



Appendix F

RF Test Data for 5.5GWIFI (Conducted Measurement)

Product Name: GNSS RECEIVER

Test Model: G7Q

Environmental Conditions

Temperature:	24.5° C
Relative Humidity:	53.6%
ATM Pressure:	100.0 kPa
Test Engineer:	Jerry Chu
Supervised by:	Can Kun



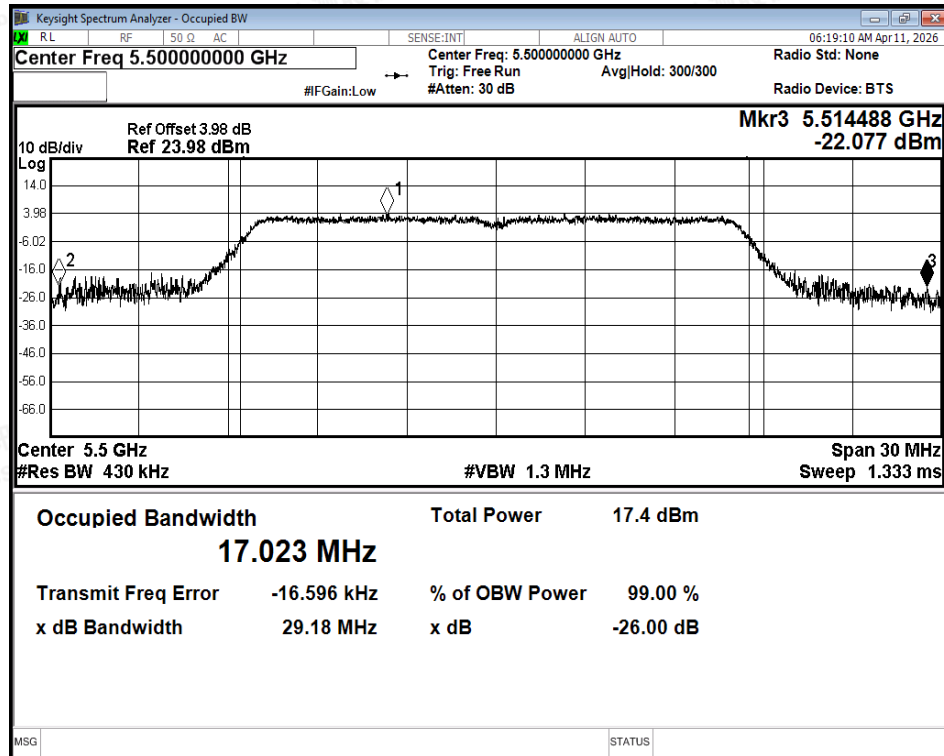
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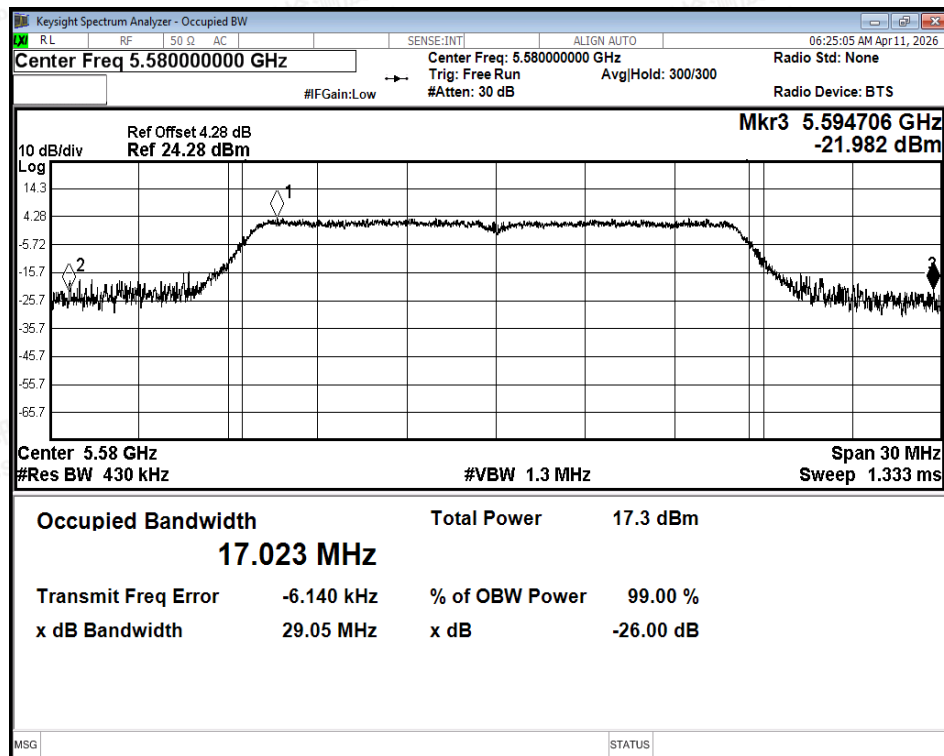
F.1 -26dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)
NVNT	a	5500	Ant1	29.18
NVNT	a	5580	Ant1	29.05
NVNT	a	5700	Ant1	29.07
NVNT	n20	5500	Ant1	28.91
NVNT	n20	5580	Ant1	29.43
NVNT	n20	5700	Ant1	29.32
NVNT	n40	5510	Ant1	45.27
NVNT	n40	5550	Ant1	50.87
NVNT	n40	5670	Ant1	47.46



