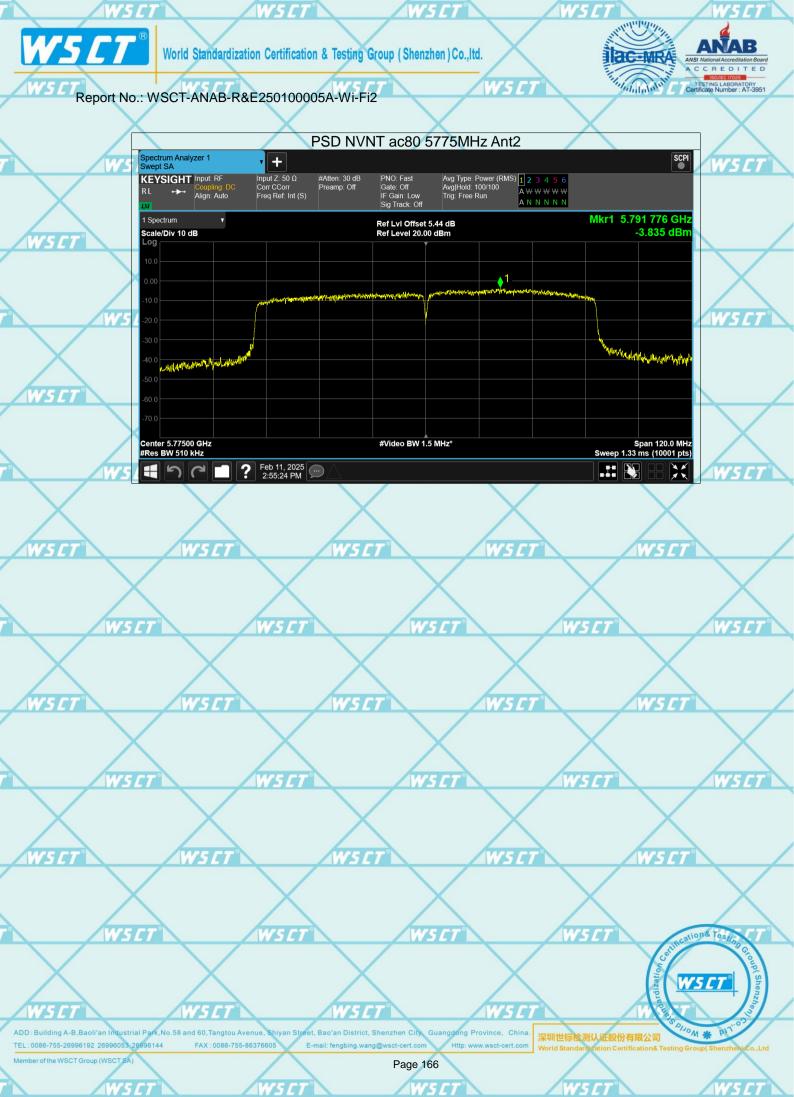




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# 7.7 FREQUENCY STABILITY

 Product:
 EUT-Sample
 Test Item:
 Frequency Stability

 Temperature:
 25 °C
 Humidity:
 56%RH

 Test Voltage:
 DC 11.55V
 Test Result:
 PASS

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	_								
	Mode	Frequency (MHz)	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict	1	
	a	5180	5179.96	-40000	-7.72	25	Pass	X	
	a	5240	5239.96	-40000	-7.63	25	Pass		
	а	5260	5259.96	-40000	-7.6	25	Pass		
	a	5320	5319.96	-40000	-7.52	25	Pass	3 / e=X	
_	a	5500	5499.94	-60000	-10.91	25	Pass	15	
	a	5700	5699.94	-60000	-10.53	25	Pass		
	a	5745	5744.96	-40000	-6.96	25	Pass		
	a	5825	5824.96	-40000	-6.87	25	Pass	1	
	n20	5180	5179.98	-20000	-3.86	25	Pass		
1	n20	5240	5239.98	-20000	-3.82	25	Pass		
	n20	5260	5259.98	-20000	-3.8	25	Pass	-	
	n20	5320	5319.94	-60000	-3.6	25	Pass		
								1	
	n20	5500	5499.94	-60000	-10.91	25 25	Pass	X	
	n20	5700	5699.94	-60000	-10.53		Pass		
	n20	5745	5744.94	-60000	-10.44	25	Pass		
	n20	5825	5824.98	-20000	-3.43	25	Pass	: /	
+	n40	5190	5189.96	-40000	-7.71	25	Pass	17	
	n40	5230	5230	0	0	25	Pass		
	n40	5270	5270	0	0	25	Pass		
	n40	5310	5310	0	0	25	Pass		
	n40	5510	5510	0	0	25	Pass		
	n40	5670	5669.96	-40000	-7.05	25	Pass		
L	n40	5755	5754.96	-40000	-6.95	25	Pass		
	n40	5795	5795	0	0	25	Pass		
	ac20	5180	5180	0	0	25	Pass	/	
	ac20	5240	5239.98	-20000	-3.82	25	Pass	$\land$	
	ac20	5260	5259.96	-40000	-7.6	25	Pass		
	ac20	5320	5319.98	-20000	-3.76	25 Pass	-		
_	ac20	5500	5499.98	-20000	-3.64	25	Pass	7/5	
	ac20	5700	5699.98	-20000	-3.51	25	Pass		
	ac20	5745	5744.98	-20000	-3.48	25	Pass		
	ac20	5825	5824.98	-20000	-3.43	25	Pass		
	ac40	5190	5189.96	-40000	-7.71	25	Pass		
	ac40	5230	5229.96	-40000	-7.65	25	Pass		
	ac40	5270	5269.96	-40000	-7.59	25	Pass		
	ac40	5310	5309.96	-40000	-7.53	25	Pass		
	ac40	5510	5509.96	-40000	-7.26	25	Pass		
	ac40	5670	5669.96	-40000	-7.05	25	Pass	X	
	ac40	5755	5754.96	-40000	-6.95	25	Pass		
	ac40	5795	5794.96	-40000	-6.9	25	Pass		
	ac80	5210	5209.92	-80000	-15.36	25	Pass		
/	ac80	5290	5289.92	-80000	-15.12	25	Pass		
	ac80	5530	5530.08	80000	14.47	25	Pass		
	ac80	5610	5609.92	-80000	-14.26	25	Pass		
	ac80	5775	5774.92	-80000	-13.85	25	Pass		

