

Report No.: WSCT-ANAB-R&E241100065A-Wi-Fi2

7.8 BAND EDGE EMISSIONS

7.8.1 TEST EQUIPMENT

Please refer to Section 5 this report.

Test Procedure

Band Edge Emissions Measurement:

Test Method:	<p>a.) The EUT was tested according to ANSI C63.10.</p> <p>b) The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high <u>1.5</u> m. All set up is according to ANSI C63.10.</p> <p>c) The frequency spectrum from <u>9</u> kHz to 40 GHz was investigated. All readings from <u>9</u> kHz to <u>150</u> kHz are quasi-peak values with a resolution bandwidth of <u>200</u> Hz. All readings from <u>150</u> kHz to <u>30</u> MHz are quasi-peak values with a resolution bandwidth of <u>9</u> kHz. All readings from <u>30</u> MHz to <u>1</u> GHz are quasi-peak values with a resolution bandwidth of <u>120</u> kHz. All readings are above <u>1</u> GHz, peak values with a resolution bandwidth of <u>1</u> MHz. Measurements were made at <u>3</u> meters.</p> <p>d) The emissions from the EUT were measured continuously at every azimuth by rotating the turntable. The Receiving antenna high is varied from <u>1</u> m to <u>4</u> 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.</p> <p>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.</p> <p>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.</p>
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Band Edge Emissions Measurement:

Test Equipment Setting:

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

7.8.2 TEST SETUP

Same as section 3.4 of this report

7.8.3 CONFIGURATION OF THE EUT

Same as section 3.4 of this report

7.8.4 EUT OPERATING CONDITION

Same as section 3.4 of this report.



7.8.5 LIMIT

Spurious Radiated Emission & Band Edge Emissions Measurement:	
Limit:	For transmitters operating in the 5.15-5.35 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz. For transmitters operating in the 5.470-5.725 GHz band: all emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz. For transmitters operating in the 5.725-5.85 GHz band: all emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an e.i.r.p. of -17 dBm/MHz; for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an e.i.r.p. of -27 dBm/MHz. In any 100 KHz bandwidth outside the operating frequency band, the radio frequency power that is produced by modulation products of the spreading sequence, the information sequence and the carrier frequency shall be either at least 20 dB below that in any 100 KHz bandwidth within the band that contains the highest level of the desired power or shall not exceed the general levels specified in section 15.209(a), which lesser attenuation. All other emissions inside restricted bands specified in section 15.205(a) shall not exceed the general radiated emission limits specified in section 15.209(a)
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. 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.