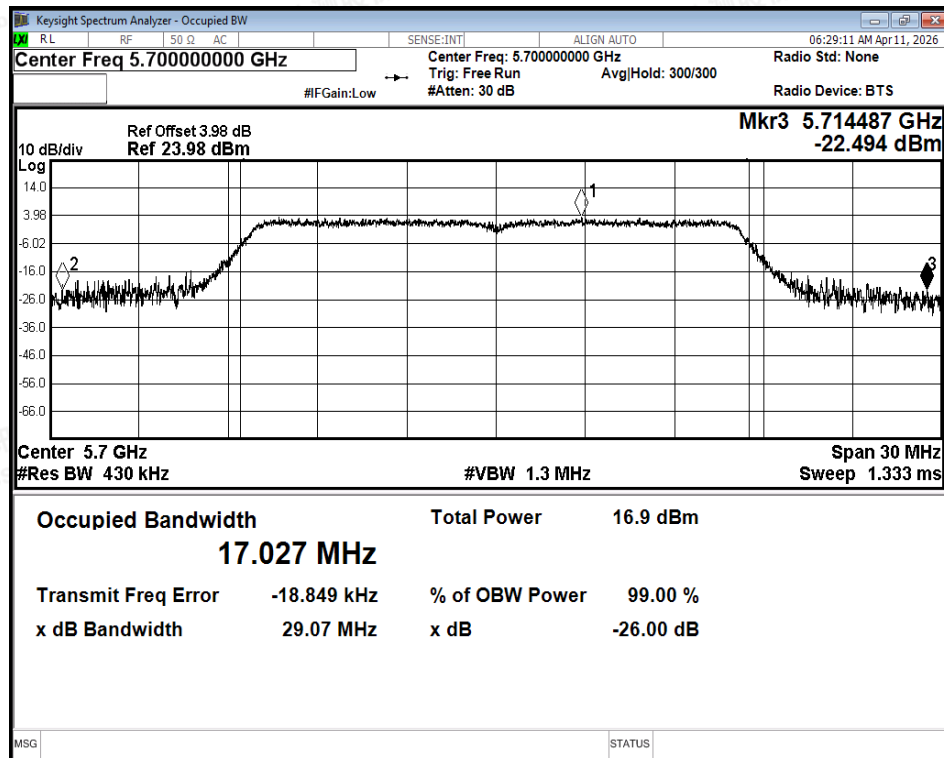


-26dB Bandwidth NVNT a 5500MHz Ant1

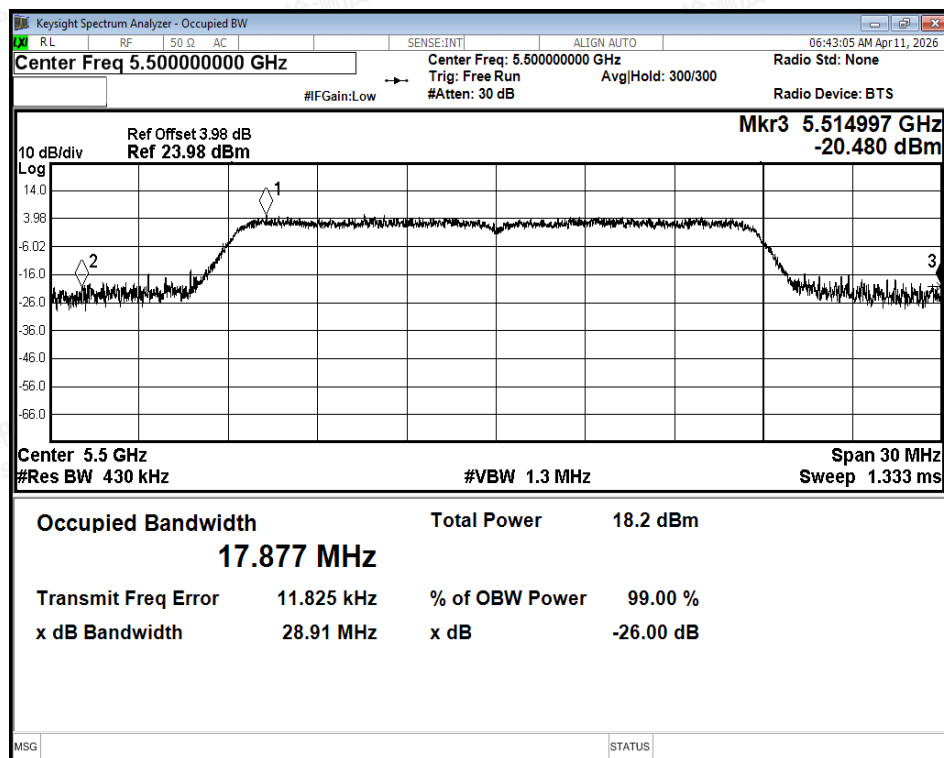


-26dB Bandwidth NVNT a 5580MHz Ant1



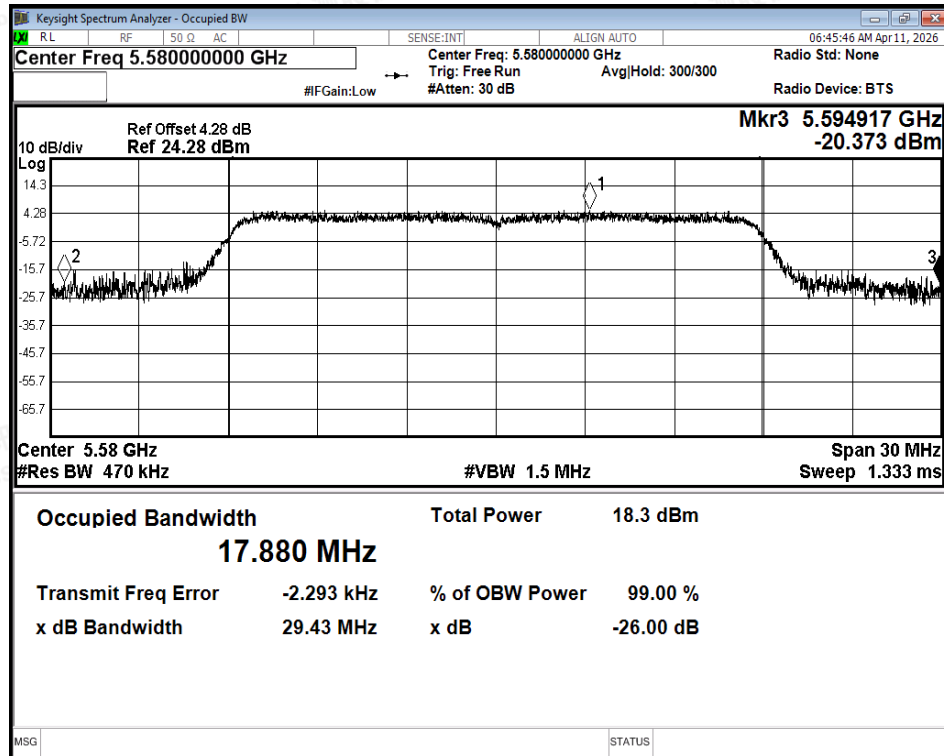


-26dB Bandwidth NVNT a 5700MHz Ant1

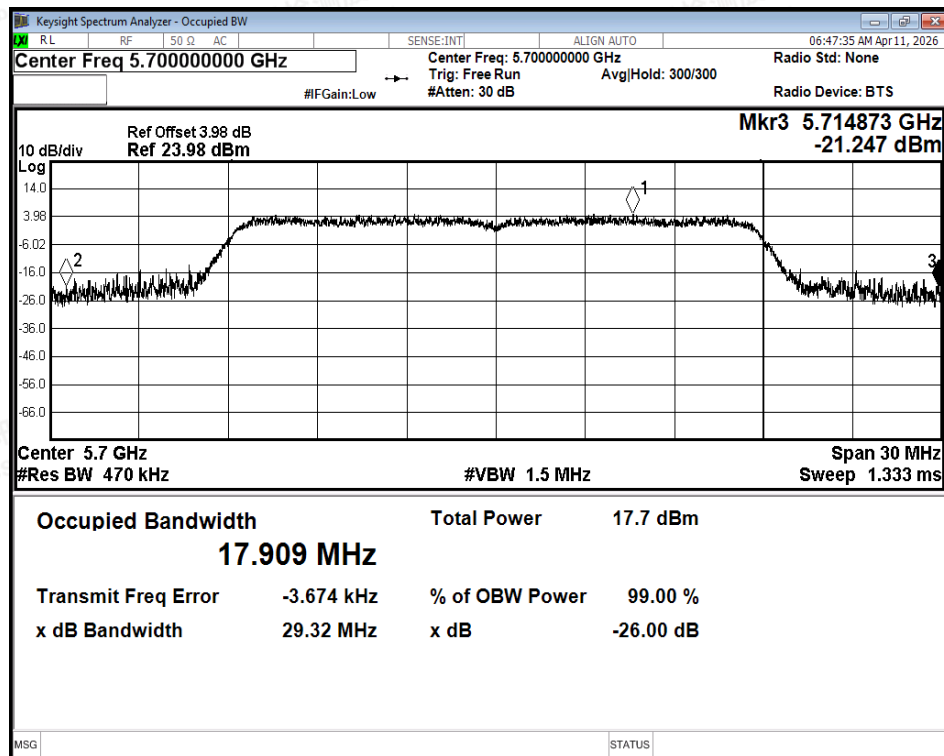


-26dB Bandwidth NVNT n20 5500MHz Ant1



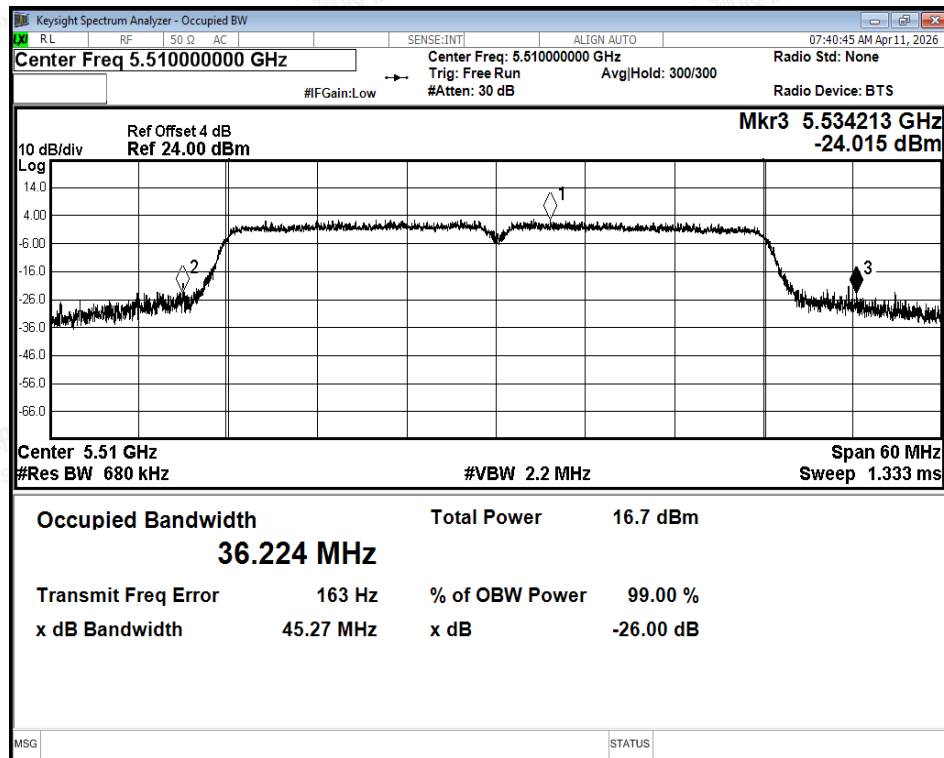


-26dB Bandwidth NVNT n20 5580MHz Ant1

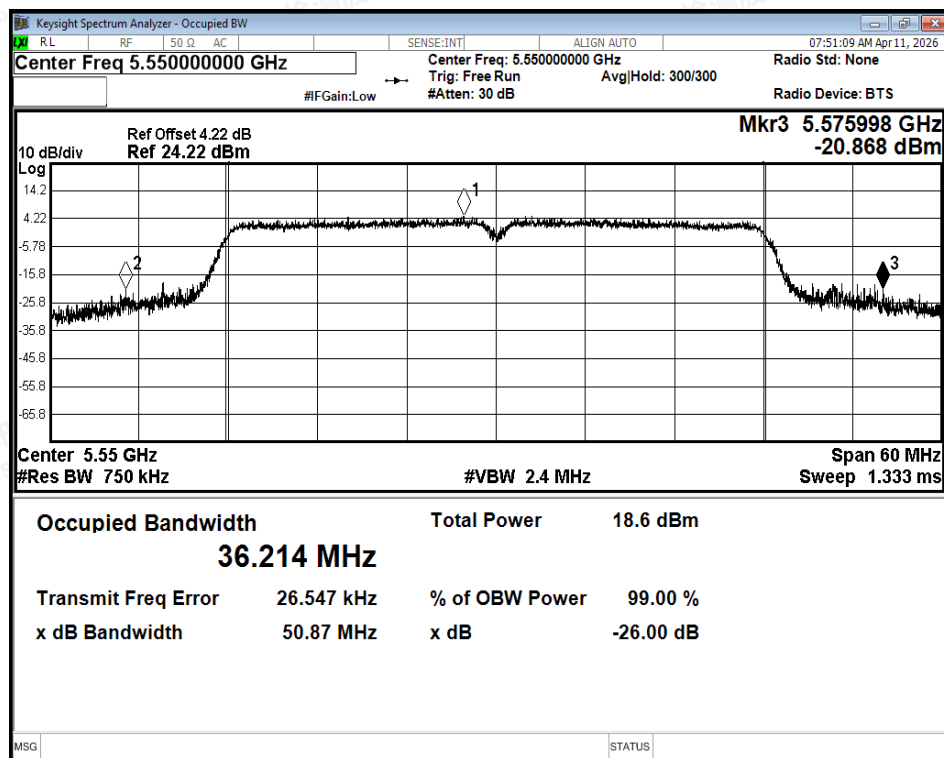


-26dB Bandwidth NVNT n20 5700MHz Ant1



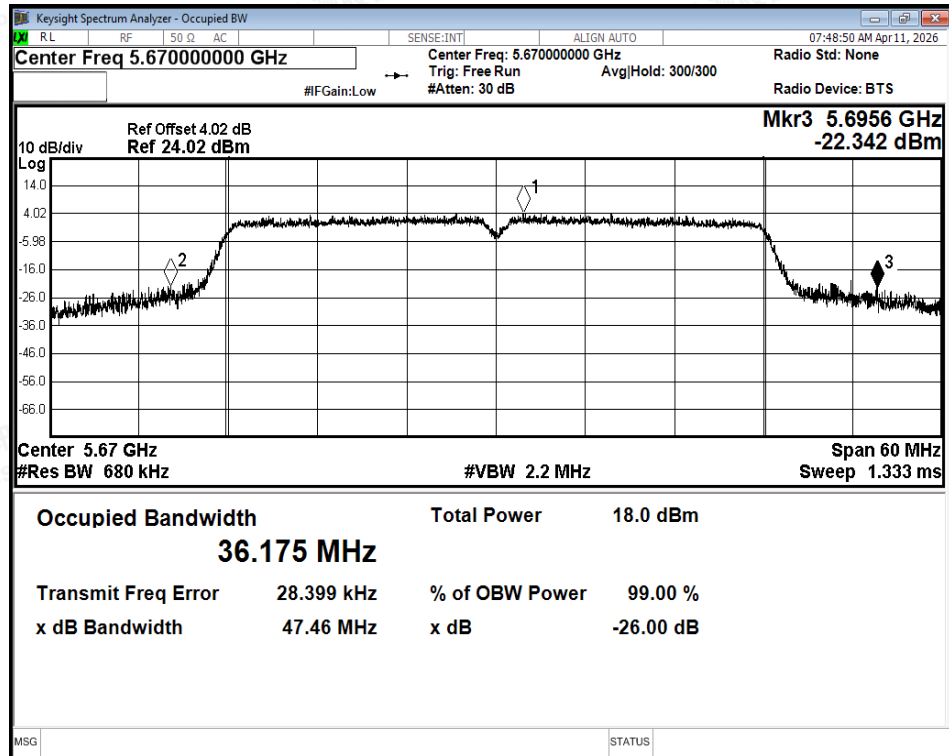


-26dB Bandwidth NVNT n40 5510MHz Ant1



-26dB Bandwidth NVNT n40 5550MHz Ant1





-26dB Bandwidth NVNT n40 5670MHz Ant1





F.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Conducted Power (dBm)	Limit Conducted(dBm)	Verdict
NVNT	a	5500	Ant1	11.71	0.1	11.81	24	Pass
NVNT	a	5580	Ant1	11.1	0.1	11.2	24	Pass
NVNT	a	5700	Ant1	10.59	0.11	10.7	24	Pass
NVNT	n20	5500	Ant1	11.66	0.11	11.77	24	Pass
NVNT	n20	5580	Ant1	11.61	0.13	11.74	24	Pass
NVNT	n20	5700	Ant1	10.99	0.11	11.1	24	Pass
NVNT	n40	5510	Ant1	9.72	0.27	9.99	24	Pass
NVNT	n40	5550	Ant1	11.39	0.42	11.81	24	Pass
NVNT	n40	5670	Ant1	10.89	0.49	11.38	24	Pass

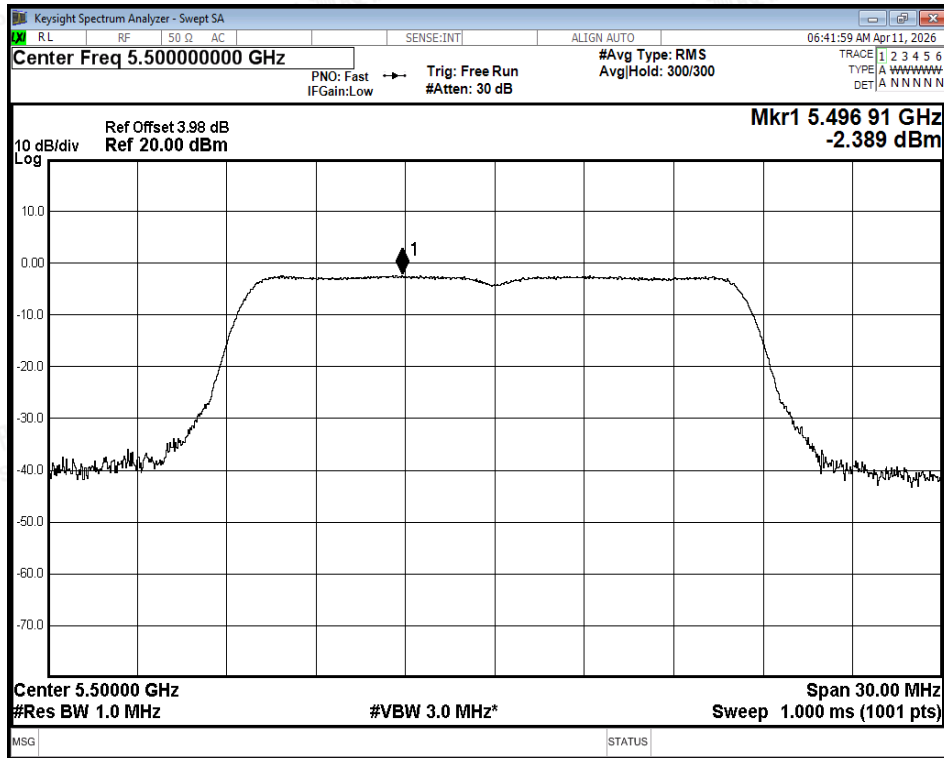




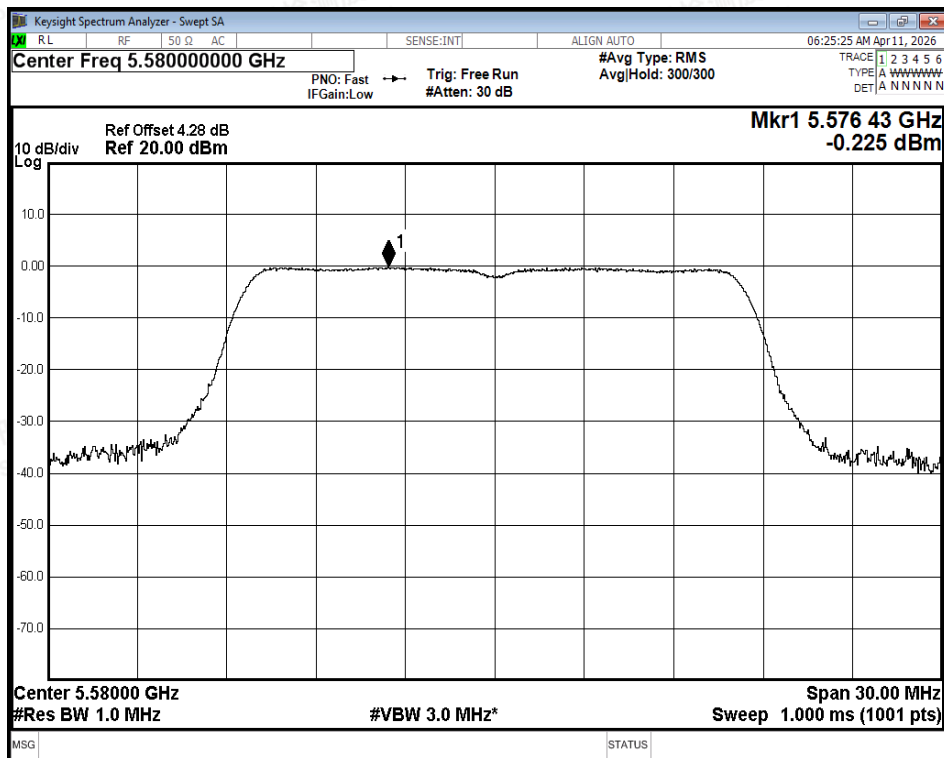
F.3 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/MHz)	Duty Factor (dB)	Total PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	a	5500	Ant1	-2.39	0.1	-2.29	11	Pass
NVNT	a	5580	Ant1	-0.23	0.1	-0.13	11	Pass
NVNT	a	5700	Ant1	-0.67	0.11	-0.56	11	Pass
NVNT	n20	5500	Ant1	0.31	0.11	0.42	11	Pass
NVNT	n20	5580	Ant1	0.07	0.13	0.2	11	Pass
NVNT	n20	5700	Ant1	-0.5	0.11	-0.39	11	Pass
NVNT	n40	5510	Ant1	-4.66	0.27	-4.39	11	Pass
NVNT	n40	5550	Ant1	-2.92	0.42	-2.5	11	Pass
NVNT	n40	5670	Ant1	-3.44	0.49	-2.95	11	Pass



