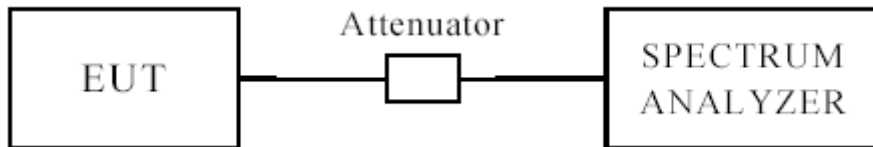




8.0 Peak Transmit Power Measurement

8.1 Test Setup



8.2 Limits of Peak Transmit Power Measurement

Operation Band	EUT Category		Limit
U-NII-1		Outdoor Access Point	1 Watt (30 dBm) \cong (Max. e.i.r.p 125mW (21 dBm) at any elevation angle above 30 degrees as measured from the horizon)
		Fixed point-to-point Access Point	1 Watt (30 dBm)
		Indoor Access Point	1 Watt (30 dBm)
	✓	Mobile and Portable client device	250mW (24 dBm)
U-NII-2A	--		250mW (24 dBm) or 11 dBm+10 log B*
U-NII-2C	--		250mW (24 dBm) or 11 dBm+10 log B*
U-NII-3	✓		1 Watt (30 dBm)

8.3 Test Procedure

The RF power output was measured with a Spectrum analyzer connected to the RF Antenna connector (conducted measurement) while EUT was operating in transmit mode at the appropriate centre frequency.

Note: the average power was measured

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8.4 Test Results

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	7.29	0	7.29	24	Pass
		5200		6.27	0	6.27	24	Pass
		5240		6.57	0	6.57	24	Pass
	n20	5180		6.9	0	6.9	24	Pass
		5200		1.55	0	1.55	24	Pass
		5240		6.53	0	6.53	24	Pass
	n40	5190		6.33	0	6.33	24	Pass
		5230		6.34	0	6.34	24	Pass
	ac20	5180		6.88	0	6.88	24	Pass
		5200		6.12	0	6.12	24	Pass
		5240		6.49	0	6.49	24	Pass
	ac40	5190		6.31	0	6.31	24	Pass
		5230		6.34	0	6.34	24	Pass
	ax20	5180		6.9	0	6.9	24	Pass
		5200		6.21	0	6.21	24	Pass
		5240		6.53	0	6.53	24	Pass
	ax40	5190		6.33	0	6.33	24	Pass
		5230		6.32	0	6.32	24	Pass

Note: 1. At final test to get the worst-case emission at 6Mbps for CH36, CH40, CH48, CH149, CH153 and CH161

2. The result basic equation calculation as follow:

$$\text{Average Power Output} = \text{AV Power Reading} + \text{Cable loss} + \text{Attenuator}$$

3. The worse case was recorded

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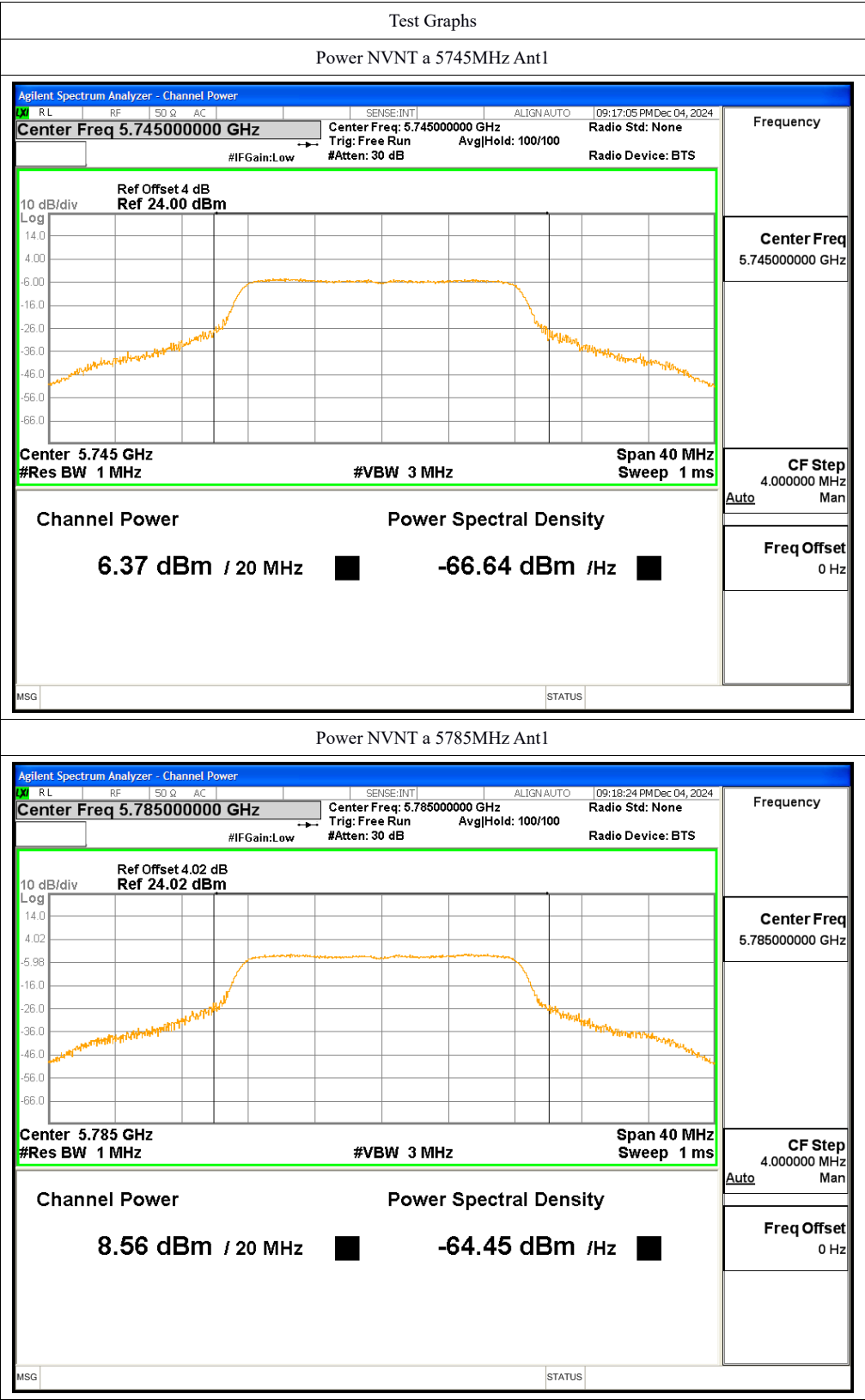
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	Ant1	6.37	0.16	6.53	30	Pass
		5785		8.56	0.23	8.79	30	Pass
		5825		6.52	0.2	6.72	30	Pass
	n20	5745		8.27	0.31	8.58	30	Pass
		5785		8.26	0.39	8.65	30	Pass
		5825		8.63	0.29	8.92	30	Pass
	n40	5755		7.78	0.64	8.42	30	Pass
		5795		8.28	0.23	8.51	30	Pass
	ac20	5745		8.12	0.37	8.49	30	Pass
		5785		8.42	0.35	8.77	30	Pass
		5825		8.51	0.27	8.78	30	Pass
	ac40	5755		7.6	0.46	8.06	30	Pass
		5795		8.2	0.69	8.89	30	Pass
	ax20	5745		8.22	0.36	8.58	30	Pass
		5785		8.42	0.12	8.54	30	Pass
		5825		8.52	0.3	8.82	30	Pass
	ax40	5755		7.46	0.7	8.16	30	Pass
		5795		8.02	0.61	8.63	30	Pass

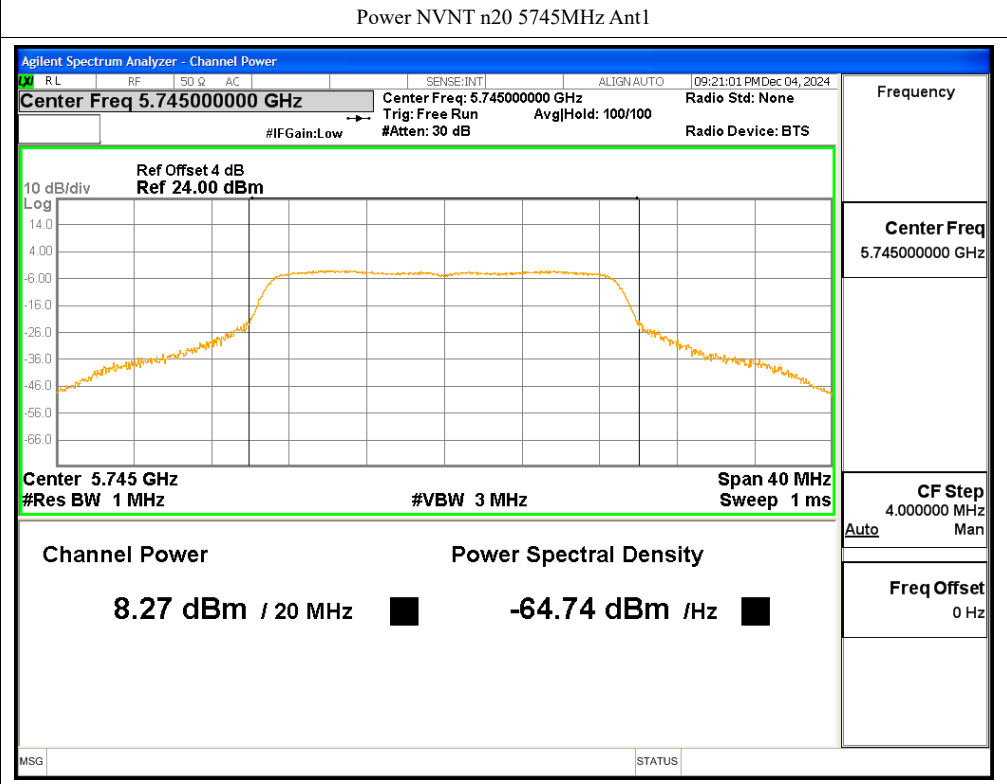
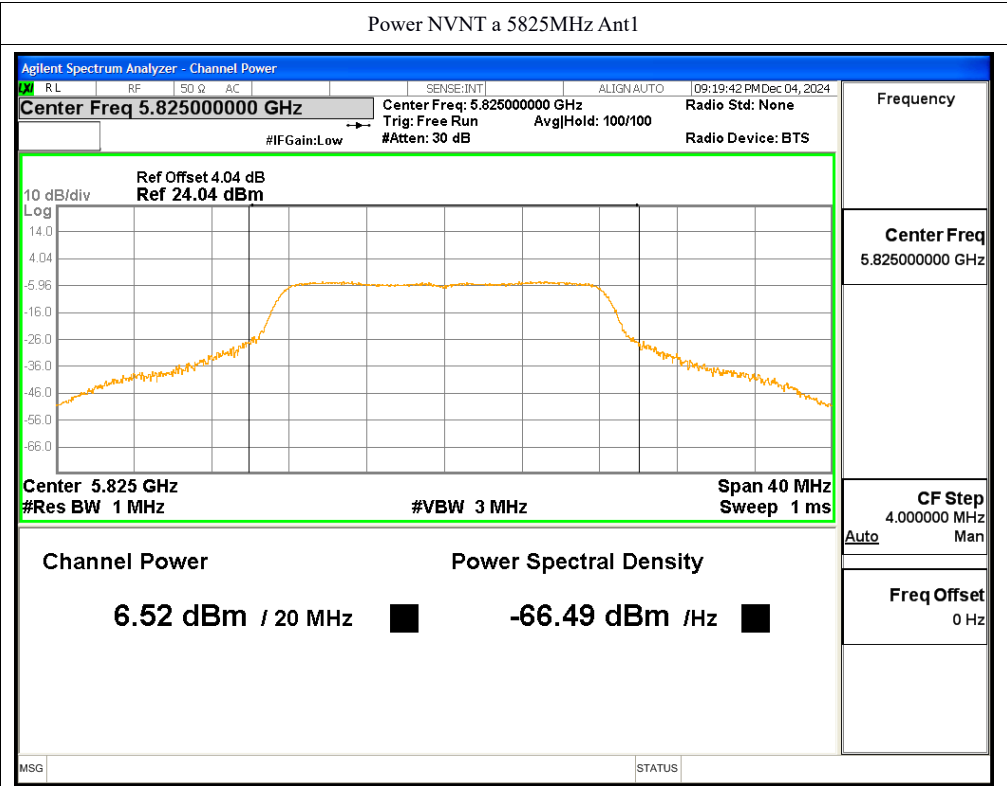
- Note: 1. At final test to get the worst-case emission at mcs0 for CH36, CH40, CH48, CH149, CH153 and CH161
2. The result basic equation calculation as follow:
Average Power Output = AV Power Reading + Cable loss + Attenuator
3. The worse case was recorded

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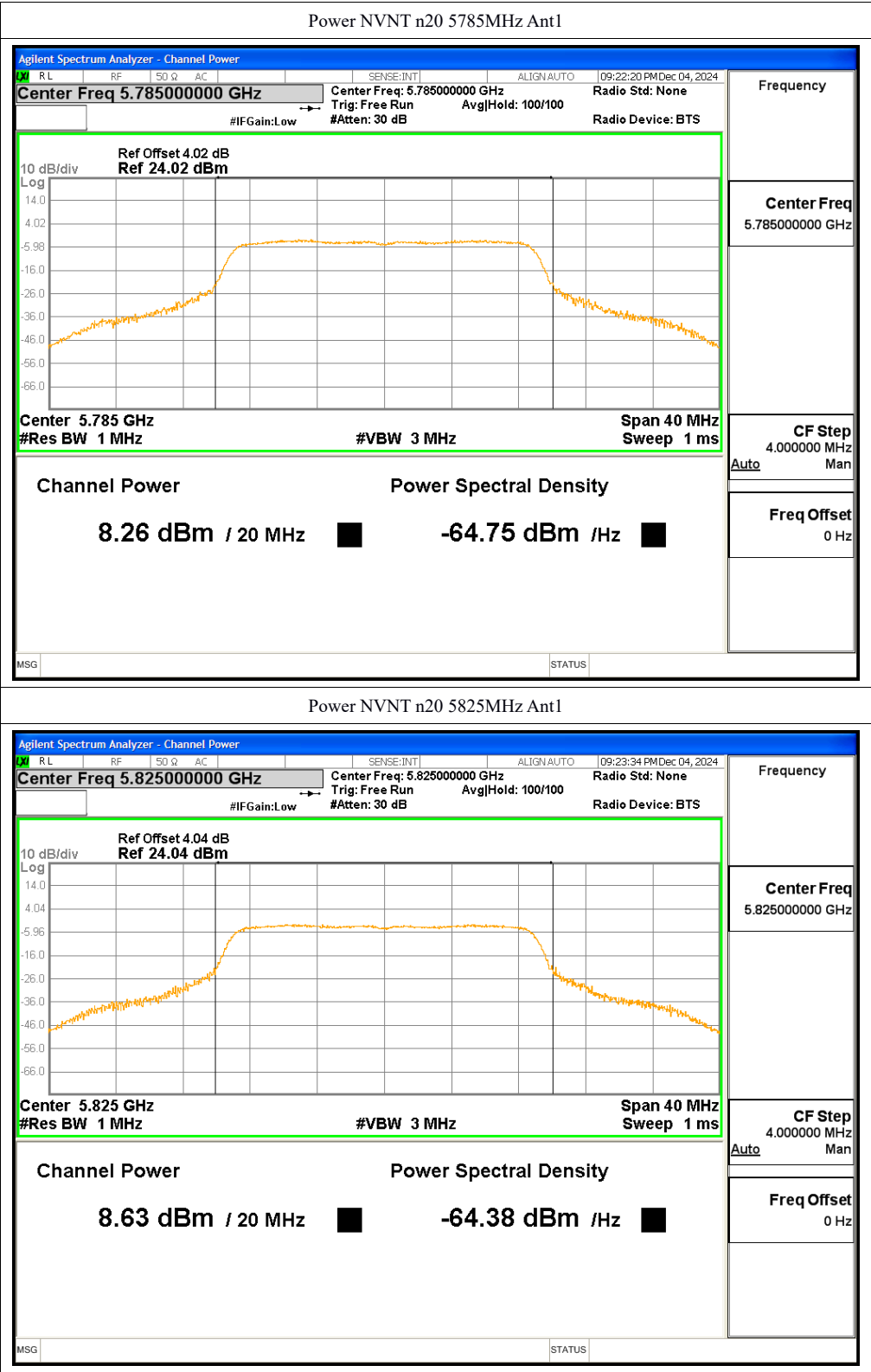