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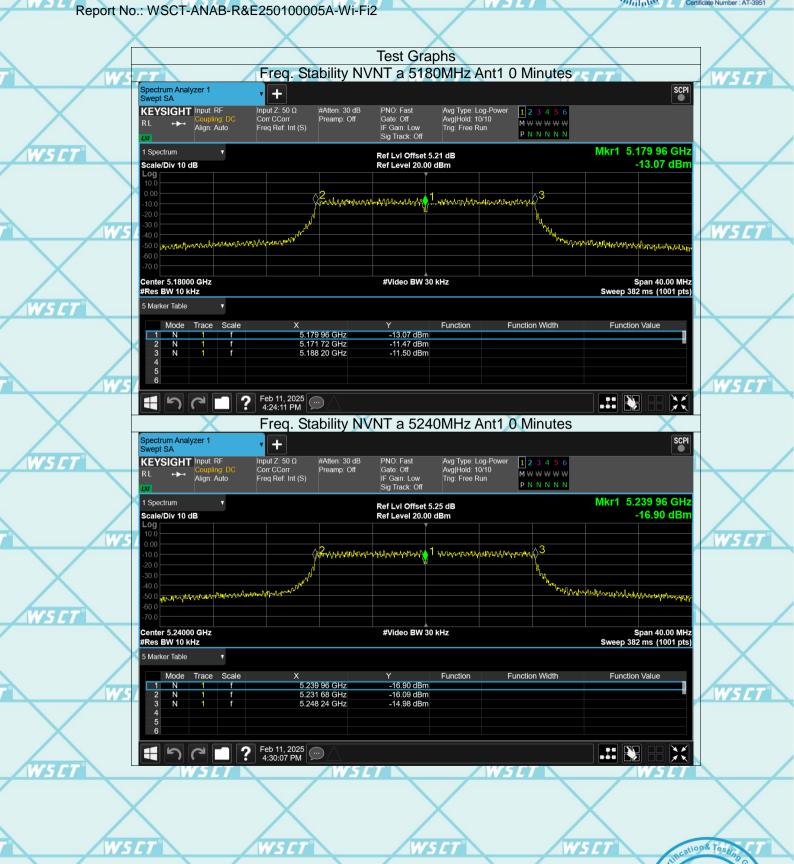
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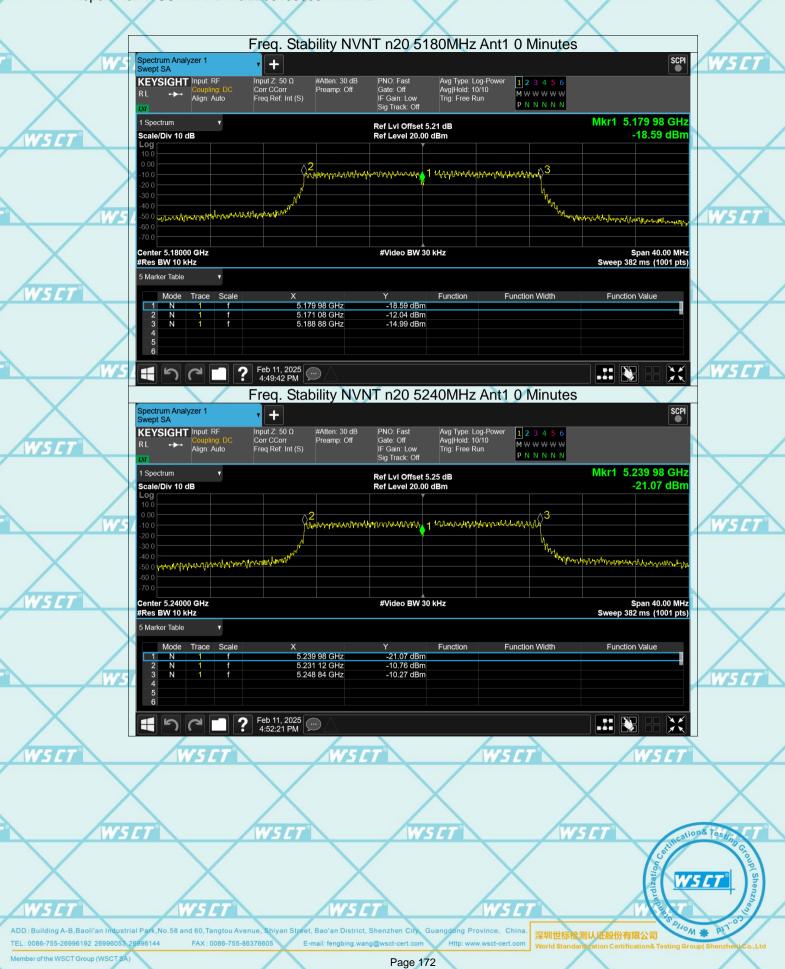




