

FCC TEST REPORT

Product Name: Hybrid Full-Touch Handheld computer

Trade Mark: 

Model No.: X40

Add. Model No.: N/A

Report Number: 26051324500RFC-5

Test Standards: FCC 47 CFR Part 15 Subpart E

FCC ID: VTVX40

Test Result: PASS

Date of Issue: September 30, 2026

Prepared for:

TSC Auto ID Technology Co., Ltd.

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Prepared by:

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UTTR-RF-FCCPART15.407-V2.0

Version

Version No.	Date	Description
V1.0	September 30, 2026	Original



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1. GENERAL INFORMATION

1.1 CLIENT INFORMATION

Applicant:	TSC Auto ID Technology Co., Ltd.
Address of Applicant:	9F., No. 95, Minquan Rd. Xindian Dist., New Taipei City, Taiwan
Manufacturer:	TSC Auto ID Technology Co., Ltd.
Address of Manufacturer:	9F., No. 95, Minquan Rd. Xindian Dist., New Taipei City, Taiwan

1.2 EUT INFORMATION

1.2.1 General Description of EUT

Product Name:	Hybrid Full-Touch Handheld computer		
Model No.:	X40		
Trade Mark:			
DUT Stage:	Identical Prototype		
EUT Supports Function: (Provided by the customer)	GSM Bands:	GSM 850/ PCS 1900	
	UTRA Bands:	Band II/ Band IV/ Band V	
	E-UTRA Bands:	FDD Band 2/ 4/ 5/ 7/ 12/ 13/ 14/ 17/ 25/ 26/ 66/ 71 TDD Band 38/ 41 / 48	
	NR Bands:	FDD n2/ 5/ 7/ 12/ 13/ 14/ 25/ 26/ 66/ 71 TDD n38/ 41/ 48/ 77/ 78	
	2.4 GHz ISM Band:	IEEE 802.11b/g/n/ax	
		Bluetooth V5.3	
		2 nd BLE	
	U-NII 5 GHz Bands:	5 150 - 5 250 MHz	IEEE 802.11a/n/ac/ax
		5 250 - 5 350 MHz	IEEE 802.11a/n/ac/ax
		5 470 - 5 725 MHz	IEEE 802.11a/n/ac/ax
		5 725 - 5 850 MHz	IEEE 802.11a/n/ac/ax
	U-NII 6 GHz Bands:	5 925 - 6 425 MHz	IEEE 802.11ax
		6 425 - 6 525 MHz	IEEE 802.11ax
		6 525 - 6 875 MHz	IEEE 802.11ax
		6 875 - 7 125 MHz	IEEE 802.11ax
RNSS Bands:	1559 - 1610 MHz	GPS/ Galileo/ GLONASS/ BDS	
	1164 - 1300 MHz	GPS/ Galileo	
RFID:	902 - 928 MHz		
UWB:	6.0-8.5GHz		
NFC:	13.553 MHz to 13.567 MHz		
Software Version:	R2.00 (Provided by the customer)		
Hardware Version:	REV0.3 (Provided by the customer)		
Sample Received Date:	May 13, 2026		
Sample Tested Date:	May 18, 2026 to August 4, 2026		
Remark:	The above EUT's information was provided by customer. Please refer to the specifications or user's manual for more detailed description.		

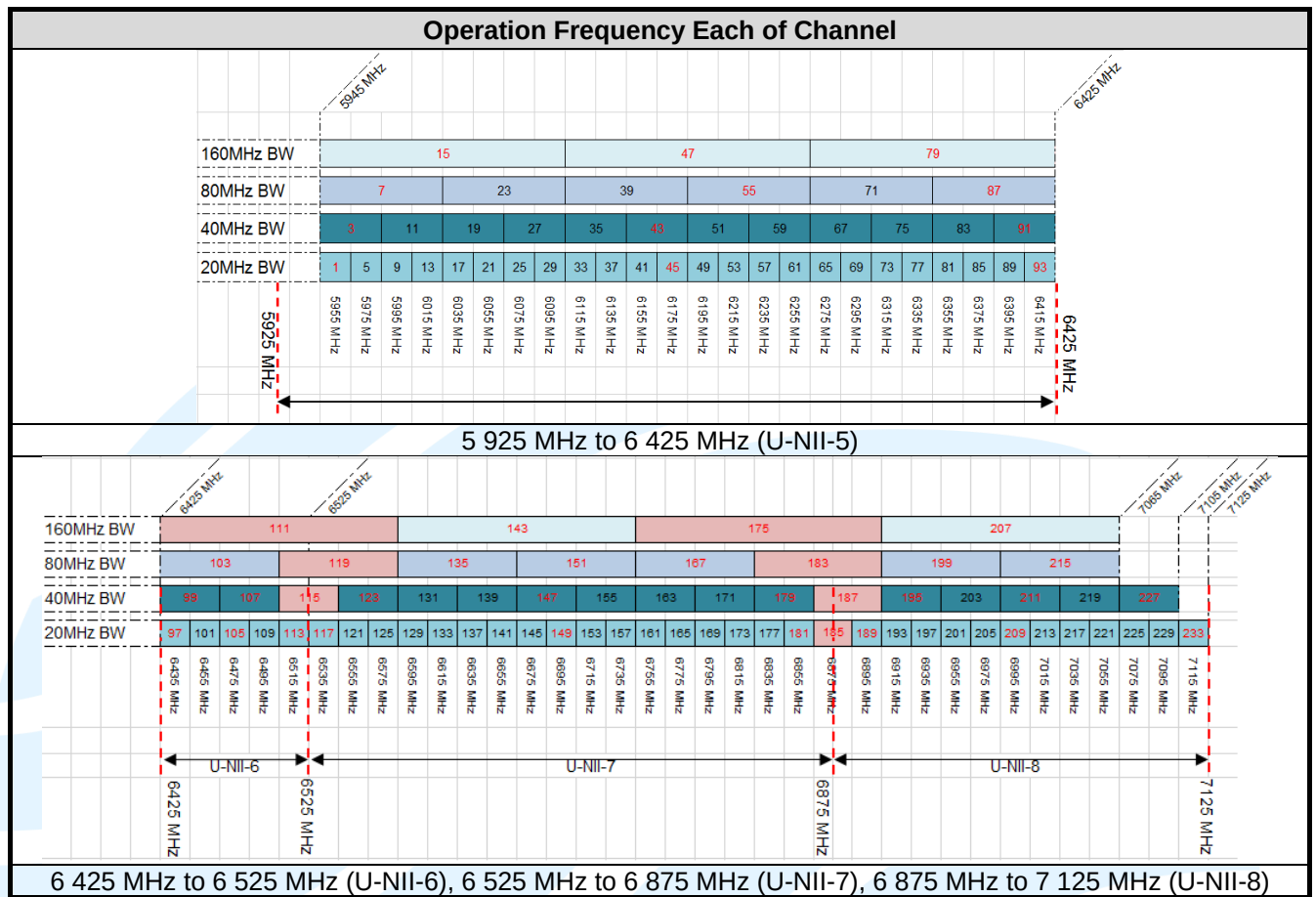
1.2.2 Description of Accessories

Refer to Report 26051324500EMC-1 for accessories.

1.3 PRODUCT SPECIFICATION SUBJECTIVE TO THIS STANDARD

Frequency Bands:	5 925 MHz to 6 425 MHz (U-NII-5)				
	6 425 MHz to 6 525 MHz (U-NII-6)				
	6 525 MHz to 6 875 MHz (U-NII-7)				
	6 875 MHz to 7 125 MHz (U-NII-8)				
Frequency Ranges:	5 955 MHz to 6 415 MHz				
	6 435 MHz to 6 515 MHz				
	6 535 MHz to 6 875 MHz				
	6 895 MHz to 7 115 MHz				
Support Standards:	IEEE 802.11ax				
Equipment classes: (Provided by the customer)	☒ 6XD: 15E 6 GHz Low-power Indoor client. These devices are controlled by a low-power indoor access point (P1) and operate in U-NII bands 5-8				
Type of Modulation:	IEEE 802.11ax:				
	☒ OFDM (1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK) ☒ OFDMA (1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK)				
Channel Spacing:	☒ IEEE 802.11ax-HE20: 20 MHz				
	☒ IEEE 802.11ax-HE40: 40 MHz				
	☒ IEEE 802.11ax-HE80: 80 MHz				
	☒ IEEE 802.11ax-HE160: 160 MHz				
Data Rate:	Up to MCS11				
Number of Channels:	☒ IEEE 802.11ax-HE20: 59 Channels				
	☒ IEEE 802.11ax-HE40: 29 Channels				
	☒ IEEE 802.11ax-HE80: 14 Channels				
	☒ IEEE 802.11ax-HE160: 7 Channels				
Antenna Type: (Provided by the customer)	Antenna 5 (Chain 0)	LDS Antenna			
	Antenna 6 (Chain 1)	LDS Antenna			
Antenna Gain (dBi): (Provided by the customer)		U-NII-5	U-NII-6	U-NII-7	U-NII-8
	Antenna 5 (Chain 0)	0.90	0.90	0.74	0.74
	Antenna 6 (Chain 1)	-3.94	-3.70	-3.70	-5.03
Max. EIRP (dBm):	Mode	MIMO (Antenna 1+2)			
		U-NII-5	U-NII-6	U-NII-7	U-NII-8
	IEEE 802.11ax-HE20	8.76	8.23	8.74	8.74
	IEEE 802.11ax-HE40	11.76	11.74	11.96	11.42
	IEEE 802.11ax-HE80	11.79	11.55	11.26	11.28
	IEEE 802.11ax-HE160	11.95	11.77	12.24	10.77
Normal Test Voltage:	3.87 Vdc and/or 120V~60Hz				

1.4 OTHER INFORMATION



1.5 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested with associated equipment below.

1) Support Equipment

Description	Manufacturer	Model No.	Serial Number	Supplied by
Notebook	DELL	Inspiron 5409	N/A	UnionTrust
ROG Rapture Tri-band Gaming Router	ASUS	GT-AXE11000	M3IAJF201746	UnionTrust

2) Support Cable

Cable No.	Description	Connector	Length	Supplied by
1	Antenna Cable x 2	SMA	0.3 Meter	UnionTrust

1.6 TEST LOCATION

Shenzhen UnionTrust Quality and Technology Co., Ltd.

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1.7 TEST FACILITY

The test facility is recognized, certified, or accredited by the following organizations:

CNAS-Lab Code: L9069

The measuring equipment utilized to perform the tests documented in this report has been calibrated once a year or in accordance with the manufacturer's recommendations, and is traceable under the ISO/IEC 17025 to international or national standards. Equipment has been calibrated by accredited calibration laboratories.

A2LA-Lab Certificate No.: 4312.01

Shenzhen UnionTrust Quality and Technology Co., Ltd. has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

ISED Wireless Device Testing Laboratories

CAB identifier: CN0032

FCC Accredited Lab.

Designation Number: CN1194

Test Firm Registration Number: 259480

1.8 DEVIATION FROM STANDARDS

None.

1.9 ABNORMALITIES FROM STANDARD CONDITIONS

None.

1.10 OTHER INFORMATION REQUESTED BY THE CUSTOMER

None.

1.11 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the Product as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

No.	Item	Measurement Uncertainty
1	Conducted emission 9kHz-150kHz	±3.2 dB
2	Conducted emission 150kHz-30MHz	±3.1 dB
3	Radiated emission 9kHz-30MHz	±4.7 dB
4	Radiated emission 30MHz-1GHz	±4.6 dB
5	Radiated emission 1GHz-18GHz	±4.4 dB
6	Radiated emission 18GHz-40GHz	±4.6 dB
7	Radio Frequency	±6.5x10 ⁻⁸
8	RF output power, conducted	±0.68 dB
9	Power Spectral Density, conducted	±0.6 dB
10	Conducted spurious emissions	±2.7 dB
11	Time	±0.19 %
12	Occupied Channel Bandwidth	±1.86 %
13	Contention-based protocol	±2.57 dB

2. TEST SUMMARY

Low-power Indoor client (LPI client)

FCC 47 CFR Part 15 Subpart E Test Cases			
Test Item	Test Requirement	Test Method	Result
Antenna Requirement	FCC 47 CFR Part 15 Subpart C Section 15.203 FCC 47 CFR Part 15 Subpart E Section 15.407a(10)	N/A	PASS
26 dB emission bandwidth	FCC 47 CFR Part 15 Subpart E Section 15.407 a(11) (13)	KDB 789033 D02 v02r01 Section II.C.1	PASS
99% Occupied Bandwidth	N/A	KDB 789033 D02 v02r01 Section II.D	None; for reporting purposes only.
Maximum Conducted Output Power	N/A	KDB 789033 D02 v02r01 Section II.E.3.a (Method PM)	None; for reporting purposes only.
Fundamental Maximum EIRP	FCC 47 CFR Part 15 Subpart E Section 15.407a(8),(12)	KDB 789033 D02 v02r01 Section II. E.3.a (Method PM)	PASS
Fundamental Power Spectral Density	FCC 47 CFR Part 15 Subpart E Section 15.407 a(8)	KDB 789033 D02 v02r01 Section II. F	PASS
In-Band Emissions (Channel Mask)	FCC 47 CFR Part 15 Subpart E Section 15.407 b(7)	KDB 987594 D02 v02r01 Section II. J	PASS
Contention Based Protocol	FCC 47 CFR Part 15 Subpart E Section 15.407 d(6)	KDB 987594 D02 v02r01 Section II. I	PASS
Unwanted Emissions	FCC 47 CFR Part 15 Subpart E Section 15.407 b(6)(8)(9)(10)(11) FCC 47 CFR Part 15 Subpart C Section 15.209/205	KDB 789033 D02 v02r01 Section II G.3, G.4, G.5, and G.6	PASS
Duty Cycle	N/A	KDB 789033 D02 v02r01 Section II.B.1	None; for reporting purposes only.
AC Power Line Conducted Emission	FCC 47 CFR Part 15 Subpart E Section 15.407 b(9) FCC 47 CFR Part 15 Subpart C Section 15.207	ANSI C63.10-2020 Section 6.2	PASS
Note: 1) N/A: In this whole report not applicable.			

3. EQUIPMENT LIST

Radiated Emission Test Equipment List						
Used	Equipment	Manufacturer	Model No.	Serial Number	Cal. date	Cal. Due date
☒	3M Chamber & Accessory Equipment	ETS-LINDGREN	3M	Euroshiedpn-CT001270-1317	11-Nov-2023	10-Nov-2026
☒	Loop Antenna	ETS-Lindgren	6502	00202525	26-Jan-2026	25-Jan-2027
☒	Broadband Antenna	ETS-Lindgren	3142E	00201566	26-Oct-2025	25-Oct-2026
☒	6dB Attenuator	Talent	RA6A5-N-18	18103001	26-Oct-2025	25-Oct-2026
☒	Pre-amplifier	HP	8447F	2805A02960	24-Oct-2025	23-Oct-2026
☒	Double-Ridged Waveguide Horn Antenna (Pre-amplifier)	ETS-Lindgren	3117-PA	00201541	21-Mar-2026	20-Mar-2027
☒	Pre-amplifier	ETS-Lindgren	00118385	00201874	21-Mar-2026	20-Mar-2027
☒	Double-Ridged Waveguide Horn Antenna (Pre-amplifier)	ETS-Lindgren	3116C-PA	00202652	30-Oct-2025	29-Oct-2026
☒	Pre-amplifier	ETS-Lindgren	00118384	00202652	24-Oct-2025	23-Oct-2026
☒	Receiver	ROHDE & SCHWARZ	ESIB26	100114	24-Oct-2025	23-Oct-2026
☒	Spectrum analyzer	ROHDE & SCHWARZ	FSV40-N	101653	20-Mar-2026	19-Mar-2027
☒	Highpass Filter (8000-18000MHz)	Micro-tronics	HPM50107	G083	20-Mar-2026	19-Mar-2027
☒	Multi device Controller	ETS-Lindgren	7006-001	160105.00	N/A	N/A
☒	Test Software	Audix	e3	Software Version: 9.160323		

Conducted Emission Test Equipment List						
Used	Equipment	Manufacturer	Model No.	Serial Number	Cal. date	Cal. Due date
☒	LISN	ROHDE & SCHWARZ	ENV216	3560.6550.12	22-Jan-2026	21-Jan-2027
☐	LISN	ETS-Lindgren	3816/2SH	00201088	22-Jan-2026	21-Jan-2027
☒	Receiver	ROHDE & SCHWARZ	ESCI 3	101192	24-Oct-2025	23-Oct-2026
☒	Shielding room	ETS-Lindgren	843	Euroshiedpn-CT001270-1246	25-Oct-2024	24-Oct-2027
☒	Test Software	EZ-EMC	EZ-CON	Software Version: EMC-CON 3A1.1		

RF Conducted Test Equipment List						
Used	Equipment	Manufacturer	Model No.	Serial Number	Cal. date	Cal. Due date
☒	EXA Signal Analyzer	KEYSIGHT	N9010A	MY51440197	20-Mar-2026	19-Mar-2027
☒	MXG-B RF Vector Signal Generator	KEYSIGHT	N5182B	MY61350133	20-Mar-2026	19-Mar-2027
☒	Frequency extender for EXG or MXG	KEYSIGHT	N5182BX07	MY59362557	11-Jun-2026	10-Jun-2027
☒	Shielding room	ETS-Lindgren	333	Euroshiedpn-TJ2 343-S1608	20-Mar-2026	19-Mar-2029
☒	Automatic control switch	Tonscend	JS0806-2	24G80620875	N/A	N/A
☒	Test Software	Tonscend	JS1120-3	Software Version: V3.5.39		

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4. TEST CONFIGURATION

4.1 ENVIRONMENTAL CONDITIONS FOR TESTING

4.1.1 Normal or Extreme Test Conditions

Environment Parameter	Selected Values During Tests		
Test Condition	Ambient		
	Temperature (°C)	Voltage	Relative Humidity (%)
NT/NV	+15 to +35	3.87Vdc and/or 120 Vac	20 to 75
Remark: 1) NV: Normal Voltage; NT: Normal Temperature			

4.1.2 Record of Normal Environment and Test Sample

Test Item	Sample No.	Tested by
AC Power Line Conducted Emission	S202605138612-ZJA03/26	Shirley Wu
26 dB emission bandwidth	S202605138612-ZJA15/26	Alan Jia
99% Occupied Bandwidth		
Maximum Conducted Output Power		
Fundamental Maximum EIRP		
Fundamental Power Spectral Density		
In-Band Emissions (Channel Mask)		
Duty Cycle		
Contention Based Protocol		
Unwanted Emissions	S202605138612-ZJA03/26	Leo Li

4.2 TEST CHANNELS

Tx/Rx Frequency	Bandwidth (MHz)	Test RF Channel Lists		
		Lowest	Middle	Highest
U-NII-5	20	Channel 1	Channel 45	Channel 93
		5955 MHz	6175 MHz	6415 MHz
	40	Channel 3	Channel 43	Channel 91
		5965 MHz	6165 MHz	6405 MHz
	80	Channel 7	Channel 55	Channel 87
		5985 MHz	6225 MHz	6385 MHz
	160	Channel 15	Channel 47	Channel 79
		6025 MHz	6185 MHz	6345 MHz
U-NII-6	20	Channel 97	Channel 105	Channel 113
		6435 MHz	6475 MHz	6515 MHz
	40	Channel 99	Channel 107	Channel 115
		6445 MHz	6485 MHz	6525 MHz
	80	Channel 103	/	Channel 119
		6465 MHz	/	6545 MHz
	160	/	Channel 111	/
		/	6505 MHz	/
U-NII-7	20	Channel 117	Channel 149	Channel 181 / 185
		6535 MHz	6695 MHz	6855 MHz / 6875 MHz
	40	Channel 123	Channel 147	Channel 179 / 188
		6565 MHz	6685 MHz	6845 MHz / 6885 MHz
	80	Channel 135	Channel 151	Channel 167
		6625 MHz	6705 MHz	6785 MHz
	160	Channel 143	/	Channel 175
		6665 MHz	/	6825 MHz
U-NII-8	20	Channel 189	Channel 209	Channel 233

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	40	6895 MHz	6995 MHz	7115 MHz
		Channel 195	Channel 211	Channel 227
		6925 MHz	7005 MHz	7085 MHz
	80	Channel 183	Channel 199	Channel 215
		6865 MHz	6945 MHz	7025 MHz
	160	/	Channel 207	/
		/	6985 MHz	/

Following channel(s), Nominal Channel Bandwidth was (were) selected for the final test as listed below.

Test Item	BW (MHz)				Mode			Test Channel			
	20	40	80	160	LPI client	VLP (without TPC)	VLP (with TPC)	Low	Mid	High	Other
26 dB emission bandwidth	☒	☒	☒	☒	☒	☐	☐	☒	☒	☒	☐
99% Occupied Bandwidth	☒	☒	☒	☒	☒	☐	☐	☒	☒	☒	☐
Maximum Conducted Output Power	☒	☒	☒	☒	☒	☐	☐	☒	☒	☒	☐
Fundamental Maximum EIRP	☒	☒	☒	☒	☒	☐	☐	☒	☒	☒	☐
Fundamental Power Spectral Density	☒	☒	☒	☒	☒	☐	☐	☒	☒	☒	☐
In-Band Emissions (Channel Mask)	☒	☒	☒	☒	☒	☐	☐	☒	☒	☒	☐
Contention Based Protocol	☒	☐	☒	☐	☒	☐	☐	☐	☐	☐	☒
Unwanted Emissions	☒	☒	☒	☒	☒	☐	☐	☒	☒	☒	☐
Duty Cycle	☒	☒	☒	☒	☒	☐	☐	☒	☐	☐	☐
AC Power Line Conducted Emission	Link Mode										

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4.3 EUT TEST STATUS

Mode	Tx/Rx Function	Description
IEEE 802.11ax	2Tx/2Rx	1. Keep the EUT in transmitting mode with all kind of modulation and all kind of data rate.

