

Appendix E

RF Test Data for 5.5GWIFI(Conducted Measurement)

Product Name: GNSS Receiver

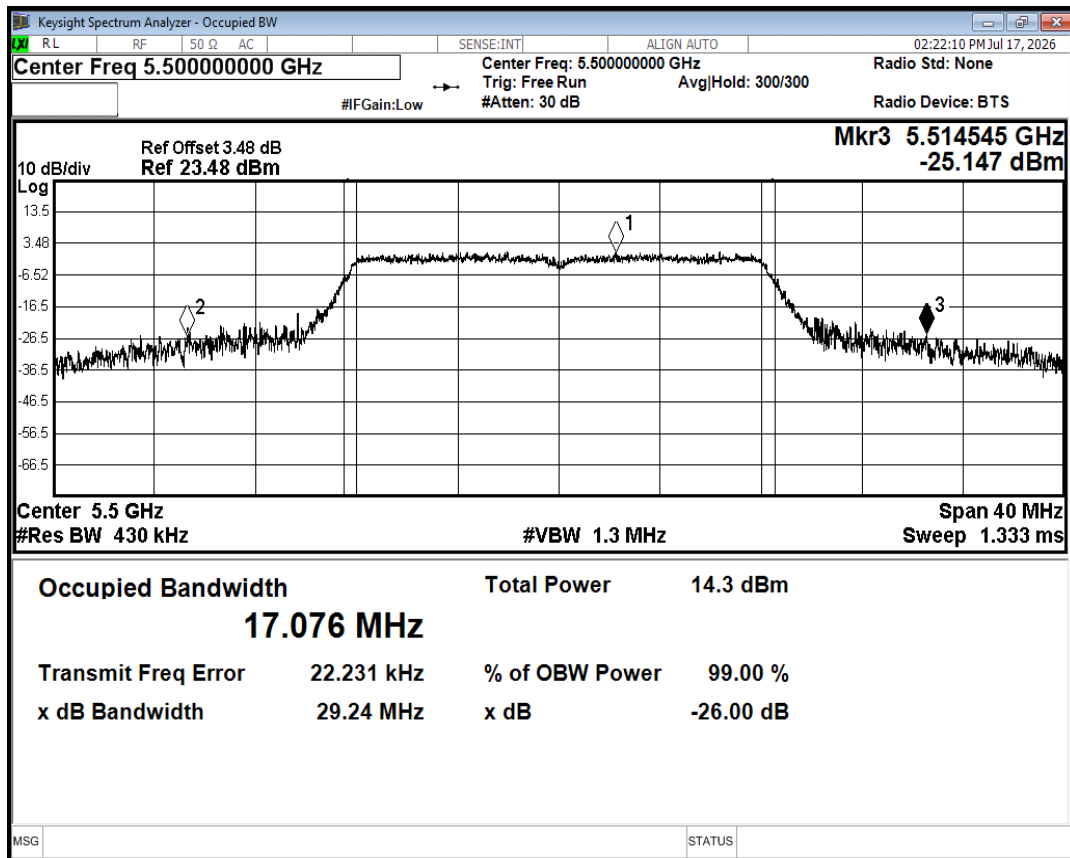
Test Model: Horus

Environmental Conditions

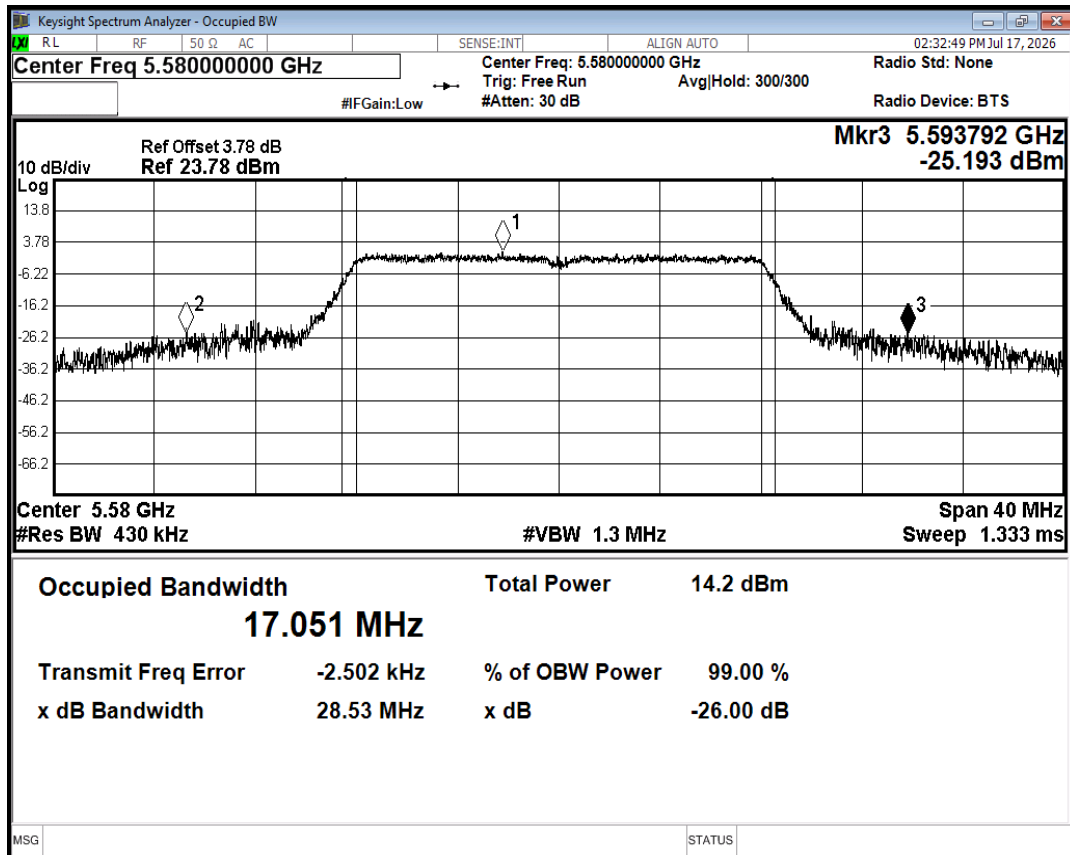
Temperature:	24.6°C
Relative Humidity:	53.8%
ATM Pressure:	100.0 kPa
Test Engineer:	Zhang hai
Supervised by:	Fengliu Tang

E.1 -26dB Bandwidth

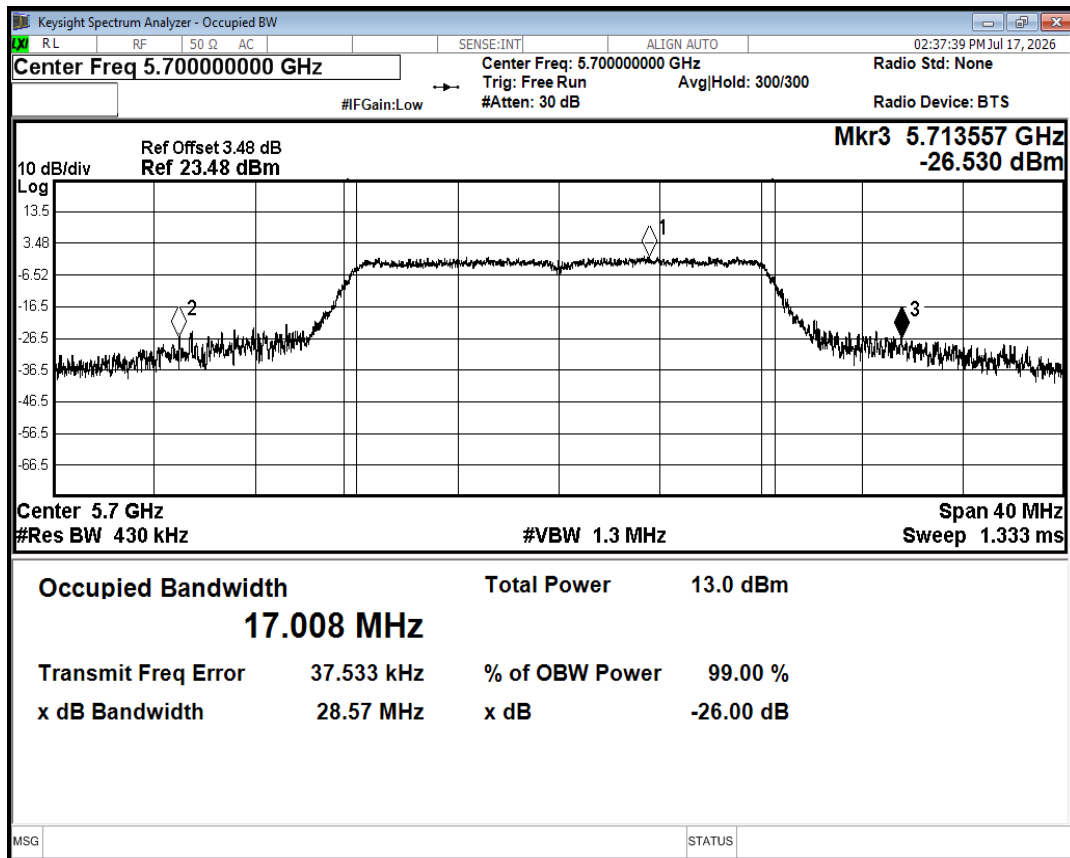
Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)
NVNT	a	5500	Ant1	29.24
NVNT	a	5580	Ant1	28.53
NVNT	a	5700	Ant1	28.57
NVNT	n20	5500	Ant1	32.87
NVNT	n20	5580	Ant1	32.89
NVNT	n20	5700	Ant1	32.34
NVNT	n40	5510	Ant1	52.26
NVNT	n40	5550	Ant1	53.67
NVNT	n40	5670	Ant1	52.79
NVNT	ac20	5500	Ant1	31.68
NVNT	ac20	5580	Ant1	31.07
NVNT	ac20	5700	Ant1	32.21
NVNT	ac40	5510	Ant1	54.55
NVNT	ac40	5550	Ant1	51.92
NVNT	ac40	5670	Ant1	51.43
NVNT	ac80	5530	Ant1	91.6
NVNT	ac80	5610	Ant1	86.65