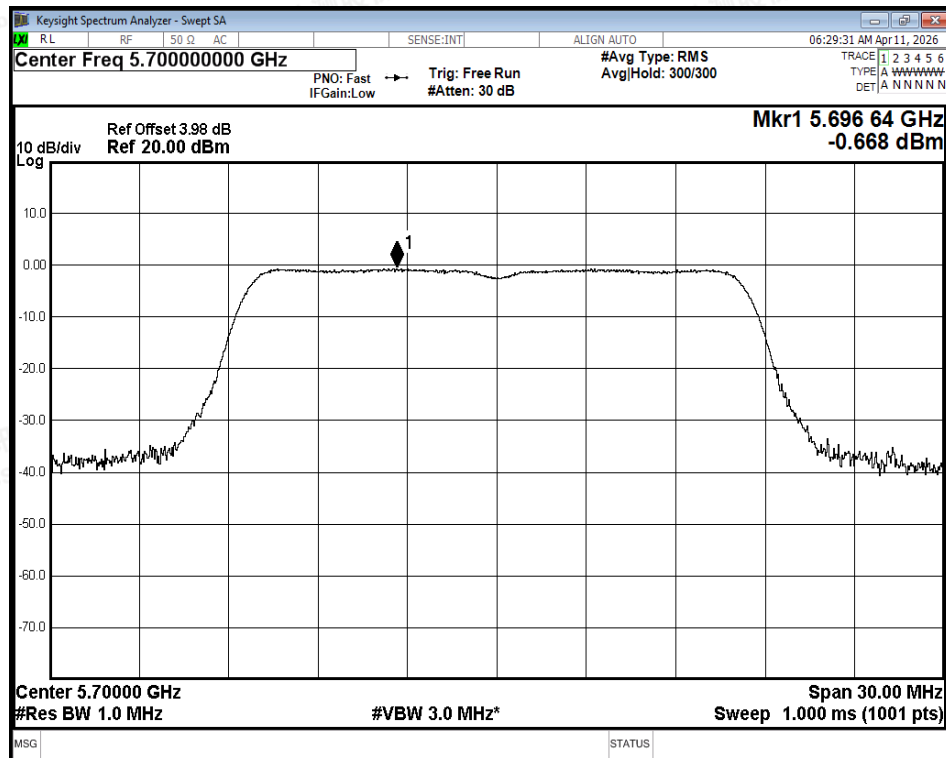


PSD NVNT a 5500MHz Ant1

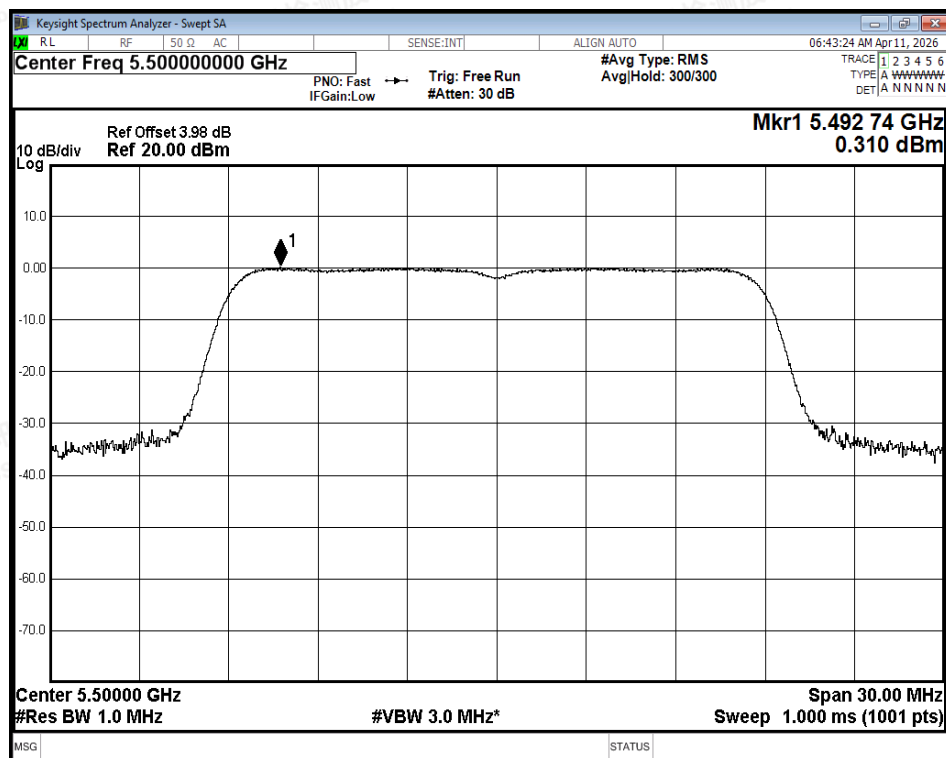


PSD NVNT a 5580MHz Ant1



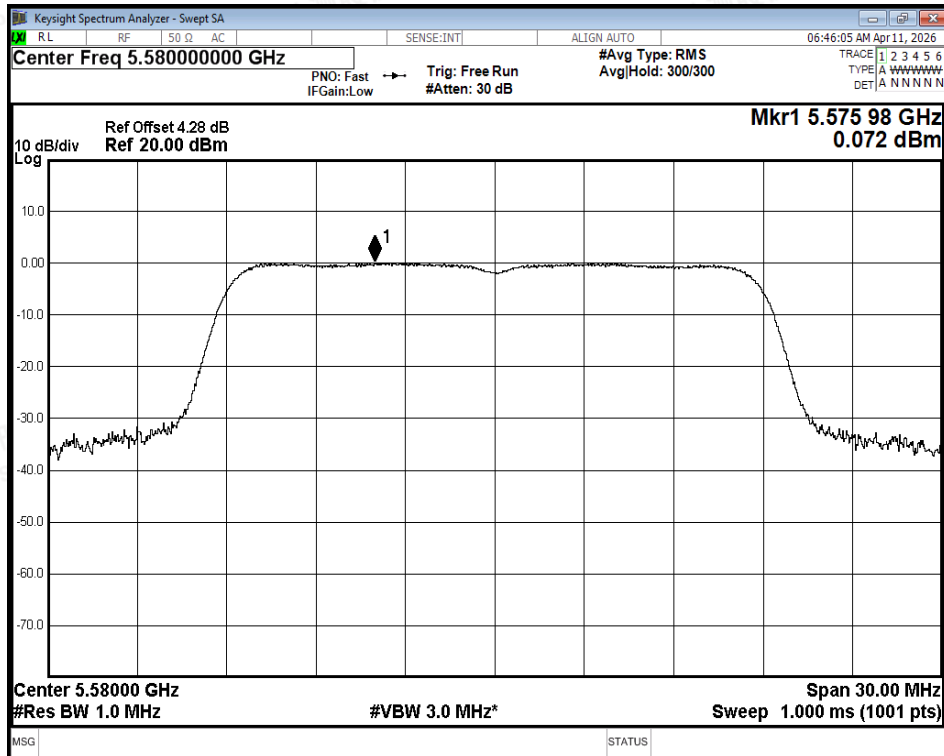


PSD NVNT a 5700MHz Ant1

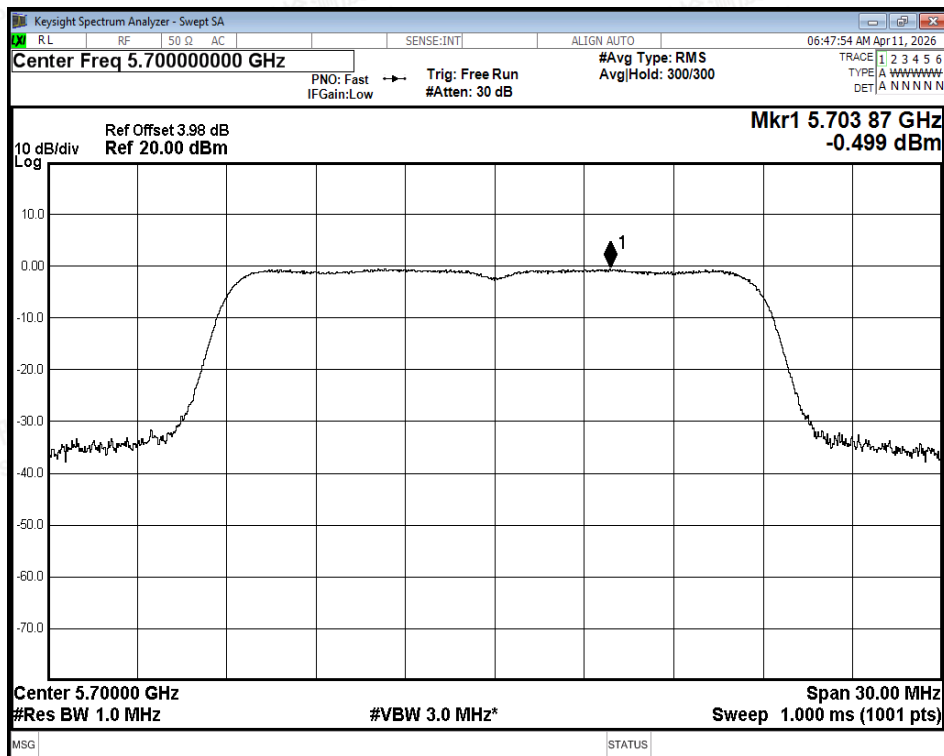


PSD NVNT n20 5500MHz Ant1



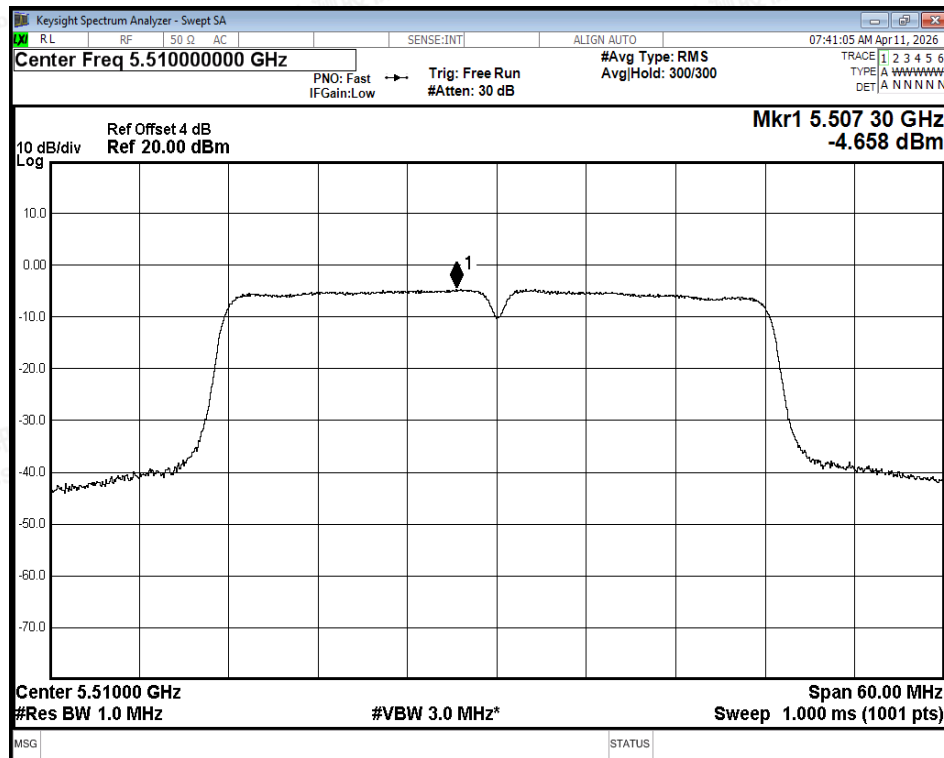


PSD NVNT n20 5580MHz Ant1

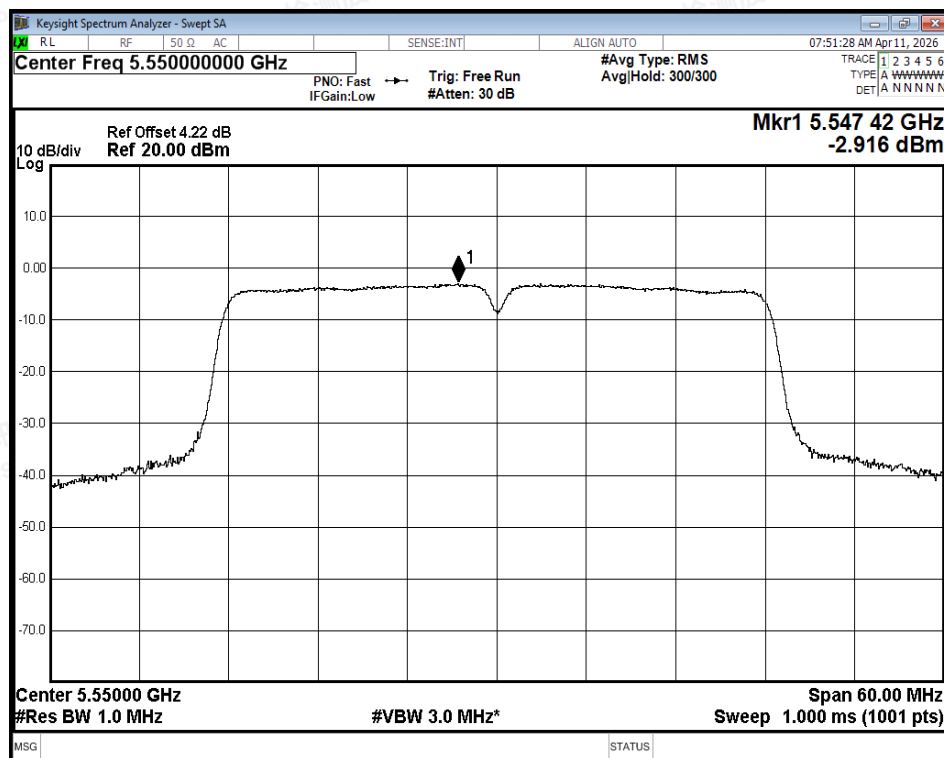


PSD NVNT n20 5700MHz Ant1



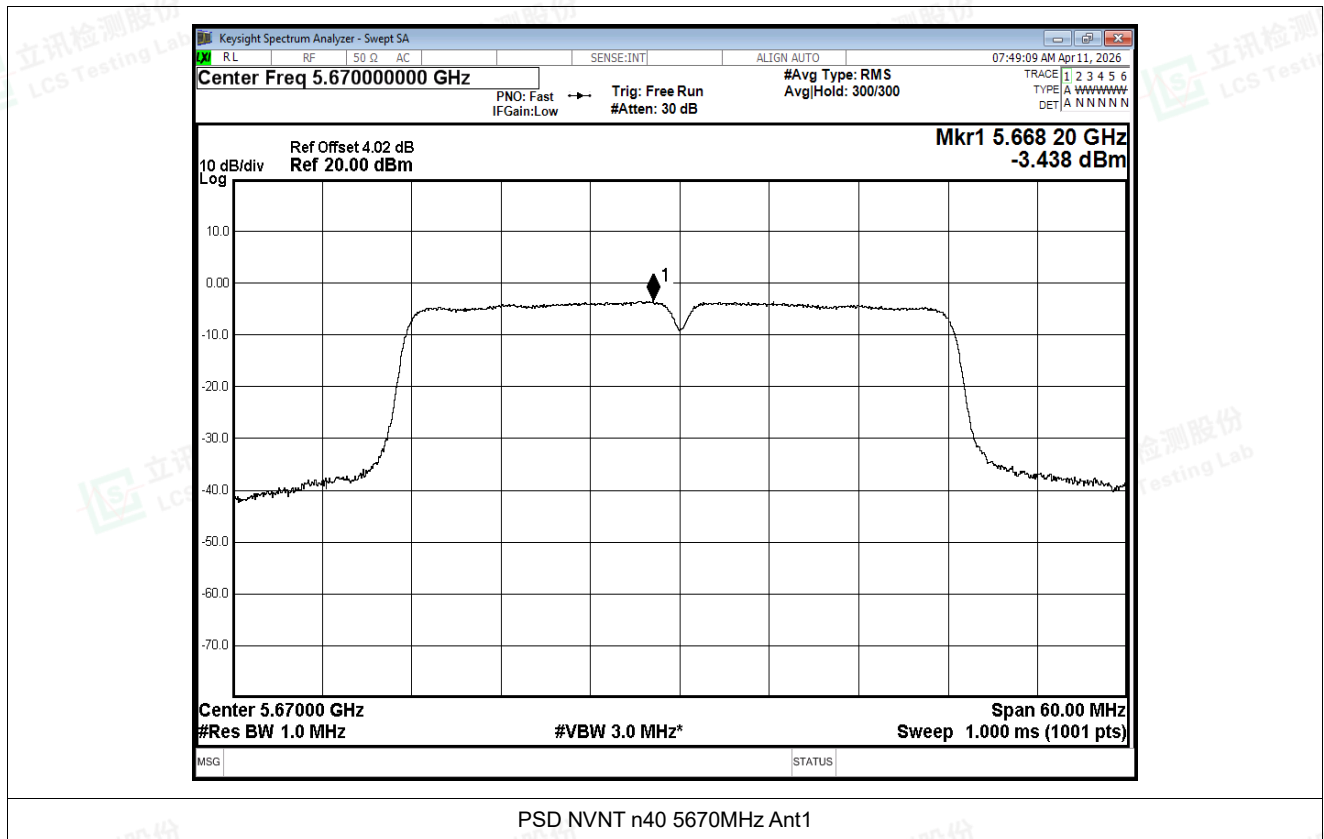


PSD NVNT n40 5510MHz Ant1



PSD NVNT n40 5550MHz Ant1



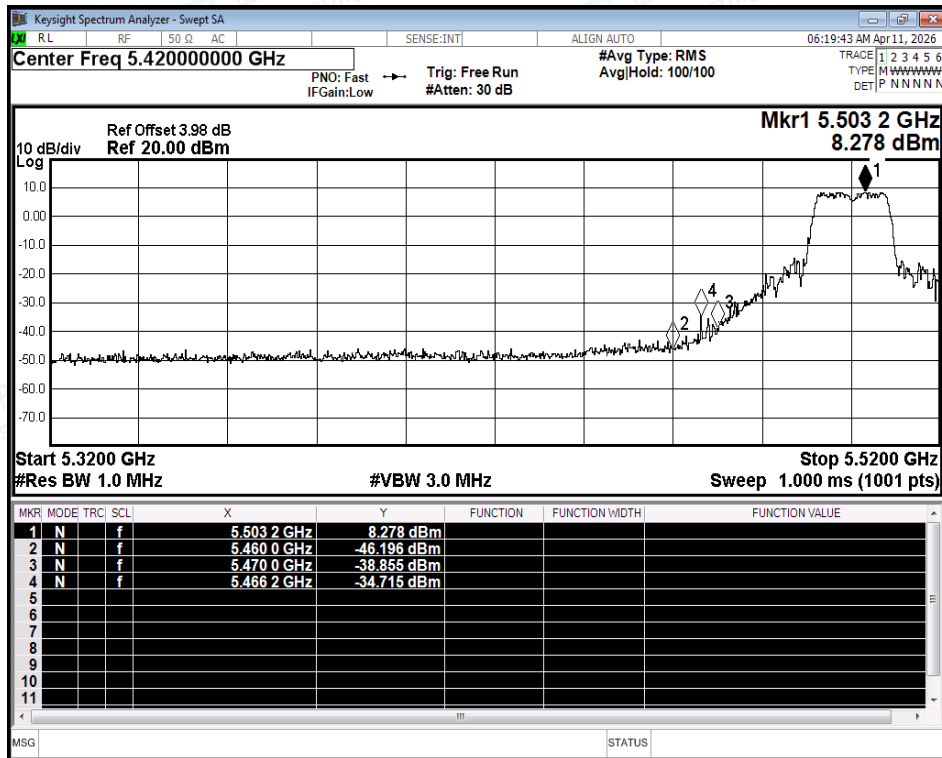




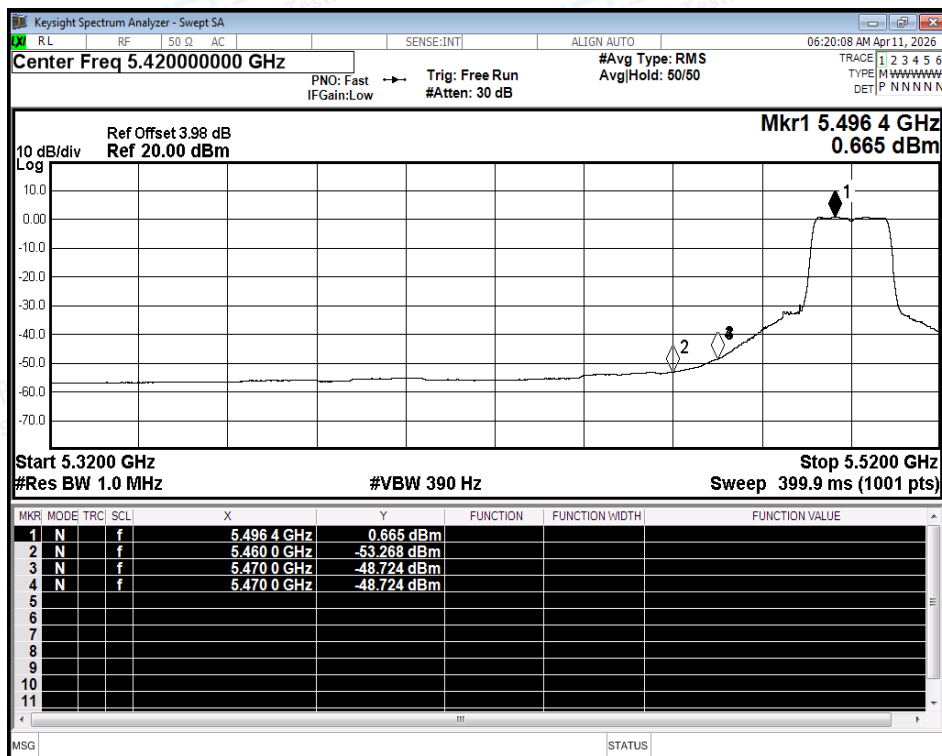
F.4 Restrict Band

Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	a	5500	Ant1	5460	-46.19	2	51.04	Peak	68.2	Pass
NVNT	a	5500	Ant1	5460	-53.26	2	43.97	Average	54	Pass
NVNT	a	5500	Ant1	5466.2	-34.71	2	62.52	Peak	68.2	Pass
NVNT	a	5500	Ant1	5470	-48.72	2	48.51	Average	54	Pass
NVNT	a	5500	Ant1	5470	-38.85	2	58.38	Peak	68.2	Pass
NVNT	a	5500	Ant1	5470	-48.72	2	48.51	Average	54	Pass
NVNT	a	5700	Ant1	5725	-38.85	2	58.38	Peak	68.2	Pass
NVNT	a	5700	Ant1	5725	-52.21	2	45.02	Average	54	Pass
NVNT	a	5700	Ant1	5725	-38.85	2	58.38	Peak	68.2	Pass
NVNT	a	5700	Ant1	5725	-52.21	2	45.02	Average	54	Pass
NVNT	a	5700	Ant1	5735	-49.53	2	47.7	Peak	68.2	Pass
NVNT	a	5700	Ant1	5735	-55.78	2	41.45	Average	54	Pass
NVNT	n20	5500	Ant1	5460	-44.11	2	53.12	Peak	68.2	Pass
NVNT	n20	5500	Ant1	5460	-52.16	2	45.07	Average	54	Pass
NVNT	n20	5500	Ant1	5469.4	-29.58	2	67.65	Peak	68.2	Pass
