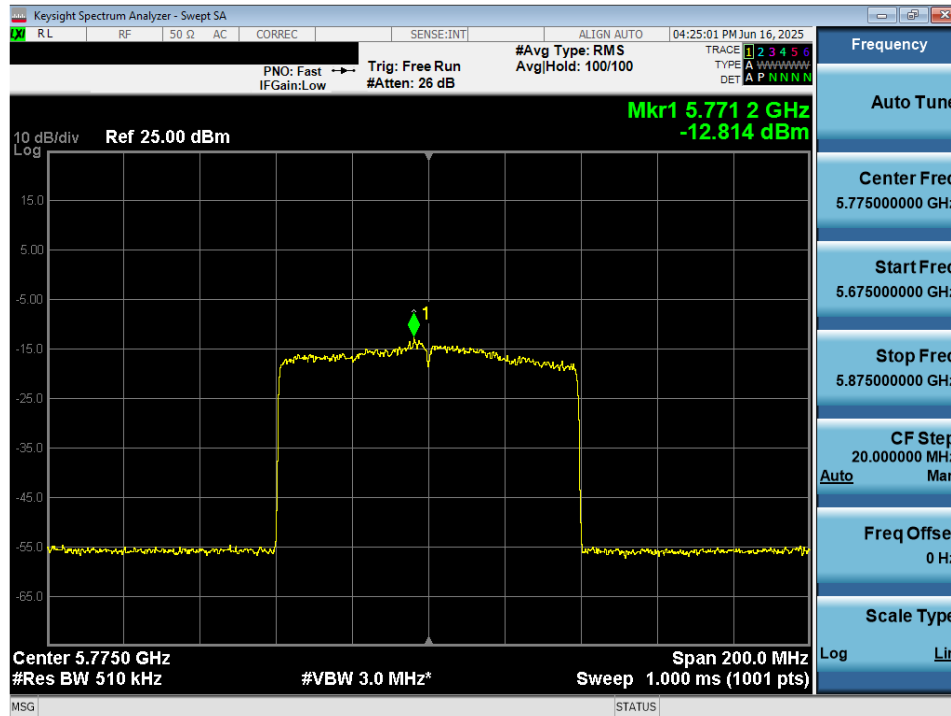


Plot 7-83. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – 242 Tones (UNII Band 3) – Ch. 157)

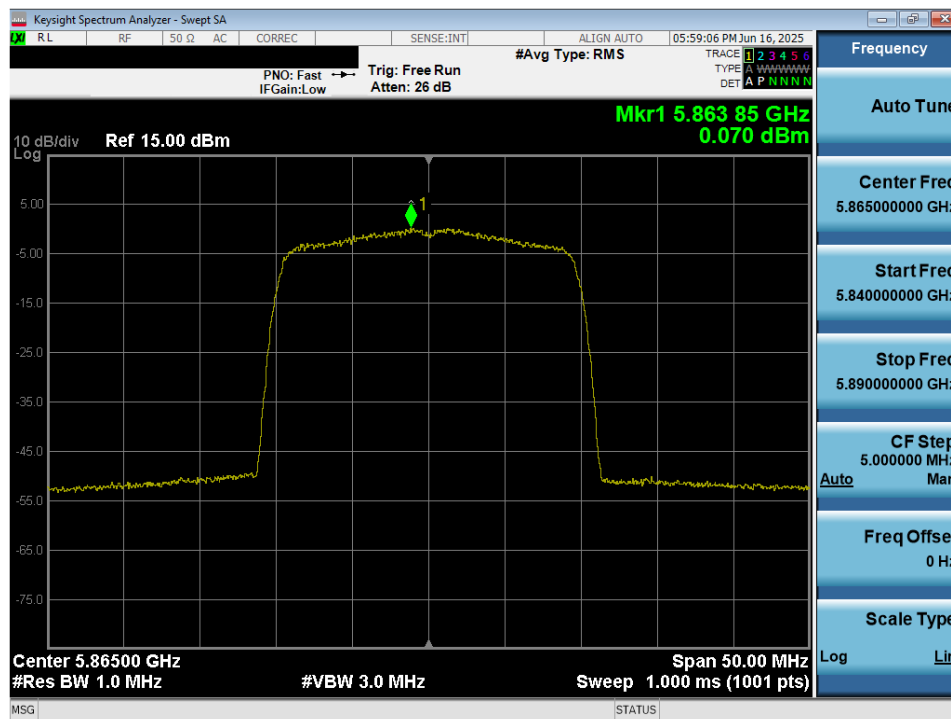


Plot 7-84. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax – 484 Tones (UNII Band 3) – Ch. 151)

