



FCC TEST REPORT

Product Name: Smartphone
Trade Mark: INVENTUS
Model No.: Inventus PD1
Add. Model No.: N/A
Report Number: 26052925036RFC-4
Test Standards: FCC 47 CFR Part 15 Subpart E
FCC ID: 2BDXXPD1
Test Result: PASS
Date of Issue: September 18, 2026

Prepared for:

INVENTUS GROUP LTD
C/O FLB ACCOUNTANTS LLP 1010 ESKDALE ROAD
WINNERSH TRIANGLE WOKINGHAM UNITED KINGDOM RG41 5TS

Prepared by:

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September 18, 2026

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Version

Version No.	Date	Description
V1.0	September 18, 2026	Original



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1. GENERAL INFORMATION

1.1 CLIENT INFORMATION

Applicant:	INVENTUS GROUP LTD
Address of Applicant:	C/O FLB ACCOUNTANTS LLP 1010 ESKDALE ROAD WINNERSH TRIANGLE WOKINGHAM UNITED KINGDOM RG41 5TS
Manufacturer:	INVENTUS GROUP LTD
Address of Manufacturer:	C/O FLB ACCOUNTANTS LLP 1010 ESKDALE ROAD WINNERSH TRIANGLE WOKINGHAM UNITED KINGDOM RG41 5TS

1.2 EUT INFORMATION

1.2.1 General Description of EUT

Product Name:	Smartphone			
Model No.:	Inventus PD1			
Trade Mark:	INVENTUS			
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/ 17/ 25/ 26/ 30/ 66/ 71		
		TDD Band 38/ 41/ 42/ 43/ 48		
	NR Bands:	FDD n2/ 5/ 7/ 12/ 25/ 26/ 66/ 71		
		TDD n38/ 41/ 77/ 78		
	2.4 GHz ISM Band:	IEEE 802.11b/g/n/ax		
		Bluetooth V5.4		
	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		
NFC:	13.553 MHz to 13.567 MHz			
WPTs (Only Rx):	119 kHz to 140 kHz			
Software Version:	SW1_V4.10_GPD1INVS_ROW_A16_040826 (Provided by the customer)			
Hardware Version:	HW1 (Provided by the customer)			
Sample Received Date:	May 25, 2026			
Sample Tested Date:	June 5, 2026 to July 24, 2026			
Remark:	The above EUT's information was provided by customer. Please refer to the specifications or user's manual for more detailed description.			

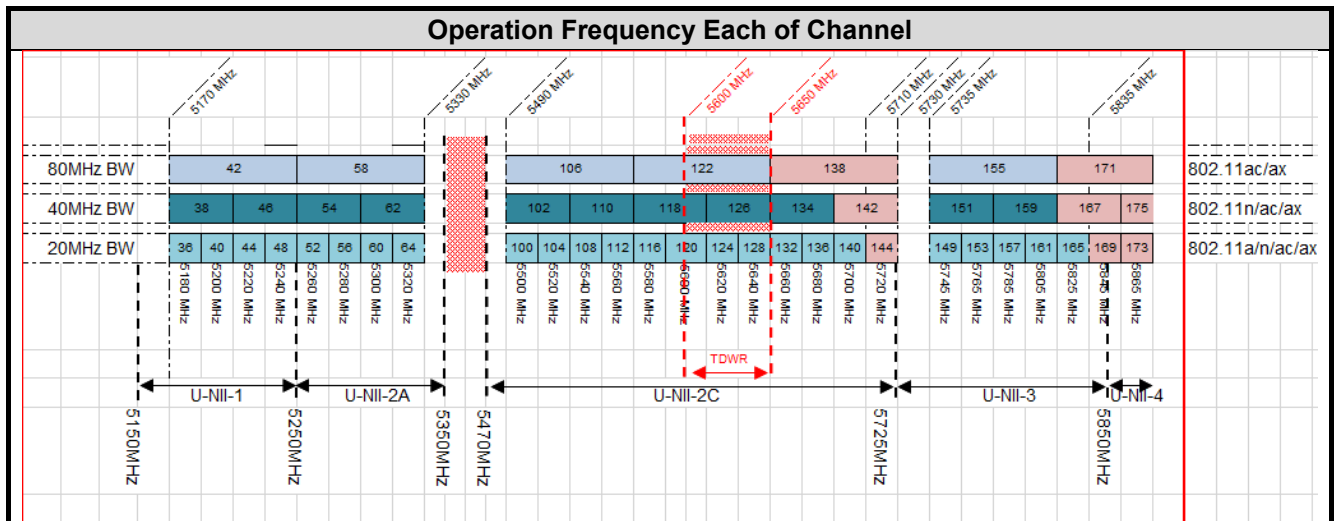
1.2.2 Description of Accessories

Refer to Report 26052925036EMC-1 for accessories.

1.3 PRODUCT SPECIFICATION SUBJECTIVE TO THIS STANDARD

Frequency Bands:	5150 MHz to 5250 MHz (U-NII-1)				
	5250 MHz to 5350 MHz (U-NII-2A)				
	5470 MHz to 5725 MHz (U-NII-2C)				
	5725 MHz to 5850 MHz (U-NII-3)				
Frequency Ranges:	5180 MHz to 5240 MHz				
	5260 MHz to 5320 MHz				
	5500 MHz to 5720 MHz				
	5 745 MHz to 5 825 MHz				
Support Standards:	IEEE 802.11a/n/ac/ax				
TPC Function:	Not Support				
DFS Operational mode:	Slave without radar Interference detection function				
Type of Modulation:	IEEE 802.11a/n: OFDM (64QAM, 16QAM, QPSK, BPSK)				
	IEEE 802.11ac: OFDM (256QAM, 64QAM, 16QAM, QPSK, BPSK)				
	IEEE 802.11ax:				
	☒ OFDM (1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK) ☒ OFDMA (1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK)				
Channel Spacing:	IEEE 802.11a/n-HT20/ac-VHT20/ax-HE20: 20 MHz				
	IEEE 802.11n-HT40/ac-VHT40/ax-HE40: 40 MHz				
	IEEE 802.11ac-VHT80/ax-HE80: 80 MHz				
Data Rate:	IEEE 802.11a: Up to 54 Mbps				
	IEEE 802.11n: Up to MCS15				
	IEEE 802.11ac-VHT20: Up to MCS8				
	IEEE 802.11ac-VHT40/VHT80: Up to MCS9				
	IEEE 802.11ax-HE20/HE40/HE80: Up to MCS11				
Number of Channels:	5150 MHz to 5350 MHz:				
	8 for 802.11a/n-HT20/ac-VHT20/ax-HE20				
	4 for 802.11n-HT40/ac-VHT40/ax-HE40				
	2 for 802.11ac-VHT80/ax-HE80				
	5470 MHz to 5725 MHz:				
	12 for 802.11a/n-HT20/ac-VHT20/ax-HE20				
	6 for 802.11n-HT40/ac-VHT40/ax-HE40				
	3 for 802.11ac-VHT80/ax-HE80				
	5725 MHz to 5850 MHz:				
	5 for IEEE 802.11a/n-HT20/ac-VHT20/ax-HE20				
	2 for IEEE 802.11n-HT40/ac-VHT40/ax-HE40				
	1 for IEEE 802.11ac-VHT80/ax-HE80				
Antenna Type: (Provided by the customer)	Antenna 5 (Chain 0)	PIFA Antenna			
	Antenna 7 (Chain 1)	PIFA Antenna			
Antenna Gain (dBi): (Provided by the customer)	Antenna	U-NII-1	U-NII-2A	U-NII-2C	U-NII-3
	Antenna 5 (Chain 0)	-3.78	-2.17	-0.77	-1.07
	Antenna 7 (Chain 1)	-1.47	-1.47	-1.39	-0.73
Maximum conducted output power (dBm):	Mode	U-NII-1	U-NII-2A	U-NII-2C	U-NII-3
	IEEE 802.11a:	17.84	17.75	17.89	17.7
	IEEE 802.11n-HT20:	17.7	17.71	17.55	17.35
	IEEE 802.11n-HT40:	17.24	17.16	17.75	17.16
	IEEE 802.11ac-VHT20	17.45	17.61	17.55	17.2
	IEEE 802.11ac-VHT40	17.29	17.41	17.44	16.63
	IEEE 802.11ac-VHT80:	16.48	16.91	17.24	16.75
	IEEE 802.11ax-HE20:	16.54	16.62	16.57	16.42
	IEEE 802.11ax-HE40:	16.58	16.5	16.71	16.09
	IEEE 802.11ax-HE80:	16.22	16.32	16.43	15.92
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	FCC ID	Supplied by
Notebook	DELL	Latitude 3400	16238087894	N/A	UnionTrust
Mouse	DELL	MS111	CN-01D3V-738	N/A	UnionTrust
ROG Rapture Tri-band Gaming Router	ASUS	GT-AXE11000	M3IAJF201746	MSQ-RTAXJF 00	UnionTrust

2) Support Cable

Cable No.	Description	Connector	Length	Supplied by
1	Antenna Cable	SMA	0.3 Meter	Applicant

1.6 TEST LOCATION

Shenzhen UnionTrust Quality and Technology Co., Ltd.

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

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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-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	± 6.4 × 10 ⁻⁸

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12	Transmission Time	$\pm 0.19 \%$
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2. TEST SUMMARY

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 15.407(a)(1) (2)	N/A	PASS
26 dB emission bandwidth	FCC 47 CFR Part 15 Subpart E Section 15.407 (a)(2)(5)	KDB 789033 D02 v02r01 Section C.1	PASS
6 dB bandwidth	FCC 47 CFR Part 15 Subpart E Section 15.407 (e)	KDB 789033 D02 v02r01 Section C.2	PASS
Occupied Bandwidth	N/A	KDB 789033 D02 v02r01 Section II.D	None; for reporting purposes only.
Maximum conducted output power	FCC 47 CFR Part 15 Subpart E Section 15.407 (a)(1)(2)(3)	KDB 789033 D02 v02r01 Section E.3.a (Method PM)	PASS
Peak Power Spectral Density	FCC 47 CFR Part 15 Subpart E Section 15.407 (a)(1)(2)(3)	KDB 789033 D02 v02r01 Section F	PASS
Radiated Emissions and Band Edge Measurement	FCC 47 CFR Part 15 Subpart E Section 15.407 (b)(1)(2)(3)(4)(6) FCC 47 CFR Part 15 Subpart C Section 15.209/205	KDB 789033 D02 v02r01 Section G.3, G.4, G.5, and G.6	PASS
Dynamic Frequency Selection	FCC 47 CFR Part 15 Subpart E Section 15.407 (h)	KDB 905462 D03 Client Without DFS New Rules v01r02	PASS
AC Power Line Conducted Emission	FCC 47 CFR Part 15 Subpart E Section 15.407 (b)(6) FCC 47 CFR Part 15 Subpart C Section 15.207	ANSI C63.10-2020, Section 6.2.	PASS
Duty Cycle	N/A	KDB 789033 D02 v02r01 Section II.B.1	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.			

For Dynamic Frequency Selection

Test Case	Result
Channel Availability Check Time	N/A ^{Note 1}
U-NII Detection Bandwidth	N/A ^{Note 1}
Channel Closing Transmission Time	PASS
Channel Move Time	PASS
DFS Detection Threshold	N/A ^{Note 1}
Non- Occupancy Period	N/A ^{Note 1}
Note: 1) The EUT is slave, NA 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 SAC	ETS-LINDGREN	3M	Euroshiedpn-CT001270-1317	11-Nov-2023	10-Nov-2026
☒	Receiver	R&S	ESIB26	100114	24-Oct-2025	23-Oct-2026
☒	Spectrum analyzer	ROHDE & SCHWARZ	FSV40-N	101653	20-Mar-2026	19-Mar-2027
☒	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
☒	Preamplifier	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
☒	Band Rejection Filter (5150MHz~5880MHz)	Micro-Tronics	BRM50716	G186	24-Oct-2025	23-Oct-2026
☒	Multi device Controller	ETS-LINDGREN	7006-001	00160105	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 Spectrum Analyzer	KEYSIGHT	N9010A	MY51440197	20-Mar-2026	19-Mar-2027
☒	Shielding room	ETS-Lindgren	333	Euroshiedpn-TJ2343-S1608	20-Mar-2026	19-Mar-2029
☒	MXG-B RF Vector Signal Generator	KEYSIGHT	N5182B	MY61350133	20-Mar-2026	19-Mar-2027
☒	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	S202607209259-ZJF01/5	Shirley Wu
26 dB emission bandwidth	S202605259698-ZJB10/12	Erina Chen
Maximum conducted output power		
Peak Power Spectral Density		
6 dB bandwidth		
Dynamic Frequency Selection	S202606088878-ZJC02/4	Leo Li
Radiated Emissions and Band Edge Measurement (Radiated)		

4.2 TEST CHANNELS

Mode	Tx/Rx Frequency	Test RF Channel Lists		
		Lowest(L)	Middle(M)	Highest(H)
IEEE 802.11a IEEE 802.11n-HT20 IEEE 802.11ac-VHT20 IEEE 802.11ax-HE20	5150 - 5250 MHz	Channel 36	Channel 40	Channel 48
		5180 MHz	5200 MHz	5240 MHz
	5250 - 5350 MHz	Channel 52	Channel 60	Channel 64
		5260 MHz	5300 MHz	5320 MHz
	5470 - 5725 MHz	Channel 100	Channel 120	Channel 140/144
		5500 MHz	5600 MHz	5700 MHz/ 5720MHz
	5725 - 5850 MHz	Channel 149	Channel 157	Channel 165
		5745 MHz	5785 MHz	5825 MHz
IEEE 802.11n-HT40 IEEE 802.11ac-VHT40 IEEE 802.11ax-HE40	5150 - 5250 MHz	Channel 38	--	Channel 46
		5190 MHz	--	5230 MHz
	5250 - 5350 MHz	Channel 54	--	Channel 62
		5270 MHz	--	5310 MHz
	5470 - 5725 MHz	Channel 102	Channel 118	Channel 134/142
		5510 MHz	5590 MHz	5670 MHz/ 5710MHz
	5725 - 5850 MHz	Channel 151	--	Channel 159
		5755 MHz	--	5795 MHz
IEEE 802.11ac-VHT80 IEEE 802.11ax-HE80	5150 - 5250 MHz	--	Channel 42	--
		--	5210 MHz	--
	5250 - 5350 MHz	--	Channel 58	--
		--	5290 MHz	--
	5470 - 5725 MHz	Channel 106	Channel 122	Channel 138

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Mode	Tx/Rx Frequency	Test RF Channel Lists		
		Lowest(L)	Middle(M)	Highest(H)
		5530 MHz	5610 MHz	5690 MHz
	5725 - 5850 MHz	--	Channel 155	--
		--	5775 MHz	--

4.3 EUT TEST STATUS

Mode	Tx/Rx Function	Description
IEEE 802.11a	1Tx/1Rx	1. Keep the EUT in continuously transmitting or receiving with modulation and data rates test single. 2. Keep the equipment in normal operation and achieve a certain throughput.
IEEE 802.11n	2Tx/2Rx	
IEEE 802.11ac		
IEEE 802.11ax		

Power Setting (Provided by the customer)				
Test Mode	RU & Index	Freq. [MHz]	Set Power	
			Ant 5 (Chain 0)	Ant 7 (Chain 1)
11A	---	All	17	17
11N20MIMO	---	All	14.5	14.5
11N40MIMO	---	All	14	14
11AC20MIMO	---	All	14	14
11AC40MIMO	---	All	14	14
11AC80MIMO	---	All	14	14
11AX20MIMO	FULL/SU	All	13	13
11AX20MIMO	106RU	All	10	10
11AX20MIMO	52RU	All	7	7
11AX20MIMO	26RU	All	4	4
11AX40MIMO	FULL/SU	All	13	13
11AX80MIMO	FULL/SU	All	13	13

Test Software (Provided by the customer)
EngineerMode(*##3646633##*)

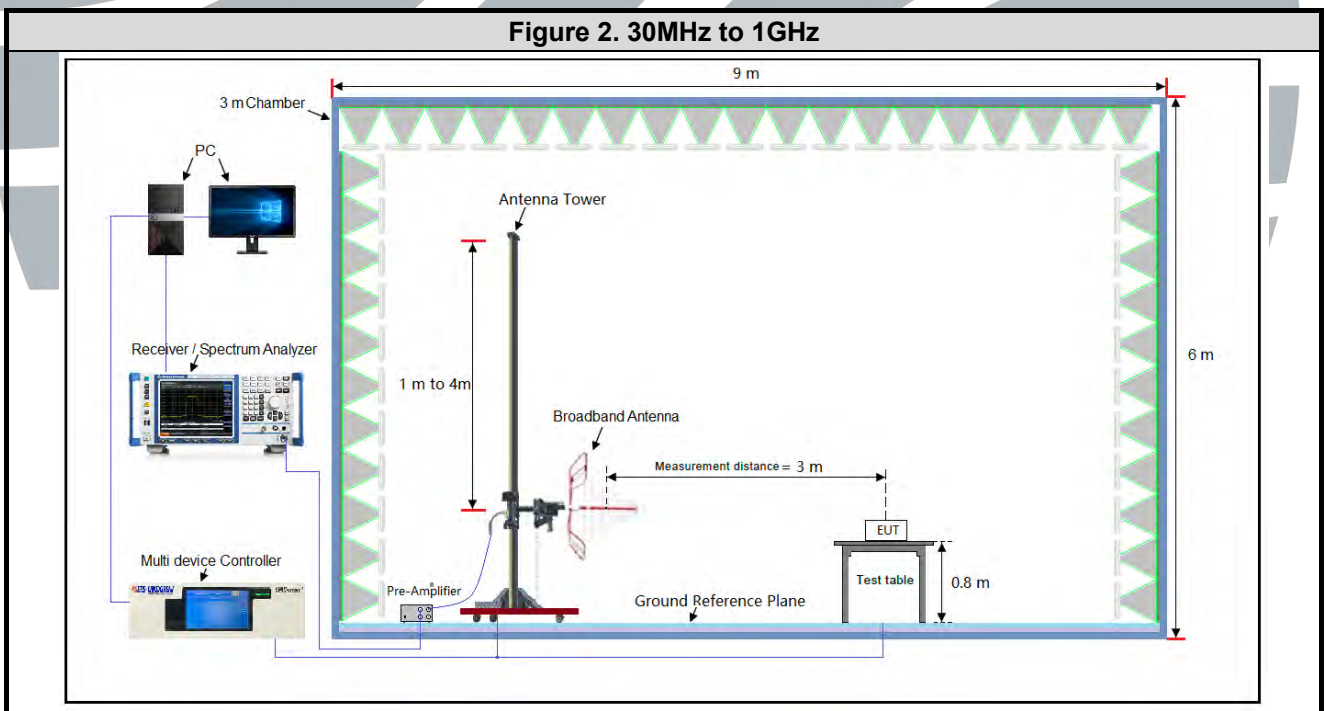
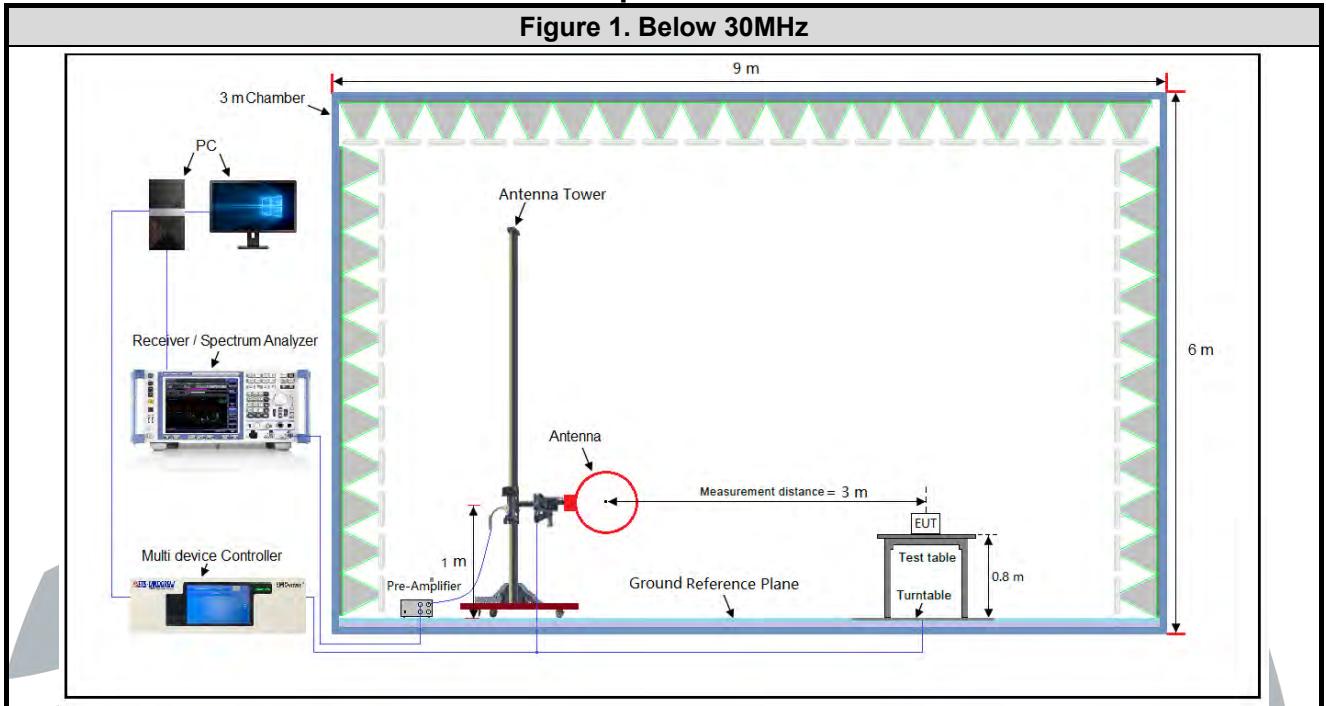
4.4 PRE-SCAN

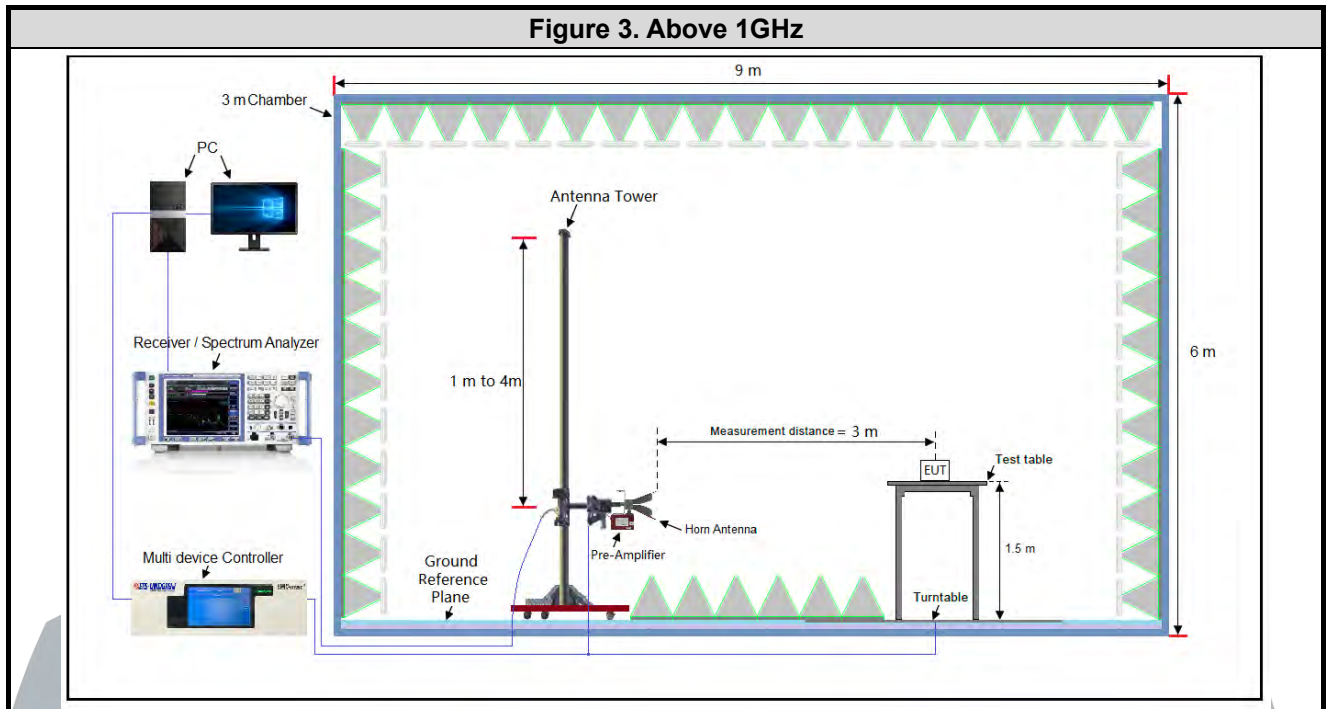
Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations and data rate. Following data rate was (were) selected for the final test as listed below

