



Appendix E

RF Test Data for 5.5GWIFI(Conducted Measurement)

Product Name: Digital Projector

Test Model: NeoPix 150

Environmental Conditions

Temperature:	23.5° C
Relative Humidity:	52.6%
ATM Pressure:	100.0 kPa
Test Engineer:	Jose Zhu
Supervised by:	Nick Peng



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E.1 -26dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
NVNT	a	5500	Ant1	28.792	≥ 0.5	Pass
NVNT	a	5580	Ant1	27.01	≥ 0.5	Pass
NVNT	a	5700	Ant1	28.813	≥ 0.5	Pass
NVNT	n20	5500	Ant1	29.371	≥ 0.5	Pass
NVNT	n20	5580	Ant1	26.67	≥ 0.5	Pass
NVNT	n20	5700	Ant1	27.33	≥ 0.5	Pass
NVNT	n40	5510	Ant1	49.456	≥ 0.5	Pass
NVNT	n40	5550	Ant1	52.026	≥ 0.5	Pass
NVNT	n40	5670	Ant1	52.148	≥ 0.5	Pass

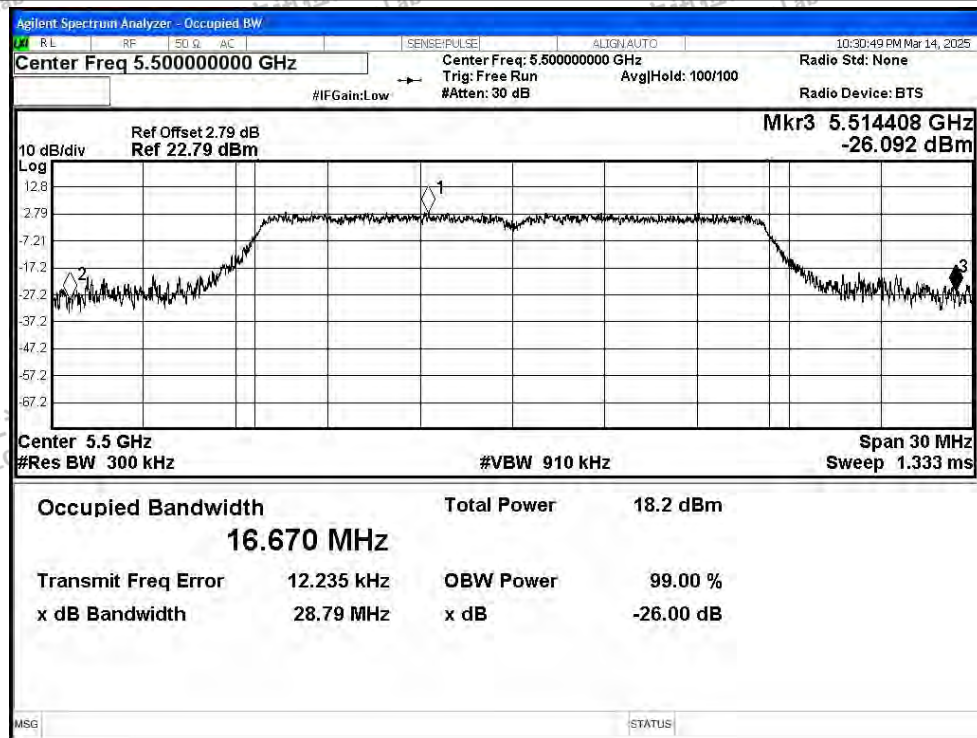


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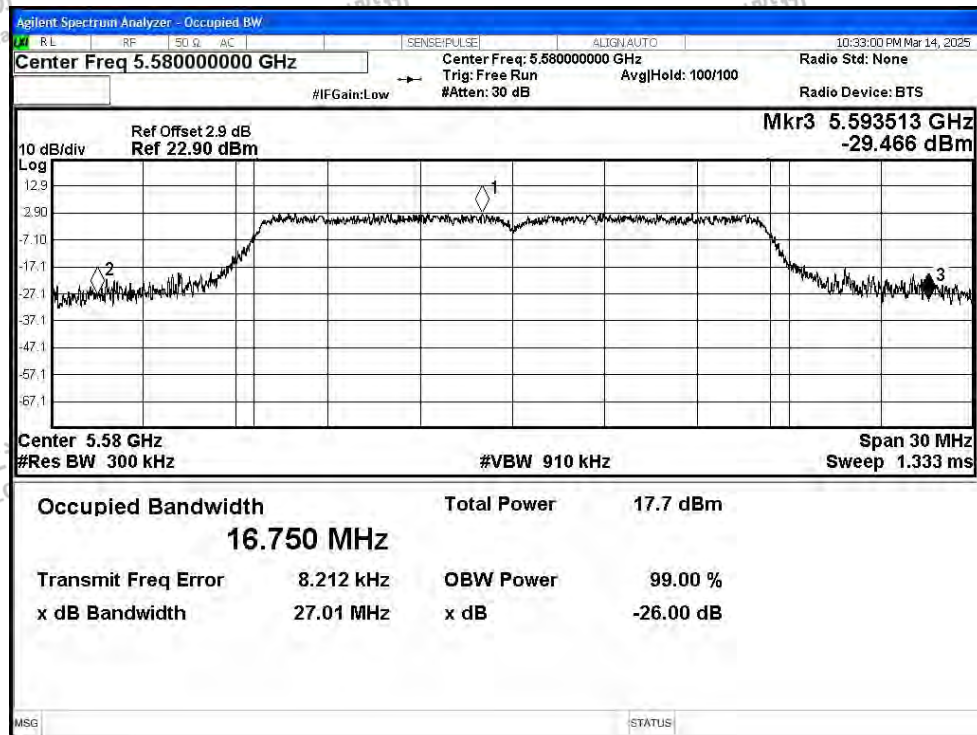


Test Graphs

-26dB Bandwidth NVNT a 5500MHz Ant1



-26dB Bandwidth NVNT a 5580MHz Ant1

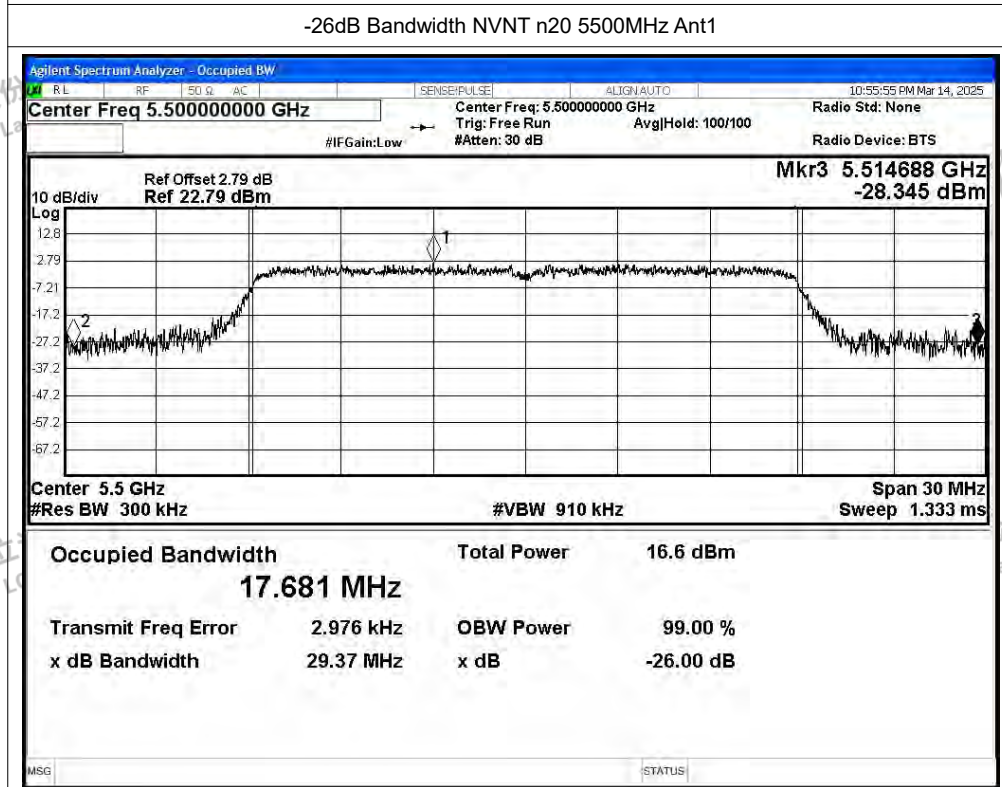
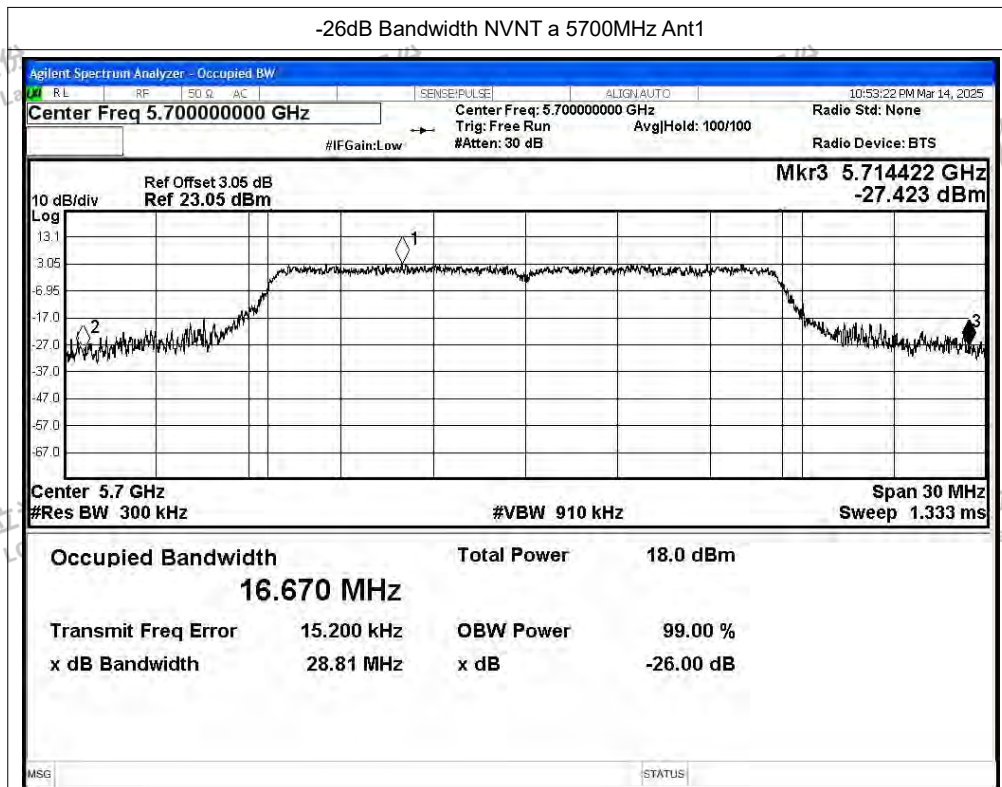


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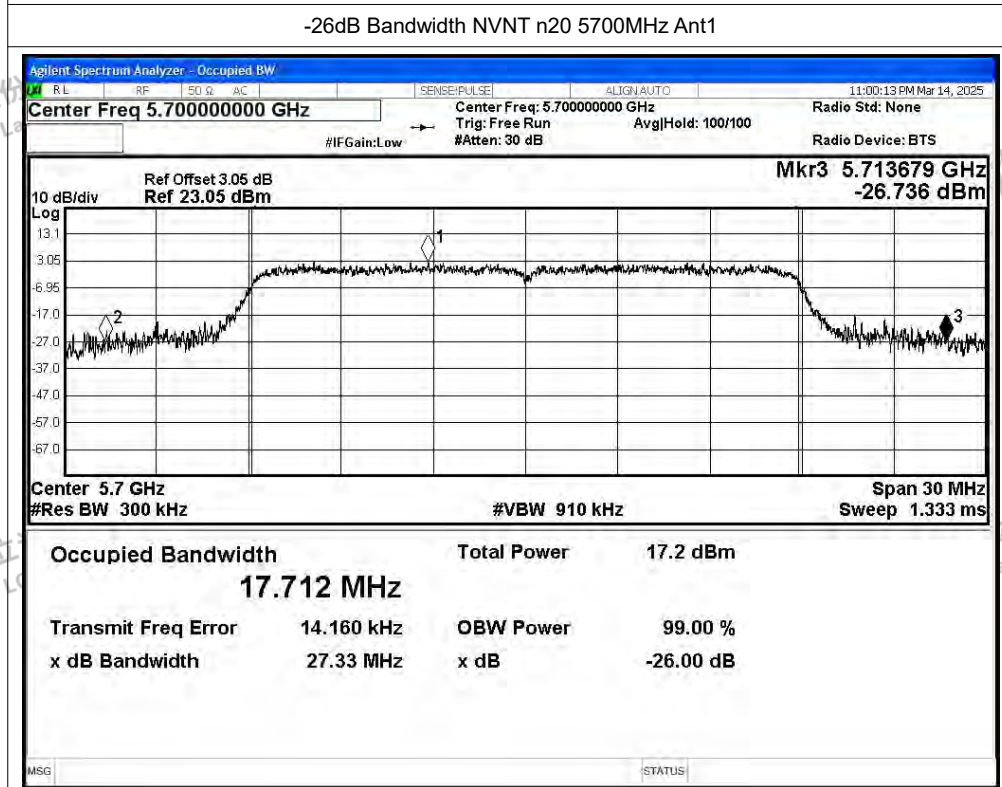
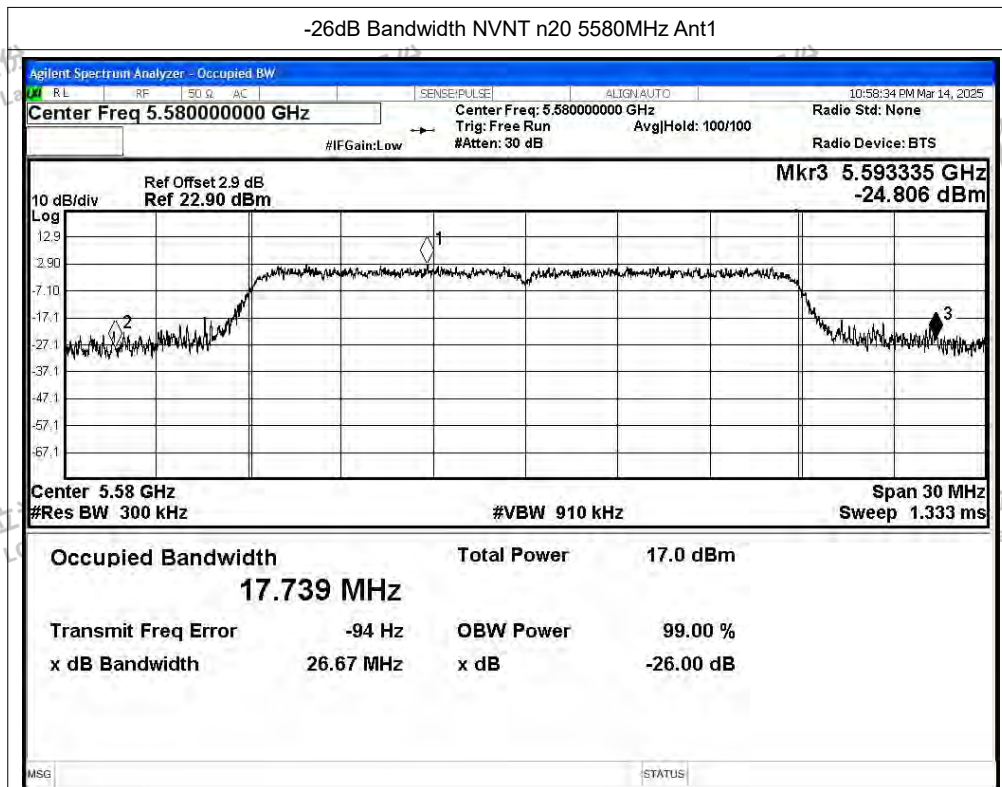