FCC ID: A3LSMX736B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-12.A3L	Test Dates: 6/3 - 7/8/2025	EUT Type: Portable Tablet	Page 71 of 109

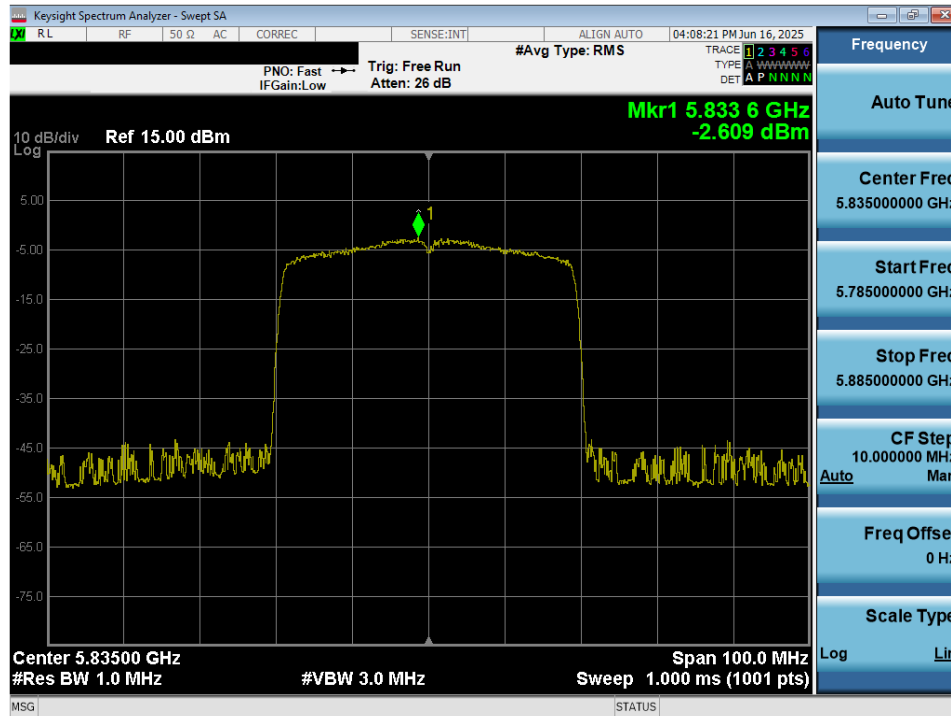


Plot 7-85. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax – 996 Tones (UNII Band 3) – Ch. 155)