Power Setting (Provided by the customer)				
Test Mode	RU	Freq. [MHz]	Set Power	
			Ant 5 (Chain 0)	Ant 6 (Chain 1)
11AX20MIMO	Full	5955	4	4
11AX20MIMO	Full	6175	3	3
11AX20MIMO	Full	6415	3	3
11AX20MIMO	Full	6435	2	2
11AX20MIMO	Full	6475	3	3
11AX20MIMO	Full	6515	3	3
11AX20MIMO	Full	6535	3	3
11AX20MIMO	Full	6695	2	2
11AX20MIMO	Full	6855	4	4
11AX20MIMO	Full	6875	4	4
11AX20MIMO	Full	6895	5	5
11AX20MIMO	Full	6995	5	5
11AX20MIMO	Full	7115	4	4
11AX20MIMO	106ToneRU53	5955	1	1
11AX20MIMO	106ToneRU54	6175	0	0
11AX20MIMO	106ToneRU54	6415	0	0
11AX20MIMO	106ToneRU53	6435	-1	-1
11AX20MIMO	106ToneRU54	6475	0	0
11AX20MIMO	106ToneRU54	6515	0	0
11AX20MIMO	106ToneRU53	6535	0	0
11AX20MIMO	106ToneRU54	6695	-1	-1
11AX20MIMO	106ToneRU54	6855	1	1
11AX20MIMO	106ToneRU53	6875	1	1
11AX20MIMO	106ToneRU53	6895	2	2
11AX20MIMO	106ToneRU54	6995	2	2
11AX20MIMO	106ToneRU54	7115	1	1
11AX20MIMO	52ToneRU37	5955	-2	-2
11AX20MIMO	52ToneRU39	6175	-3	-3
11AX20MIMO	52ToneRU40	6415	-3	-3
11AX20MIMO	52ToneRU37	6435	-4	-4
11AX20MIMO	52ToneRU39	6475	-3	-3
11AX20MIMO	52ToneRU40	6515	-3	-3
11AX20MIMO	52ToneRU37	6535	-3	-3
11AX20MIMO	52ToneRU39	6695	-4	-4
11AX20MIMO	52ToneRU40	6855	-2	-2
11AX20MIMO	52ToneRU37	6875	-2	-2
11AX20MIMO	52ToneRU37	6895	-1	-1
11AX20MIMO	52ToneRU39	6995	-1	-1
11AX20MIMO	52ToneRU40	7115	-2	-2
11AX20MIMO	26ToneRU0	5955	-5	-5
11AX20MIMO	26ToneRU4	6175	-6	-6
11AX20MIMO	26ToneRU8	6415	-6	-6
11AX20MIMO	26ToneRU0	6435	-7	-7
11AX20MIMO	26ToneRU4	6475	-6	-6
11AX20MIMO	26ToneRU8	6515	-6	-6
11AX20MIMO	26ToneRU0	6535	-6	-6
11AX20MIMO	26ToneRU4	6695	-7	-7

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Power Setting (Provided by the customer)				
Test Mode	RU	Freq. [MHz]	Set Power	
			Ant 5 (Chain 0)	Ant 6 (Chain 1)
11AX20MIMO	26ToneRU8	6855	-5	-5
11AX20MIMO	26ToneRU0	6875	-5	-5
11AX20MIMO	26ToneRU0	6895	-4	-4
11AX20MIMO	26ToneRU4	6995	-4	-4
11AX20MIMO	26ToneRU8	7115	-5	-5
11AX40MIMO	Full	5965	8	8
11AX40MIMO	Full	6165	7	7
11AX40MIMO	Full	6405	7	7
11AX40MIMO	Full	6445	7	7
11AX40MIMO	Full	6485	7	7
11AX40MIMO	Full	6525	7	7
11AX40MIMO	Full	6565	7	7
11AX40MIMO	Full	6685	7	7
11AX40MIMO	Full	6845	8	8
11AX40MIMO	Full	6885	8	8
11AX40MIMO	Full	6925	9	9
11AX40MIMO	Full	6965	9	9
11AX40MIMO	Full	7085	8	8
11AX80MIMO	Full	5985	8	8
11AX80MIMO	Full	6145	7	7
11AX80MIMO	Full	6385	7	7
11AX80MIMO	Full	6465	7	7
11AX80MIMO	Full	6545	8	8
11AX80MIMO	Full	6625	7	7
11AX80MIMO	Full	6705	7	7
11AX80MIMO	Full	6785	8	8
11AX80MIMO	Full	6865	8	8
11AX80MIMO	Full	6945	9	9
11AX80MIMO	Full	7025	8	8
11AX160MIMO	Full	6025	7	7
11AX160MIMO	Full	6185	6	6
11AX160MIMO	Full	6345	7	7
11AX160MIMO	Full	6505	8	8
11AX160MIMO	Full	6665	7	7
11AX160MIMO	Full	6825	8	8
11AX160MIMO	Full	6985	9	9

Test Software (Provided by the customer)
Test software name: QRCT4

4.4PRE-SCAN

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations and data rate. Following data rate was (were) selected for the final test as listed below

Mode	Worst-case data rates
IEEE 802.11ax-HE20	MCS0
IEEE 802.11ax-HE40	MCS0
IEEE 802.11ax-HE80	MCS0
IEEE 802.11ax-HE160	MCS0

4.5 TEST SETUP

4.5.1 For Radiated Emissions test setup

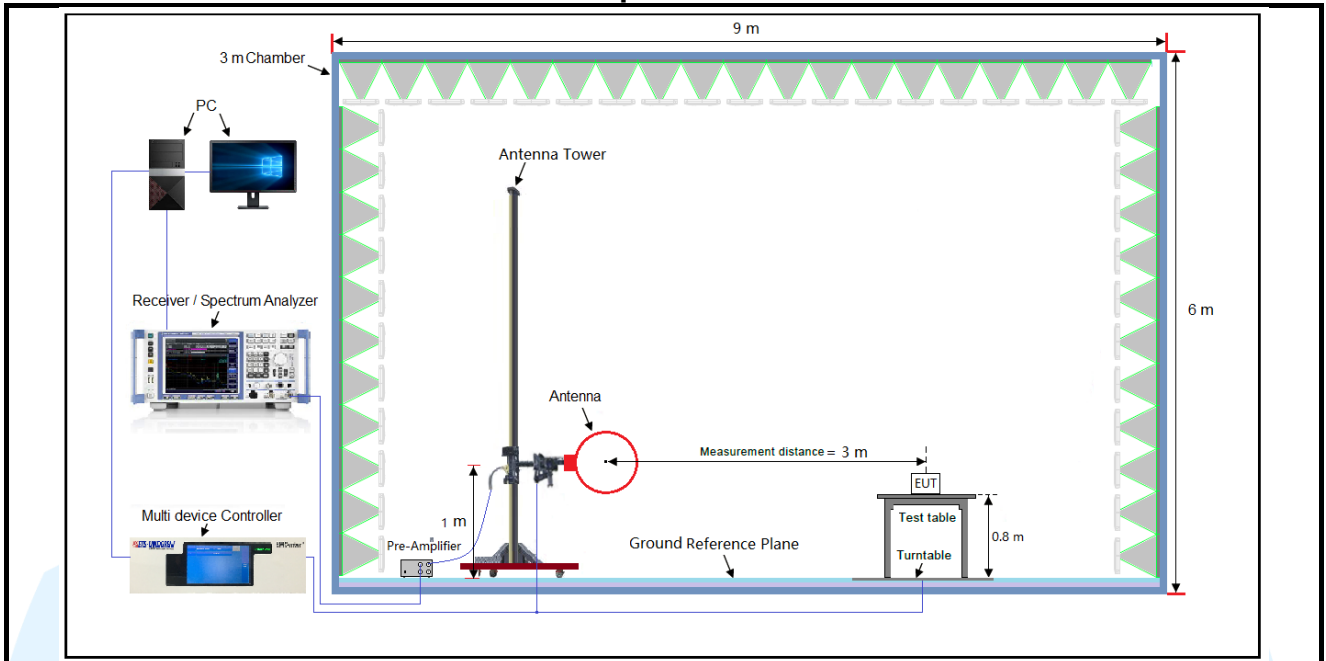


Figure 1. Below 30MHz

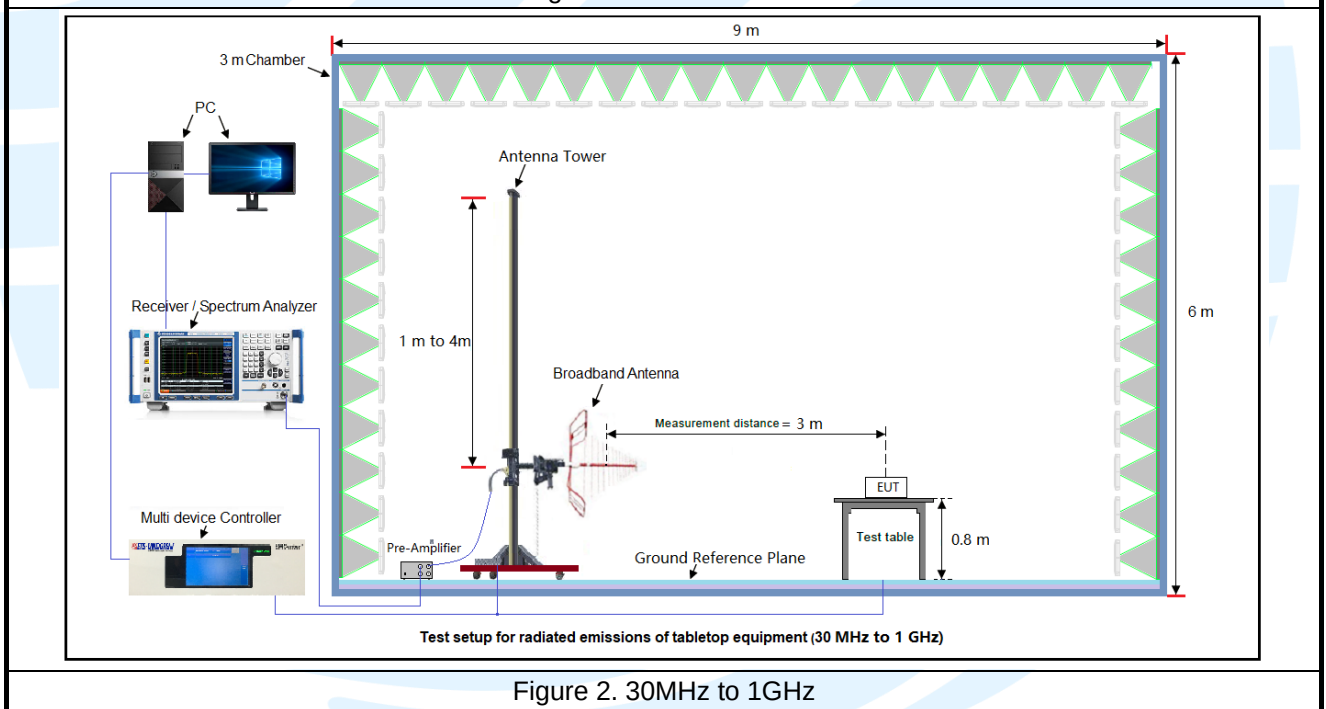
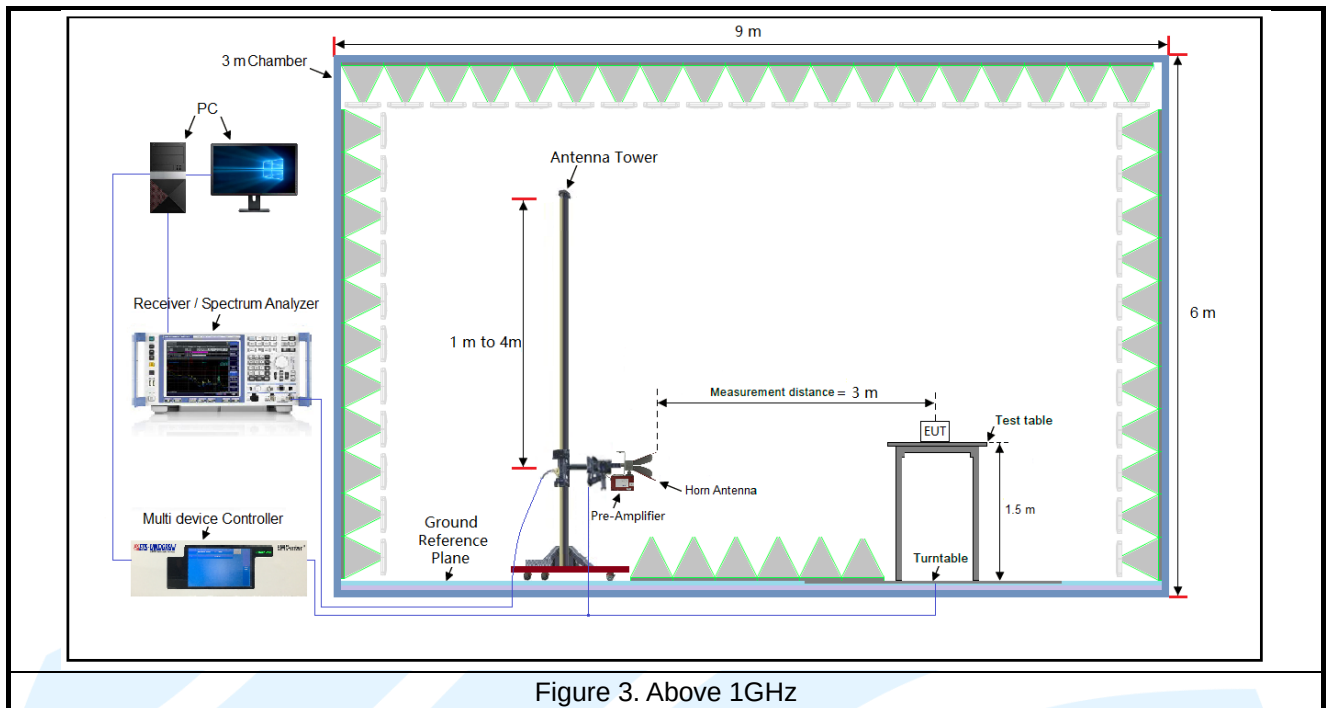
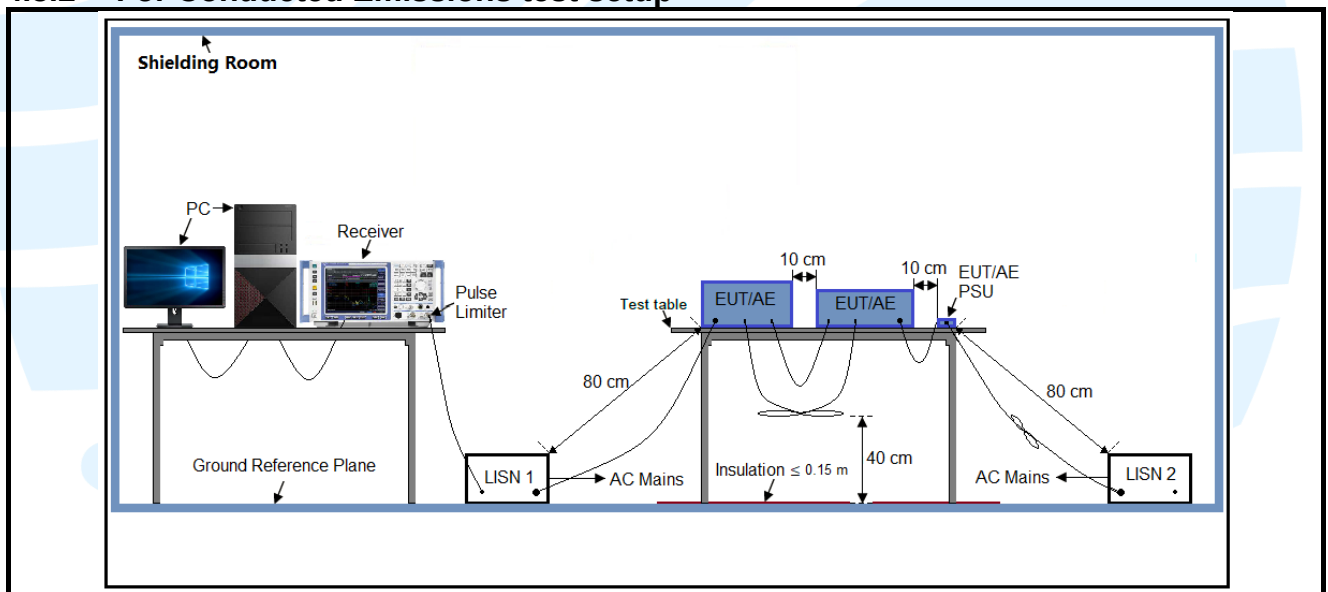


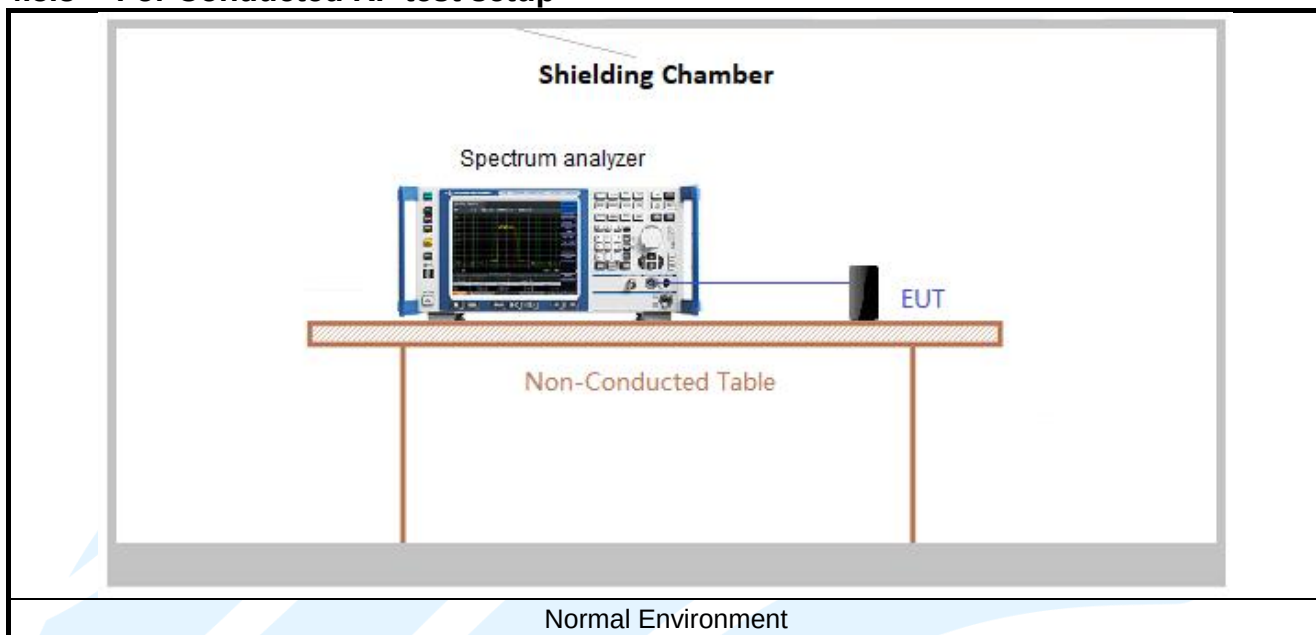
Figure 2. 30MHz to 1GHz



4.5.2 For Conducted Emissions test setup



4.5.3 For Conducted RF test setup



4.6 SYSTEM TEST CONFIGURATION

For emissions testing, the equipment under test (EUT) setup to transmit continuously to simplify the measurement methodology. Care was taken to ensure proper power supply voltages during testing. During testing, radiated emission were performed with the EUT set to transmit at the channel with highest output power as worst-case scenario. It was powered by 3.87V Battery. Only the worst case data were recorded in this test report.

The signal is maximized through rotation and placement in the three orthogonal axes. The antenna height and polarization are varied during the search for maximum signal level. The antenna height is varied from 1 to 4 meters. Radiated emissions are taken at three meters unless the signal level is too low for measurement at that distance. If necessary, a pre-amplifier is used and/or the test is conducted at a closer distance. Therefore, all final radiated testing was performed with the EUT in orientation.

All readings are extrapolated back to the equivalent three meter reading using inverse scaling with distance. Analyzer resolution is 100 kHz or greater for frequencies below 1000 MHz. The resolution is 1 MHz or greater for frequencies above 1000 MHz. The spurious emissions more than 20 dB below the permissible value are not reported.

Radiated emission measurement were performed from the lowest radio frequency signal generated in the device which is greater than 9 kHz to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.

With same mode on Full RU, Partial RU and SU, investigation was performed on both band edge and radiated spurious emissions to determine the worst case, and Full RU mode was determined to be the worst case.

4.7 DUTY CYCLE

Test Procedure: KDB 789033 D02 v02r01 Section II.B.1

Test Results

Mode	Data Rates	On Time (msec)	Period (msec)	Duty Cycle (linear)	Duty Cycle (%)	Duty Cycle Factor (dB)	1/T Minimum VBW (kHz)
IEEE 802.11ax-HE20 (26RU)	MCS 0	5.09	5.11	0.9961	99.61	0.02	0.20
IEEE 802.11ax-HE20 (52RU)	MCS 0	5.07	5.09	0.9961	99.61	0.02	0.20
IEEE 802.11ax-HE20 (106RU)	MCS 0	2.65	2.67	0.9925	99.25	0.03	0.38
IEEE 802.11ax-HE20 (SU)	MCS 0	5.44	5.46	0.9963	99.63	0.02	0.18
IEEE 802.11ax-HE40 (SU)	MCS 0	5.44	5.46	0.9963	99.63	0.02	0.18
IEEE 802.11ax-HE80 (SU)	MCS 0	5.45	5.46	0.9982	99.82	0.01	0.18
IEEE 802.11ax-HE160 (SU)	MCS 0	5.45	5.46	0.9982	99.82	0.01	0.18

