

FCC TEST REPORT

Product Name: Hybrid Full-Touch Handheld computer

Trade Mark: 

Model No.: X40

Add. Model No.: N/A

Report Number: 26051324500RFC-3

Test Standards: FCC 47 CFR Part 15 Subpart C

FCC ID: VTVX40

Test Result: PASS

Date of Issue: September 24, 2026

Prepared for:

TSC Auto ID Technology Co., Ltd.

9F., No. 95, Minquan Rd. Xindian Dist., New Taipei City, Taiwan

Prepared by:

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September 24, 2026

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Version

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V1.0	September 24, 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 14, 2026 to June 30, 2026		
Remark:	The above EUT's information was provided by customer. Please refer to the specifications or user's manual for more detailed description.		

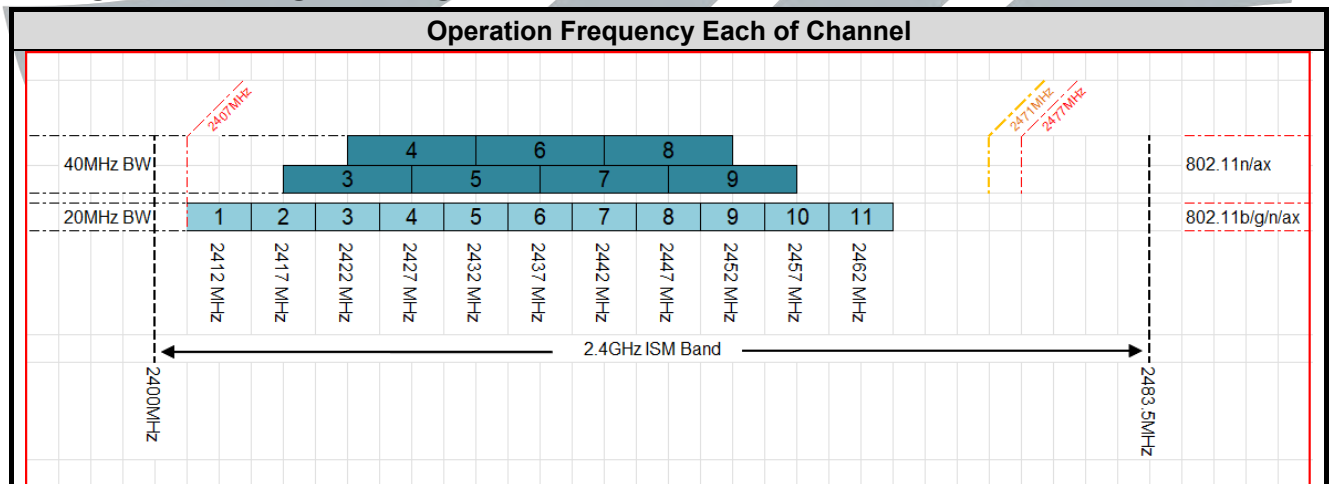
1.2.2 Description of Accessories

Refer to Report 26051324500EMC-1 for accessories.

1.3 PRODUCT SPECIFICATION SUBJECTIVE TO THIS STANDARD

Frequency Band:	2400 MHz to 2483.5 MHz	
Frequency Range:	2412 MHz to 2462 MHz	
Support Standards:	IEEE 802.11b/g/n-HT20/n-HT40/ax-HE20/ax-HE40	
Type of Modulation:	IEEE 802.11b: DSSS (CCK, DQPSK, DBPSK) IEEE 802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ax: ☒ OFDM (1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK) ☒ OFDMA (1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK)	
Data Rate:	IEEE 802.11b: Up to 11 Mbps IEEE 802.11g: Up to 54 Mbps IEEE 802.11n-HT20/HT40: Up to MCS15 IEEE 802.11ax-HE20/HE40: Up to MCS11	
Number of Channels:	IEEE 802.11b:11 IEEE 802.11g:11 IEEE 802.11n-HT20/ax-HE20:11 IEEE 802.11n-HT40/ax-HE40:7	
Channel Separation:	5 MHz	
Antenna Type: (Provided by the customer)	LDS Antenna	
Antenna Gain: (Provided by the customer)	Antenna 5 (Chain 0)	-2.13 dBi
	Antenna 6 (Chain 1)	0.12 dBi
Maximum Peak Power:	IEEE 802.11b: 19.14 dBm IEEE 802.11g: 22.05 dBm IEEE 802.11n-HT20: 21.16 dBm IEEE 802.11n-HT40: 21.40 dBm IEEE 802.11ax-HE20: 22.18 dBm IEEE 802.11ax-HE40: 21.96 dBm	
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	EX: 13030041123	UnionTrust
Mouse	DELL	MS116t1	CN-0RWN6P-LO30 0-18N-0GVP	UnionTrust

2) Support Cable

Cable No.	Description	Connector	Length	Supplied by
1	Antenna Cable	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.

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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-26GHz	± 4.6 dB
7	Radiated emission 26GHz-40GHz	± 4.6 dB
8	Conducted spurious emissions	± 2.7 dB
9	RF Power, Conducted	± 0.68 dB
10	Occupied Bandwidth	± 1.86 %
11	Radio Frequency	± 6.5 × 10 ⁻⁸
12	Transmission Time	± 0.19 %

2. TEST SUMMARY

FCC 47 CFR Part 15 Subpart C Test Cases			
Test Item	Test Requirement	Test Method	Result
Antenna Requirement	FCC 47 CFR Part 15 Subpart C Section 15.203/15.247 (b)	N/A	PASS
AC Power Line Conducted Emission	FCC 47 CFR Part 15 Subpart C Section 15.207	ANSI C63.10-2020 Clause 6.2	PASS
Conducted Peak Output Power	FCC 47 CFR Part 15 Subpart C Section 15.247 (b)(3)	ANSI C63.10-2020 Clause 11.9.1.2	PASS
6dB Bandwidth	FCC 47 CFR Part 15 Subpart C Section 15.247 (a)(2)	ANSI C63.10-2020 Clause 11.8.1	PASS
Occupied Bandwidth	N/A	ANSI C63.10-2020 Clause 6.9.3	None; for reporting purposes only.
Power Spectral Density	FCC 47 CFR Part 15 Subpart C Section 15.247 (e)	ANSI C63.10-2020 Clause 11.10.2	PASS
Conducted Out of Band Emission	FCC 47 CFR Part 15 Subpart C Section 15.247(d)	ANSI C63.10-2020 Clause 11.11	PASS
Radiated Spurious Emissions	FCC 47 CFR Part 15 Subpart C Section 15.205/15.209	ANSI C63.10-2020 Clause 11.11 & Clause 11.12	PASS
Band Edge Measurements (Radiated)	FCC 47 CFR Part 15 Subpart C Section 15.205/15.209	ANSI C63.10-2020 Clause 11.12	PASS
Duty Cycle	N/A	ANSI C63.10-2020 Clause 11.6	None; for reporting purposes only.
Disclaimer and Explanations: The declared of product specification and data (e.g., antenna gain, RF specification, etc) for EUT presented in the report are provided by the customer, and the customer takes all the responsibilities for the accuracy of product specification.			

3. EQUIPMENT LIST

Radiated Emission Test Equipment List						
Used	Equipment	Manufacturer	Model No.	Serial Number	Cal. date	Cal. Due date
☒	3 m SAC	ETS-Lindgren	3 m	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
☒	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
☒	Pre-amplifier	HP	8447F	2805A02960	24-Oct-2025	23-Oct-2026
☒	Band Reject Filter (2400MHz~2500MHz)	Micro-tronics	BRM50702	G590	24-Oct-2025	23-Oct-2026
☒	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
☒	Shielding room	ETS-Lindgren	333	Euroshiedpn-TJ2343-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
Conducted Peak Output Power	S202605138612-ZJA15/26	Alan Jia
6dB Bandwidth & Occupied Bandwidth		
Power Spectral Density		
Conducted Out of Band Emission		
Radiated Spurious Emissions	S202605138612-ZJA03/26	Leo Li
Band Edge Measurements (Radiated)		

4.2 TEST CHANNELS

Mode	Tx/Rx Frequency	Test RF Channel Lists		
		Lowest(L)	Middle(M)	Highest(H)
IEEE 802.11b	2412 MHz to 2462 MHz	Channel 1	Channel 7	Channel 11
		2412 MHz	2437 MHz	2462 MHz
IEEE 802.11g	2412 MHz to 2462 MHz	Channel 1	Channel 7	Channel 11
		2412 MHz	2437 MHz	2462 MHz
IEEE 802.11n-HT20	2412 MHz to 2462 MHz	Channel 1	Channel 7	Channel 11
		2412 MHz	2437 MHz	2462 MHz
IEEE 802.11ax-HE20	2412 MHz to 2462 MHz	Channel 1	Channel 7	Channel 11
		2412 MHz	2437 MHz	2462 MHz
Mode	Tx/Rx Frequency	Test RF Channel Lists		
		Lowest(L)	Middle(M)	Highest(H)
IEEE 802.11n-HT40	2422 MHz to 2452 MHz	Channel 3	Channel 7	Channel 9
		2422 MHz	2437 MHz	2452 MHz
IEEE 802.11ax-HE40	2422 MHz to 2452 MHz	Channel 3	Channel 7	Channel 9
		2422 MHz	2437 MHz	2452 MHz

4.3 EUT TEST STATUS

Mode	Tx/Rx Function	Description
IEEE 802.11b/g	1Tx/1Rx	1. Keep the EUT in continuously transmitting or receiving with modulation test single.
IEEE 802.11n-HT20/40	2Tx/2Rx	
IEEE 802.11ax-HE20/40		

Power Setting (Provided by the customer)				
Test Mode	RU & Index	Freq. [MHz]	Set Power	
			Ant 5 (Chain 0)	Ant 6 (Chain 1)
11B	---	2412	17	18.5
11B	---	2437	18	19.5
11B	---	2462	17	18.5
11G	---	2412	15	17
11G	---	2437	15	17
11G	---	2462	15	16.5
11N20MIMO	---	2412	13	13
11N20MIMO	---	2437	13.5	13.5
11N20MIMO	---	2462	13	13
11N40MIMO	---	2422	13	13
11N40MIMO	---	2437	12.5	12.5
11N40MIMO	---	2452	13	13
11AX20MIMO	FULL/SU	2412	12.5	12.5
11AX20MIMO	FULL/SU	2437	13	13
11AX20MIMO	FULL/SU	2462	12.5	12.5
11AX20MIMO	106RU53	2412	9.5	9.5
11AX20MIMO	106RU54	2437	10	10
11AX20MIMO	106RU54	2462	9.5	9.5
11AX20MIMO	52RU37	2412	6.5	6.5
11AX20MIMO	52RU39	2437	7	7
11AX20MIMO	52RU40	2462	6.5	6.5
11AX20MIMO	26RU0	2412	3.5	3.5
11AX20MIMO	26RU4	2437	4	4
11AX20MIMO	26RU8	2462	3.5	3.5
11AX40MIMO	FULL/SU	2422	13	13
11AX40MIMO	FULL/SU	2437	13	13
11AX40MIMO	FULL/SU	2452	13	13

Test Software (Provided by the customer)
QRCT4

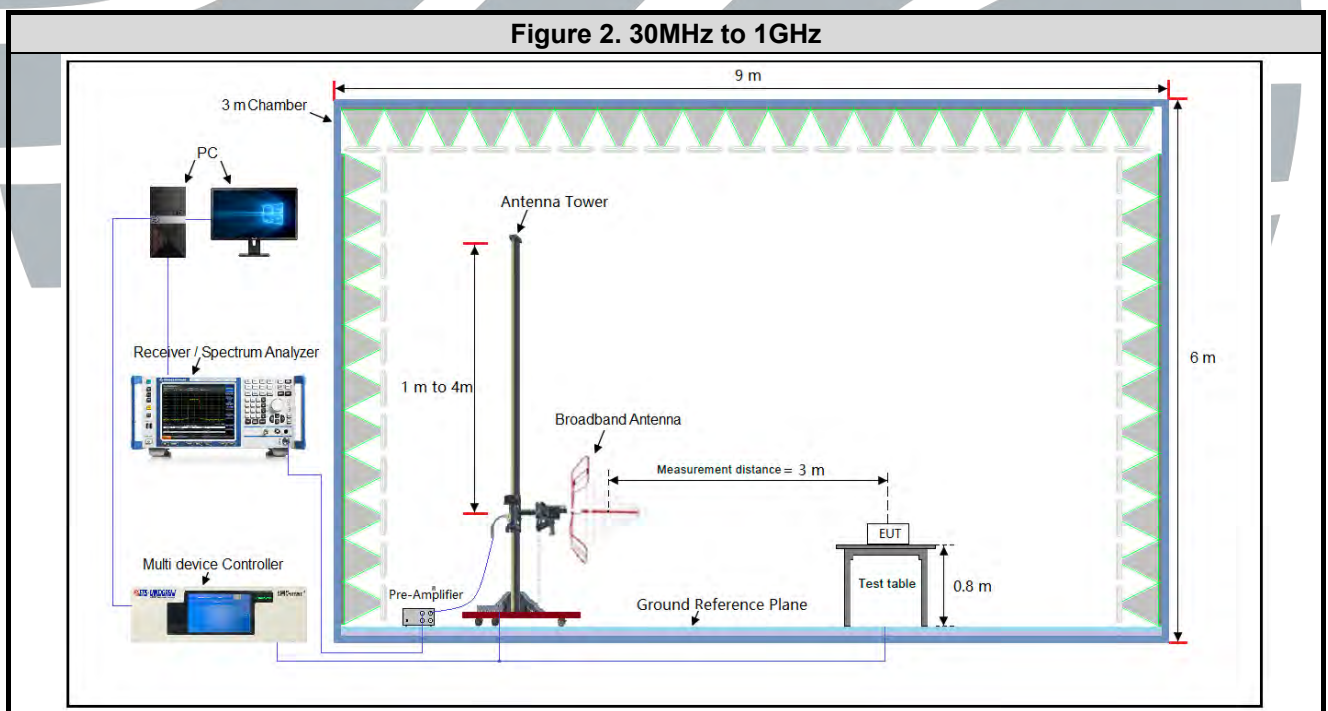
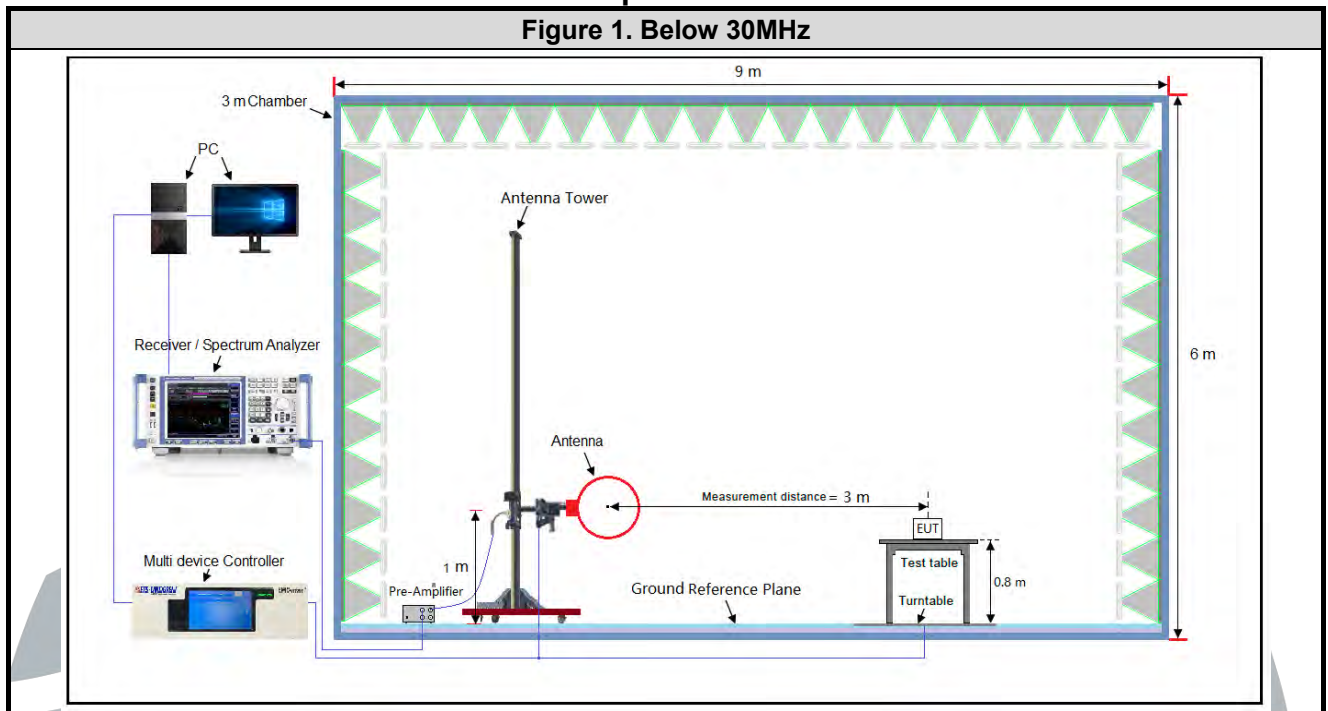
4.4 PRE-SCAN

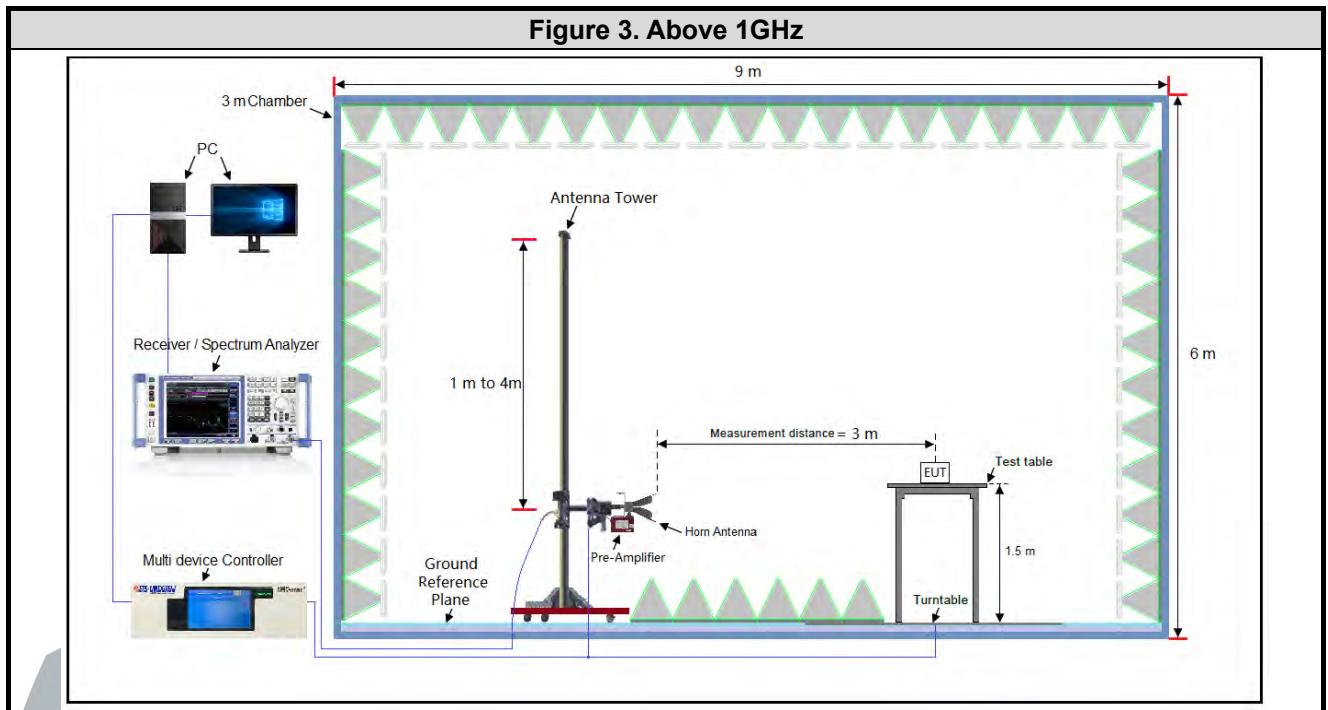
Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations and data rate. Following data rate was (were) selected for the final test as listed below

Mode	Worst-case data rates
IEEE 802.11b	1 Mbps
IEEE 802.11g	6 Mbps
IEEE 802.11n-HT20	MCS0
IEEE 802.11n-HT40	MCS0
IEEE 802.11ax-HE20	MCS0
IEEE 802.11ax-HE40	MCS0