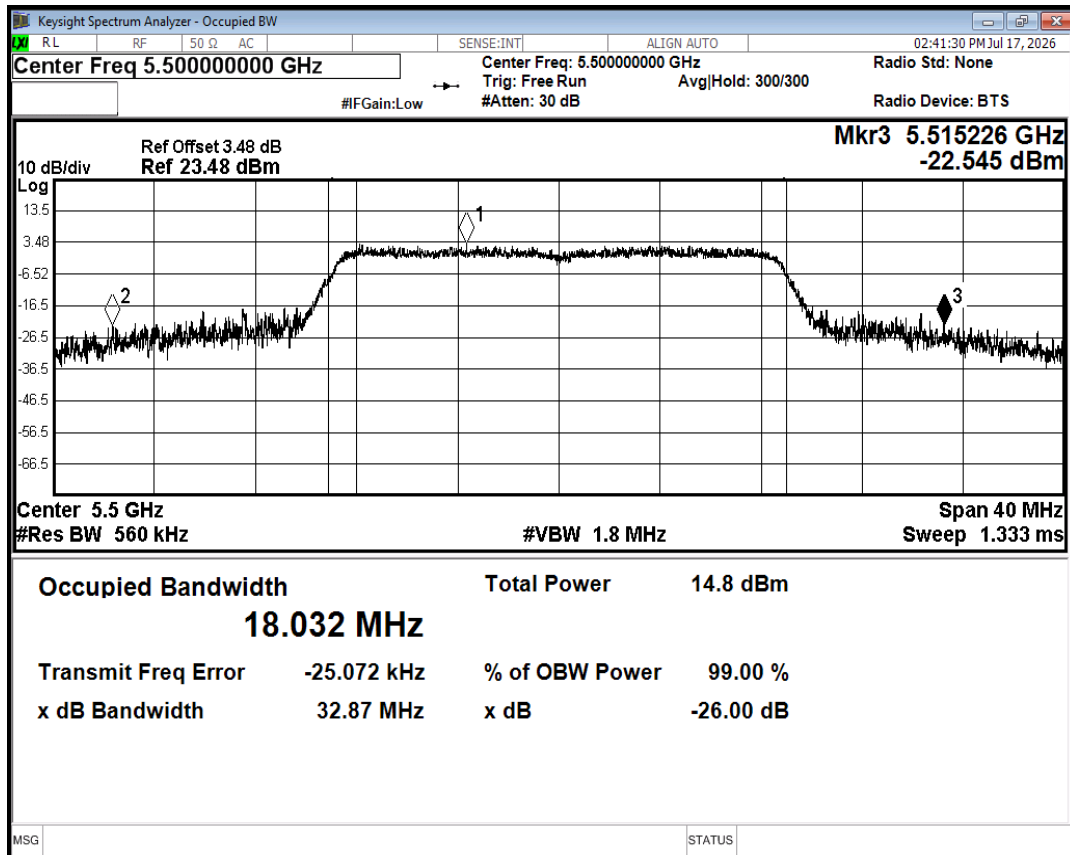
-26dB Bandwidth NVNT a 5500MHz Ant1



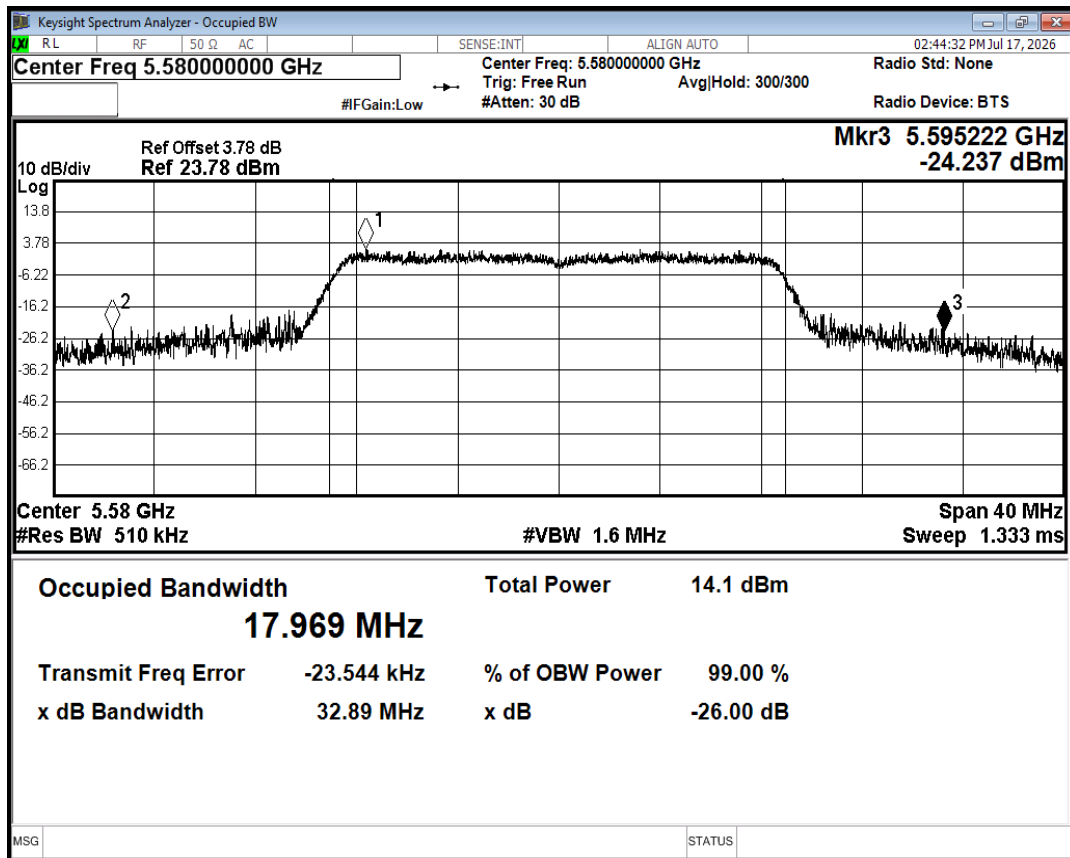
-26dB Bandwidth NVNT a 5580MHz Ant1



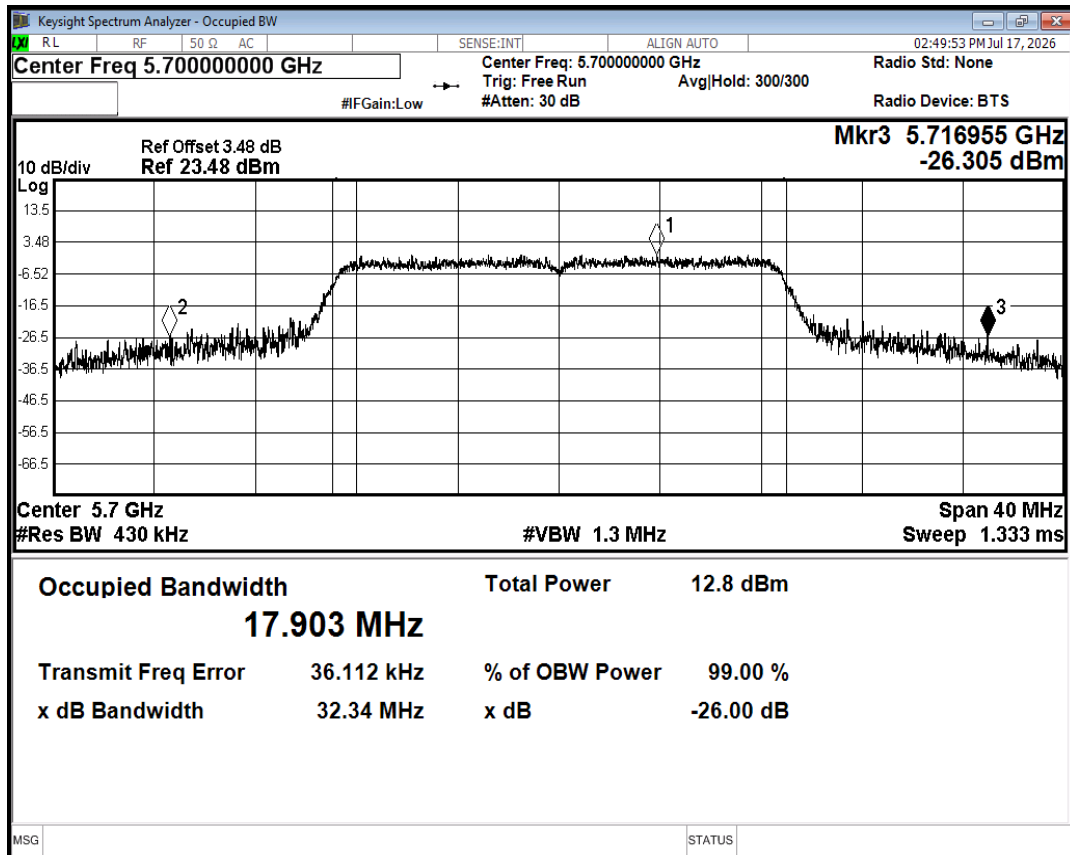
-26dB Bandwidth NVNT a 5700MHz Ant1



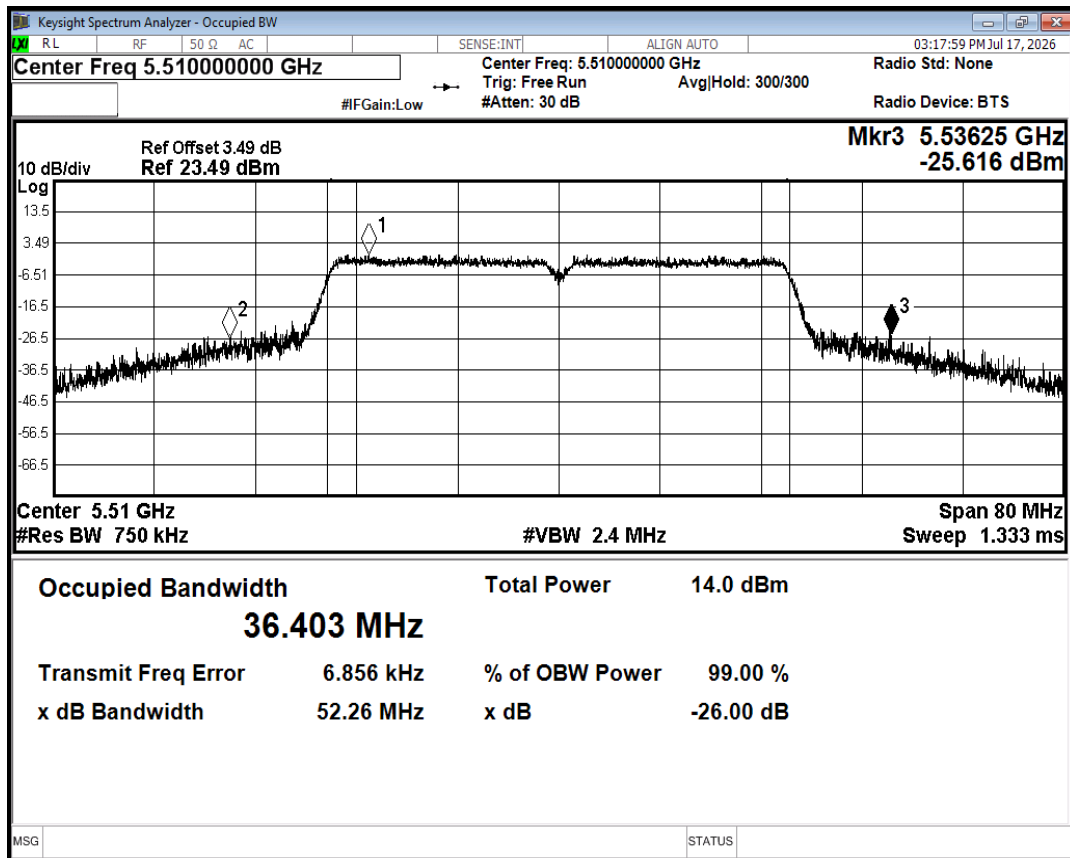
-26dB Bandwidth NVNT n20 5500MHz Ant1



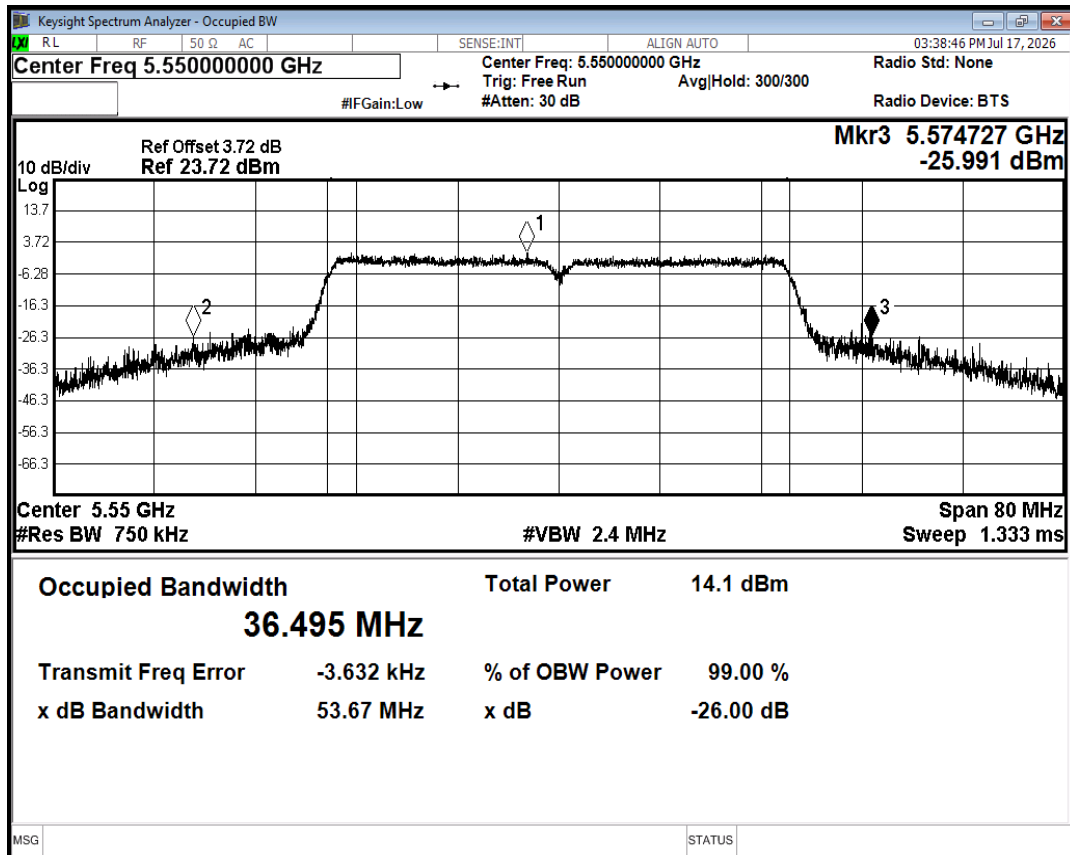
-26dB Bandwidth NVNT n20 5580MHz Ant1



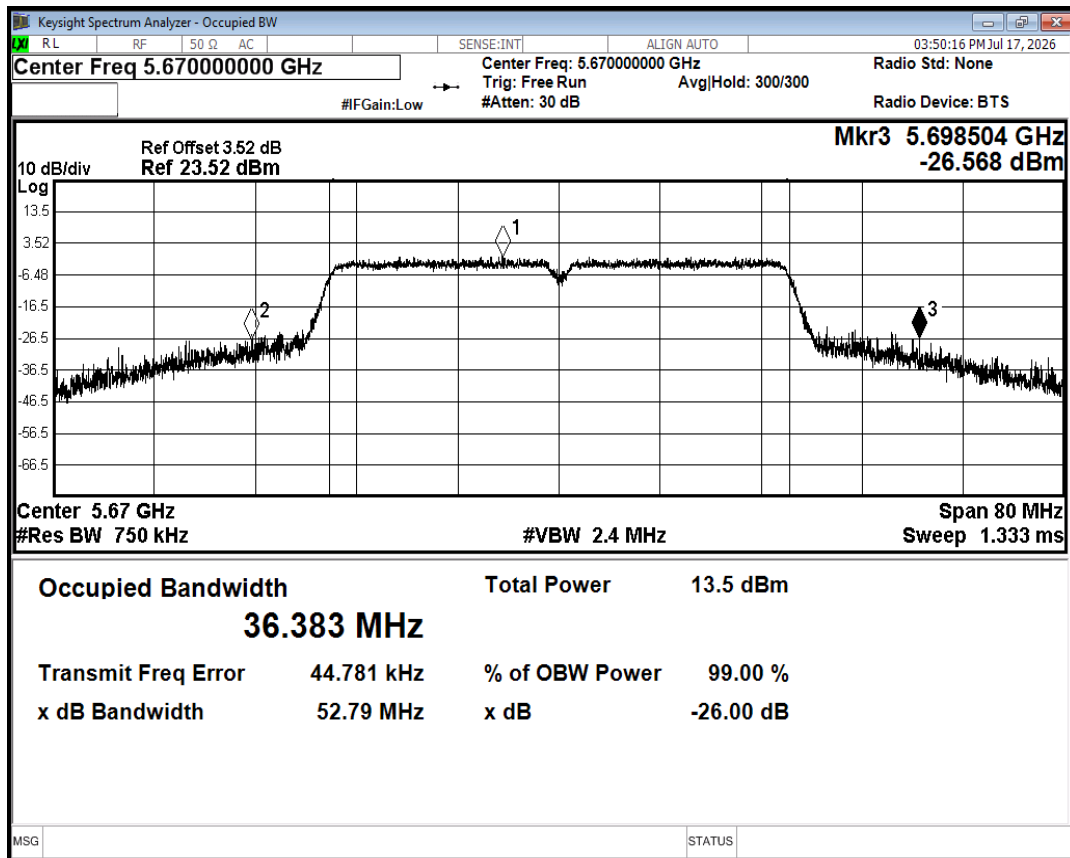
-26dB Bandwidth NVNT n20 5700MHz Ant1



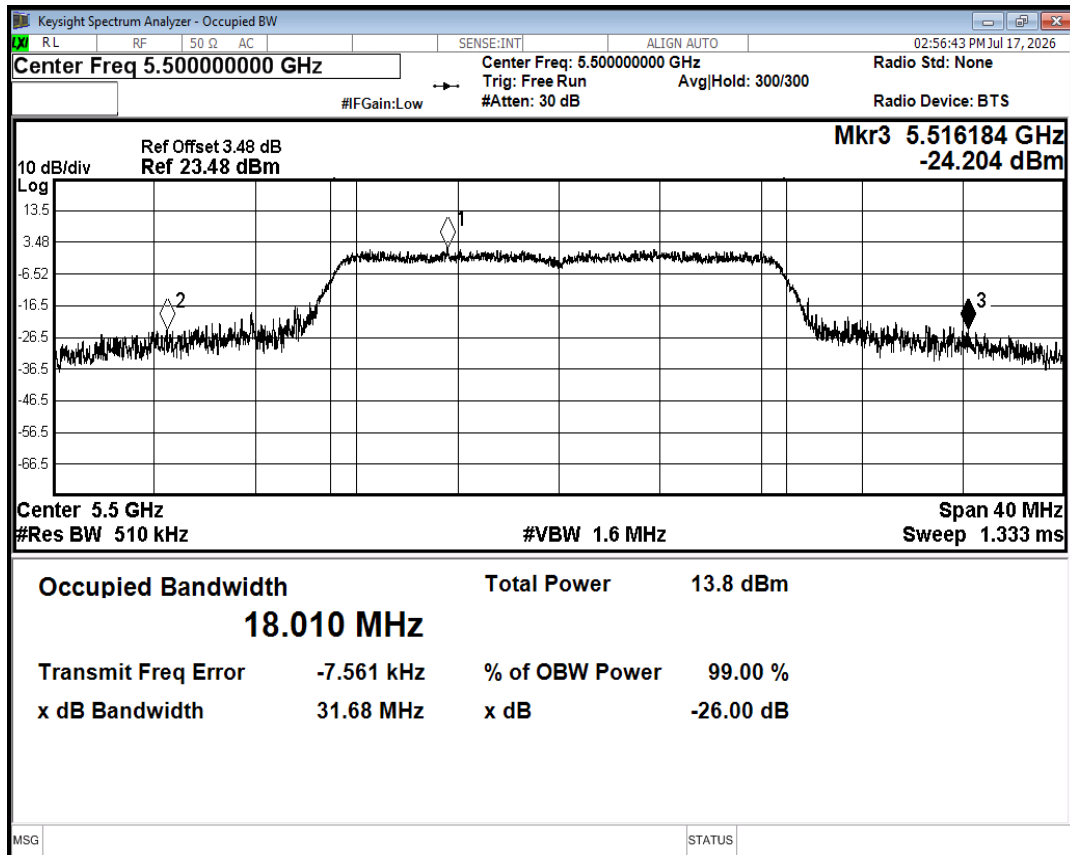
-26dB Bandwidth NVNT n40 5510MHz Ant1



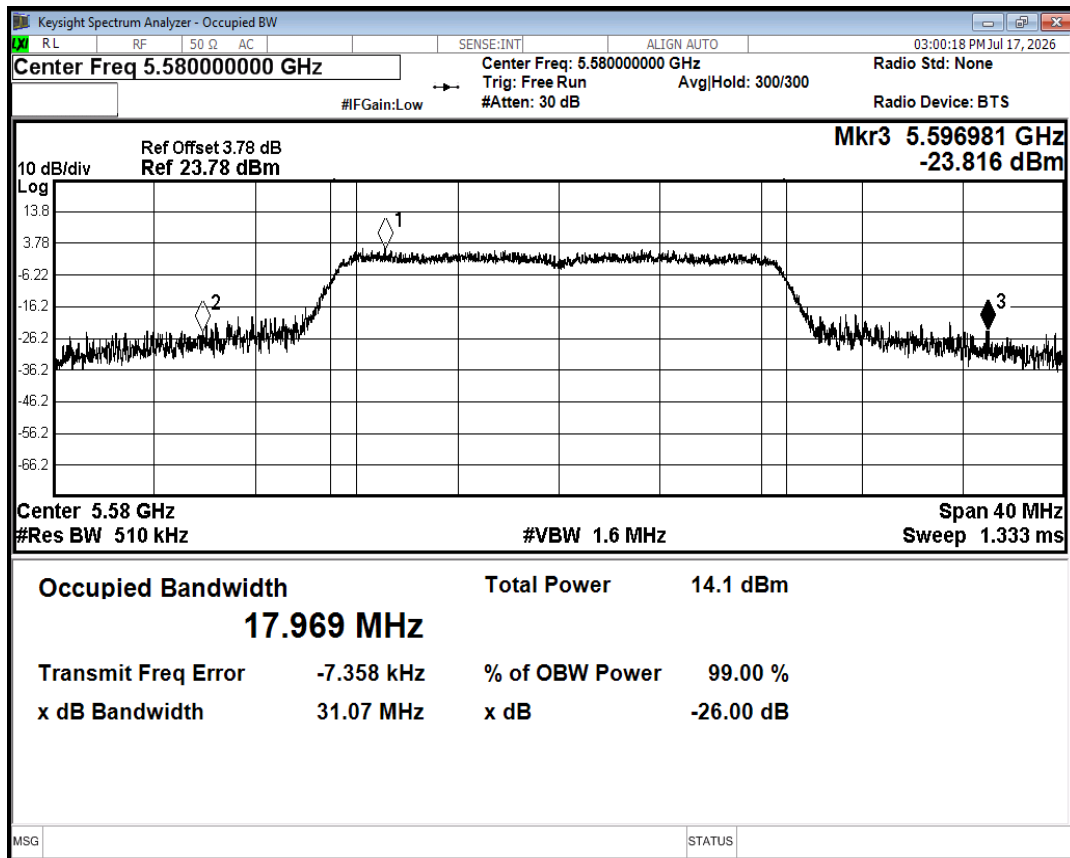
-26dB Bandwidth NVNT n40 5550MHz Ant1



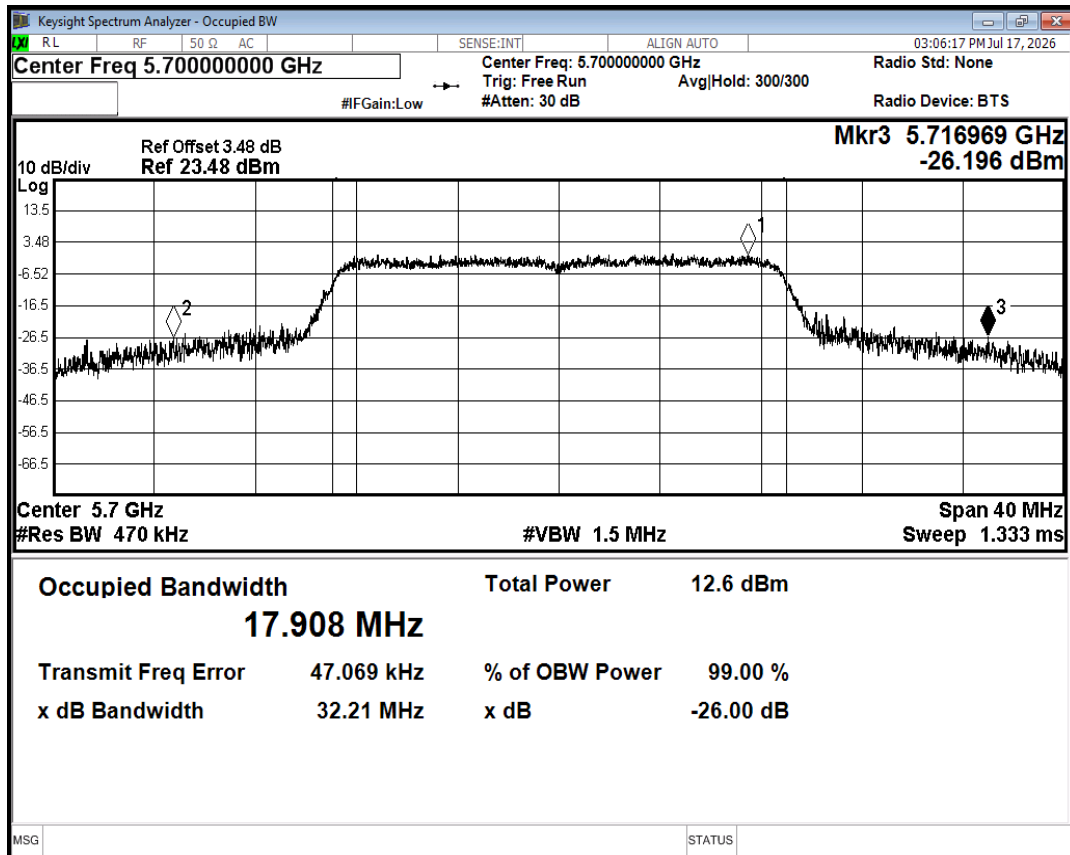
-26dB Bandwidth NVNT n40 5670MHz Ant1



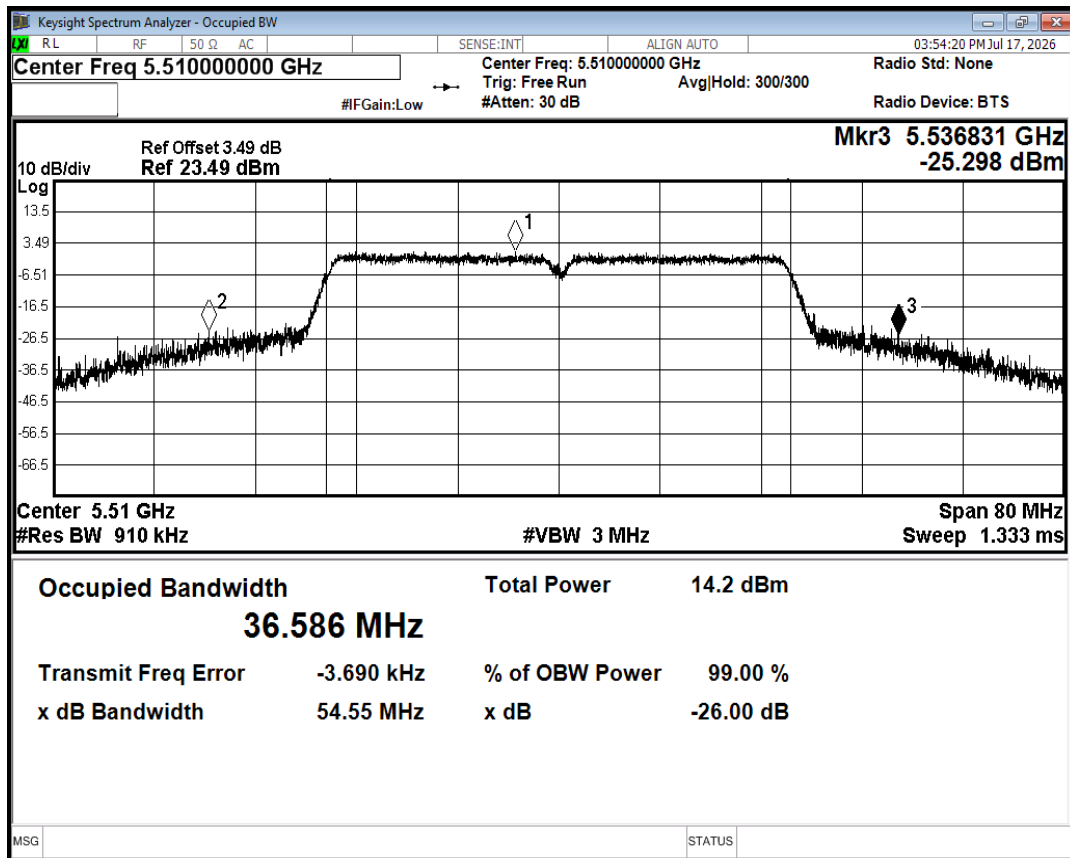
-26dB Bandwidth NVNT ac20 5500MHz Ant1



