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MEASUREMENT REPORT

FCC PART 15.247/ ISED RSS-247 802.11ax/be (OFDMA)

Applicant Name:
Microsoft Corporation
One Microsoft Way
Redmond, WA 98052
United States

Date of Testing:
12/16/2025 - 03/11/2026
Test Report Issue Date:
3/24/2026
Test Site/Location:
Element lab., Columbia, MD, USA
Test Report Serial No.:
1M2511240098-08-R1.C3K

FCC ID:	**C3K2076**
IC:	**3048A-2076**
APPLICANT:	**Microsoft Corporation**

Application Type:	Class II Permissive Change
Model/HVIN:	2076
EUT Type:	Portable Computing Device
Frequency Range:	2412 – 2472MHz
Modulation Type:	OFDMA
FCC Classification:	Digital Transmission System (DTS)
FCC Rule Part(s):	Part 15 Subpart C (15.247)
ISED Specification:	RSS-247 Issue 4
FCC Test Procedure(s):	ANSI C63.10:2020 + Cor. 1:2023, KDB 558074 D01 v05r02
ISED Test Procedure(s):	ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024, KDB 558074 D01 v05r02
Class II Permissive Change:	Please see FCC change document
Original Grant Date:	05/14/2024

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

This revised Test Report (S/N: 1M2511240098-08-R1.C3K) supersedes and replaces the previously issued test report (S/N: 1M2511240098-08.C3K) on the same subject device for the same type of testing as indicated. Please discard or destroy the previously issued test report(s) and dispose of it accordingly.

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

RJ Ortanez
Executive Vice President

ACCREDITED
CERT #2041.01

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TEST REPORT REVISION HISTORY

Rev. No.	Description	Issue Date	Revised By
-	Initial Release	3/12/2026	WKR0000005874
1	Addressed TCB reviewer comments	3/24/2026	WKR0000020239

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Channel Bandwidth [MHz]	IEEE Mode	Tones	Tx Frequency [MHz]	MIMO			
				Avg. Conducted		Peak Conducted	
				Max. Power [mW]	Max. Power [dBm]	Max. Power [mW]	Max. Power [dBm]
20	802.11ax/be OFDMA	26T	2412 - 2472	156.52	21.95	982.39	29.92
	802.11ax/be OFDMA	52T	2412 - 2472	145.42	21.63	907.28	29.58
	802.11be OFDMA	52+26T	2412 - 2472	148.81	21.73	903.80	29.56
	802.11ax/be OFDMA	106T	2412 - 2472	141.65	21.51	825.28	29.17
	802.11be OFDMA	106+26T	2412 - 2472	147.96	21.70	980.83	29.92
	802.11ax/be OFDMA	242T	2412 - 2472	96.68	19.85	485.36	26.86
40	802.11ax/be OFDMA	484T	2412 - 2472	50.88	17.07	365.63	25.63

EUT Overview

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1.0 INTRODUCTION

1.1 Scope

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

1.2 Element Test Location

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

1.3 Test Facility / Accreditations

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

- Element Washington DC LLC is an ISO 17025-2017 accredited test facility under the American Association for Laboratory Accreditation (A2LA) with Certificate number 2041.01 for Specific Absorption Rate (SAR), Hearing Aid Compatibility (HAC) testing, where applicable, and Electromagnetic Compatibility (EMC) testing for FCC and Innovation, Science, and Economic Development Canada rules.

- Element Washington DC LLC TCB is a Telecommunication Certification Body (TCB) accredited to ISO/IEC 17065-2012 by A2LA (Certificate number 2041.03) in all scopes of FCC Rules and ISED Standards (RSS).

- Element Washington DC LLC facility is a registered (2451B) test laboratory with the site description on file with ISED.

- Element Washington DC LLC is a Recognized U.S. Certification Assessment Body (CAB # US0110) for ISED Canada as designated by NIST under the U.S. and Canada Mutual Recognition Agreements (MRAs).

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2.0 PRODUCT INFORMATION

2.1 Equipment Description

The Equipment Under Test (EUT) is the **Microsoft Corporation Portable Computing Device FCC ID: C3K2076/ IC: 3048A-2076**. The test data contained in this report pertains only to the emissions due to the EUT's WLAN (DTS) transmitter.

This report is being issued as a Class II Permissive Change due to new antenna design due to enclosure changes near the antenna and higher antenna gains. Full details are provided in the change description. The test data in this report demonstrates the continued compliance to FCC Part 15.247 and ISED RSS-247.

The authorization for this device utilizes data referencing from FCC ID: C3K2086 as permitted per KDB 484596 D01 v03. Additionally, data referencing is being utilized from IC ID: 3048A-2085 as per the original authorization for this device per ISED Inquiry confirmation April 2, 2024 (included in filing). Data referencing data test results are included in Appendix A of this report.

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

2.2 Device Capabilities

This device contains the following capabilities:

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

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

Table 2-1. Frequency/ Channel Operations

Notes:

1. The maximum achievable duty cycles for all modes were determined based on measurements performed on a spectrum analyzer in zero-span mode with RBW = 8MHz, VBW = 50MHz, and detector = peak per the guidance of Section 6.0 b) of ANSI C63.10-2020 and KDB 558074 D01 v05r02. The RBW and VBW were both greater than 50/T, where T is the minimum transmission duration, and the number of sweep points across T was greater than 100. The duty cycles are as follows:

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Band	Bandwidth	Tone Type	Tone Size	MIMO (1+2) Duty Cycle [%]
2.4GHz	20MHz	RU	26T	98.73
			52T	97.88
			106T	98.56
			242T	98.02
		MRU	52+26T	98.85
			106+26T	98.85
	40MHz	RU	26T	98.73
			52T	98.86
			106T	98.79
			242T	98.01
			484T	96.63

Table 2-2. Measured Duty Cycles

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

WiFi Configurations		SDM		CDD	
		ANT1	ANT2	ANT1	ANT2
2.4GHz	11ax/be	✓	✓	✓	✓

Table 2-3. Antenna Configuration

✓= Support ; × = NOT Support
MIMO = 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/be)															OFDMA (802.11be)					
			26T			52T			106T			242T			484T			52+26T			106+26T		
HE	EHT		0.8µs GI	1.6µs GI	3.2µs GI	0.8µs GI	1.6µs GI	3.2µs GI	0.8µs GI	1.6µs GI	3.2µs GI	0.8µs GI	1.6µs GI	3.2µs GI	0.8µs GI	1.6µs GI	3.2µs GI	0.8µs GI	1.6µs GI	3.2µs GI	0.8µs GI	1.6µs GI	3.2µs GI
0	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	17.2	16.3	14.6	2.6	2.5	2.3
1	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	34.4	32.5	29.3	5.3	5	4.5
2	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	51.6	48.8	43.9	7.9	7.5	6.8
3	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	68.8	65	58.5	10.6	10	9
4	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	103.2	97.5	87.8	15.9	15	13.5
5	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	137.6	130	117	21.2	20	18
6	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	154.9	146.3	131.6	23.8	22.5	20.3
7	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	172.1	162.5	146.3	26.5	25	22.5
8	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	206.5	195	175.5	31.8	30	27
9	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	229.4	216.7	195	35.3	33.3	30
10	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	258.1	243.8	219.4	39.7	37.5	33.8
11	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	286.8	270.8	243.8	44.1	41.7	37.5
	12	1	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	309.7	292.5	263.3	47.6	45	40.5
	13	1	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	344.1	325	292.5	52.9	50	45
0	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	34.4	32.5	29.3	5.3	5	4.5
1	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	68.8	65	58.5	10.6	10	9
2	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	103.2	97.5	87.8	15.9	15	13.5
3	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	137.6	130	117	21.2	20	18
4	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	206.5	195	175.5	31.8	30	27
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	275.3	260	234	42.4	40	36
6	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	309.7	292.5	263.3	47.6	45	40.5
7	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	344.1	325	292.5	52.9	50	45
8	8	2	21.2	20	18	42.4	40	36	90	85	76.5	206.5	195	175.5	412.9	390	351	412.9	390	351	63.5	60	54
9	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	458.8	433.3	390	70.6	66.7	60
10	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	516.2	487.5	438.8	79.4	75	67.5
11	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	573.5	541.7	487.5	88.2	83.3	75
	12	2	31.8	30	27	63.5	60	54	135	127.5	114.8	309.7	292.5	263.3	619.4	585	526.5	619.4	585	526.5	95.3	90	81
	13	2	35.3	33.3	30	70.6	66.7	60	150	141.7	127.5	344.1	325	292.5	688.2	650	585	688.2	650	585	105.9	100	90

Table 2-4. Supported Data Rates

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2.3 Test Configuration

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

ANSI C63.10-2020 was used to reference the appropriate EUT setup for radiated spurious emissions testing. See Sections 7.7 for radiated emissions test setups, and 7.2, 7.3, 7.4, 7.5, and 7.6 for antenna port conducted emissions test setups.

2.4 Antenna Description

The following antenna gains were used for the testing.

Frequency [GHz]	Antenna-1 Gain [dBi]	Antenna-2 Gain [dBi]	Directional Gain [dBi]
2.4	1.91	3.27	5.63

Table 2-5. Antenna Peak Gain - LCD

Frequency [GHz]	Antenna-1 Gain [dBi]	Antenna-2 Gain [dBi]	Directional Gain [dBi]
2.4	-0.28	2.45	4.20

Table 2-6. Antenna Peak Gain - OLED

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

2.5 Software and Firmware

The test was conducted with firmware version 2025.1111.11121401 installed on the UUT.

2.6 EMI Suppression Device(s)/Modifications

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

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3.0 DESCRIPTION OF TESTS

3.1 Evaluation Procedure

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

Deviation from measurement procedure…….....None

3.2 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).

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4.0 ANTENNA REQUIREMENTS

Excerpt from §15.203 of the FCC Rules/Regulations:
"An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section."

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

Conclusion:

The EUT unit complies with the requirement of §15.203.

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5.0 MEASUREMENT UNCERTAINTY

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

Contribution	Expanded Uncertainty (±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

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6.0 TEST EQUIPMENT CALIBRATION DATA

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

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
-	MD 1M 18-40	EMC Cable and Switch System	2/25/2025	Annual	2/25/2026	MD 1M 40
-	AP2-001	EMC Cable and Switch System	2/25/2025	Annual	2/25/2026	AP2-001
-	AP2-002	EMC Cable and Switch System	2/25/2025	Annual	2/25/2026	AP2-002
-	ETS-001	EMC Cable and Switch System	1/29/2026	Annual	1/29/2027	ETS-001
-	ETS-002	EMC Cable and Switch System	1/29/2026	Annual	1/29/2027	ETS-002
-	WL25-1	Conducted Cable Set (25GHz)	2/25/2025	Annual	2/25/2026	WL25-1
-	WL40-1	Conducted Cable Set (40GHz)	2/25/2025	Annual	2/25/2026	WL40-1
Rohde & Schwarz	ESU40	EMI Test Receiver (40GHz)	1/16/2026	Annual	1/16/2027	100348
Rohde & Schwarz	ESW44	EMI Test Receiver 2Hz to 44 GHz	3/25/2025	Annual	3/25/2026	101716
Agilent	N9038A	MXE EMI Receiver	11/10/2025	Annual	11/10/2026	MY51210133
Agilent	N9030A	3Hz-44GHz PXA Signal Analyzer	9/15/2025	Annual	9/15/2026	MY49430494
ETS Lindgren	3117	1-18 GHz DRG Horn (Medium)	6/4/2025	Biennial	6/4/2027	125518
Rohde & Schwarz	TC-TA18	Cross Polarized Vivaldi Test Antenna	4/15/2024	Biennial	4/15/2026	101058
Sunol	JB5	Bi-Log Antenna (30M - 5GHz)	9/11/2024	Biennial	9/11/2026	A051107
Sunol	JB6	Bi-Log Antenna (30M - 6GHz)	3/24/2025	Biennial	3/24/2027	A082816
Keysight Technologies	N9030A	PXA Signal Analyzer (44GHz)	6/6/2025	Annual	6/6/2026	MY52350166
Keysight Technologies	N9020A	MXA Signal Analyzer	5/7/2025	Annual	5/7/2026	US46470561
Keysight Technologies	N9020A	MXA Signal Analyzer	6/4/2025	Annual	6/4/2026	MY54500644
EMCO	3116	Horn Antenna (18-40GHz)	7/5/2024	Biennial	7/5/2026	9203-2178
Sunol Sciences	DRH-118	Horn Antenna (1-18GHz)	3/19/2025	Biennial	3/19/2027	A102416-2
Anritsu	MA24408A	Microwave Peak Power Sensor	5/30/2025	Annual	5/30/2026	11675
Anritsu	MA24406A	Microwave Peak Power Sensor	5/30/2025	Annual	5/30/2026	11240

Table 6-1. Annual Test Equipment Calibration Schedule

Note:

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

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

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

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

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

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

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

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

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

Component	Serial Number
MegaPhase Cable TM40-K1K1-30	20233002-004
UTIPLEX Cable	64639 232063-001
Rohde & Schwarz Pre-amp RS-PR1840 18G-40G	9037.7670.02

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

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7.0 TEST RESULTS

7.1 Summary

Company Name: Microsoft Corporation

FCC ID: C3K2076

IC: 3048A-2076

FCC Classification: Digital Transmission System (DTS)

FCC Part Section(s)	RSS Section(s)	Test Description	Test Limit	Test Condition	Test Result	Reference
15.247(a)(2)	RSS-247 [6.3.1(a)]	6dB Bandwidth	The minimum 6 dB bandwidth shall be at least 500 kHz.	CONDUCTED	PASS	Section 7.2
15.247(b)(3)	RSS-247 [6.3.2]	Transmitter Output Power	shall not exceed 1 W		PASS	Section 7.3
N/A	RSS-247 [6.3.2]	e.i.r.p	Shall not exceed 4 W		PASS	Section 7.3
15.247(e)	RSS-247 [6.3.1(b)]	Transmitter Power Spectral Density	shall not be greater than 8 dBm in any 3 kHz band		PASS	Section 7.4
15.247(d)	RSS-247 [6.6]	Band Edge / Out-of-Band Emissions	≥ 20dBc		PASS	Sections 7.5, 7.6
15.205 15.209	RSS-Gen [8.9]	General Field Strength Limits (Restricted Bands and Radiated Emission Limits)	Emissions in restricted bands must meet the radiated limits detailed in 15.209 (RSS-Gen [8.9])	RADIATED	PASS	Section 7.7

Table 7-1. Summary of Test Results

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Notes:

1) All modes of operation and data rates were investigated. The test results shown in the following sections represent the worst-case emissions.
2) 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 "WLAN Automation," Version 3.5.
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 1.3.1.
6) 802.11be OFDMA testing was performed for all signal tone configurations as specified by the 802.11be standard. Worst case results are determined and reported per the guidance provided at the October 2018 TCB Workshop.
7) Data was referenced from model C3K2086 for the certification of C3K2076. See Section 9.0 for spotcheck results.

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7.2 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 transmitter antenna terminal of the EUT while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates were investigated and the worst-case configuration results are reported in this section.

The minimum 6 dB bandwidth shall be at least 500 kHz.

Test Procedure Used

ANSI C63.10:2020 – Section 11.8.2

Test Settings - 6dB Bandwidth

1. The signal analyzer's automatic bandwidth measurement capability was used to perform the 6dB bandwidth measurement. The "X" dB bandwidth parameter was set to X = 6. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
2. RBW = 100kHz
3. VBW ≥ 3 x RBW
4. Detector = Peak
5. Trace mode = max hold
6. Sweep = auto couple
7. The trace was allowed to stabilize

Test Settings - Occupied Bandwidth

1. The signal analyzer's automatic bandwidth measurement capability was used to perform the 99% occupied bandwidth. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
2. RBW = 1 – 5% of the expected OBW
3. VBW ≥ 3 x RBW
4. Detector = Peak
5. Trace mode = max hold
6. Sweep = auto couple
7. The trace was allowed to stabilize
8. If necessary, steps 2 – 7 were repeated after changing the RBW such that it would be within 1 – 5% of the 99% occupied bandwidth observed in Step 7

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Test Setup

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

Figure 7-1. Test Instrument & Measurement Setup

Test Notes

1. Based on preliminary measurements, it was determined that, of all the tone configurations, the 26T configuration produced the worst case 6dB Bandwidth measurement. Only the worst-case data is included in this section.

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

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6dB Bandwidth Measurements

Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Antenna-1 6dB Bandwidth	Antenna-2 6dB Bandwidth	Minimum Bandwidth [MHz]
2412	1	be	26T	MCS0	2.12	2.09	0.500
2437	6	be	26T	MCS0	2.77	2.70	0.500
2462	11	be	26T	MCS0	2.14	2.10	0.500
2412	1	be	242T	MCS0	19.09	19.05	0.500
2437	6	be	242T	MCS0	19.07	19.03	0.500
2462	11	be	242T	MCS0	18.94	19.09	0.500
2422	3	be	484T	MCS0	38.12	38.05	0.500
2437	6	be	484T	MCS0	38.21	38.07	0.500
2462	11	be	484T	MCS0	38.06	38.31	0.500

Table 7-2. Conducted 6dB Bandwidth Measurements MIMO

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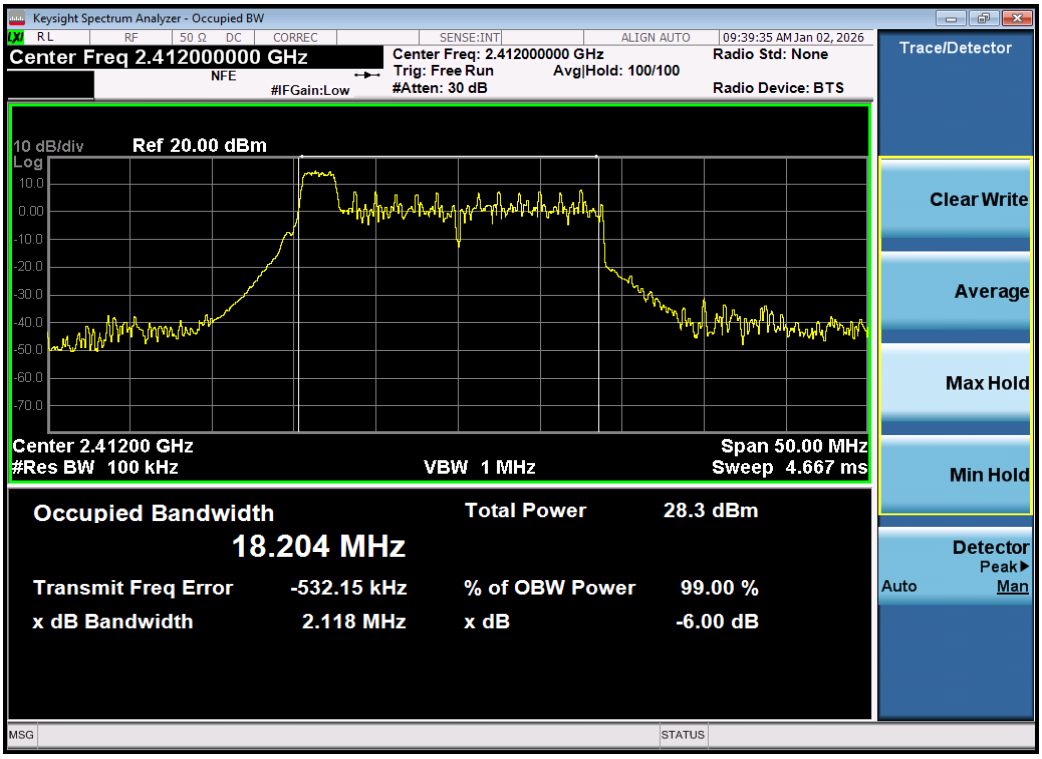
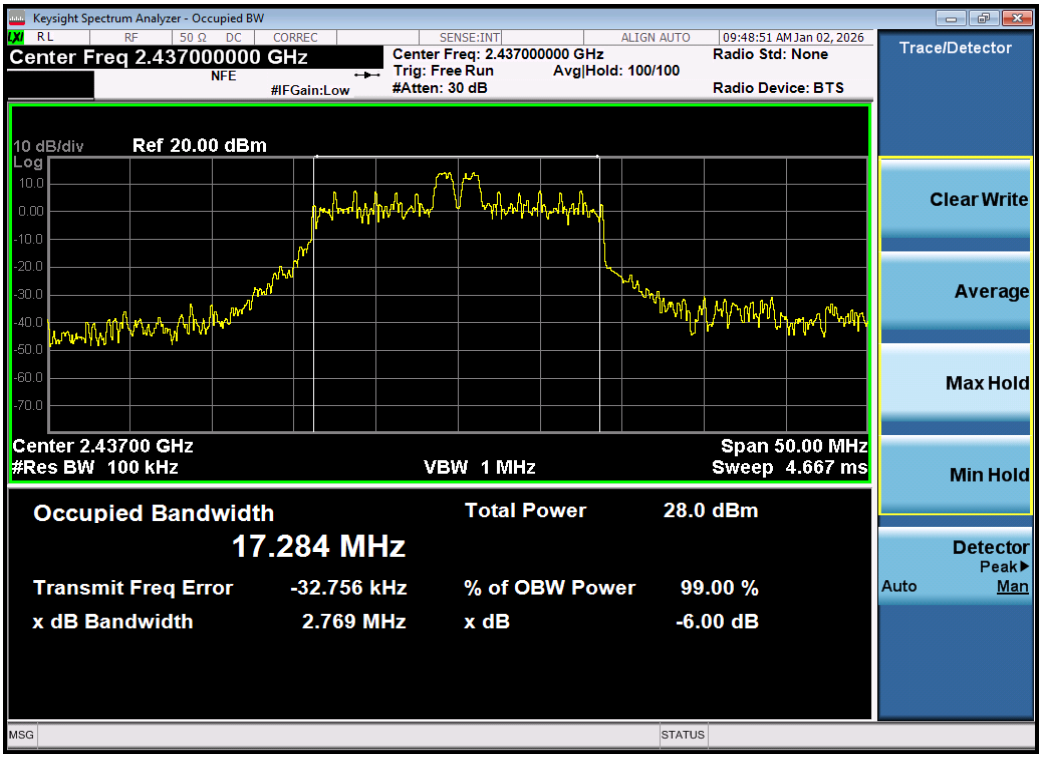
7.2.1 MIMO Antenna-1 6dB Bandwidth Measurements



Plot 7-1. 6dB Bandwidth Plot MIMO ANT1 (802.11be OFDMA – 26 Tones – Ch. 1) – DUAL ANT 1



Plot 7-2. 6dB Bandwidth Plot MIMO ANT1 (802.11be OFDMA – 26 Tones – Ch. 6) – DUAL ANT 1

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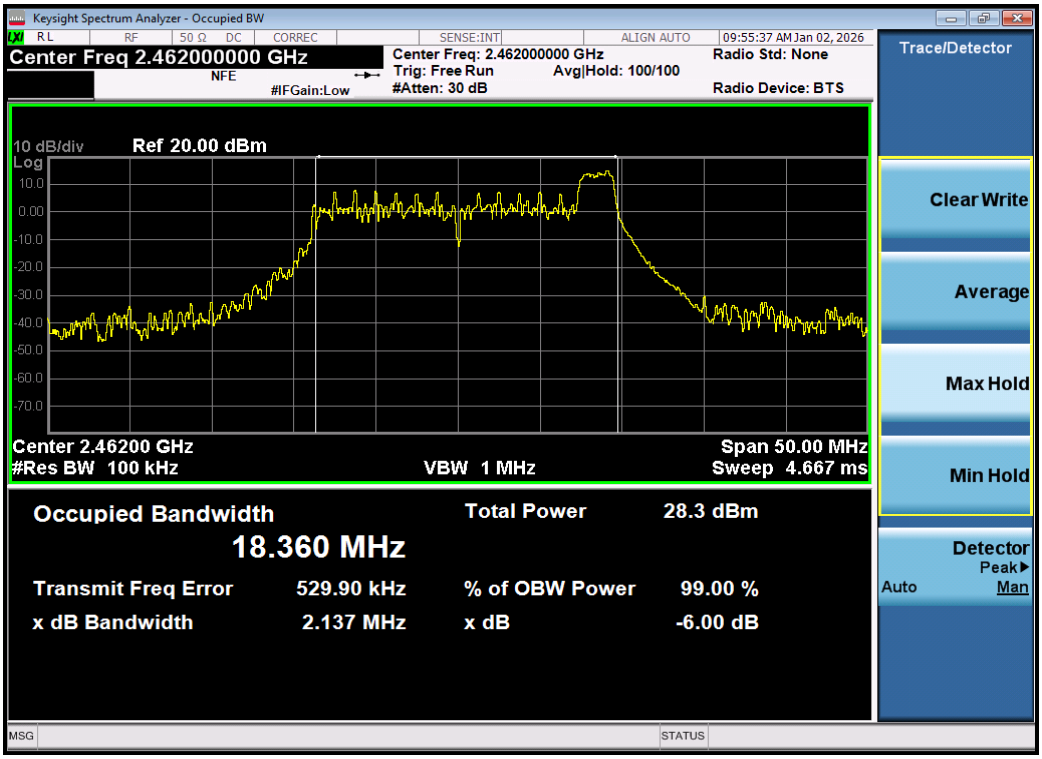
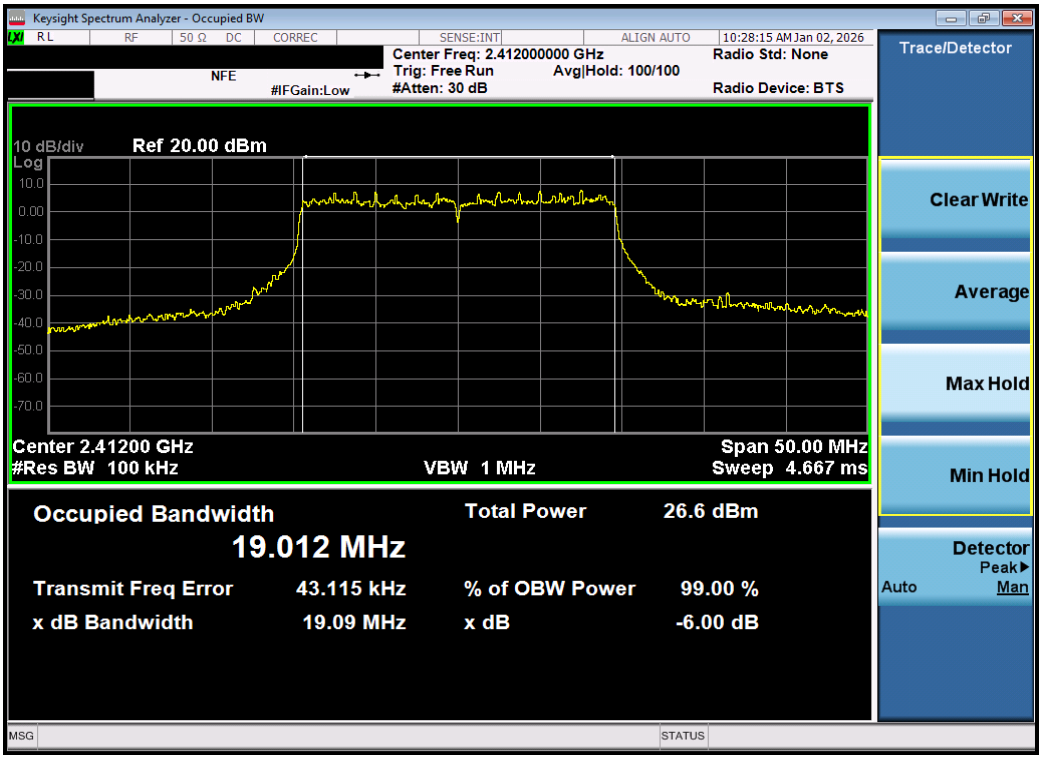


Plot 7-3. 6dB Bandwidth Plot MIMO ANT1 (802.11be OFDMA – 26 Tones – Ch. 11) – DUAL ANT 1



Plot 7-4. 6dB Bandwidth Plot MIMO ANT1 (802.11be OFDMA – 242 Tones – Ch. 1) – DUAL ANT 1

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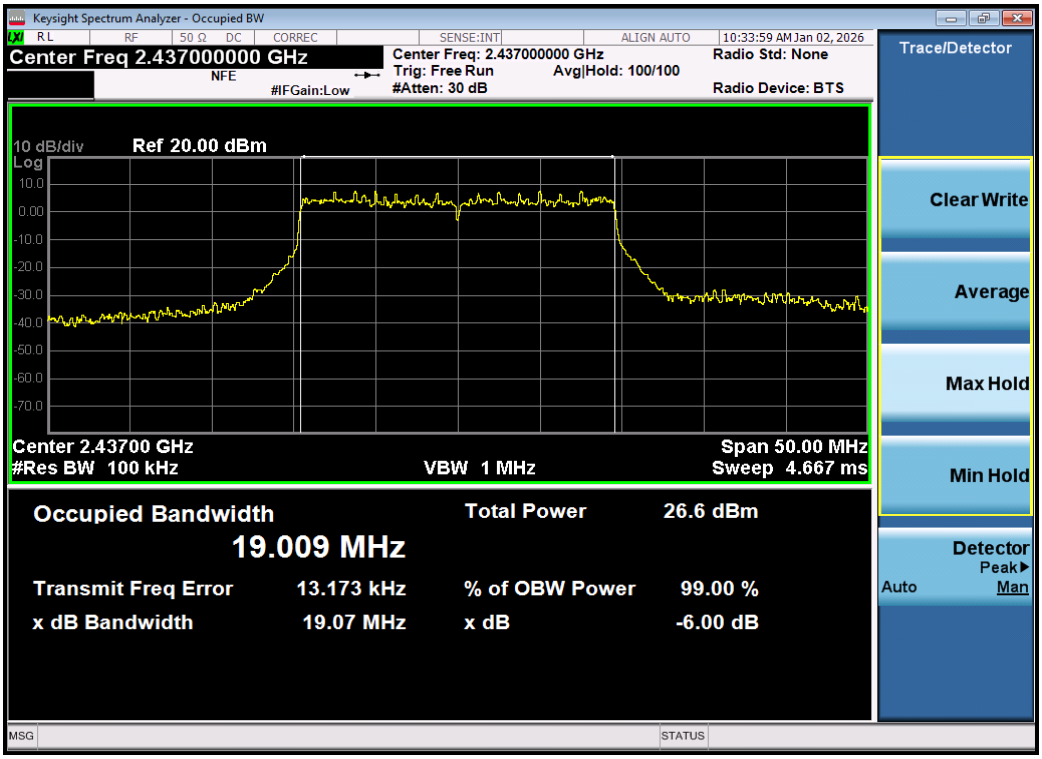
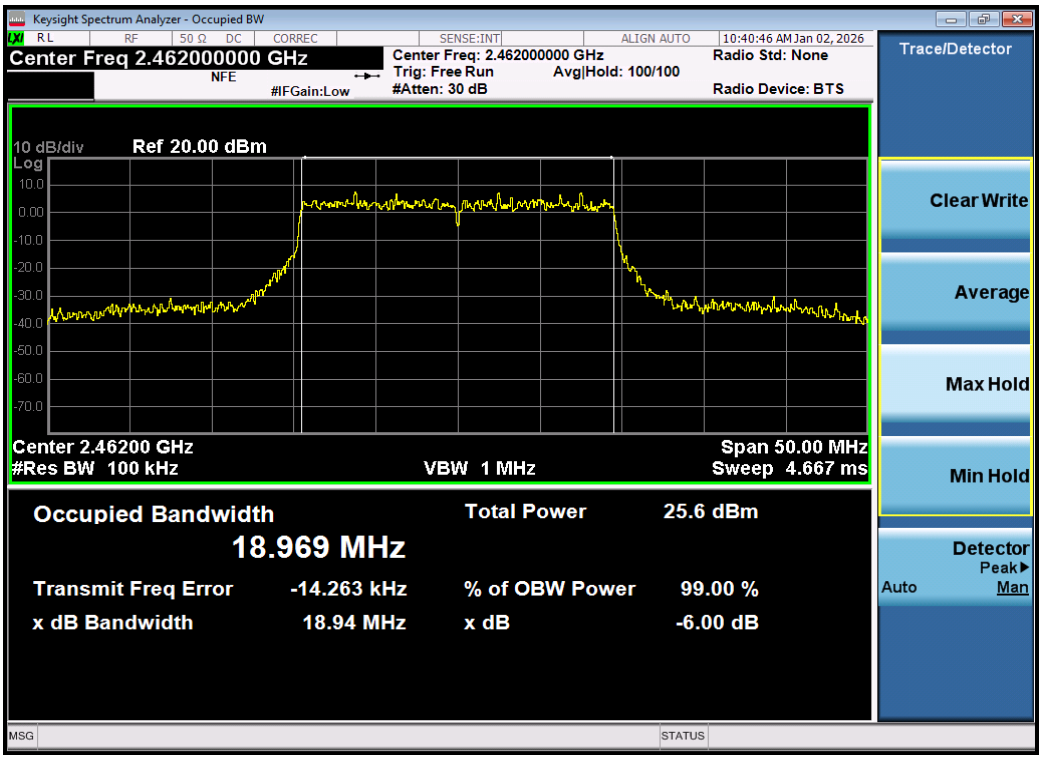


Plot 7-5. 6dB Bandwidth Plot MIMO ANT1 (802.11be OFDMA – 242 Tones – Ch. 6) – DUAL ANT 1



Plot 7-6. 6dB Bandwidth Plot MIMO ANT1 (802.11be OFDMA – 242 Tones – Ch. 11) – DUAL ANT 1

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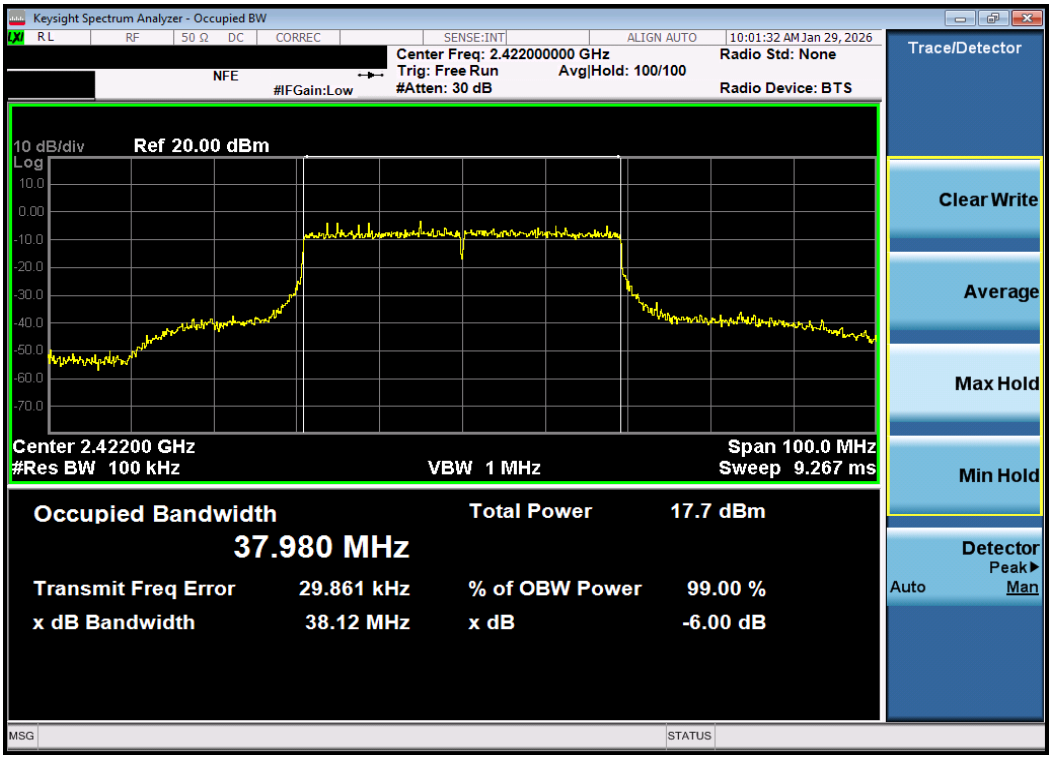
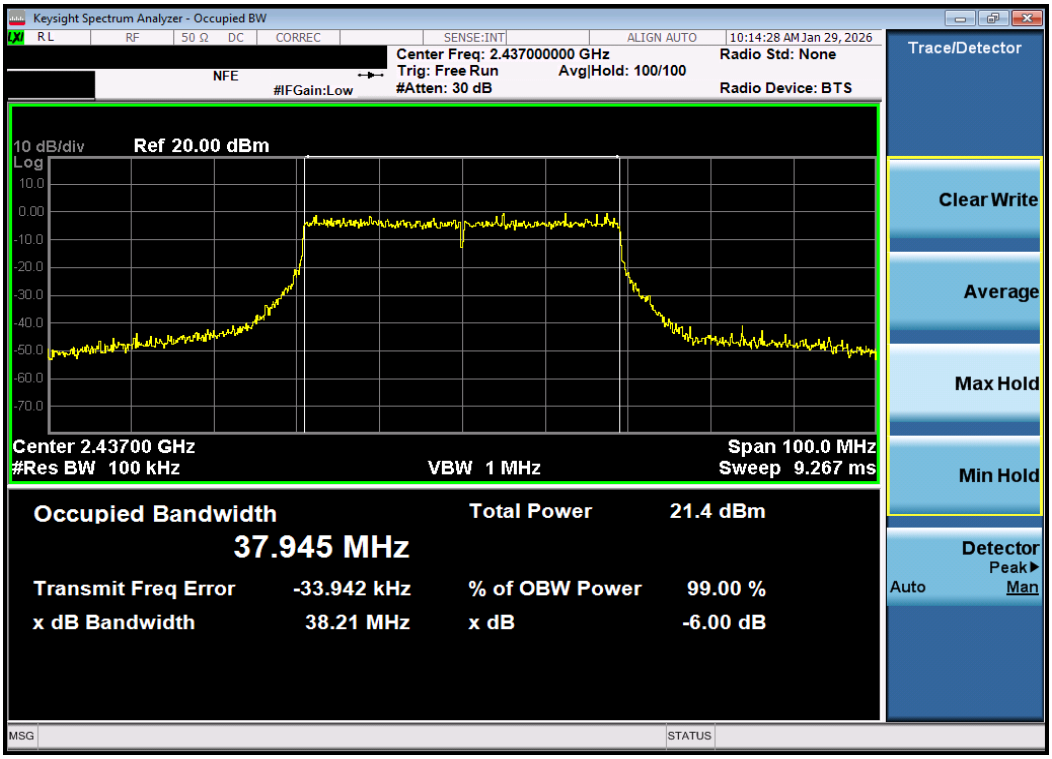