NVNT	n20	5500	Ant1	5470	-44.44	2	52.79	Average	54	Pass
NVNT	n20	5500	Ant1	5470	-34.57	2	62.66	Peak	68.2	Pass
NVNT	n20	5500	Ant1	5470	-44.44	2	52.79	Average	54	Pass
NVNT	n20	5700	Ant1	5725	-34.55	2	62.68	Peak	68.2	Pass
NVNT	n20	5700	Ant1	5725	-51.56	2	45.67	Average	54	Pass
NVNT	n20	5700	Ant1	5725.2	-33.78	2	63.45	Peak	68.2	Pass
NVNT	n20	5700	Ant1	5725	-51.56	2	45.67	Average	54	Pass
NVNT	n20	5700	Ant1	5735	-52.01	2	45.22	Peak	68.2	Pass
NVNT	n20	5700	Ant1	5735	-60.04	2	37.19	Average	54	Pass
NVNT	n40	5510	Ant1	5460	-48.3	2	48.93	Peak	68.2	Pass
NVNT	n40	5510	Ant1	5460	-55.22	2	42.01	Average	54	Pass
NVNT	n40	5510	Ant1	5468.4	-40.68	2	56.55	Peak	68.2	Pass
NVNT	n40	5510	Ant1	5470	-51.67	2	45.56	Average	54	Pass
NVNT	n40	5510	Ant1	5470	-43.64	2	53.59	Peak	68.2	Pass
NVNT	n40	5510	Ant1	5470	-51.67	2	45.56	Average	54	Pass
NVNT	n40	5670	Ant1	5725	-49.09	2	48.14	Peak	68.2	Pass
NVNT	n40	5670	Ant1	5725	-55.87	2	41.36	Average	54	Pass
NVNT	n40	5670	Ant1	5732.2	-45.82	2	51.41	Peak	68.2	Pass
NVNT	n40	5670	Ant1	5725.6	-55.7	2	41.53	Average	54	Pass
NVNT	n40	5670	Ant1	5735	-49.13	2	48.1	Peak	68.2	Pass
NVNT	n40	5670	Ant1	5735	-56	2	41.23	Average	54	Pass





Restrict Band NVNT a 5500MHz Ant1 Peak



Restrict Band NVNT a 5500MHz Ant1 Average

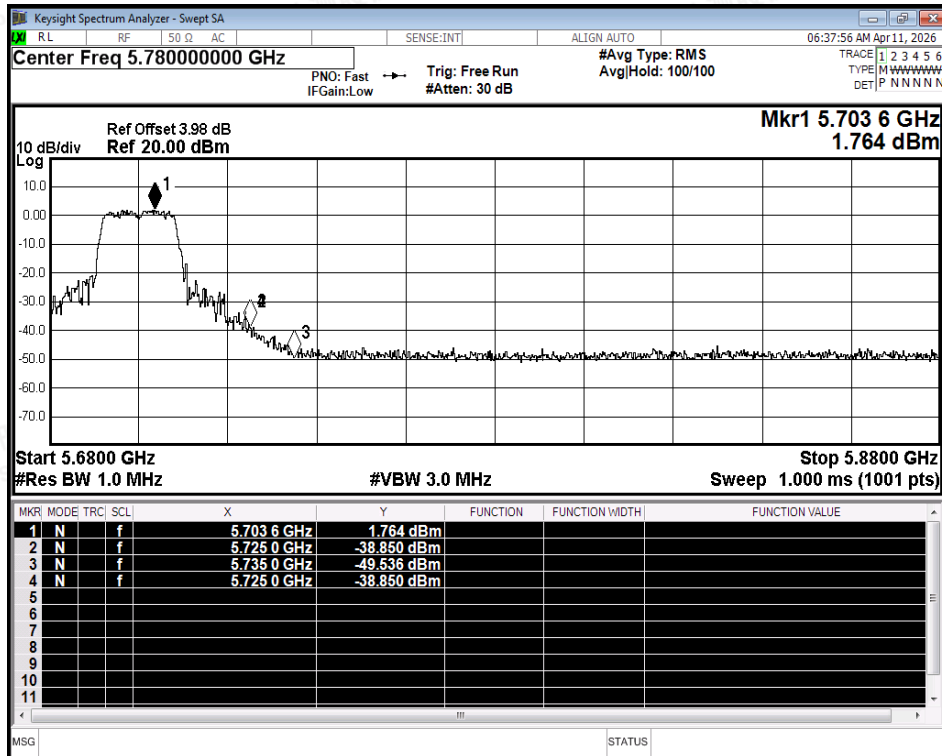


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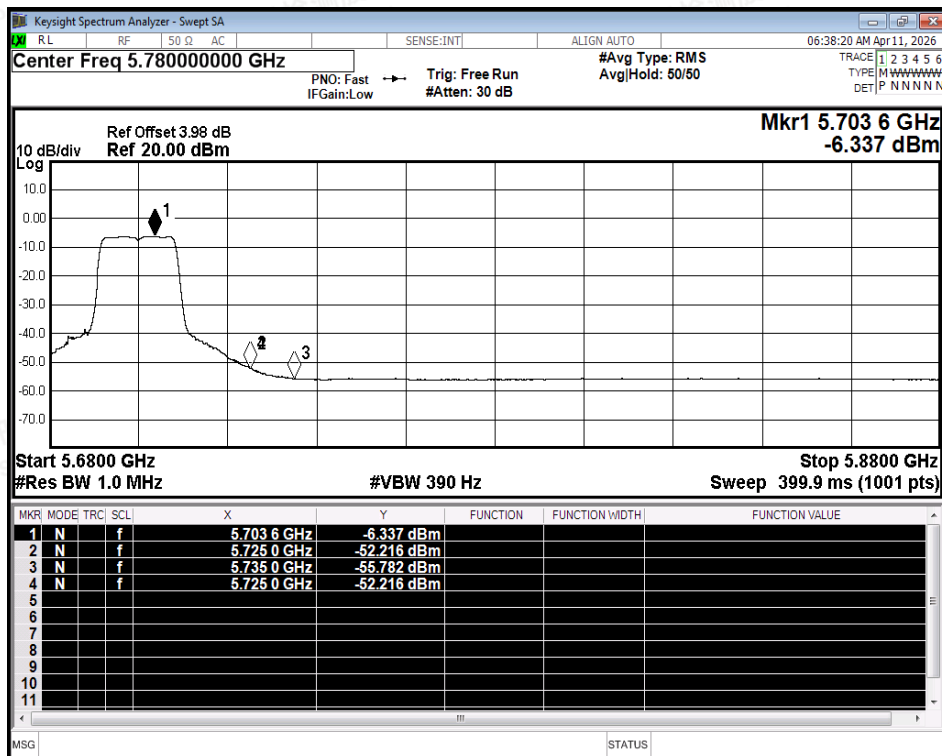
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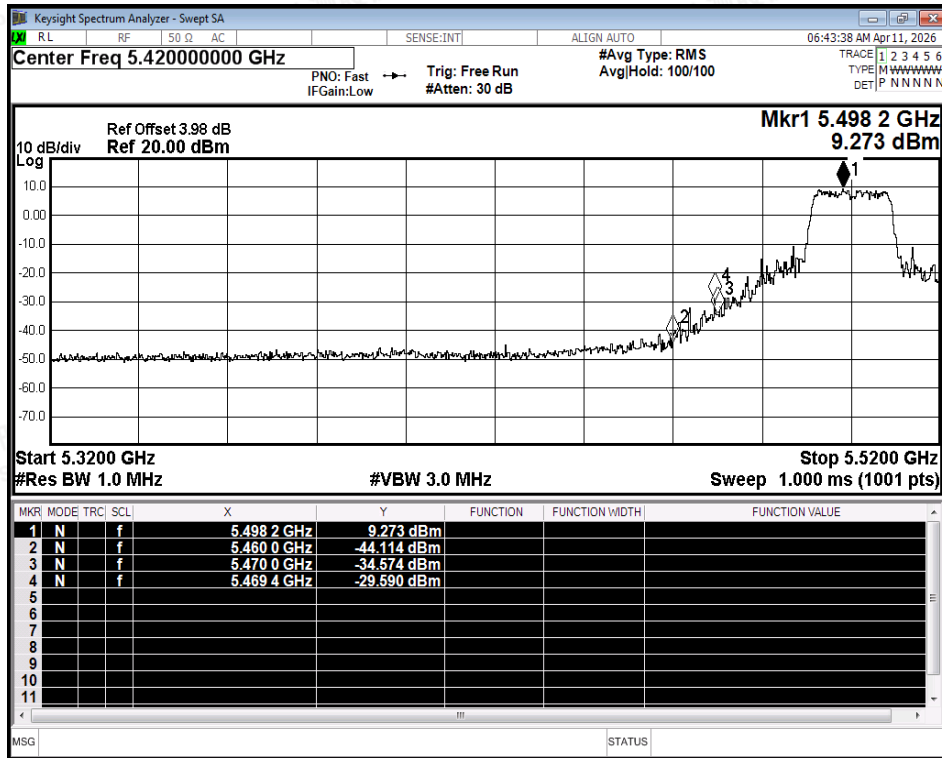