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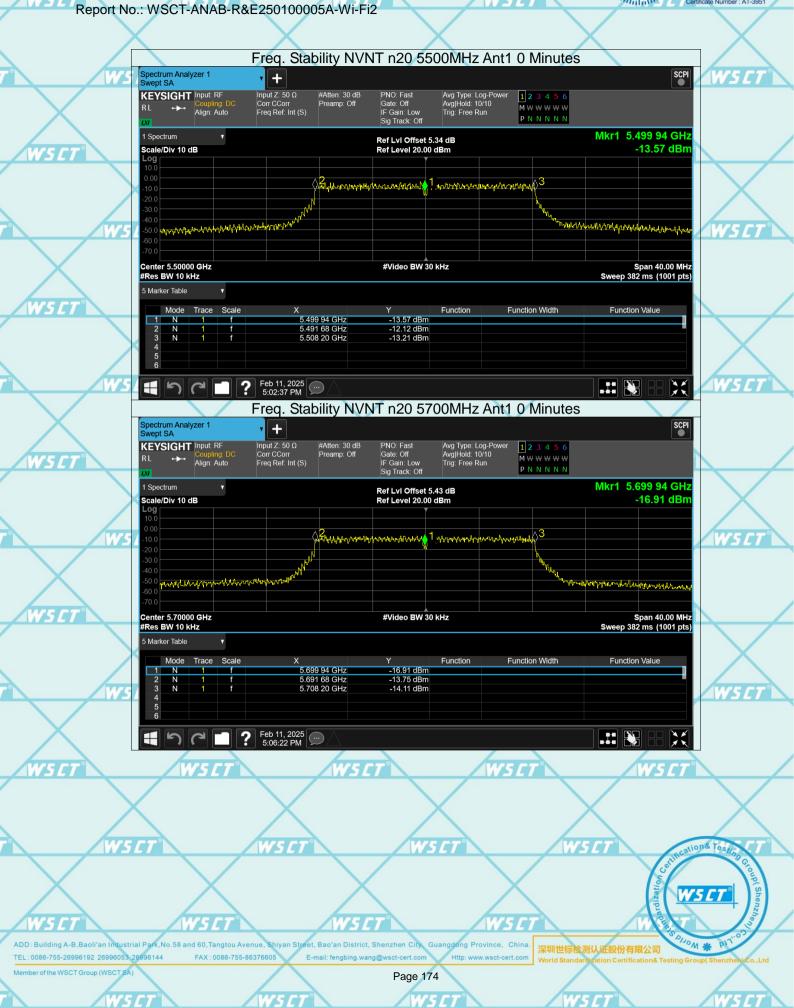
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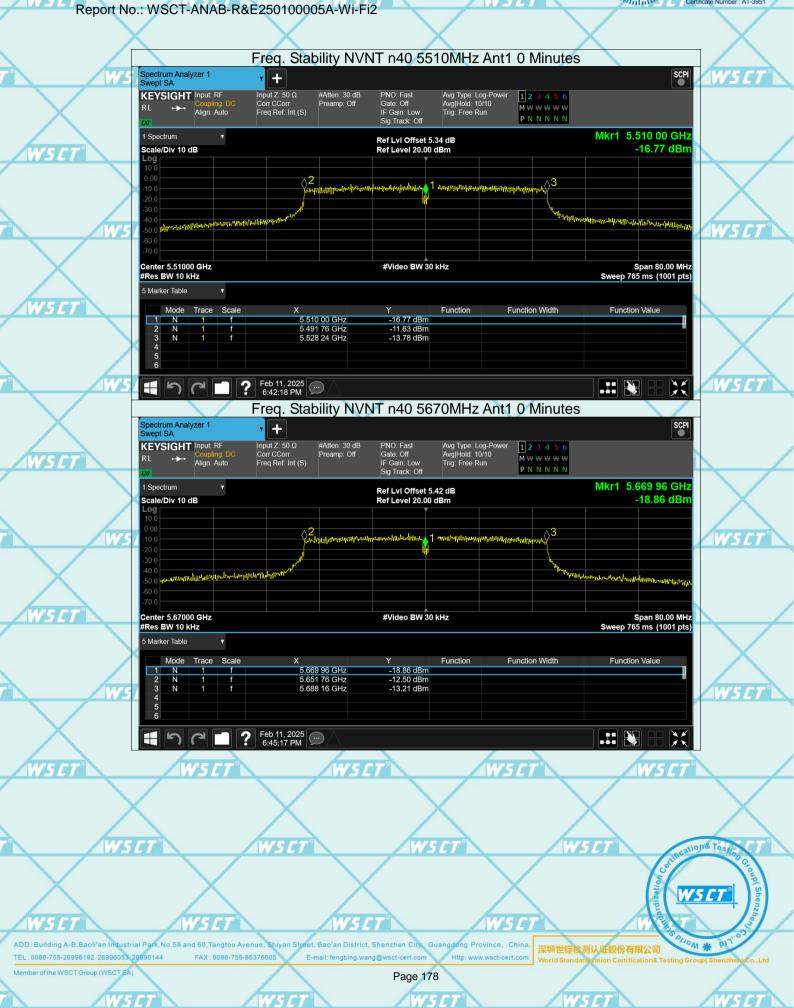
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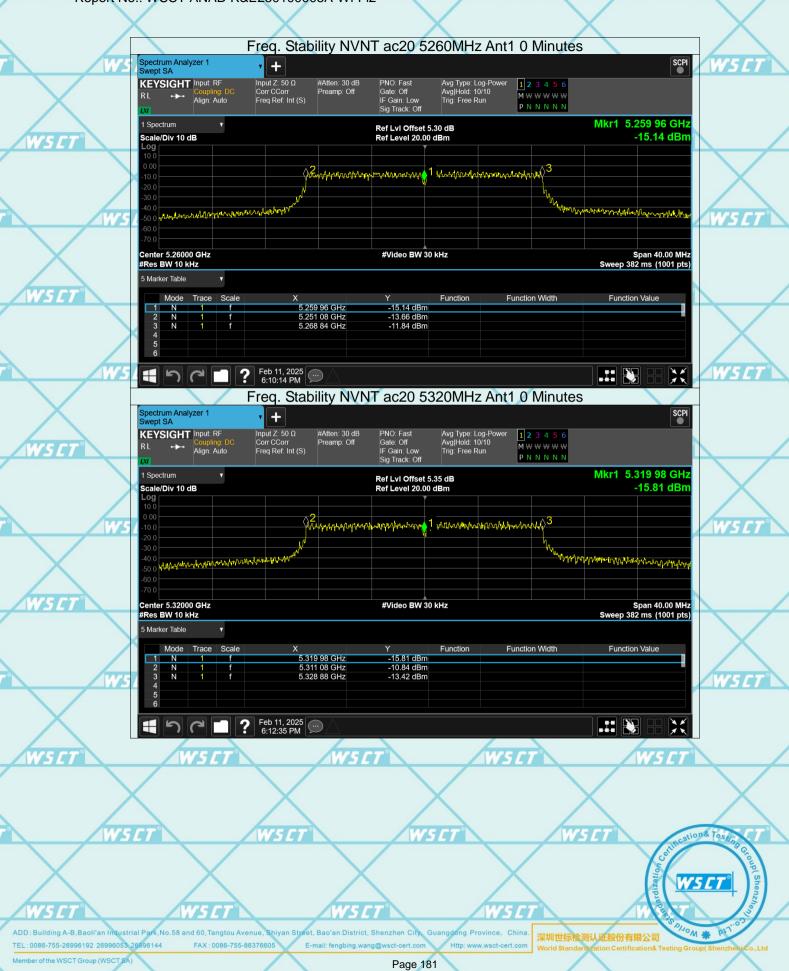