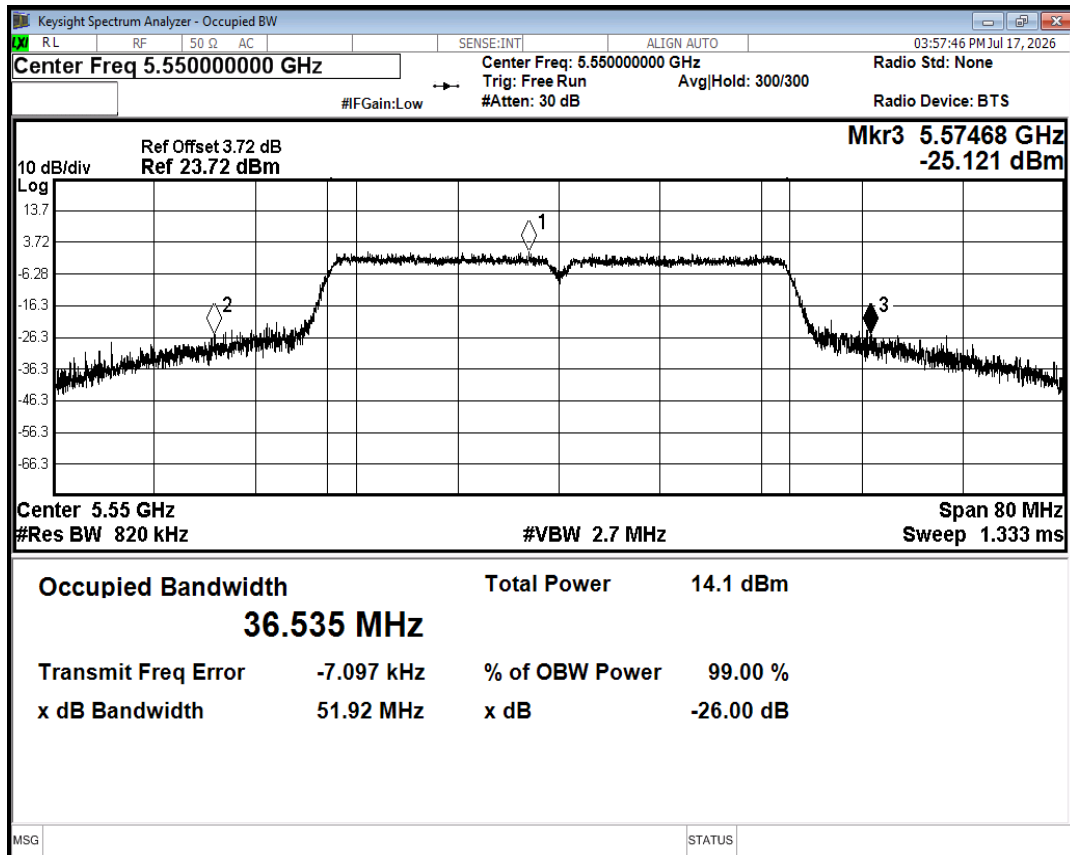
-26dB Bandwidth NVNT ac20 5580MHz Ant1



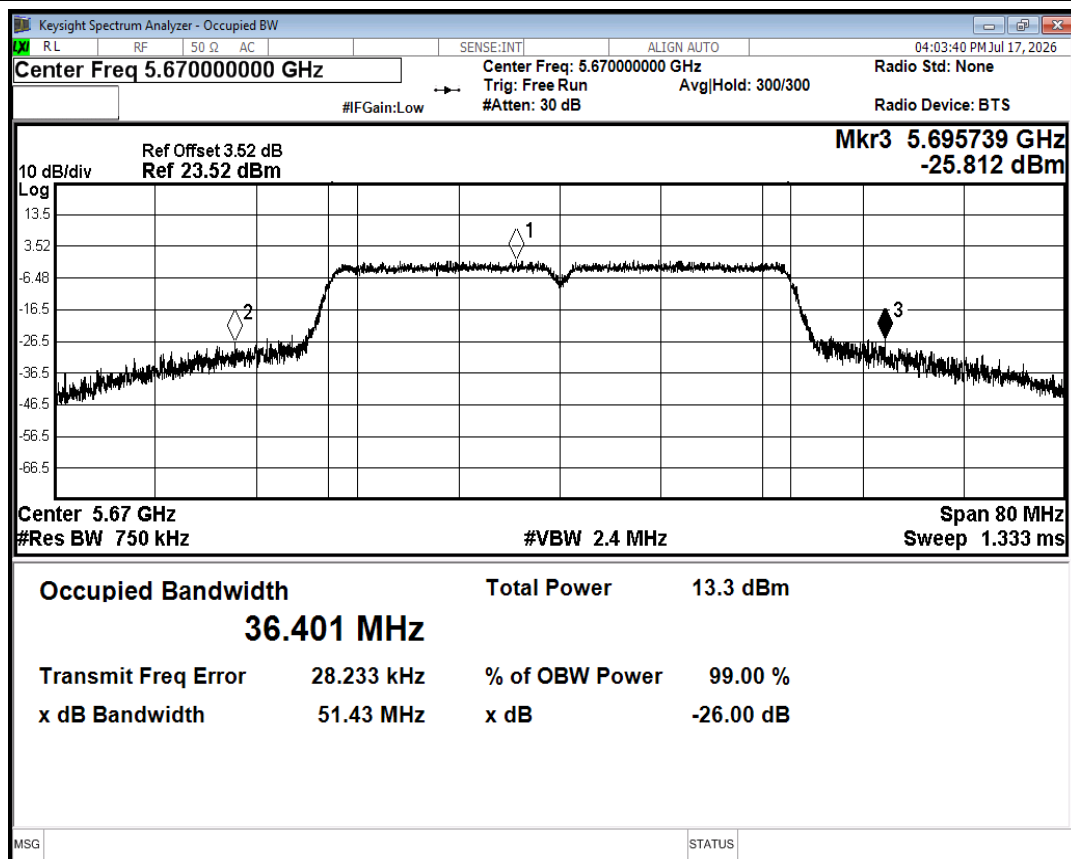
-26dB Bandwidth NVNT ac20 5700MHz Ant1



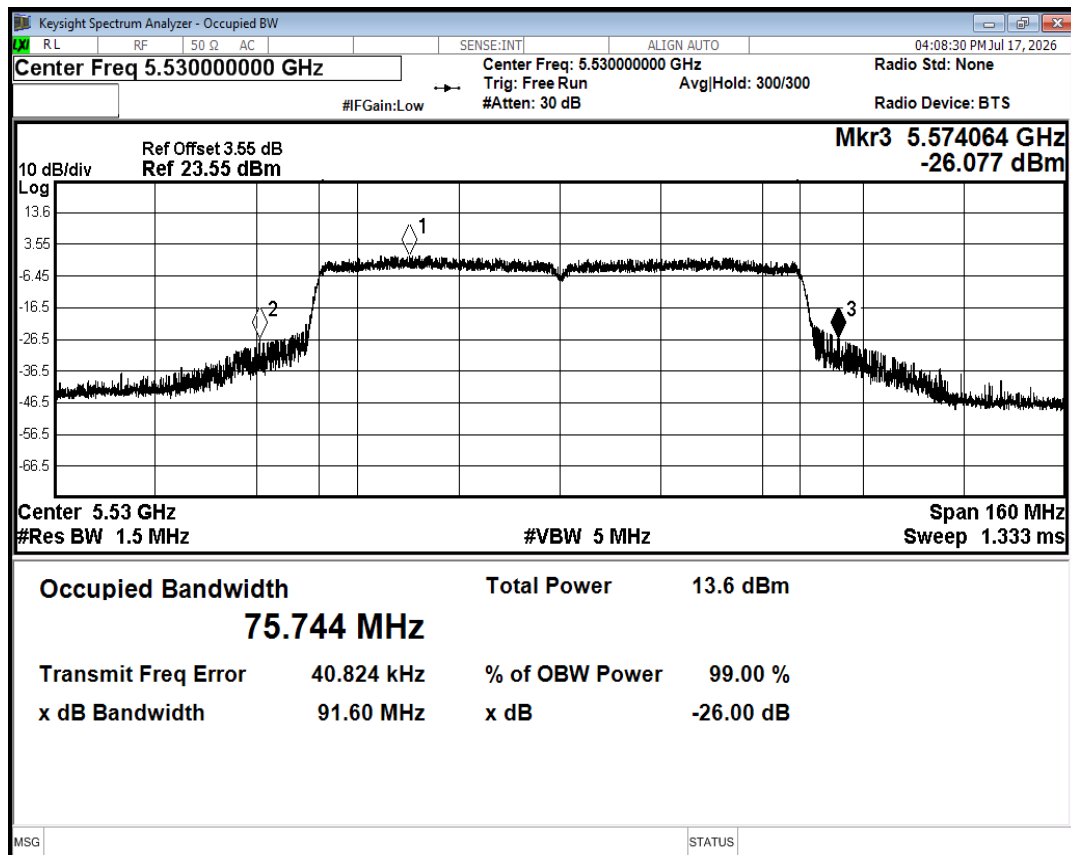
-26dB Bandwidth NVNT ac40 5510MHz Ant1



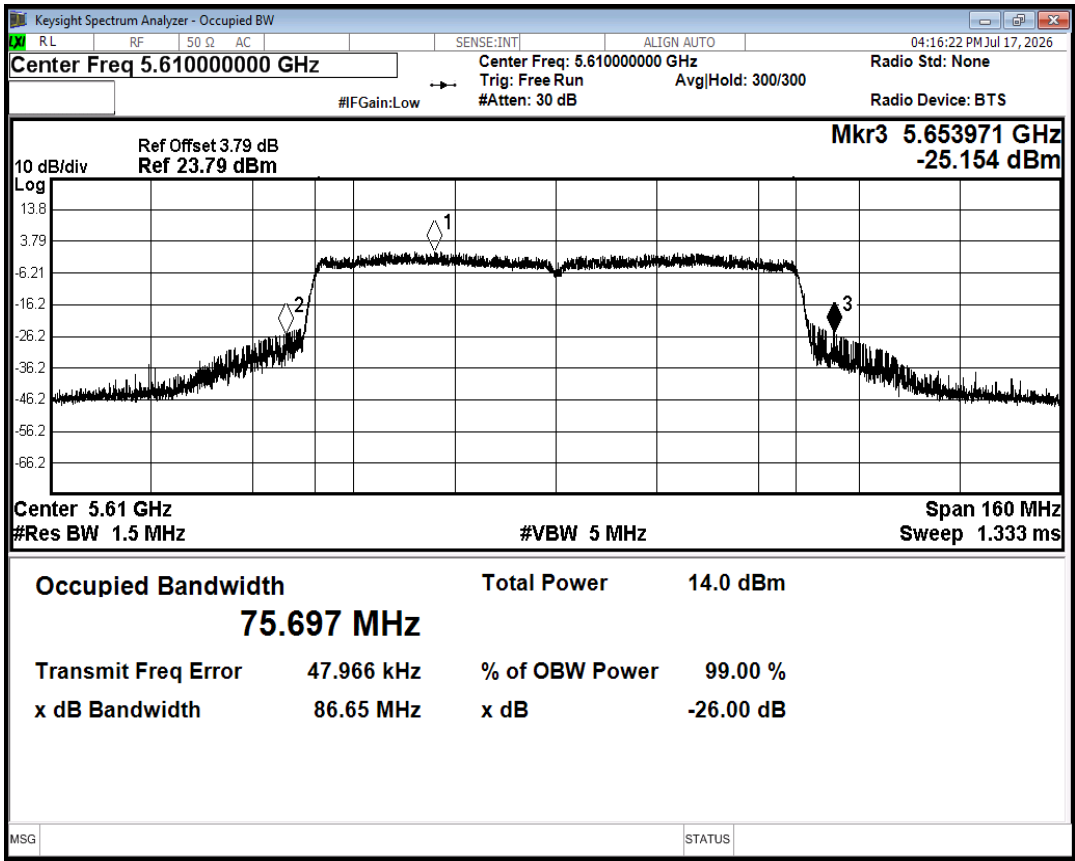
-26dB Bandwidth NVNT ac40 5550MHz Ant1



-26dB Bandwidth NVNT ac40 5670MHz Ant1



-26dB Bandwidth NVNT ac80 5530MHz Ant1



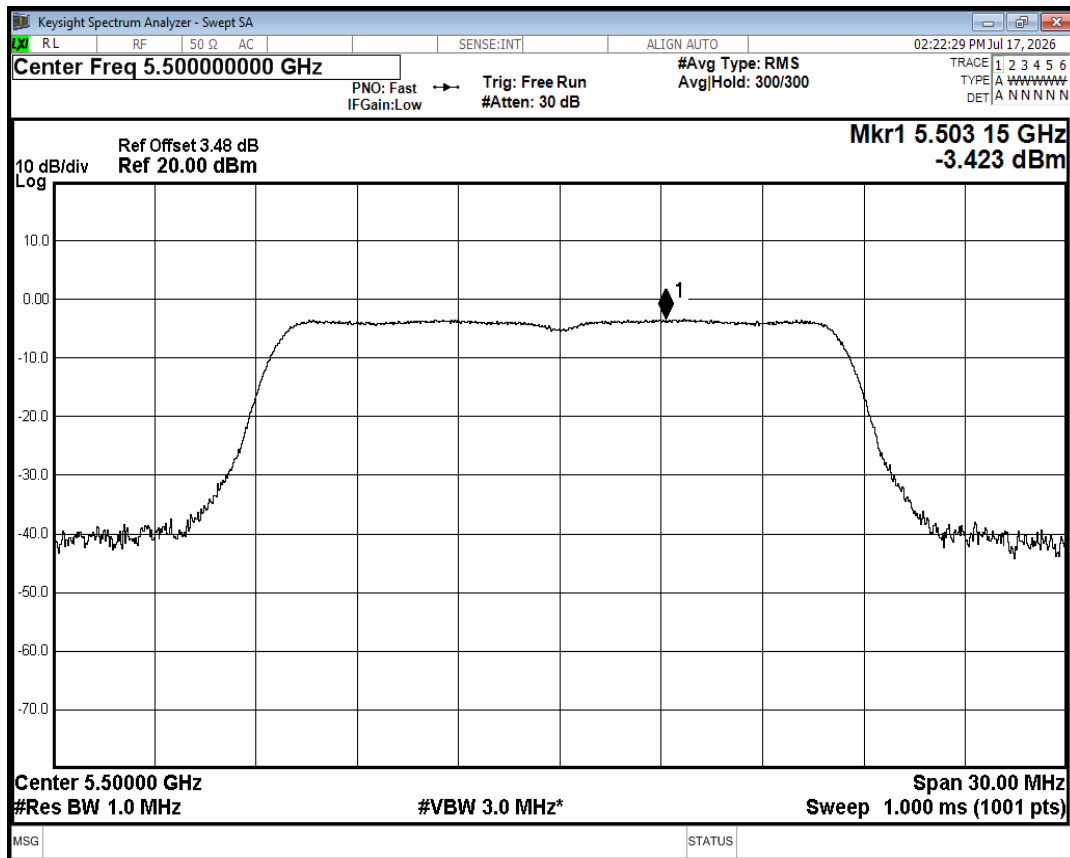
-26dB Bandwidth NVNT ac80 5610MHz Ant1

E.2 Maximum Conducted Output Power

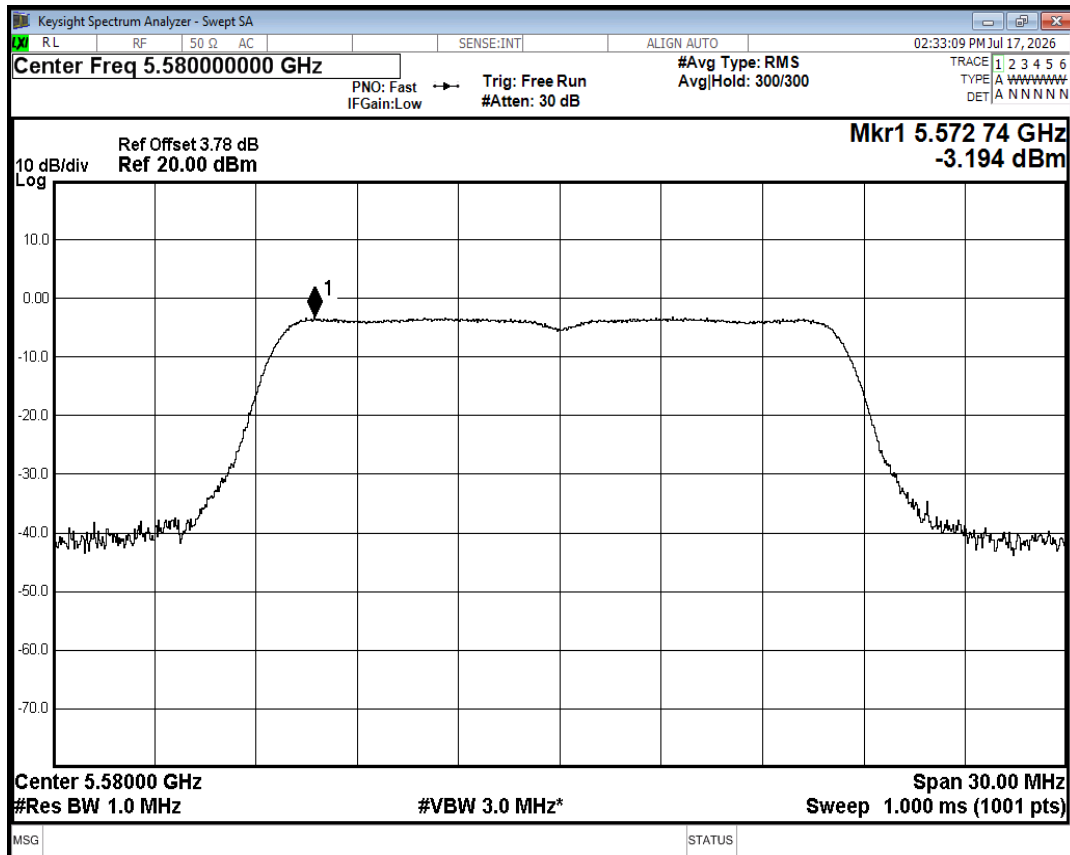
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Conducted Power (dBm)	Limit Conducted(dBm)	Verdict
NVNT	a	5500	Ant1	18.04	0.1	18.14	24	Pass
NVNT	a	5580	Ant1	18.5	0.1	18.6	24	Pass
NVNT	a	5700	Ant1	17.21	0.1	17.31	24	Pass
