



Appendix E

RF Test Data for 5.5GWIFI(Conducted Measurement)

Product Name: Smart Pet Feeder

Test Model: ACF100W

Environmental Conditions

Temperature:	23.3° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Paddi Chen
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	27.231	---	Pass
NVNT	a	5580	Ant1	28.439	---	Pass
NVNT	a	5700	Ant1	25.598	---	Pass
NVNT	n20	5500	Ant1	27.864	---	Pass
NVNT	n20	5580	Ant1	28.591	---	Pass
NVNT	n20	5700	Ant1	27.419	---	Pass
NVNT	n40	5510	Ant1	40.961	---	Pass
NVNT	n40	5550	Ant1	45.233	---	Pass
NVNT	n40	5670	Ant1	42.624	---	Pass

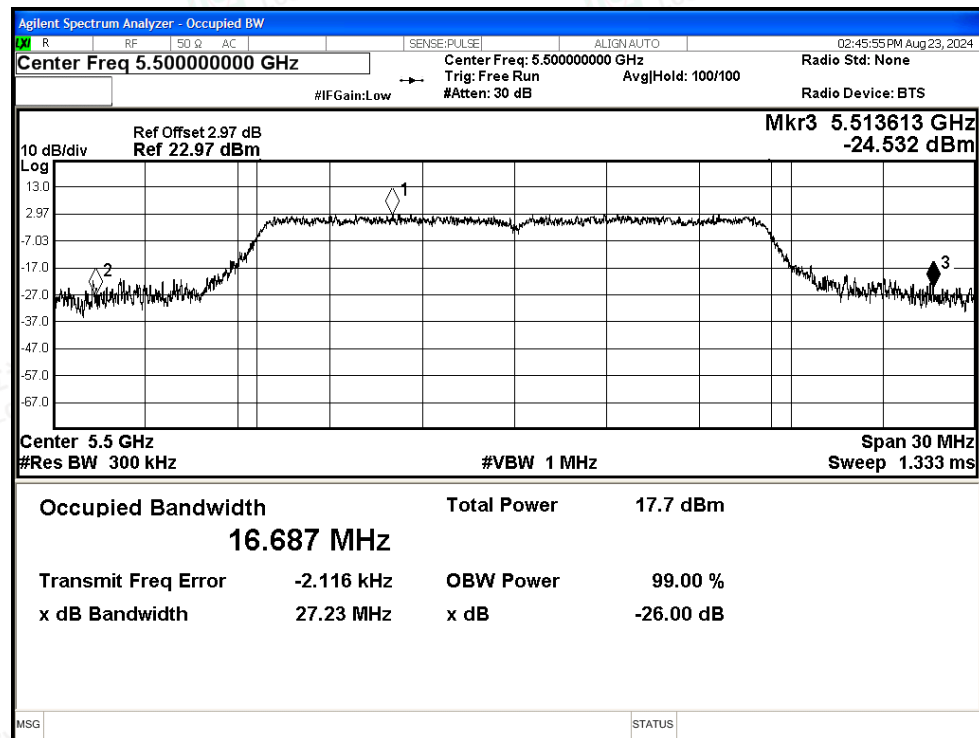


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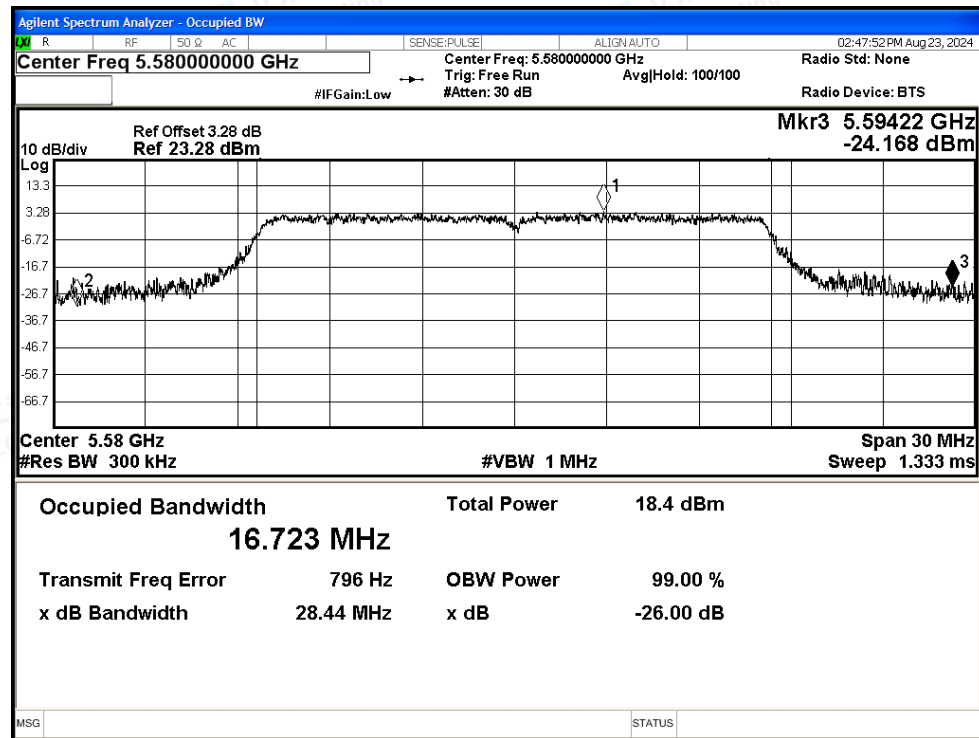


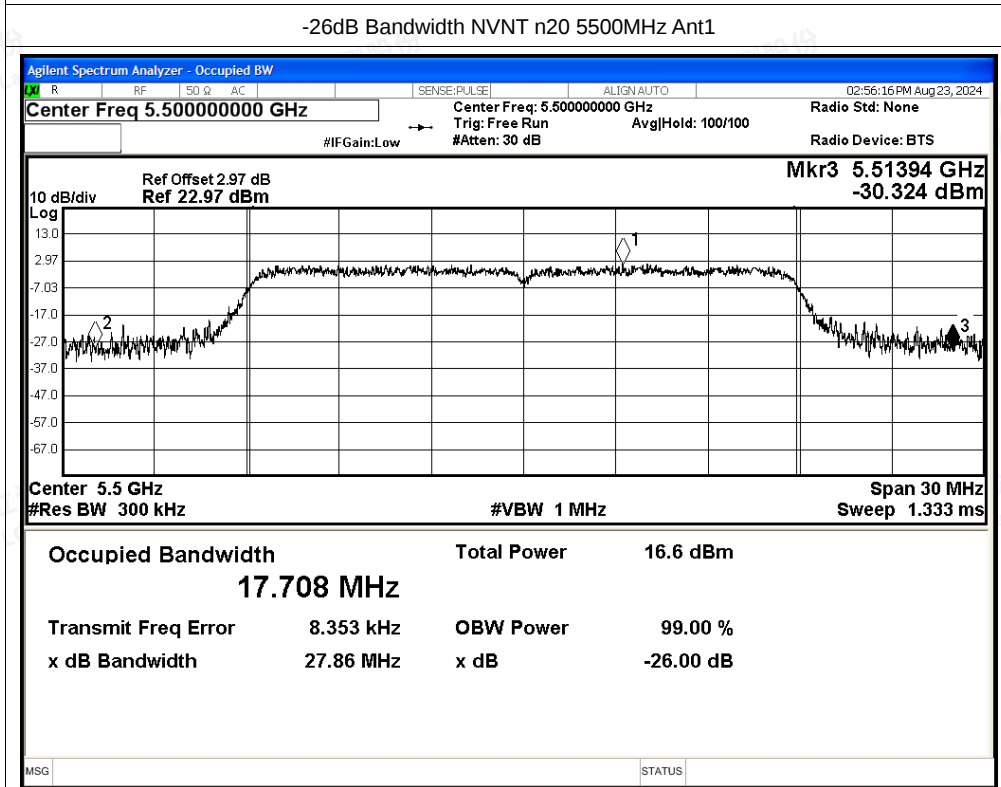
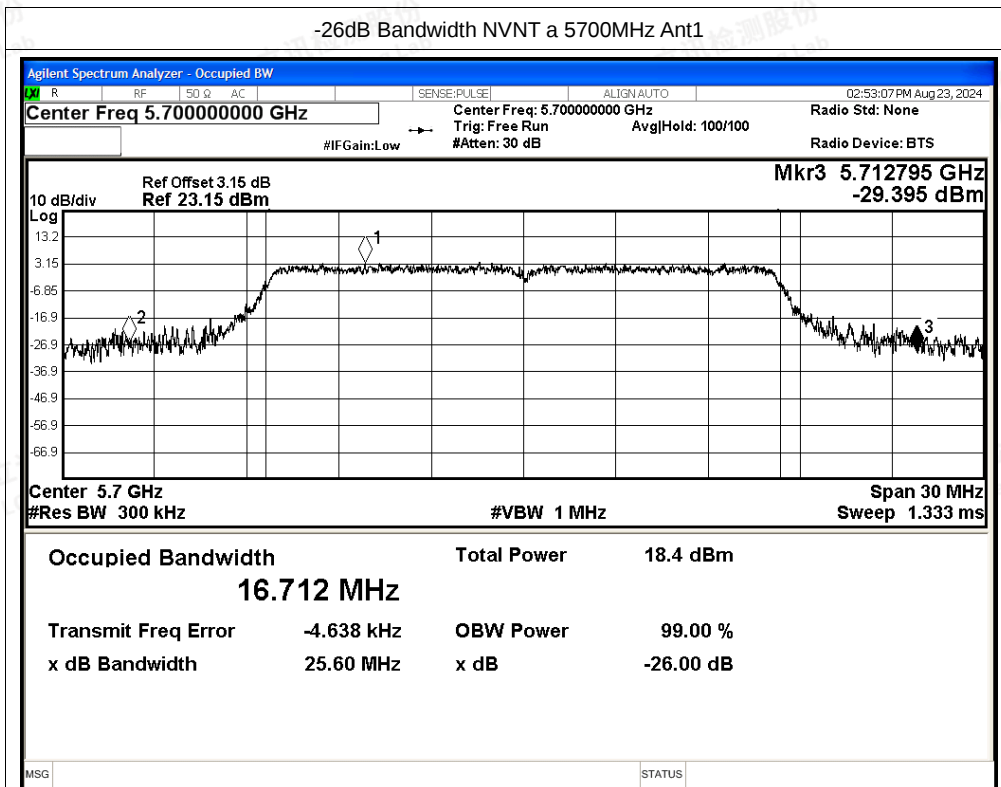
Test Graphs

-26dB Bandwidth NVNT a 5500MHz Ant1



-26dB Bandwidth NVNT a 5580MHz Ant1





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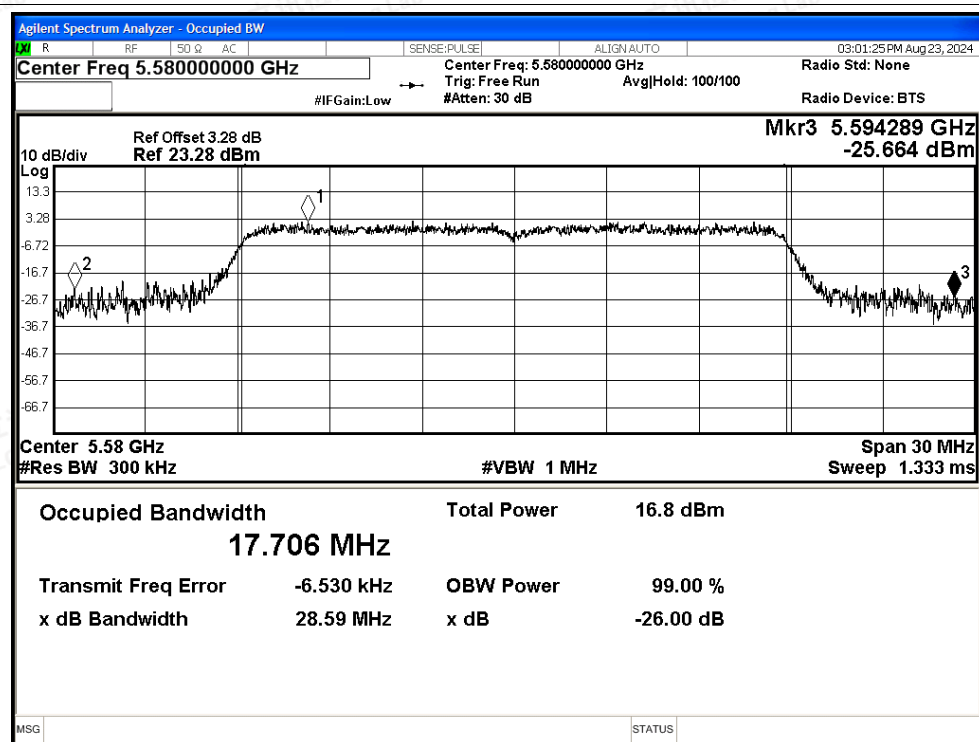
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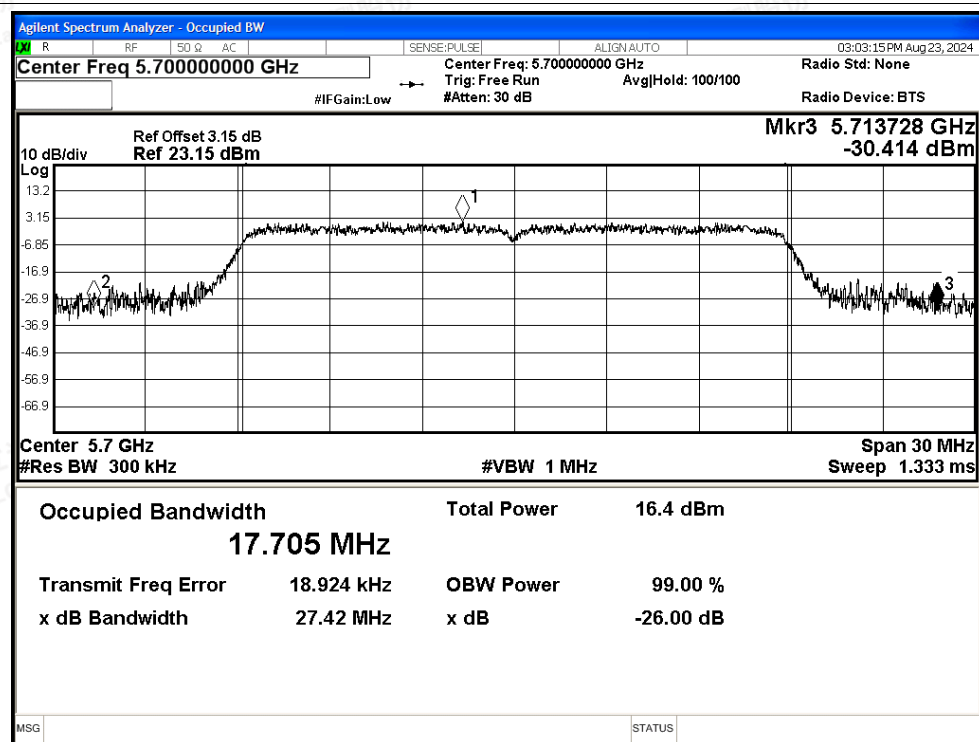
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-26dB Bandwidth NVNT n20 5580MHz Ant1