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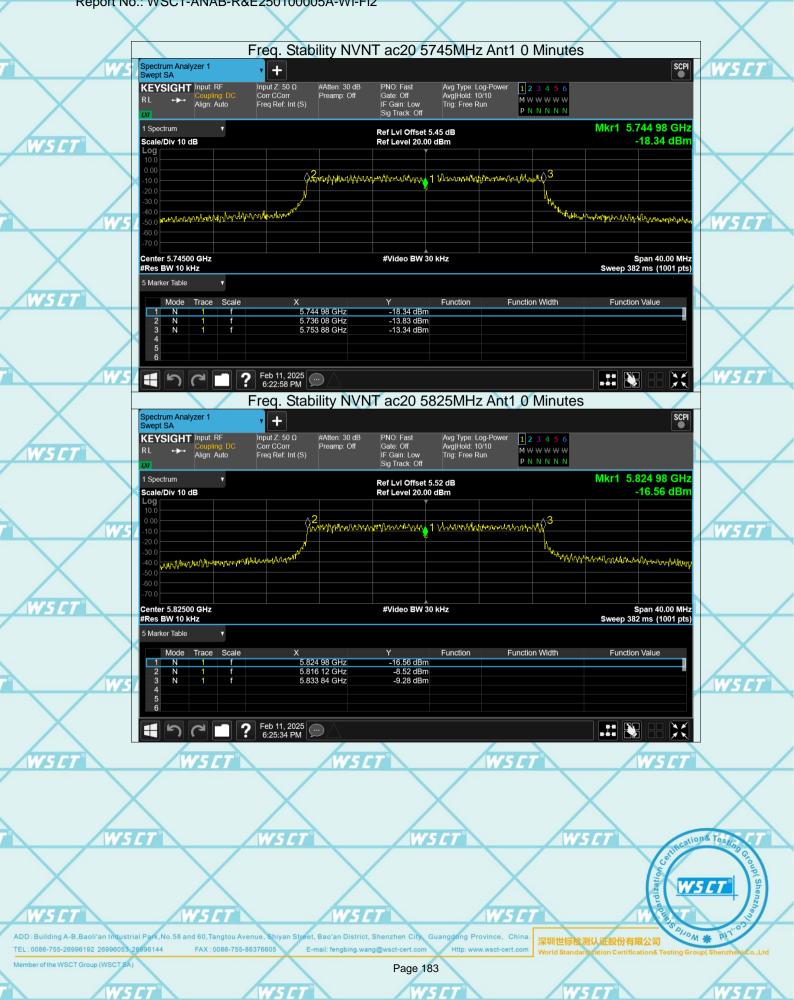
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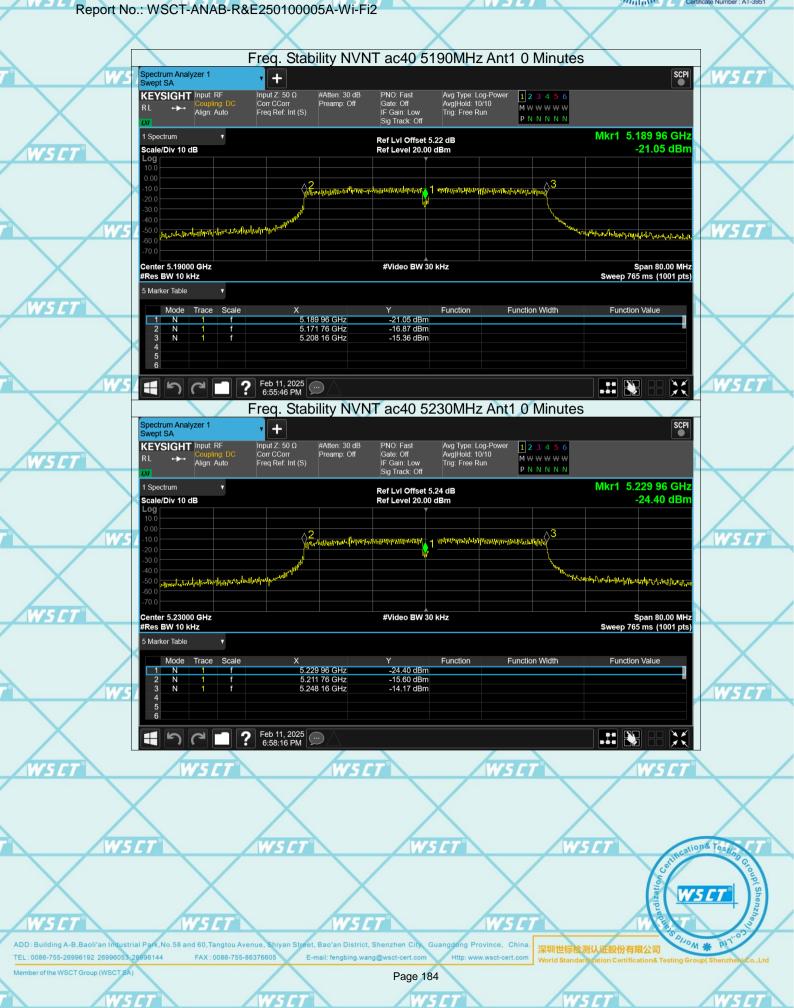