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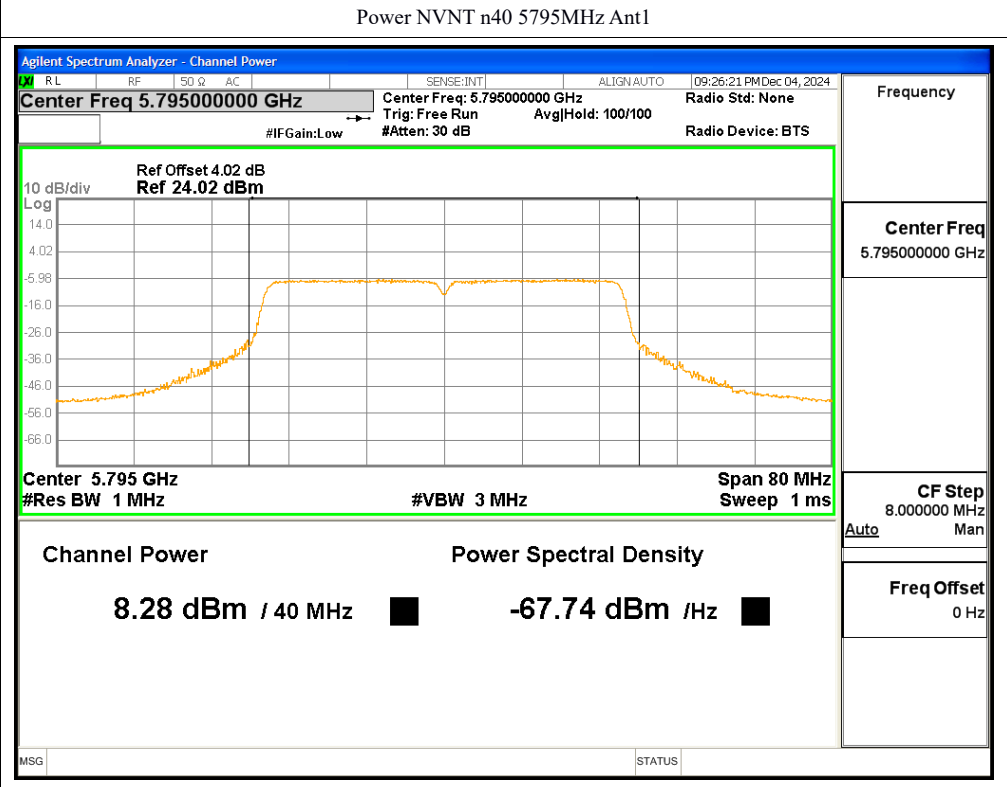
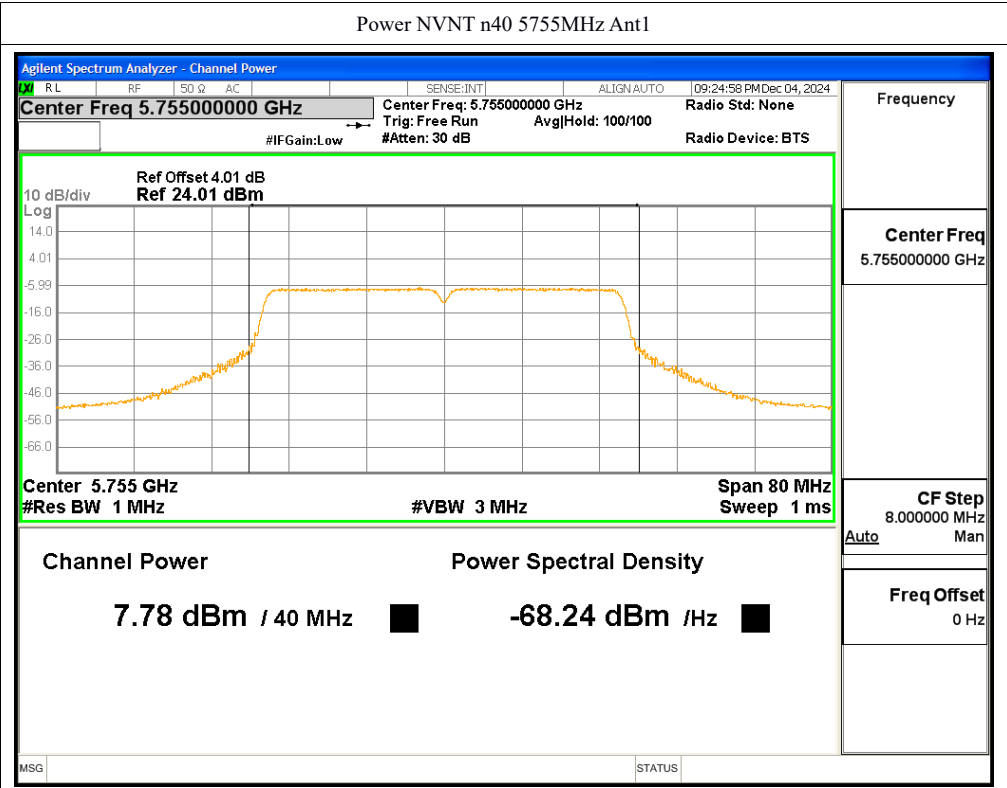
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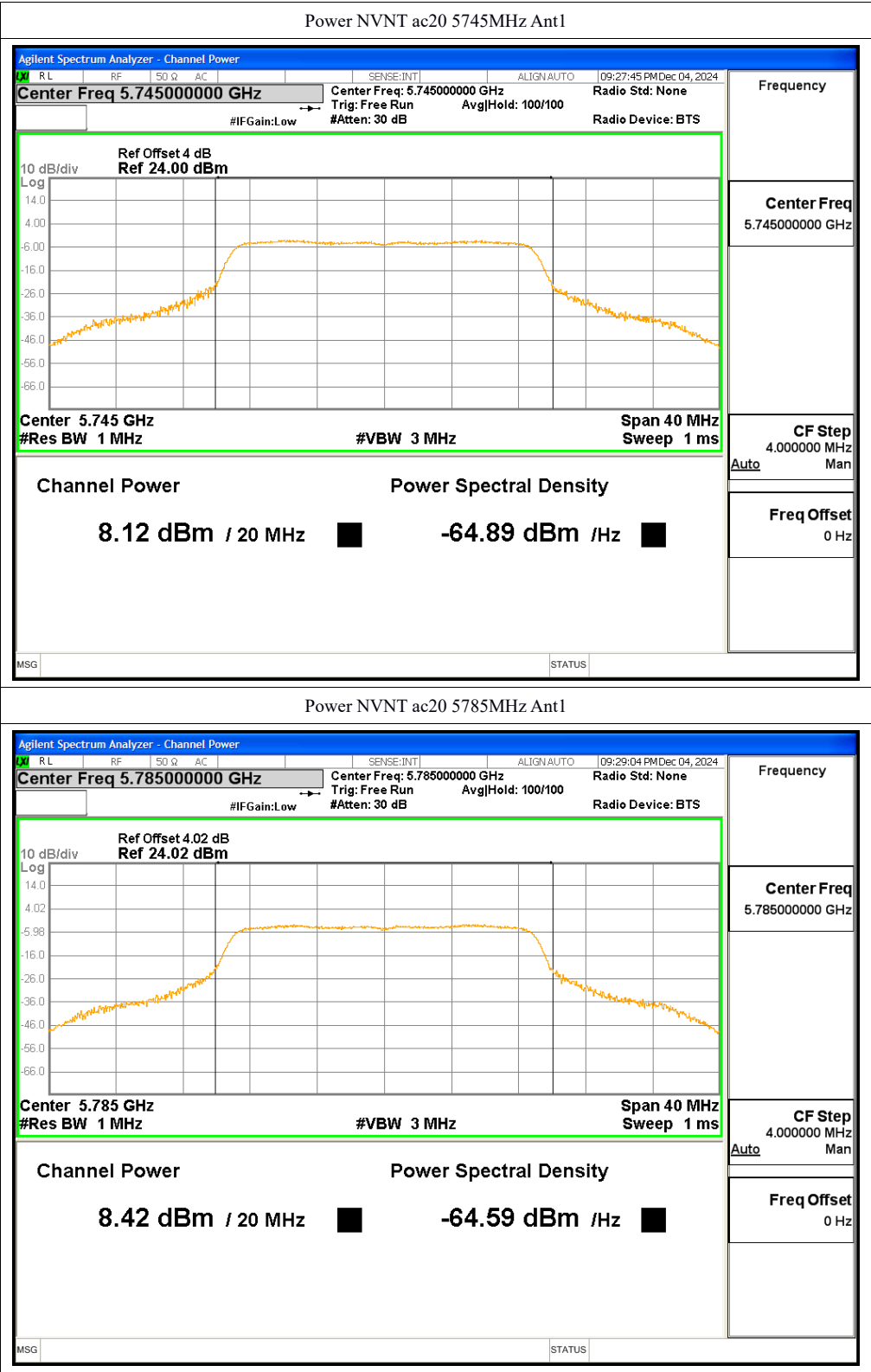
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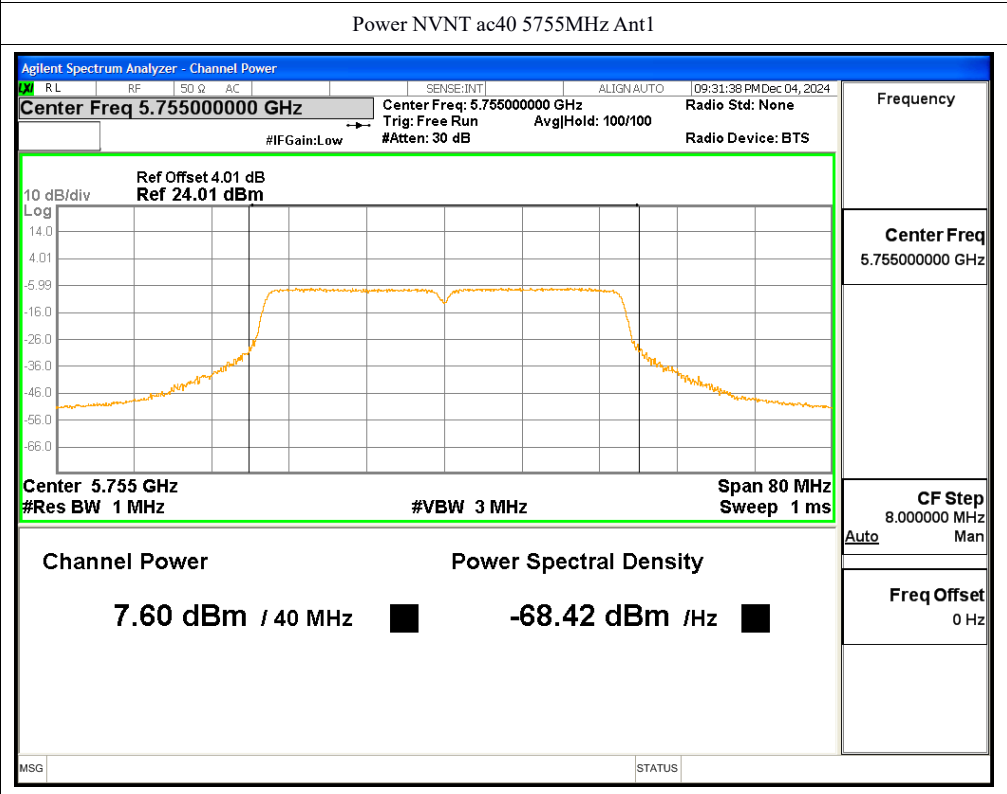
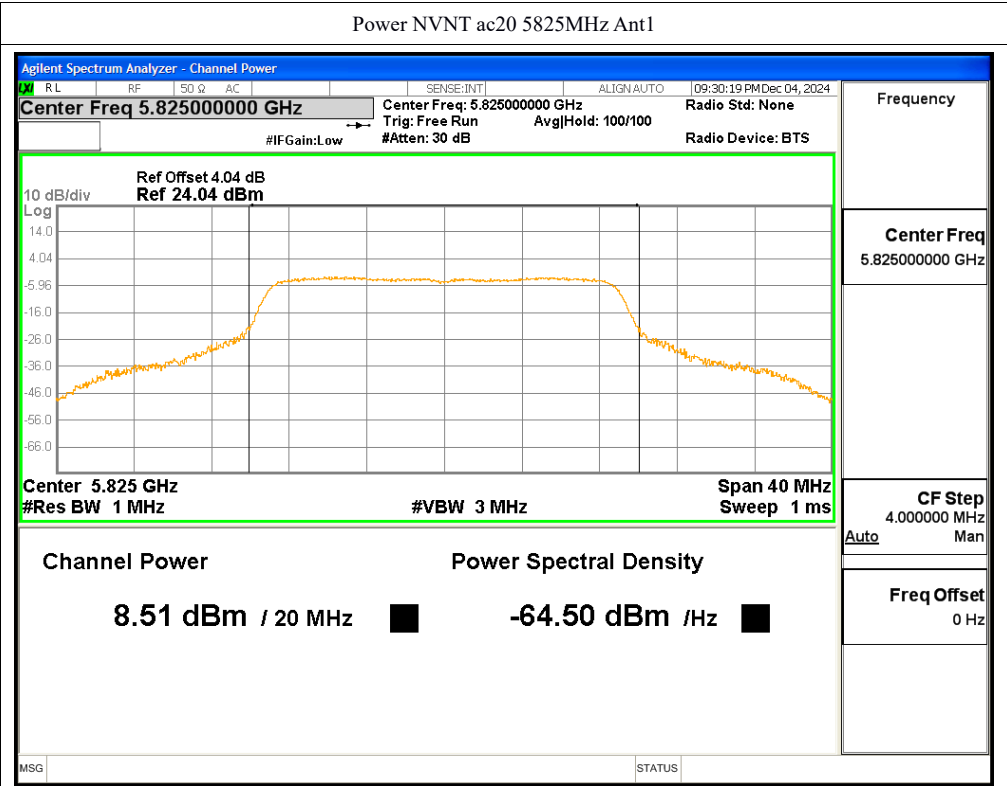
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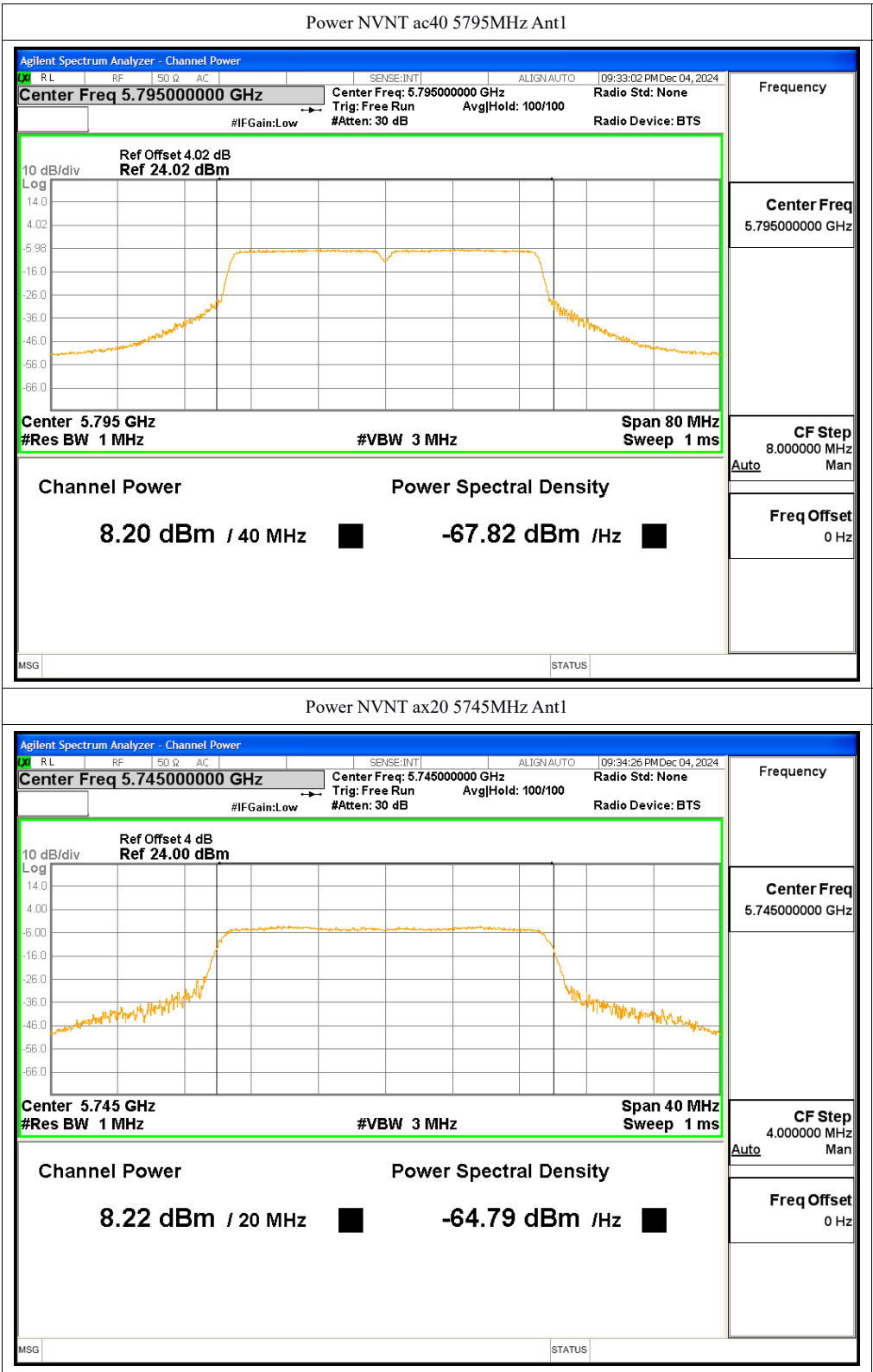
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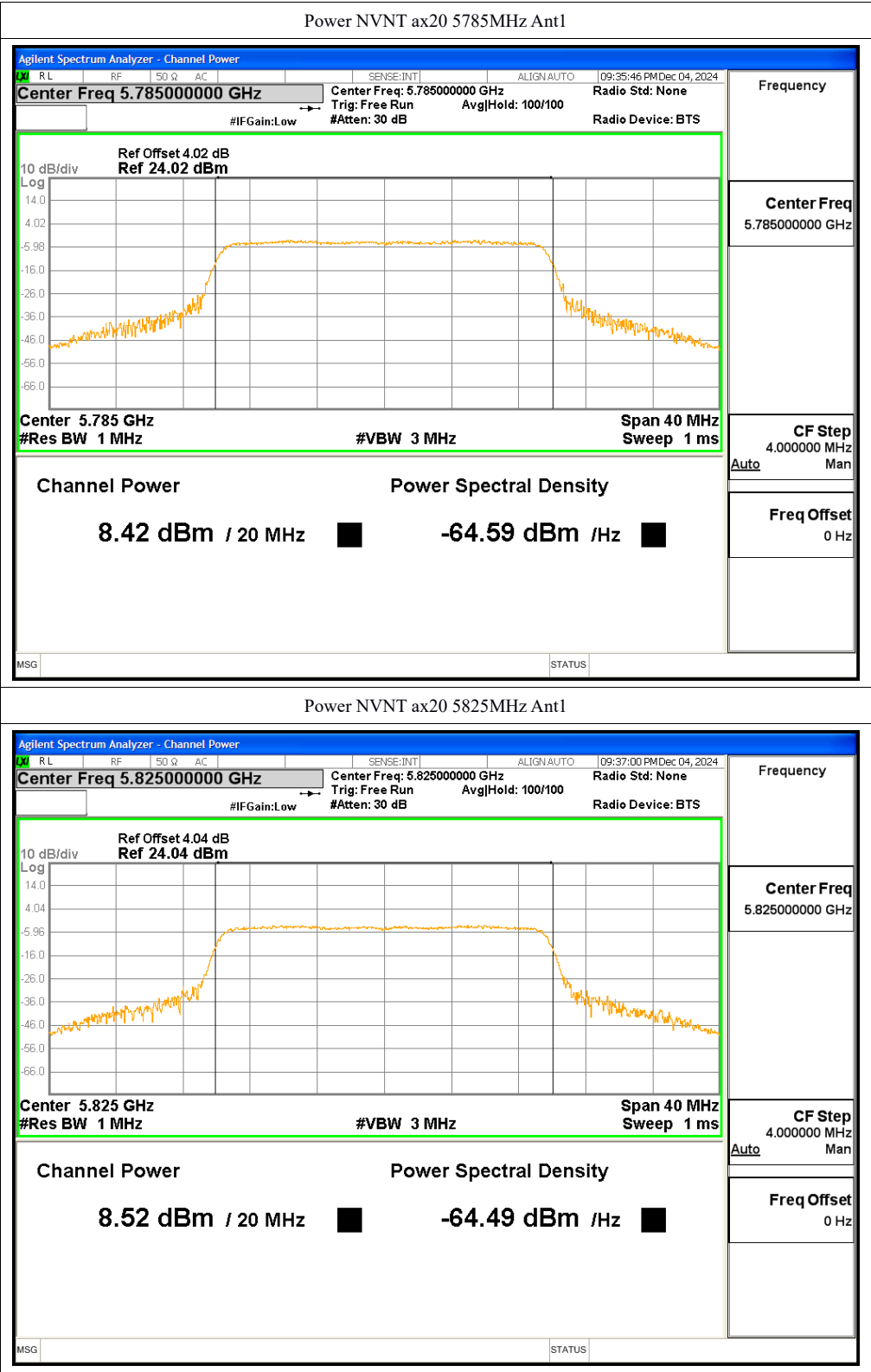
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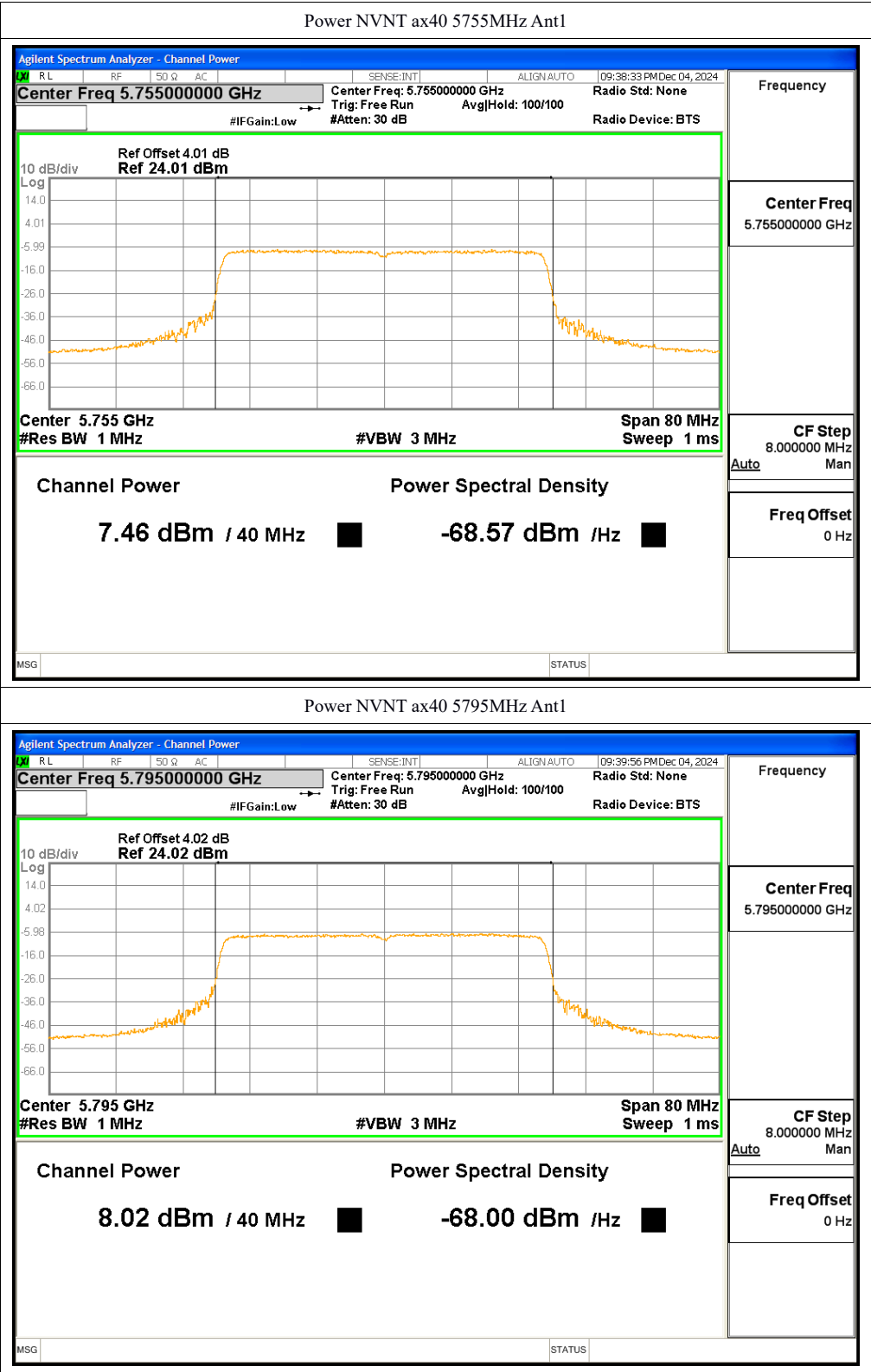
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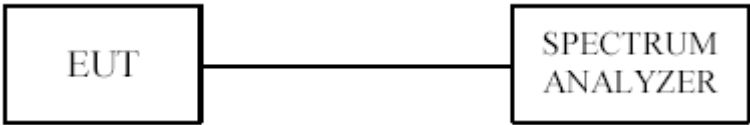
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9. Power Spectral Density Measurement

9.1 Test Setup



9.2 Limits of Power Spectral Density Measurement

Operation Band	EUT Category		Limit
U-NII-1		Outdoor Access Point	17dBm/MHz
		Fixed point-to-point Access Point	
		Indoor Access Point	
	√	Mobile and Portable client device	11dBm/MHz
U-NII-2A	--		11dBm/MHz
U-NII-2C	--		11dBm/MHz
U-NII-3	√		30dBm/500kHz

9.3 Test Procedure

1. The EUT was directly connected to the spectrum analyzer
2. Set the RBW = 1MHz or 500kHz
3. Set the VBW =3MHz or 2MHz
4. Set the span to encompass the entire emissions bandwidth (EBW) of the signal
5. Detector = RMS
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level.

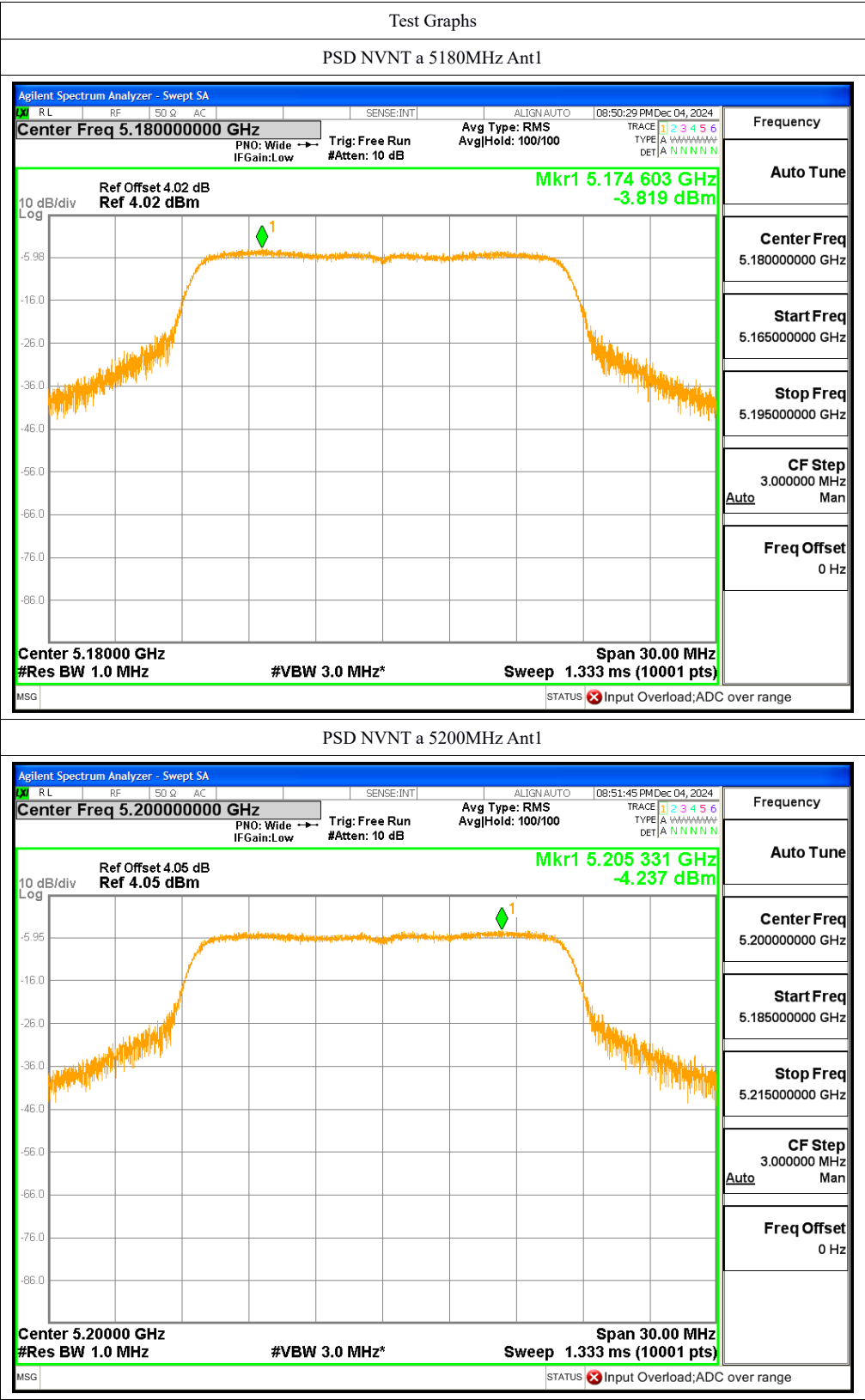
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9.4Test Result

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	-3.82	0.11	-3.71	11	Pass
		5200		-4.24	0.36	-3.88	11	Pass
		5240		-4.67	0.29	-4.38	11	Pass
	n20	5180		-4.32	0.11	-4.21	11	Pass
		5200		-9.14	0.29	-8.85	11	Pass
		5240		-4.51	0.15	-4.36	11	Pass
	n40	5190		-8.03	0.27	-7.76	11	Pass
		5230		-8.45	0.67	-7.78	11	Pass
	ac20	5180		-4.06	0.21	-3.85	11	Pass
		5200		-4.55	0.3	-4.25	11	Pass
		5240		-4.76	0.29	-4.47	11	Pass
	ac40	5190		-7.89	0.68	-7.21	11	Pass
		5230		-8.23	0.22	-8.01	11	Pass
	ax20	5180		-4.51	1.63	-2.88	11	Pass
		5200		-4.65	0.49	-4.16	11	Pass
		5240		-5.09	0.12	-4.97	11	Pass
	ax40	5190		-8.15	0.28	-7.87	11	Pass
		5230		-8.43	0.23	-8.2	11	Pass