Mode	Worst-case data rates
IEEE 802.11a	6 Mbps
IEEE 802.11n-HT20	MCS0
IEEE 802.11n-HT40	MCS0
IEEE 802.11ac-VHT20	Covered by 802.11n HT20
IEEE 802.11ac-VHT40	Covered by 802.11n HT40
IEEE 802.11ac-VHT80	MCS0
IEEE 802.11ax-HE20	MCS0
IEEE 802.11ax-HE40	MCS0
IEEE 802.11ax-HE80	MCS0

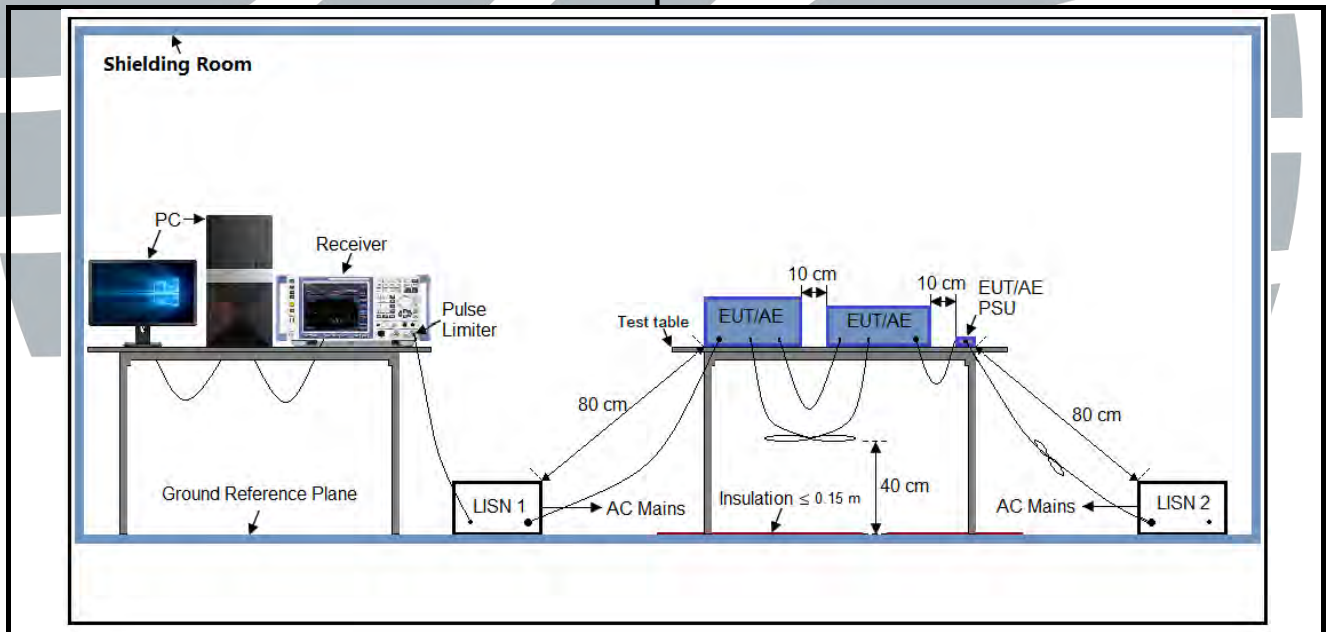
4.5 TEST SETUP

4.5.1 For Radiated Emissions test setup

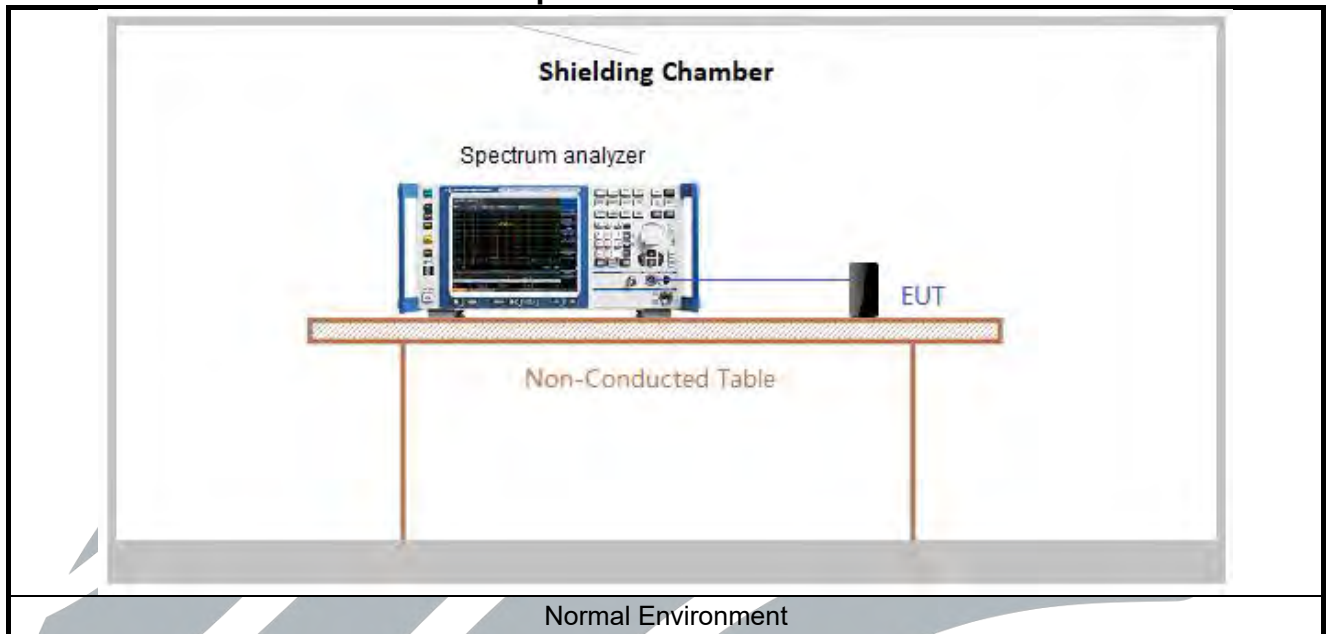




4.5.2 For Conducted Emissions test setup



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 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 SU mode was determined to be the worst case.

For band edge and radiated spurious emissions, 802.11ac VT20/40 Covered by 802.11n HT20/40.

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)
11A	6 Mbps	1	1	1	100	0.00	0.01
11N20MIMO	MCS 0	1	1	1	100	0.00	0.01
11N40MIMO	MCS 0	1	1	1	100	0.00	0.01
11AC20MIMO	MCS 0	1	1	1	100	0.00	0.01
11AC40MIMO	MCS 0	1	1	1	100	0.00	0.01
11AC80MIMO	MCS 0	1	1	1	100	0.00	0.01
11AX20MIMO_SU	MCS 0	1	1	1	100	0.00	0.01
11AX40MIMO_SU	MCS 0	1	1	1	100	0.00	0.01
11AX80MIMO_SU	MCS 0	1	1	1	100	0.00	0.01
11AX80MIMO_SU	MCS 0	1	1	1	100	0.00	0.01
11AX20MIMO_26RU	MCS 0	5.05	5.10	0.9902	99.02	0.00	0.01
11AX20MIMO_52RU	MCS 0	2.56	2.60	0.9846	98.46	0.00	0.01
11AX20MIMO_106RU	MCS 0	1.24	1.28	0.9688	96.88	0.14	0.81

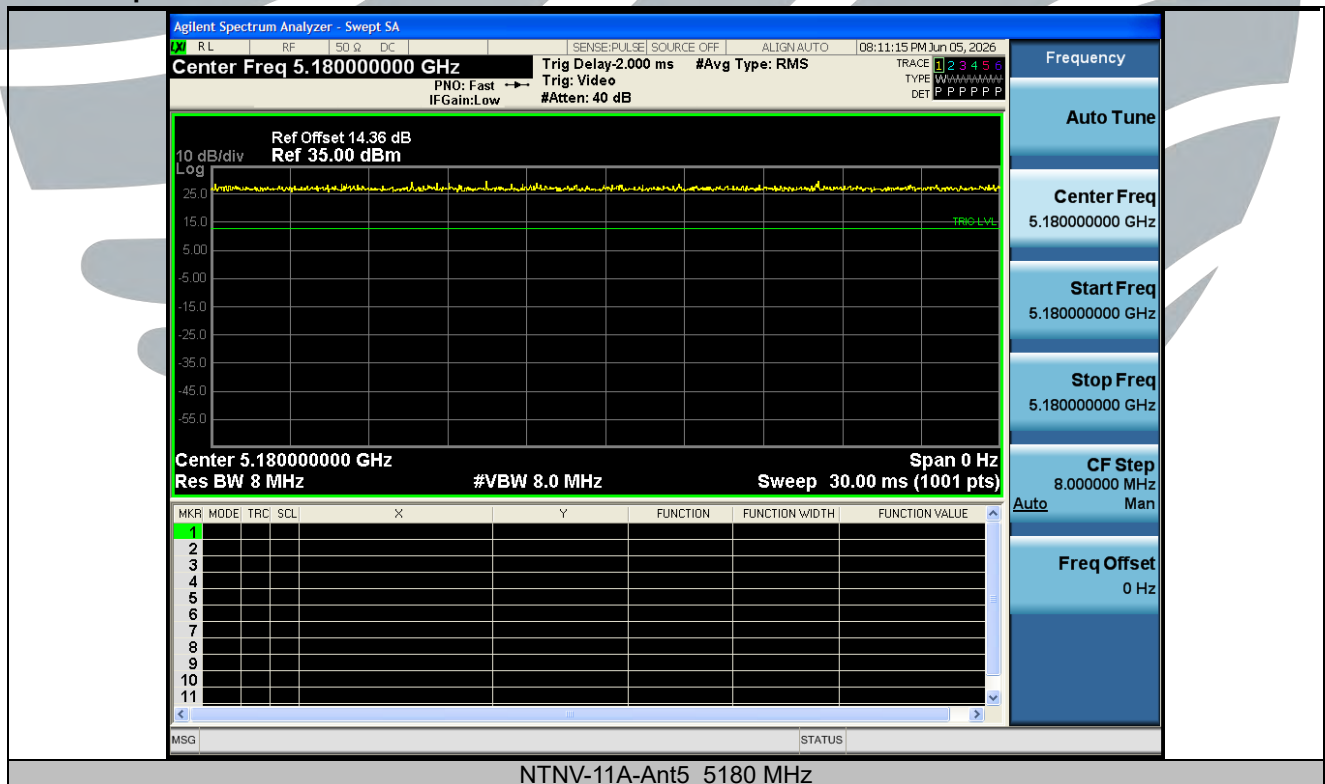
Note:

- 1). There is same duty cycle factor on 1TX and 2TX
- 2). There is same duty cycle factor on Chain 0(Ant 5) and Chain 1(Ant 7)
- 3). There is same duty cycle factor on U-NII-1, U-NII-2A, U-NII-2C and U-NII-3

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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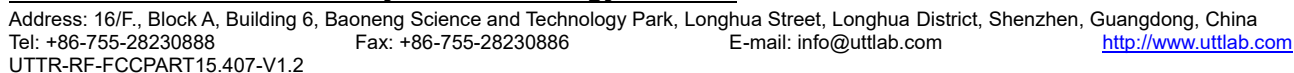
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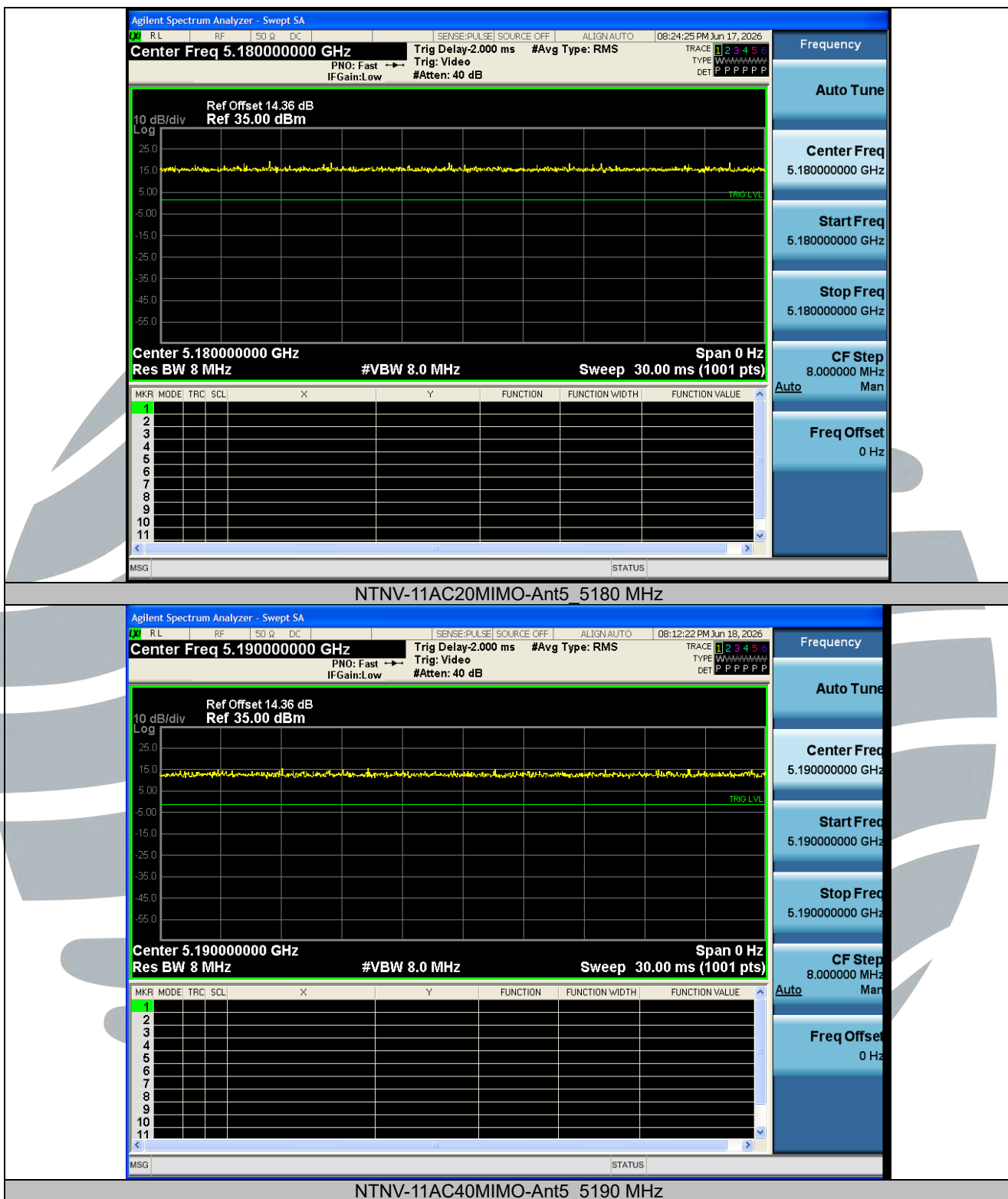
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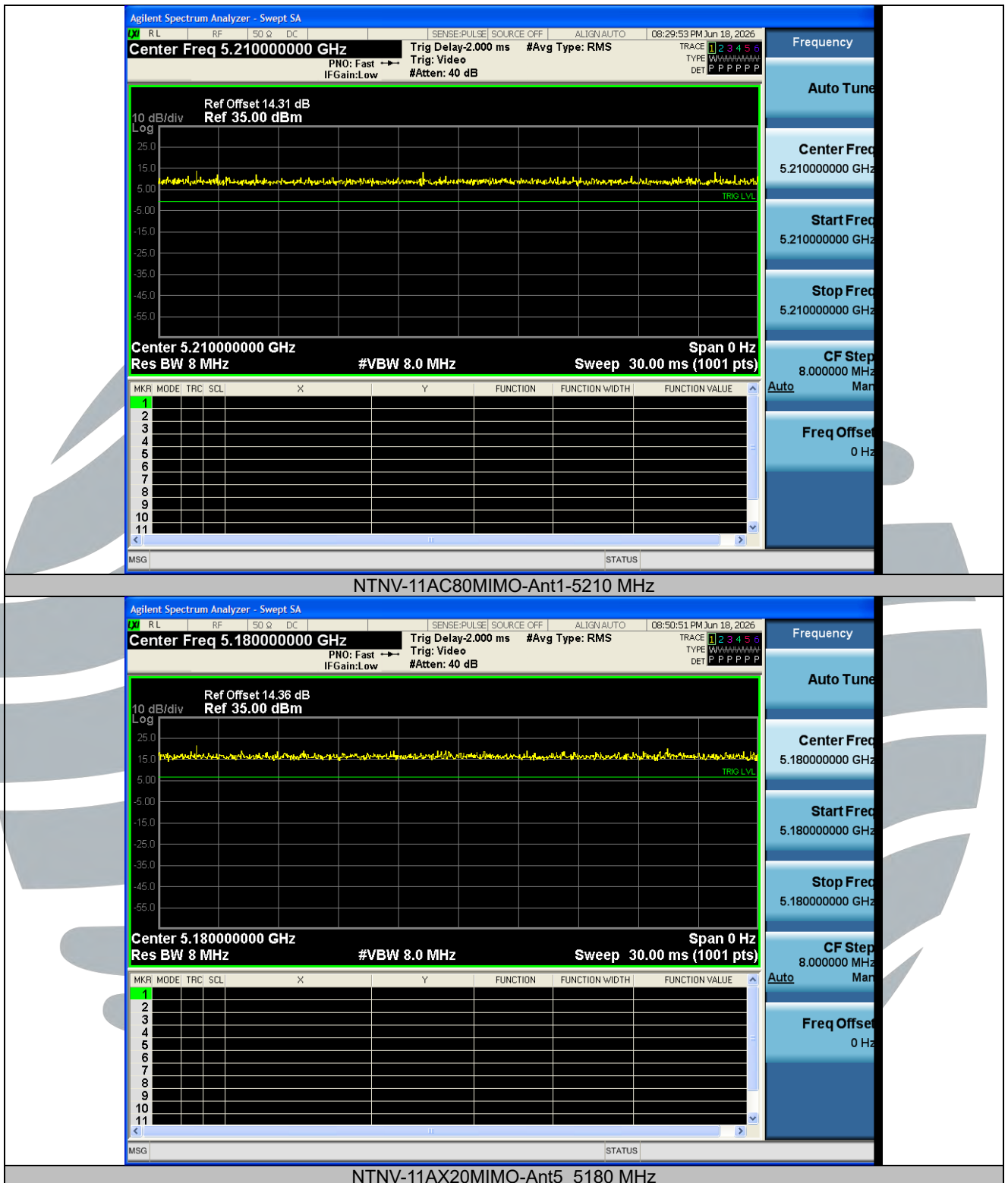
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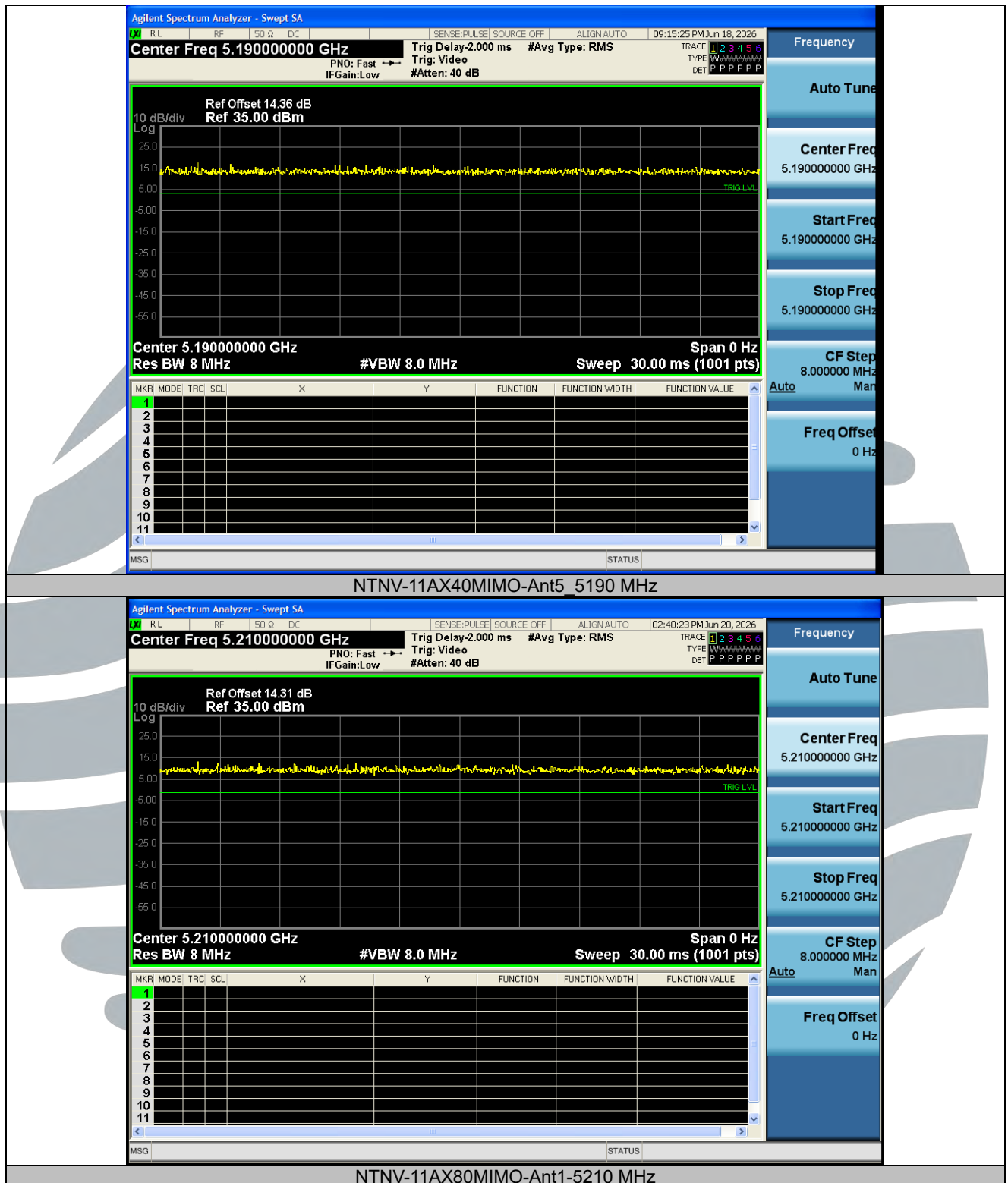
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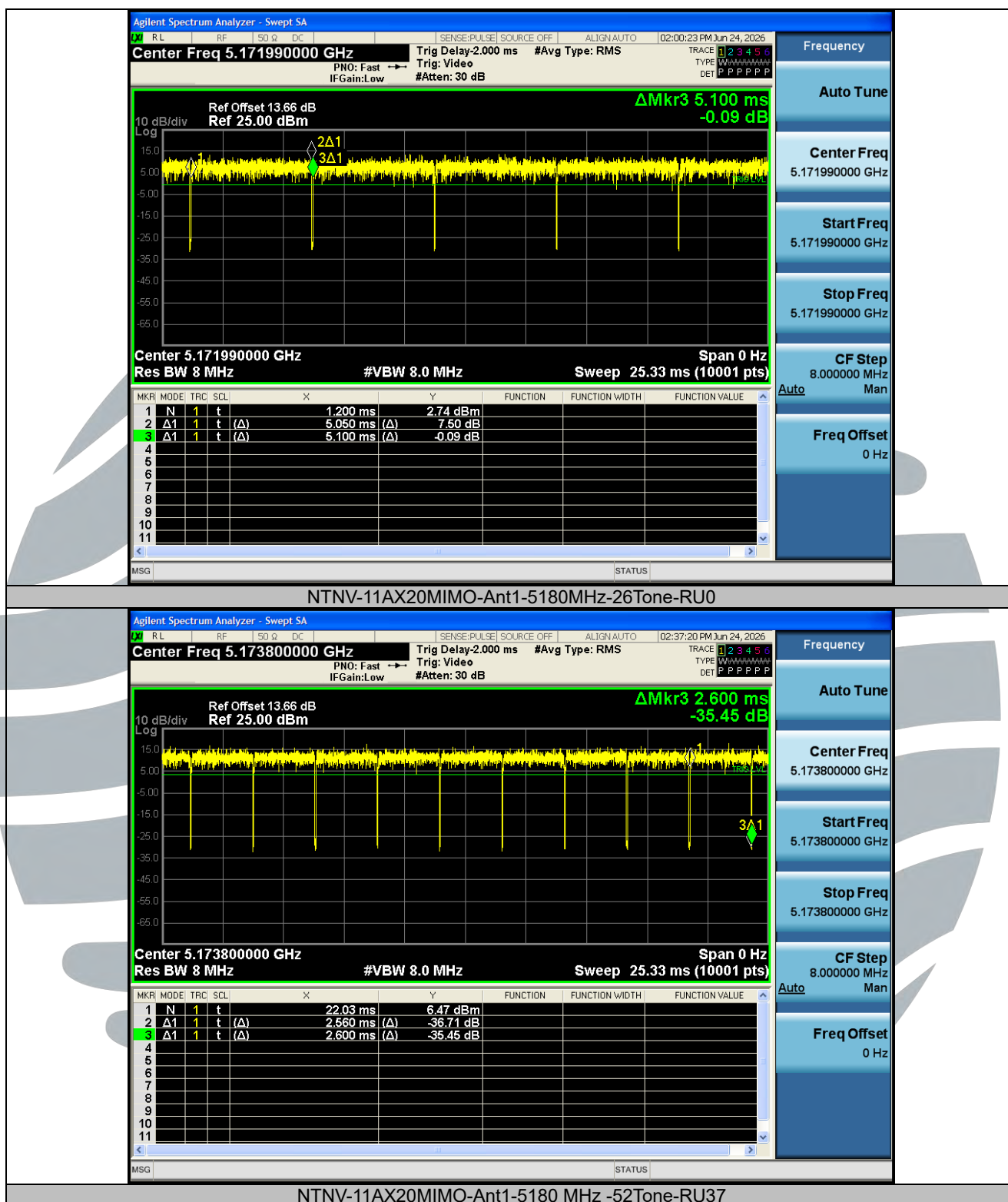
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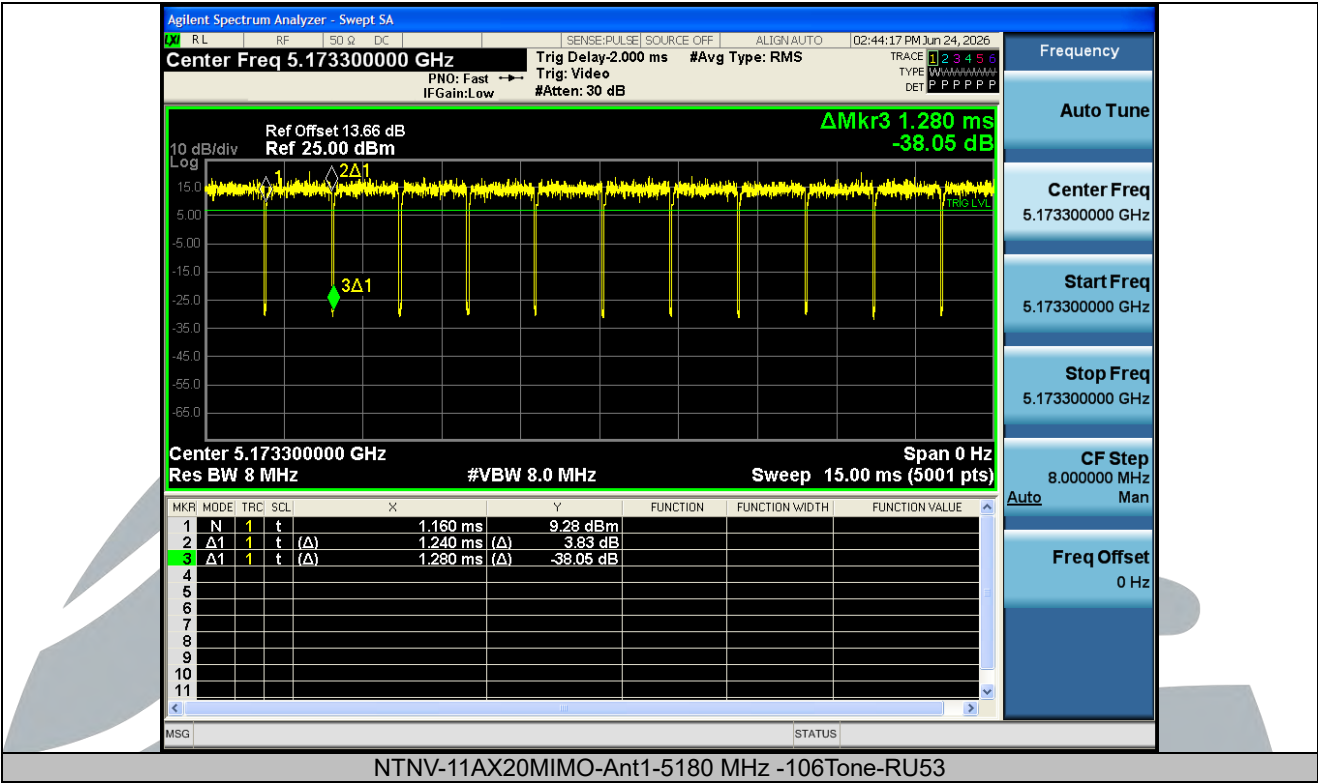
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NTNV-11AX20MIMO-Ant1-5180 MHz -106Tone-RU53