NVNT	n20	5500	Ant1	17.85	0.11	17.96	24	Pass
NVNT	n20	5580	Ant1	18.01	0.13	18.14	24	Pass
NVNT	n20	5700	Ant1	16.83	0.11	16.94	24	Pass
NVNT	n40	5510	Ant1	17.04	0.23	17.27	24	Pass
NVNT	n40	5550	Ant1	17.9	0.23	18.13	24	Pass
NVNT	n40	5670	Ant1	17.13	0.23	17.36	24	Pass
NVNT	ac20	5500	Ant1	17.71	0.11	17.82	24	Pass
NVNT	ac20	5580	Ant1	18	0.11	18.11	24	Pass
NVNT	ac20	5700	Ant1	16.87	0.11	16.98	24	Pass
NVNT	ac40	5510	Ant1	17.66	0.23	17.89	24	Pass
NVNT	ac40	5550	Ant1	17.85	0.23	18.08	24	Pass
NVNT	ac40	5670	Ant1	17.01	0.23	17.24	24	Pass
NVNT	ac80	5530	Ant1	16.69	0.54	17.23	24	Pass
NVNT	ac80	5610	Ant1	17.26	0.46	17.72	24	Pass

E.3 Maximum Power Spectral Density Level

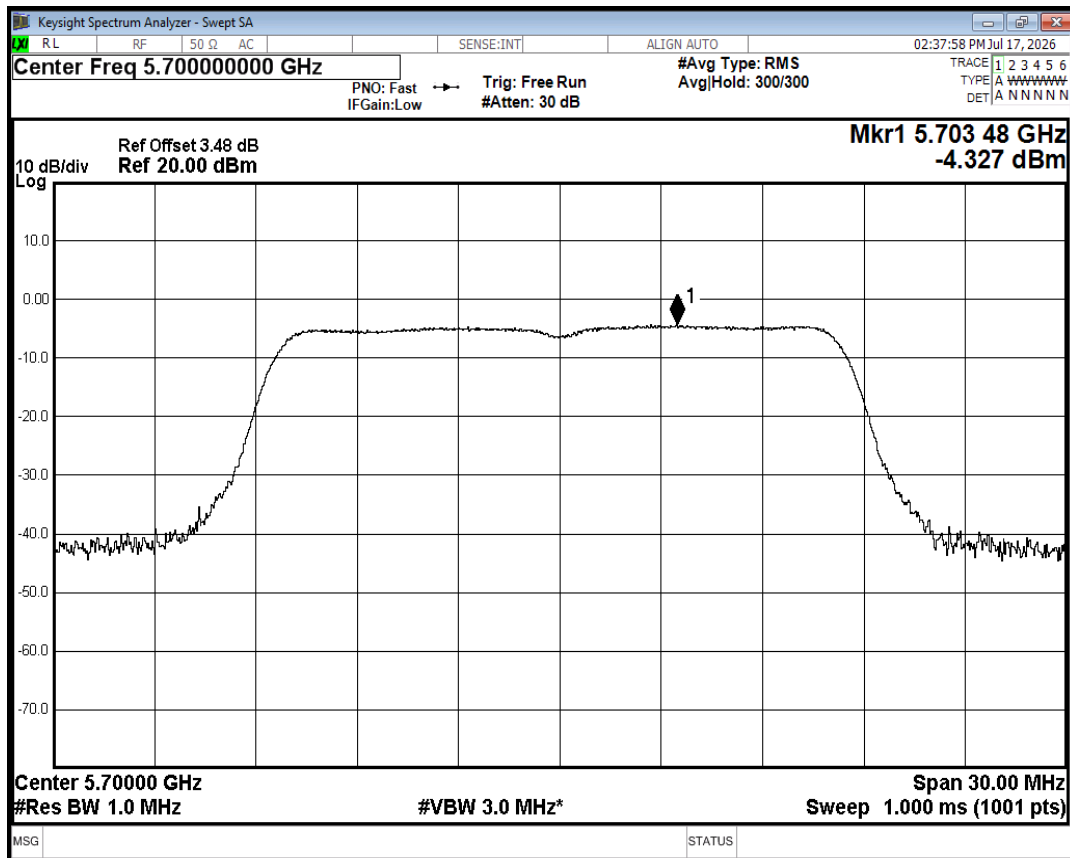
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/MHz)	Duty Factor (dB)	Total Conducted PSD (dBm/MHz)	Limit Conducted(dBm/MHz)	Verdict