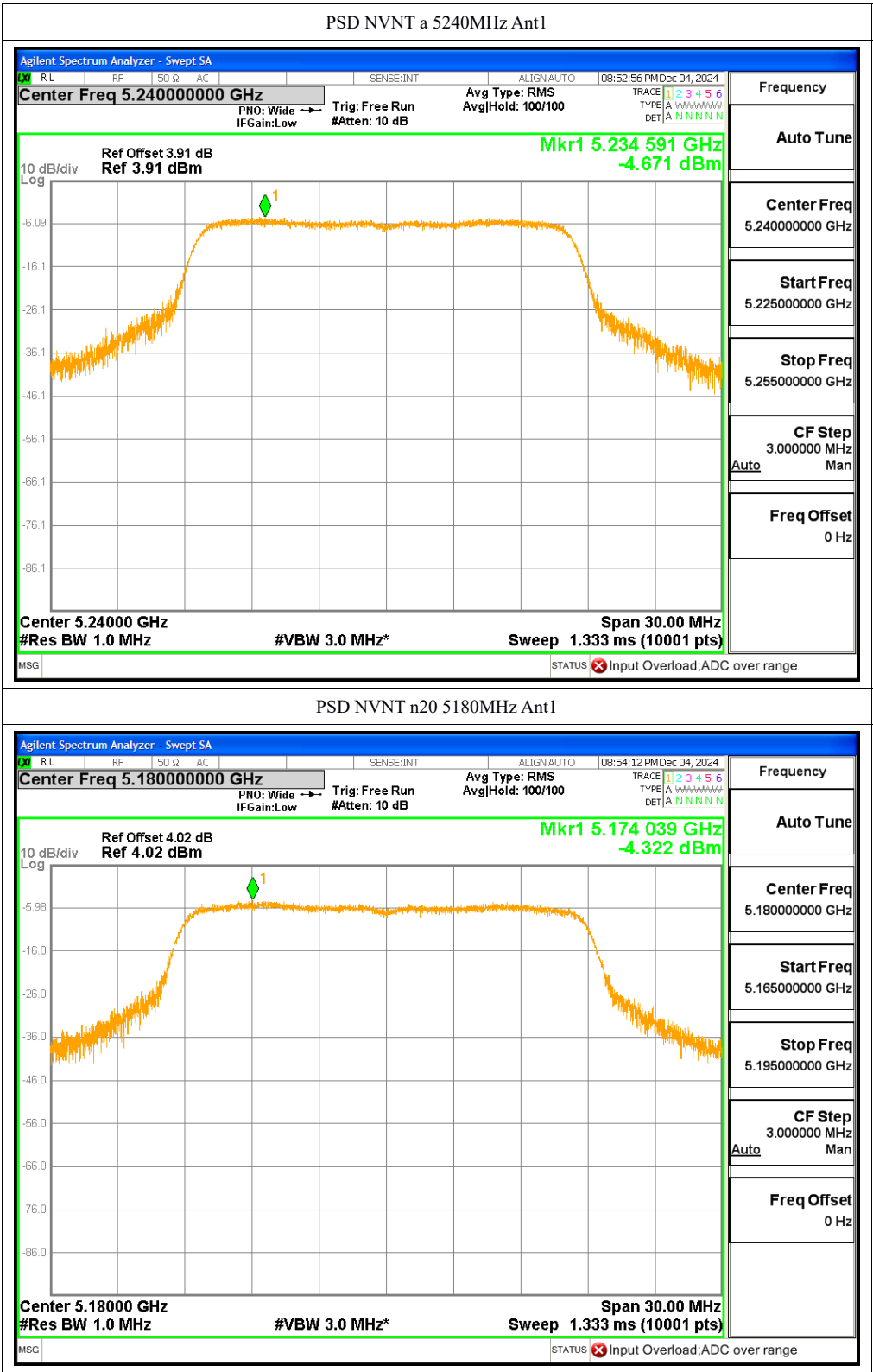
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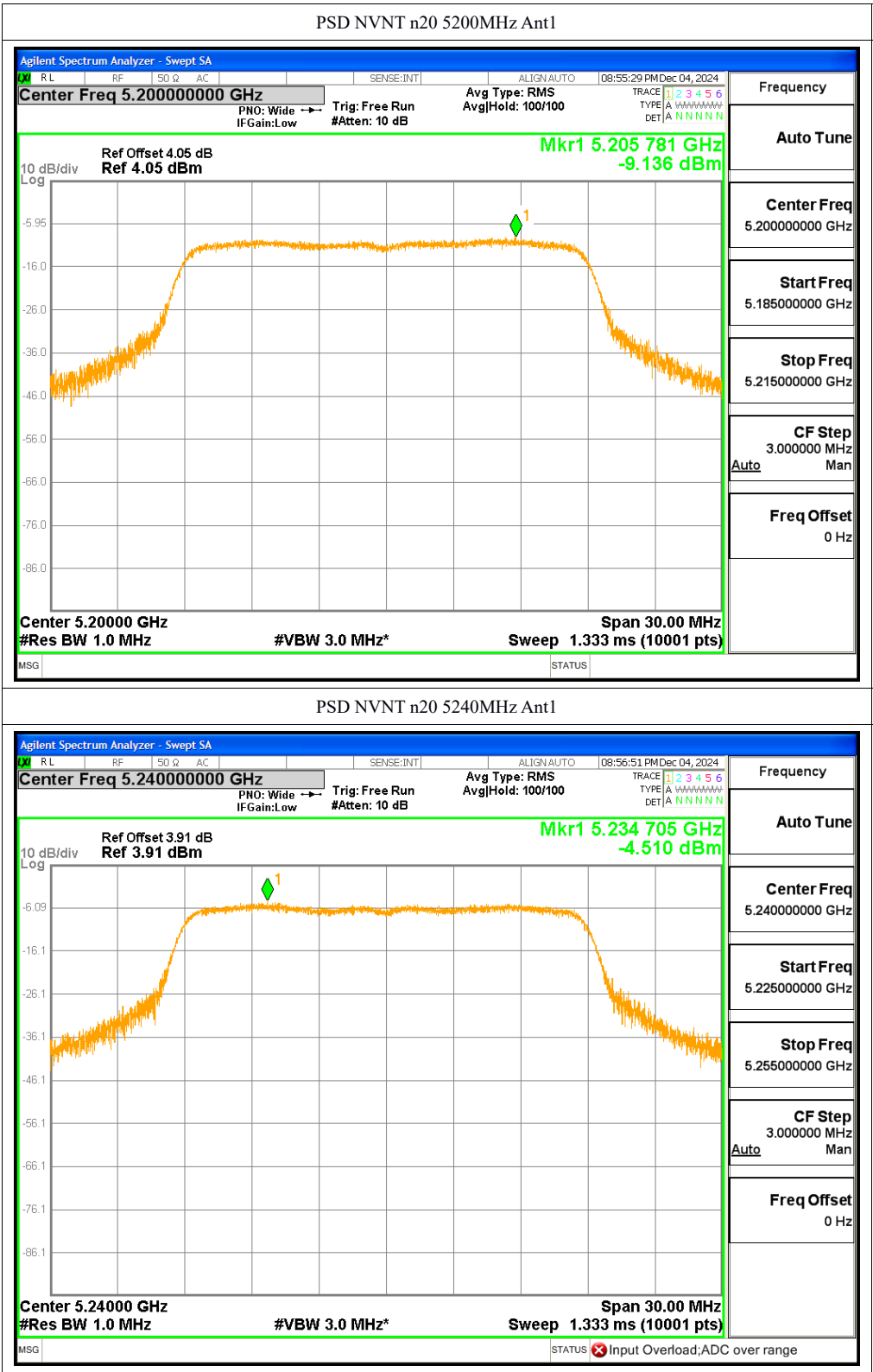
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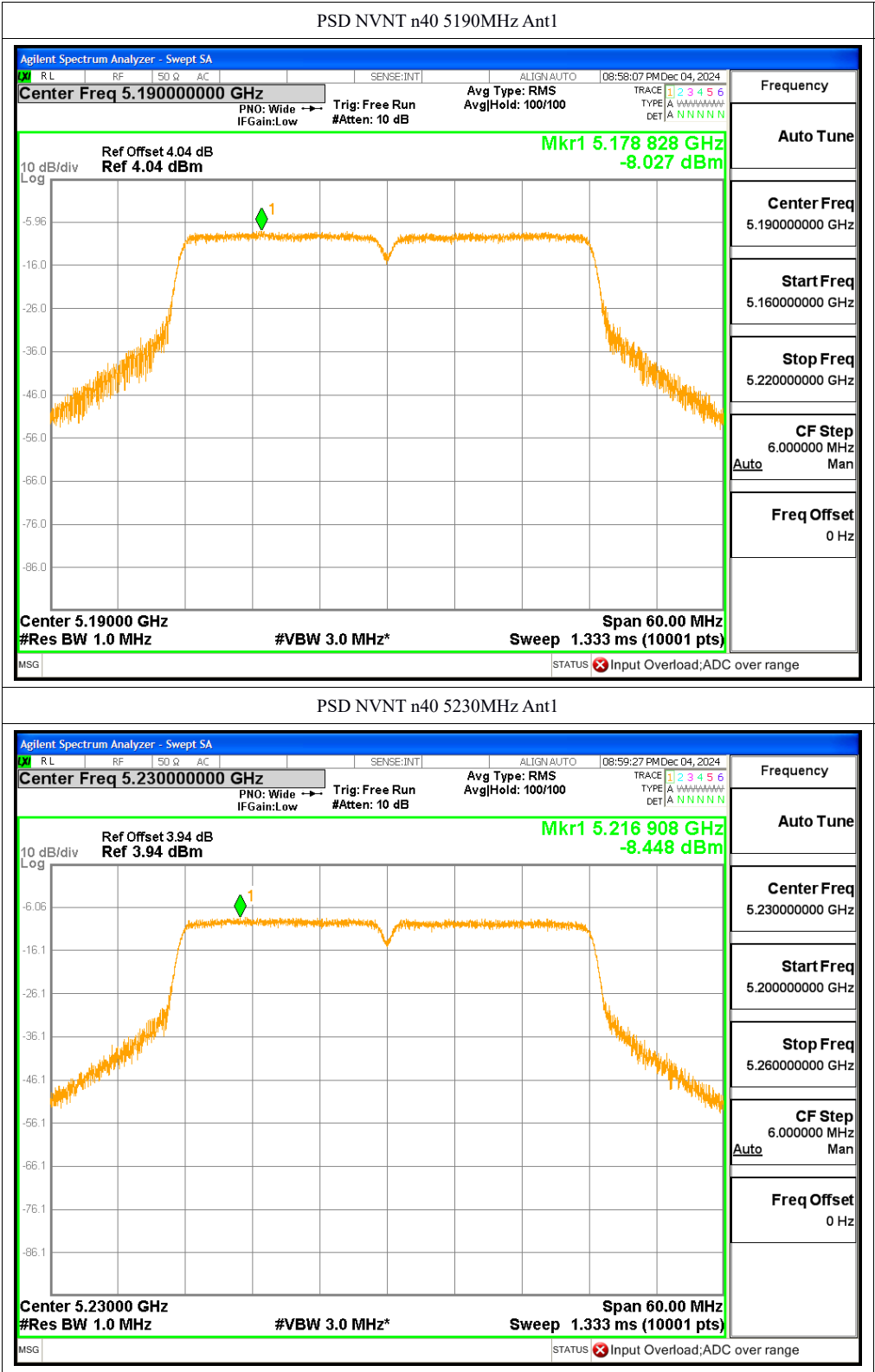
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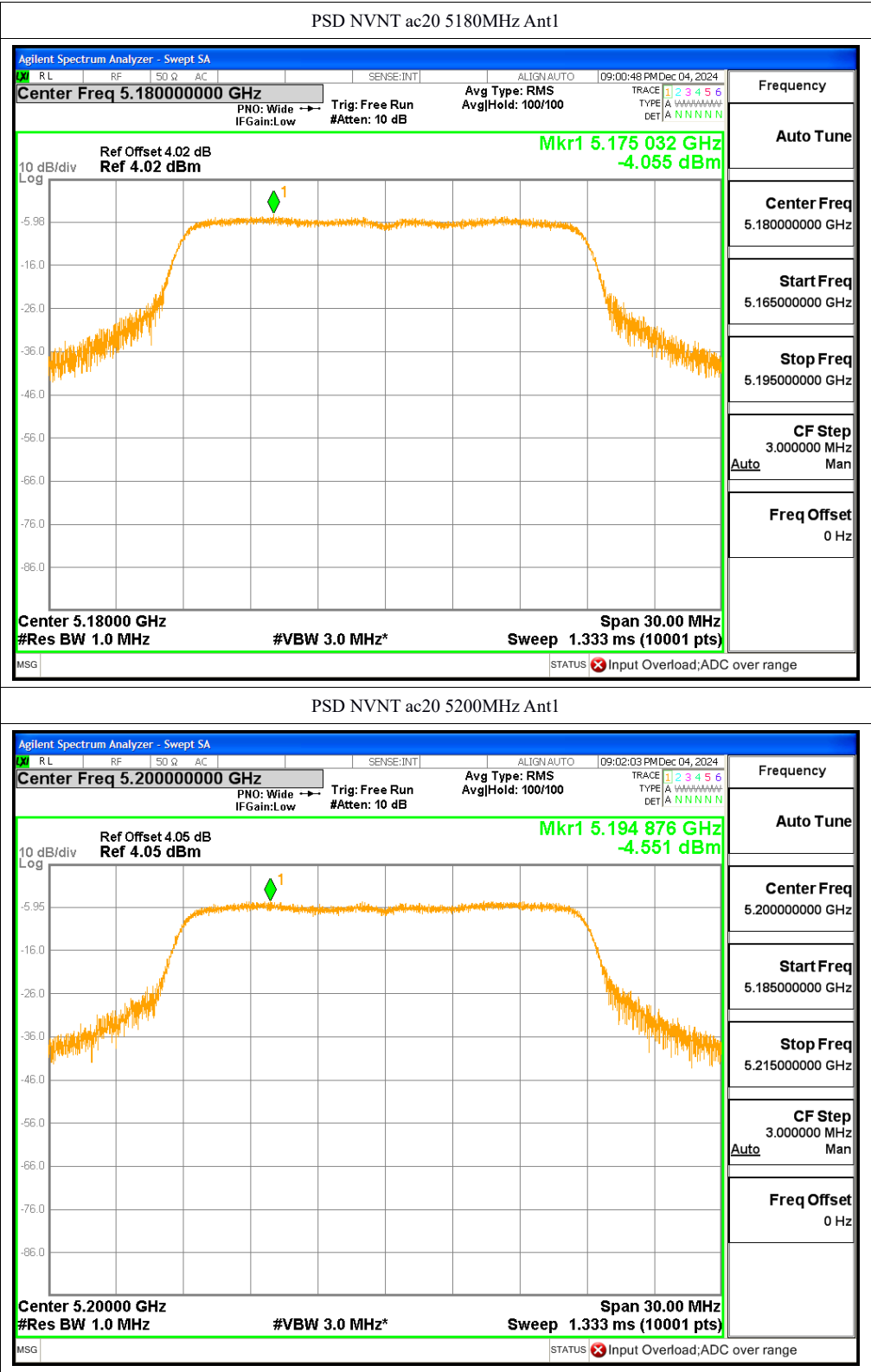
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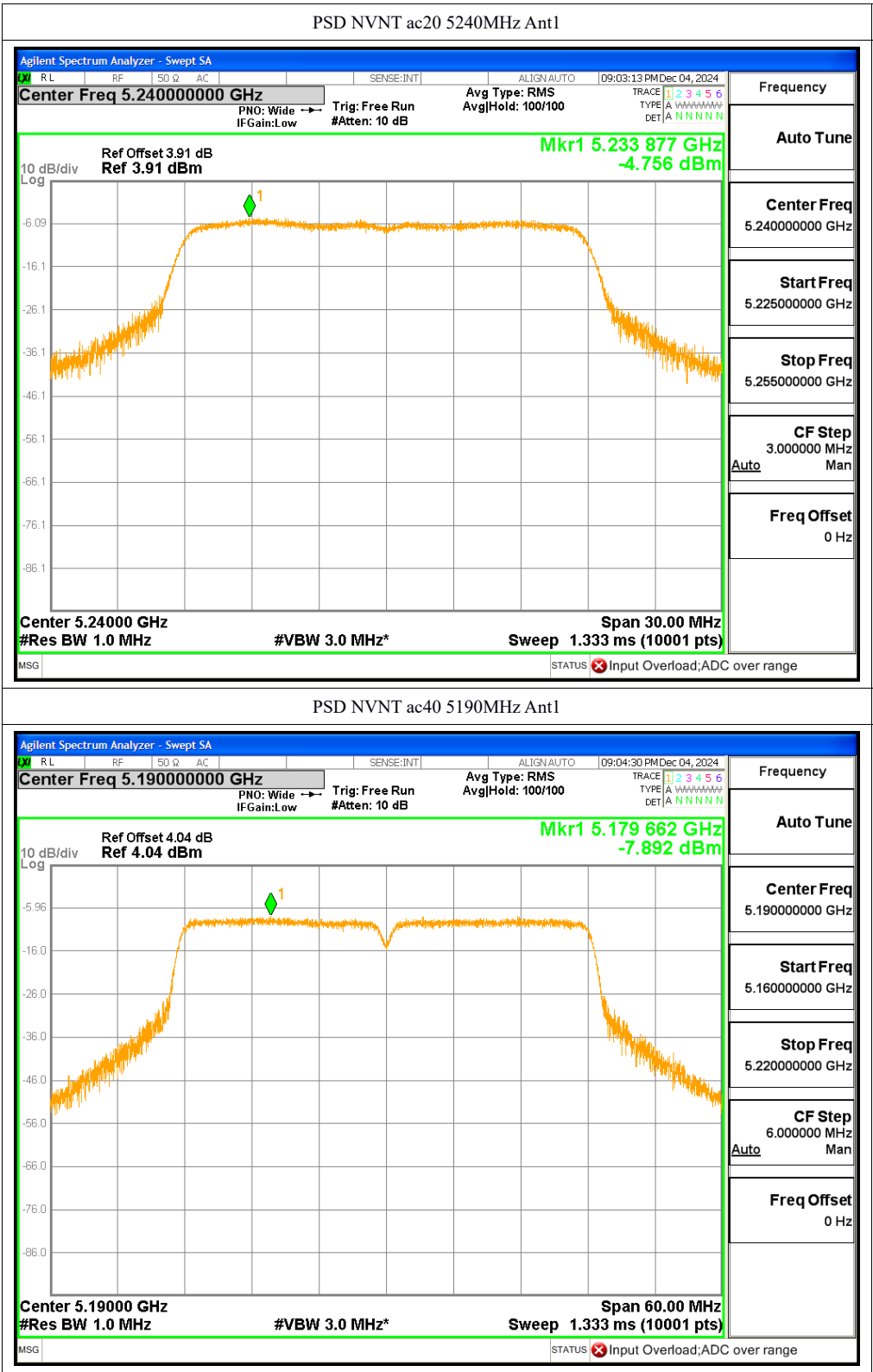
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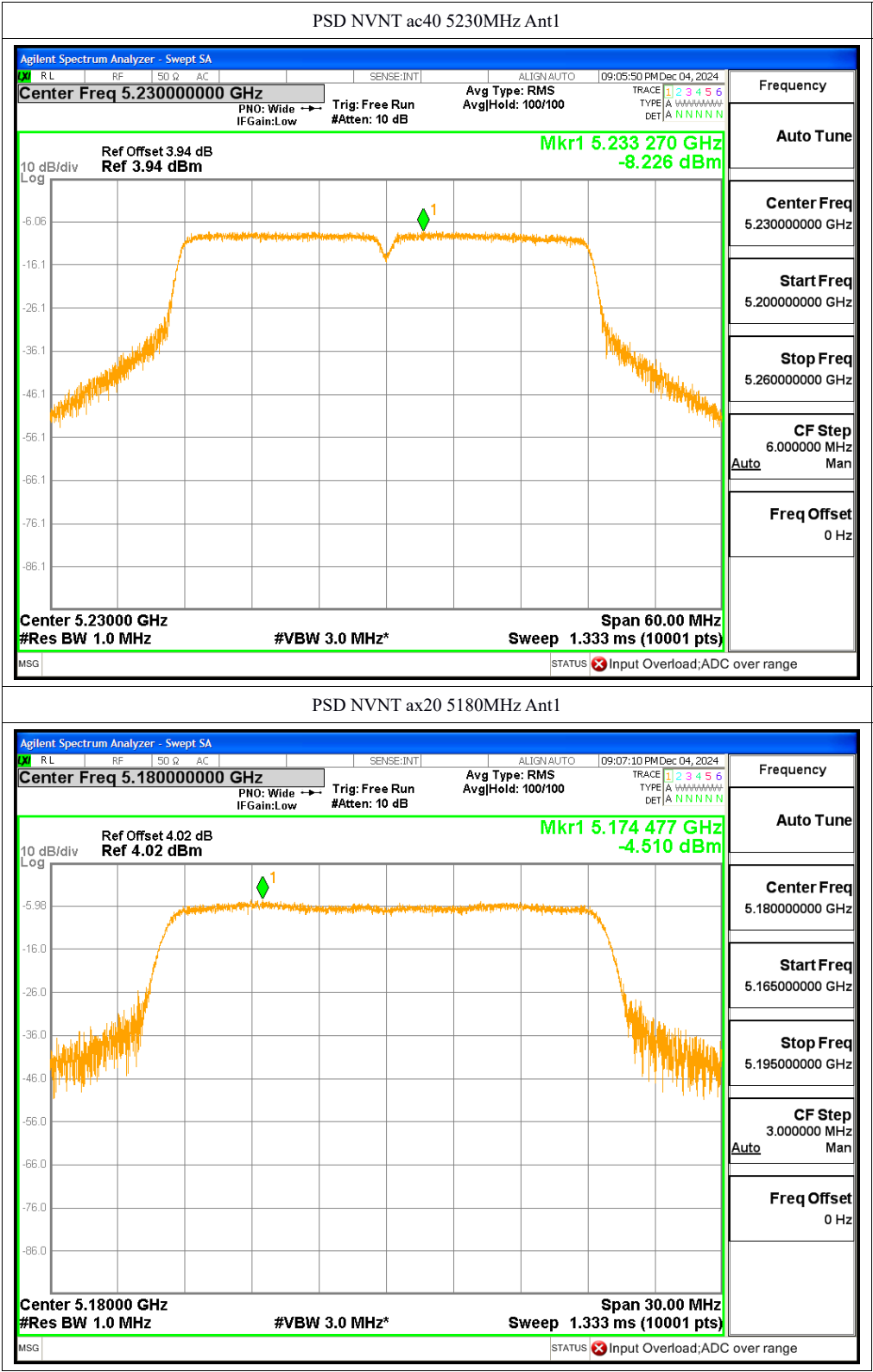
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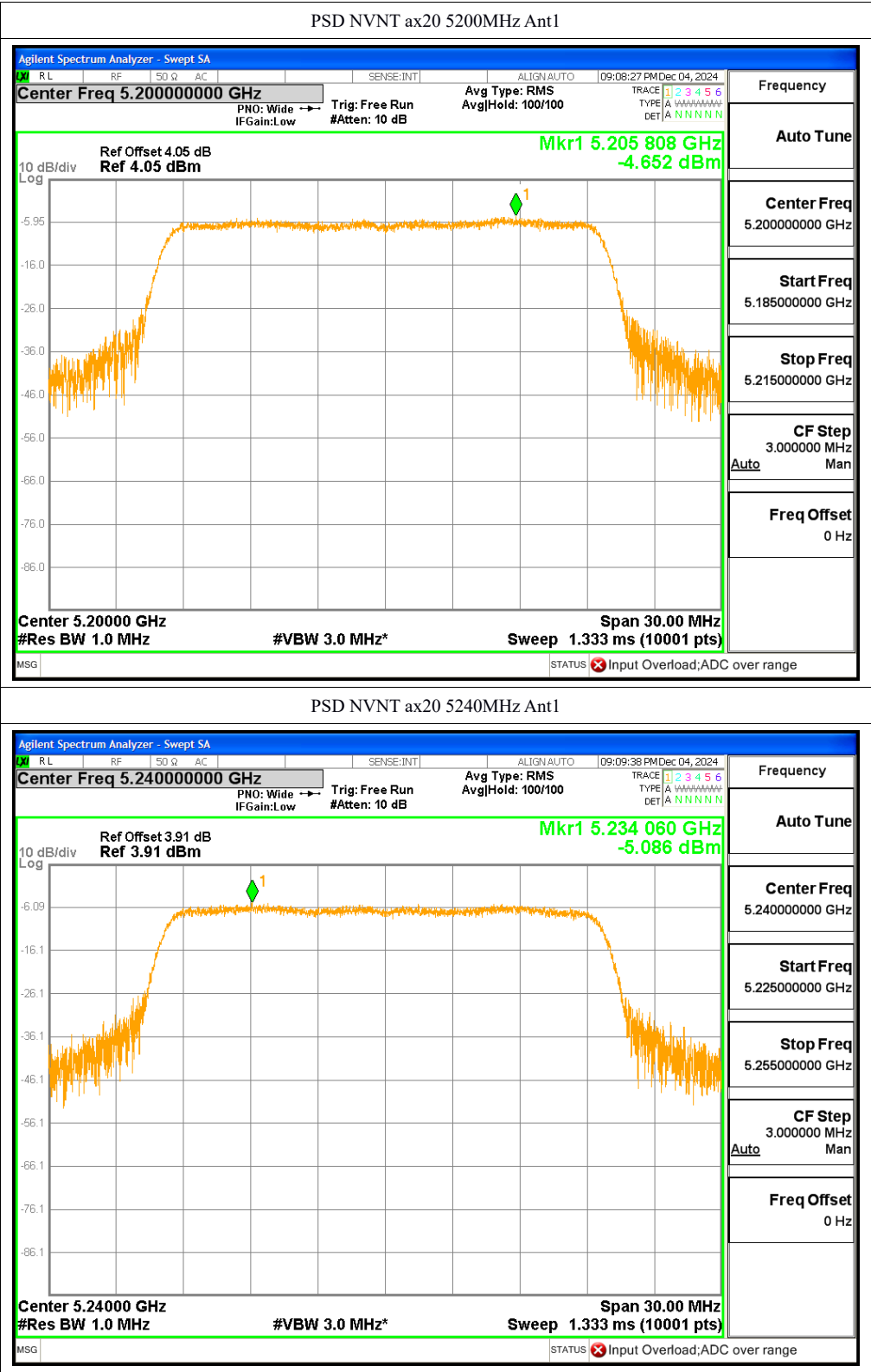
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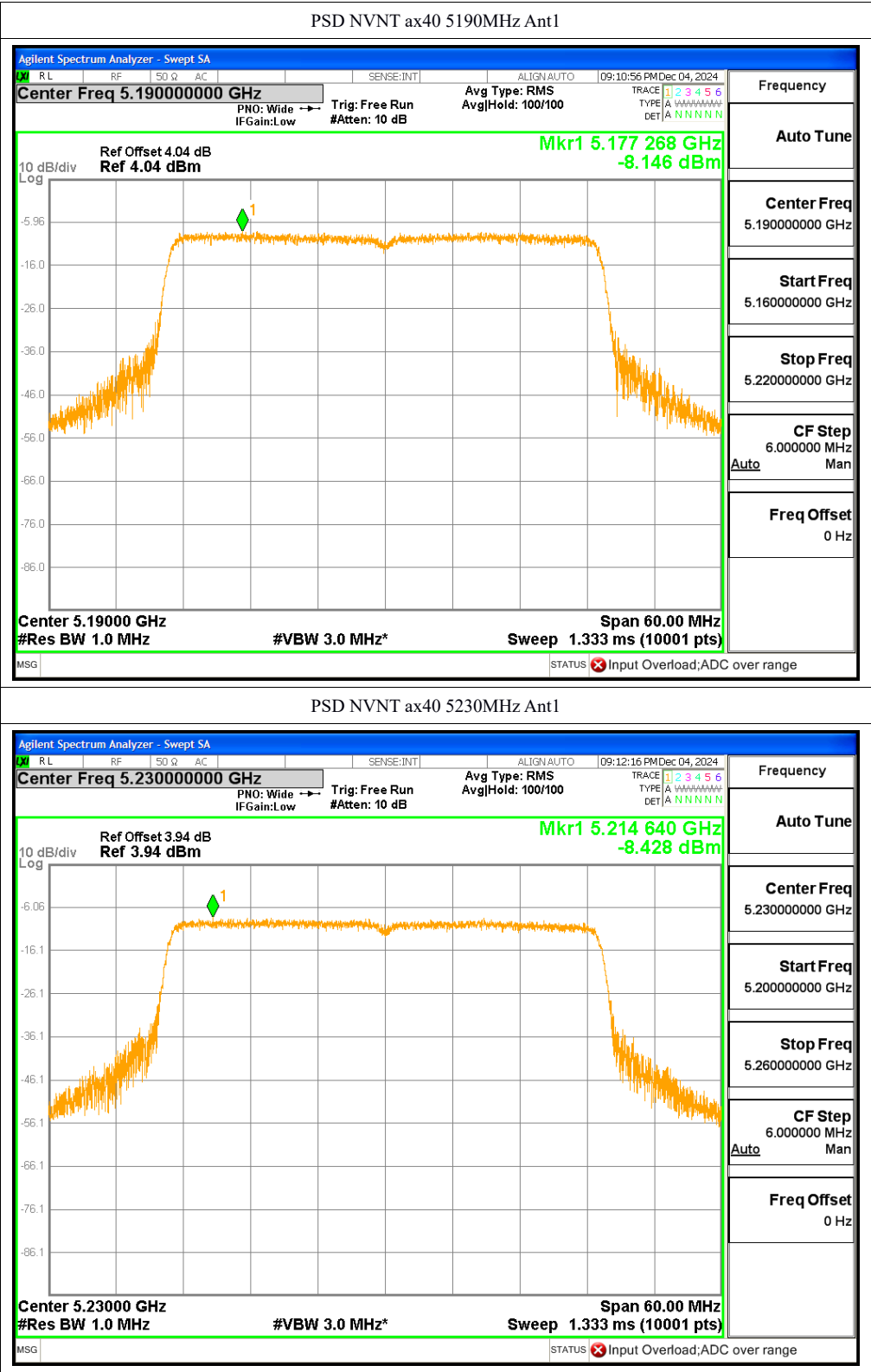
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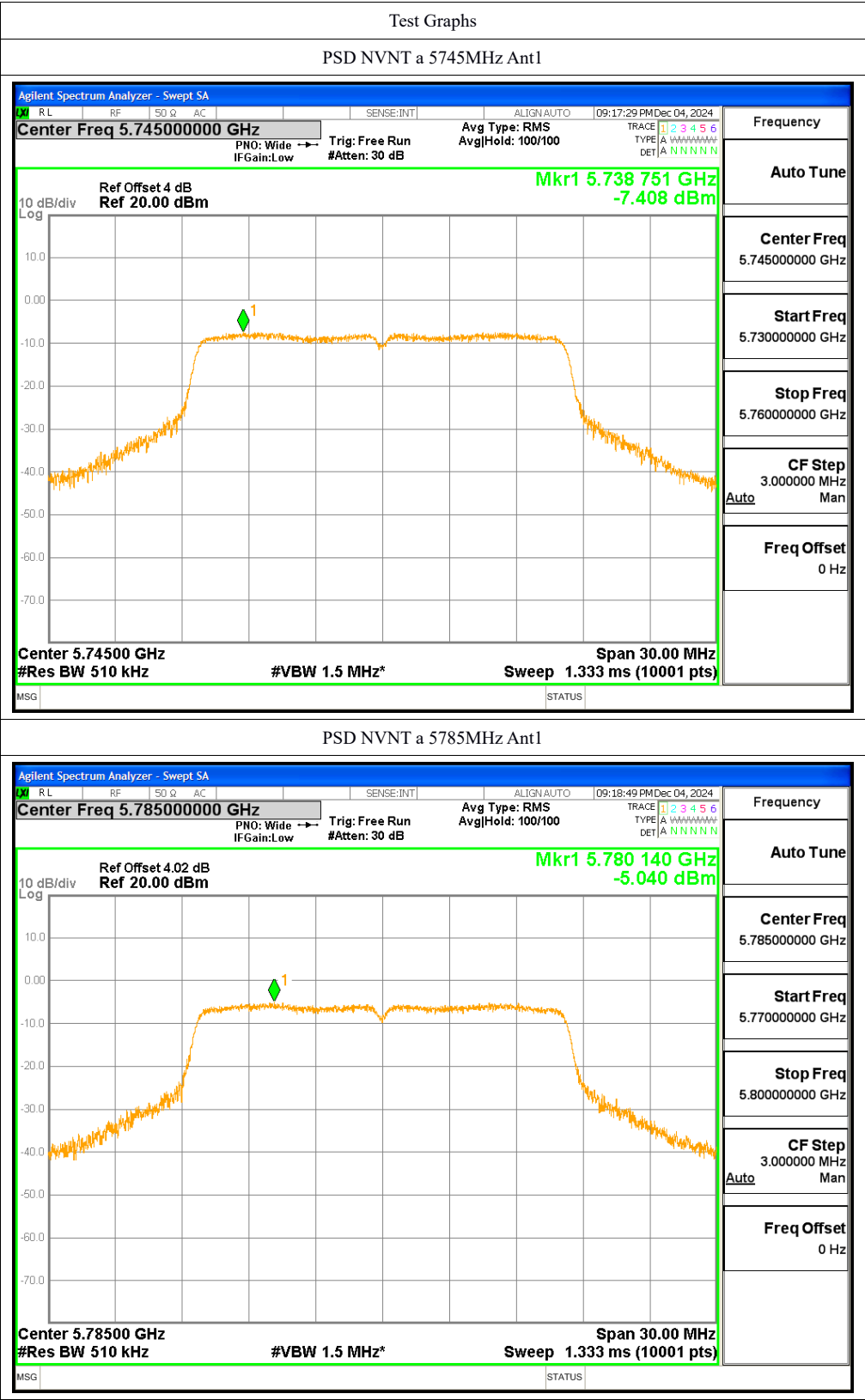
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Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	Ant1	-7.41	0.16	-7.25	30	Pass
		5785		-5.04	0.23	-4.81	30	Pass
		5825		-7.1	0.2	-6.9	30	Pass
	n20	5745		-5.51	0.31	-5.2	30	Pass
		5785		-5.19	0.39	-4.8	30	Pass
		5825		-5.1	0.29	-4.81	30	Pass
	n40	5755		-9.11	0.64	-8.47	30	Pass
		5795		-8.86	0.23	-8.63	30	Pass
	ac20	5745		-5.28	0.37	-4.91	30	Pass
		5785		-5.36	0.35	-5.01	30	Pass
		5825		-5.4	0.27	-5.13	30	Pass
	ac40	5755		-9.25	0.46	-8.79	30	Pass
		5795		-9.04	0.69	-8.35	30	Pass
	ax20	5745		-5.74	0.36	-5.38	30	Pass
		5785		-5.23	0.12	-5.11	30	Pass
		5825		-5.15	0.3	-4.85	30	Pass
	ax40	5755		-9.25	0.7	-8.55	30	Pass
		5795		-8.95	0.61	-8.34	30	Pass