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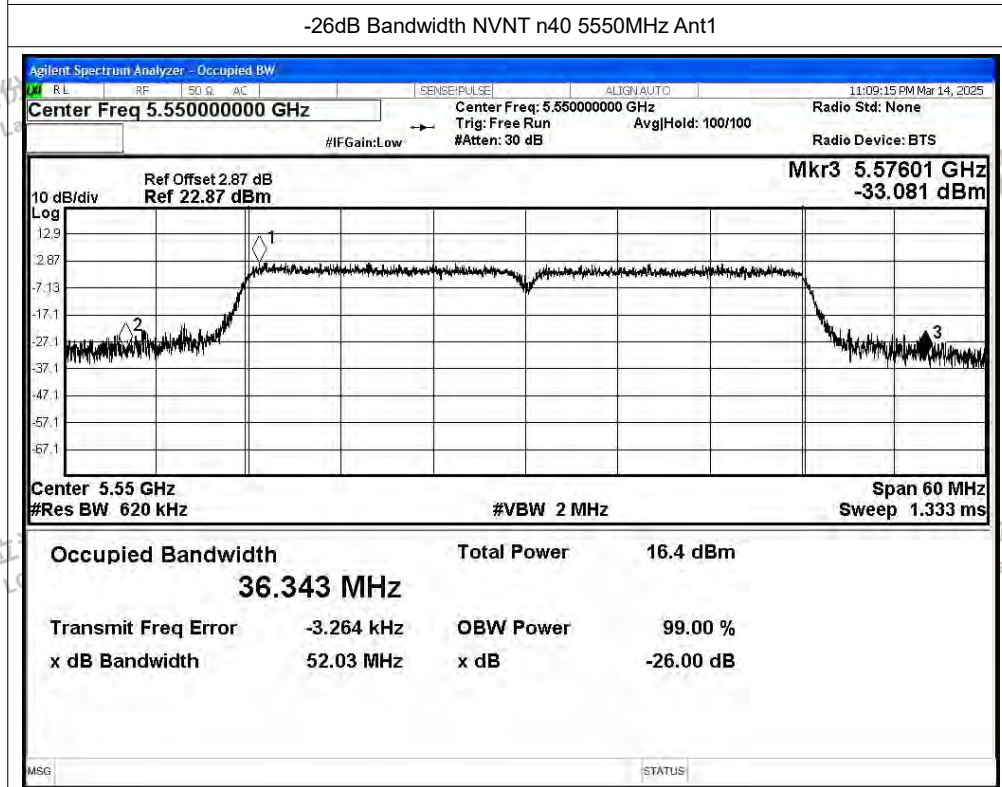
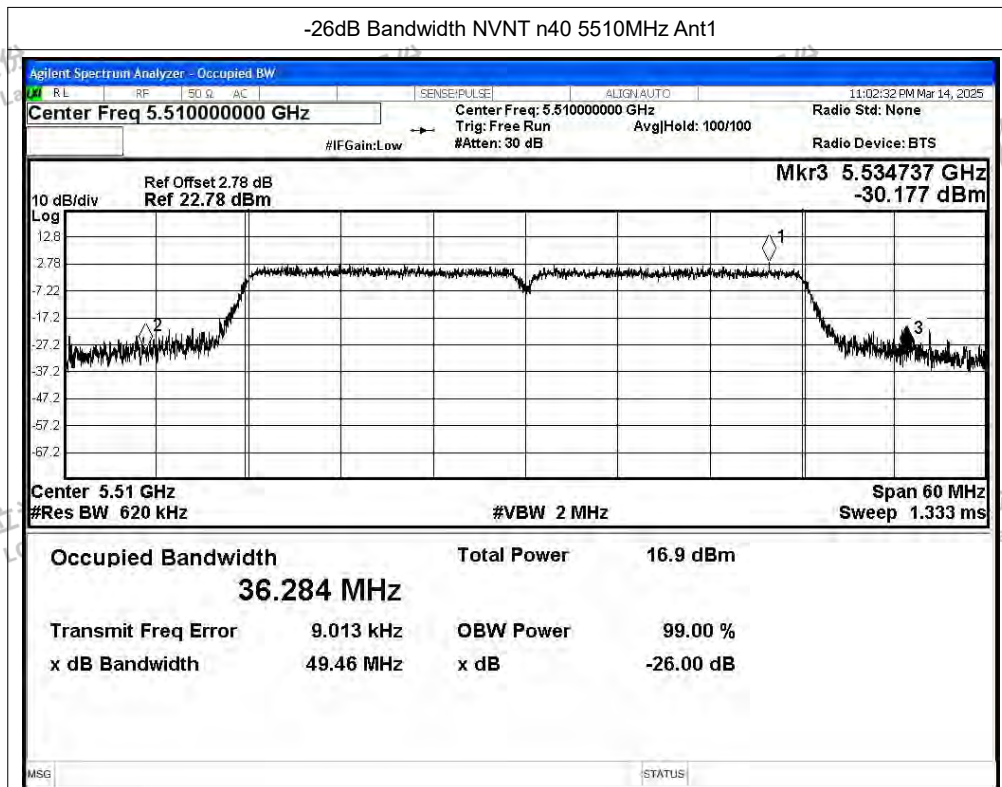


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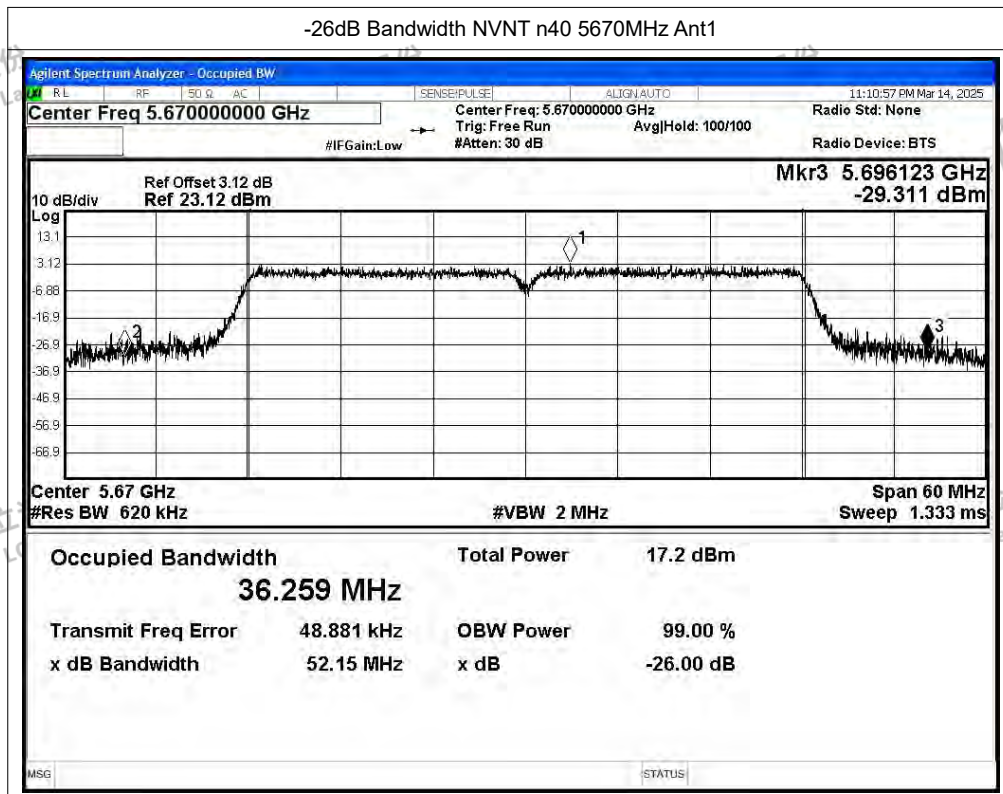


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E.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5500	Ant1	12.52	0.24	12.76	24	Pass
NVNT	a	5580	Ant1	12.01	0.24	12.25	23.75	Pass
NVNT	a	5700	Ant1	12.14	0.24	12.38	24	Pass
NVNT	n20	5500	Ant1	11.06	0.12	11.18	23.92	Pass
NVNT	n20	5580	Ant1	11.49	0.12	11.61	23.87	Pass
NVNT	n20	5700	Ant1	11.72	0.12	11.84	24	Pass
NVNT	n40	5510	Ant1	10.65	0.24	10.89	24	Pass
NVNT	n40	5550	Ant1	10.25	0.24	10.49	24	Pass
NVNT	n40	5670	Ant1	10.88	0.24	11.12	24	Pass



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E.3 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5500	Ant1	1.75	0.24	1.99	11	Pass
NVNT	a	5580	Ant1	1.44	0.24	1.68	11	Pass
NVNT	a	5700	Ant1	1.74	0.24	1.98	11	Pass
NVNT	n20	5500	Ant1	0.33	0.12	0.45	11	Pass
NVNT	n20	5580	Ant1	1.05	0.12	1.17	11	Pass
NVNT	n20	5700	Ant1	1.19	0.12	1.31	11	Pass
NVNT	n40	5510	Ant1	-3.13	0.24	-2.89	11	Pass
NVNT	n40	5550	Ant1	-3.11	0.24	-2.87	11	Pass
NVNT	n40	5670	Ant1	-3.05	0.24	-2.81	11	Pass

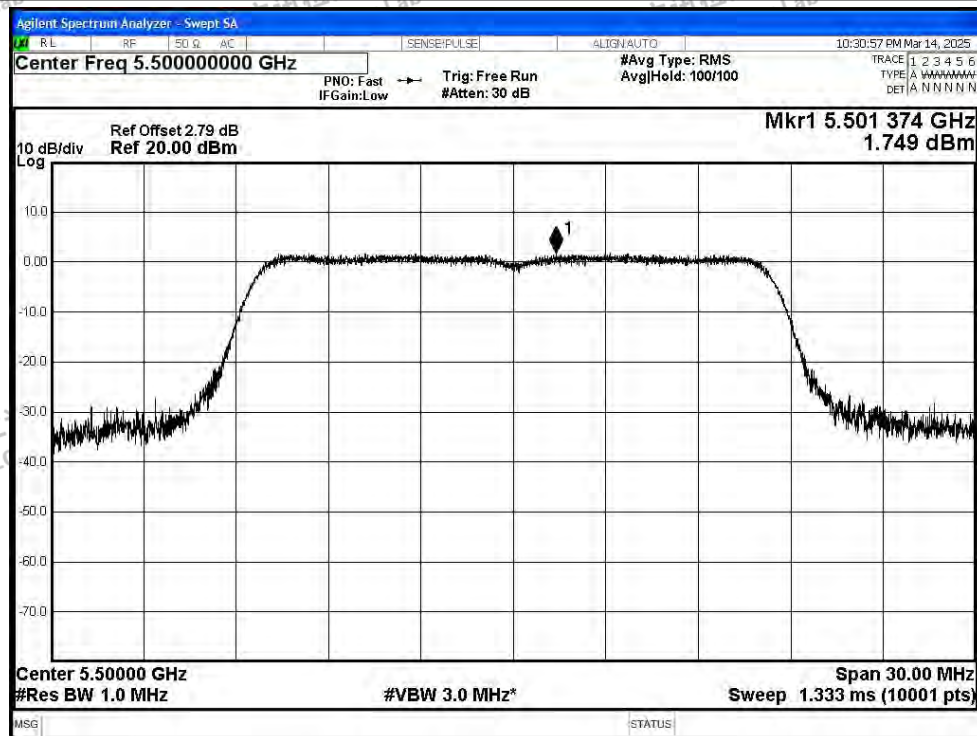


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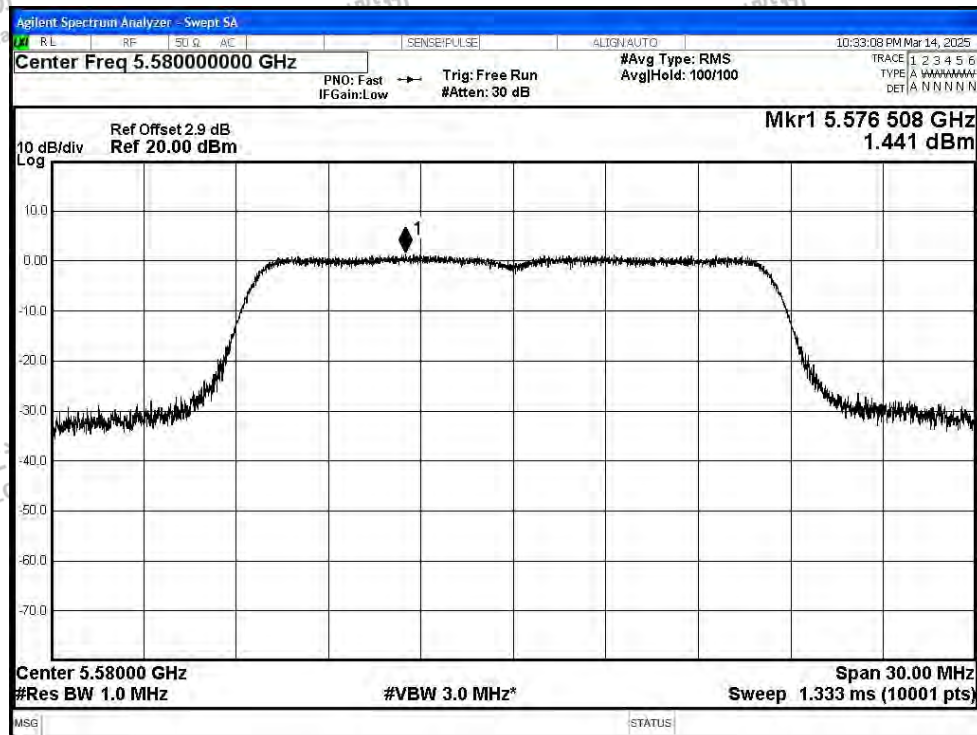