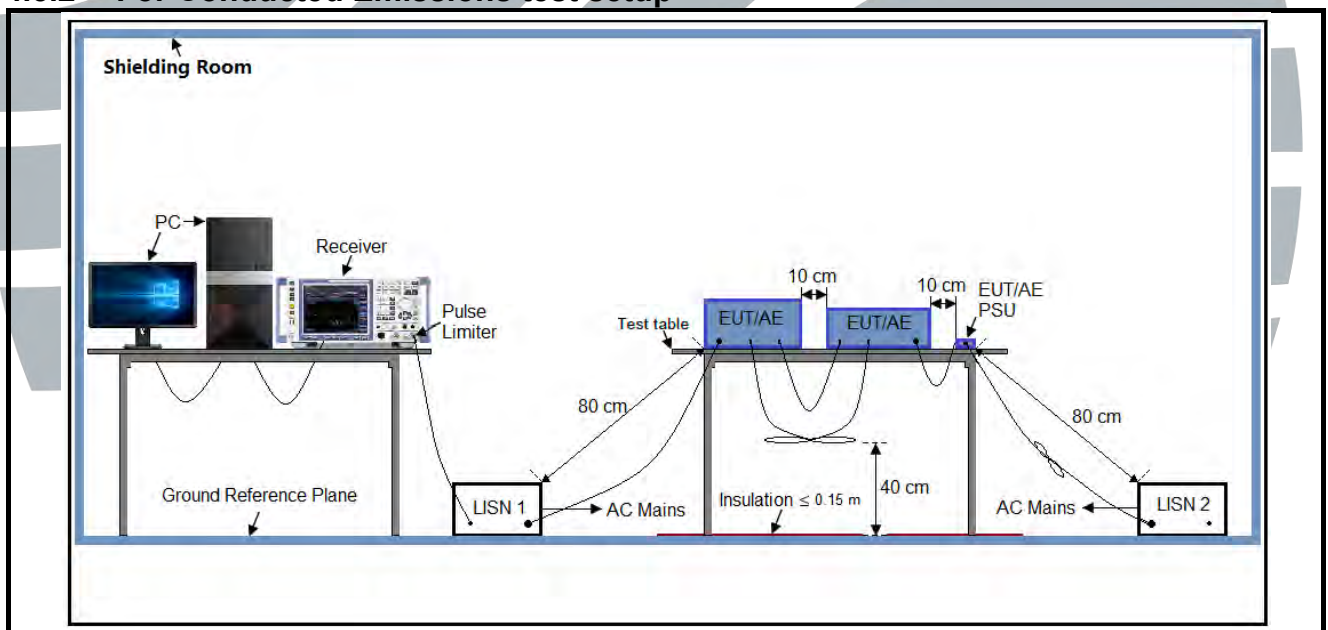
4.5 TEST SETUP

4.5.1 For Radiated Emissions test setup

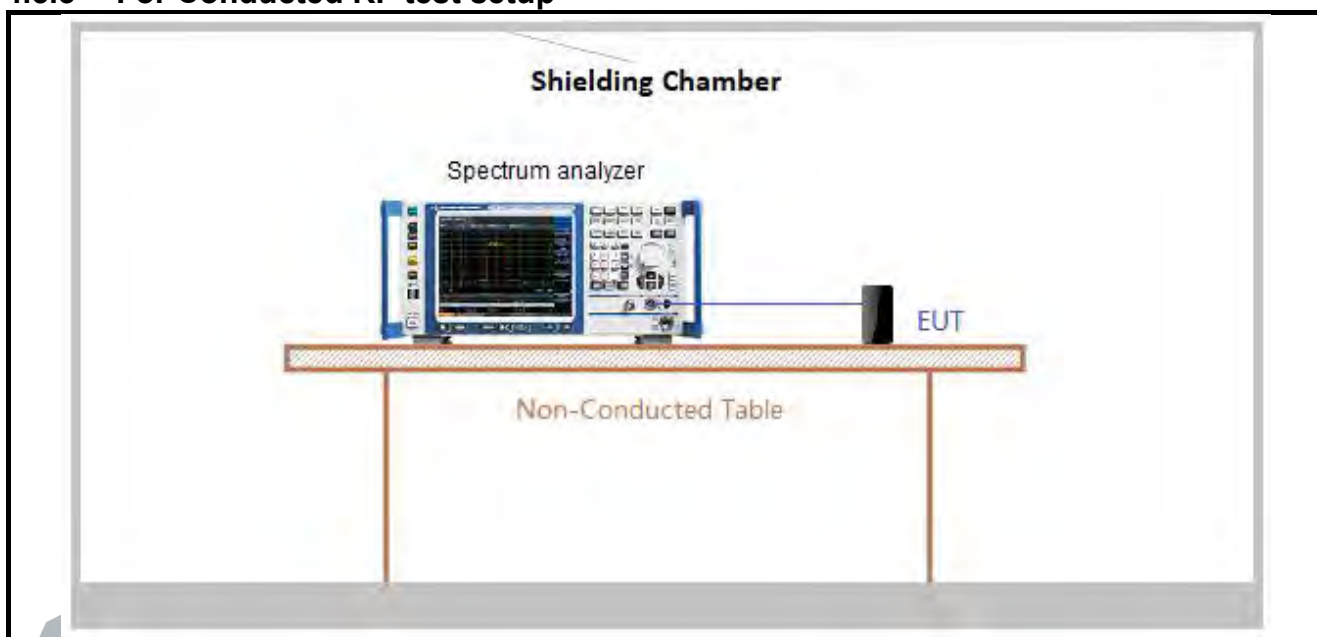




4.5.2 For Conducted Emissions test setup



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 a 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 power on Full RU and SU higher data rate, investigation was performed on both band edge and radiated spurious emissions to determine the worst case, and SU mode was determined to be the worst case.

4.7 DUTY CYCLE

Test Procedure: ANSI C63.10-2020 Clause 11.6.

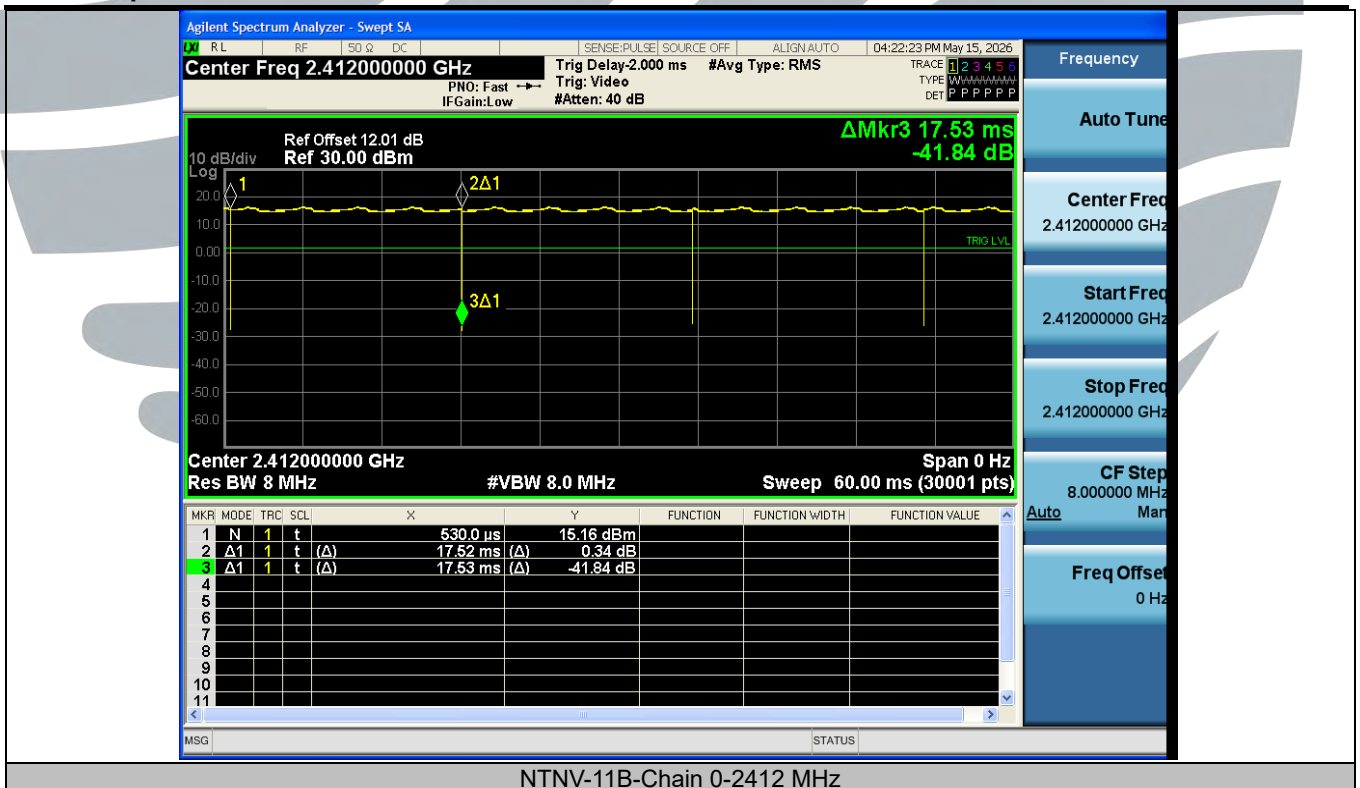
Test Results

Test Mode	Antenna	Ru & Index	Frequency [MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11B	Chain 0	--	2412	17.52	17.53	99.94	0.00
11B	Chain 1	--	2412	17.52	17.53	99.94	0.00
11G	Chain 0	--	2412	2.09	2.11	99.05	0.04
11G	Chain 1	--	2412	2.10	2.12	99.06	0.04
11N20MIMO	Chain 0	--	2412	5.43	5.44	99.82	0.01
11N20MIMO	Chain 1	--	2412	5.43	5.44	99.82	0.01
11N40MIMO	Chain 0	--	2422	5.43	5.45	99.63	0.02
11N40MIMO	Chain 1	--	2422	5.43	5.44	99.82	0.01
11AX20MIMO	Chain 0	Full	2412	5.45	5.47	99.63	0.02
11AX20MIMO	Chain 1	Full	2412	5.44	5.46	99.63	0.02
11AX20MIMO	Chain 0	26RU0	2412	5.09	5.11	99.61	0.02
11AX20MIMO	Chain 1	26RU0	2412	5.08	5.10	99.61	0.02
11AX20MIMO	Chain 0	52RU37	2412	5.07	5.09	99.61	0.02
11AX20MIMO	Chain 1	52RU37	2412	5.07	5.10	99.41	0.03
11AX20MIMO	Chain 0	106RU53	2412	2.65	2.67	99.25	0.03
11AX20MIMO	Chain 1	106RU53	2412	2.65	2.67	99.25	0.03
11AX40MIMO	Chain 0	Full	2422	5.45	5.46	99.82	0.01
11AX40MIMO	Chain 1	Full	2422	5.45	5.47	99.63	0.02

Remark:

- 1) Duty cycle= On Time/ Period;
- 2) Duty Cycle factor = $10 * \log(1/ \text{Duty cycle})$;