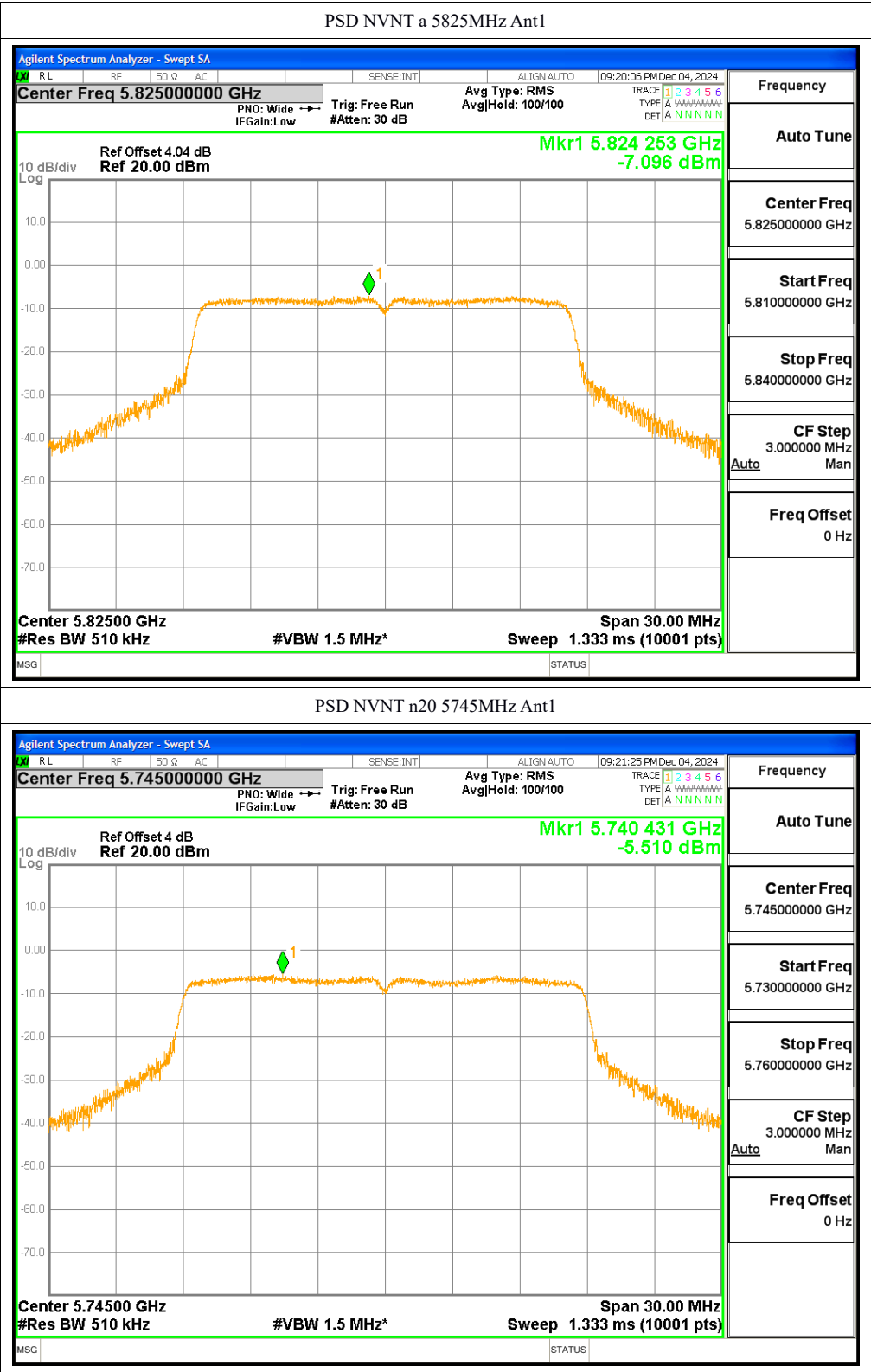
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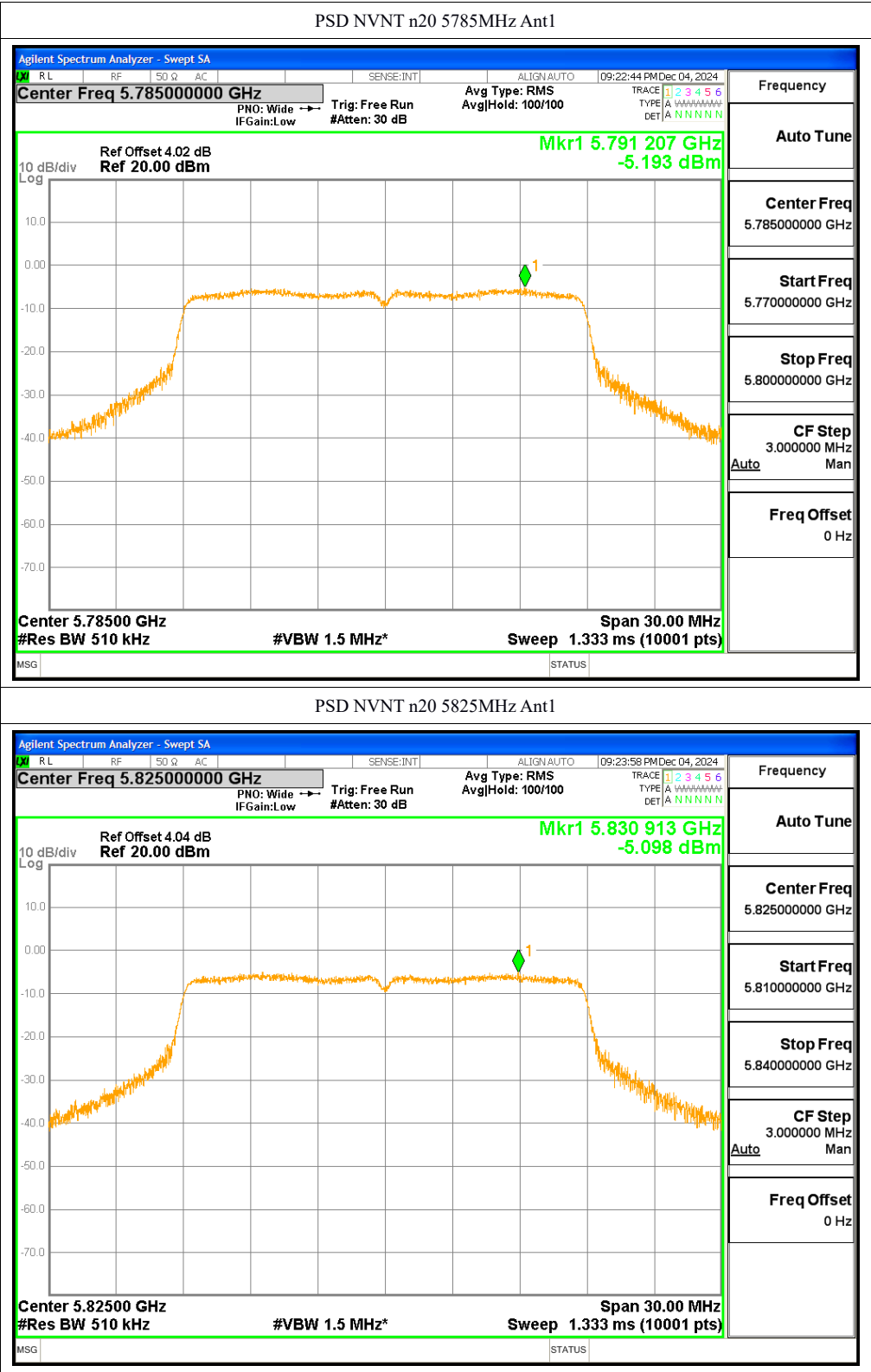
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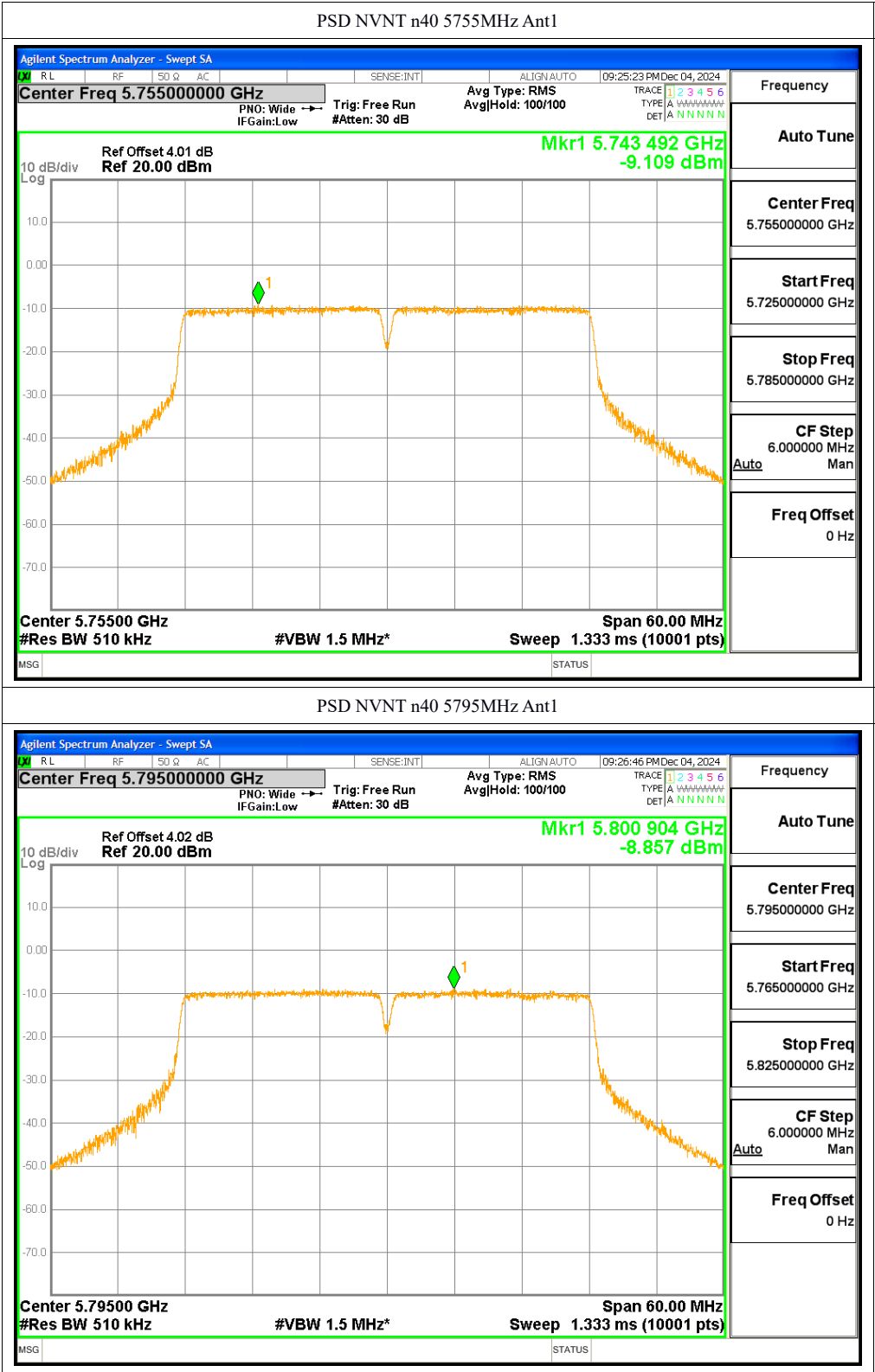
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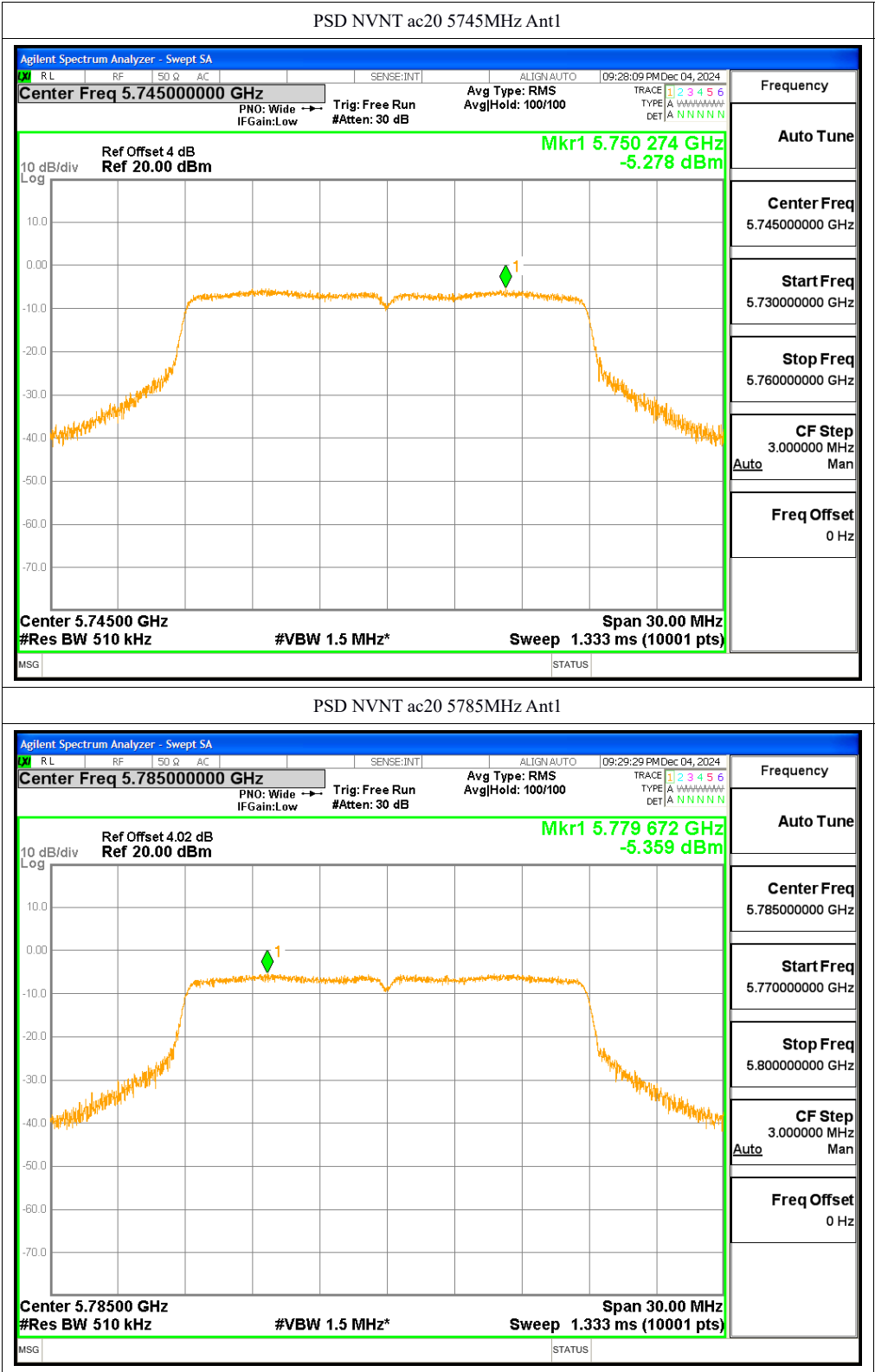
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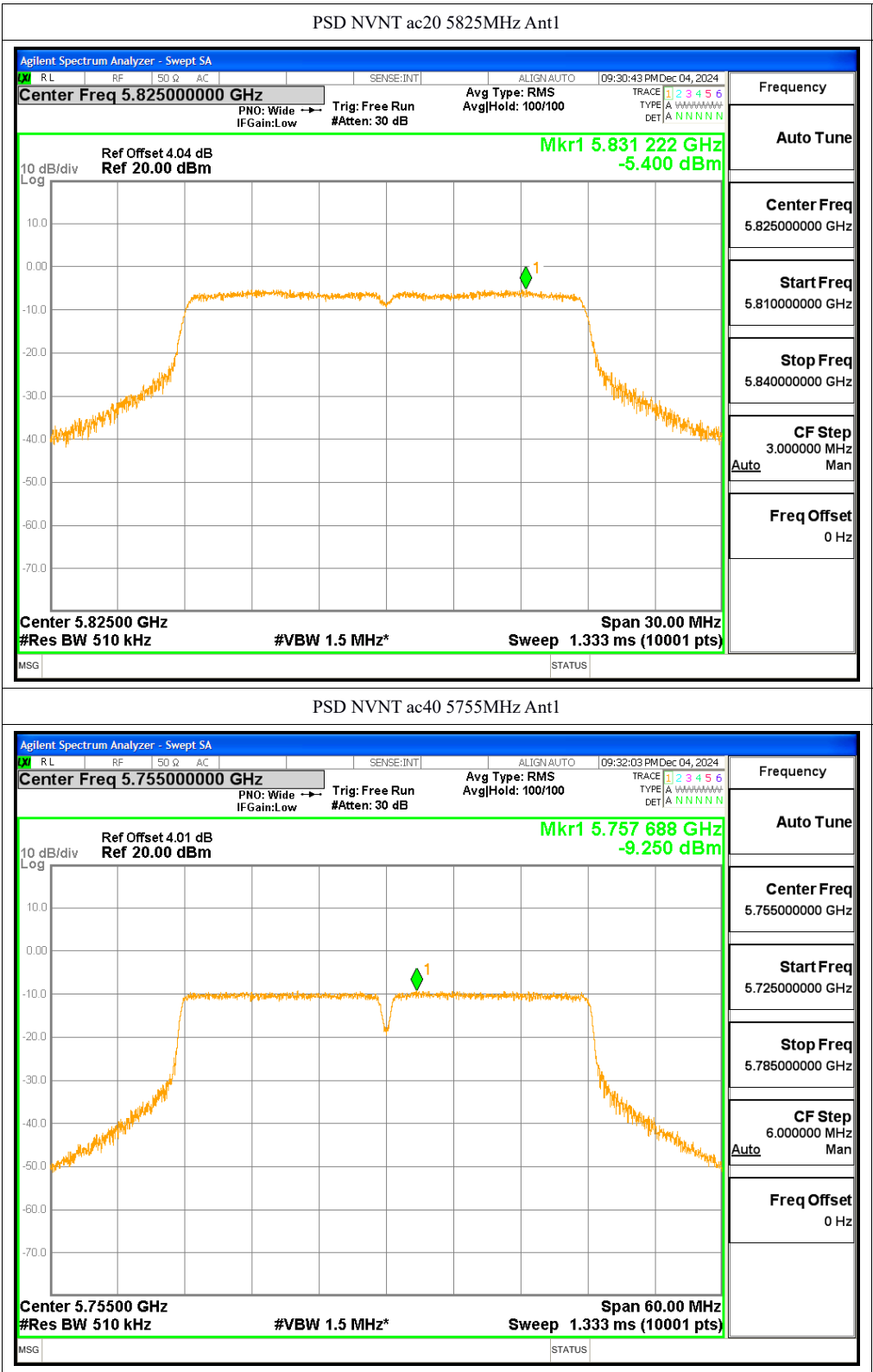
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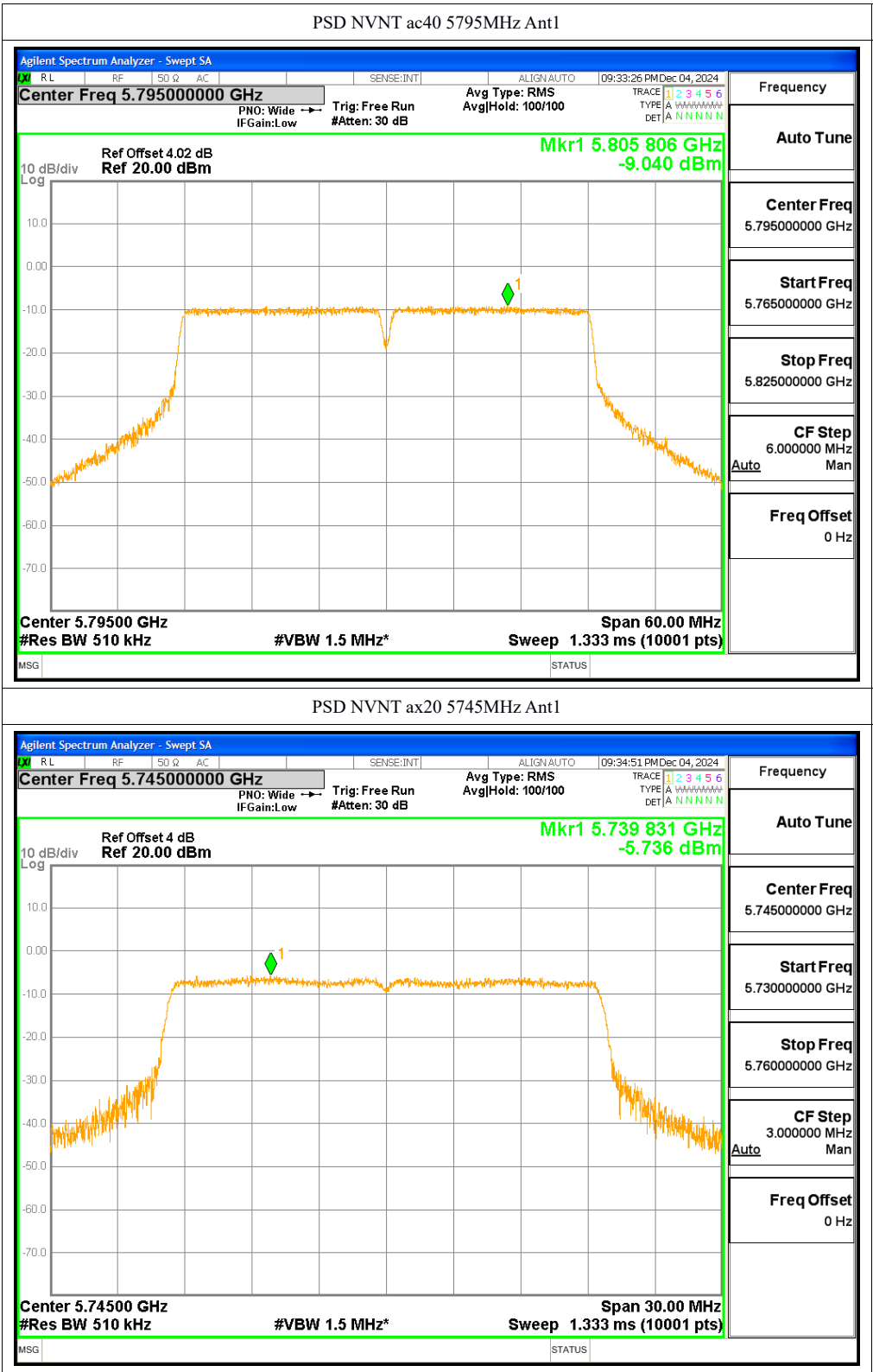
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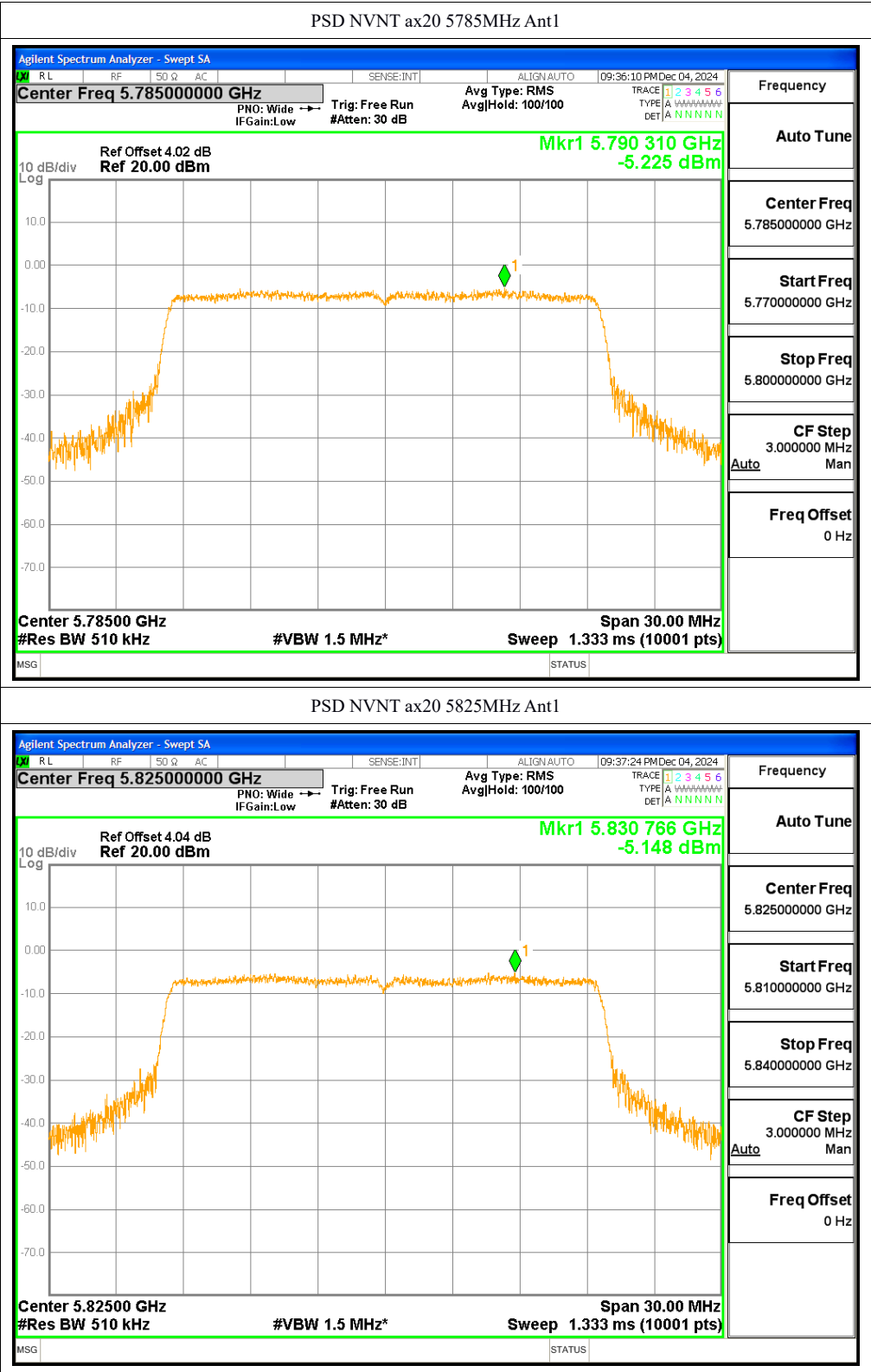
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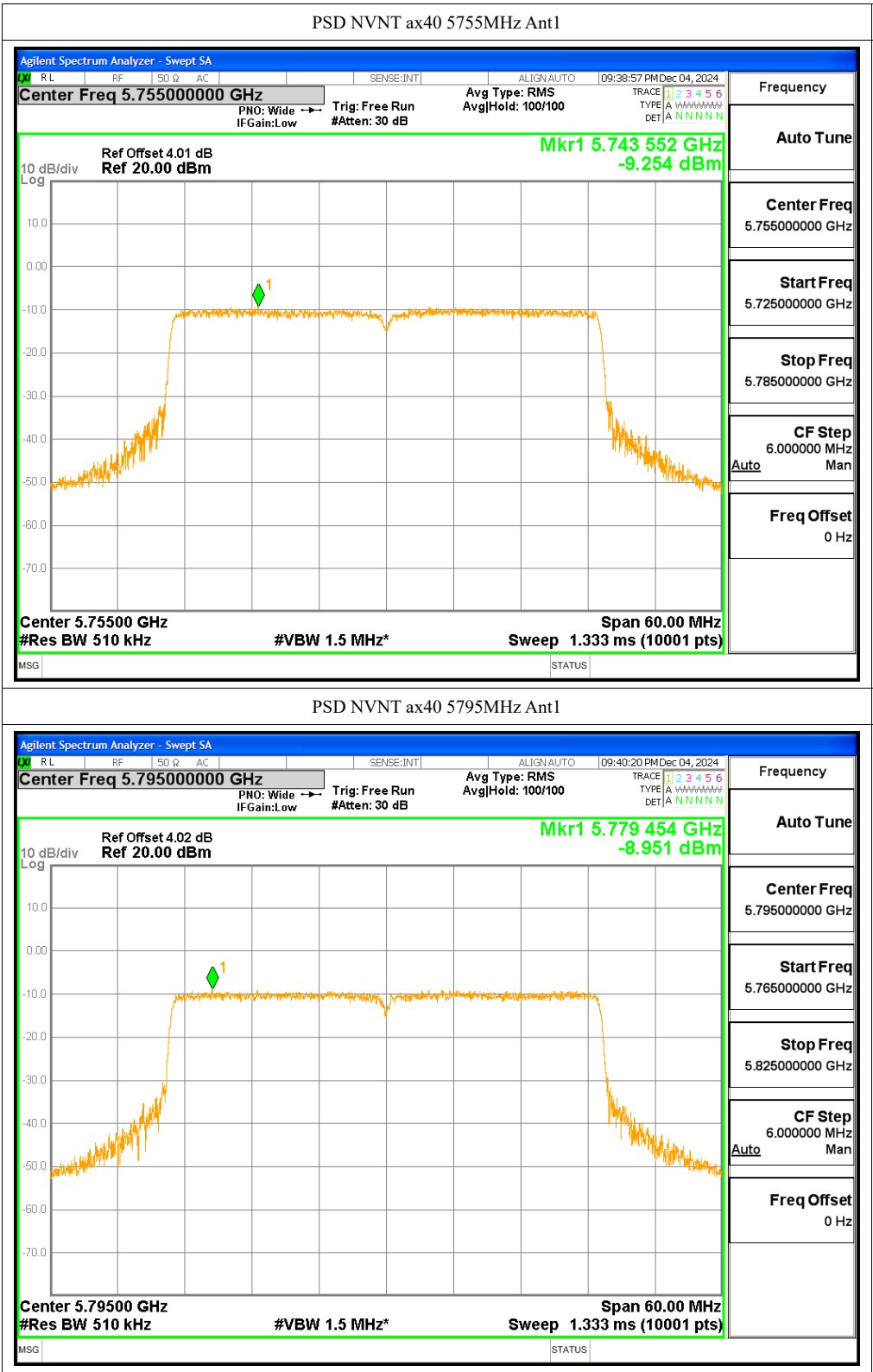
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10.0 Frequency Stability