Restrict Band NVNT a 5700MHz Ant1 Peak

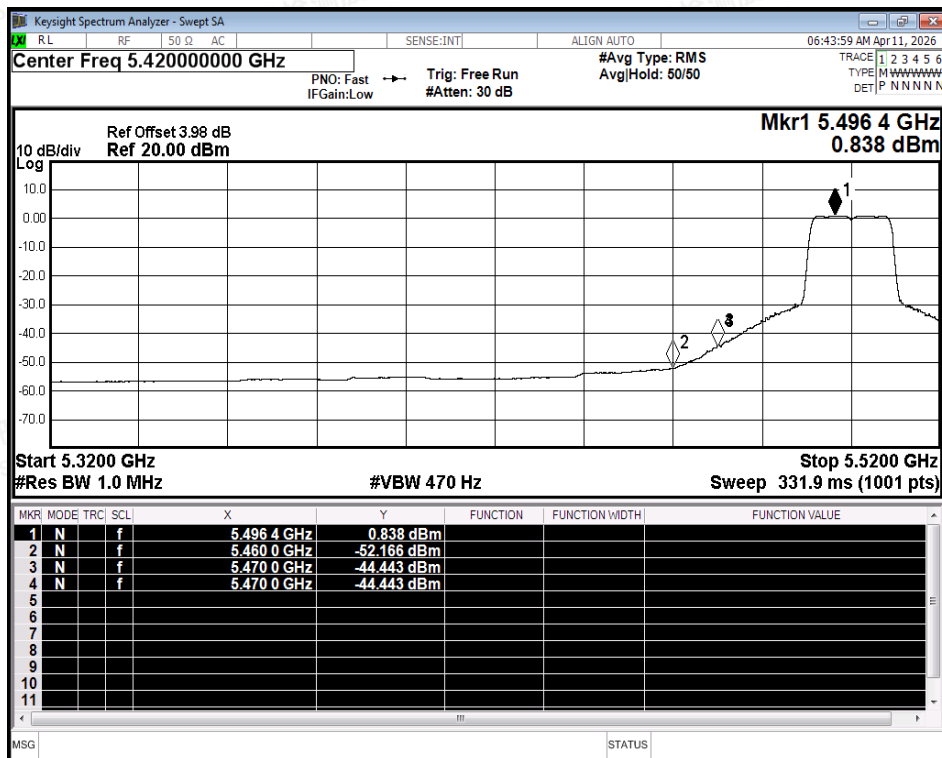


Restrict Band NVNT a 5700MHz Ant1 Average



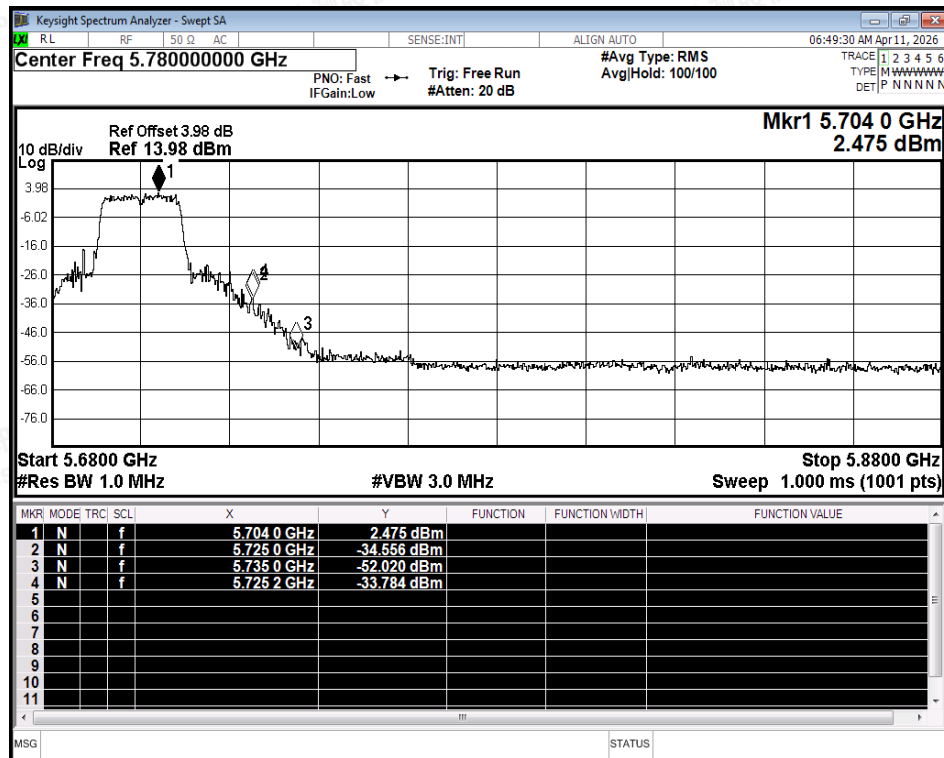


Restrict Band NVNT n20 5500MHz Ant1 Peak

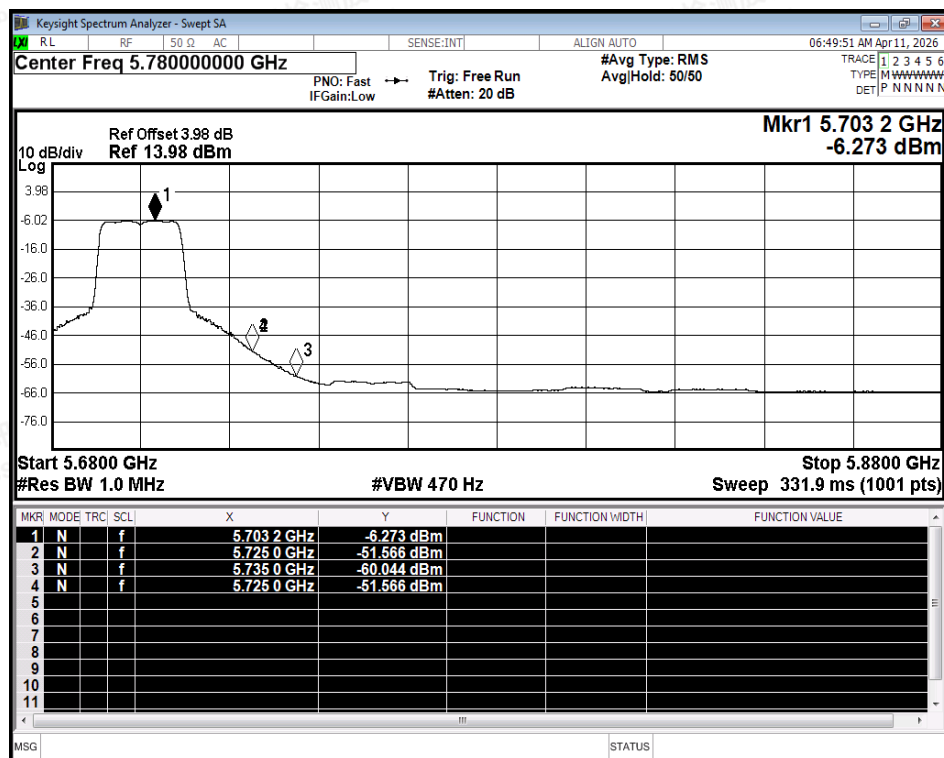


Restrict Band NVNT n20 5500MHz Ant1 Average



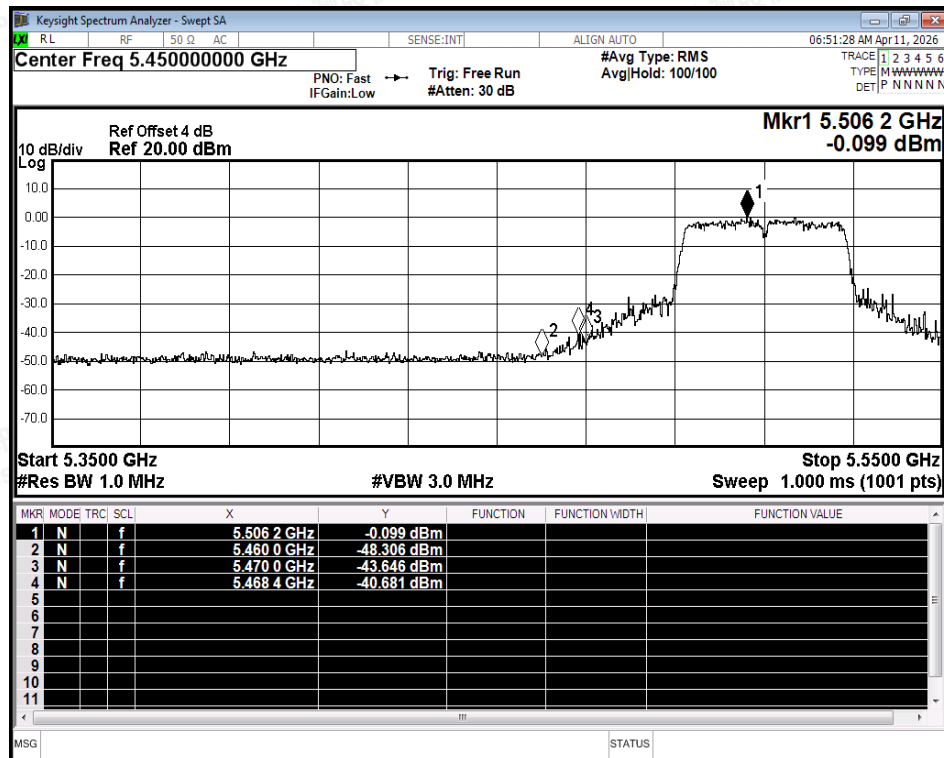


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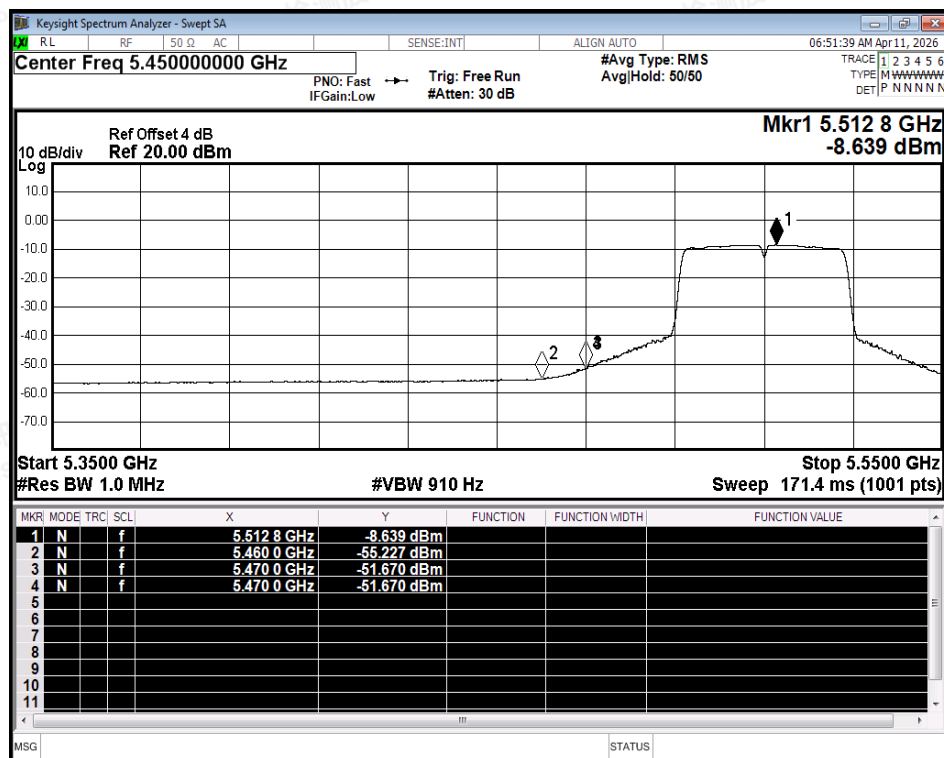