NVNT	a	5500	Ant1	-3.42	0.1	-3.32	11	Pass
NVNT	a	5580	Ant1	-3.19	0.1	-3.09	11	Pass
NVNT	a	5700	Ant1	-4.33	0.1	-4.23	11	Pass
NVNT	n20	5500	Ant1	-3.47	0.11	-3.36	11	Pass
NVNT	n20	5580	Ant1	-4.1	0.13	-3.97	11	Pass
NVNT	n20	5700	Ant1	-5.23	0.11	-5.12	11	Pass
NVNT	n40	5510	Ant1	-7.73	0.23	-7.5	11	Pass
NVNT	n40	5550	Ant1	-7.43	0.23	-7.2	11	Pass
NVNT	n40	5670	Ant1	-8.48	0.23	-8.25	11	Pass
NVNT	ac20	5500	Ant1	-4.36	0.11	-4.25	11	Pass
NVNT	ac20	5580	Ant1	-4.07	0.11	-3.96	11	Pass
NVNT	ac20	5700	Ant1	-5.43	0.11	-5.32	11	Pass
NVNT	ac40	5510	Ant1	-7.45	0.23	-7.22	11	Pass
NVNT	ac40	5550	Ant1	-7.55	0.23	-7.32	11	Pass
NVNT	ac40	5670	Ant1	-8.61	0.23	-8.38	11	Pass
NVNT	ac80	5530	Ant1	-11.82	0.54	-11.28	11	Pass
NVNT	ac80	5610	Ant1	-11.26	0.46	-10.8	11	Pass