10.1 Limits of Frequency Stability Measurement

The frequency tolerance of the carrier signal shall be maintained within $\pm 0.02\%$ of the operating frequency over a temperature variation of -30 degrees to 50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees

10.2 Test Procedure

1. The EUT was placed inside the environmental test chamber and powered by nominal DC voltage.
2. Turn the EUT on and couple its output to a spectrum analyzer.
3. Turn the EUT off and set the chamber to the highest temperature specified.
4. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT on and measure the operating frequency after 2, 5, and 10 minutes.
5. Repeat step 2 and 3 with the temperature chamber set to the lowest temperature.
6. The test chamber was allowed to stabilize at $+20$ degree C for a minimum of 30 minutes. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency record.

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10.3 Test Result

Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	a	5180	Ant1	5179.96	-40000	-7.72	25	Pass
		5200		5199.96	-40000	-7.69	25	Pass
		5240		5239.96	-40000	-7.63	25	Pass
	n20	5180		5179.96	-40000	-7.72	25	Pass
		5200		5199.98	-20000	-3.85	25	Pass
		5240		5239.96	-40000	-7.63	25	Pass
	n40	5190		5189.96	-40000	-7.71	25	Pass
		5230		5229.96	-40000	-7.65	25	Pass
	ac20	5180		5179.96	-40000	-7.72	25	Pass
		5200		5199.94	-60000	-11.54	25	Pass
		5240		5239.96	-40000	-7.63	25	Pass
	ac40	5190		5189.96	-40000	-7.71	25	Pass
		5230		5229.96	-40000	-7.65	25	Pass
	ax20	5180		5179.96	-40000	-7.72	25	Pass
		5200		5199.96	-40000	-7.69	25	Pass
		5240		5239.96	-40000	-7.63	25	Pass
	ax40	5190		5189.96	-40000	-7.71	25	Pass
		5230		5229.96	-40000	-7.65	25	Pass

