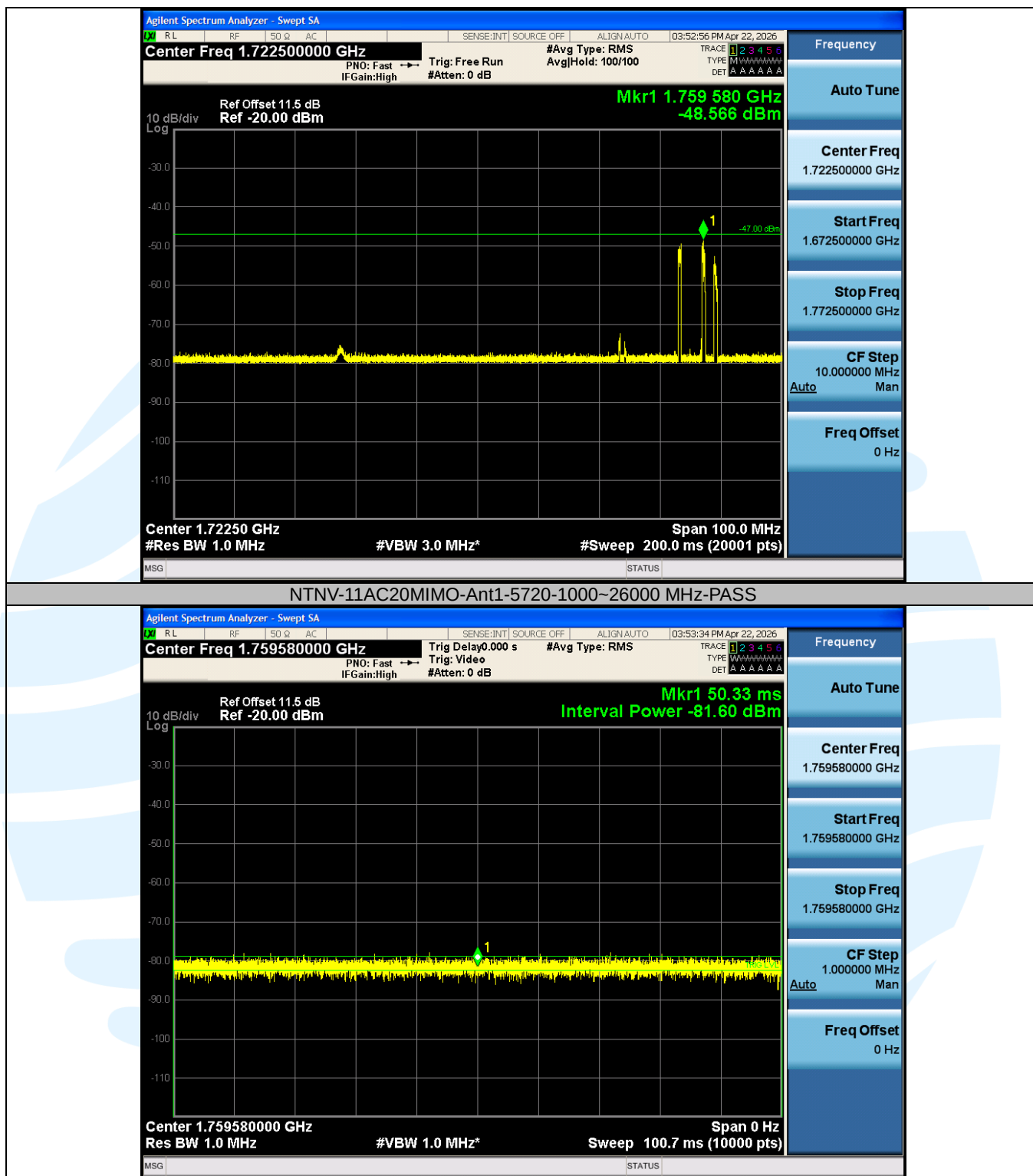


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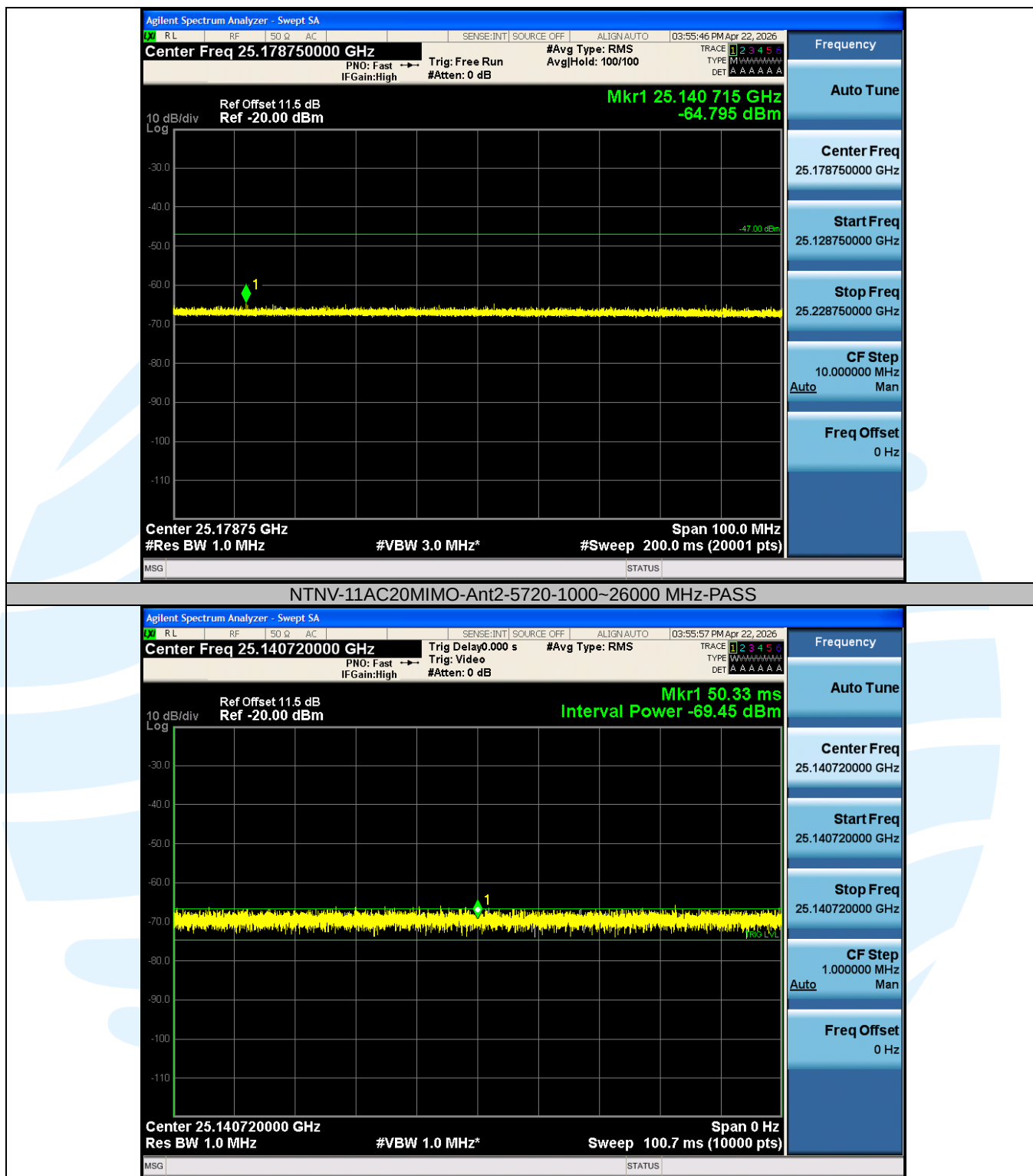
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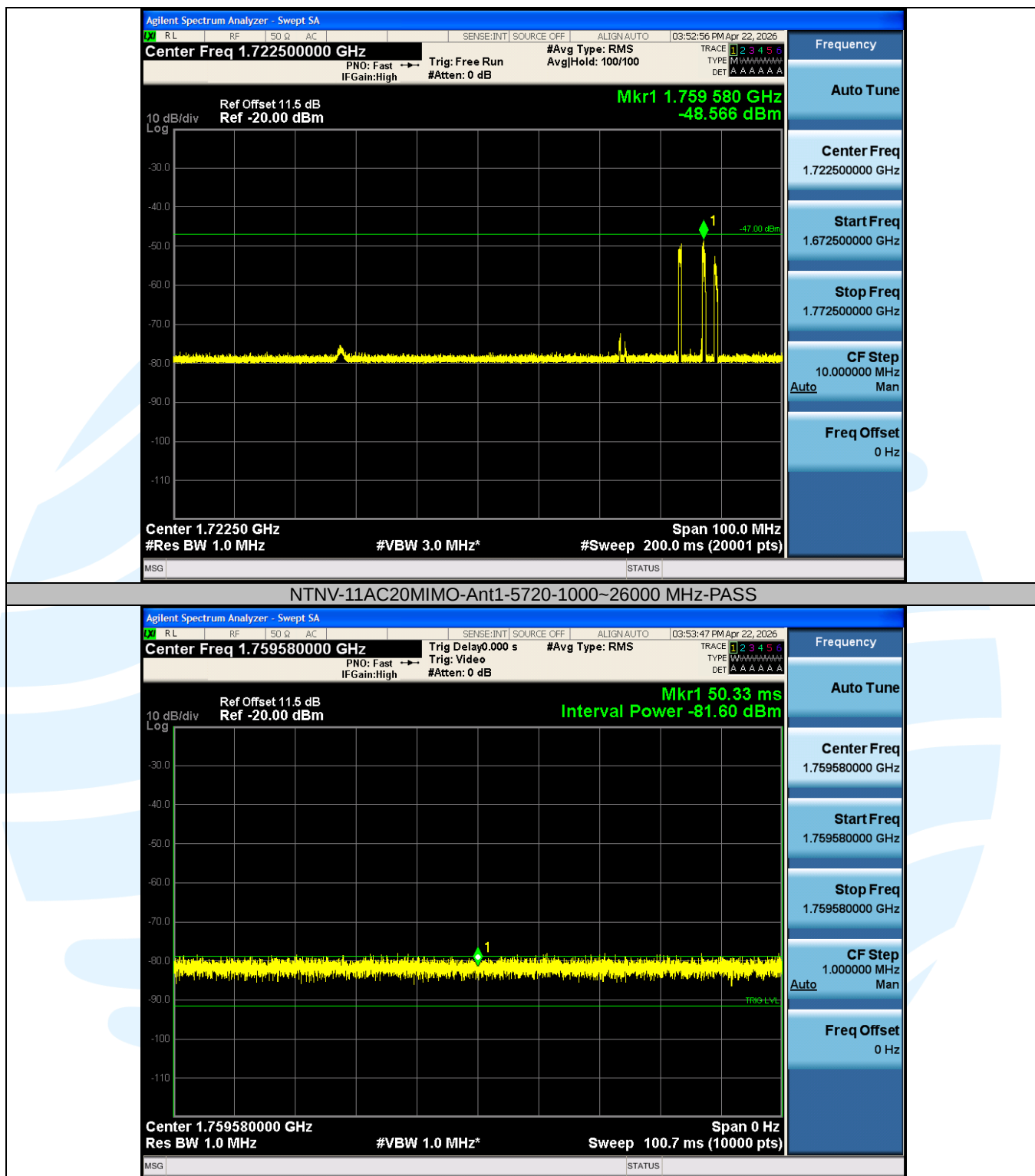
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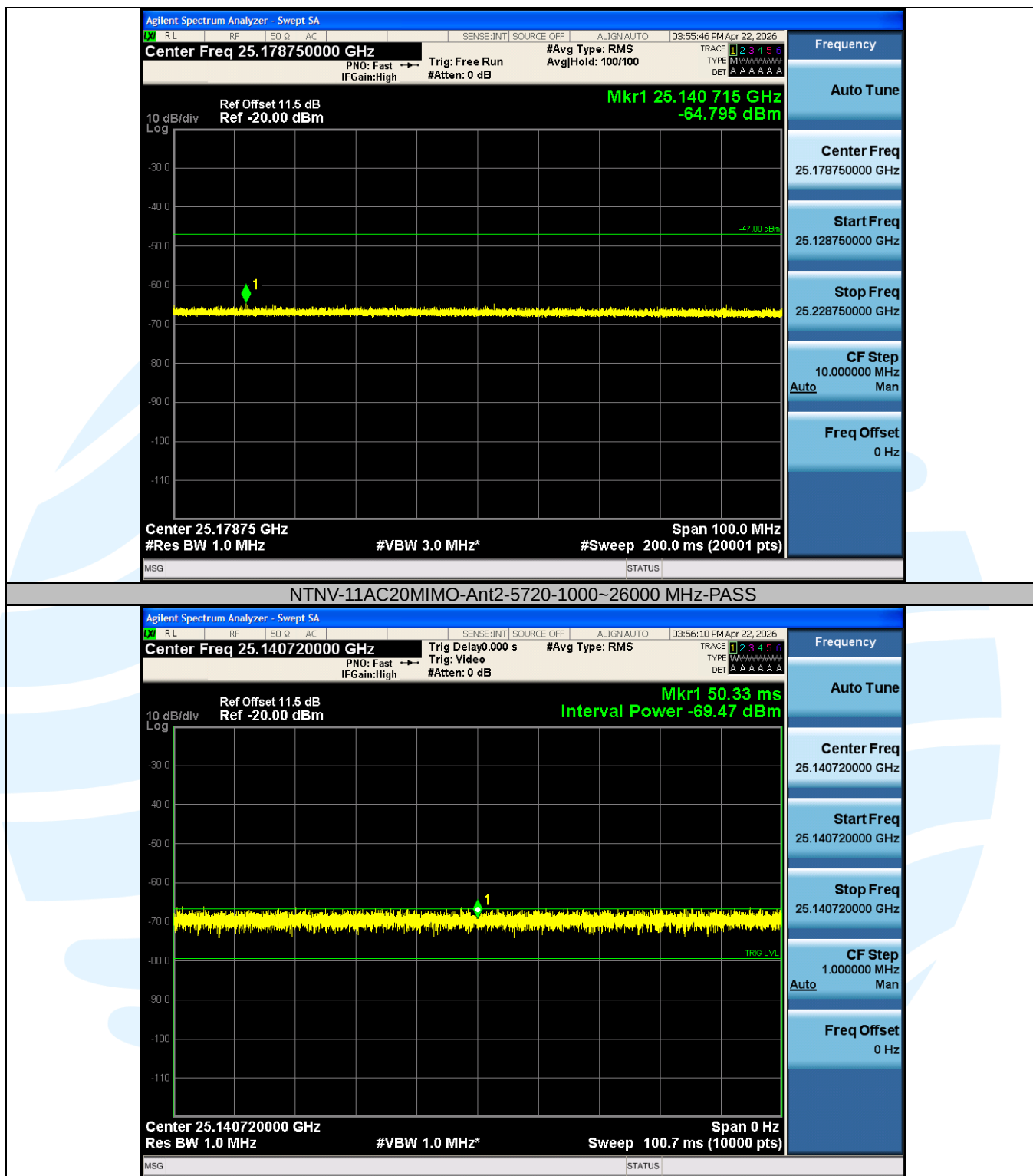
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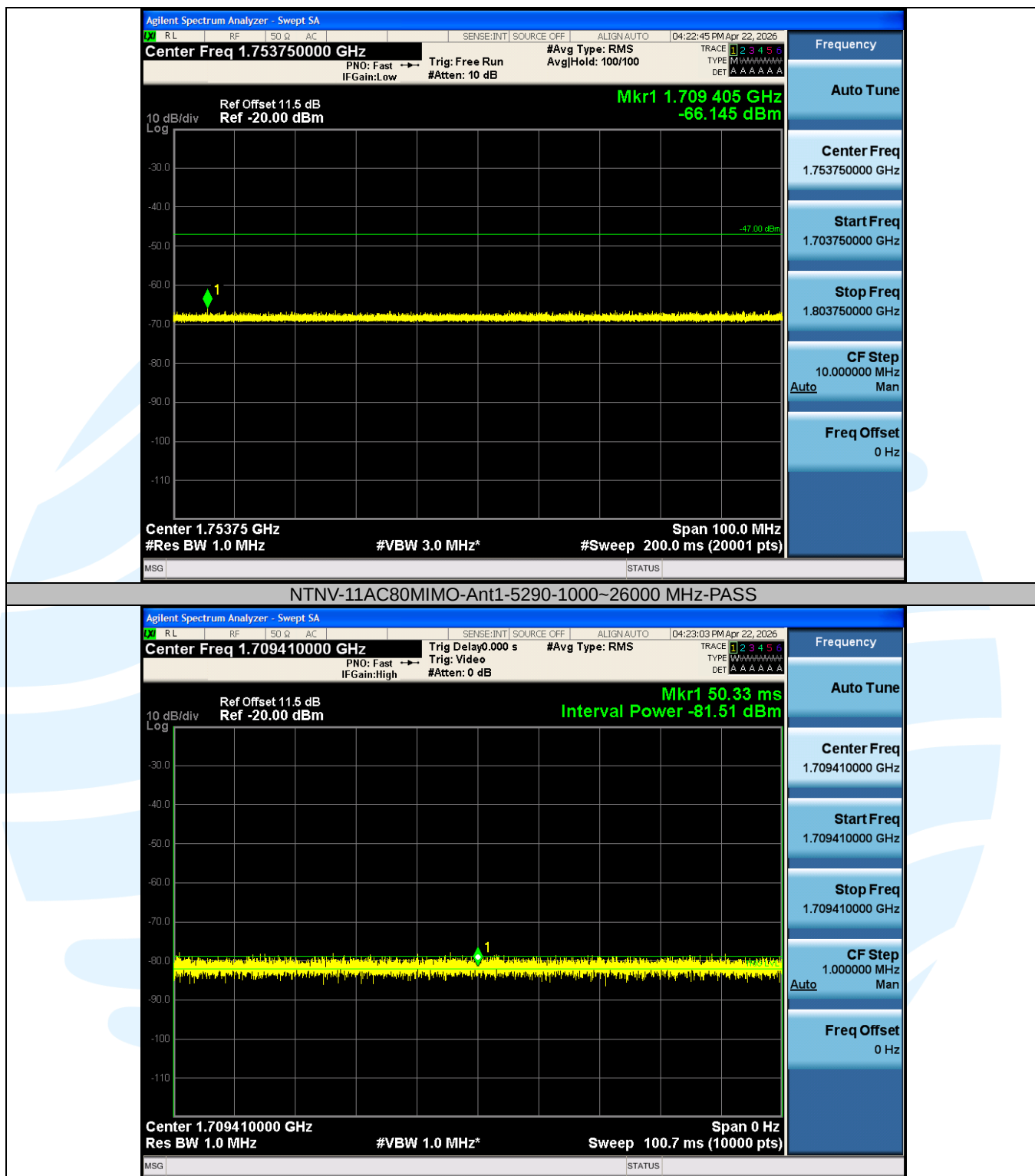
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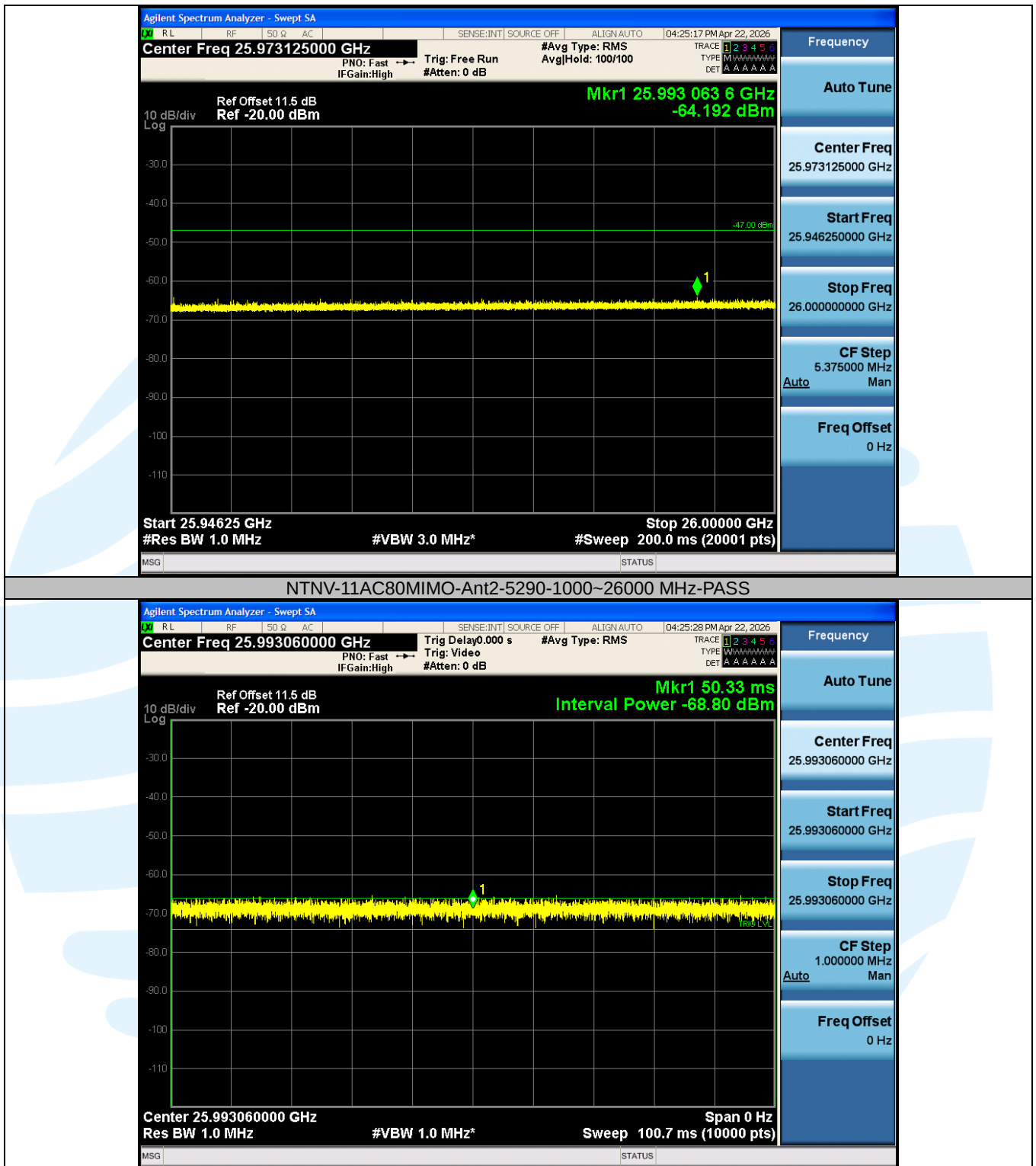
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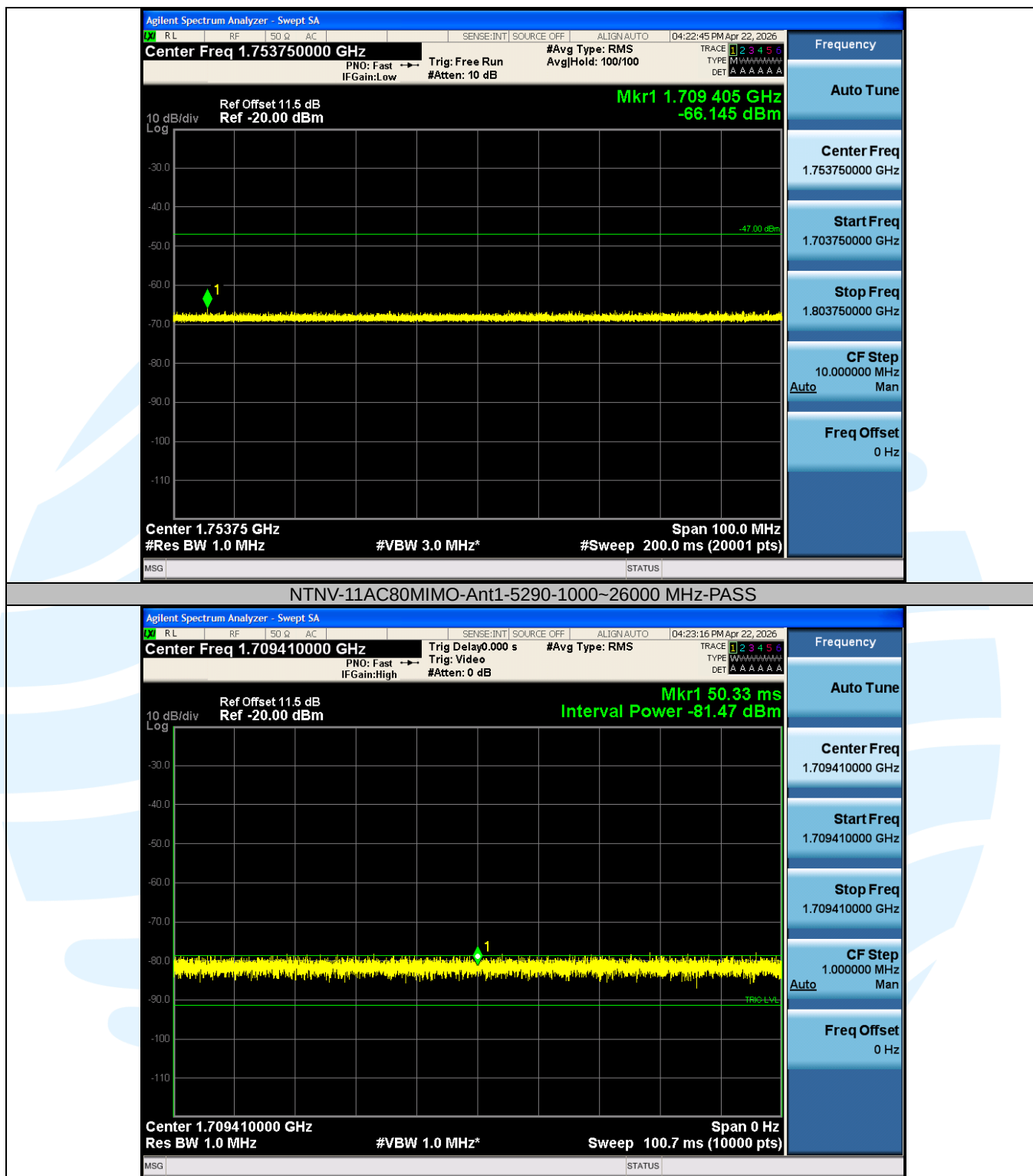