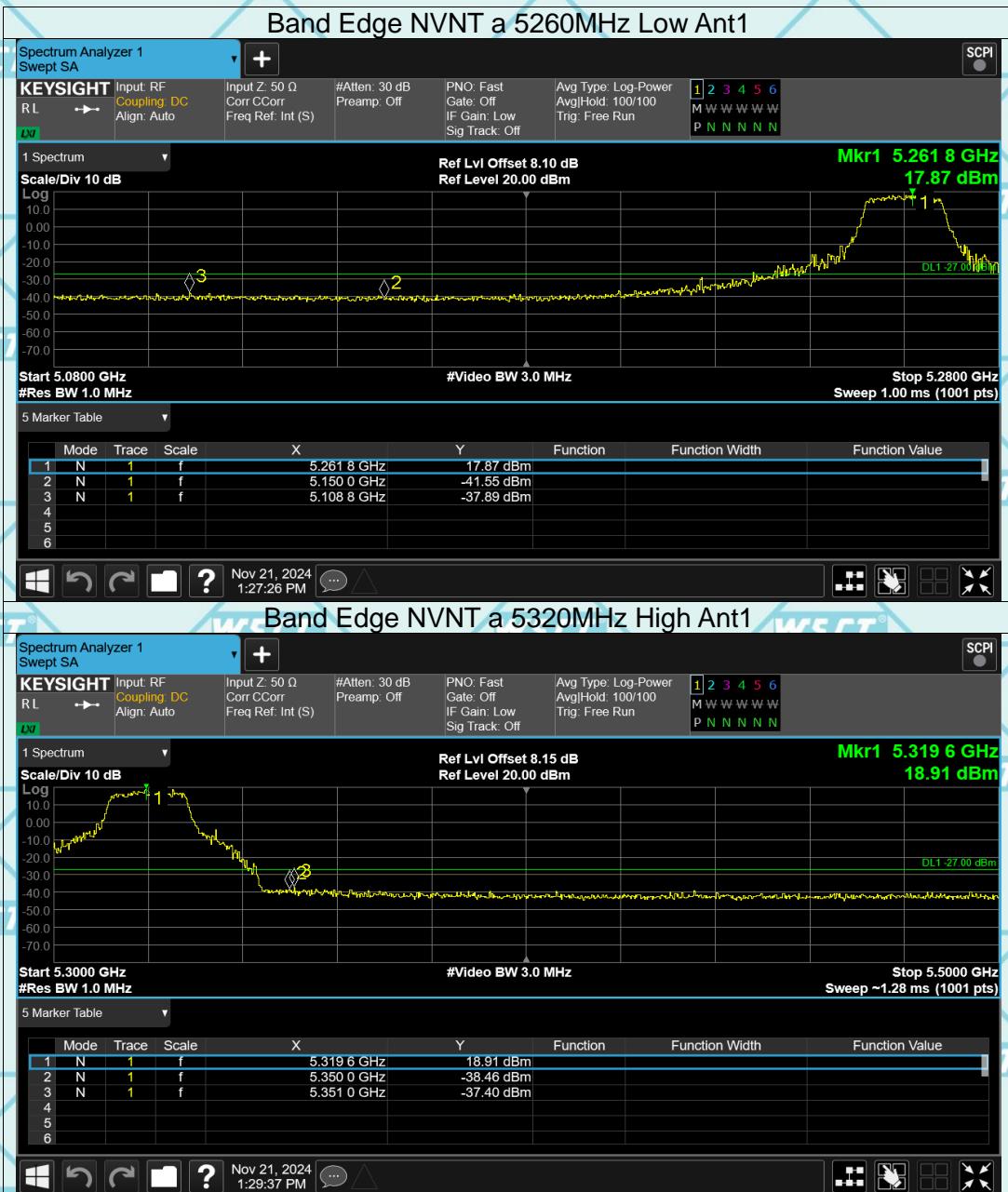
7.8.6 TEST RESULT

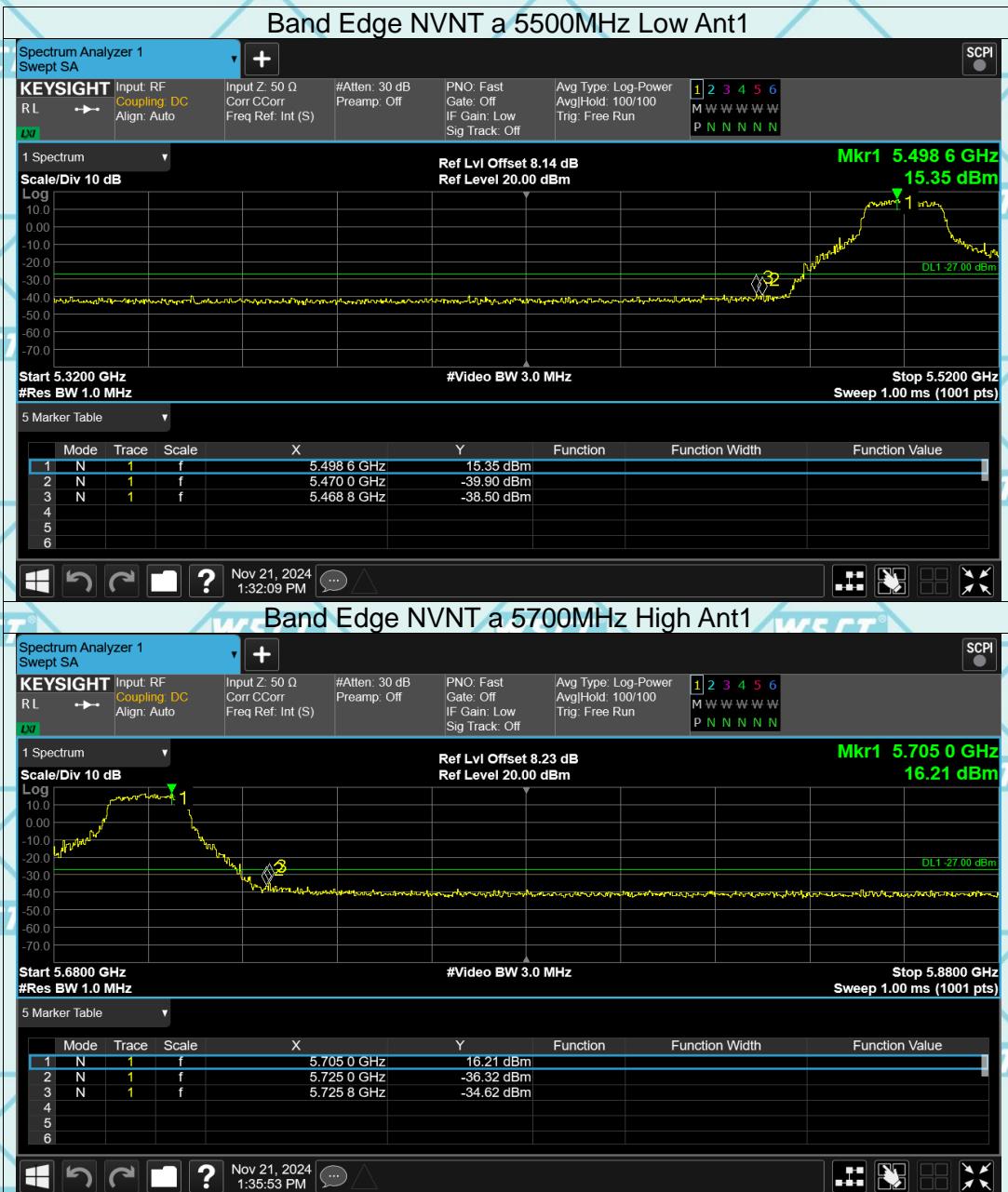
Band Edge and Fundamental Emissions

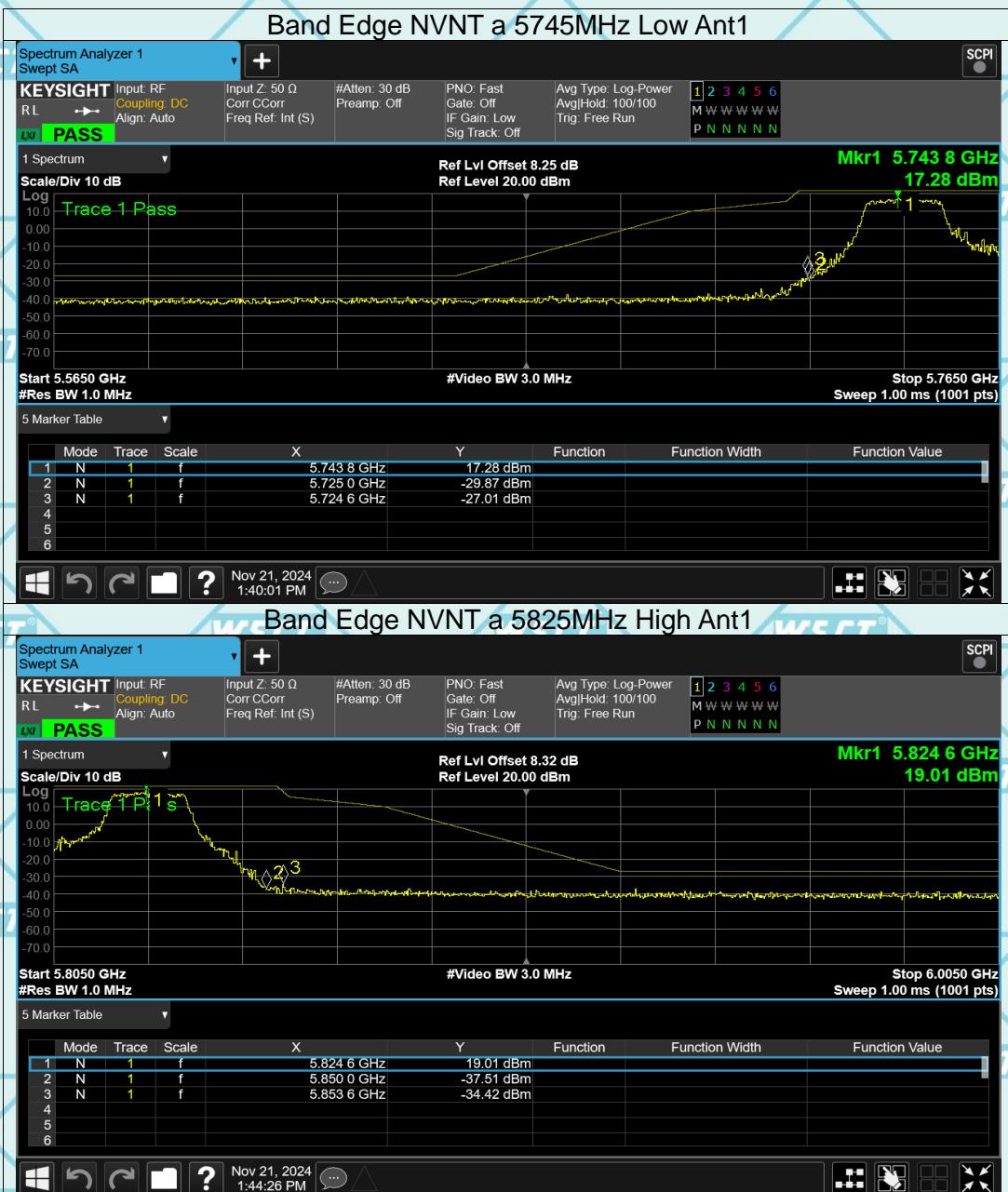
Product:	EUT-Sample	Test Mode:	20MHz IEEE 802.11a/n/ac/ax
Test Item:	Band Edge and Fundamental Emissions	Temperature:	25 °C
Test Voltage:	DC 11.55V	Humidity:	56%RH
Test Result:	PASS		