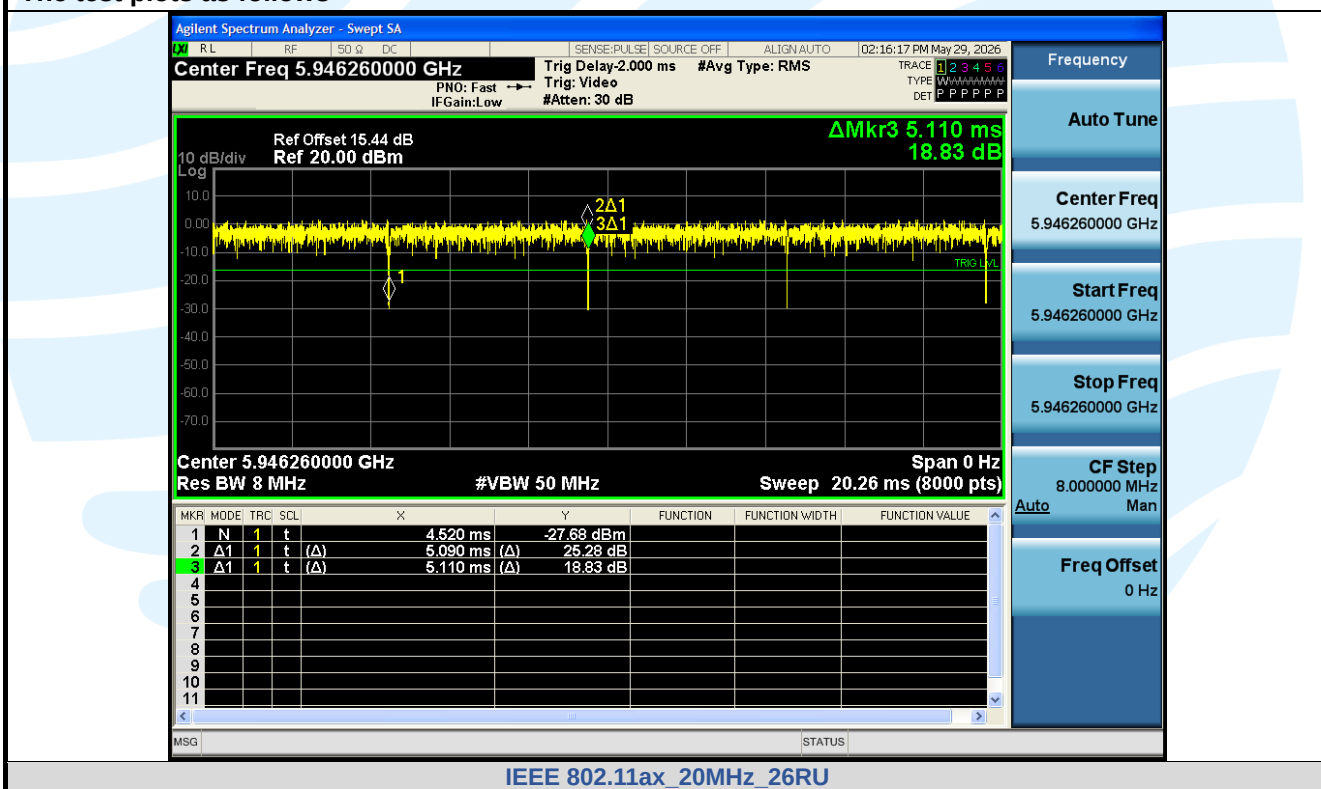
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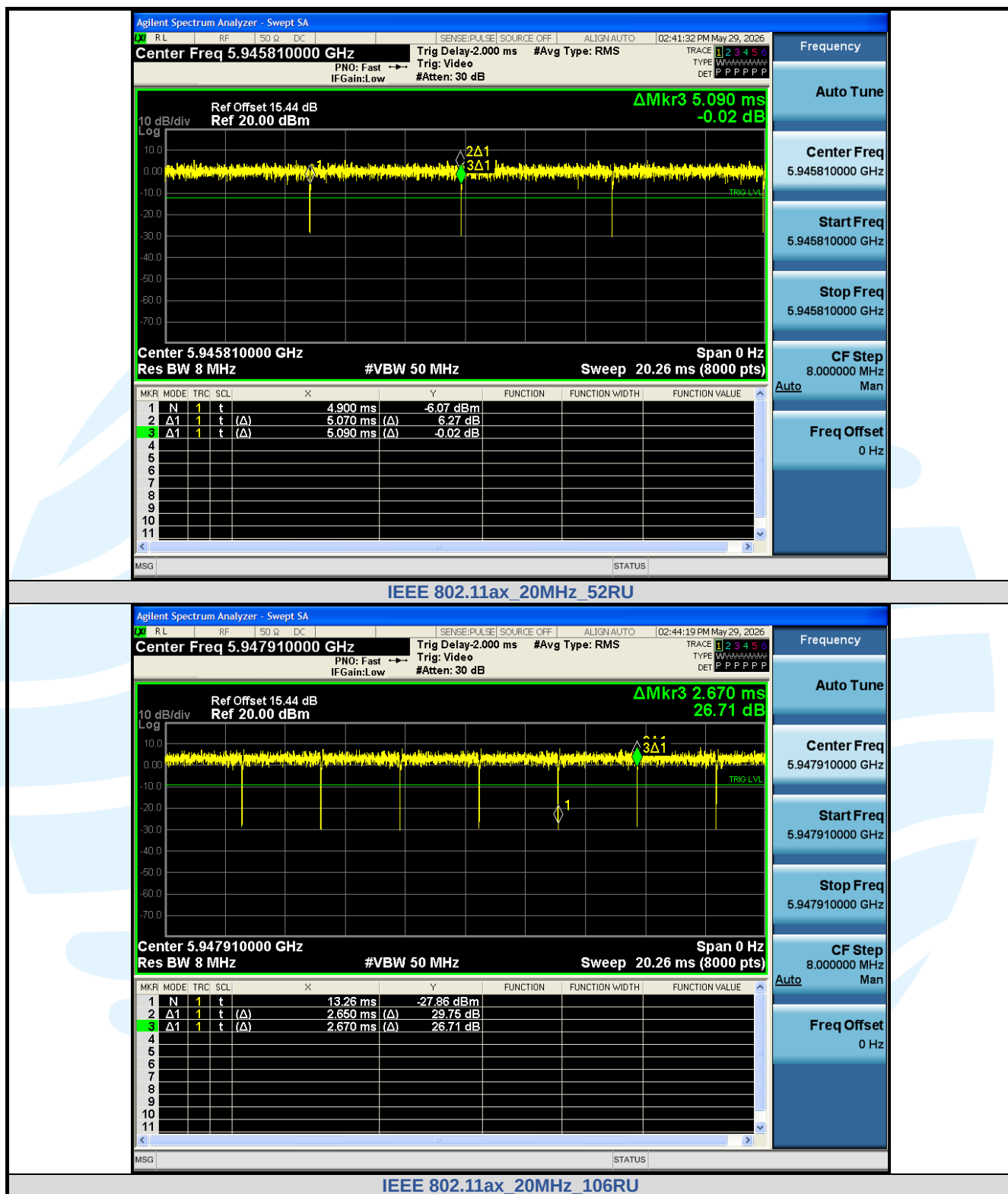
- 1). There is same duty cycle factor on Chain 0 and Chain 1
- 2). There is same duty cycle factor on U-NII-5, U-NII-6, U-NII-7 and U-NII-8

Remark:

- 1) Duty cycle= On Time/ Period;
- 2) Duty Cycle factor = 10 * log(1/ Duty cycle)

The test plots as follows



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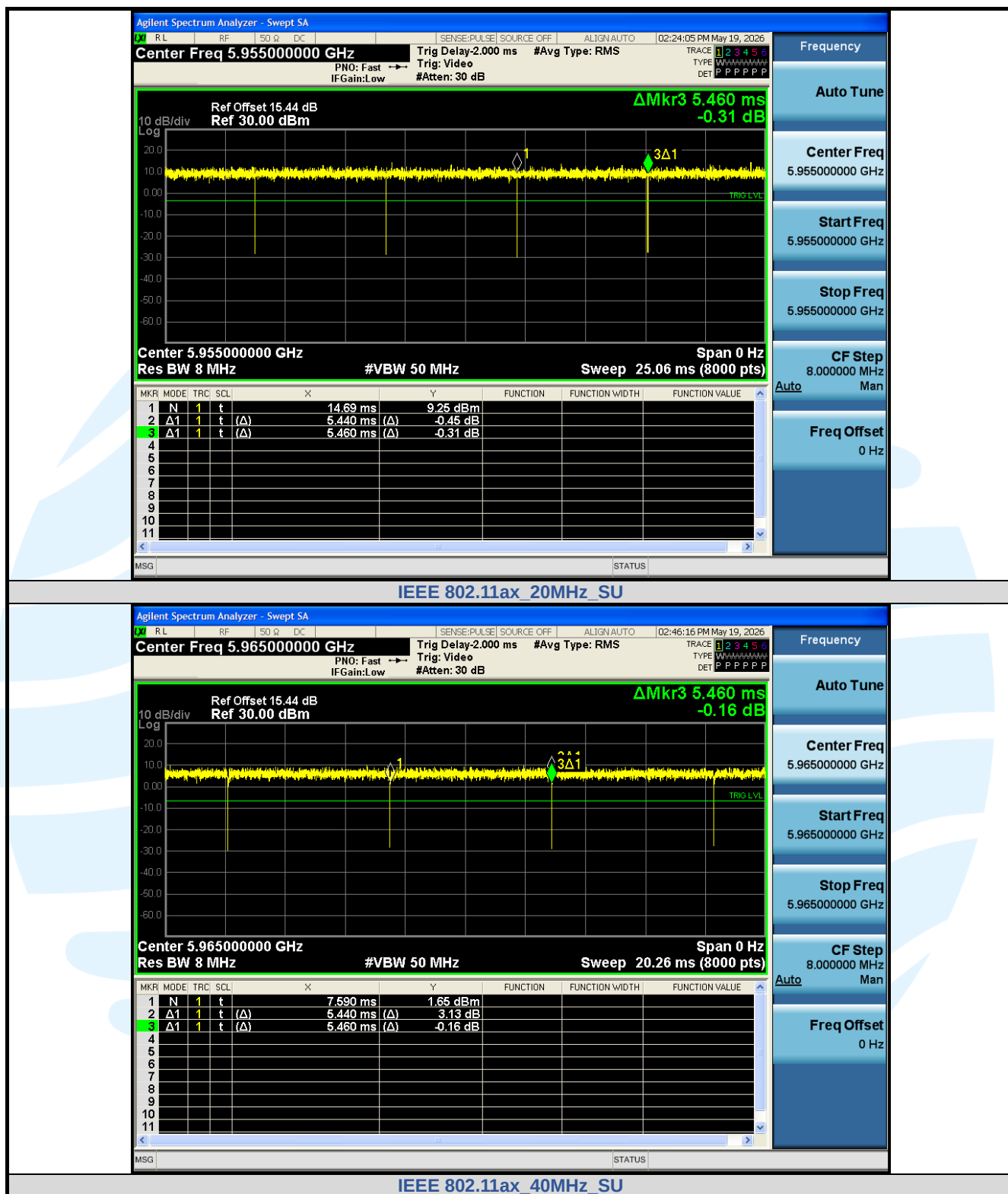
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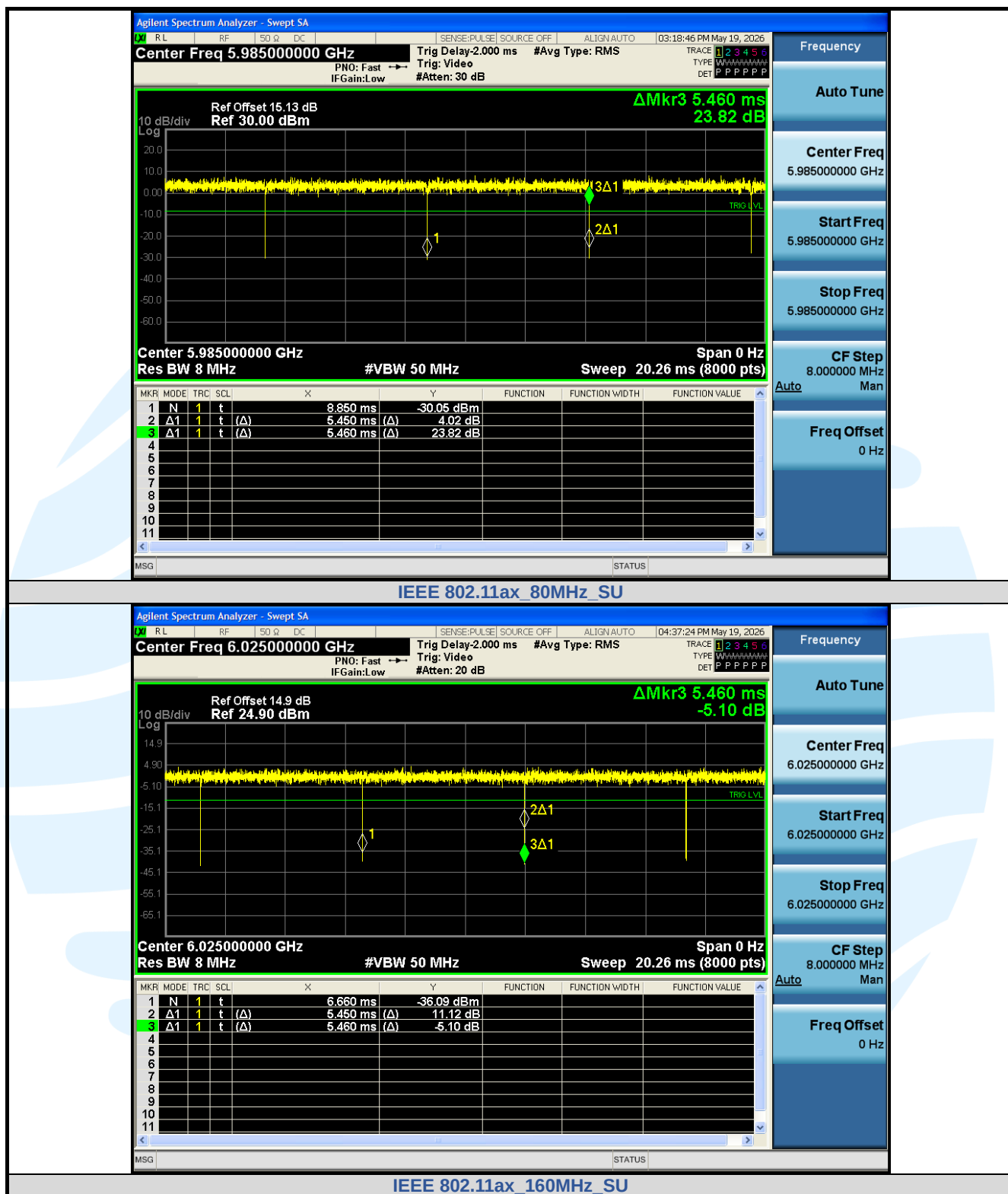
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5. RADIO TECHNICAL REQUIREMENTS SPECIFICATION

5.1 REFERENCE DOCUMENTS FOR TESTING

No.	Identity	Document Title
1	FCC 47 CFR Part 2	Frequency allocations and radio treaty matters; general rules and regulations
2	FCC 47 CFR Part 15	Radio Frequency Devices
3	ANSI C63.10-2020	American National Standard for Testing Unlicensed Wireless Devices
4	987594 D02 U-NII 6 GHz EMC Measurement v03	GUIDELINES FOR COMPLIANCE TESTING OF UNLICENSED NATIONAL INFORMATION INFRASTRUCTURE 6 GHz (U-NII) DEVICES PART 15, SUBPART E
5	987594 D01 U-NII 6GHz General Requirements v03	Part 15 Subpart E U-NII 6 GHz General Guidance Bands 5, 6, 7, 8
6	789033 D02 General U-NII Test Procedures New Rules v02r01	GUIDELINES FOR COMPLIANCE TESTING OF UNLICENSED NATIONAL INFORMATION INFRASTRUCTURE (U-NII) DEVICES PART 15, SUBPART E

5.2 ANTENNA REQUIREMENT

Standard Requirement
15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall 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, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. FCC 47 CFR Part 15 Subpart E Section 15.407a(10) requirement: Access points operating under the provisions of paragraphs (a)(5) and (a)(6) of this section must employ a permanently attached integrated antenna EUT Antenna: Both antenna in the interior of the equipment and no consideration of replacement. The transmit signals are correlated with each other, the best case directional gain of the antenna is 1.91dBi (See section 5.5).

5.326 DB BANDWIDTH

Test Requirement: FCC 47 CFR Part 15 Subpart E Section 15.407 a(11) (13)

Test Method: KDB 789033 D02 v02r01 Section II.C.1

Limit: The maximum transmitter channel bandwidth for U-NII devices in the 5.925-7.125 GHz band is 320 megahertz.

Test Procedure:

The output from the transmitter was connected to an attenuator and then to the input of the RF Spectrum analyzer.

Spectrum analyzer according to the following Settings:

a) Set RBW = approximately 1 % of the emission bandwidth.

b) Set the VBW > RBW.

c) Detector = Peak.

d) Trace mode = max hold.

e) Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1 %.

Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

Test Setup: Refer to section 4.5.3 for details.

Instruments Used: Refer to section 3 for details

Test Results:

Test Mode	Ru&Index	Freq. [MHz]	26dB BW (MHz)		Limit (MHz)
			Chain 0	Chain 1	
11AX20MIMO	Full	5955	20.52	20.81	320
11AX20MIMO	Full	6175	20.75	20.51	320
11AX20MIMO	Full	6415	20.64	20.82	320
11AX20MIMO	Full	6435	20.81	20.76	320
11AX20MIMO	Full	6475	20.87	20.58	320
11AX20MIMO	Full	6515	20.60	20.85	320
11AX20MIMO	Full	6535	20.85	20.91	320
11AX20MIMO	Full	6695	20.83	20.79	320
11AX20MIMO	Full	6855	20.99	20.94	320
11AX20MIMO	Full	6875	20.84	20.88	320
11AX20MIMO	Full	6895	20.99	20.76	320
11AX20MIMO	Full	6995	20.89	21.00	320
11AX20MIMO	Full	7115	20.73	20.71	320
11AX40MIMO	Full	5965	39.98	40.11	320
11AX40MIMO	Full	6165	40.01	40.17	320
11AX40MIMO	Full	6405	40.35	39.84	320
11AX40MIMO	Full	6445	40.29	40.33	320
11AX40MIMO	Full	6485	40.21	40.24	320
11AX40MIMO	Full	6525	40.00	40.40	320
11AX40MIMO	Full	6565	40.44	40.02	320
11AX40MIMO	Full	6685	40.01	39.96	320
11AX40MIMO	Full	6845	40.27	40.10	320
11AX40MIMO	Full	6885	40.10	40.32	320
11AX40MIMO	Full	6925	40.18	40.21	320
11AX40MIMO	Full	6965	40.29	39.99	320
11AX40MIMO	Full	7085	40.06	40.12	320
11AX80MIMO	Full	5985	82.21	82.10	320
11AX80MIMO	Full	6145	81.11	80.72	320
11AX80MIMO	Full	6385	80.61	81.13	320
11AX80MIMO	Full	6465	81.36	81.09	320
11AX80MIMO	Full	6545	81.23	81.53	320
11AX80MIMO	Full	6625	80.69	80.98	320
11AX80MIMO	Full	6705	81.57	80.44	320
11AX80MIMO	Full	6785	81.32	81.78	320

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Test Mode	Ru&Index	Freq. [MHz]	26dB BW (MHz)		Limit (MHz)
			Chain 0	Chain 1	
11AX80MIMO	Full	6865	82.00	80.82	320
11AX80MIMO	Full	6945	81.24	80.56	320
11AX80MIMO	Full	7025	81.46	80.44	320
11AX160MIMO	Full	6025	163.40	162.80	320
11AX160MIMO	Full	6185	165.20	163.50	320
11AX160MIMO	Full	6345	164.30	163.90	320
11AX160MIMO	Full	6505	164.10	163.90	320
11AX160MIMO	Full	6665	163.70	164.10	320
11AX160MIMO	Full	6825	164.50	162.80	320
11AX160MIMO	Full	6985	164.90	162.40	320
11AX20MIMO	26RU0	5955	20.69	20.52	320
11AX20MIMO	52RU37	5955	21.40	21.03	320
11AX20MIMO	106RU53	5955	22.33	21.57	320
11AX20MIMO	26RU4	6175	18.75	18.25	320
11AX20MIMO	52RU39	6175	19.43	18.79	320
11AX20MIMO	106RU54	6175	21.80	20.81	320
11AX20MIMO	26RU8	6415	21.05	20.59	320
11AX20MIMO	52RU40	6415	21.30	27.38	320
11AX20MIMO	106RU54	6415	21.64	21.82	320
11AX20MIMO	26RU0	6435	20.68	20.87	320
11AX20MIMO	52RU37	6435	20.73	22.04	320
11AX20MIMO	106RU53	6435	22.43	21.53	320
11AX20MIMO	26RU4	6475	18.52	18.34	320
11AX20MIMO	52RU39	6475	18.90	18.80	320
11AX20MIMO	106RU54	6475	21.87	22.13	320
11AX20MIMO	26RU8	6515	20.64	20.45	320
11AX20MIMO	52RU40	6515	20.90	20.01	320
11AX20MIMO	106RU54	6515	21.91	21.01	320
11AX20MIMO	26RU0	6535	20.57	28.19	320
11AX20MIMO	52RU37	6535	21.57	20.89	320
11AX20MIMO	106RU53	6535	22.50	21.80	320
11AX20MIMO	26RU4	6695	18.45	18.58	320
11AX20MIMO	52RU39	6695	19.22	18.83	320
11AX20MIMO	106RU54	6695	21.99	21.21	320
11AX20MIMO	26RU8	6855	20.38	20.73	320
11AX20MIMO	52RU40	6855	21.31	20.63	320
11AX20MIMO	106RU54	6855	22.59	21.49	320
11AX20MIMO	26RU0	6875	20.96	20.80	320
11AX20MIMO	52RU37	6875	21.32	21.16	320
11AX20MIMO	106RU53	6875	22.36	21.96	320
11AX20MIMO	26RU0	6895	20.48	20.54	320
11AX20MIMO	52RU37	6895	21.24	21.05	320
11AX20MIMO	106RU53	6895	22.25	21.16	320
11AX20MIMO	26RU4	6995	19.07	18.23	320
11AX20MIMO	52RU39	6995	18.68	18.65	320
11AX20MIMO	106RU54	6995	22.42	20.68	320
11AX20MIMO	26RU8	7115	20.56	20.45	320
11AX20MIMO	52RU40	7115	21.05	20.55	320
11AX20MIMO	106RU54	7115	21.68	21.06	320

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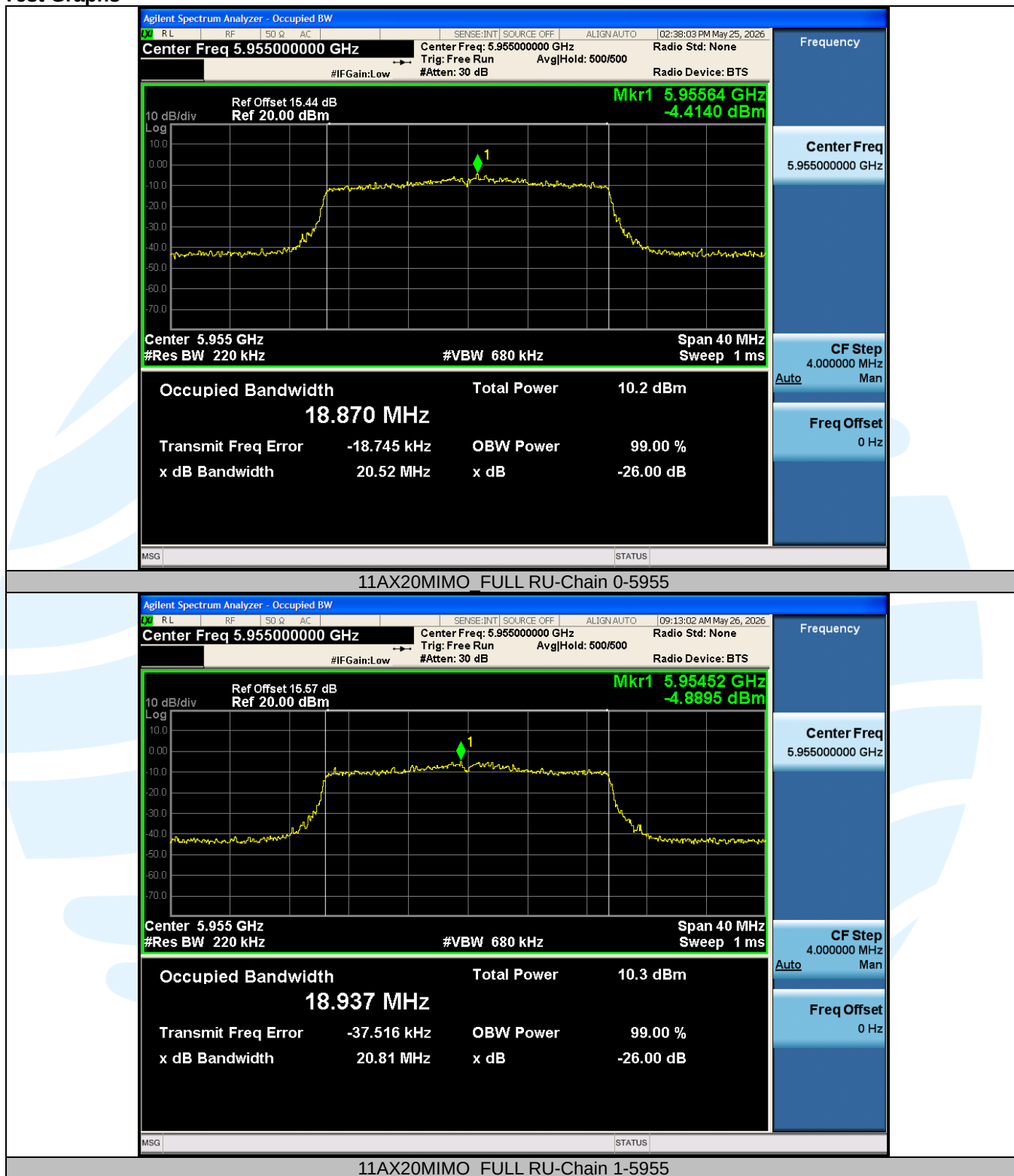
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Test Graphs