Test Graphs

PSD NVNT a 5500MHz Ant1



PSD NVNT a 5580MHz Ant1



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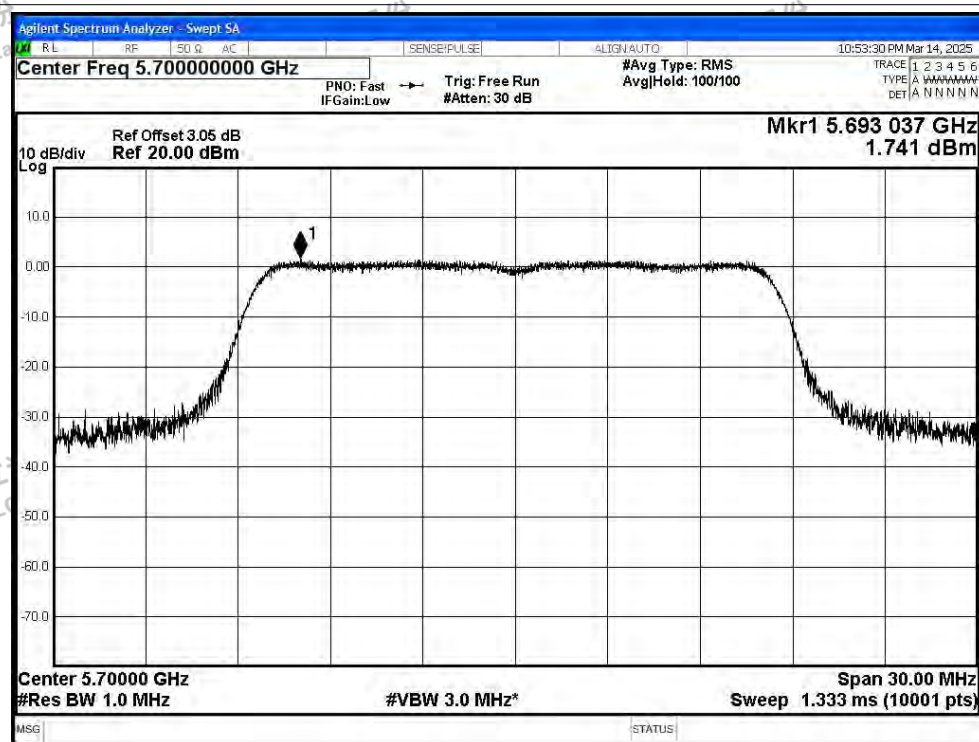
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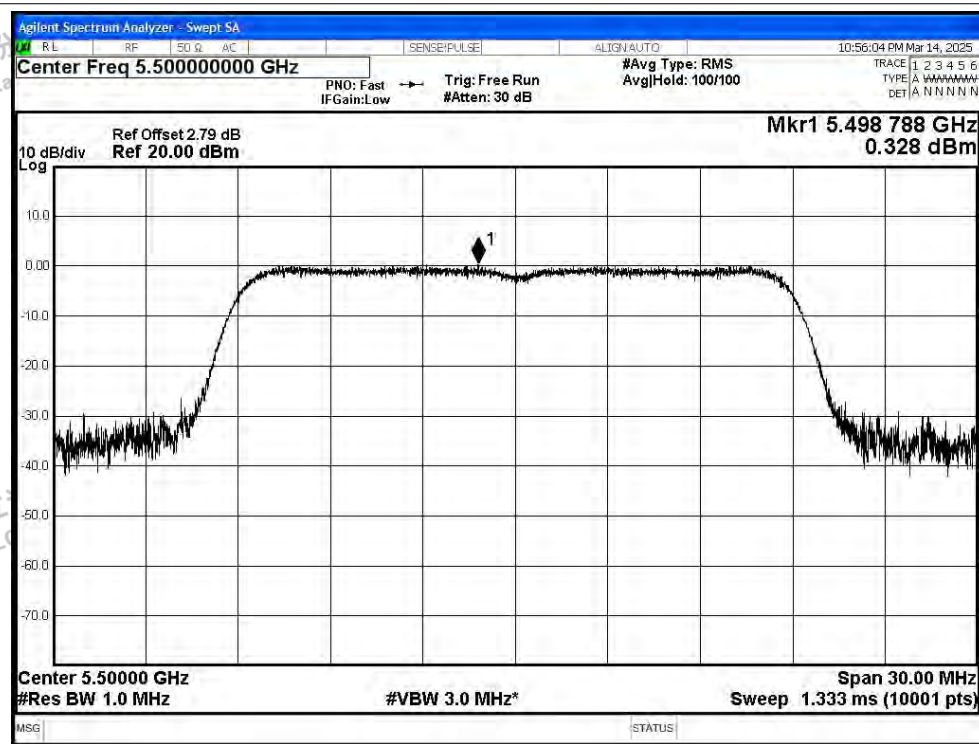
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PSD NVNT a 5700MHz Ant1



PSD NVNT n20 5500MHz Ant1

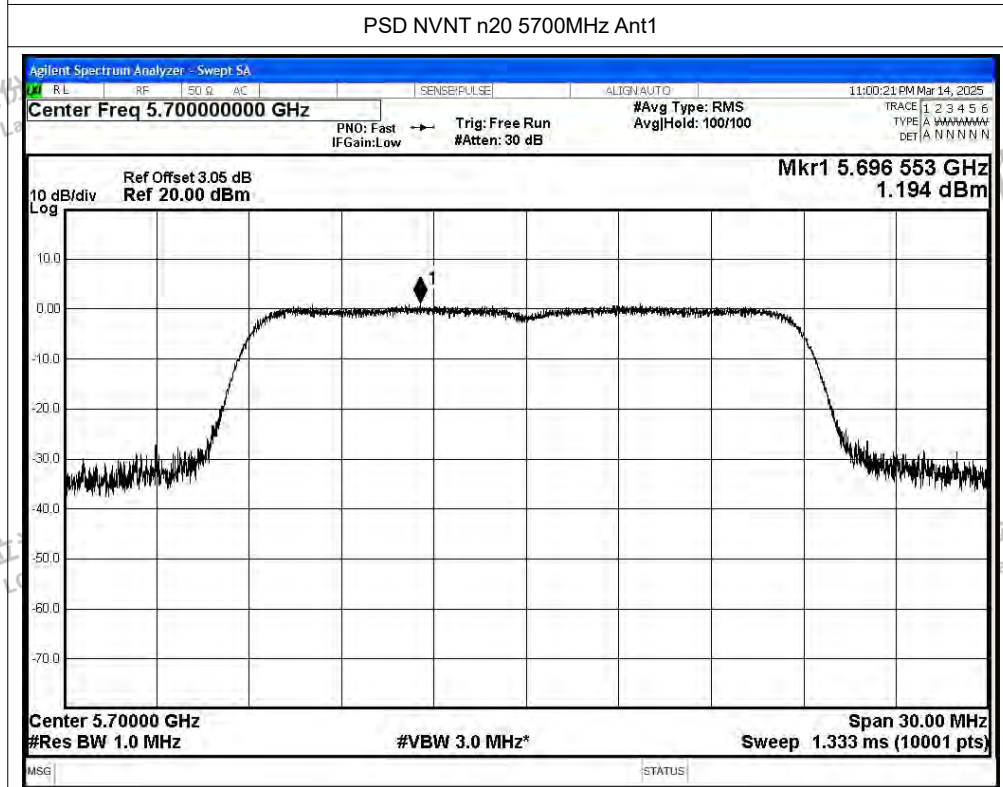
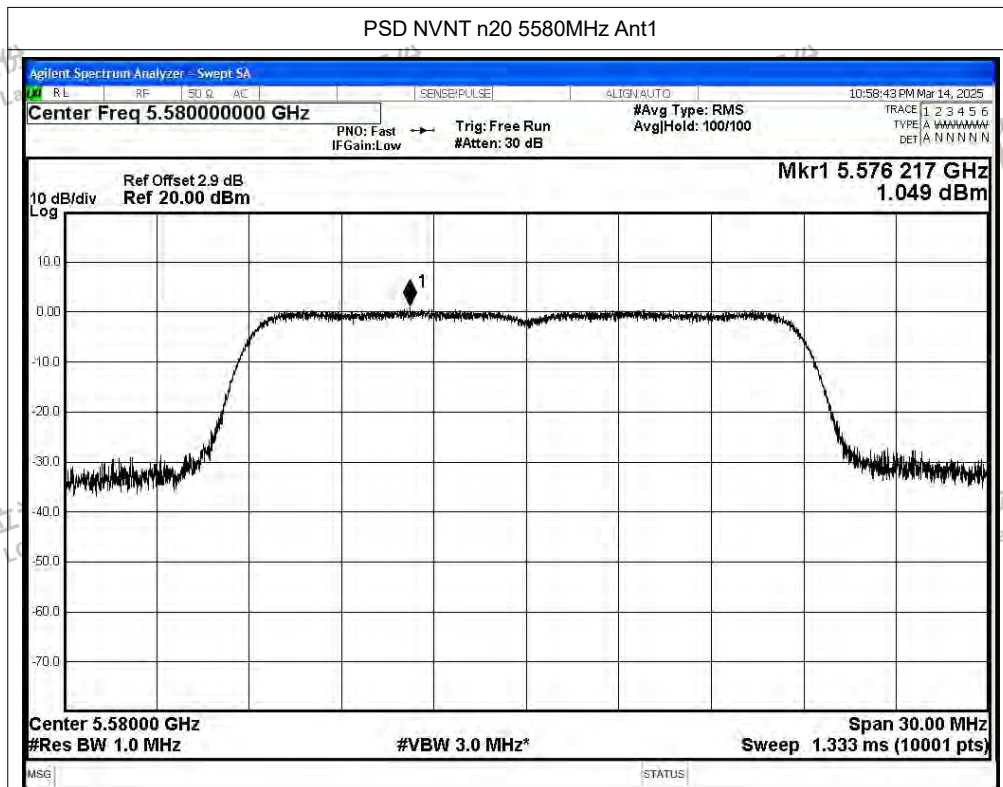


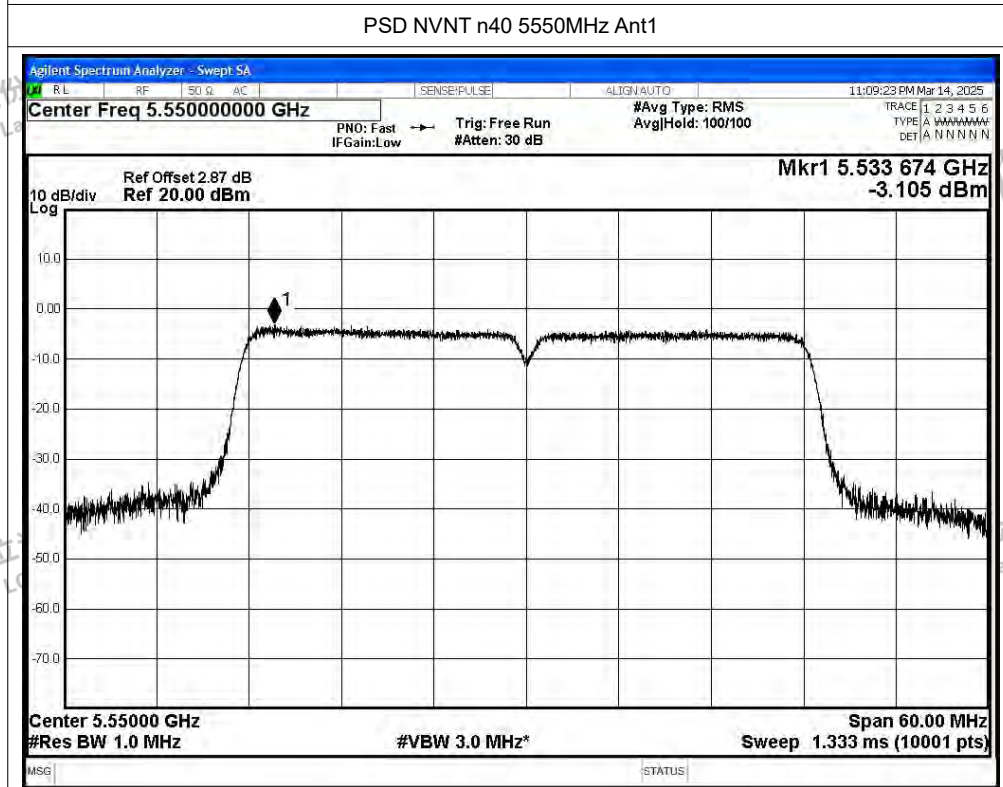
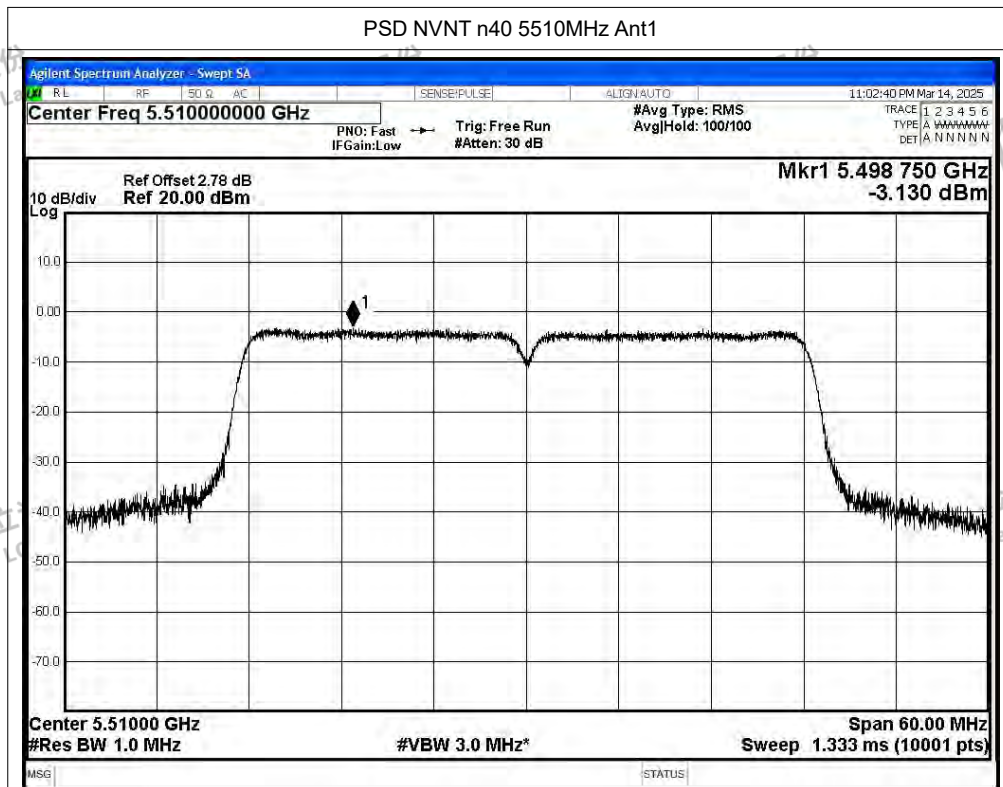
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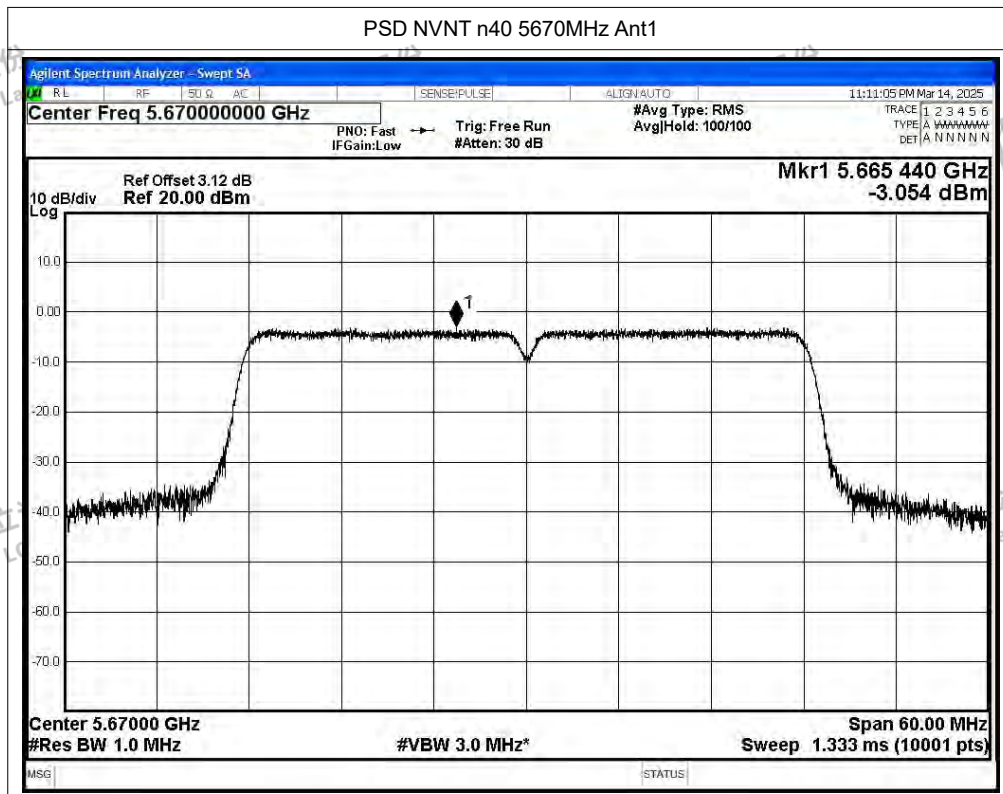