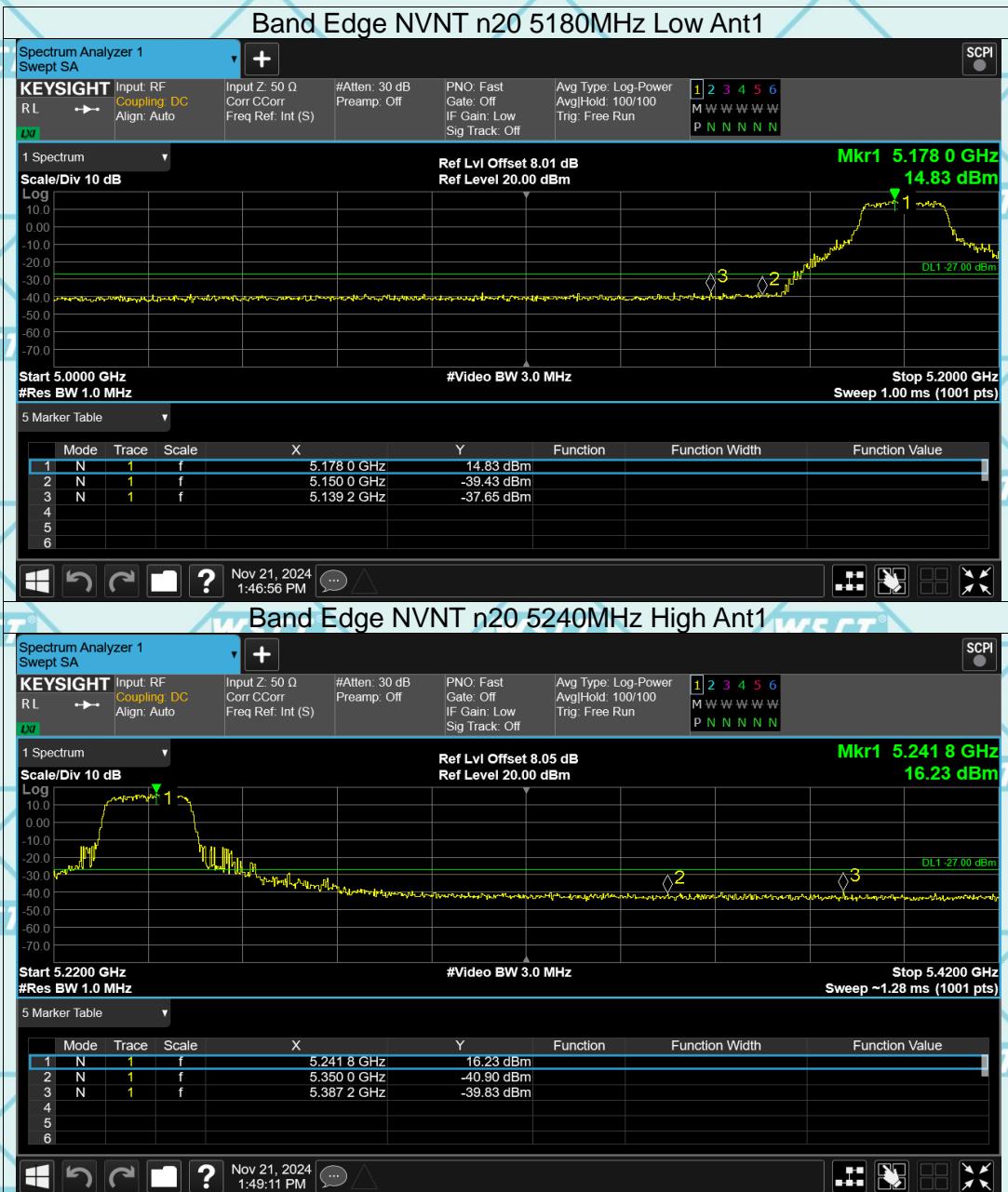


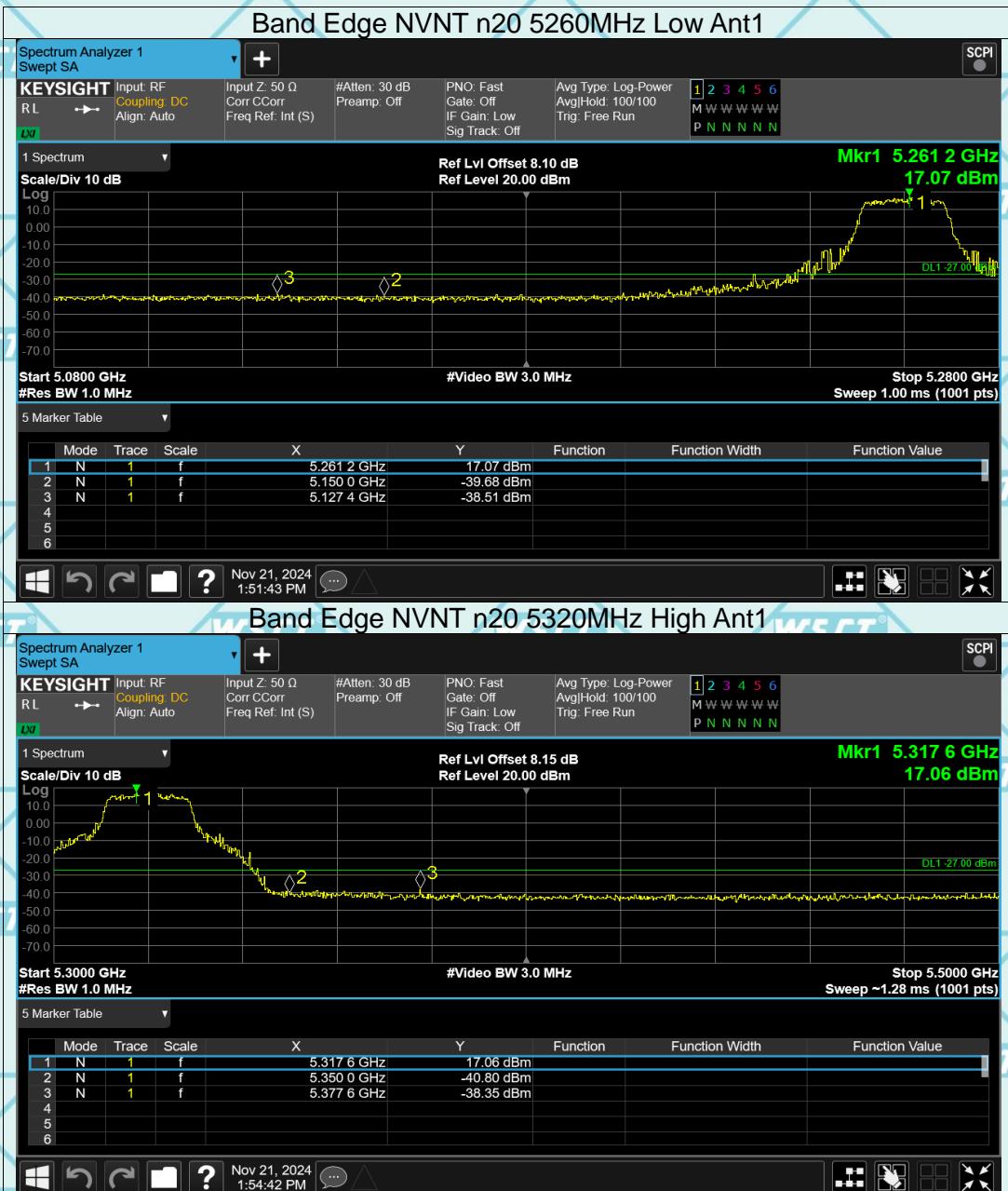