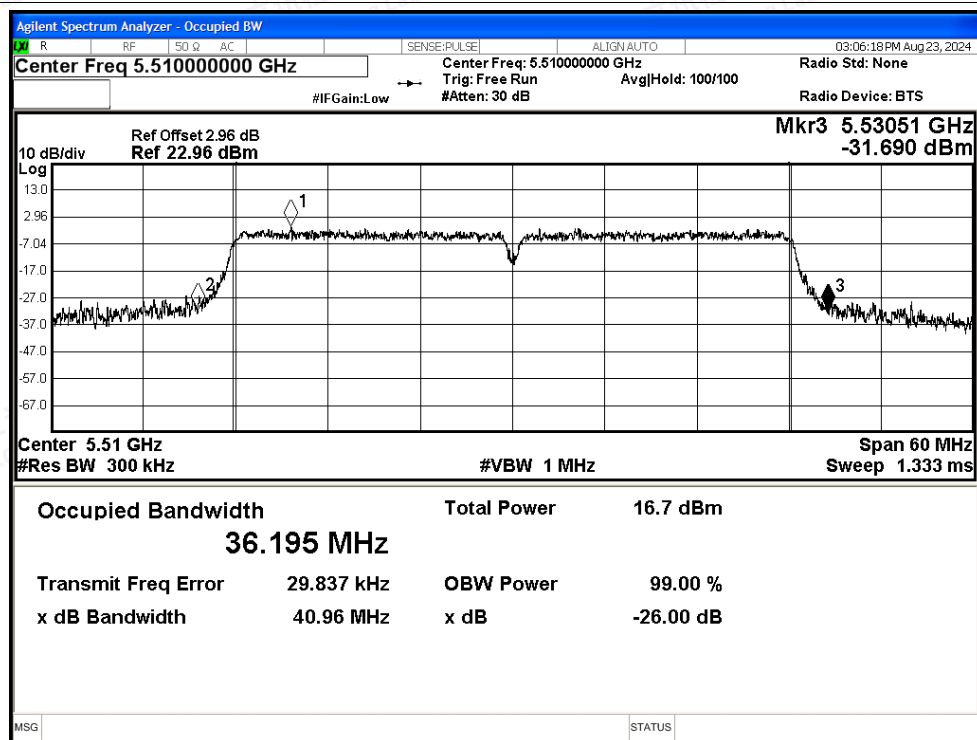


-26dB Bandwidth NVNT n20 5700MHz Ant1

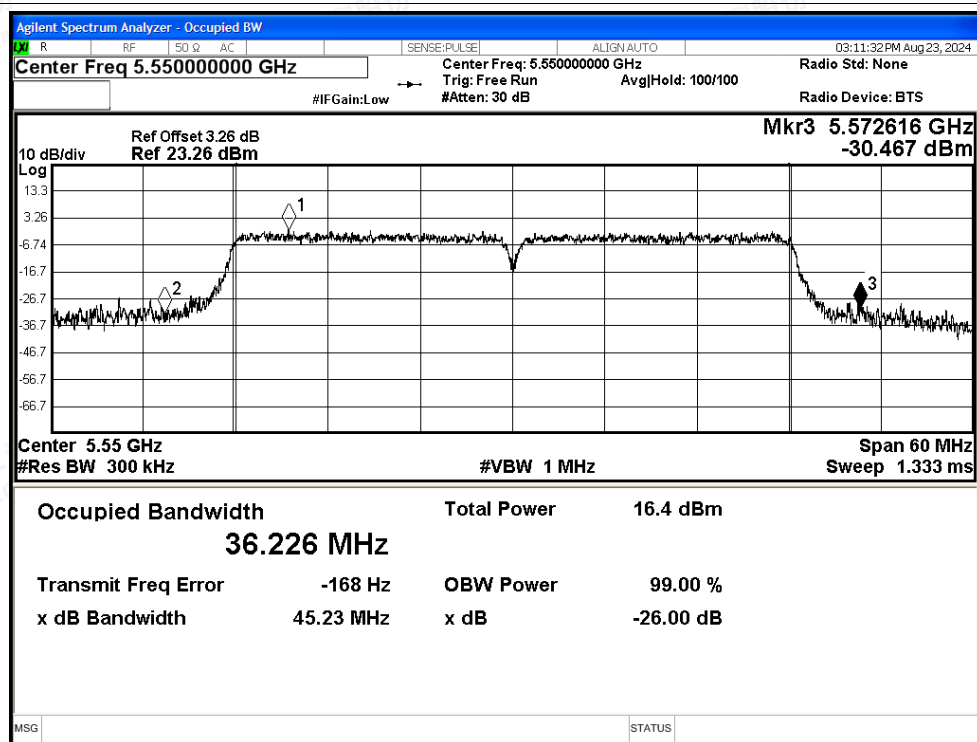




-26dB Bandwidth NVNT n40 5510MHz Ant1



-26dB Bandwidth NVNT n40 5550MHz Ant1

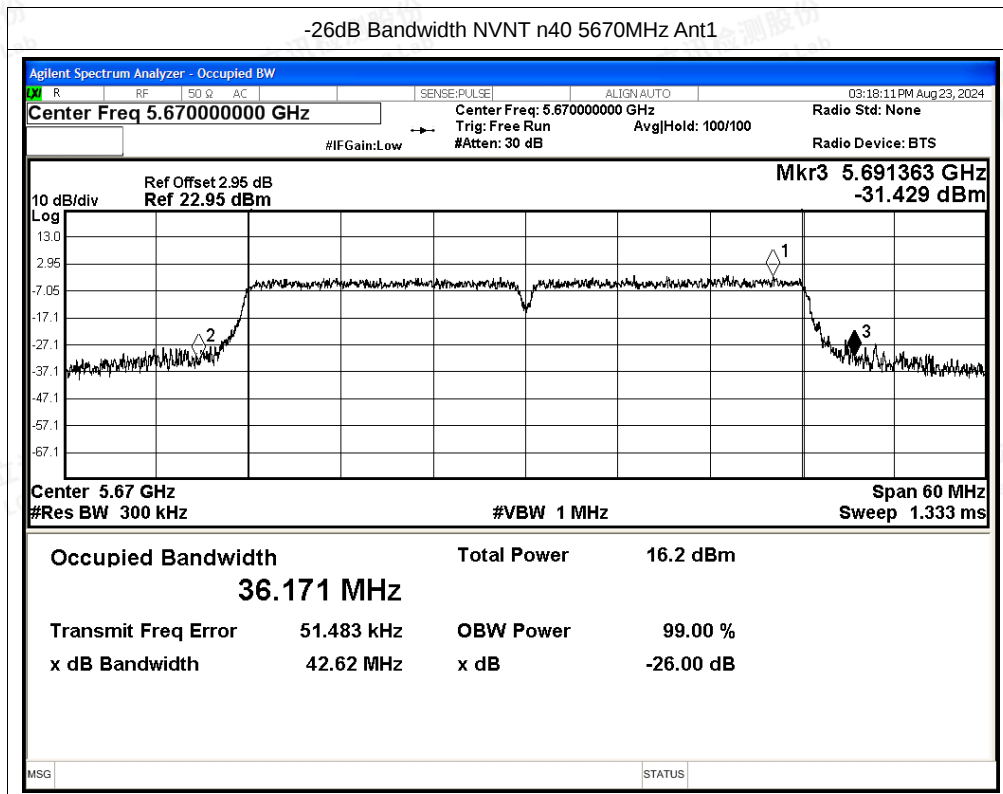


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E.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5500	Ant1	12	0.24	12.24	24	Pass
NVNT	a	5580	Ant1	12.77	0.24	13.01	24	Pass
NVNT	a	5700	Ant1	12.65	0.24	12.89	24	Pass
NVNT	n20	5500	Ant1	11.35	0.28	11.63	24	Pass
NVNT	n20	5580	Ant1	11.09	0.28	11.37	24	Pass
NVNT	n20	5700	Ant1	11.05	0.28	11.33	24	Pass
NVNT	n40	5510	Ant1	10.64	0.44	11.08	24	Pass
NVNT	n40	5550	Ant1	10.3	0.45	10.75	24	Pass
NVNT	n40	5670	Ant1	10.49	0.44	10.93	24	Pass





E.3 Maximum Power Spectral Density Level

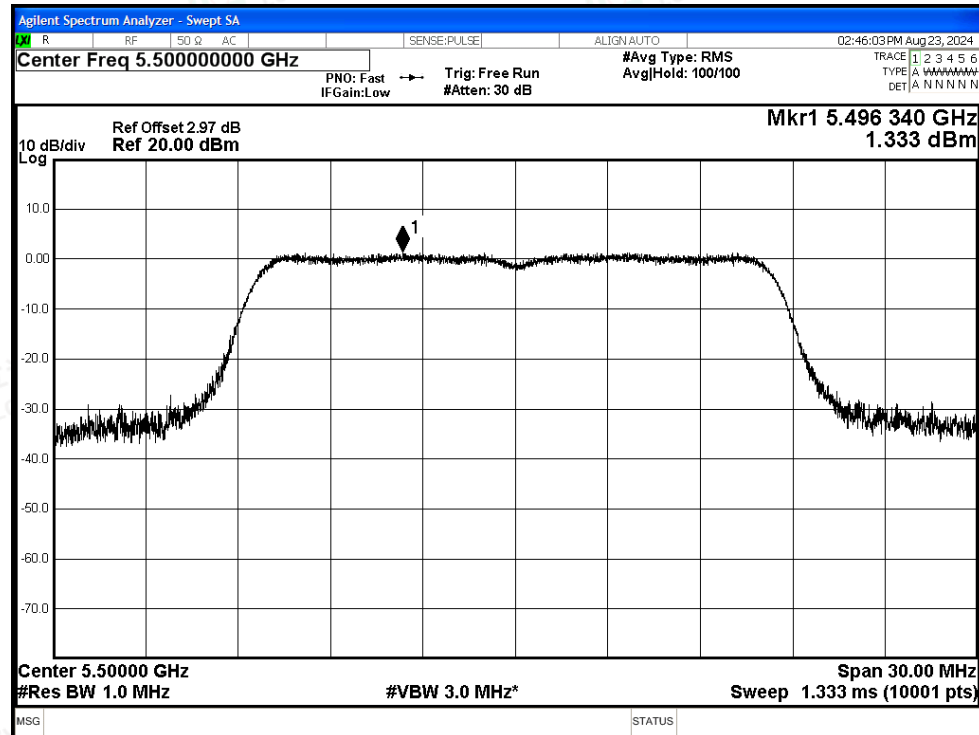
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/MHz)	Duty Factor (dB)	Total PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	a	5500	Ant1	1.33	0.24	1.57	11	Pass
NVNT	a	5580	Ant1	2.29	0.24	2.53	11	Pass
NVNT	a	5700	Ant1	2.12	0.24	2.36	11	Pass
NVNT	n20	5500	Ant1	0.06	0.28	0.34	11	Pass
NVNT	n20	5580	Ant1	0.23	0.28	0.51	11	Pass
NVNT	n20	5700	Ant1	-0.09	0.28	0.19	11	Pass
NVNT	n40	5510	Ant1	-2.8	0.44	-2.36	11	Pass
NVNT	n40	5550	Ant1	-3.24	0.45	-2.79	11	Pass
NVNT	n40	5670	Ant1	-3.24	0.44	-2.80	11	Pass