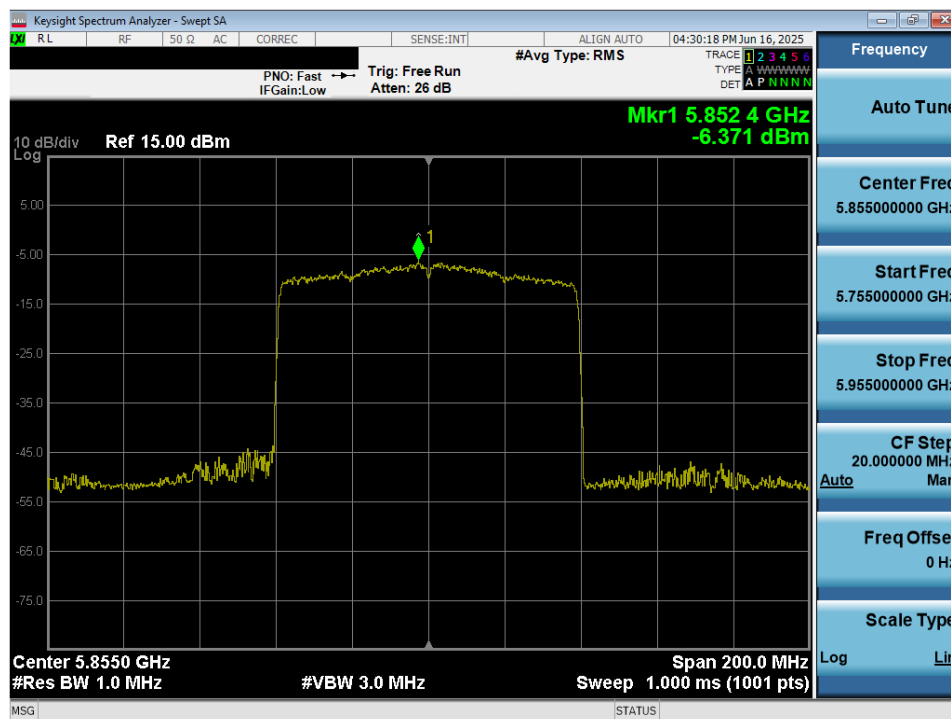


Plot 7-86. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – 242 Tones (UNII Band 4) – Ch. 173)

FCC ID: A3LSMX736B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-12.A3L	Test Dates: 6/3 - 7/8/2025	EUT Type: Portable Tablet	Page 72 of 109



Plot 7-87. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax – 484 Tones (UNII Band 3/4) – Ch. 167)



Plot 7-88. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax – 996 Tones (UNII Band 3/4) – Ch. 171)

FCC ID: A3LSMX736B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-12.A3L	Test Dates: 6/3 - 7/8/2025	EUT Type: Portable Tablet	Page 73 of 109



Plot 7-89. Power Spectral Density Plot MIMO ANT2 (160MHz BW 802.11ax – 996*2 Tones (UNII Band 3/4) – Ch. 163)

FCC ID: A3LSMX736B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-12.A3L	Test Dates: 6/3 - 7/8/2025	EUT Type: Portable Tablet	Page 74 of 109

Note:

Per ANSI C63.10:2020 Section 14.5.2.2, the power spectral density at Antenna-1 and Antenna-2 were first measured separately with reduced Antenna-1 and Antenna-2 powers per manufacture's tune-up document. The measured values were then summed in linear power units then converted back to dBm.

Sample Directional Gain Calculation:

Assuming the antenna gain is -9.50 dBi for Antenna-1 and -5.1 dBi for Antenna-2.

$$\begin{aligned} \text{Directional gain} &= 10 \log[(10^{G_1/20} + 10^{G_2/20} + \dots + 10^{G_N/20})^2 / N_{\text{ANT}}] \text{ dBi} \\ &= 10 \log[(10^{-9.50/20} + 10^{-5.10/20} / 2] \text{ dBi} \\ &= (-4.01) \text{ dBi} \end{aligned}$$

Sample MIMO Calculation:

Assuming the average conducted power spectral density was measured to be 5.88 dBm for Antenna-1 and 6.27 dBm for Antenna-2.

$$\text{Antenna-1} + \text{Antenna-2} = \text{MIMO}$$

$$(2.36 \text{ dBm} + 3.31 \text{ dBm}) = (1.721 \text{ mW} + 2.143 \text{ mW}) = 3.864 \text{ mW} = 5.87 \text{ dBm}$$

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

Assuming the average MIMO power density was calculated to be 5.87 dBm with directional gain of -4.01 dBi.

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

$$5.87 \text{ dBm} + (-4.01) \text{ dBi} = 1.86 \text{ dBm}$$

FCC ID: A3LSMX736B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-12.A3L	Test Dates: 6/3 - 7/8/2025	EUT Type: Portable Tablet	Page 75 of 109

7.6 Radiated Emission Measurements

Test Overview and Limit

All out of band radiated spurious emissions are measured with a spectrum analyzer connected to a receive antenna while the EUT is operating at its maximum duty cycle, at its maximum power control level, as defined in ANSI C63.10:2020, and at the appropriate frequencies. All channels, modes, and modulations/data rates were investigated among all UNII bands. Only the radiated emissions of the configuration that produced the worst-case emissions are reported in this section.

For transmitters operating in the 5.15-5.25 GHz and 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz.

For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an EIRP of -27 dBm/MHz.

For transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

For transmitters operating in the 5.850 – 5.895 GHz band: all emissions at or above 5.895GHz shall not exceed an e.i.r.p. of -5dBm/MHz and shall decrease linearly up to an e.i.r.p. of -27dBm/MHz at or above 5.925GHz, and all emissions below 5.725 GHz shall not exceed an e.i.r.p. of -27dBm/MHz at 5.65 GHz increasing linearly to 10dBm/MHz at 5.7GHz and from 5.7GHz increasing linearly to a level of 15.6dBm/MHz at 5.72GHz, and from 5.72GHz increasing linearly to a level of 27dBm/MHz at 5.725GHz.