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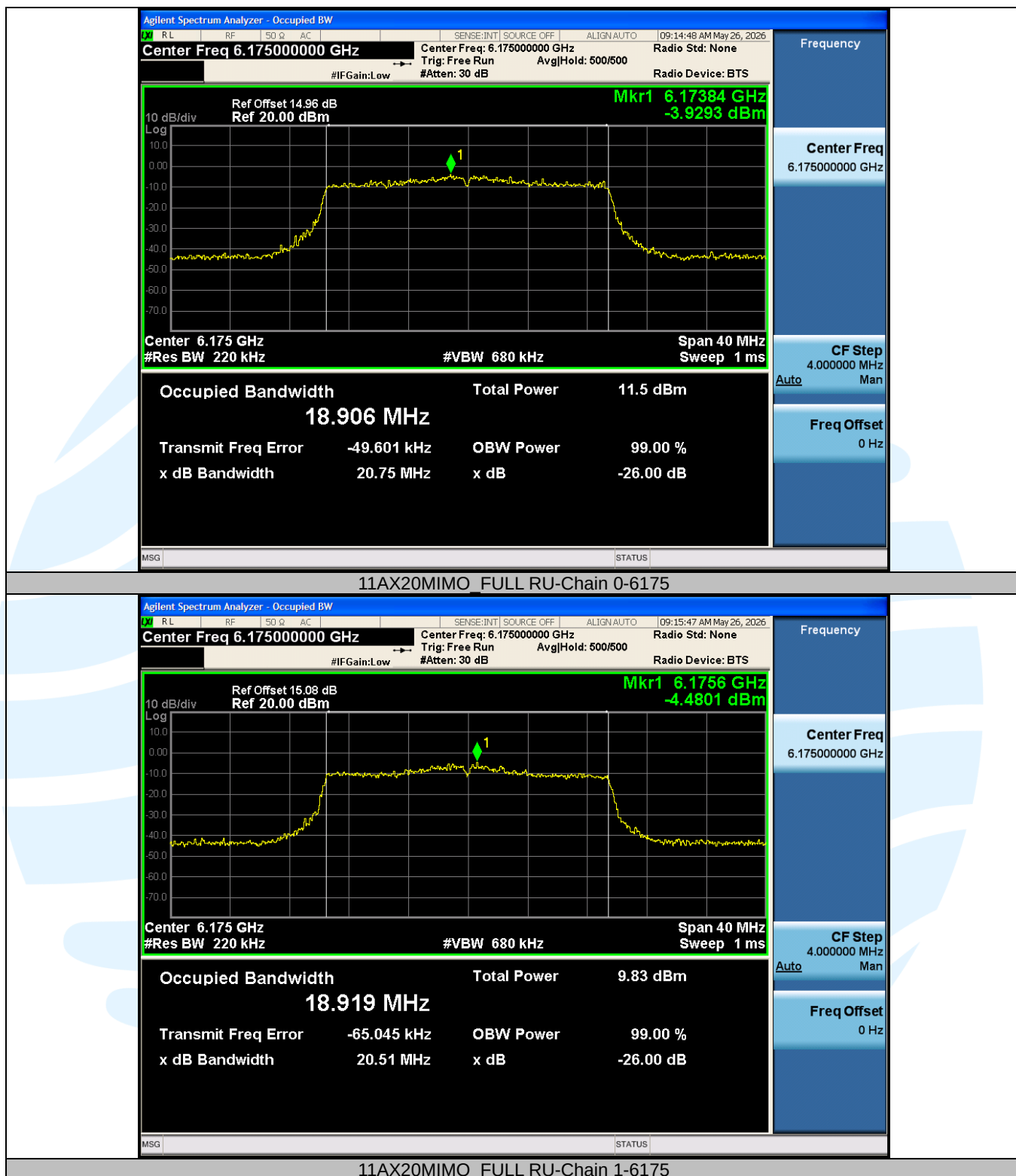
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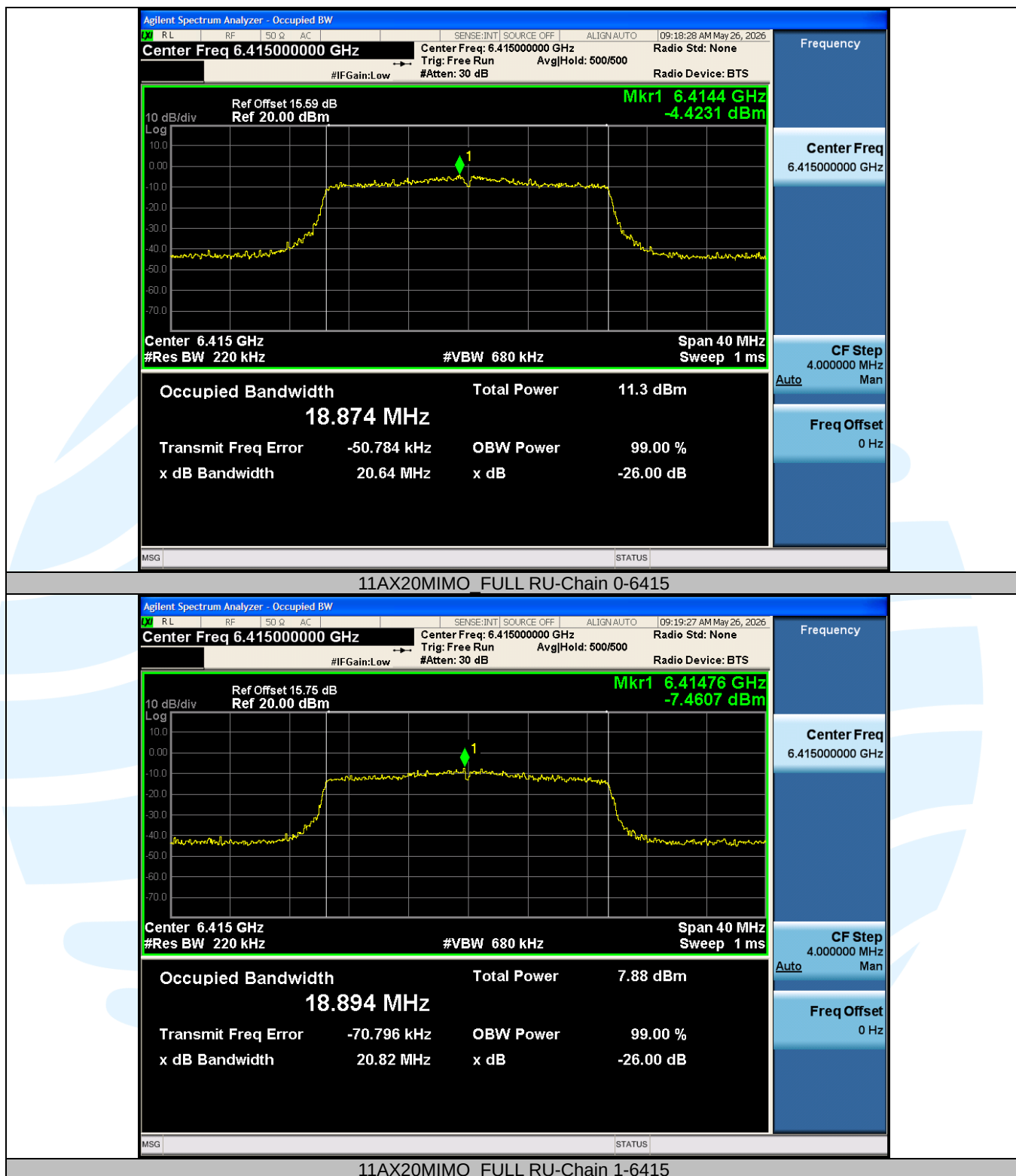
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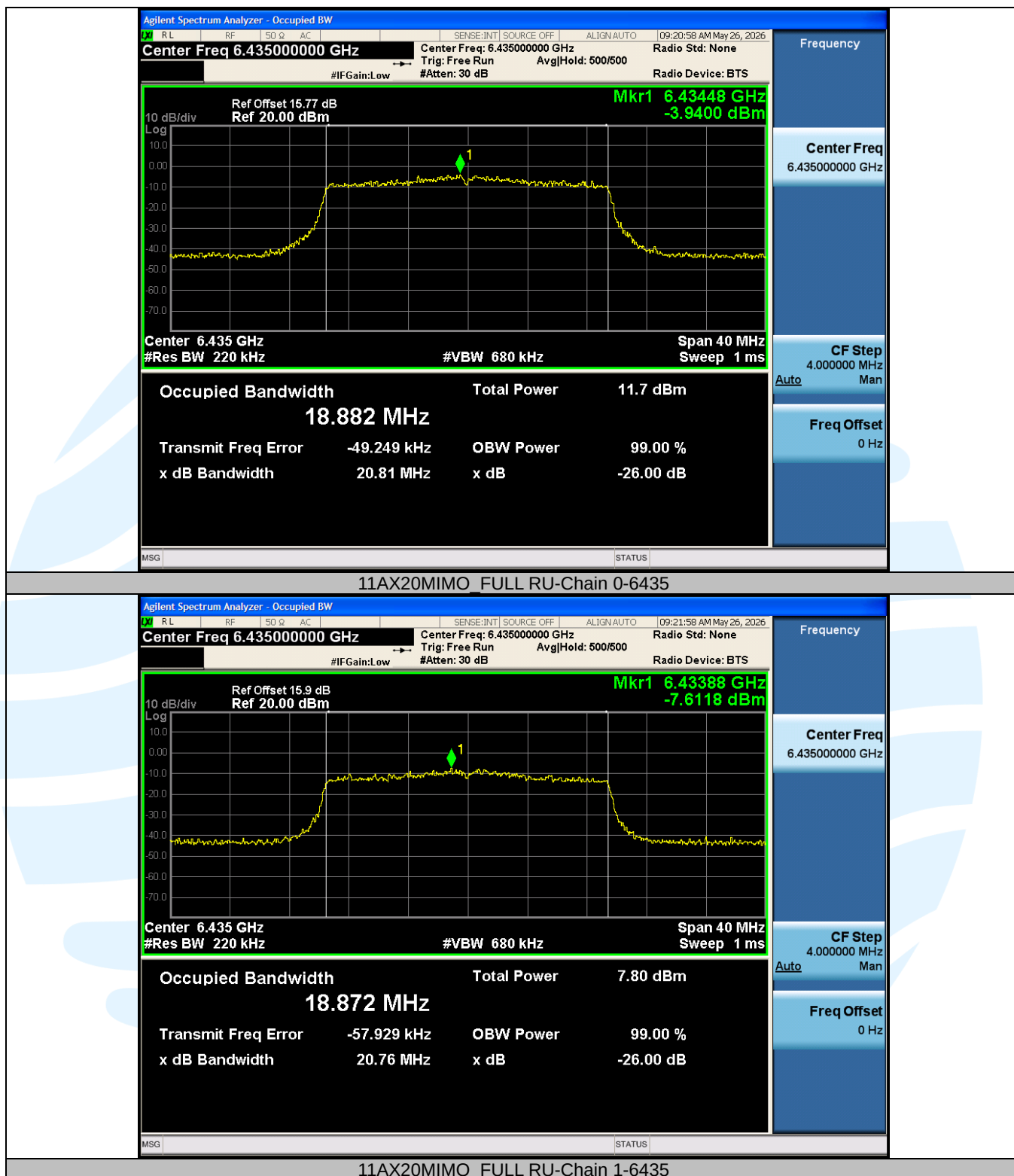
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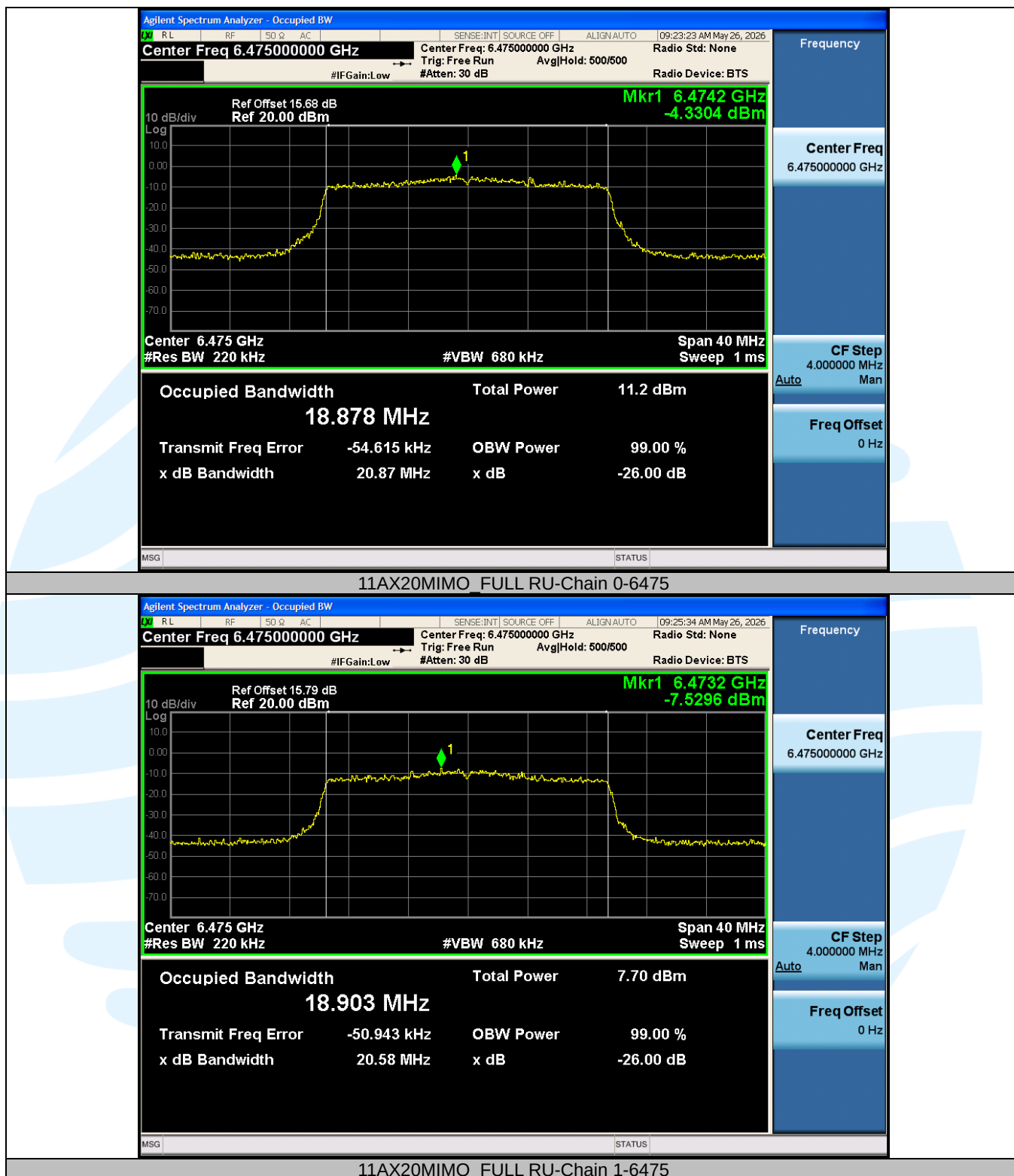
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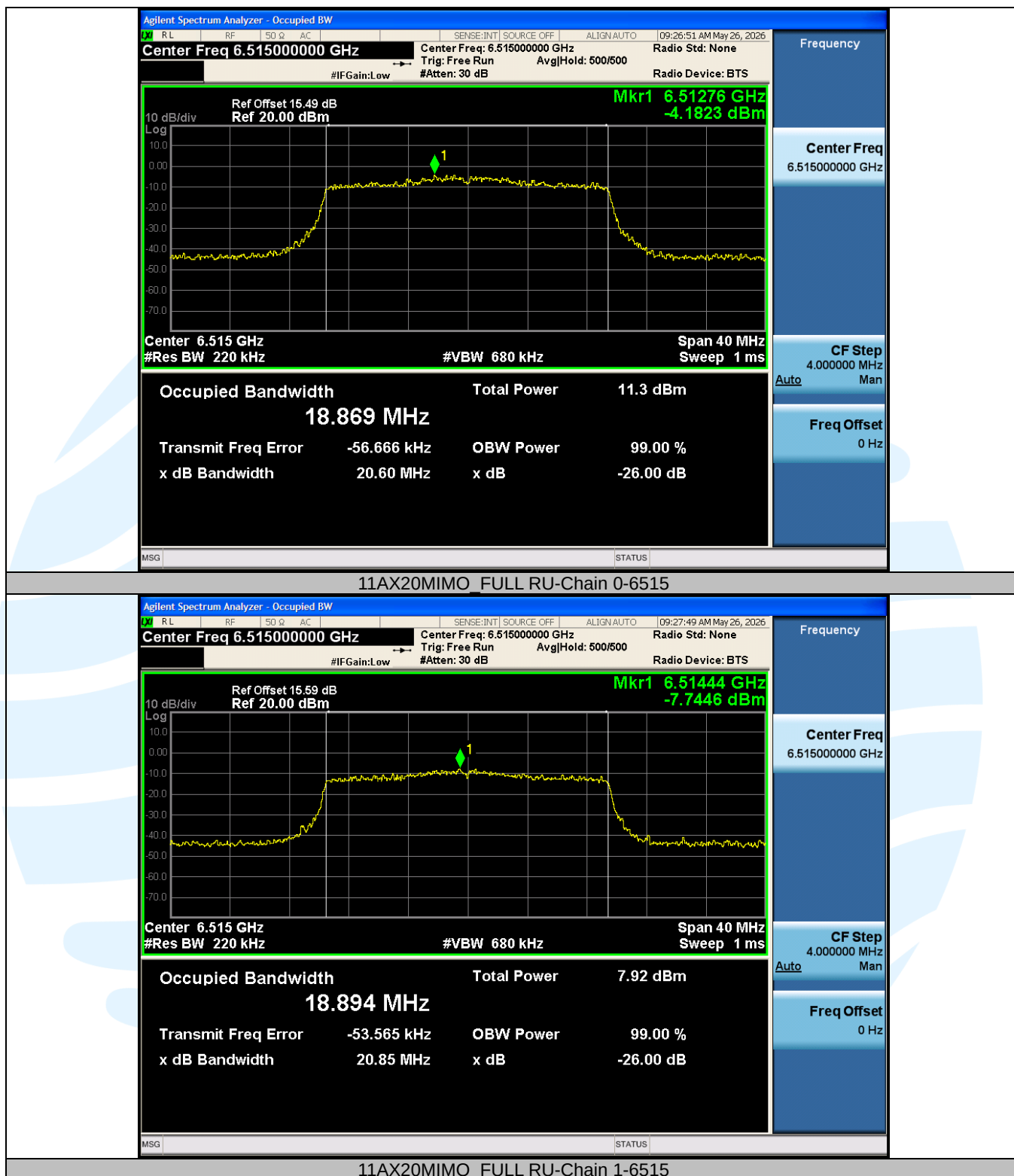
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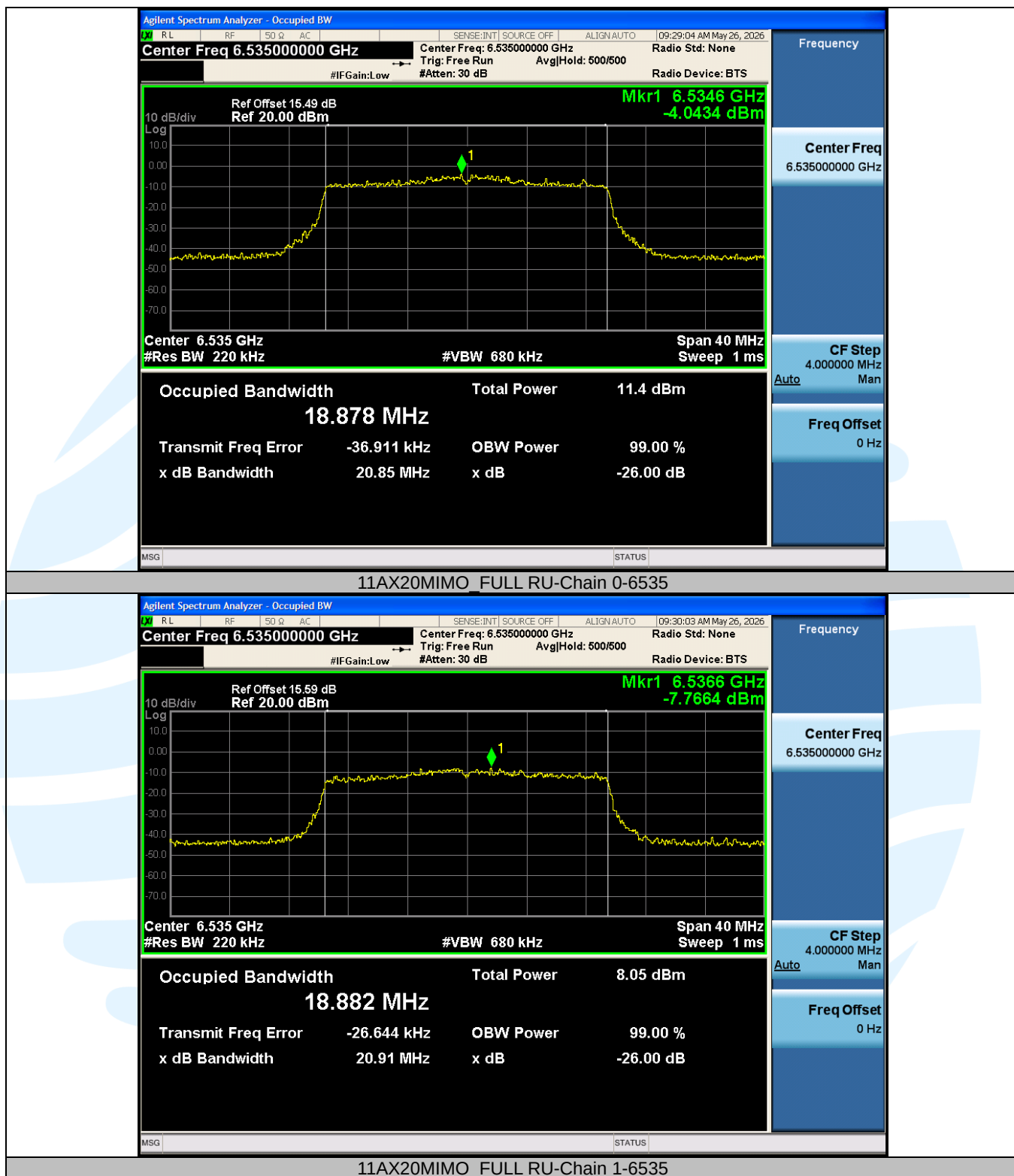