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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 789033 D02 General UNII Test Procedures New Rules v02r01	Guidelines for compliance testing of unlicensed national information infrastructure (U-NII) device part 15, subpart E
5	KDB 905462 D06 802.11 Channel Plans New Rules v02	Operation in U-NII bands -802.11 channel PLAN(§15.407)
6	KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02	Compliance measurement procedures for Unlicensed –National Information Infrastructure devices operates in the frequency bands 5250 MHz to 5350 MHz and 5470 MHz to 5725 MHz bands incorporating dynamic frequency selection
7	KDB 905462 D03 Client Without DFS New Rules v01r02	U-NII client devices without radar detection capability

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. 15.407(a)(1) (2) requirement: The conducted output power limit specified in paragraph (a) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (a) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power and the peak power spectral density shall be reduced by the 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 2.11dBi (See section 5.6).

5.326 DB BANDWIDTH

Test Requirement: FCC 47 CFR Part 15 Subpart E Section 15.407 (a) (2)(5)

Test Method: KDB 789033 D02 v02r01 Section C.1

Limit: None; for reporting purposes only.

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 Mode: Tx mode

Test Results:

Test Mode	RU&Index	Frequency [MHz]	26db EBW [MHz]	
			Ant 5	Ant 7
11A	--	5180	29.78	28.70
11A	--	5200	32.76	32.65
11A	--	5240	22.14	21.22
11A	--	5260	21.63	20.33
11A	--	5280	22.13	21.78
11A	--	5320	30.10	26.68
11A	--	5500	29.43	21.02
11A	--	5600	21.32	20.58
11A	--	5700	28.68	27.94
11A	--	5720	21.36	21.84
11N20MIMO	--	5180	31.39	23.77
11N20MIMO	--	5200	33.16	32.82
11N20MIMO	--	5240	22.60	22.04
11N20MIMO	--	5260	22.58	22.26
11N20MIMO	--	5280	22.71	22.57
11N20MIMO	--	5320	31.00	31.03
11N20MIMO	--	5500	32.05	30.50
11N20MIMO	--	5600	23.47	22.04
11N20MIMO	--	5700	29.82	29.61
11N20MIMO	--	5720	22.24	21.92
11N40MIMO	--	5190	51.58	48.77
11N40MIMO	--	5230	40.83	39.59
11N40MIMO	--	5270	40.50	39.55
11N40MIMO	--	5310	52.84	47.64
11N40MIMO	--	5510	56.83	44.69
11N40MIMO	--	5590	40.66	39.85
11N40MIMO	--	5670	63.51	47.26
11N40MIMO	--	5710	40.56	39.36
11AC80MIMO	--	5210	109.70	104.60
11AC80MIMO	--	5290	119.00	114.40
11AC80MIMO	--	5530	124.70	105.50
11AC80MIMO	--	5610	80.20	80.02
11AC80MIMO	--	5690	80.48	84.96

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Test Mode	RU&Index	Frequency [MHz]	26db EBW [MHz]	
			Ant 5	Ant 7
11AX20MIMO	SU	5180	22.78	22.33
11AX20MIMO	SU	5200	21.63	22.13
11AX20MIMO	SU	5240	21.89	22.17
11AX20MIMO	SU	5260	22.93	22.62
11AX20MIMO	SU	5280	22.92	22.15
11AX20MIMO	SU	5320	22.16	22.06
11AX20MIMO	SU	5500	22.75	21.53
11AX20MIMO	SU	5600	21.52	22.83
11AX20MIMO	SU	5700	23.11	22.75
11AX20MIMO	SU	5720	22.56	21.16
11AX40MIMO	SU	5190	39.54	39.38
11AX40MIMO	SU	5230	39.49	39.39
11AX40MIMO	SU	5270	39.56	39.47
11AX40MIMO	SU	5310	39.43	39.44
11AX40MIMO	SU	5510	39.51	39.45
11AX40MIMO	SU	5590	39.46	39.44
11AX40MIMO	SU	5670	39.34	39.45
11AX40MIMO	SU	5710	39.36	39.60
11AX80MIMO	SU	5210	80.44	80.06
11AX80MIMO	SU	5290	80.28	80.15
11AX80MIMO	SU	5530	80.48	80.36
11AX80MIMO	SU	5610	80.31	80.13
11AX80MIMO	SU	5690	80.32	80.16
11AX20MIMO	26ToneRU0	5180	19.91	18.96
11AX20MIMO	52ToneRU37	5180	20.59	20.16
11AX20MIMO	106ToneRU53	5180	21.22	20.13
11AX20MIMO	26ToneRU4	5200	17.91	17.57
11AX20MIMO	52ToneRU39	5200	18.53	18.02
11AX20MIMO	106ToneRU54	5200	20.89	19.78
11AX20MIMO	26ToneRU8	5240	20.17	19.96
11AX20MIMO	52ToneRU40	5240	20.95	19.98
11AX20MIMO	106ToneRU54	5240	21.13	20.44
11AX20MIMO	26ToneRU0	5260	20.28	19.82
11AX20MIMO	52ToneRU37	5260	20.22	19.69
11AX20MIMO	106ToneRU53	5260	20.25	20.61
11AX20MIMO	26ToneRU4	5280	17.62	18.11
11AX20MIMO	52ToneRU39	5280	18.08	18.16
11AX20MIMO	106ToneRU54	5280	20.69	20.17
11AX20MIMO	26ToneRU8	5320	19.98	19.89
11AX20MIMO	52ToneRU40	5320	21.01	20.24
11AX20MIMO	106ToneRU54	5320	21.14	20.39
11AX20MIMO	26ToneRU0	5500	20.59	19.90
11AX20MIMO	52ToneRU37	5500	20.58	19.92
11AX20MIMO	106ToneRU53	5500	20.90	20.75
11AX20MIMO	26ToneRU4	5600	17.75	18.00
11AX20MIMO	52ToneRU39	5600	18.32	18.01
11AX20MIMO	106ToneRU54	5600	20.85	20.23
11AX20MIMO	26ToneRU8	5700	20.47	20.21
11AX20MIMO	52ToneRU40	5700	20.55	19.90
11AX20MIMO	106ToneRU54	5700	20.84	20.58
11AX20MIMO	26ToneRU0	5720	20.16	20.24
11AX20MIMO	26ToneRU8	5720	20.48	20.04
11AX20MIMO	52ToneRU37	5720	20.32	19.92
11AX20MIMO	52ToneRU40	5720	20.68	20.52
11AX20MIMO	106ToneRU53	5720	20.40	20.20
11AX20MIMO	106ToneRU54	5720	20.68	20.44