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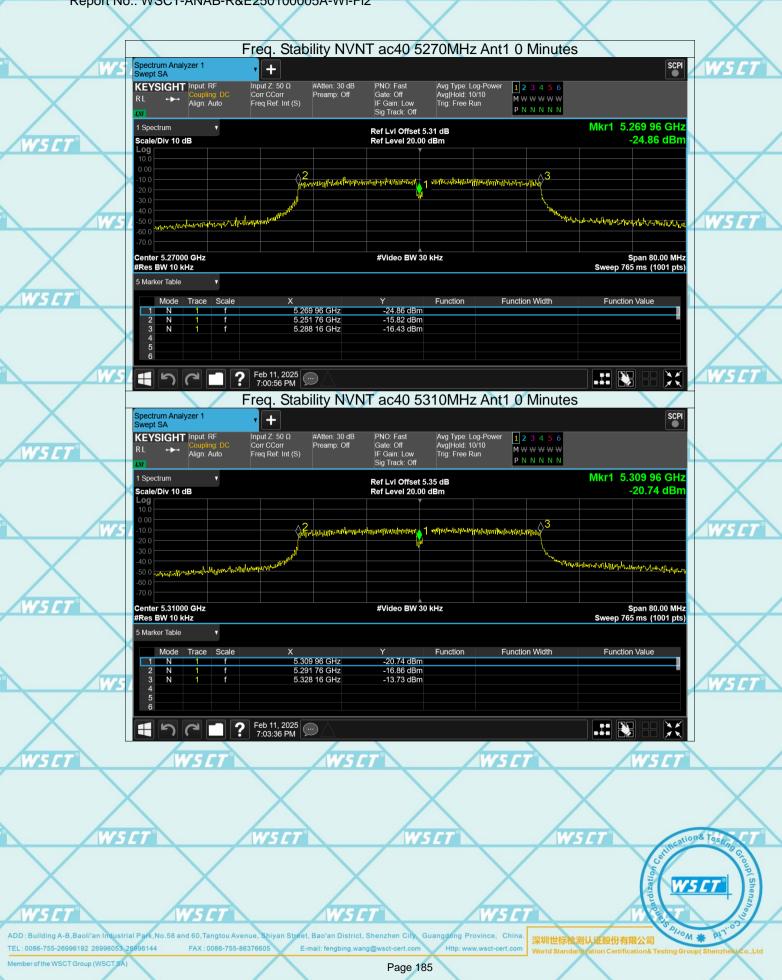




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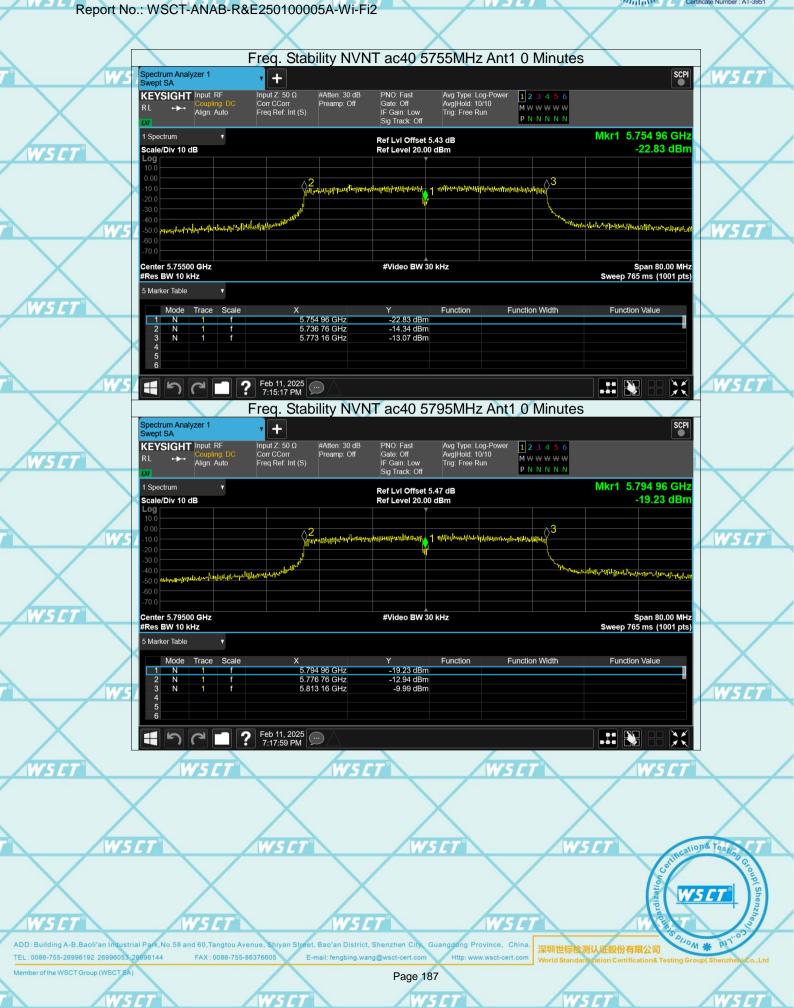




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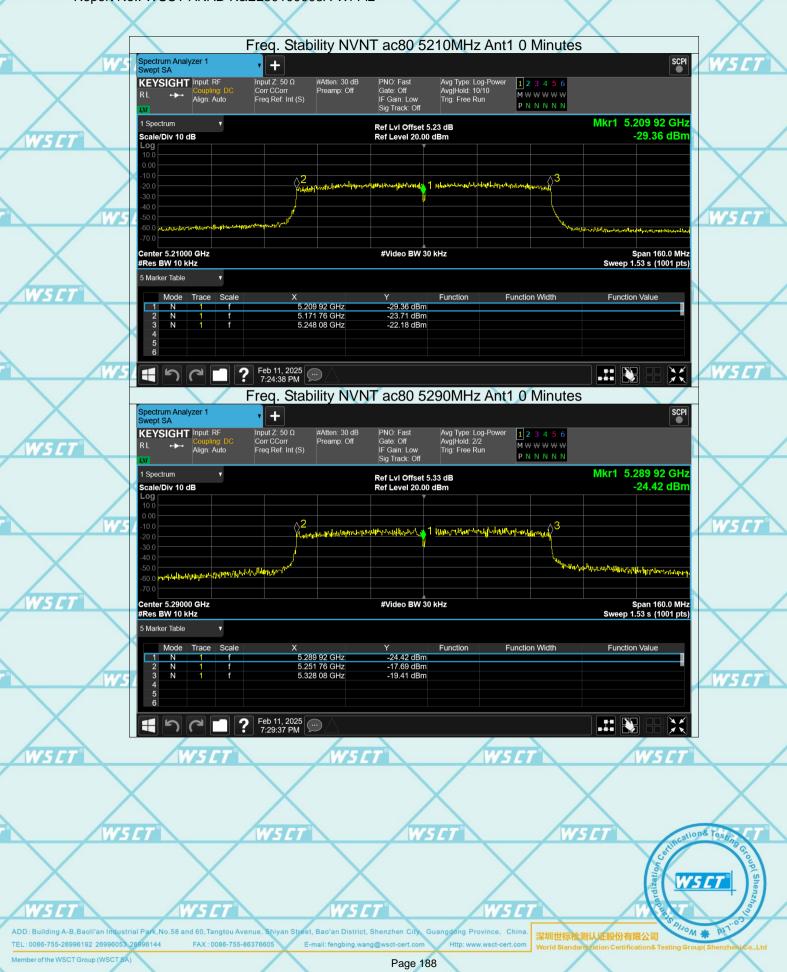