Plot 7-7. 6dB Bandwidth Plot MIMO ANT1 (802.11be OFDMA – 484 Tones – Ch. 3) – DUAL ANT 1



Plot 7-8. 6dB Bandwidth Plot MIMO ANT1 (802.11be OFDMA – 484 Tones – Ch. 6) – DUAL ANT 1

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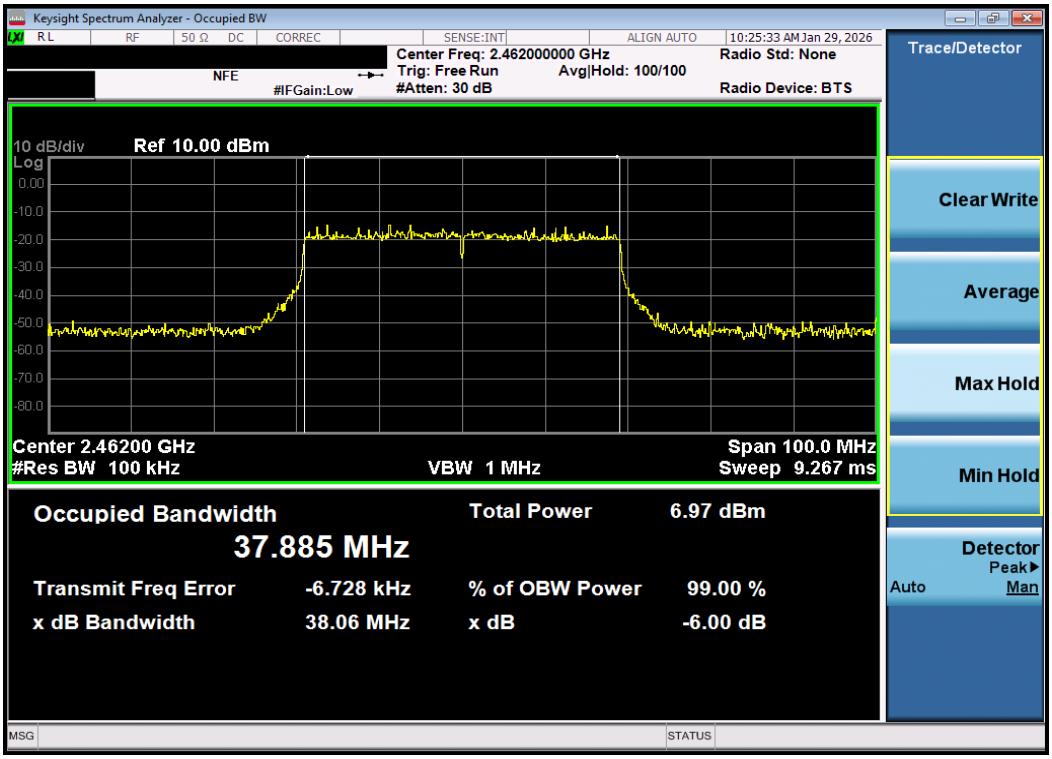

Plot 7-9. 6dB Bandwidth Plot MIMO ANT1 (802.11be OFDMA – 484 Tones – Ch. 11) – DUAL ANT 1

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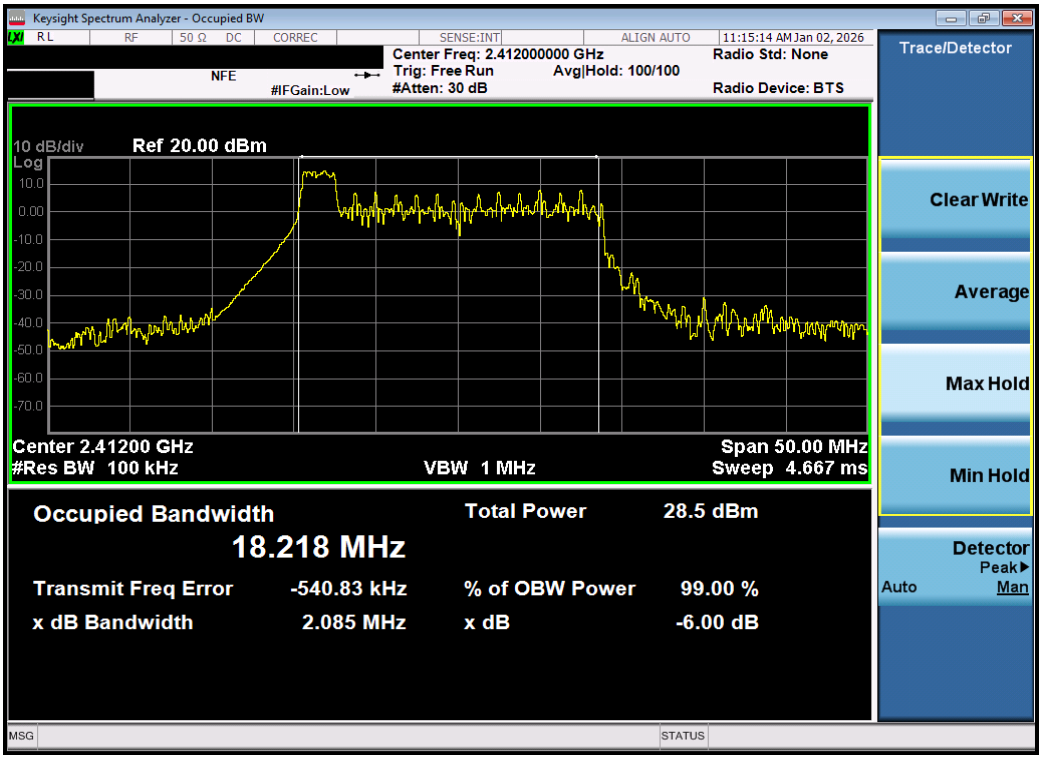
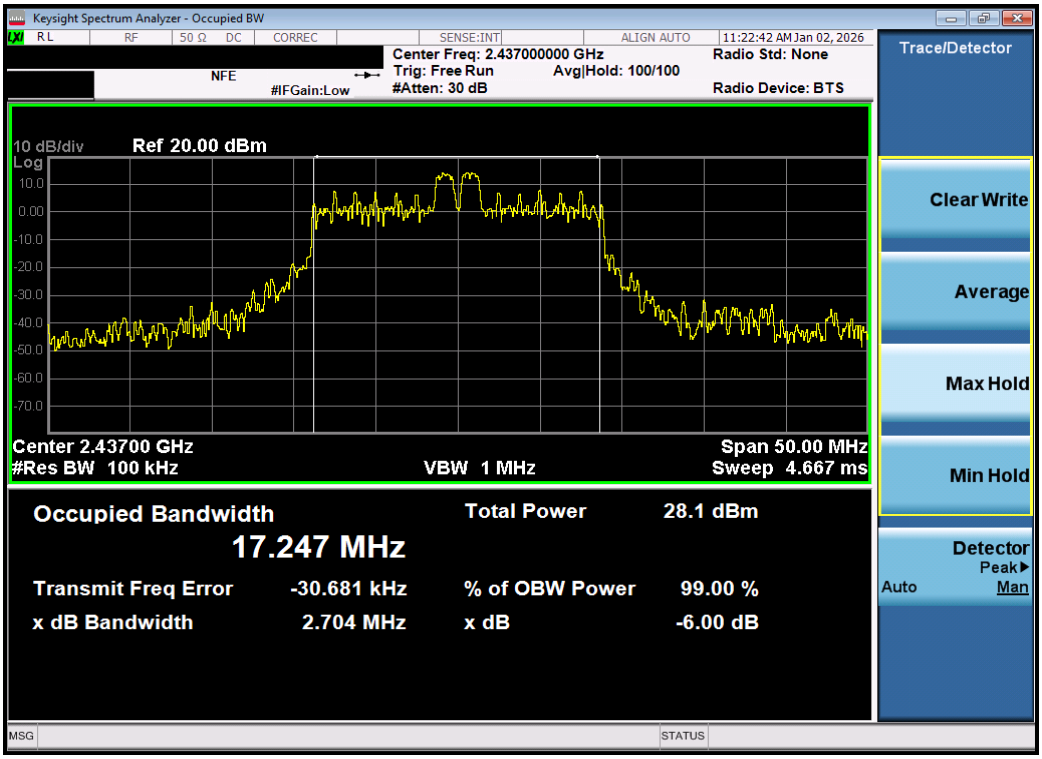
7.2.2 MIMO Antenna-2 6 dB Bandwidth Measurements



Plot 7-10. 6dB Bandwidth Plot MIMO ANT2 (802.11be OFDMA – 26 Tones – Ch. 1) – DUAL ANT 2



Plot 7-11. 6dB Bandwidth Plot MIMO ANT2 (802.11be OFDMA – 26 Tones – Ch. 6) – DUAL ANT 2

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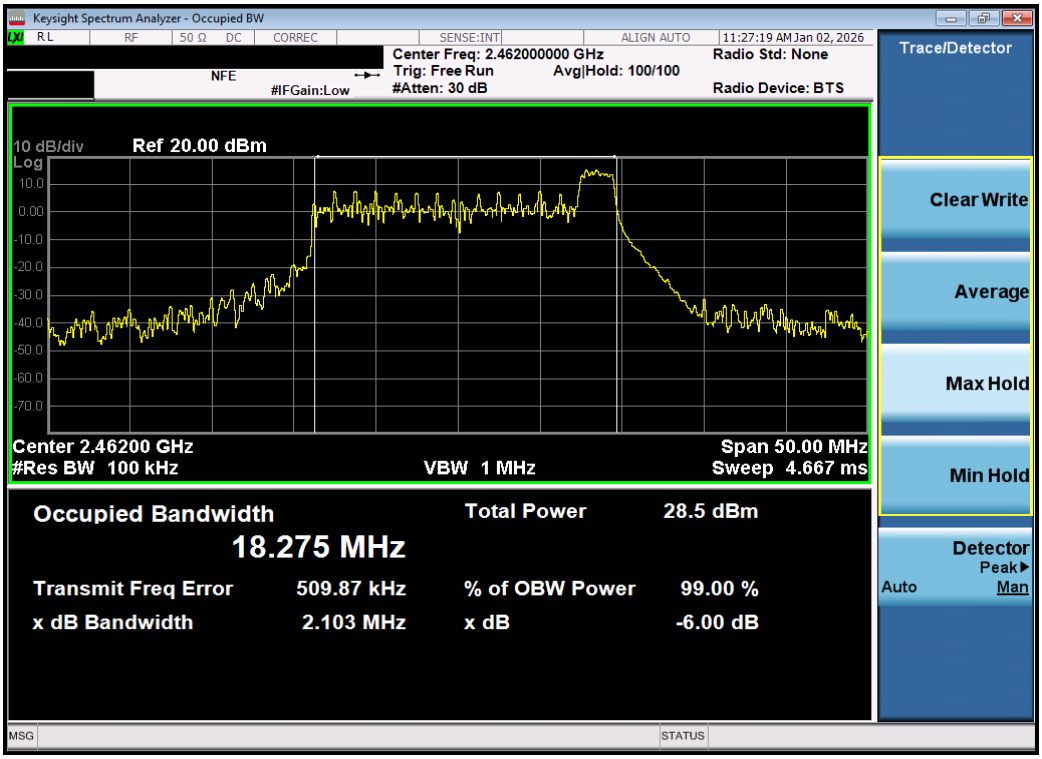
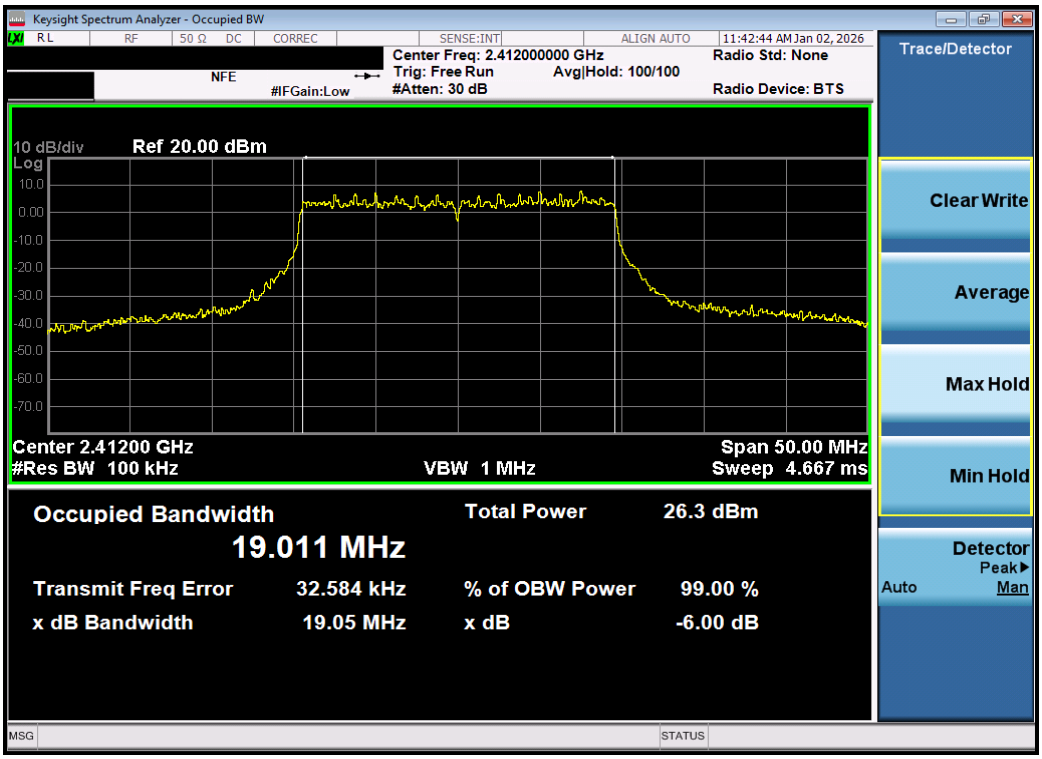


Plot 7-12. 6dB Bandwidth Plot MIMO ANT2 (802.11be OFDMA – 26 Tones – Ch. 11) – DUAL ANT 2



Plot 7-13. 6dB Bandwidth Plot MIMO ANT2 (802.11be OFDMA – 242 Tones – Ch. 1) – DUAL ANT 2

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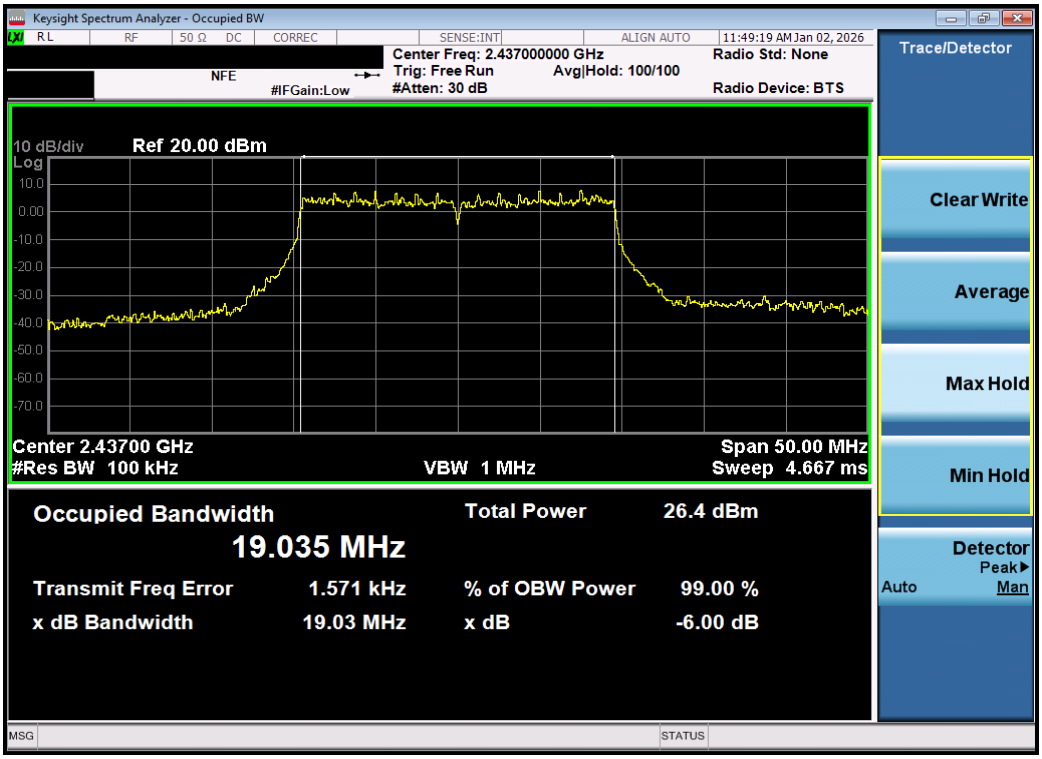
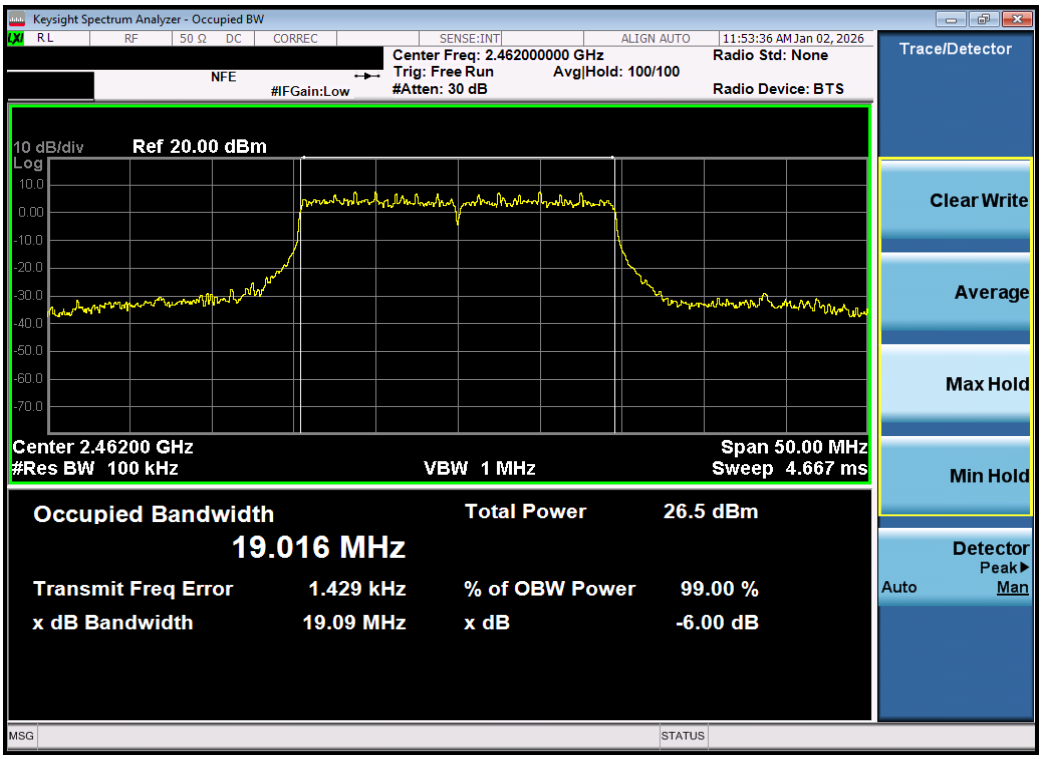


Plot 7-14. 6dB Bandwidth Plot MIMO ANT2 (802.11be OFDMA – 242 Tones – Ch. 6) – DUAL ANT 2



Plot 7-15. 6dB Bandwidth Plot MIMO ANT2 (802.11be OFDMA – 242 Tones – Ch. 11) – DUAL ANT 2

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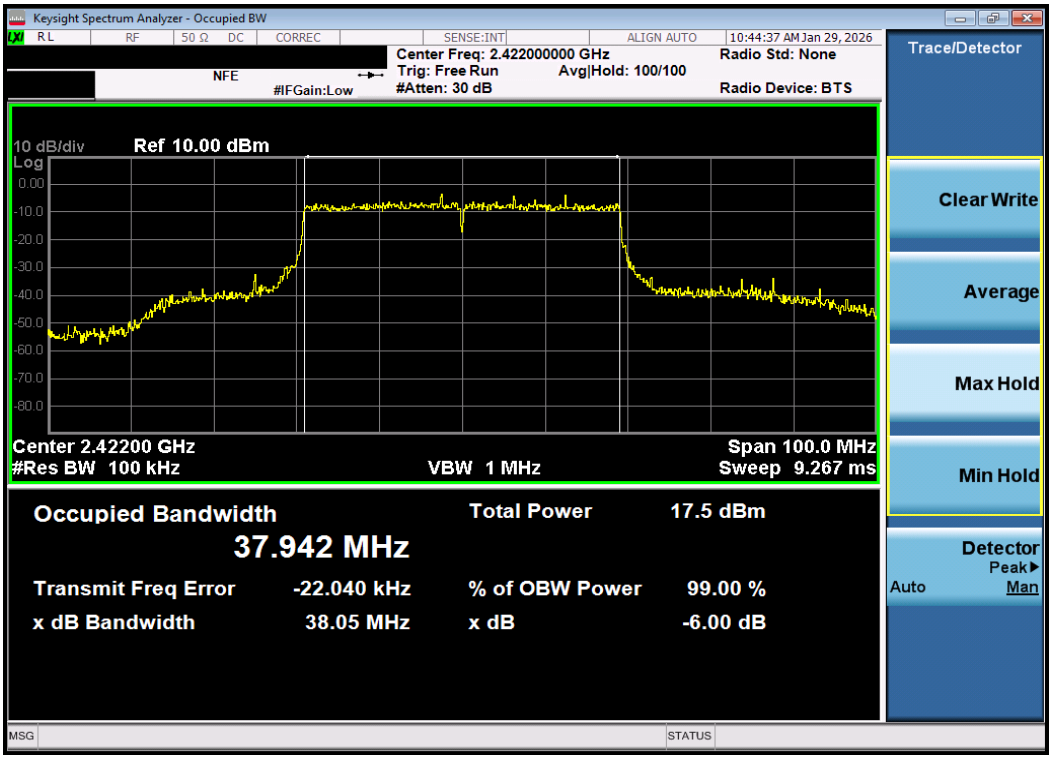
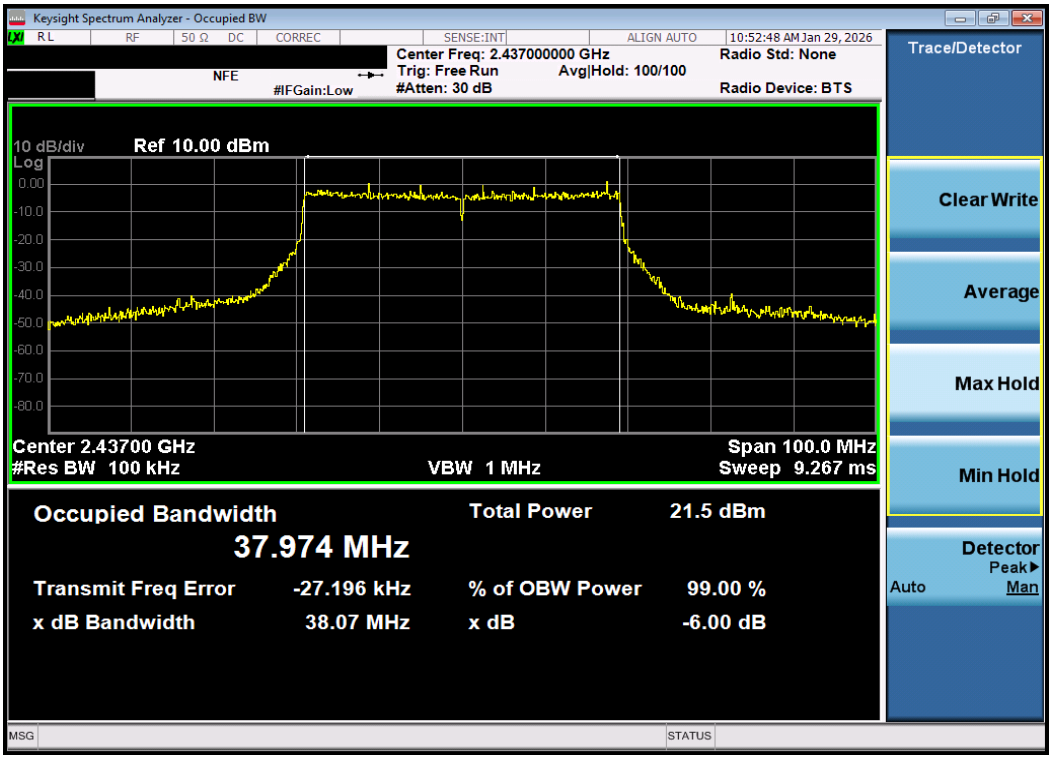


Plot 7-16. 6dB Bandwidth Plot MIMO ANT2 (802.11be OFDMA – 484 Tones – Ch. 3) – DUAL ANT 2



Plot 7-17. 6dB Bandwidth Plot MIMO ANT2 (802.11be OFDMA – 484 Tones – Ch. 6) – DUAL ANT 2

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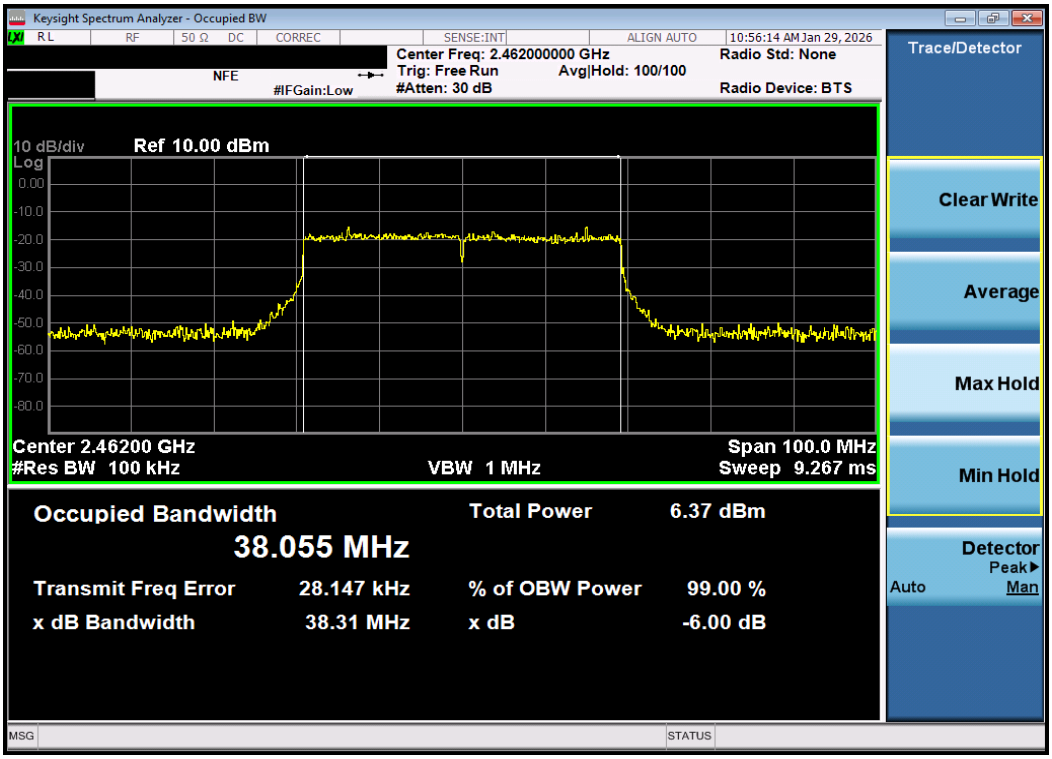

Plot 7-18. 6dB Bandwidth Plot MIMO ANT2 (802.11be OFDMA – 484 Tones – Ch. 11) – DUAL ANT 2

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OBW Measurements

Frequency [MHz]	Channel	802.11 MODE	Tones	Antenna-1 OBW [MHz]	Antenna-2 OBW [MHz]
2412	1	ax (20MHz)	26T	18.85	18.80
2437	6	ax (20MHz)	26T	18.82	18.79
2462	11	ax (20MHz)	26T	18.80	18.73
2412	1	ax (20MHz)	242T	19.36	19.23
2437	6	ax (20MHz)	242T	19.26	19.26
2462	11	ax (20MHz)	242T	19.31	19.16

Table 7-3. Conducted OBW Measurements MIMO

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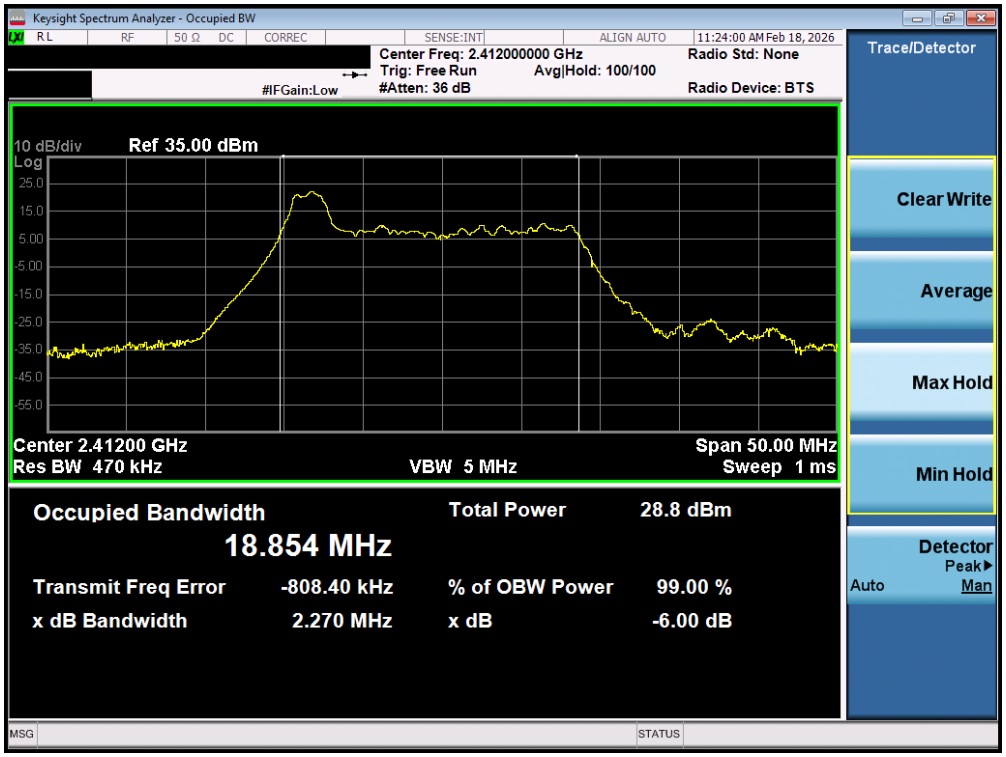
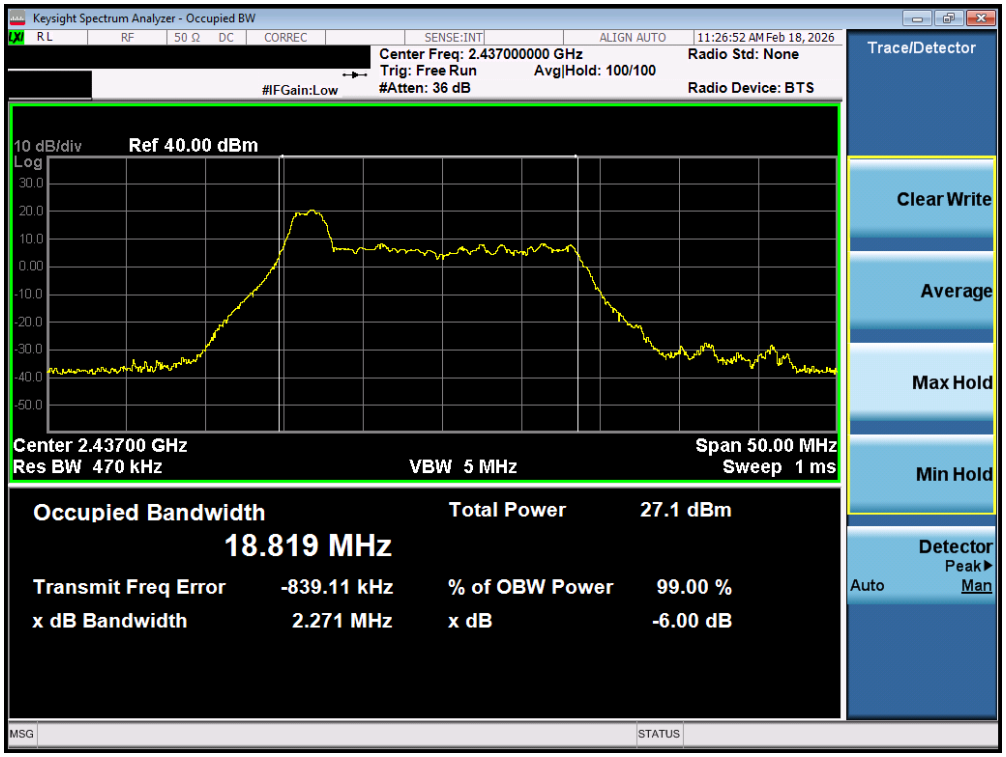
7.2.3 MIMO OBW Measurements



Plot 7-19. OBW Plot MIMO ANT1 (802.11ax OFDMA – 26 Tones – Ch. 1)



Plot 7-20. OBW Plot MIMO ANT1 (802.11ax OFDMA – 26 Tones – Ch. 6)