Restrict Band NVNT n20 5700MHz Ant1 Average



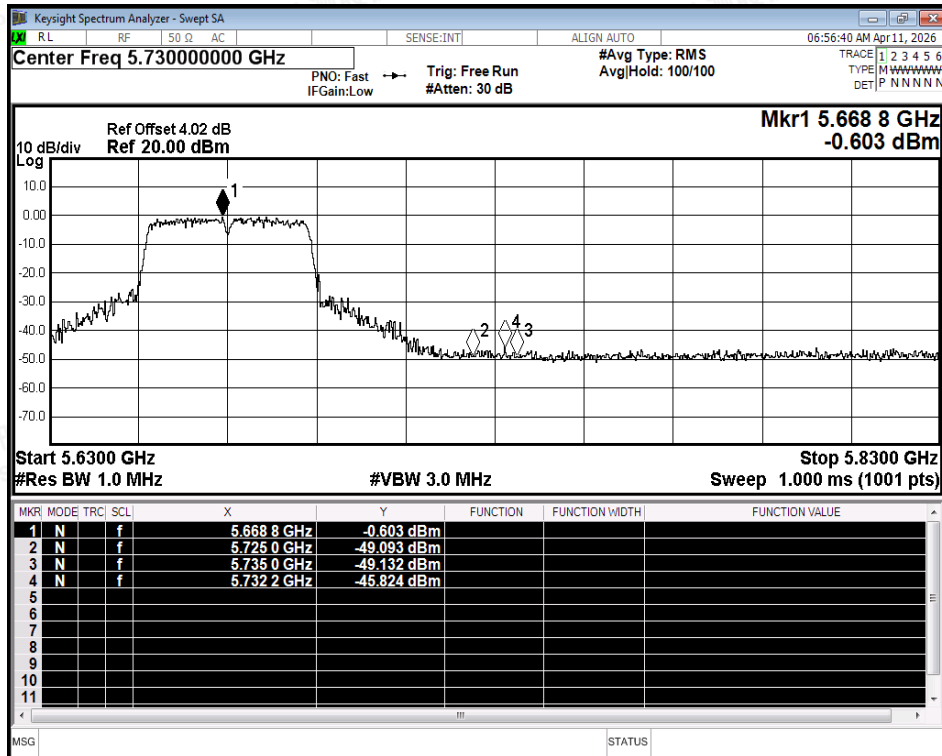


Restrict Band NVNT n40 5510MHz Ant1 Peak

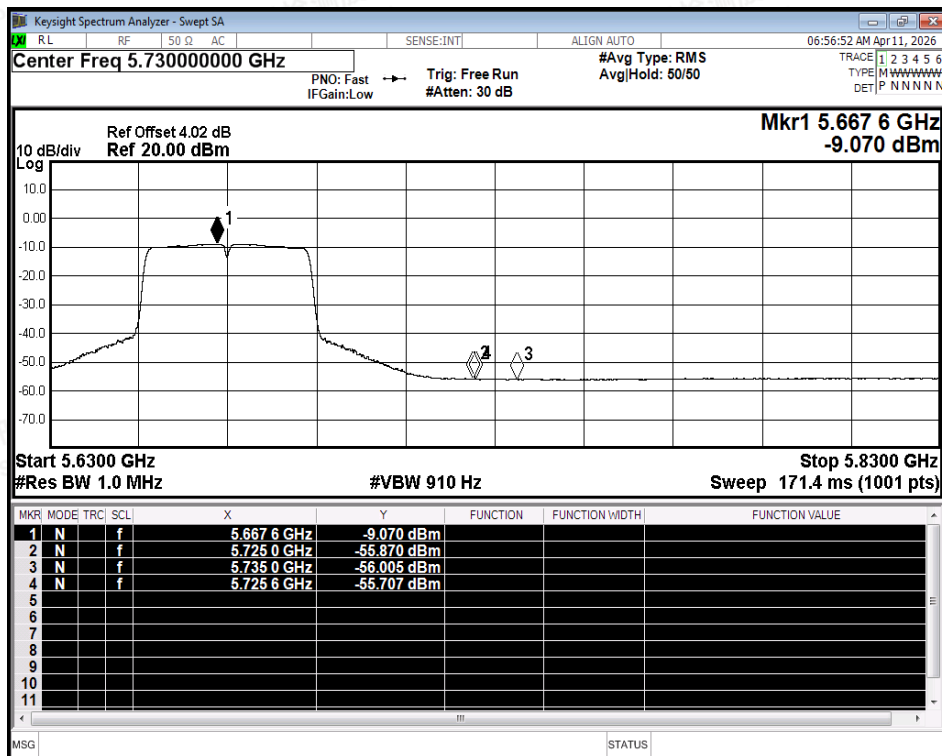


Restrict Band NVNT n40 5510MHz Ant1 Average





Restrict Band NVNT n40 5670MHz Ant1 Peak



Restrict Band NVNT n40 5670MHz Ant1 Average



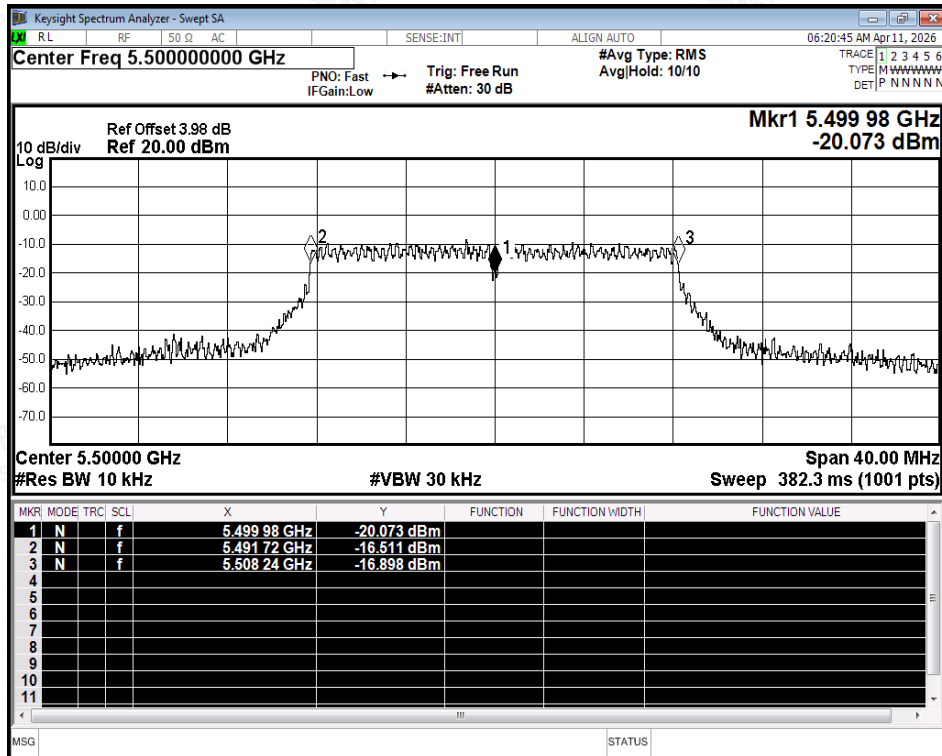


F.5 Frequency Stability

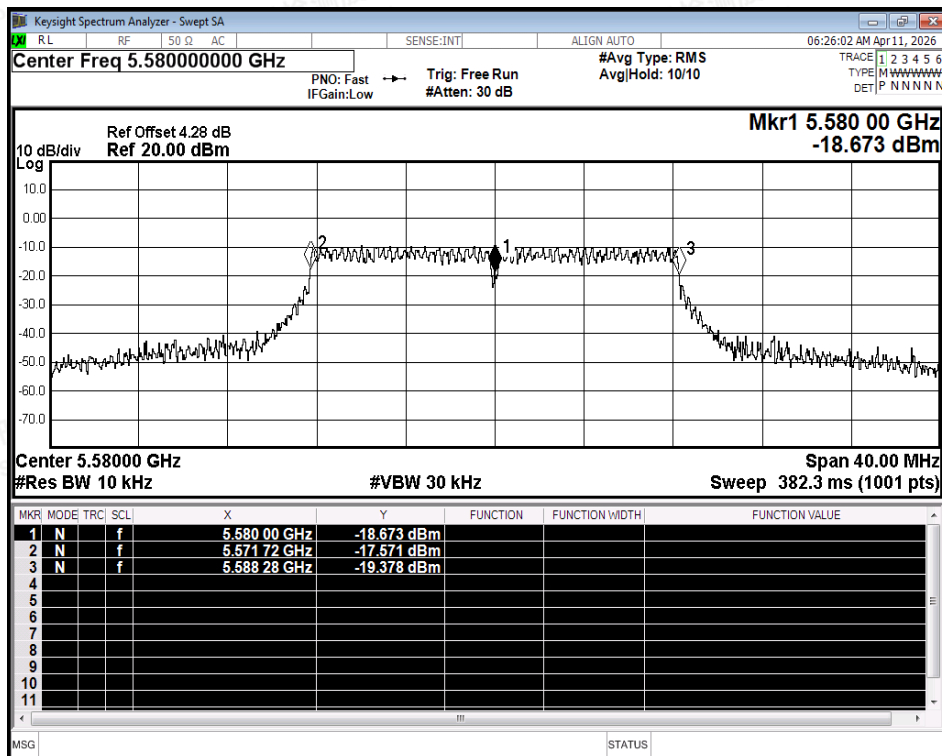
Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	a	5500	Ant1	5499.98	-20000	-3.64	25	Pass
NVNT	a	5580	Ant1	5580	0	0	25	Pass
NVNT	a	5700	Ant1	5700	0	0	25	Pass
NVNT	n20	5500	Ant1	5499.98	-20000	-3.64	25	Pass
NVNT	n20	5580	Ant1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



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Freq. Stability NVNT a 5500MHz Ant1



Freq. Stability NVNT a 5580MHz Ant1

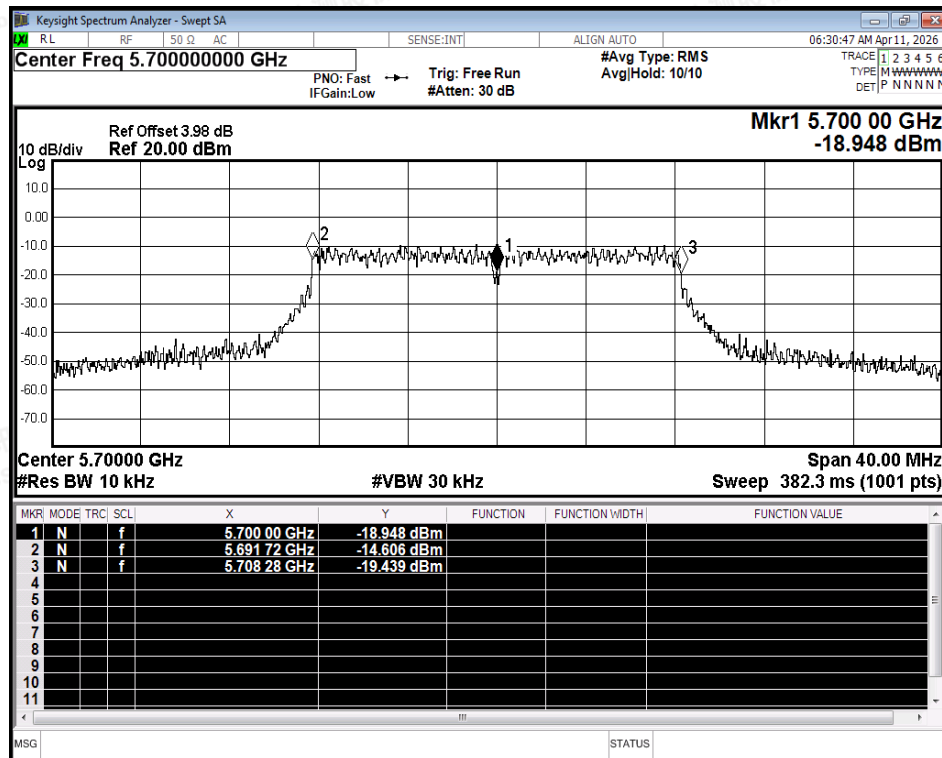


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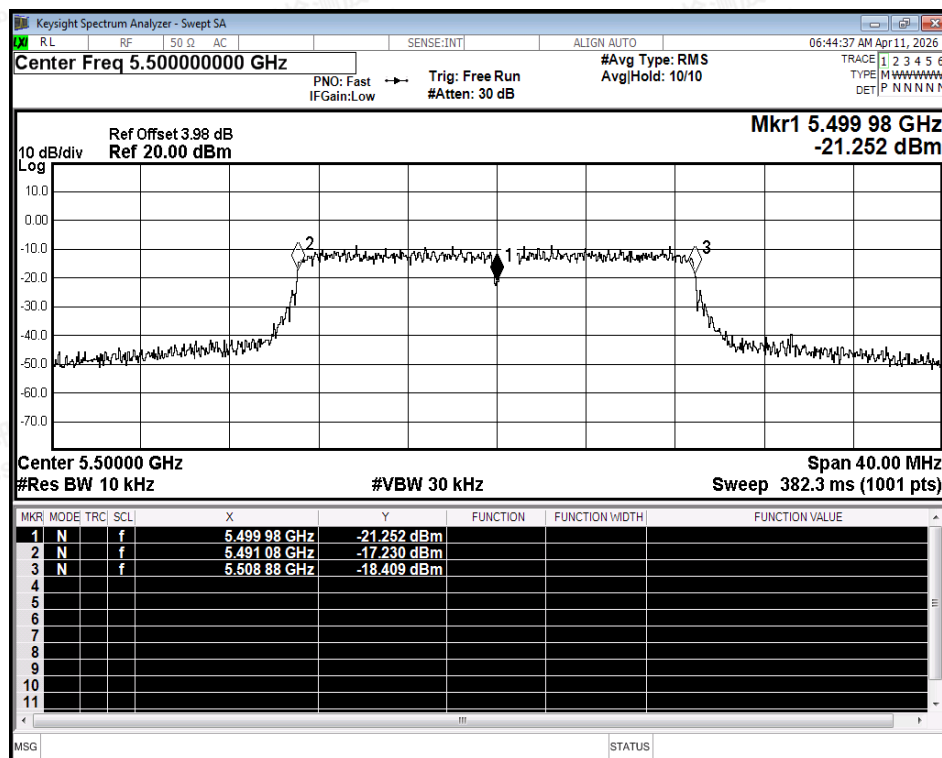
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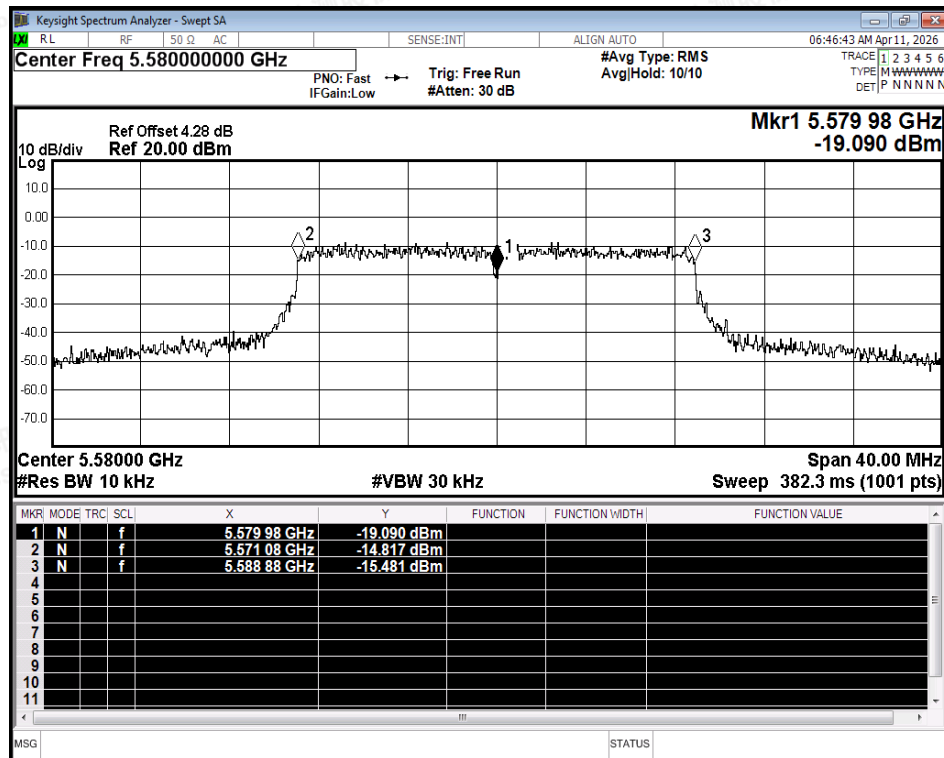