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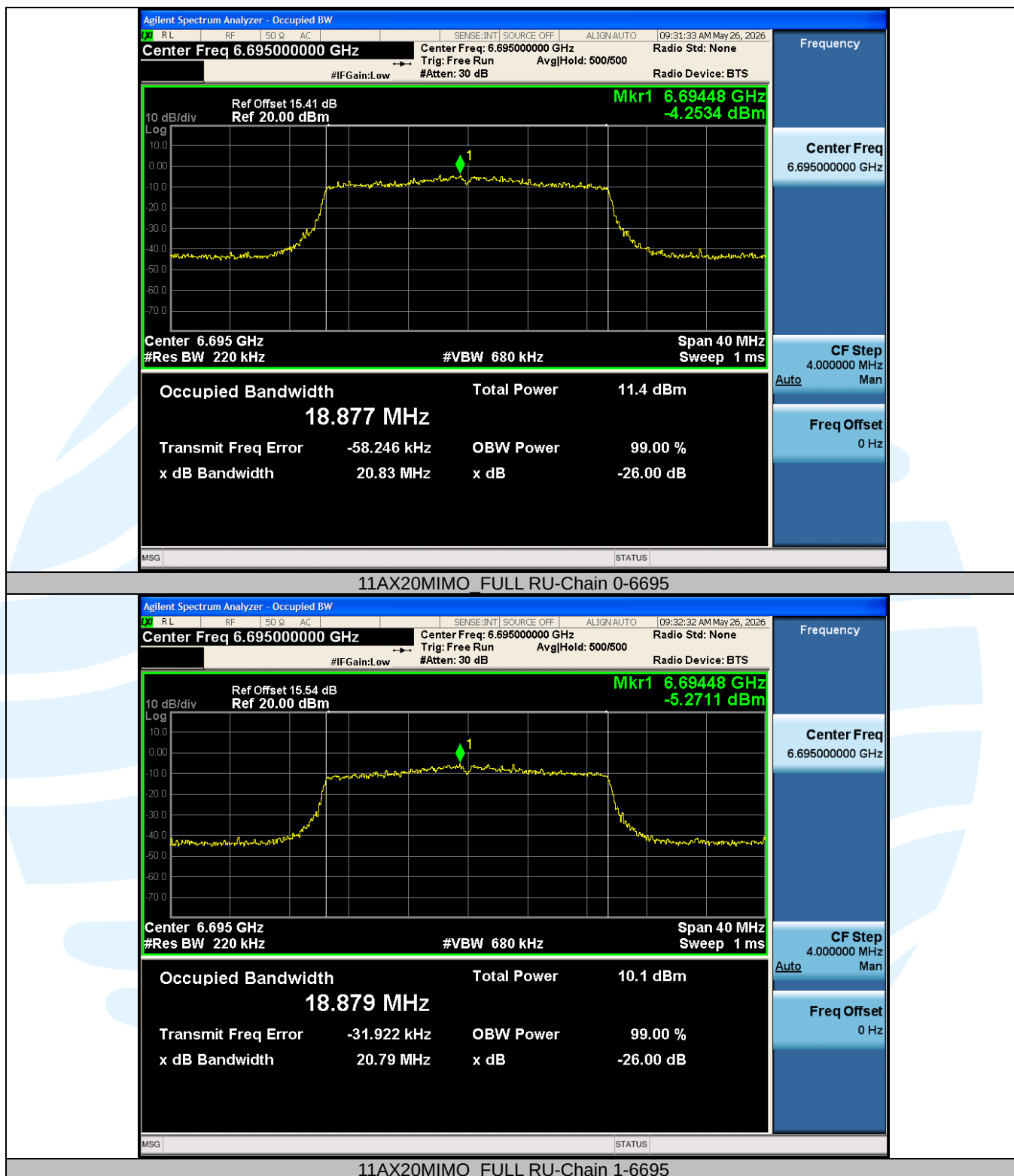
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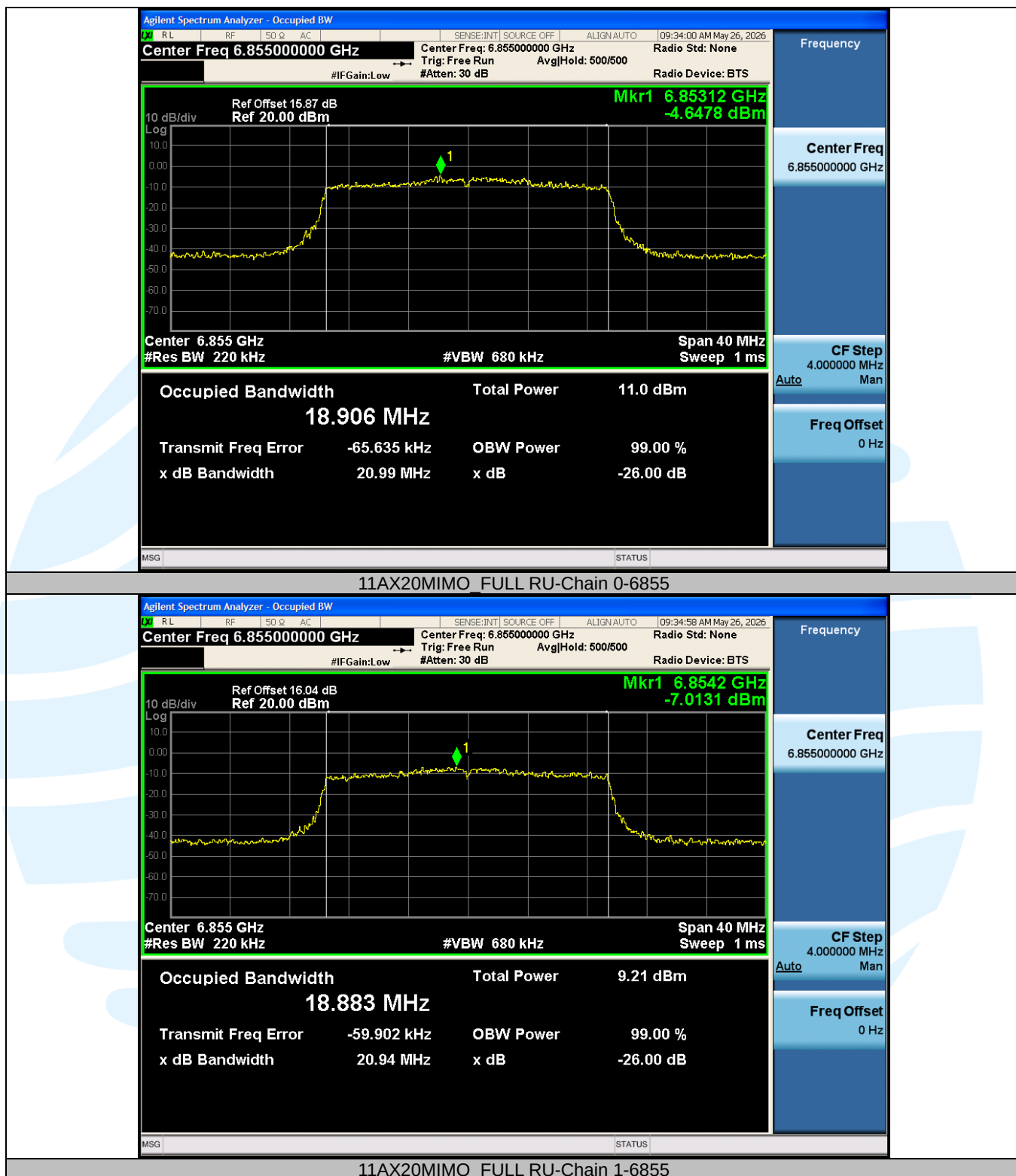
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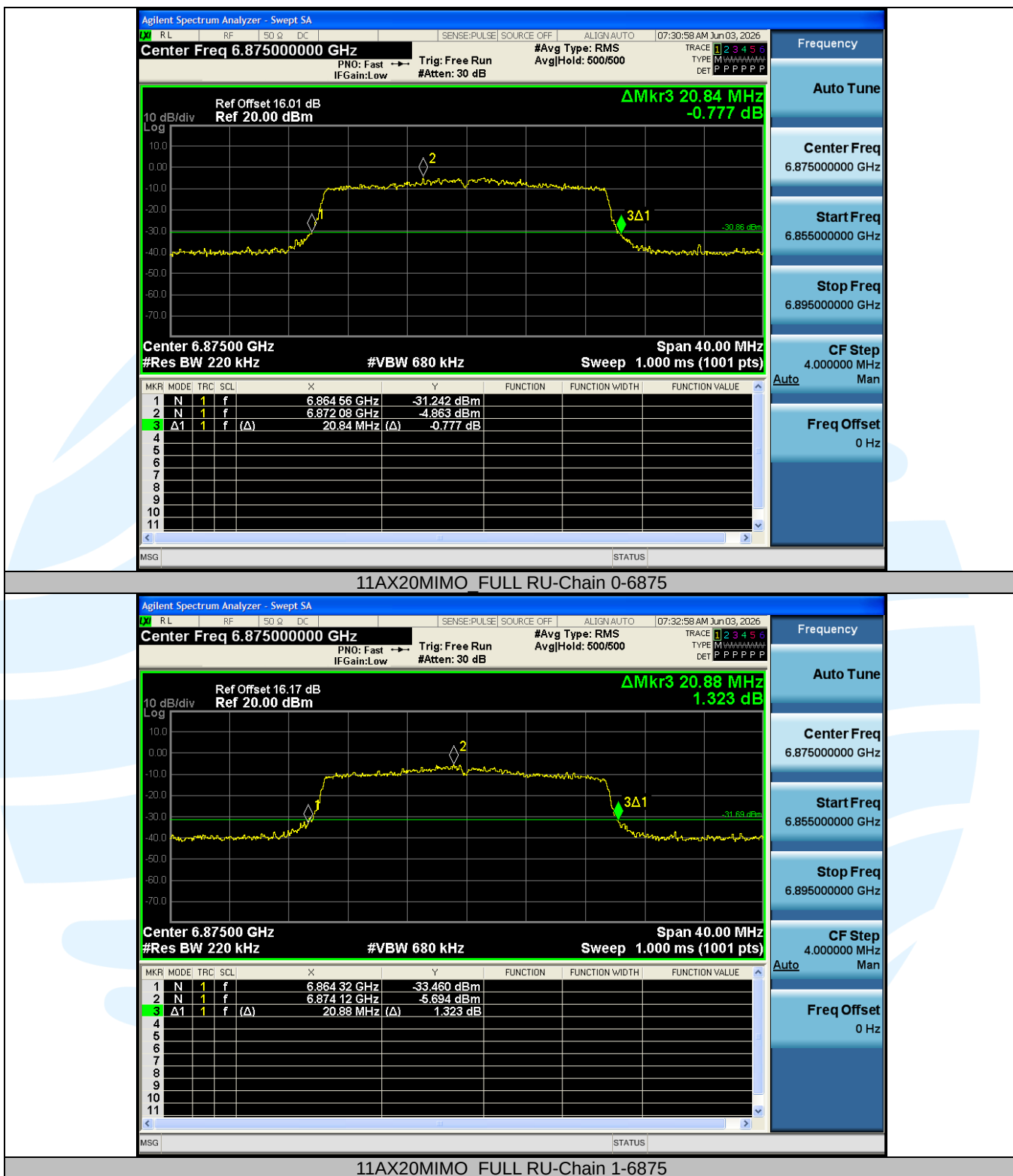
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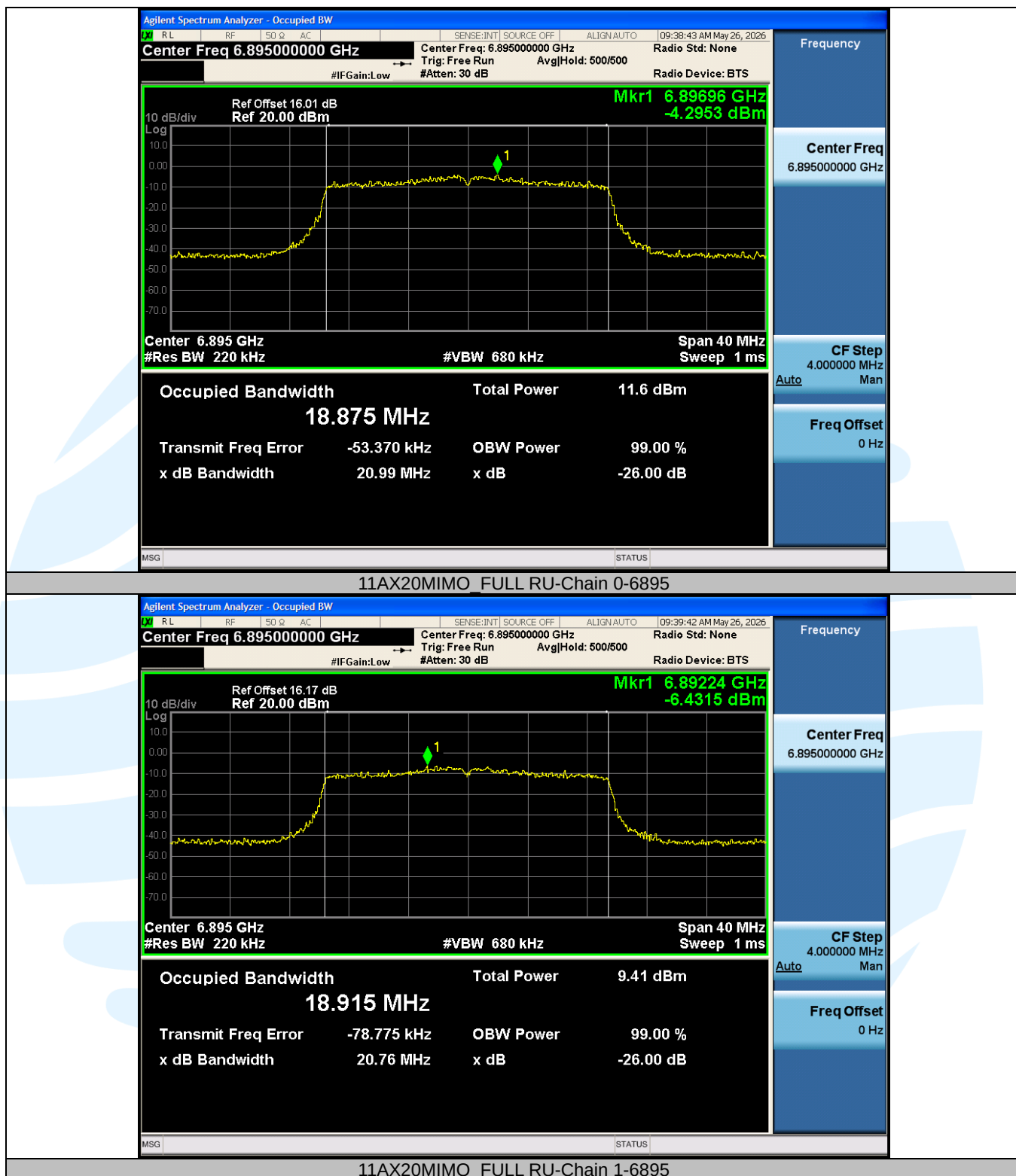
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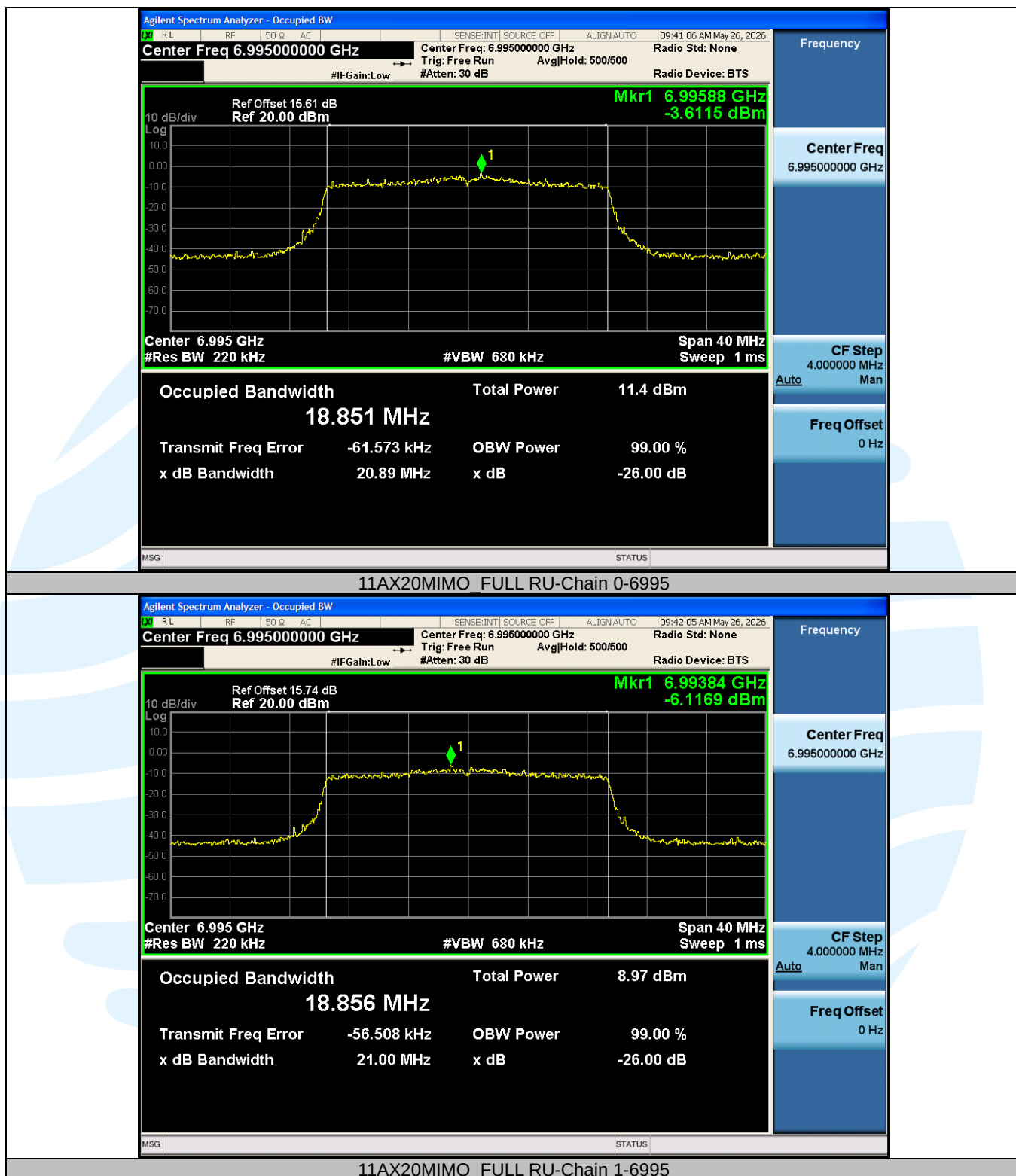
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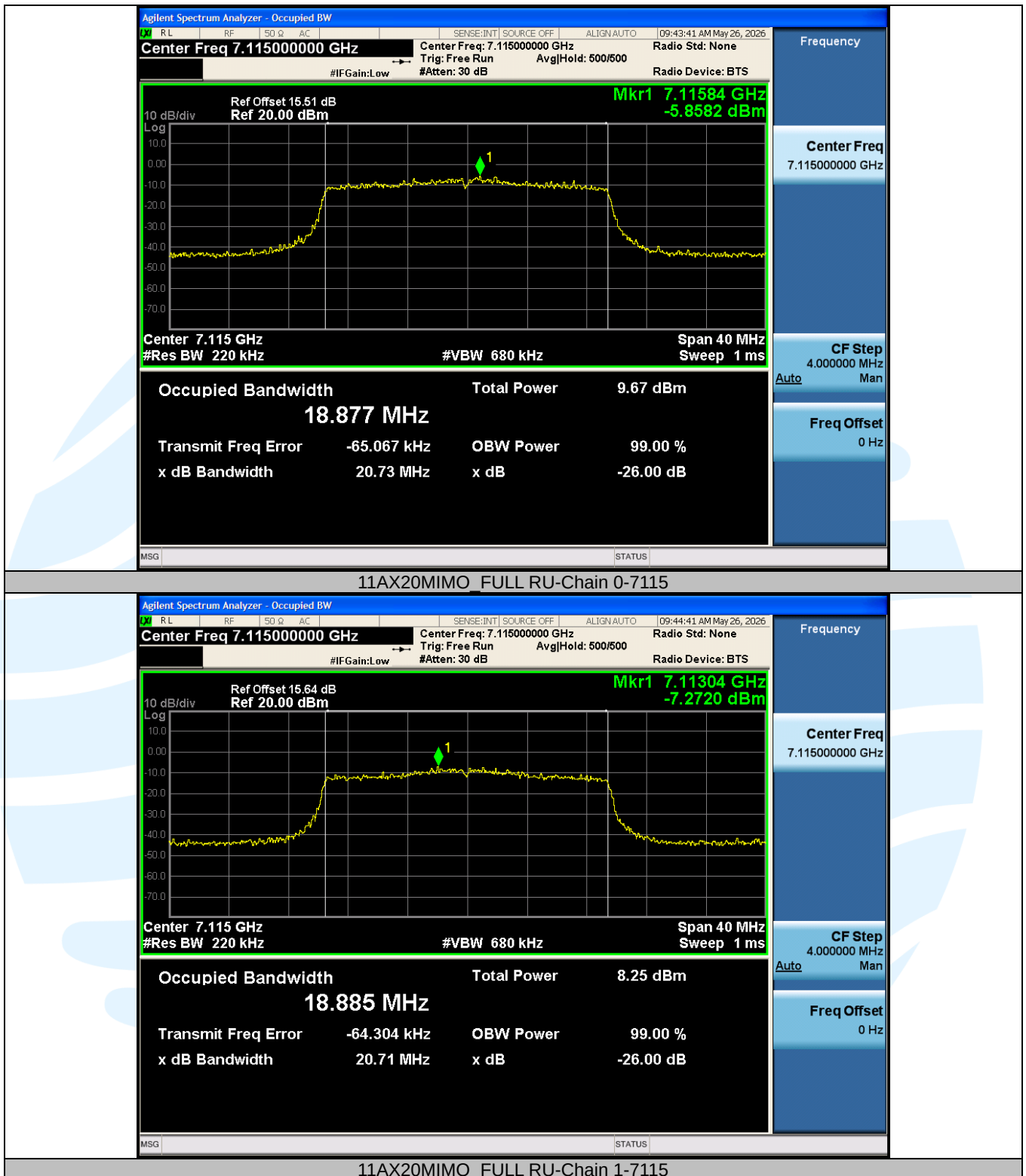
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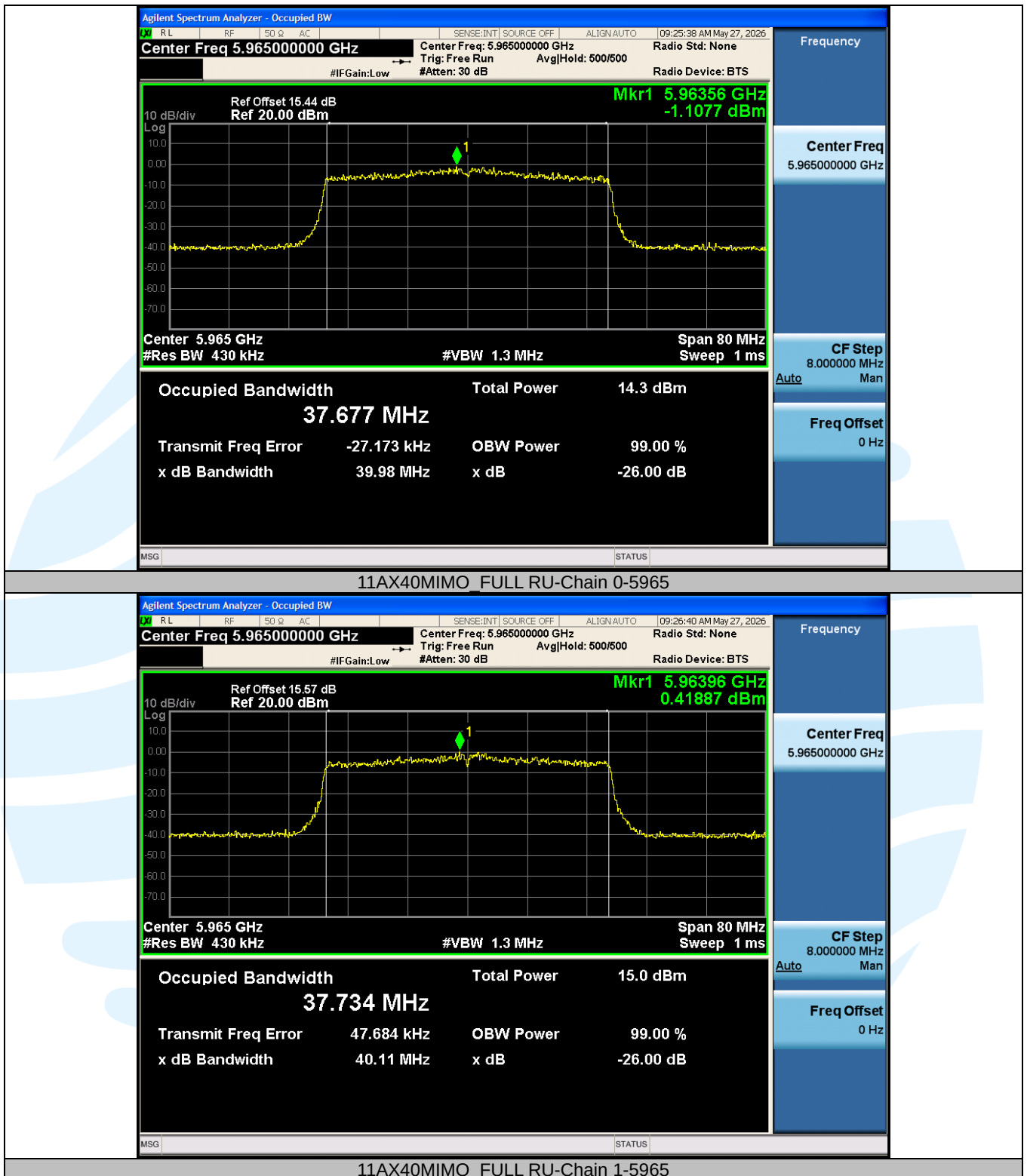