The test plots as follows



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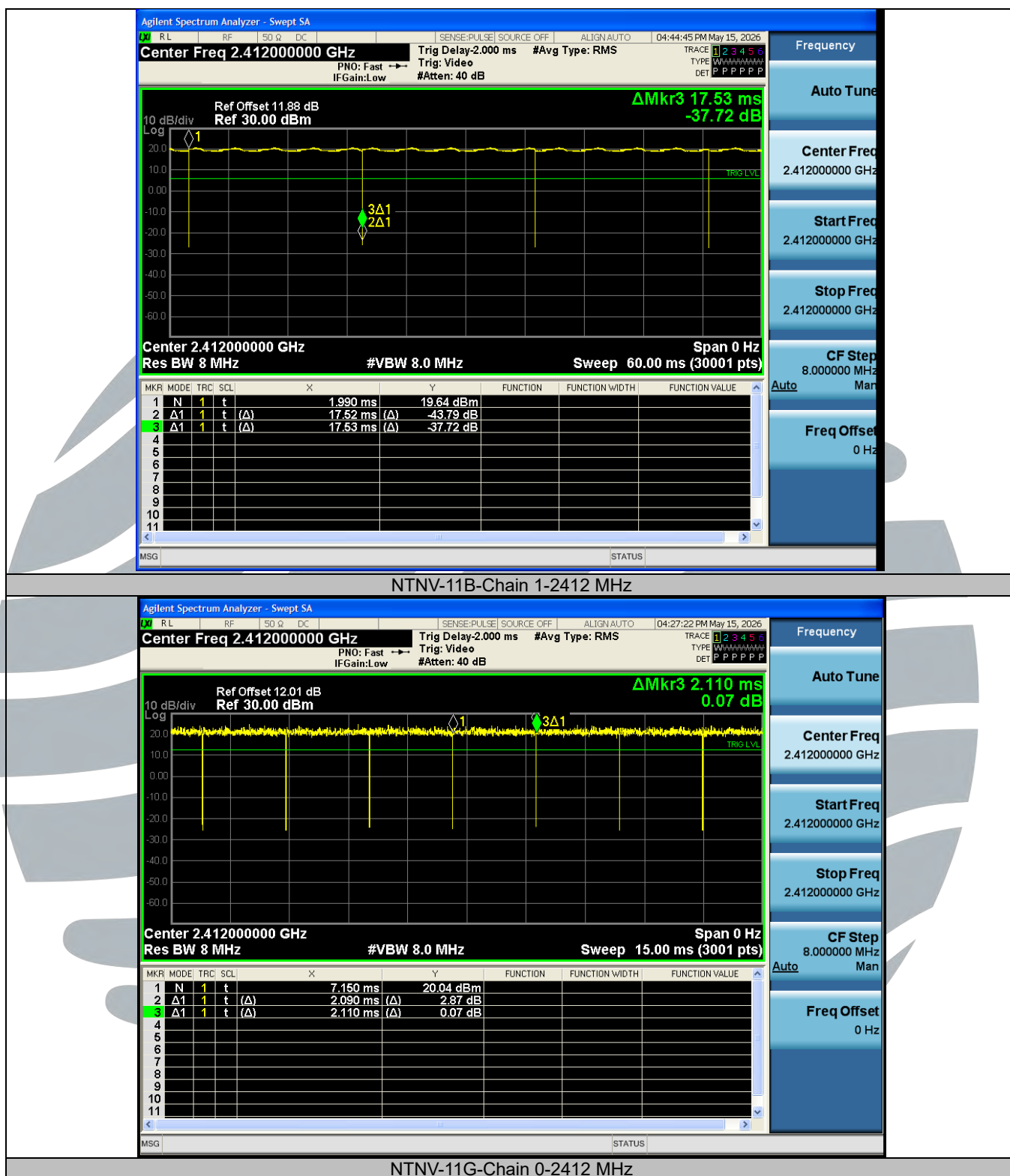
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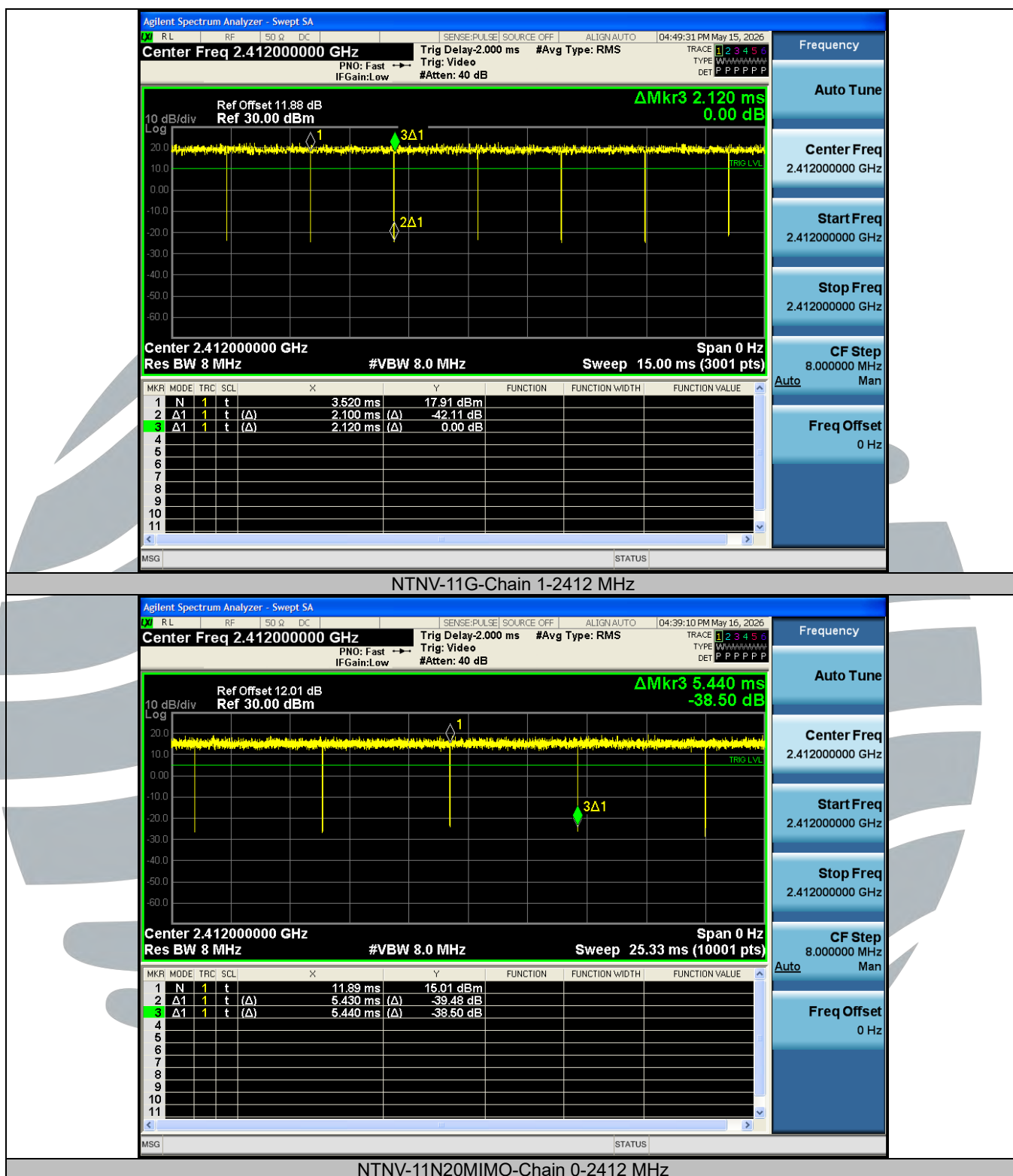
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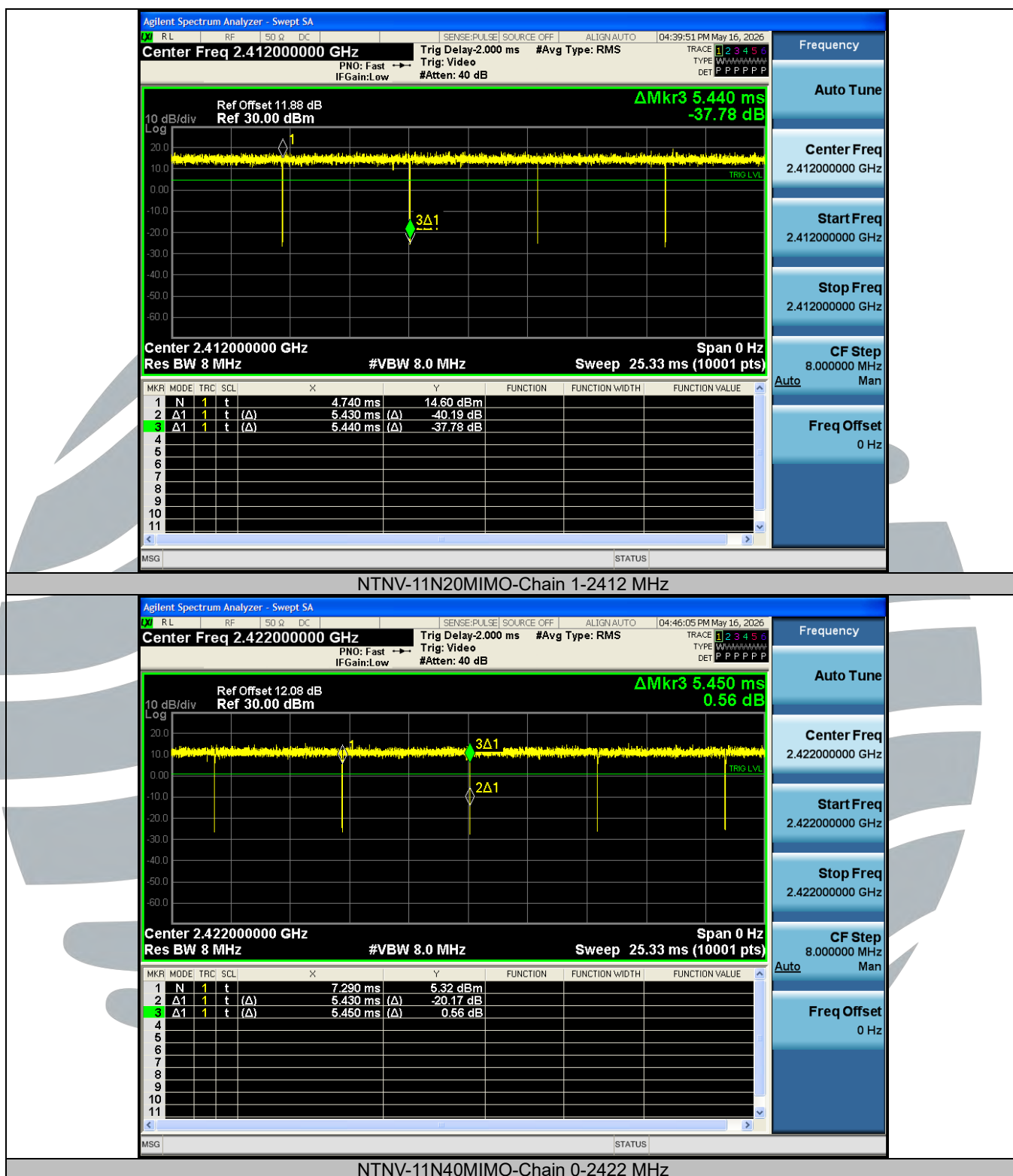
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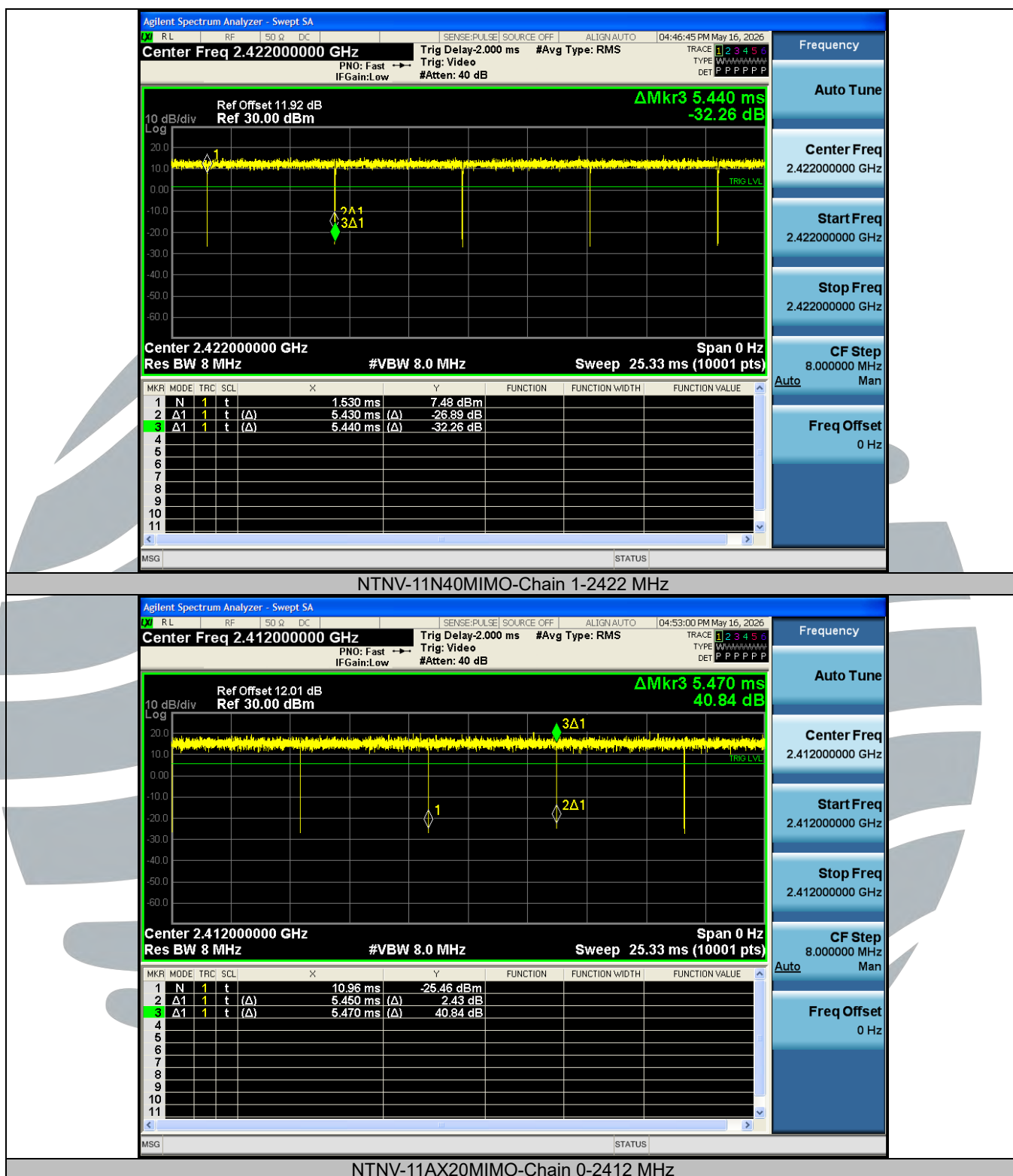
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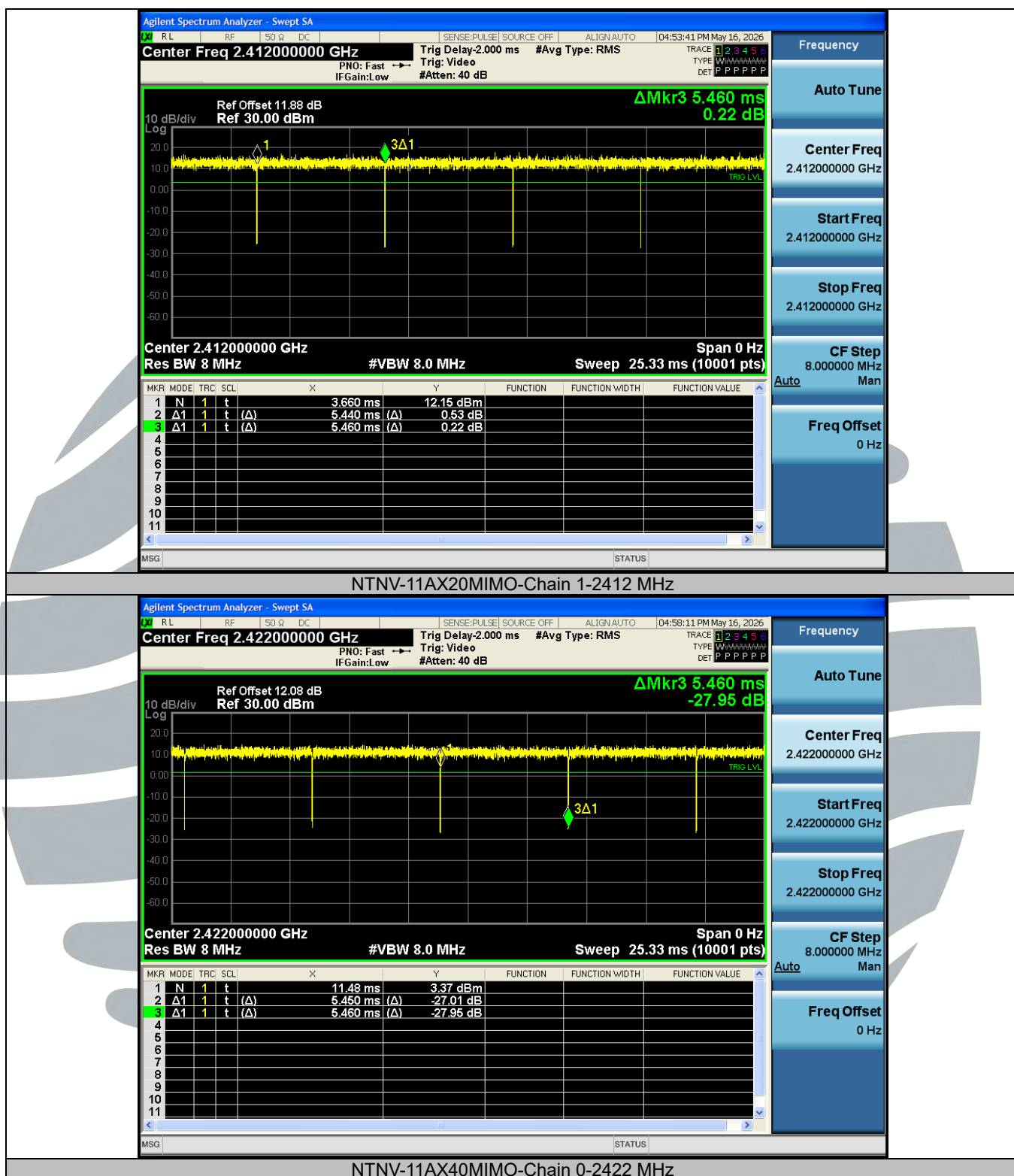
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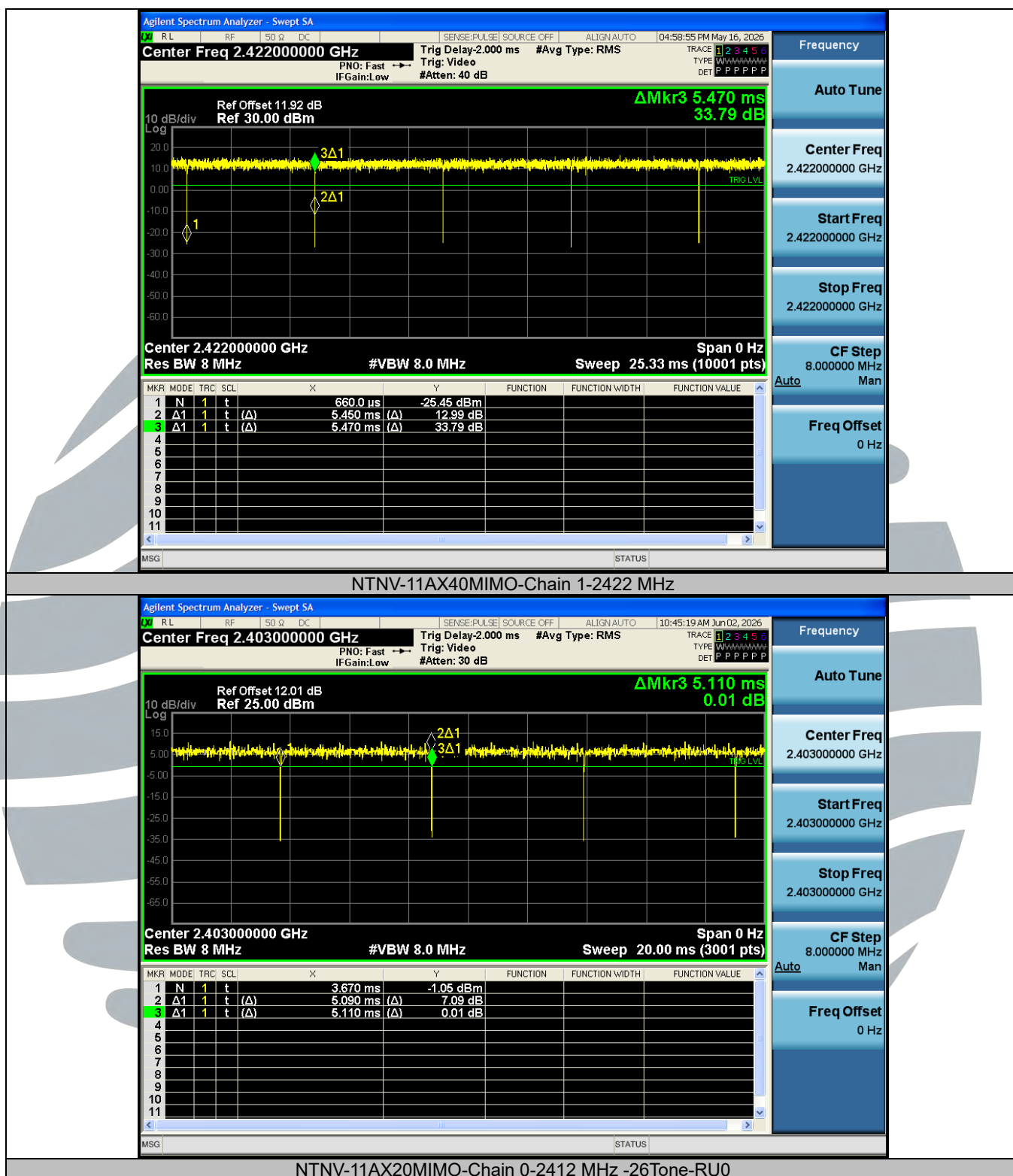
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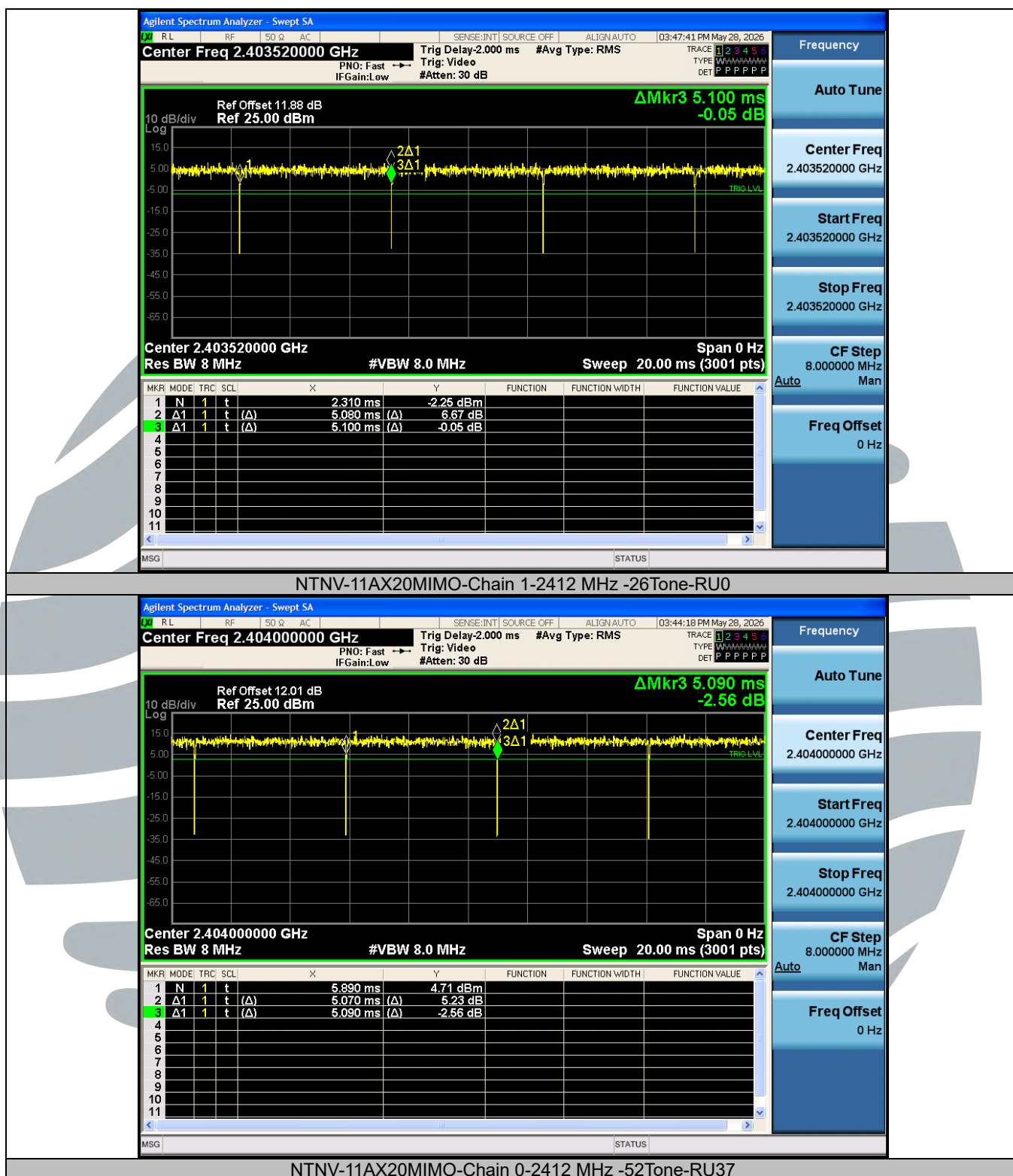
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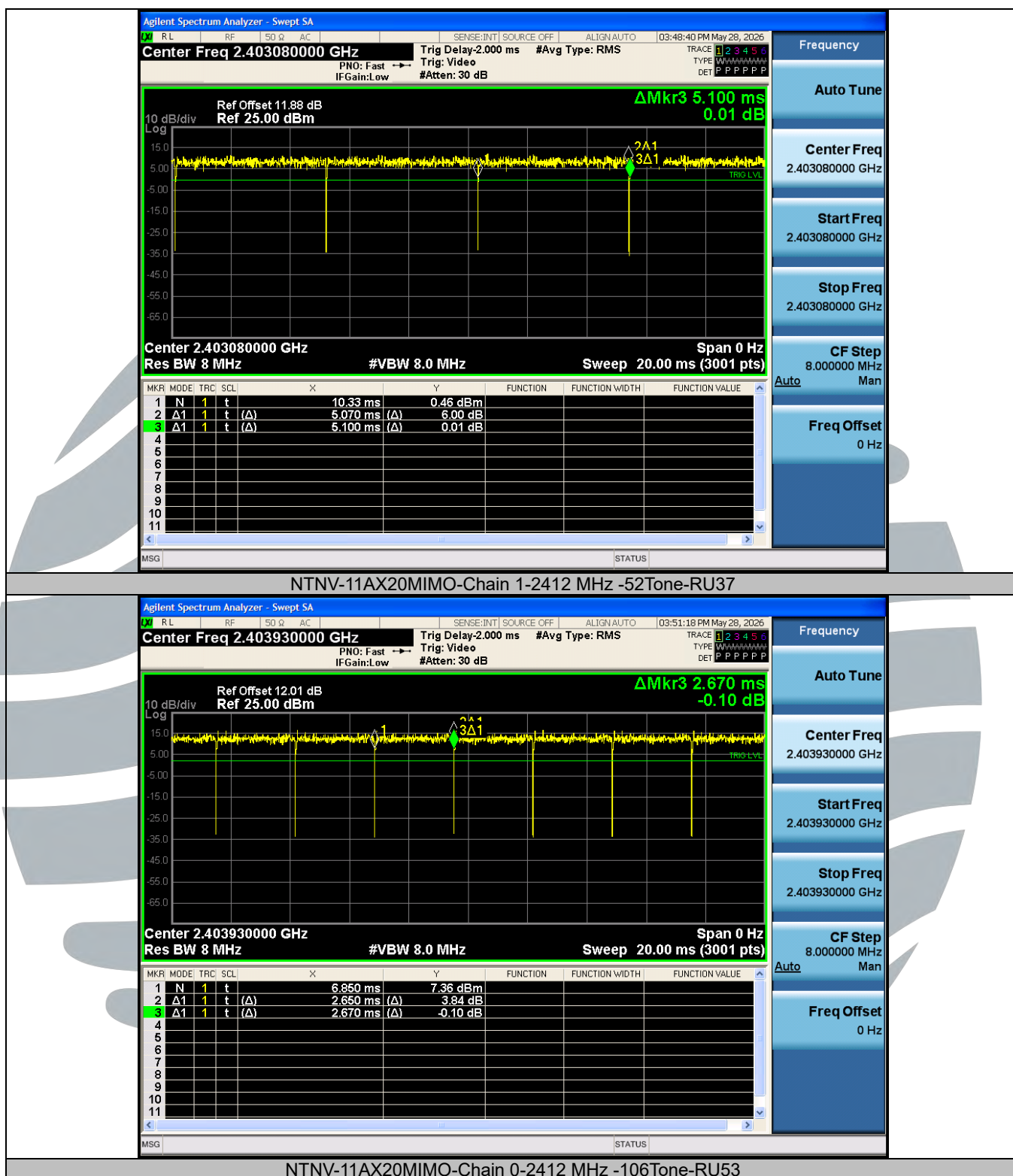
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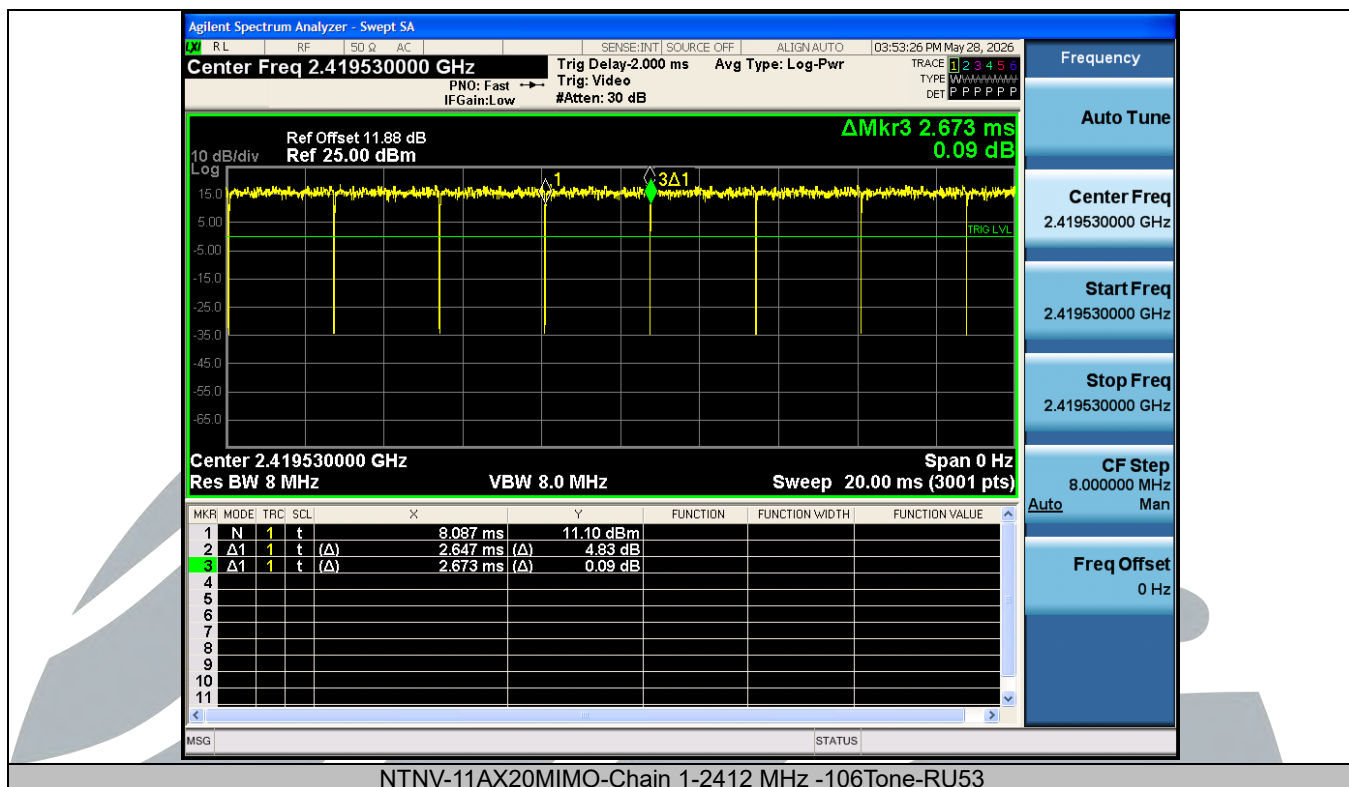
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5. RADIO TECHNICAL REQUIREMENTS SPECIFICATION

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	KDB 558074 D01 15.247 Meas Guidance v05r02	Guidance for compliance measurements on Digital Transmission Systems, Frequency Hopping Spread Spectrum system, and Hybrid system devices operating under Section 15.247 of the FCC rules

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. 15.247(b) (4) requirement: The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi. 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 2.08dBi (See section 5.3).

5.3 CONDUCTED PEAK OUTPUT POWER

Test Requirement: FCC 47 CFR Part 15 Subpart C Section 15.247 (b)(3)

Test Method: ANSI C63.10-2020 Clause 11.9.1.2

Limit: For systems using digital modulation in the 2400-2483.5 MHz bands: 1 Watt.

Test Procedure:

1. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter.
2. Measure out each test modes' peak or average output power, record the power level.

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:

Directional gain and the maximum output power limit.

Frequency (MHz)	Antenna Gain (dBi)		Correlated Directional gain (dBi)	Power Limit
	Ant. 5	Ant. 6		
2412-2462	-2.13	0.12	2.08	30
Unequal antenna gains, with equal transmit powers. Directional gain is to be computed as follows: If transmit signals are correlated, then Directional gain = $10 \cdot \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / NANT]$ dBi [Note the "20"s in the denominator of each exponent and the square of the sum of terms; the object is to combine the signal levels coherently.]				