Freq. Stability NVNT a 5700MHz Ant1

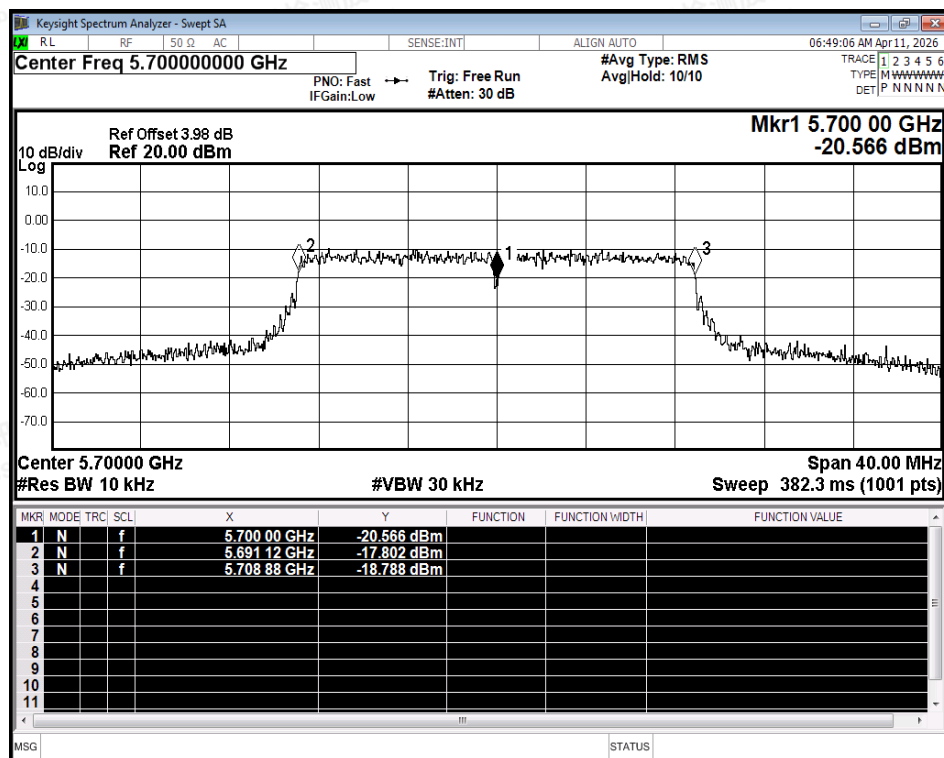


Freq. Stability NVNT n20 5500MHz Ant1



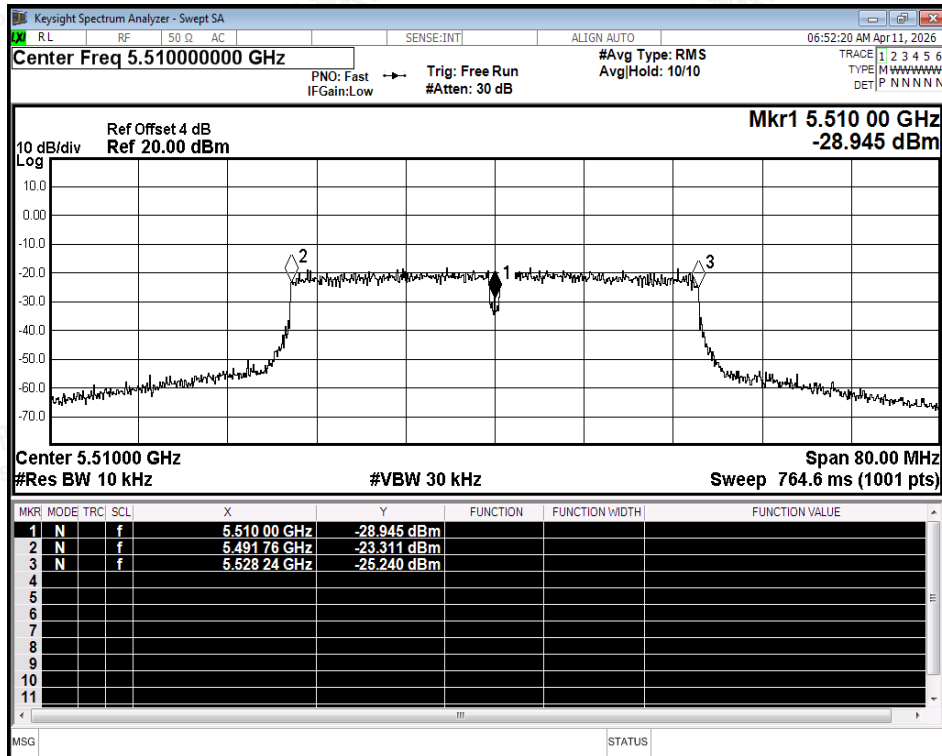


Freq. Stability NVNT n20 5580MHz Ant1

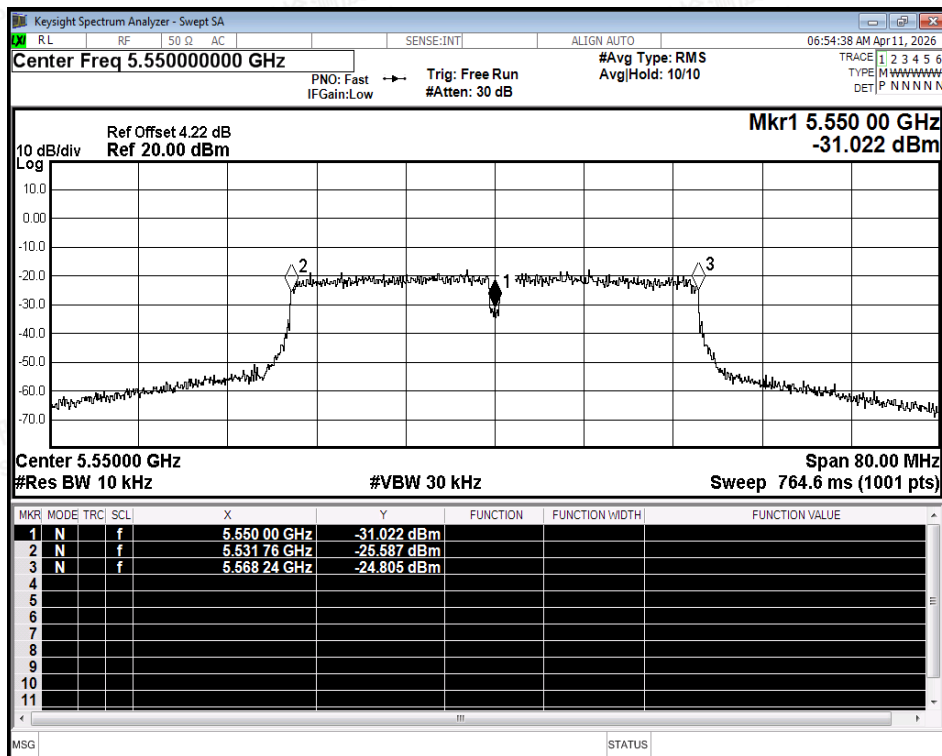


Freq. Stability NVNT n20 5700MHz Ant1



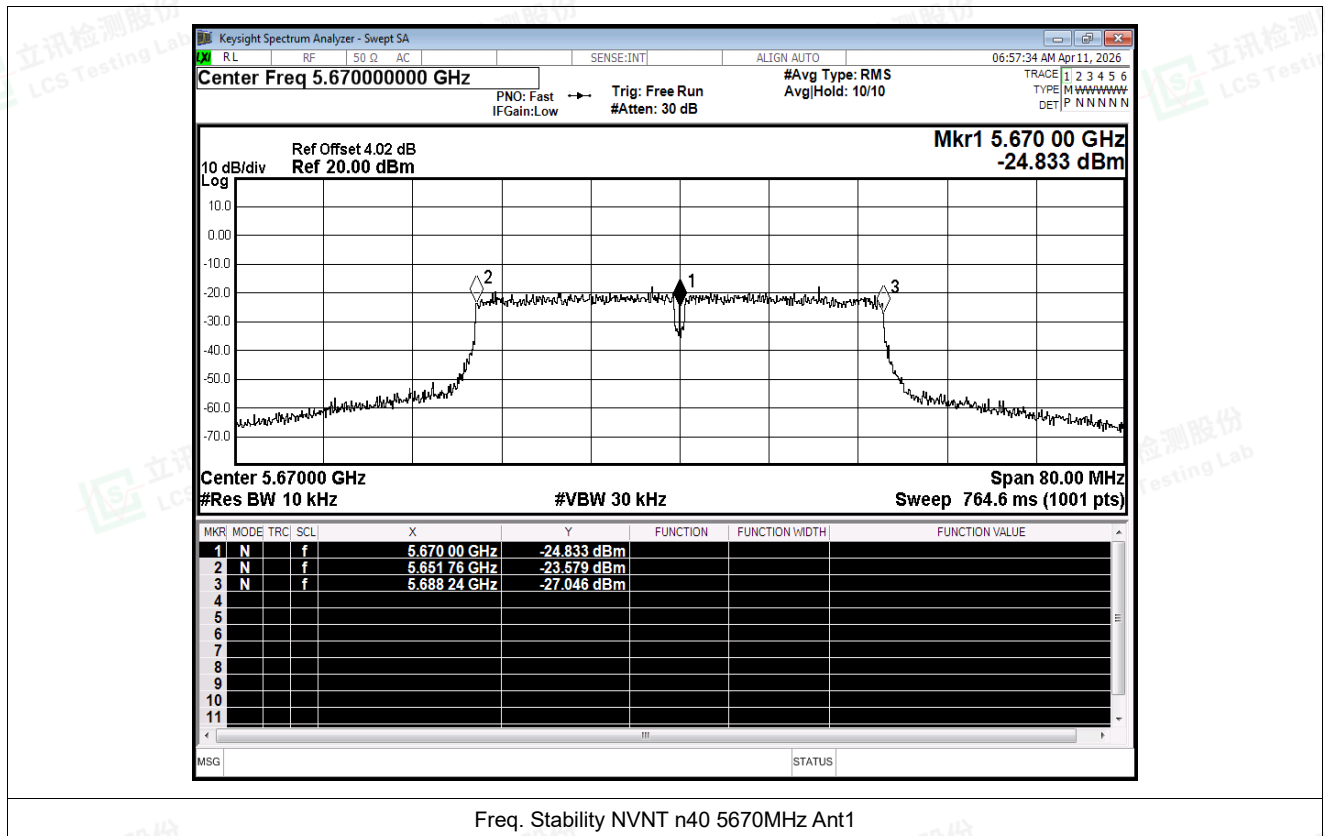


Freq. Stability NVNT n40 5510MHz Ant1



Freq. Stability NVNT n40 5550MHz Ant1







F.6 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5500	Ant1	97.83	0.1	0.37
NVNT	a	5580	Ant1	97.83	0.1	0.37
NVNT	a	5700	Ant1	97.46	0.11	0.37
NVNT	n20	5500	Ant1	97.41	0.11	0.44
NVNT	n20	5580	Ant1	97	0.13	0.44
NVNT	n20	5700	Ant1	97.42	0.11	0.44
NVNT	n40	5510	Ant1	94.87	0.23	0.9
NVNT	n40	5550	Ant1	94.02	0.27	0.91
NVNT	n40	5670	Ant1	94.87	0.23	0.9

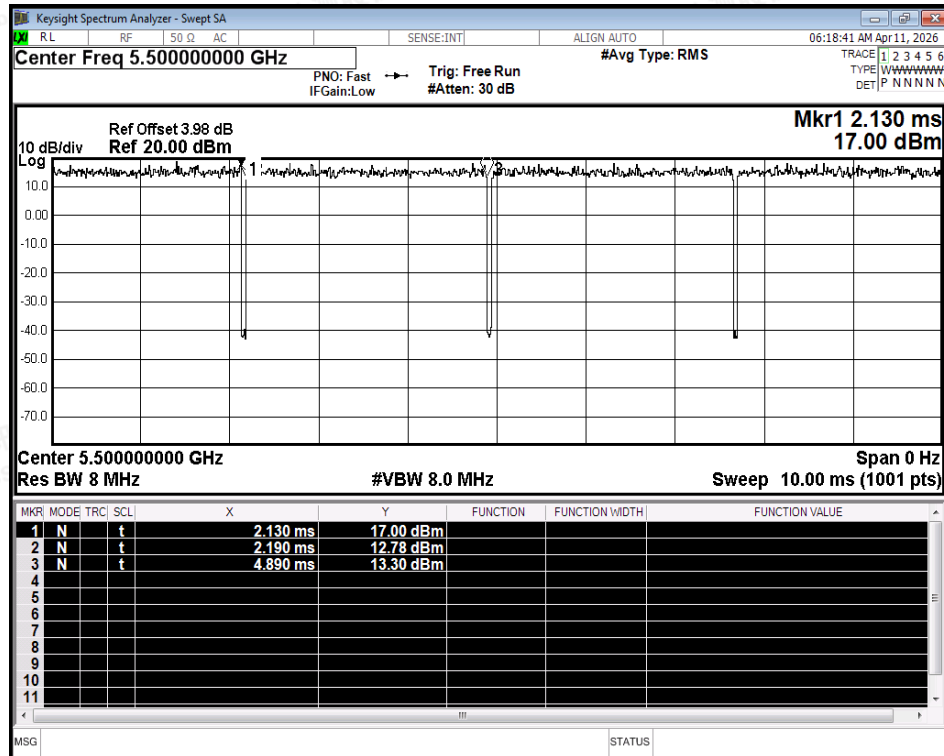


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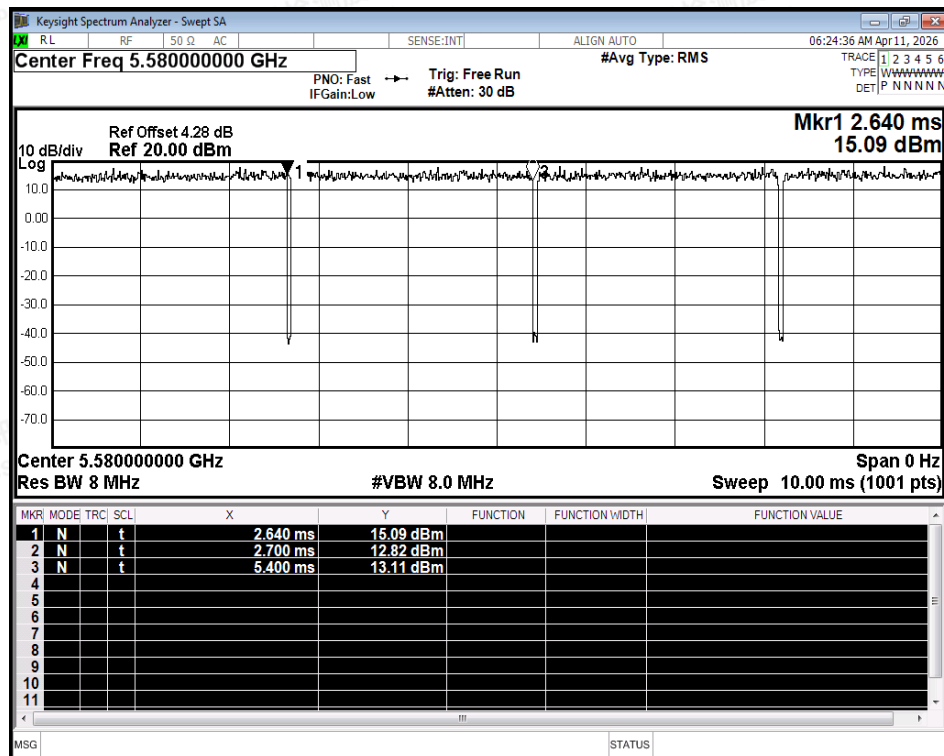
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Duty Cycle NVNT a 5500MHz Ant1