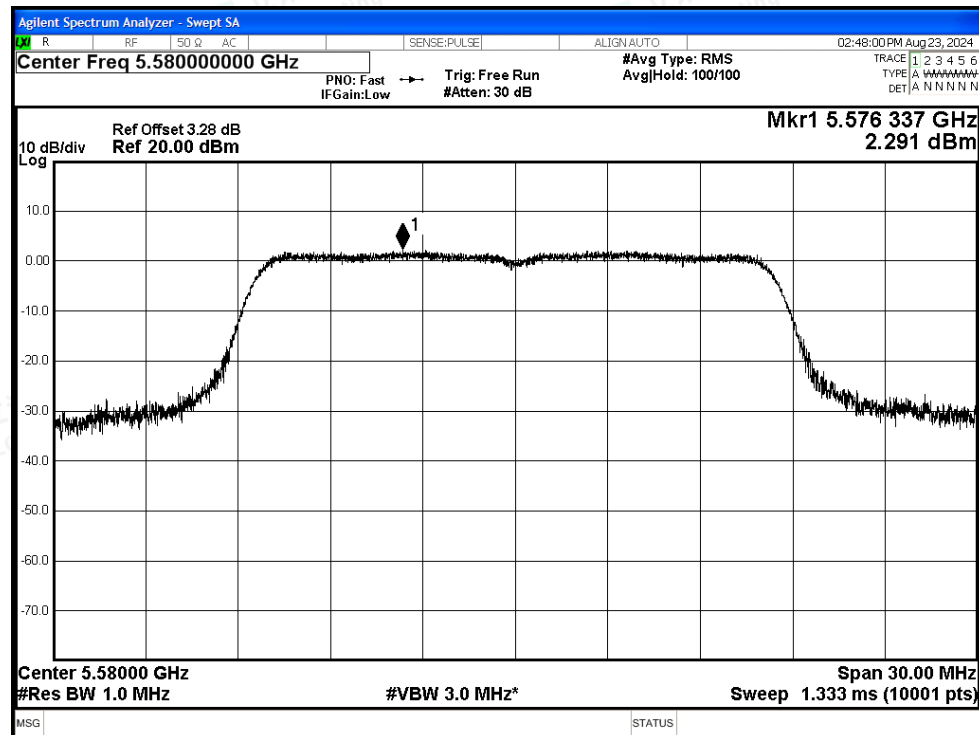


Test Graphs

PSD NVNT a 5500MHz Ant1

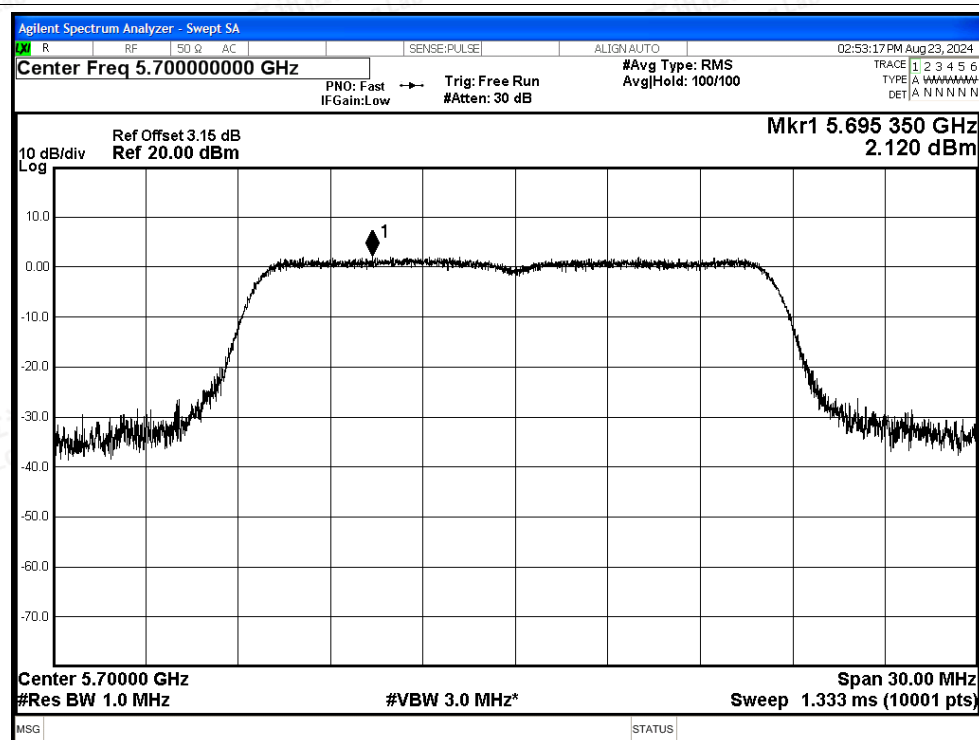


PSD NVNT a 5580MHz Ant1

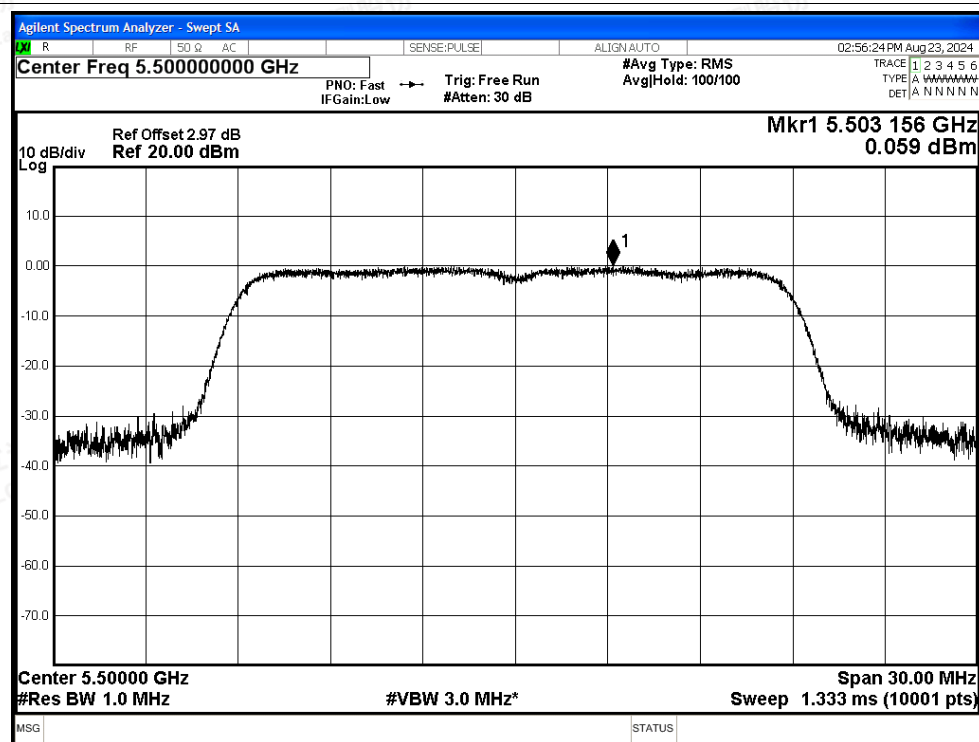


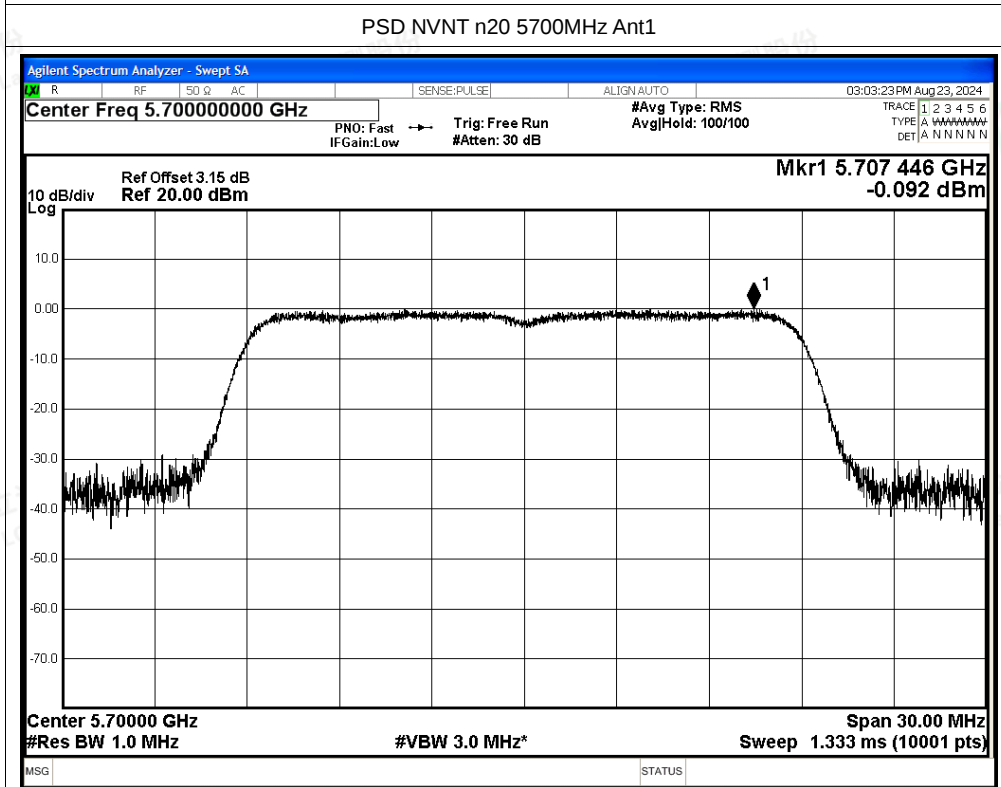
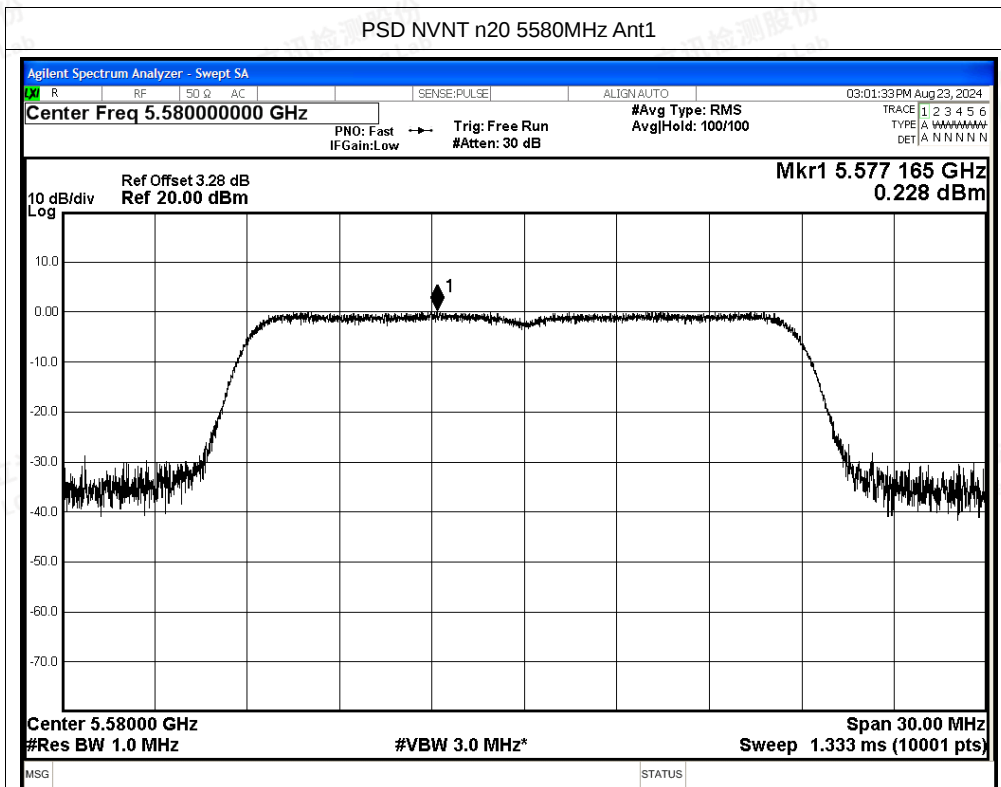


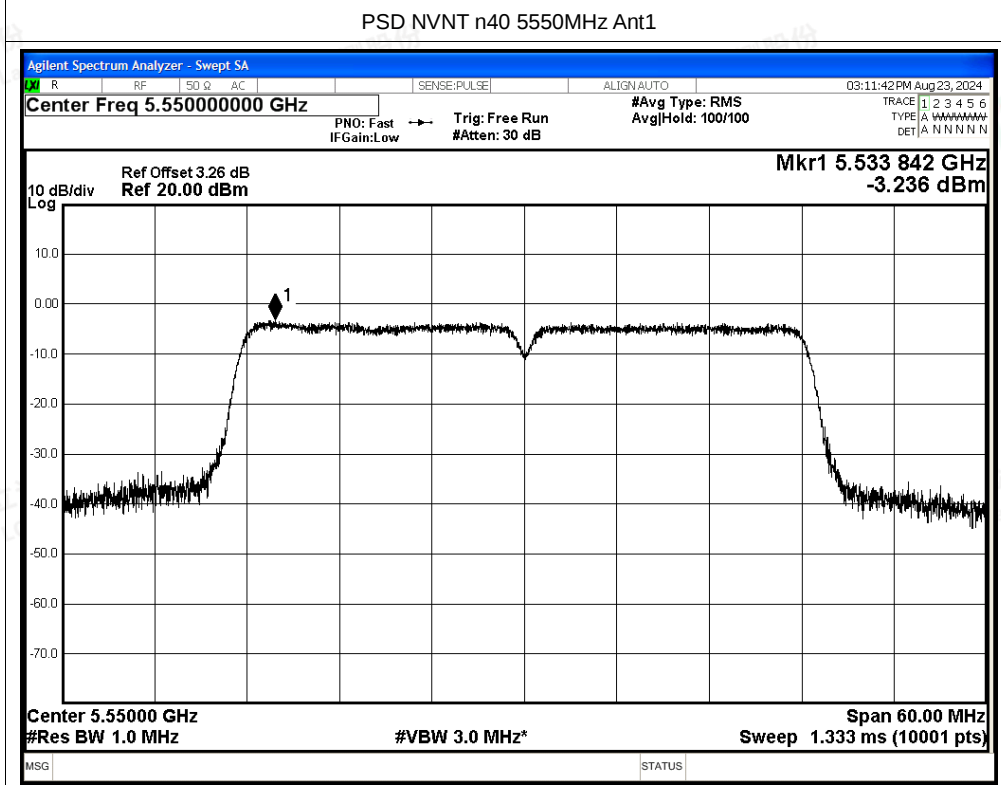
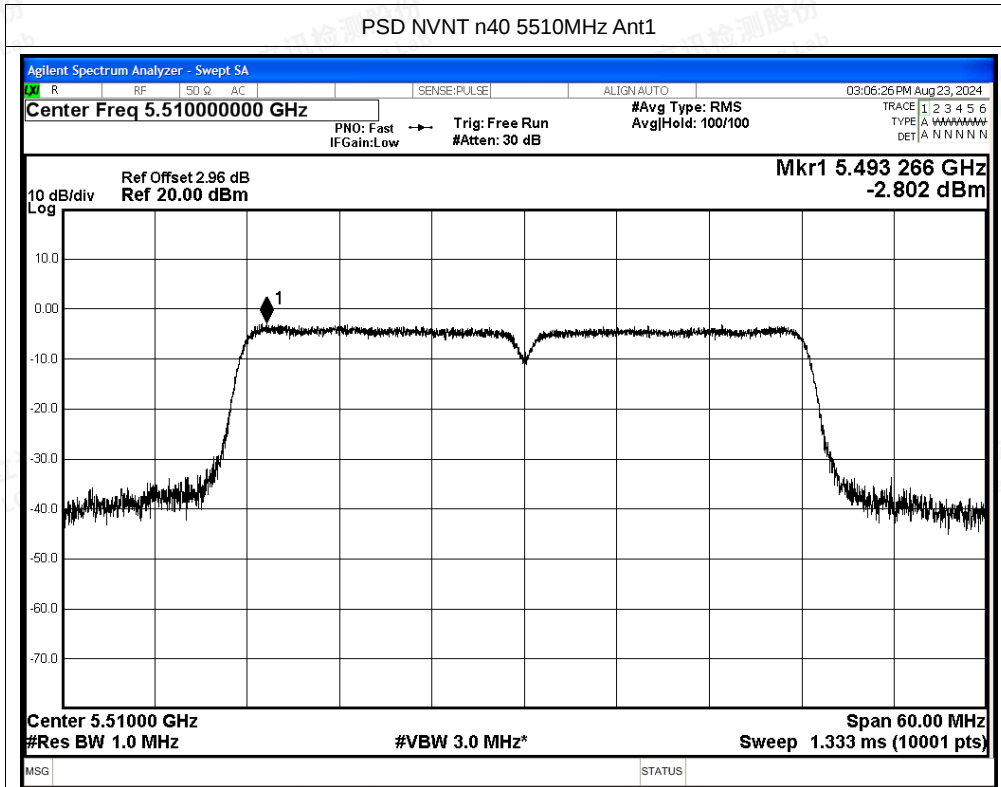
PSD NVNT a 5700MHz Ant1