Test Mode	RU&Index	Freq. [MHz]	Conducted Peak power [dBm]			Limit [dBm]	Verdict
			Chain 0	Chain 1	Total		
11B	---	2412	18.97	18.96	--	≤30.00	PASS
11B	---	2437	18.50	18.55	--	≤30.00	PASS
11B	---	2462	19.14	19.08	--	≤30.00	PASS
11G	---	2412	21.78	22.05	--	≤30.00	PASS
11G	---	2437	20.53	20.79	--	≤30.00	PASS
11G	---	2462	22.05	21.46	--	≤30.00	PASS
11N20MIMO	---	2412	19.38	16.44	21.16	≤30.00	PASS
11N20MIMO	---	2437	18.82	16.87	20.96	≤30.00	PASS
11N20MIMO	---	2462	19.45	16.23	21.14	≤30.00	PASS
11N40MIMO	---	2422	18.76	17.31	21.11	≤30.00	PASS
11N40MIMO	---	2437	18.84	17.16	21.09	≤30.00	PASS
11N40MIMO	---	2452	19.04	17.62	21.40	≤30.00	PASS
11AX20MIMO	SU	2412	19.92	18.27	22.18	≤30.00	PASS
11AX20MIMO	SU	2437	19.13	16.54	21.04	≤30.00	PASS
11AX20MIMO	SU	2462	19.60	17.40	21.65	≤30.00	PASS
11AX20MIMO	106RU53	2412	18.59	18.46	21.54	≤30.00	PASS
11AX20MIMO	106RU54	2437	18.48	17.63	21.09	≤30.00	PASS
11AX20MIMO	106RU54	2462	18.50	16.52	20.63	≤30.00	PASS
11AX20MIMO	52RU37	2412	15.72	15.94	18.84	≤30.00	PASS
11AX20MIMO	52RU39	2437	15.55	14.51	18.07	≤30.00	PASS
11AX20MIMO	52RU40	2462	15.41	14.16	17.84	≤30.00	PASS
11AX20MIMO	26RU0	2412	12.49	12.82	15.67	≤30.00	PASS
11AX20MIMO	26RU4	2437	12.05	11.70	14.89	≤30.00	PASS
11AX20MIMO	26RU8	2462	12.27	11.18	14.77	≤30.00	PASS
11AX40MIMO	SU	2422	19.06	17.10	21.20	≤30.00	PASS
11AX40MIMO	SU	2437	19.39	18.45	21.96	≤30.00	PASS
11AX40MIMO	SU	2452	19.32	17.80	21.64	≤30.00	PASS

Note: The Directional gain of 2.08 dBi less than 6dBi maximum permission antenna gain value based on 1 watt (30dBm) peak output power limit.

Test Mode	RU&Index	Freq. [MHz]	Meas Average power [dBm]		Corr'd Average power Result [dBm]		
			Chain 0	Chain 1	Chain 0	Chain 1	Total
11B	---	2412	15.23	15.35	15.23	15.35	--
11B	---	2437	15.15	15.34	15.15	15.34	--
11B	---	2462	15.55	15.66	15.55	15.66	--
11G	---	2412	14.64	15.19	14.68	15.23	--
11G	---	2437	13.88	14.50	13.92	14.54	--
11G	---	2462	15.07	15.13	15.11	15.17	--
11N20MIMO	---	2412	12.21	10.38	12.22	10.39	14.41
11N20MIMO	---	2437	11.77	10.37	11.78	10.38	14.15
11N20MIMO	---	2462	12.71	10.34	12.72	10.35	14.71
11N40MIMO	---	2422	11.52	11.30	11.54	11.31	14.44
11N40MIMO	---	2437	11.70	11.21	11.72	11.22	14.49
11N40MIMO	---	2452	11.86	11.20	11.88	11.21	14.57
11AX20MIMO	FULL	2412	11.99	10.27	12.01	10.29	14.24
11AX20MIMO	FULL	2437	11.64	10.25	11.66	10.27	14.03
11AX20MIMO	FULL	2462	11.84	10.86	11.86	10.88	14.41
11AX20MIMO	106RU53	2412	7.88	5.06	7.90	5.09	9.73
11AX20MIMO	106RU54	2437	8.43	6.86	8.45	6.89	10.75
11AX20MIMO	106RU54	2462	7.91	5.30	7.93	5.33	9.83
11AX20MIMO	52RU37	2412	4.30	1.40	4.32	1.43	6.12
11AX20MIMO	52RU39	2437	4.86	2.49	4.88	2.52	6.87
11AX20MIMO	52RU40	2462	4.54	0.99	4.56	1.02	6.15
11AX20MIMO	26RU0	2412	0.77	-2.16	0.80	-2.13	2.59
11AX20MIMO	26RU4	2437	1.55	-0.14	1.58	-0.11	3.83
11AX20MIMO	26RU8	2462	-0.54	-2.61	-0.51	-2.58	1.59
11AX40MIMO	FULL	2422	11.29	11.01	11.30	11.03	14.18
11AX40MIMO	FULL	2437	11.85	11.11	11.86	11.13	14.52
11AX40MIMO	FULL	2452	11.57	10.82	11.58	10.84	14.24

5.46 DB BANDWIDTH

Test Requirement: FCC 47 CFR Part 15 Subpart C Section 15.247 (a)(2)

Test Method: ANSI C63.10-2020 Clause 11.8.1

Limit: For direct sequence systems, the minimum 6dB bandwidth shall be at least 500kHz

Test Procedure: Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.

Use the following spectrum analyzer settings:

a) Set RBW = shall be in the range of 1% to 5% of the OBW but not less than 100 kHz

b) Set the video bandwidth (VBW) $\geq 3 \times$ RBW.

c) Detector = Peak.

d) Trace mode = max hold.

e) Sweep = auto couple.

f) Allow the trace to stabilize.

Measure the maximum width of the emission by placing two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the “-6 dB down amplitude”. If a marker is below this “-6 dB down amplitude” value, then it shall be as close as possible to this value.

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

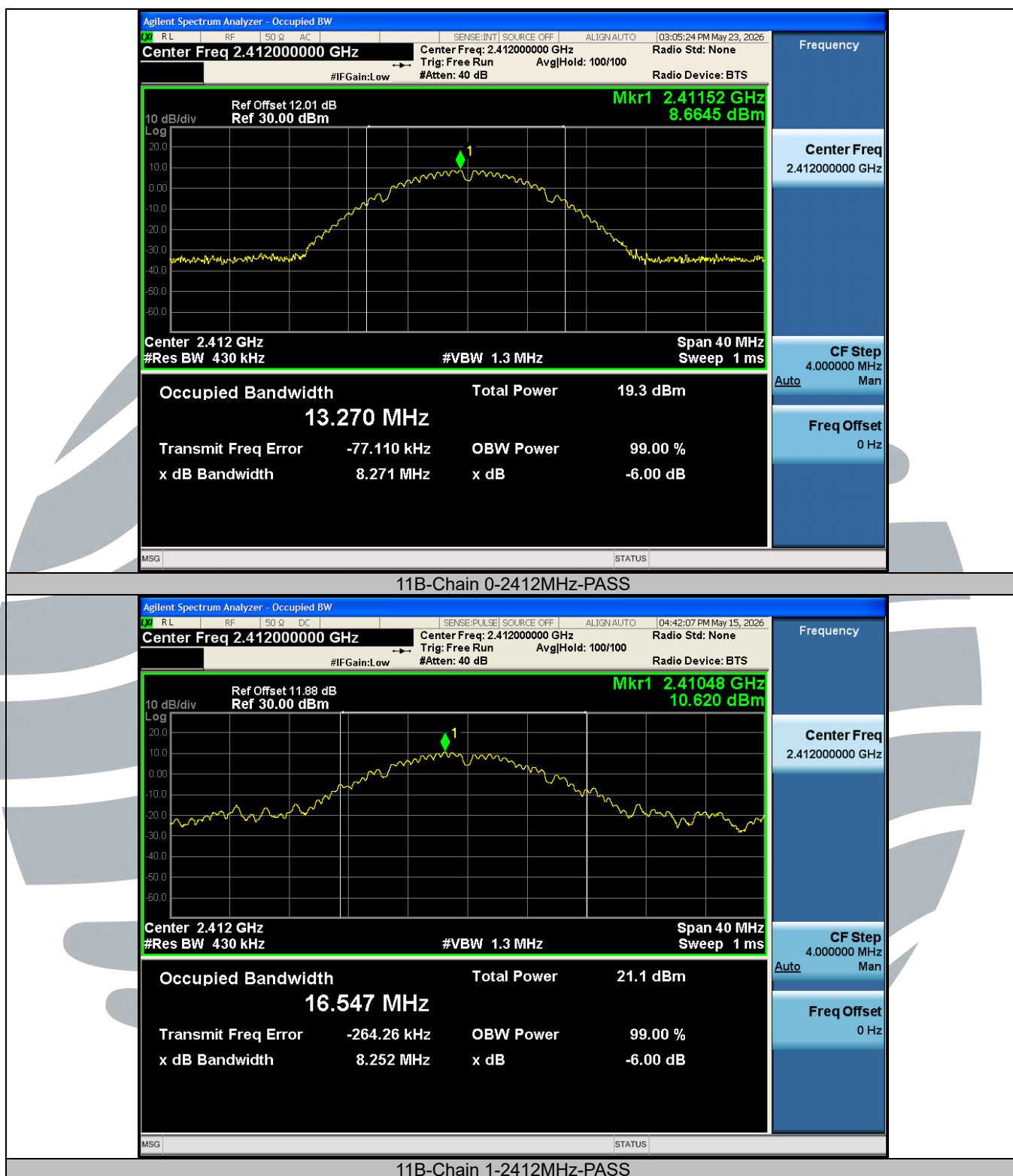
Test Setup: Refer to section 4.5.3 for details.

Instruments Used: Refer to section 3 for details

Test Mode: Tx mode

Test Results:

Test Mode	RU&Index	Frequency [MHz]	DTS BW [MHz]		Limit [MHz]	Verdict
			Chain 0	Chain 1		
11B	--	2412	8.271	8.252	0.5	PASS
11B	--	2437	8.253	8.246	0.5	PASS
11B	--	2462	8.294	8.715	0.5	PASS
11G	--	2412	15.84	15.45	0.5	PASS
11G	--	2437	15.64	13.55	0.5	PASS
11G	--	2462	16.06	14.88	0.5	PASS
11N20MIMO	--	2412	16.73	17.02	0.5	PASS
11N20MIMO	--	2437	16.65	14.2	0.5	PASS
11N20MIMO	--	2462	17.2	17.39	0.5	PASS
11N40MIMO	--	2422	36.02	36.13	0.5	PASS
11N40MIMO	--	2437	33.89	34.62	0.5	PASS
11N40MIMO	--	2452	35.58	35.42	0.5	PASS
11AX20MIMO	SU	2412	17.9	18.8	0.5	PASS
11AX20MIMO	SU	2437	17.77	18.03	0.5	PASS
11AX20MIMO	SU	2462	17.08	18.79	0.5	PASS
11AX20MIMO	26ToneRU0	2412	2.258	17.12	0.5	PASS
11AX20MIMO	26ToneRU4	2437	2.755	2.707	0.5	PASS
11AX20MIMO	26ToneRU8	2462	2.205	17.14	0.5	PASS
11AX20MIMO	52ToneRU37	2412	17.14	17.21	0.5	PASS
11AX20MIMO	52ToneRU39	2437	11.69	12.87	0.5	PASS
11AX20MIMO	52ToneRU40	2462	4.2	17.04	0.5	PASS
11AX20MIMO	106ToneRU53	2412	18.3	17.94	0.5	PASS
11AX20MIMO	106ToneRU54	2437	18.52	18	0.5	PASS
11AX20MIMO	106ToneRU54	2462	17.19	17.31	0.5	PASS
11AX40MIMO	SU	2422	36.8	37.93	0.5	PASS
11AX40MIMO	SU	2437	33.14	35.97	0.5	PASS
11AX40MIMO	SU	2452	36.3	27.84	0.5	PASS