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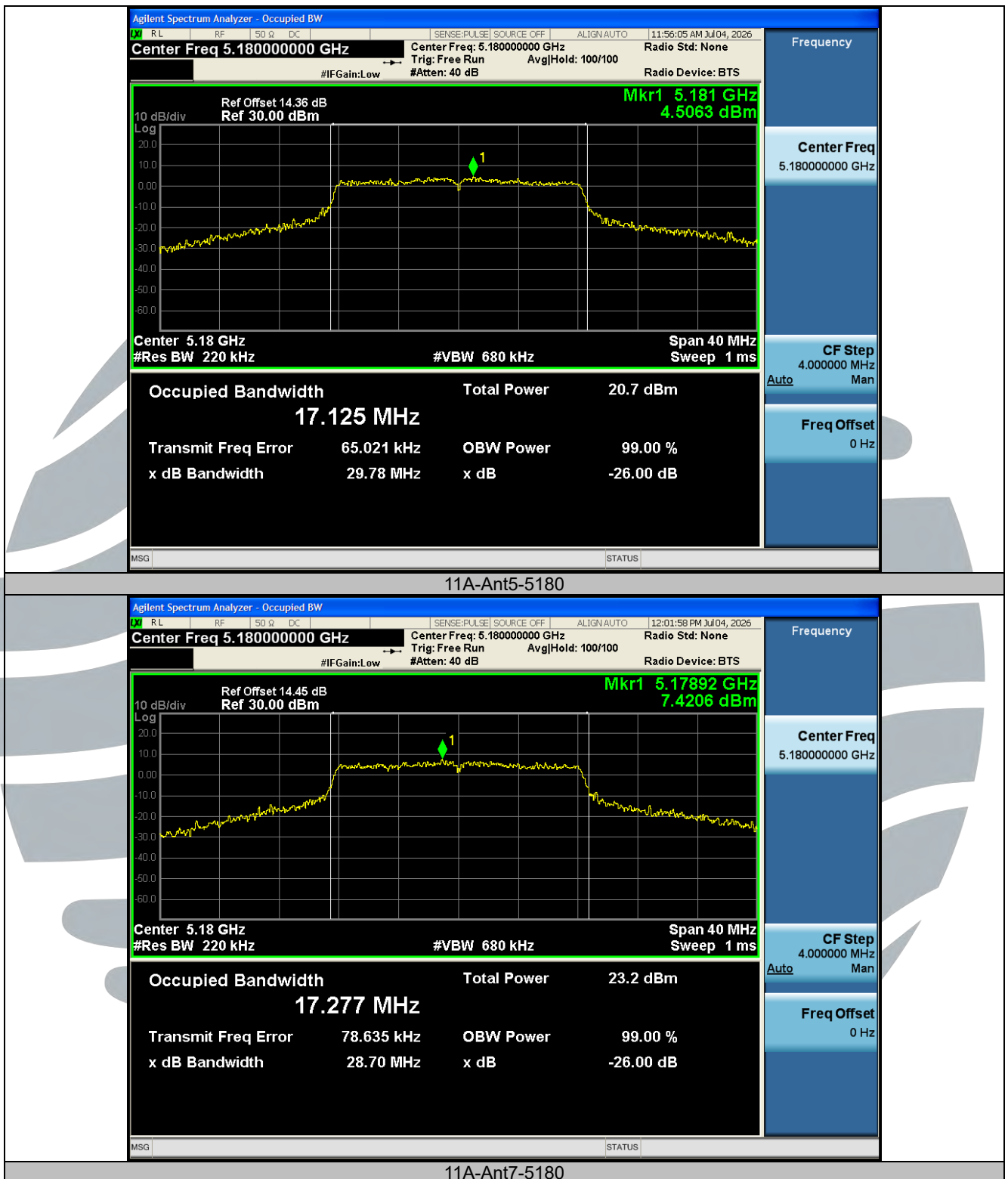
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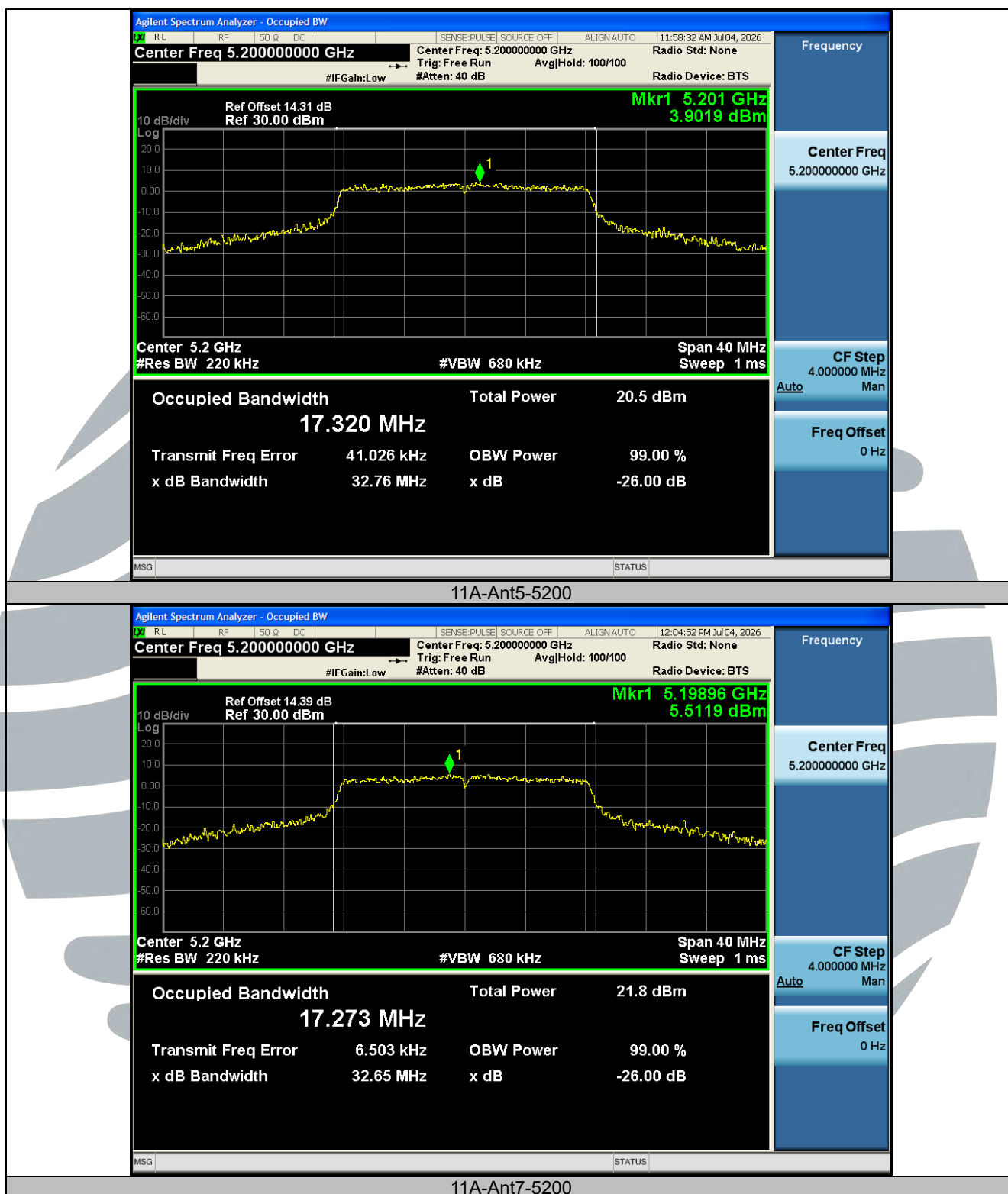
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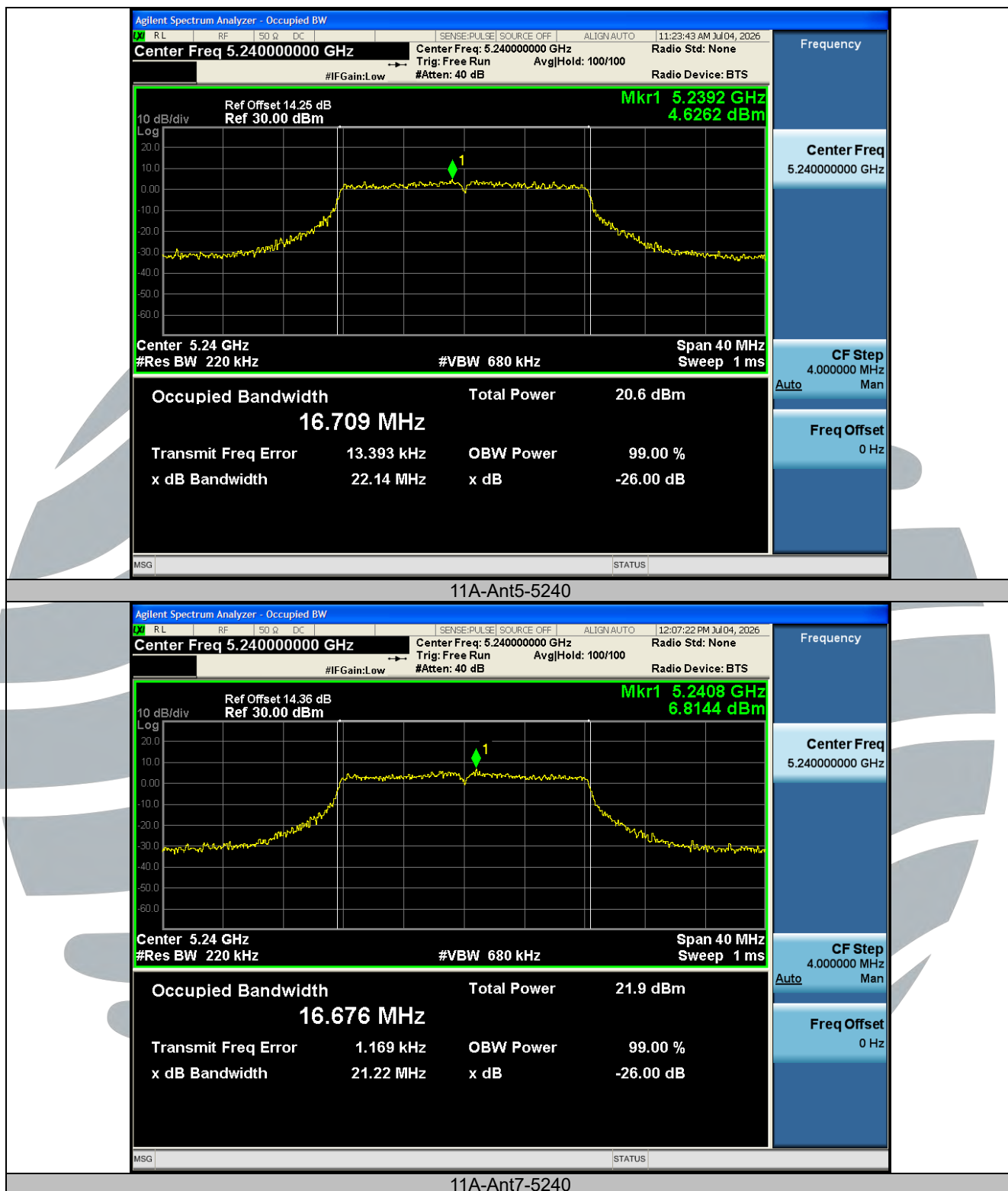
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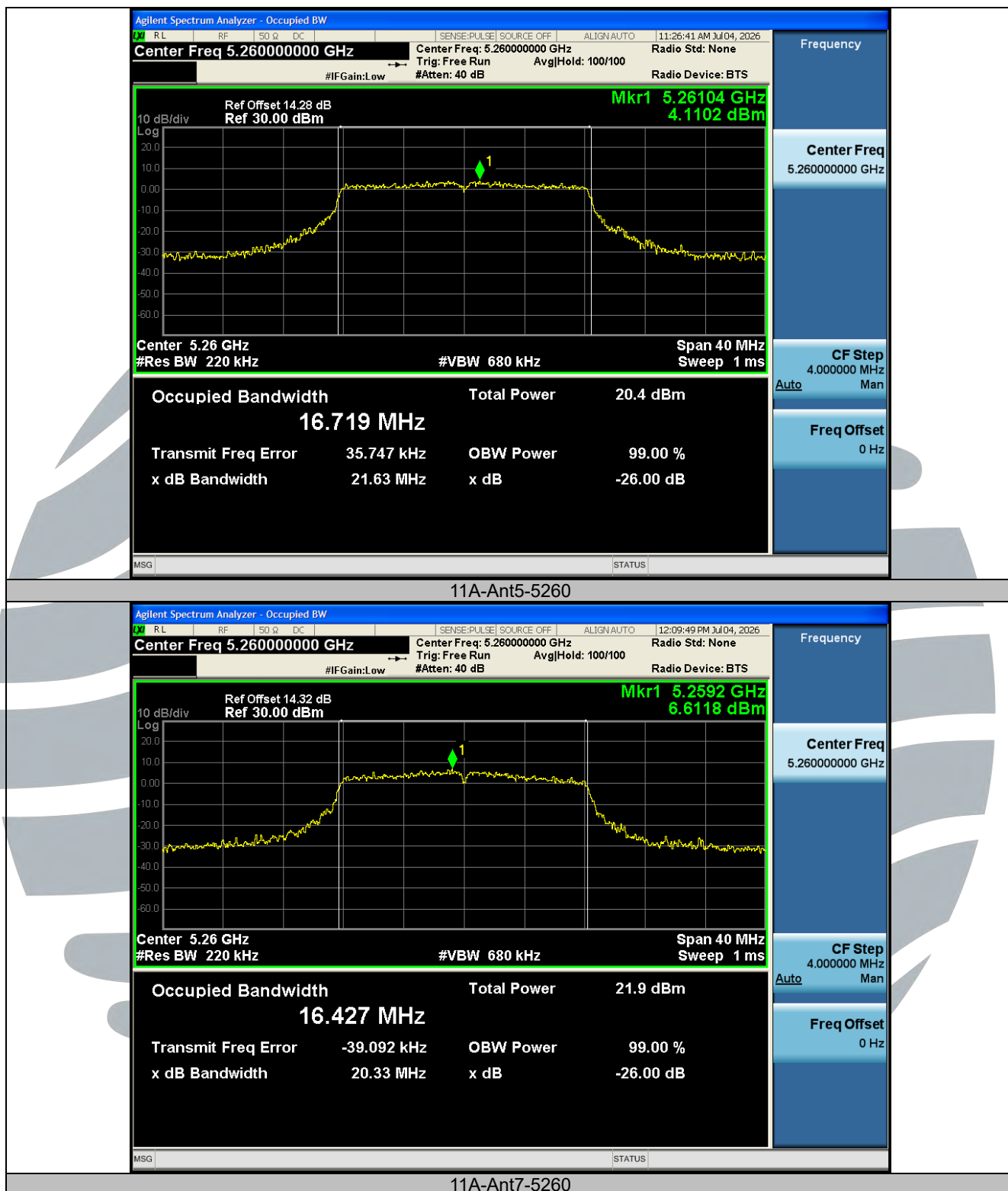
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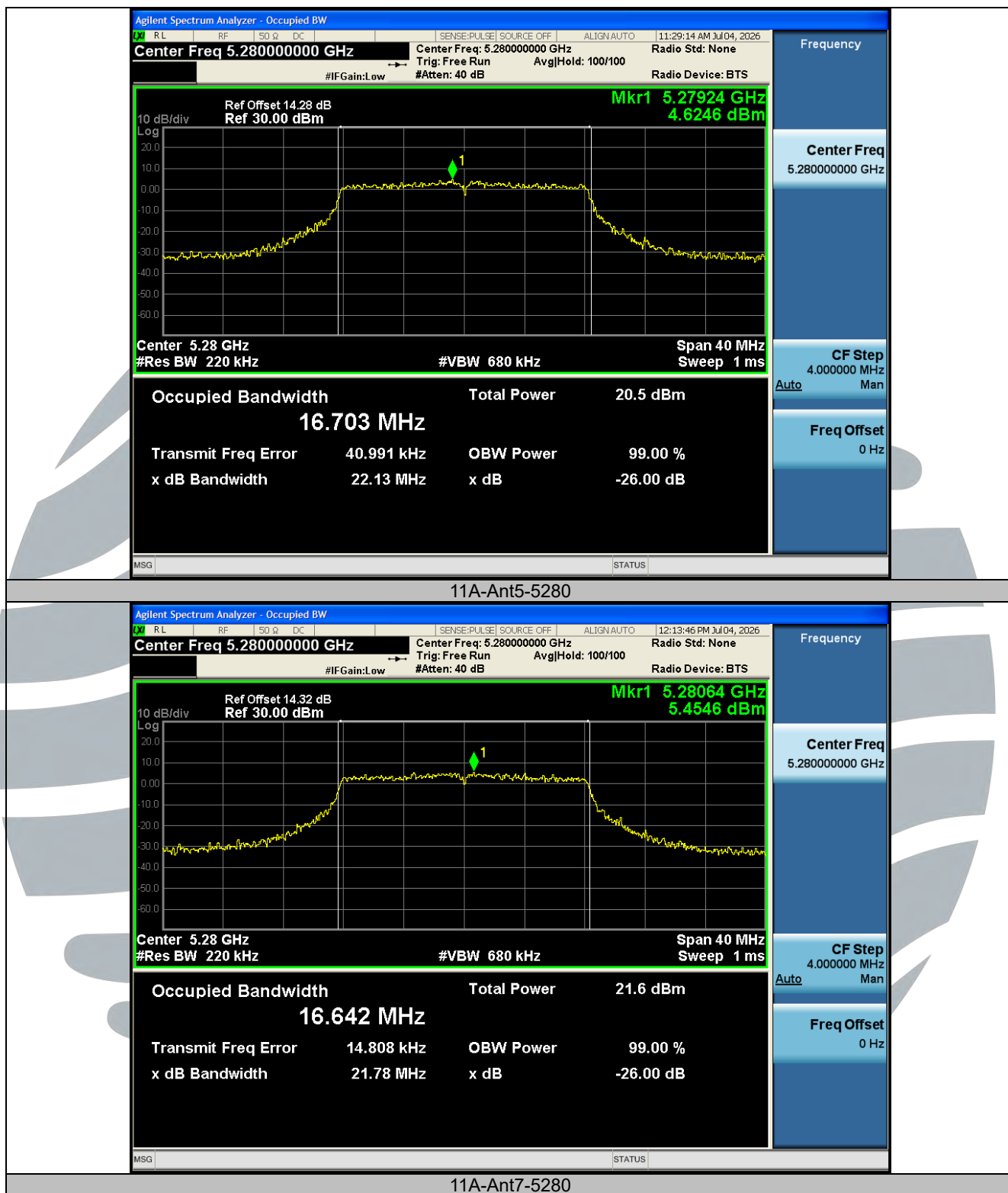
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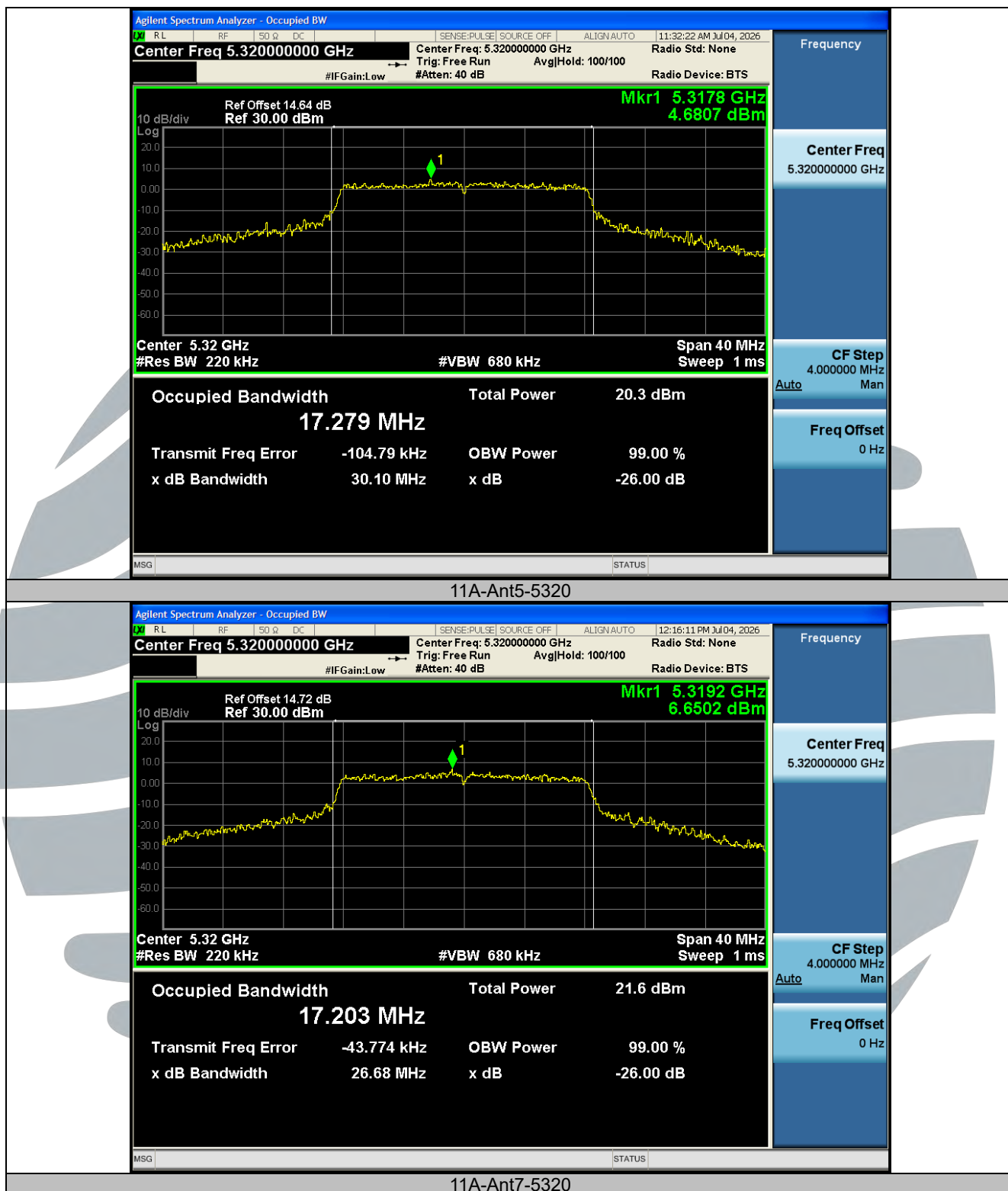
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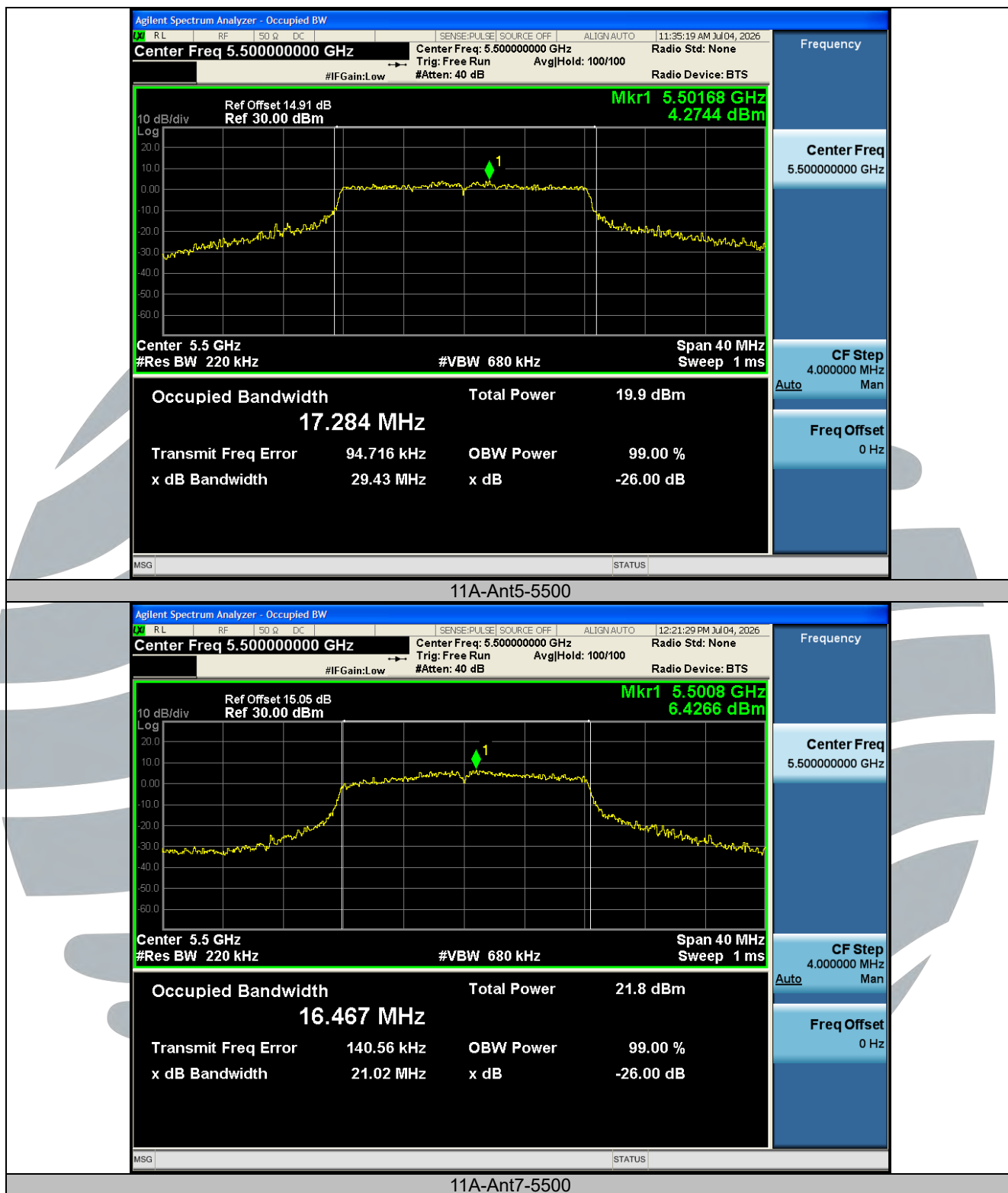