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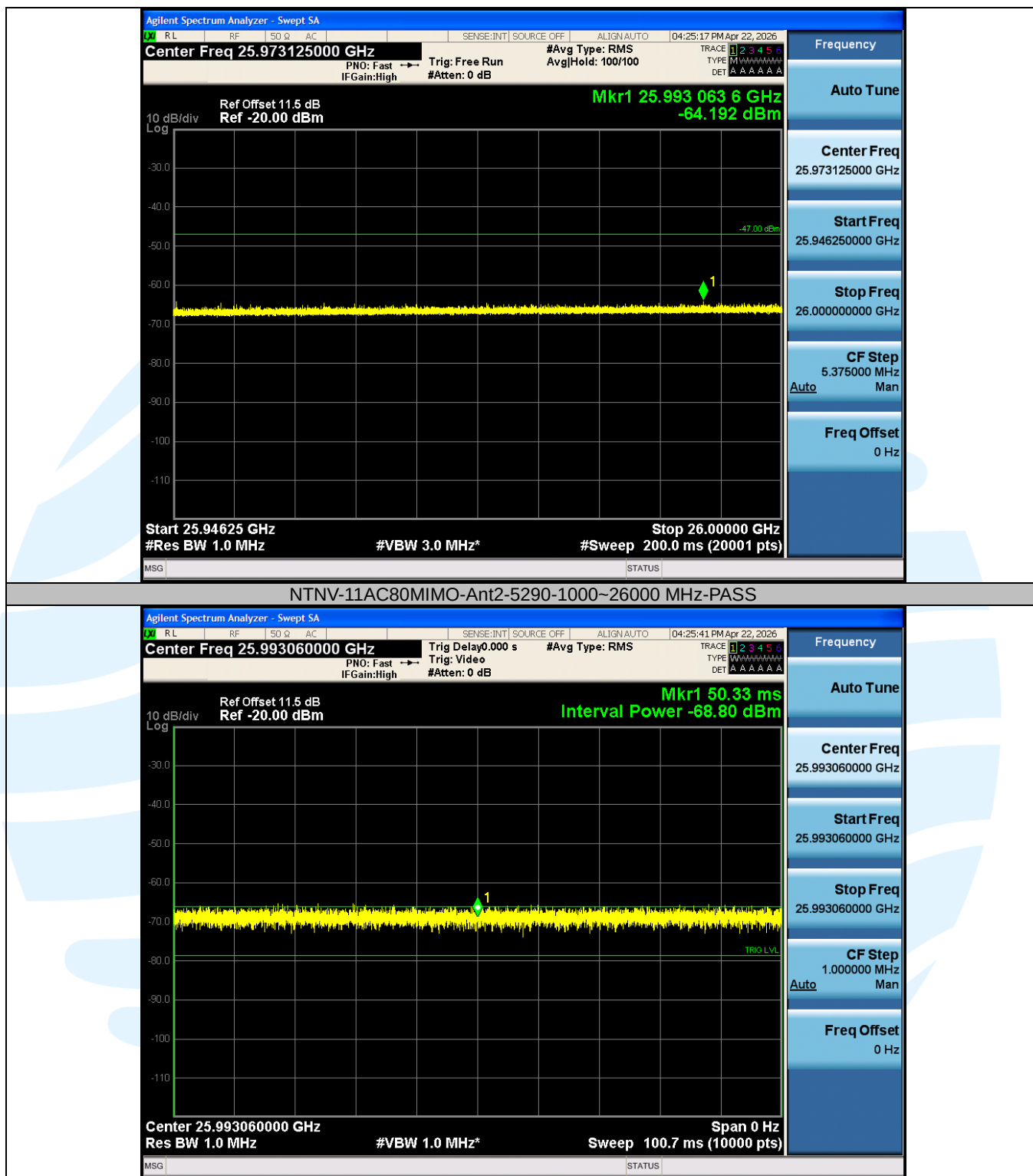
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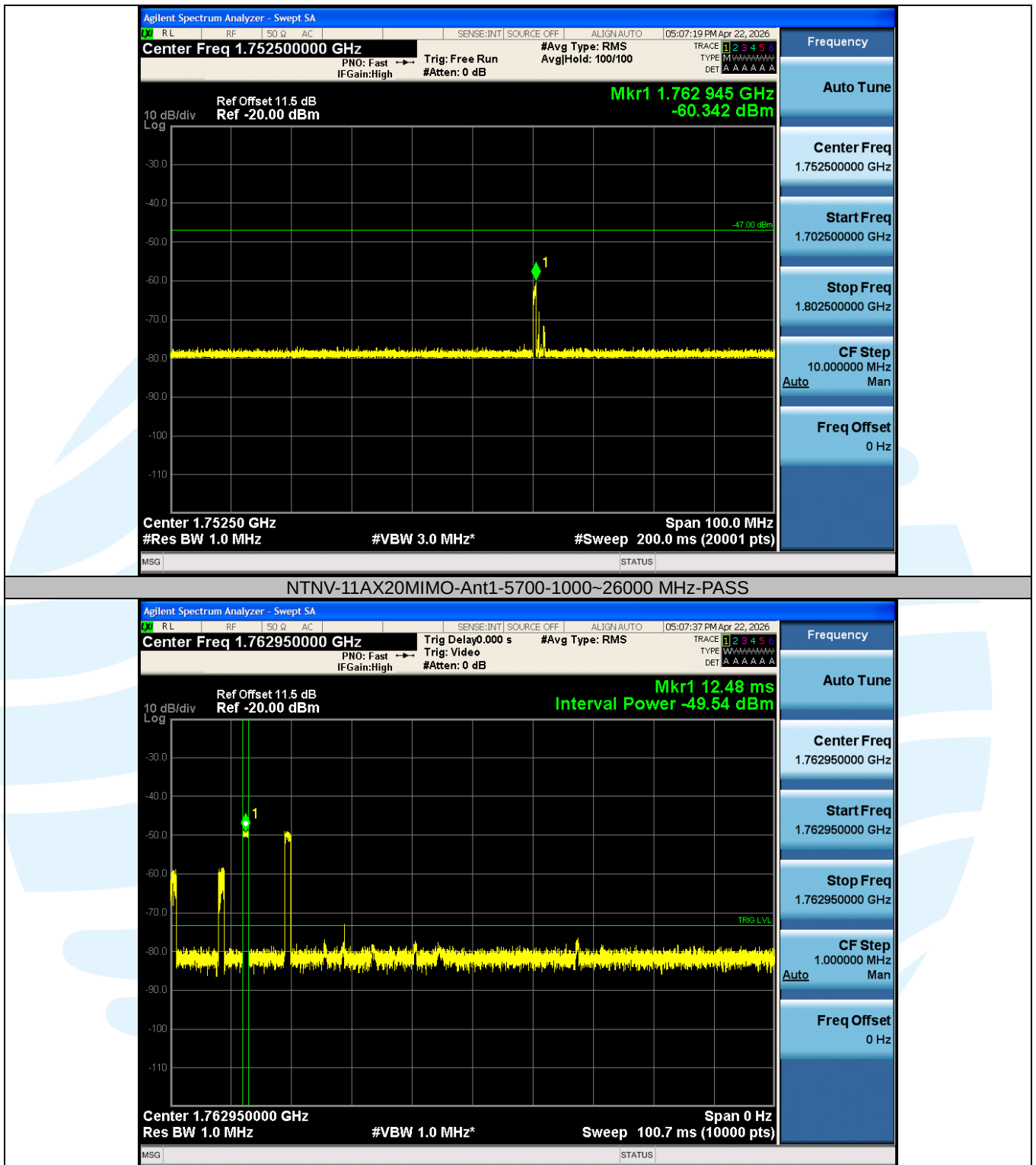
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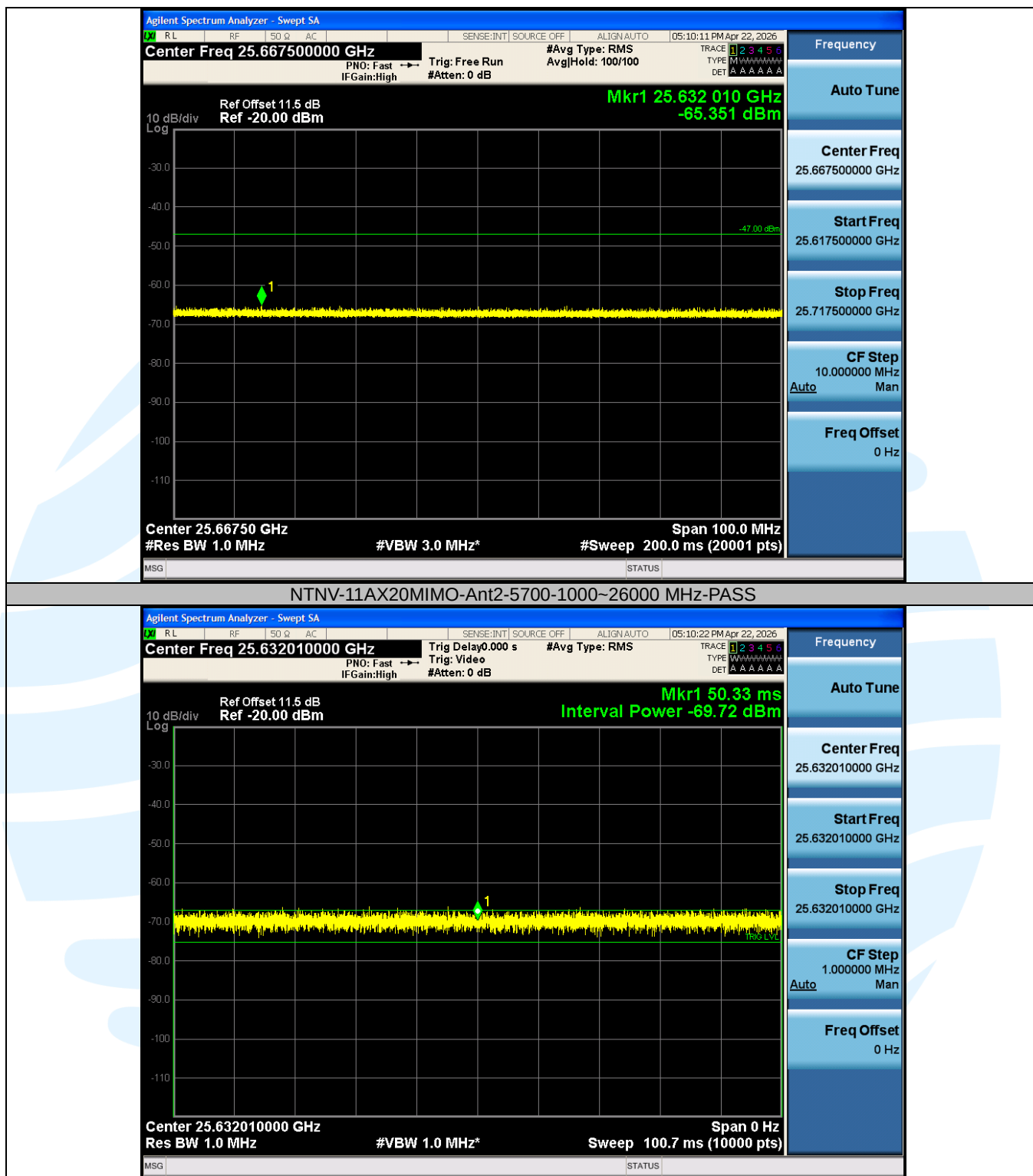
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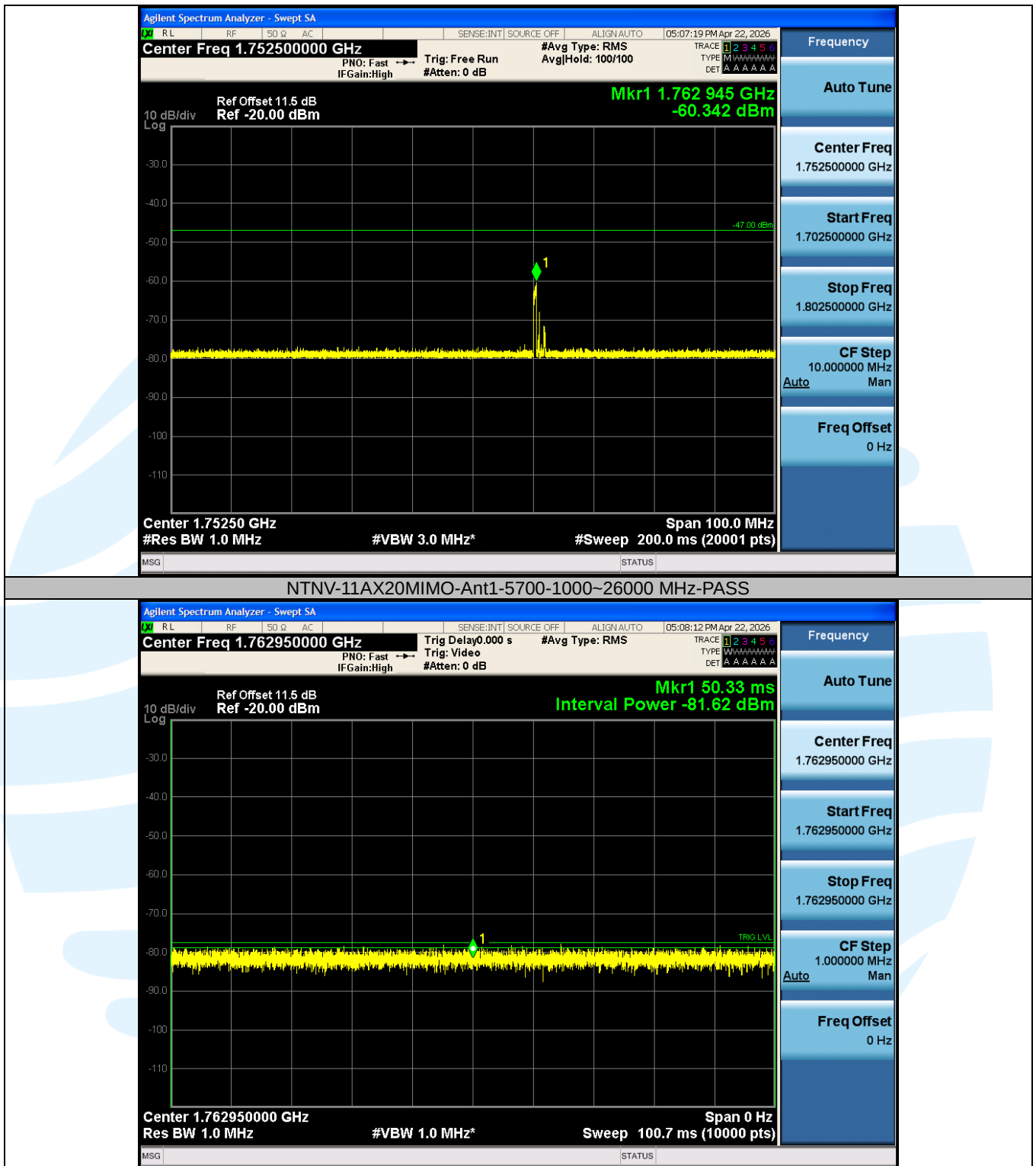
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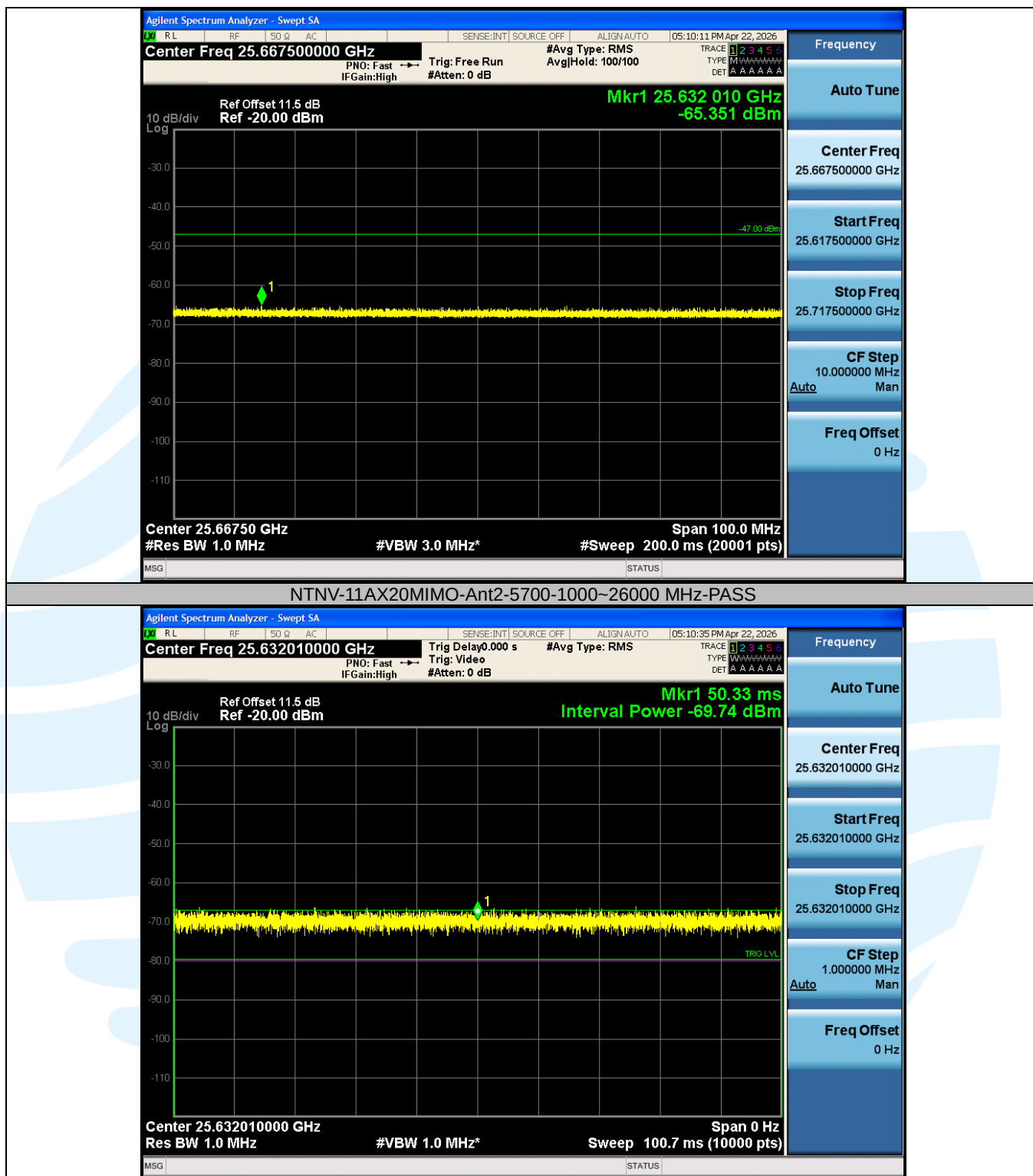
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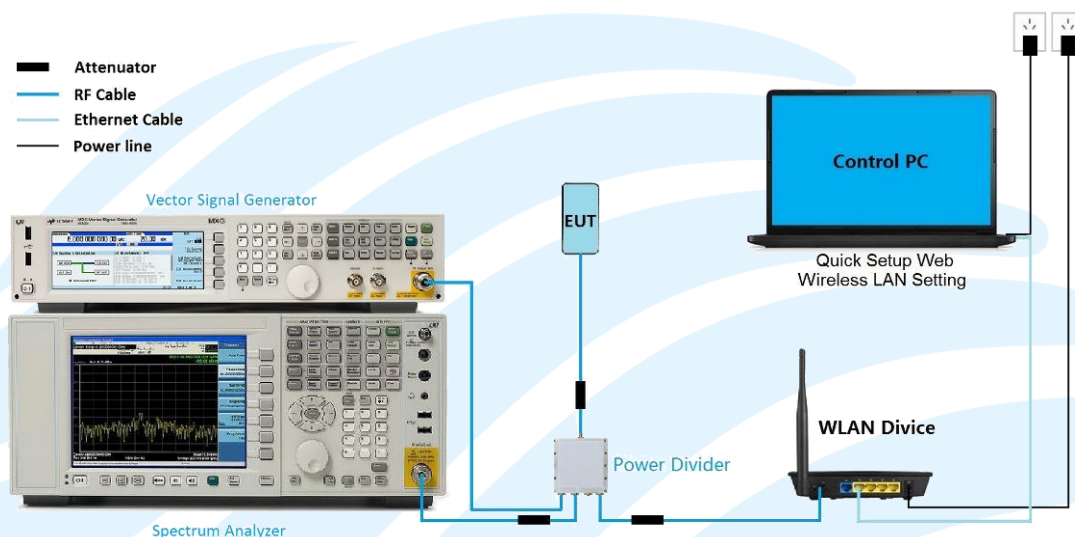
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5.11 CARRIER SENSE CAPABILITY