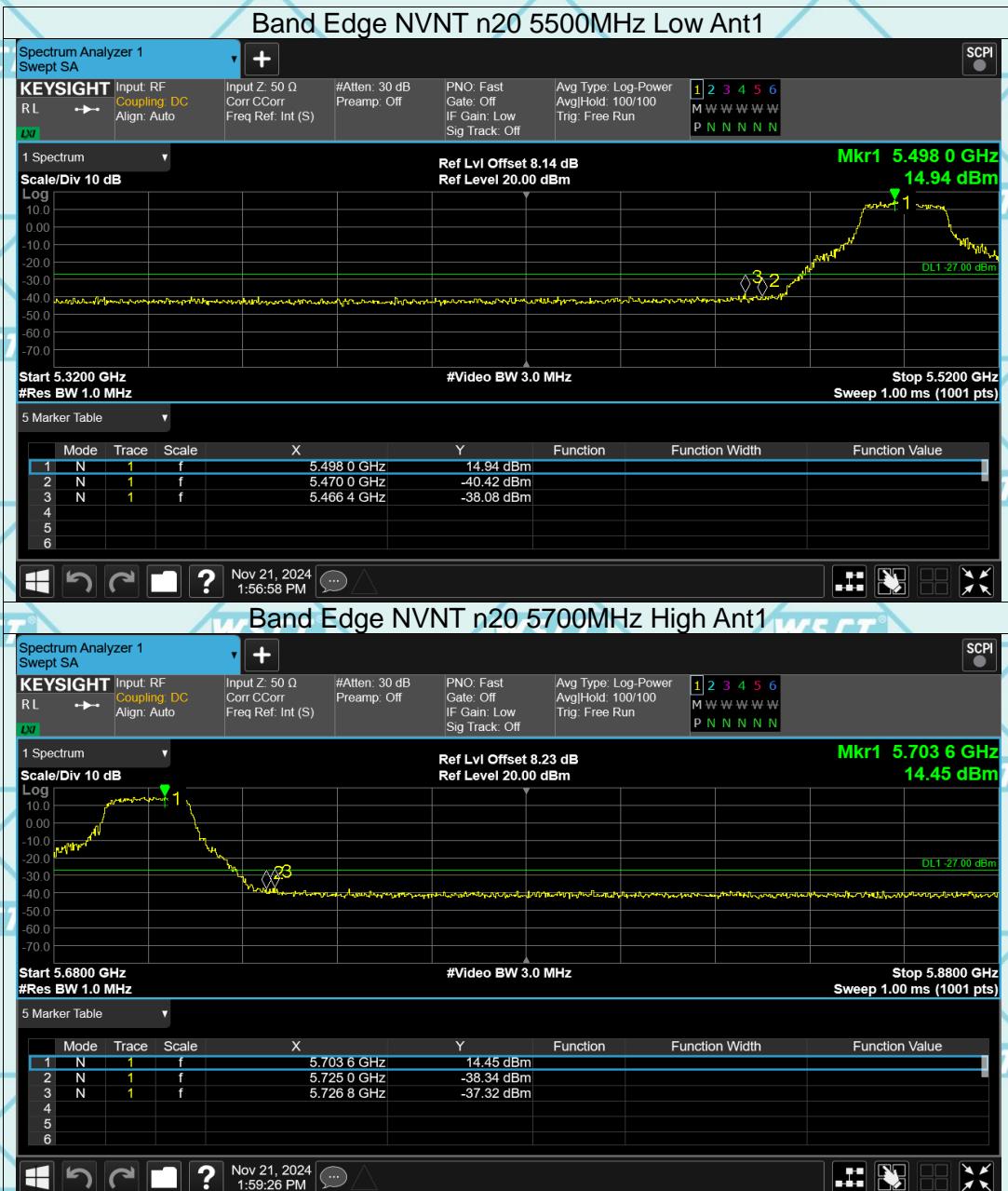


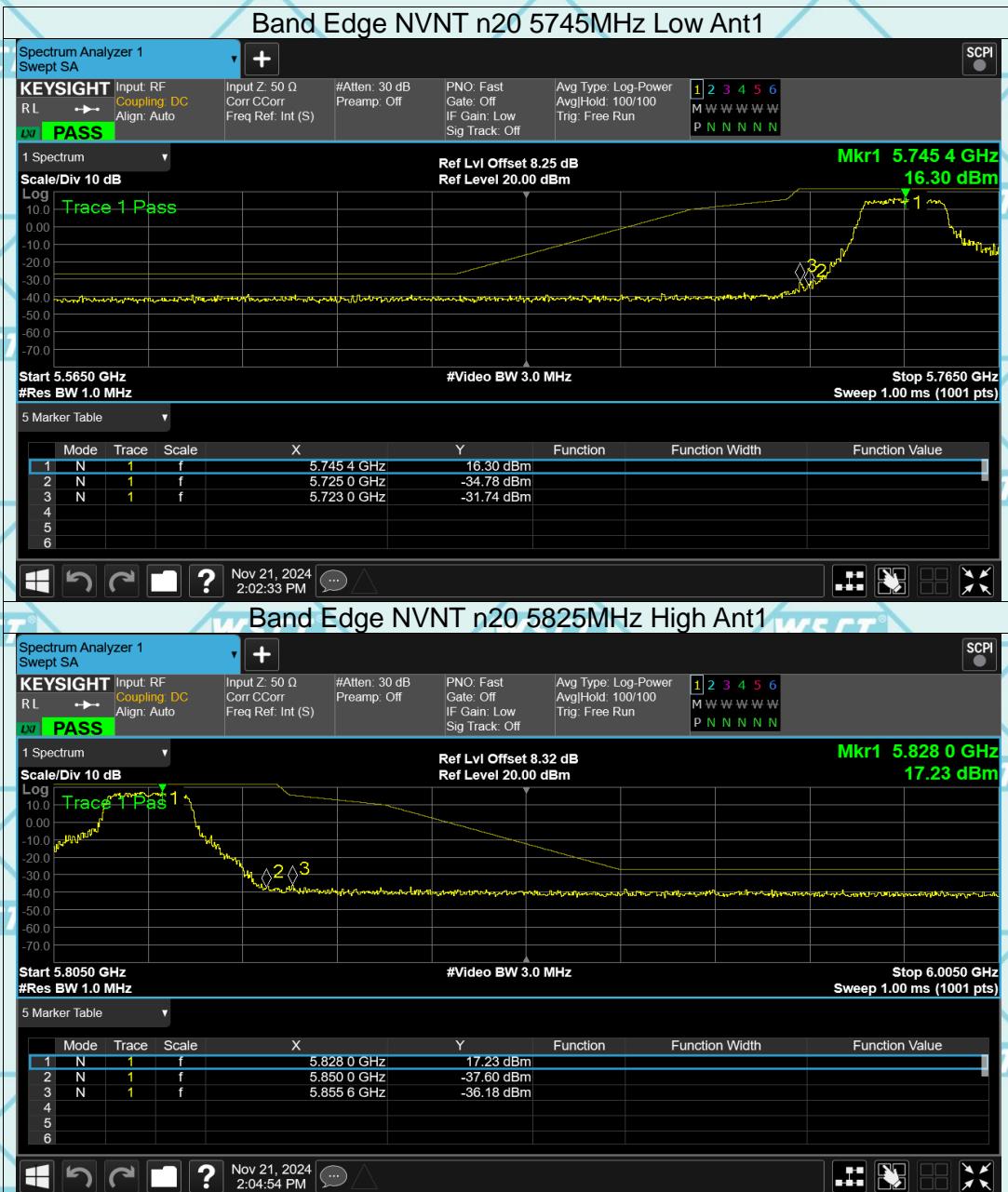