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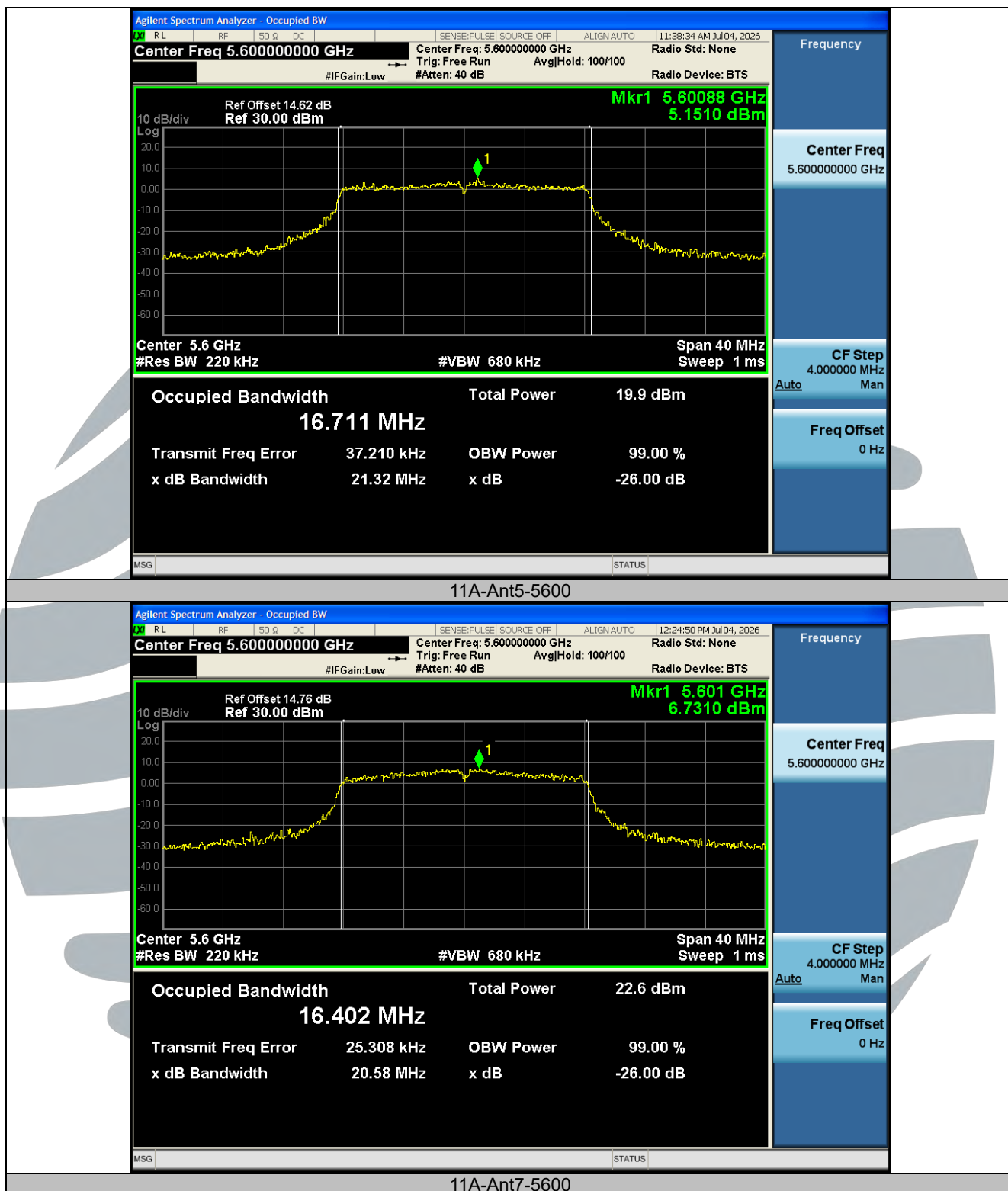
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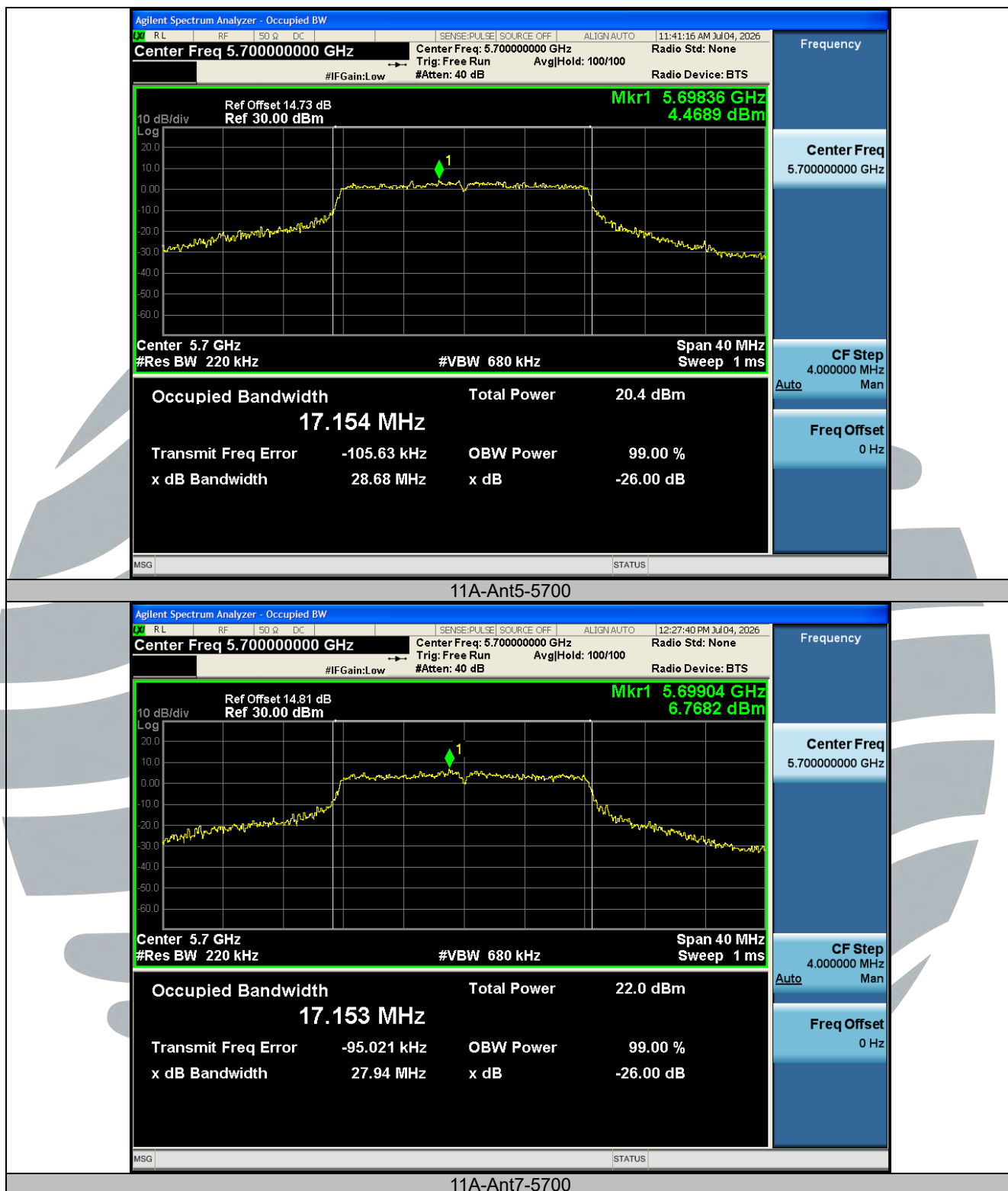
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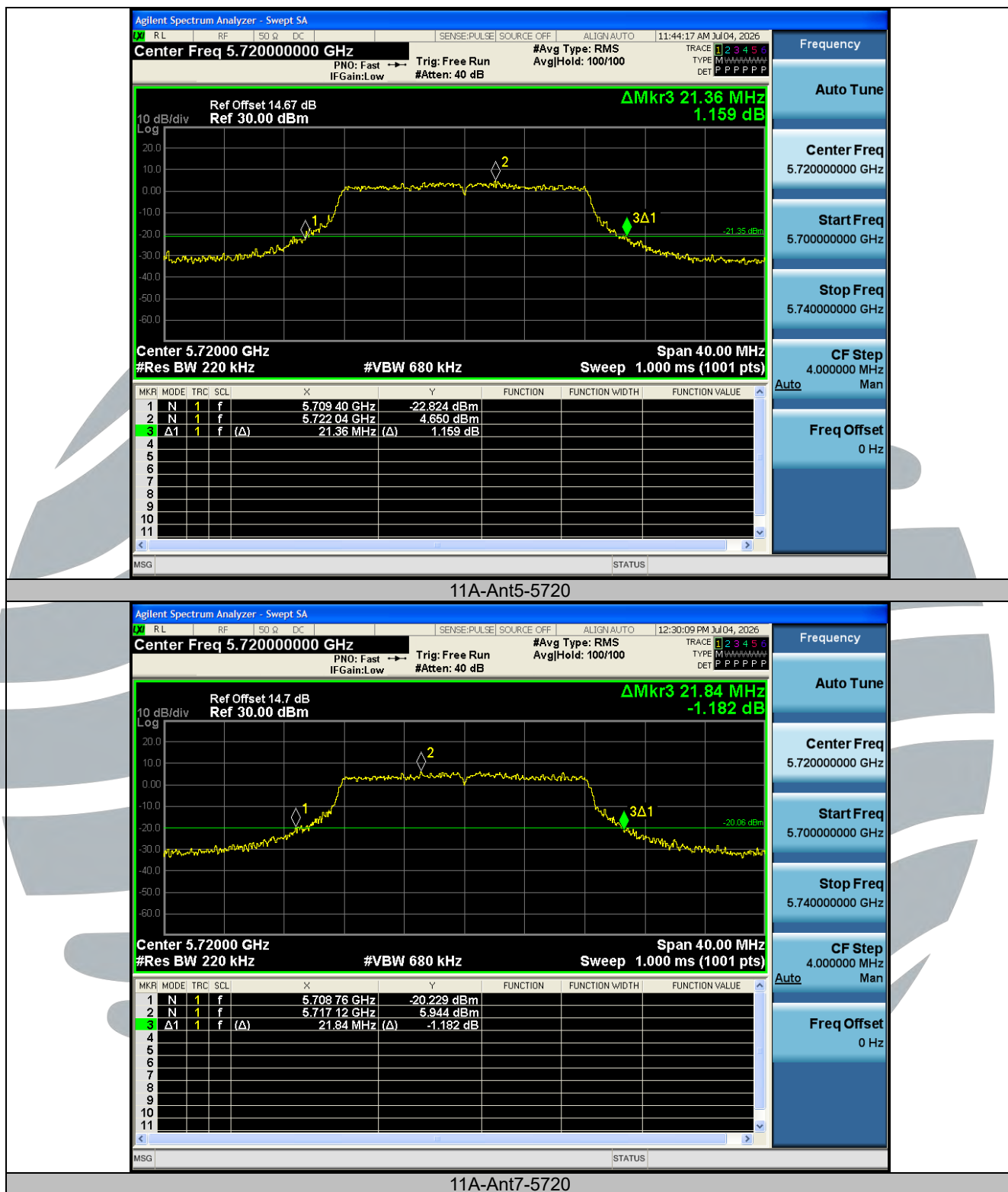
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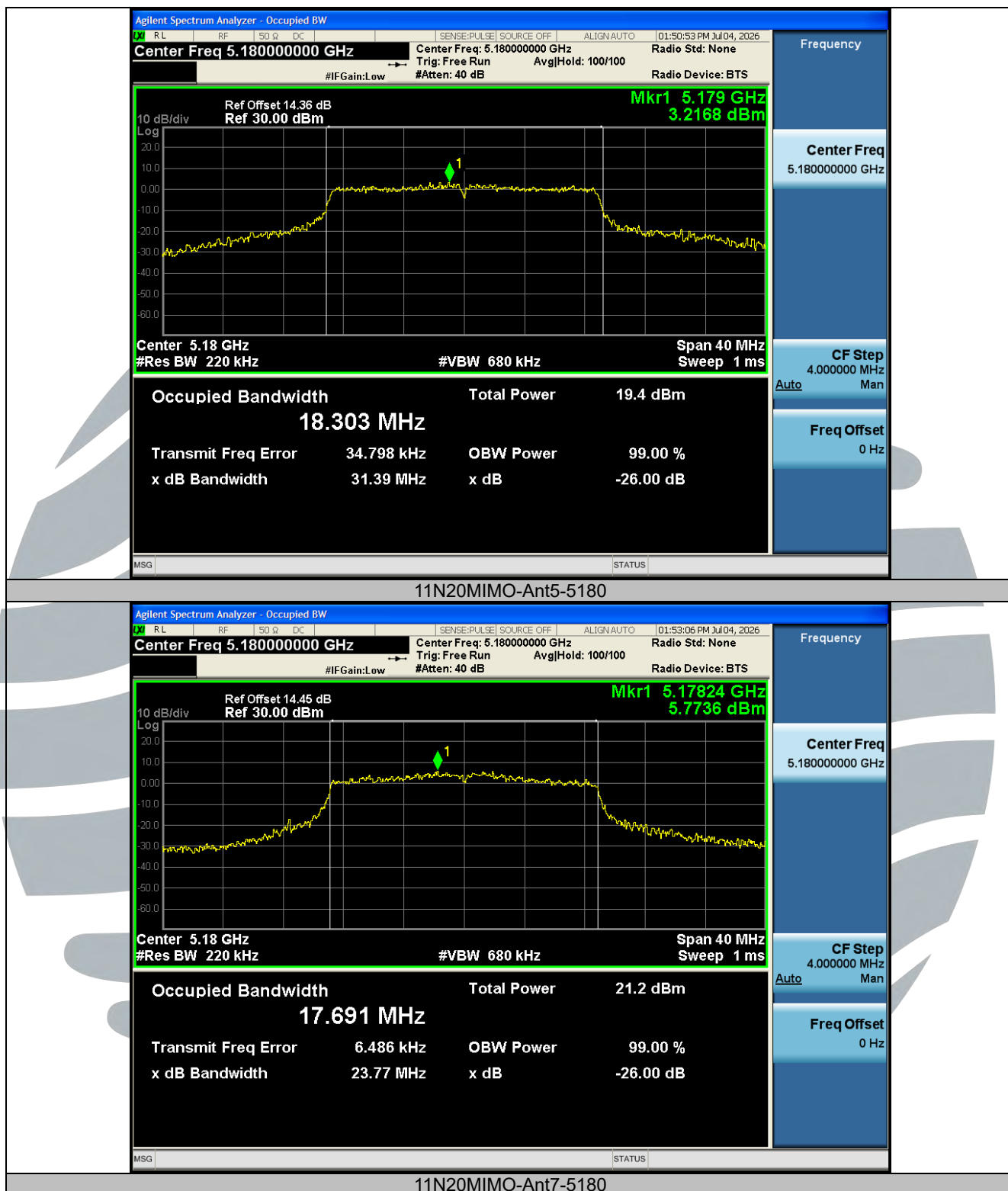
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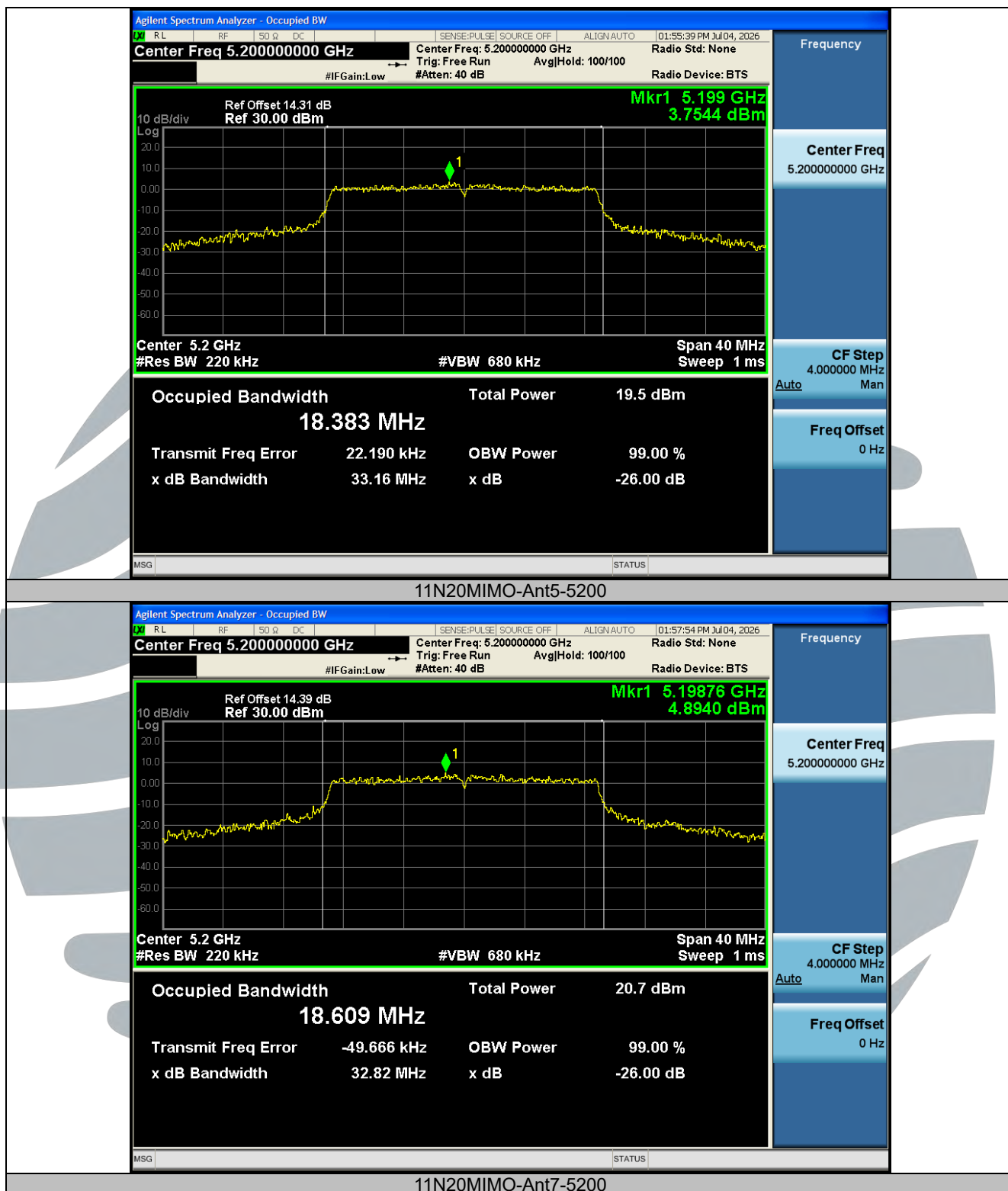
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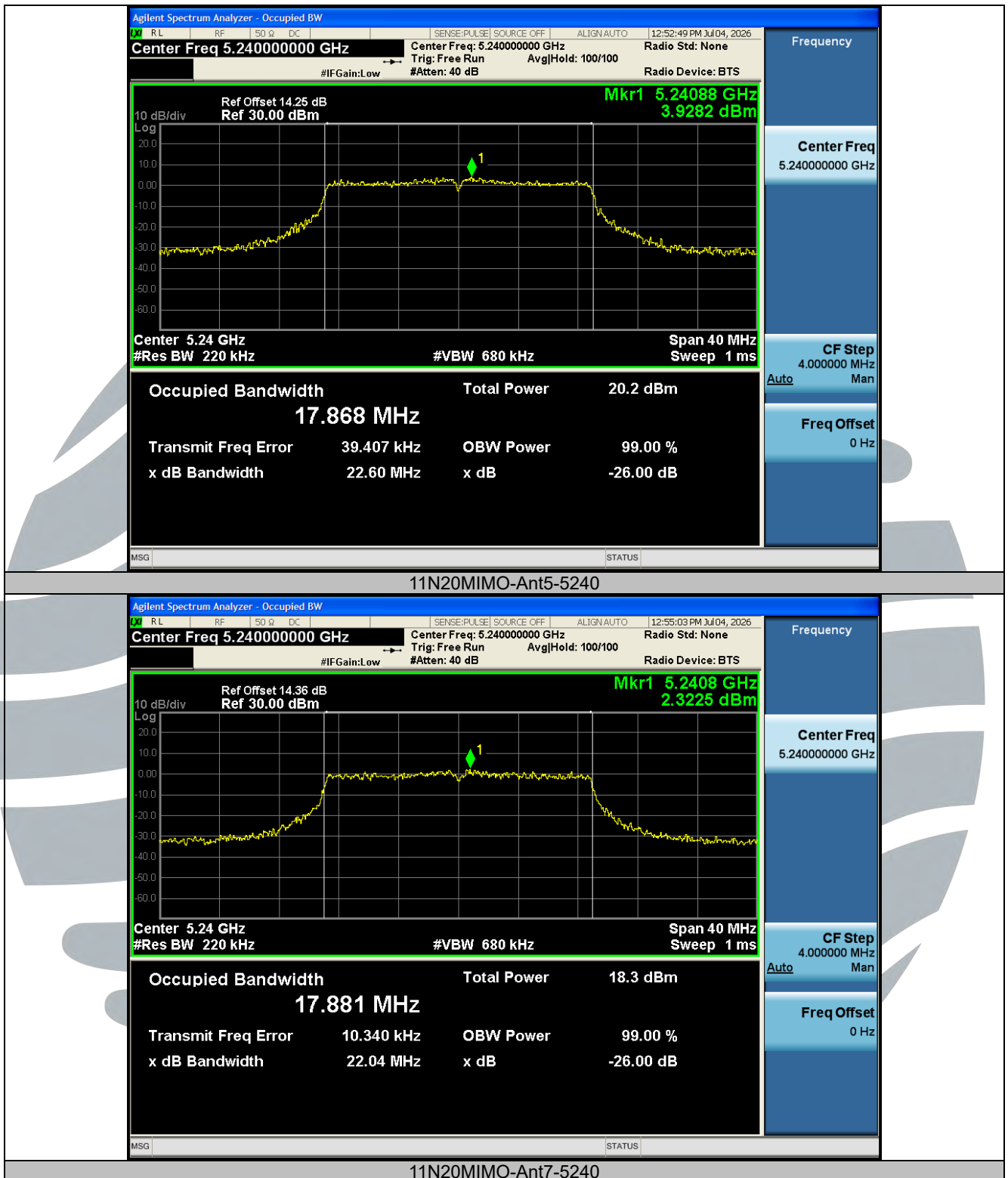
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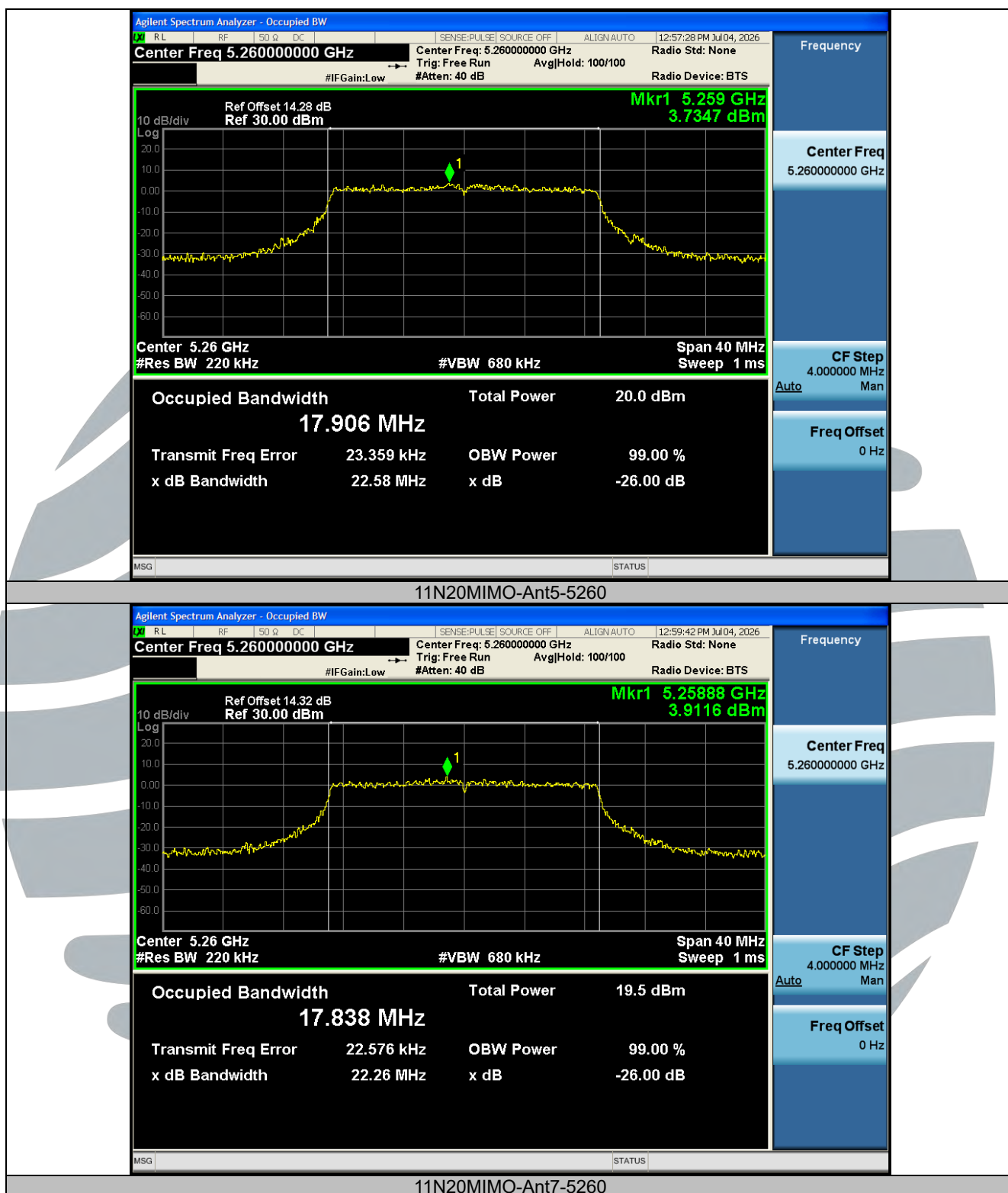
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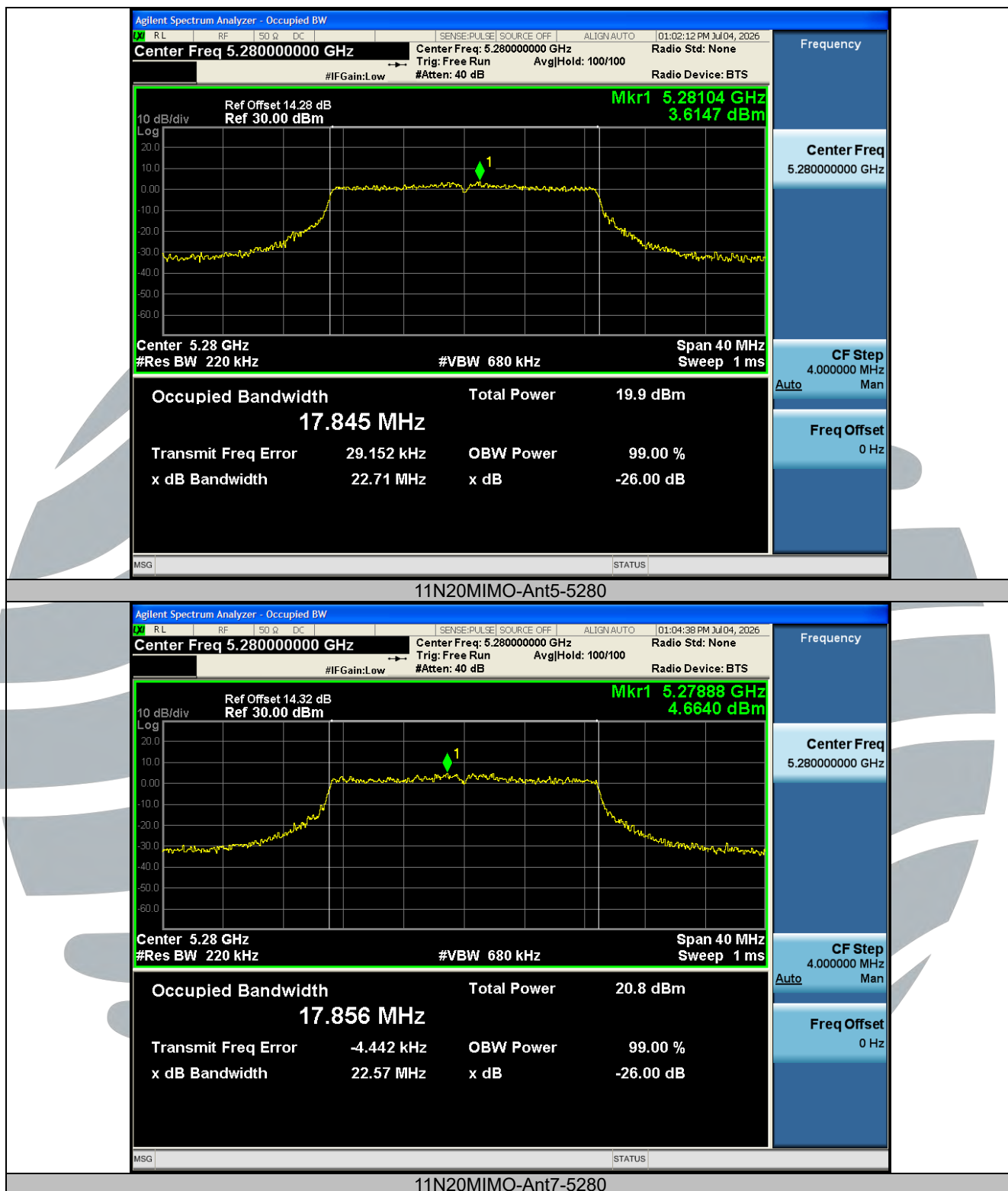