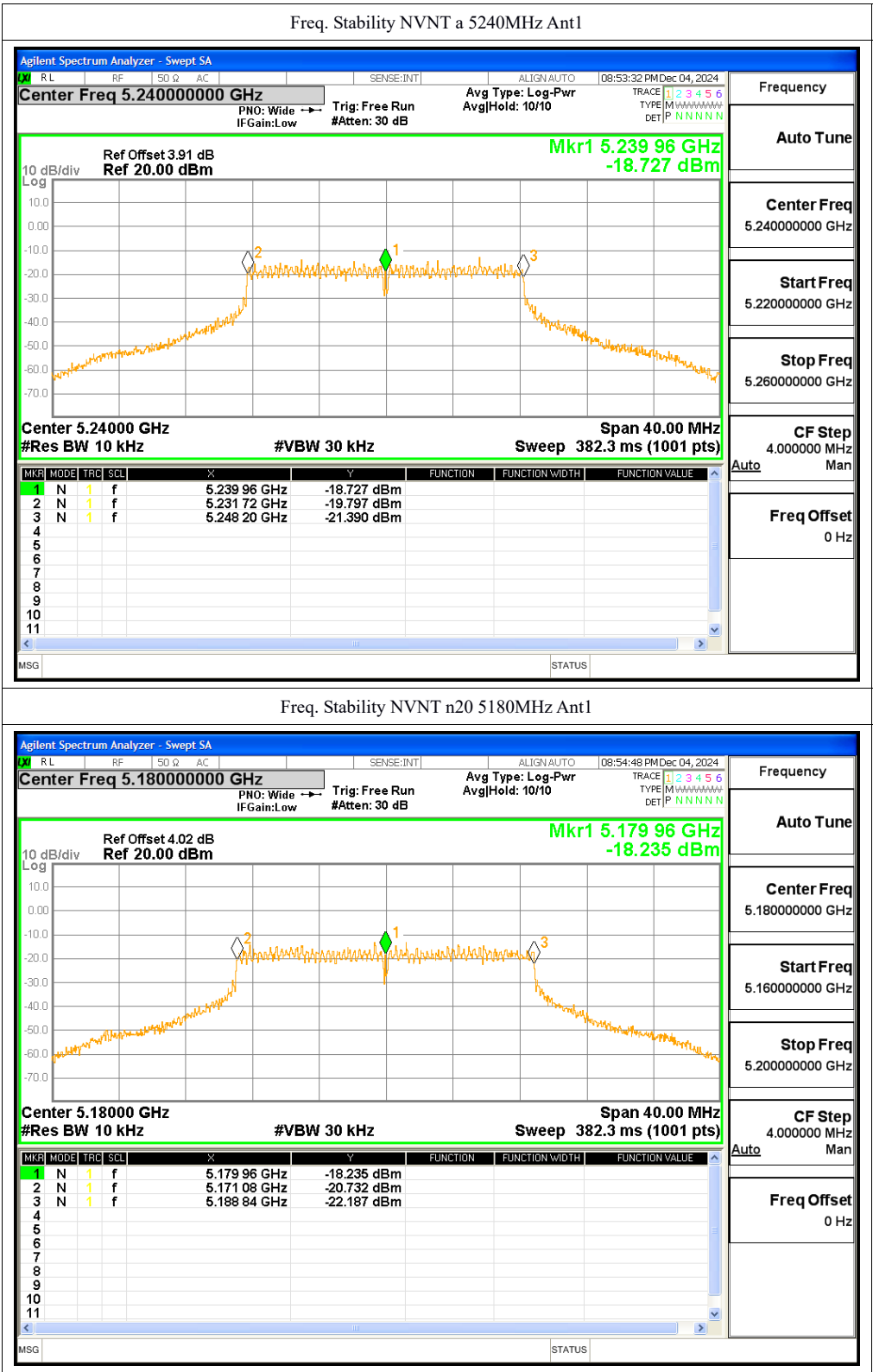
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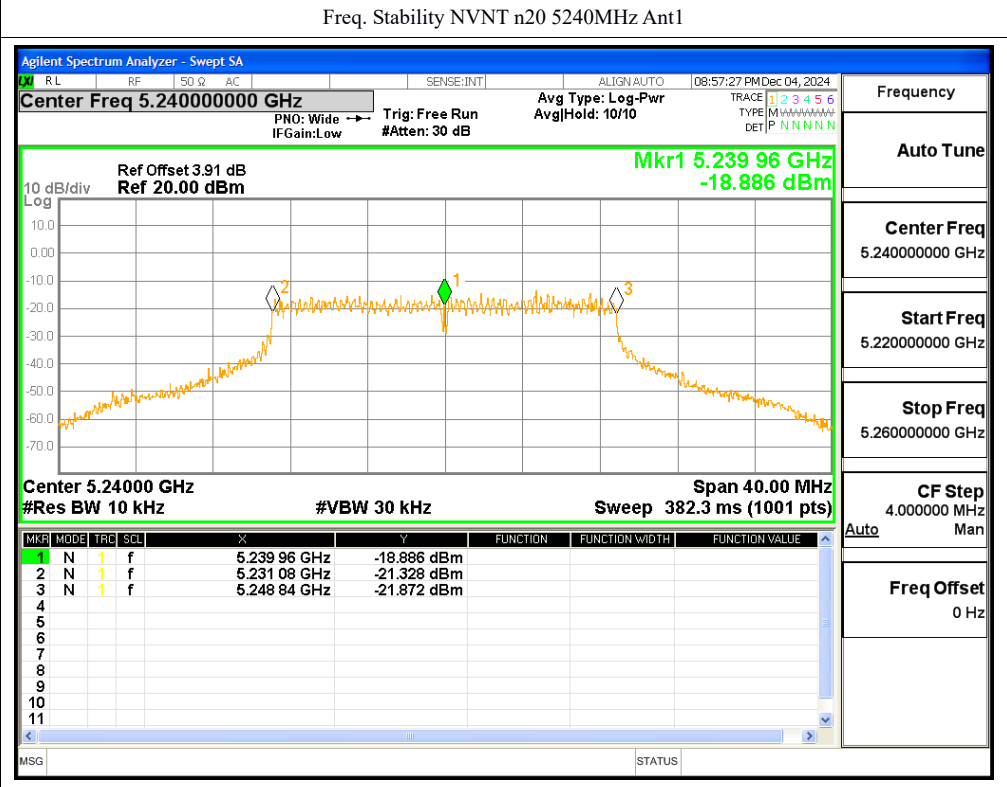
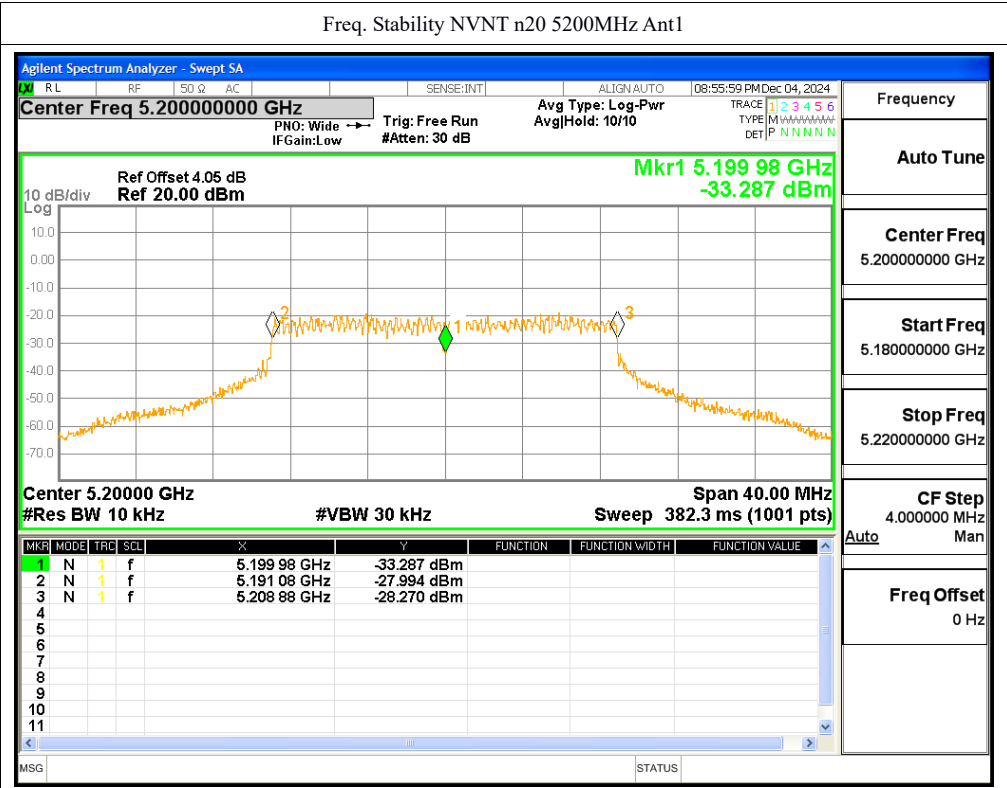
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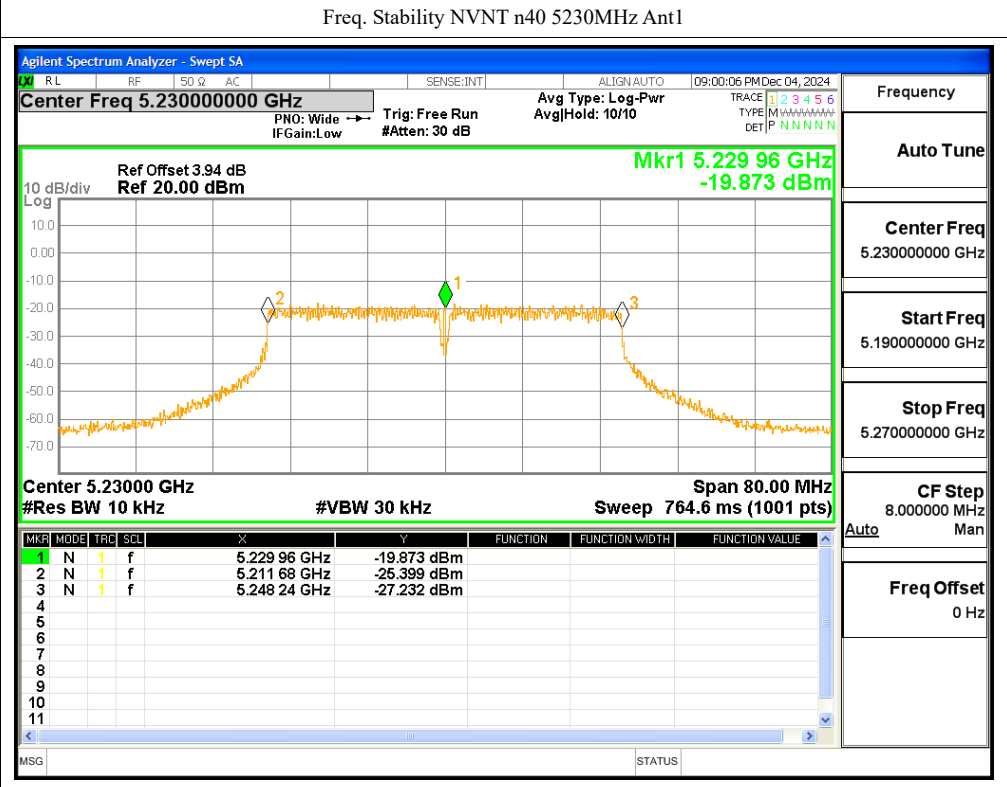
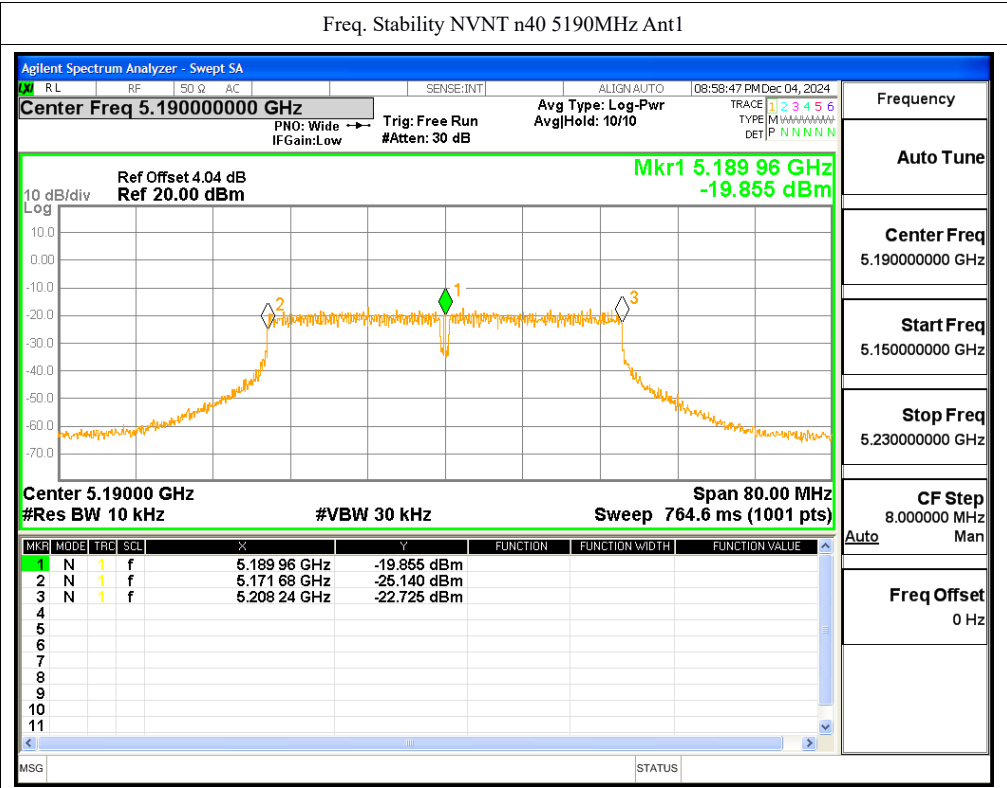
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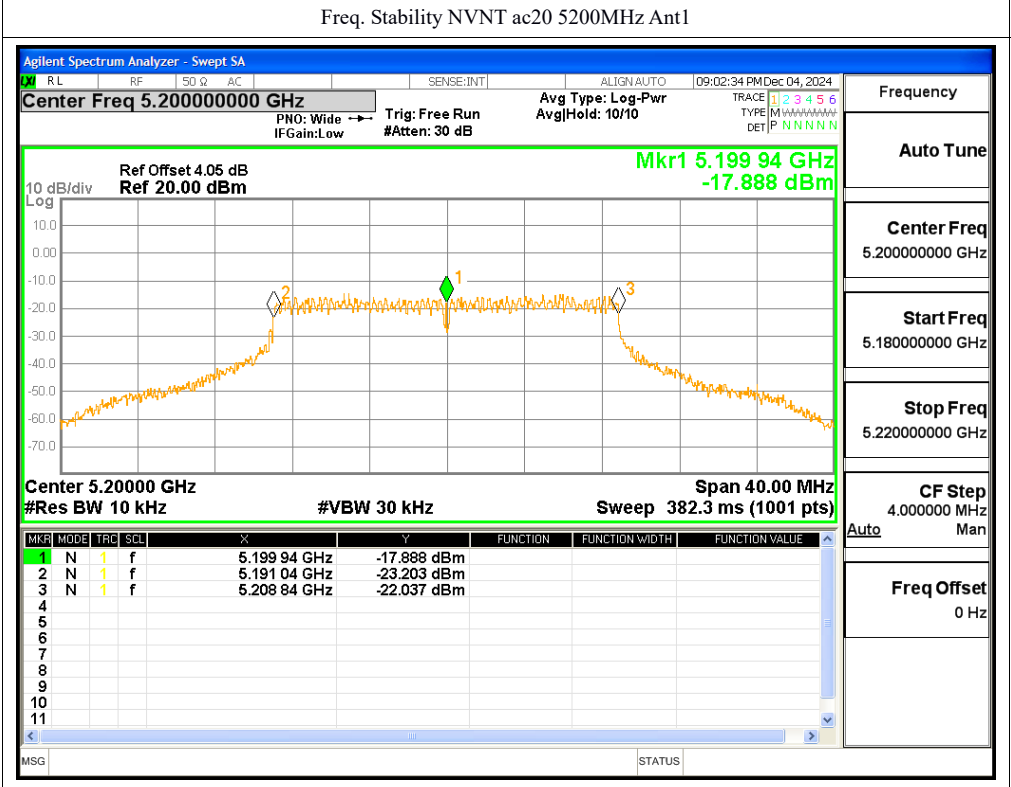
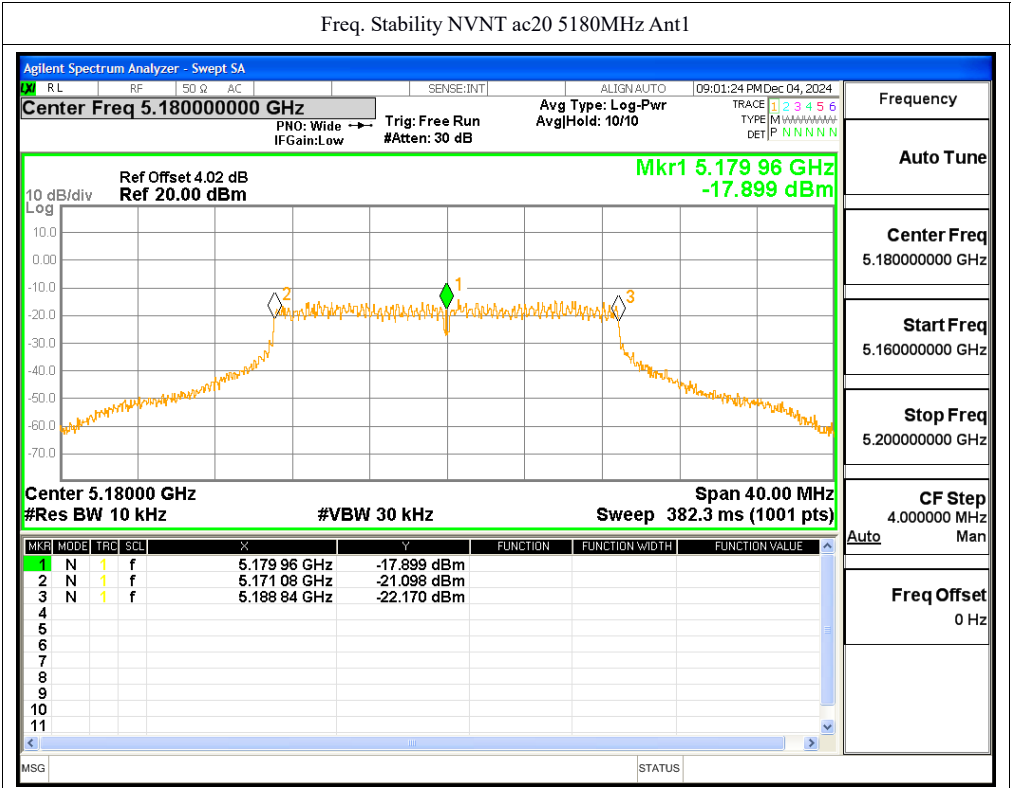
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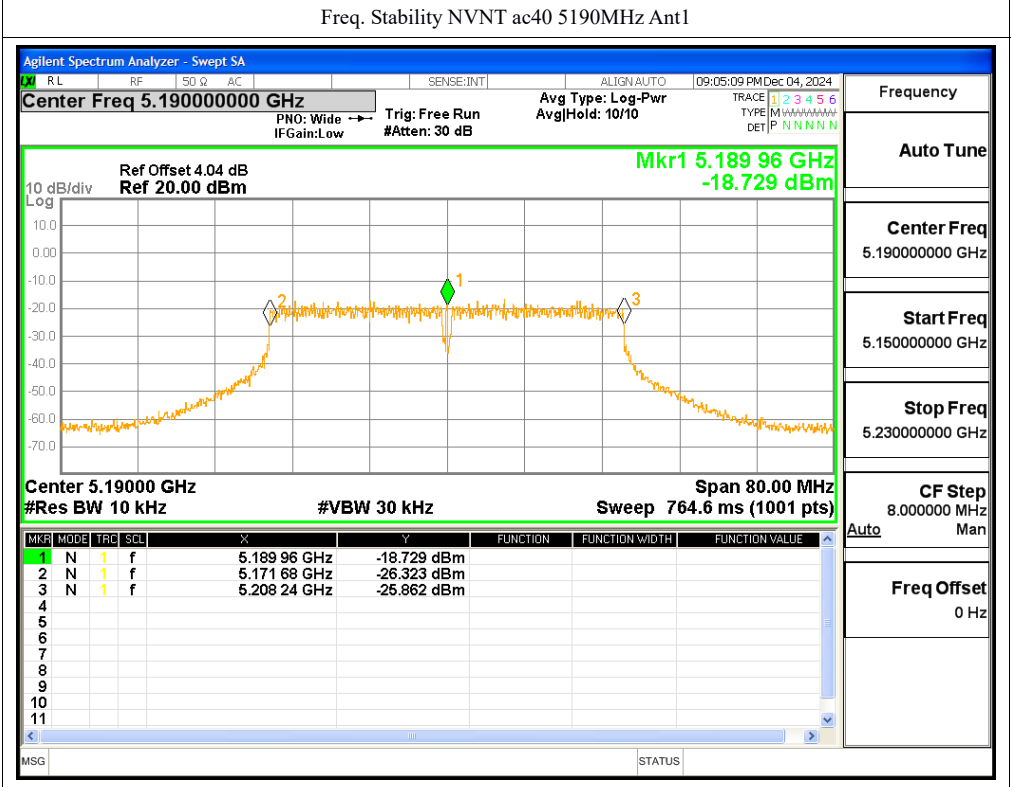
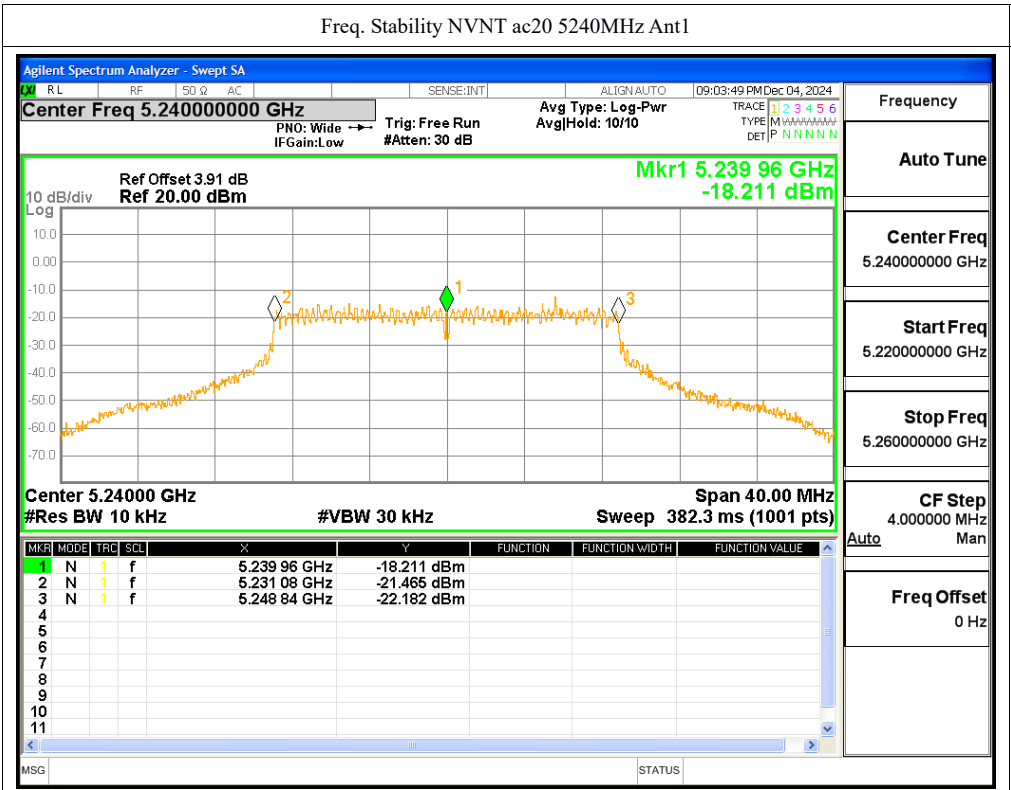
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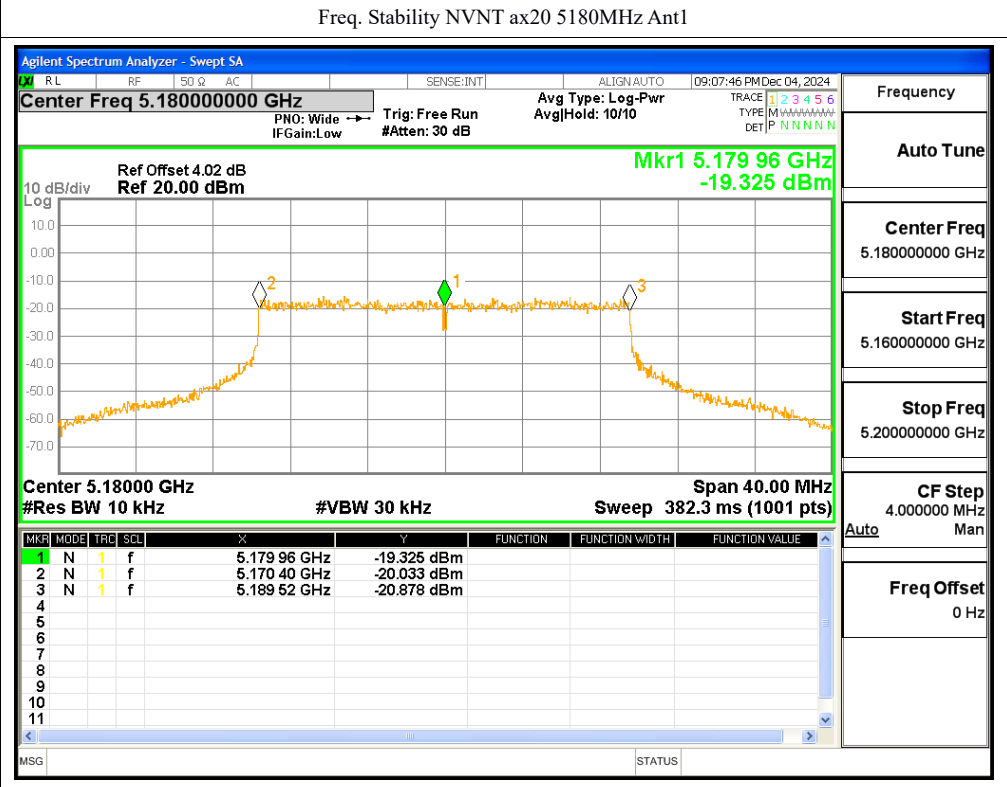
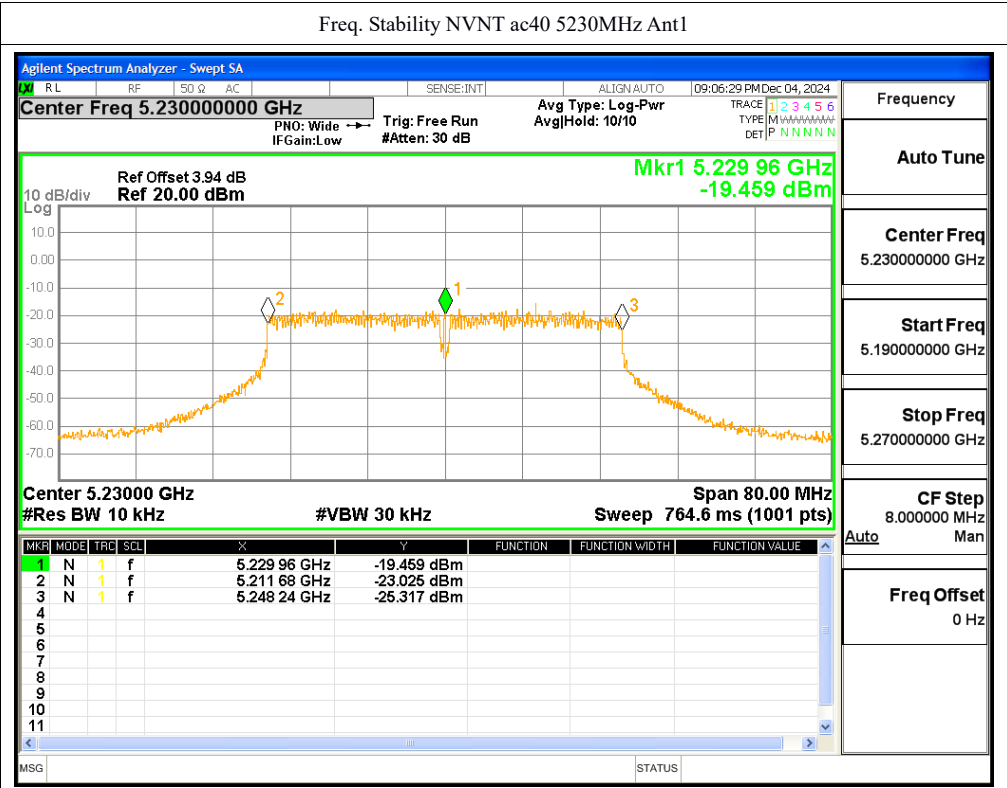
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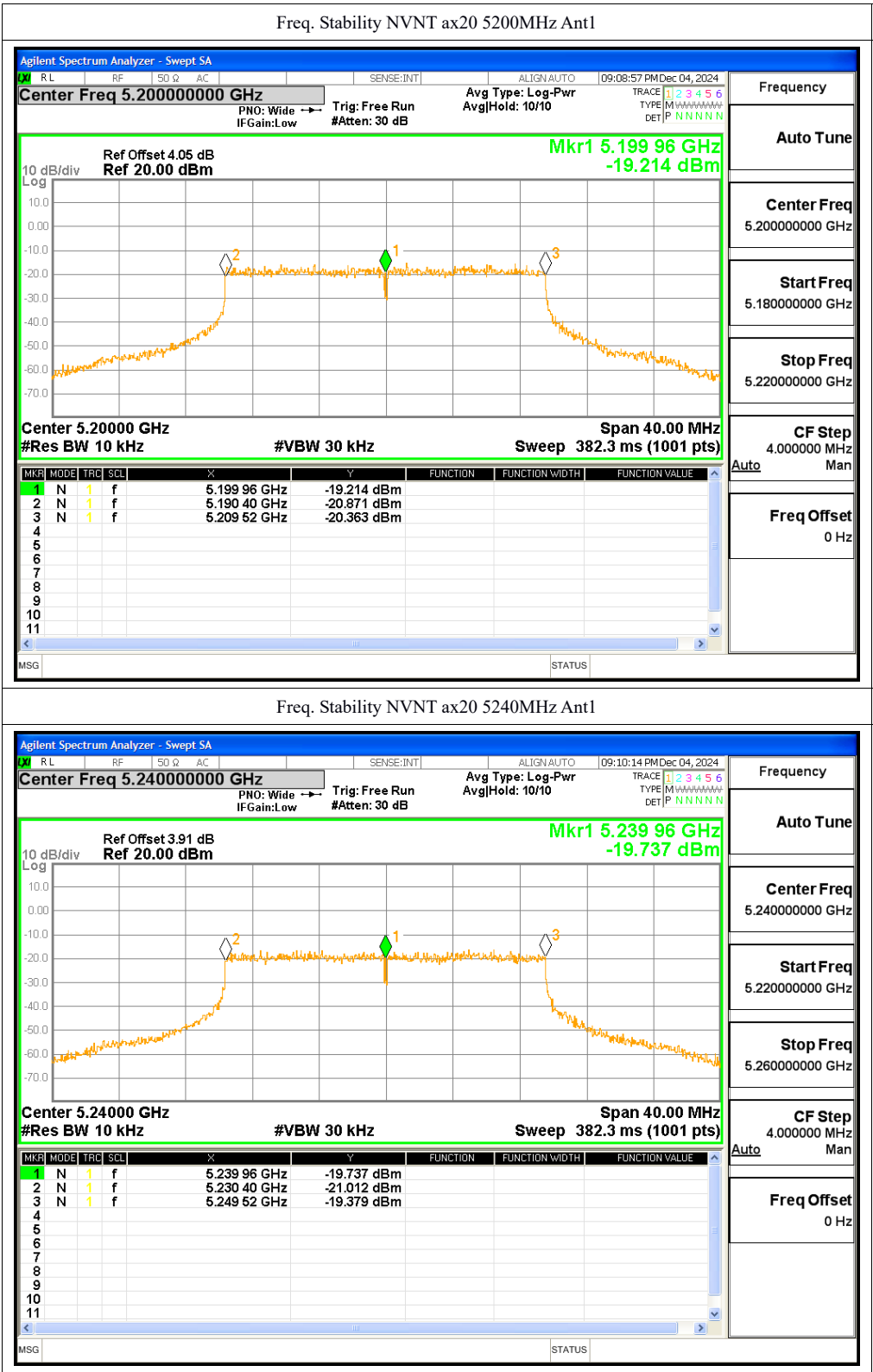
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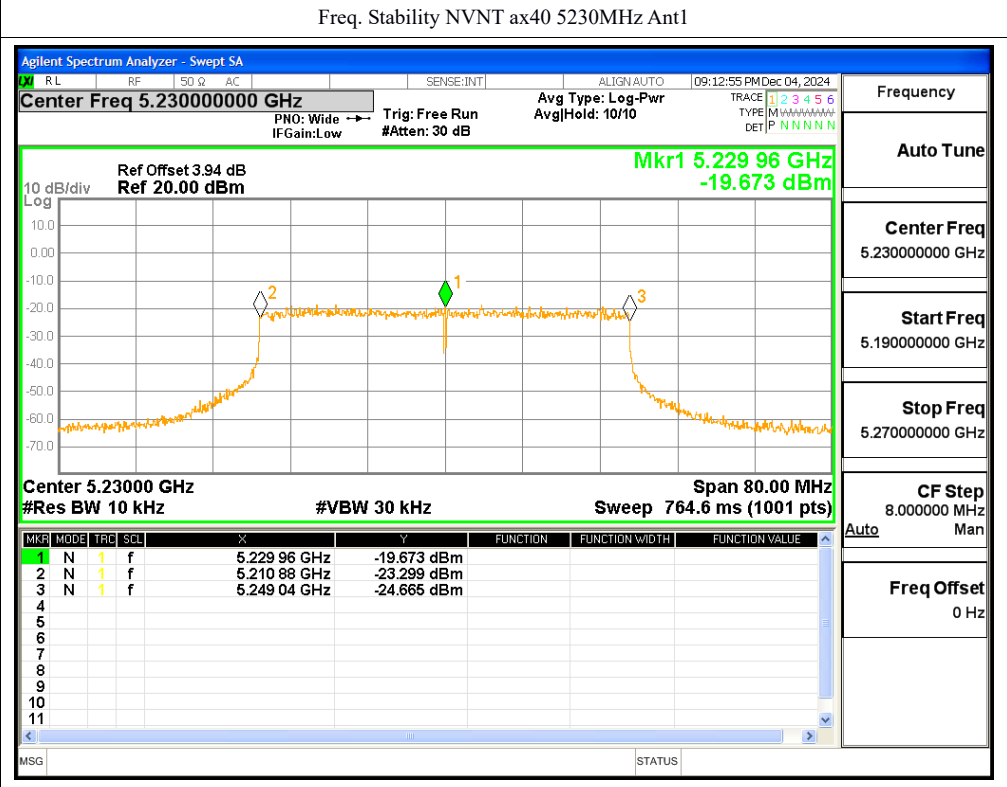
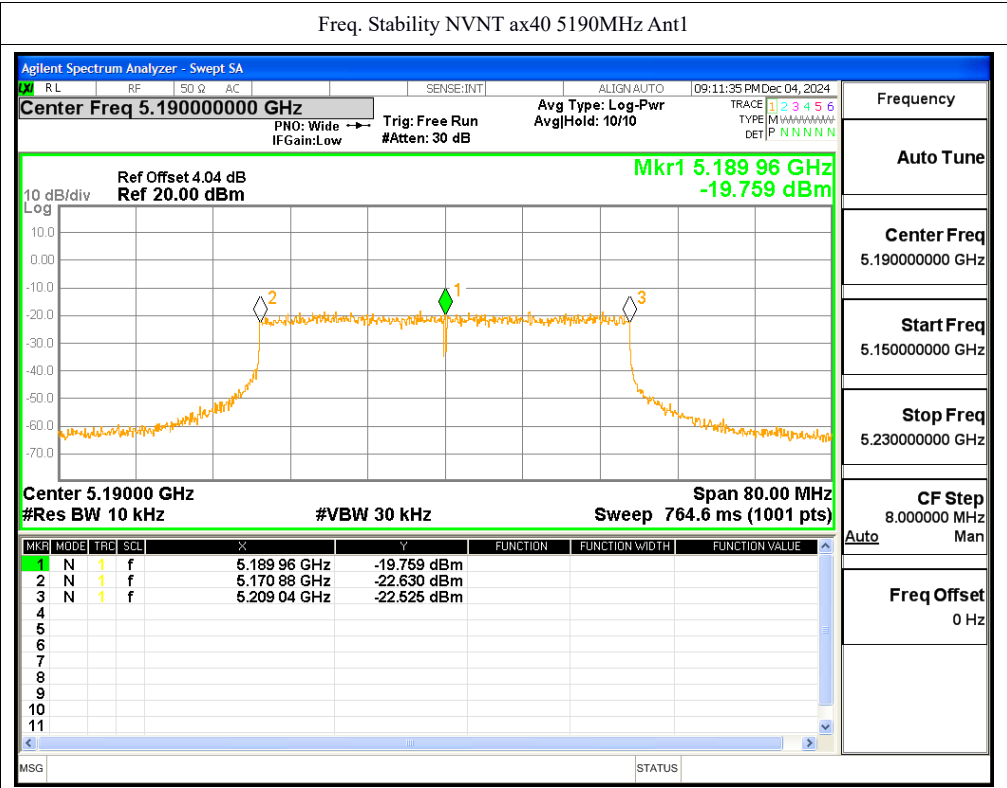
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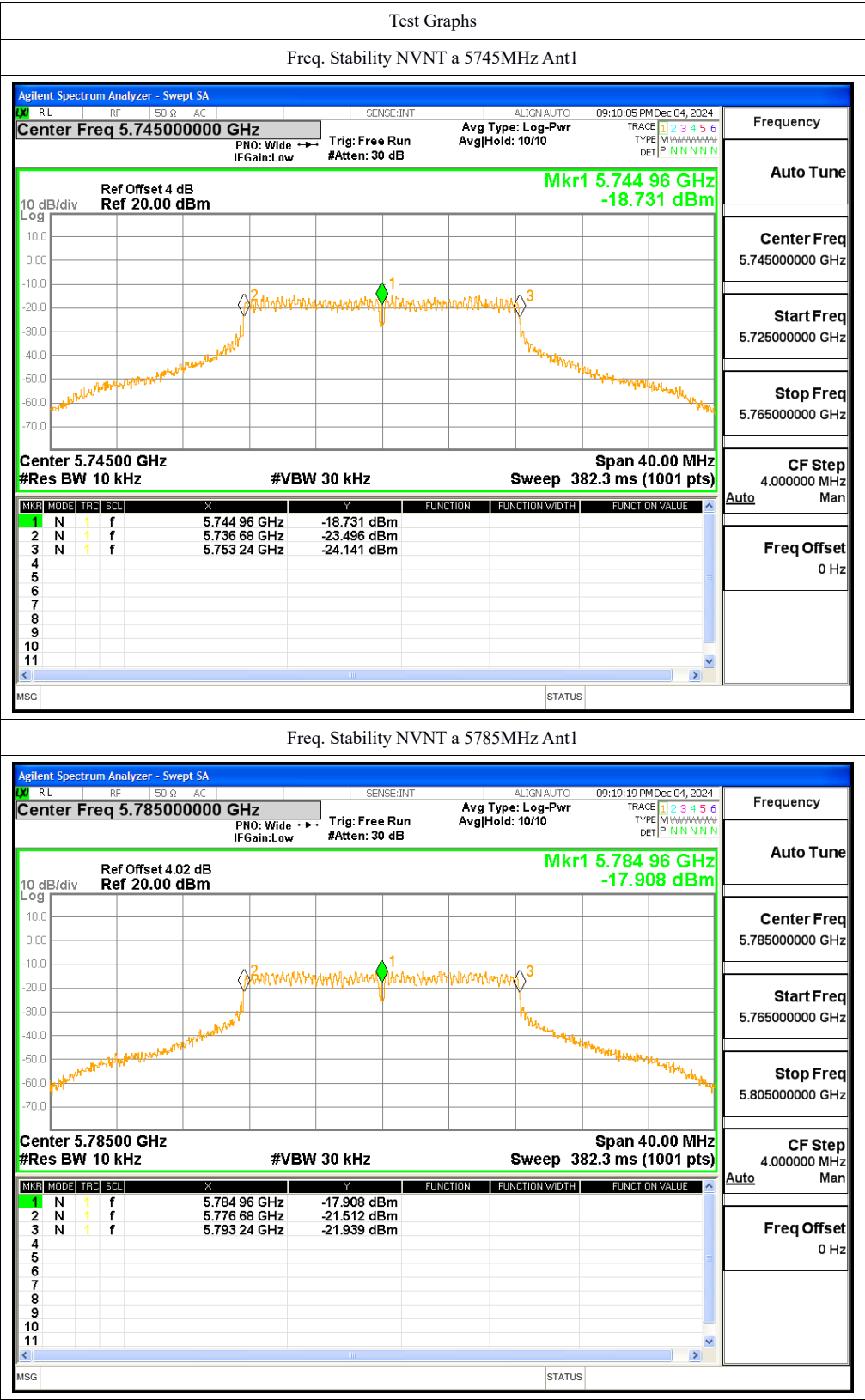
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Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	a	5745	Ant1	5744.96	-40000	-6.96	25	Pass
		5785		5784.96	-40000	-6.91	25	Pass
		5825		5824.98	-20000	-3.43	25	Pass
	n20	5745		5744.98	-20000	-3.48	25	Pass
		5785		5784.94	-60000	-10.37	25	Pass
		5825		5824.96	-40000	-6.87	25	Pass
	n40	5755		5754.96	-40000	-6.95	25	Pass
		5795		5794.96	-40000	-6.9	25	Pass
	ac20	5745		5744.94	-60000	-10.44	25	Pass
		5785		5784.94	-60000	-10.37	25	Pass
		5825		5824.96	-40000	-6.87	25	Pass
	ac40	5755		5754.96	-40000	-6.95	25	Pass
		5795		5794.96	-40000	-6.9	25	Pass
	ax20	5745		5744.96	-40000	-6.96	25	Pass
		5785		5784.96	-40000	-6.91	25	Pass
		5825		5824.96	-40000	-6.87	25	Pass
	ax40	5755		5754.96	-40000	-6.95	25	Pass
		5795		5794.96	-40000	-6.9	25	Pass