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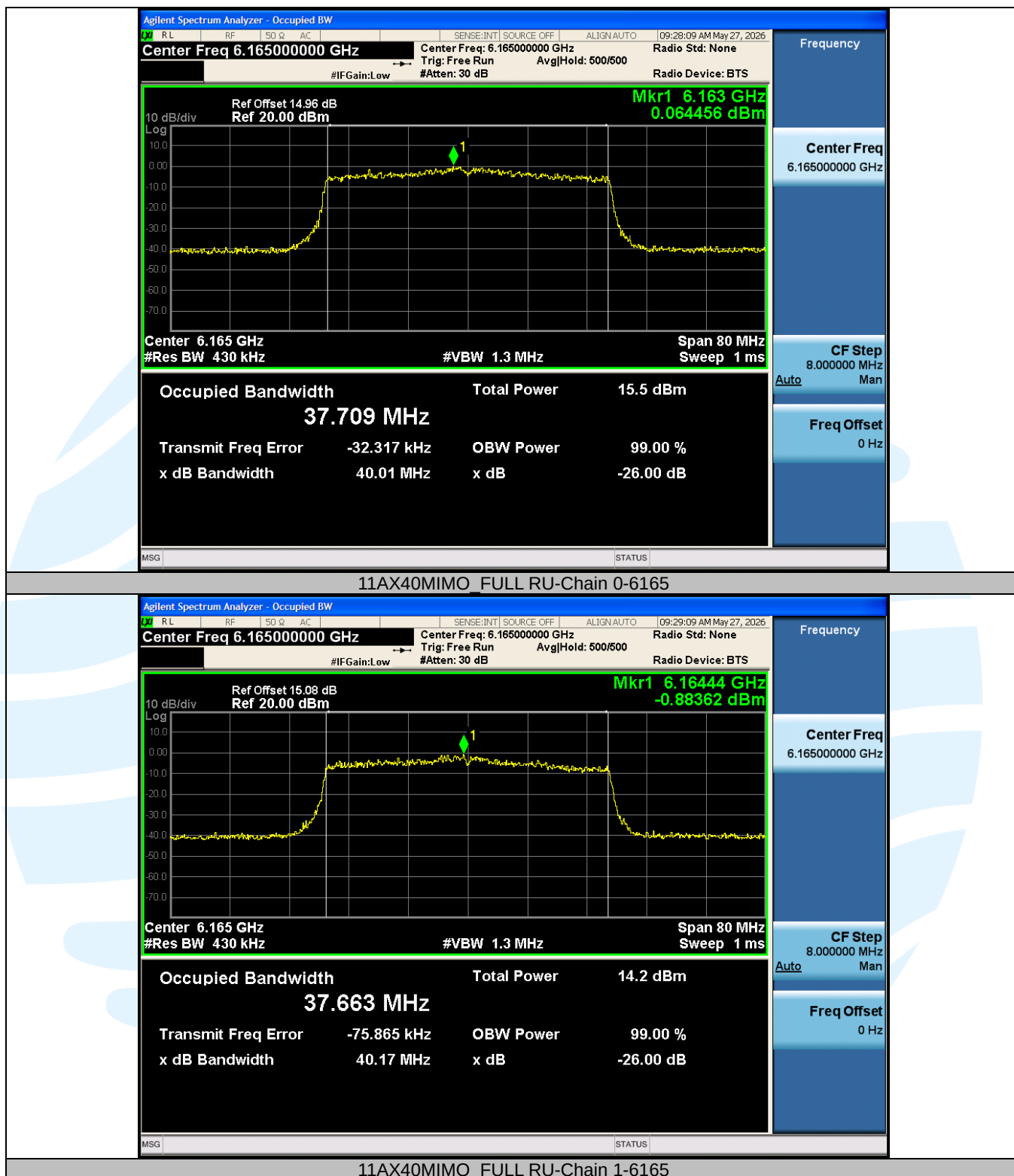
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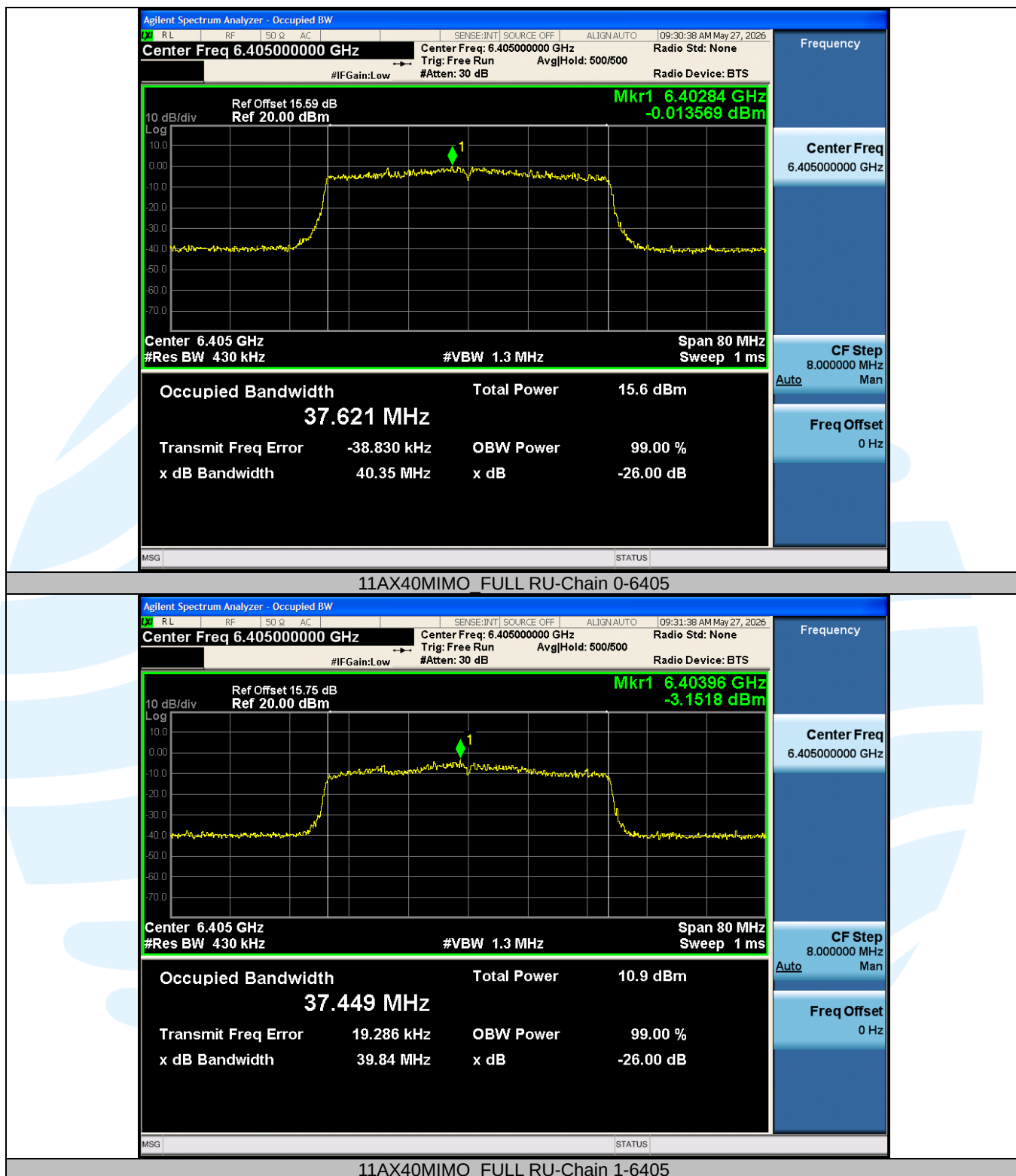
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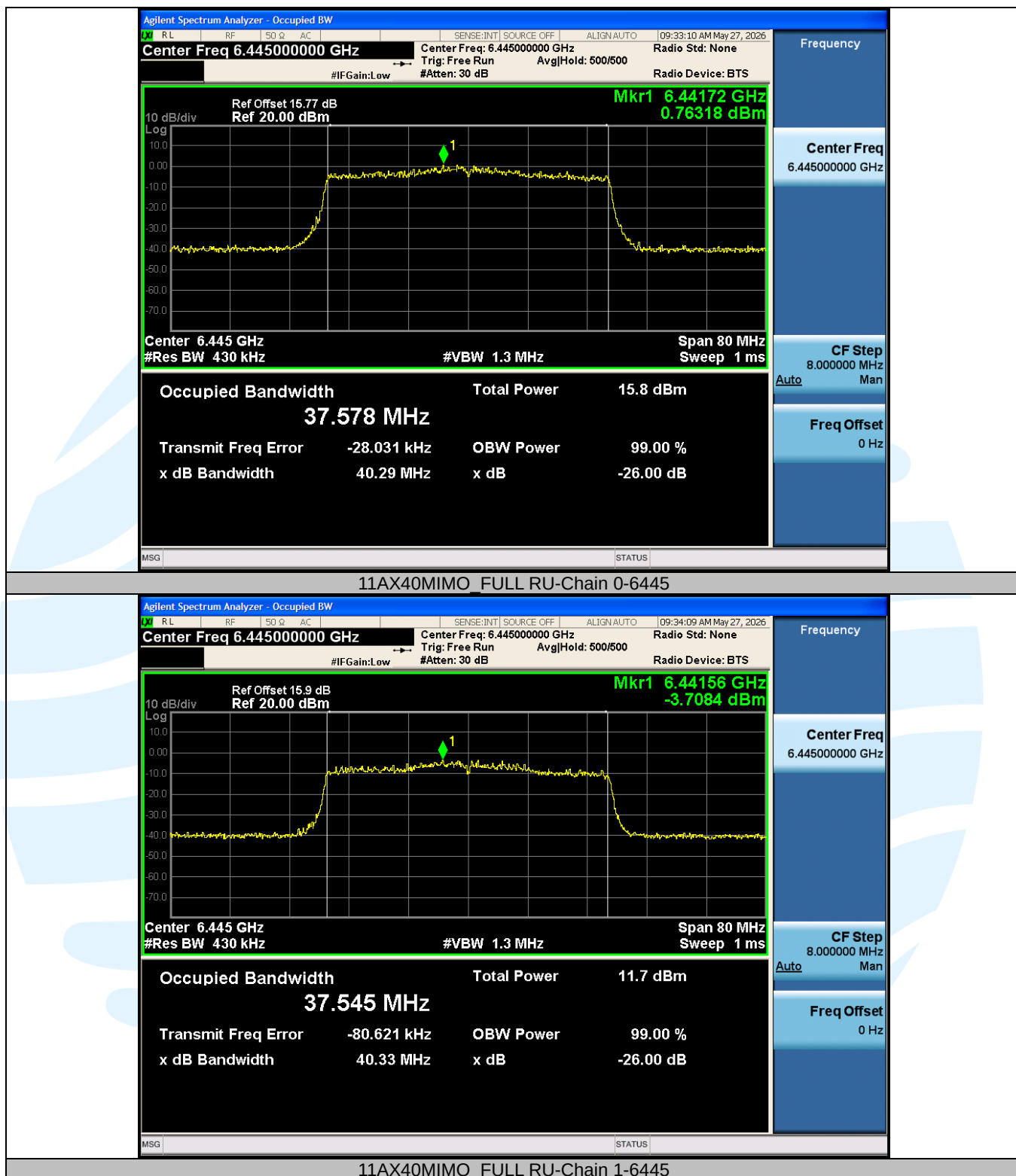
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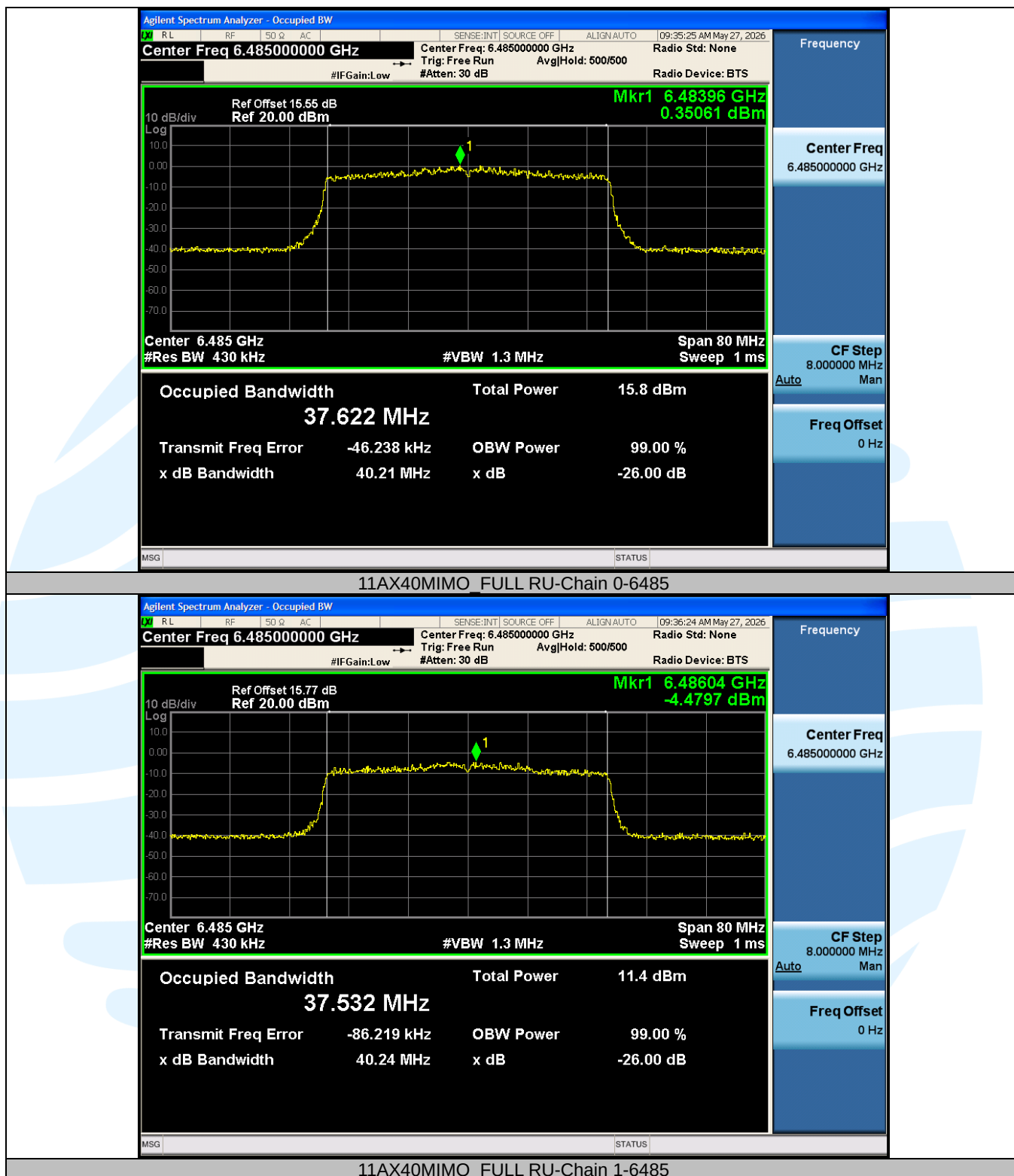
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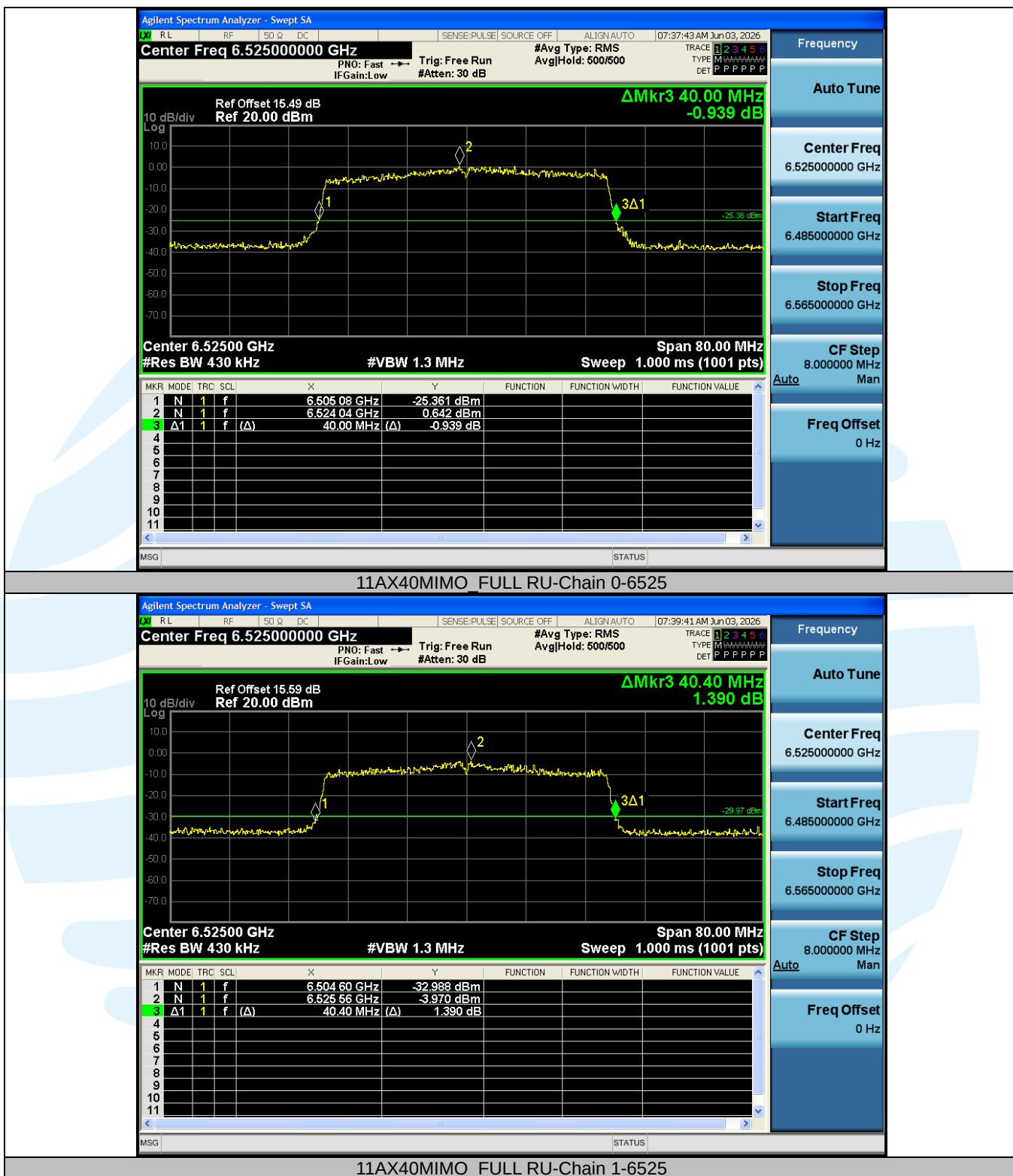
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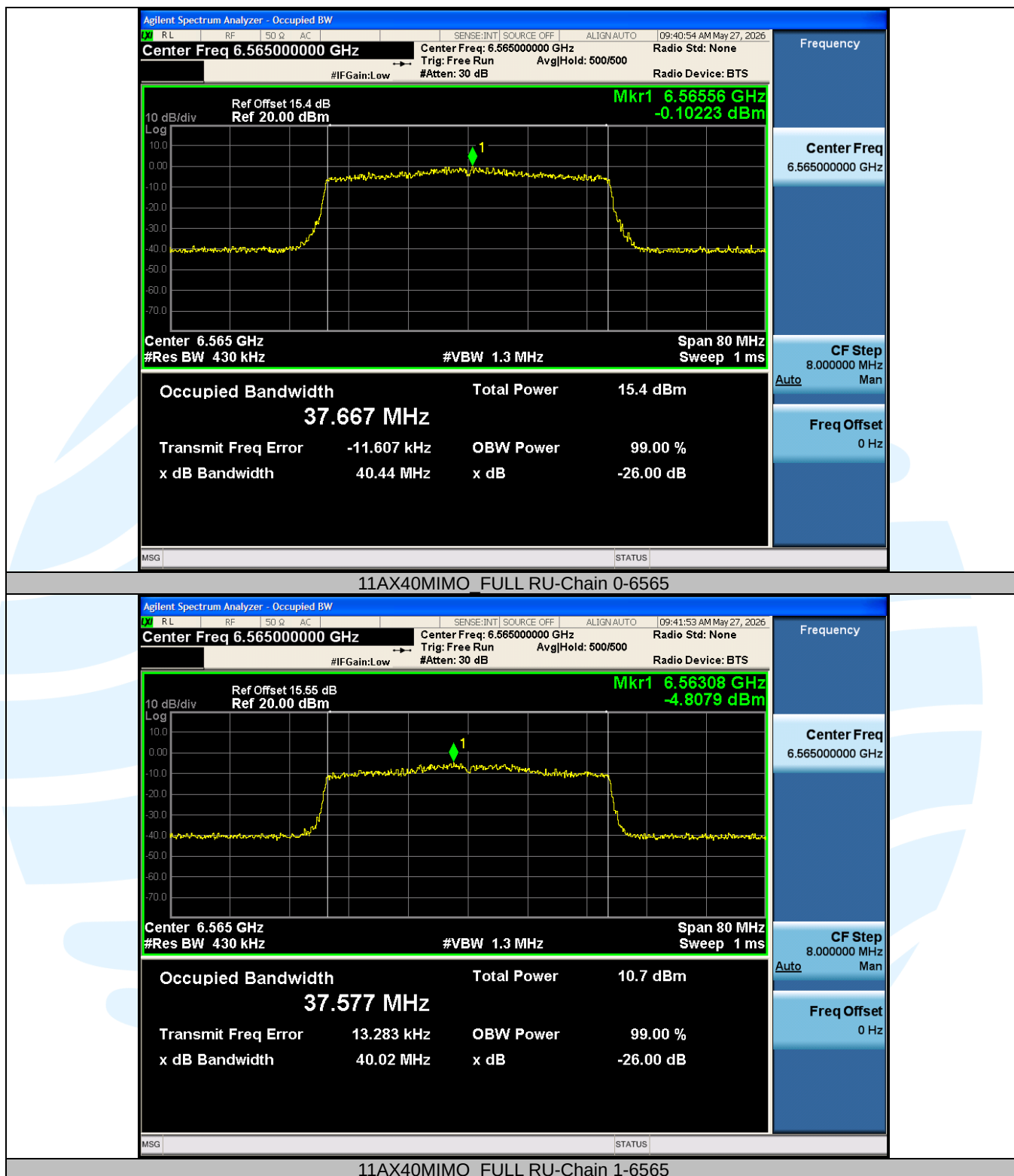