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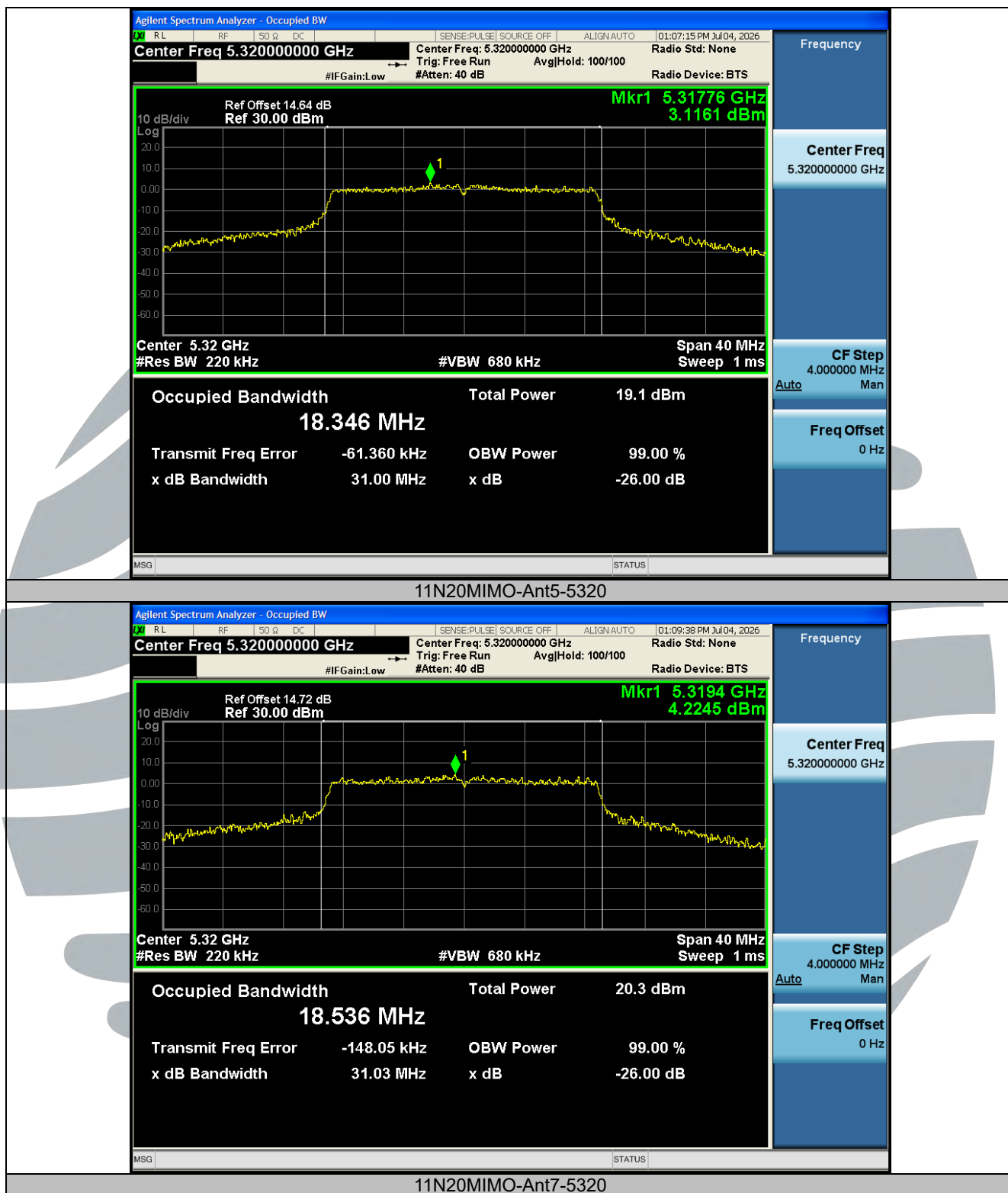
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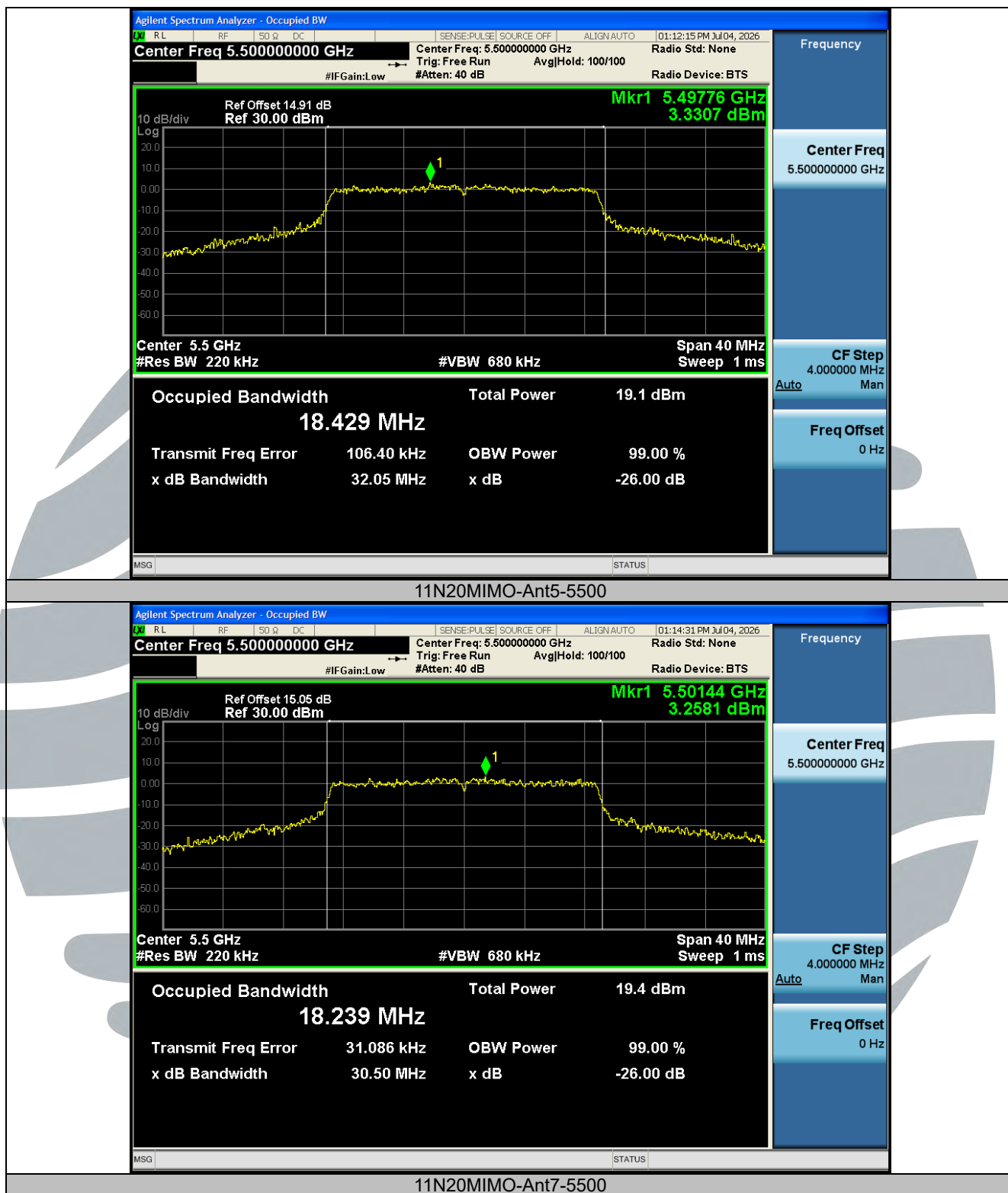
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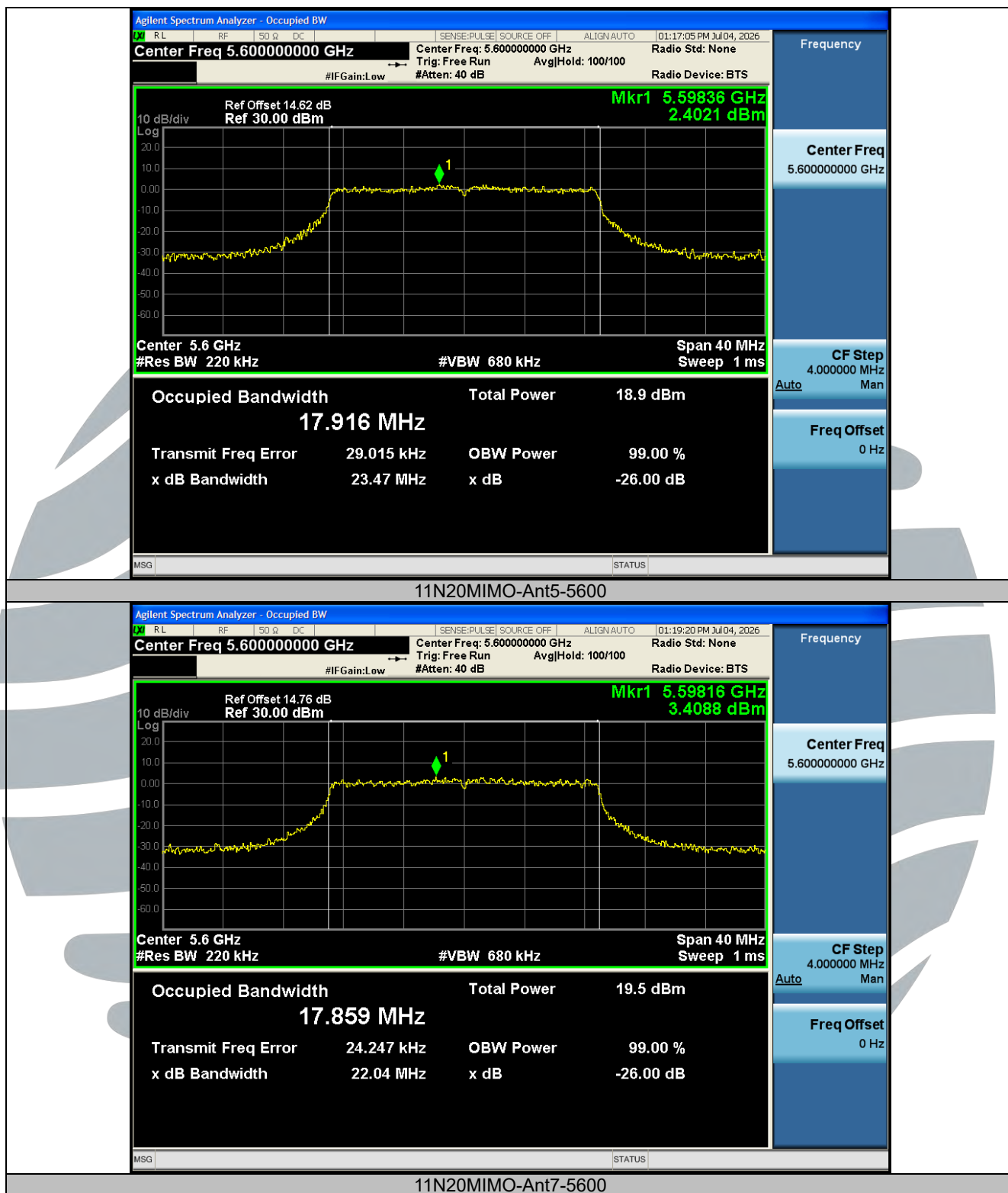
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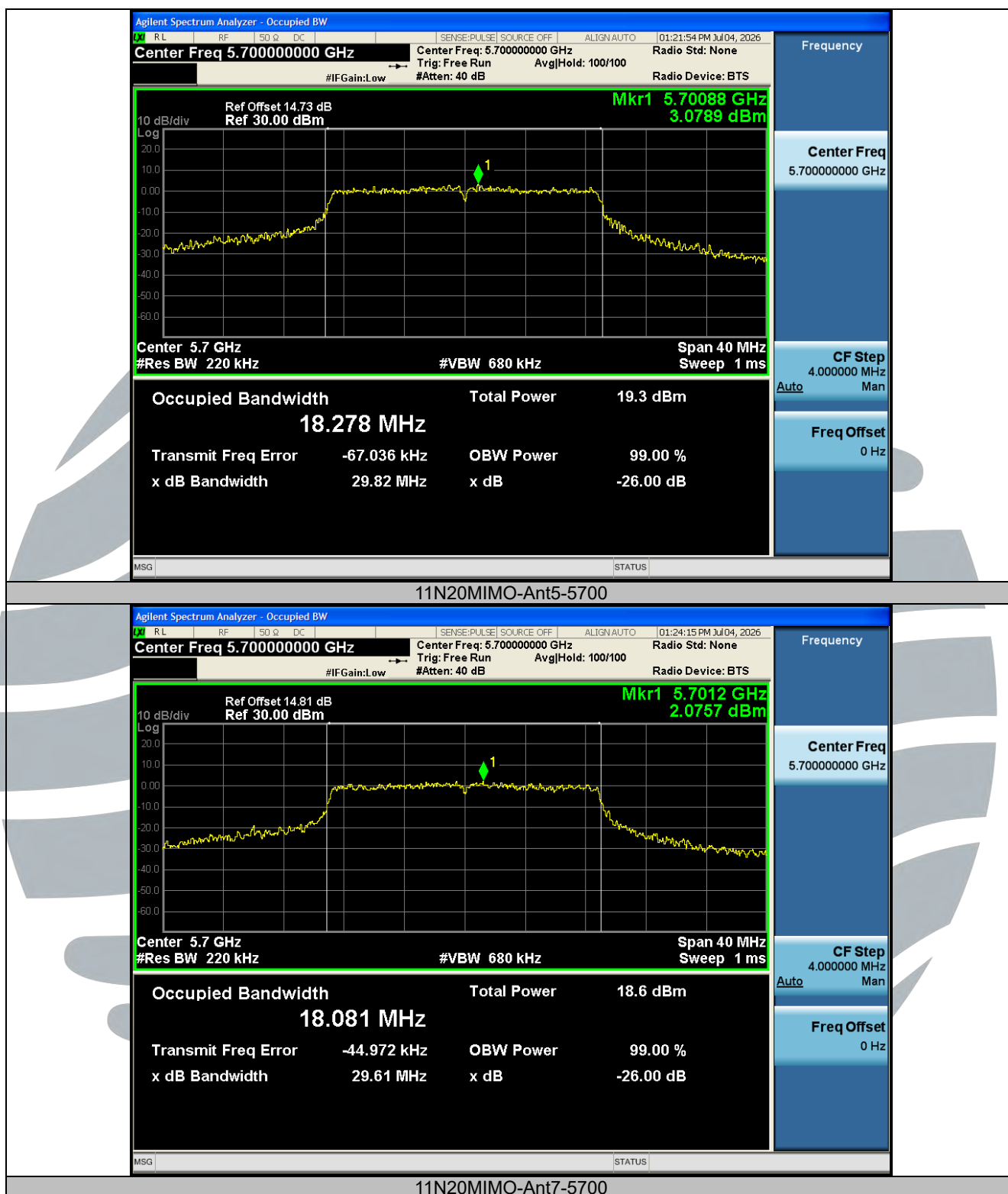
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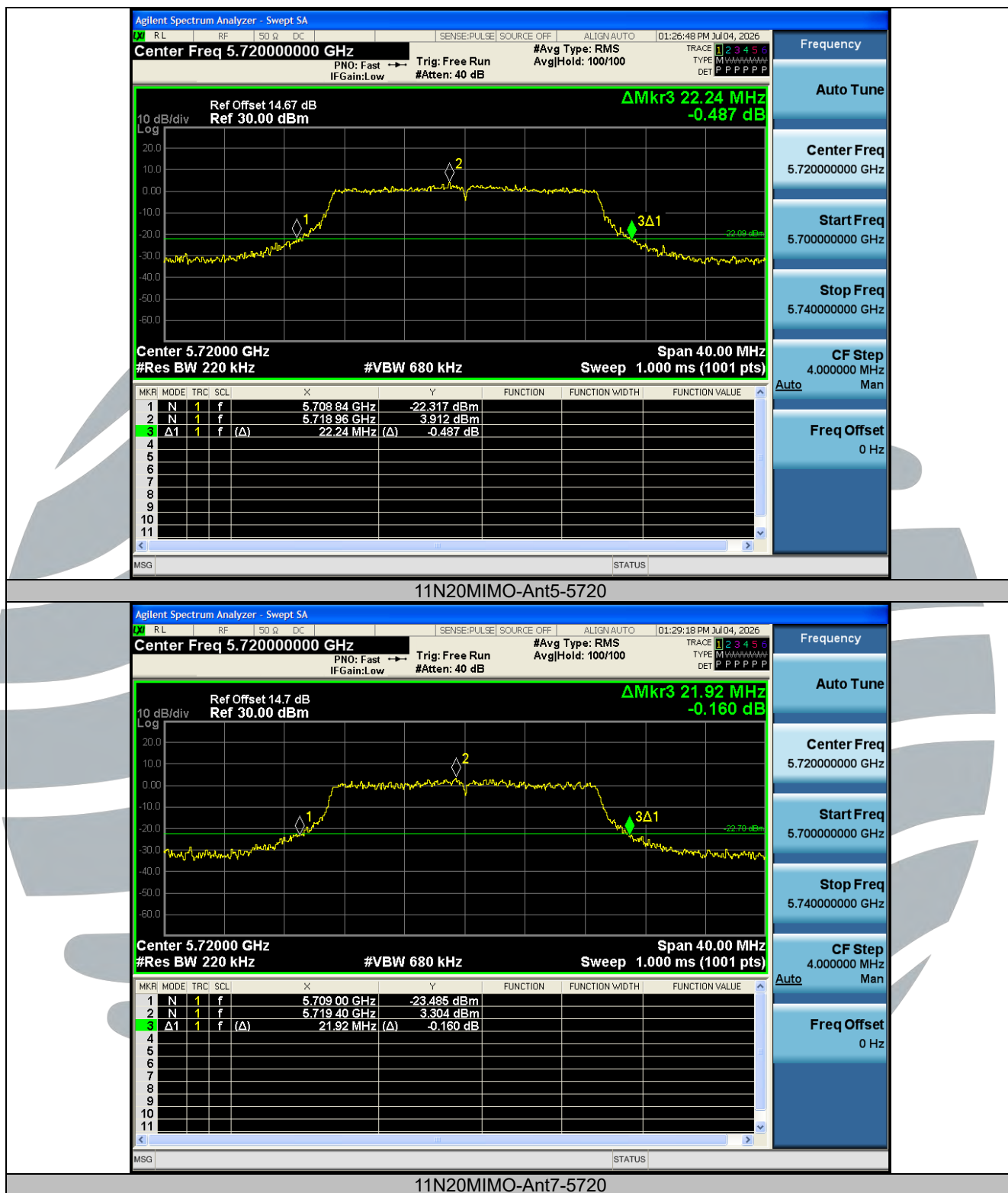
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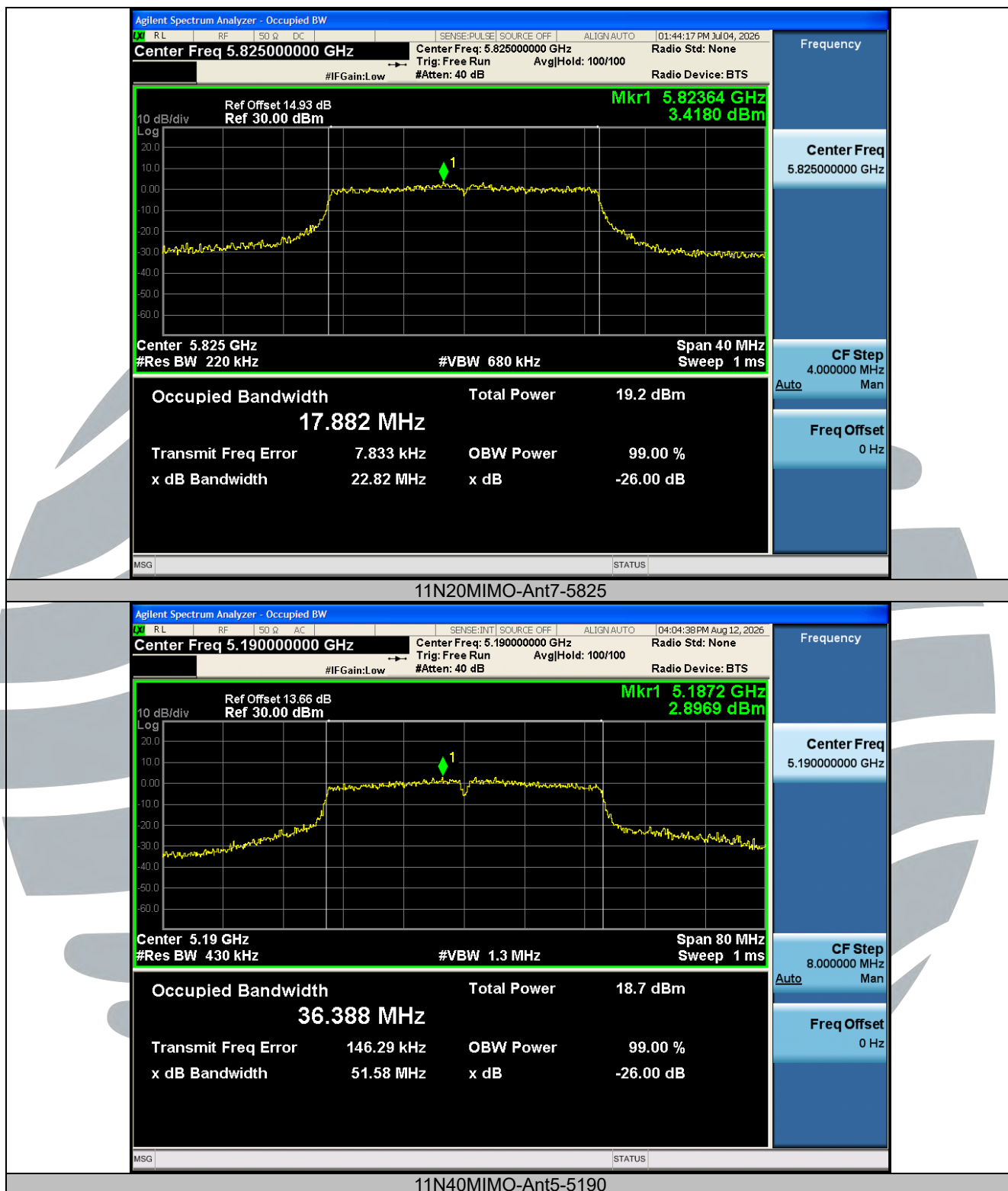
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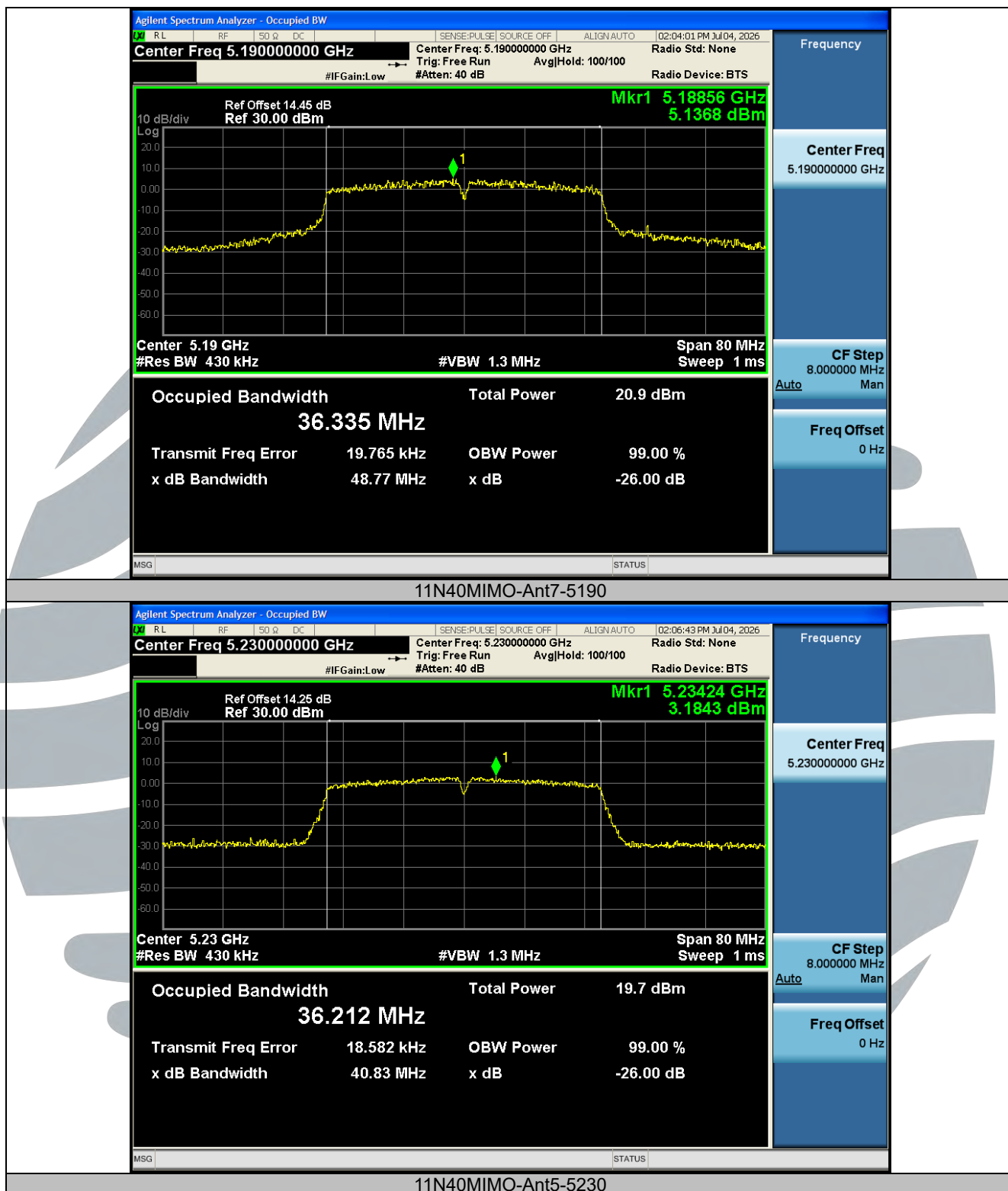