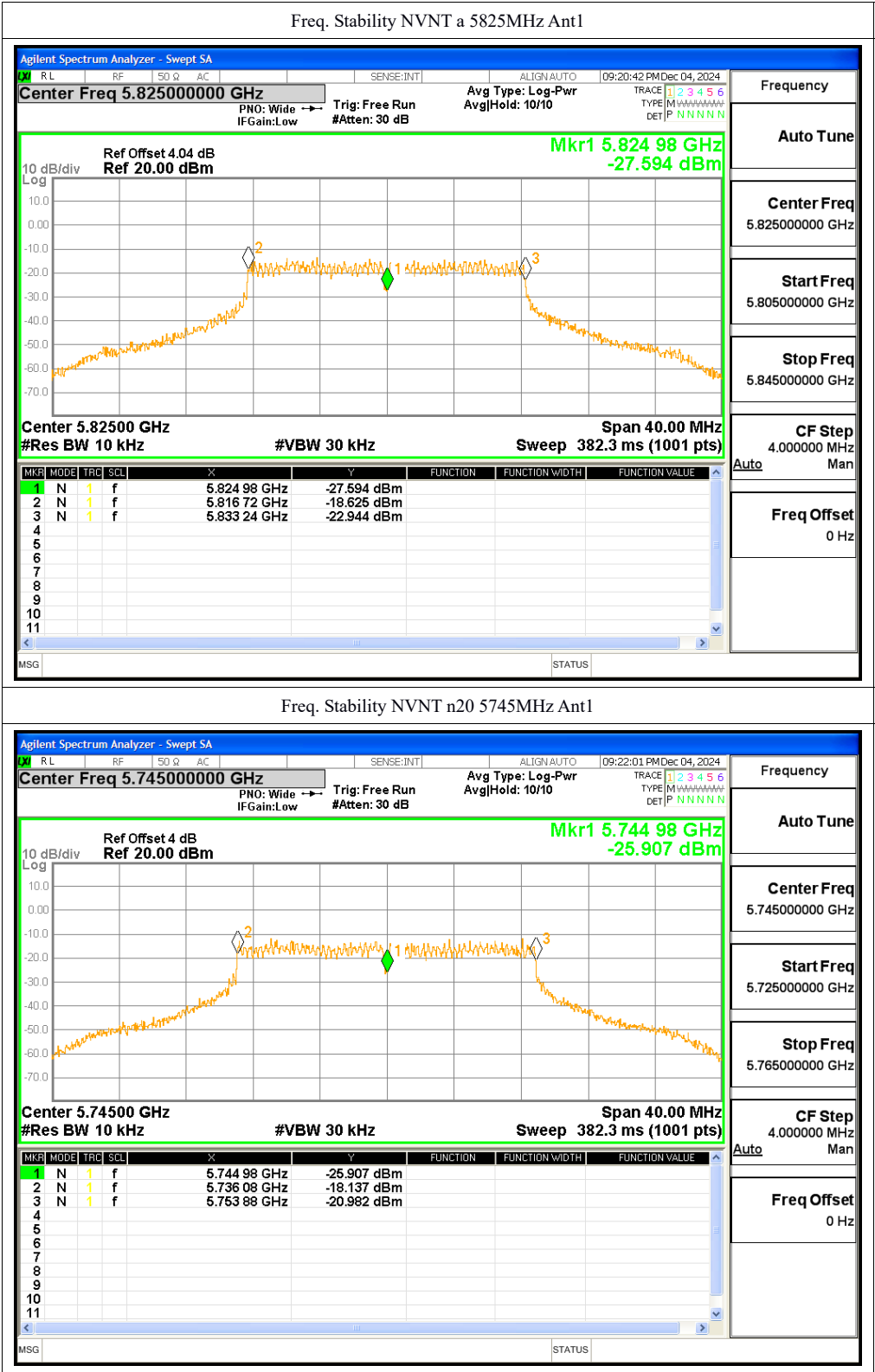
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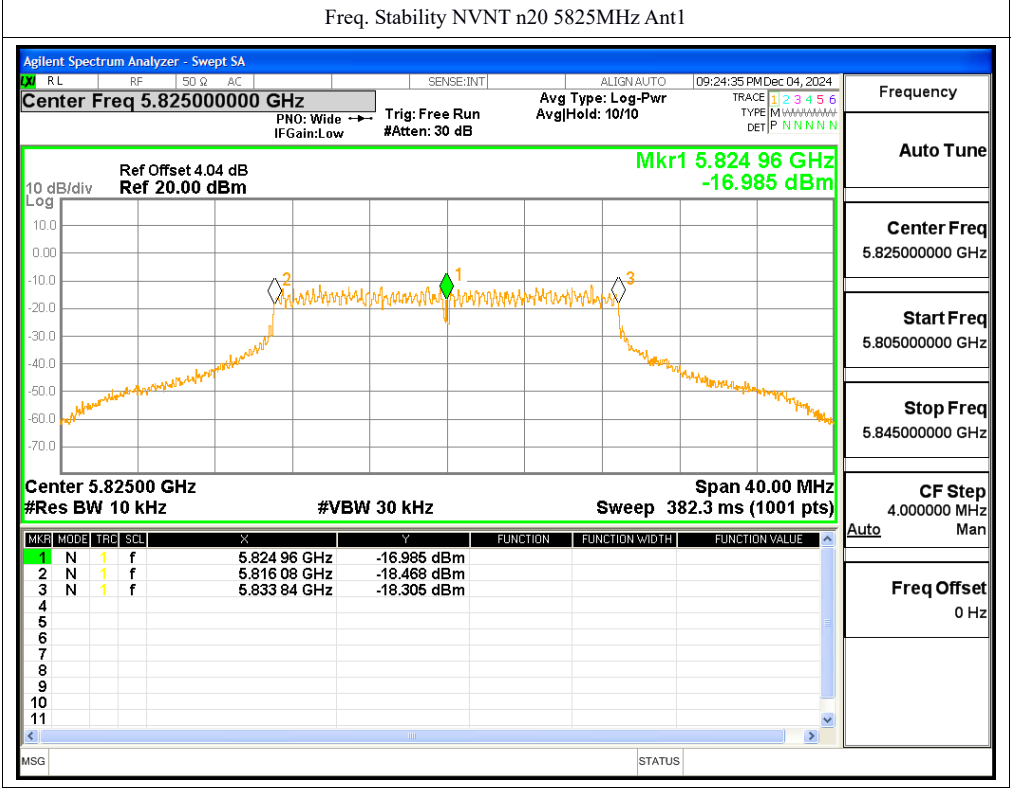
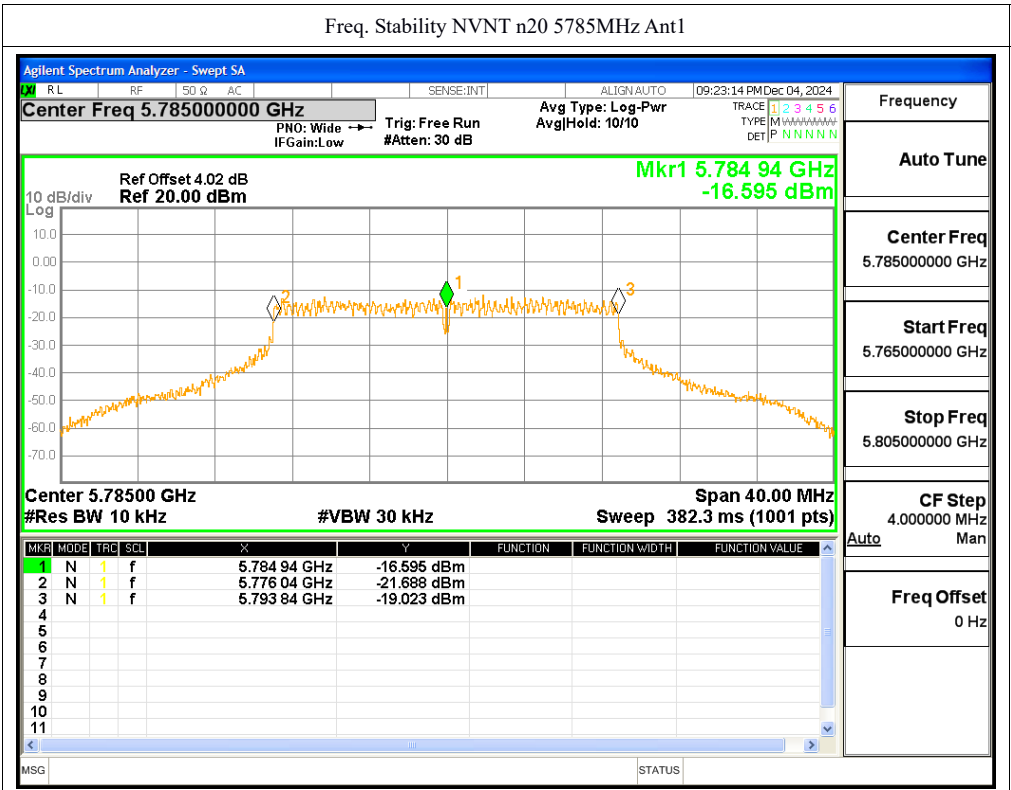
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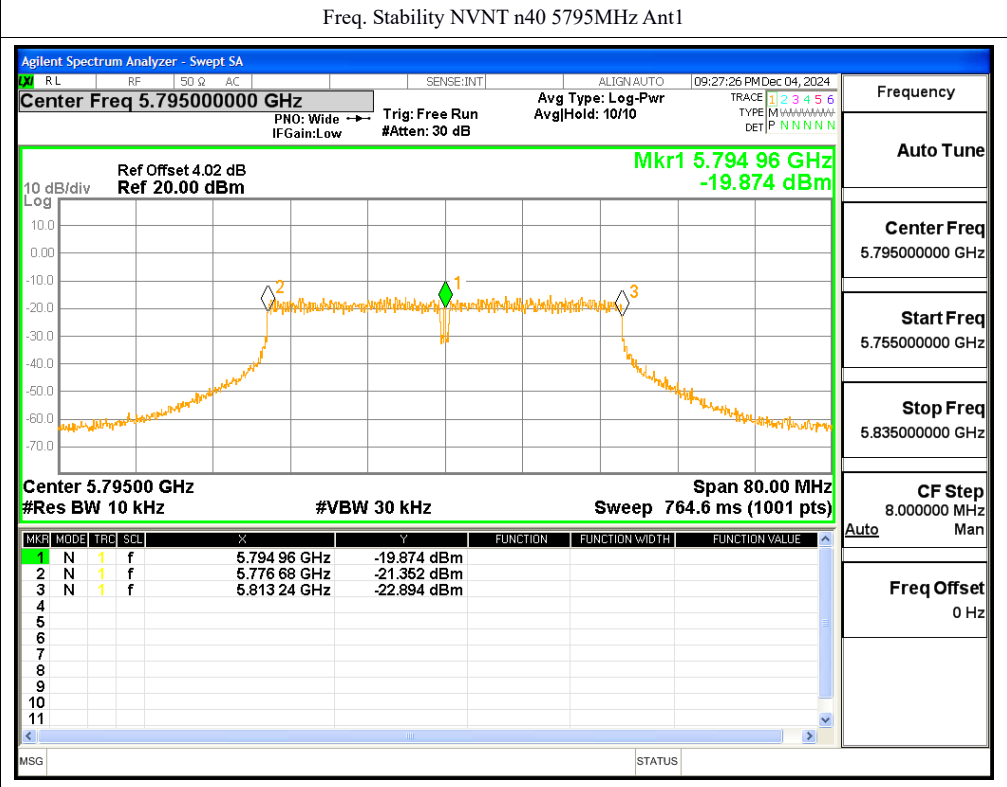
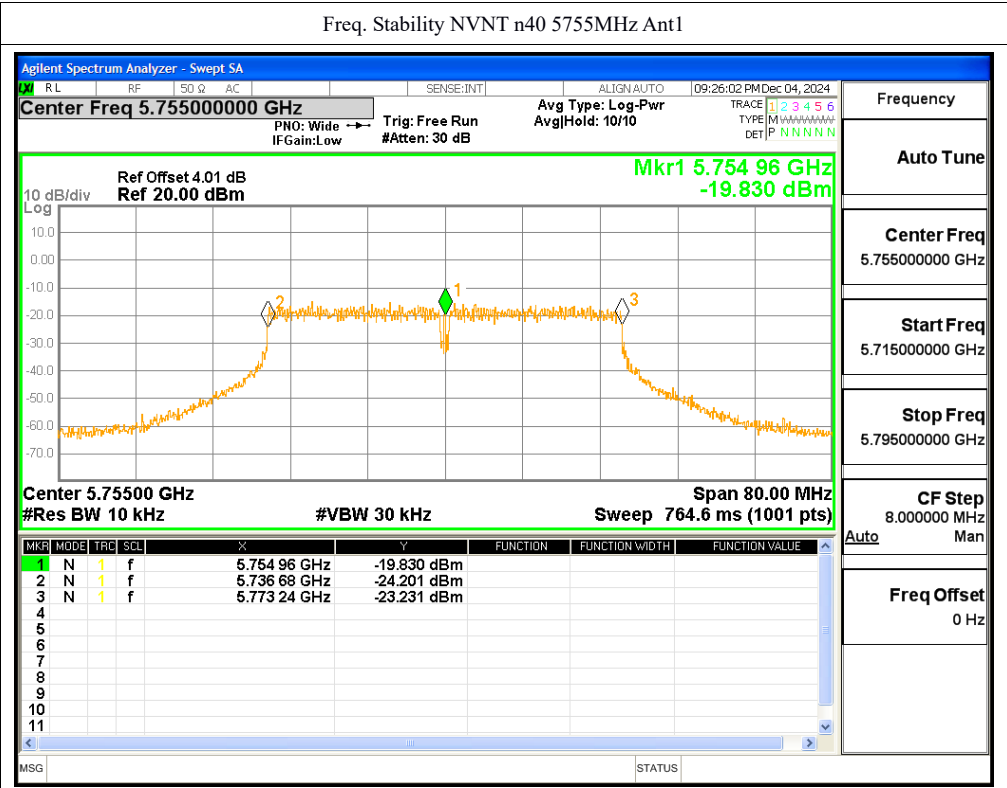
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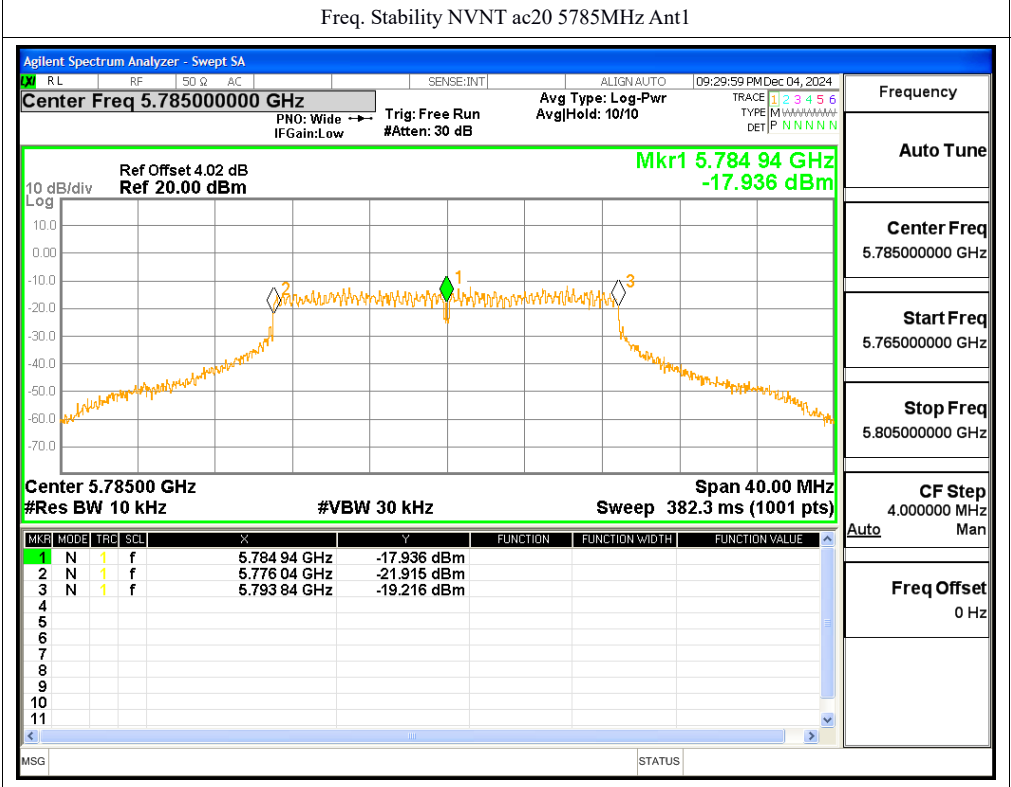
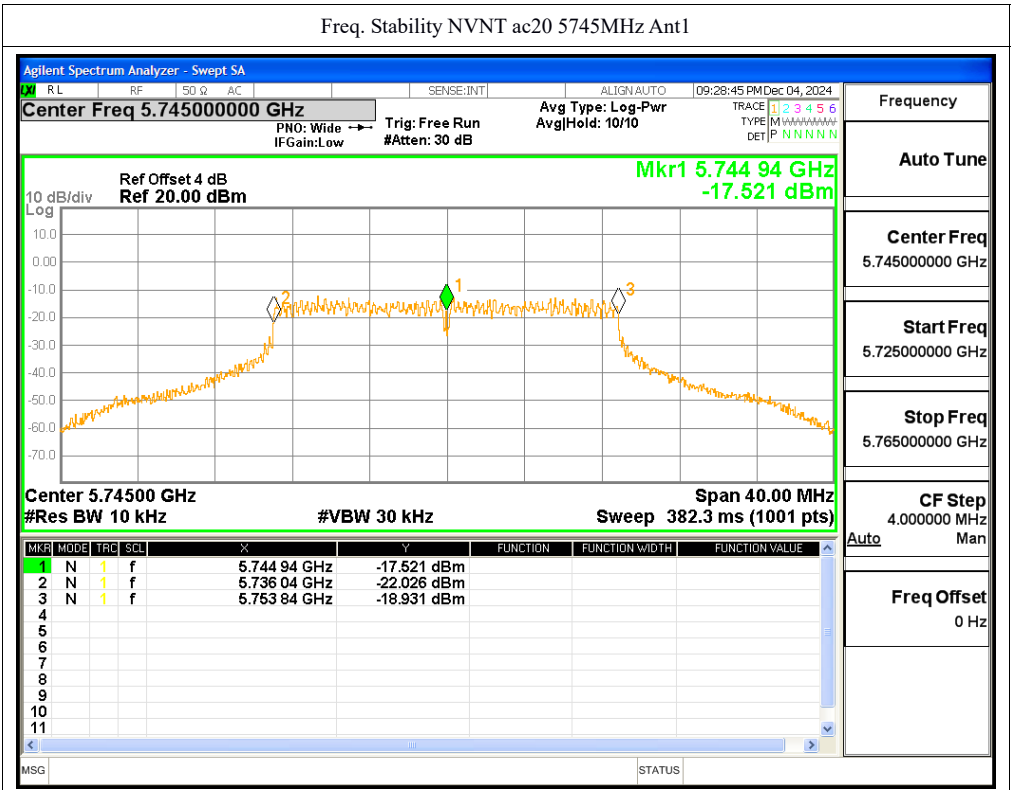
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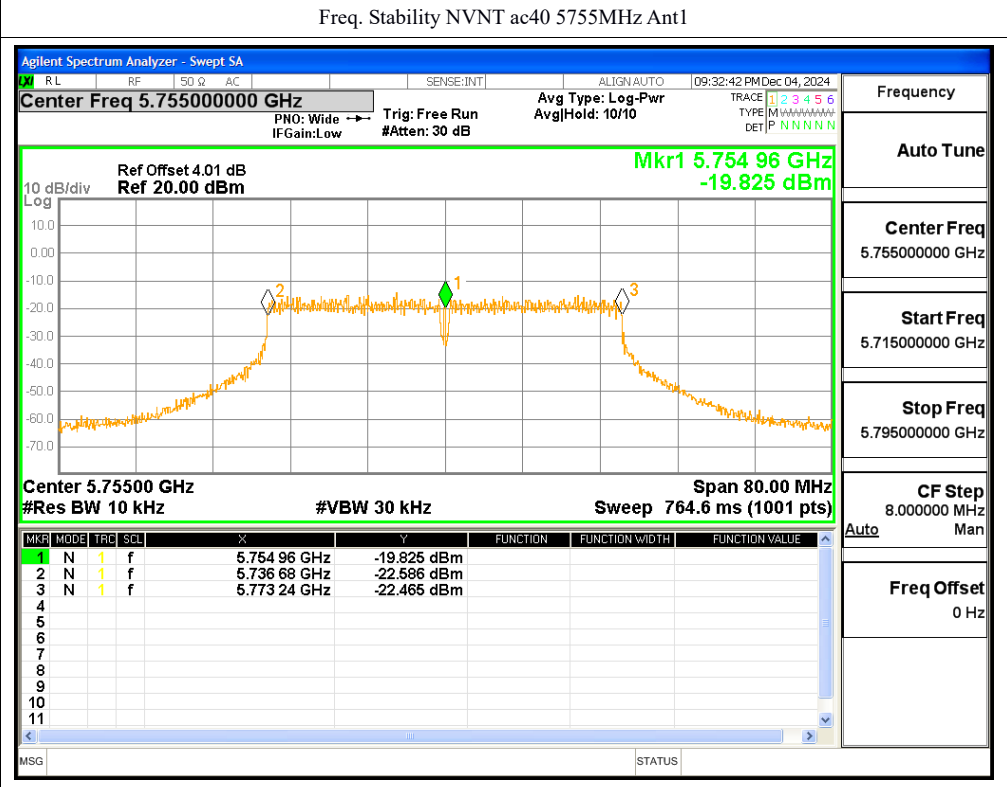
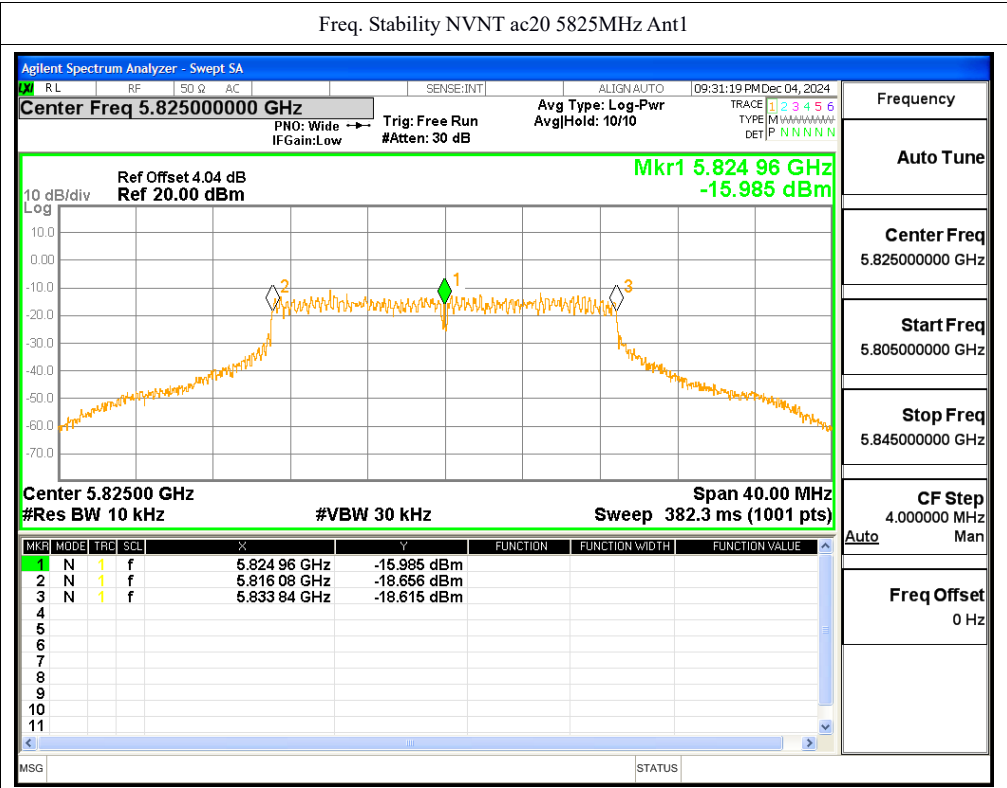
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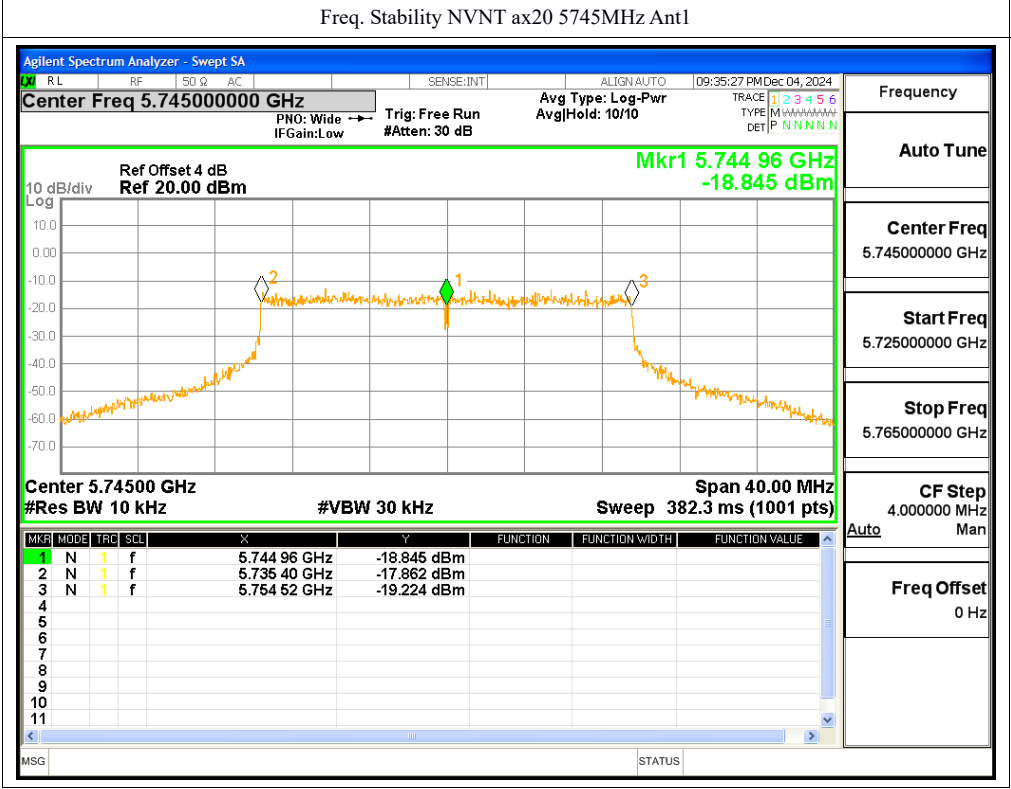
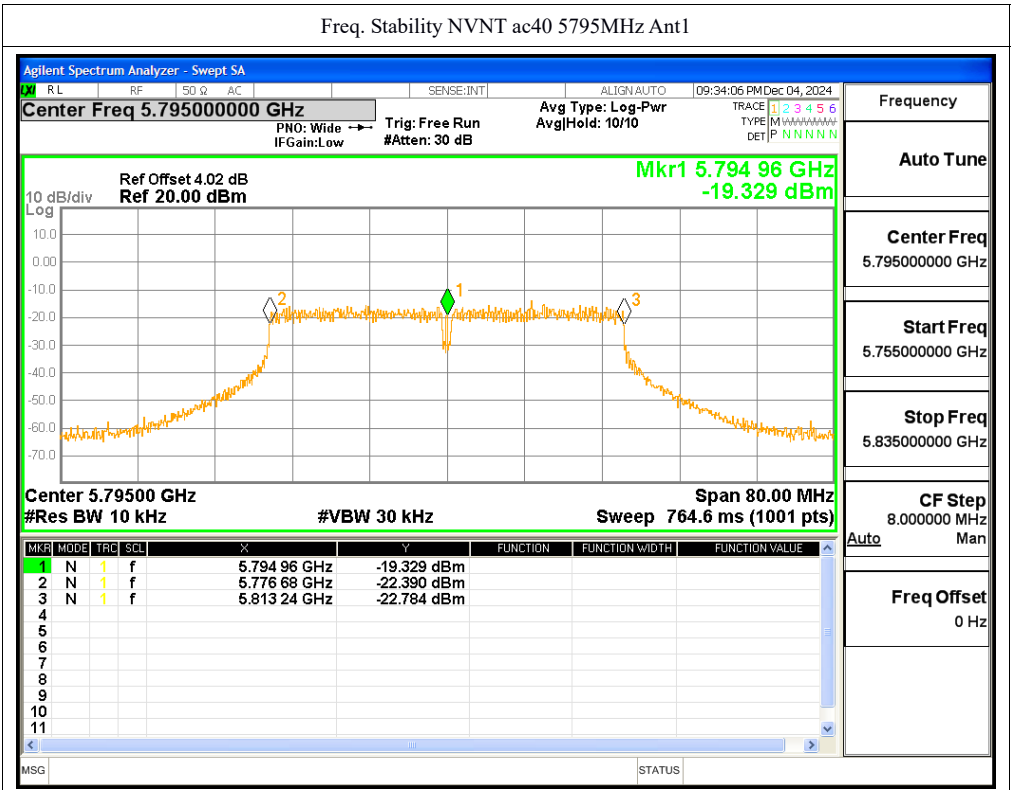
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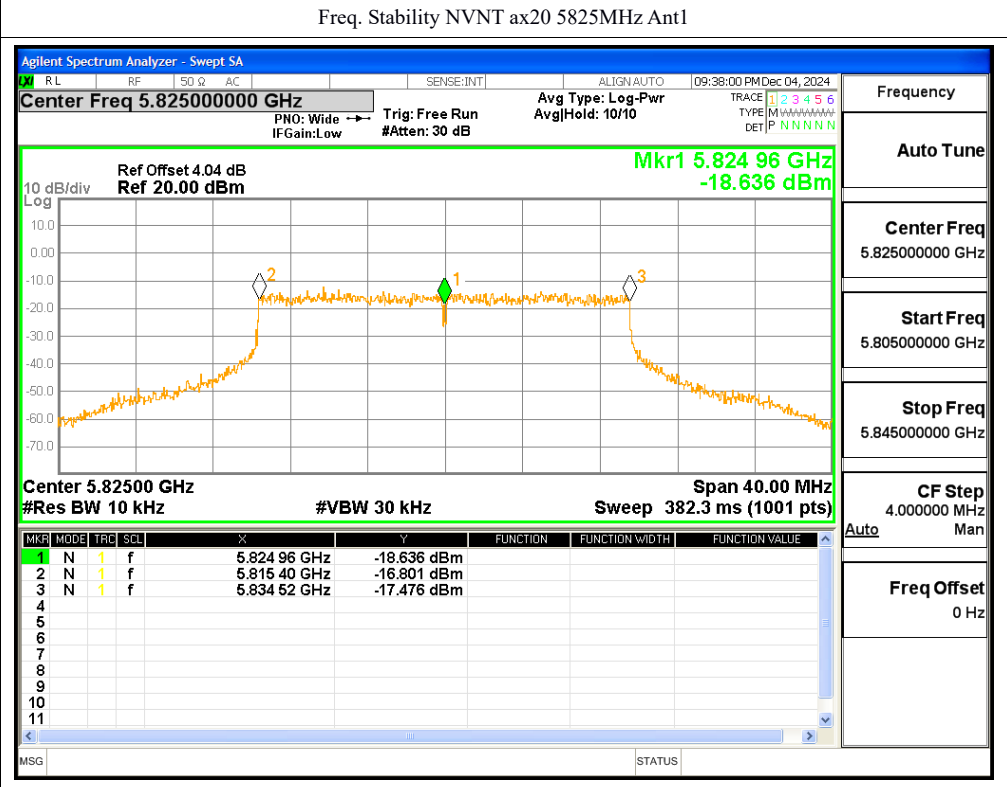
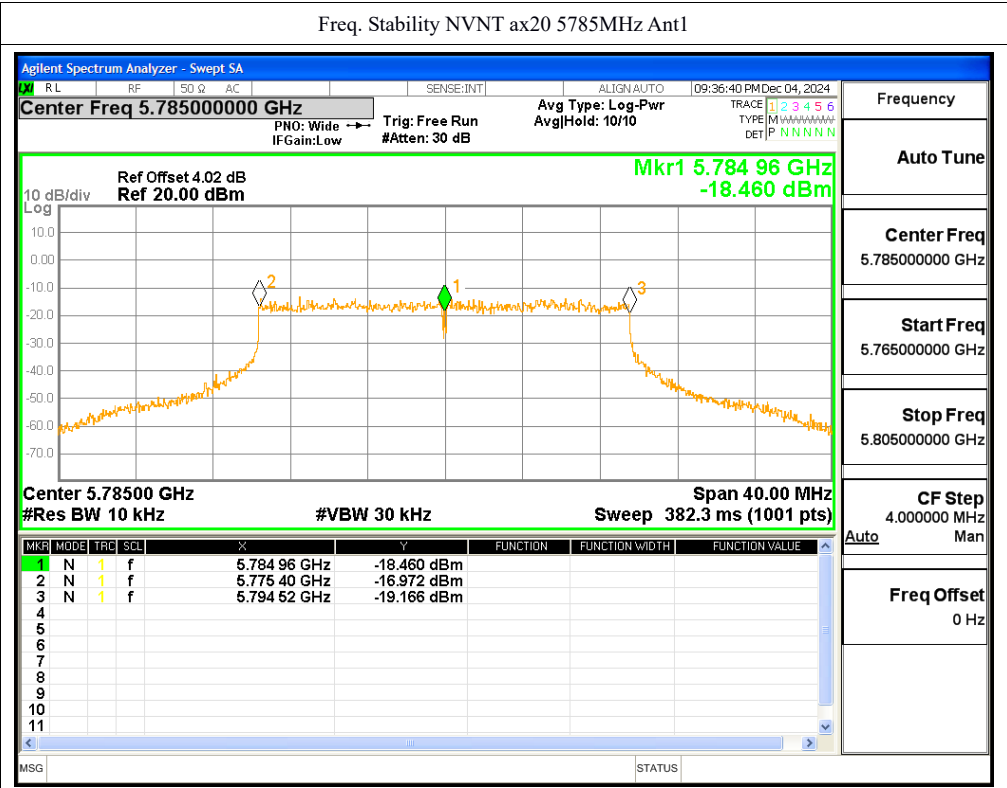
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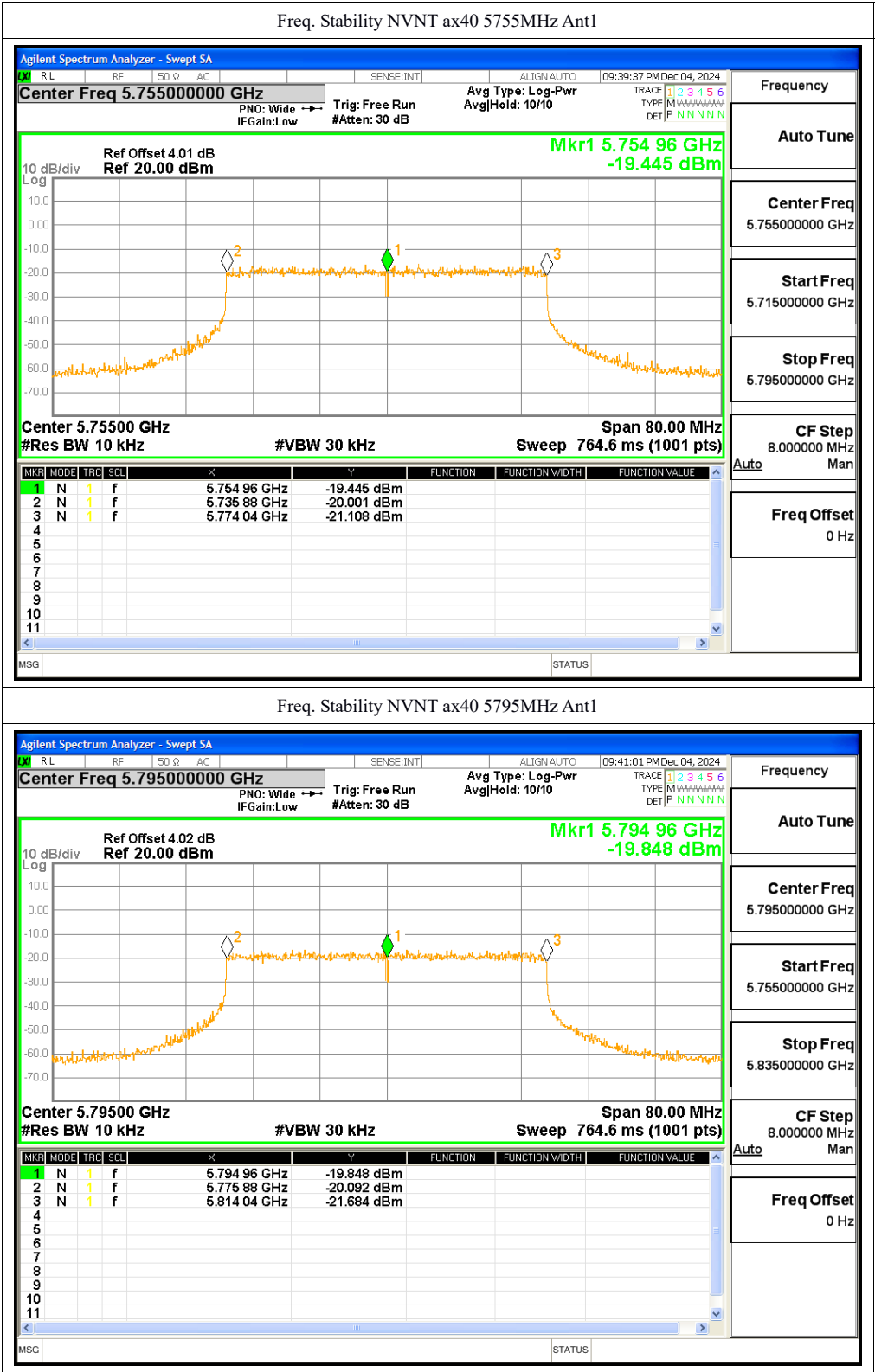
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11.0 Antenna Requirement