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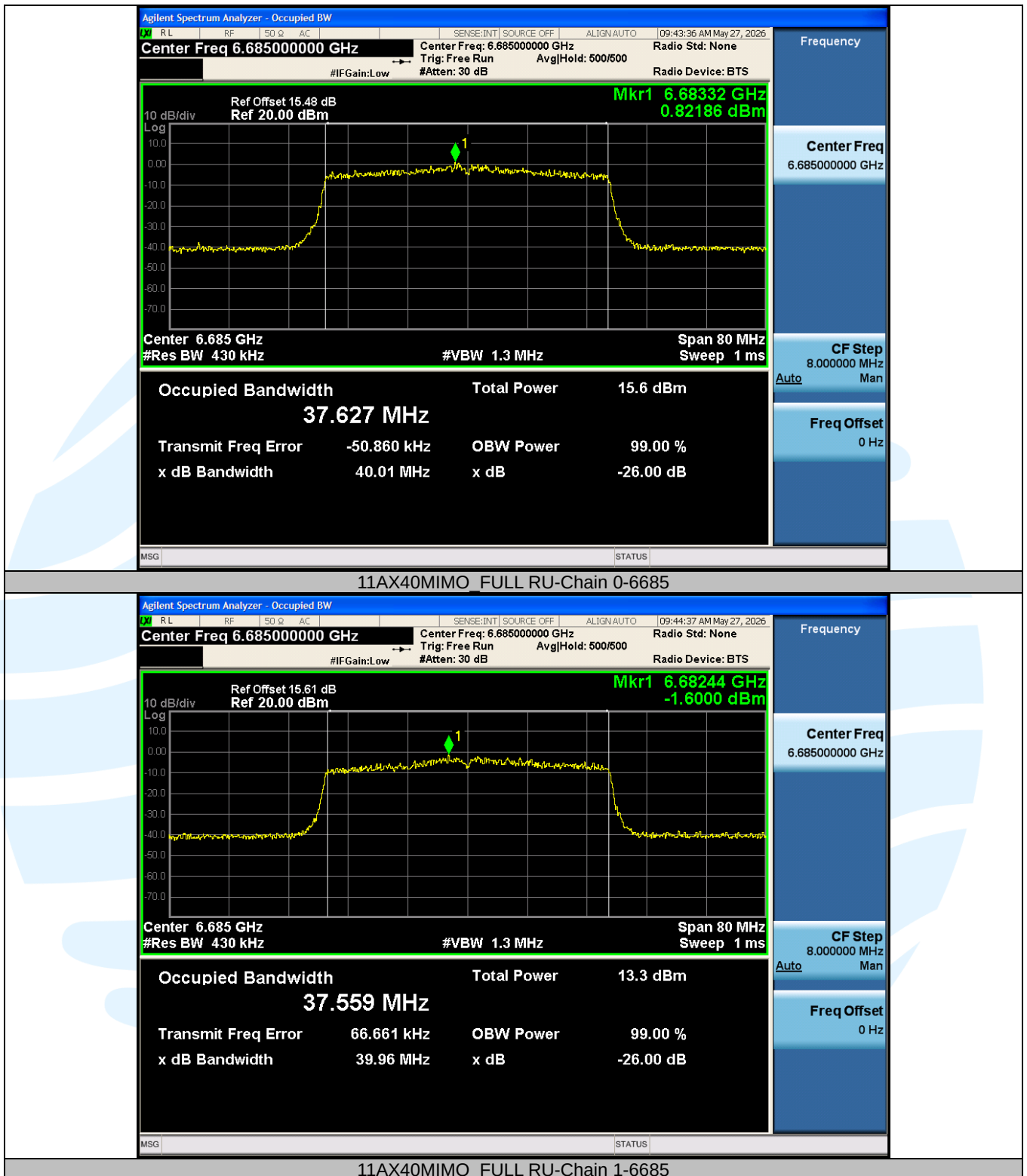
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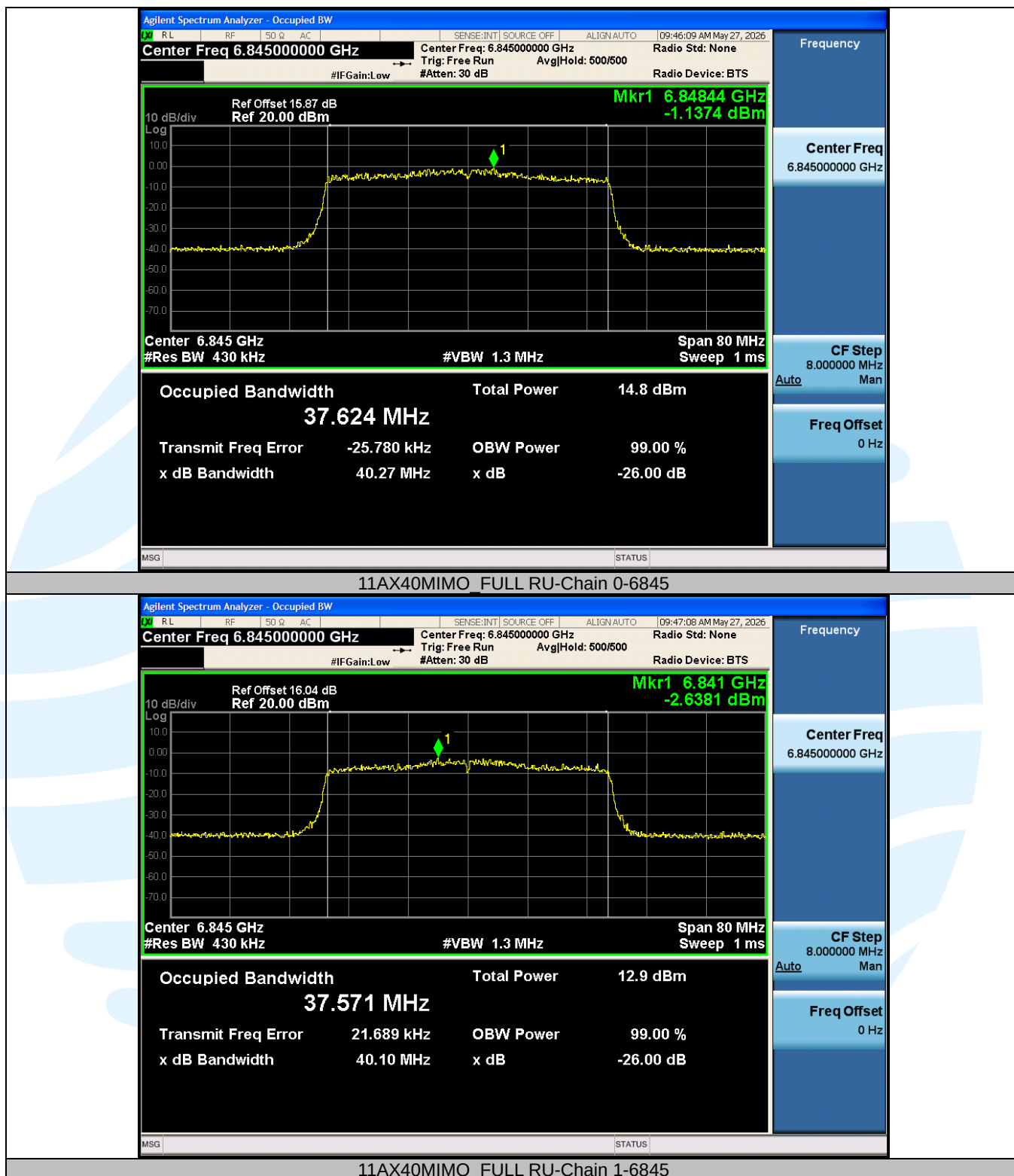
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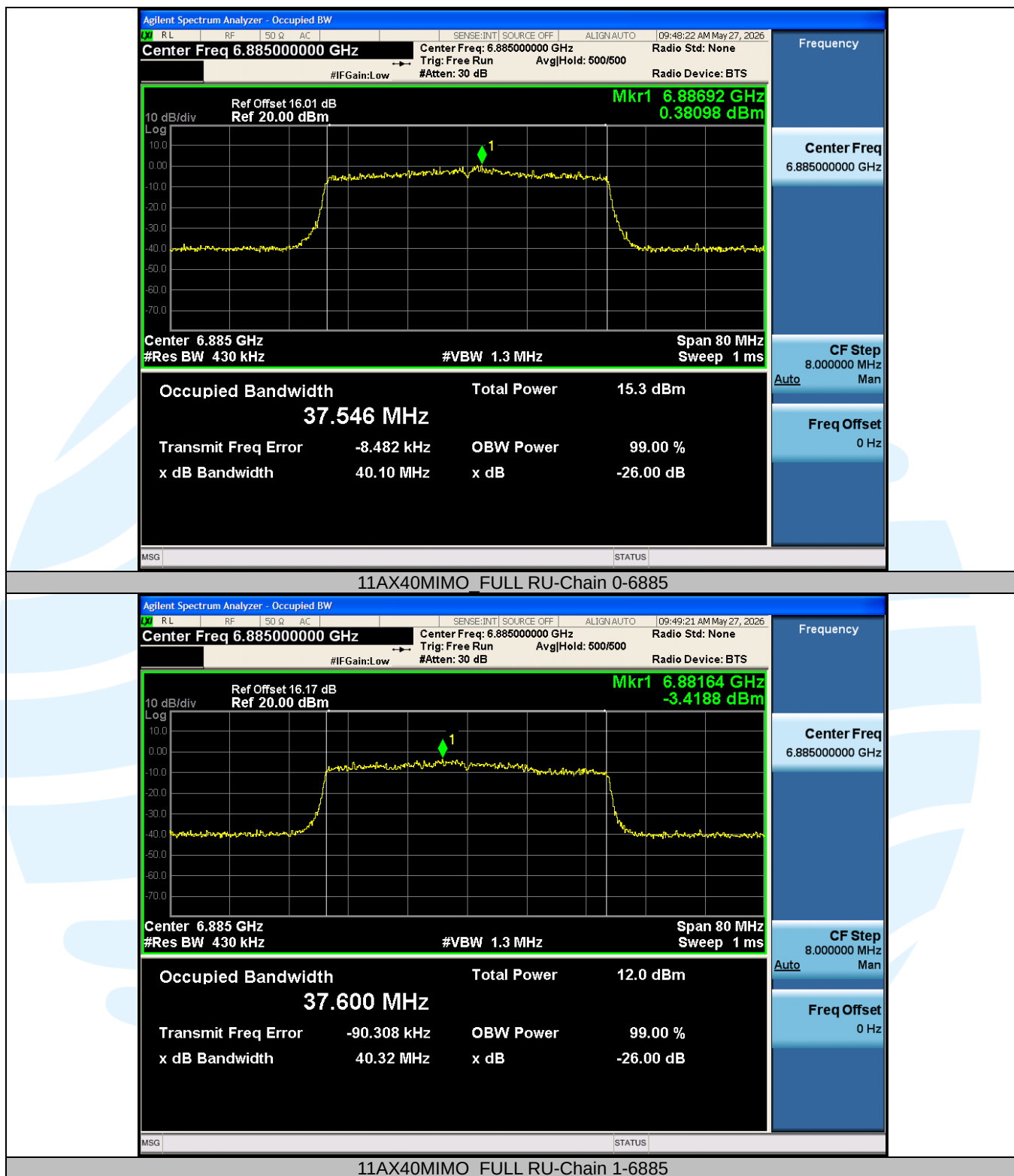
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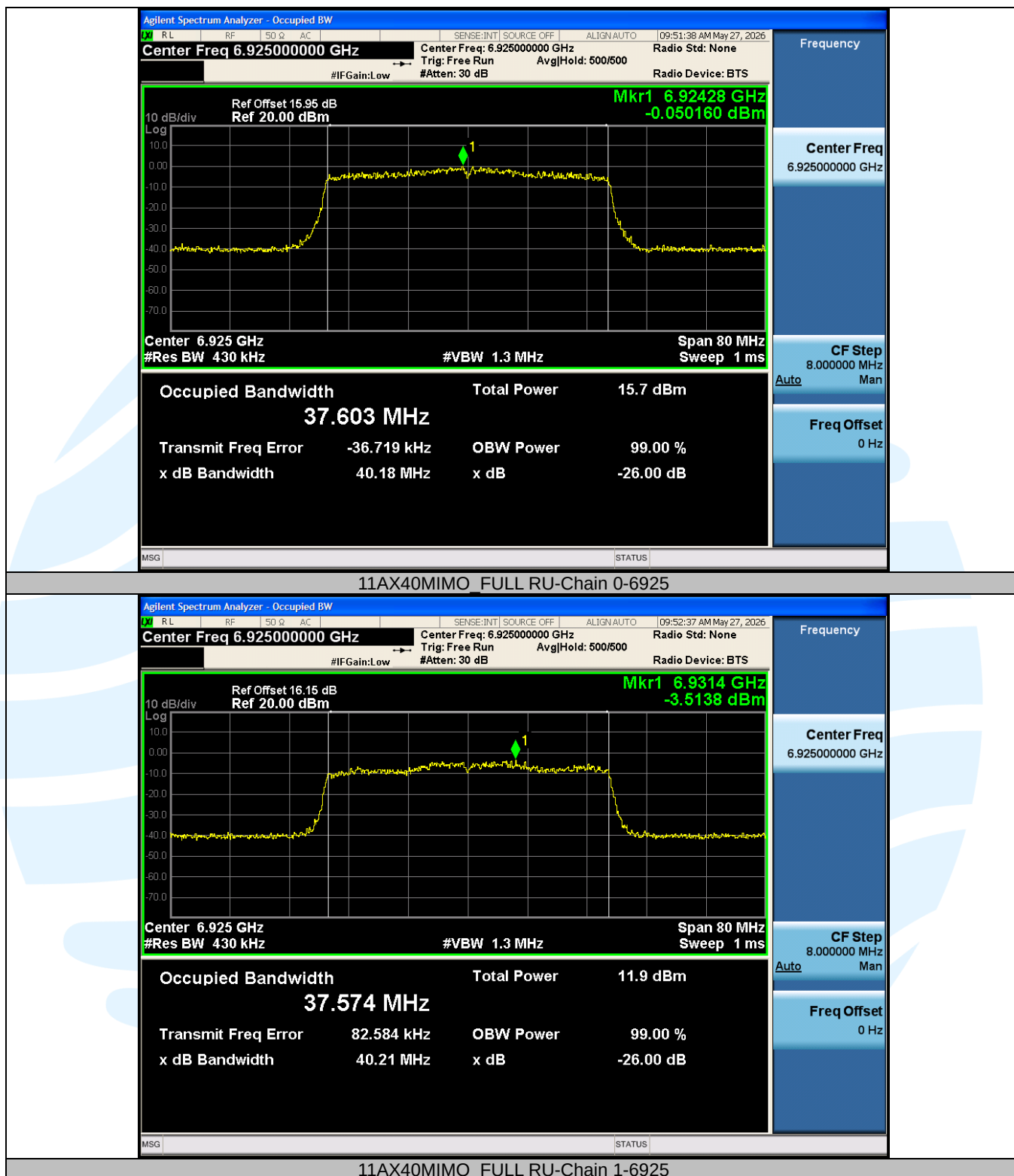
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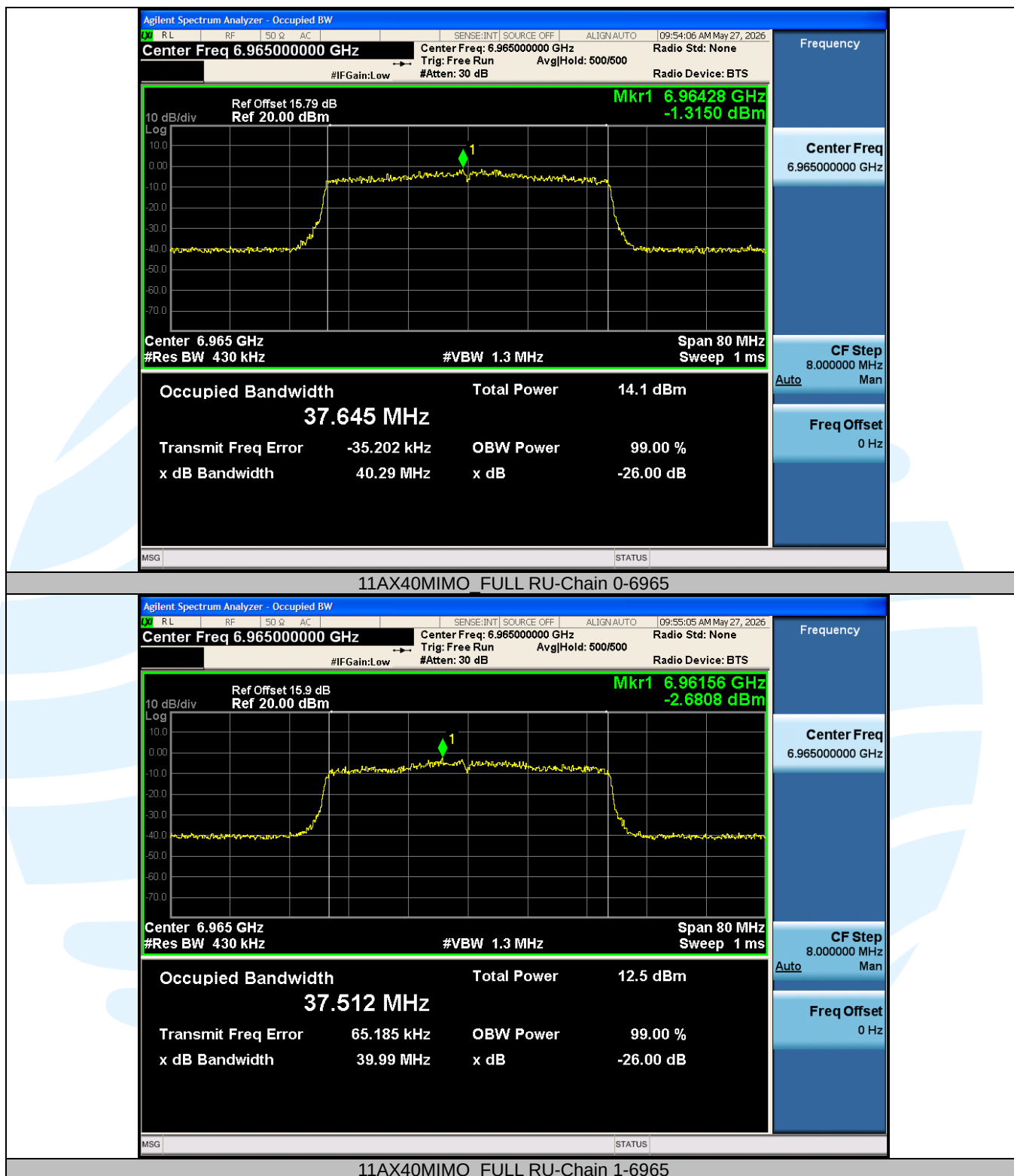
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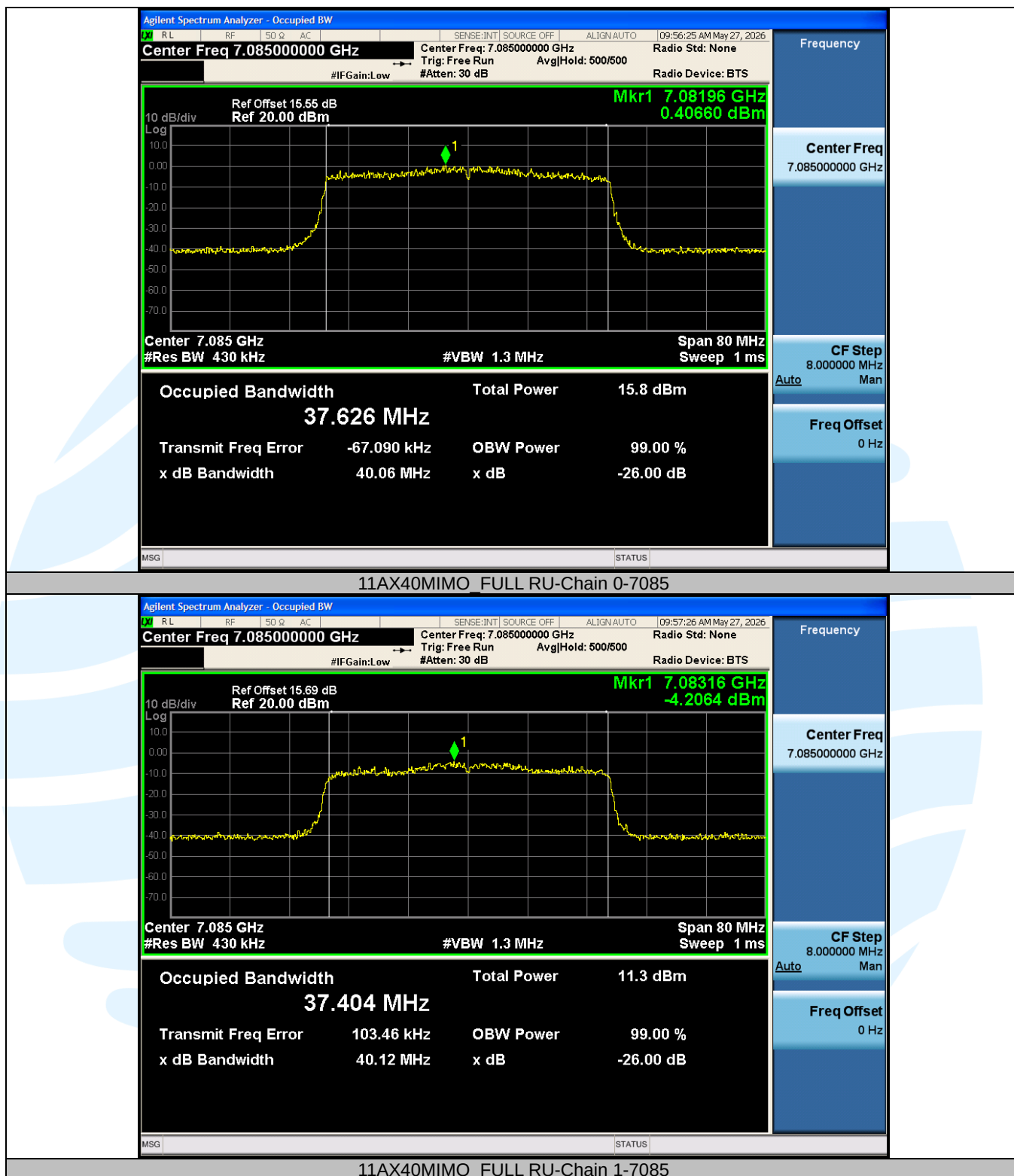