5.11.1 Limit

The radio equipment connected to telecommunication circuit equipment shall be equipped with a device which detects emissions radiated from another radio station and prevents interference, or a device which prevents interference by operation on a receive signal and a signal for diffusion for signal level detection.

5.11.2 Test Setup



5.11.3 Instruments Used

Refer to section 3 for details

5.11.4 Test Procedures

1. Turn the standard signal generator output OFF. Leave the equipment under test to be ready for transmission and verify the transmission with the spectrum analyzer.
2. Set the equipment under test to the receiving state.
3. Turn the standard signal generator ON and leave the equipment under test to be ready for transmission and verify with the spectrum analyzer that no transmission is being made.

5.11.5 Result

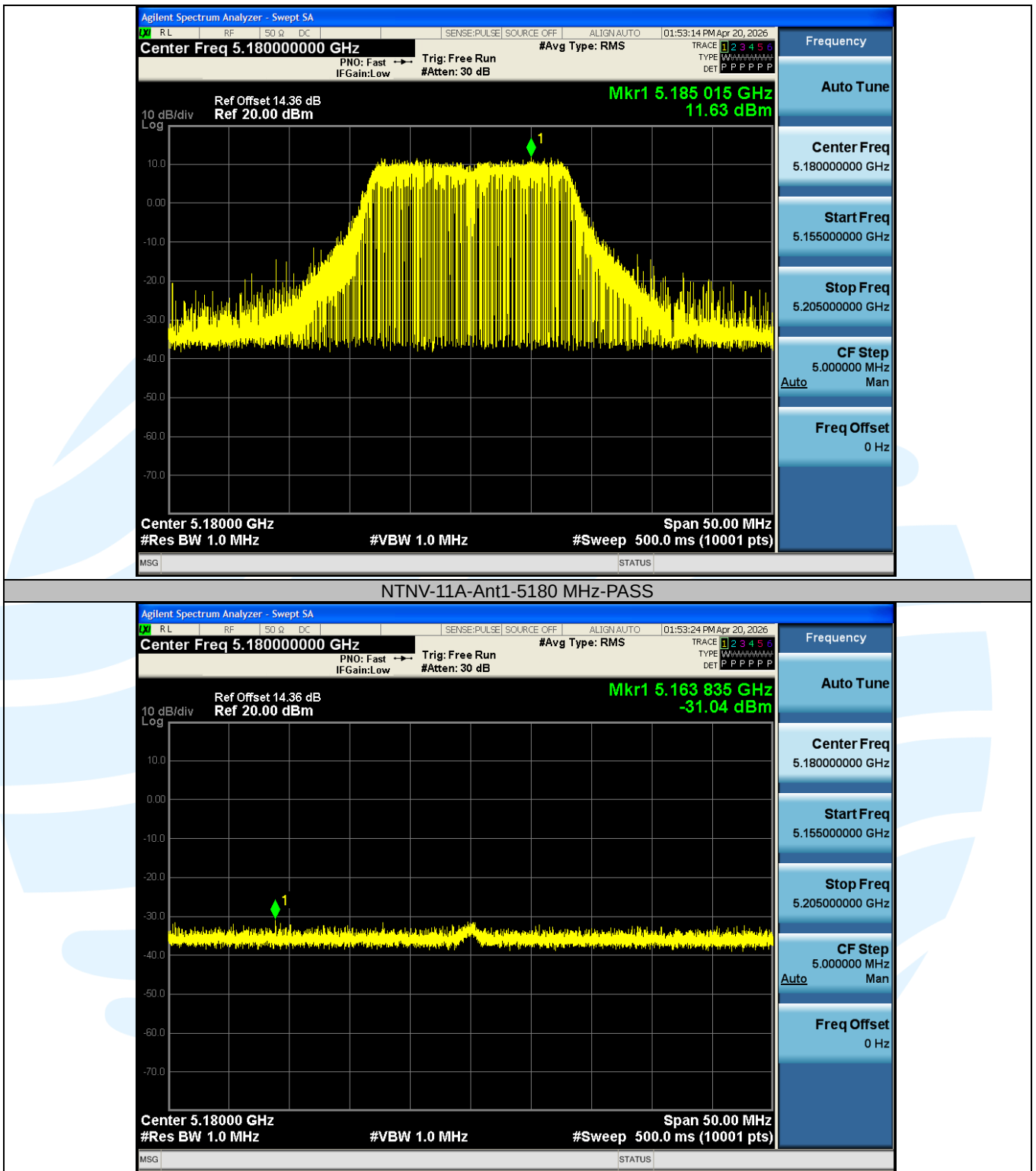
Test Condition	Test Mode	Antenna	Frequency [MHz]	Pcs [dBm]	Result	Verdict
NTNV	11A	Ant1	5180	-50.64	Good	PASS
NTNV	11A	Ant1	5260	-51.07	Good	PASS
NTNV	11A	Ant1	5500	-50.13	Good	PASS
NTNV	11N20SISO	Ant1	5180	-50.64	Good	PASS
NTNV	11N20SISO	Ant1	5260	-51.07	Good	PASS
NTNV	11N20SISO	Ant1	5500	-50.13	Good	PASS
NTNV	11N40SISO	Ant1	5190	-50.65	Good	PASS
NTNV	11N40SISO	Ant1	5270	-51.09	Good	PASS
NTNV	11N40SISO	Ant1	5510	-50.14	Good	PASS
NTNV	11AC20SISO	Ant1	5180	-50.64	Good	PASS
NTNV	11AC20SISO	Ant1	5260	-51.07	Good	PASS
NTNV	11AC20SISO	Ant1	5500	-50.13	Good	PASS
NTNV	11AC40SISO	Ant1	5190	-50.65	Good	PASS
NTNV	11AC40SISO	Ant1	5270	-51.09	Good	PASS
NTNV	11AC40SISO	Ant1	5510	-50.14	Good	PASS
NTNV	11AC80SISO	Ant1	5210	-50.69	Good	PASS
NTNV	11AC80SISO	Ant1	5290	-51.12	Good	PASS
NTNV	11AC80SISO	Ant1	5530	-50.17	Good	PASS
NTNV	11AX20SISO	Ant1	5180	-50.64	Good	PASS
NTNV	11AX20SISO	Ant1	5260	-51.07	Good	PASS
NTNV	11AX20SISO	Ant1	5500	-50.13	Good	PASS
NTNV	11AX40SISO	Ant1	5190	-50.65	Good	PASS
NTNV	11AX40SISO	Ant1	5270	-51.09	Good	PASS
NTNV	11AX40SISO	Ant1	5510	-50.14	Good	PASS
NTNV	11AX80SISO	Ant1	5210	-50.69	Good	PASS
NTNV	11AX80SISO	Ant1	5290	-51.12	Good	PASS
NTNV	11AX80SISO	Ant1	5530	-50.17	Good	PASS

Note:

$Pcs (dBm) = 22.79 + G - 20\log(F)$.

G: Antenna gain (dBi).

F: Transmission frequency (MHz).



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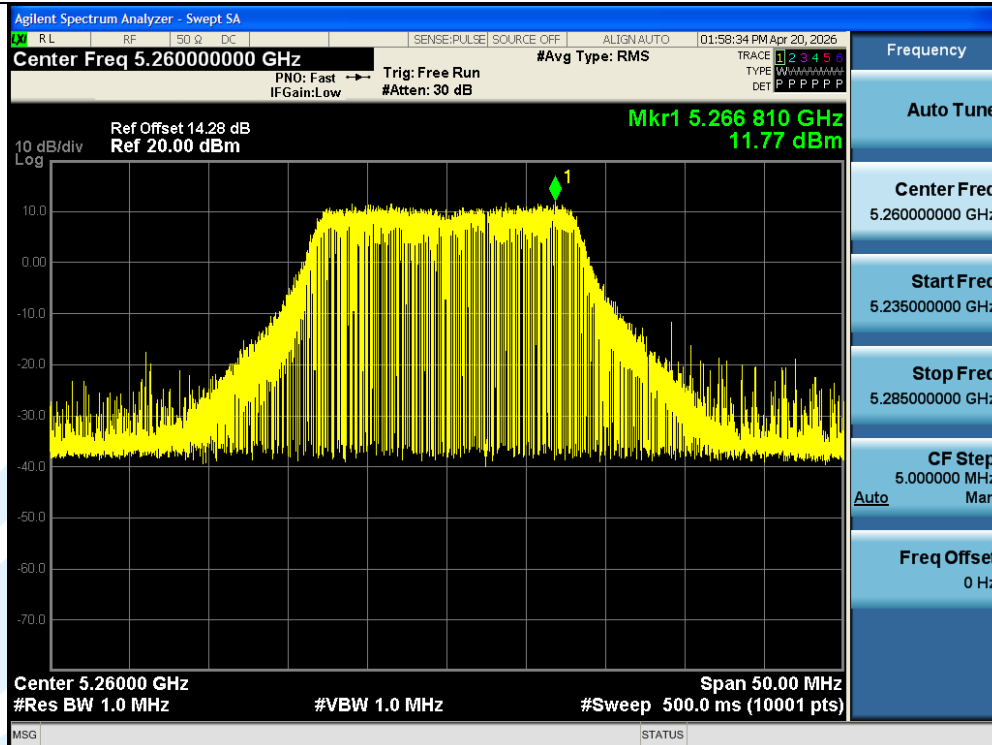
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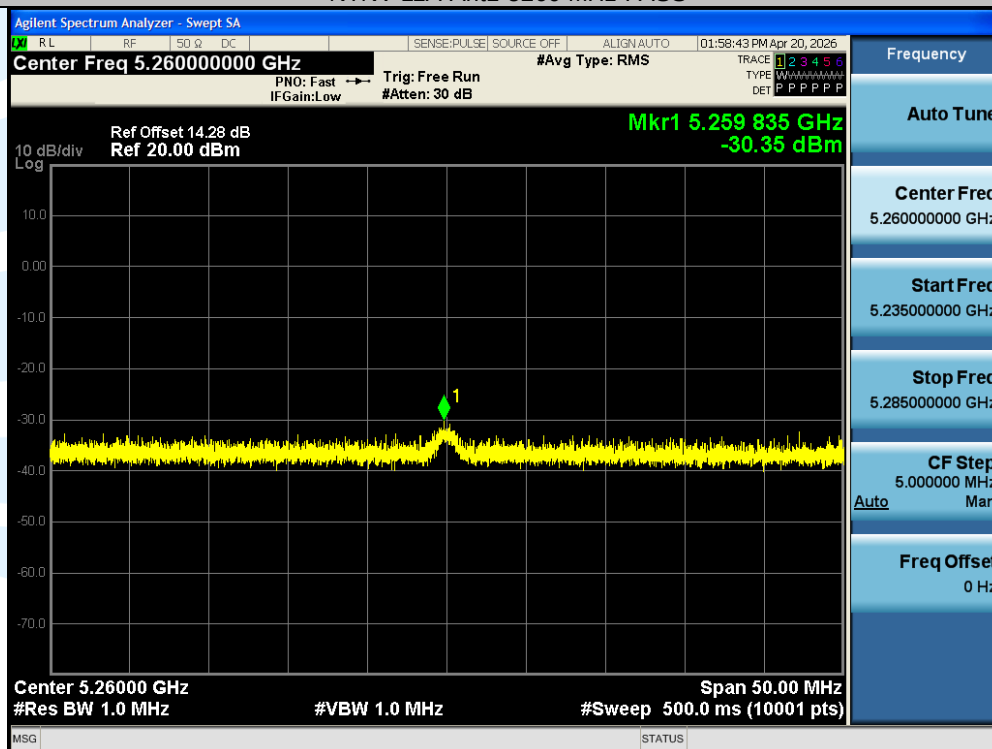
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NTNV-11A-Ant1-5260 MHz-PASS