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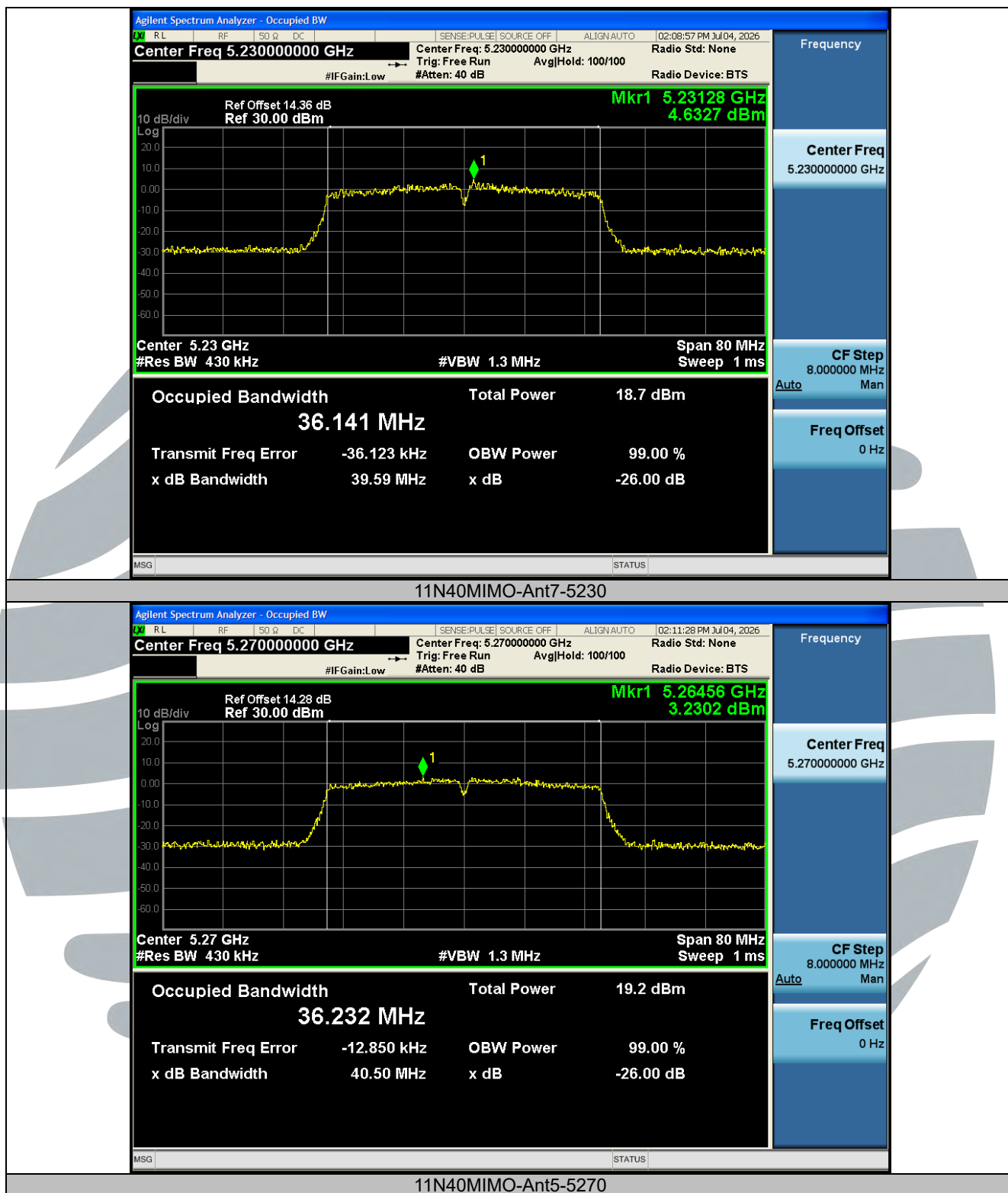
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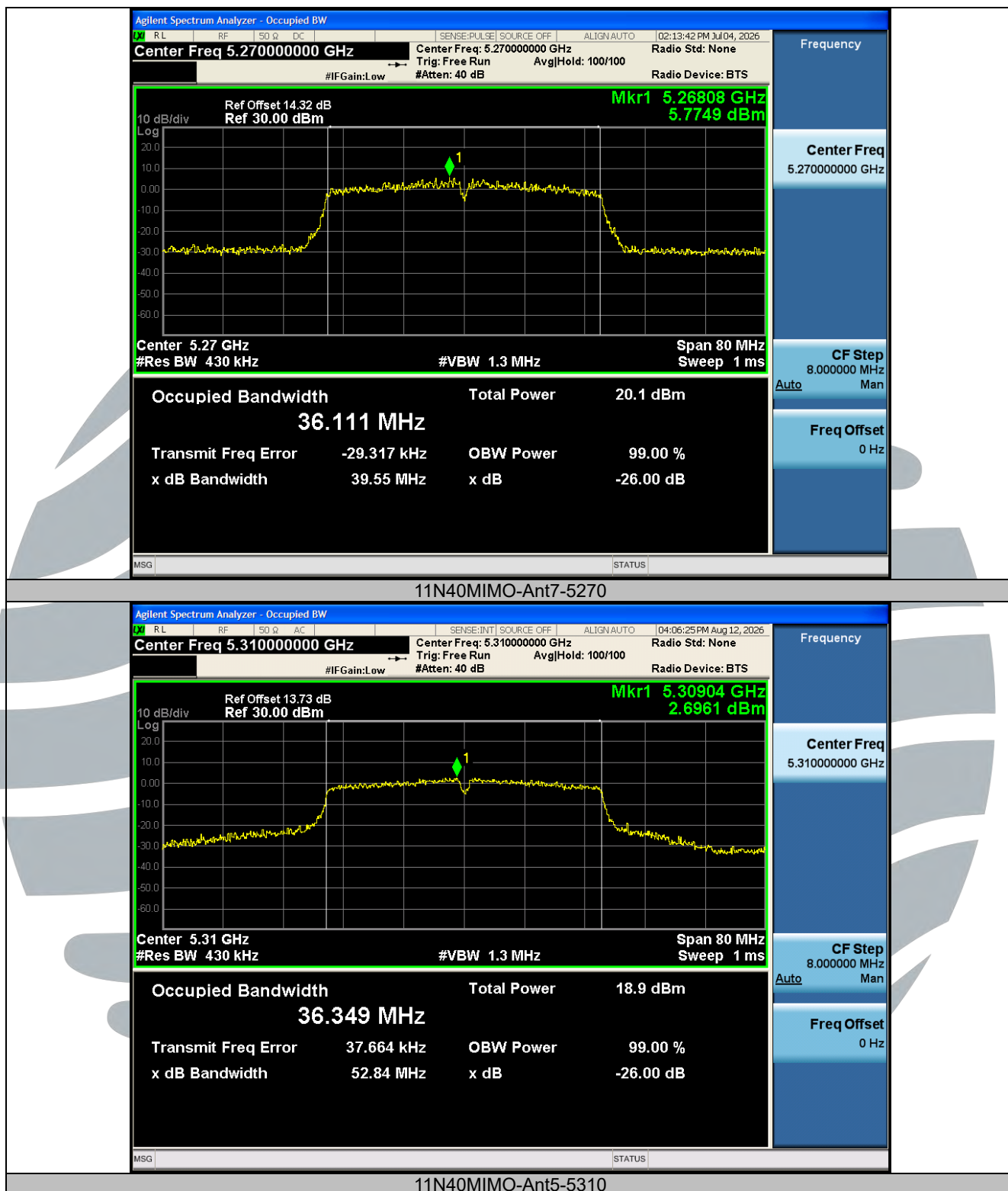
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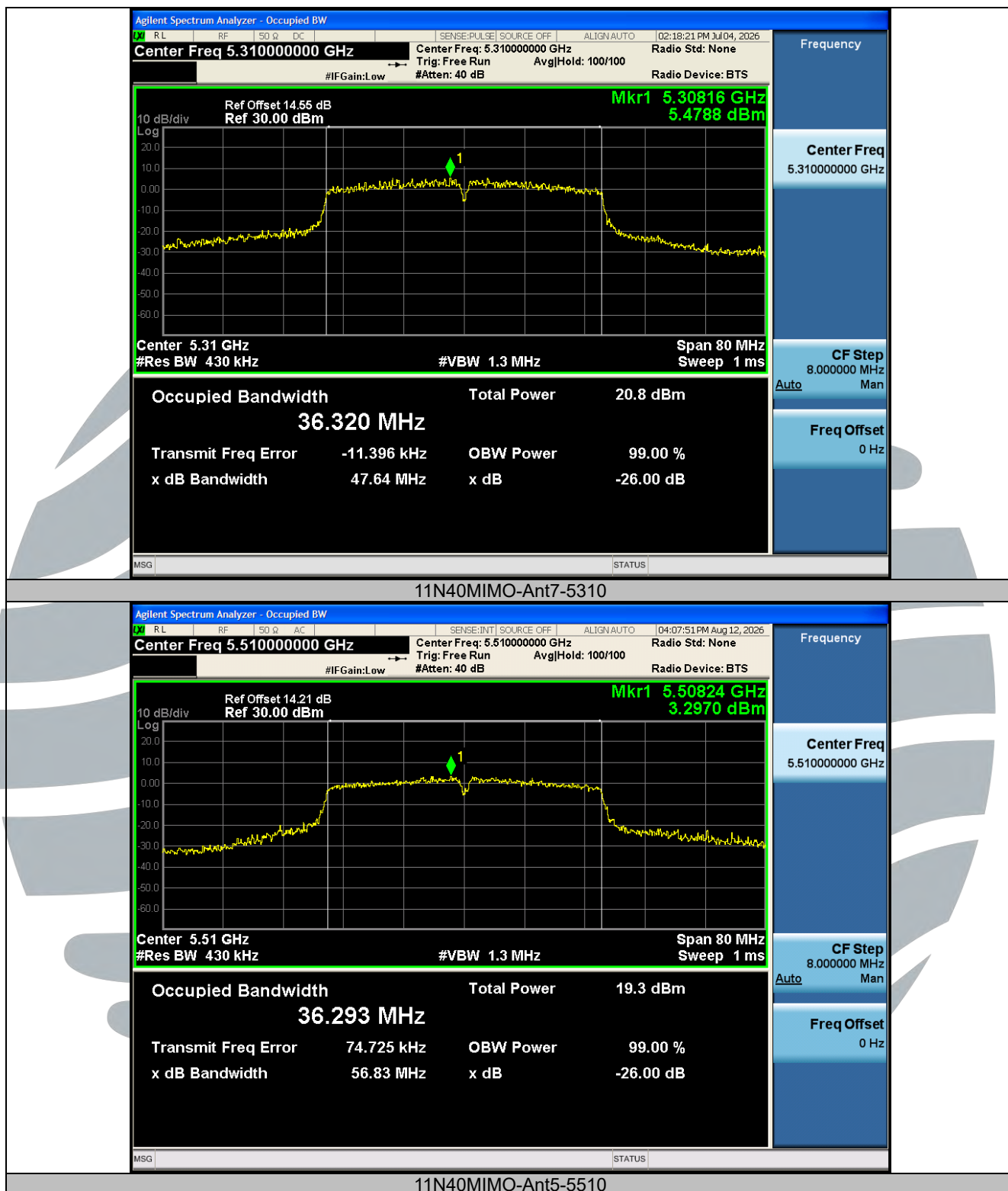
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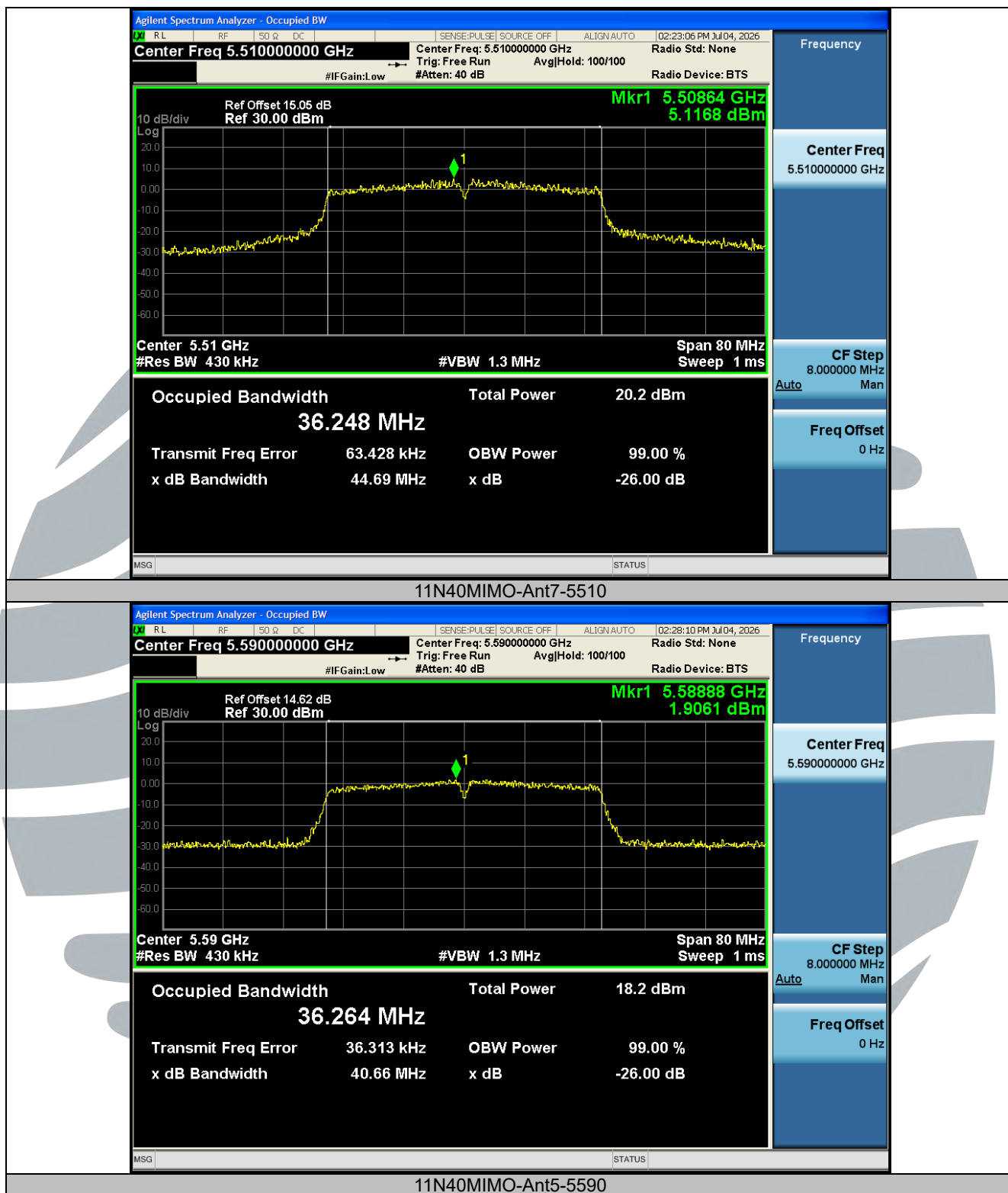
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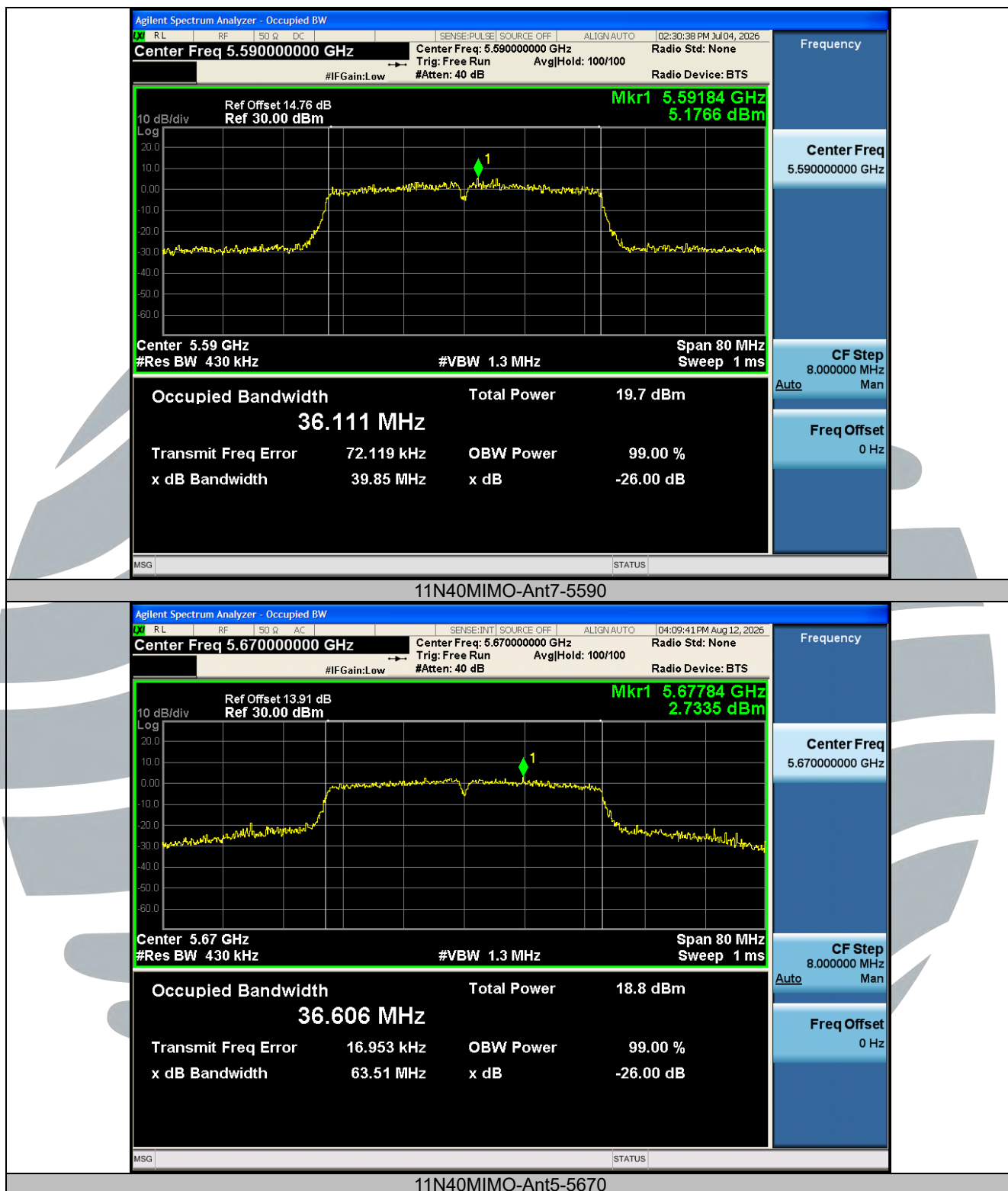
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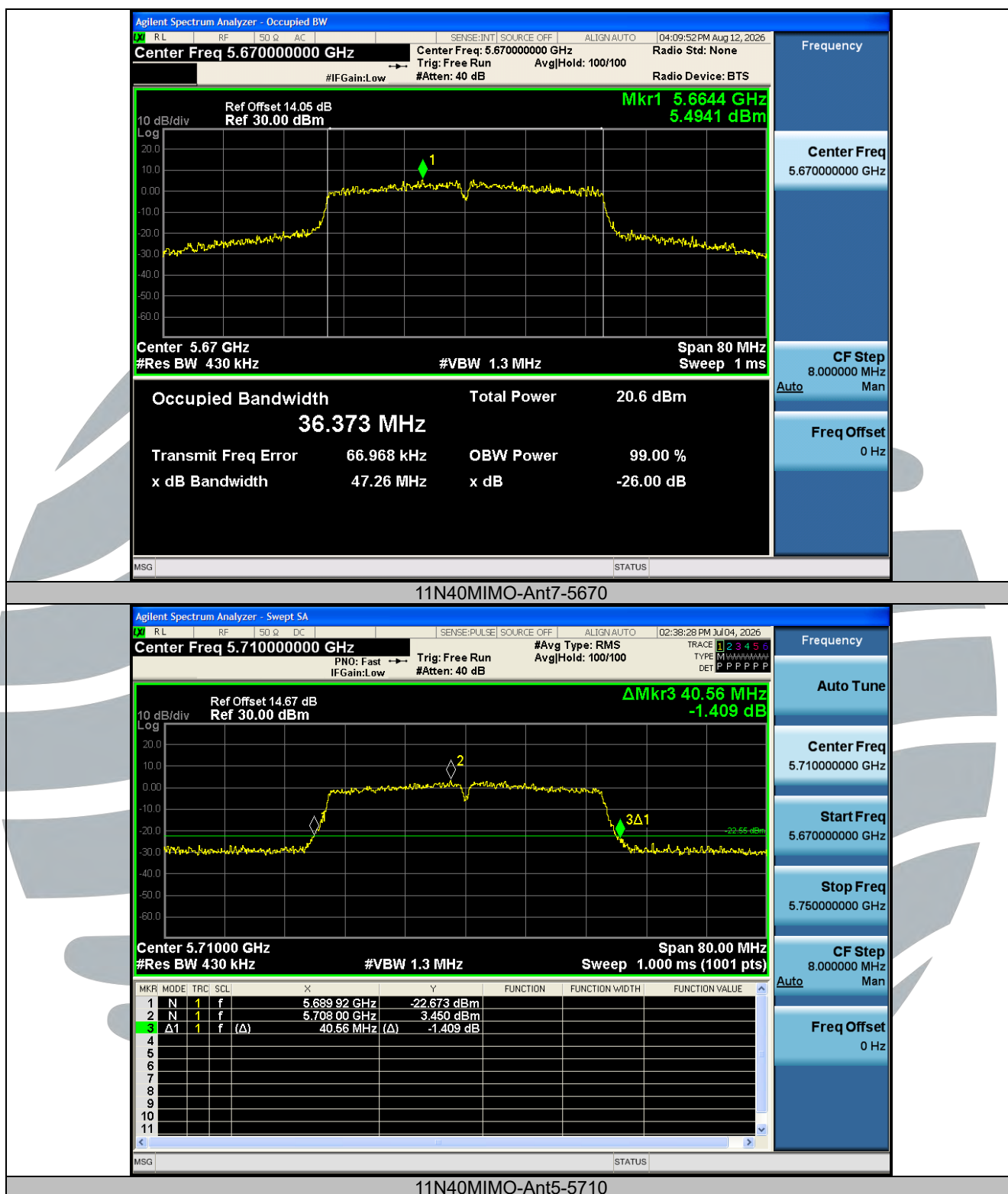
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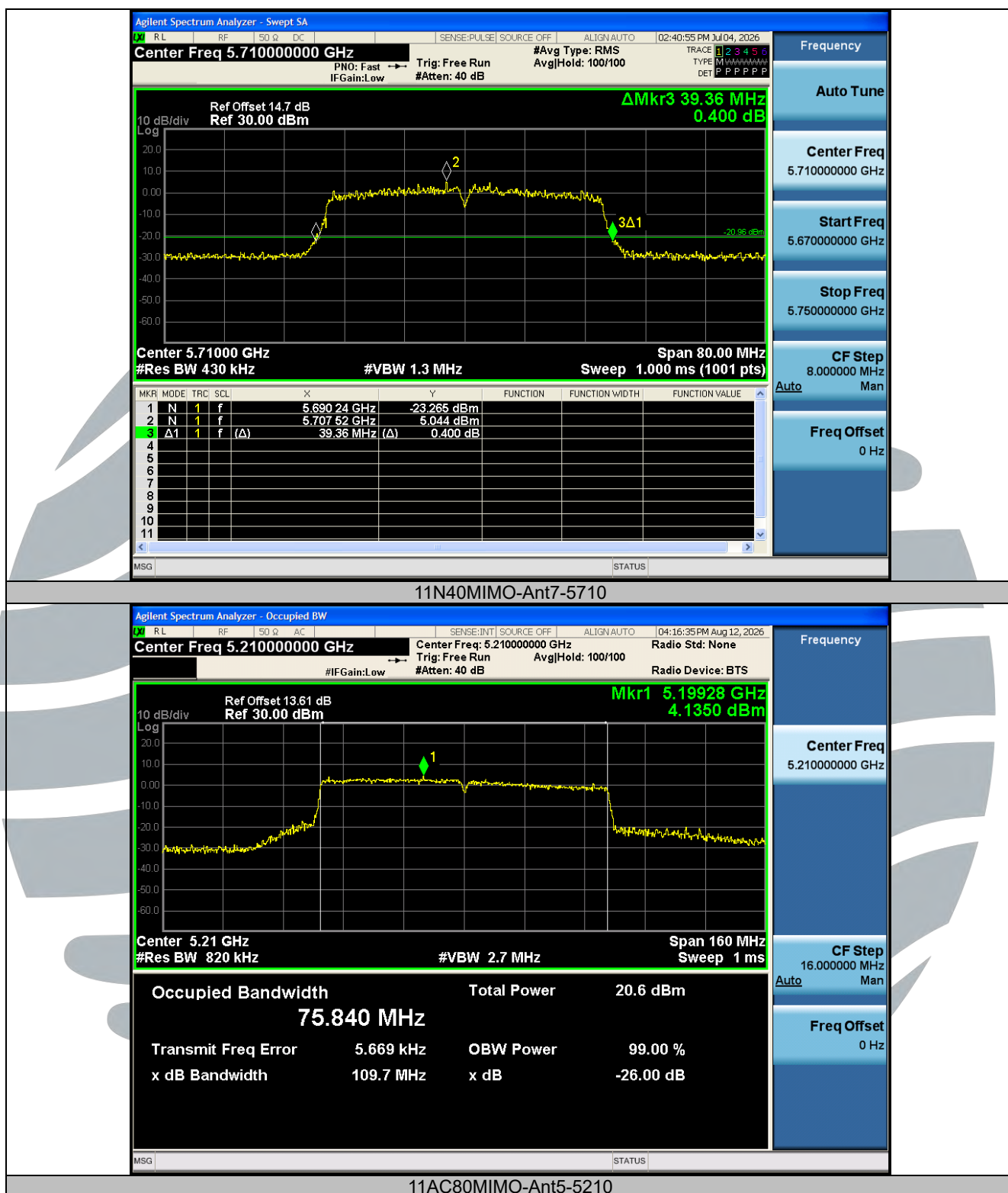