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E.4 Restrict Band

Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	a	5500	Ant1	5460	-50.35	2.27	-	47.15	Peak	68.2	Pass
NVNT	a	5500	Ant1	5460	-58.61	2.27	0.24	39.13	Average	54	Pass
NVNT	a	5500	Ant1	5468.8	-45.86	2.27	-	51.64	Peak	68.2	Pass
NVNT	a	5500	Ant1	5469.2	-56.84	2.27	0.24	40.9	Average	54	Pass
NVNT	a	5500	Ant1	5470	-48.92	2.27	-	48.58	Peak	68.2	Pass
NVNT	a	5500	Ant1	5470	-58.09	2.27	0.24	39.65	Average	54	Pass
NVNT	a	5700	Ant1	5725	-42.75	2.27	-	54.75	Peak	68.2	Pass
NVNT	a	5700	Ant1	5725	-55.82	2.27	0.24	41.92	Average	54	Pass
NVNT	a	5700	Ant1	5725.6	-40.76	2.27	-	56.74	Peak	68.2	Pass
NVNT	a	5700	Ant1	5726.4	-55.56	2.27	0.24	42.18	Average	54	Pass
NVNT	a	5700	Ant1	5735	-50.48	2.27	-	47.02	Peak	68.2	Pass
NVNT	a	5700	Ant1	5735	-58.15	2.27	0.24	39.59	Average	54	Pass
NVNT	n20	5500	Ant1	5460	-47.97	2.27	-	49.53	Peak	68.2	Pass
NVNT	n20	5500	Ant1	5460	-58.11	2.27	0.12	39.51	Average	54	Pass
NVNT	n20	5500	Ant1	5464.6	-44.34	2.27	-	53.16	Peak	68.2	Pass
NVNT	n20	5500	Ant1	5468.4	-56.83	2.27	0.12	40.79	Average	54	Pass
NVNT	n20	5500	Ant1	5470	-48.77	2.27	-	48.73	Peak	68.2	Pass
NVNT	n20	5500	Ant1	5470	-56.94	2.27	0.12	40.68	Average	54	Pass
NVNT	n20	5700	Ant1	5725	-40.72	2.27	-	56.78	Peak	68.2	Pass
NVNT	n20	5700	Ant1	5725	-54.53	2.27	0.12	43.09	Average	54	Pass
NVNT	n20	5700	Ant1	5725.2	-54.34	2.27	0.12	43.28	Average	54	Pass
NVNT	n20	5700	Ant1	5735	-47.47	2.27	-	50.03	Peak	68.2	Pass
NVNT	n20	5700	Ant1	5735	-57.85	2.27	0.12	39.77	Average	54	Pass
NVNT	n40	5510	Ant1	5460	-50.09	2.27	-	47.41	Peak	68.2	Pass
NVNT	n40	5510	Ant1	5460	-57.8	2.27	0.24	39.94	Average	54	Pass
NVNT	n40	5510	Ant1	5470	-43.09	2.27	-	54.41	Peak	68.2	Pass
NVNT	n40	5510	Ant1	5469.8	-55.87	2.27	0.24	41.87	Average	54	Pass
NVNT	n40	5510	Ant1	5470	-56.36	2.27	0.24	41.38	Average	54	Pass
NVNT	n40	5670	Ant1	5725	-49.1	2.27	-	48.4	Peak	68.2	Pass
NVNT	n40	5670	Ant1	5725	-57.8	2.27	0.24	39.94	Average	54	Pass
NVNT	n40	5670	Ant1	5726.4	-48.1	2.27	-	49.4	Peak	68.2	Pass
NVNT	n40	5670	Ant1	5734.4	-57.56	2.27	0.24	40.18	Average	54	Pass
NVNT	n40	5670	Ant1	5735	-50.6	2.27	-	46.9	Peak	68.2	Pass
NVNT	n40	5670	Ant1	5735	-58.35	2.27	0.24	39.39	Average	54	Pass



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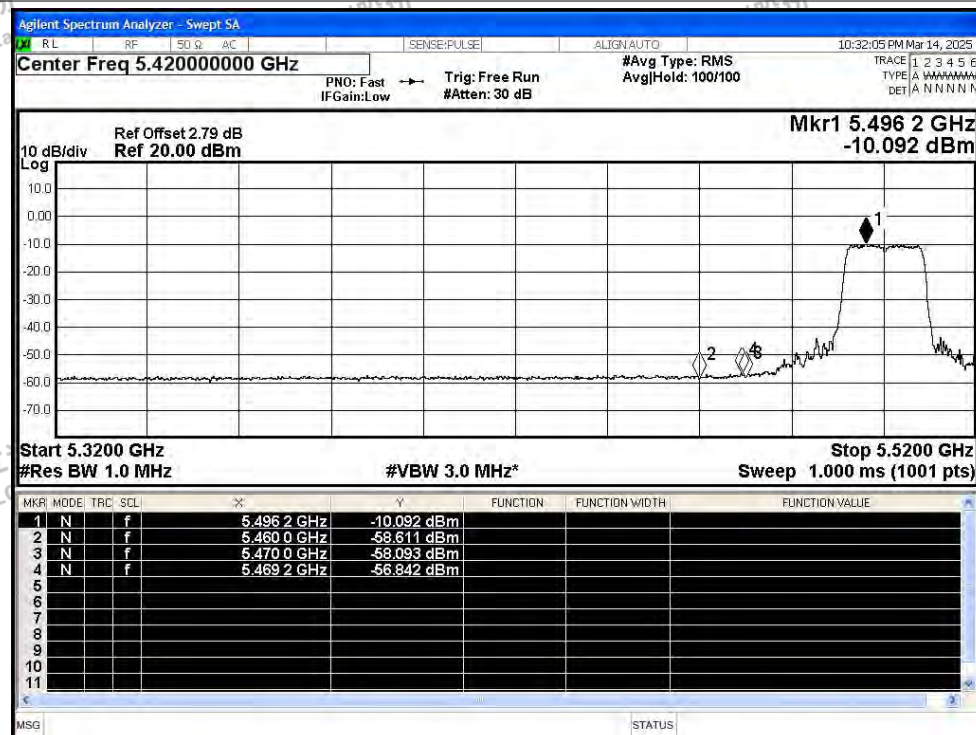


Test Graphs

Restrict Band NVNT a 5500MHz Ant1 Peak



Restrict Band NVNT a 5500MHz Ant1 Average



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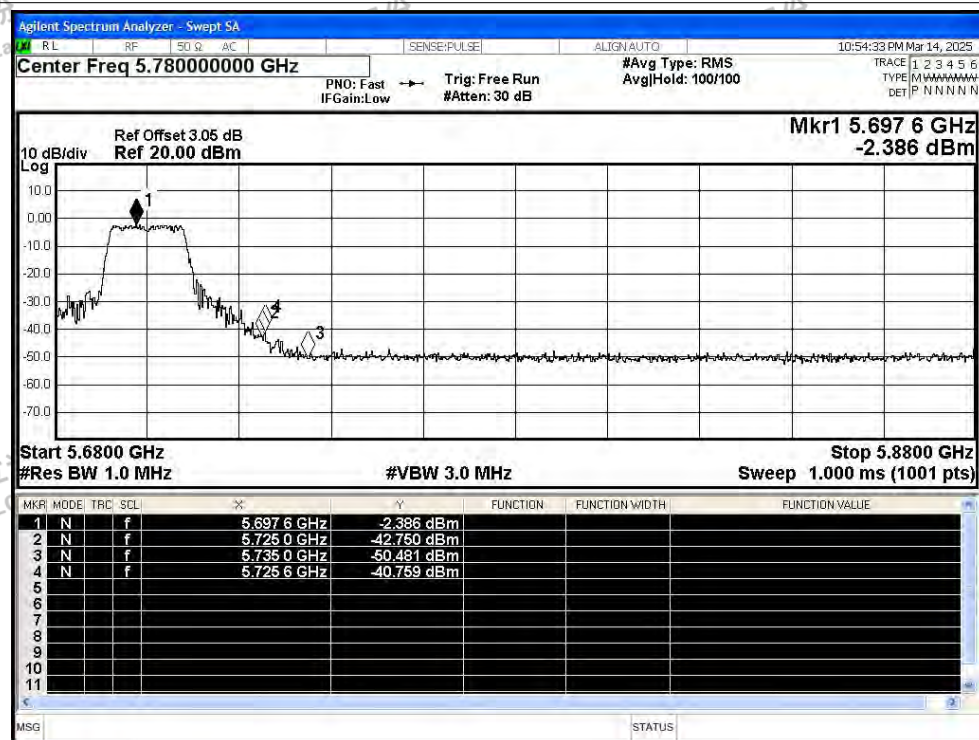
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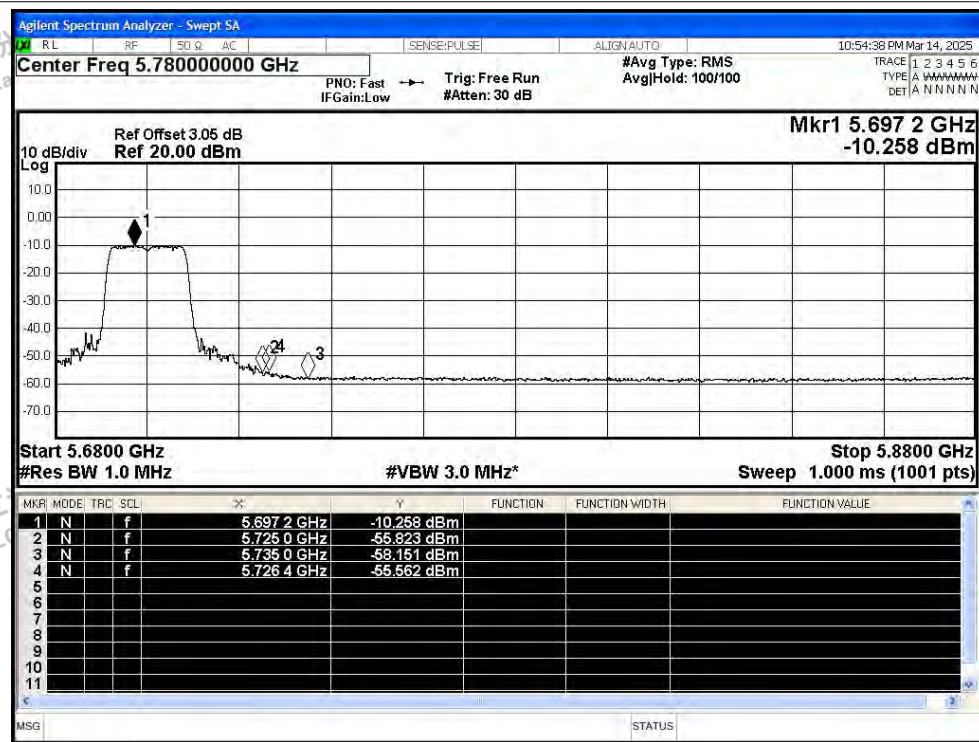
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Restrict Band NVNT a 5700MHz Ant1 Peak



Restrict Band NVNT a 5700MHz Ant1 Average



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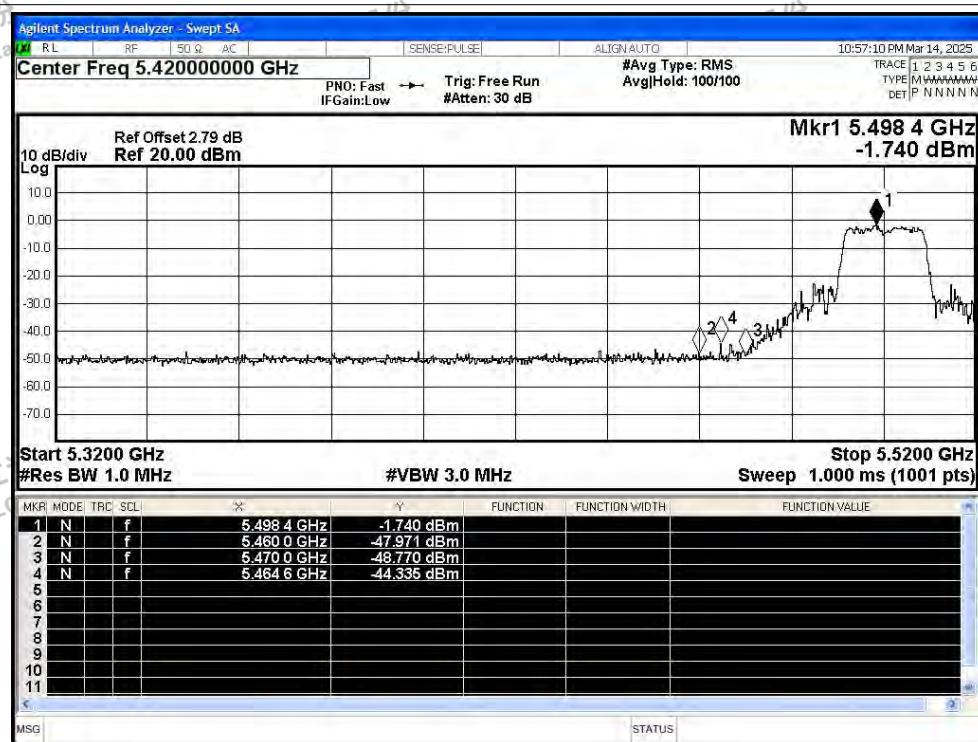
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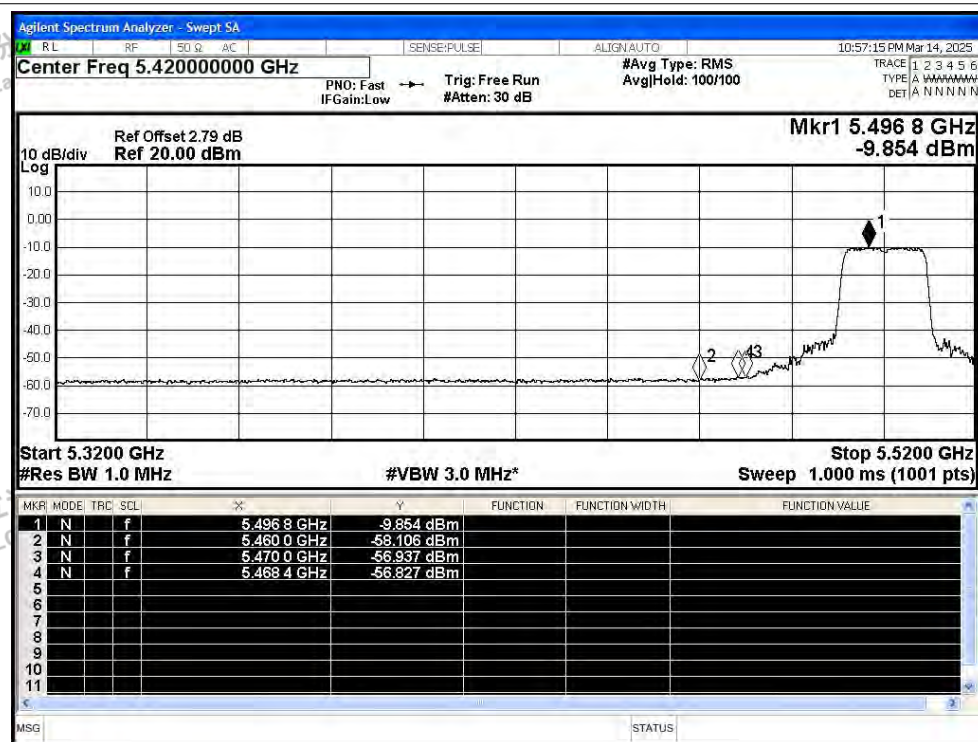
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Restrict Band NVNT n20 5500MHz Ant1 Peak