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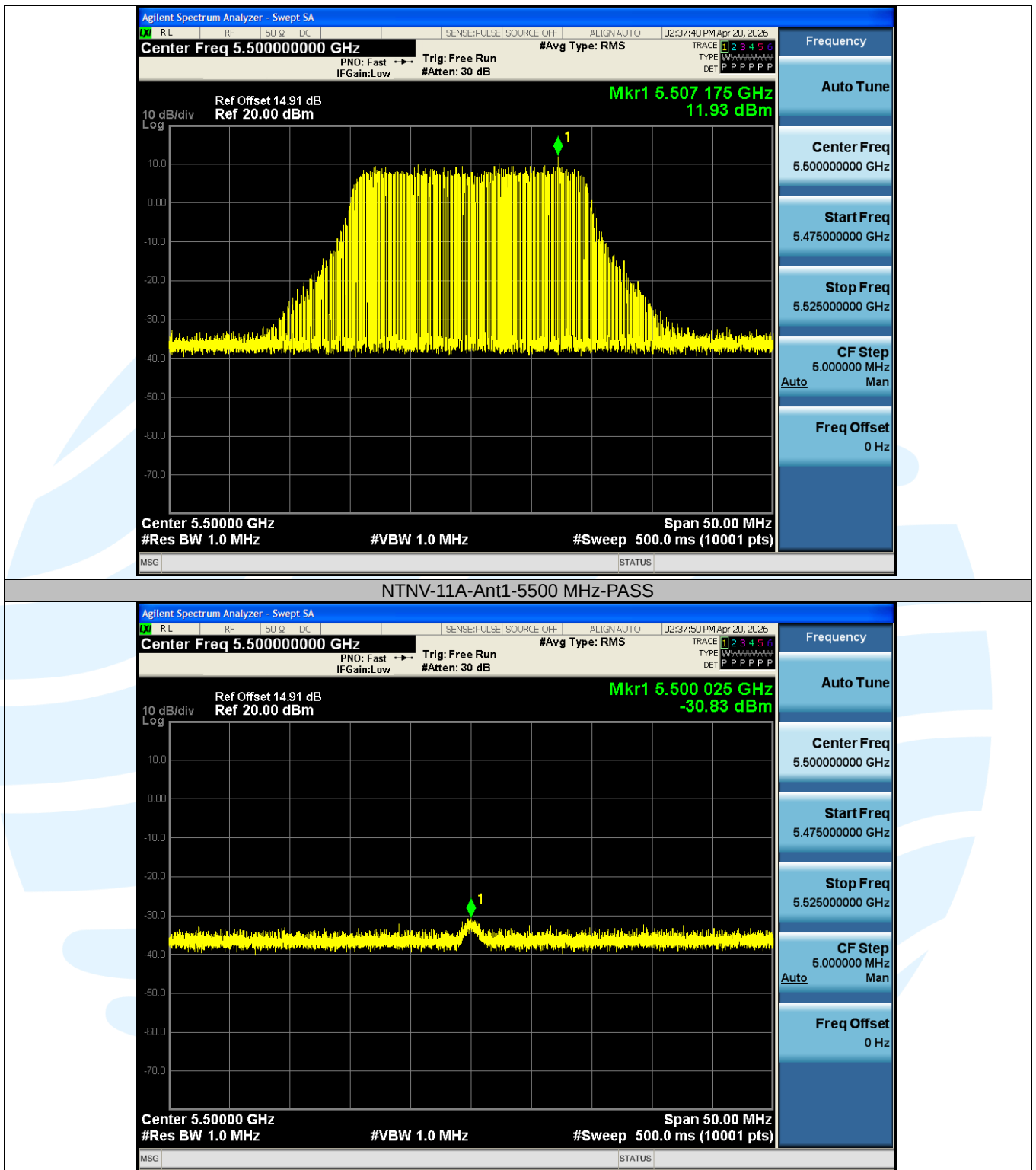
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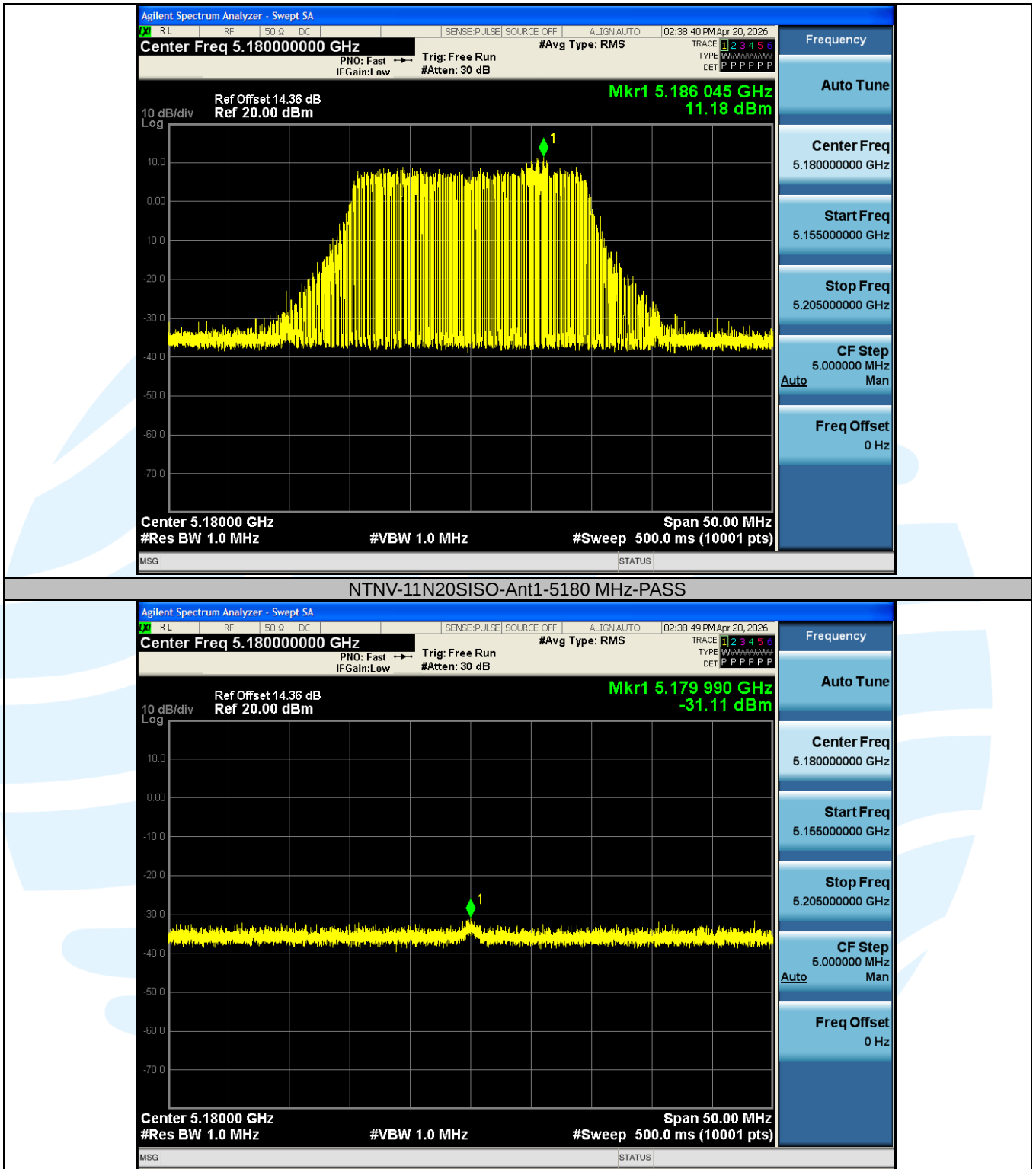
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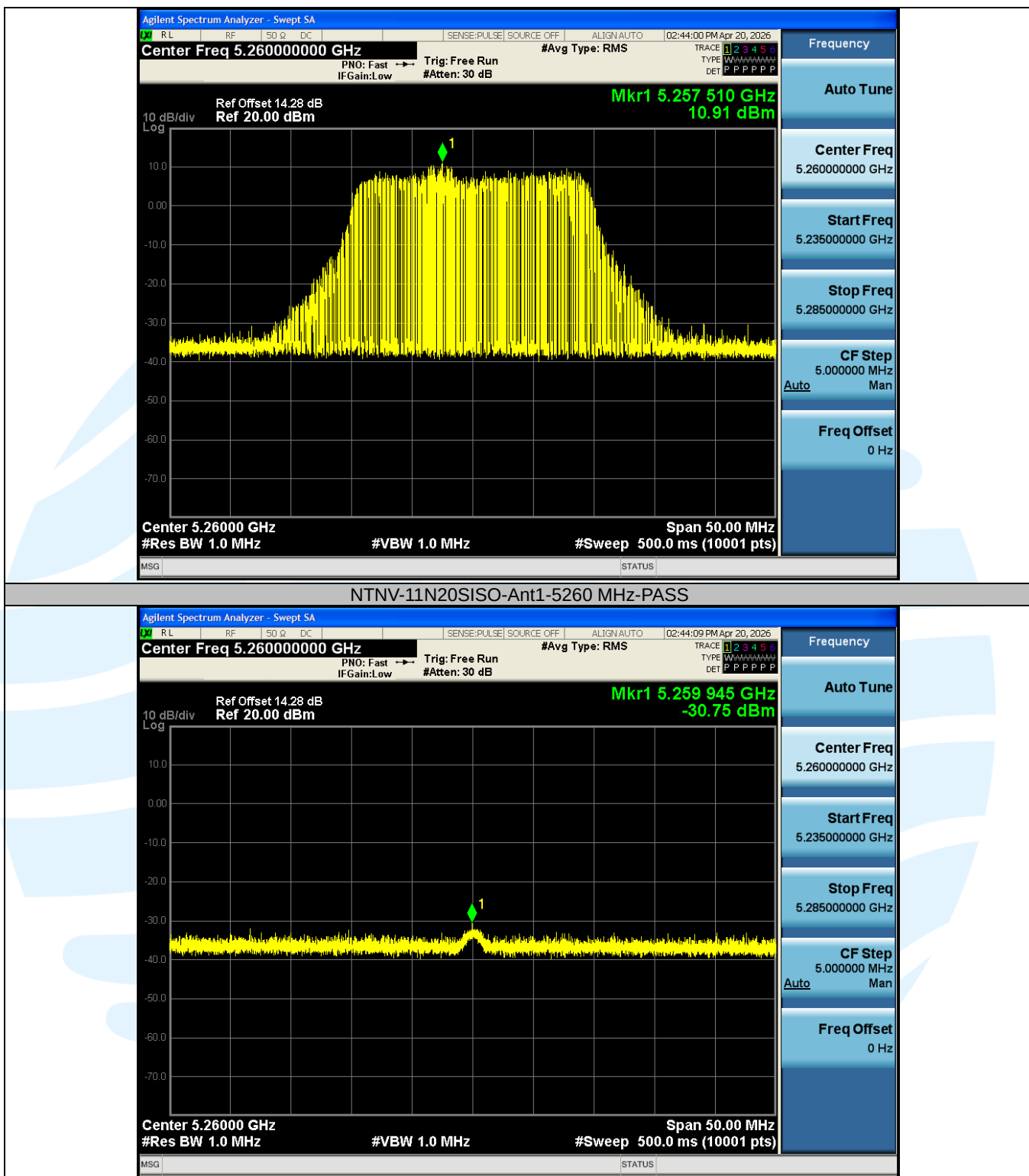
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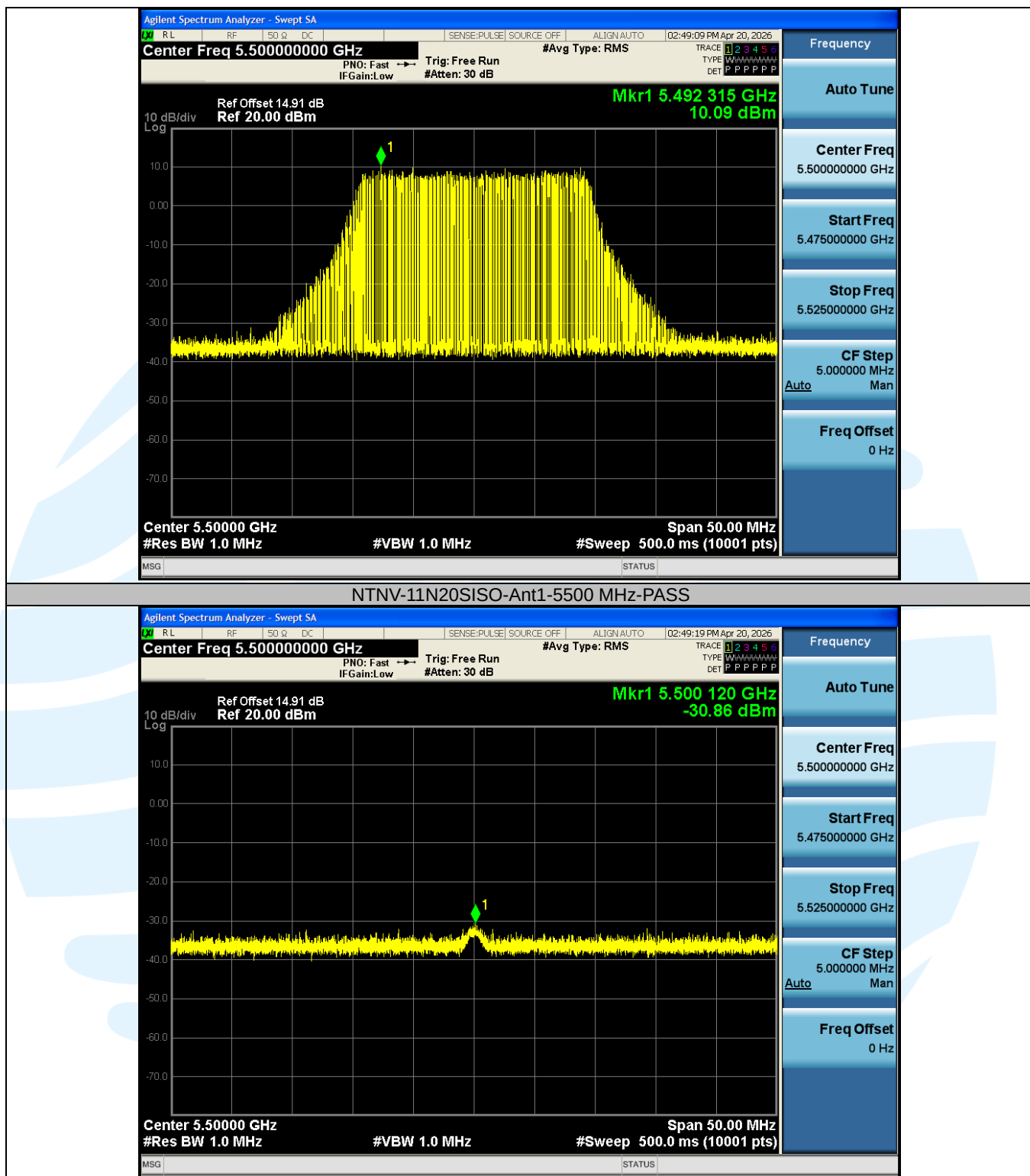
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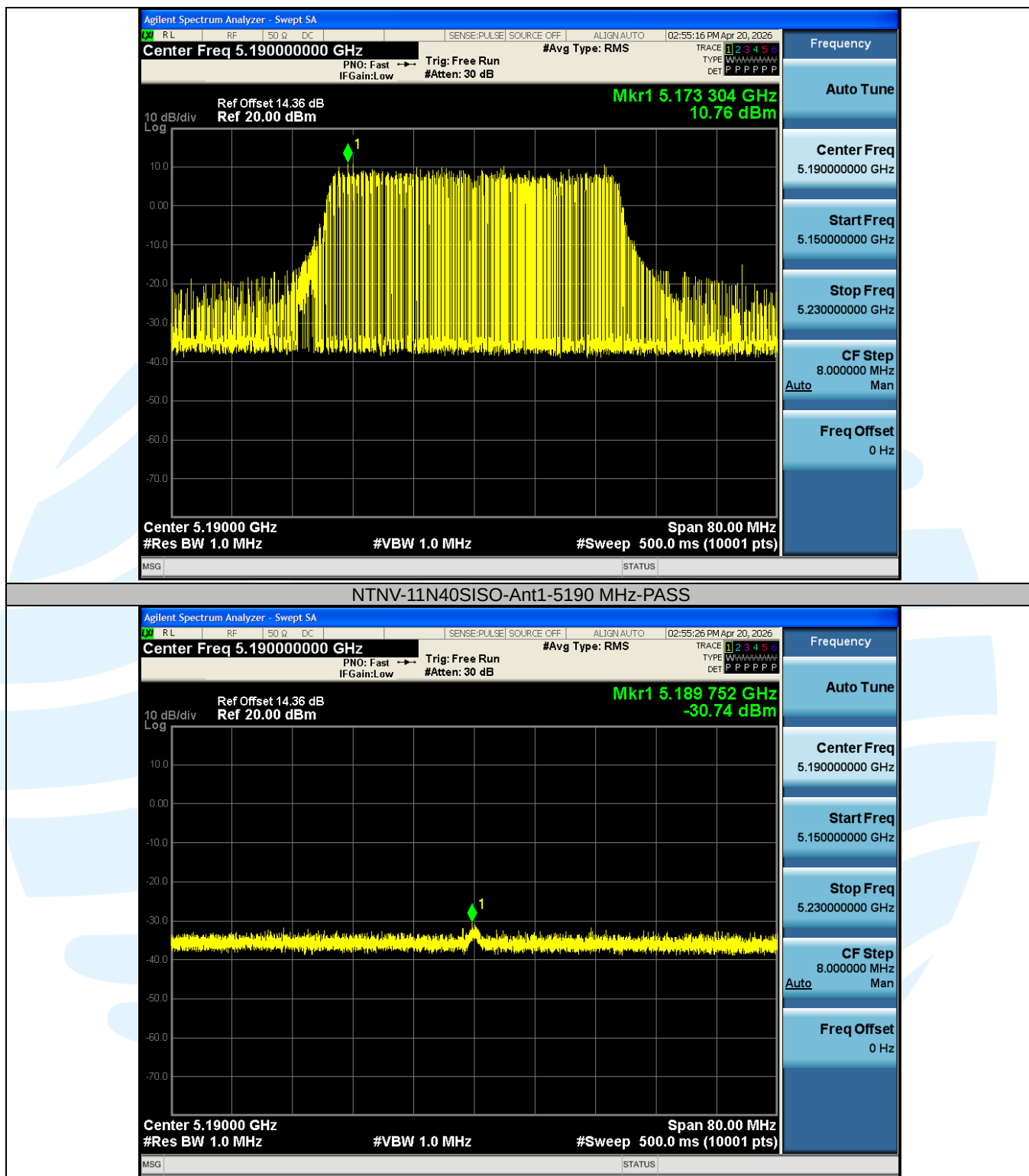
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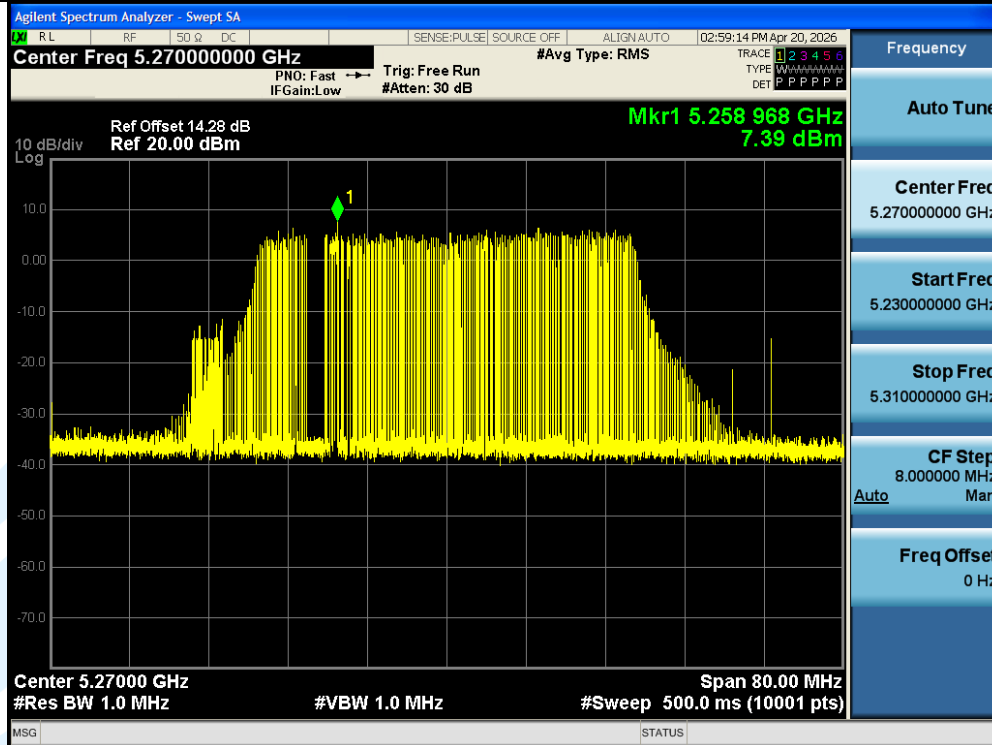
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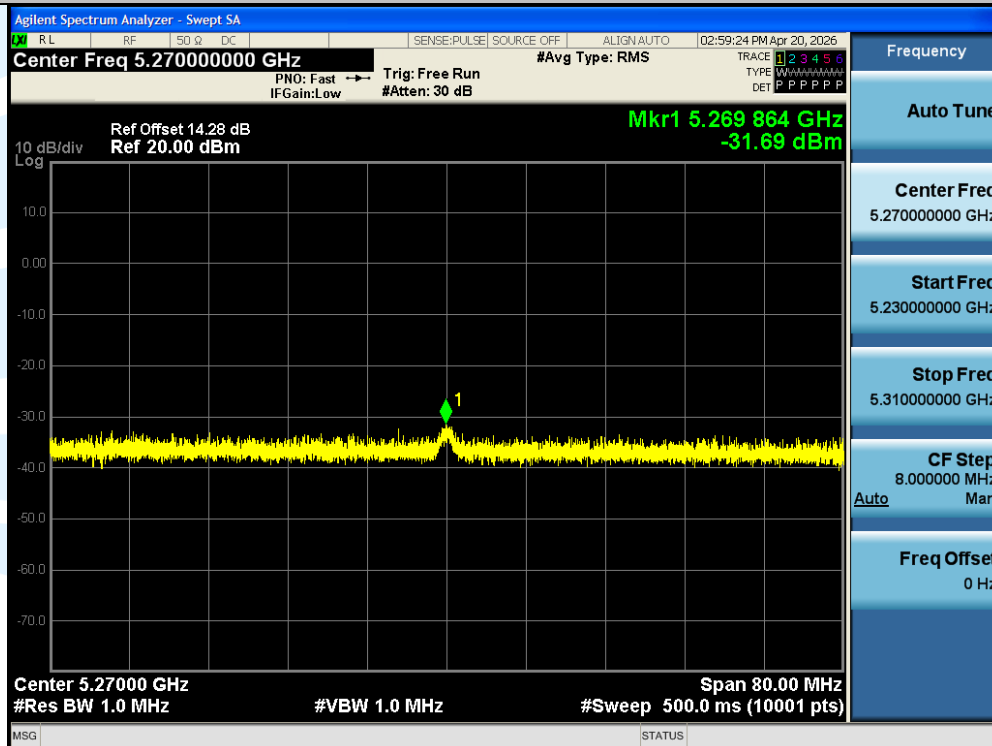
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NTNV-11N40SISO-Ant1-5270 MHz-PASS