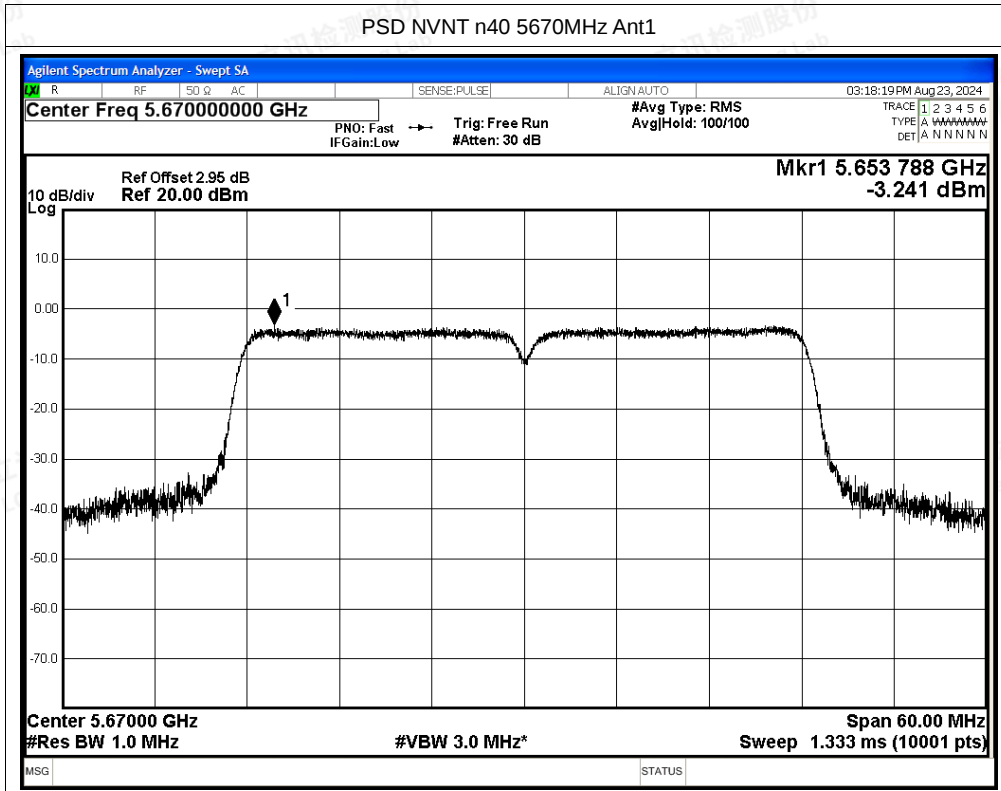


PSD NVNT n20 5500MHz Ant1











E.4 Restrict Band

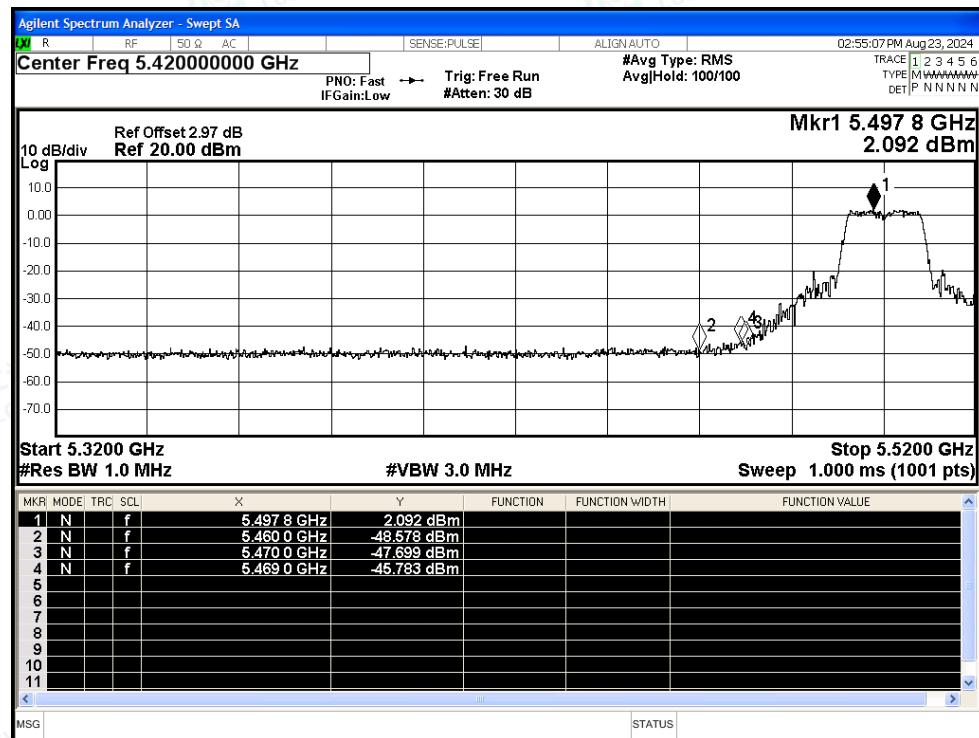
Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	a	5500	Ant1	5460	-48.58	4.05	-	50.70	Peak	68.2	Pass
NVNT	a	5500	Ant1	5460	-57.73	4.05	0.24	41.79	Average	54	Pass
NVNT	a	5500	Ant1	5469	-45.78	4.05	-	53.50	Peak	68.2	Pass
NVNT	a	5500	Ant1	5467	-55.87	4.05	0.24	43.65	Average	54	Pass
NVNT	a	5500	Ant1	5470	-47.7	4.05	-	51.58	Peak	68.2	Pass
NVNT	a	5500	Ant1	5470	-55.99	4.05	0.24	43.53	Average	54	Pass
NVNT	a	5700	Ant1	5725	-35.08	4.05	-	64.20	Peak	68.2	Pass
NVNT	a	5700	Ant1	5725	-50.13	4.05	0.24	49.39	Average	54	Pass
NVNT	a	5700	Ant1	5725.6	-32.96	4.05	-	66.32	Peak	68.2	Pass
NVNT	a	5700	Ant1	5725.6	-49.84	4.05	0.24	49.68	Average	54	Pass
NVNT	a	5700	Ant1	5735	-44.86	4.05	-	54.42	Peak	68.2	Pass
NVNT	a	5700	Ant1	5735	-56.08	4.05	0.24	43.44	Average	54	Pass
NVNT	n20	5500	Ant1	5460	-48.39	4.05	-	50.89	Peak	68.2	Pass
NVNT	n20	5500	Ant1	5460	-57.2	4.05	0.28	42.36	Average	54	Pass
NVNT	n20	5500	Ant1	5469.4	-38.49	4.05	-	60.79	Peak	68.2	Pass
NVNT	n20	5500	Ant1	5469.8	-53.28	4.05	0.28	46.28	Average	54	Pass
NVNT	n20	5500	Ant1	5470	-42.8	4.05	-	56.48	Peak	68.2	Pass
NVNT	n20	5500	Ant1	5470	-53.66	4.05	0.28	45.90	Average	54	Pass
NVNT	n20	5700	Ant1	5725	-32.56	4.05	-	66.72	Peak	68.2	Pass
NVNT	n20	5700	Ant1	5725	-44.1	4.05	0.28	55.46	Average	54	Pass
NVNT	n20	5700	Ant1	5725.2	-31.3	4.05	-	67.98	Peak	68.2	Pass
NVNT	n20	5700	Ant1	5735	-42.08	4.05	-	57.20	Peak	68.2	Pass
NVNT	n20	5700	Ant1	5735	-54.11	4.05	0.28	45.45	Average	54	Pass
NVNT	n40	5510	Ant1	5460	-48.45	4.05	-	50.83	Peak	68.2	Pass
NVNT	n40	5510	Ant1	5460	-56.04	4.05	0.44	43.68	Average	54	Pass
NVNT	n40	5510	Ant1	5468.8	-37.23	4.05	-	62.05	Peak	68.2	Pass
NVNT	n40	5510	Ant1	5470	-52.65	4.05	0.44	47.07	Average	54	Pass
NVNT	n40	5510	Ant1	5470	-39.16	4.05	-	60.12	Peak	68.2	Pass
NVNT	n40	5670	Ant1	5725	-47.55	4.05	-	51.73	Peak	68.2	Pass
NVNT	n40	5670	Ant1	5725	-55.11	4.05	0.44	44.61	Average	54	Pass
NVNT	n40	5670	Ant1	5728	-43.05	4.05	-	56.23	Peak	68.2	Pass
NVNT	n40	5670	Ant1	5725.6	-54.93	4.05	0.44	44.79	Average	54	Pass
NVNT	n40	5670	Ant1	5735	-48.98	4.05	-	50.30	Peak	68.2	Pass
NVNT	n40	5670	Ant1	5735	-56.57	4.05	0.44	43.15	Average	54	Pass



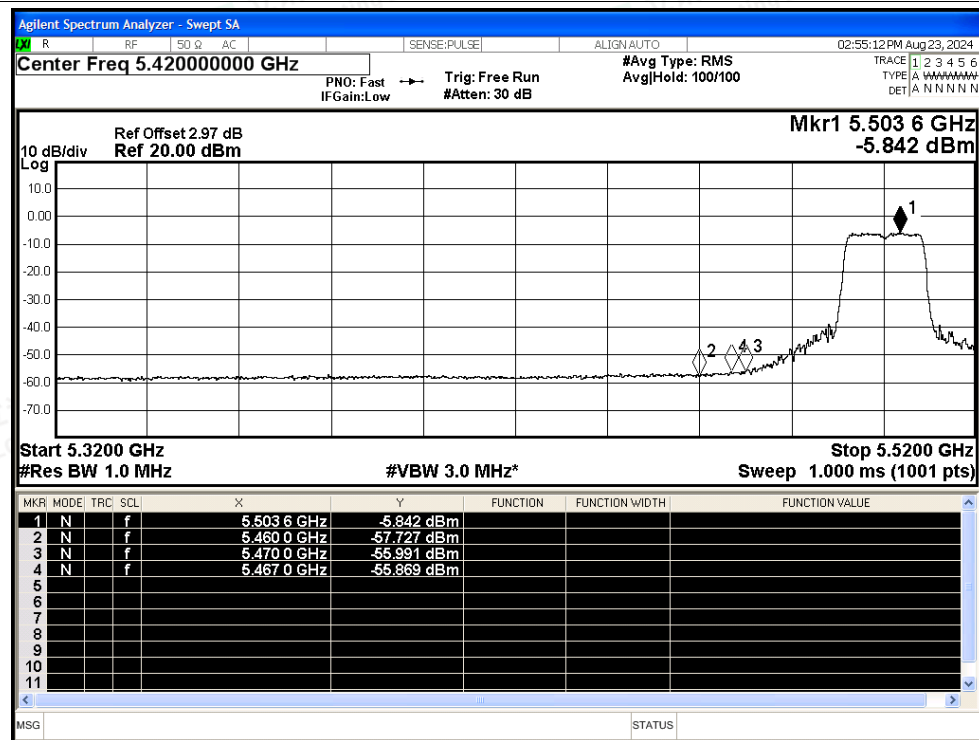


Test Graphs

Restrict Band NVNT a 5500MHz Ant1 Peak



Restrict Band NVNT a 5500MHz Ant1 Average



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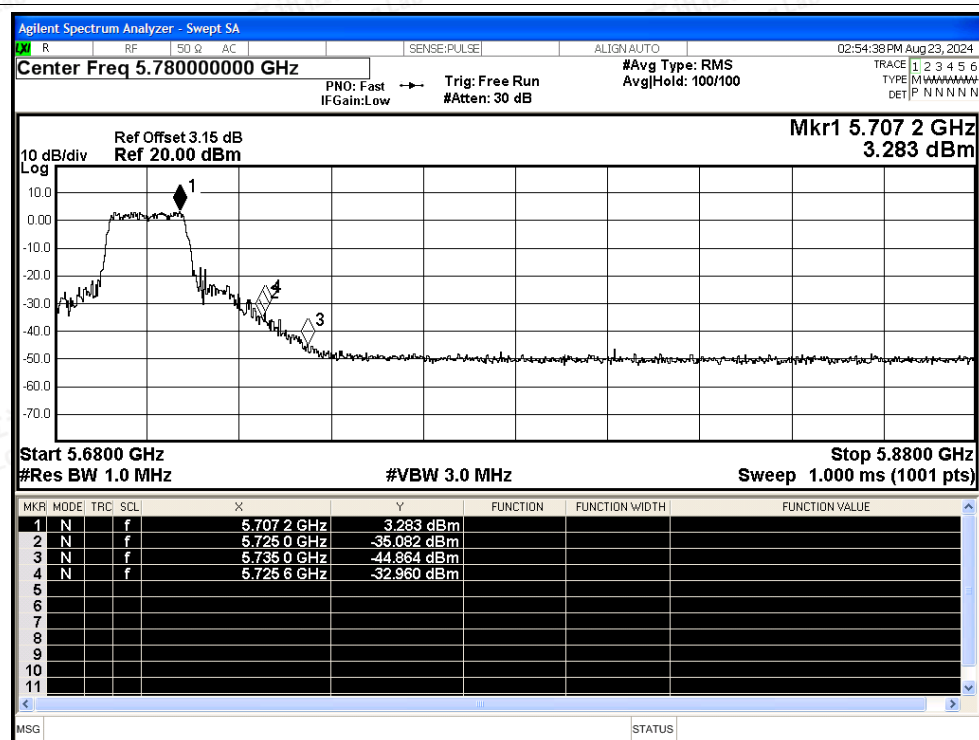
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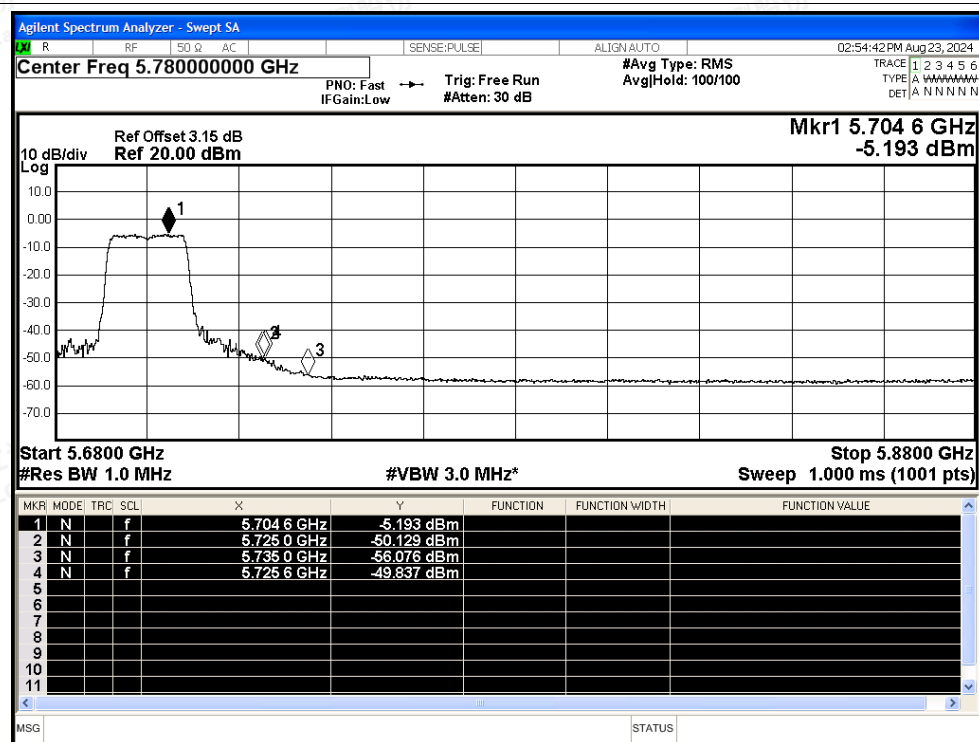
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Restrict Band NVNT a 5700MHz Ant1 Peak