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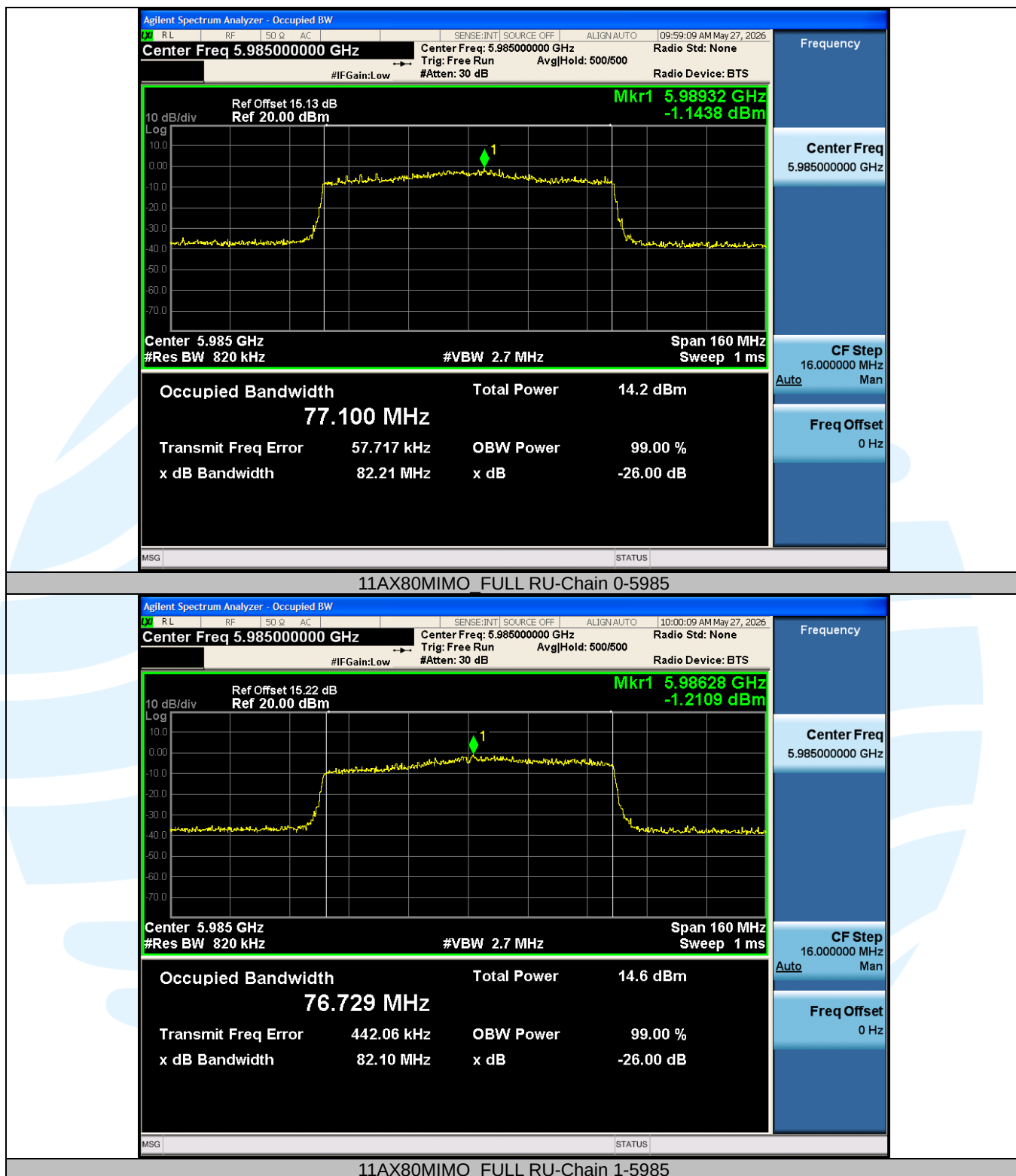
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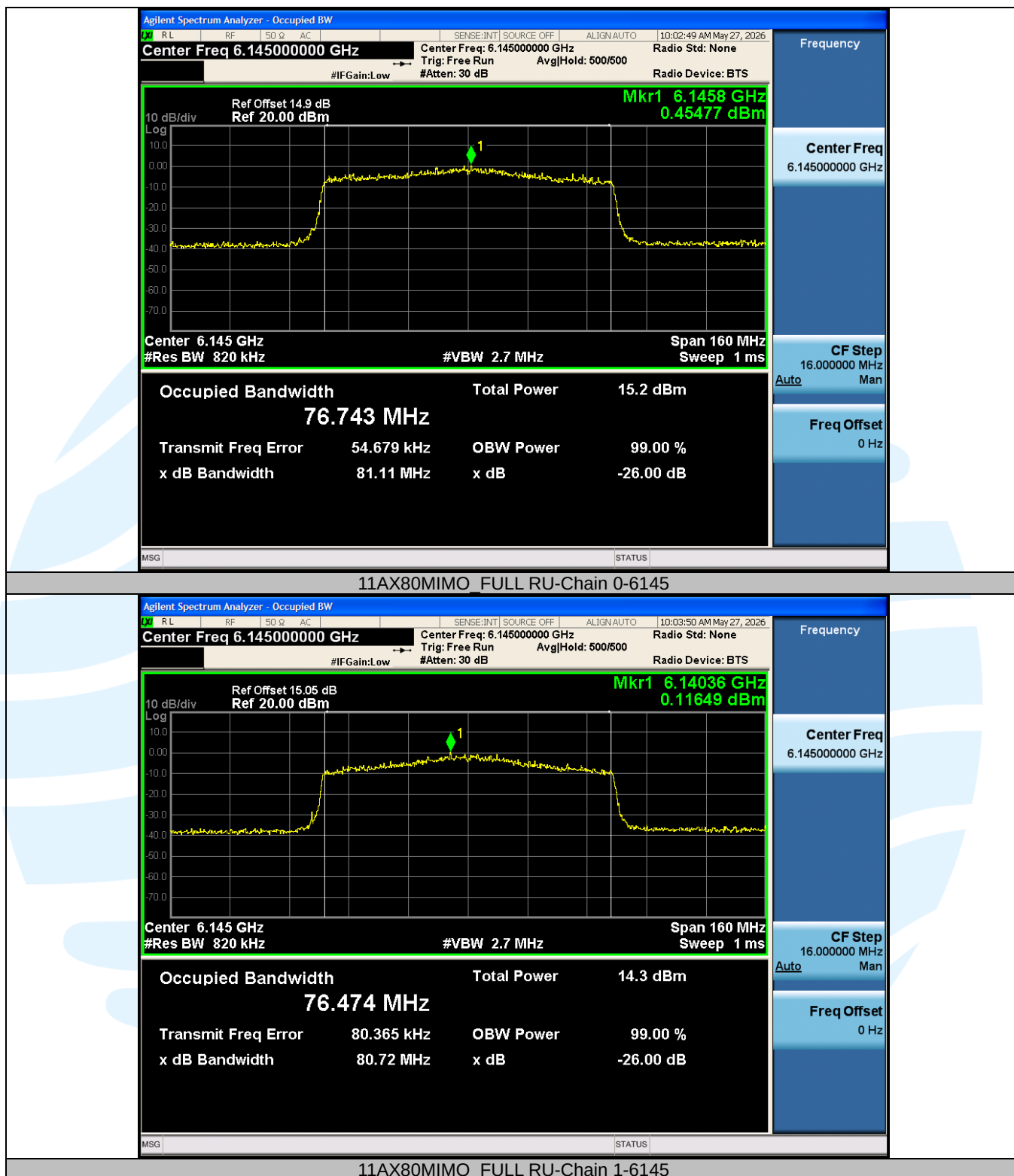
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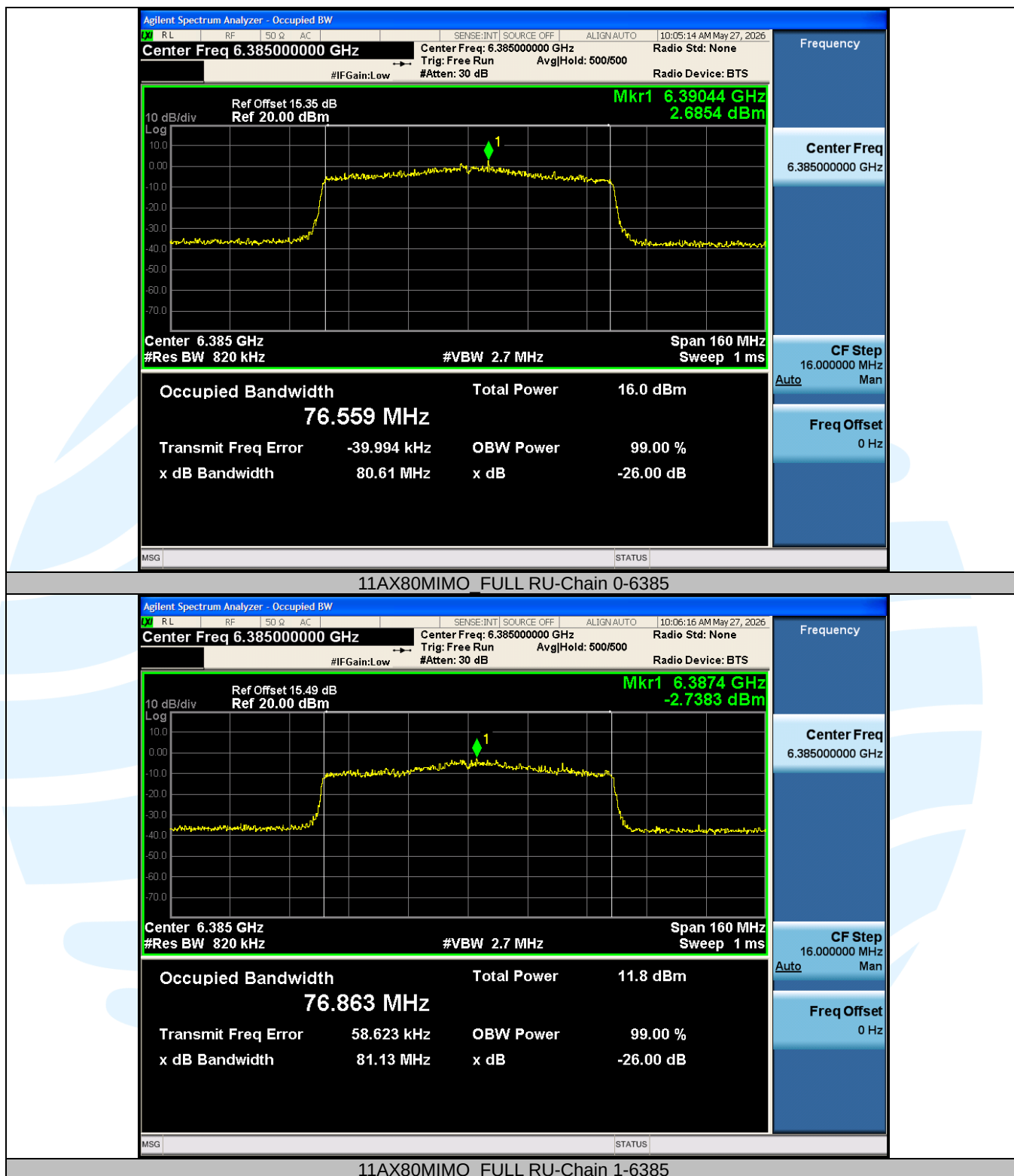
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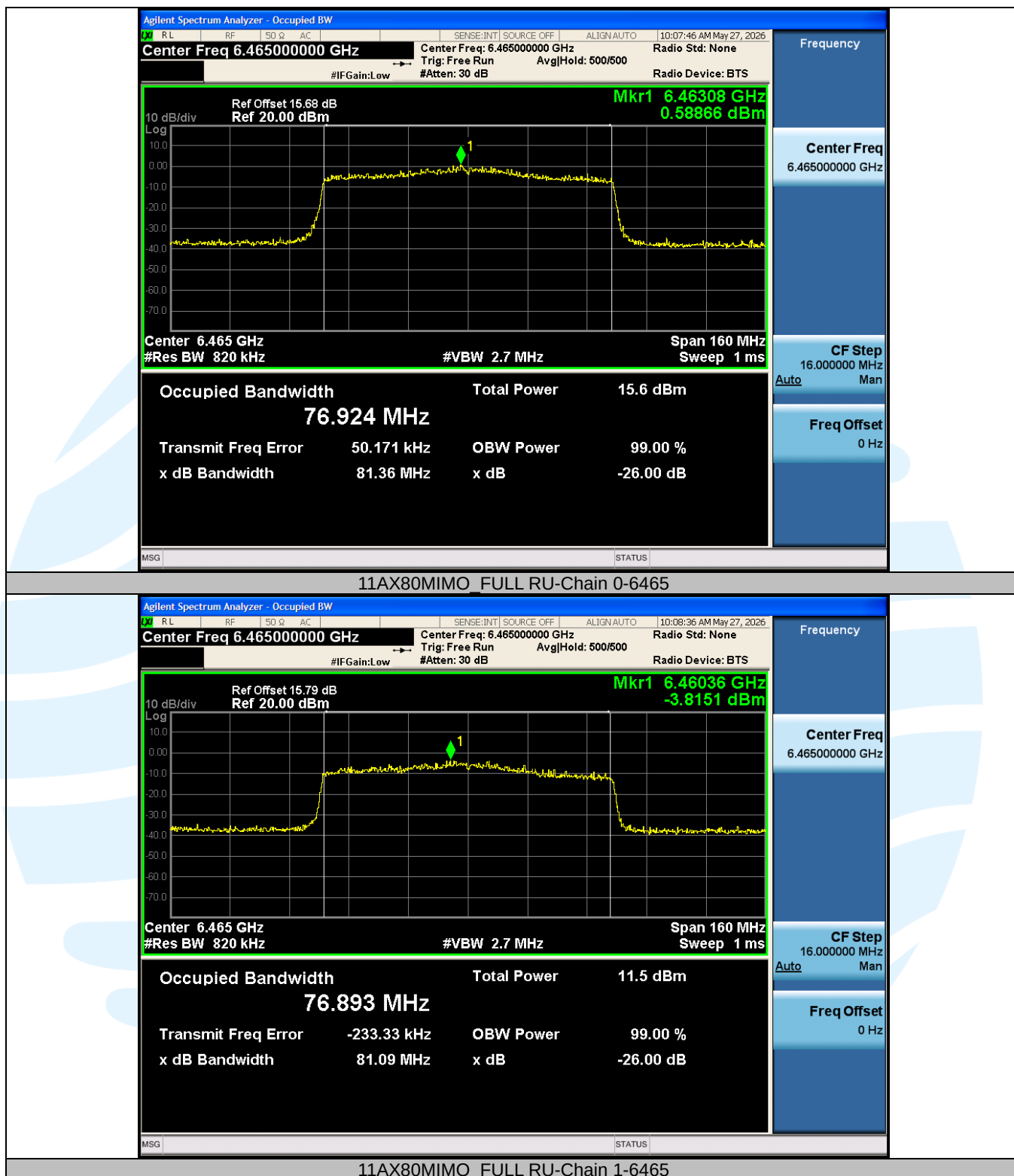
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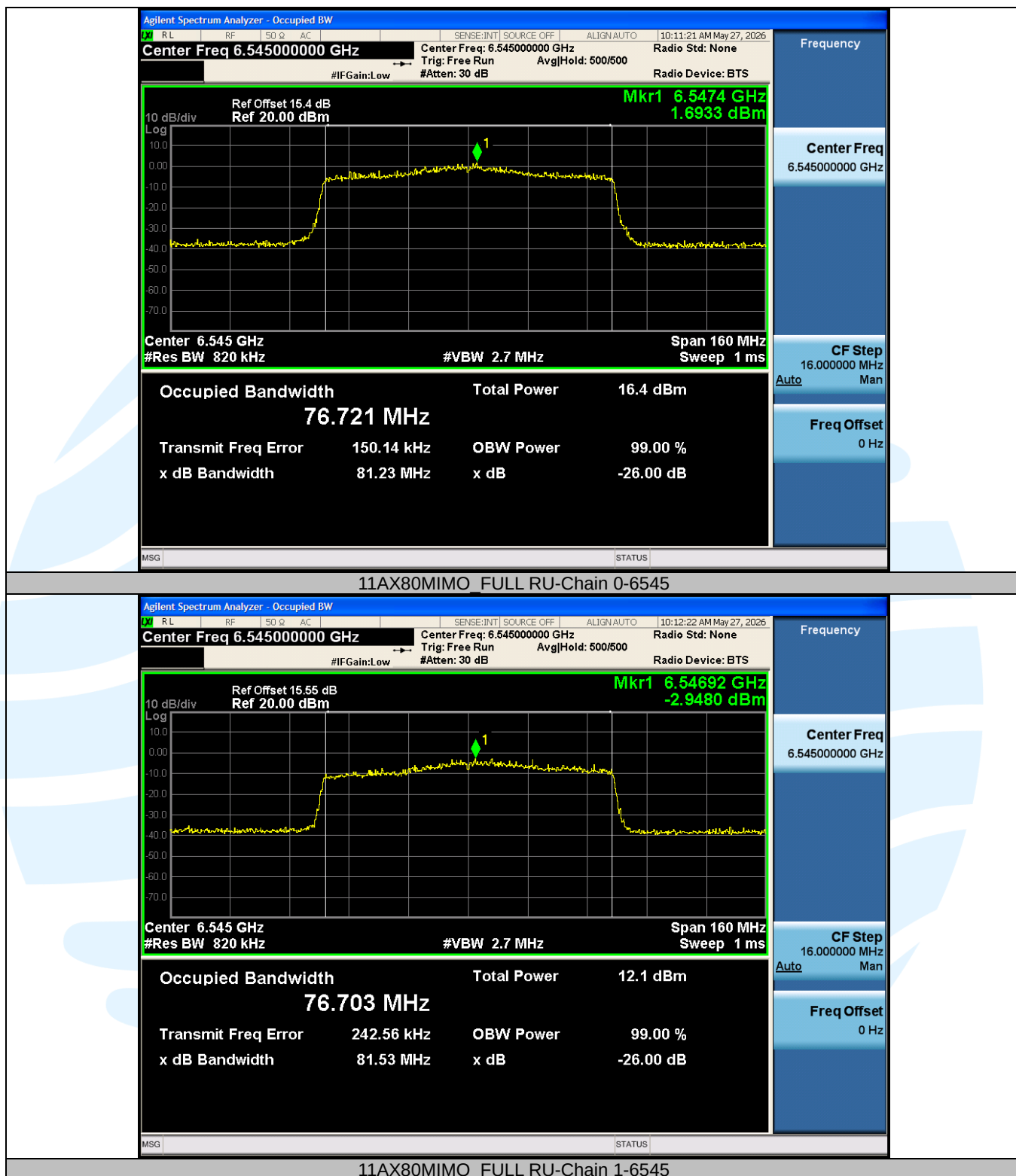
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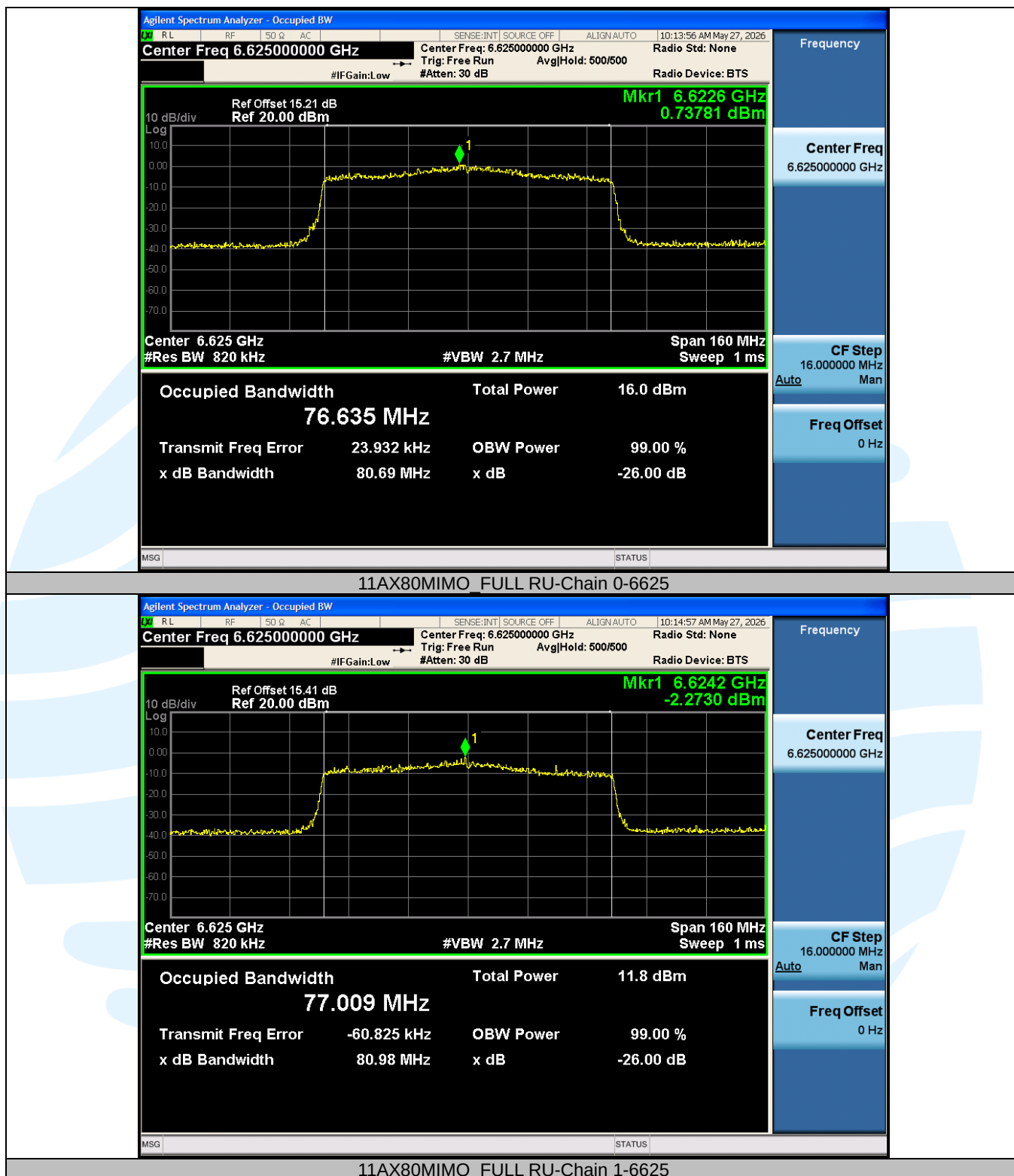
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