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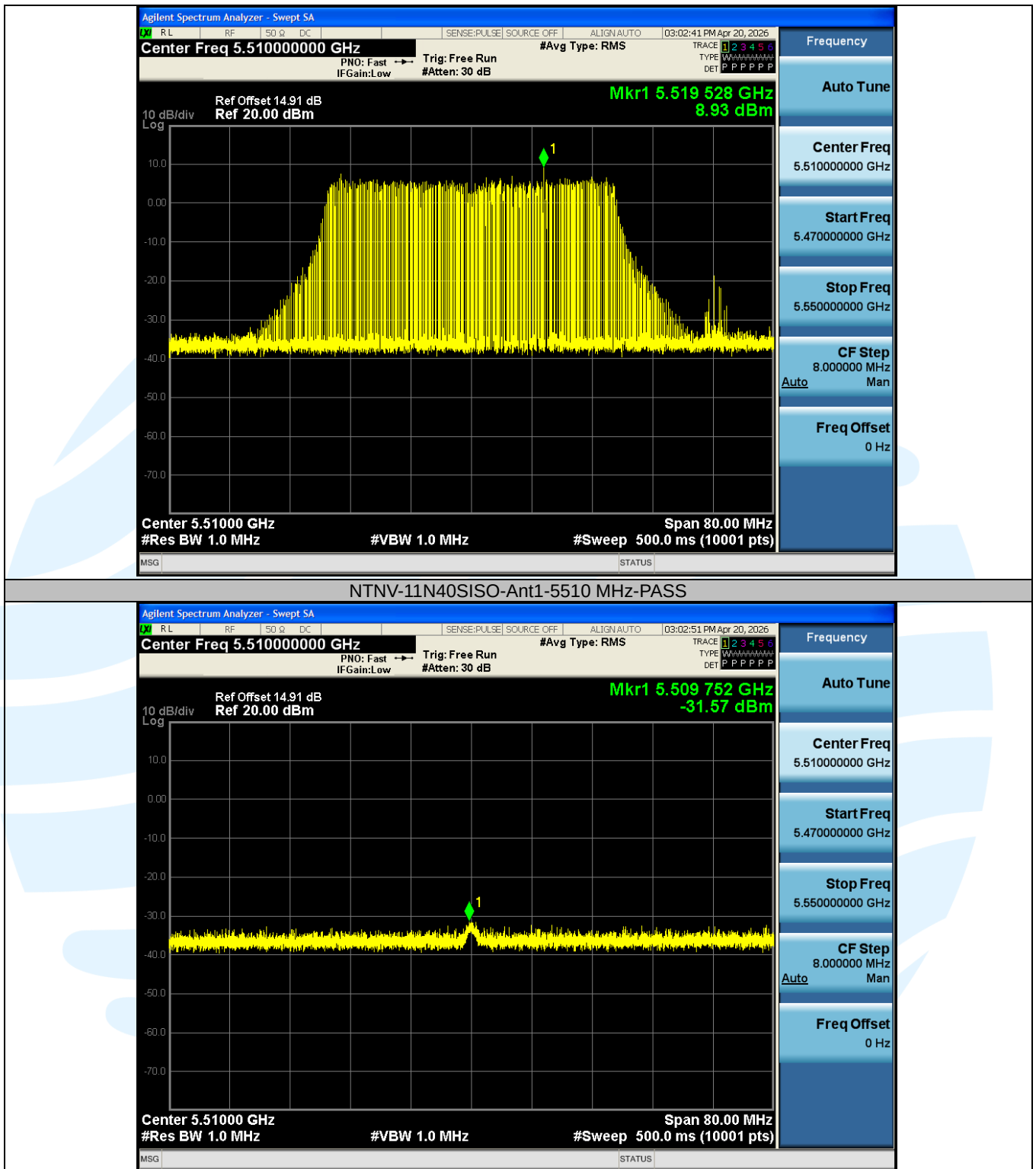
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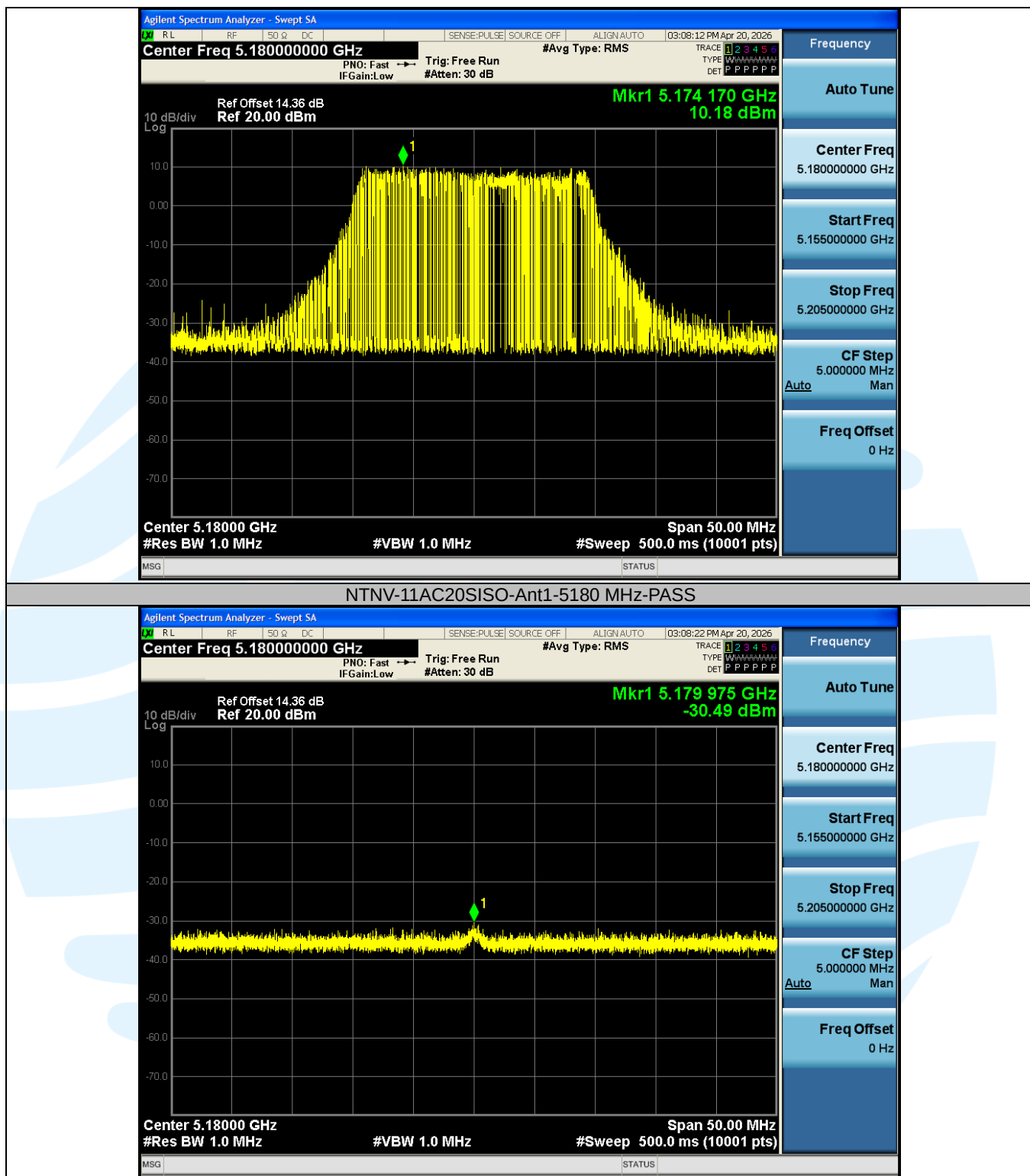
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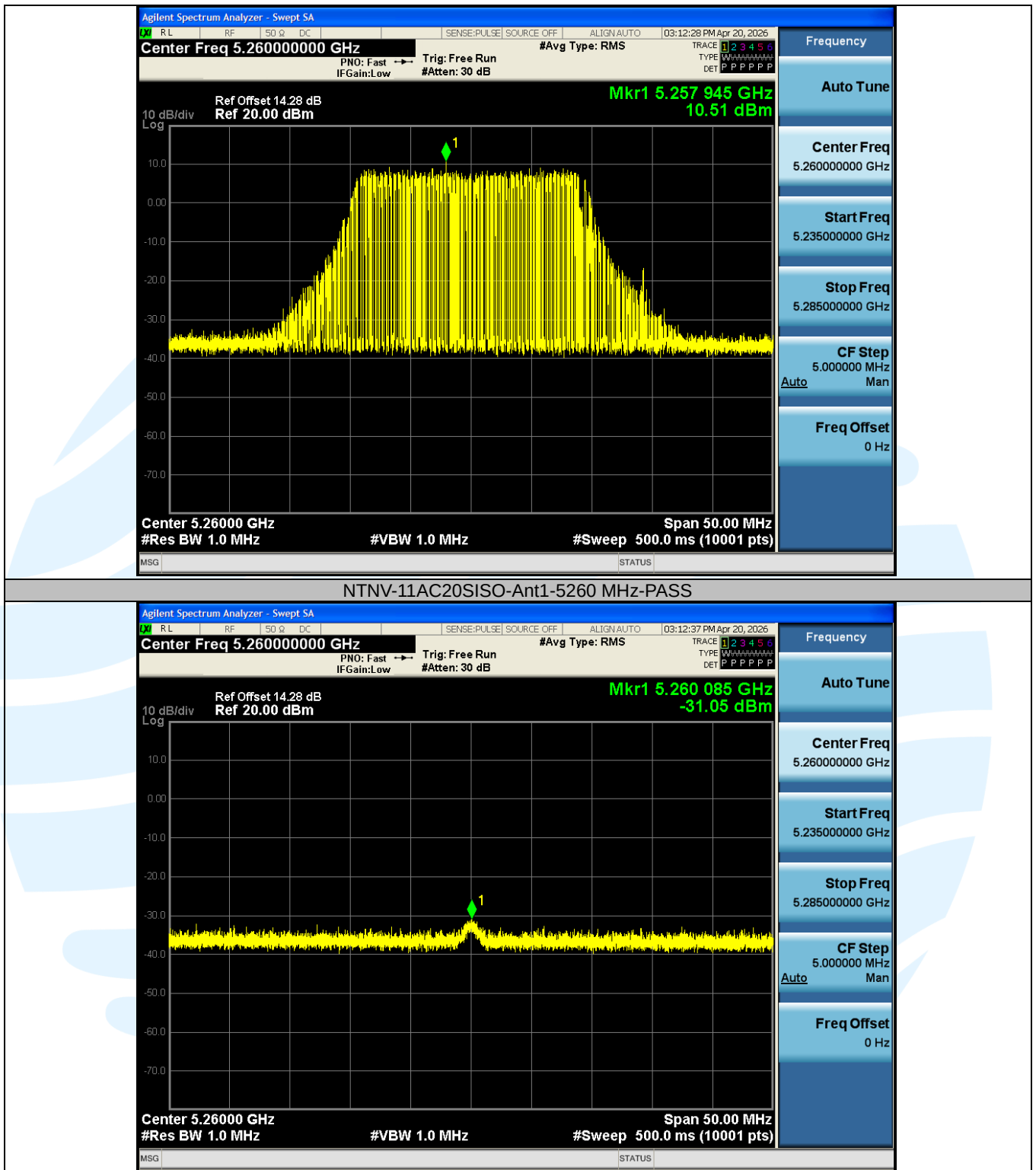
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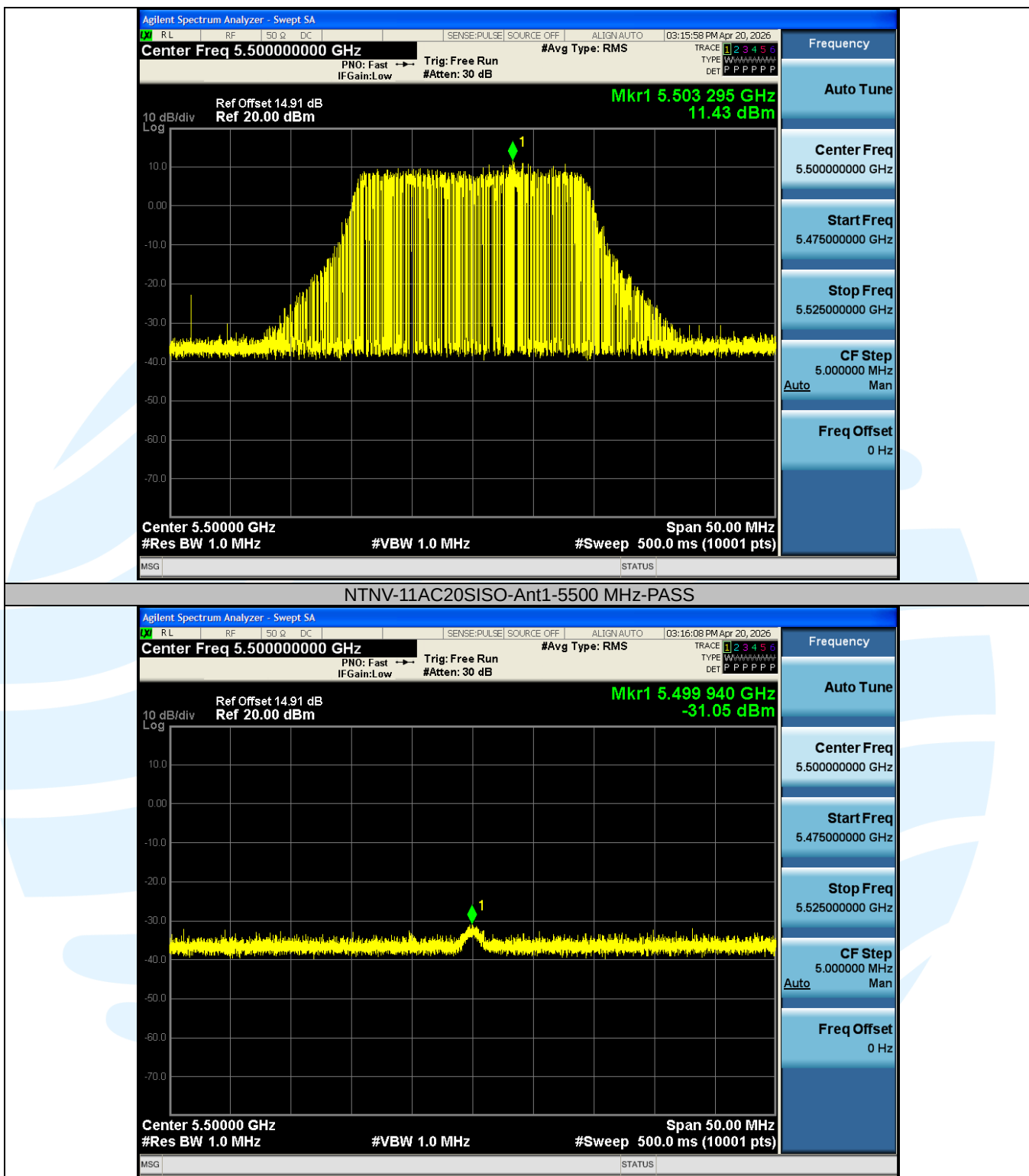
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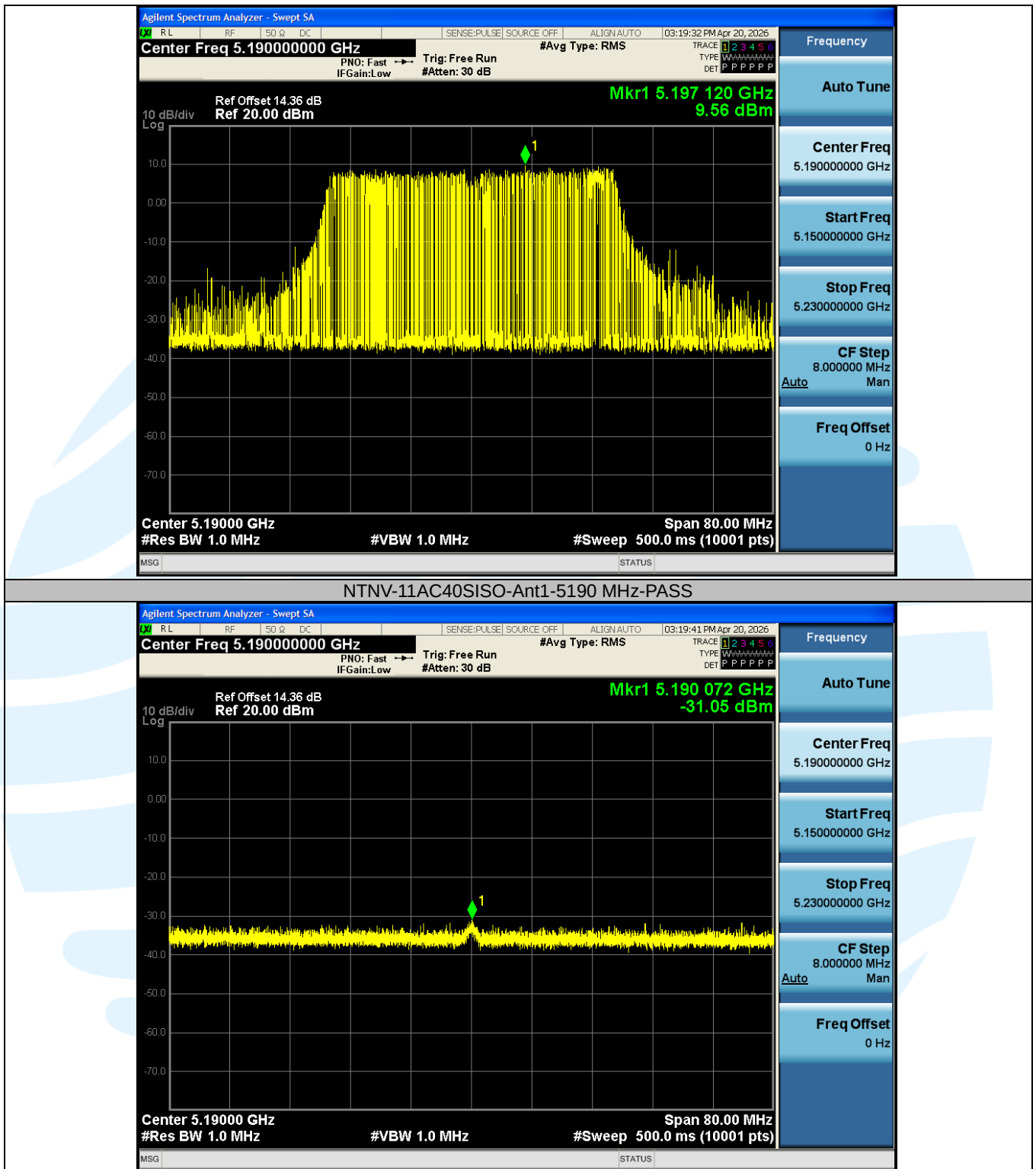
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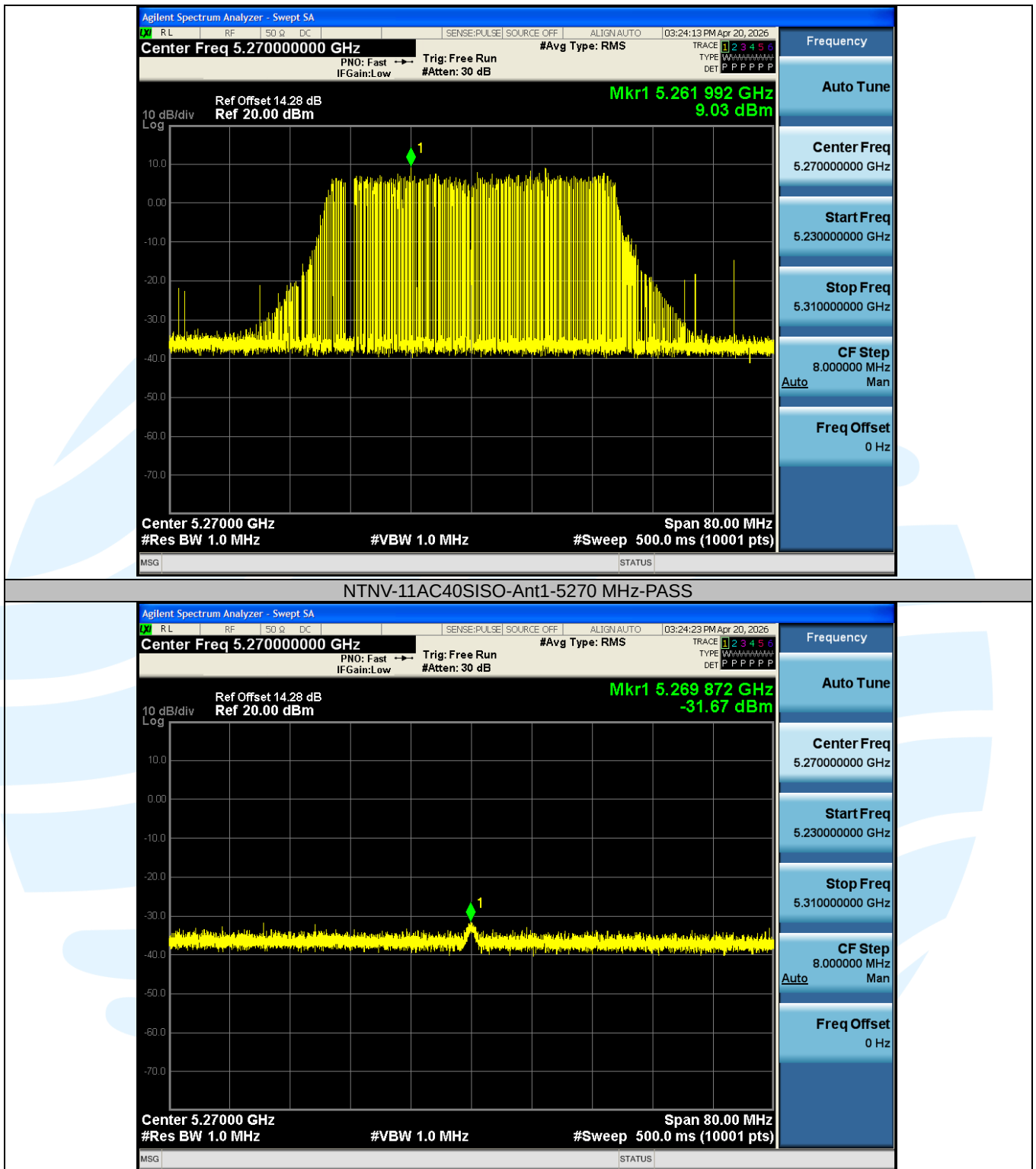