Restrict Band NVNT a 5700MHz Ant1 Average



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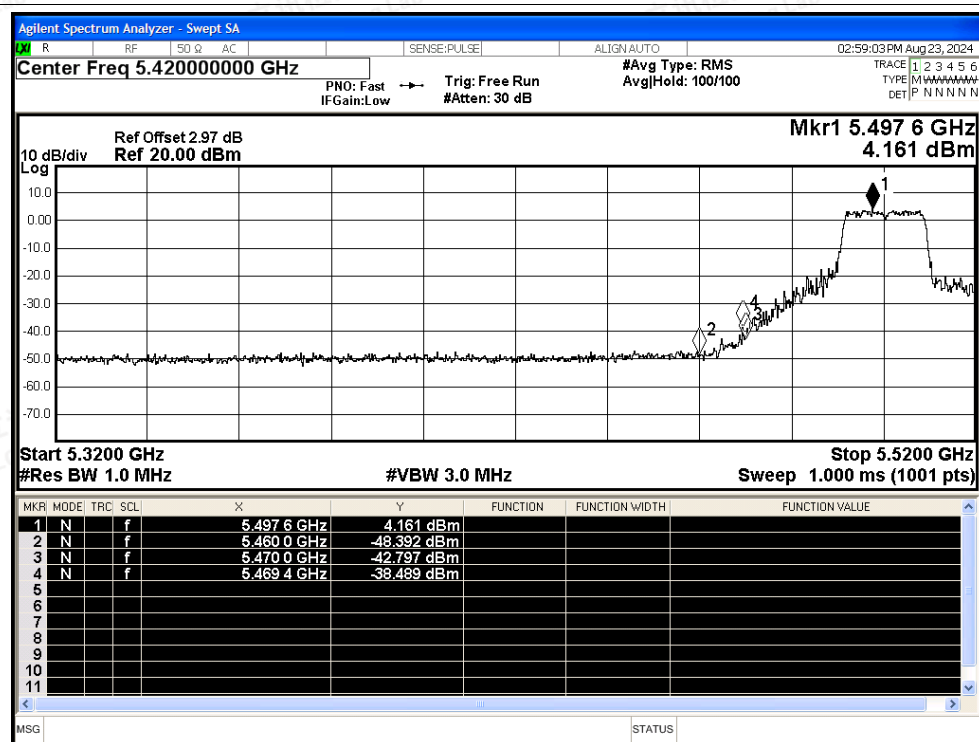
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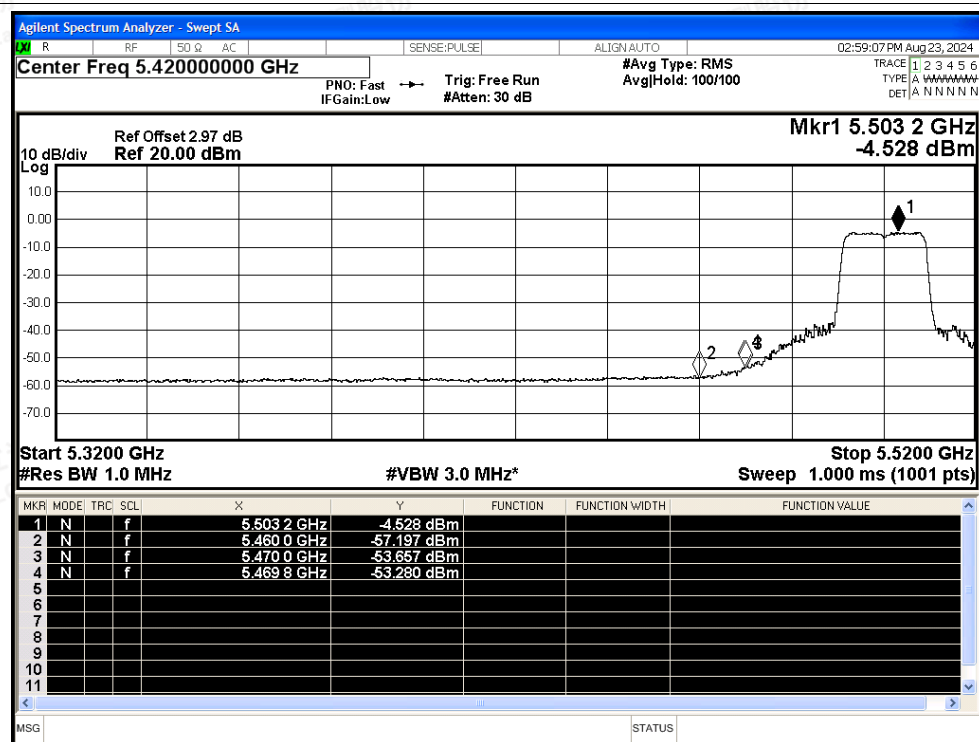
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Restrict Band NVNT n20 5500MHz Ant1 Peak



Restrict Band NVNT n20 5500MHz Ant1 Average



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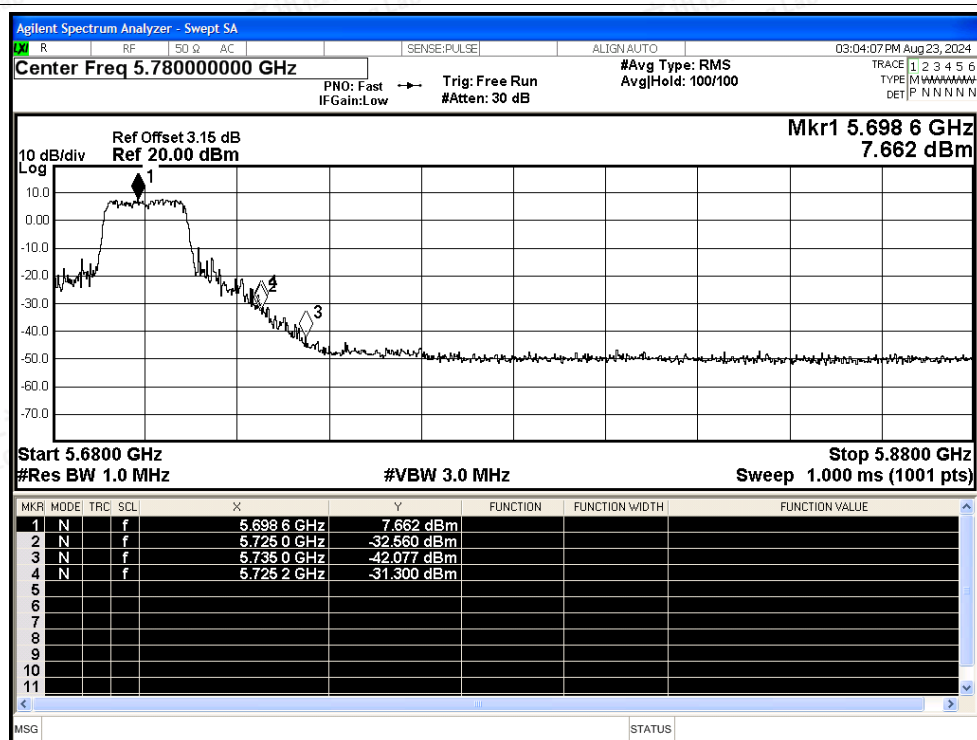
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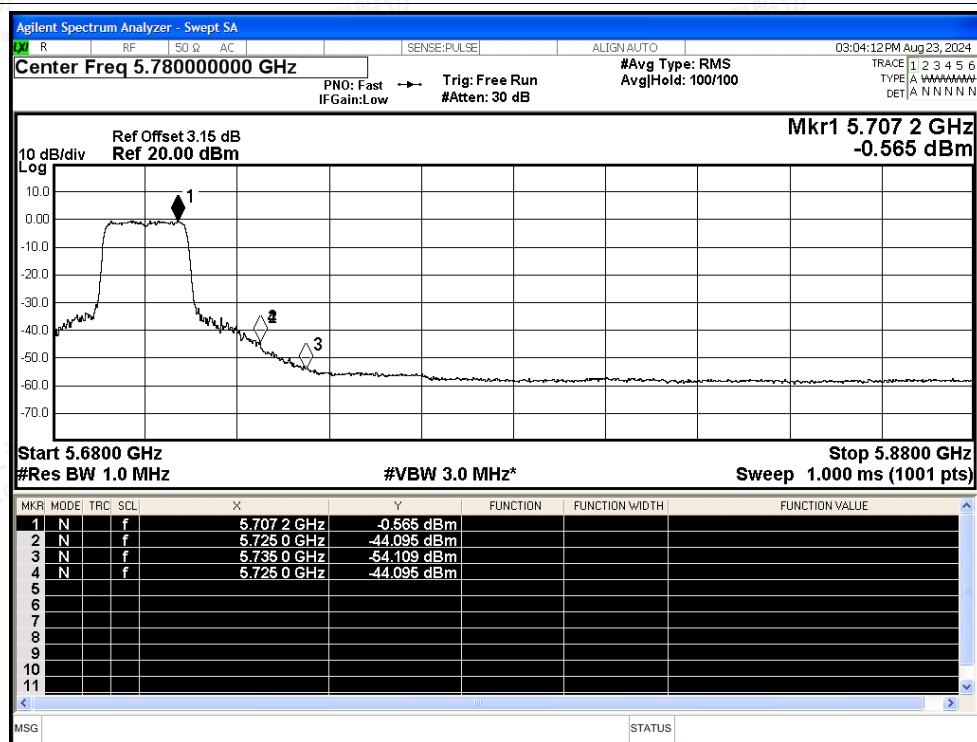
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Restrict Band NVNT n20 5700MHz Ant1 Peak



Restrict Band NVNT n20 5700MHz Ant1 Average



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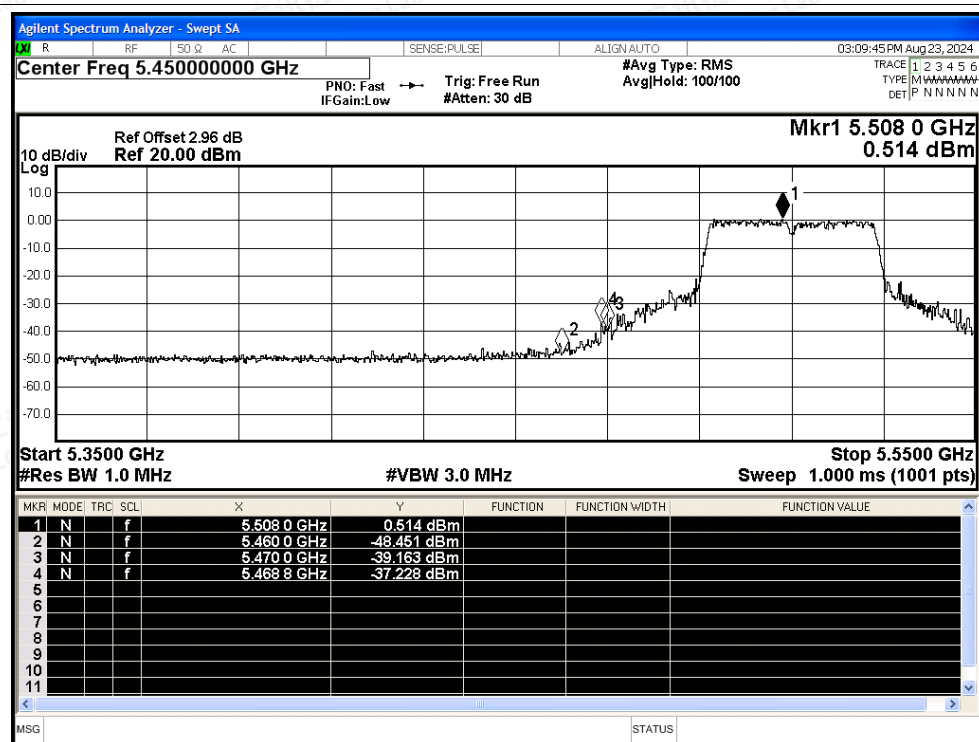
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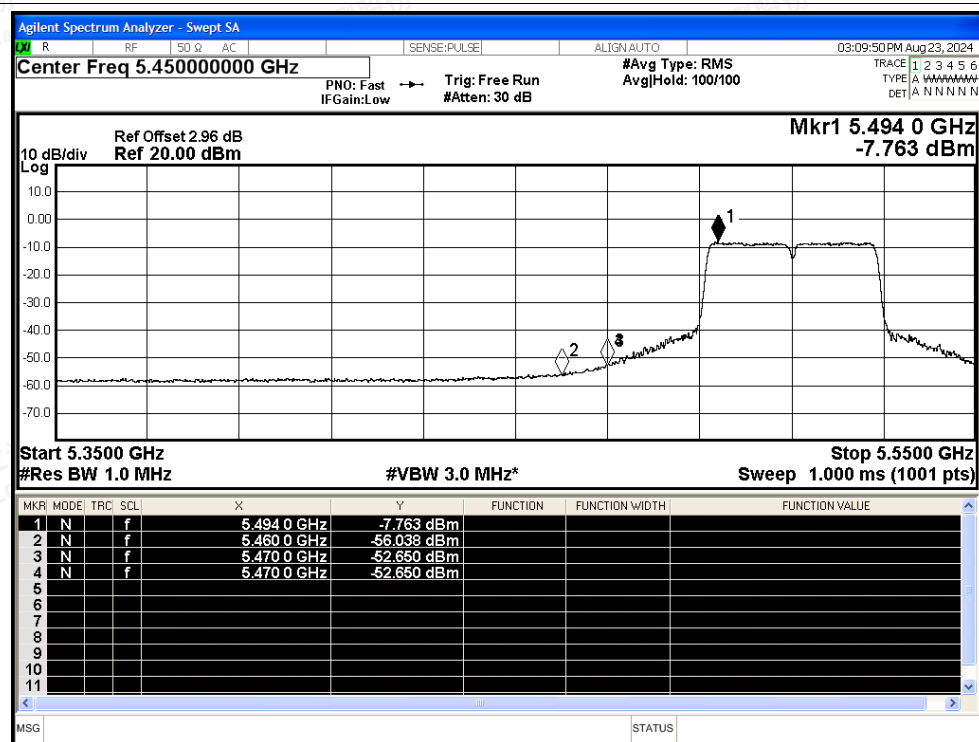
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Restrict Band NVNT n40 5510MHz Ant1 Peak