Restrict Band NVNT n20 5500MHz Ant1 Average



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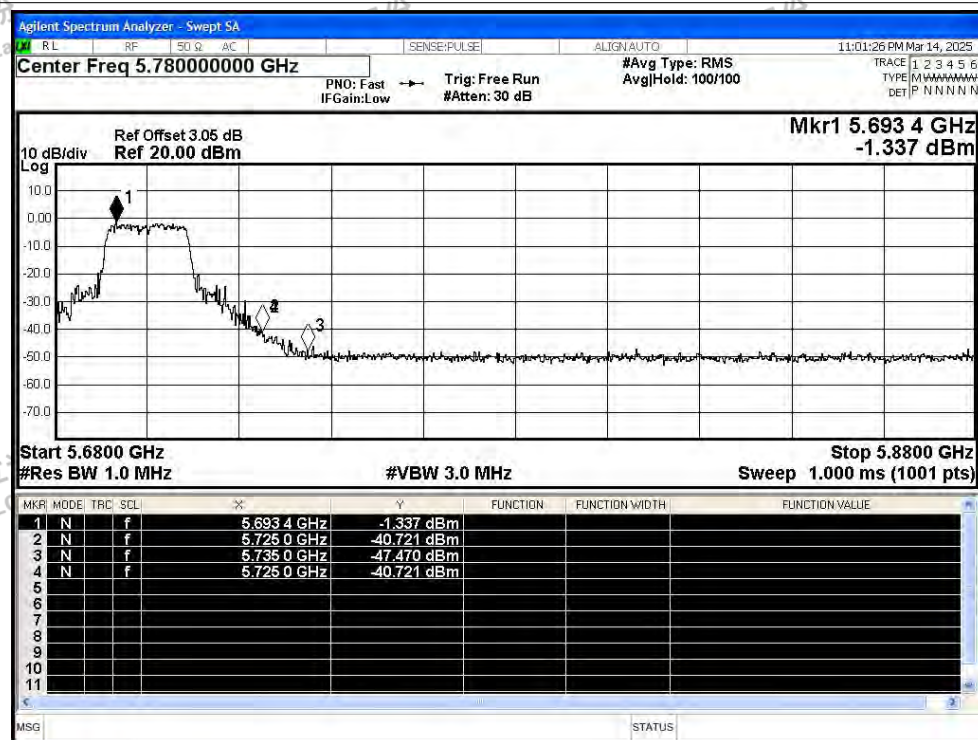
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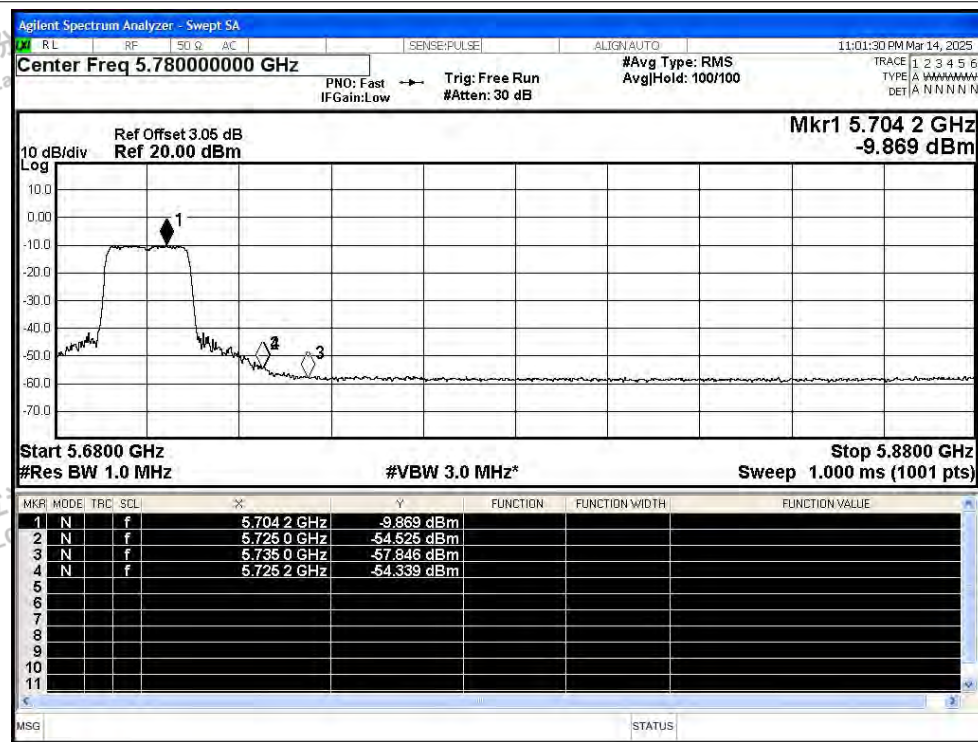
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Restrict Band NVNT n20 5700MHz Ant1 Peak



Restrict Band NVNT n20 5700MHz Ant1 Average



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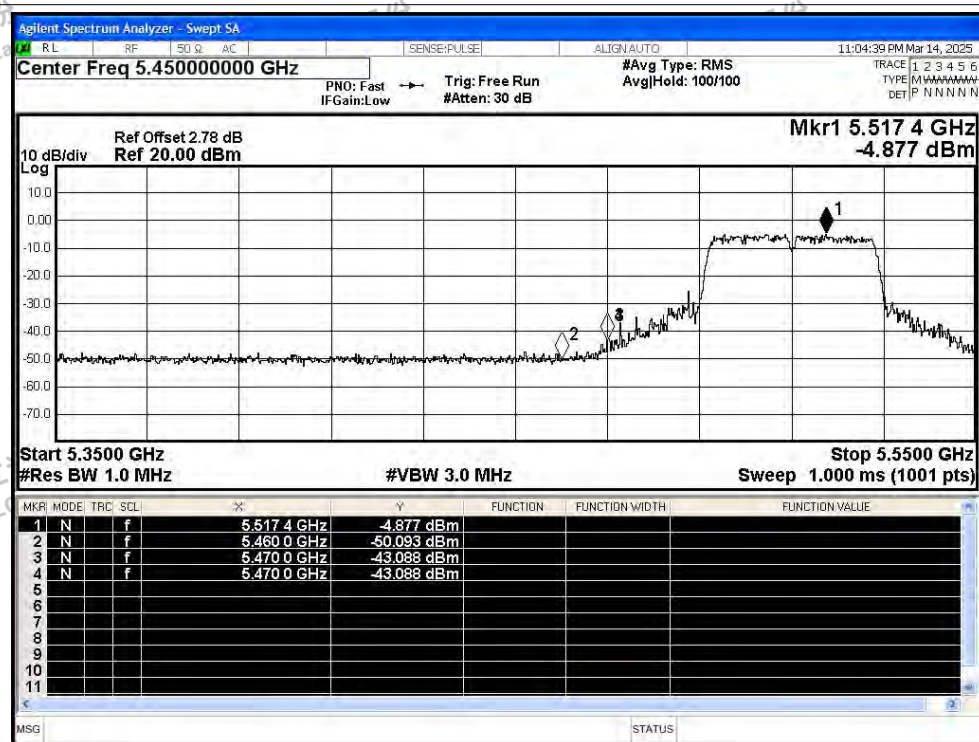
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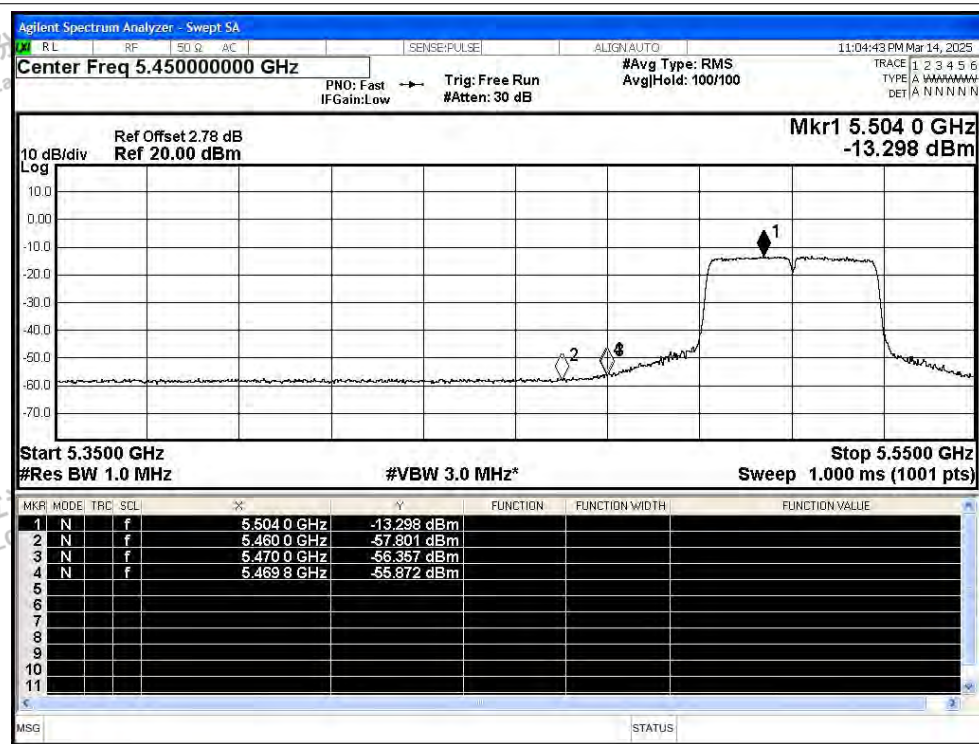
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Restrict Band NVNT n40 5510MHz Ant1 Peak



Restrict Band NVNT n40 5510MHz Ant1 Average



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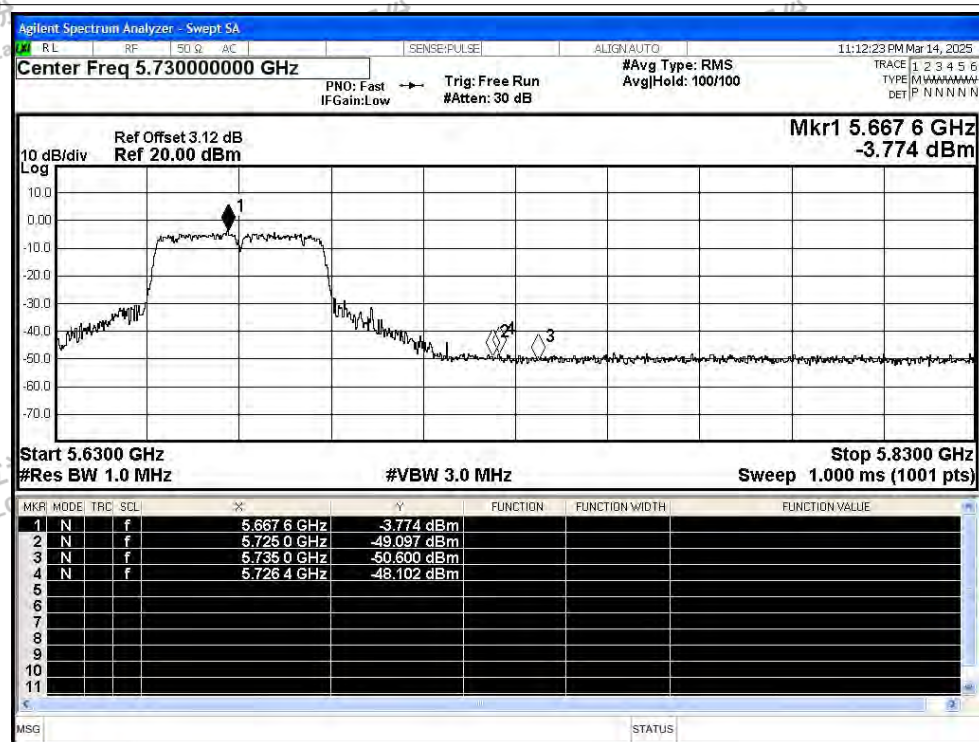
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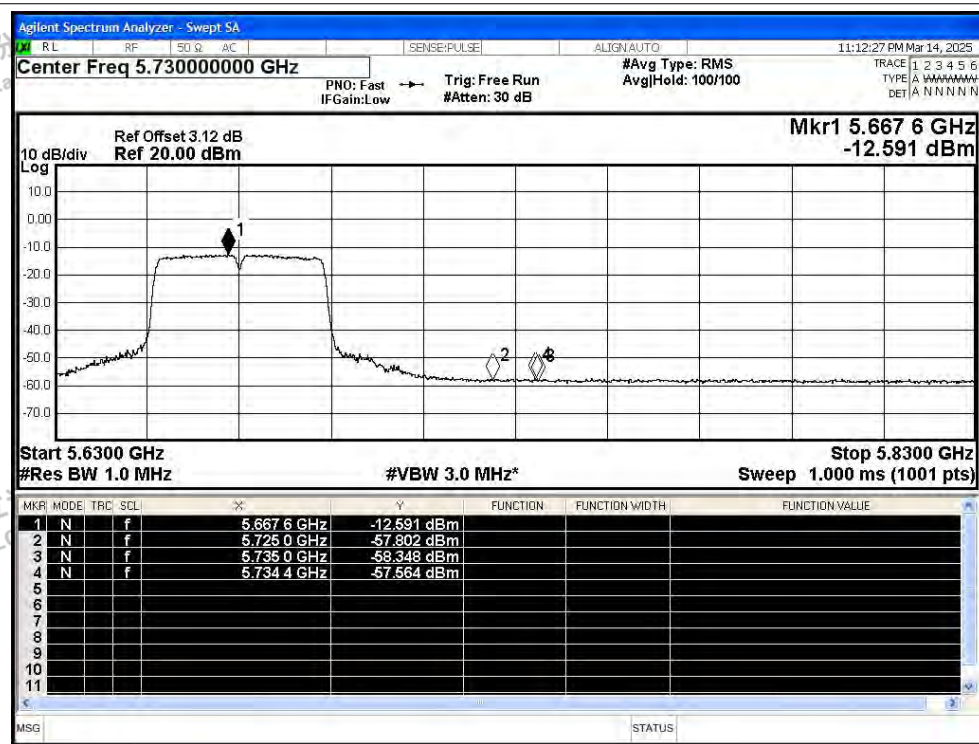
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Restrict Band NVNT n40 5670MHz Ant1 Peak