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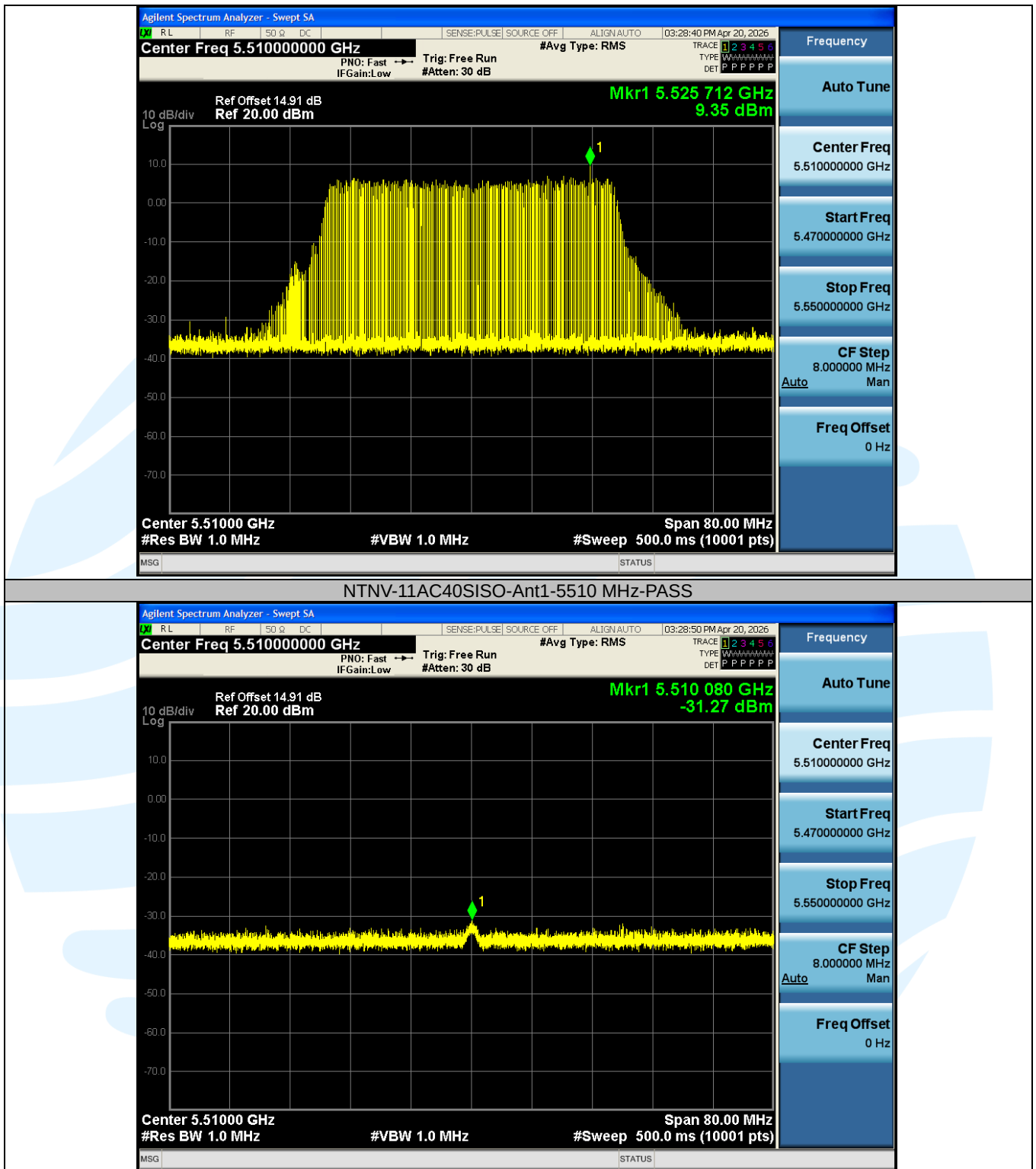
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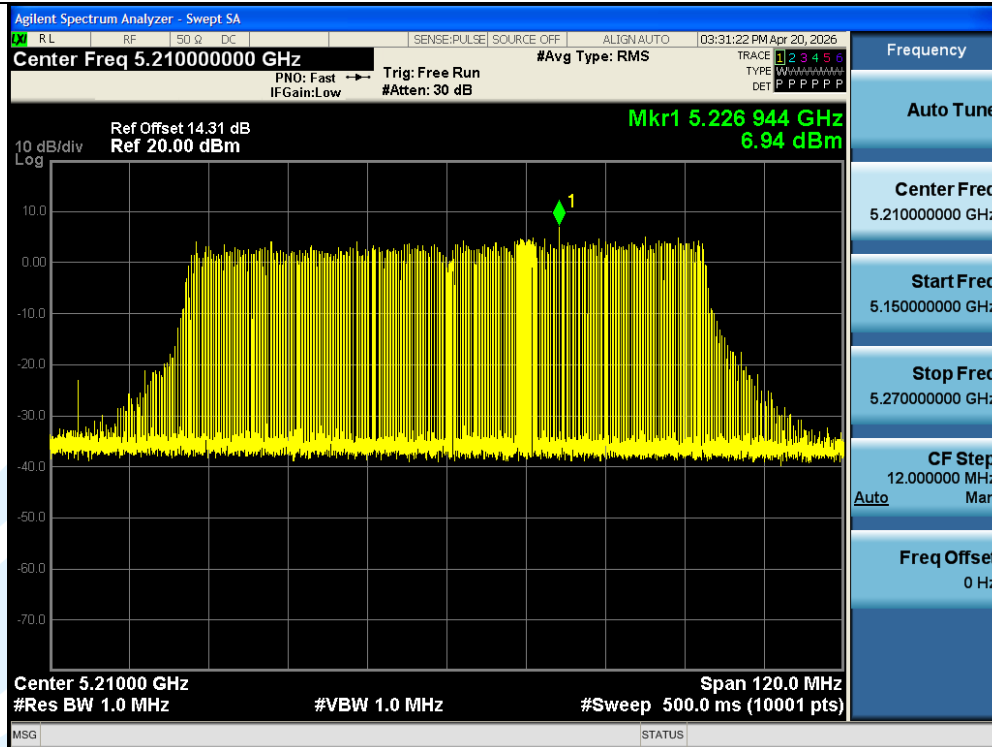
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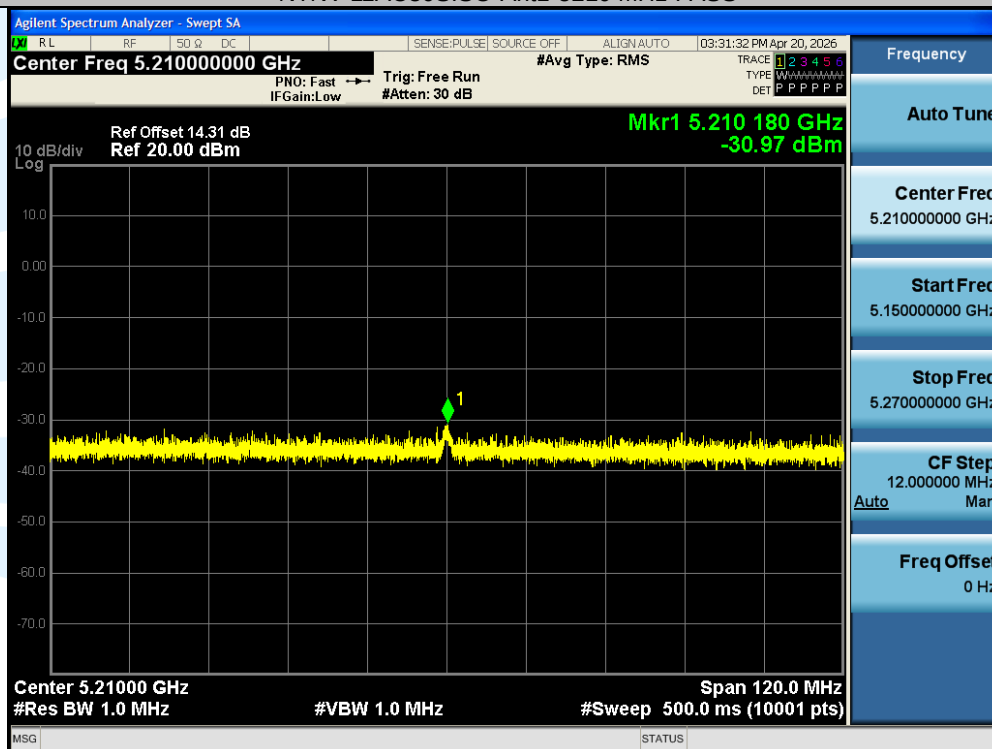
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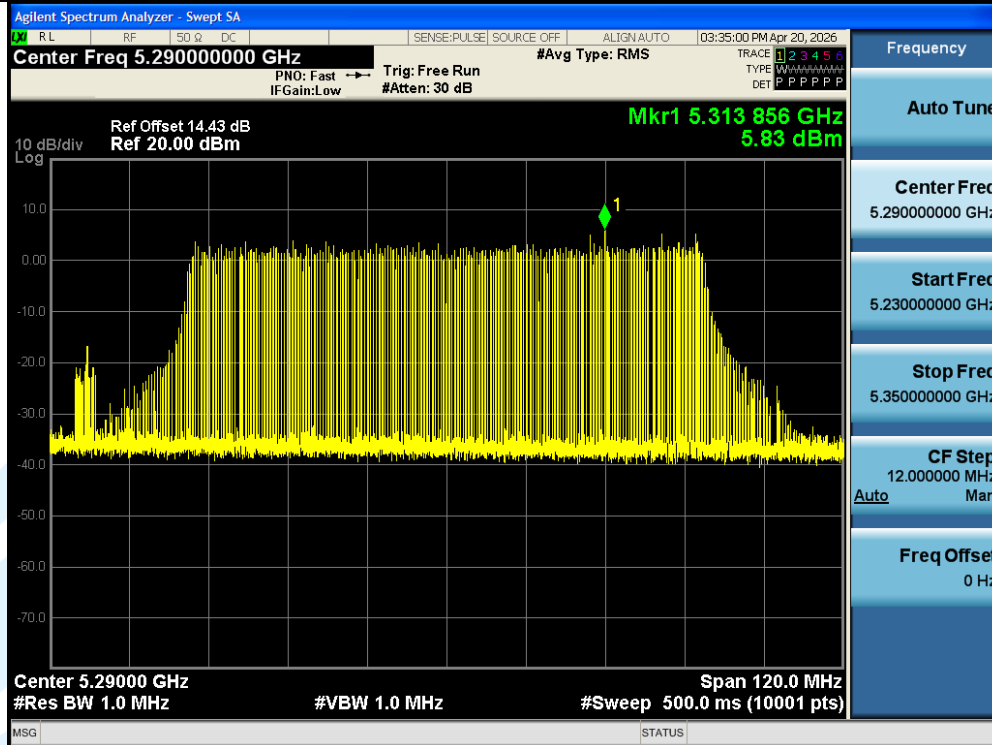
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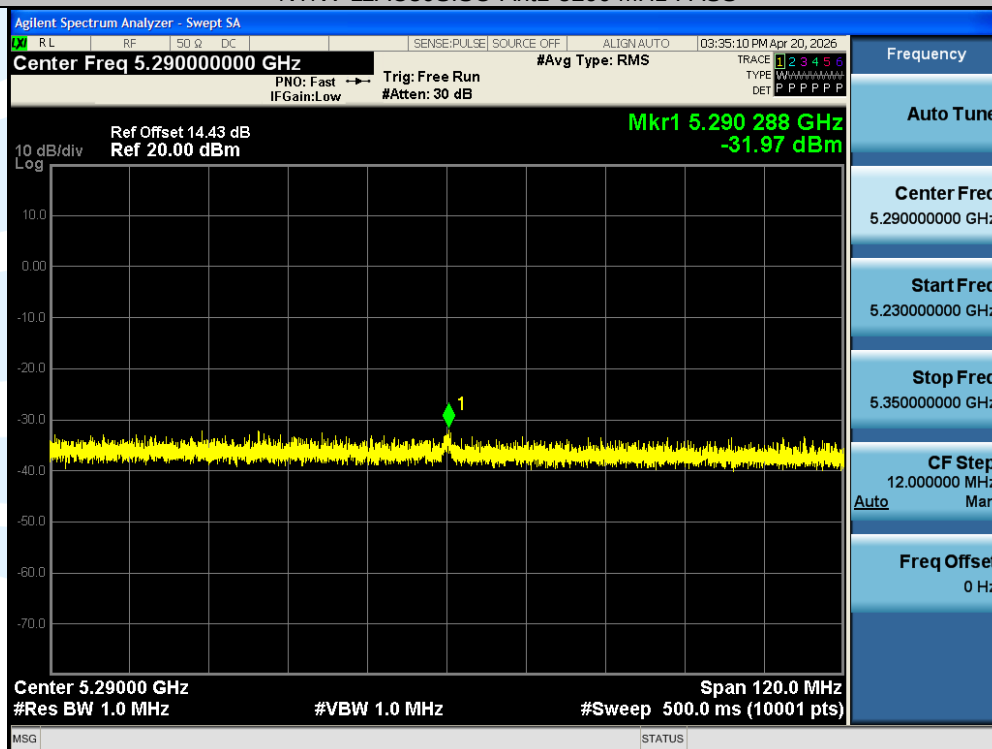