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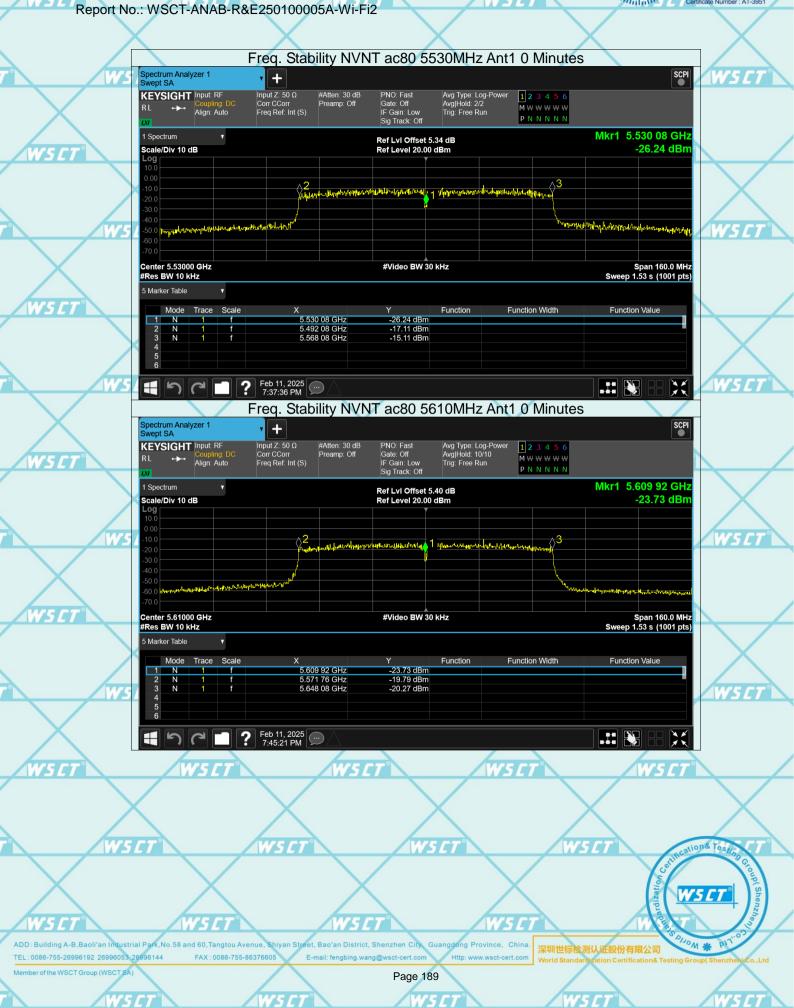




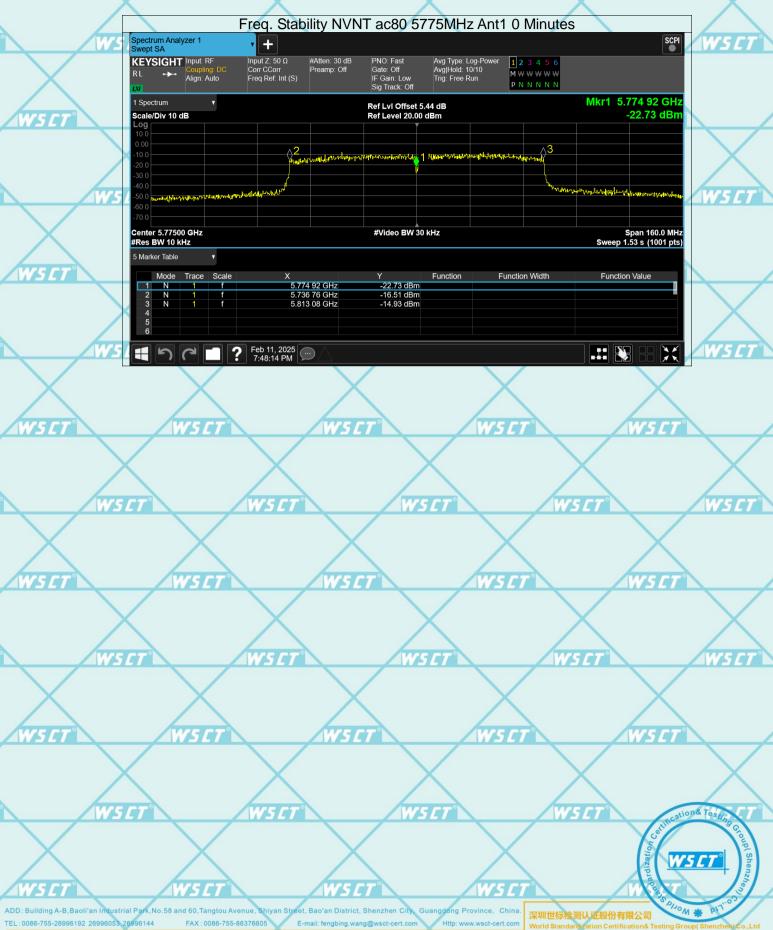












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## 7.8 BAND EDGE EMISSIONS

#### 7.8.1 TEST EQUIPMENT

Please refer to Section 5 this report.