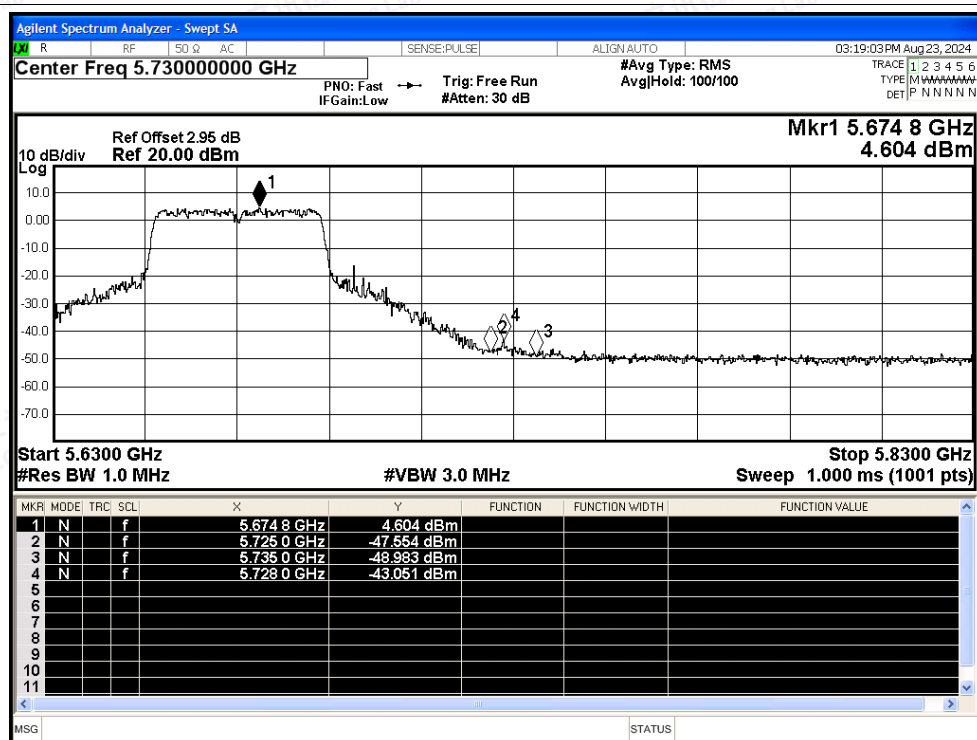


Restrict Band NVNT n40 5510MHz Ant1 Average

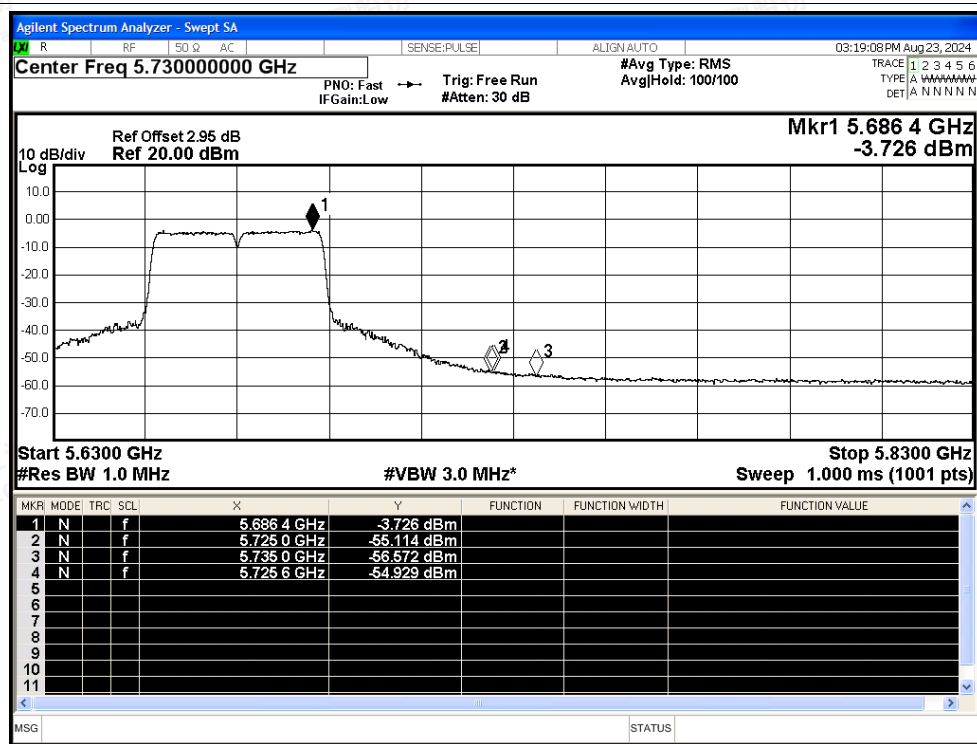




Restrict Band NVNT n40 5670MHz Ant1 Peak



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	5499.98	-20000	-3.64	25	Pass
NVNT	a	5580	Ant1	5579.98	-20000	-3.58	25	Pass
NVNT	a	5700	Ant1	5699.98	-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	5700	0	0	25	Pass
NVNT	n40	5510	Ant1	5509.96	-40000	-7.26	25	Pass
NVNT	n40	5550	Ant1	5550	0	0	25	Pass
NVNT	n40	5670	Ant1	5669.96	-40000	-7.05	25	Pass

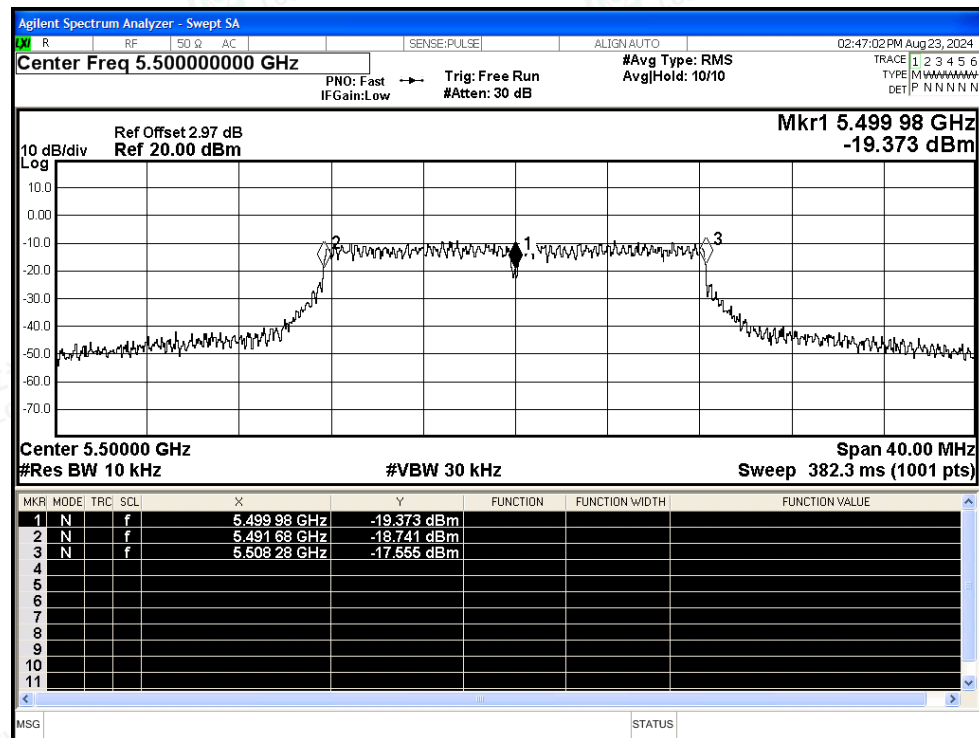


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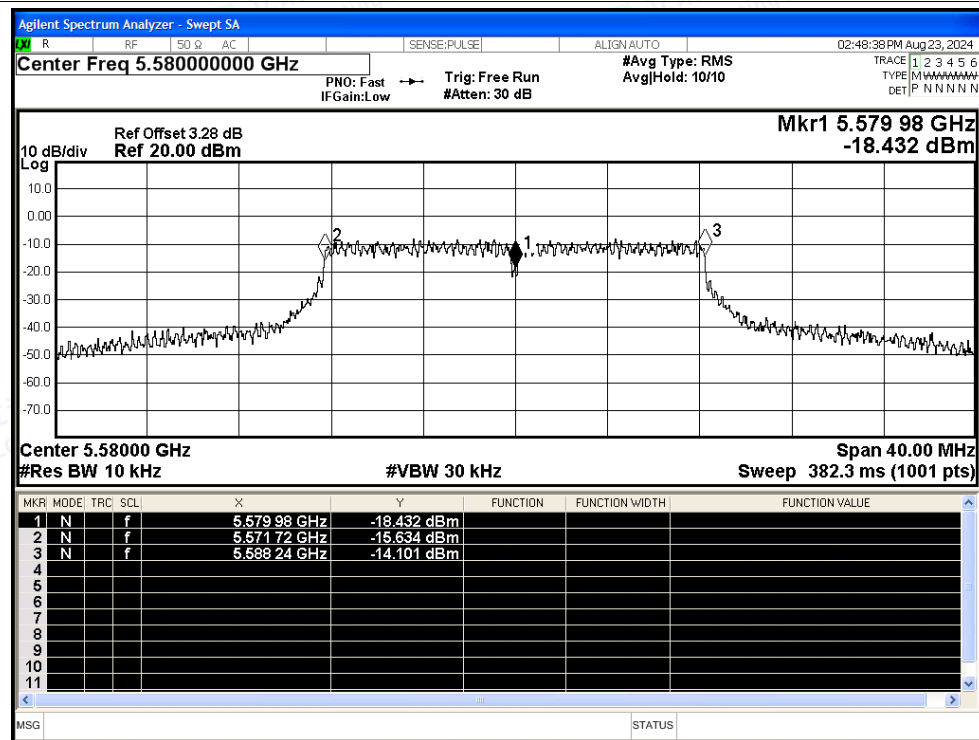