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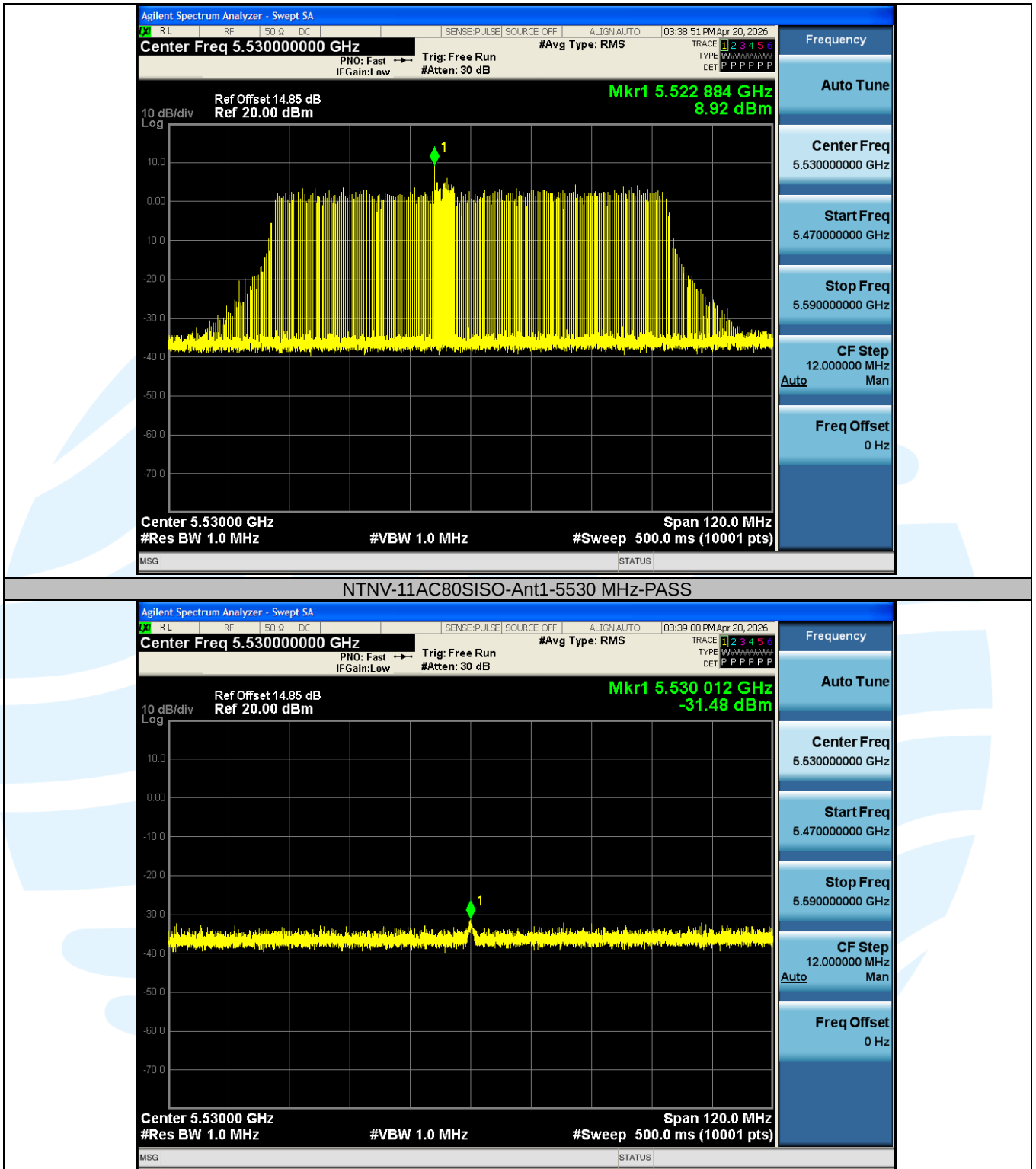
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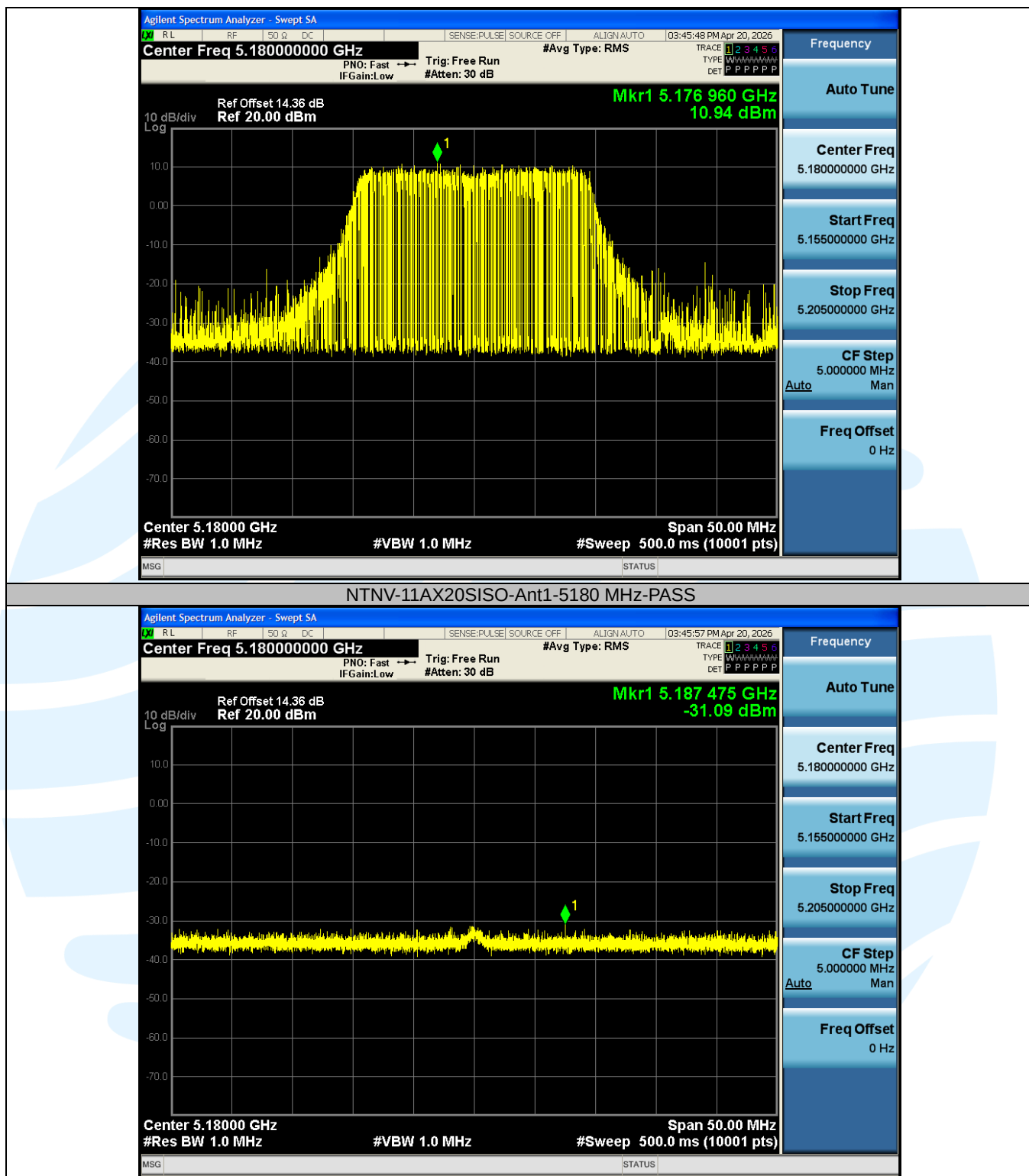
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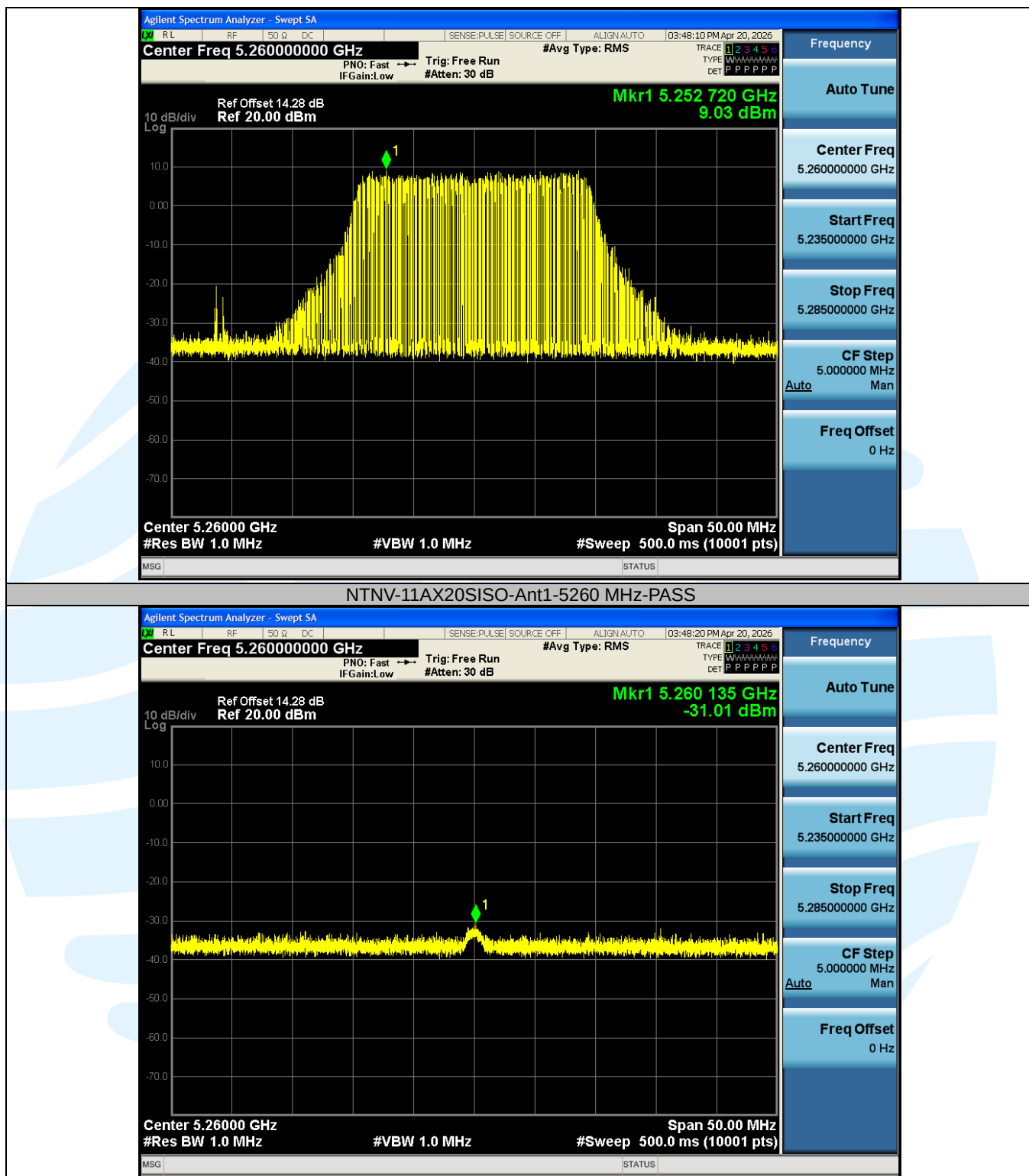
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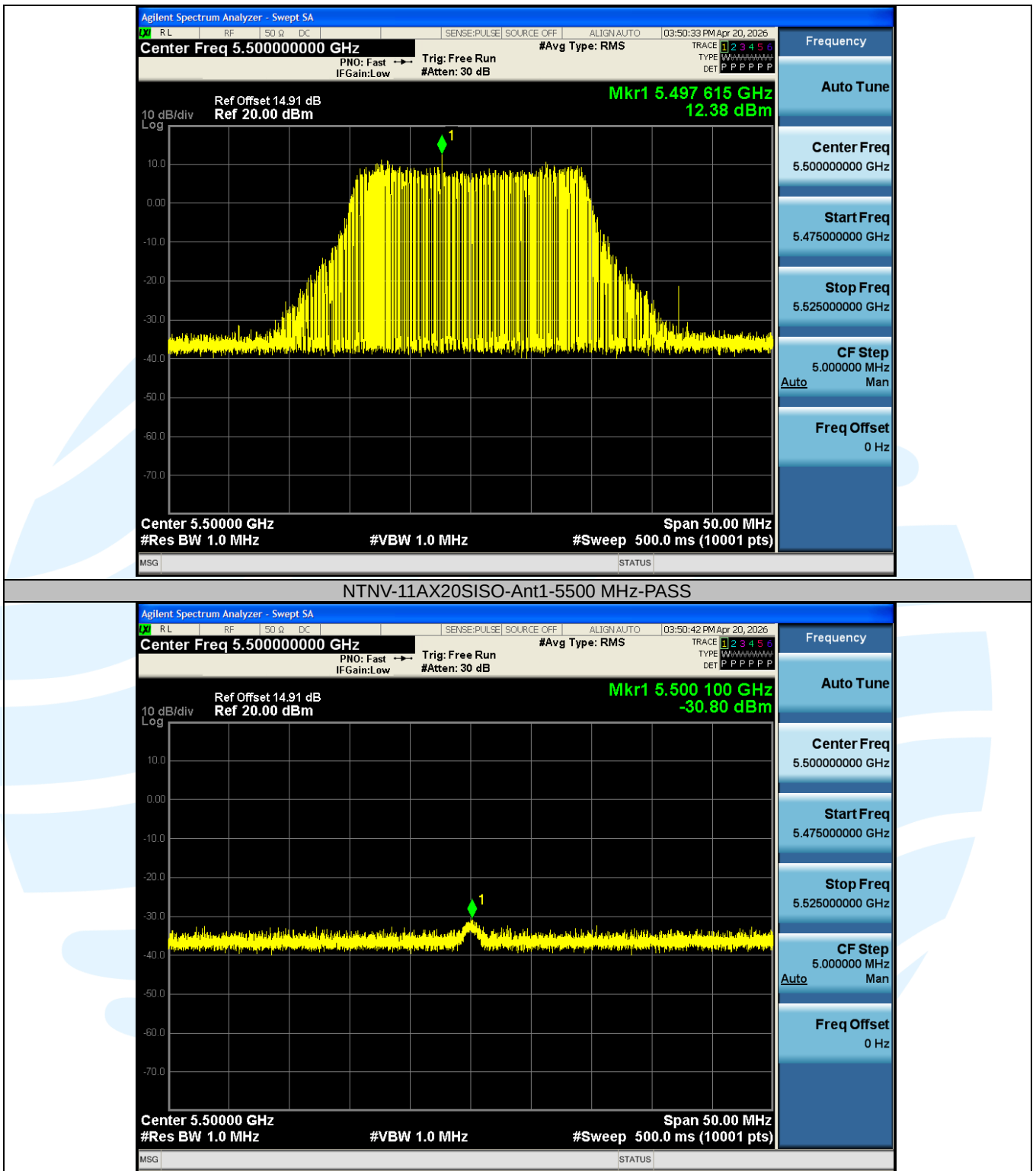
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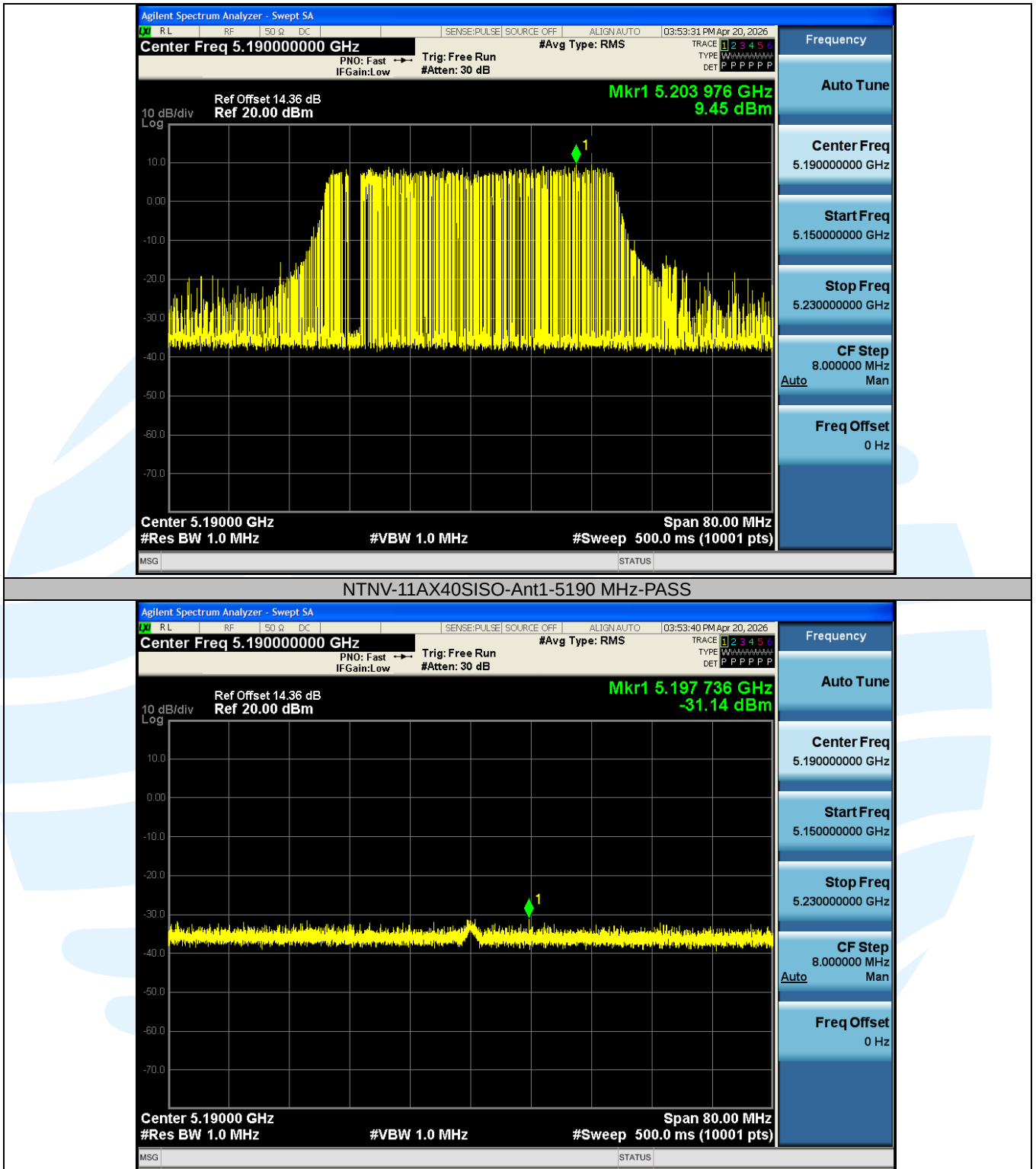
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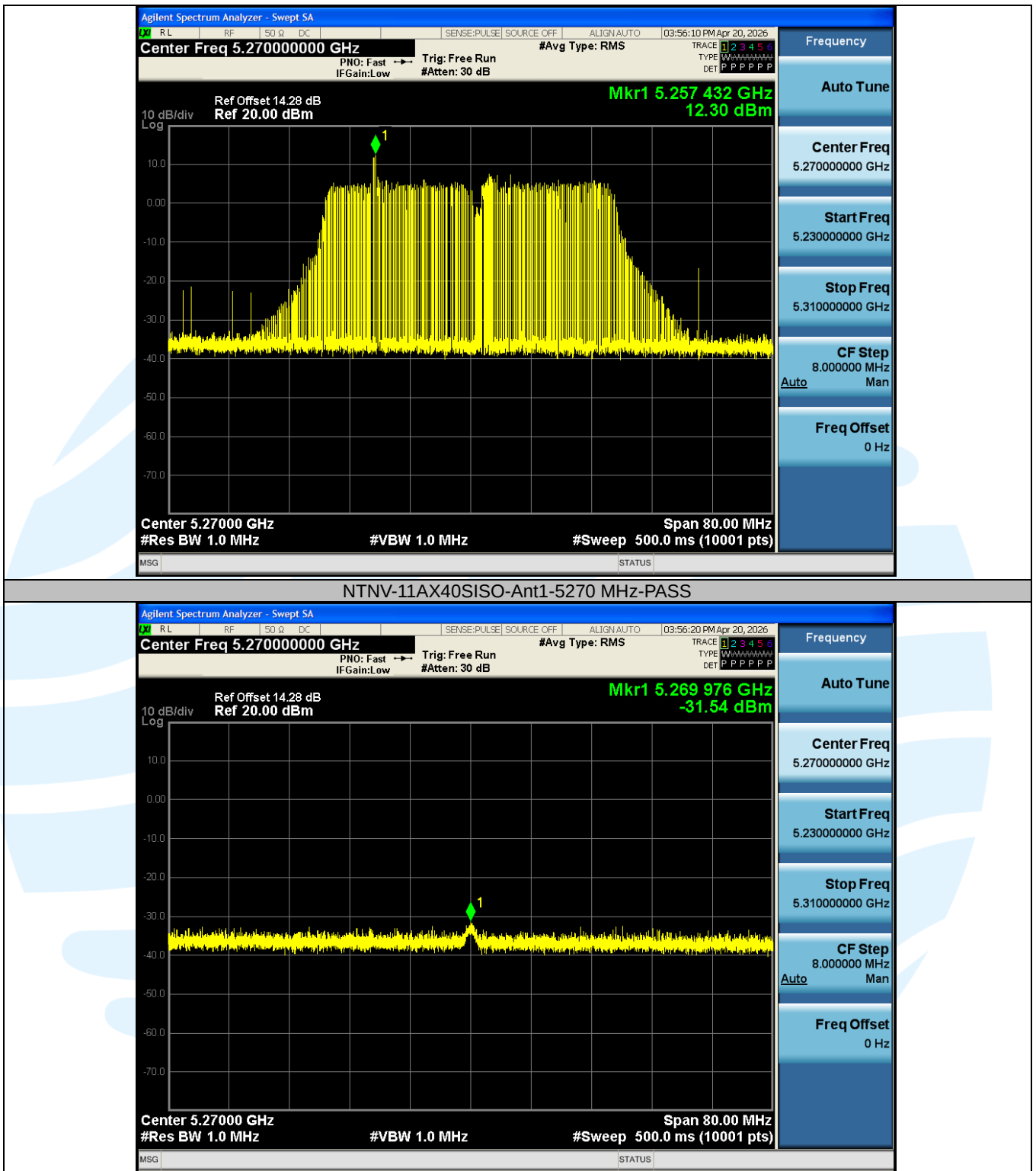
Tel: +86-755-28230888