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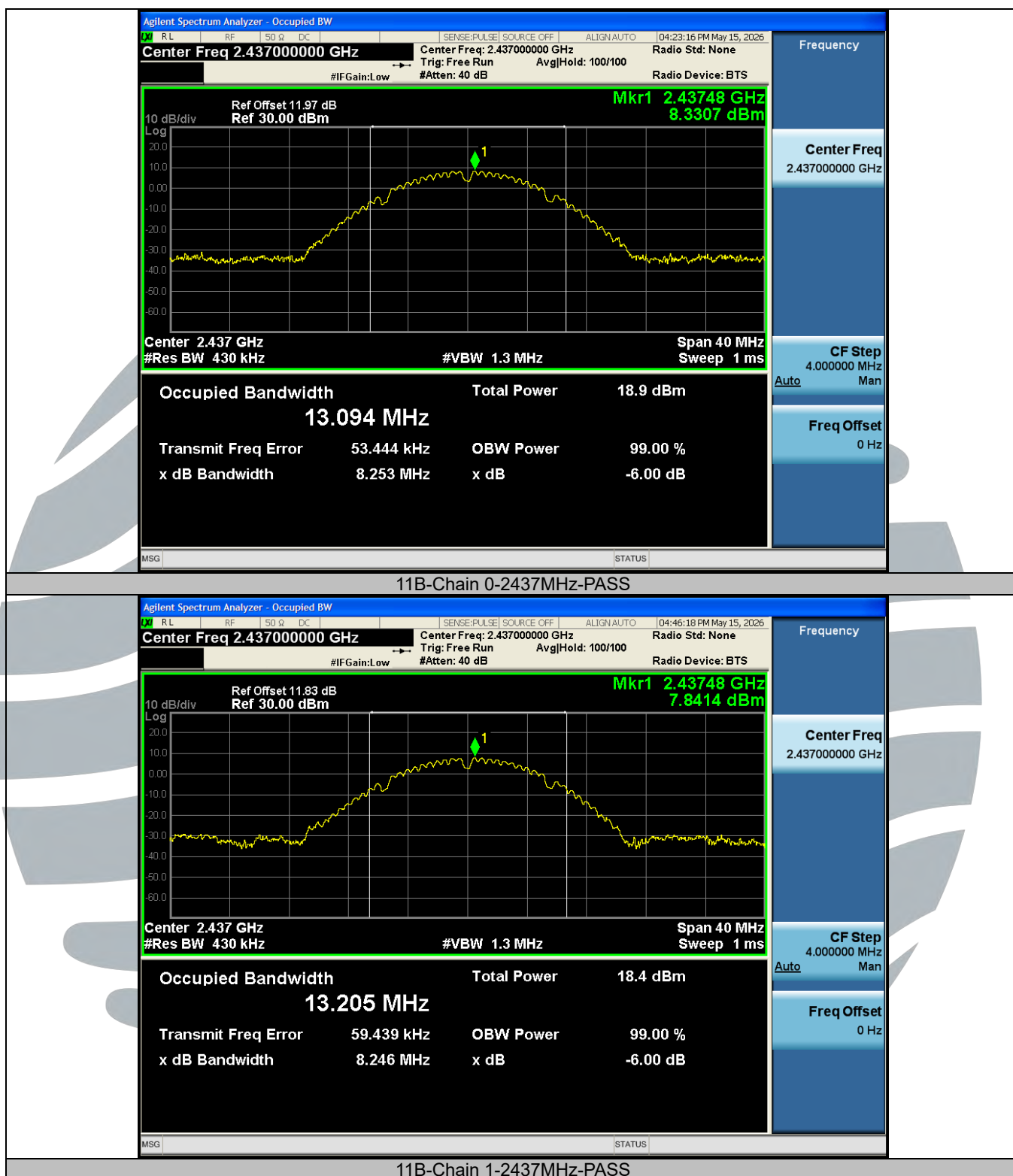
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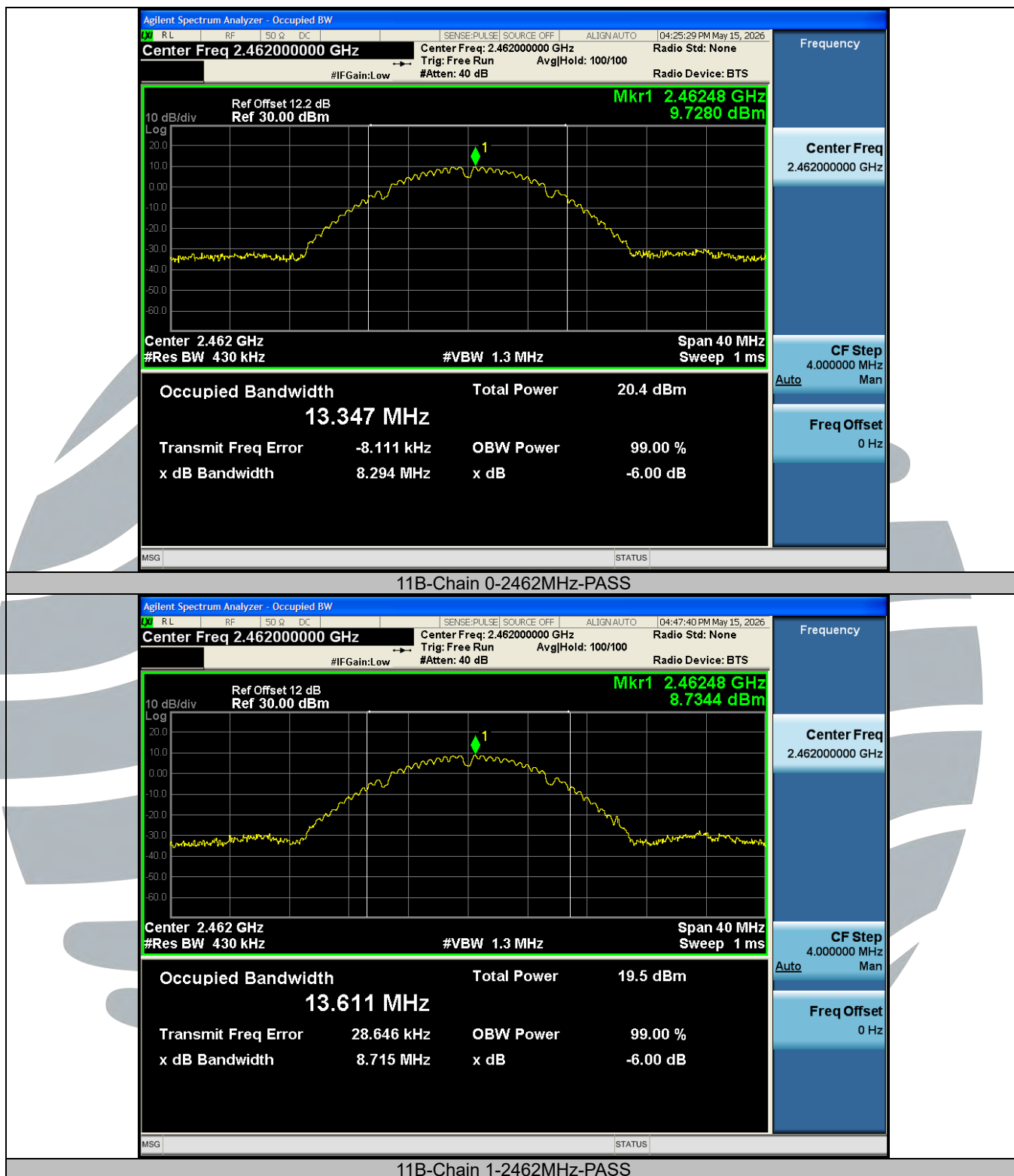
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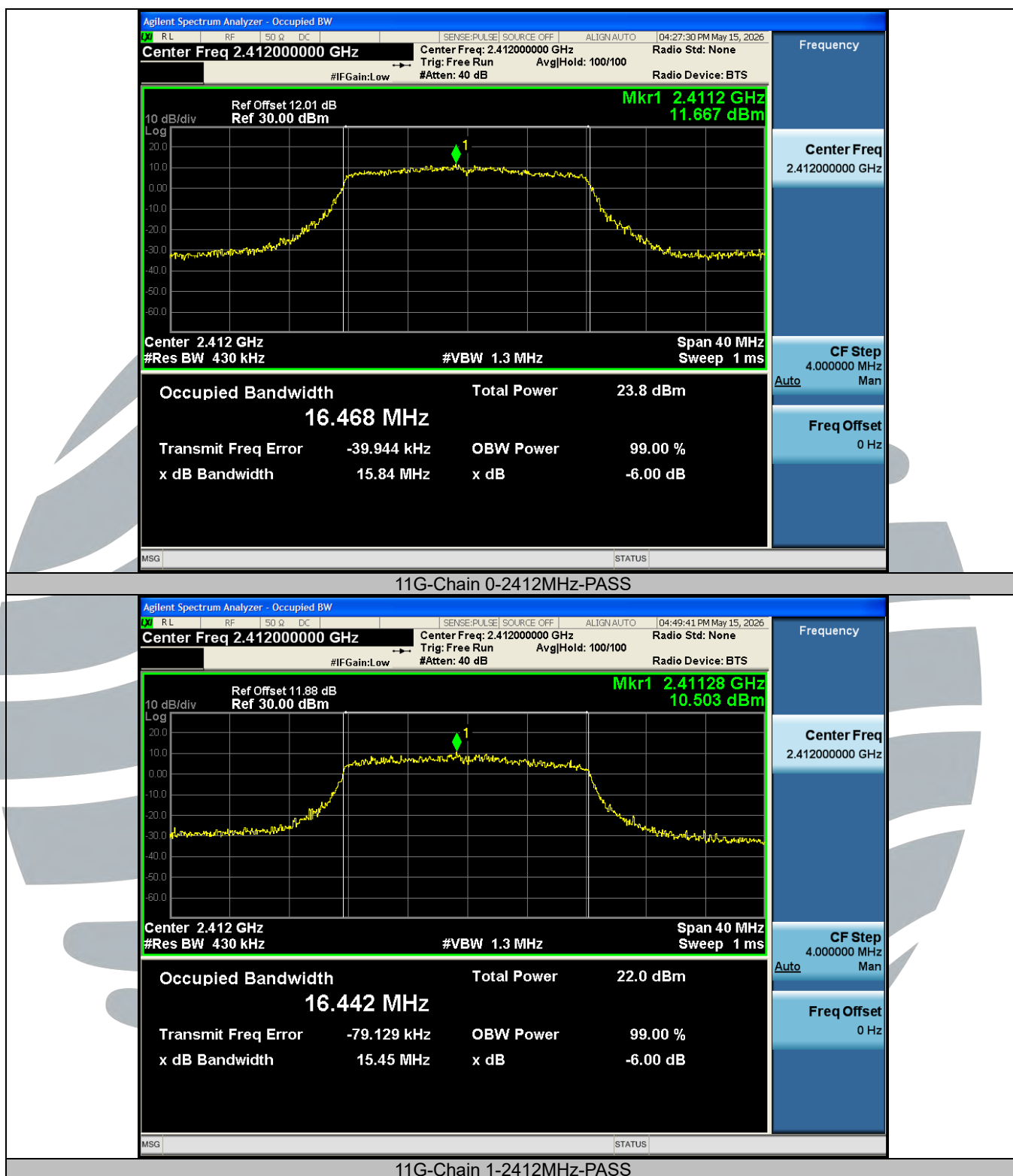
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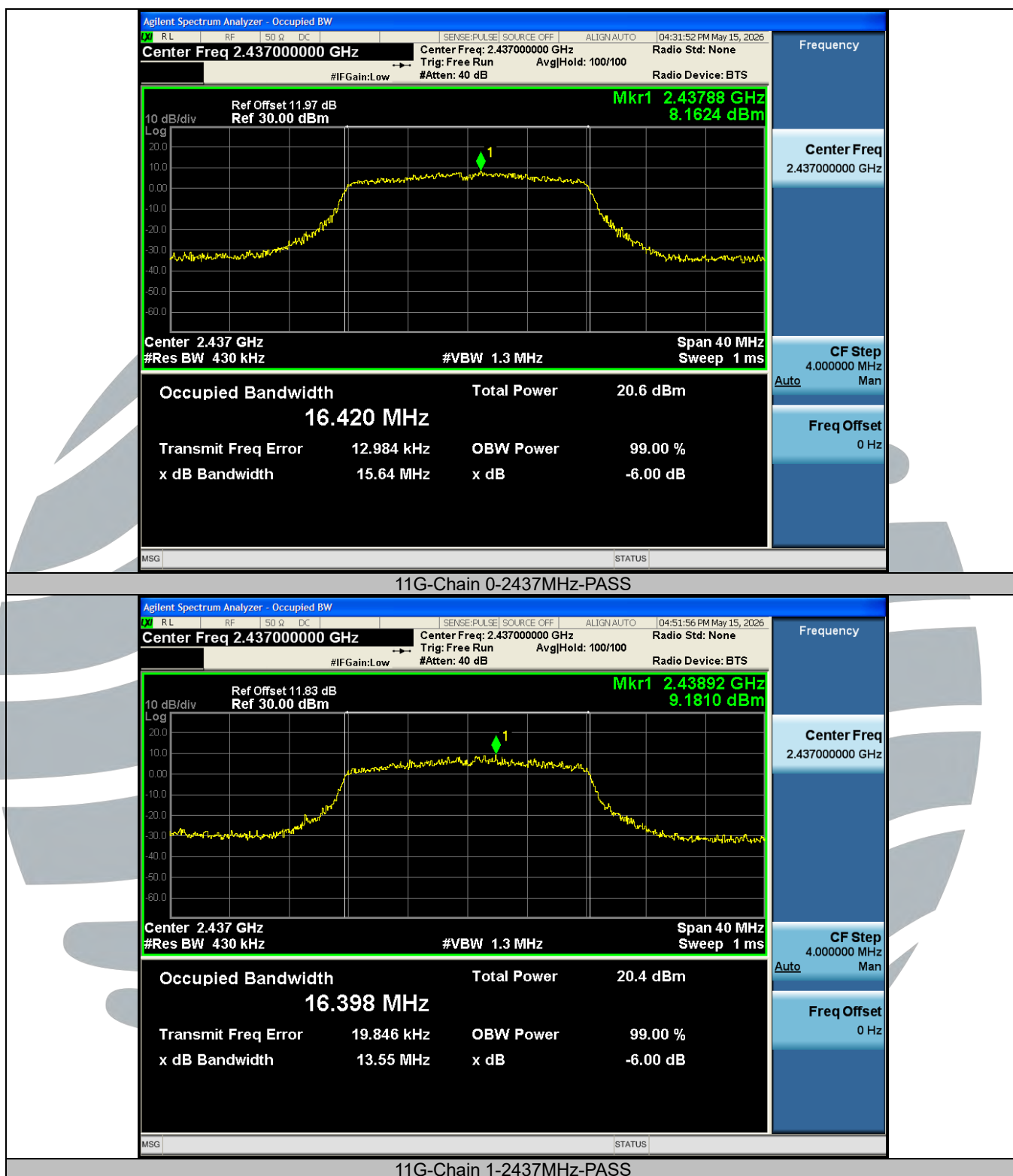
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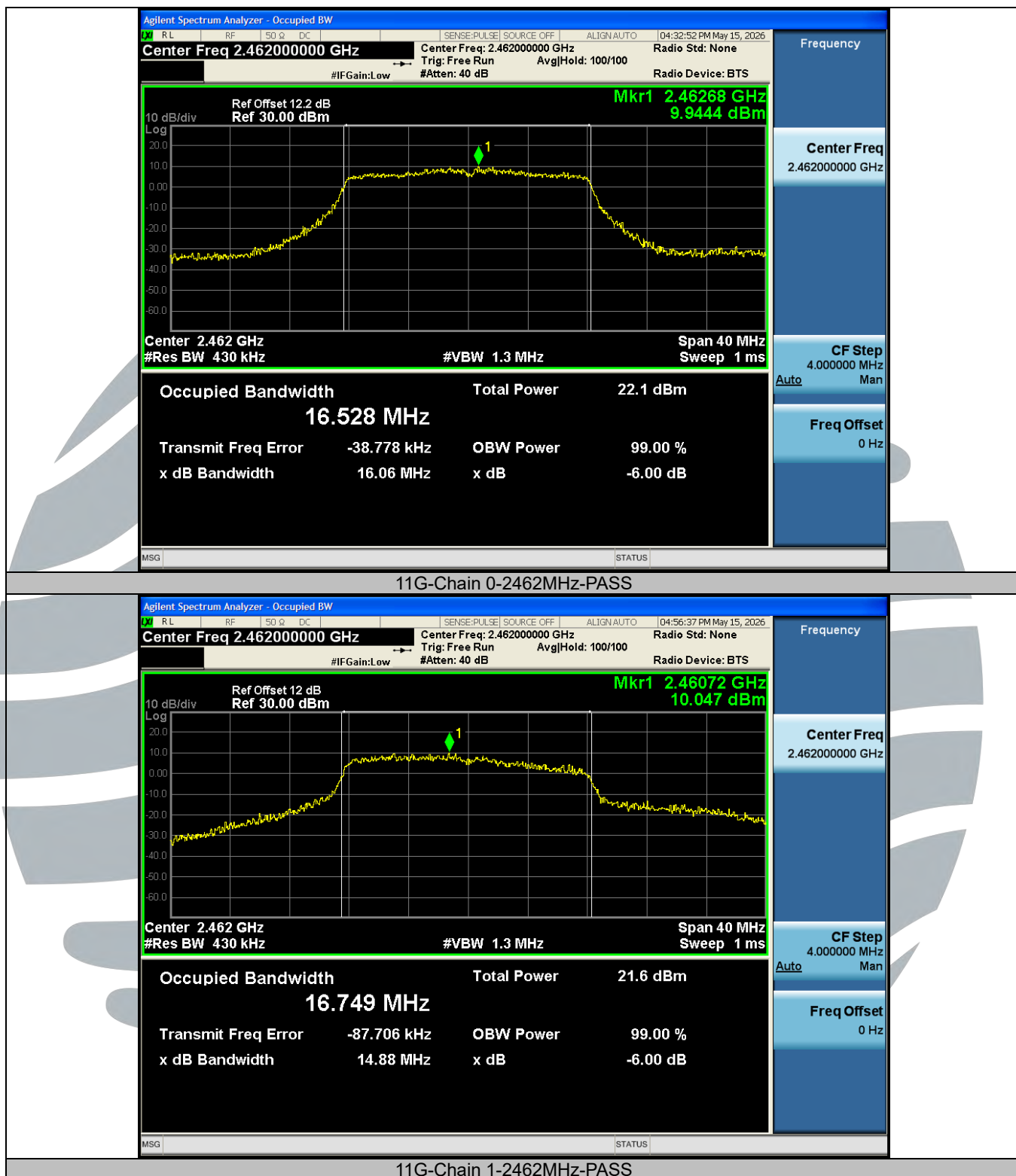
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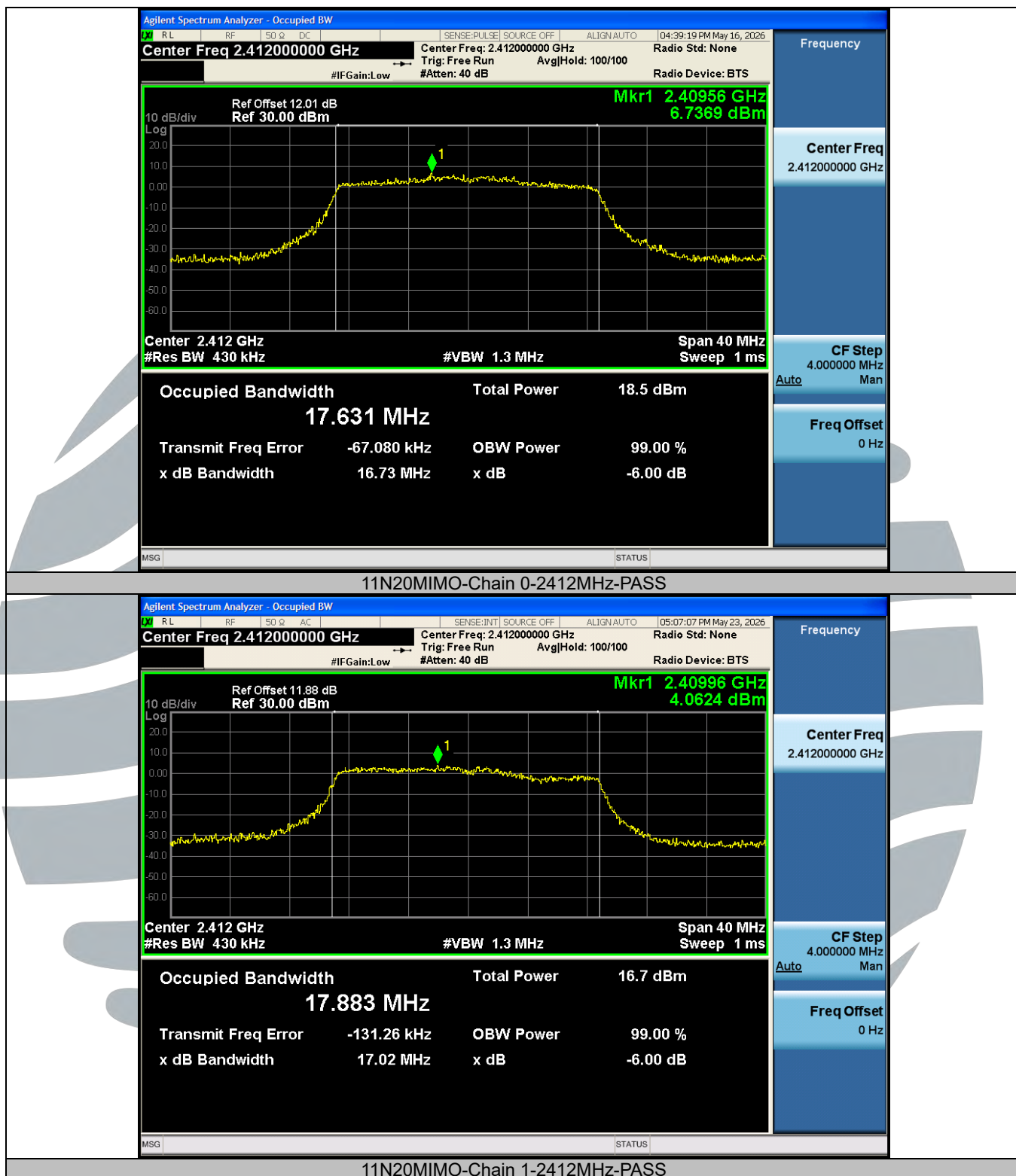
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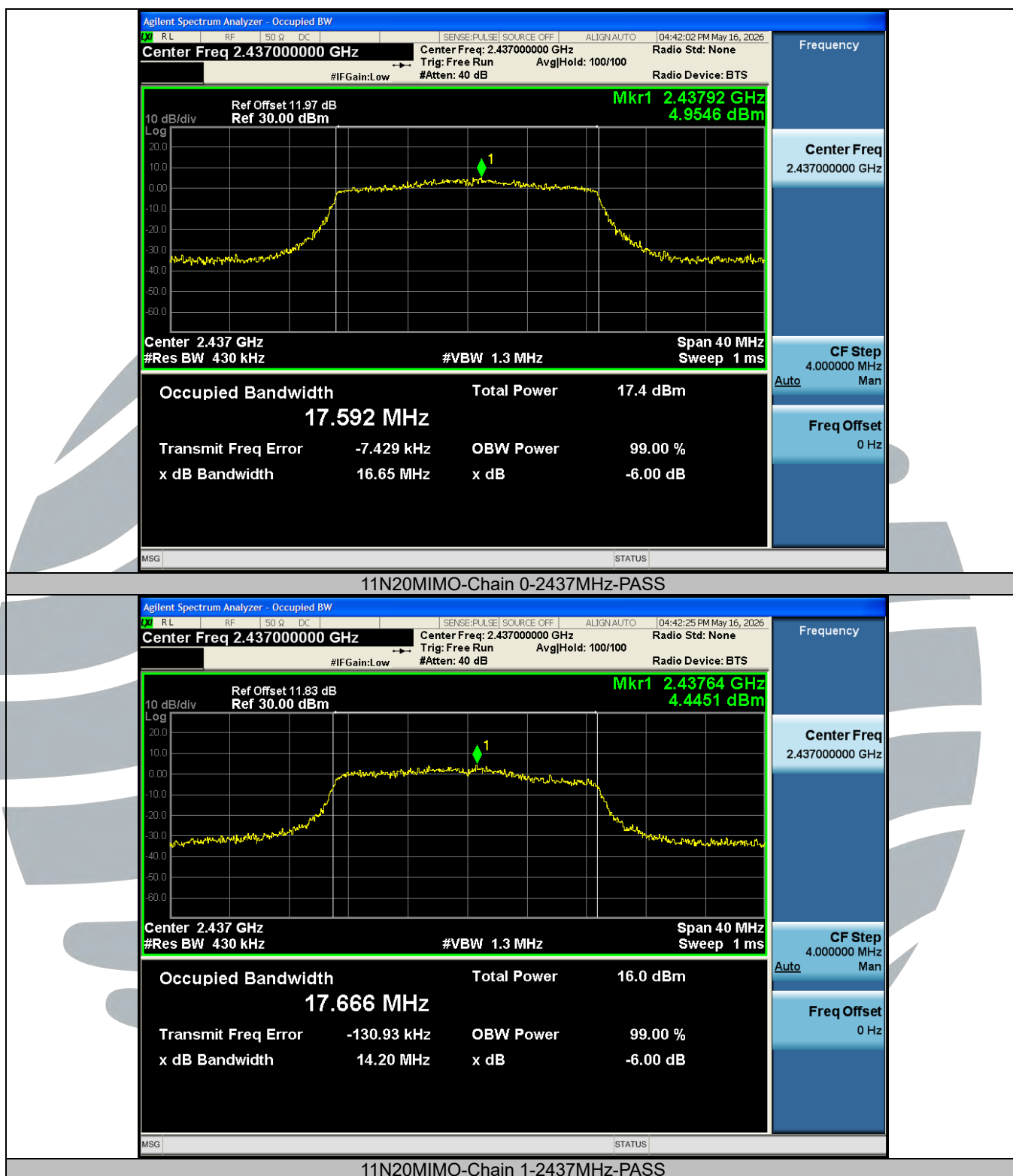