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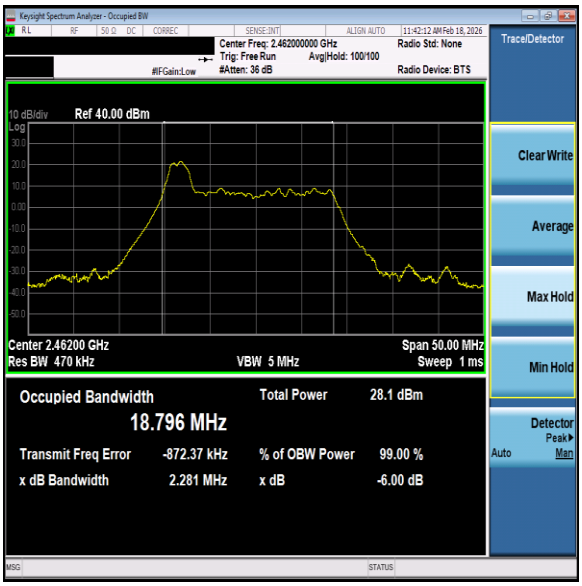
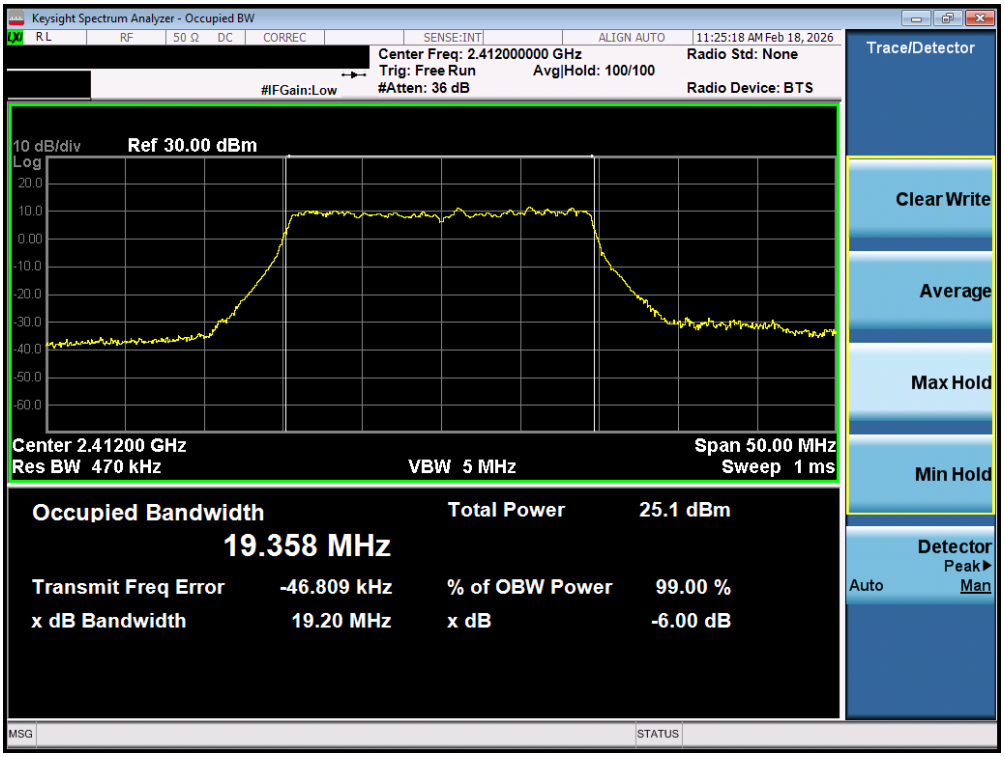


Plot 7-21. OBW Plot MIMO ANT1 (802.11ax OFDMA – 26 Tones – Ch. 11)



Plot 7-22. OBW Plot MIMO ANT1 (802.11ax OFDMA – 242 Tones – Ch. 1)

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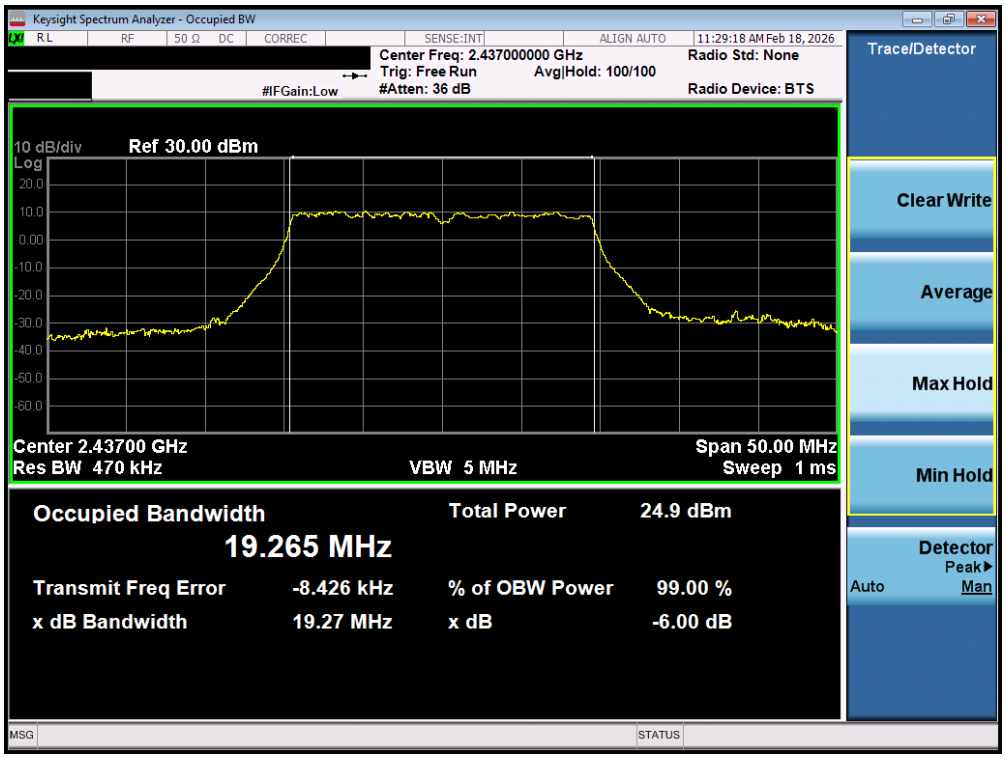
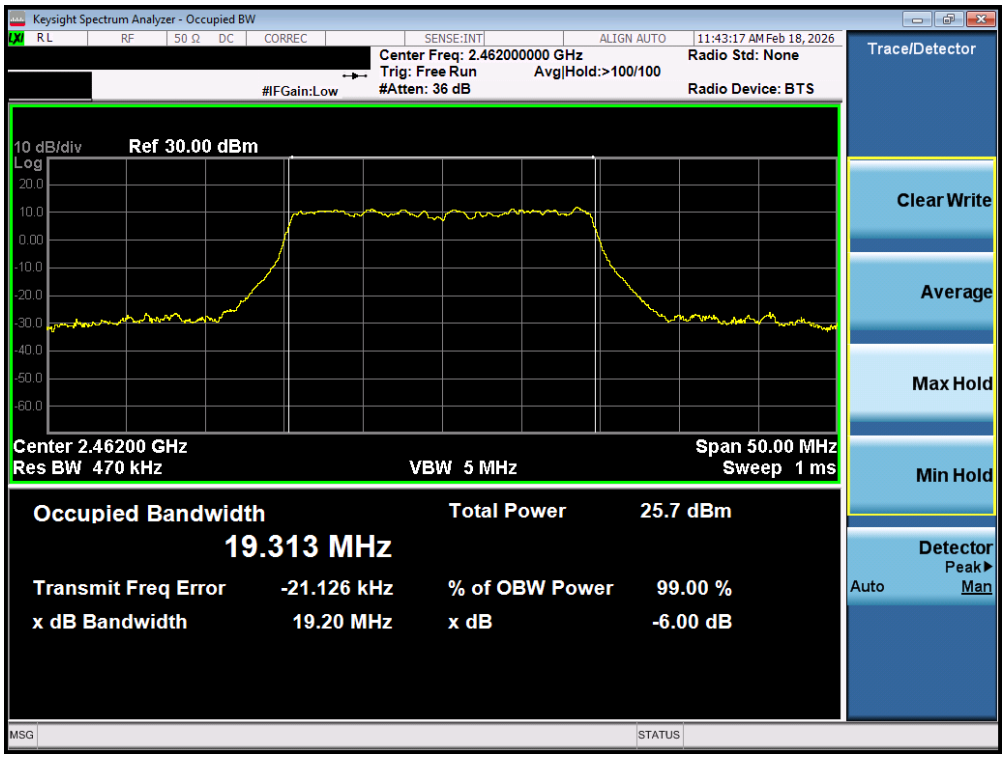


Plot 7-23. OBW Plot MIMO ANT1 (802.11ax OFDMA – 242 Tones – Ch. 6)



Plot 7-24. OBW Plot MIMO ANT1 (802.11ax OFDMA – 242 Tones – Ch. 11)

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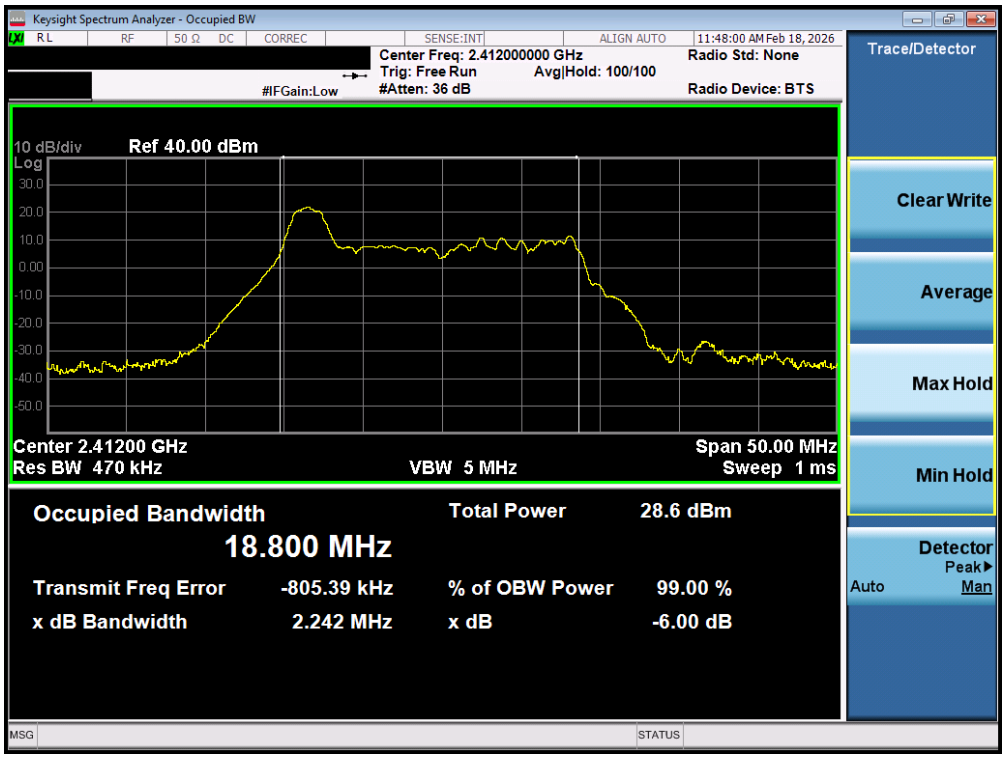
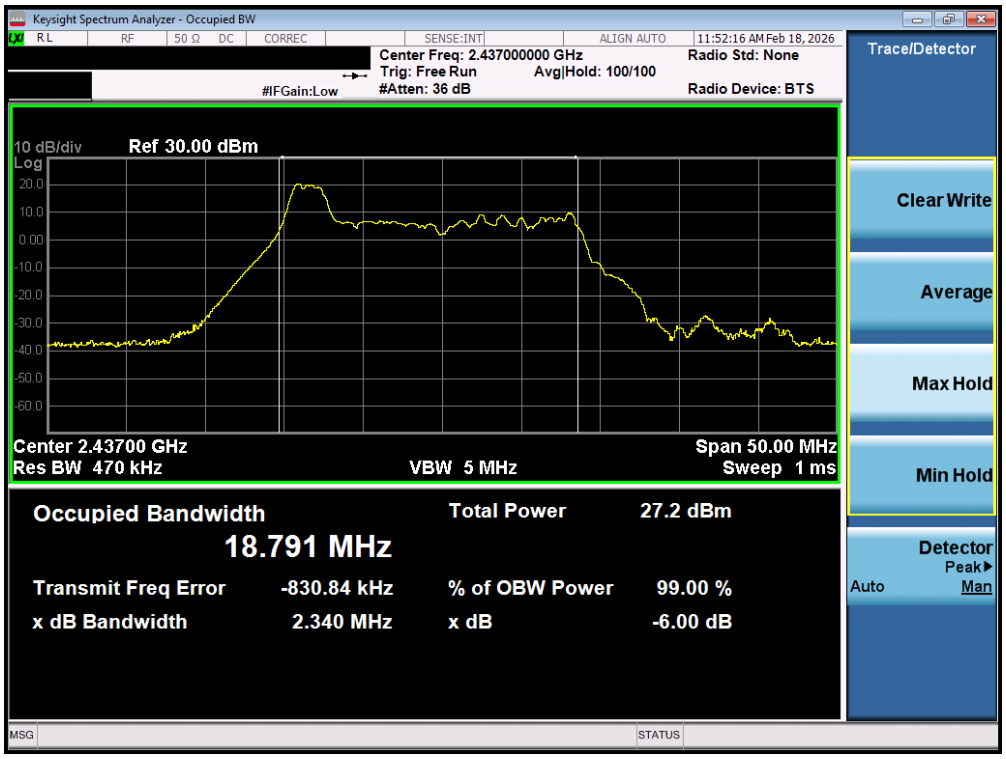


Plot 7-25. OBW Plot MIMO ANT2 (802.11ax OFDMA – 26 Tones – Ch. 1)



Plot 7-26. OBW Plot MIMO ANT2 (802.11ax OFDMA – 26 Tones – Ch. 6)

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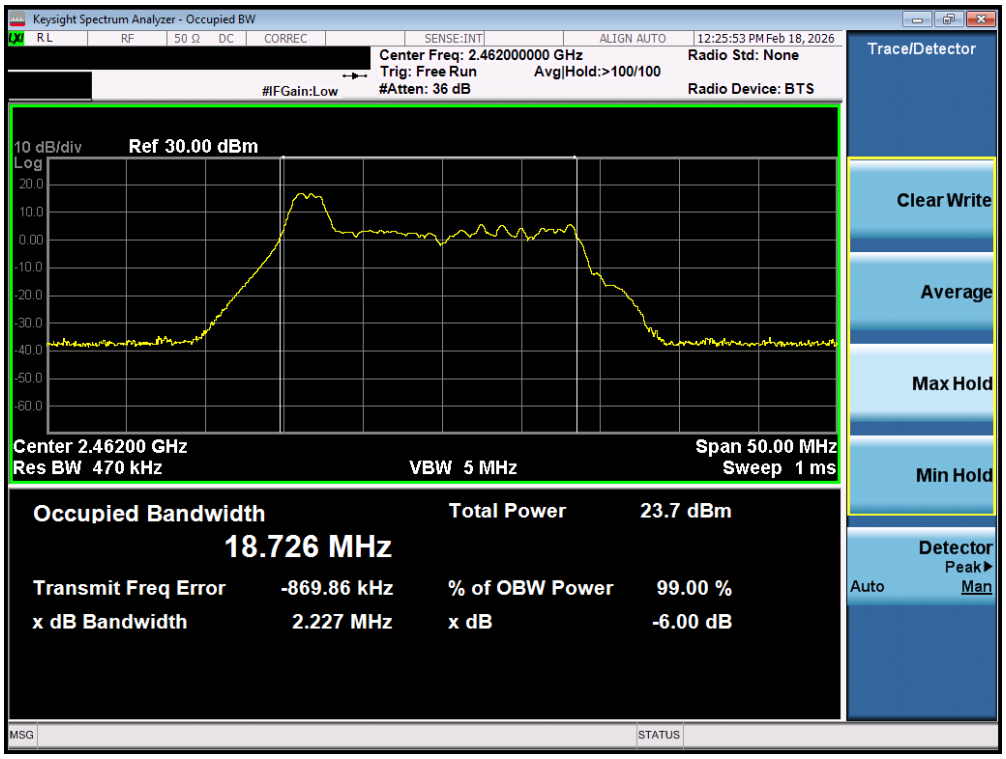
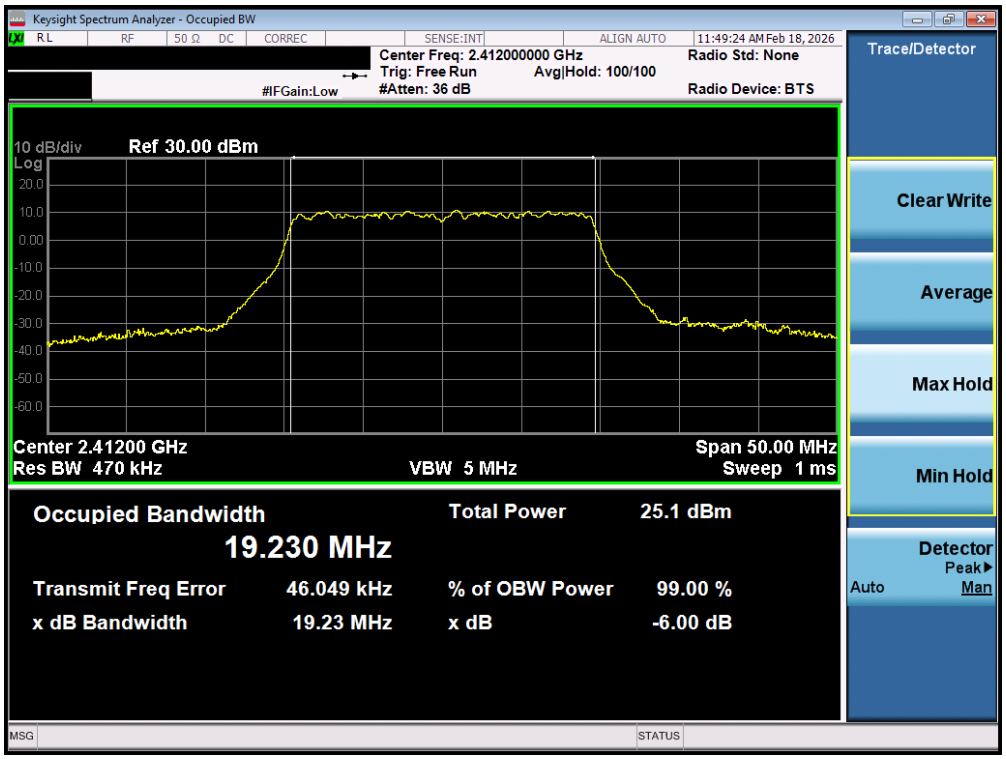


Plot 7-27. OBW Plot MIMO ANT2 (802.11ax OFDMA – 26 Tones – Ch. 11)



Plot 7-28. OBW Plot MIMO ANT2 (802.11ax OFDMA – 242 Tones – Ch. 1)

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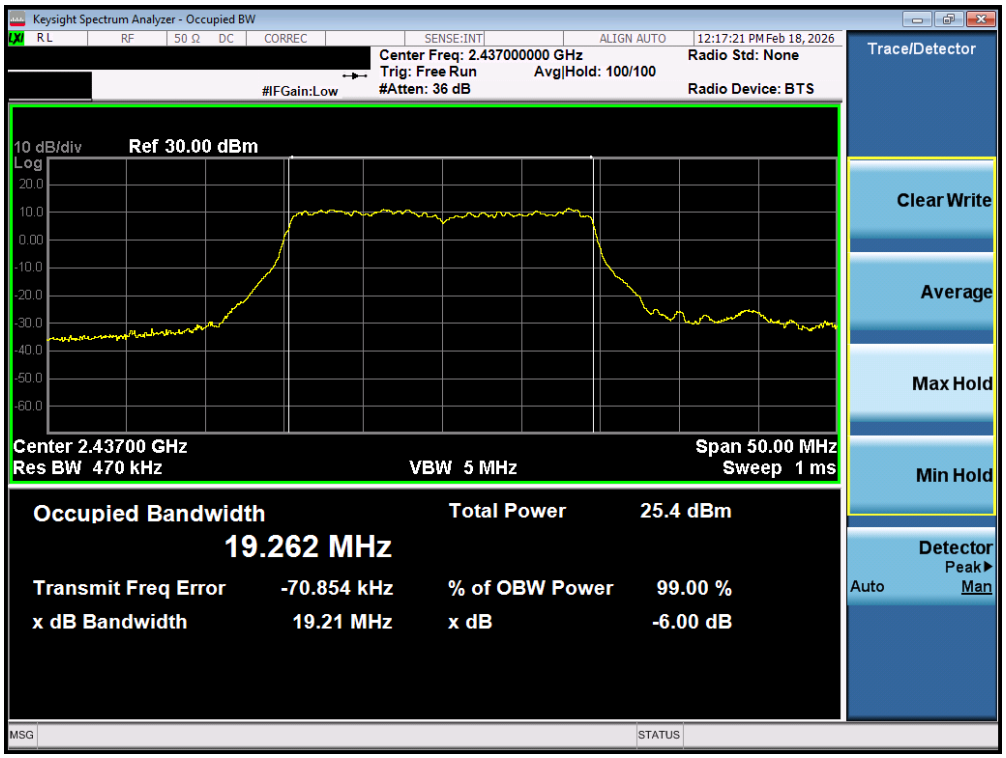
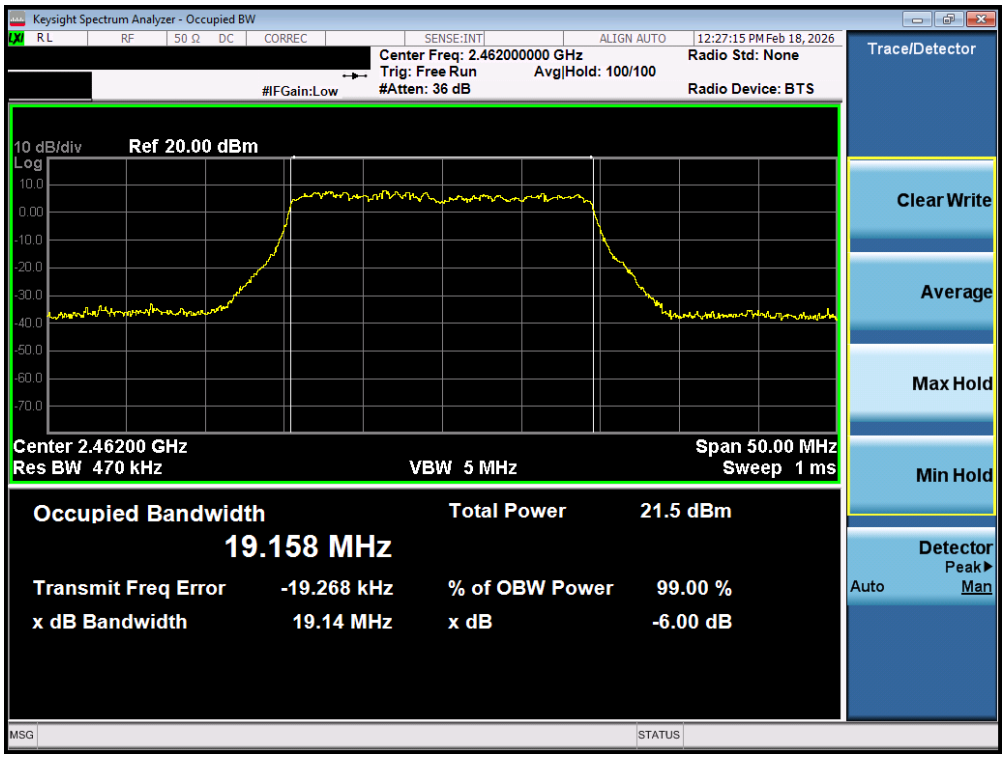


Plot 7-29. OBW Plot MIMO ANT2 (802.11ax OFDMA – 242 Tones – Ch. 6)



Plot 7-30. OBW Plot MIMO ANT2 (802.11ax OFDMA – 242 Tones – Ch. 11)

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OBW Measurements - MRU

Frequency [MHz]	Channel	802.11 MODE	MRU Configuration	Antenna-1 OBW [MHz]	Antenna-2 OBW [MHz]
2412	1	be (20MHz)	52+26T	17.35	17.23
2437	6	be (20MHz)	52+26T	17.34	17.26
2462	11	be (20MHz)	52+26T	17.31	17.19
2412	1	be (20MHz)	106+26T	18.43	18.44
2437	6	be (20MHz)	106+26T	18.66	18.41
2462	11	be (20MHz)	106+26T	18.35	18.33

Table 7-4. Conducted OBW Measurements MIMO

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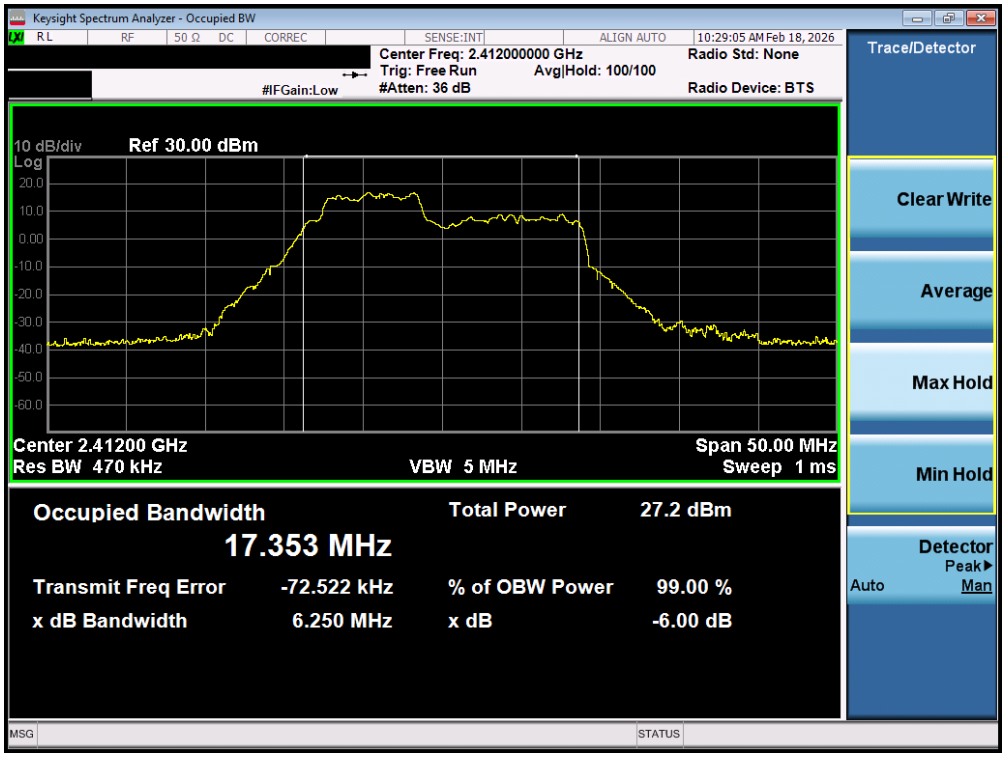
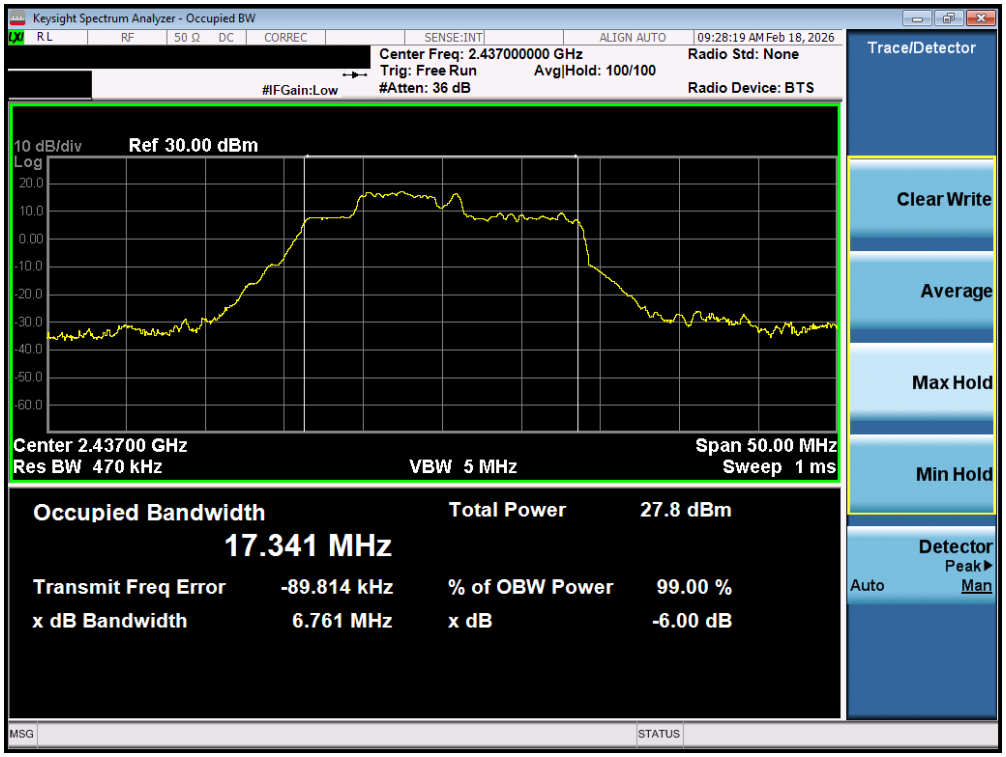
7.2.4 MIMO OBW Measurements - MRU



Plot 7-31. OBW Plot MIMO ANT1 (802.11ax OFDMA – 52 + 26 Tones – Ch. 1)



Plot 7-32. OBW Plot MIMO ANT1 (802.11ax OFDMA – 52 + 26 Tones – Ch. 6)

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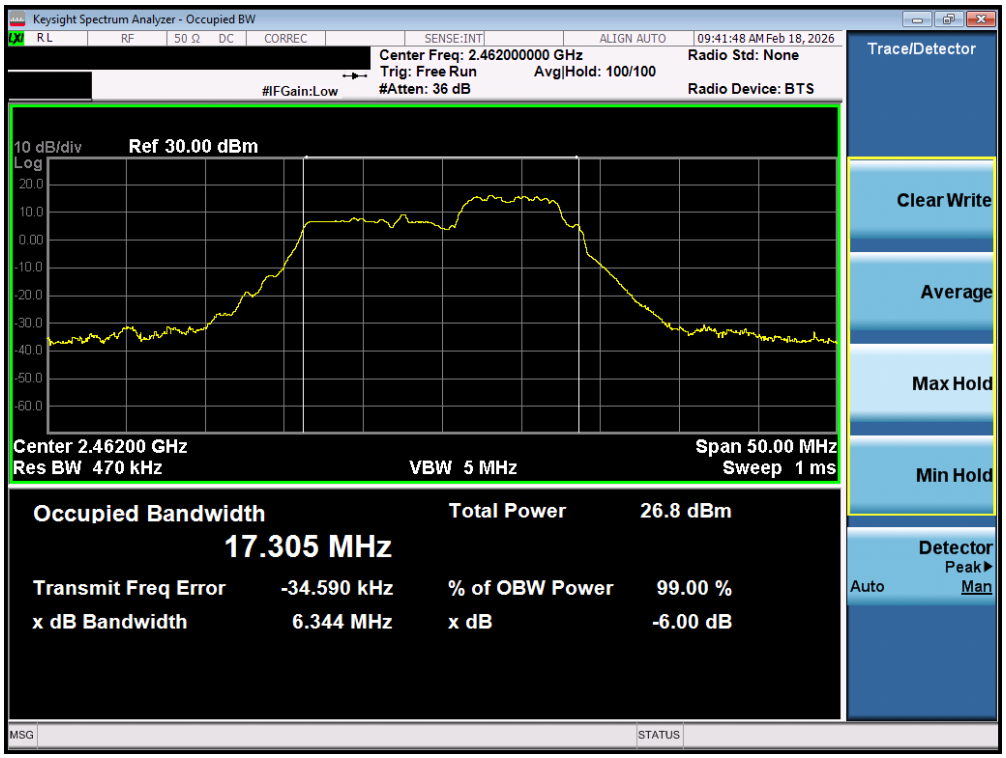
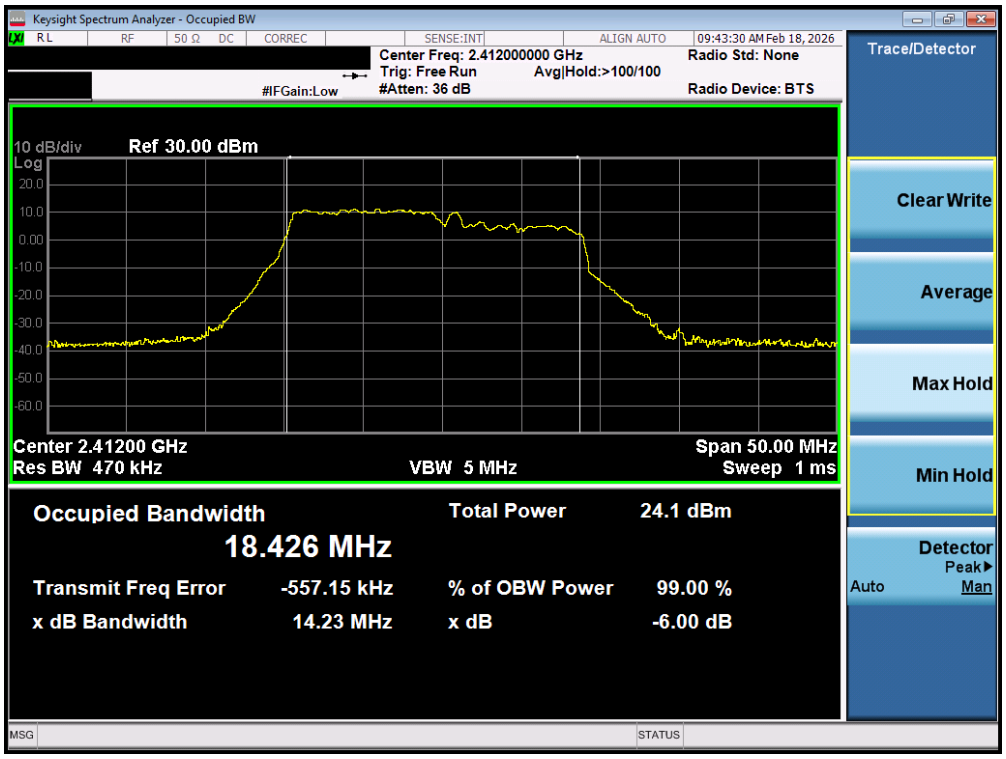


Plot 7-33. OBW Plot MIMO ANT1 (802.11ax OFDMA – 52 + 26 Tones – Ch. 11)



Plot 7-34. OBW Plot MIMO ANT1 (802.11ax OFDMA – 106 + 26 Tones – Ch. 1)

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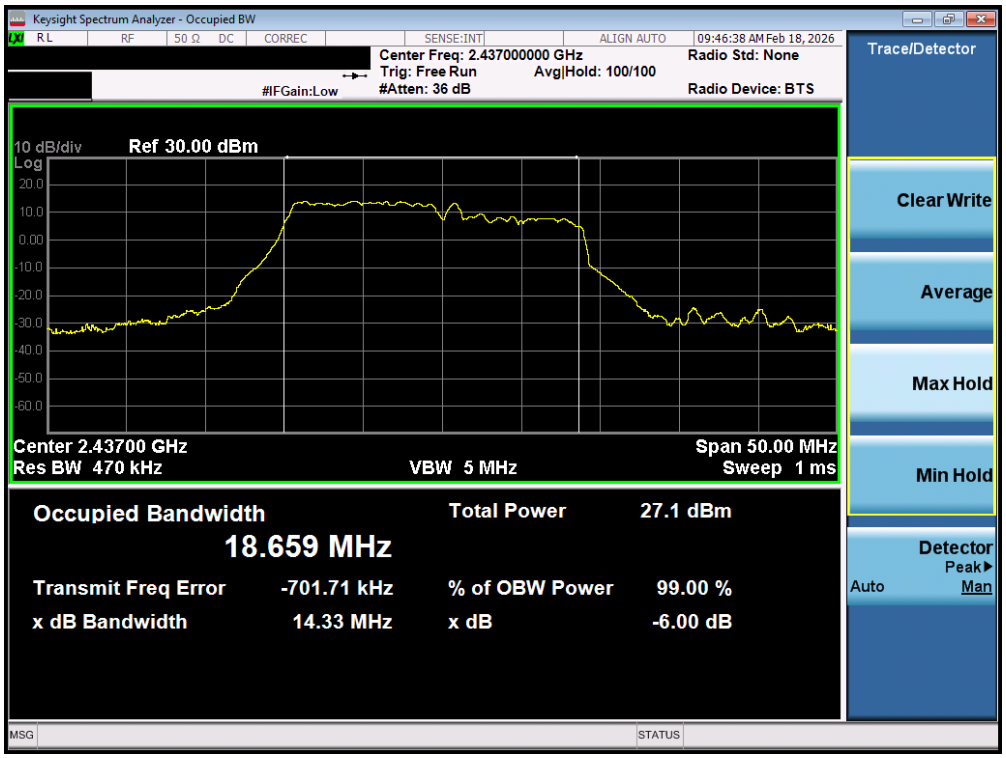
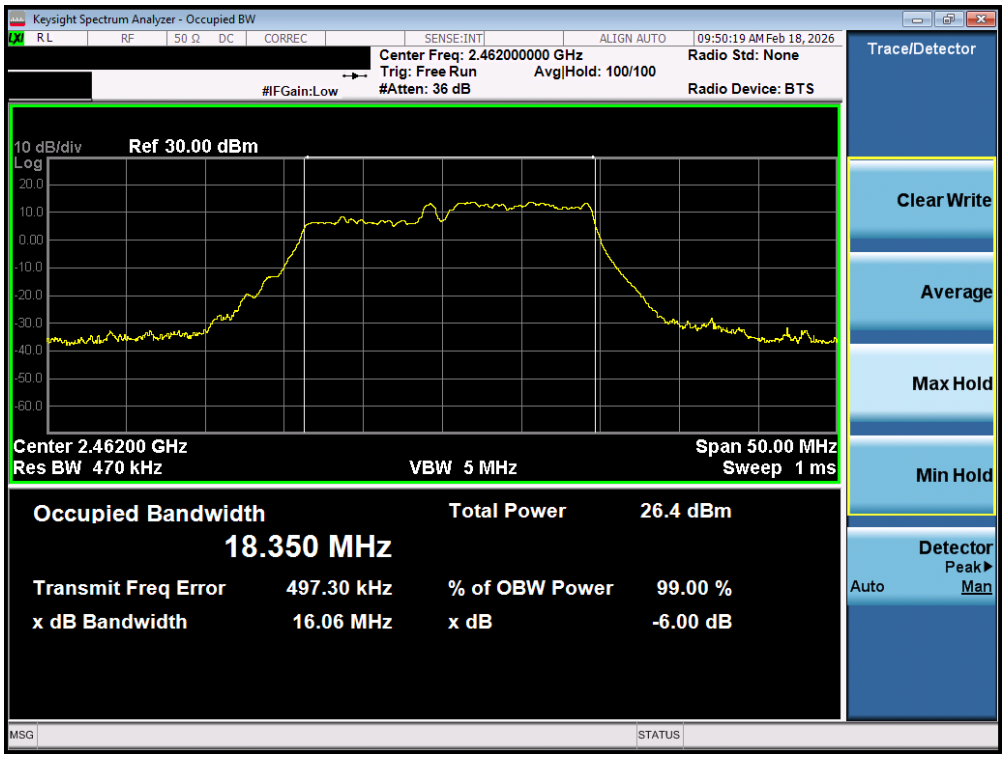