Test Procedure

Band Edge I	Emissions N	leasurement:
-------------	-------------	--------------

Test Method:

- a.)The EUT was tested according to ANSI C63.10.
- b) The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 1.5 m. All set up is according to ANSI C63.10.
- c) The frequency spectrum from 9 kHz to 40 GHz was investigated. All readings from 9 kHz to 150 kHz are quasi-peak values with a resolution bandwidth of 200 Hz. All readings from 150 kHz to 30 MHz are quasi-peak values with a resolution bandwidth of 9 KHz. All readings from 30 MHz to 1 GHz are quasi-peak values with a resolution bandwidth of 120 KHz. All readings are above 1 GHz, peak values with a resolution bandwidth of 1 MHz. Measurements were made at 3 meters.
- d)The emissions from the EUT were measured continuously at every azimuth by rotating the turntable. The Receiving antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency. Emissions below 30MHz were measured with a loop antenna while emission above 30MHz were measured using a broadband E-field antenna.
- e) Maximizing procedure was performed on the six (6) highest emissions to ensure EUT compliance is with all installation combinations. All data was recorded in the peak detection mode. Quasi-peak readings was performed only when an emission was found to be marginal (within -4 dB of specification limit), and are distinguished with a "QP" in the data table.
- f)Each emission was to be maximized by changing the polarization of receiving antenna both

horizontal and vertical. In order to find out the max, emission, the relative positions of this transmitter(EUT) was rotated through three orthogonal axes according to the requirements in

Section 8 and 13 of ANSI C63.10.

## **Band Edge Emissions Measurement:**

Test Equipment Setting:

- a)Attenuation: Auto b)Span Frequency: 100 MHz
- c)RBW/VBW (Emission in restricted band):
- 1MHz / 3MHz for Peak, 1MHz / 1/T for Average

d)RBW/VBW(Emission in non-restricted band) 1MHz / 3MHz for peak

#### 7.8.2 TEST SETUP

Same as section 3.4 of this report

## 7.8.3 CONFIGURATION OF THE EUT

Same as section 3.4of this report

#### 7.8.4 EUT OPERATING CONDITION

Same as section 3.4 of this report.

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	7.8.5	LIMIT	X	X	X	X
	Spurio	ous Radiat	ed Emission & Band Edge Emission		WSIT	WSIT
	Limit:		For transmitters operating in the 5.15		sissions outside of the 5.15-5.35	
WSI	3		GHz band shall not exceed an e.i.r.p For transmitters operating in the 5.47 5.47-5.725 GHz band shall not exceed For transmitters operating in the 5.72 range from the band edge to 10 MHz	70-5.725 GHz band: all ed an e.i.r.p. of −27 dBn 25-5.85 GHz band: all e	n/MHz. missions within the frequency	
		X	e.i.r.p. of -17 dBm/MHz; for frequence emissions shall not exceed an e.i.r.p	cies 10 MHz or greater a b. of −27 dBm/MHz.	above or below the band edge,	X
$\overline{}$	W	SET	In any 100 KHz bandwidth outside the that is produced by modulation produced sequence and the carrier frequency bandwidth within the band that contaexceed the general levels specified in	ucts of the spreading se shall be either at least 2 ains the highest level of	quence, the information 0 dB below that in any 100 KHz the desired power or shall not	WSET

All other emissions inside restricted bands specified in section 15.205(a) shall not exceed

Note:

Applies to harmonics/spurious emissions that fall in the restricted bands listed in section 15.205. The maximum permitted average field strength is listed in section 15.209.

the general radiated emission limits specified in section 15.209(a)

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47 CFR § 15.237(c): The emission limits as specified above are based on measurement instrument employing an average detector. The provisions in section 15.35 for limiting peak emissions apply.

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# 7.8.6 TEST RESULT

**Band Edge and Fundamental Emissions** 

	Product:	EUT-Sample	Test Mode:	20MHzIEEE 802.11a/n/ac/ax	WSCT
	Test Item:	Band Edge and Fundamental Emissions	Temperature:	25 °C	
	Test Voltage:	DC 11.55V	Humidity:	56%RH	
<u>C1</u>	Test Result:	PASS 5 [T] W5 [	7°	W5 CT W5 C	7

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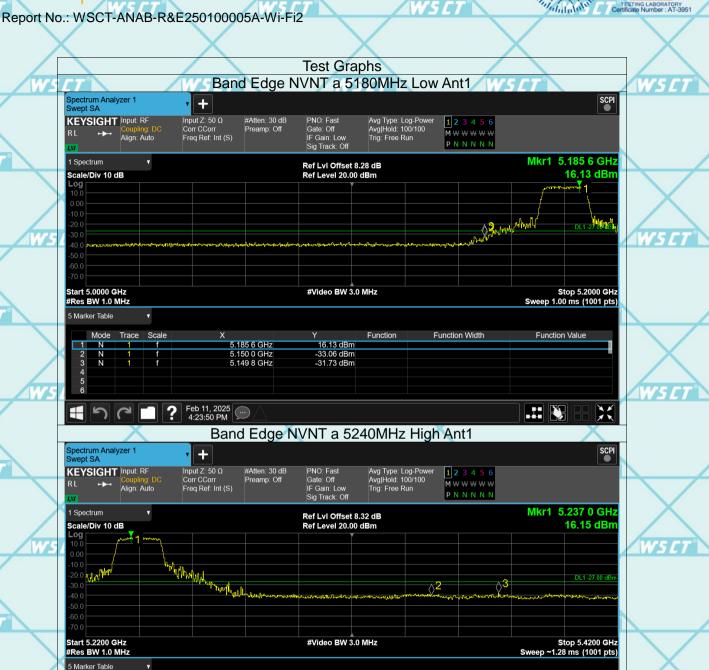
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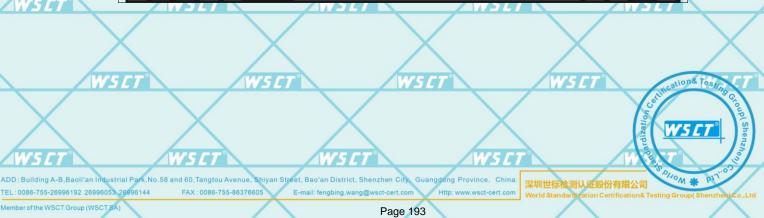
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Function Value