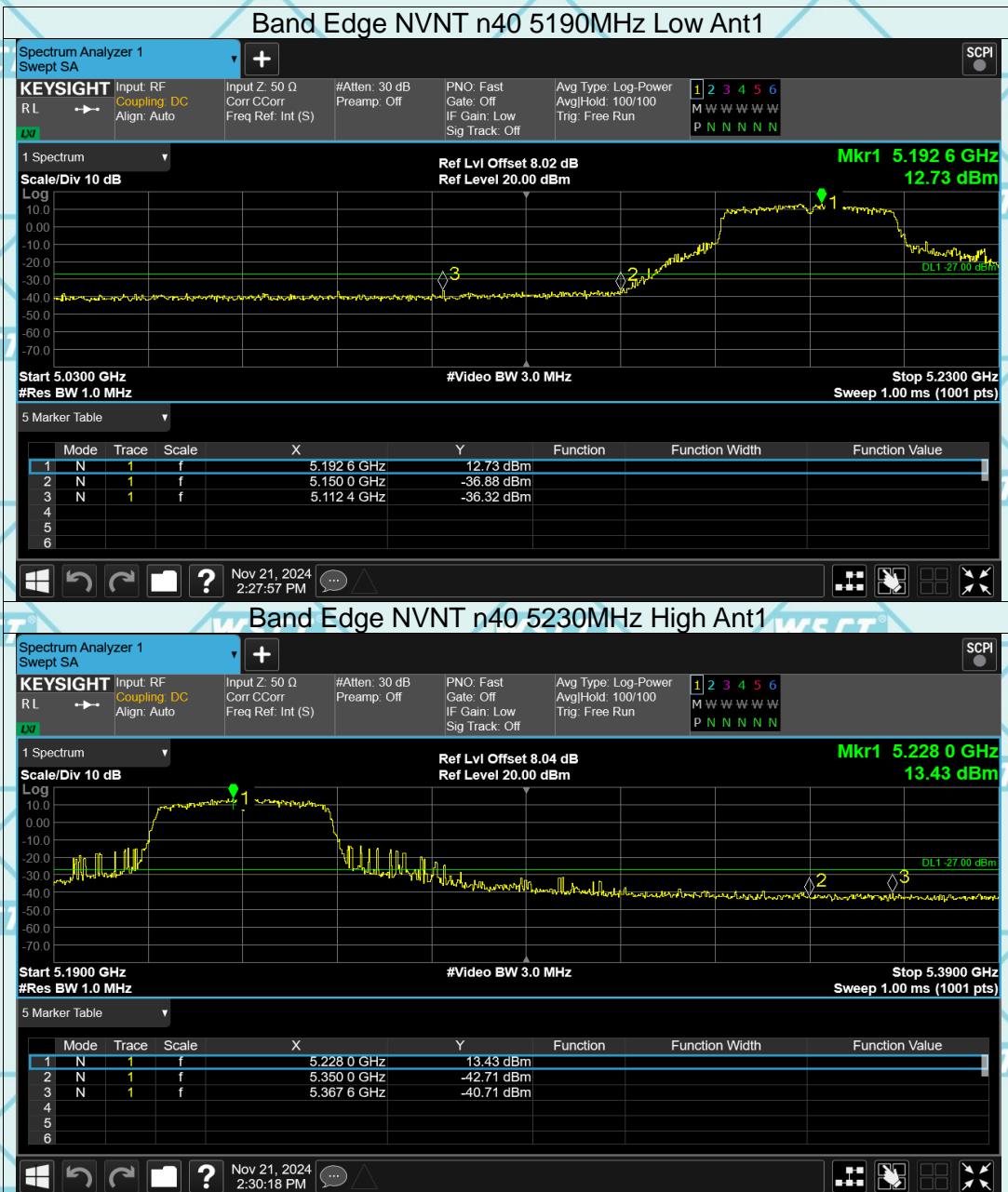


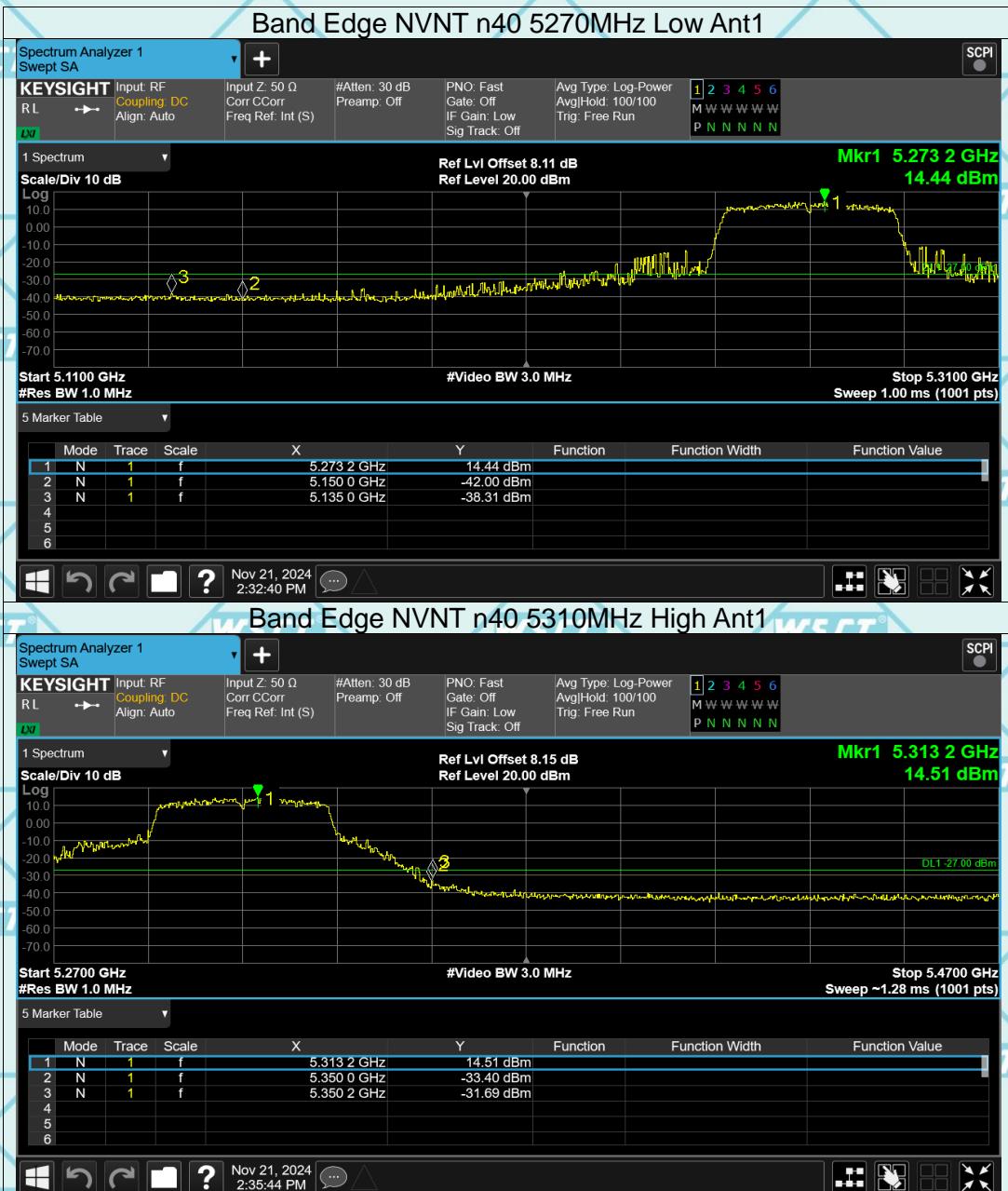