Plot 7-35. OBW Plot MIMO ANT1 (802.11ax OFDMA – 106 + 26 Tones – Ch. 6)



Plot 7-36. OBW Plot MIMO ANT1 (802.11ax OFDMA – 106 + 26 Tones – Ch. 11)

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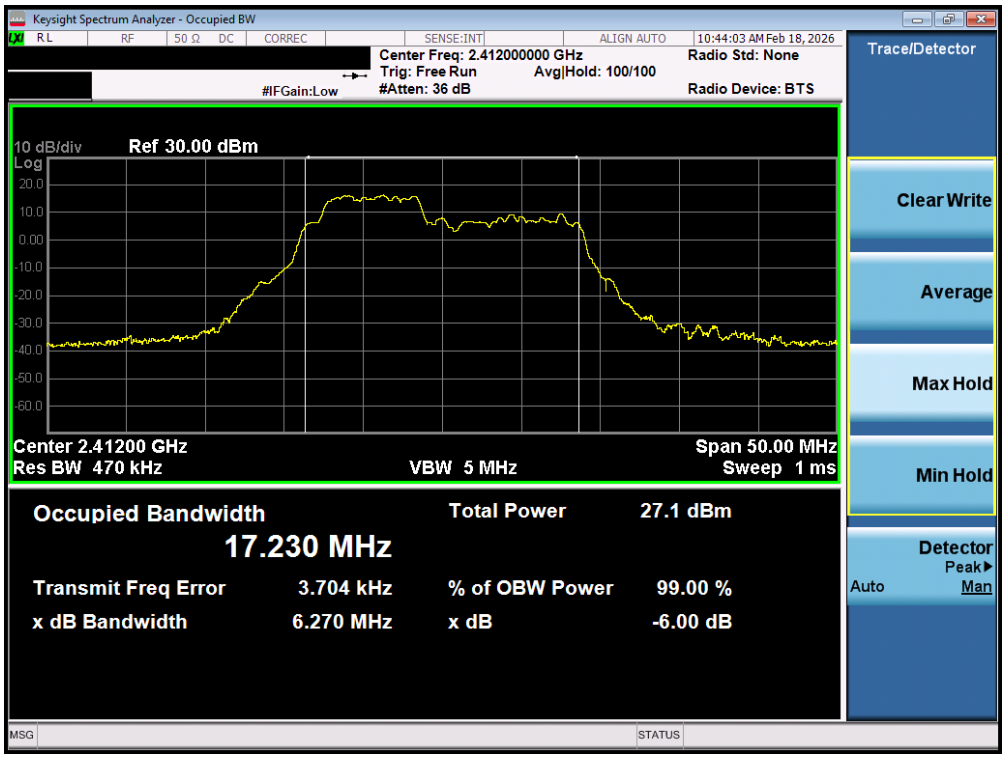
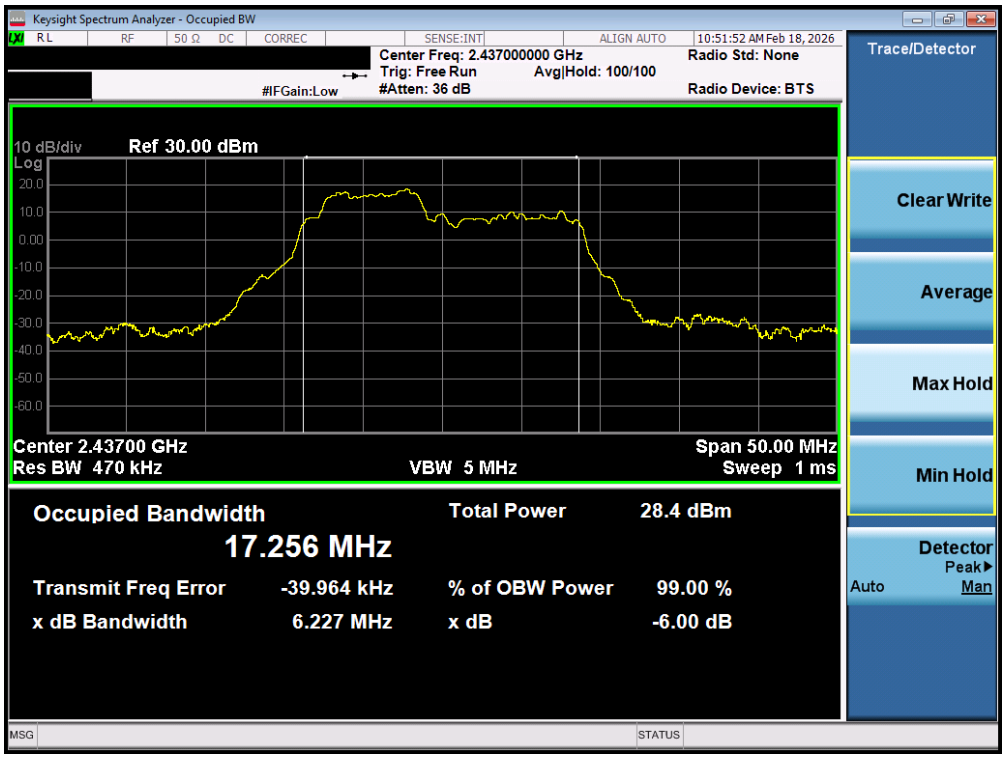


Plot 7-37. OBW Plot MIMO ANT2 (802.11ax OFDMA – 52 + 26 Tones – Ch. 1)



Plot 7-38. OBW Plot MIMO ANT2 (802.11ax OFDMA – 52 + 26 Tones – Ch. 6)

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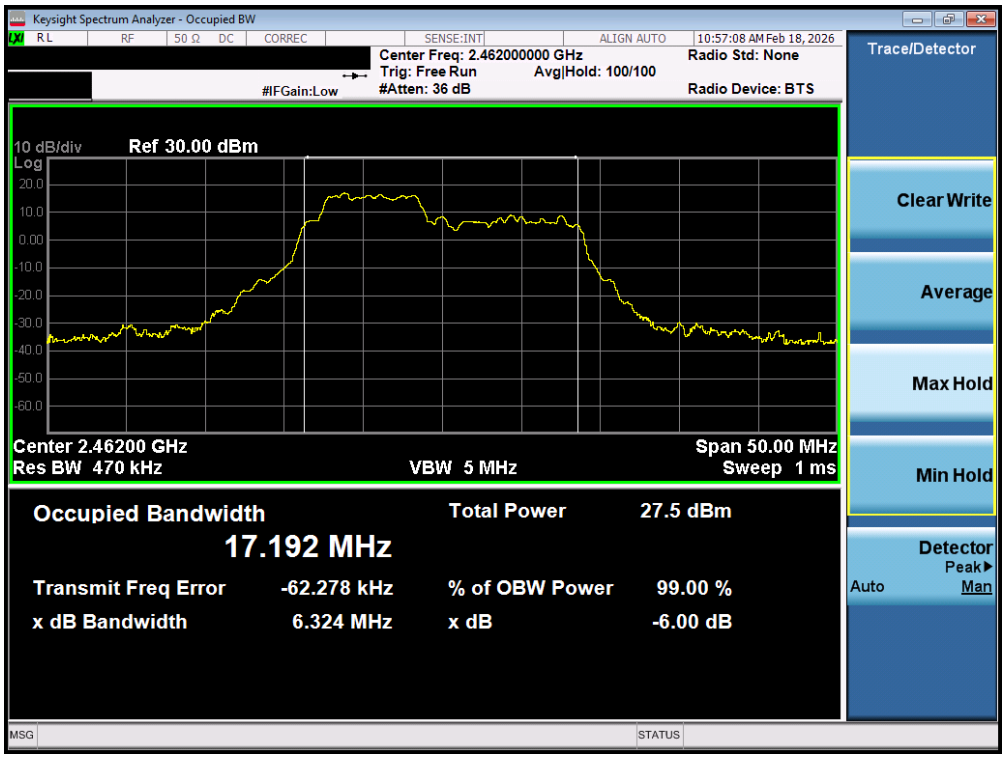
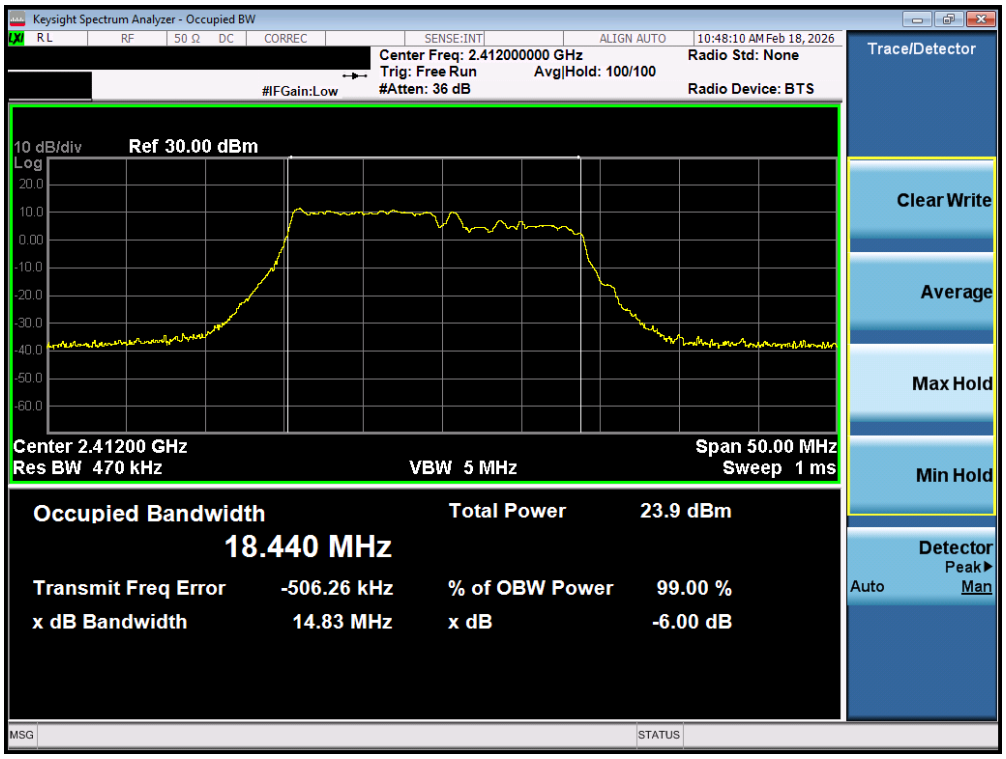


Plot 7-39. OBW Plot MIMO ANT2 (802.11ax OFDMA – 52 + 26 Tones – Ch. 11)



Plot 7-40. OBW Plot MIMO ANT2 (802.11ax OFDMA – 106 + 26 Tones – Ch. 1)

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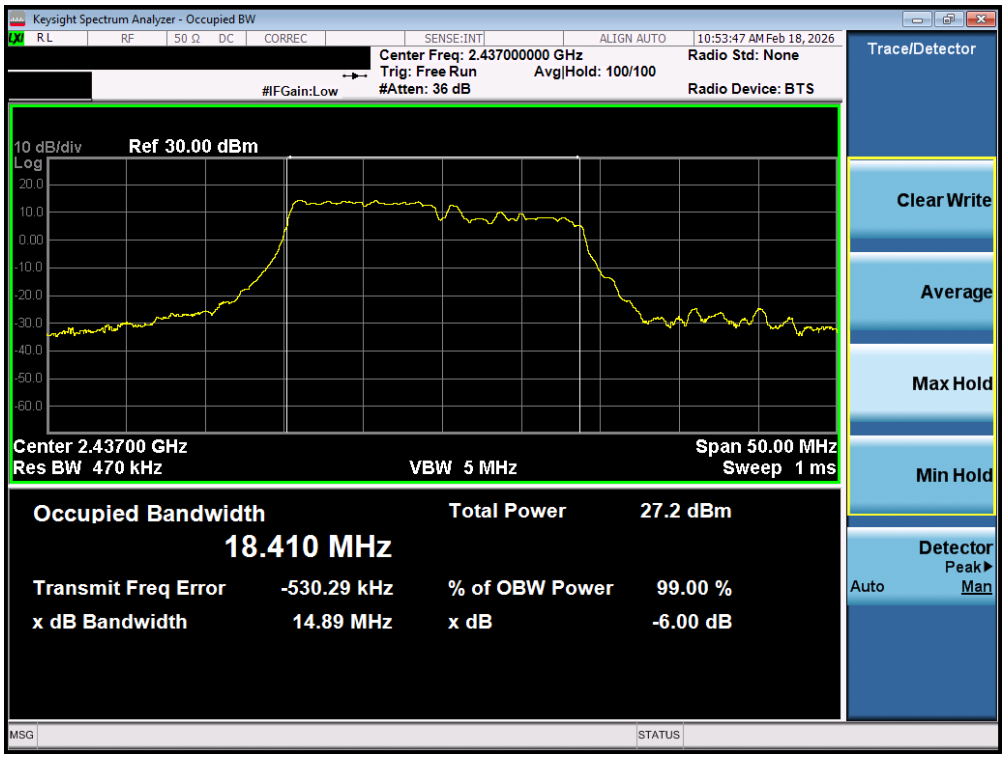
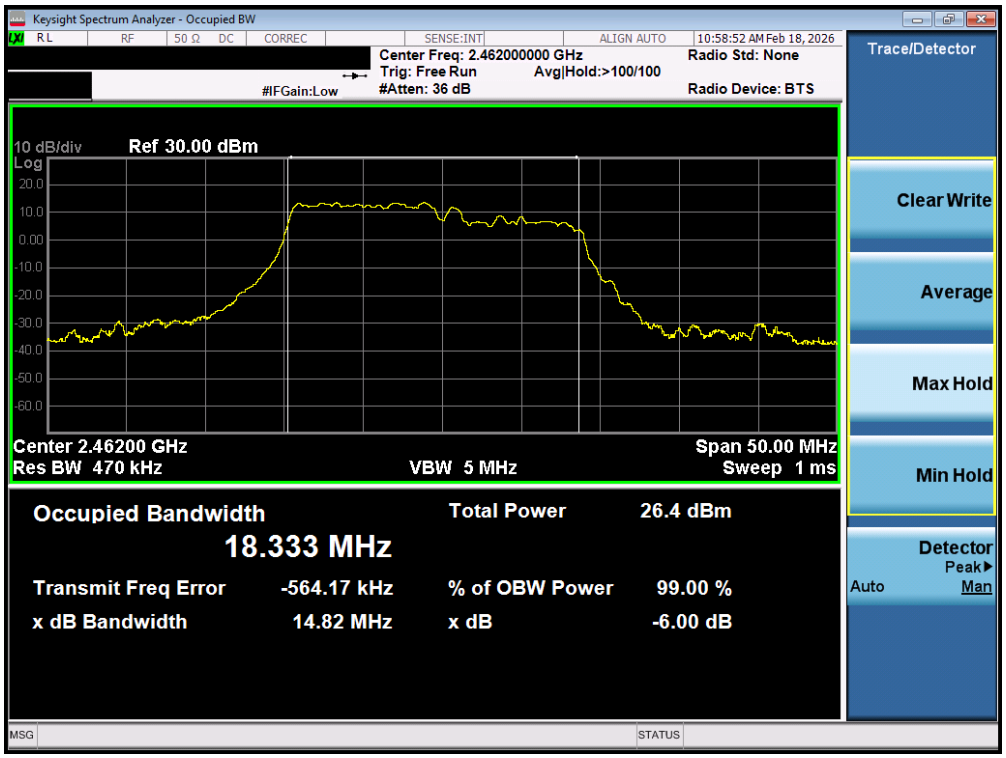


Plot 7-41. OBW Plot MIMO ANT2 (802.11ax OFDMA – 106 + 26 Tones – Ch. 6)



Plot 7-42. OBW Plot MIMO ANT2 (802.11ax OFDMA – 106 + 26 Tones – Ch. 11)

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7.3 Output Power Measurement

Test Overview and Limits

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

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

Test Procedure Used

ANSI C63.10-2020 – Section 11.9.1.3 PKPM1 Peak Power Method
ANSI C63.10-2020 – Section 11.9.2.3.2 Method AVGPM-G
ANSI C63.10-2020 – Section 14.2 Measure-and-Sum Technique

Test Settings

Method PKPM1 (Peak Power Measurement)

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

Method AVGPM-G (Average Power Measurement)

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

Test Setup

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

Figure 7-2. Test Instrument & Measurement Setup for Power Meter Measurements

Test Notes

None.

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Freq [MHz]	Channel	Tones	RU Index	Conducted Power [dBm]						Conducted Power Limit [dBm]	Avg Conducted Power Margin [dB]	Peak Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
				Antenna-1		Antenna-2		MIMO								
				AVG	PEAK	AVG	PEAK	AVG	PEAK							
2412	1	26T	0	18.59	26.43	18.51	26.49	21.56	29.47	30.00	-8.44	-0.53	5.10	26.66	36.02	-9.36
			4	18.31	25.50	18.37	25.51	21.35	28.52	30.00	-8.65	-1.48	5.10	26.45	36.02	-9.57
			8	18.79	25.46	18.70	25.90	21.76	28.70	30.00	-8.24	-1.30	5.10	26.86	36.02	-9.16
2437	6	26T	0	18.59	26.18	18.77	26.40	21.69	29.30	30.00	-8.31	-0.70	5.10	26.79	36.02	-9.23
			4	18.21	26.30	18.37	26.17	21.30	29.25	30.00	-8.70	-0.75	5.10	26.40	36.02	-9.62
			8	18.88	26.57	18.99	27.23	21.95	29.92	30.00	-8.05	-0.08	5.10	27.05	36.02	-8.97
2452	9	26T	0	18.61	26.51	18.67	26.82	21.65	29.68	30.00	-8.35	-0.32	5.10	26.75	36.02	-9.27
			4	18.38	26.30	18.56	26.52	21.48	29.42	30.00	-8.52	-0.58	5.10	26.58	36.02	-9.44
			8	18.71	26.37	18.63	26.44	21.68	29.42	30.00	-8.32	-0.58	5.10	26.78	36.02	-9.24
2457	10	26T	0	18.09	26.38	18.45	26.61	21.28	29.51	30.00	-8.72	-0.49	5.10	26.39	36.02	-9.63
			4	17.93	25.79	18.10	26.03	21.03	28.92	30.00	-8.97	-1.08	5.10	26.13	36.02	-9.89
			8	18.03	25.63	18.01	25.98	21.03	28.82	30.00	-8.97	-1.18	5.10	26.13	36.02	-9.89
2462	11	26T	0	16.96	25.02	17.82	25.59	20.42	28.32	30.00	-9.58	-1.68	5.10	25.52	36.02	-10.50
			4	17.31	25.00	17.54	25.17	20.44	28.10	30.00	-9.56	-1.90	5.10	25.54	36.02	-10.48
			8	17.33	25.07	17.10	24.59	20.23	27.85	30.00	-9.77	-2.15	5.10	25.33	36.02	-10.69
2467	12	26T	0	-5.80	1.70	-5.73	1.40	-2.75	4.12	30.00	-32.75	-25.88	5.10	2.35	36.02	-33.67
			4	-6.20	1.77	-6.40	0.96	-3.29	4.61	30.00	-33.29	-25.39	5.10	1.81	36.02	-34.21
			8	-6.48	1.63	-6.45	1.43	-3.45	4.91	30.00	-33.45	-25.09	5.10	1.65	36.02	-34.37
2472	13	26T	0	-9.96	-2.03	-9.97	-2.05	-6.95	0.49	30.00	-36.95	-29.51	5.10	-1.85	36.02	-37.87
			4	-10.50	-2.63	-10.45	-2.39	-7.46	3.05	30.00	-37.46	-26.95	5.10	-2.36	36.02	-38.38
			8	-10.30	-2.26	-9.93	-1.90	-7.10	0.12	30.00	-37.10	-29.88	5.10	-2.00	36.02	-38.02

Table 7-5. Conducted Output Power Measurements MIMO (26 Tones)

Freq [MHz]	Channel	Tones	RU Index	Conducted Power [dBm]						Conducted Power Limit [dBm]	Avg Conducted Power Margin [dB]	Peak Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
				Antenna-1		Antenna-2		MIMO								
				AVG	PEAK	AVG	PEAK	AVG	PEAK							
2412	1	52T	37	17.55	25.20	17.00	24.20	20.29	27.74	30.00	-9.71	-2.26	5.10	25.40	36.02	-10.62
			38	17.60	25.67	17.33	25.27	20.48	28.48	30.00	-9.52	-1.52	5.10	25.58	36.02	-10.44
			40	17.84	25.75	17.00	24.75	20.45	28.29	30.00	-9.55	-1.71	5.10	25.55	36.02	-10.47
2417	2	52T	37	18.93	26.69	18.06	25.88	21.53	29.31	30.00	-8.47	-0.69	5.10	26.63	36.02	-9.39
			38	18.65	26.29	18.32	26.13	21.50	29.22	30.00	-8.50	-0.78	5.10	26.60	36.02	-9.42
			40	18.83	26.52	18.06	25.79	21.47	29.18	30.00	-8.53	-0.82	5.10	26.57	36.02	-9.45
2437	6	52T	37	18.90	26.27	18.26	26.03	21.60	29.16	30.00	-8.40	-0.84	5.10	26.70	36.02	-9.32
			38	18.70	26.70	18.53	26.43	21.63	29.58	30.00	-8.37	-0.42	5.10	26.73	36.02	-9.29
			40	18.55	26.13	18.05	25.56	21.32	28.86	30.00	-8.68	-1.14	5.10	26.42	36.02	-9.60
2452	9	52T	37	18.84	26.71	18.21	25.90	21.55	29.33	30.00	-8.45	-0.67	5.10	26.65	36.02	-9.37
			38	18.73	26.61	18.47	26.37	21.61	29.50	30.00	-8.39	-0.50	5.10	26.71	36.02	-9.31
			40	18.95	26.35	18.11	25.91	21.56	29.15	30.00	-8.44	-0.85	5.10	26.66	36.02	-9.36
2457	10	52T	37	18.49	26.03	17.89	25.55	21.21	28.81	30.00	-8.79	-1.19	5.10	26.31	36.02	-9.71
			38	18.09	26.10	17.80	26.01	20.96	29.07	30.00	-9.04	-0.93	5.10	26.06	36.02	-9.96
			40	18.17	26.10	17.49	25.37	20.85	28.76	30.00	-9.15	-1.24	5.10	25.96	36.02	-10.06
2462	11	52T	37	17.54	25.07	17.10	24.62	20.34	27.86	30.00	-9.66	-2.14	5.10	25.44	36.02	-10.58
			38	17.54	25.80	17.30	25.65	20.43	28.74	30.00	-9.57	-1.26	5.10	25.53	36.02	-10.49
			40	17.12	25.96	17.50	25.18	20.32	28.60	30.00	-9.68	-1.40	5.10	25.43	36.02	-10.59
2467	12	52T	37	-0.88	6.88	-1.51	5.88	1.83	9.42	30.00	-28.17	-20.58	5.10	6.93	36.02	-29.09
			38	-1.30	7.03	-1.69	11.96	1.52	13.17	30.00	-28.48	-16.83	5.10	6.62	36.02	-29.40
			40	-2.00	6.00	-2.48	5.14	0.78	8.60	30.00	-29.22	-21.40	5.10	5.88	36.02	-30.14
2472	13	52T	37	-7.10	5.05	-7.02	9.65	-4.05	10.94	30.00	-34.05	-19.06	5.10	1.05	36.02	-34.97
			38	-8.10	5.79	-7.90	1.54	-4.99	7.18	30.00	-34.99	-22.82	5.10	0.11	36.02	-35.91
			40	-7.90	0.21	-7.57	0.40	-4.72	3.32	30.00	-34.72	-26.68	5.10	0.38	36.02	-35.64

Table 7-6. Conducted Output Power Measurements MIMO (52 Tones)

Freq [MHz]	Channel	Tones	RU Index	Conducted Power [dBm]						Conducted Power Limit [dBm]	Avg Conducted Power Margin [dB]	Peak Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
				Antenna-1		Antenna-2		MIMO								
				AVG	PEAK	AVG	PEAK	AVG	PEAK							
2412	1	106T	53	15.55	23.23	14.80	22.12	18.20	25.72	30.00	-11.80	-4.28	5.10	23.30	36.02	-12.72
			54	15.75	23.17	15.02	22.45	18.41	25.84	30.00	-11.59	-4.16	5.10	23.51	36.02	-12.51
2417	2	106T	53	18.13	25.08	17.60	25.02	20.88	28.06	30.00	-9.12	-1.94	5.10	25.98	36.02	-10.04
			54	18.25	25.65	17.64	25.22	20.97	28.45	30.00	-9.03	-1.55	5.10	26.07	36.02	-9.95
2422	3	106T	53	18.82	26.26	18.10	25.69	21.49	28.99	30.00	-8.51	-1.01	5.10	26.59	36.02	-9.43
			54	18.83	26.30	18.13	25.59	21.50	28.97	30.00	-8.50	-1.03	5.10	26.61	36.02	-9.41
2437	6	106T	53	18.77	26.03	18.14	25.54	21.48	28.80	30.00	-8.52	-1.20	5.10	26.58	36.02	-9.44
			54	18.35	26.44	18.35	25.73	21.36	29.11	30.00	-8.64	-0.89	5.10	26.46	36.02	-9.56
2452	9	106T	53	18.71	26.45	18.19	25.84	21.47	29.17	30.00	-8.53	-0.83	5.10	26.57	36.02	-9.45
			54	18.81	26.25	18.17	25.50	21.51	28.90	30.00	-8.49	-1.10	5.10	26.61	36.02	-9.41
2457	10	106T	53	18.35	25.99	17.82	25.17	21.10	28.61	30.00	-8.90	-1.39	5.10	26.20	36.02	-9.82
			54	18.20	25.65	17.45	24.99	20.85	28.34	30.00	-9.15	-1.66	5.10	25.95	36.02	-10.07
2462	11	106T	53	17.42	24.70	16.93	14.34	20.19	25.08	30.00	-9.81	-4.92	5.10	25.29	36.02	-10.73
			54	17.05	24.39	16.44	23.93	19.77	27.18	30.00	-10.23	-2.82	5.10	24.87	36.02	-11.15
2467	12	106T	53	-1.20	6.14	-1.80	5.43	1.52	8.81	30.00	-28.48	-21.19	5.10	6.62	36.02	-29.40
			54	-1.51	6.27	-2.16	5.54	1.19	8.93	30.00	-28.81	-21.07	5.10	6.29	36.02	-29.73
2472	13	106T	53	-5.07	2.81	-5.03	2.68	-2.04	5.76	30.00	-32.04	-24.24	5.10	3.06	36.02	-32.96
			54	-5.24	2.32	-5.41	2.01	-2.31	5.18	30.00	-32.31	-24.82	5.10	2.79	36.02	-33.23

Table 7-7. Conducted Output Power Measurements MIMO (106 Tones)

Freq [MHz]	Channel	Tones	RU Index	Conducted Power [dBm]						Conducted Power Limit [dBm]	Avg Conducted Power Margin [dB]	Peak Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
				Antenna-1		Antenna-2		MIMO								
				AVG	PEAK	AVG	PEAK	AVG	PEAK							
2412	1	242T	61	11.90	18.91	11.14	18.23	14.55	21.59	30.00	-15.45	-8.41	5.10	19.65	36.02	-16.37
2417	2	242T	61	13.99	20.90	13.18	20.23	16.61	23.59	30.00	-13.39	-6.41	5.10	21.72	36.02	-14.30
2422	3	242T	61	15.50	22.34	14.85	21.78	18.20	25.08	30.00	-11.80	-4.92	5.10	23.30	36.02	-12.72
2427	4	242T	61	17.22	24.11	16.43	23.53	19.85	26.84	30.00	-10.15	-3.16	5.10	24.95	36.02	-11.07
2437	6	242T	61	17.00	24.06	16.45	23.63	19.74	26.86	30.00	-10.26	-3.14	5.10	24.85	36.02	-11.17
2447	8	242T	61	17.13	24.15	16.29	23.46	19.74	26.83	30.00	-10.26	-3.17	5.10	24.84	36.02	-11.18
2452	9	242T	61	14.60	21.59	13.84	20.93	17.25	24.28	30.00	-12.75	-5.72	5.10	22.35	36.02	-13.67
2457	10	242T	61	14.54	21.48	13.95	21.00	17.27	24.26	30.00	-12.73	-5.74	5.10	22.37	36.02	-13.65
2462	11	242T	61	13.47	20.48	13.00	20.10	16.25	23.30	30.00	-13.75	-6.70	5.10	21.35	36.02	-14.67
2467	12	242T	61	10.38	17.35	9.90	16.78	13.16	20.08	30.00	-16.84	-9.92	5.10	18.26	36.02	-17.76
2472	13	242T	61	-2.86	4.29	-2.85	4.13	0.16	7.22	30.00	-29.84	-22.78	5.10	5.26	36.02	-30.76

Table 7-8. Conducted Output Power Measurements MIMO (242 Tones)

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Freq [MHz]	Channel	Tones	RU Index	Conducted Power [dBm]						Conducted Power Limit [dBm]	Avg Conducted Power Margin [dB]	Peak Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
				Antenna-1		Antenna-2		MIMO								
				AVG	PEAK	AVG	PEAK	AVG	PEAK							
2422	3	484T	65	10.32	18.90	10.21	18.80	13.28	21.86	30.00	-16.72	-8.14	5.10	18.38	36.02	-17.64
2427	4	484T	65	11.97	20.67	11.87	20.43	14.93	23.56	30.00	-15.07	-6.44	5.10	20.03	36.02	-15.99
2432	5	484T	65	13.51	22.08	13.30	21.93	16.42	25.02	30.00	-13.58	-4.98	5.10	21.52	36.02	-14.50
2457	6	484T	65	14.05	22.59	14.06	22.65	17.07	25.63	30.00	-12.93	-4.37	5.10	22.17	36.02	-13.85
2442	7	484T	65	12.12	20.73	11.88	20.39	15.01	23.57	30.00	-14.99	-6.43	5.10	20.11	36.02	-15.91
2447	8	484T	65	10.47	19.27	10.19	18.84	13.34	22.07	30.00	-16.66	-7.93	5.10	18.44	36.02	-17.58
2452	9	484T	65	10.43	19.28	10.27	18.81	13.36	22.06	30.00	-16.64	-7.94	5.10	18.46	36.02	-17.56
2457	10	484T	65	10.05	18.71	10.11	18.77	13.09	21.75	30.00	-16.91	-8.25	5.10	18.19	36.02	-17.83
2462	11	484T	65	-0.90	7.74	-1.10	9.18	2.01	11.53	30.00	-27.99	-18.47	5.10	7.11	36.02	-28.91

Table 7-9. Conducted Output Power Measurements MIMO (484 Tones)

Freq [MHz]	Channel	Tones	MRU Index	Conducted Power [dBm]						Conducted Power Limit [dBm]	Avg Conducted Power Margin [dB]	Peak Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
				Antenna-1		Antenna-2		MIMO								
				AVG	PEAK	AVG	PEAK	AVG	PEAK							
2412	1	52+26T	70	17.60	25.46	17.28	25.28	20.45	28.38	30.00	-9.55	-1.62	5.10	25.55	36.02	-10.47
			71	17.50	25.51	17.17	25.15	20.35	28.34	30.00	-9.65	-1.66	5.10	25.45	36.02	-10.57
			72	17.71	25.47	17.41	25.05	20.57	28.28	30.00	-9.43	-1.72	5.10	25.67	36.02	-10.35
2417	2	52+26T	70	18.67	26.44	18.36	26.05	21.53	29.26	30.00	-8.47	-0.74	5.10	26.63	36.02	-9.39
			71	18.56	26.02	18.26	25.93	21.42	28.99	30.00	-8.58	-1.01	5.10	26.52	36.02	-9.50
			72	18.70	26.29	18.37	25.92	21.55	29.12	30.00	-8.45	-0.88	5.10	26.65	36.02	-9.37
2437	6	52+26T	70	18.72	26.55	18.50	26.42	21.62	29.50	30.00	-8.38	-0.50	5.10	26.72	36.02	-9.30
			71	18.60	26.54	18.42	26.35	21.52	29.46	30.00	-8.48	-0.54	5.10	26.62	36.02	-9.40
			72	18.81	26.61	18.62	26.49	21.73	29.56	30.00	-8.27	-0.44	5.10	26.83	36.02	-9.19
2452	9	52+26T	70	18.70	26.60	18.56	26.30	21.64	29.46	30.00	-8.36	-0.54	5.10	26.74	36.02	-9.28
			71	18.64	26.46	18.48	26.42	21.57	29.45	30.00	-8.43	-0.55	5.10	26.67	36.02	-9.35
			72	18.76	26.45	18.50	16.19	21.64	26.84	30.00	-8.36	-3.16	5.10	26.74	36.02	-9.28
2457	10	52+26T	70	18.25	25.97	18.17	25.93	21.22	28.96	30.00	-8.78	-1.04	5.10	26.32	36.02	-9.70
			71	18.17	25.86	18.02	25.76	21.11	28.82	30.00	-8.89	-1.18	5.10	26.21	36.02	-9.81
			72	18.12	25.97	17.80	25.78	20.97	28.89	30.00	-9.03	-1.11	5.10	26.07	36.02	-9.95
2462	11	52+26T	70	17.89	25.55	17.83	25.36	20.87	28.47	30.00	-9.13	-1.53	5.10	25.97	36.02	-10.05
			71	17.71	25.54	17.58	25.37	20.66	28.47	30.00	-9.34	-1.53	5.10	25.76	36.02	-10.26
			72	17.52	25.51	17.32	25.37	20.43	28.45	30.00	-9.57	-1.55	5.10	25.53	36.02	-10.49
2467	12	52+26T	70	-1.00	6.55	-1.30	6.27	1.86	9.42	30.00	-28.14	-20.58	5.10	6.96	36.02	-29.06
			71	-1.26	9.53	-1.60	13.15	1.58	14.72	30.00	-28.42	-15.28	5.10	6.69	36.02	-29.33
			72	-1.30	6.79	-1.67	6.48	1.53	9.65	30.00	-28.47	-20.35	5.10	6.63	36.02	-29.39
2472	13	52+26T	70	-7.50	0.19	-7.43	0.15	-4.45	3.18	30.00	-34.45	-26.82	5.10	0.65	36.02	-35.37
			71	-7.85	-0.08	-7.79	0.09	-4.81	3.02	30.00	-34.81	-26.98	5.10	0.29	36.02	-35.73
			72	-8.12	-0.09	-7.80	0.18	-4.95	3.06	30.00	-34.95	-26.94	5.10	0.15	36.02	-35.87

Table 7-10. Conducted Output Power Measurements MIMO (52 + 26 Tones)

Freq [MHz]	Channel	Tones	MRU Index	Conducted Power [dBm]						Conducted Power Limit [dBm]	Avg Conducted Power Margin [dB]	Peak Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
				Antenna-1		Antenna-2		MIMO								
				AVG	PEAK	AVG	PEAK	AVG	PEAK							
2412	1	106+26T	82	15.40	23.70	15.10	23.17	18.26	26.45	30.00	-11.74	-3.55	5.10	23.36	36.02	-12.66
			83	15.65	23.77	15.34	23.24	18.51	26.52	30.00	-11.49	-3.48	5.10	23.61	36.02	-12.41
2417	2	106+26T	82	18.01	26.19	17.82	25.90	20.93	29.06	30.00	-9.07	-0.94	5.10	26.03	36.02	-9.99
			83	18.20	25.78	17.89	25.54	21.06	28.67	30.00	-8.94	-1.33	5.10	26.16	36.02	-9.86
2422	3	106+26T	82	18.63	26.69	18.44	26.28	21.55	29.50	30.00	-8.45	-0.50	5.10	26.65	36.02	-9.37
			83	18.74	26.20	18.41	26.15	21.59	29.19	30.00	-8.41	-0.81	5.10	26.69	36.02	-9.33
2437	6	106+26T	82	18.65	26.42	18.43	26.24	21.55	29.34	30.00	-8.45	-0.66	5.10	26.65	36.02	-9.37
			83	18.79	26.98	18.59	26.83	21.70	29.92	30.00	-8.30	-0.08	5.10	26.80	36.02	-9.22
2452	9	106+26T	82	18.61	26.66	18.46	26.53	21.55	29.61	30.00	-8.45	-0.39	5.10	26.65	36.02	-9.37
			83	18.72	26.37	18.42	26.13	21.58	29.26	30.00	-8.42	-0.74	5.10	26.68	36.02	-9.34
2457	10	106+26T	82	18.20	26.26	18.06	26.23	21.14	29.26	30.00	-8.86	-0.74	5.10	26.24	36.02	-9.78
			83	18.08	25.90	17.74	25.66	20.92	28.79	30.00	-9.08	-1.21	5.10	26.03	36.02	-9.99
2462	11	106+26T	82	17.15	25.58	17.12	25.30	20.15	28.45	30.00	-9.85	-1.55	5.10	25.25	36.02	-10.77
			83	16.90	25.20	16.68	24.95	19.80	28.09	30.00	-10.20	-1.91	5.10	24.90	36.02	-11.12
2467	12	106+26T	82	-1.09	7.05	-1.36	6.64	1.79	9.86	30.00	-28.21	-20.14	5.10	6.89	36.02	-29.13
			83	-1.90	6.18	-2.10	6.08	1.01	9.14	30.00	-28.99	-20.86	5.10	6.11	36.02	-29.91
2472	13	106+26T	82	-4.68	3.46	-4.58	3.55	-1.62	6.52	30.00	-31.62	-23.48	5.10	3.48	36.02	-32.54
			83	-5.10	3.20	-4.80	3.60	-1.94	6.41	30.00	-31.94	-23.59	5.10	3.16	36.02	-32.86

Table 7-11. Conducted Output Power Measurements MIMO (106 + 26 Tones)

Note:

Per ANSI C63.10-2020 Section 14.2, 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.