Restrict Band NVNT n40 5670MHz Ant1 Average



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E.5 Frequency Stability

Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	a	5500	Ant1	5500	0	0	25	Pass
NVNT	a	5580	Ant1	5580	0	0	25	Pass
NVNT	a	5700	Ant1	5700.02	20000	3.51	25	Pass
NVNT	n20	5500	Ant1	5499.98	-20000	-3.64	25	Pass
NVNT	n20	5580	Ant1	5579.98	-20000	-3.58	25	Pass
NVNT	n20	5700	Ant1	5699.98	-20000	-3.51	25	Pass
NVNT	n40	5510	Ant1	5510	0	0	25	Pass
NVNT	n40	5550	Ant1	5549.96	-40000	-7.21	25	Pass
NVNT	n40	5670	Ant1	5670	0	0	25	Pass

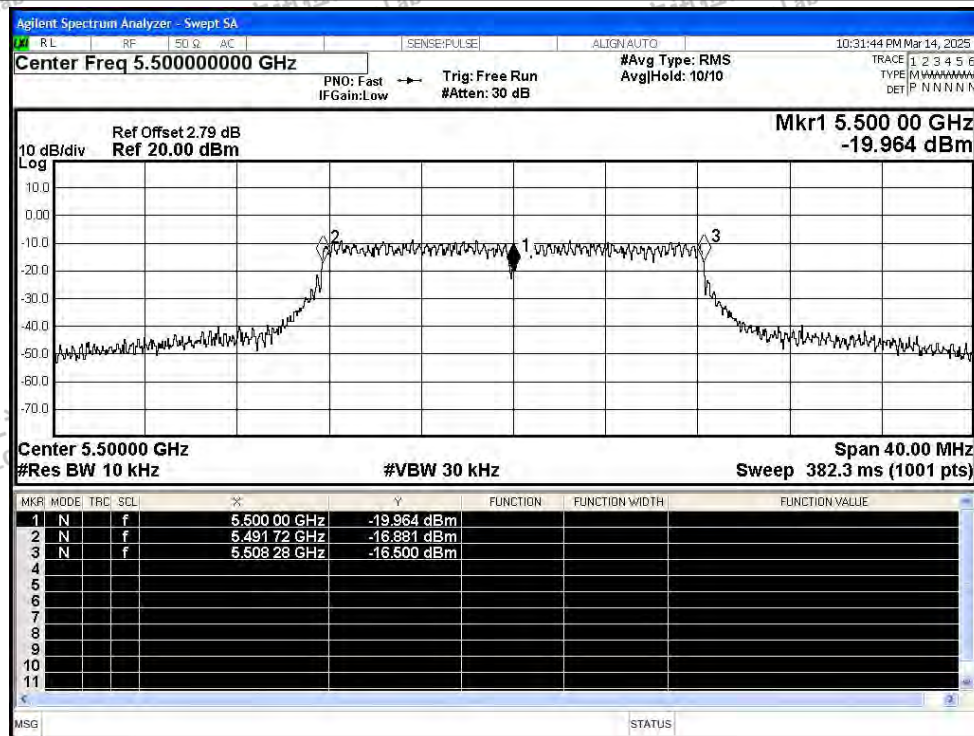


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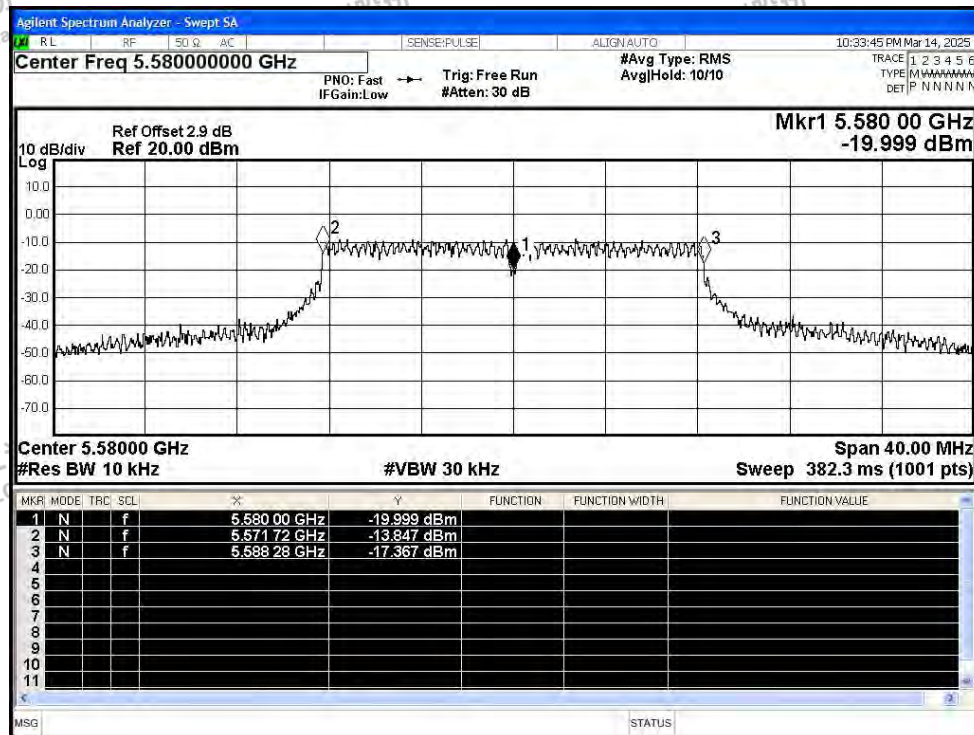


Test Graphs

Freq. Stability NVNT a 5500MHz Ant1



Freq. Stability NVNT a 5580MHz Ant1



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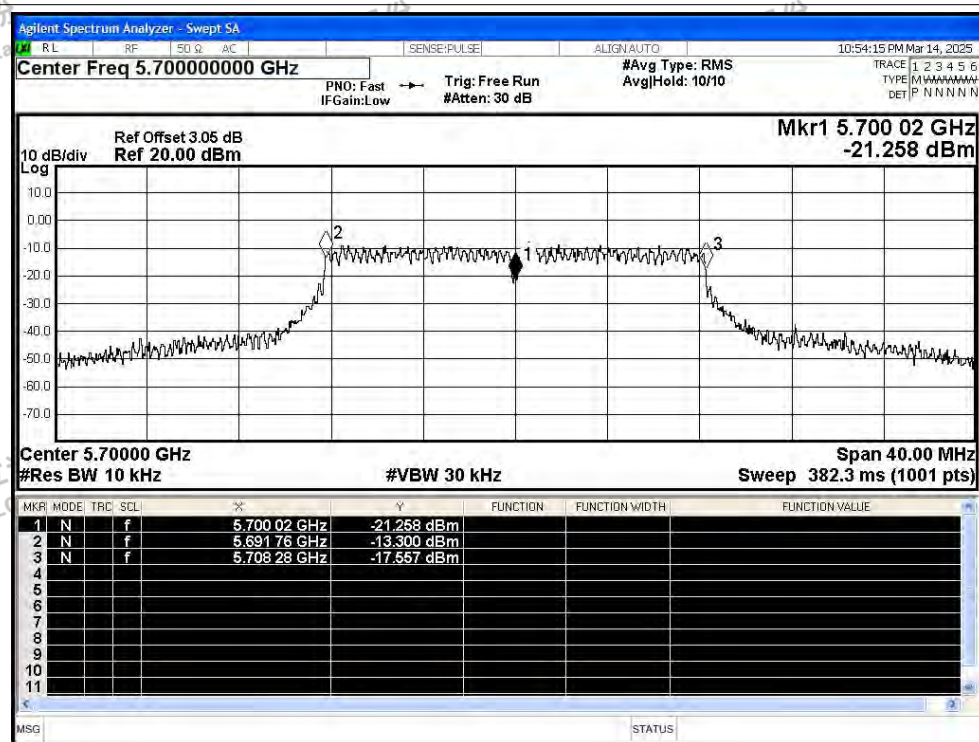
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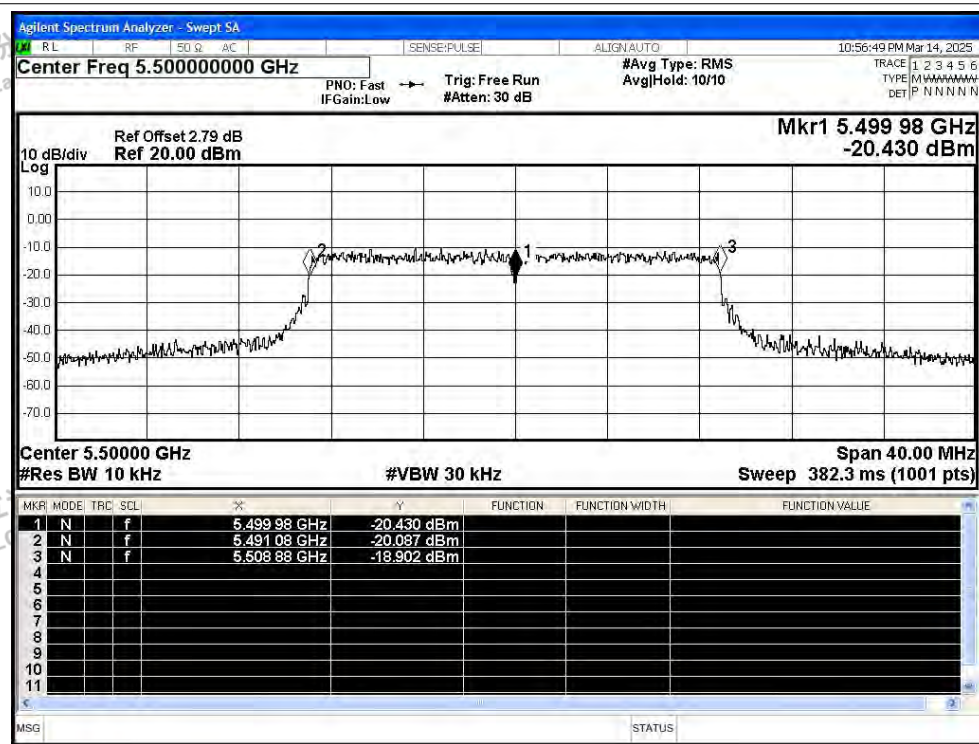
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Freq. Stability NVNT a 5700MHz Ant1



Freq. Stability NVNT n20 5500MHz Ant1



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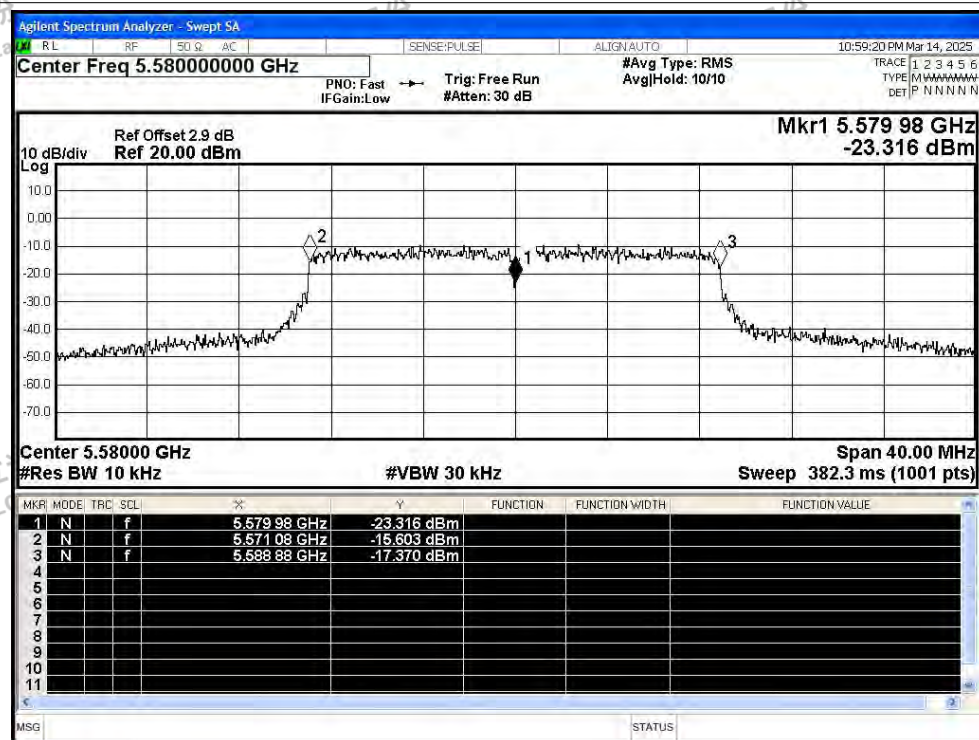
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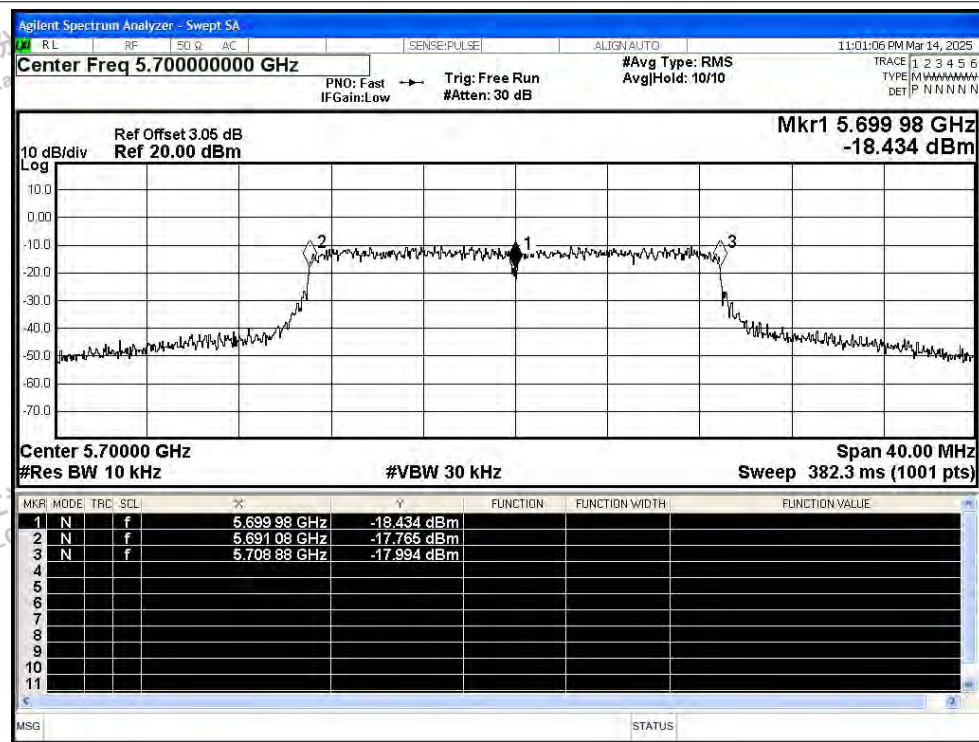
Scan code to check authenticity