Test Graphs

Freq. Stability NVNT a 5500MHz Ant1

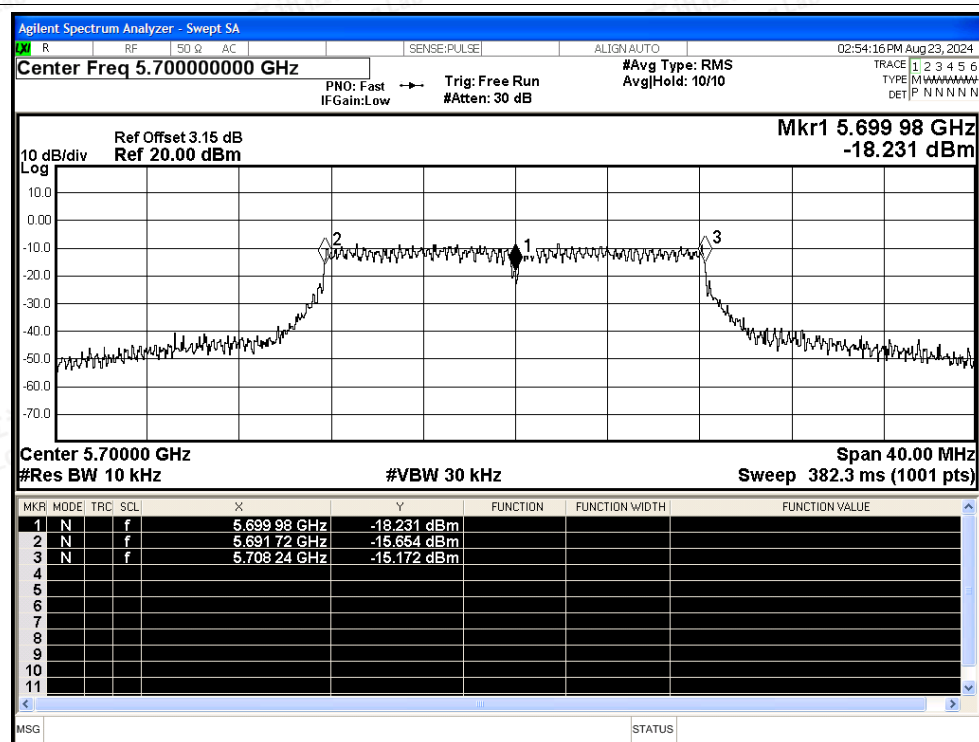


Freq. Stability NVNT a 5580MHz Ant1

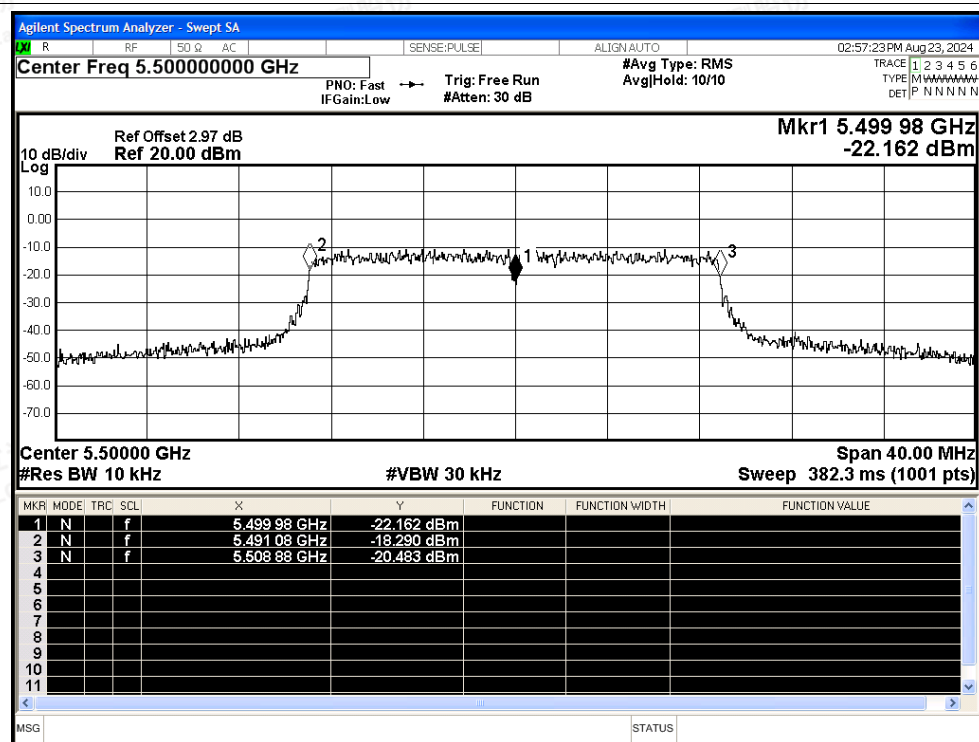




Freq. Stability NVNT a 5700MHz Ant1



Freq. Stability NVNT n20 5500MHz Ant1



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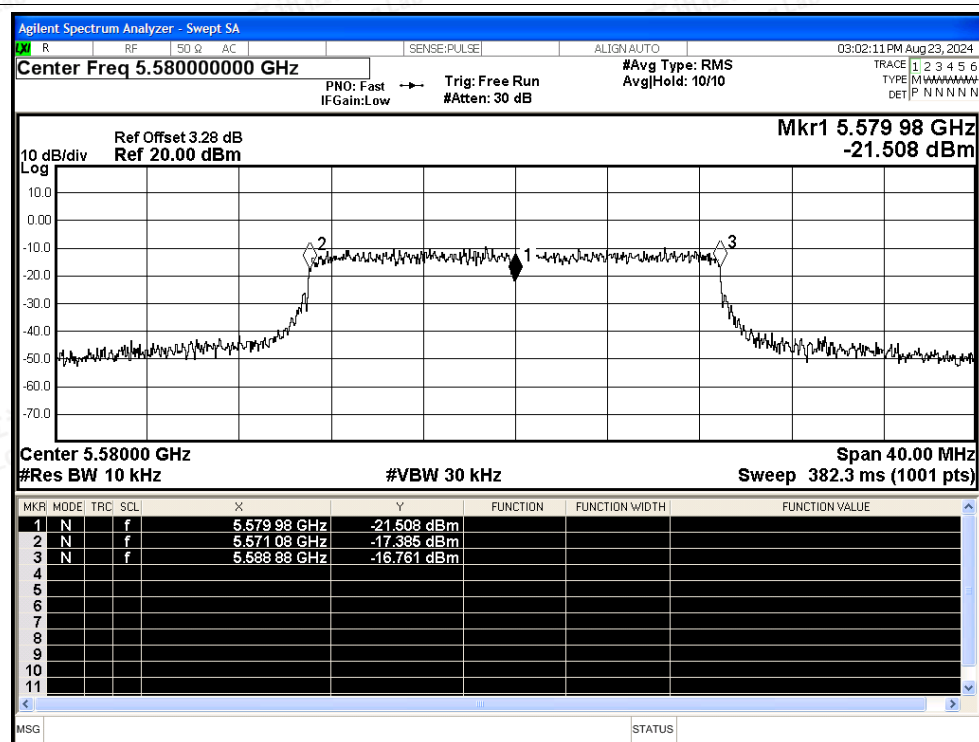
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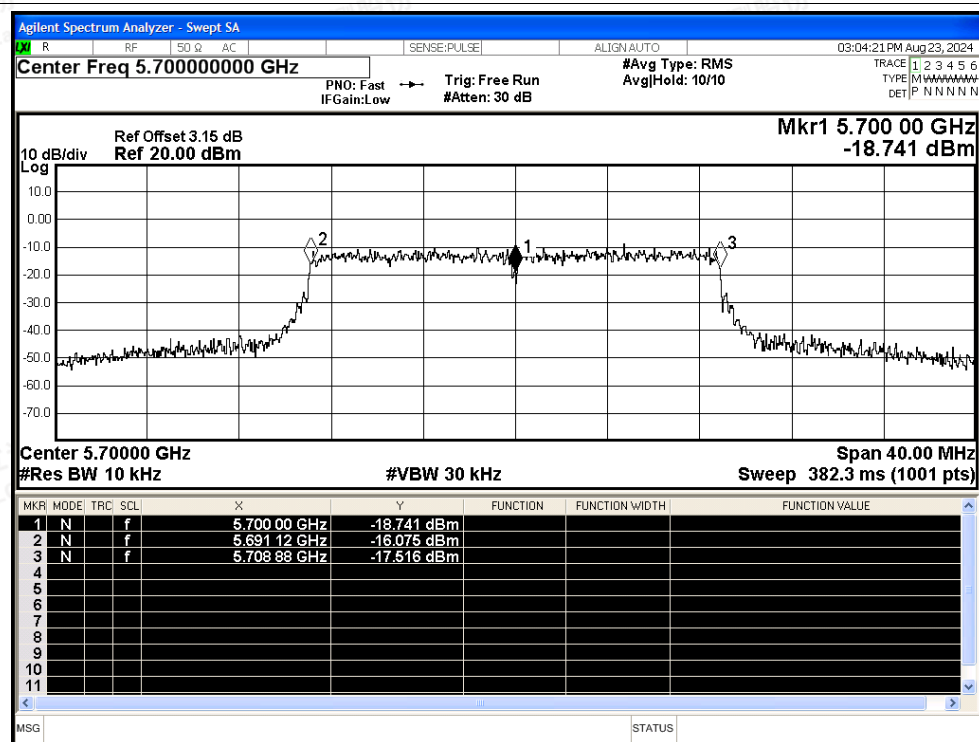
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Freq. Stability NVNT n20 5580MHz Ant1



Freq. Stability NVNT n20 5700MHz Ant1



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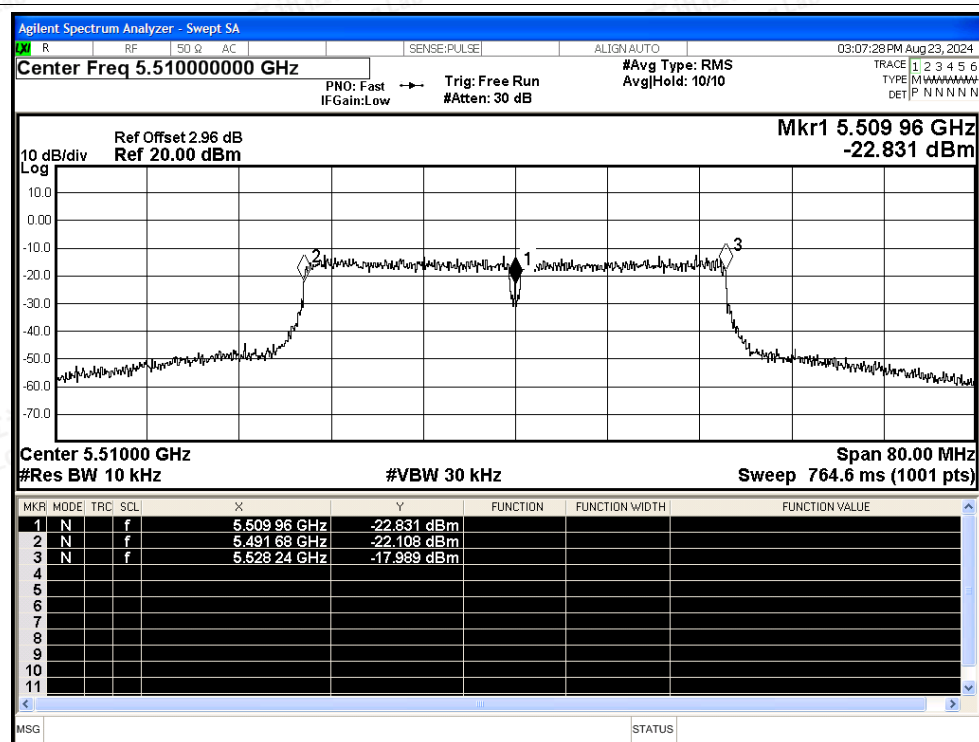
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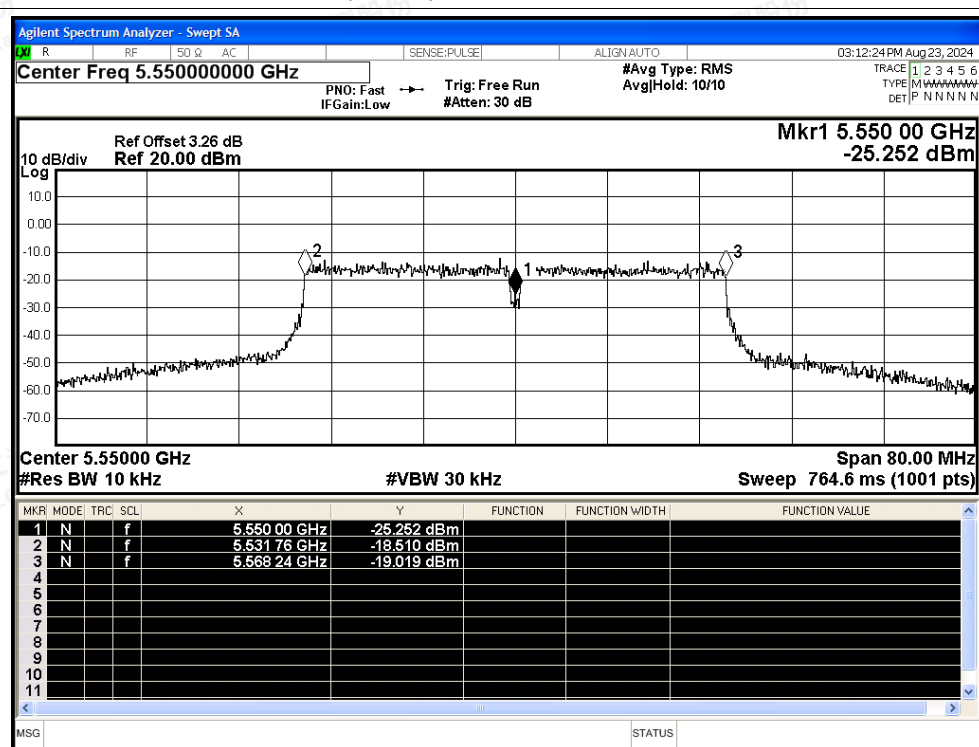
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Freq. Stability NVNT n40 5510MHz Ant1



Freq. Stability NVNT n40 5550MHz Ant1

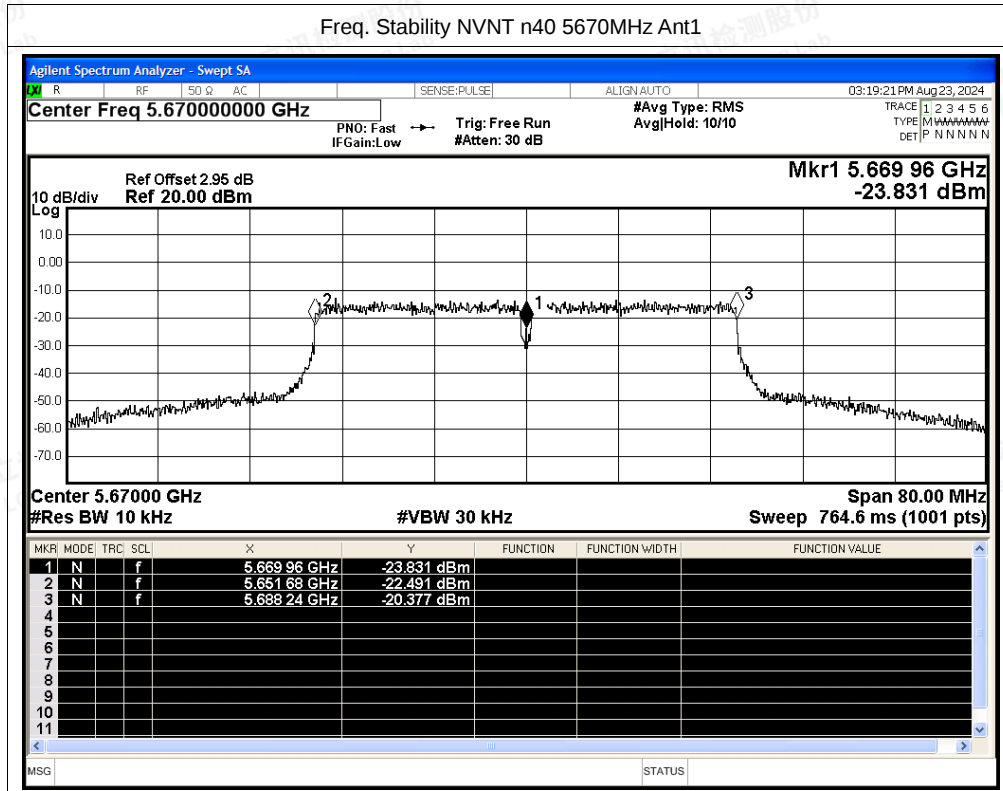


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E.6 Duty Cycle

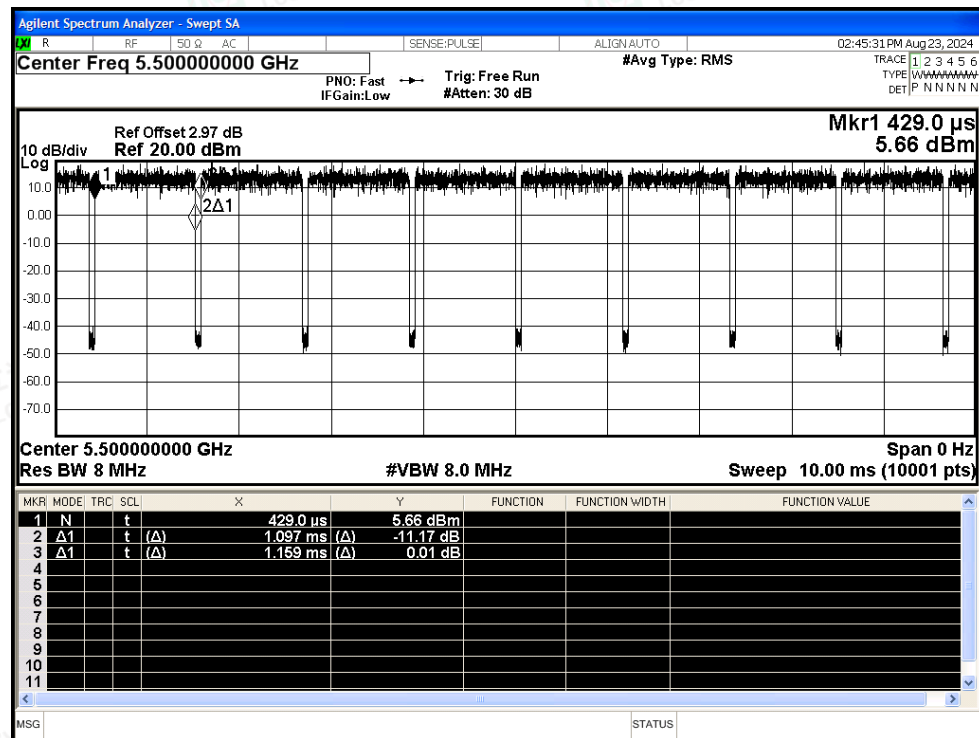
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5500	Ant1	94.65	0.24	0.91
NVNT	a	5580	Ant1	94.65	0.24	0.91
NVNT	a	5700	Ant1	94.65	0.24	0.91
NVNT	n20	5500	Ant1	93.77	0.28	1.07
NVNT	n20	5580	Ant1	93.77	0.28	1.07
NVNT	n20	5700	Ant1	93.77	0.28	1.07
NVNT	n40	5510	Ant1	90.3	0.44	1.73
NVNT	n40	5550	Ant1	90.14	0.45	1.74
NVNT	n40	5670	Ant1	90.3	0.44	1.73