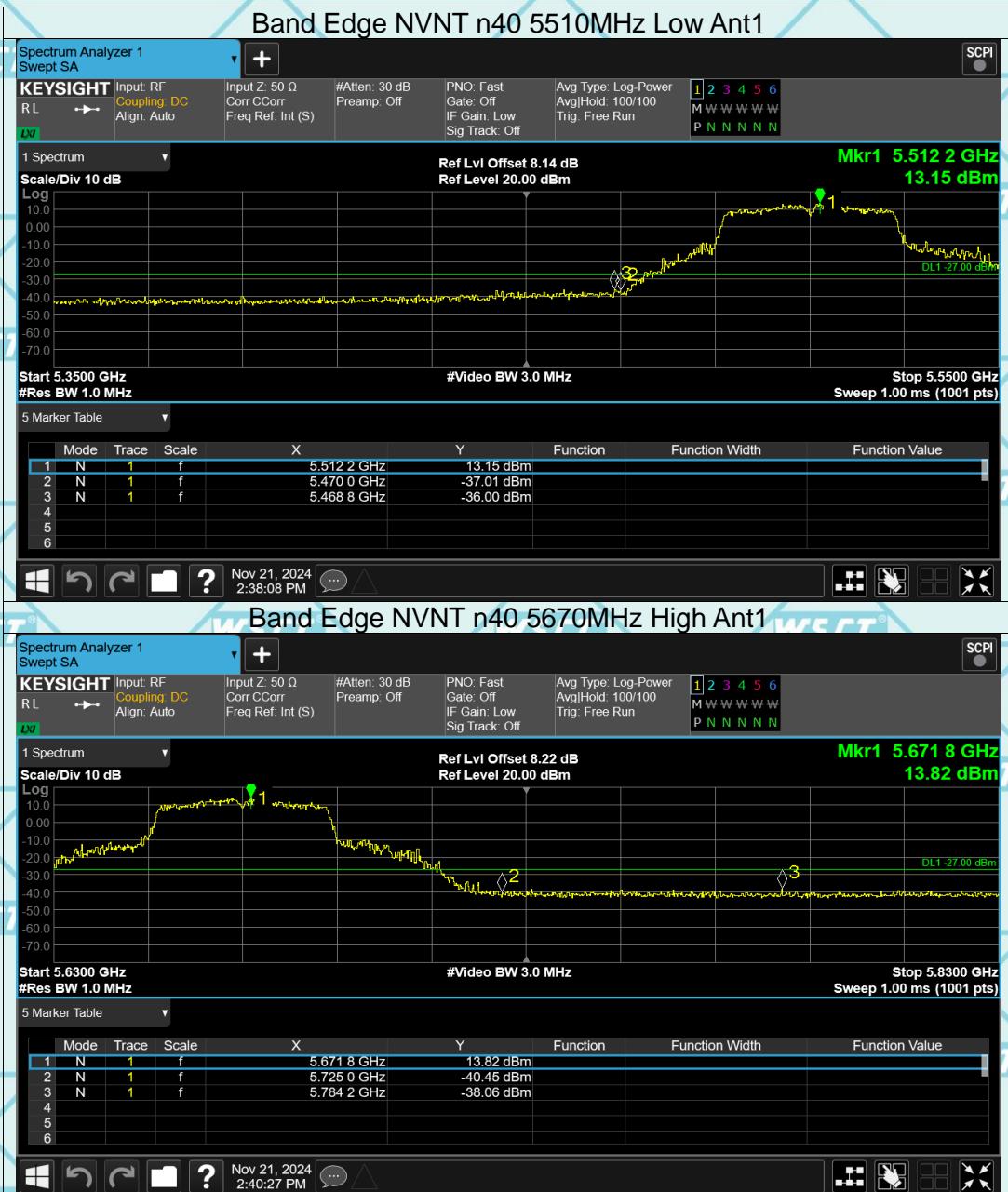


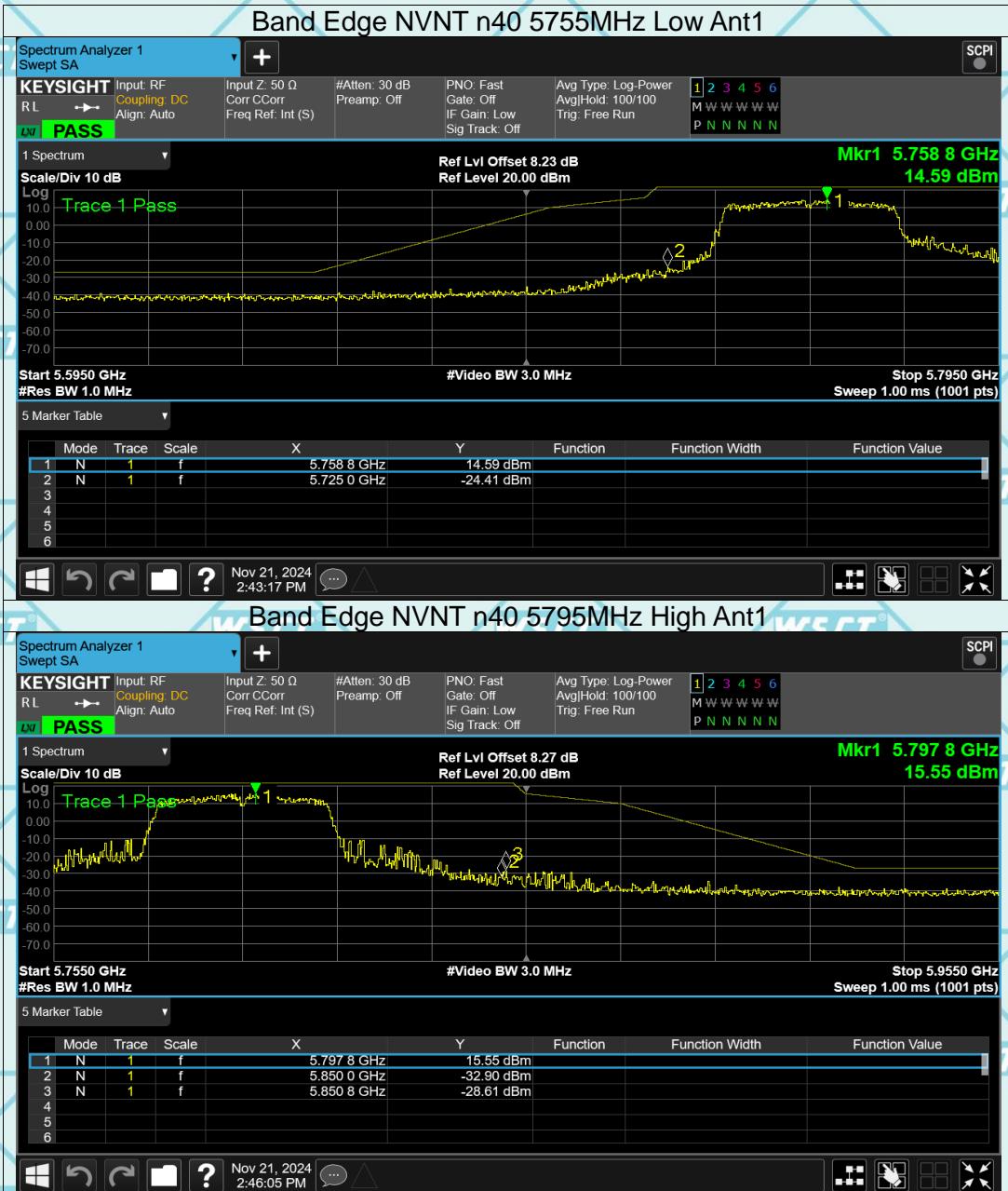












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