Sample MIMO Calculation:

At 2412MHz the average conducted output power was measured to be 18.59 dBm for Antenna 1 and 18.51 dBm for Antenna 2.

Antenna 1 + Antenna 2 = MIMO

(18.59 dBm + 18.51 dBm) = (72.28 mW + 70.96 mW) = 143.24 mW = 21.56 dBm

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Sample e.i.r.p. Calculation:

At 2412MHz the average MIMO conducted output power was calculated to be 21.56 dBm with directional gain of 5.10 dBi.

e.i.r.p. (dBm) = Conducted Power (dBm) + Ant gain (dBi)

21.56 dBm + 5.10 dBi = 26.66

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7.4 Power Spectral Density

Test Overview and Limit

The peak power density is measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates, tones configurations, and RU indices were investigated and the worst-case configuration results are reported in this section.

The maximum permissible power spectral density shall not be greater than 8 dBm in any 3 kHz band.

Test Procedure Used

ANSI C63.10-2020 – Section 11.10.2 Method PKPSD
ANSI C63.10-2020 – Section 14.3.1 Measure-and-Sum Technique

Test Settings

1. Analyzer was set to the center frequency of the DTS channel under investigation
2. Span = 1.5 times the DTS channel bandwidth
3. RBW = 3kHz
4. VBW = 1MHz
5. Detector = peak
6. Sweep time = auto couple
7. Trace mode = max hold
8. Trace was allowed to stabilize

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

1. Based on preliminary measurements, it was determined that, of all of the tone configurations, the 26T configuration produced the worst case power spectral density measurement for partial loaded case. Therefore, 26 Tone, 242 Tone configuration and 484 Tone data is included in this section.
2. The power spectral density for each channel was measured with the RU index showing the highest conducted power.

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Power Spectral Density Measurements

Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	ANT 1 Power Spectral Density [dBm]	ANT 2 Power Spectral Density [dBm]	Summed MIMO Power Spectral Density [dBm]	Maximum Permissible Power Density [dBm / 3kHz]	Margin [dB]	Pass / Fail
2412	1	be	26T	MCS0	1.28	1.57	4.44	8.00	-3.56	Pass
2437	6	be	26T	MCS0	1.79	1.42	4.62	8.00	-3.38	Pass
2462	11	be	26T	MCS0	2.09	3.33	5.76	8.00	-2.24	Pass
2412	1	be	242T	MCS0	-6.46	-7.79	-4.06	8.00	-12.06	Pass
2437	6	be	242T	MCS0	-7.05	-7.45	-4.24	8.00	-12.24	Pass
2462	11	be	242T	MCS0	-7.02	-7.49	-4.24	8.00	-12.24	Pass
2422	3	be	484T	MCS0	-17.97	-16.93	-14.41	8.00	-22.41	Pass
2437	6	be	484T	MCS0	-13.47	-13.26	-10.35	8.00	-18.35	Pass
2462	11	be	484T	MCS0	-28.41	-28.45	-25.42	8.00	-33.42	Pass

Table 7-12. Conducted Power Spectral Density Measurements MIMO

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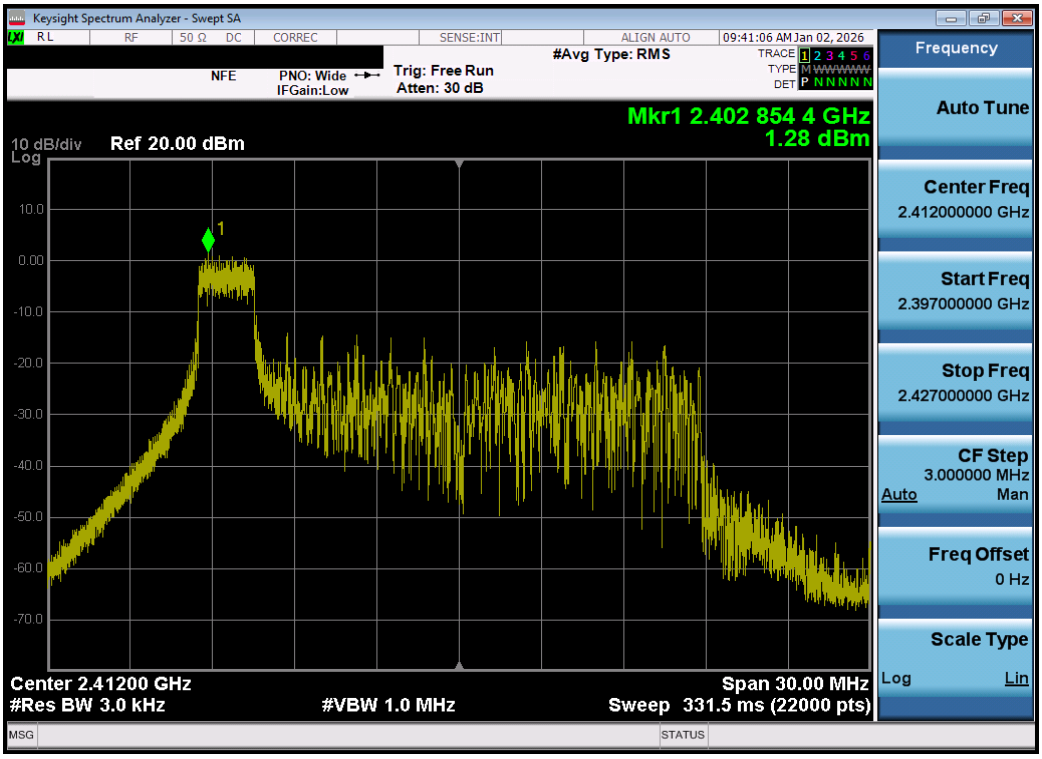
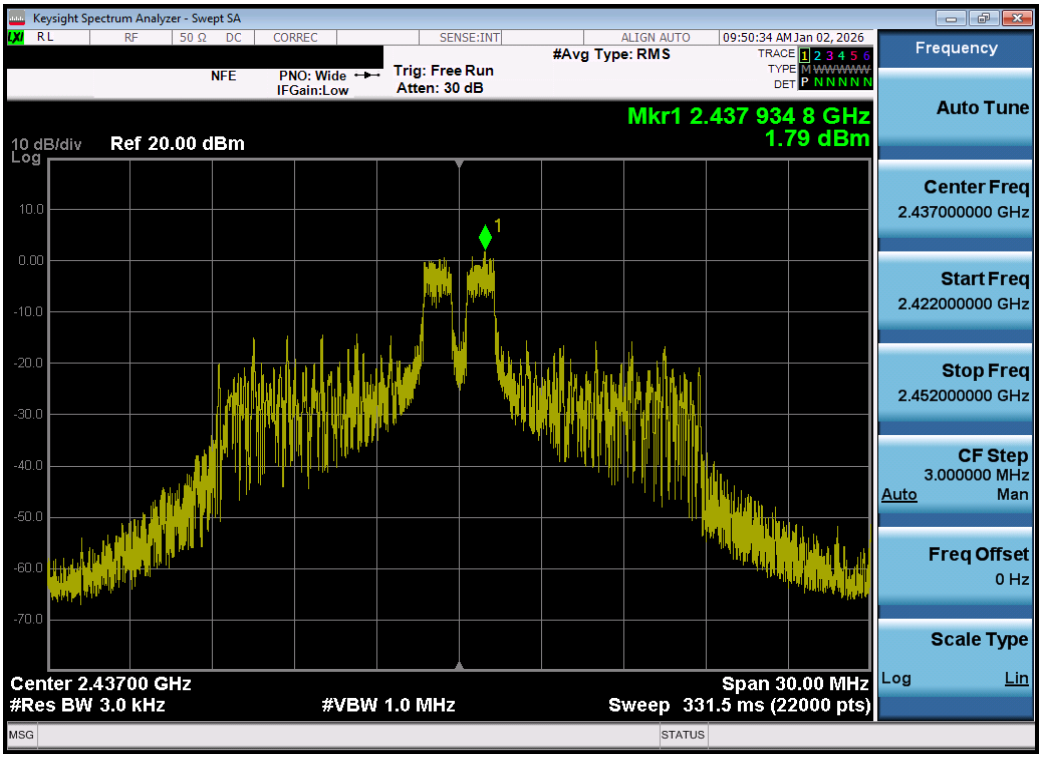
7.4.1 MIMO Antenna-1 Power Spectral Density Measurements



Plot 7-43. Power Spectral Density Plot MIMO ANT1 (802.11be OFDMA – 26 Tones – Ch. 1) – DUAL ANT 1



Plot 7-44. Power Spectral Density Plot MIMO ANT1 (802.11be OFDMA – 26 Tones – Ch. 6) – DUAL ANT 1

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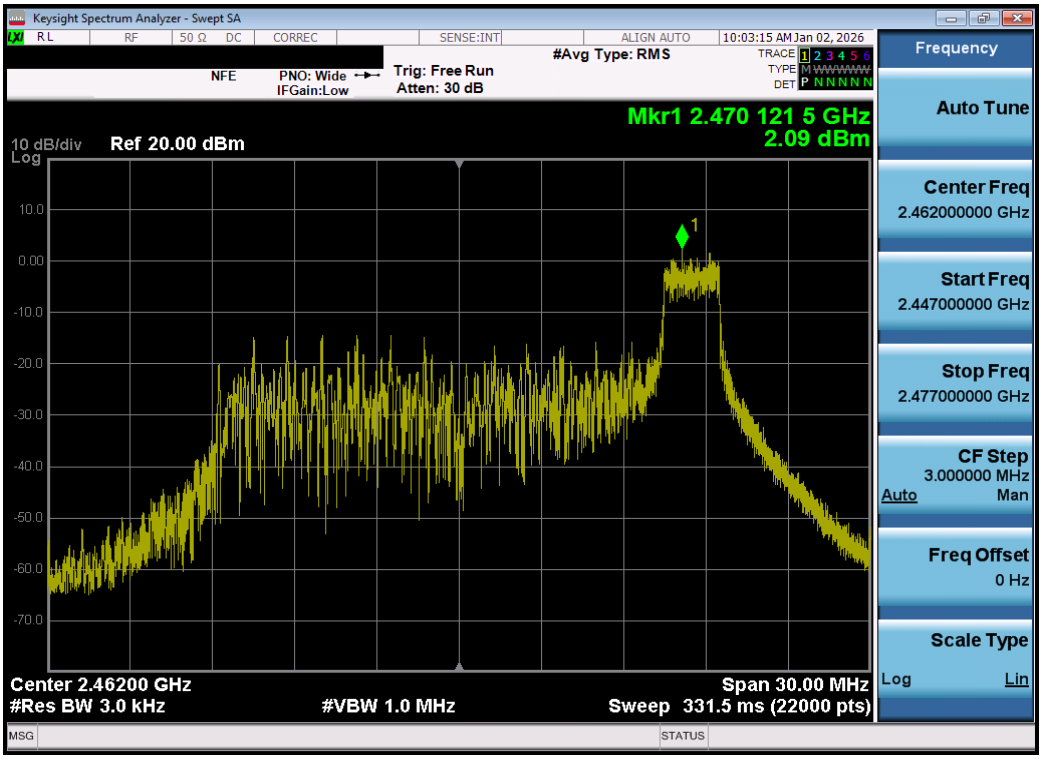
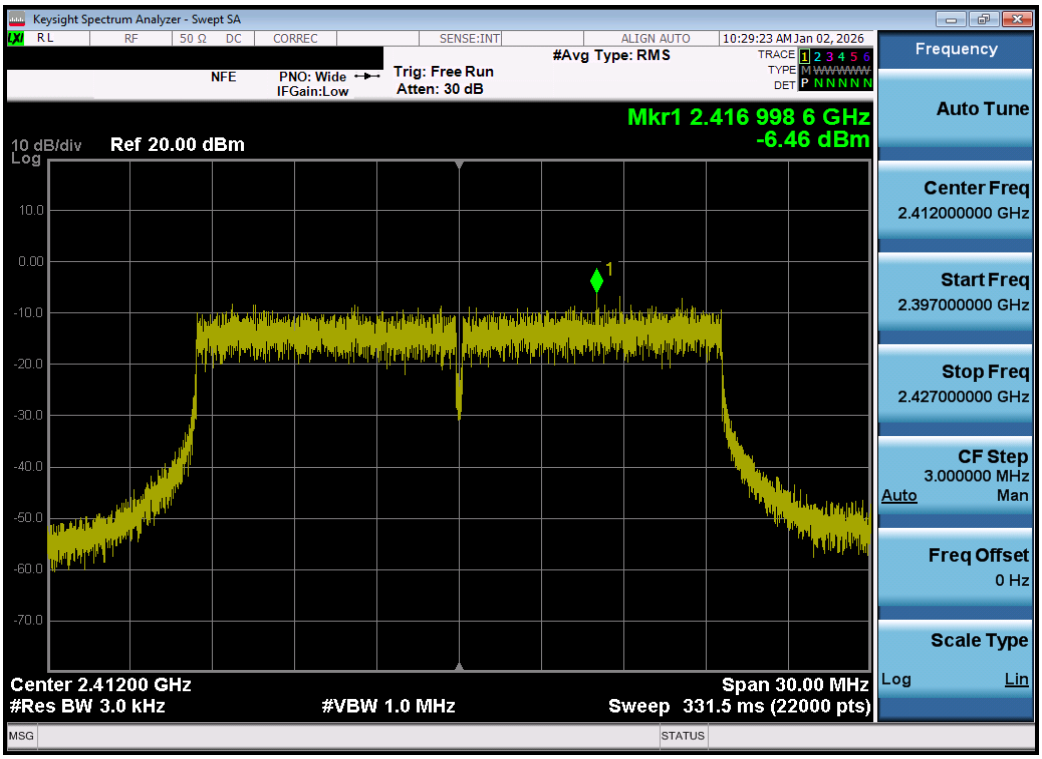


Plot 7-45. Power Spectral Density Plot MIMO ANT1 (802.11be OFDMA – 26 Tones – Ch. 11) – DUAL ANT 1



Plot 7-46. Power Spectral Density Plot MIMO ANT1 (802.11be OFDMA – 242 Tones – Ch. 1) – DUAL ANT 1

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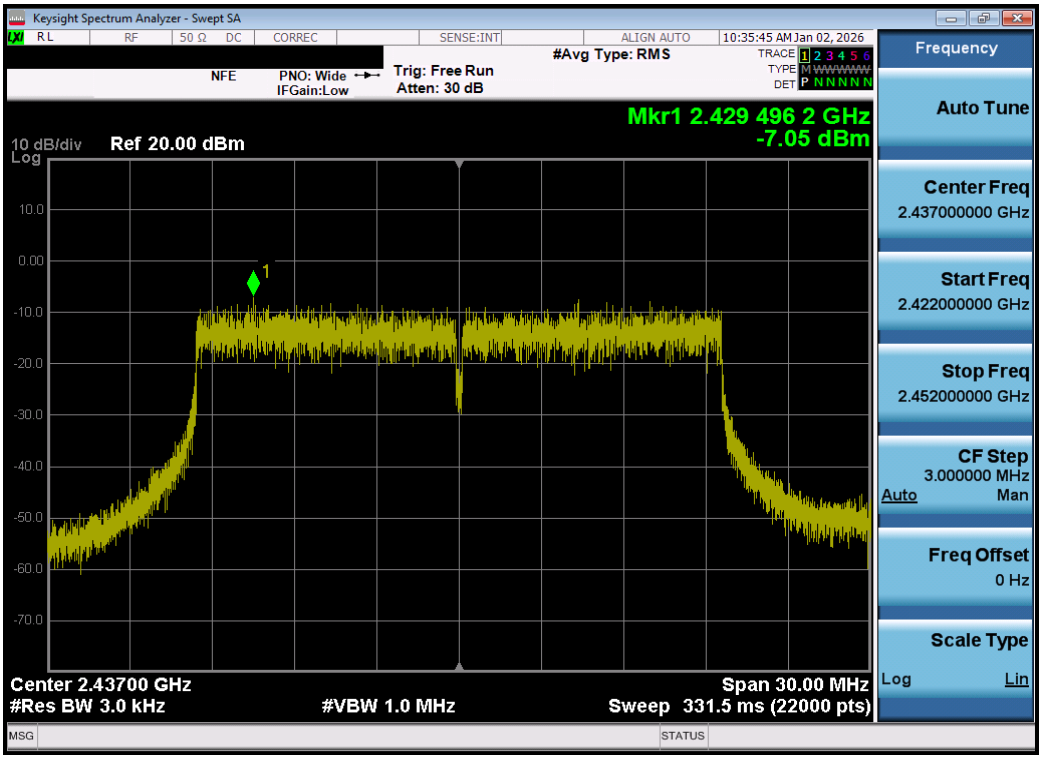
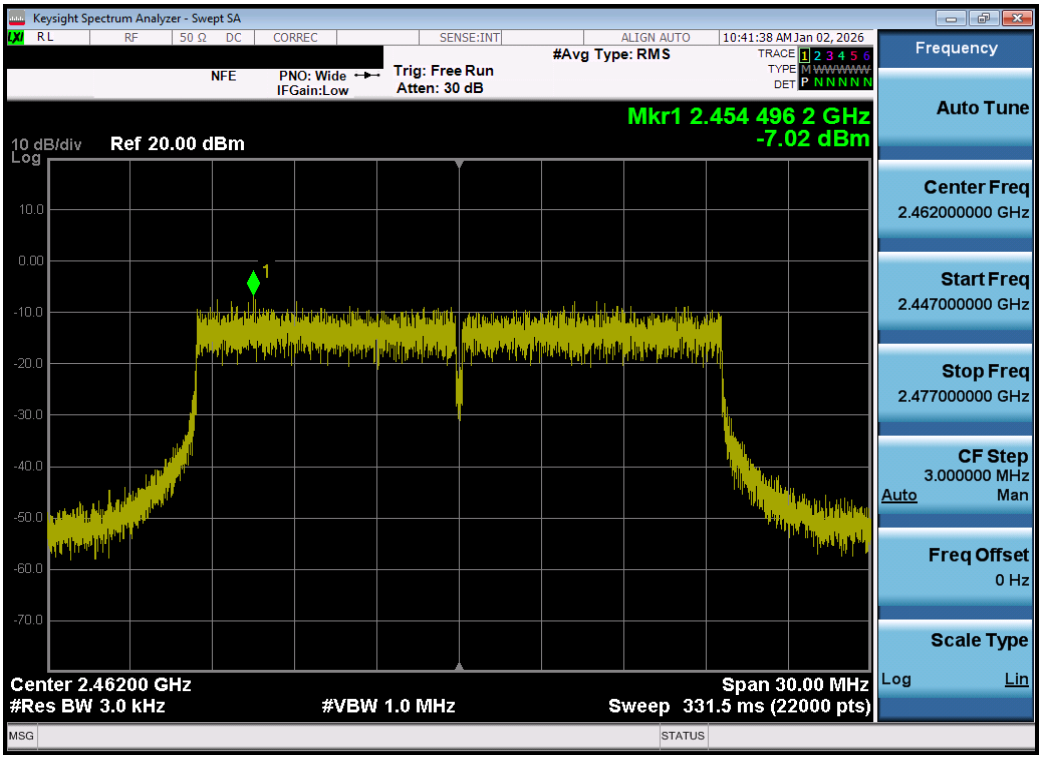


Plot 7-47. Power Spectral Density Plot MIMO ANT1 (802.11be OFDMA – 242 Tones – Ch. 6) – DUAL ANT 1



Plot 7-48. Power Spectral Density Plot MIMO ANT1 (802.11be OFDMA – 242 Tones – Ch. 11) – DUAL ANT 1

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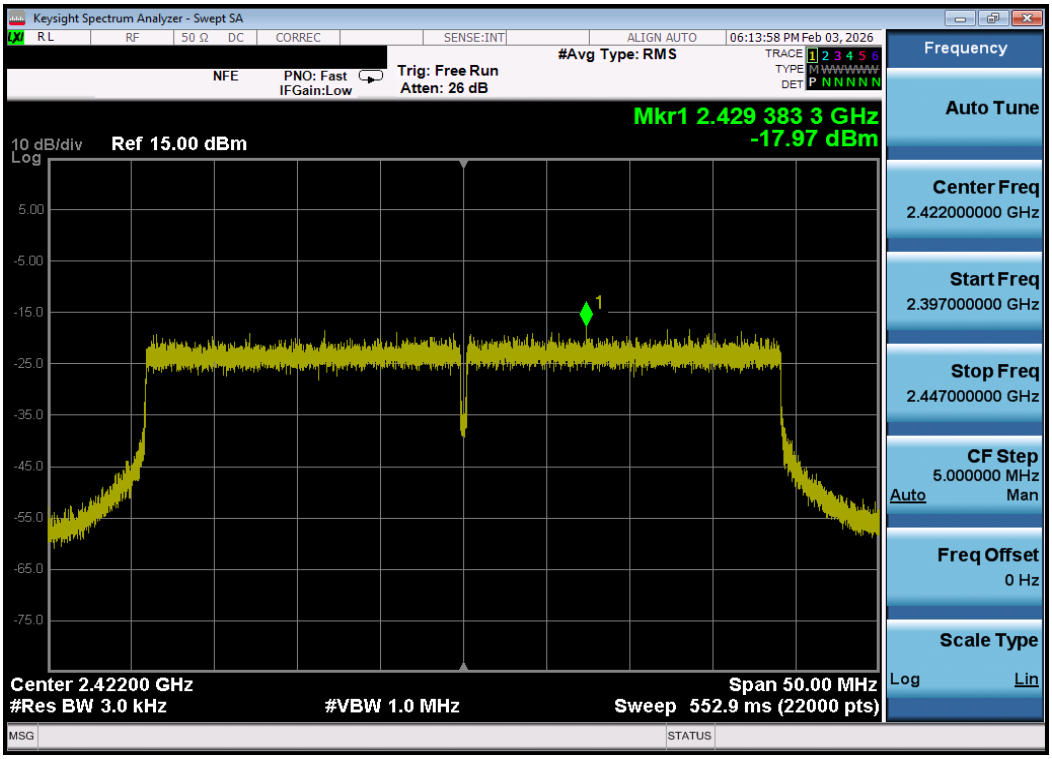
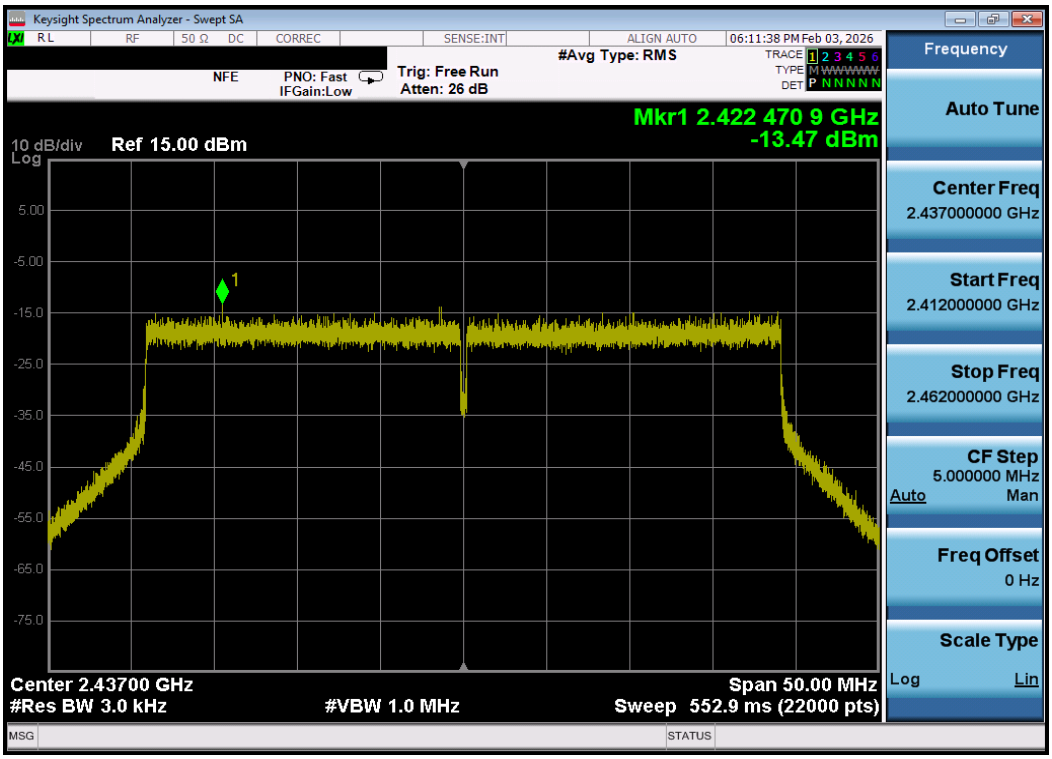


Plot 7-49. Power Spectral Density Plot MIMO ANT1 (802.11be OFDMA – 484 Tones – Ch. 3) – DUAL ANT 1



Plot 7-50. Power Spectral Density Plot MIMO ANT1 (802.11be OFDMA – 484 Tones – Ch. 6) – DUAL ANT 1

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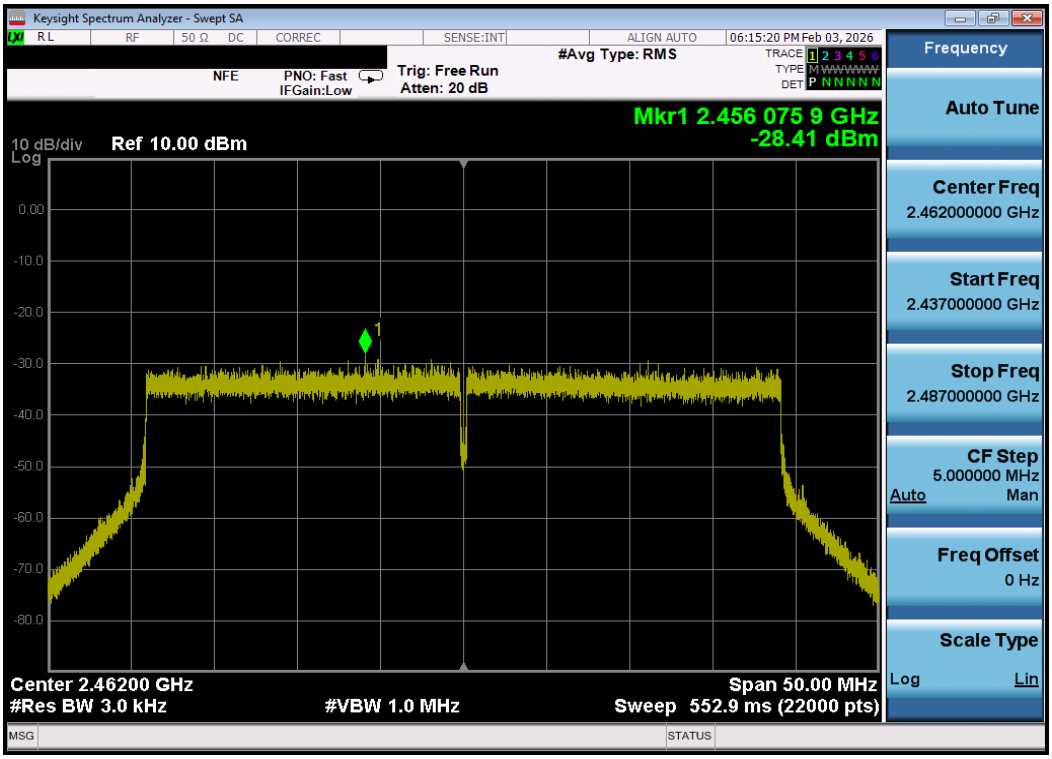

Plot 7-51. Power Spectral Density Plot MIMO ANT1 (802.11be OFDMA – 484 Tones – Ch. 11) – DUAL ANT 1

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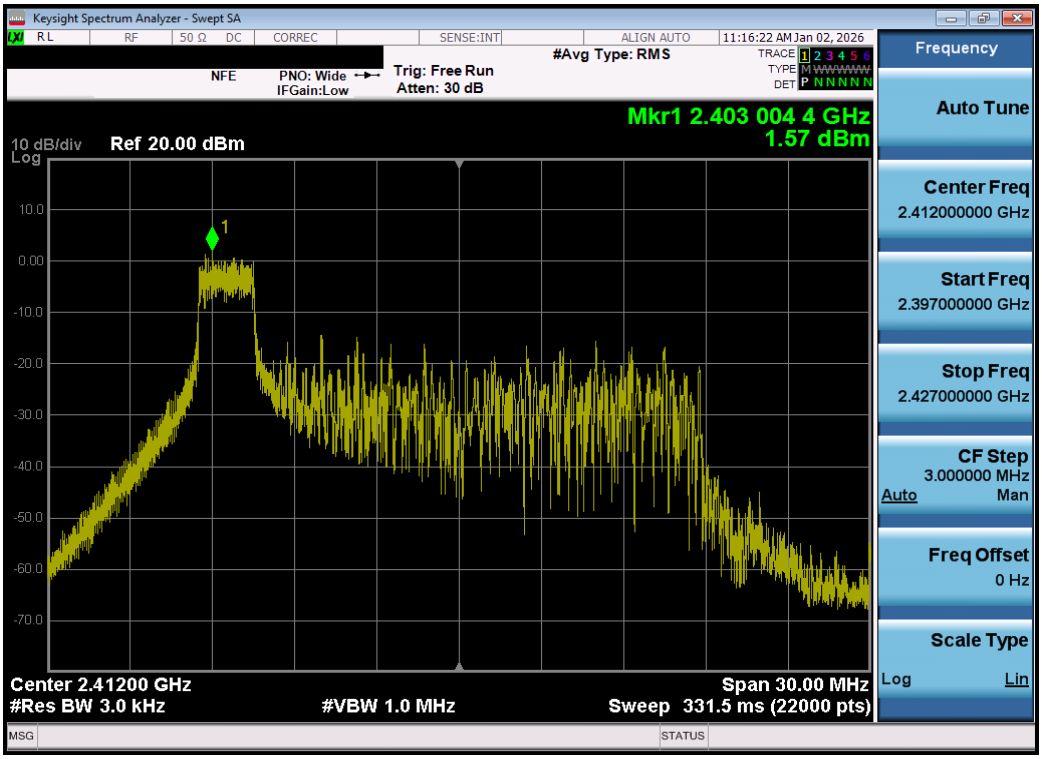
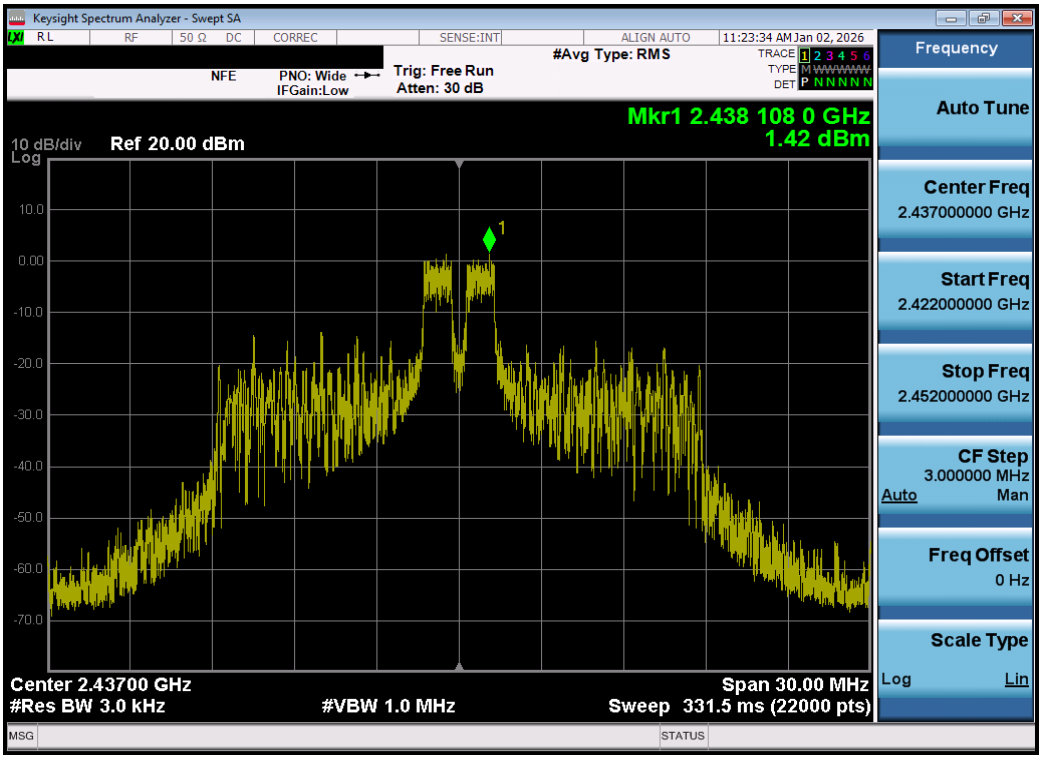
7.4.2 MIMO Antenna-2 Power Spectral Density Measurements



Plot 7-52. Power Spectral Density Plot MIMO ANT2 (802.11be OFDMA – 26 Tones – Ch. 1) – DUAL ANT 2



Plot 7-53. Power Spectral Density Plot MIMO ANT2 (802.11be OFDMA – 26 Tones – Ch. 6) – DUAL ANT 2