Freq. Stability NVNT n20 5580MHz Ant1



Freq. Stability NVNT n20 5700MHz Ant1



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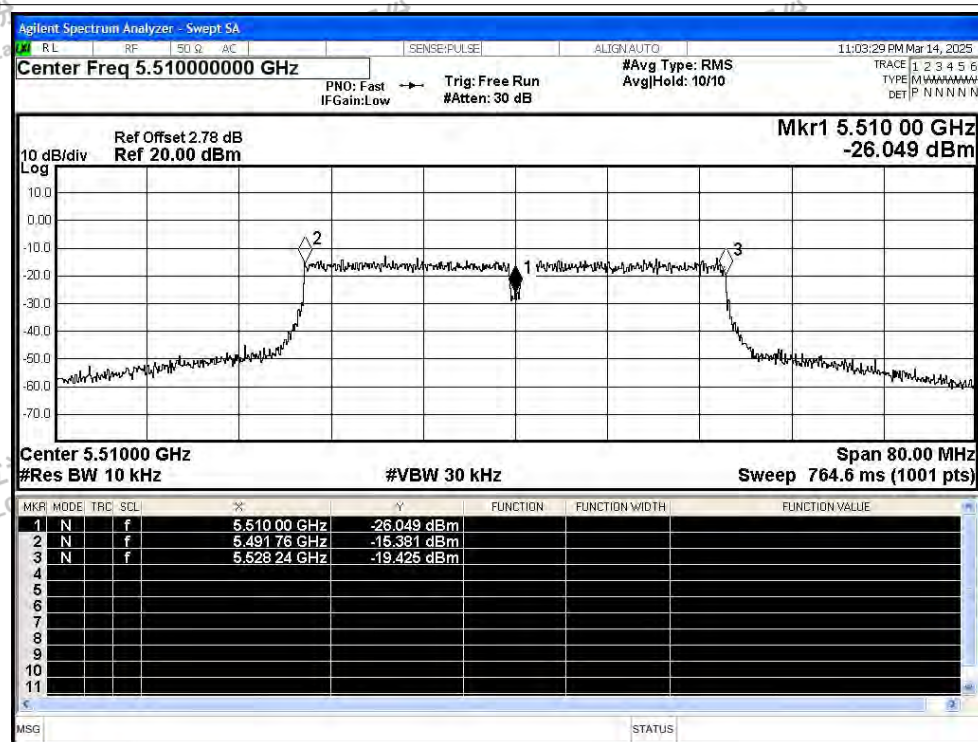
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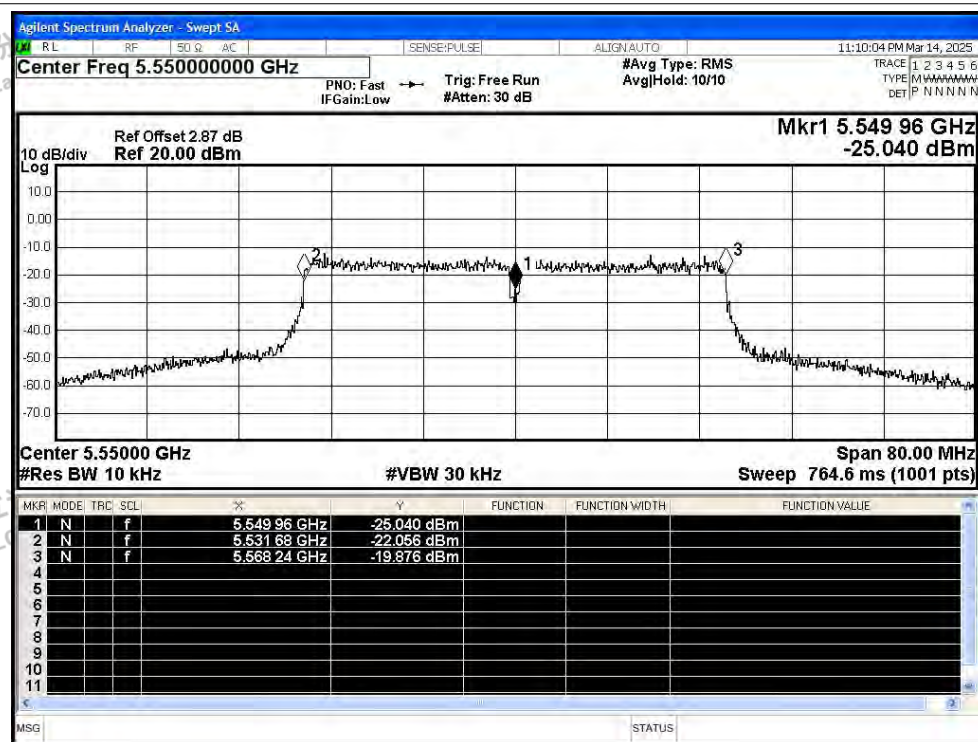
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Freq. Stability NVNT n40 5510MHz Ant1



Freq. Stability NVNT n40 5550MHz Ant1

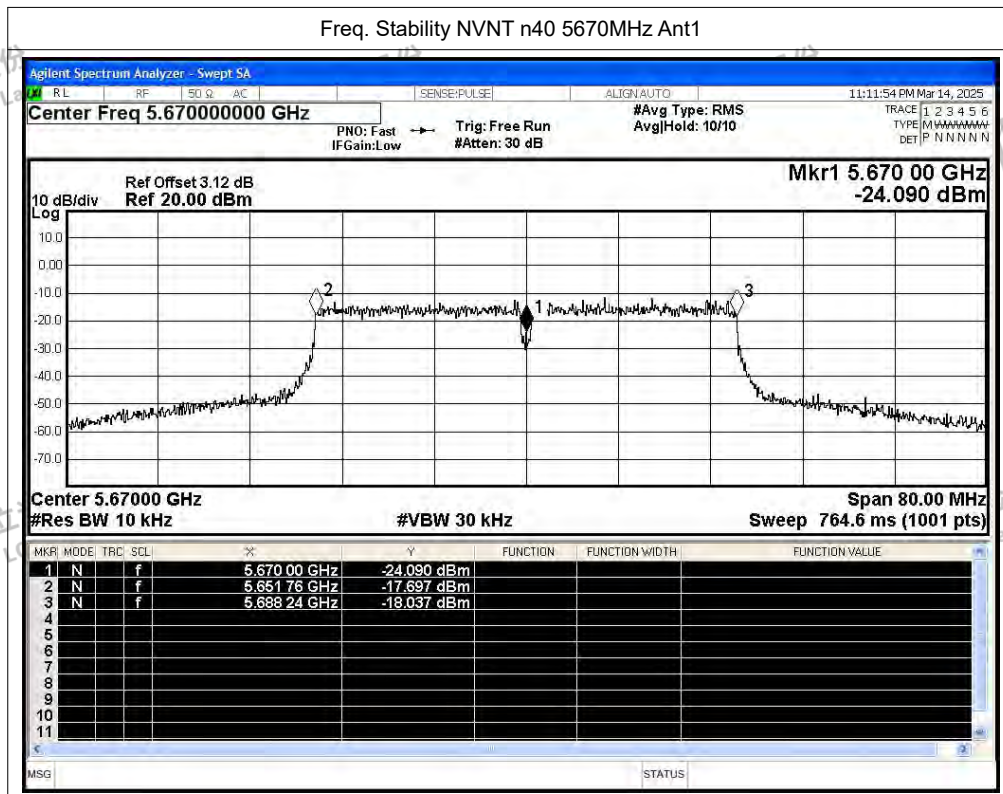


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E.6 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5500	Ant1	94.56	0.24	0.91
NVNT	a	5580	Ant1	94.56	0.24	0.91
NVNT	a	5700	Ant1	94.65	0.24	0.91
NVNT	n20	5500	Ant1	97.33	0.12	0.44
NVNT	n20	5580	Ant1	97.29	0.12	0.44
NVNT	n20	5700	Ant1	97.29	0.12	0.44
NVNT	n40	5510	Ant1	94.71	0.24	0.9
NVNT	n40	5550	Ant1	94.71	0.24	0.9
NVNT	n40	5670	Ant1	94.71	0.24	0.9

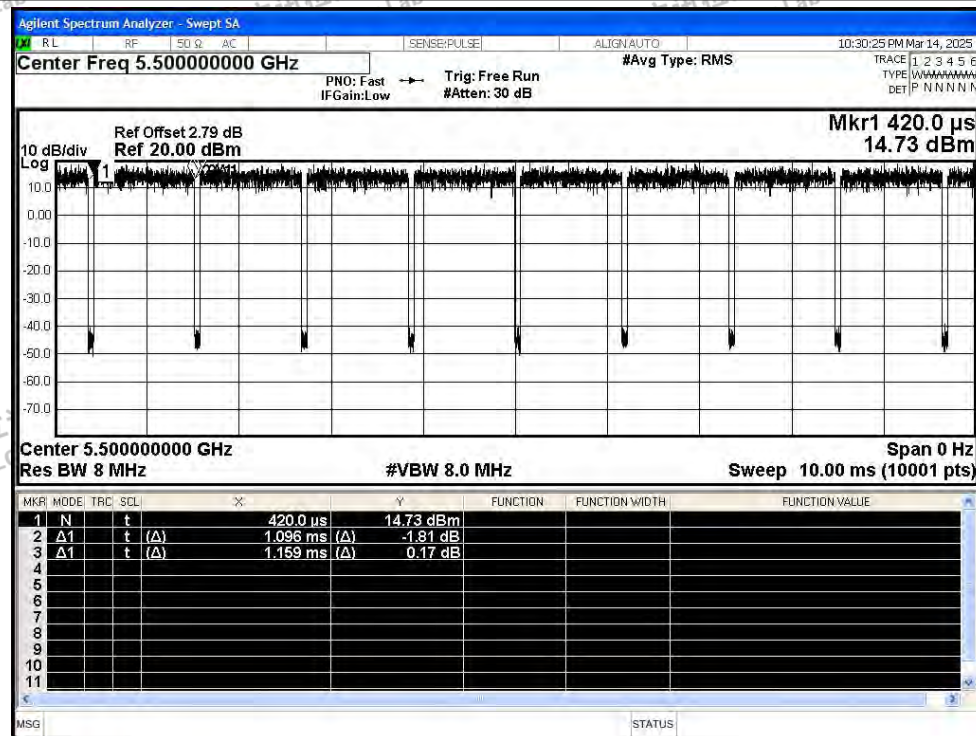


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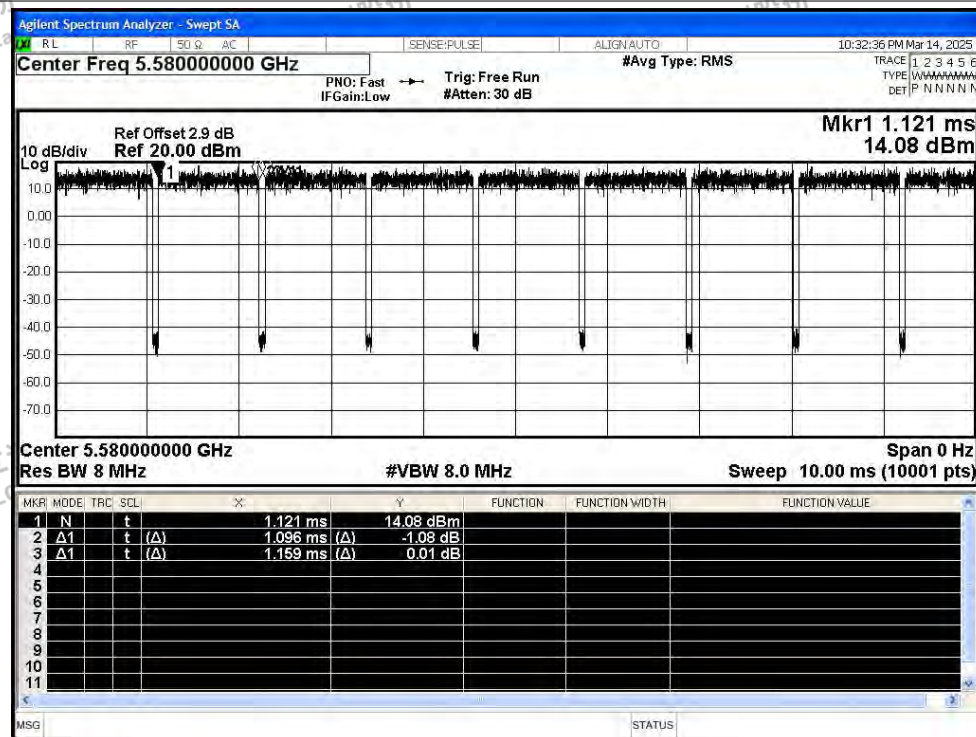


Test Graphs

Duty Cycle NVNT a 5500MHz Ant1



Duty Cycle NVNT a 5580MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

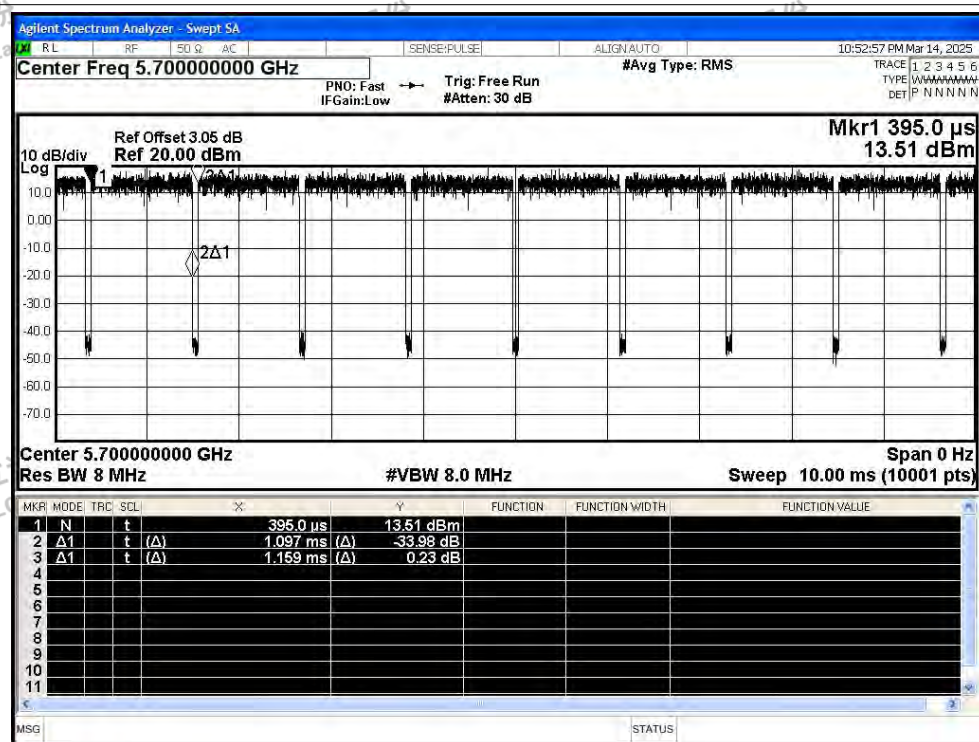
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