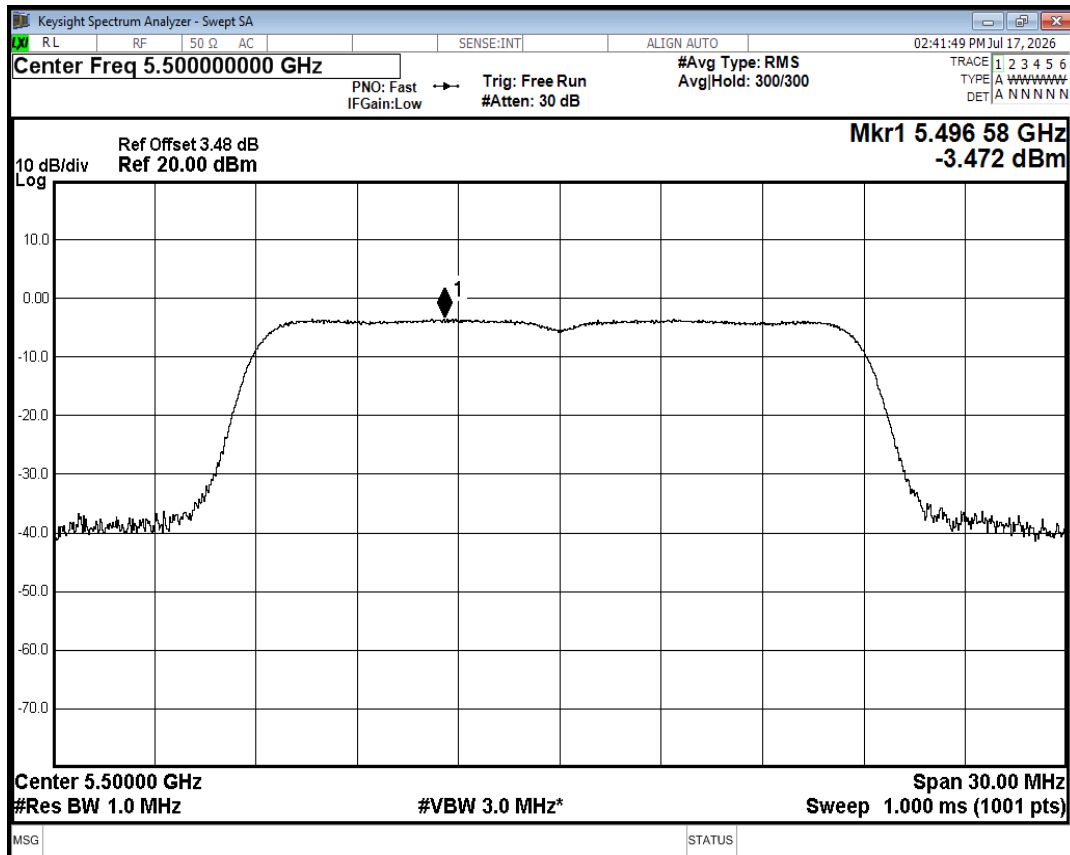
PSD NVNT a 5500MHz Ant1



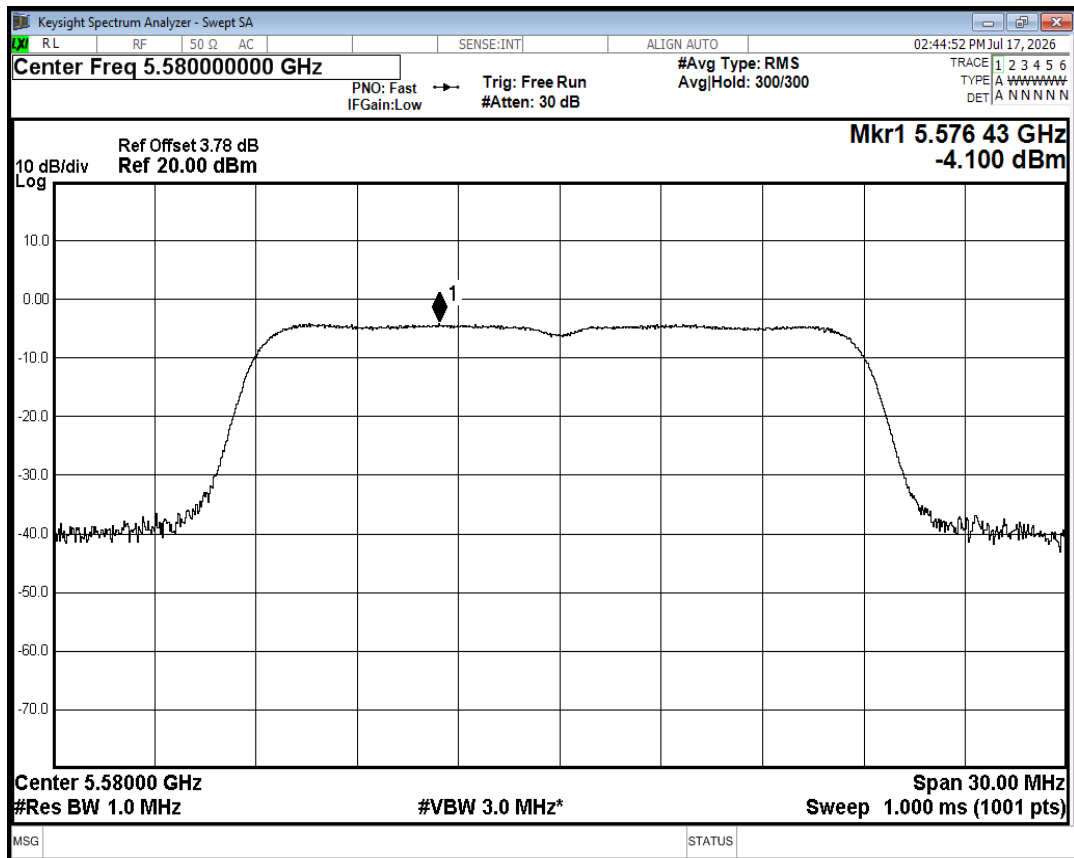
PSD NVNT a 5580MHz Ant1



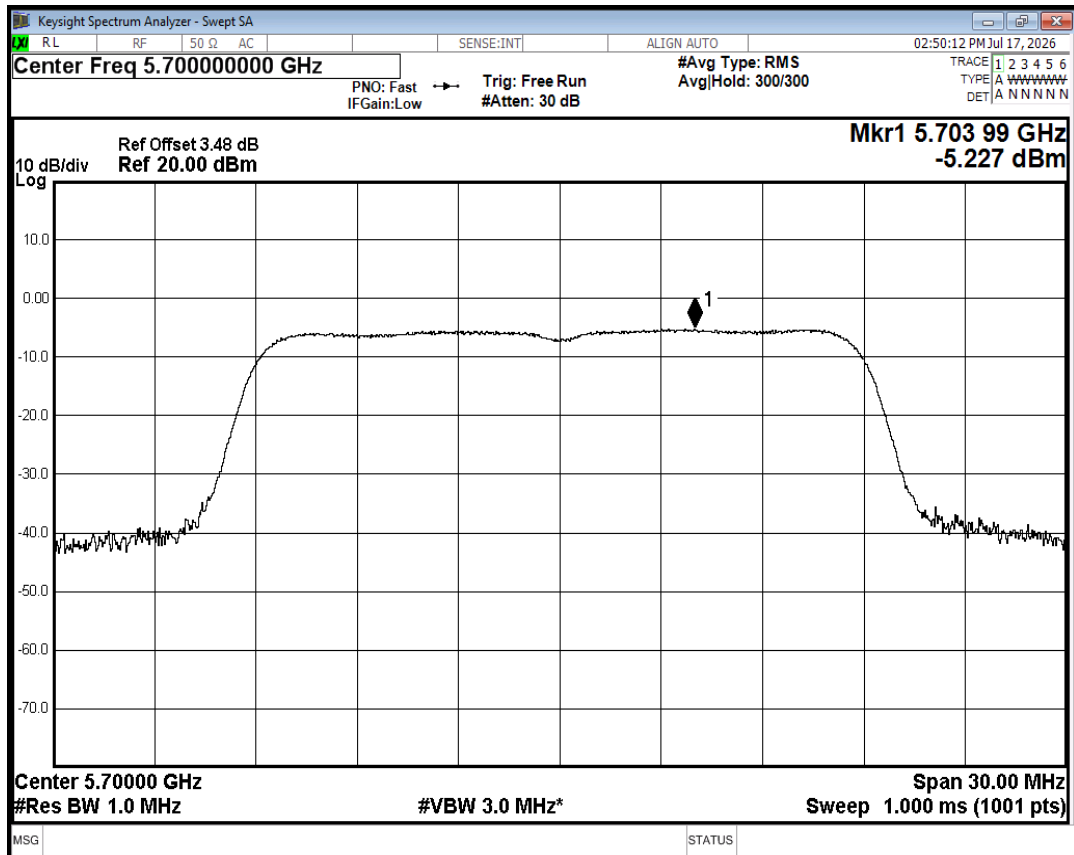
PSD NVNT a 5700MHz Ant1



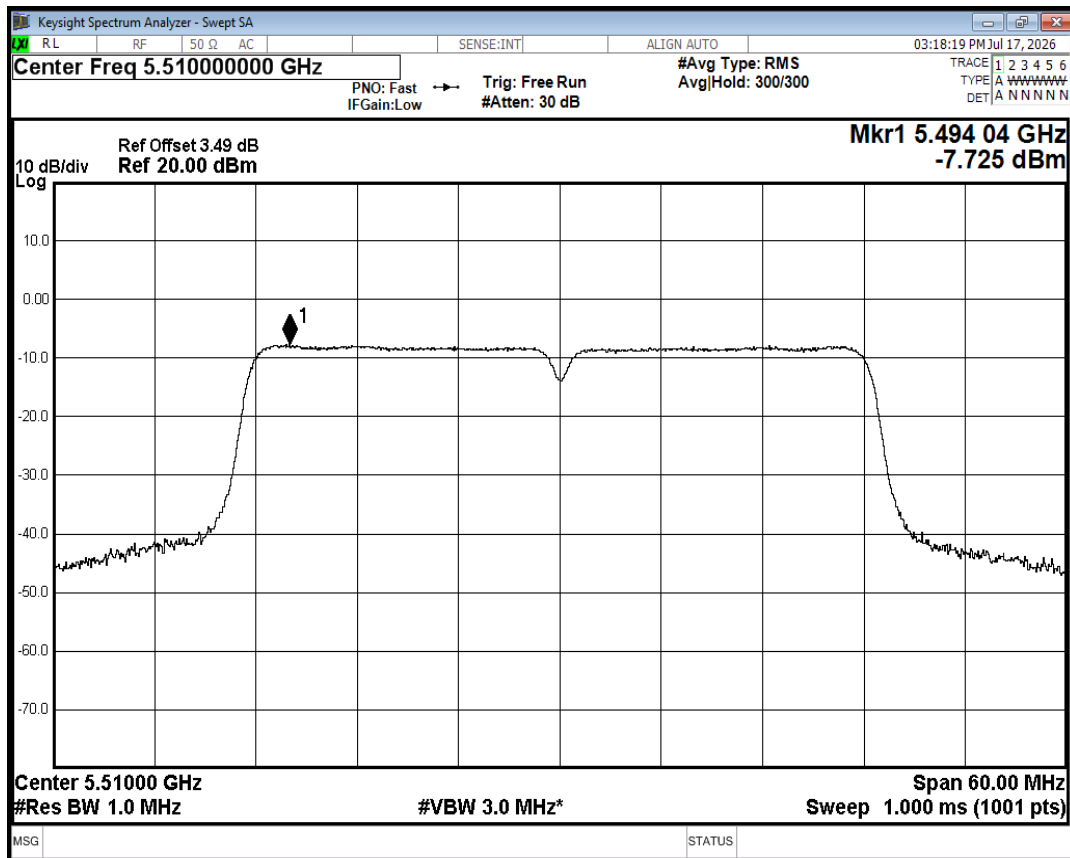
PSD NVNT n20 5500MHz Ant1



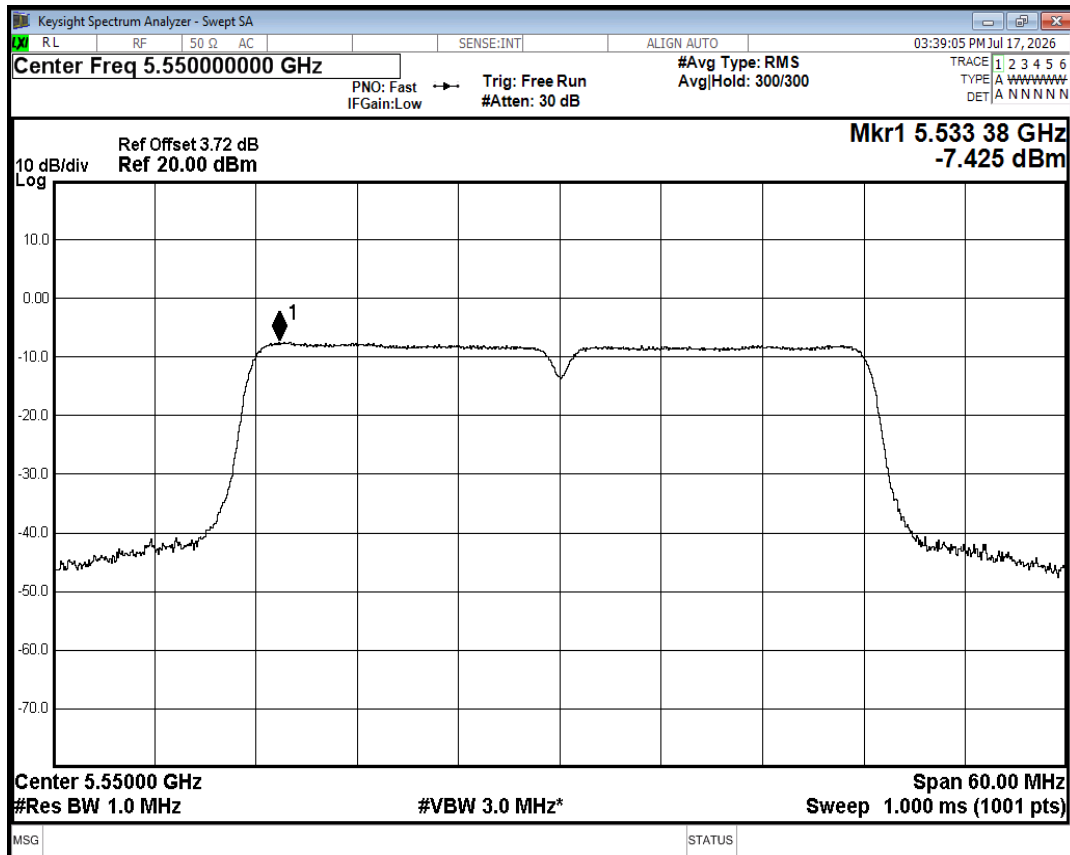
PSD NVNT n20 5580MHz Ant1



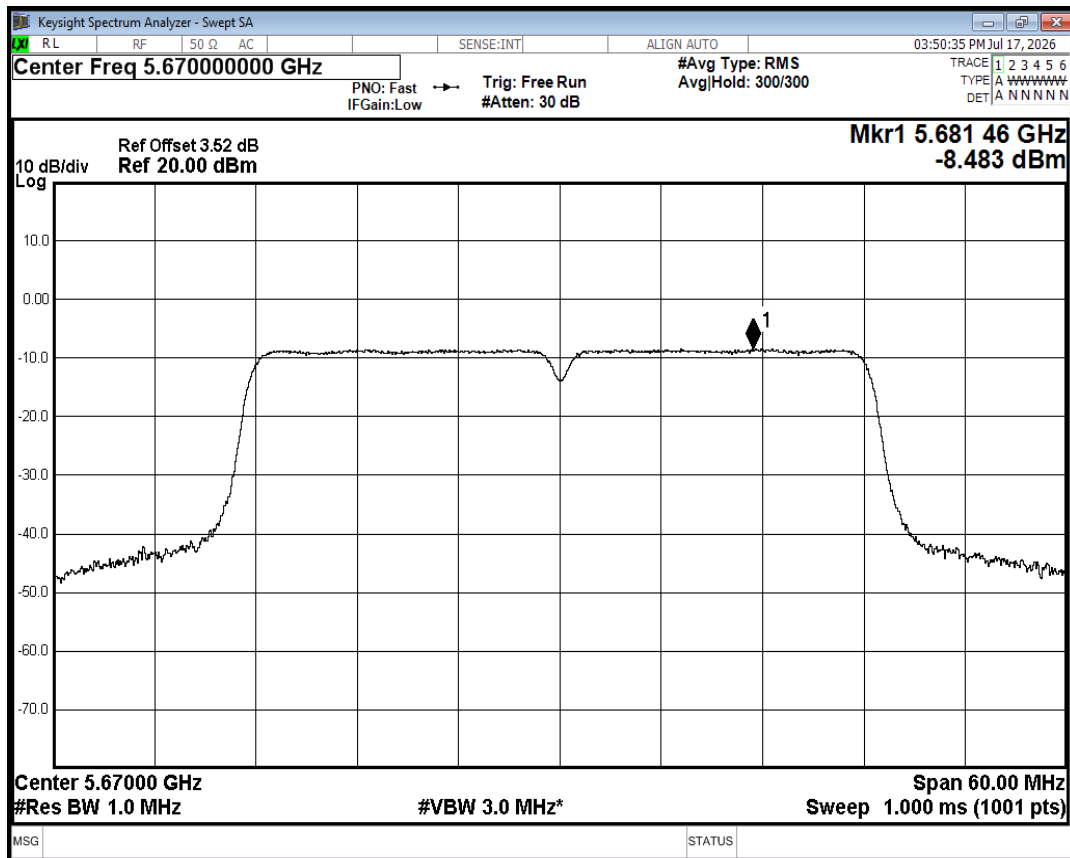