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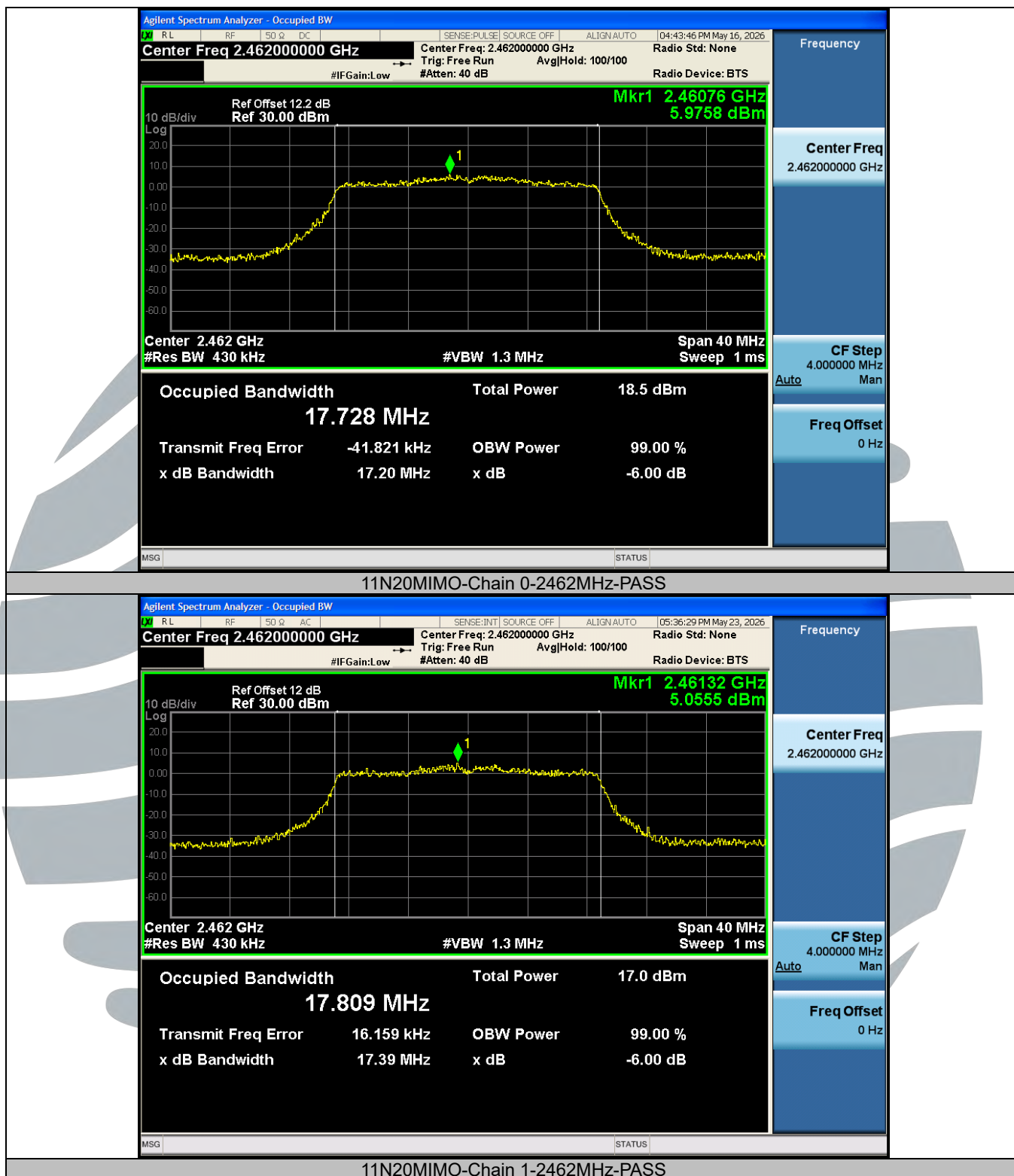
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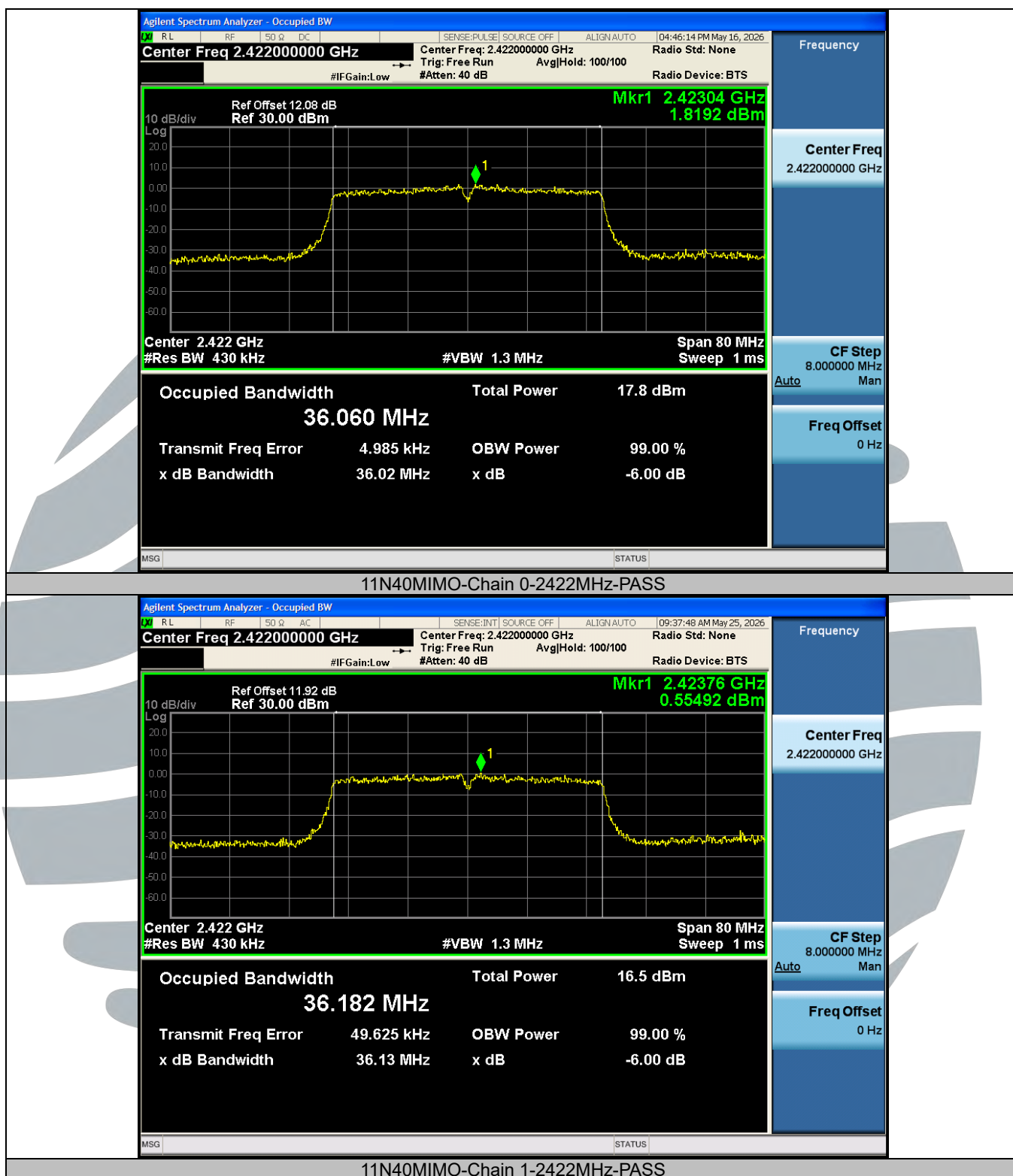
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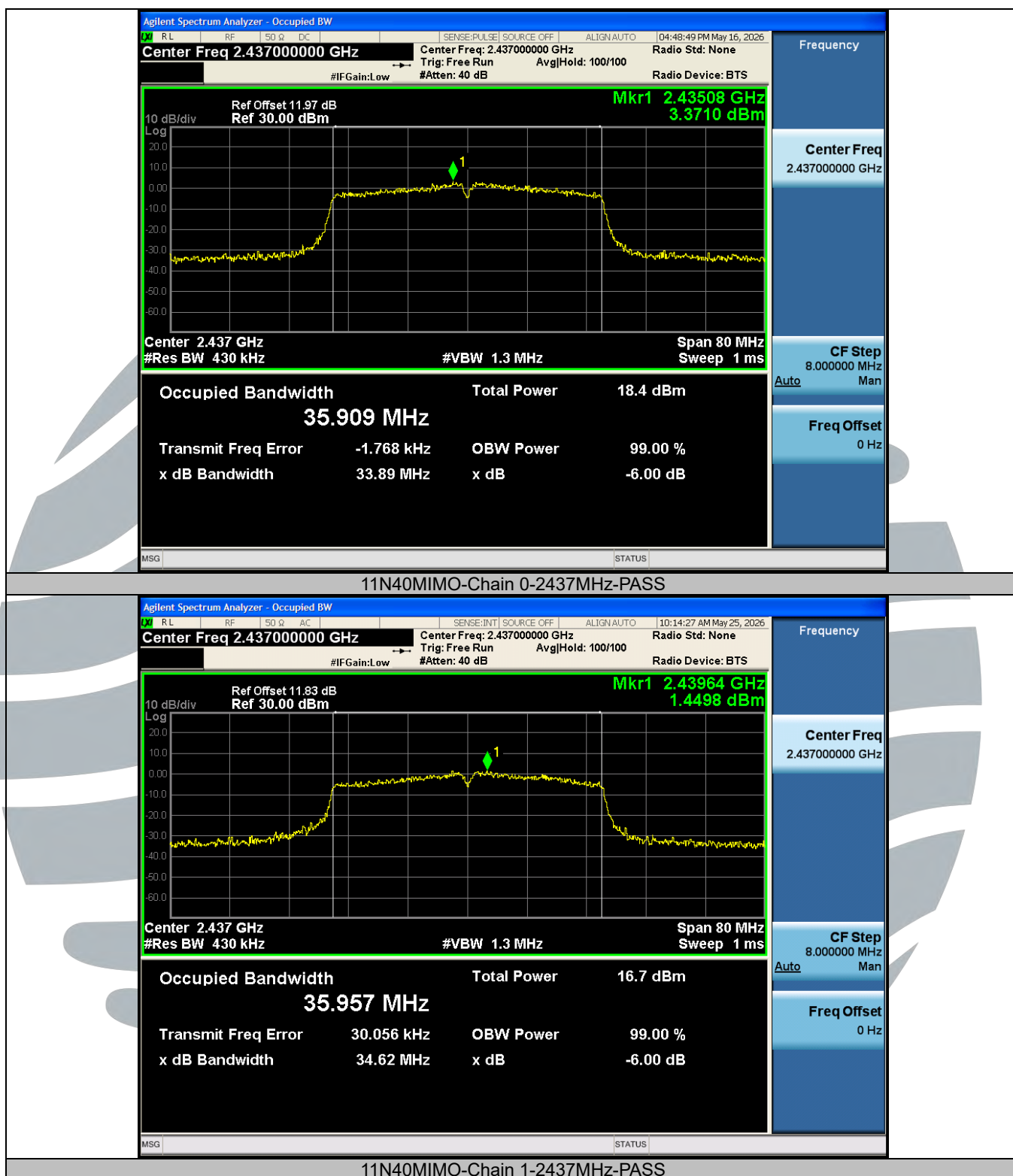
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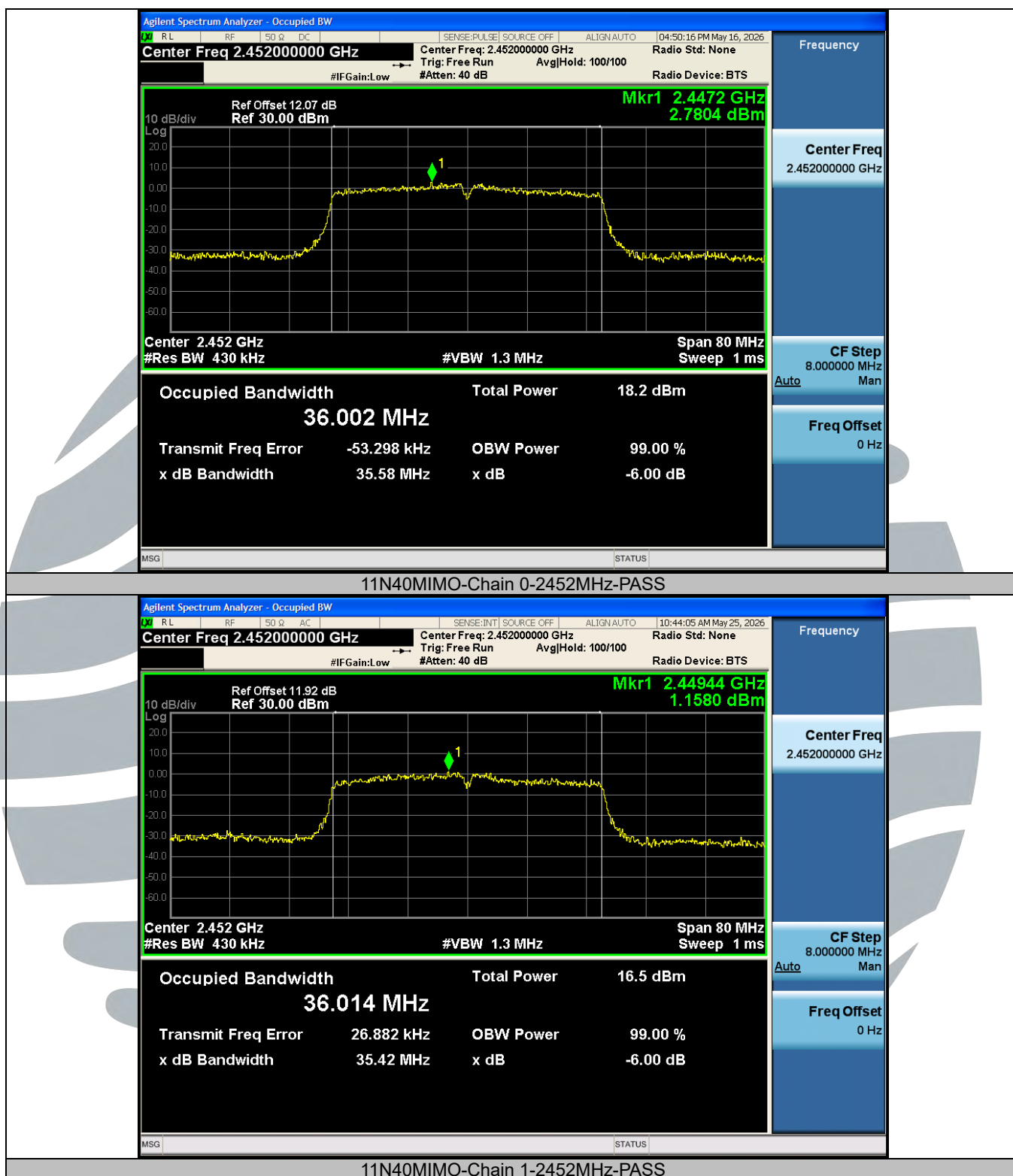
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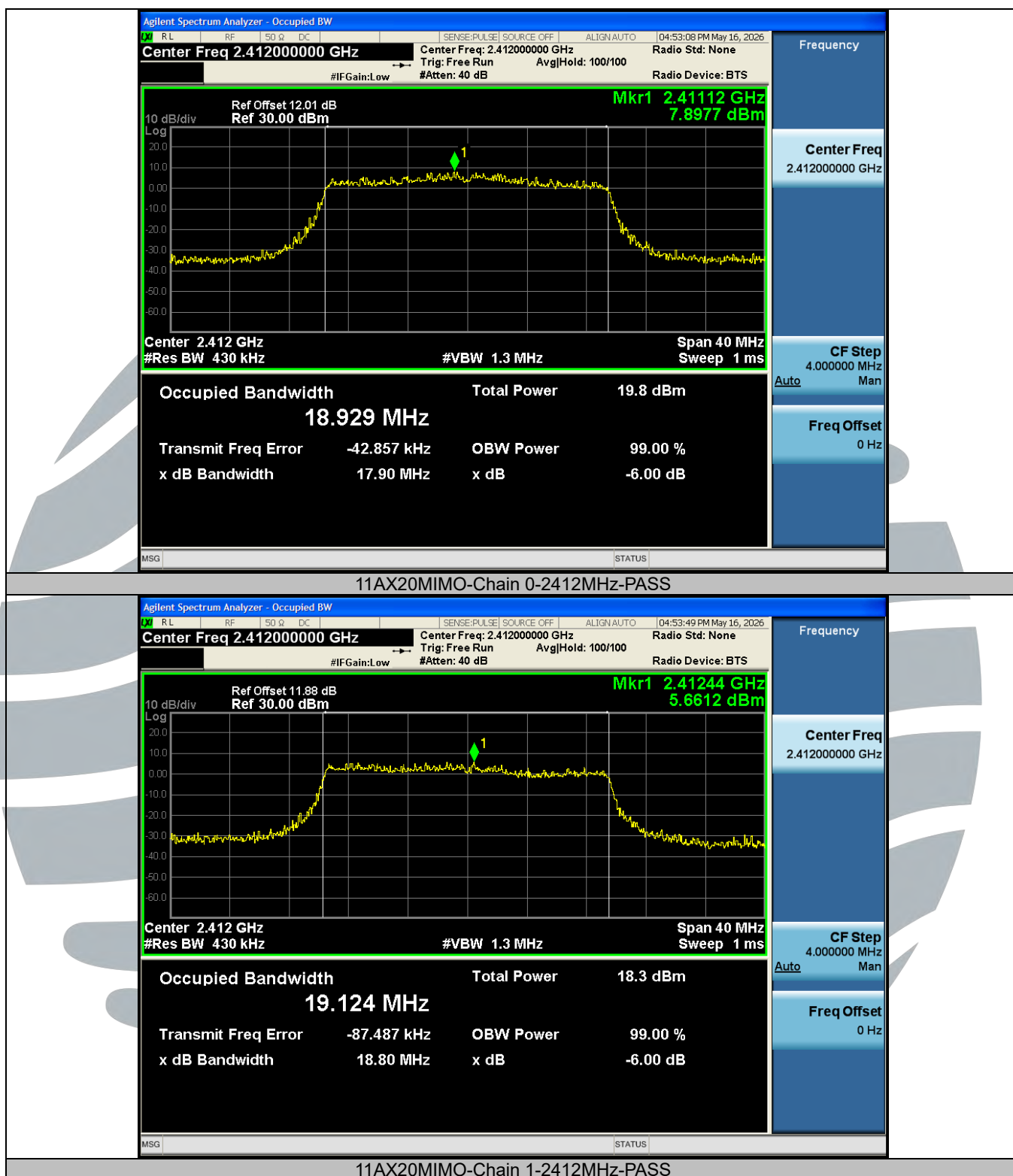
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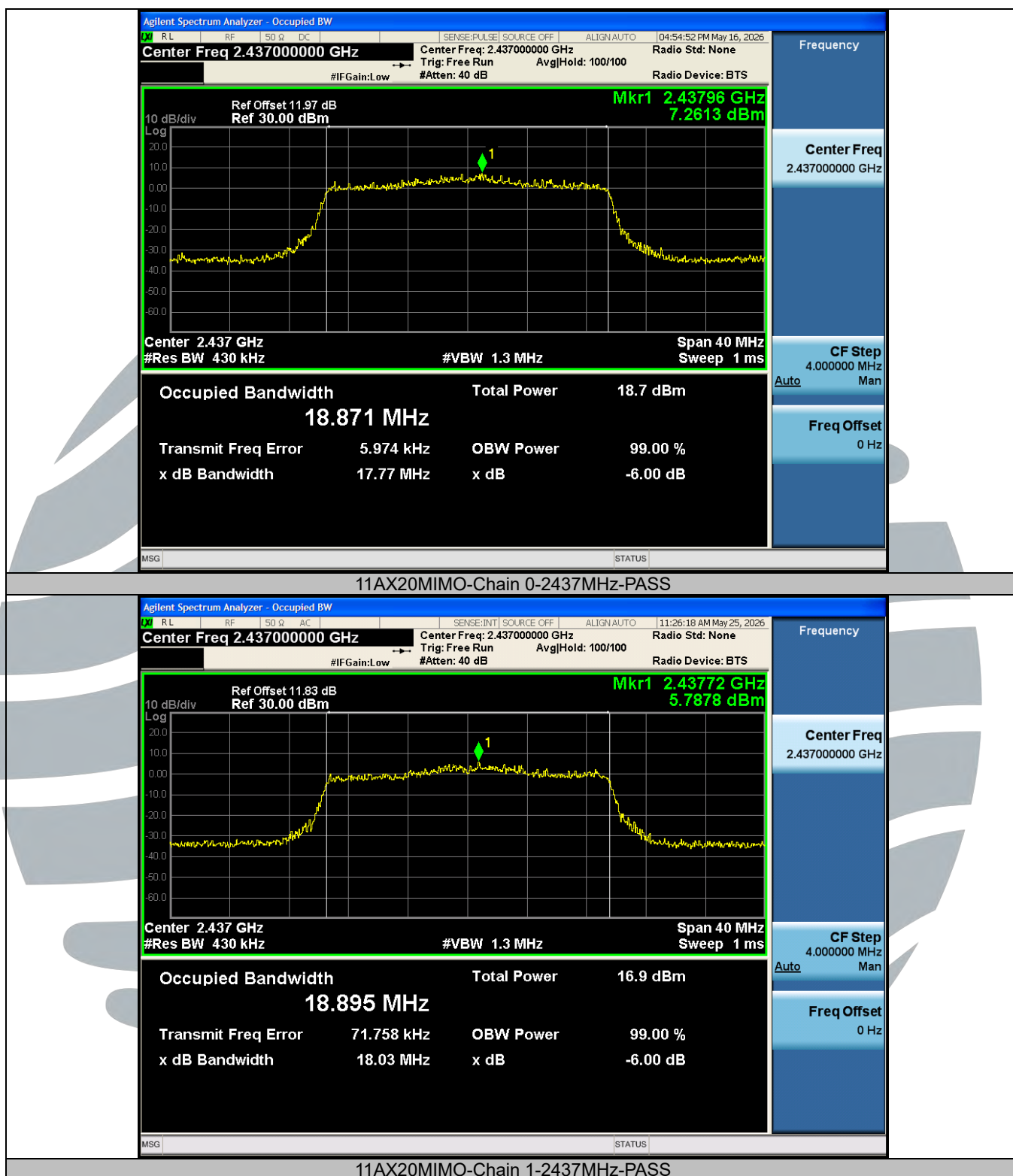
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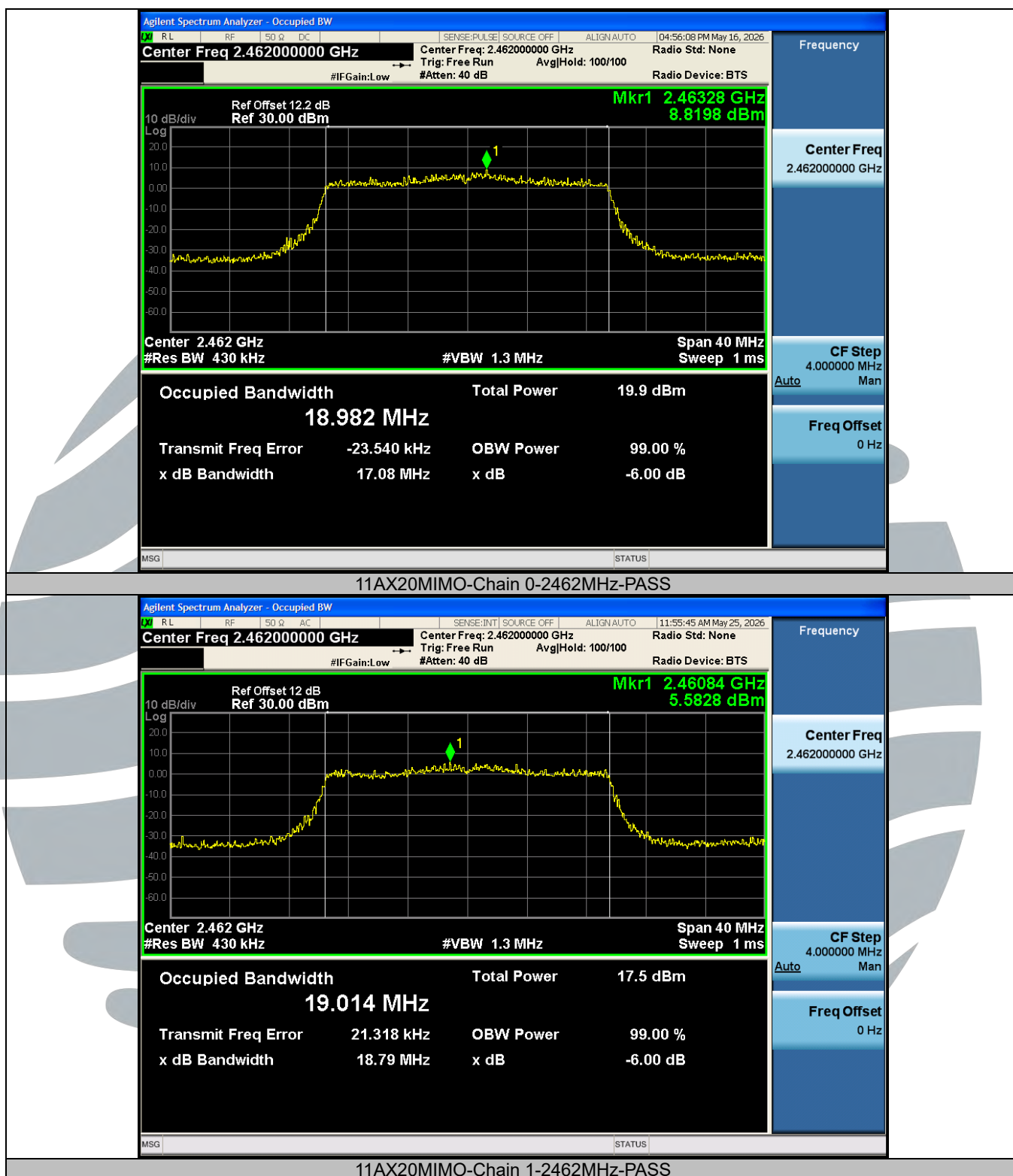