All out of band emissions appearing in a restricted band as specified in FCC §15.205 of the Title 47 CFR and Table 6 of RSS-Gen (8.10) must not exceed the limits shown in the table below per FCC §15.209 and RSS-Gen (8.9).

Frequency	Field Strength [μV/m]	Measured Distance [Meters]
0.009 – 0.490 MHz	2400\√F (kHz)	300
0.490 – 1.705 MHz	24000\√F (kHz)	30
1.705 – 30.00 MHz	30	30
30.00 – 88.00 MHz	100	3
88.00 – 216.0 MHz	150	3
216.0 – 960.0 MHz	200	3
Above 960.0 MHz	500	3

Table 7-23. Radiated Limits

Test Procedures Used

ANSI C63.10:2020 – Sections 12.7.7.2, 12.7.6, 12.7.5 (Radiated Spurious Emissions)

ANSI C63.10:2020 – Section 12.7.4.4 (Band Edge Measurements)

FCC ID: A3LSMX736B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-12.A3L	Test Dates: 6/3 - 7/8/2025	EUT Type: Portable Tablet	Page 76 of 109

Test Settings – Above 1GHz

Average Field Strength Measurements (Method AD – Average Detection)

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

Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest.
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize.

Test Settings – Below 1GHz

Quasi-Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest.
2. RBW = 120kHz (for emissions from 30MHz – 1GHz)
3. Detector = quasi-peak
4. Sweep time = auto couple
5. Trace mode = max hold
6. Trace was allowed to stabilize.

Test Setup

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

FCC ID: A3LSMX736B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-12.A3L	Test Dates: 6/3 - 7/8/2025	EUT Type: Portable Tablet	Page 77 of 109