Fax: +86-755-28230886

E-mail: info@uttlab.com

<http://www.uttlab.com>

UTTR-RF-STDT71-V1.1



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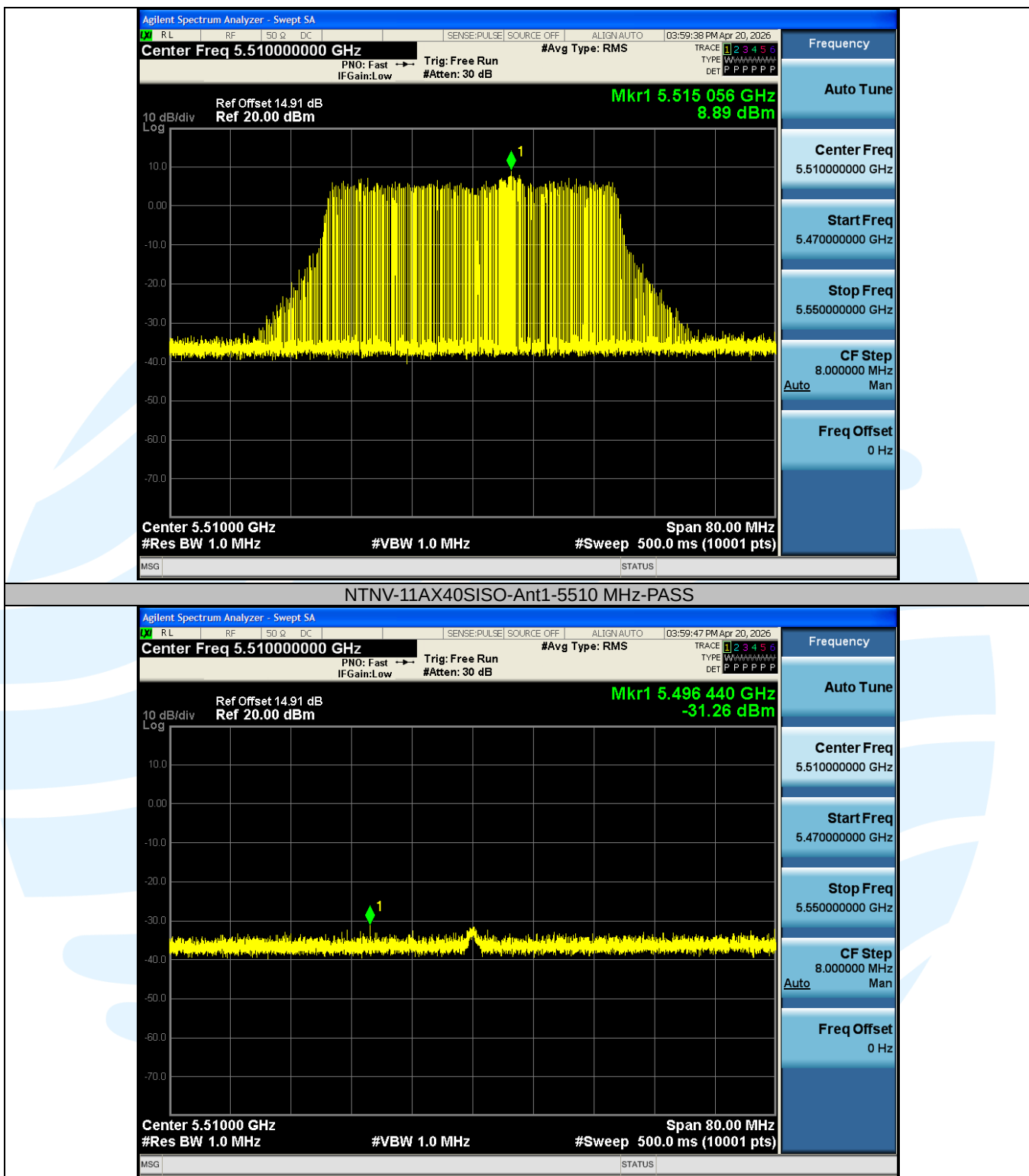
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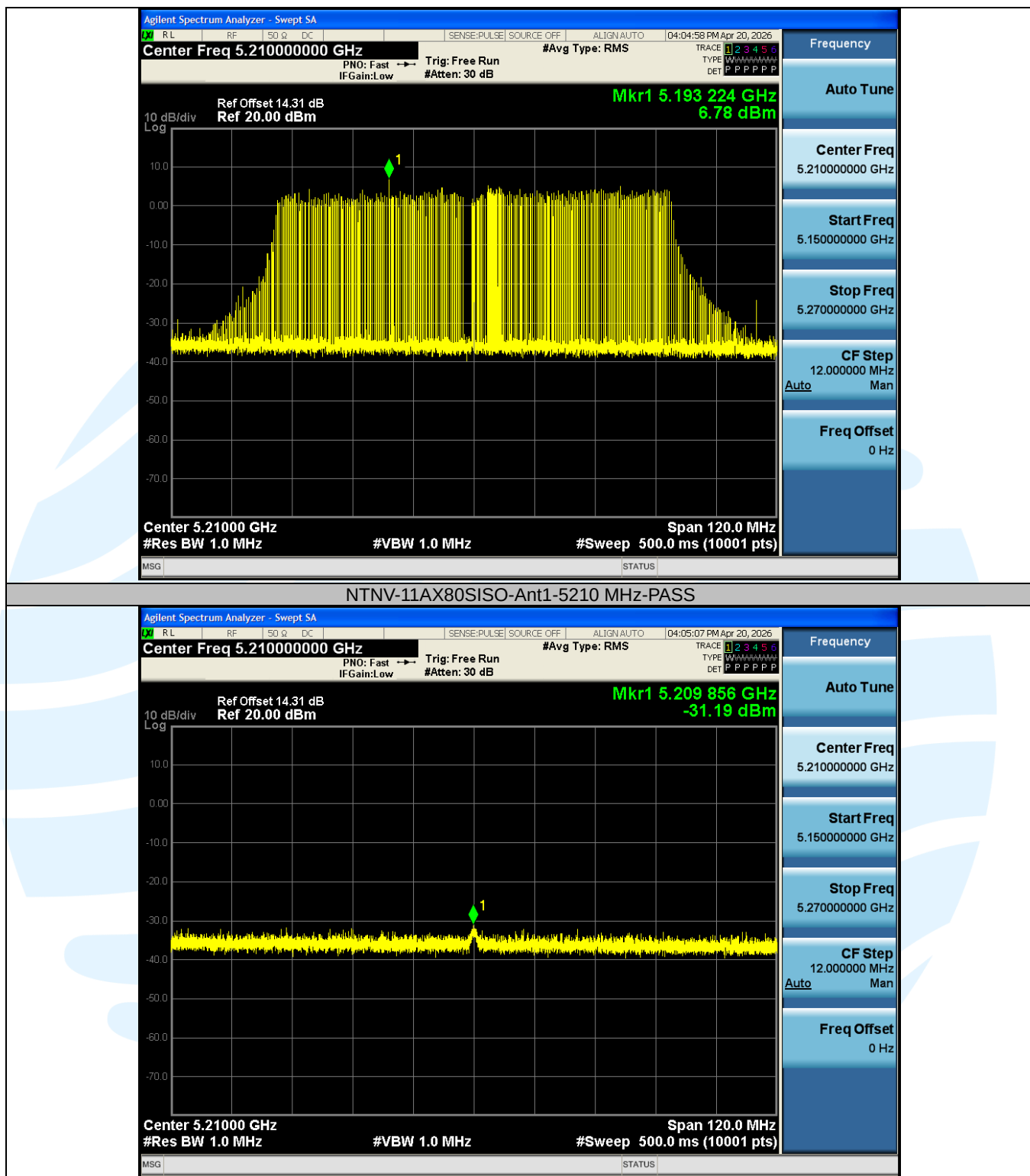
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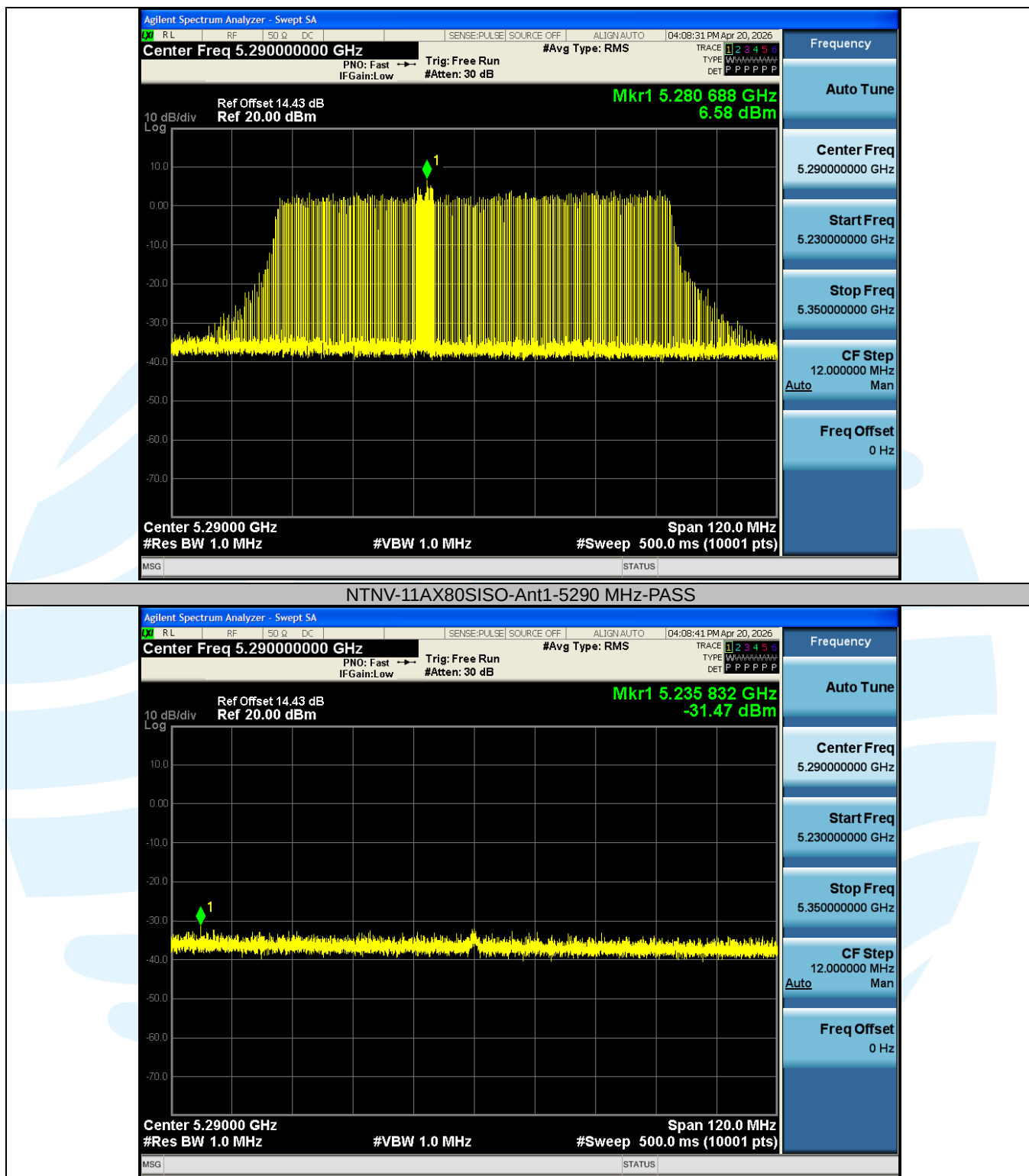
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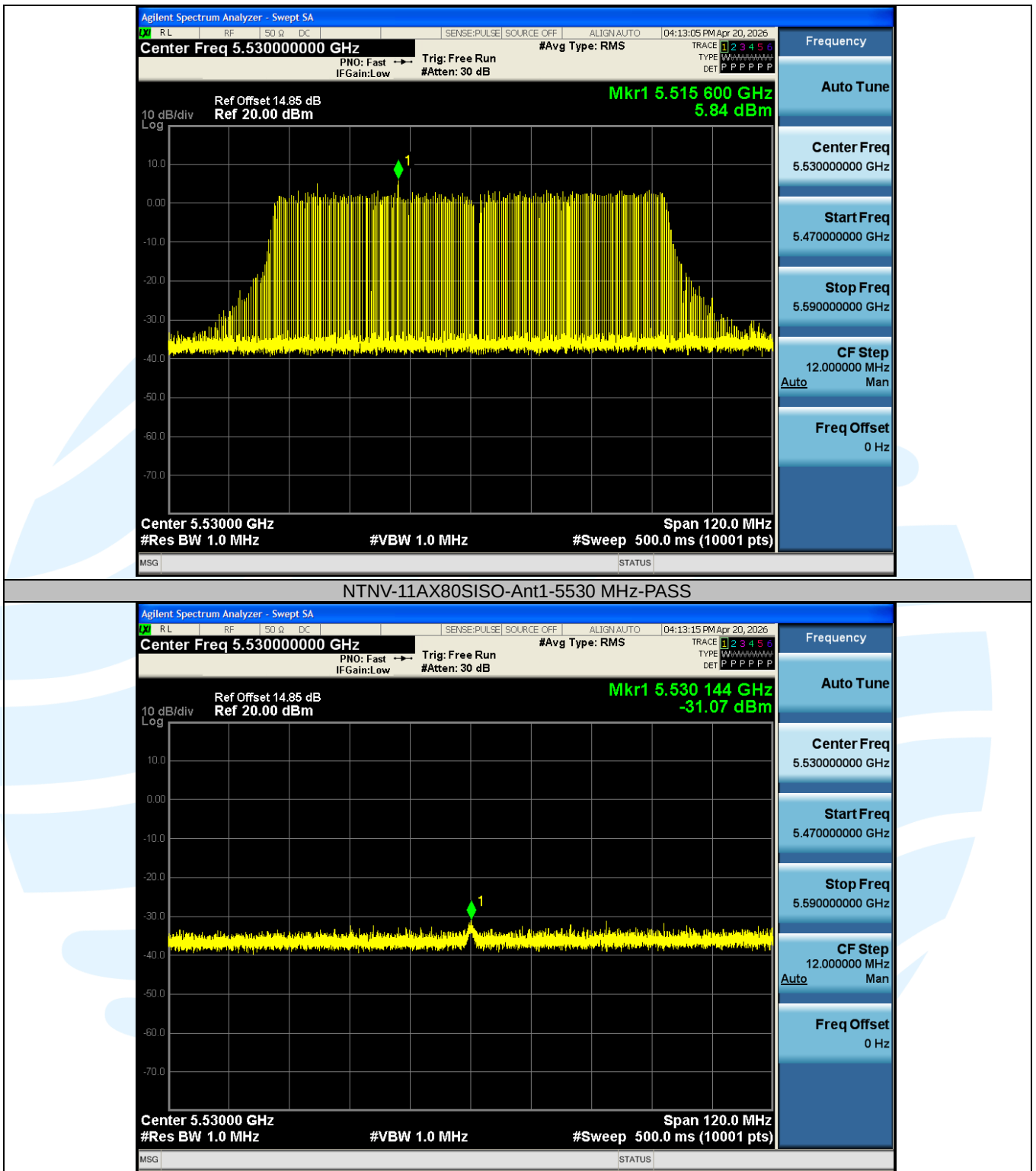
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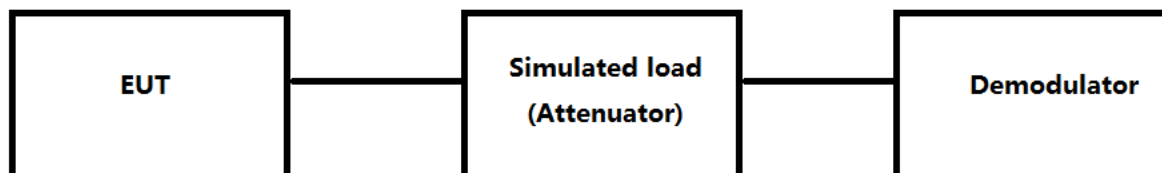
5.12 INTERFERENCE PREVENTION FUNCTION

5.12.1 Limit

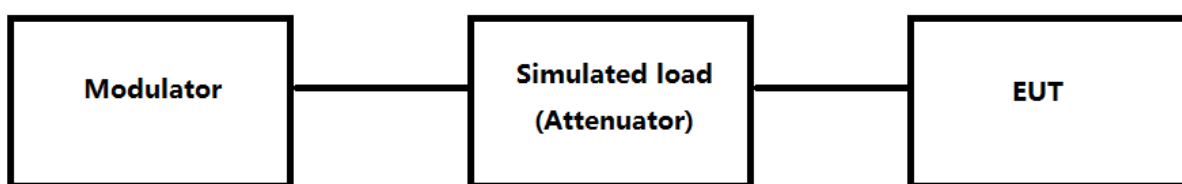
Identification code ≥ 48 bits

5.12.2 Test Setup

Send identification code



Receive identification code



5.12.3 Test Procedures

1. In the case that the EUT has the function of automatically transmitting the identification code:
 - a. Transmit the predetermined identification codes form EUT.
 - b. Check the transmitted identification codes with the demodulator.
2. In the case of receiving the identification code:
 - a. Transmit the predetermined identification codes form the counterpart.
 - b. Check if communication is normal.
 - c. Transmit the signals other than predetermined ID codes form the counterpart.
 - d. Check if the EUT stops the transmission, or if it displays that identification codes are different from the predetermined ones.

5.12.4 Test Result

TX: The transmitting mode of EUT is on normal operating, the interference prevention function is okay.

RX: The receiving mode of EUT is on normal operating, the interference prevention function is okay.

The ID Code of this Wi-Fi device is 00-11-D9-0F-49-30 as below list:

Identification code		
Device Name	MAC address	Options
MP66W	00:11:D9:0F:49:30	

5.13 CONSTRUCTION PROTECTION

5.13.1 Limit

The high-frequency section and modulation section of the radio equipment except for the antenna system shall not be capable of being opened easily.

5.13.2 Confirmation Method

☐	Sealed with special screws.
☐	Plastic chassis is being welded using ultrasonic waves.
☐	Chassis is glued using a special adhesive.
☐	Metal covers are spot-fused.
☐	Cover is specially interlocked.
☒	RF and Modulation components are covered with shielding case and this shielding case is soldered.
☐	Shield case is welded at RF and modulation parts, and ID-ROM is welded using the BGA Method.
☐	Shield case is welded at RF and modulation parts, and ID-ROM is glued at its lead with a special adhesive.
☐	Shield case is welded at RF and modulation parts, and ID-ROM is glued with a non-transparent laminating agent.
☐	Other :

5.13.3 The Photos of Construction Protection

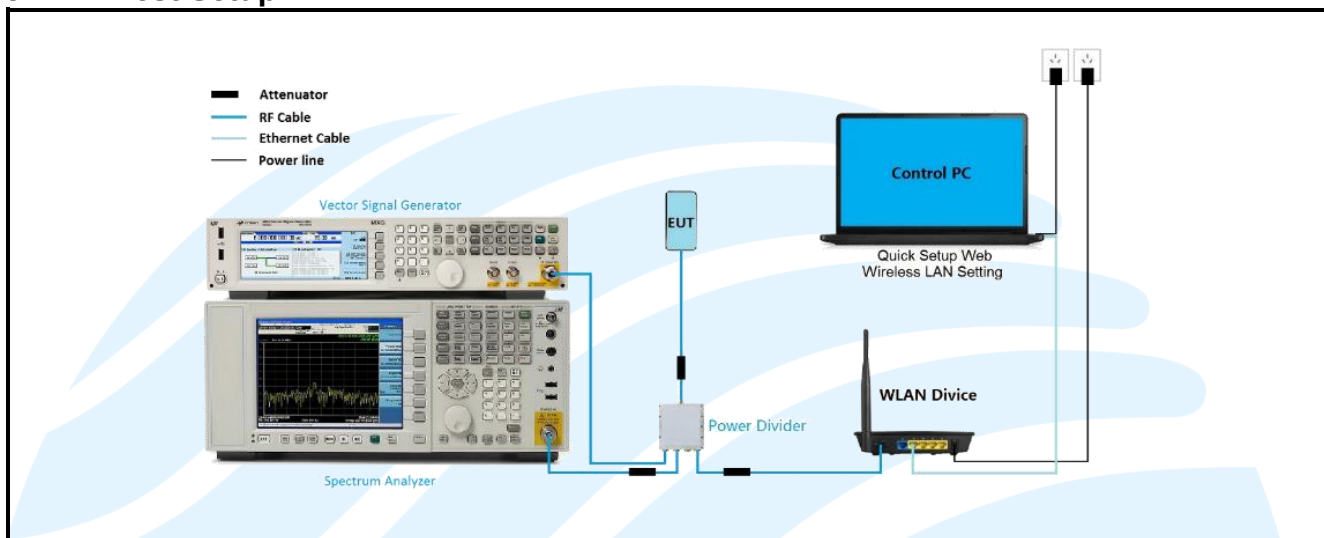


5.14 DYNAMIC FREQUENCY SELECTION

5.14.1 Limit

The slave station shall have the function to select and transmit a frequency and stop transmission automatically controlled by a master station

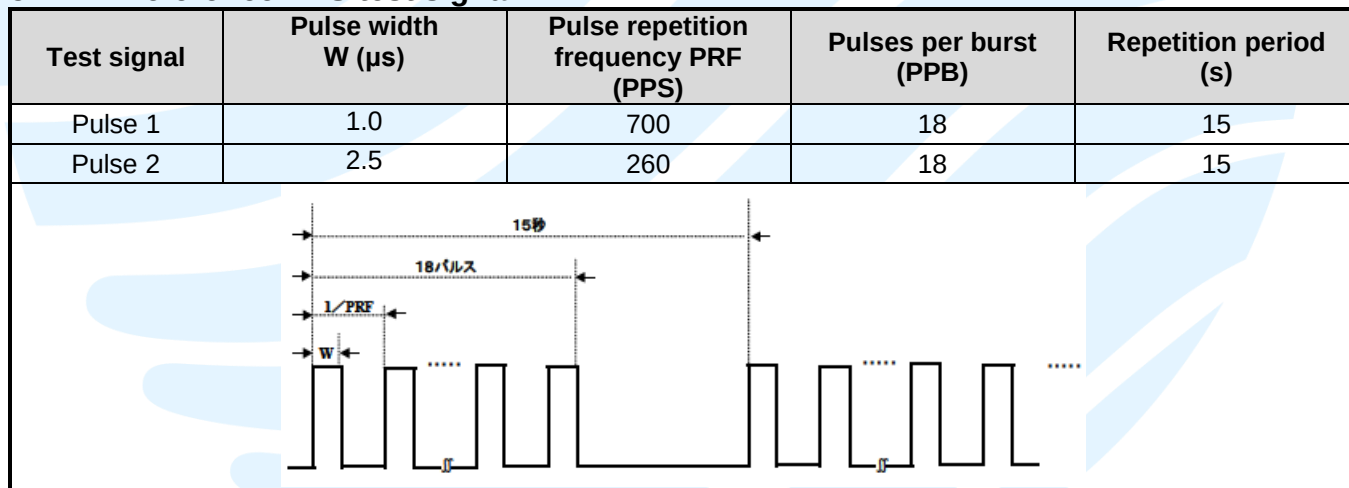
5.14.2 Test Setup



5.14.3 Test procedures

Follow MIC Notice No.88 Appendix No.45

5.14.4 Reference DFS test signal



5.14.5 Radar Detection Threshold

Maximum Transmit Power	Value
EIRP $\geq$ 200 mW	-64 dBm + Gain (dBi)
EIRP < 200 mW	-62 dBm + Gain (dBi)

5.14.6 Test result

PASS

APPENDIX 1 PHOTOGRAPHS OF TEST SETUP

Refer to Appendix 1 for Test Setup photos.

APPENDIX 2 PHOTOGRAPHS OF EUT CONSTRUCTIONAL DETAILS

Refer to Appendix 2 for EUT photos.

*** End of Report ***

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