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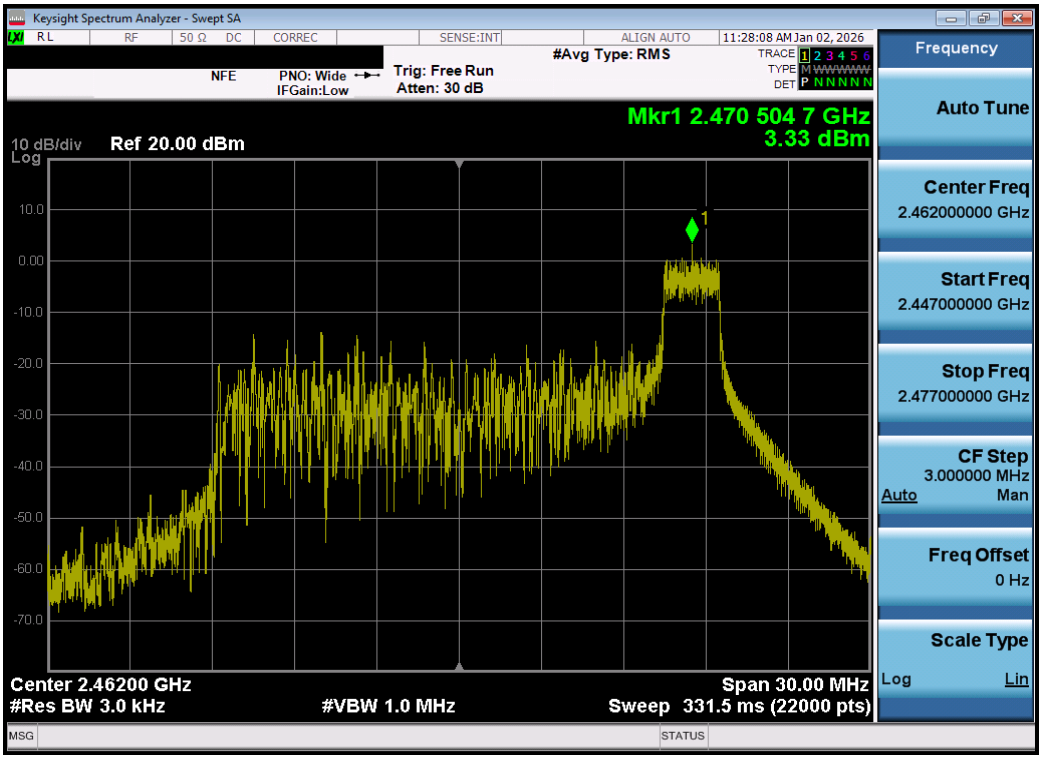
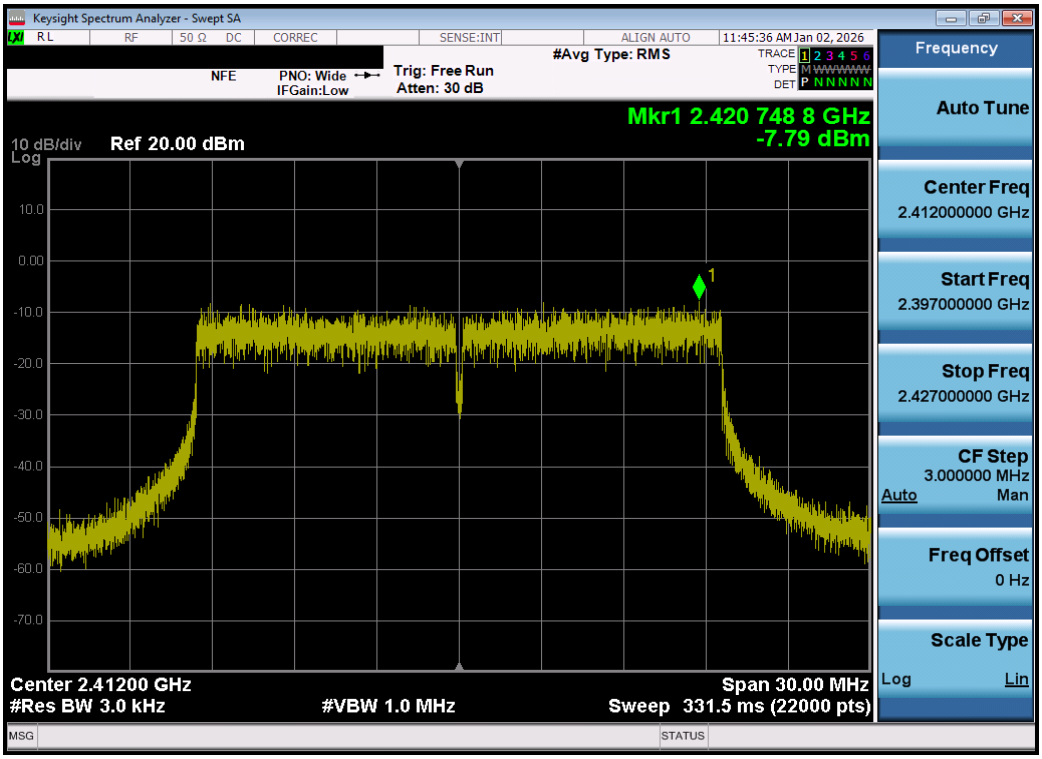


Plot 7-54. Power Spectral Density Plot MIMO ANT2 (802.11be OFDMA – 26 Tones – Ch. 11) – DUAL ANT 2



Plot 7-55. Power Spectral Density Plot MIMO ANT2 (802.11be OFDMA – 242 Tones – Ch. 1) – DUAL ANT 2

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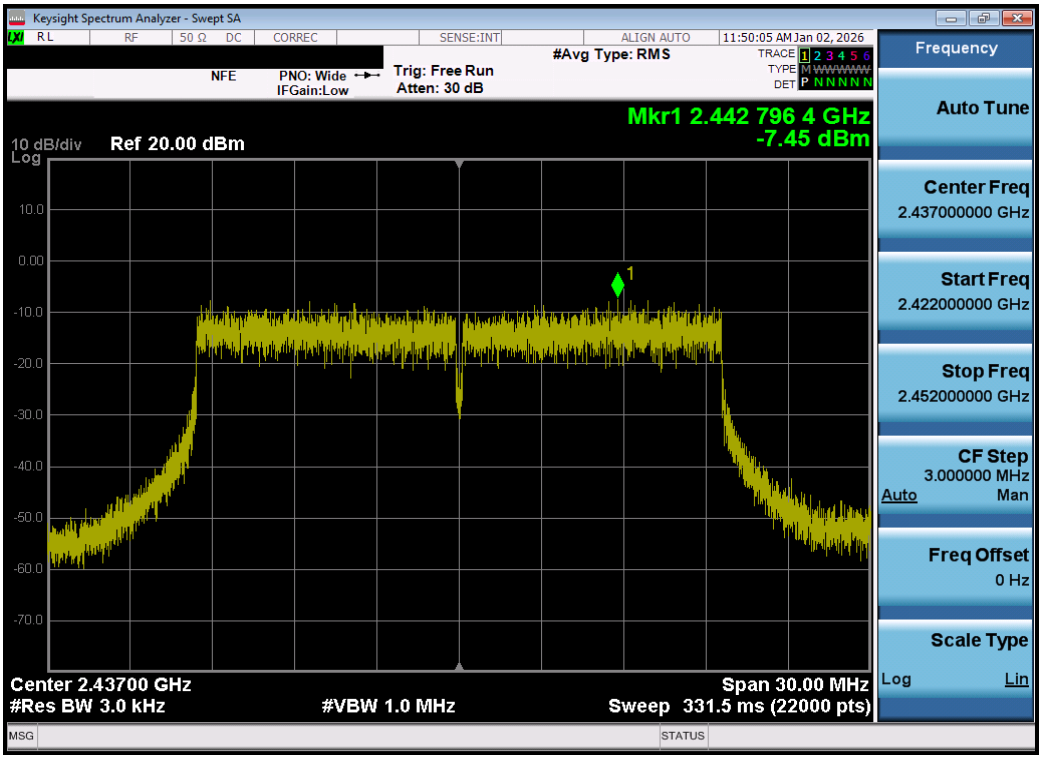
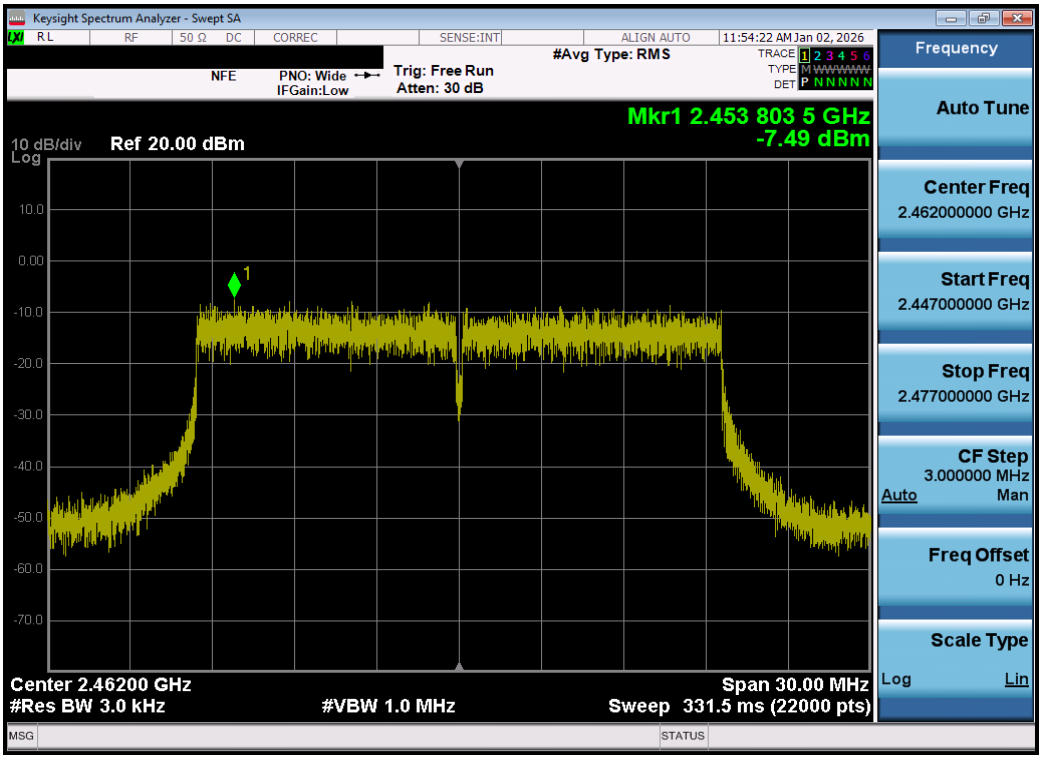


Plot 7-56. Power Spectral Density Plot MIMO ANT2 (802.11be OFDMA – 242 Tones – Ch. 6) – DUAL ANT 2



Plot 7-57. Power Spectral Density Plot MIMO ANT2 (802.11be OFDMA – 242 Tones – Ch. 11) – DUAL ANT 2

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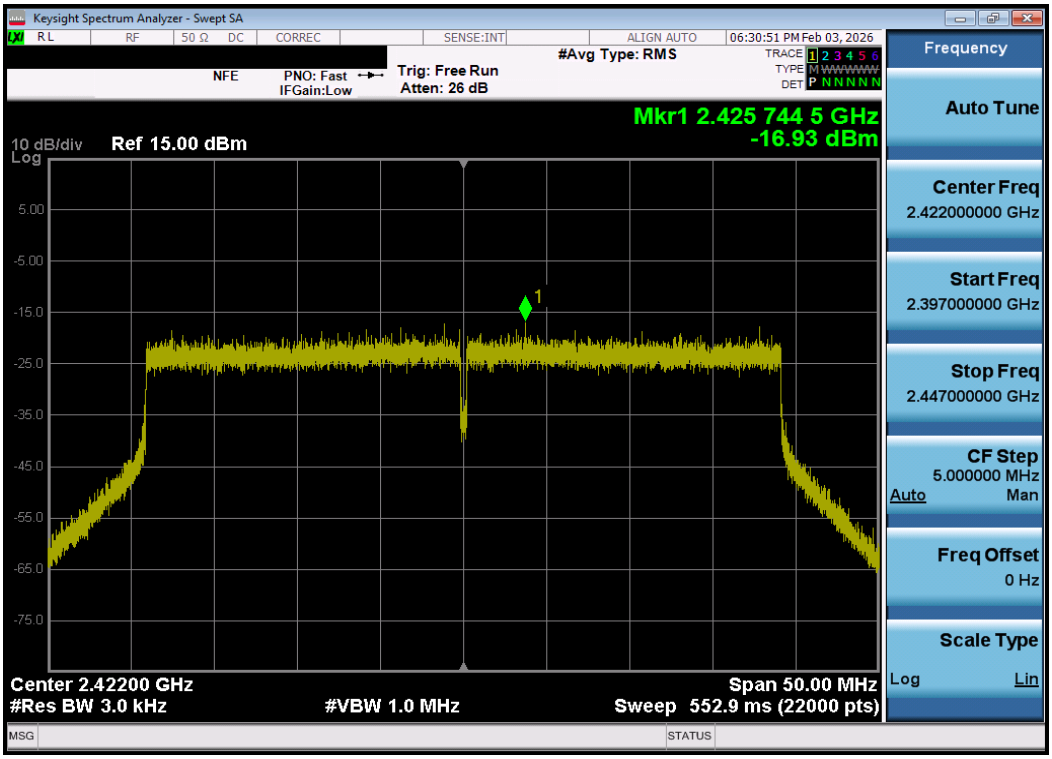
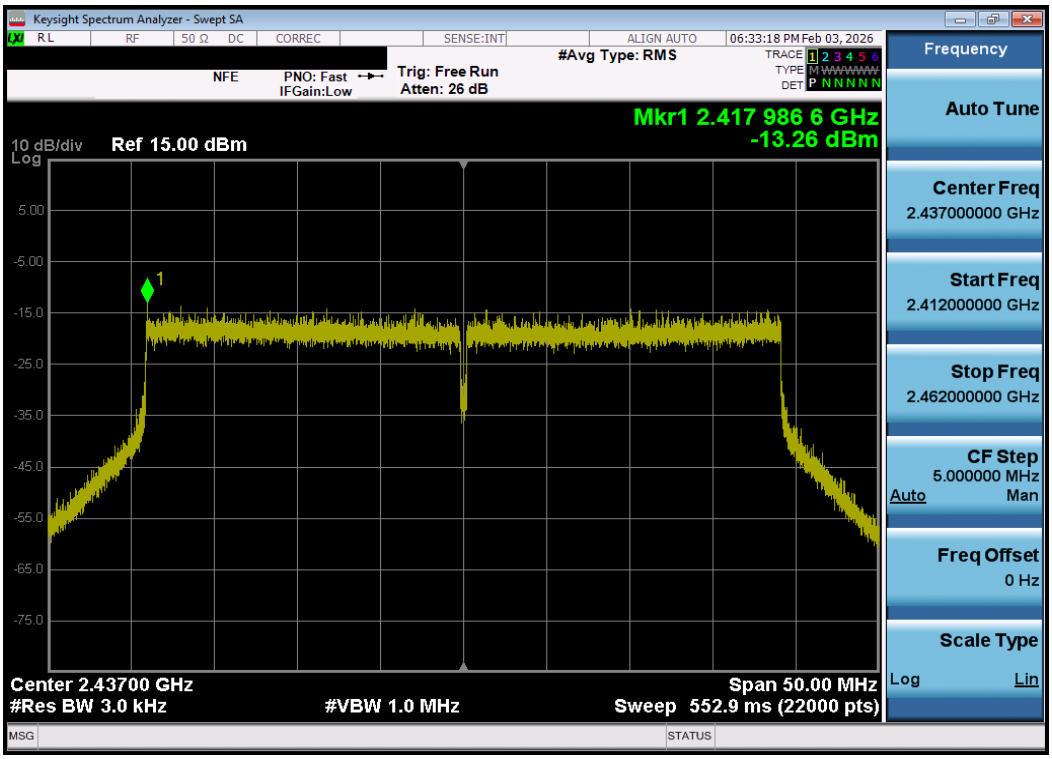


Plot 7-58. Power Spectral Density Plot MIMO ANT2 (802.11be OFDMA – 484 Tones – Ch. 3) – DUAL ANT 2



Plot 7-59. Power Spectral Density Plot MIMO ANT2 (802.11be OFDMA – 484 Tones – Ch. 6) – DUAL ANT 2

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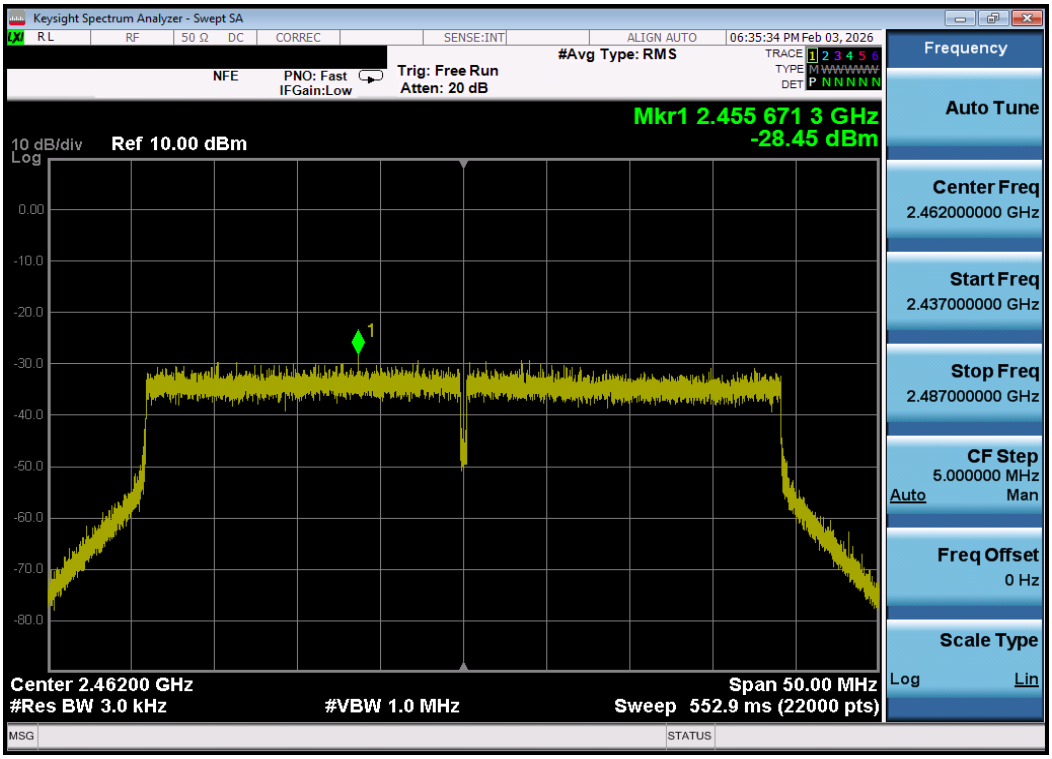

Plot 7-60. Power Spectral Density Plot MIMO ANT2 (802.11be OFDMA – 484 Tones – Ch. 11) – DUAL ANT 2

Note:

Per ANSI C63.10-2020 Section 14.3.1, the power spectral density at Antenna 1 and Antenna 2 were first measured separately as shown in the section above. The measured values were then summed in linear power units then converted back to dBm.

Sample MIMO Calculation:

At 2412MHz the average conducted power spectral density was measured to be 1.28 dBm for Antenna 1 and 1.57 dBm for Antenna 2.

Antenna 1 + Antenna 2 = MIMO

(1.28 dBm + 1.57 dBm) = (1.34 mW + 1.44 mW) = 2.78 mW = 4.44 dBm

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7.5 Conducted Band Edge Emissions

Test Overview and Limit

All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates, tone configurations, and RU indices were investigated to determine the worst-case configuration. For the following out of band conducted emissions plots at the band edge, the EUT was set to a data rate of MCS0 in 802.11be mode as this setting produced the worst-case emissions.

The limit for out-of-band spurious emissions at the band edge is 20dB below the fundamental emission level, as determined from the in-band power measurement of the DTS channel performed in a 100kHz bandwidth per the PSD procedure (Section 7.4).

Test Procedure Used

ANSI C63.10-2020 – Section 11.11.3

Test Settings

1. Start and stop frequency were set such that the band edge would be placed in the center of the plot
2. Span was set large enough so as to capture all out of band emissions near the band edge
3. RBW = 100kHz
4. VBW = 1MHz
5. Detector = Peak
6. Number of sweep points ≥ 2 x Span/RBW
7. Trace mode = max hold
8. Sweep time = auto couple
9. The trace was allowed to stabilize

Test Setup

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

Figure 7-4. Test Instrument & Measurement Setup

Test Notes

None.

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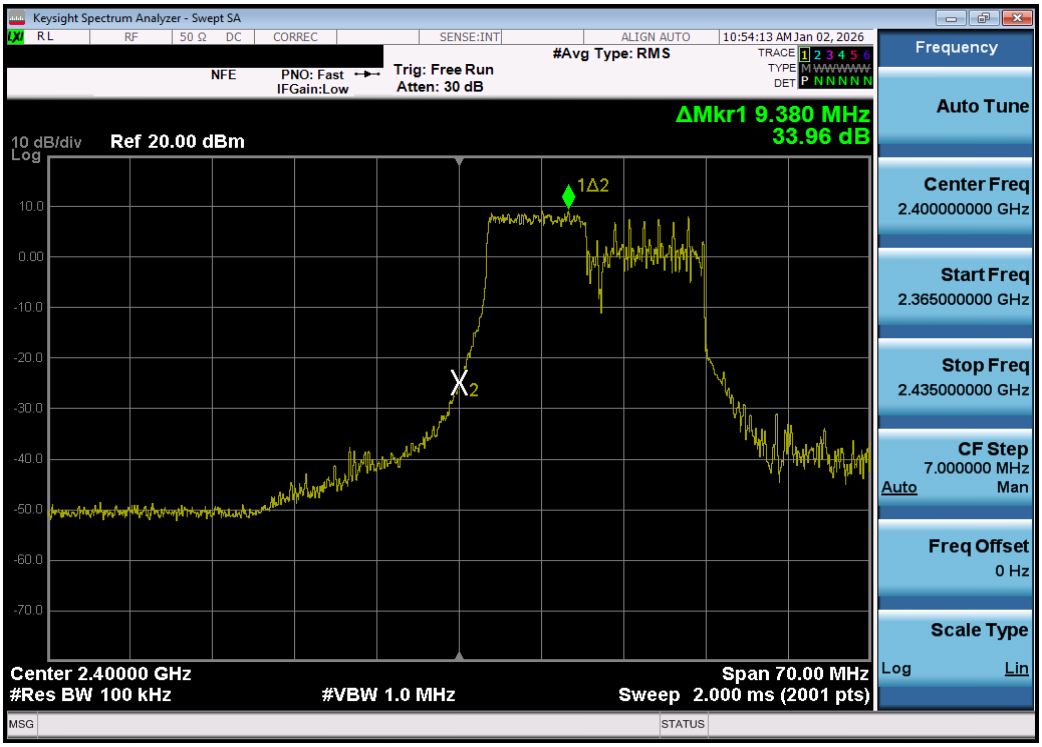
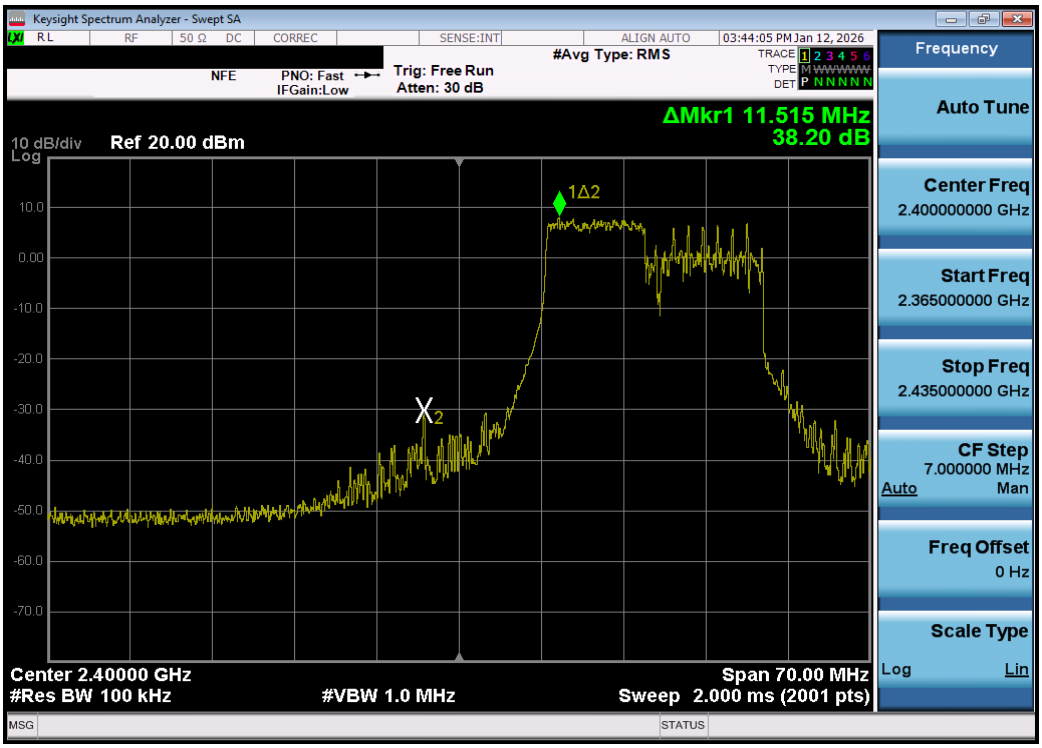
7.5.1 MIMO Antenna-1 Conducted Band Edge Emissions



Plot 7-61. Band Edge Plot MIMO ANT1 (802.11be OFDMA – 106 Tones – Ch. 1) – DUAL ANT 1



Plot 7-62. Band Edge Plot MIMO ANT1 (802.11be OFDMA – 106 Tones – Ch. 2) – DUAL ANT 1

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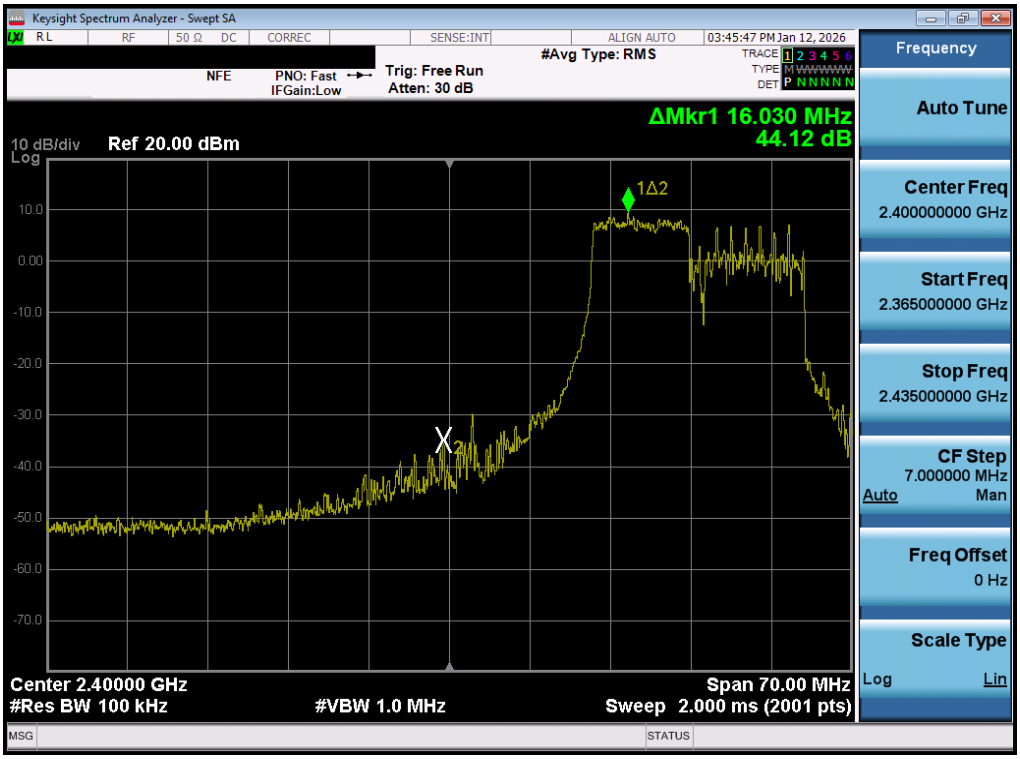
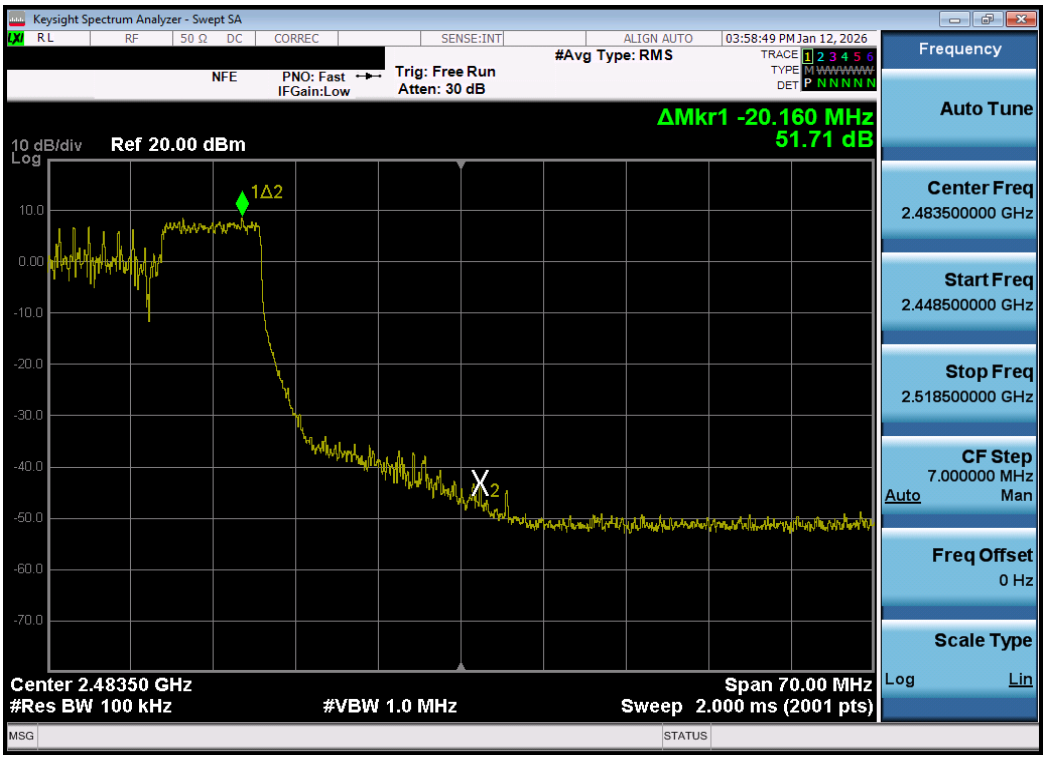


Plot 7-63. Band Edge Plot MIMO ANT1 (802.11be OFDMA – 106 Tones – Ch. 3) – DUAL ANT 1



Plot 7-64. Band Edge Plot MIMO ANT1 (802.11be OFDMA – 106 Tones – Ch. 10) – DUAL ANT 1

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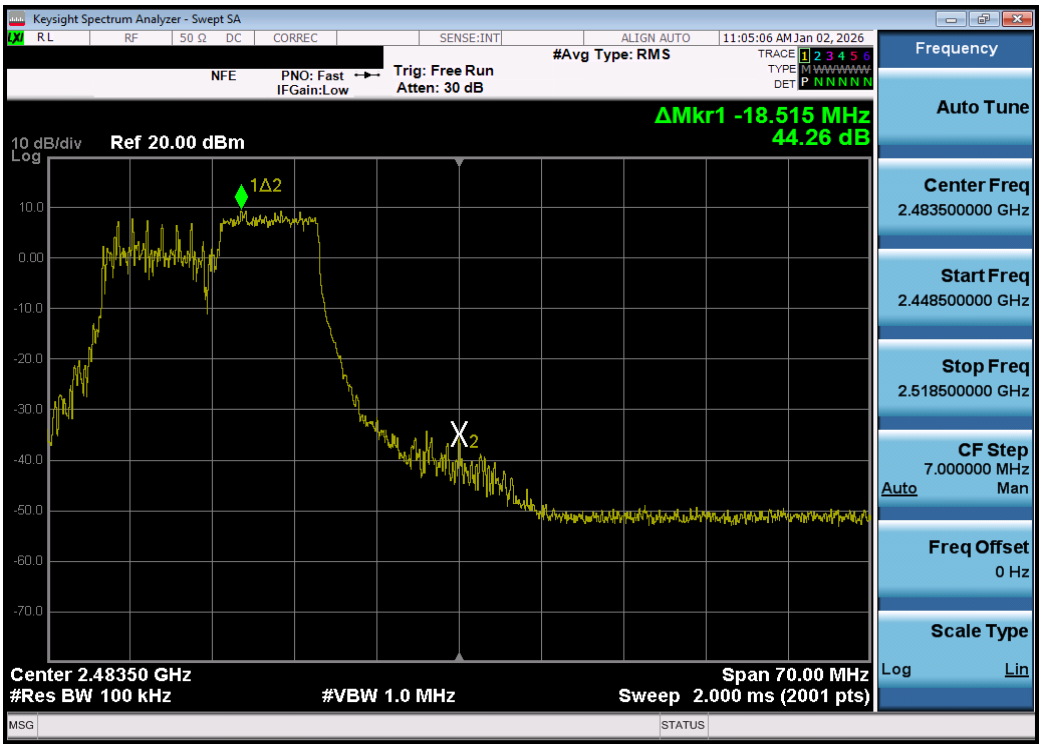
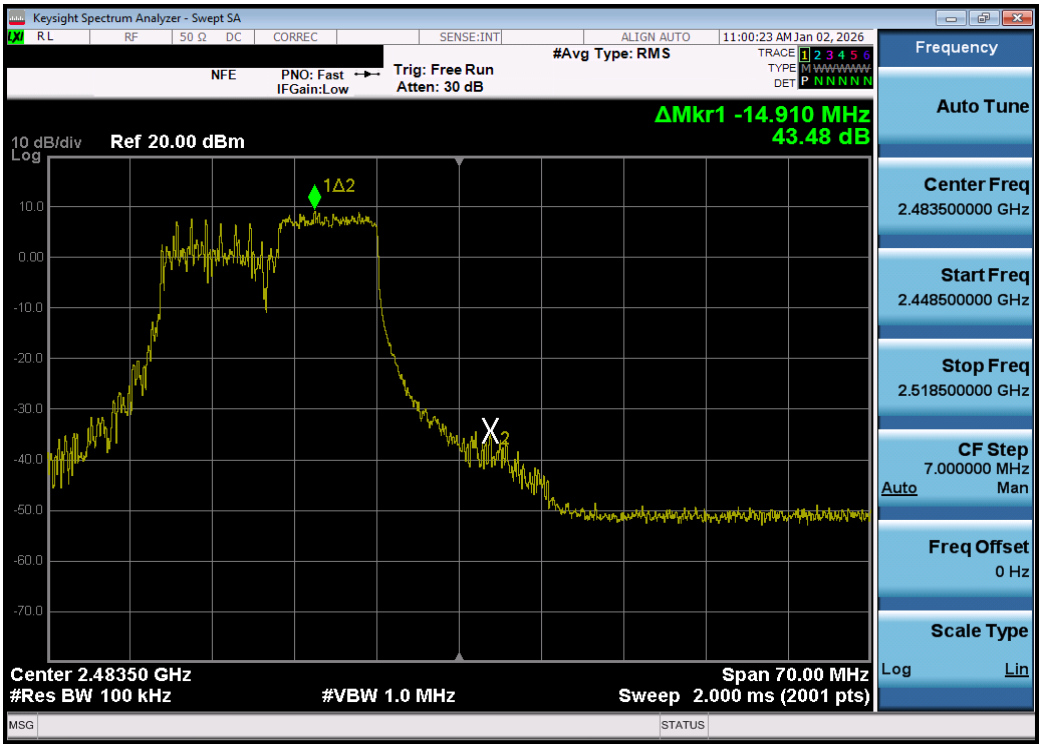


Plot 7-65. Band Edge Plot MIMO ANT1 (802.11be OFDMA – 106 Tones – Ch. 11) – DUAL ANT 1



Plot 7-66. Band Edge Plot MIMO ANT1 (802.11be OFDMA – 106 Tones – Ch. 12) – DUAL ANT 1