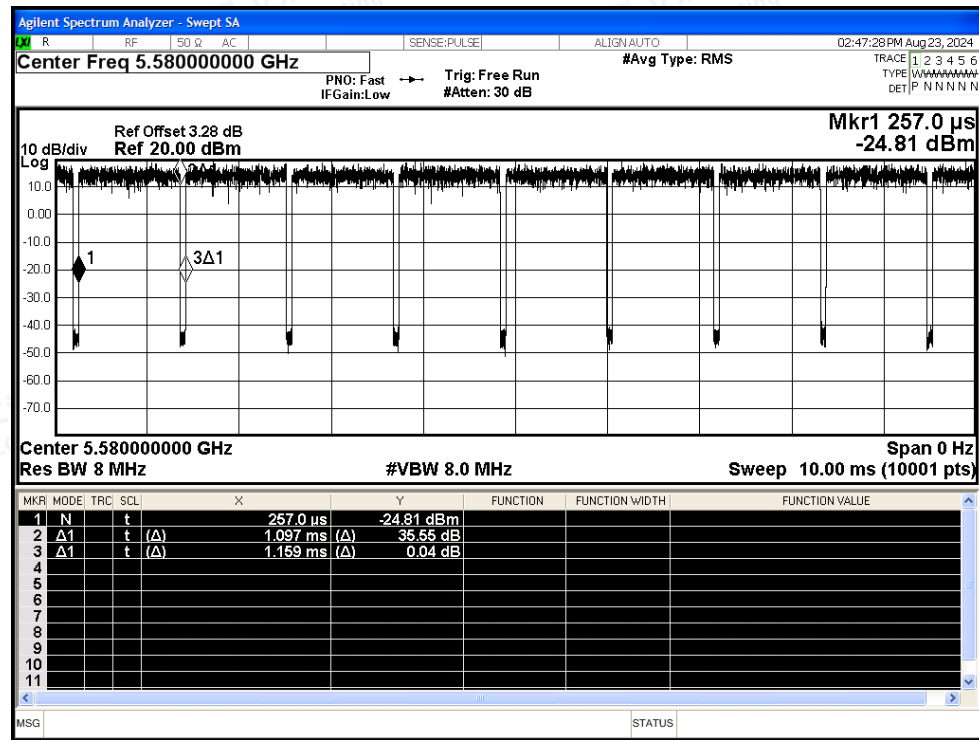


Test Graphs

Duty Cycle NVNT a 5500MHz Ant1



Duty Cycle NVNT a 5580MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

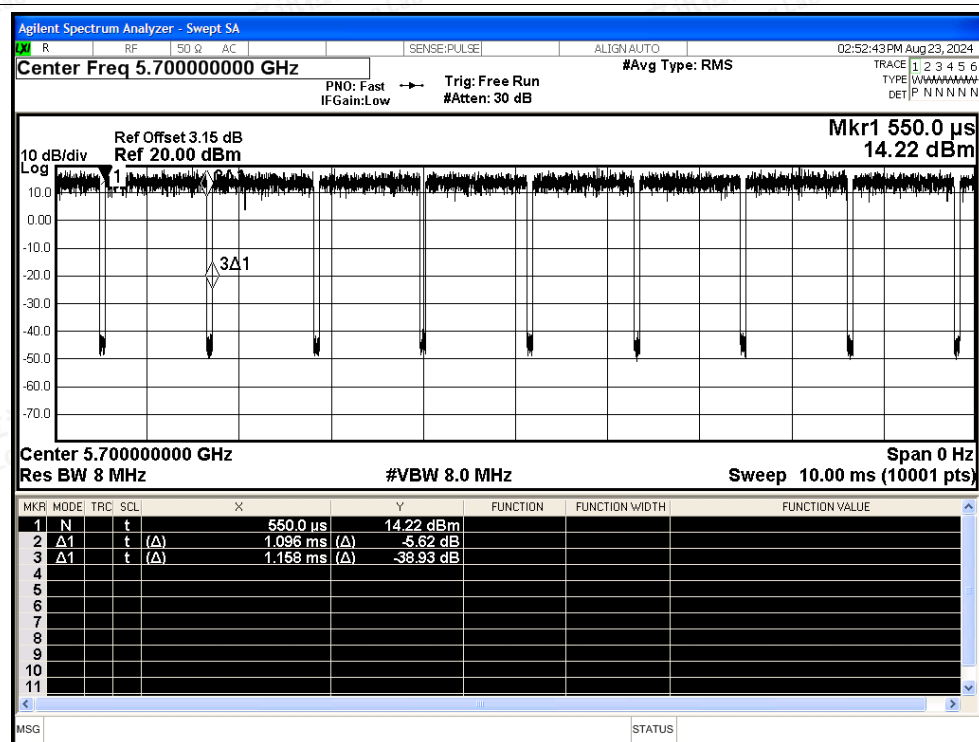
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

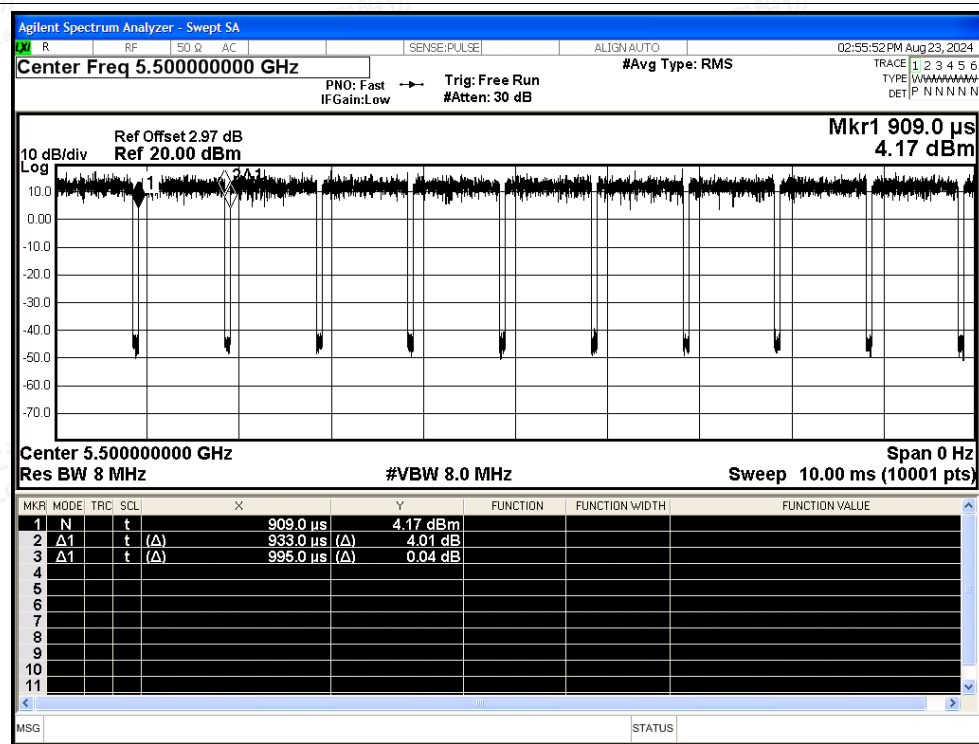
Scan code to check authenticity



Duty Cycle NVNT a 5700MHz Ant1

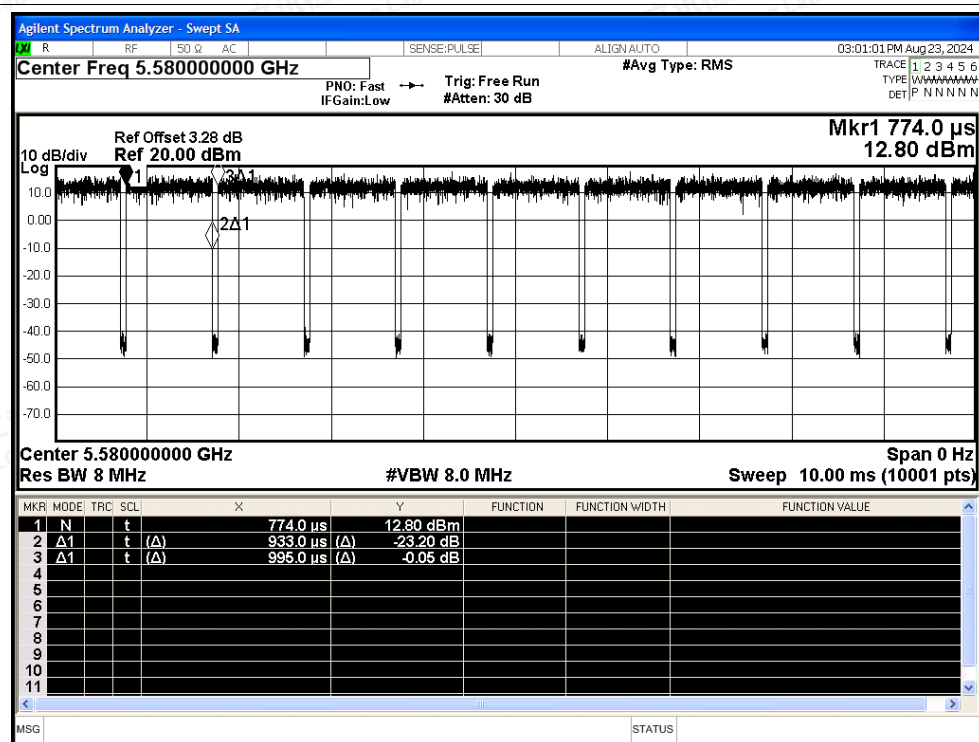


Duty Cycle NVNT n20 5500MHz Ant1

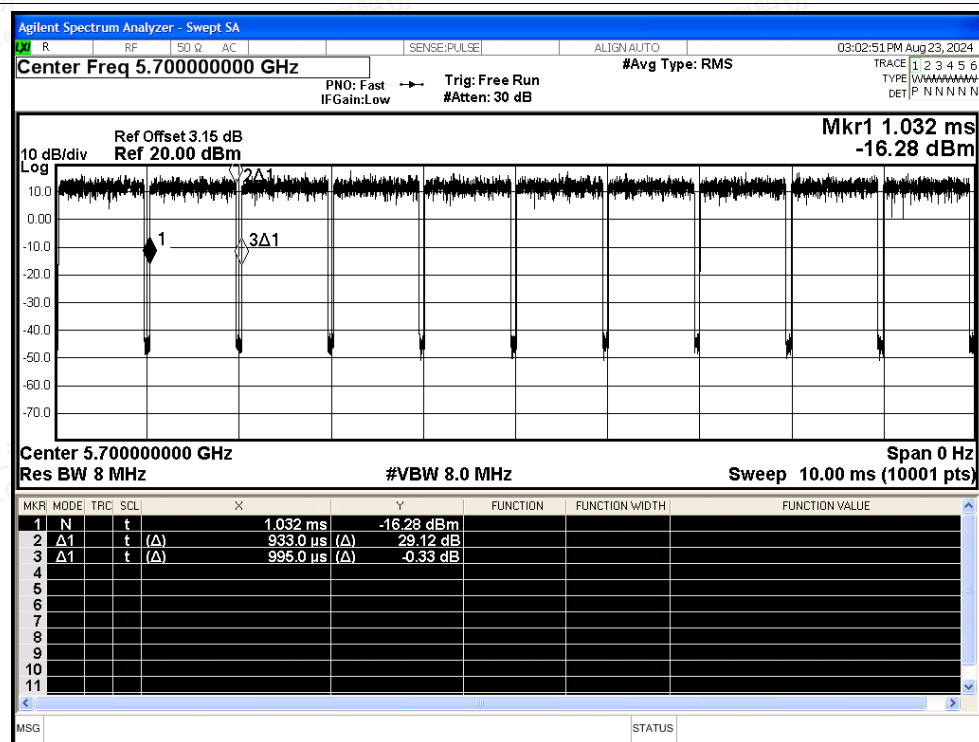




Duty Cycle NVNT n20 5580MHz Ant1

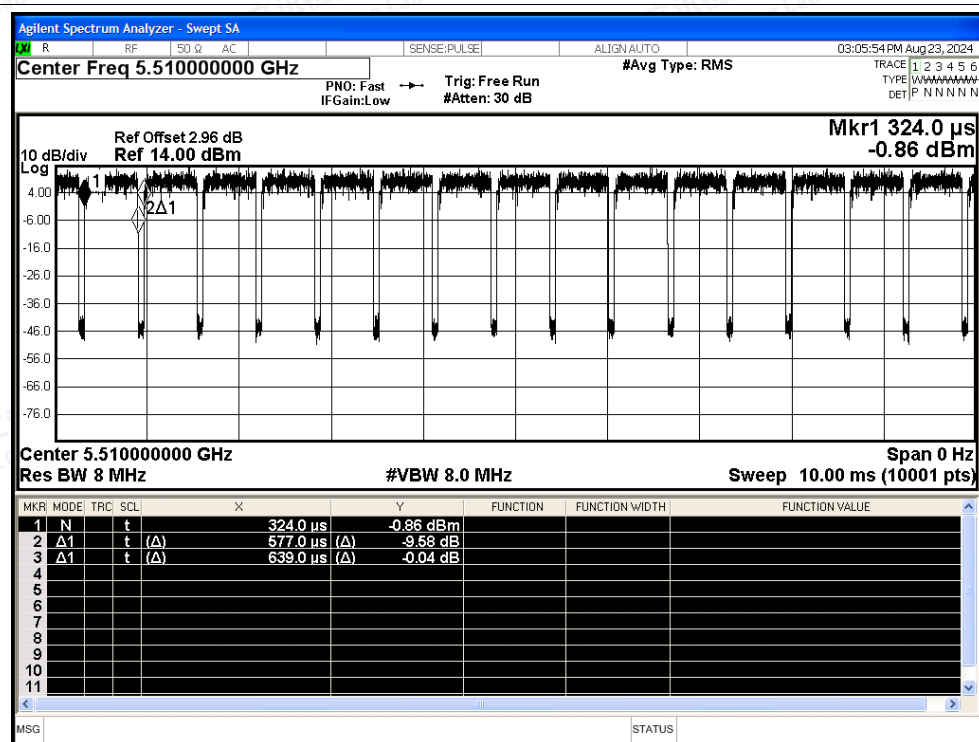


Duty Cycle NVNT n20 5700MHz Ant1





Duty Cycle NVNT n40 5510MHz Ant1



Duty Cycle NVNT n40 5550MHz Ant1