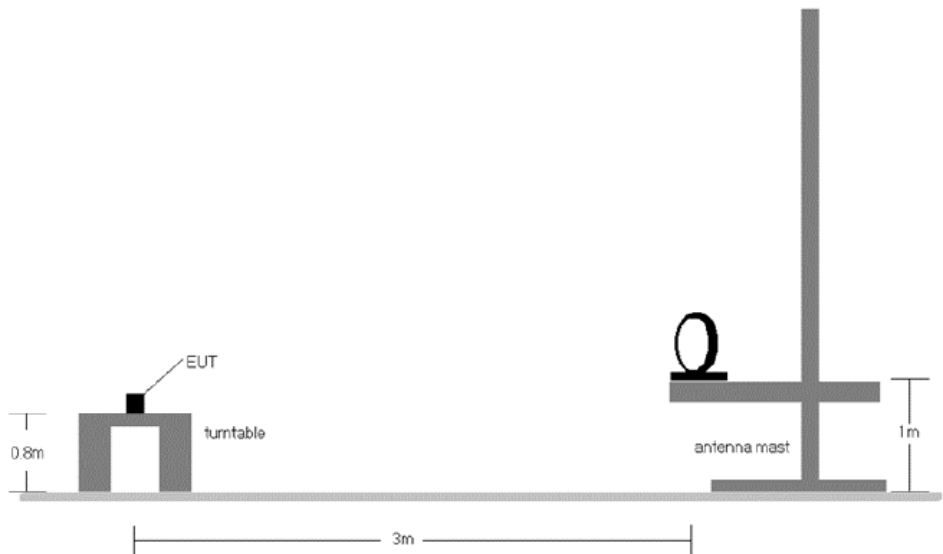


Figure 7-5. Radiated Test Setup < 30MHz

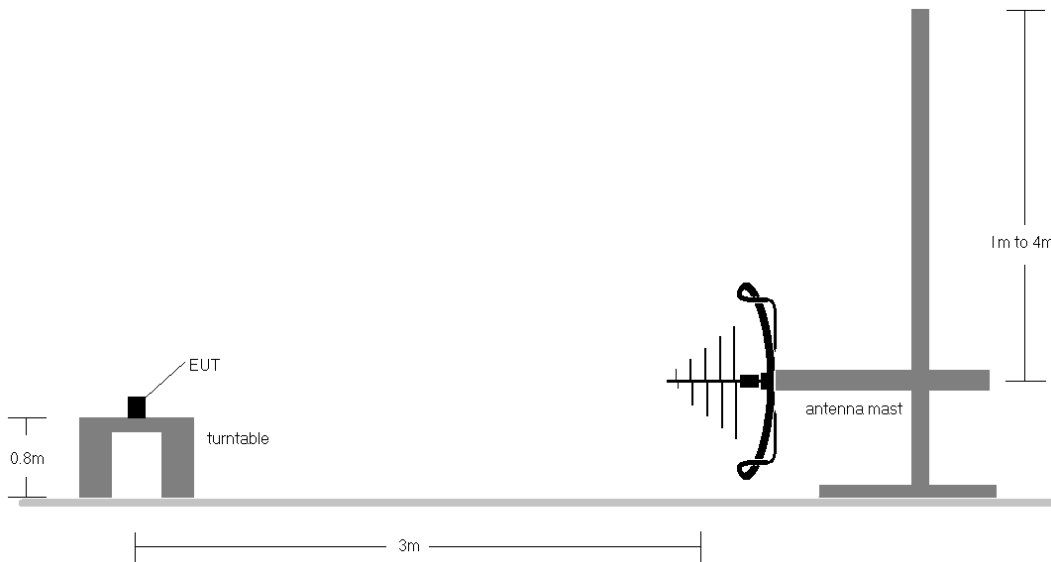


Figure 7-6. Radiated Test Setup < 1GHz

FCC ID: A3LSMX736B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-12.A3L	Test Dates: 6/3 - 7/8/2025	EUT Type: Portable Tablet	Page 78 of 109

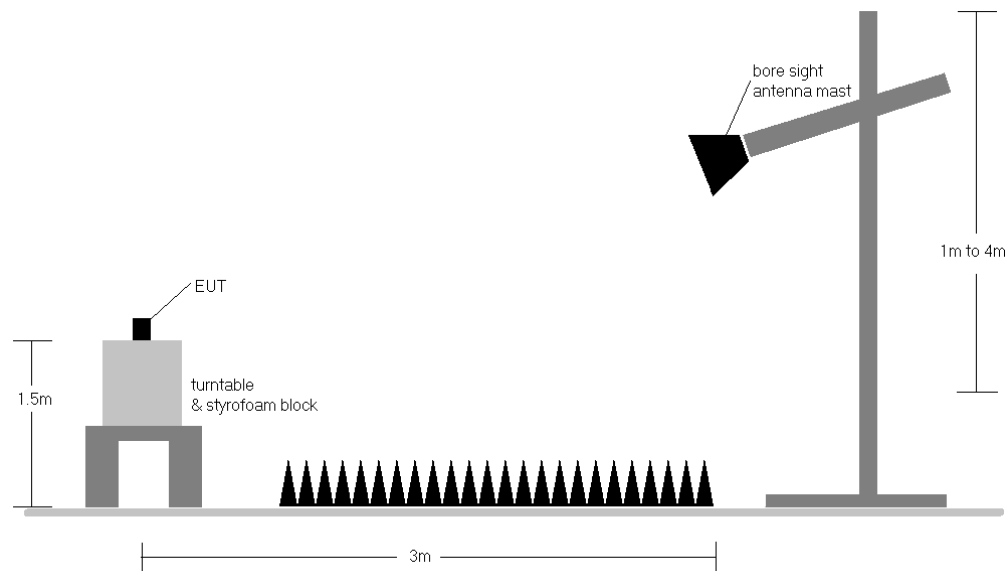


Figure 7-7. Radiated Test Setup > 1GHz

FCC ID: A3LSMX736B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-12.A3L	Test Dates: 6/3 - 7/8/2025	EUT Type: Portable Tablet	Page 79 of 109