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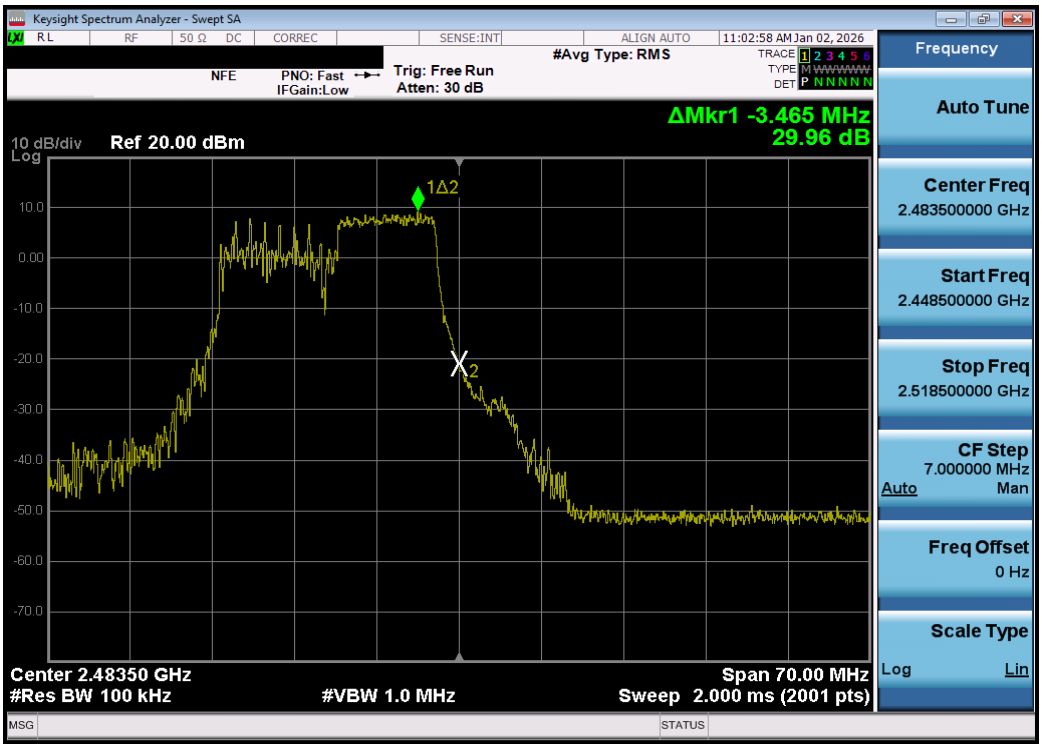
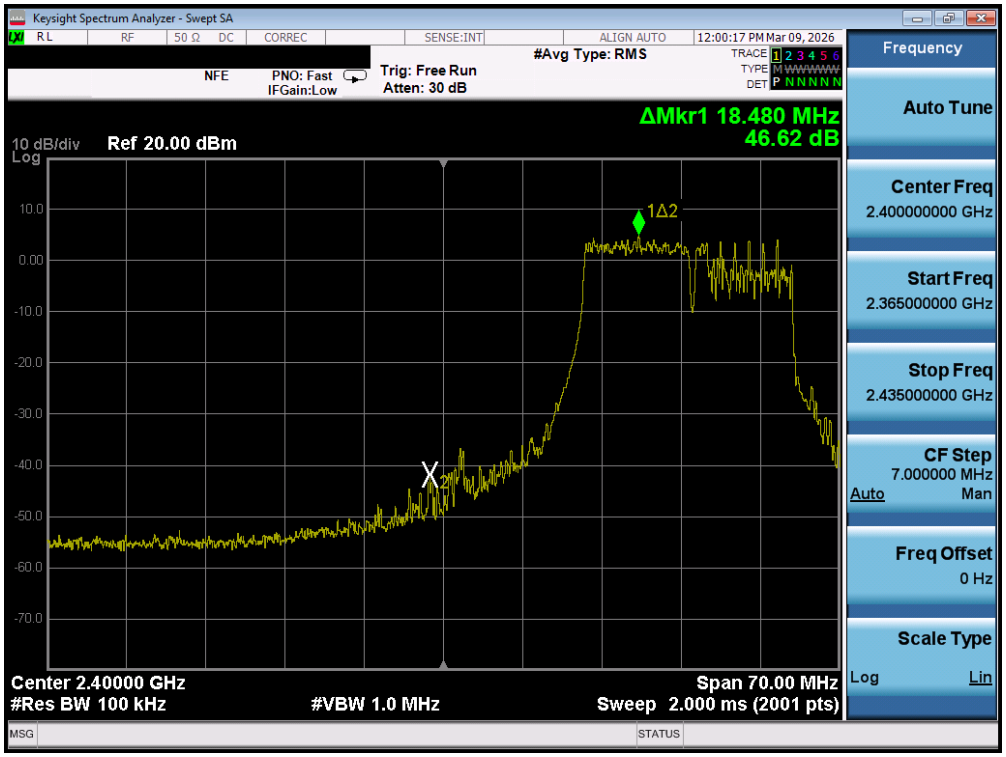


Plot 7-67. Band Edge Plot MIMO ANT1 (802.11be OFDMA – 106 Tones – Ch. 13) – DUAL ANT 1



Plot 7-68. Band Edge Plot MIMO ANT1 (802.11be OFDMA – 106 + 26 Tones – Ch. 1) – DUAL ANT 1

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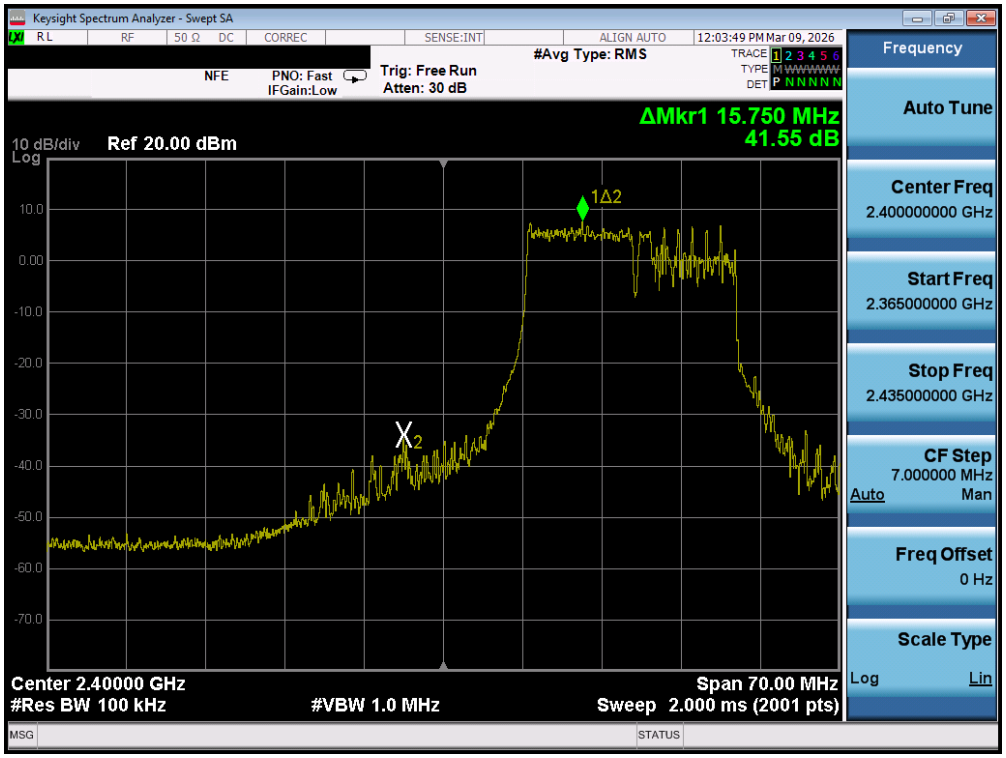
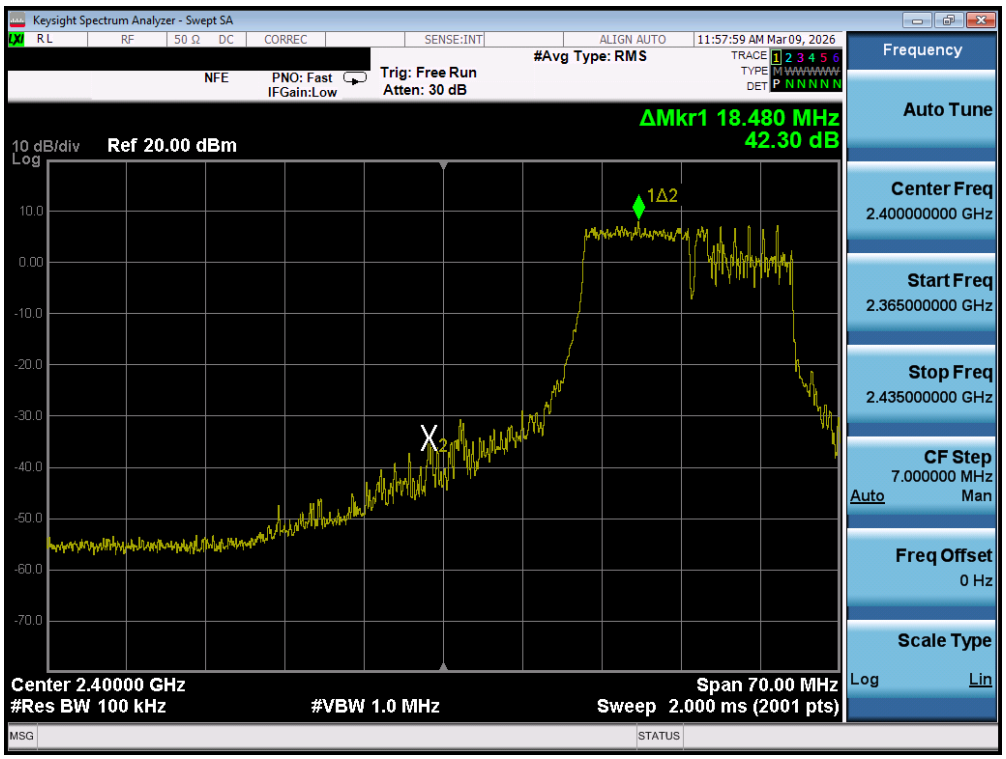


Plot 7-69. Band Edge Plot MIMO ANT1 (802.11be OFDMA – 106 + 26 Tones – Ch. 2) – DUAL ANT 1



Plot 7-70. Band Edge Plot MIMO ANT1 (802.11be OFDMA – 106 + 26 Tones – Ch. 3) – DUAL ANT 1

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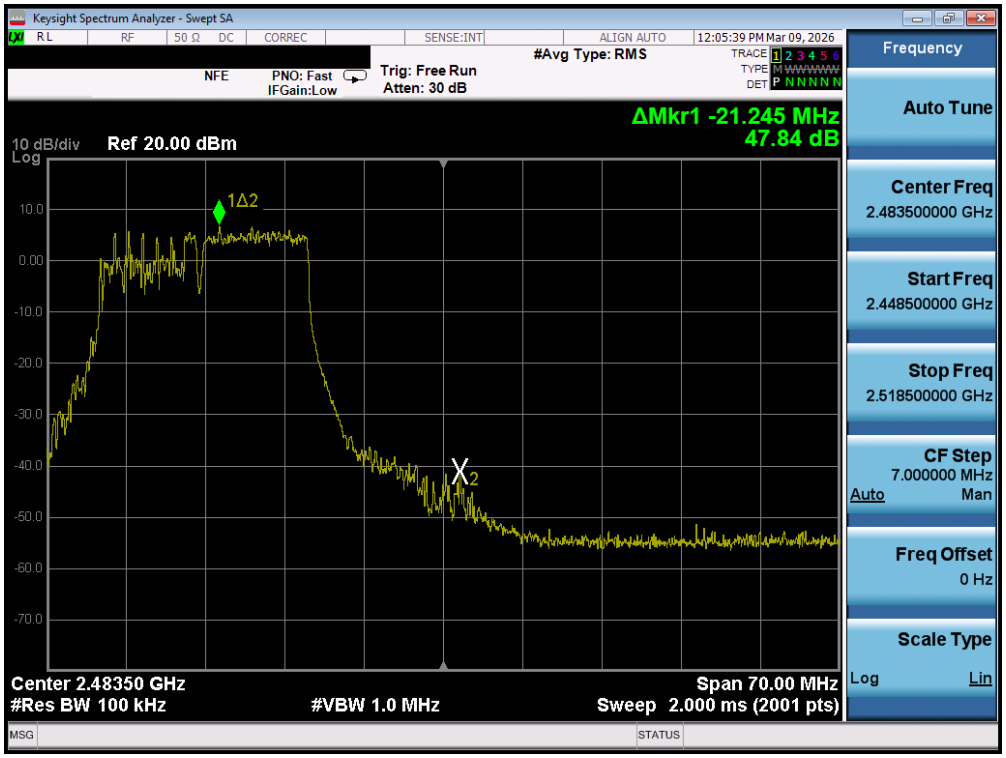
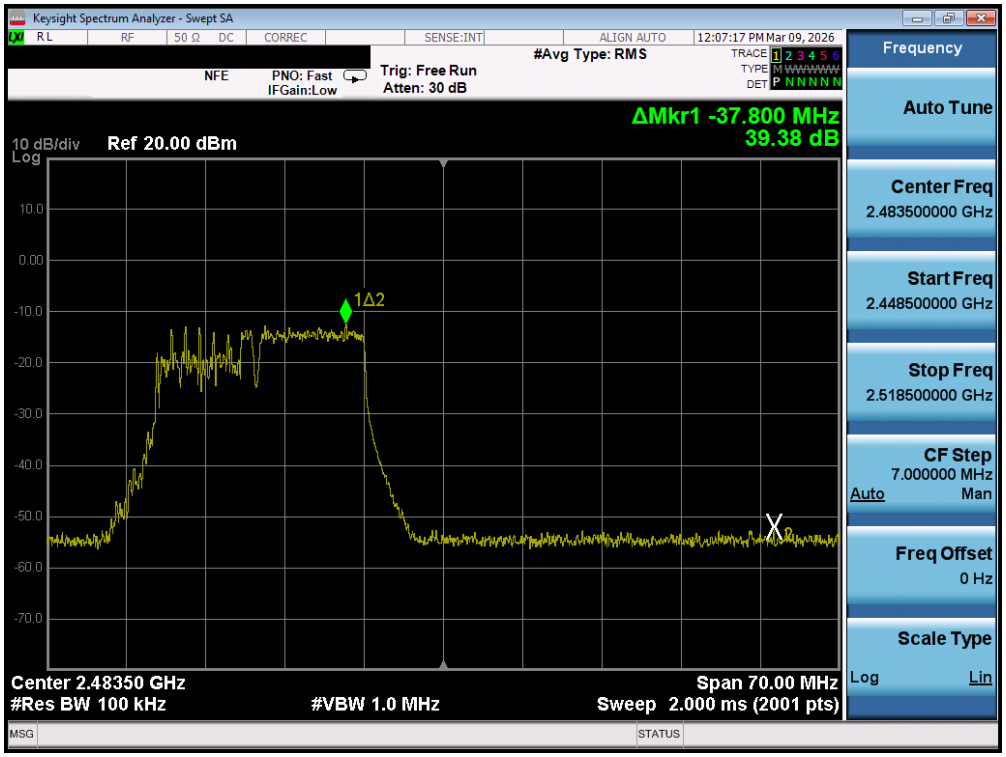


Plot 7-71. Band Edge Plot MIMO ANT1 (802.11be OFDMA – 106 + 26 Tones – Ch. 11) – DUAL ANT 1



Plot 7-72. Band Edge Plot MIMO ANT1 (802.11be OFDMA – 106 + 26 Tones – Ch. 12) – DUAL ANT 1

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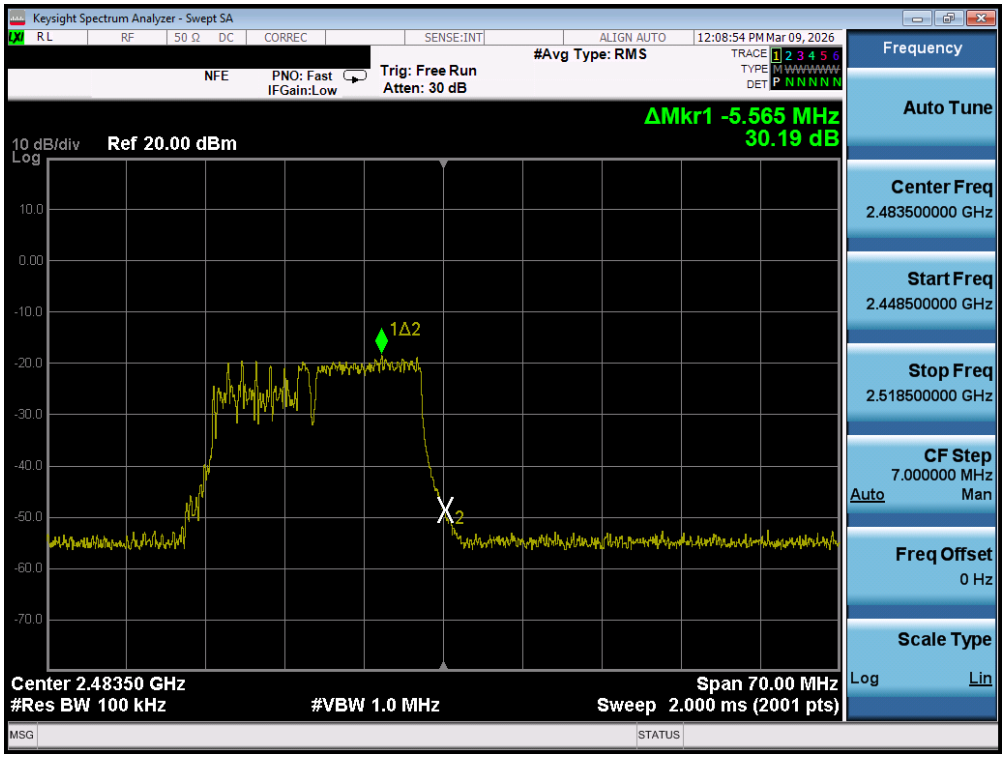
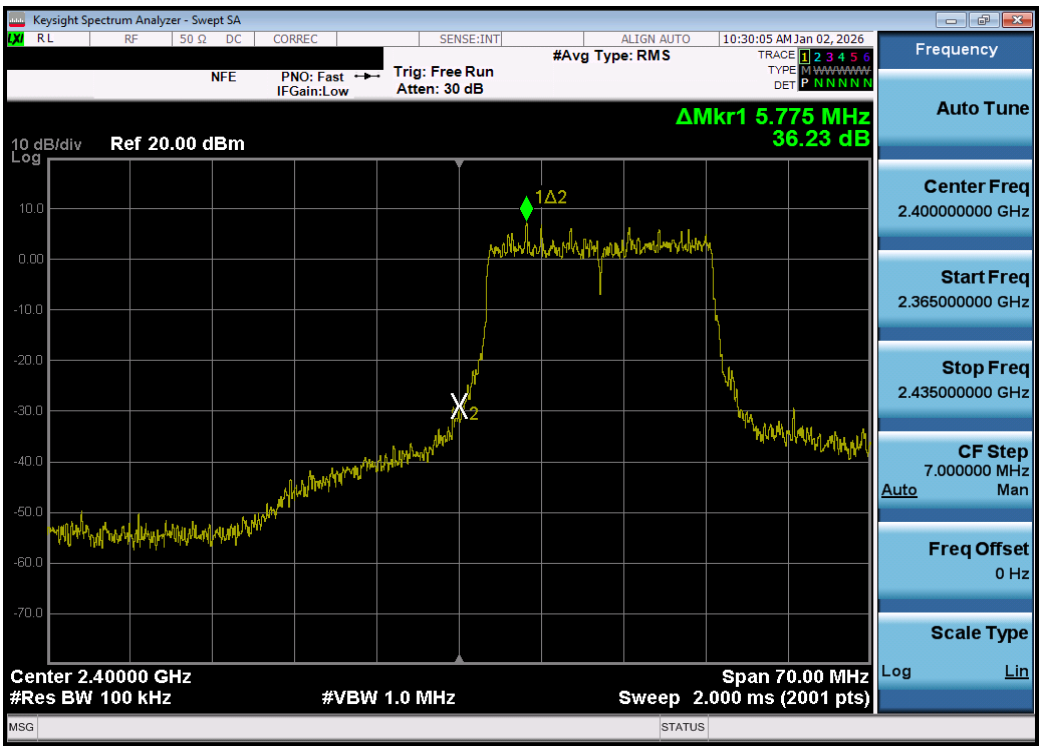


Plot 7-73. Band Edge Plot MIMO ANT1 (802.11be OFDMA – 106 + 26 Tones – Ch. 13) – DUAL ANT 1



Plot 7-74. Band Edge Plot MIMO ANT1 (802.11be OFDMA – 242 Tones – Ch. 1) – DUAL ANT 1

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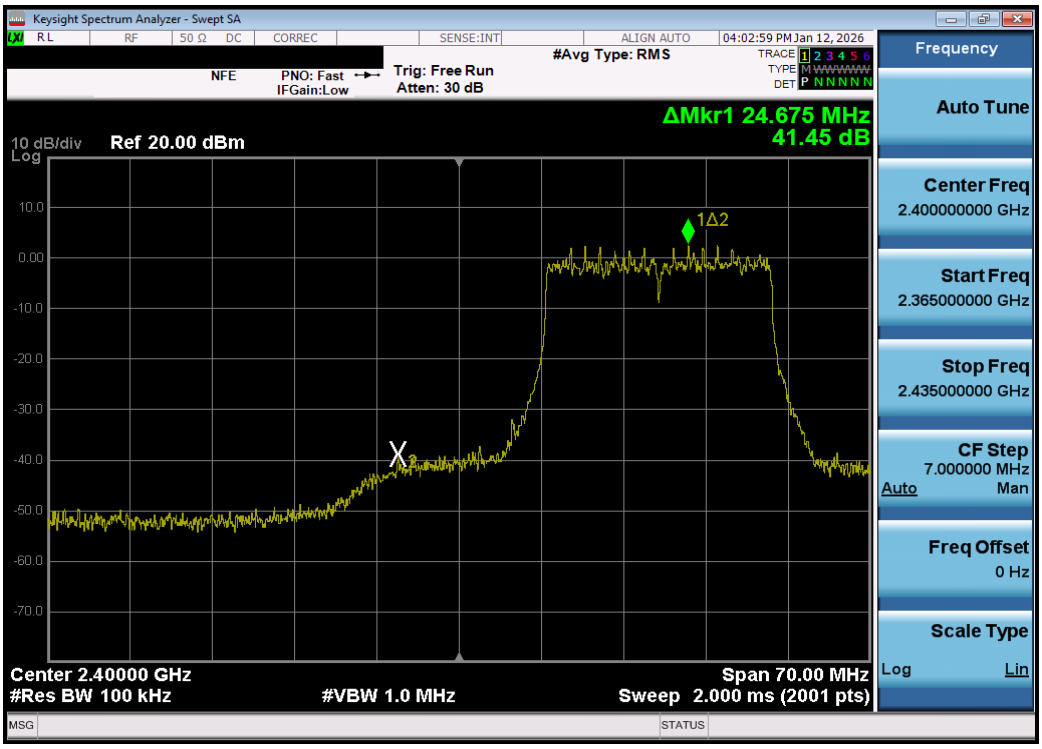
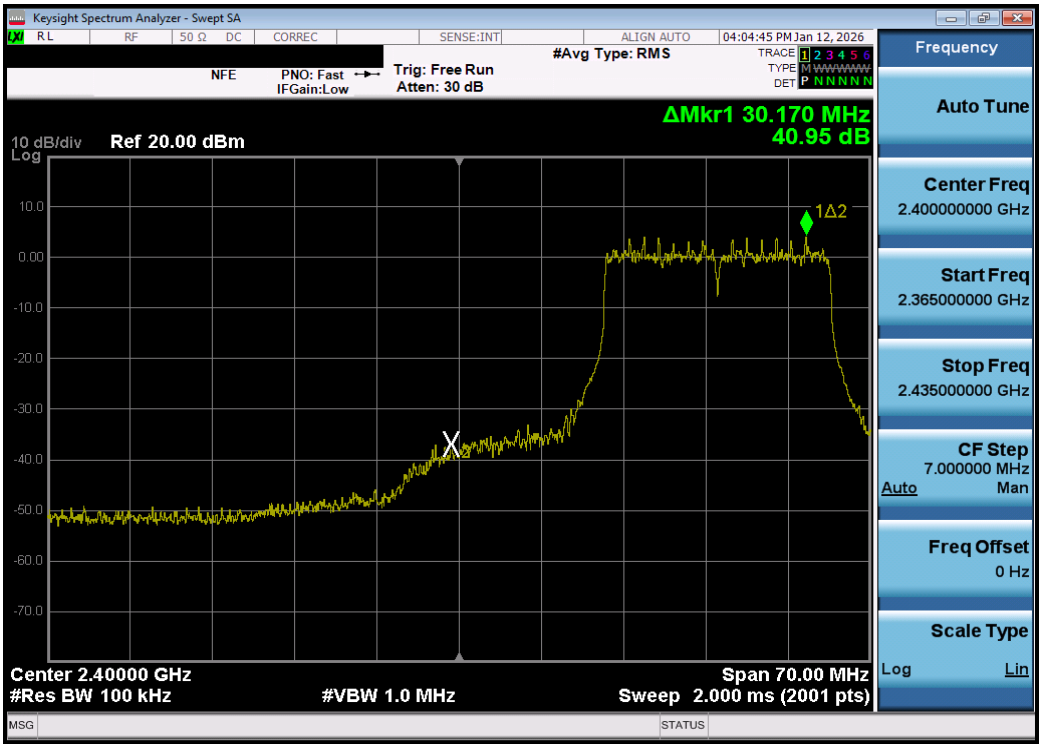


Plot 7-75. Band Edge Plot MIMO ANT1 (802.11be OFDMA – 242 Tones – Ch. 2) – DUAL ANT 1



Plot 7-76. Band Edge Plot MIMO ANT1 (802.11be OFDMA – 242 Tones – Ch. 3) – DUAL ANT 1

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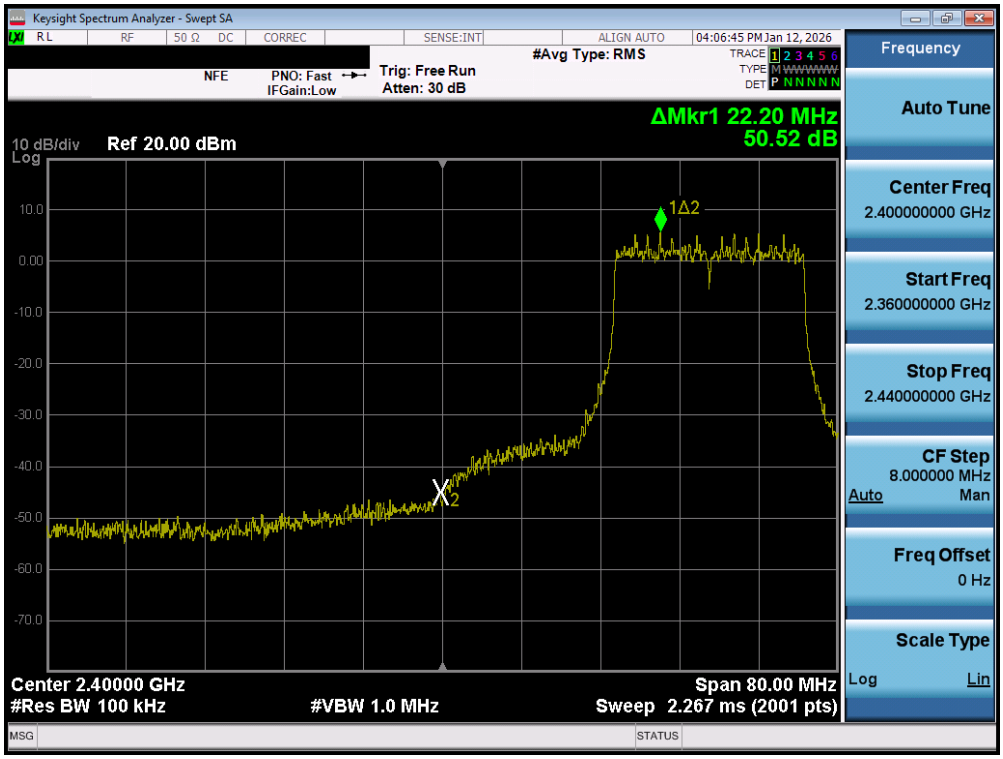
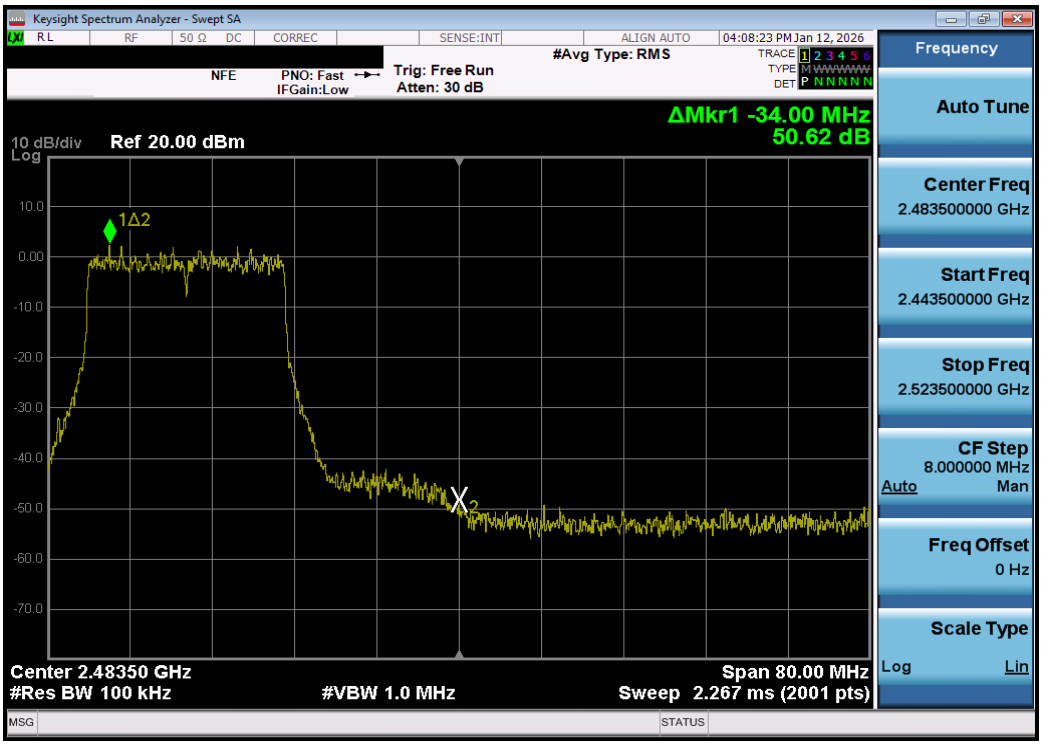


Plot 7-77. Band Edge Plot MIMO ANT1 (802.11be OFDMA – 242 Tones – Ch. 4) – DUAL ANT 1



Plot 7-78. Band Edge Plot MIMO ANT1 (802.11be OFDMA – 242 Tones – Ch. 10) – DUAL ANT 1

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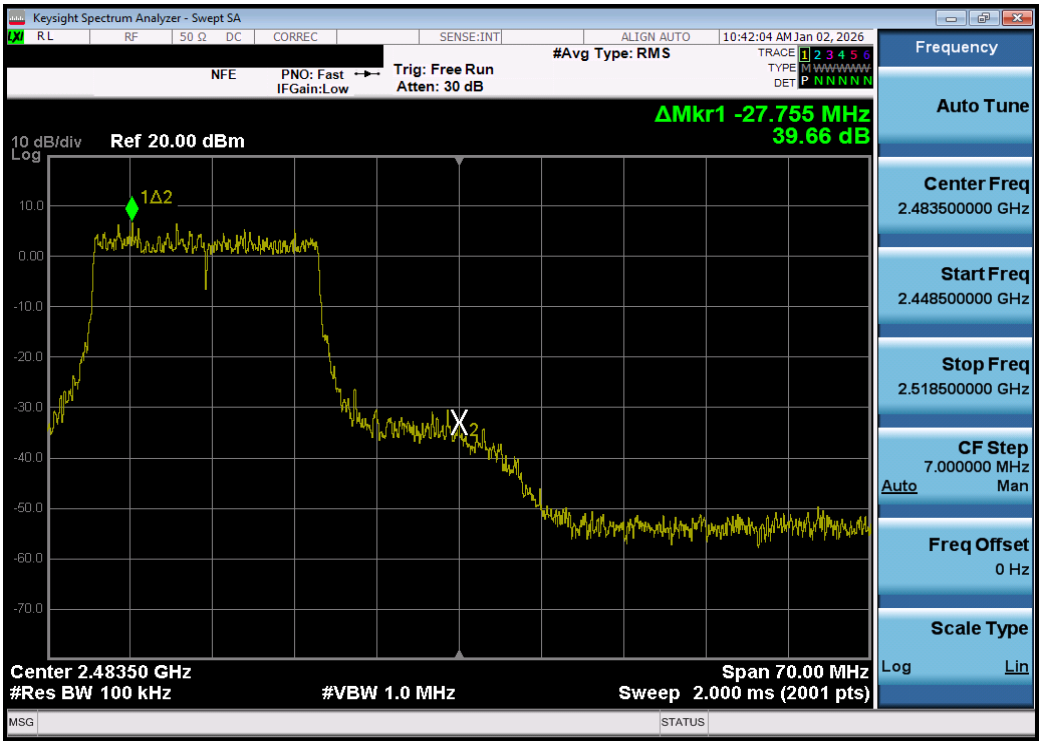
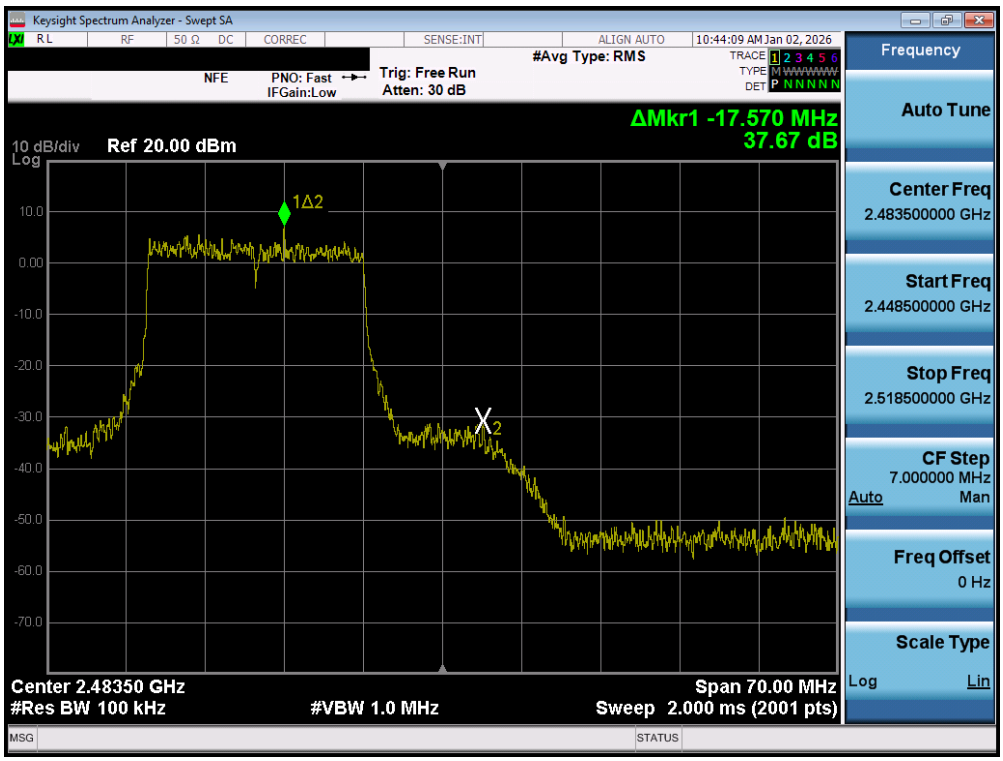


Plot 7-79. Band Edge Plot MIMO ANT1 (802.11be OFDMA – 242 Tones – Ch. 11) – DUAL ANT 1



Plot 7-80. Band Edge Plot MIMO ANT1 (802.11be OFDMA – 242 Tones – Ch. 12) – DUAL ANT 1