Duty Cycle NVNT a 5580MHz Ant1

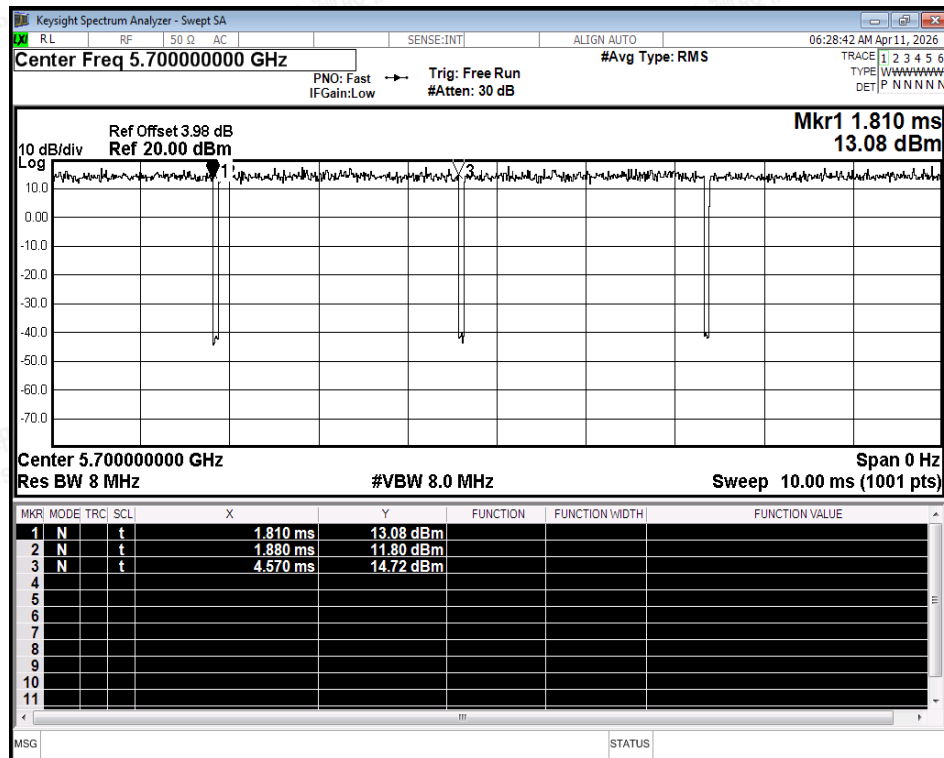


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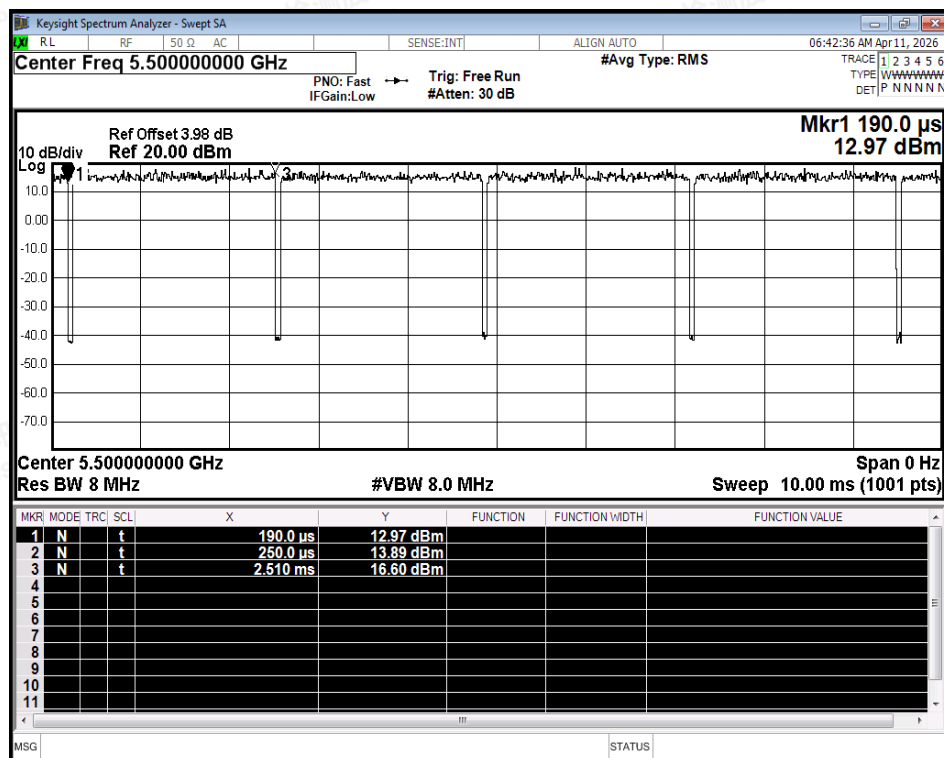
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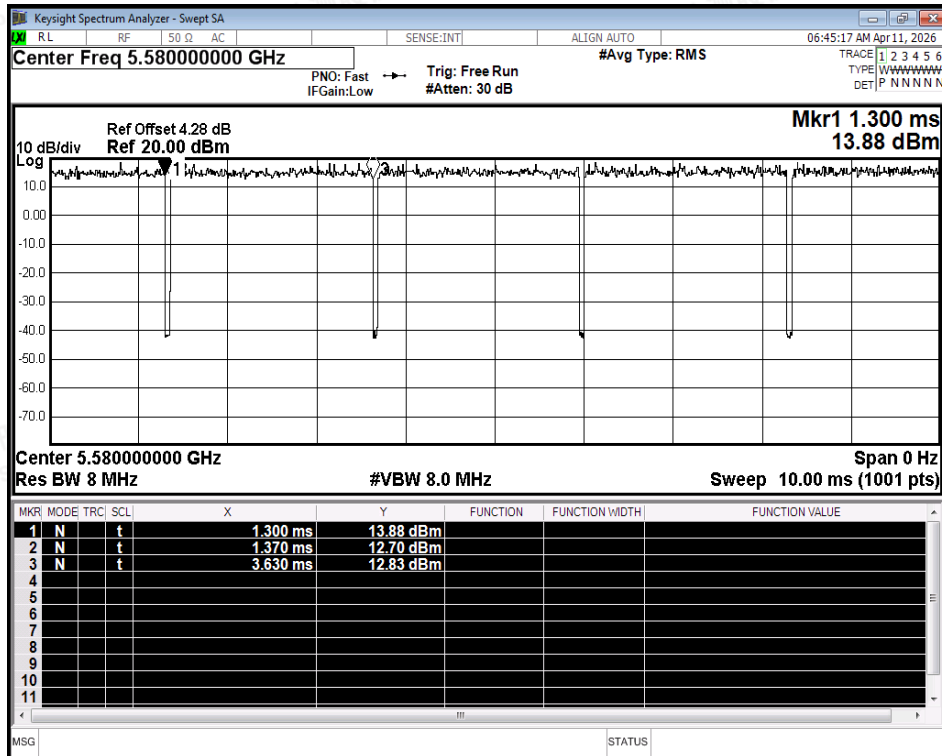


Duty Cycle NVNT a 5700MHz Ant1

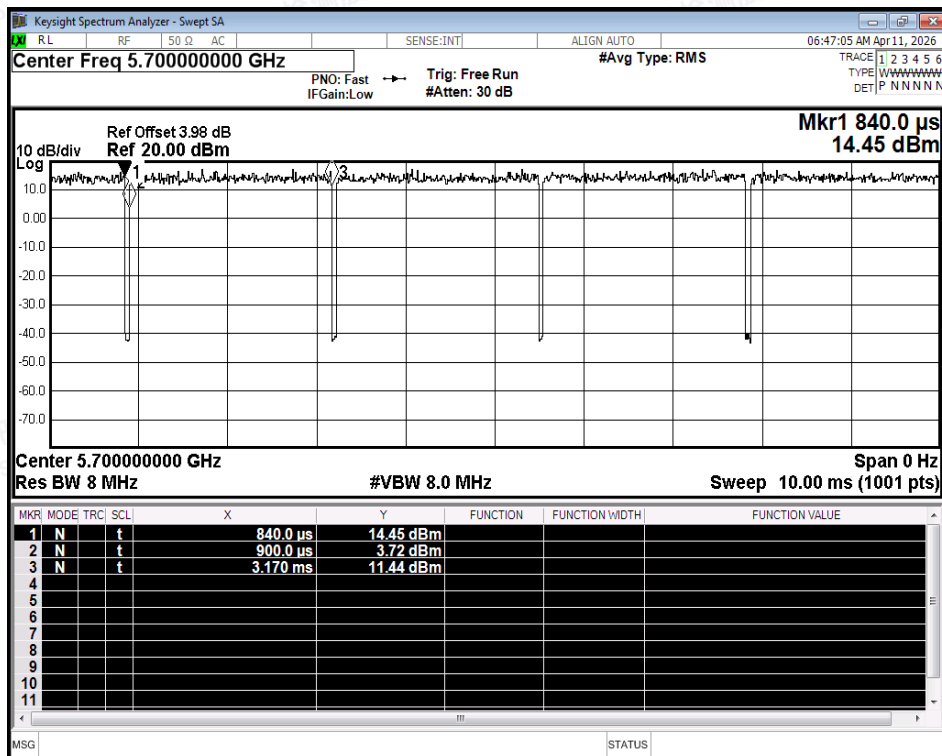


Duty Cycle NVNT n20 5500MHz Ant1



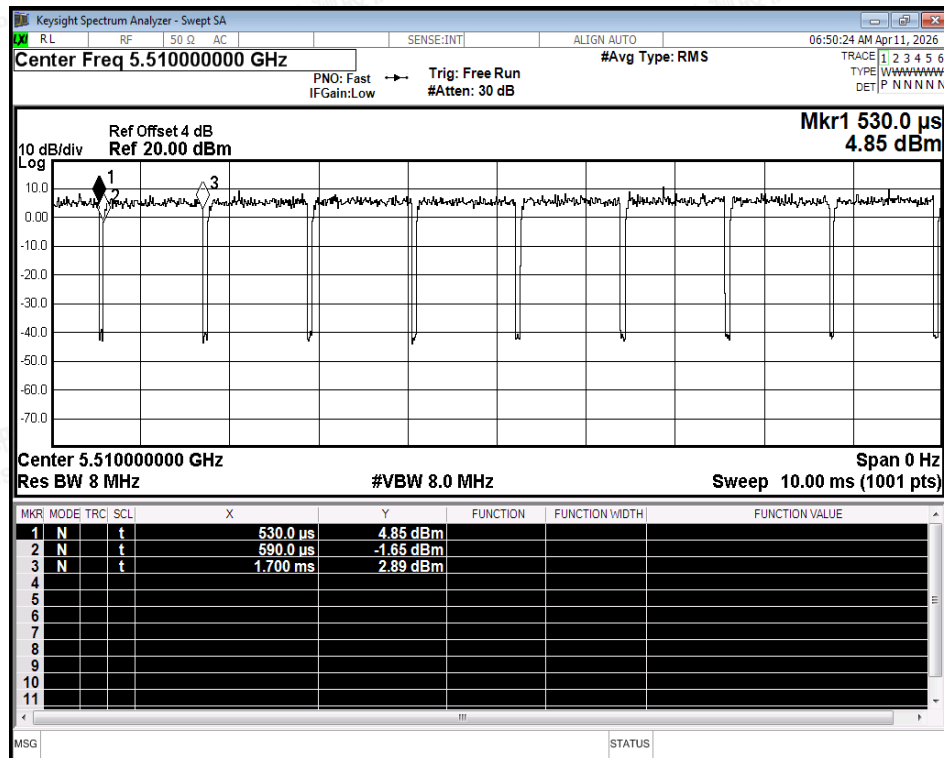


Duty Cycle NVNT n20 5580MHz Ant1

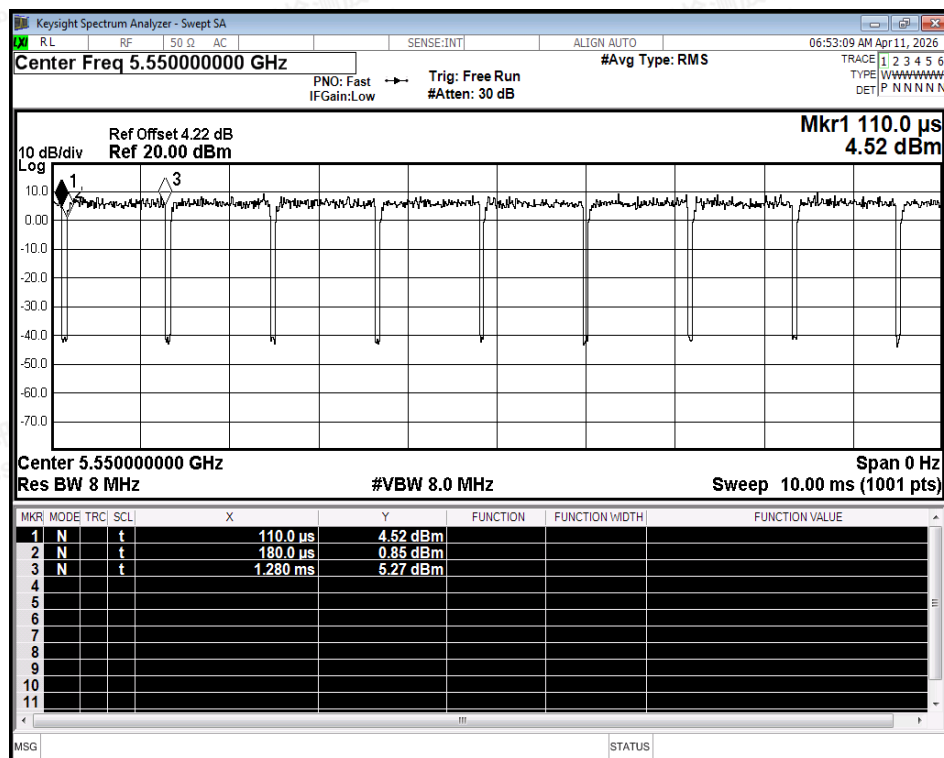


Duty Cycle NVNT n20 5700MHz Ant1





Duty Cycle NVNT n40 5510MHz Ant1



Duty Cycle NVNT n40 5550MHz Ant1