Test Notes

1. All spurious emissions lying in restricted bands specified in §15.205 are below the limit shown in §15.209. All spurious emissions that do not lie in a restricted band are subject to an average limit of -27dBm/MHz. At 3 meters, the field strength limit in dB μ V/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions of 68.2dB μ V/m.
2. All spurious emissions that do not lie in a restricted band are subject to a peak limit not to exceed 20dB of the average limit [68.2dB μ V/m]. If a peak measurement passes the average limit, it was determined no further investigation is necessary.
3. The antenna is manipulated through typical positions, polarity, and length during the tests. The EUT is manipulated through three orthogonal planes.
4. The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter using CISPR quasi peak detector below 1GHz. Above 1 GHz, average and peak measurements were taken using linearly polarized horn antennas. The worst-case emissions are reported, however emissions whose levels were not within 20dB of the respective limits were not reported.
5. Emissions below 18GHz were measured at a 3-meter test distance while emissions above 18GHz were measured at a 1-meter test distance with the application of a distance correction factor.
6. The wide spectrum spurious emissions plots shown on the following pages are used only for the purpose of emission identification. Any emissions found to be within 20dB of the limit are fully investigated and the results are shown in this section.
7. The "-" shown in the following RSE tables are used to denote a noise floor measurement.
8. In the case where a peak-detector measurement passed the given RMS limit it was determined sufficient to demonstrate compliance.
9. The results recorded using the broadband antenna are known to correlate with the results obtained by using a tuned dipole with an acceptable degree of accuracy. The VSWR for the measurement antenna was found to be less than 2:1.
10. For radiated measurements, emissions were investigated for the fully-loaded RU configuration and for all of the partially-loaded RU configurations. Among all of the available partially-loaded RU configurations, only the configuration with the worst case emissions is reported.

FCC ID: A3LSMX736B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-12.A3L	Test Dates: 6/3 - 7/8/2025	EUT Type: Portable Tablet	Page 80 of 109

Sample Calculations

Determining Spurious Emissions Levels

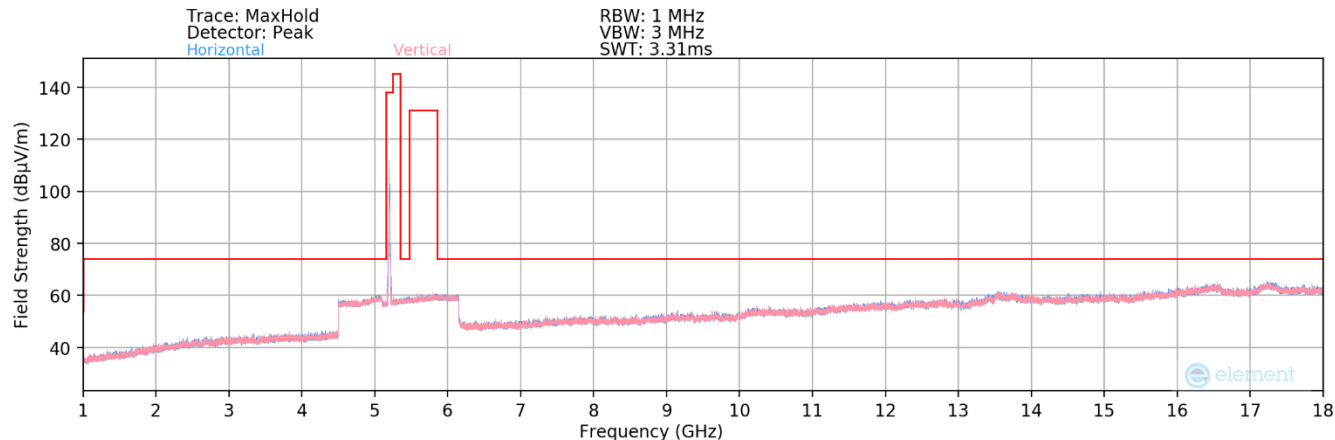
- Field Strength Level $_{\text{[dB}\mu\text{V/m]}} = \text{Analyzer Level}_{\text{[dBm]}} + 107 + \text{AFCL}_{\text{[dB/m]}}$
- $\text{AFCL}_{\text{[dB/m]}} = \text{Antenna Factor}_{\text{[dB/m]}} + \text{Cable Loss}_{\text{[dB]}}$
- $\text{Margin}_{\text{[dB]}} = \text{Field Strength Level}_{\text{[dB}\mu\text{V/m]}}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