PSD NVNT n20 5700MHz Ant1



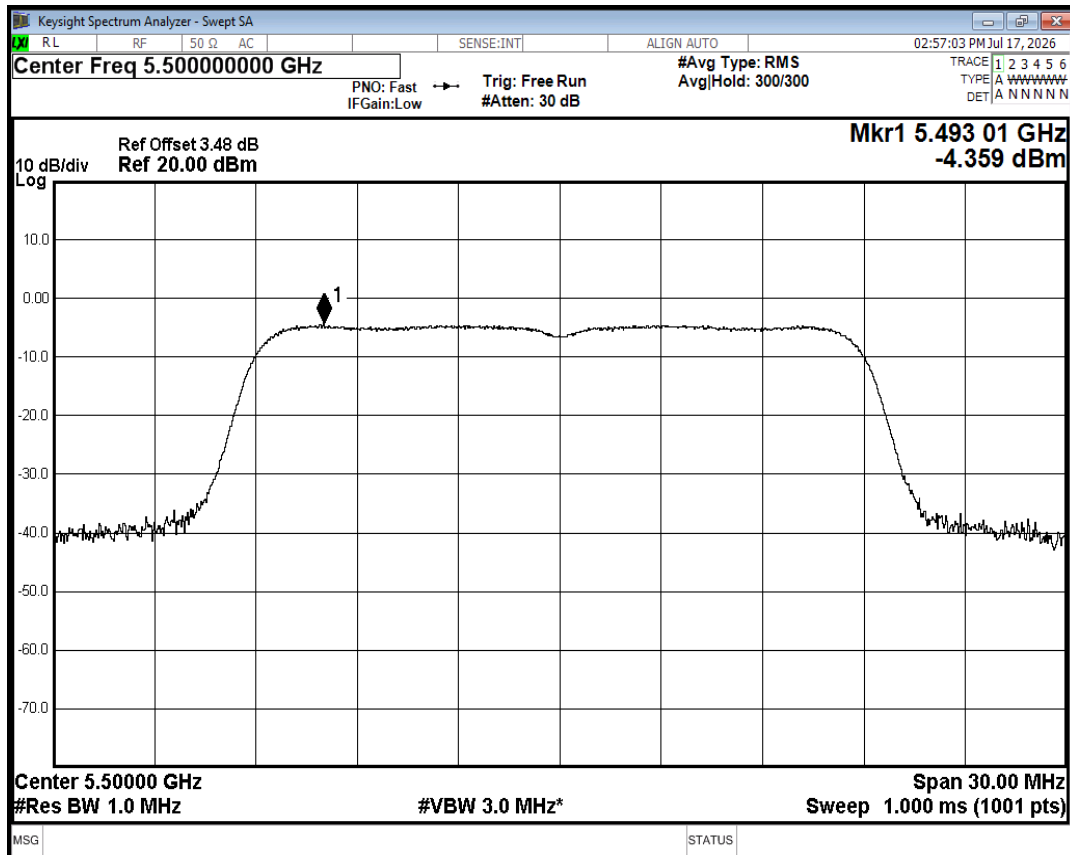
PSD NVNT n40 5510MHz Ant1



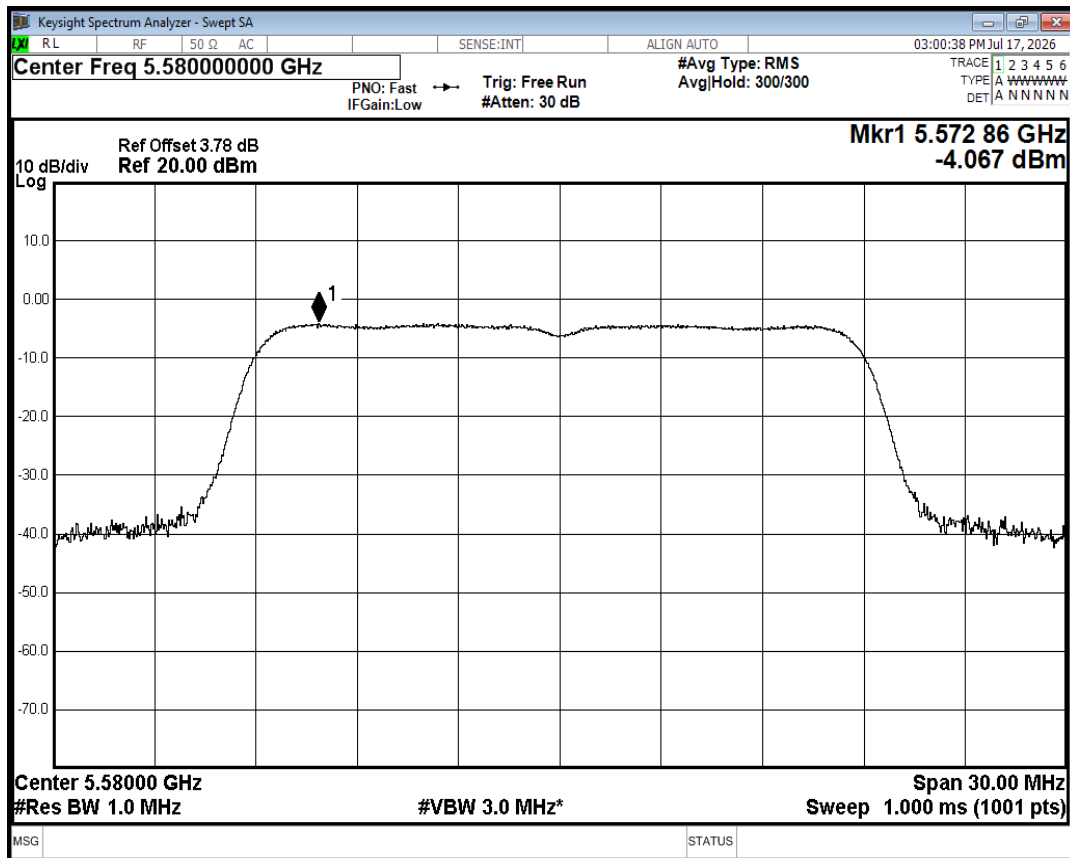
PSD NVNT n40 5550MHz Ant1



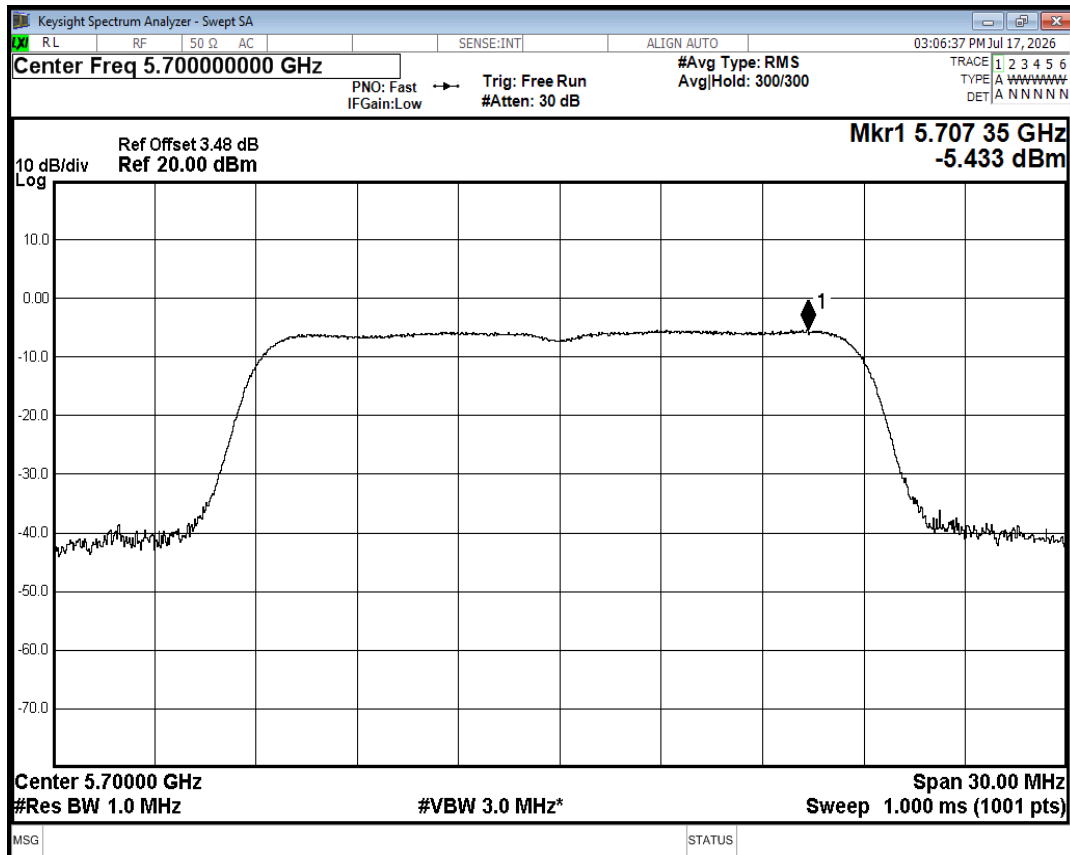
PSD NVNT n40 5670MHz Ant1



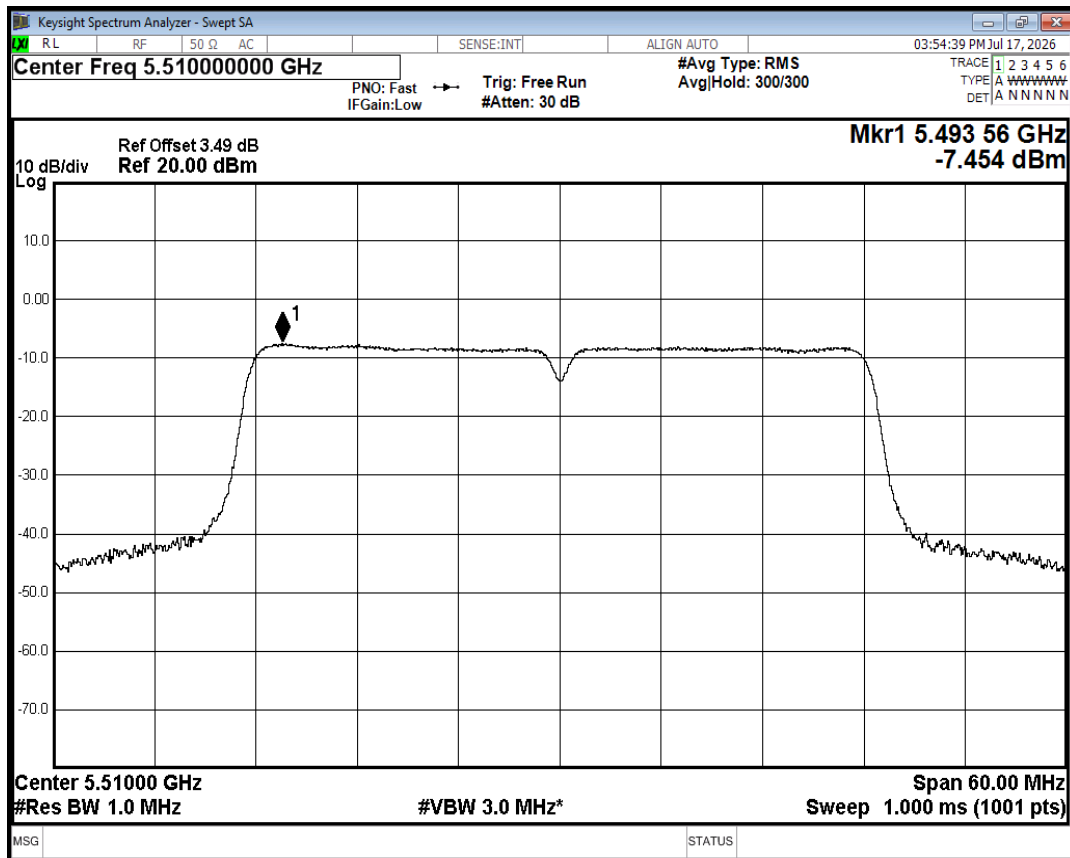
PSD NVNT ac20 5500MHz Ant1



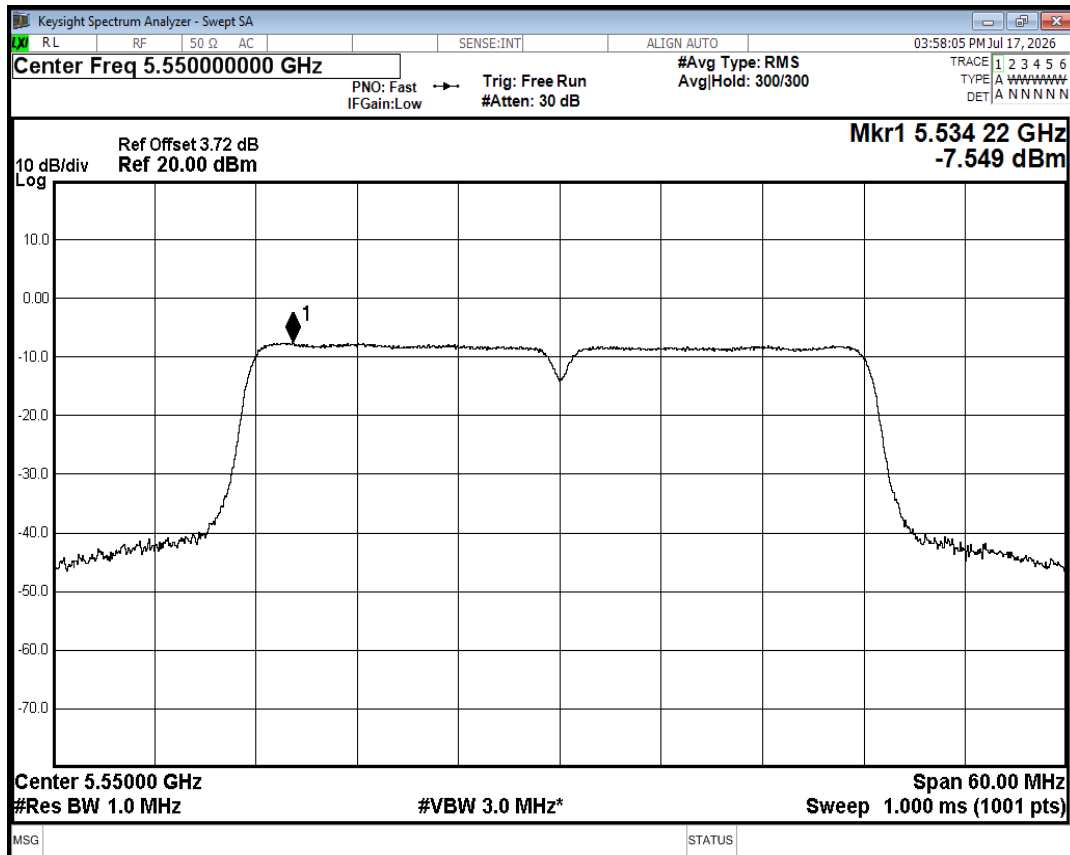