Function Width

Function

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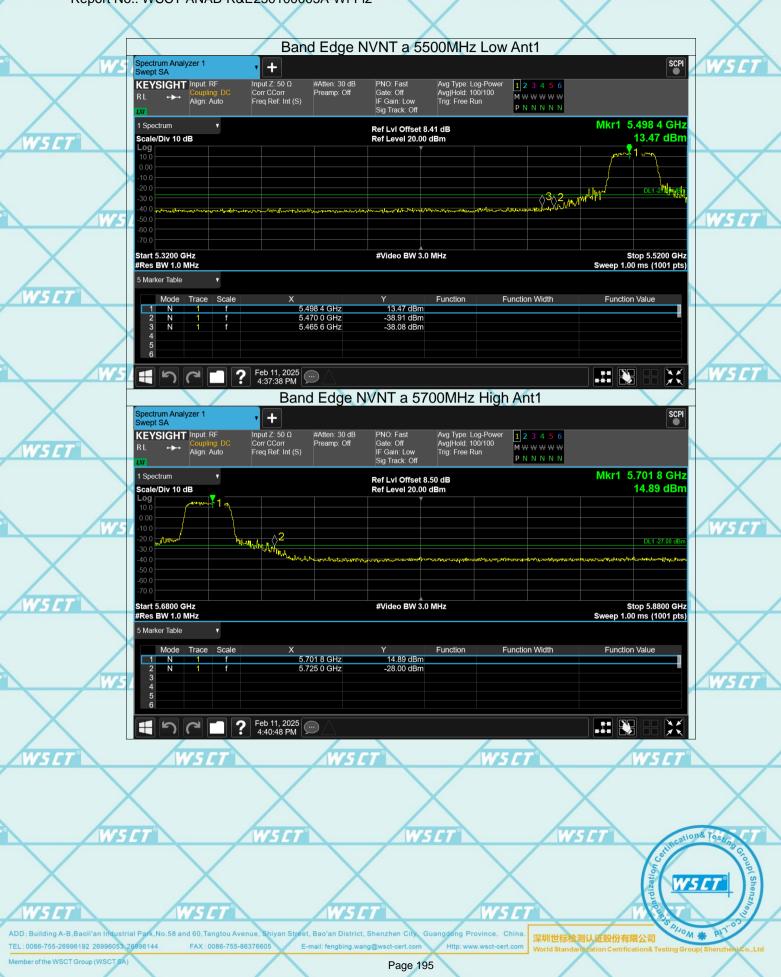






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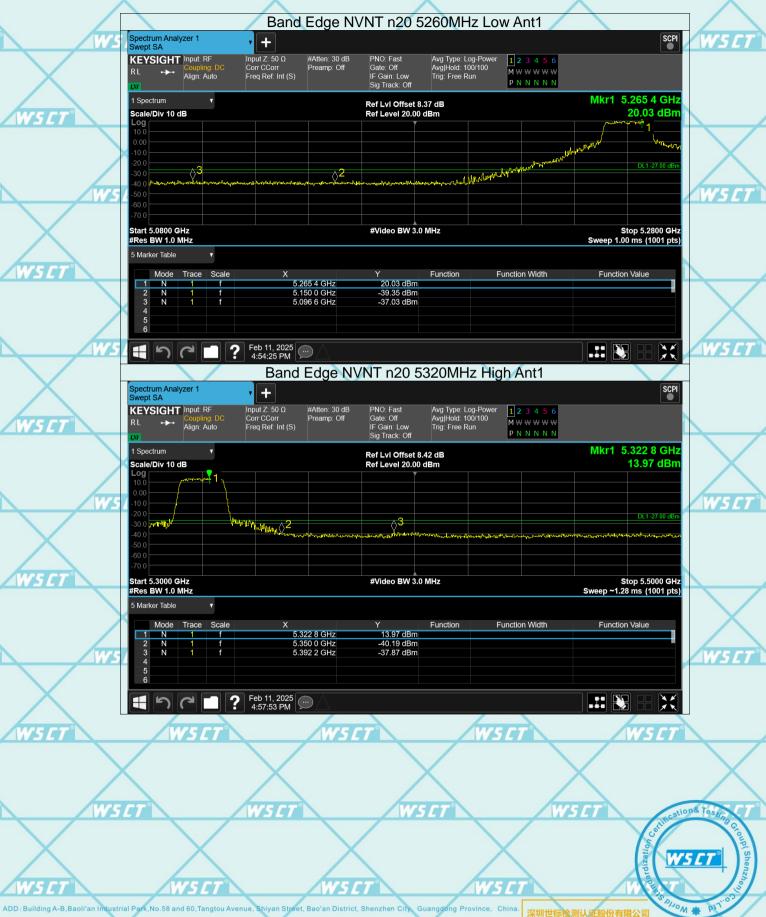
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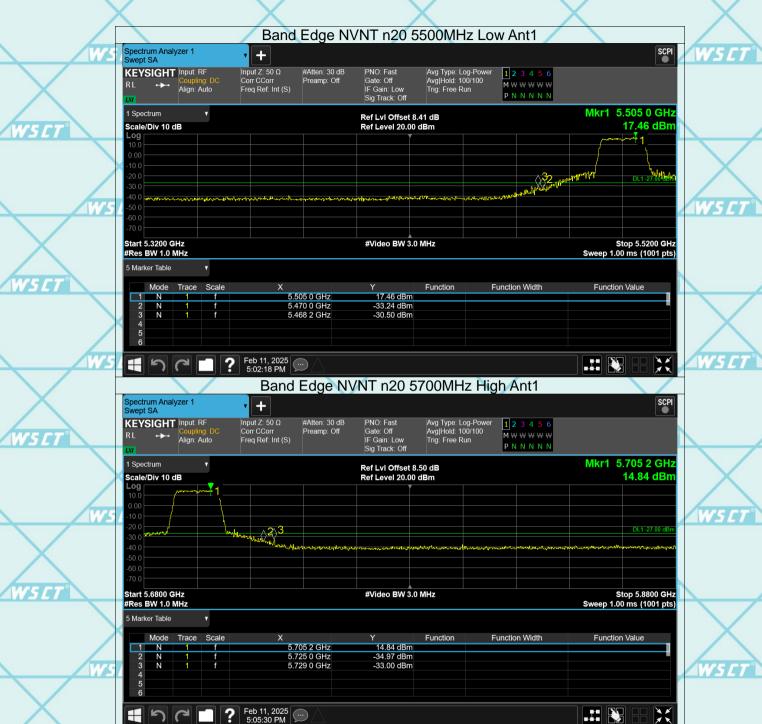
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