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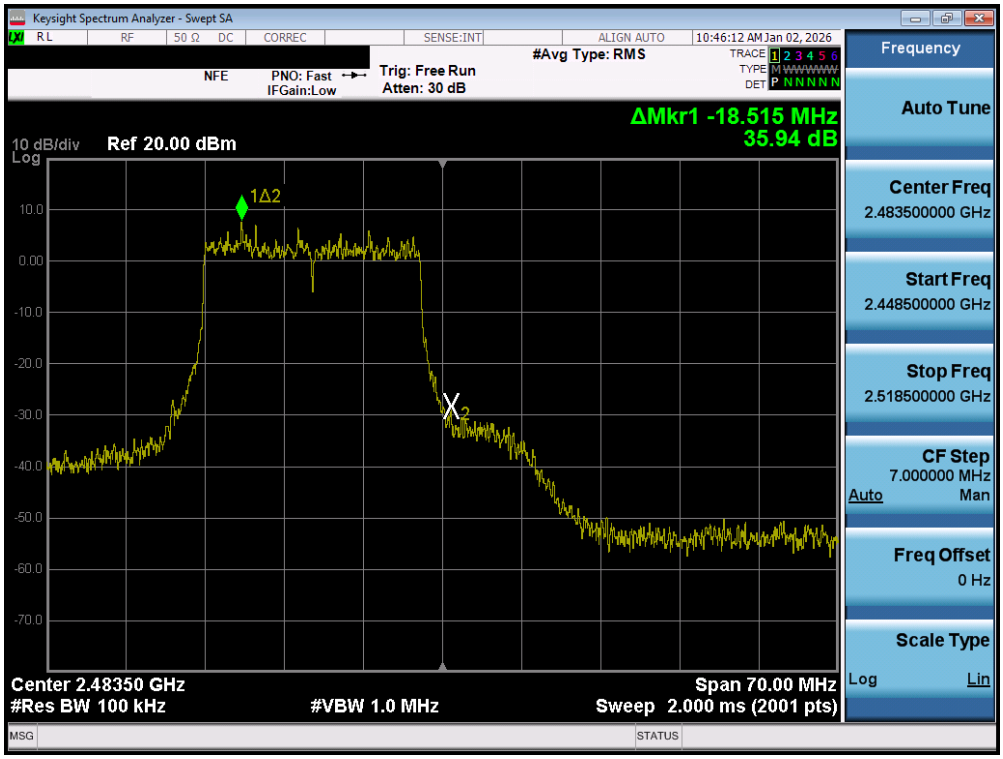
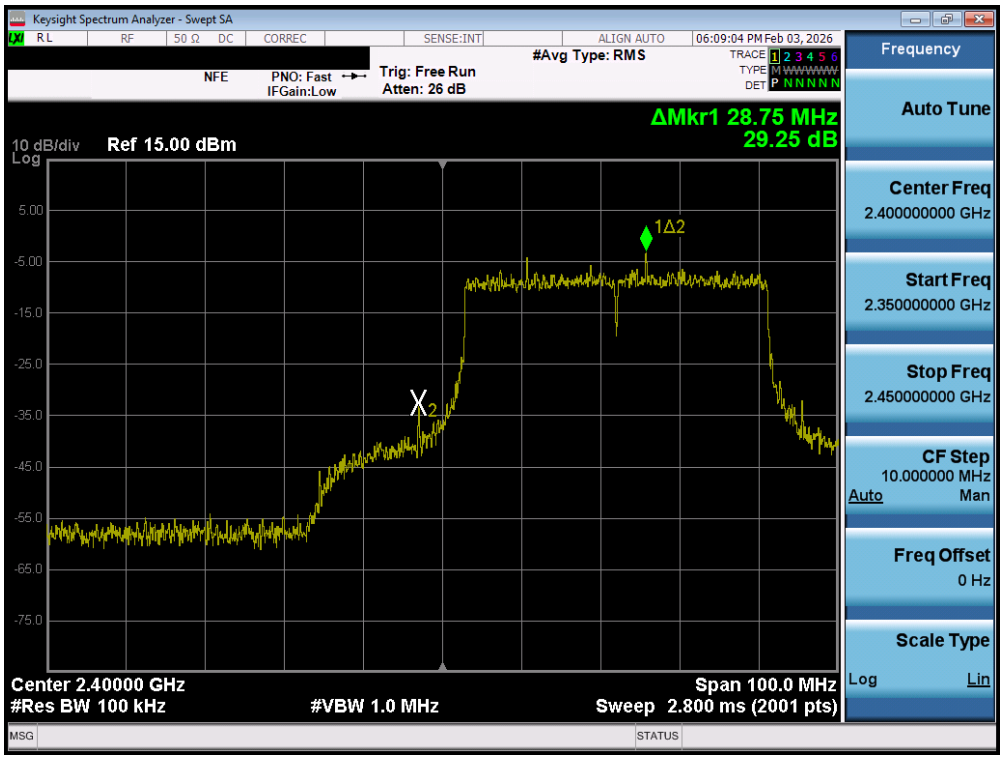


Plot 7-81. Band Edge Plot MIMO ANT1 (802.11be OFDMA – 242 Tones – Ch. 13) – DUAL ANT 1



Plot 7-82. Band Edge Plot MIMO ANT1 (802.11be OFDMA – 484 Tones – Ch. 3) – DUAL ANT 1

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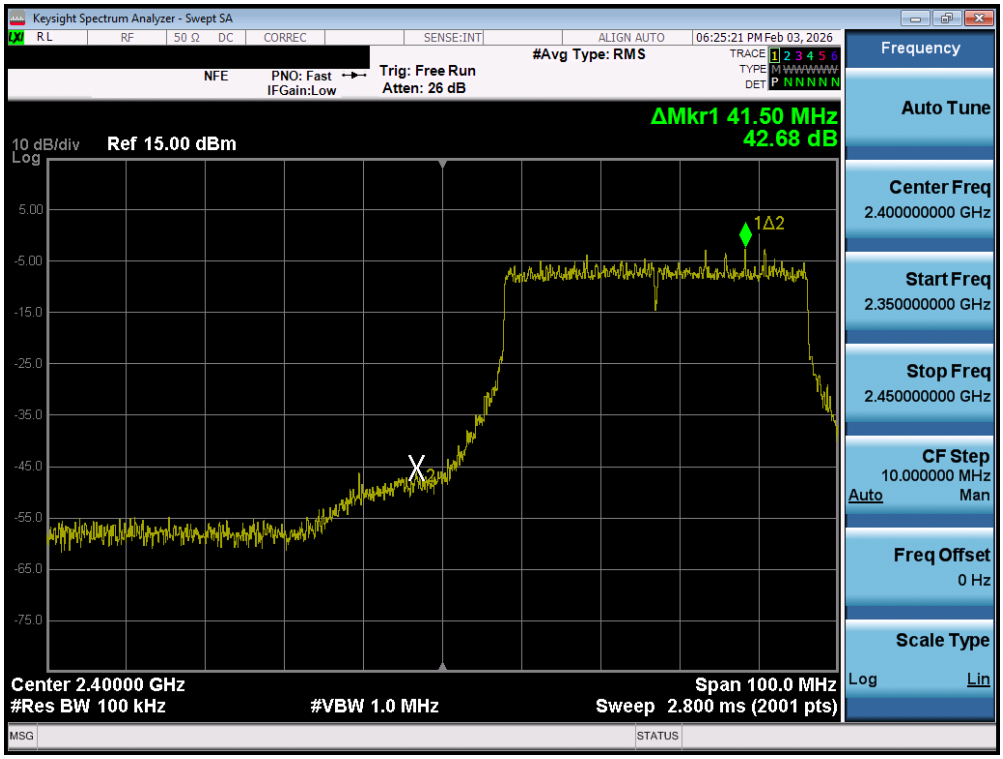
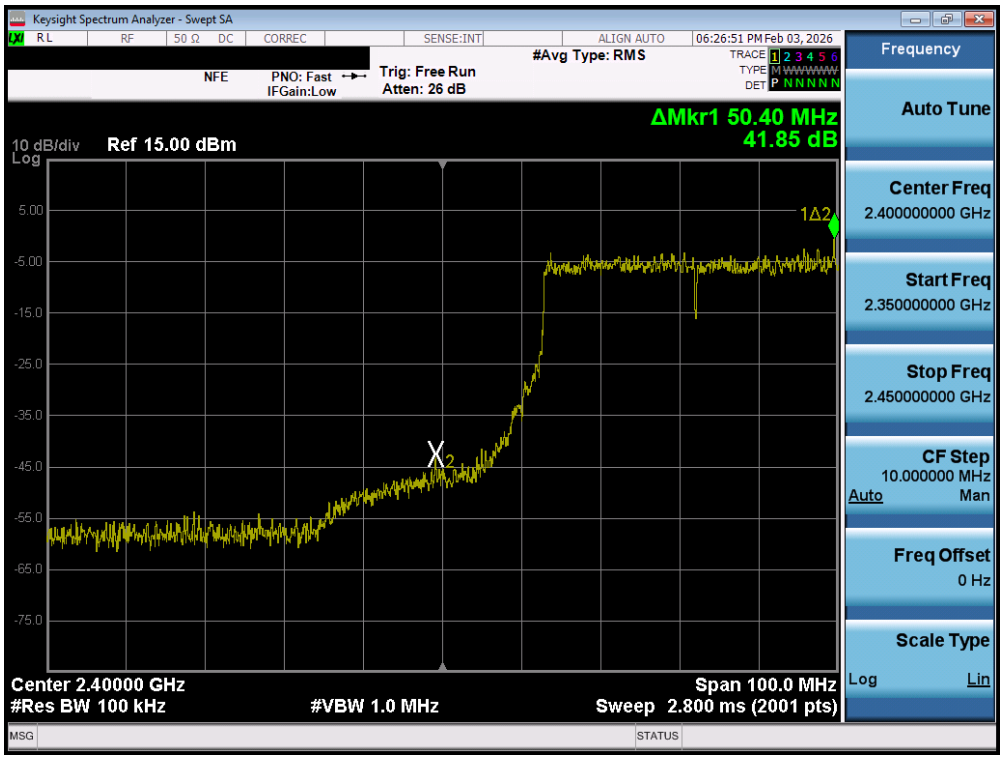


Plot 7-83. Band Edge Plot MIMO ANT1 (802.11be OFDMA – 484 Tones – Ch. 4) – DUAL ANT 1



Plot 7-84. Band Edge Plot MIMO ANT1 (802.11be OFDMA – 484 Tones – Ch. 5) – DUAL ANT 1

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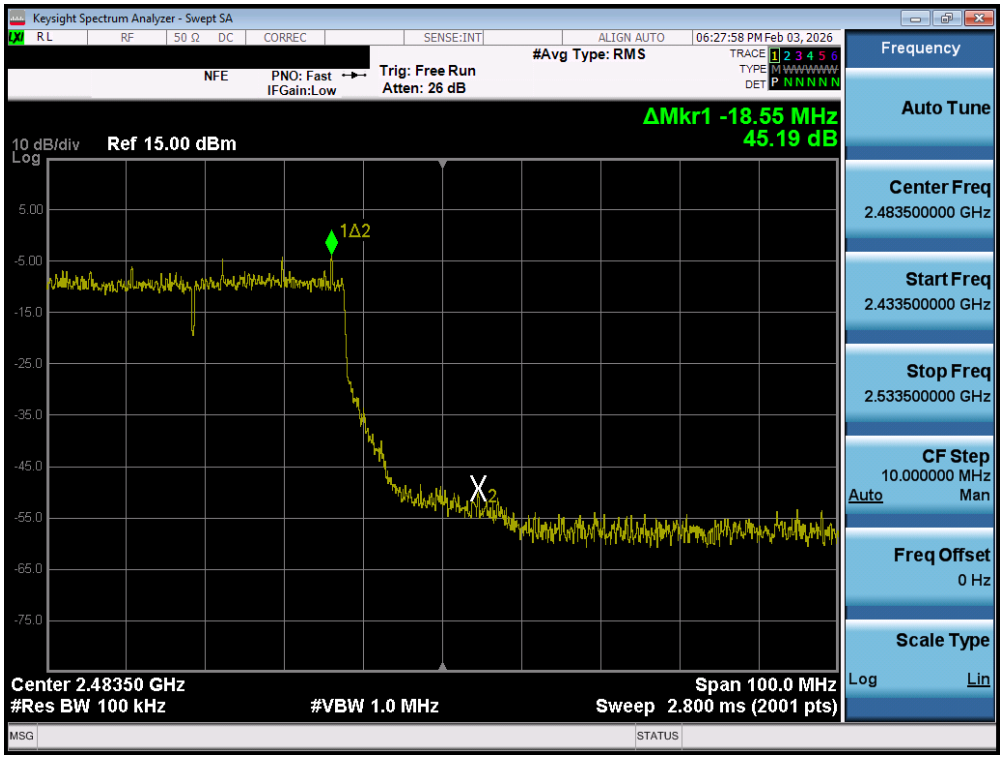
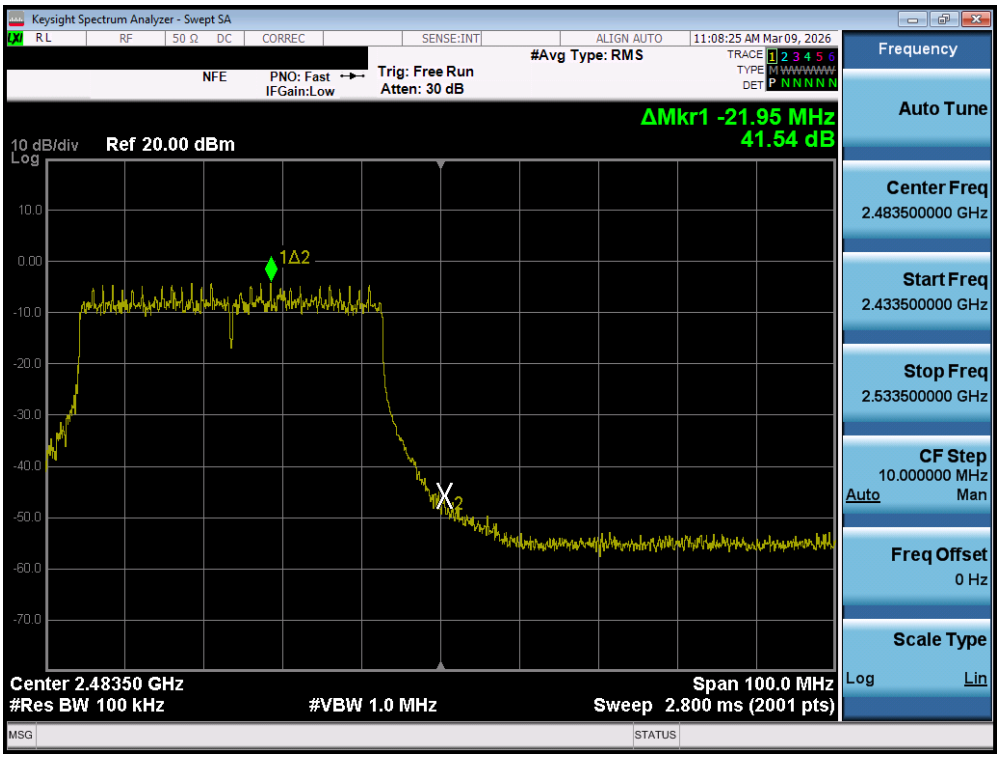


Plot 7-85. Band Edge Plot MIMO ANT1 (802.11be OFDMA – 484 Tones – Ch. 9) – DUAL ANT 1



Plot 7-86. Band Edge Plot MIMO ANT1 (802.11be OFDMA – 484 Tones – Ch. 10) – DUAL ANT 1

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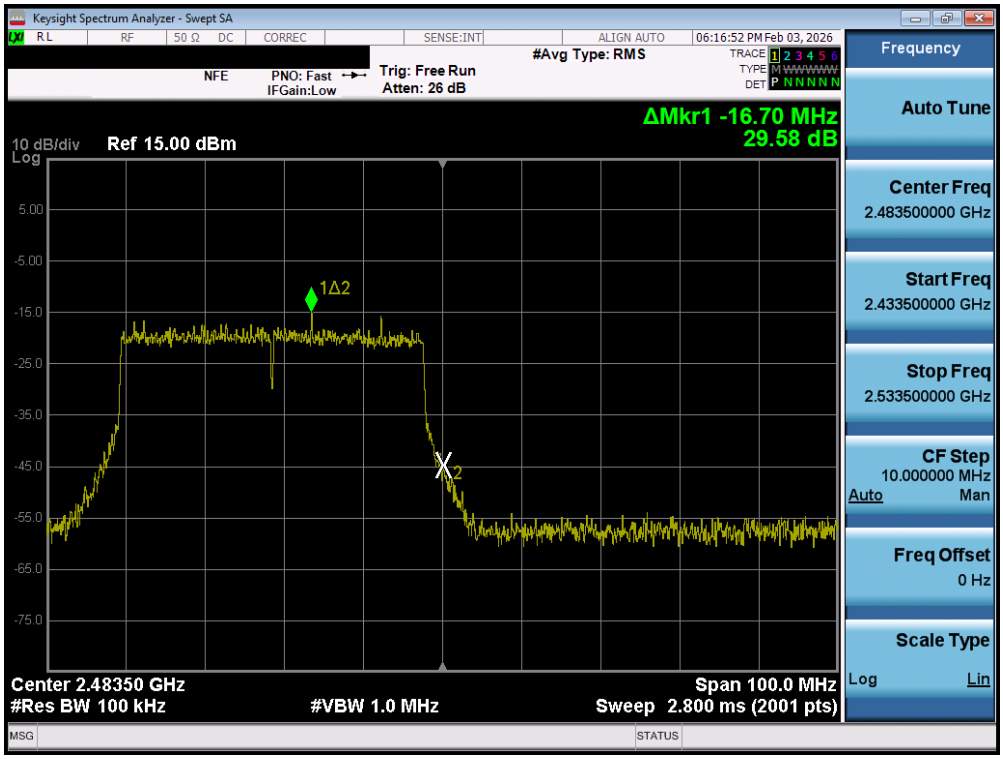

Plot 7-87. Band Edge Plot MIMO ANT1 (802.11be OFDMA – 484 Tones – Ch. 11) – DUAL ANT 1

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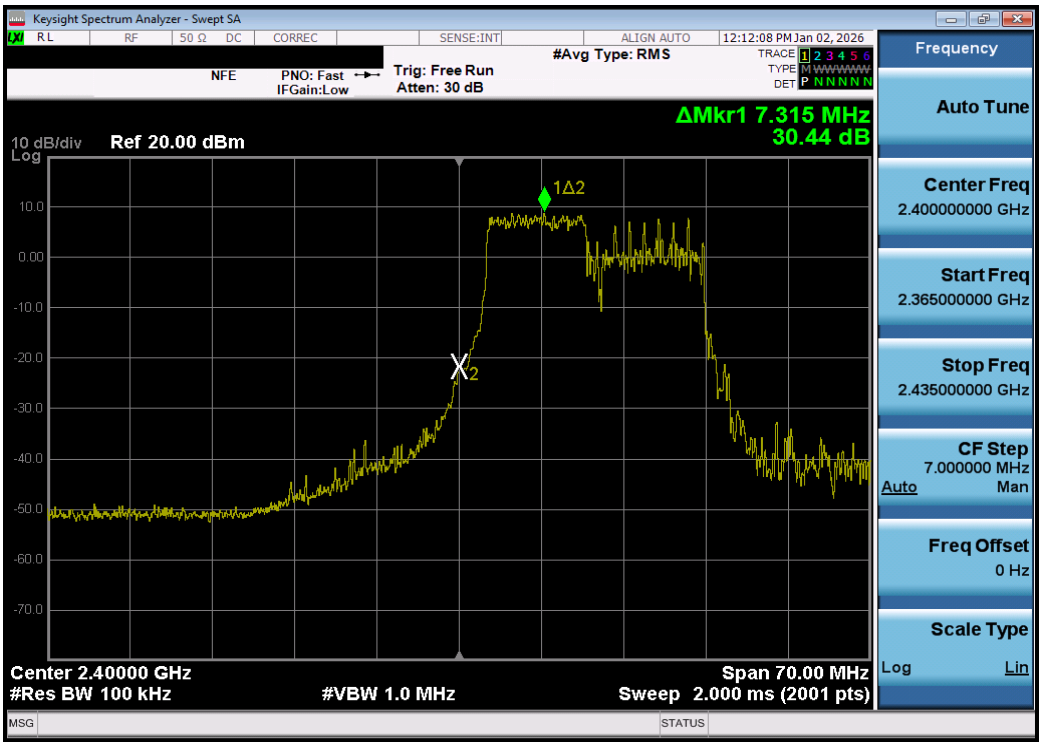
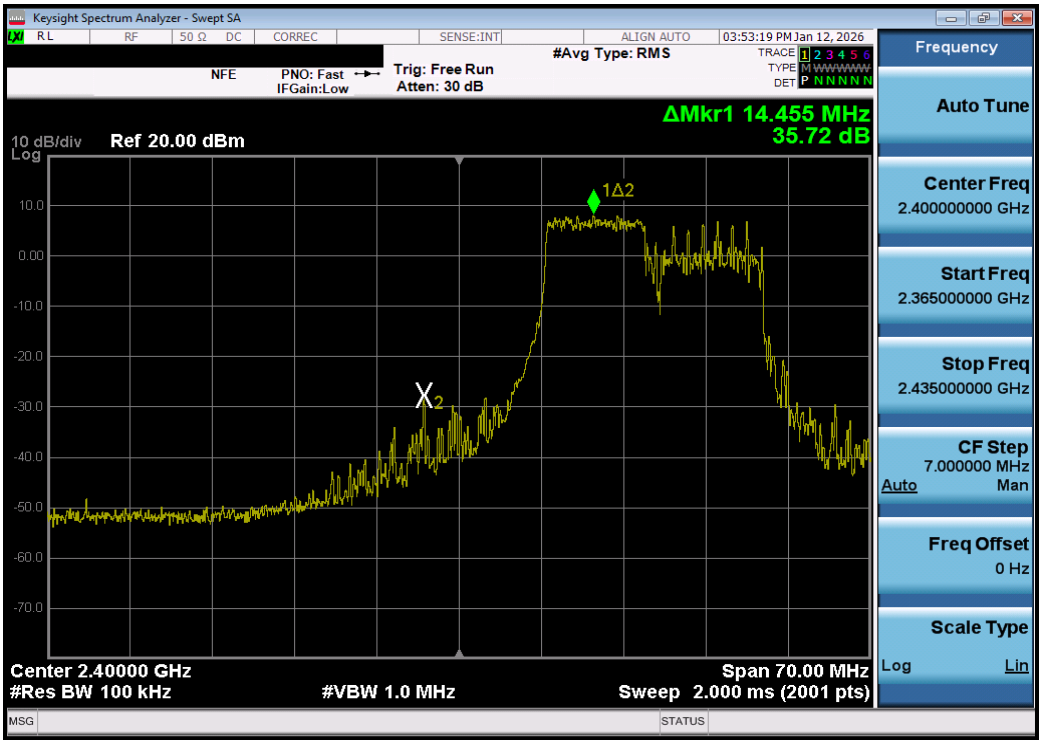
7.5.2 MIMO Antenna-2 Conducted Band Edge Emissions



Plot 7-88. Band Edge Plot MIMO ANT2 (802.11be OFDMA – 106 Tones – Ch. 1) – DUAL ANT 2



Plot 7-89. Band Edge Plot MIMO ANT2 (802.11be OFDMA – 106 Tones – Ch. 2) – DUAL ANT 2

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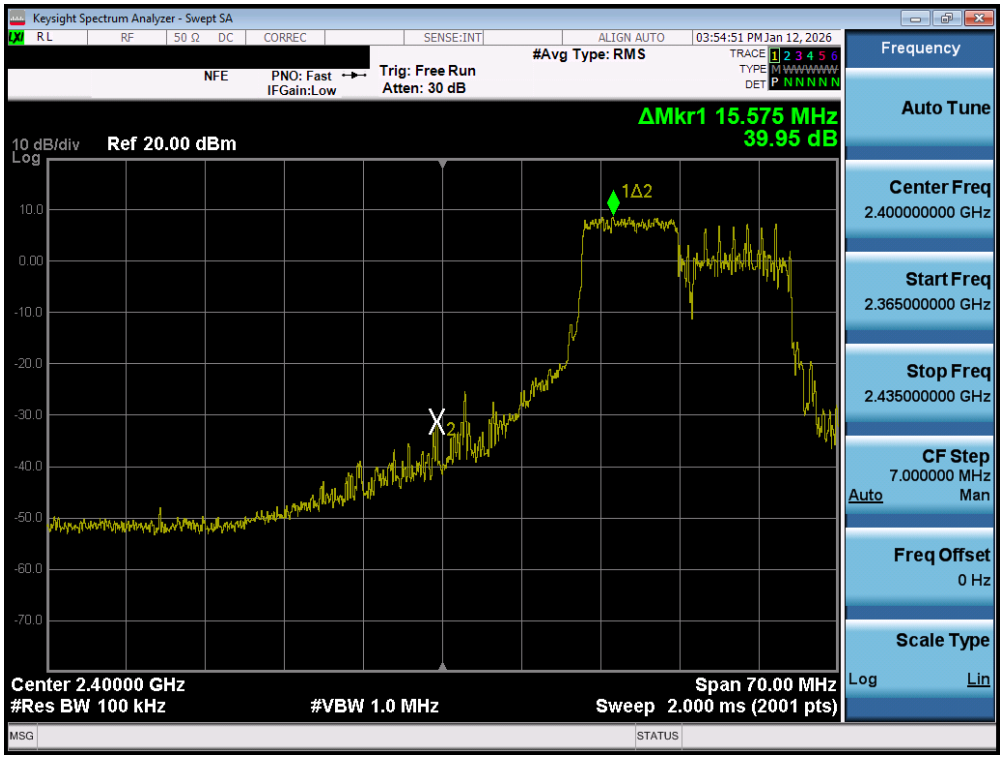
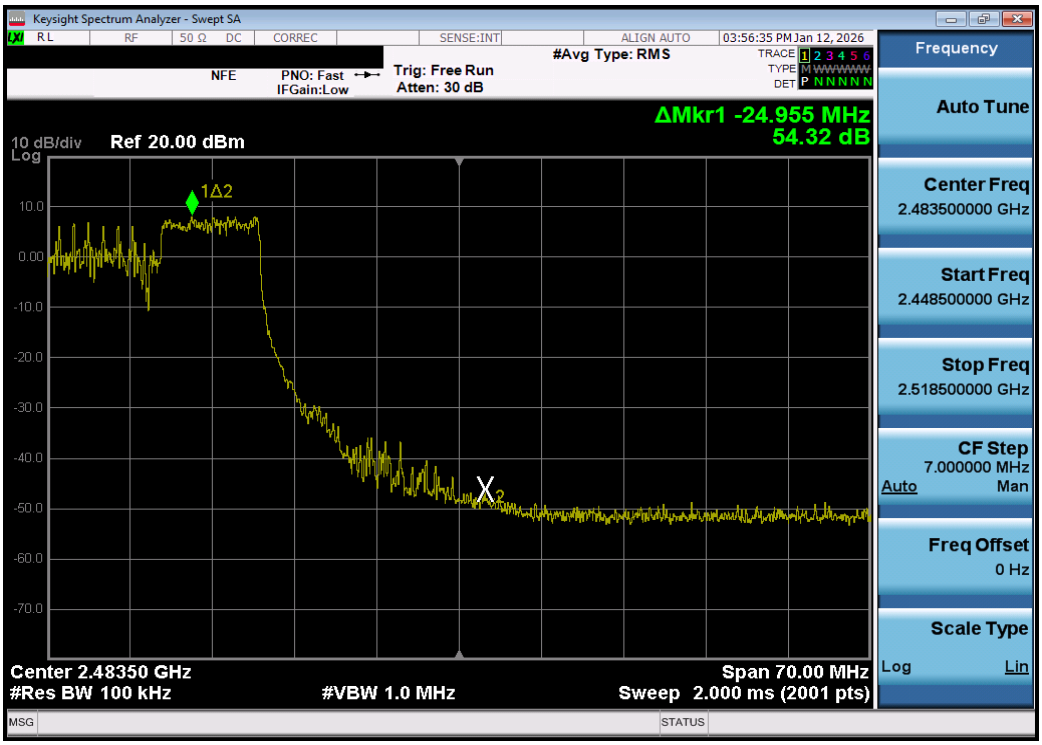


Plot 7-90. Band Edge Plot MIMO ANT2 (802.11be OFDMA – 106 Tones – Ch. 3) – DUAL ANT 2



Plot 7-91. Band Edge Plot MIMO ANT2 (802.11be OFDMA – 106 Tones – Ch. 10) – DUAL ANT 2

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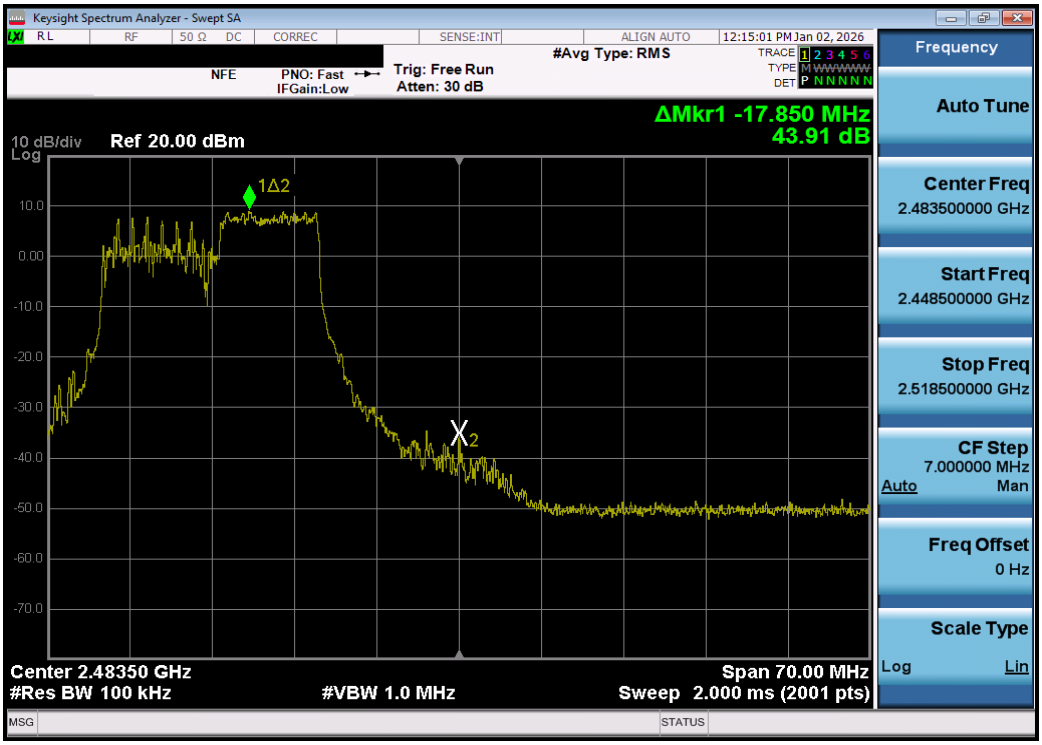
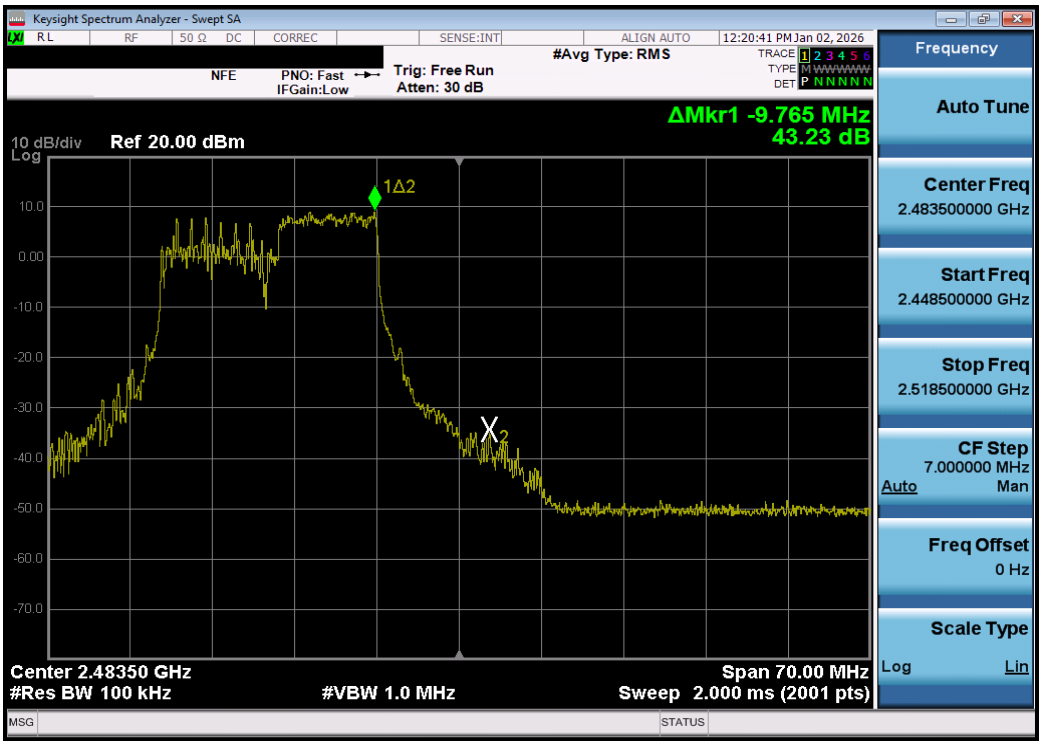


Plot 7-92. Band Edge Plot MIMO ANT2 (802.11be OFDMA – 106 Tones – Ch. 11) – DUAL ANT 2



Plot 7-93. Band Edge Plot MIMO ANT2 (802.11be OFDMA – 106 Tones – Ch. 12) – DUAL ANT 2

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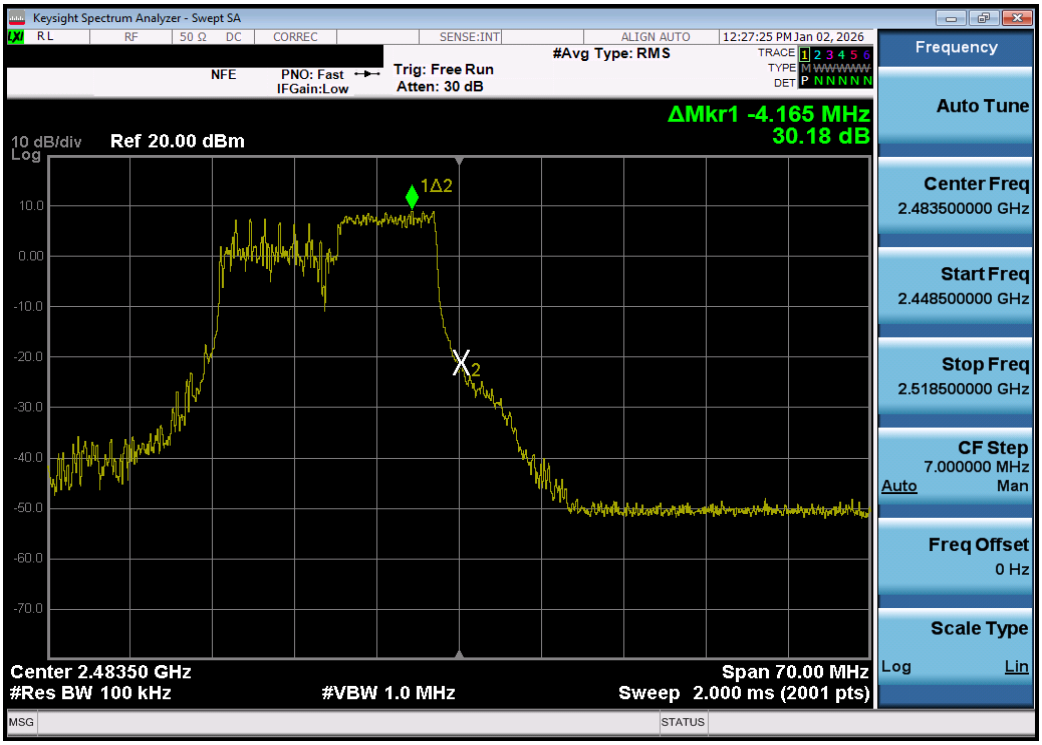
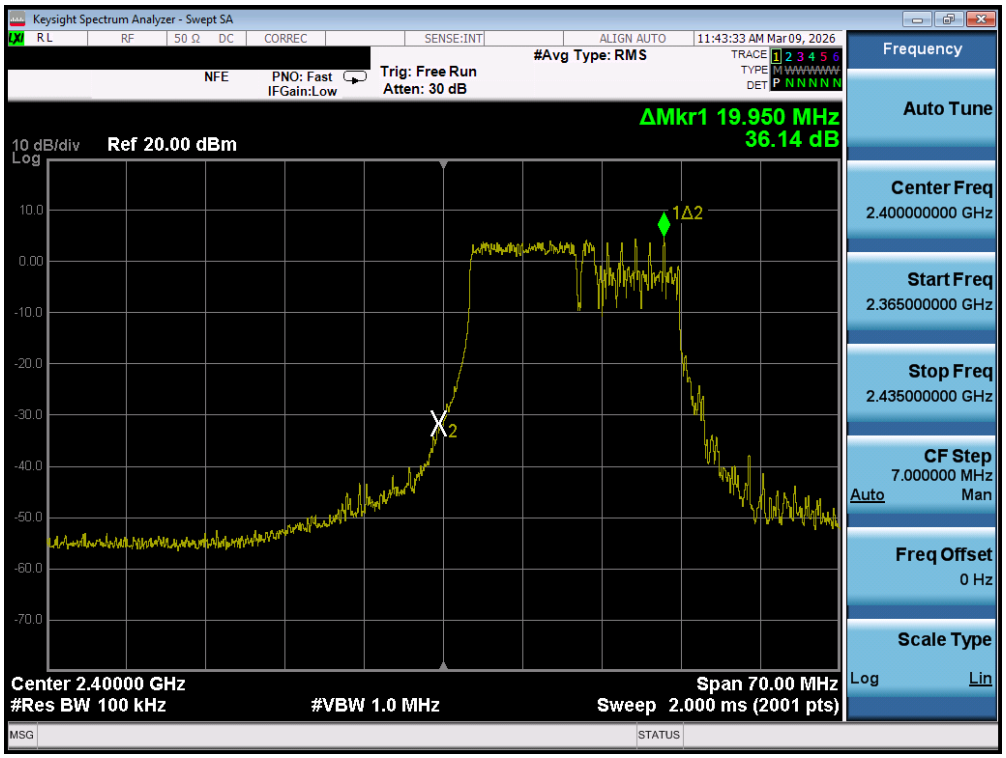


Plot 7-94. Band Edge Plot MIMO ANT2 (802.11be OFDMA – 106 Tones – Ch. 13) – DUAL ANT 2



Plot 7-95. Band Edge Plot MIMO ANT1 (802.11be OFDMA – 106 + 26 Tones – Ch. 1) – DUAL ANT 2

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