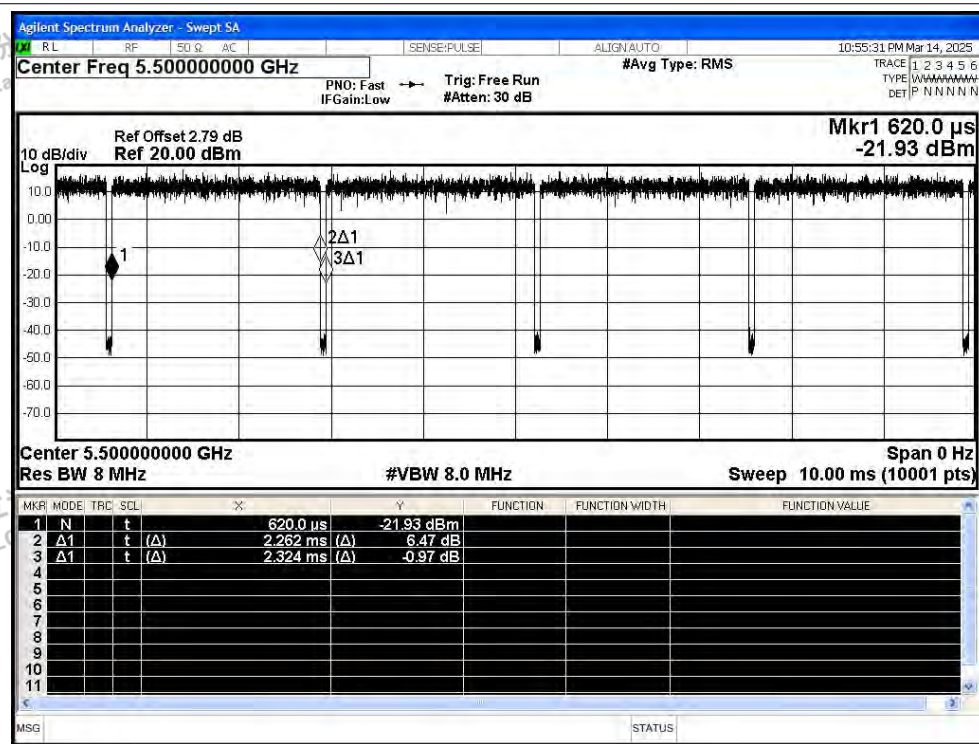
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Duty Cycle NVNT a 5700MHz Ant1



Duty Cycle NVNT n20 5500MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

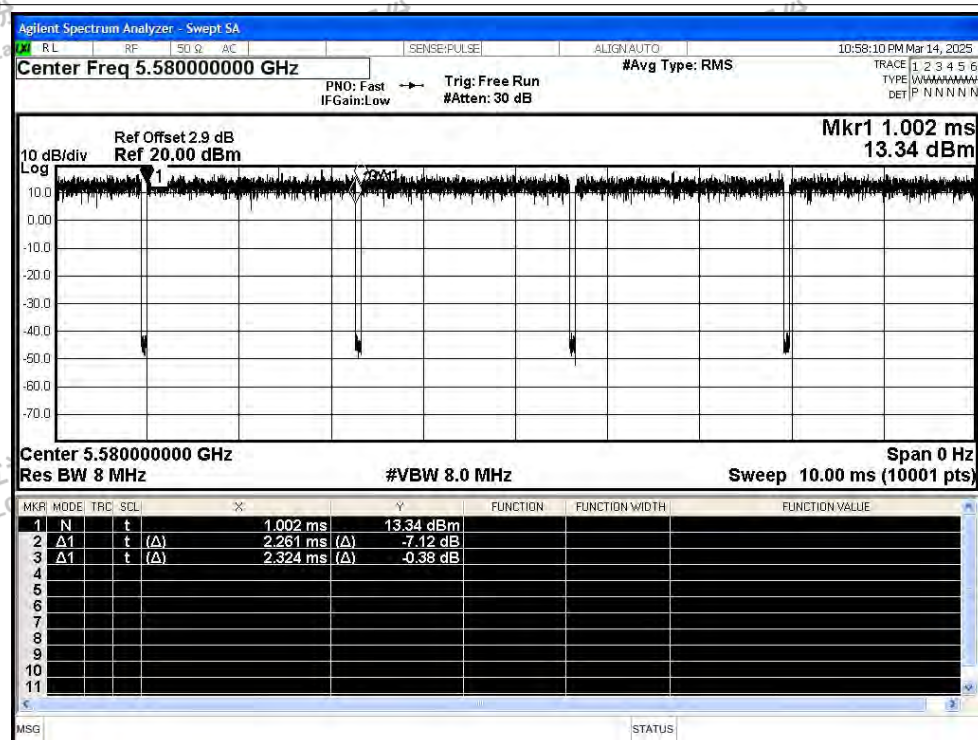
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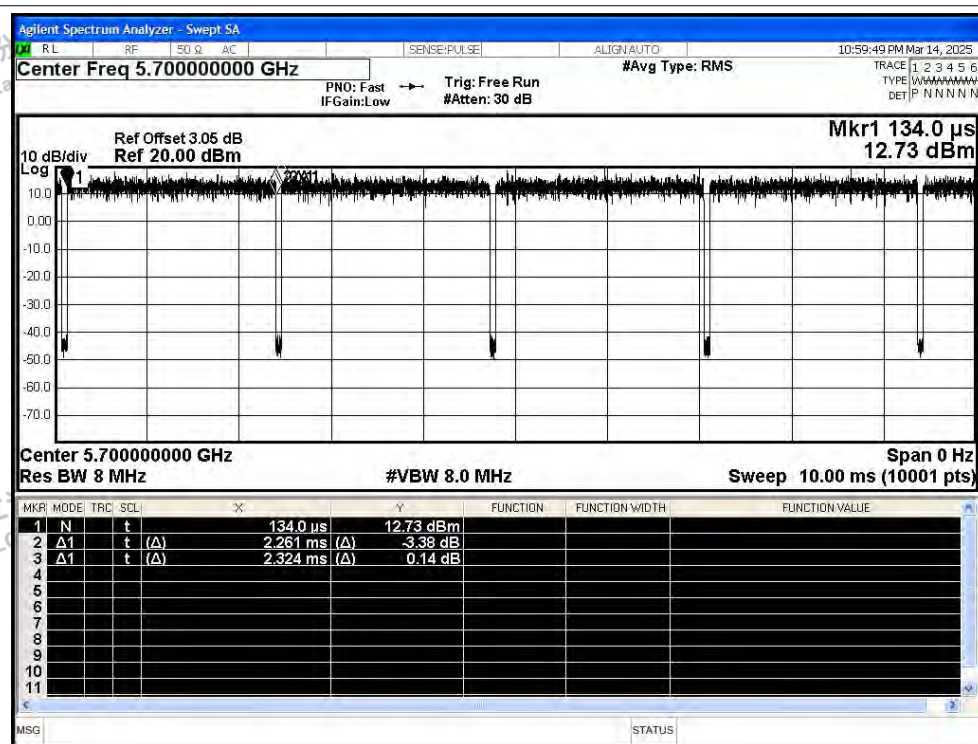
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Duty Cycle NVNT n20 5580MHz Ant1



Duty Cycle NVNT n20 5700MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

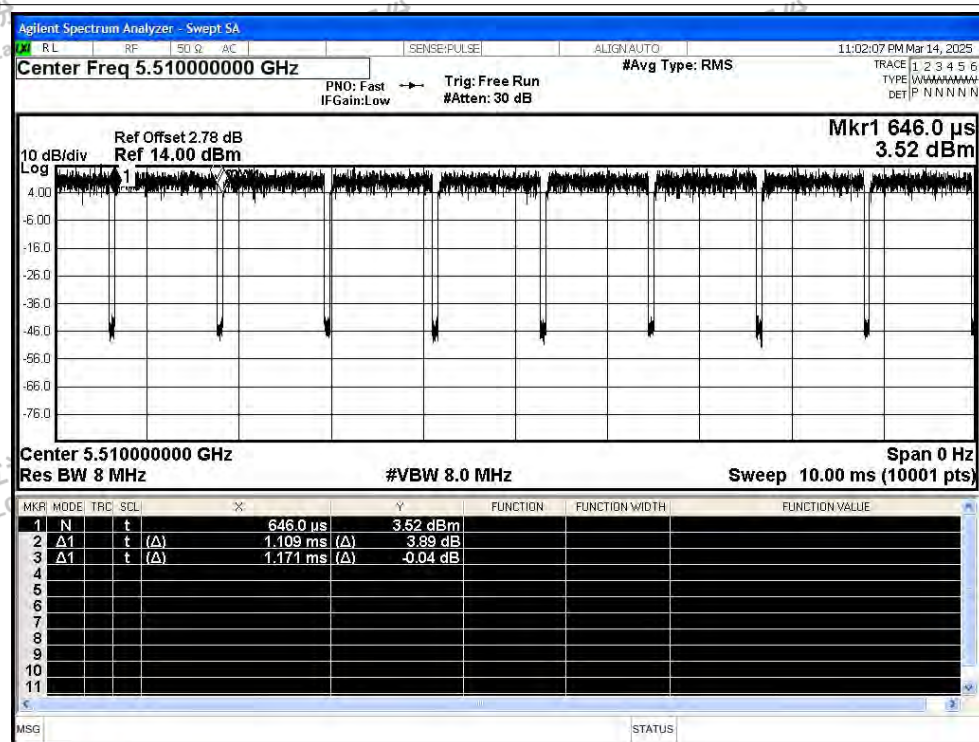
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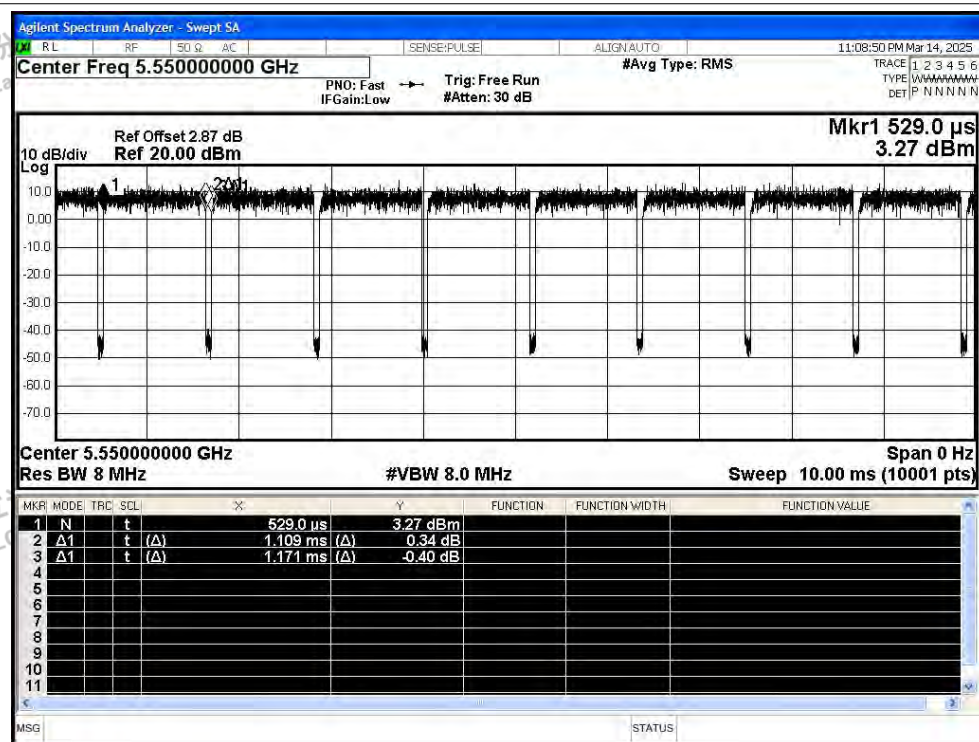
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Duty Cycle NVNT n40 5510MHz Ant1



Duty Cycle NVNT n40 5550MHz Ant1

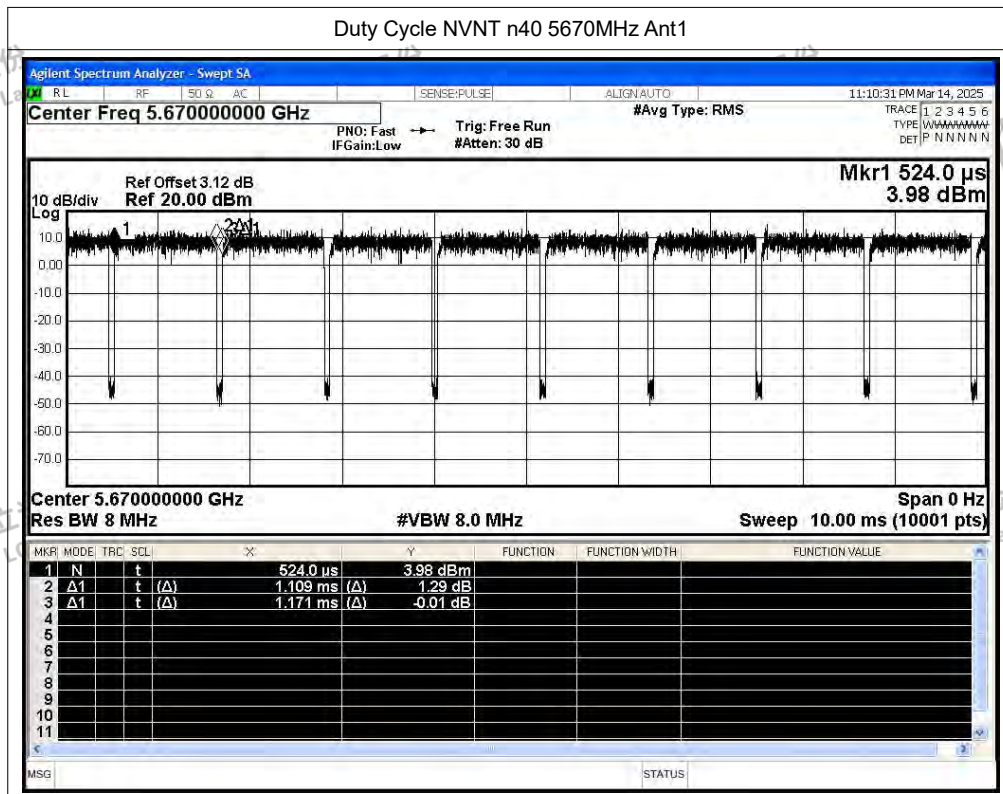


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