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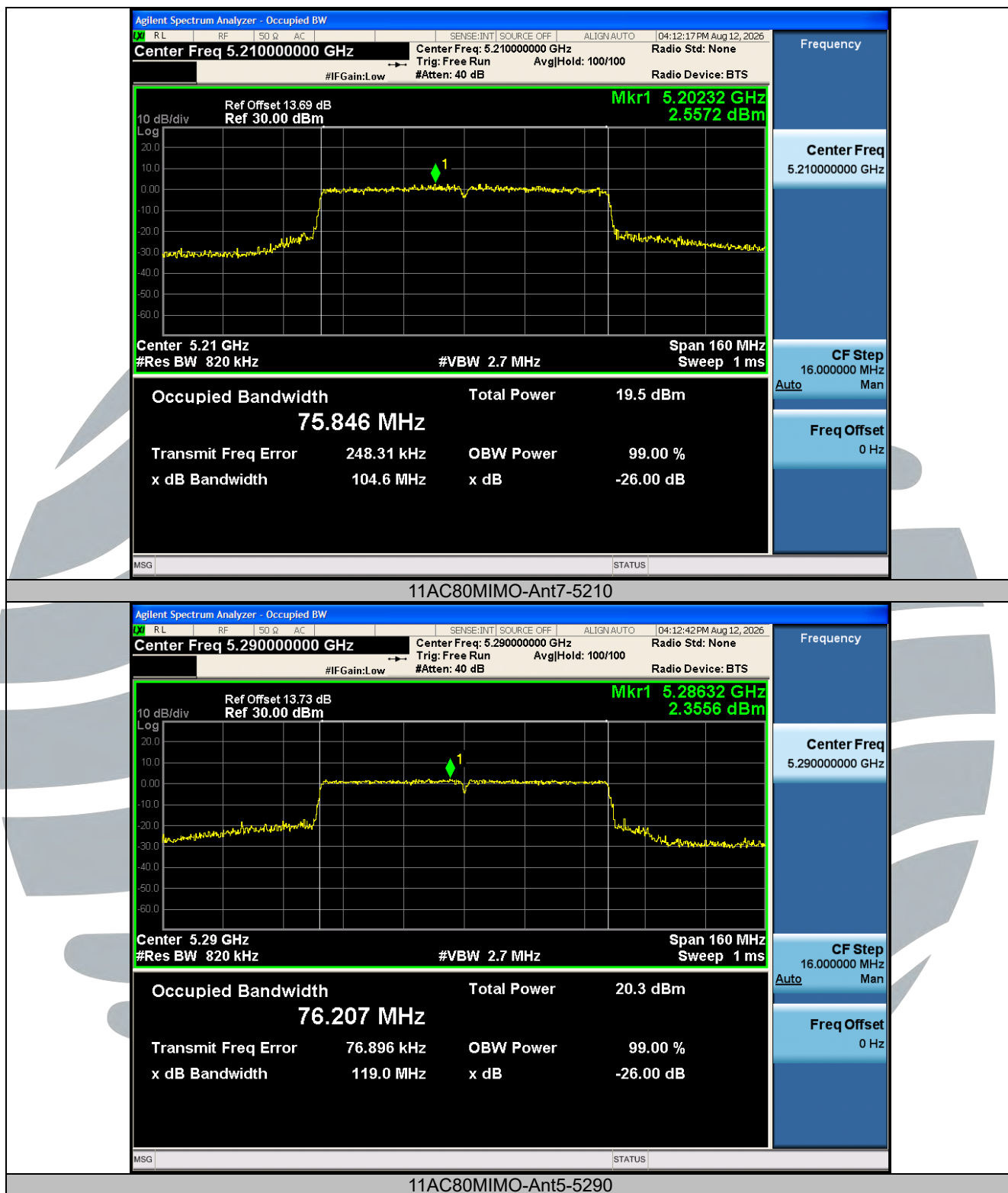
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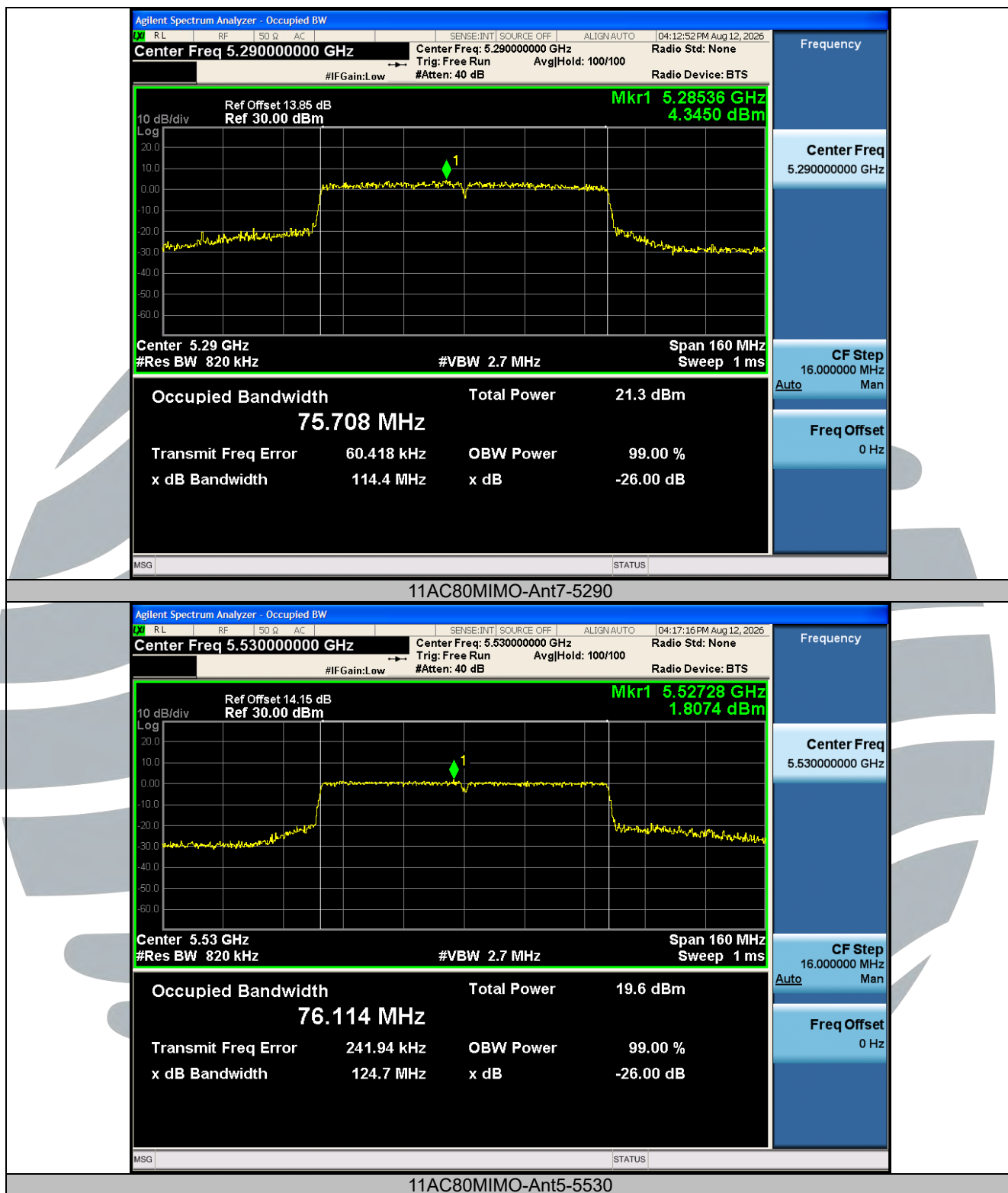
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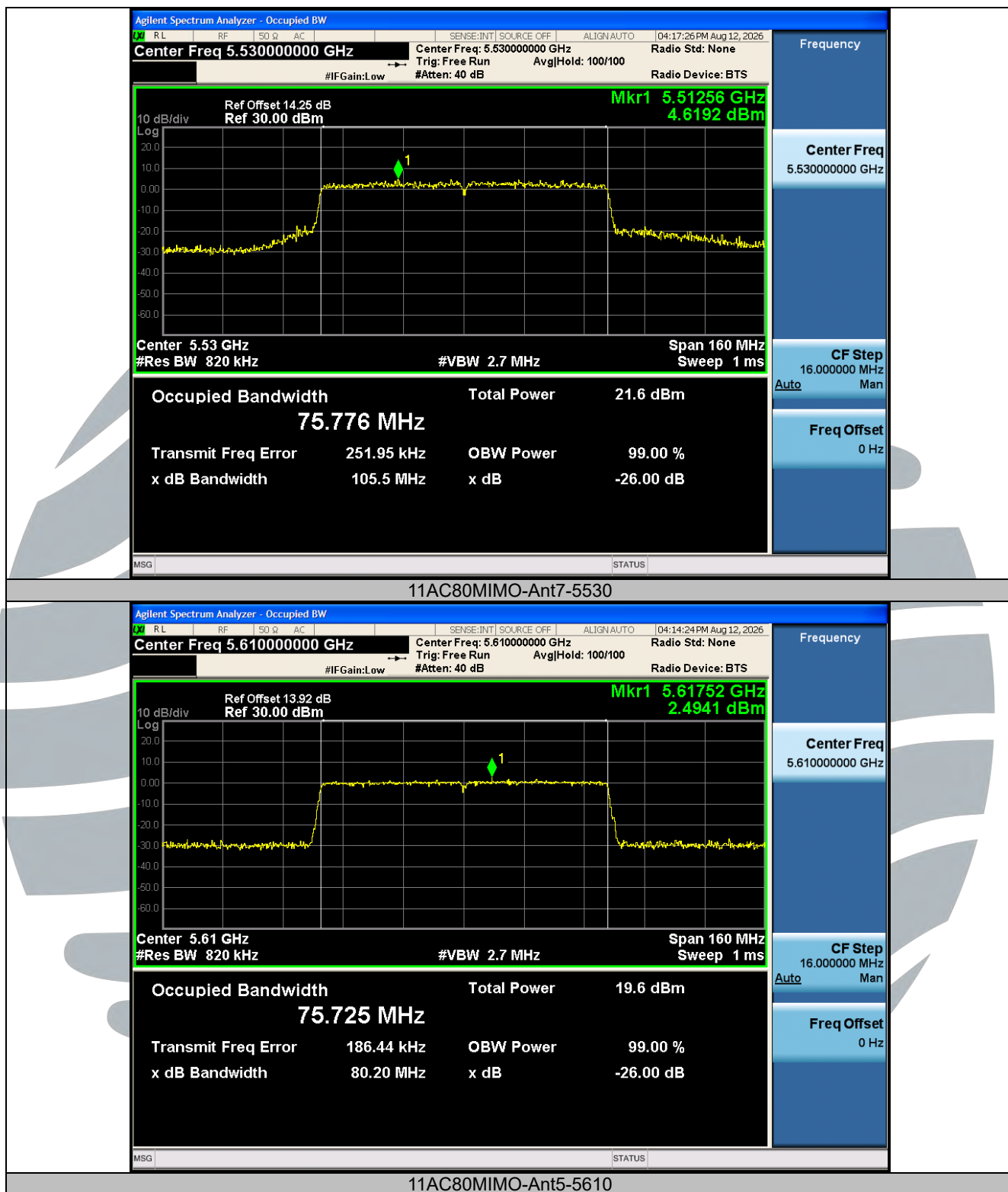
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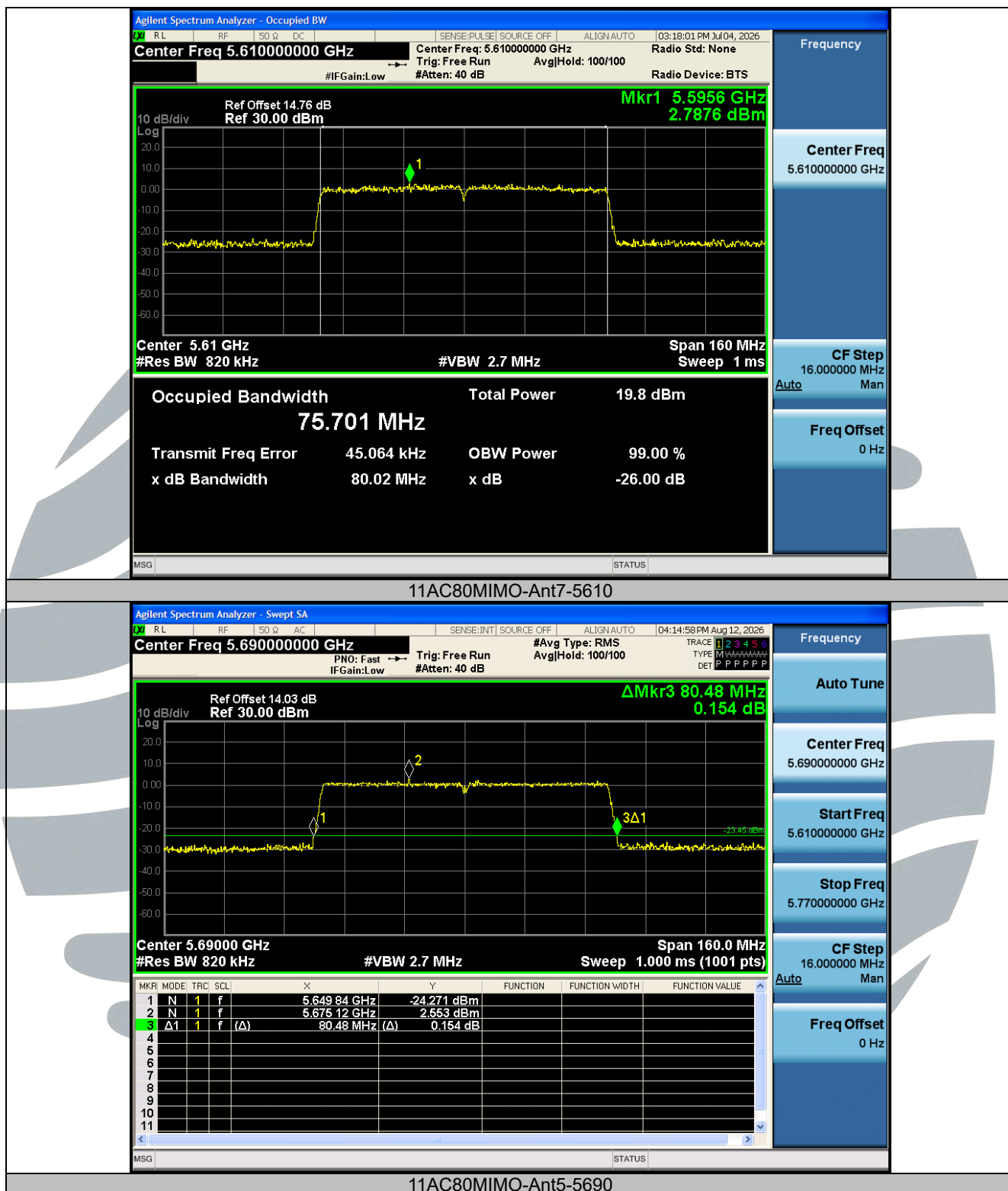
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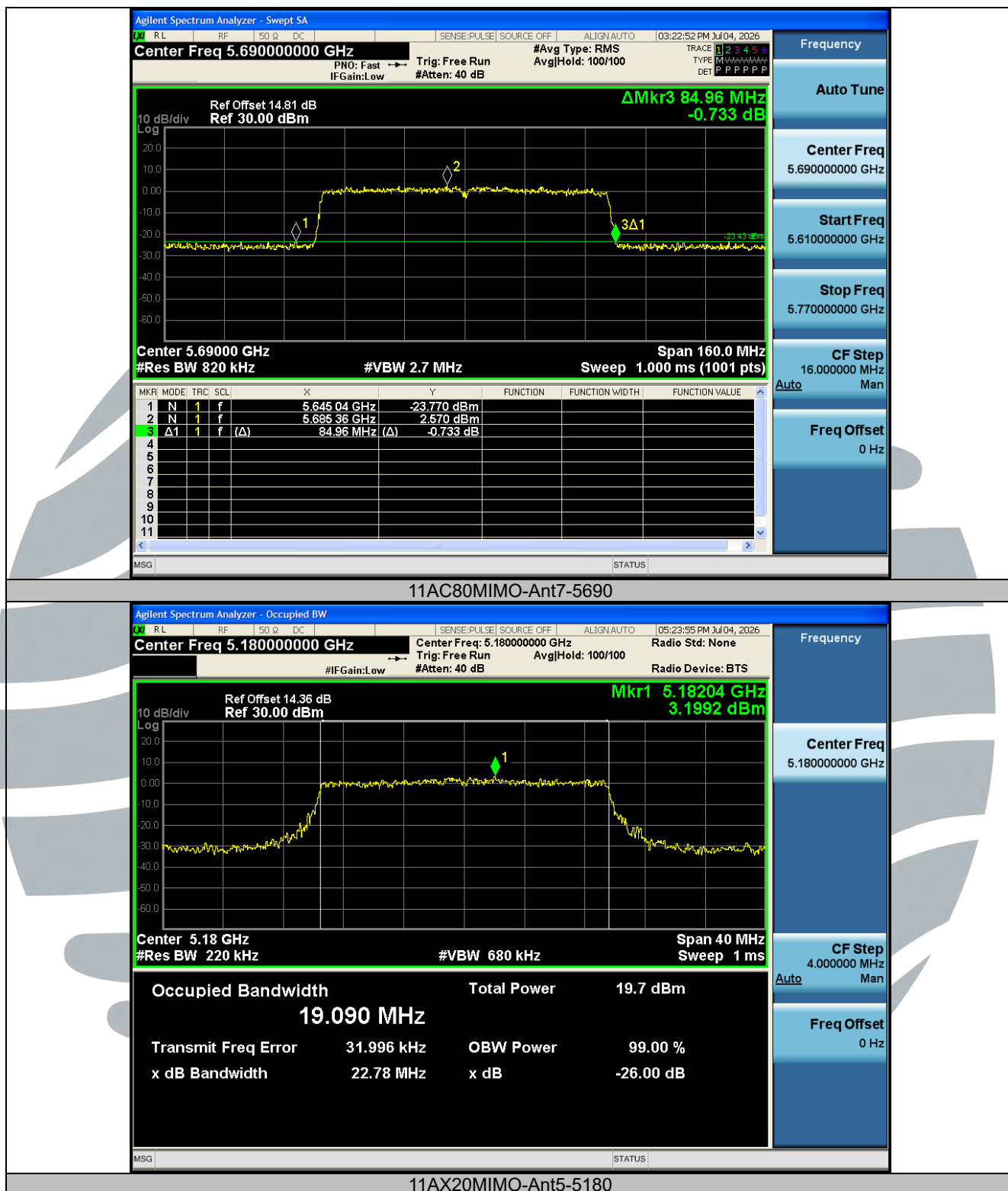
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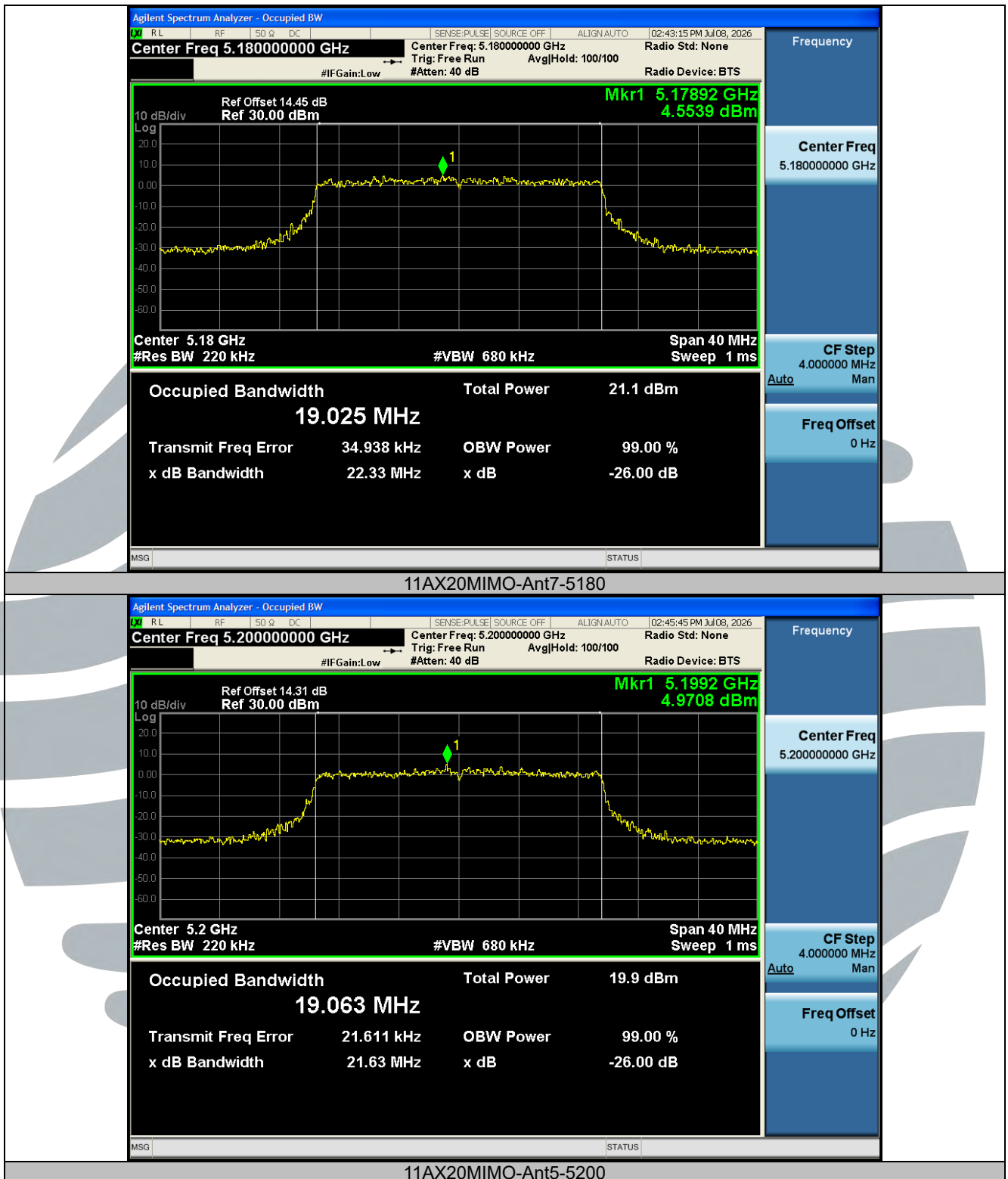
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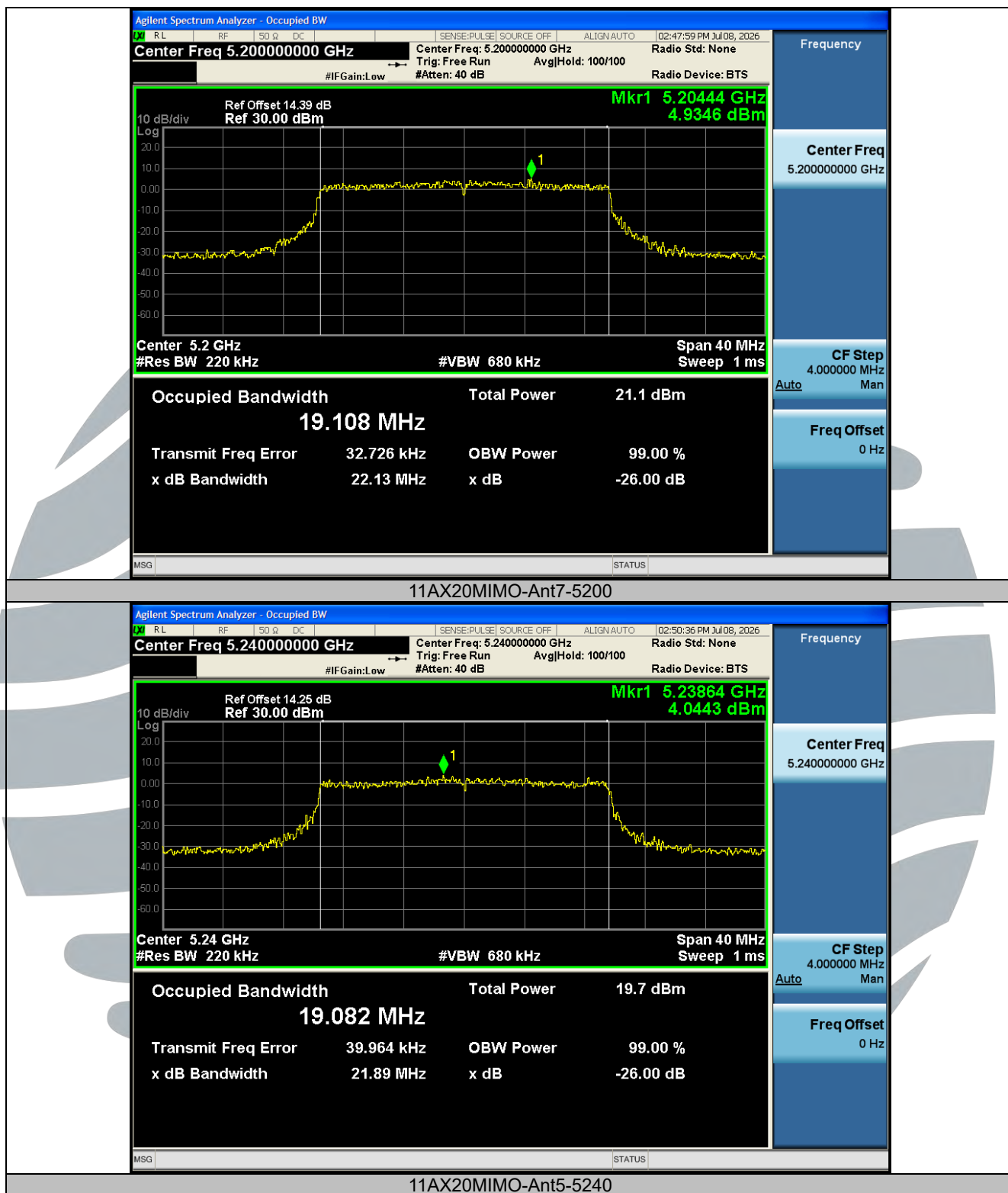
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