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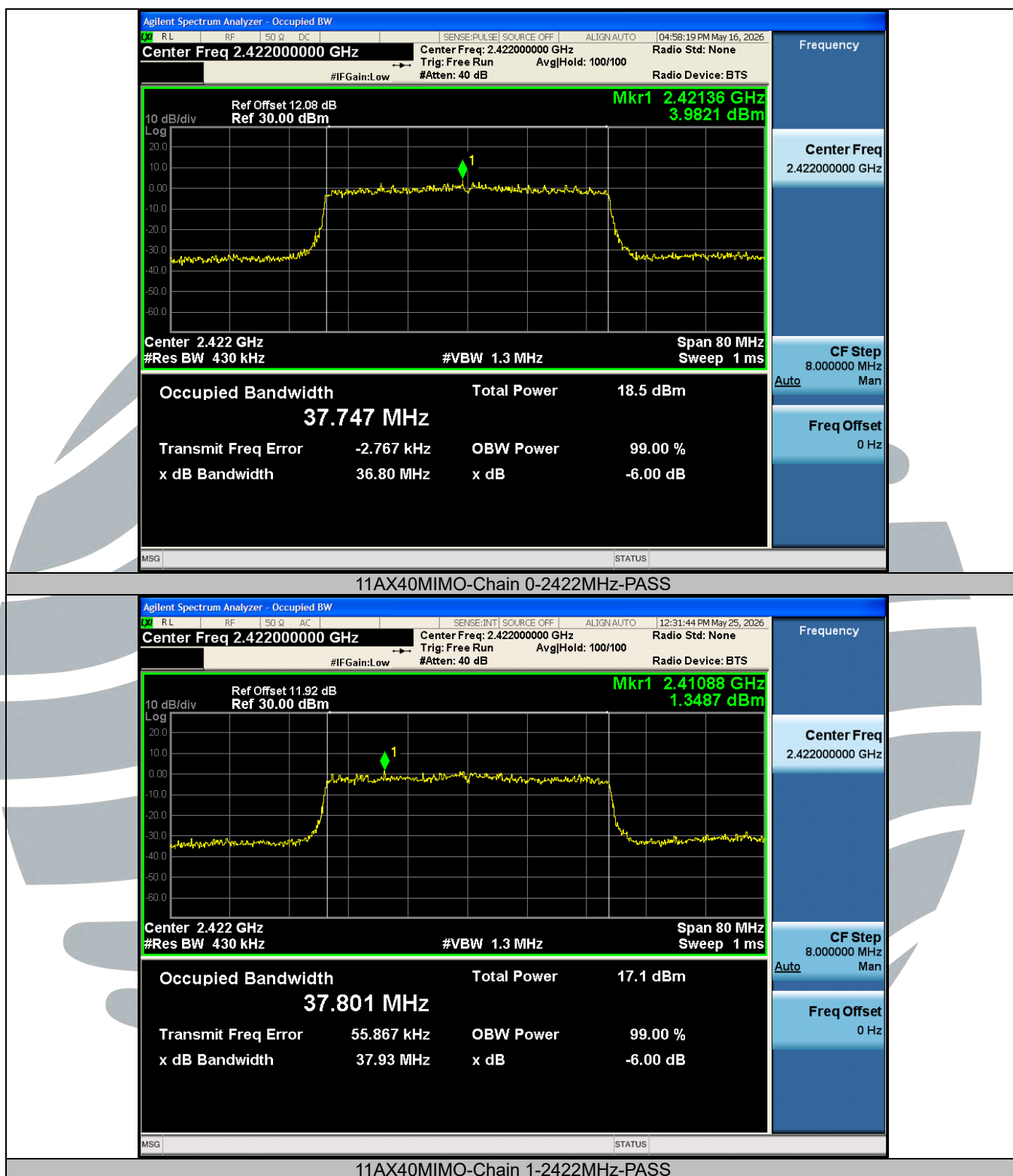
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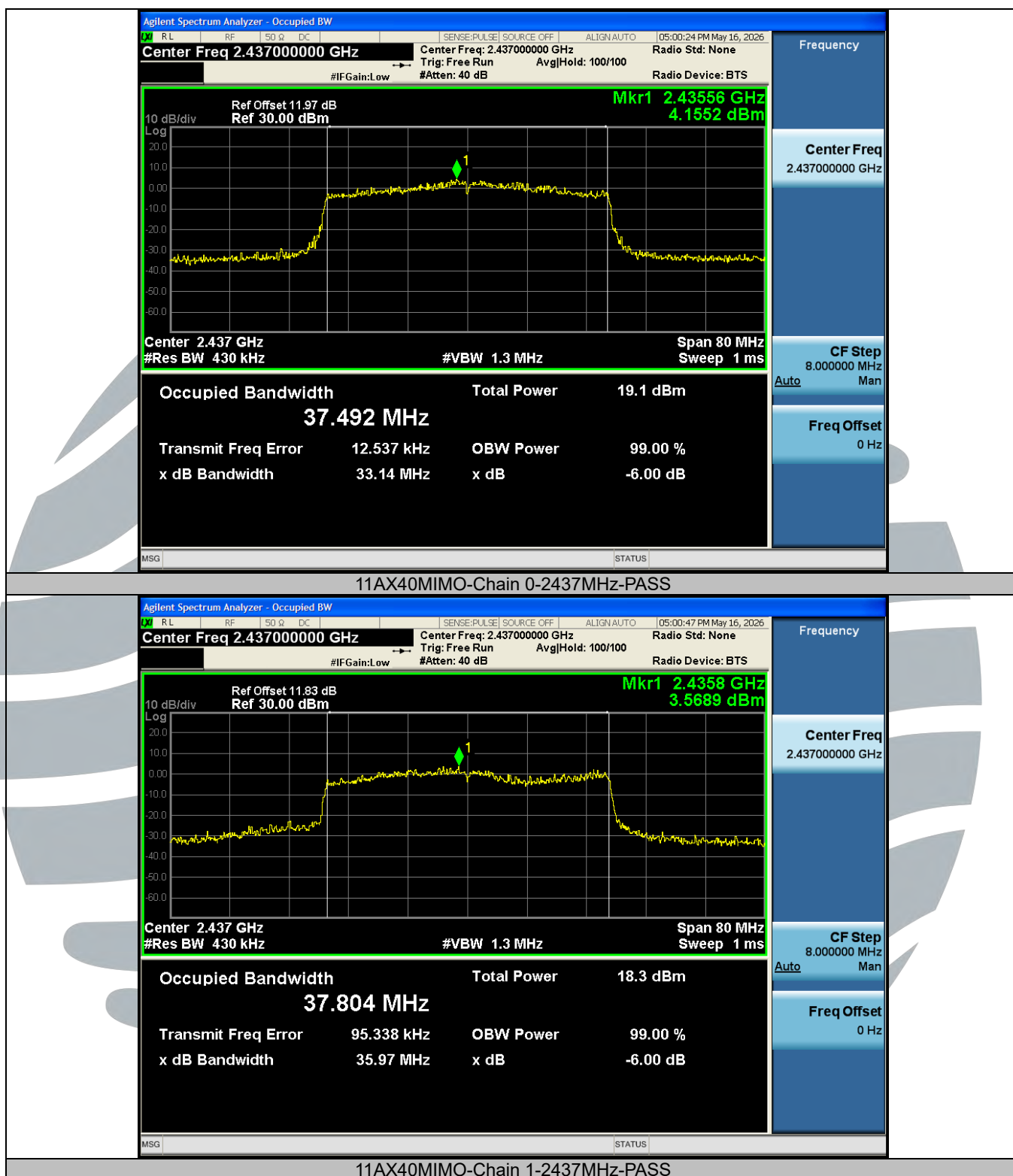
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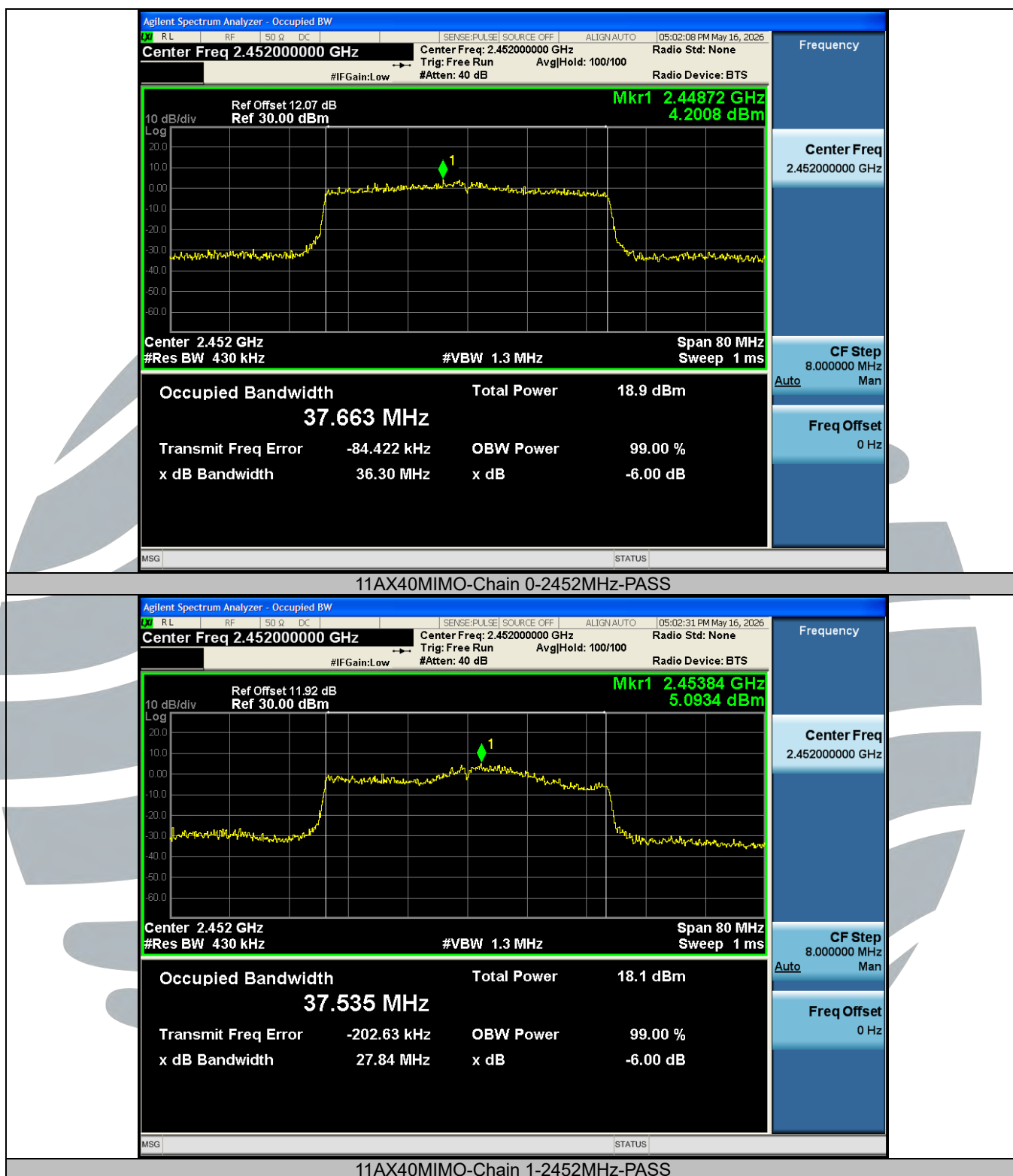
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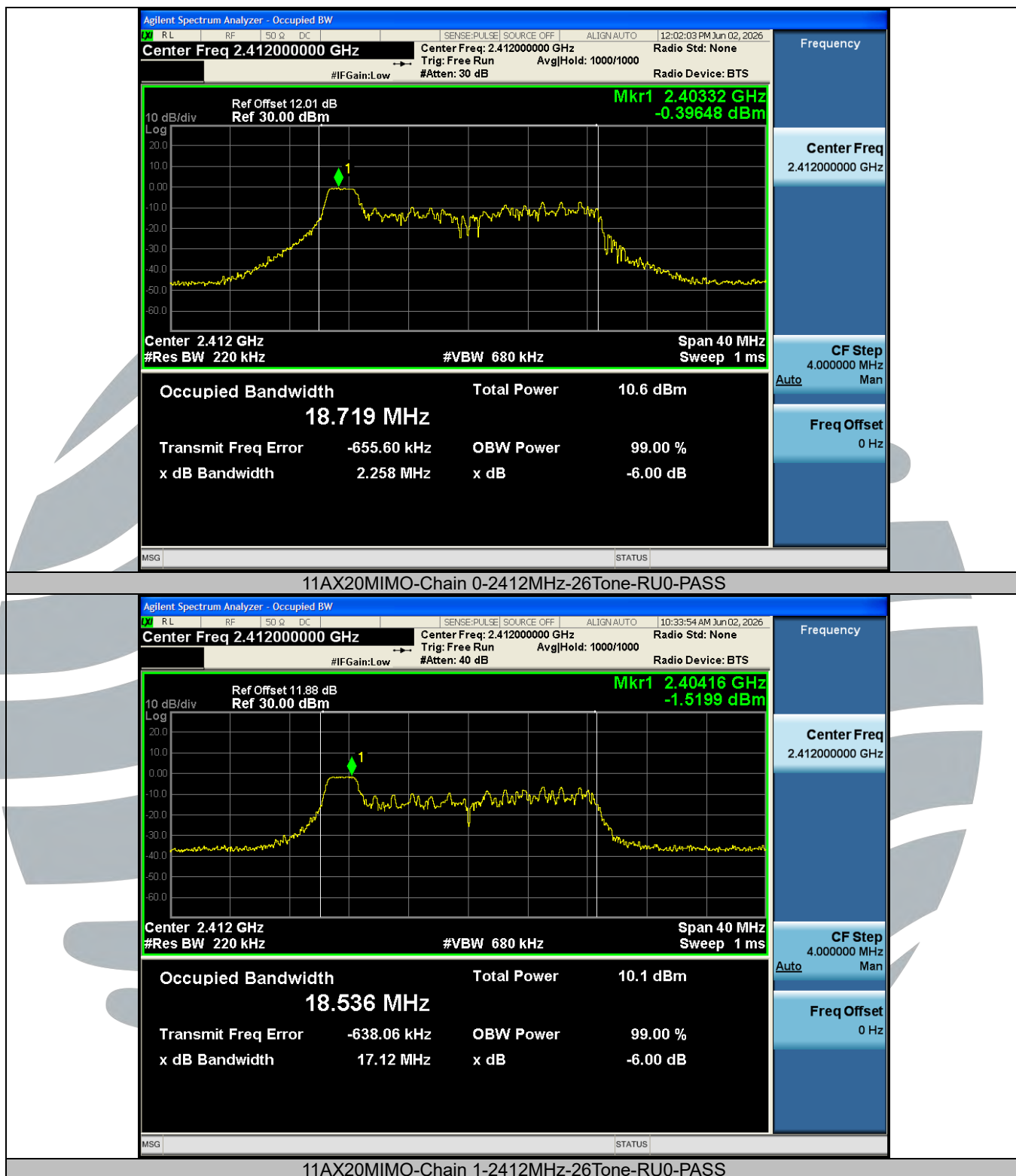
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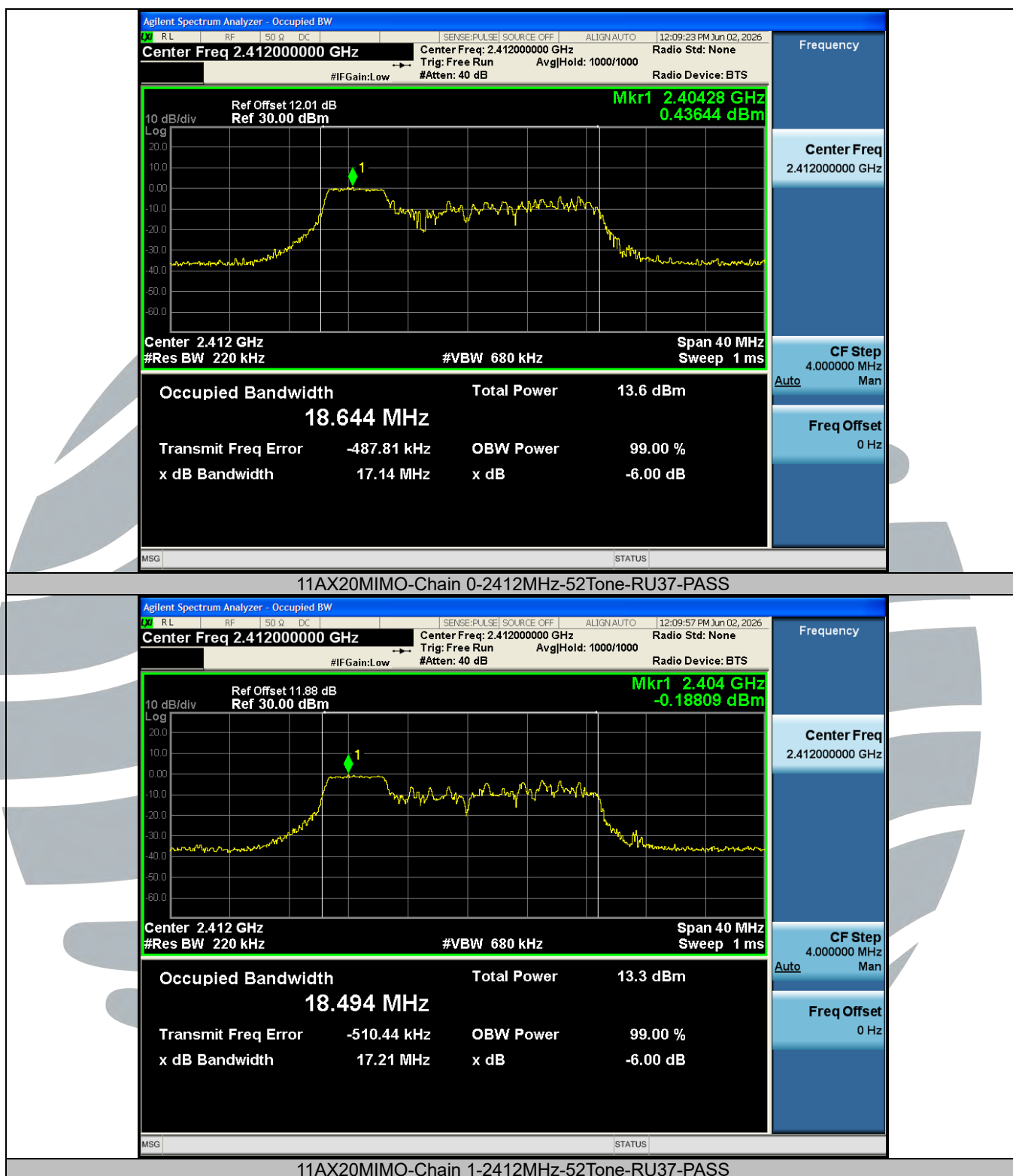
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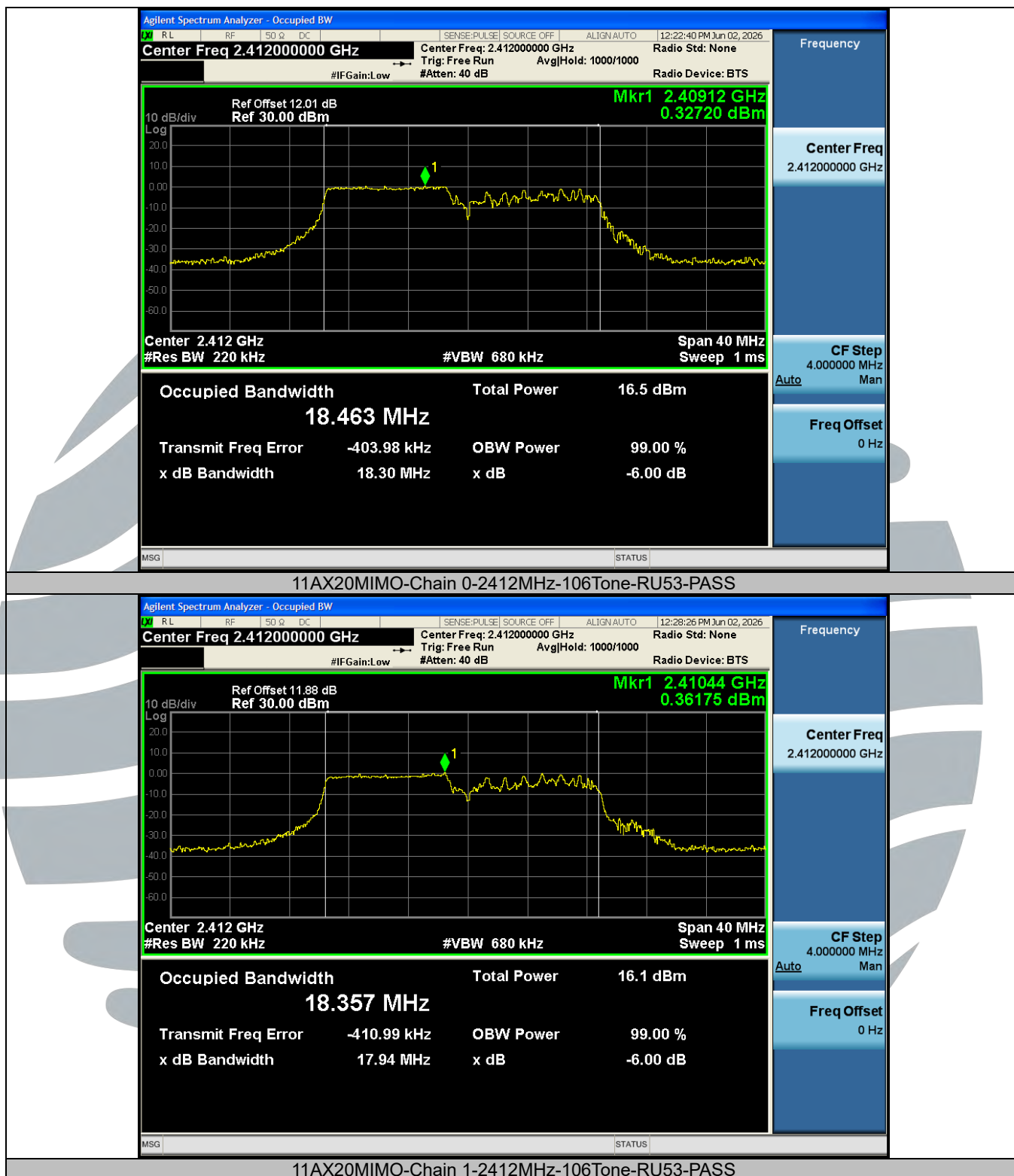
Address: 16/F., Block A, Building 6, Baoneng Science and Technology Park, Longhua Street, Longhua District, Shenzhen, Guangdong, China