11.1 Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203, 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.

And according to FCC 47 CFR Section 15.247 (b), if transmitter antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

11.2 Antenna Connected construction

FPC antenna used. The gain of the antennas is 2.49dBi maximum. (Get from the antenna specification provided the applicant)

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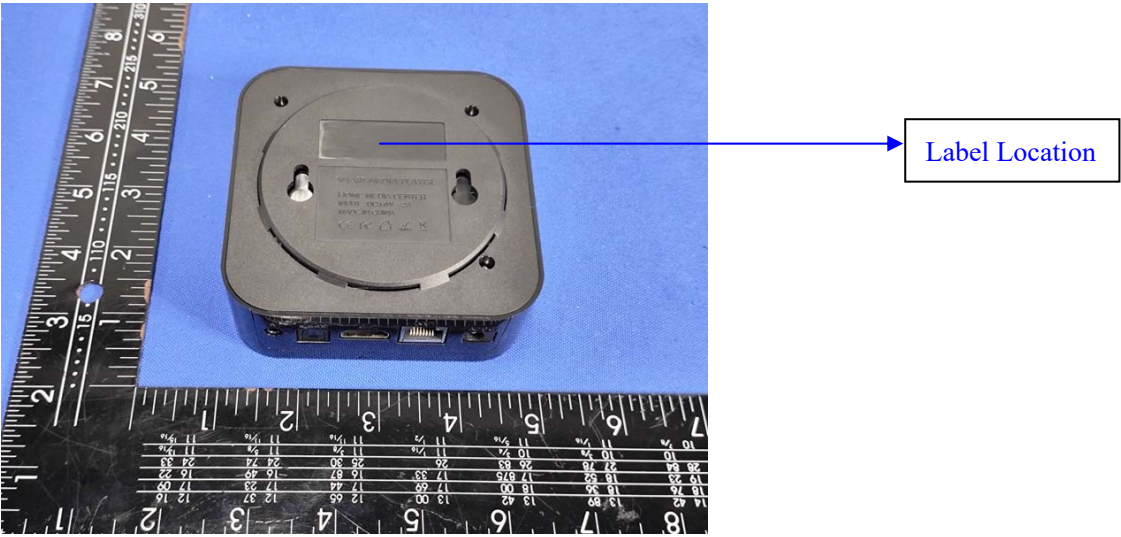


12.0 FCC ID Label

FCC ID: 2BMHL2PRO

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

Mark Location:



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13.0 Photo of testing

Conducted Emission Test Setup:



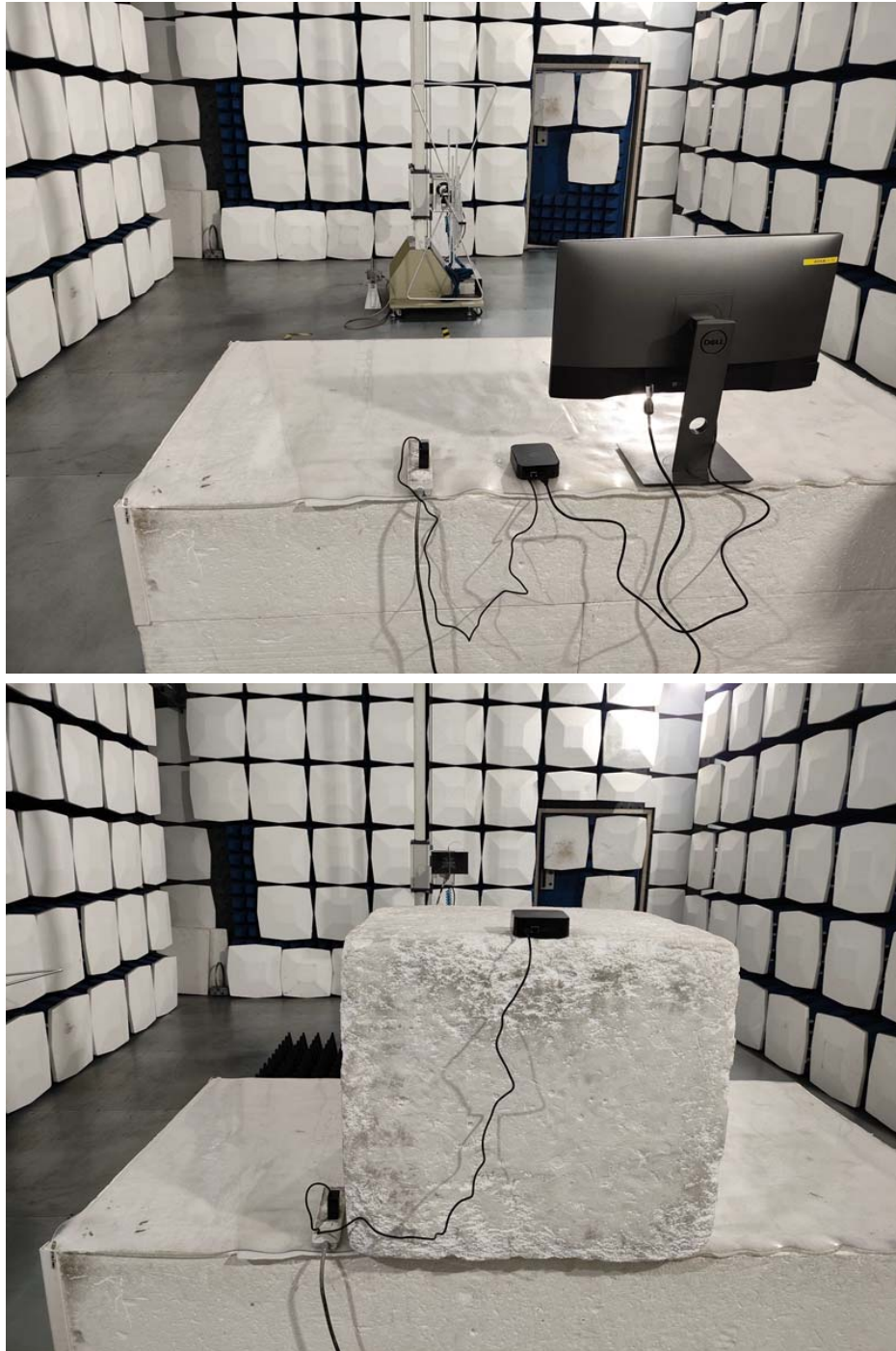
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Radiated Emission Test Setup



Photos of EUT

Please see test report TW2412082-01E

--End of the report--

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