Radiated Band Edge Measurement Offset

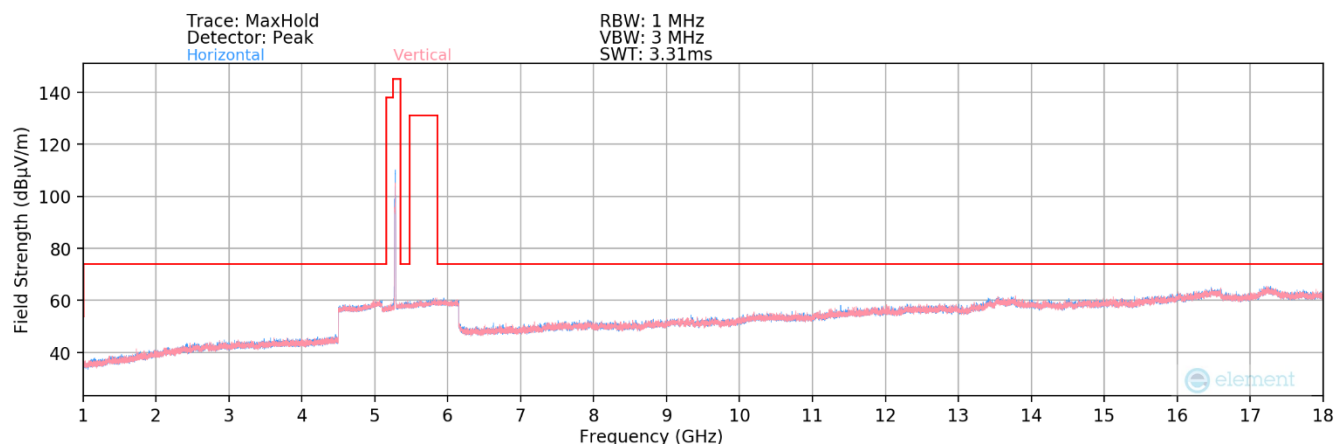
- The amplitude offset shown in the radiated restricted band edge plots in Section Radiated Spurious Emission Measurements – Above 1GHz was calculated using the formula:
Offset (dB) = (Antenna Factor + Cable Loss + Attenuator) – Preamplifier Gain

FCC ID: A3LSMX736B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-12.A3L	Test Dates: 6/3 - 7/8/2025	EUT Type: Portable Tablet	Page 81 of 109

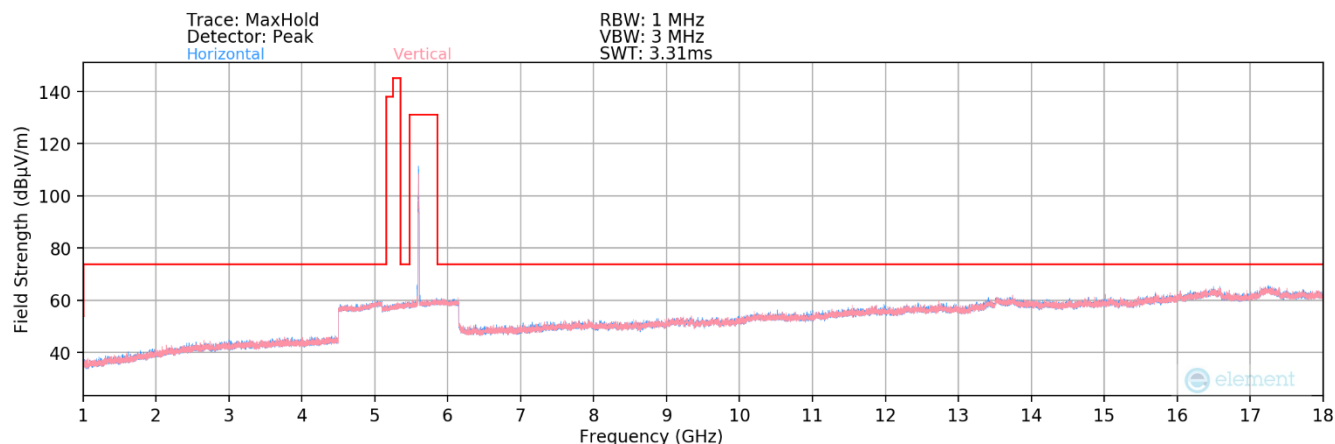
7.6.1 MIMO Radiated Spurious Emission Measurements (26 Tones)



Plot 7-90. Radiated Spurious Plot above 1GHz MIMO (802.11ax – UNII 1 Ch. 40)



Plot 7-91. Radiated Spurious Plot above 1GHz MIMO (802.11ax – UNII 2A Ch. 56)



Plot 7-92. Radiated Spurious Plot above 1GHz MIMO (802.11ax – UNII 2C Ch. 120)

FCC ID: A3LSMX736B	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-12.A3L	Test Dates: 6/3 - 7/8/2025	EUT Type: Portable Tablet	Page 82 of 109