Tel: +86-755-28230888

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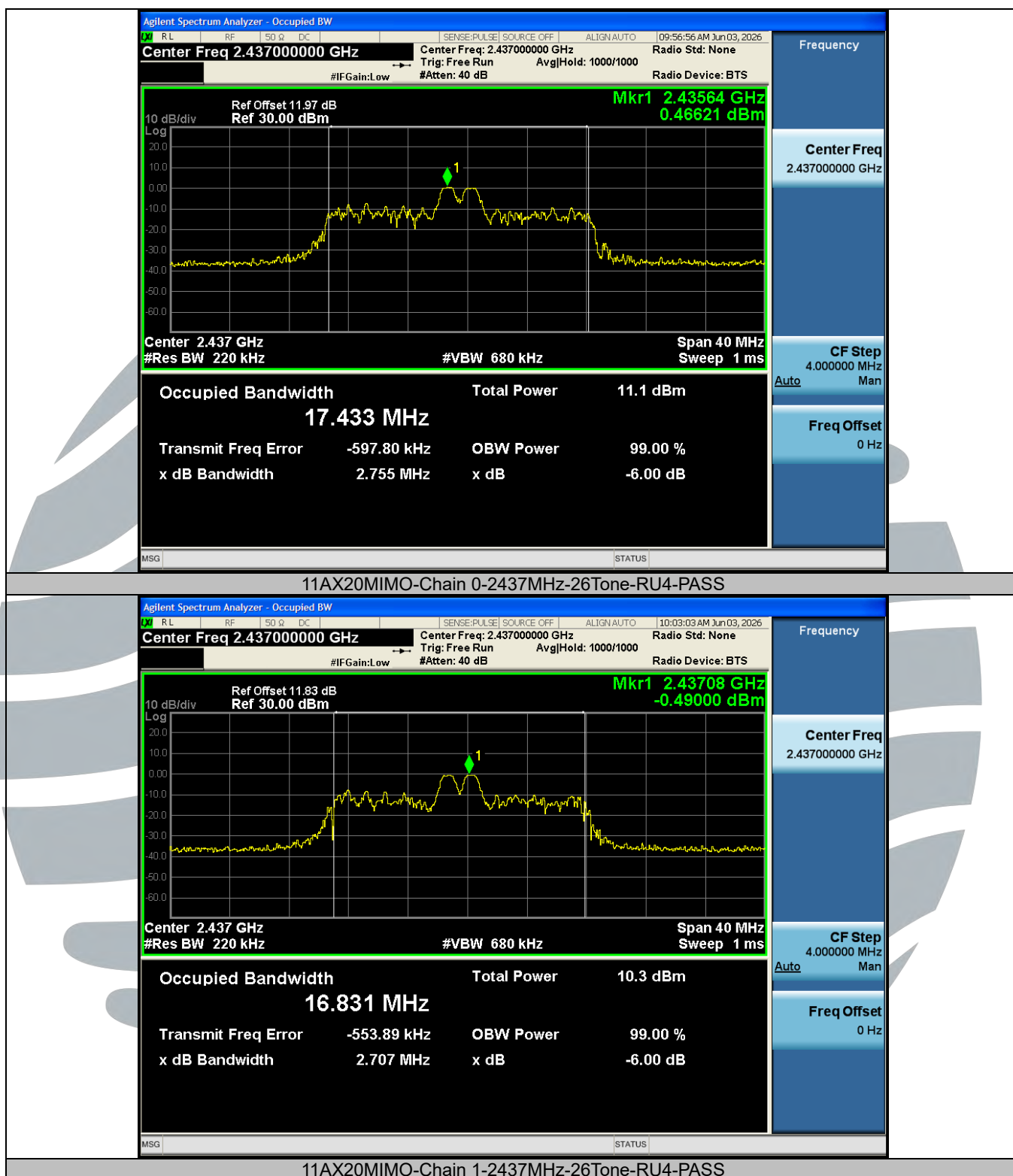
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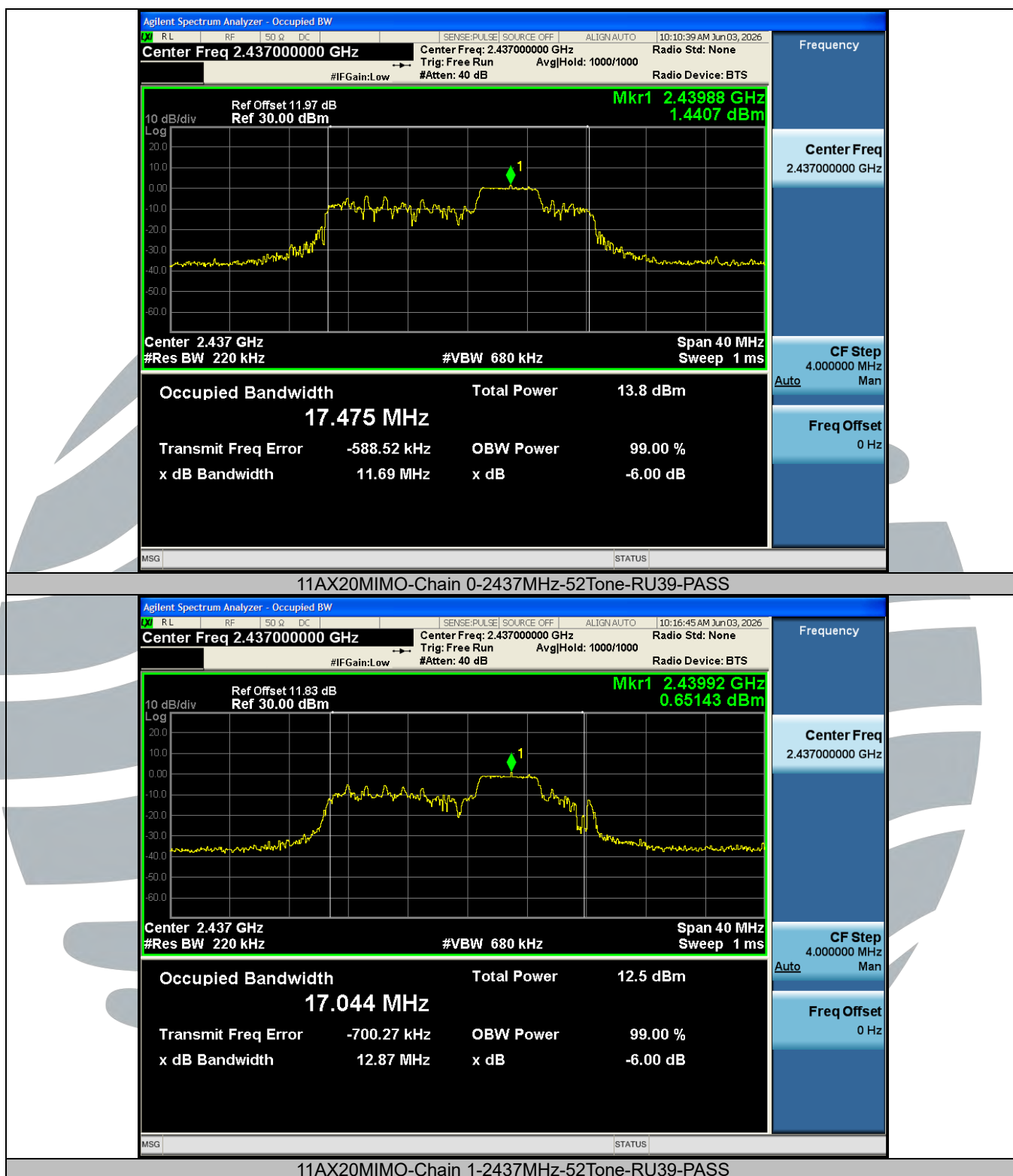
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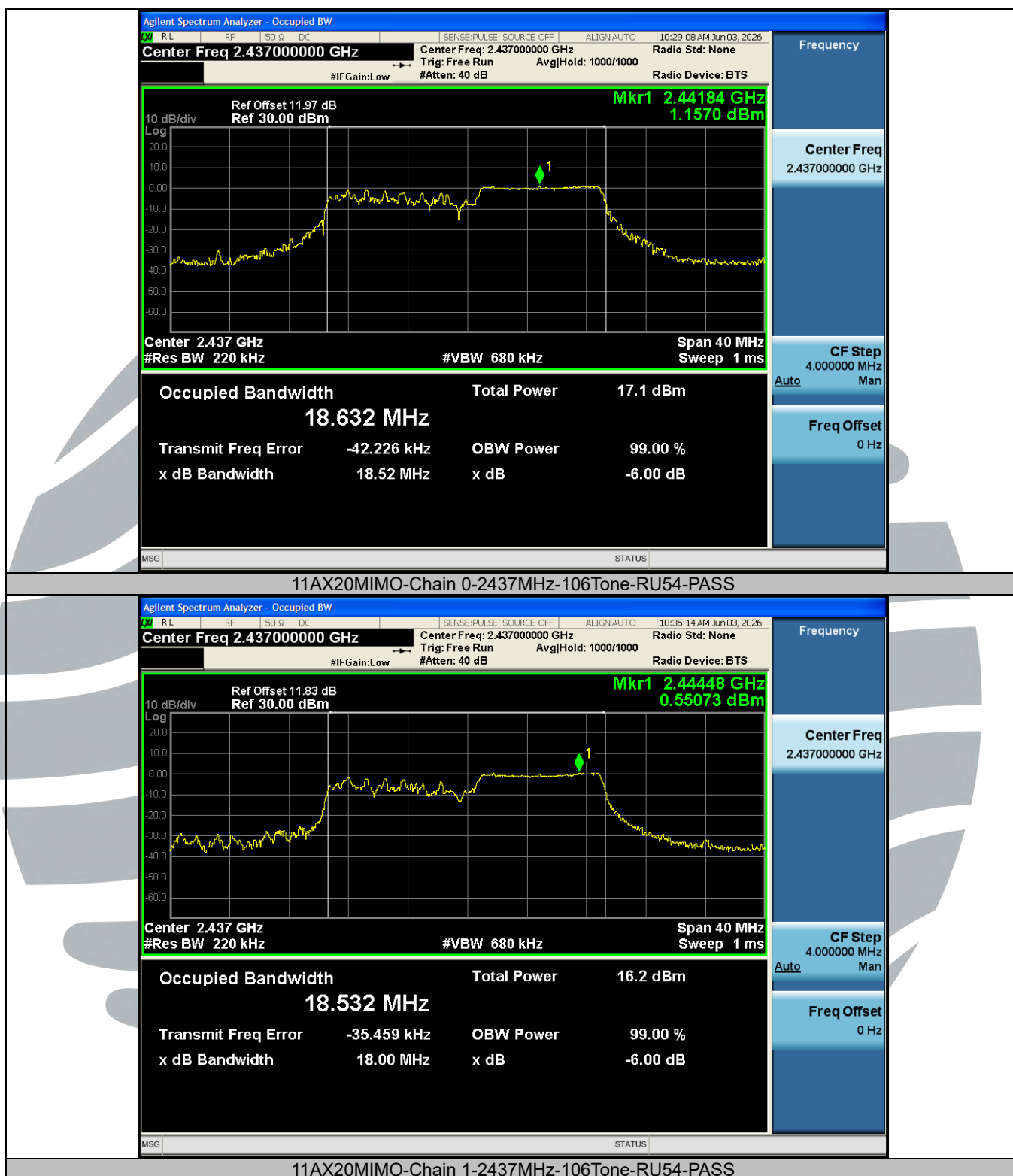
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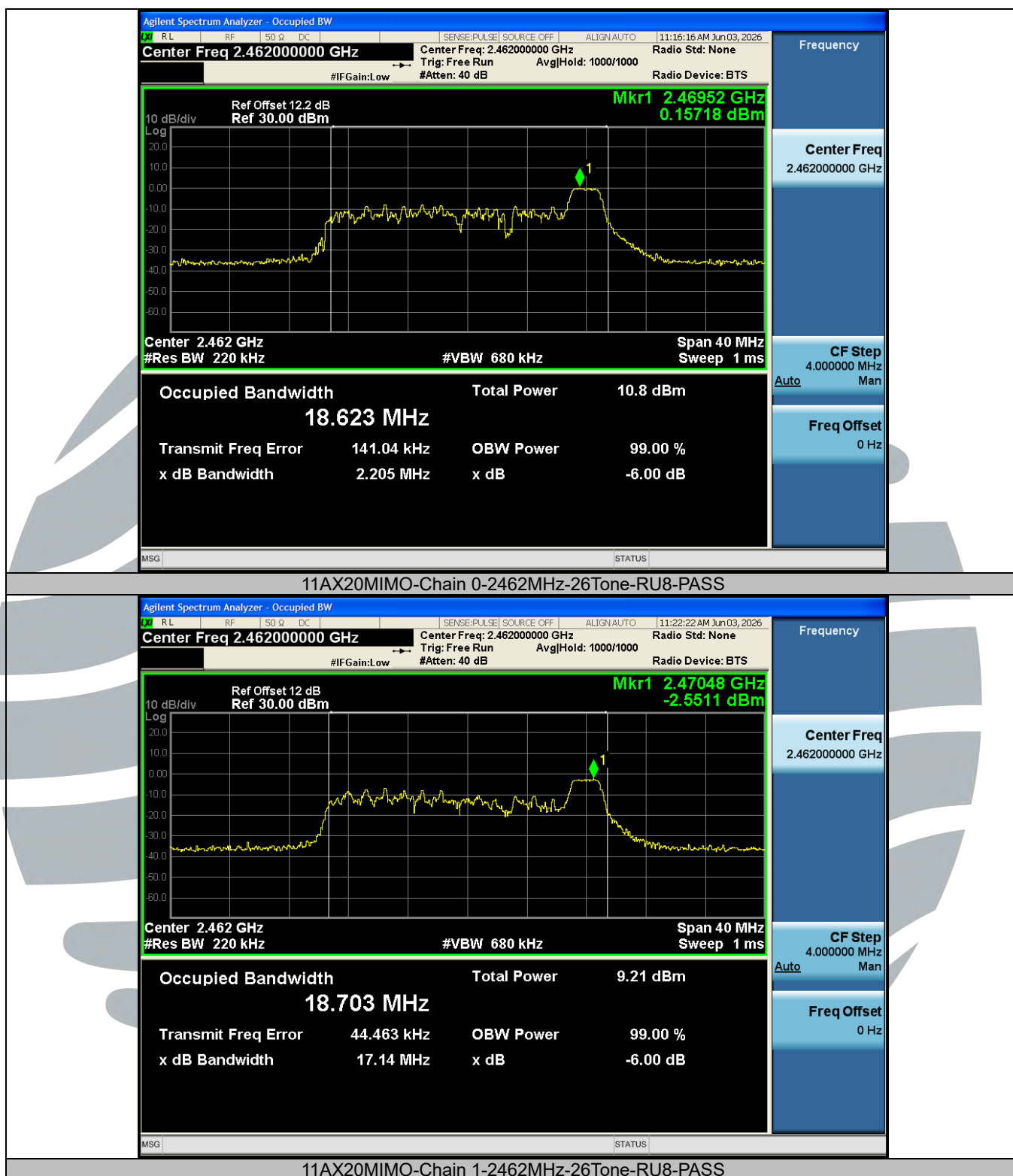
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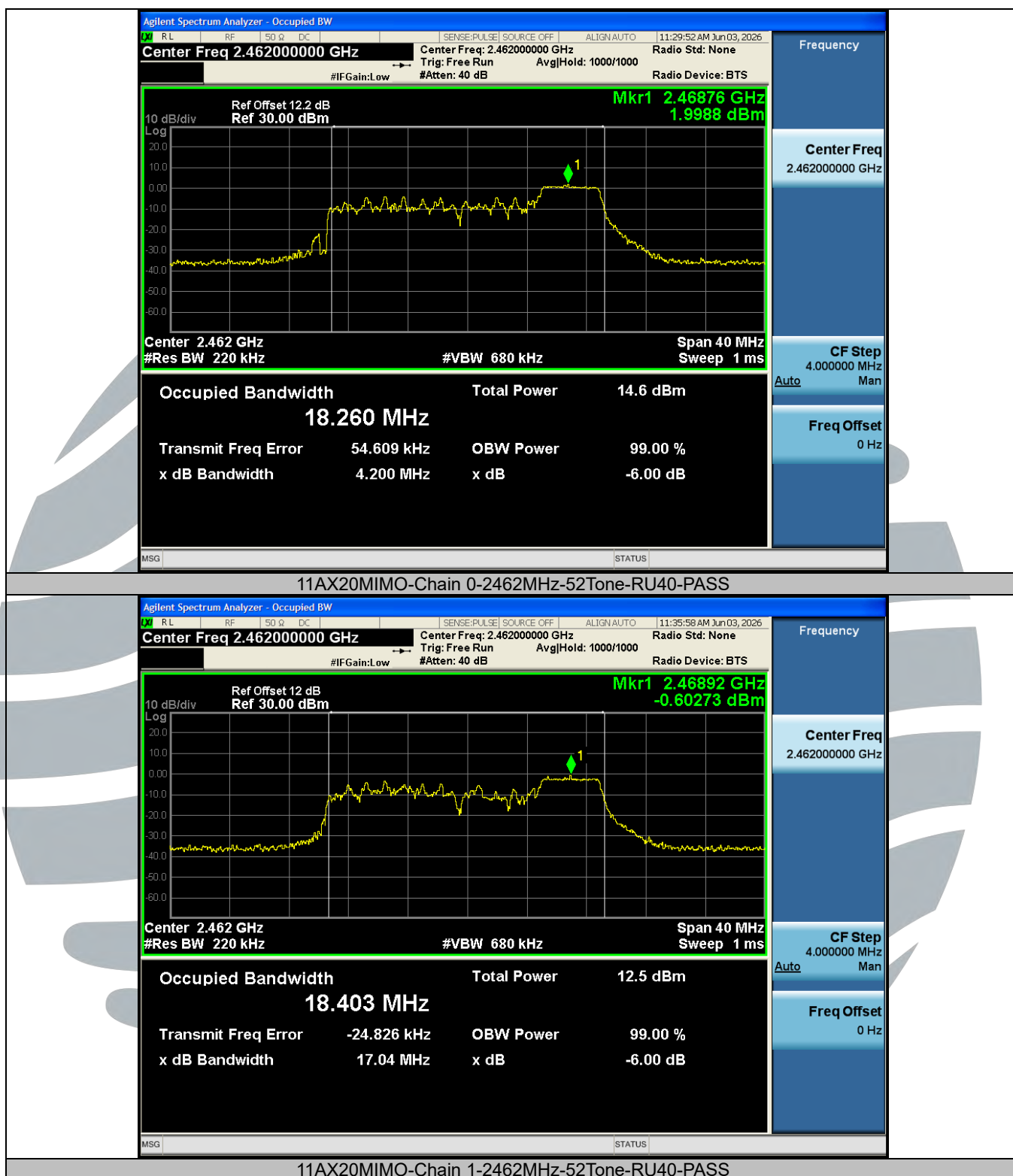
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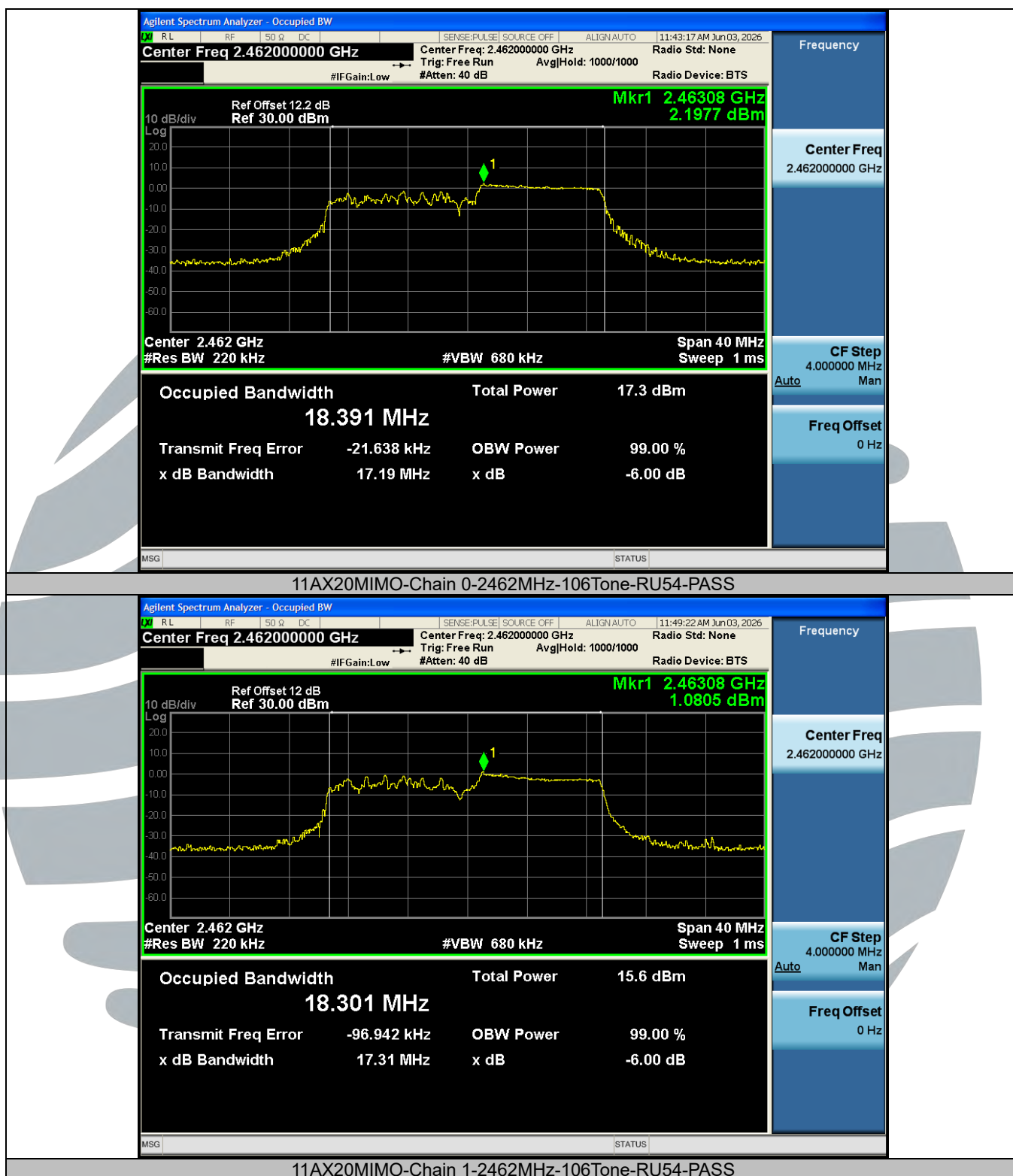
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5.5 OCCUPIED BANDWIDTH

Test Requirement: FCC 47 CFR Part 15 Subpart C Section 15.247 (a)(2)

Test Method: ANSI C63.10-2020 Clause 6.9.3

Limit: For direct sequence systems, the minimum 6dB bandwidth shall be at least 500kHz

Test Procedure: Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.

Use the following spectrum analyzer settings:

- Set RBW = 1% to 5% of the occupied bandwidth
- Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
- Detector = Peak.
- Trace mode = max hold.
- Sweep = auto couple.
- Allow the trace to stabilize.

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 Mode: Tx mode

Test Results:

Test Mode	RU&Index	Frequency [MHz]	OBW [MHz]	
			Chain 0	Chain 1
11B	--	2412	13.287	13.272
11B	--	2437	13.261	13.186
11B	--	2462	13.347	13.541
11G	--	2412	16.486	16.423
11G	--	2437	16.407	16.429
11G	--	2462	16.532	16.578
11N20MIMO	--	2412	17.6	17.825
11N20MIMO	--	2437	17.697	17.629
11N20MIMO	--	2462	18.146	17.788
11N40MIMO	--	2422	36.196	36.309
11N40MIMO	--	2437	35.891	35.998
11N40MIMO	--	2452	35.999	36.106
11AX20MIMO	SU	2412	18.923	18.947
11AX20MIMO	SU	2437	18.883	18.899
11AX20MIMO	SU	2462	19.029	19.011
11AX20MIMO	26ToneRU0	2412	19.142	18.725
11AX20MIMO	52ToneRU37	2437	18.85	18.717
11AX20MIMO	106ToneRU53	2462	18.522	18.534
11AX20MIMO	26ToneRU4	2412	17.454	17.194
11AX20MIMO	52ToneRU39	2437	17.26	17.39
11AX20MIMO	106ToneRU54	2462	18.765	18.728
11AX20MIMO	26ToneRU8	2412	18.884	18.935
11AX20MIMO	52ToneRU40	2437	18.555	18.594
11AX20MIMO	106ToneRU54	2462	18.543	18.433
11AX40MIMO	SU	2422	37.863	37.991
11AX40MIMO	SU	2437	37.551	37.794
11AX40MIMO	SU	2452	37.725	37.628