PSD NVNT ac20 5580MHz Ant1



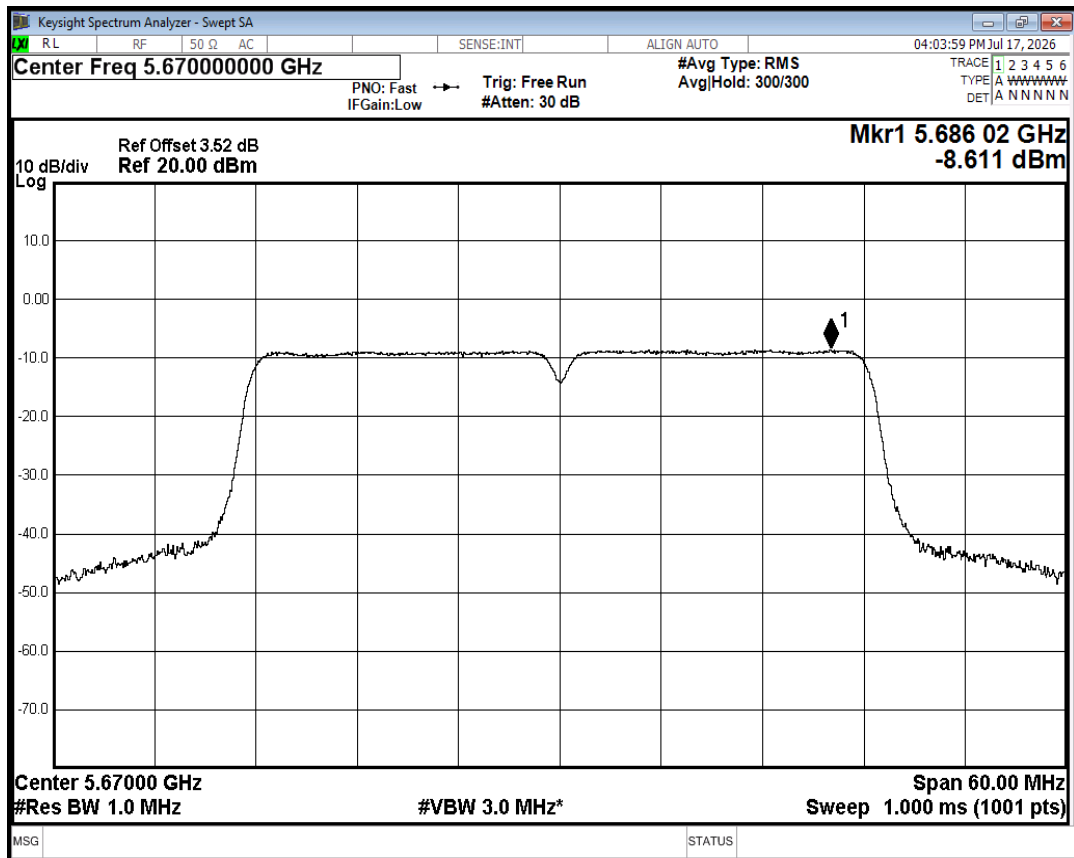
PSD NVNT ac20 5700MHz Ant1



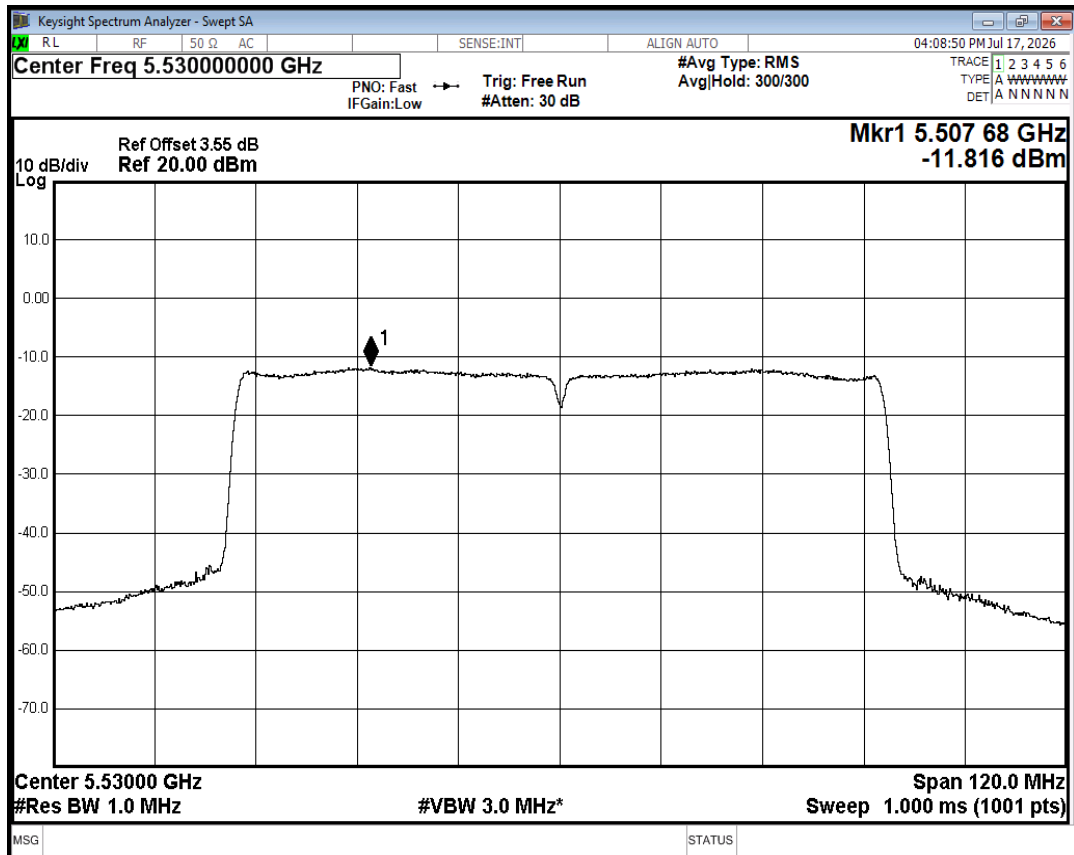
PSD NVNT ac40 5510MHz Ant1



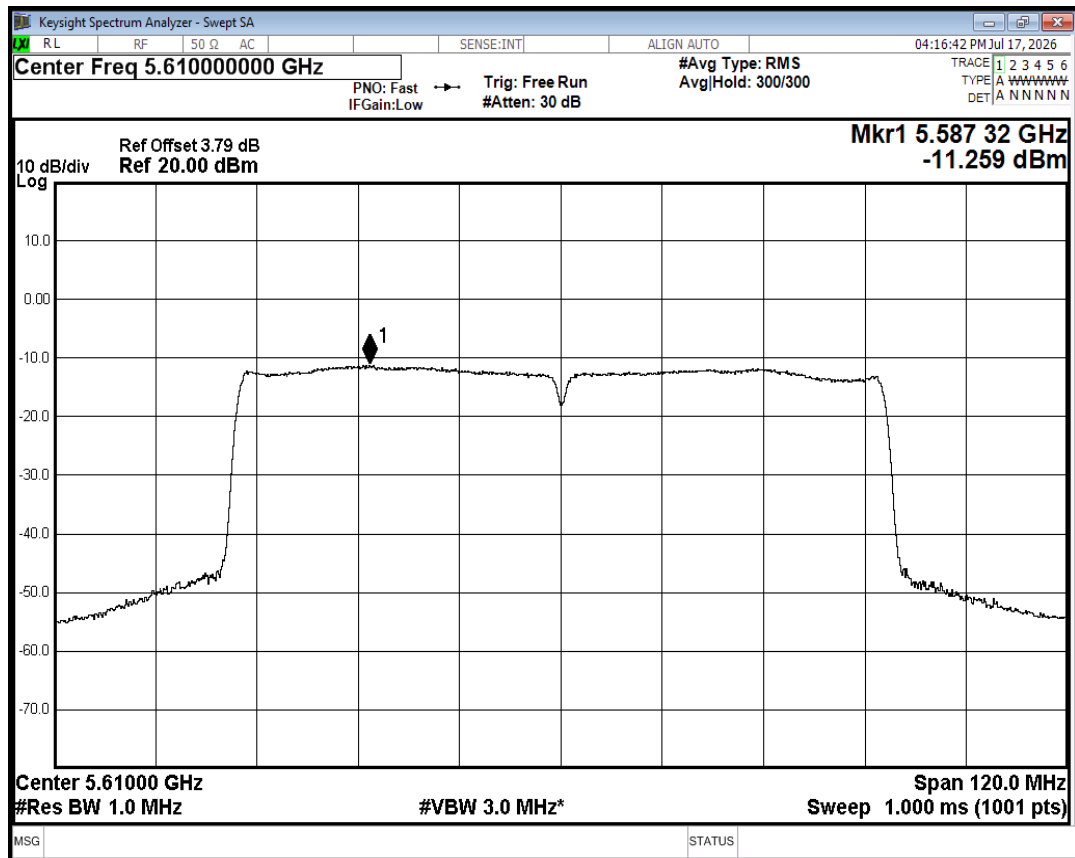
PSD NVNT ac40 5550MHz Ant1



PSD NVNT ac40 5670MHz Ant1



PSD NVNT ac80 5530MHz Ant1

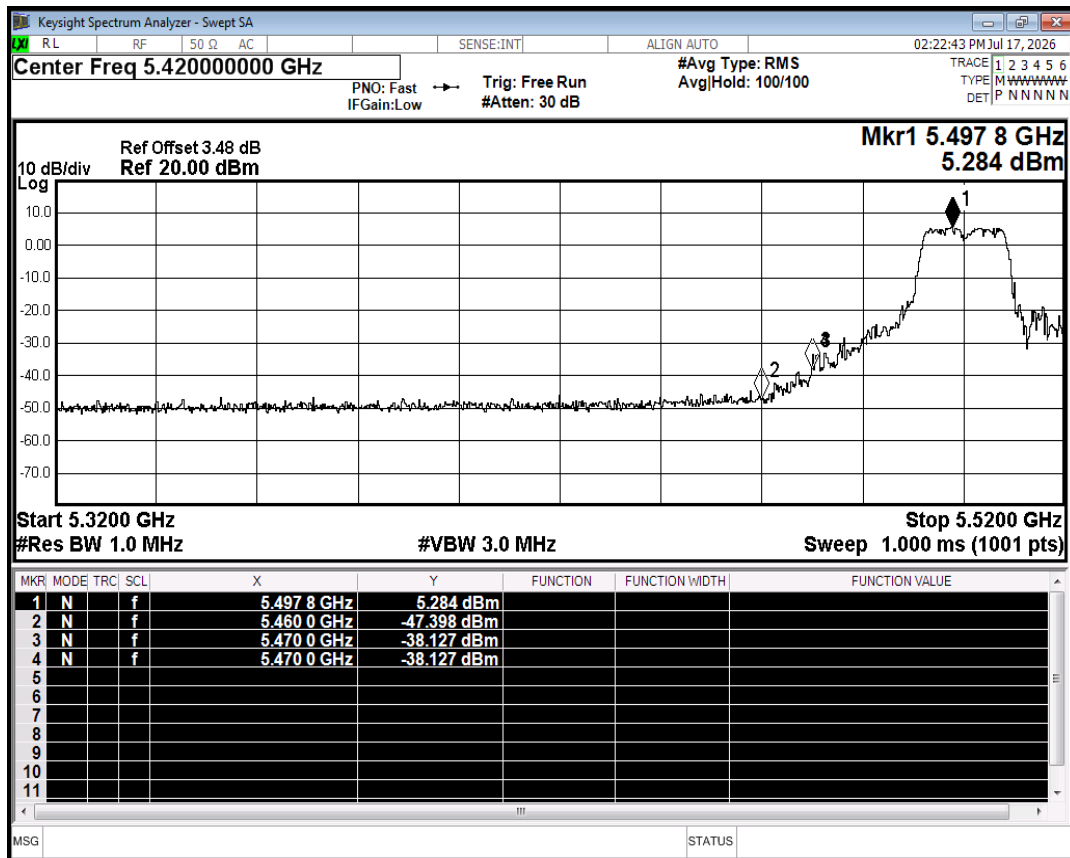


PSD NVNT ac80 5610MHz Ant1

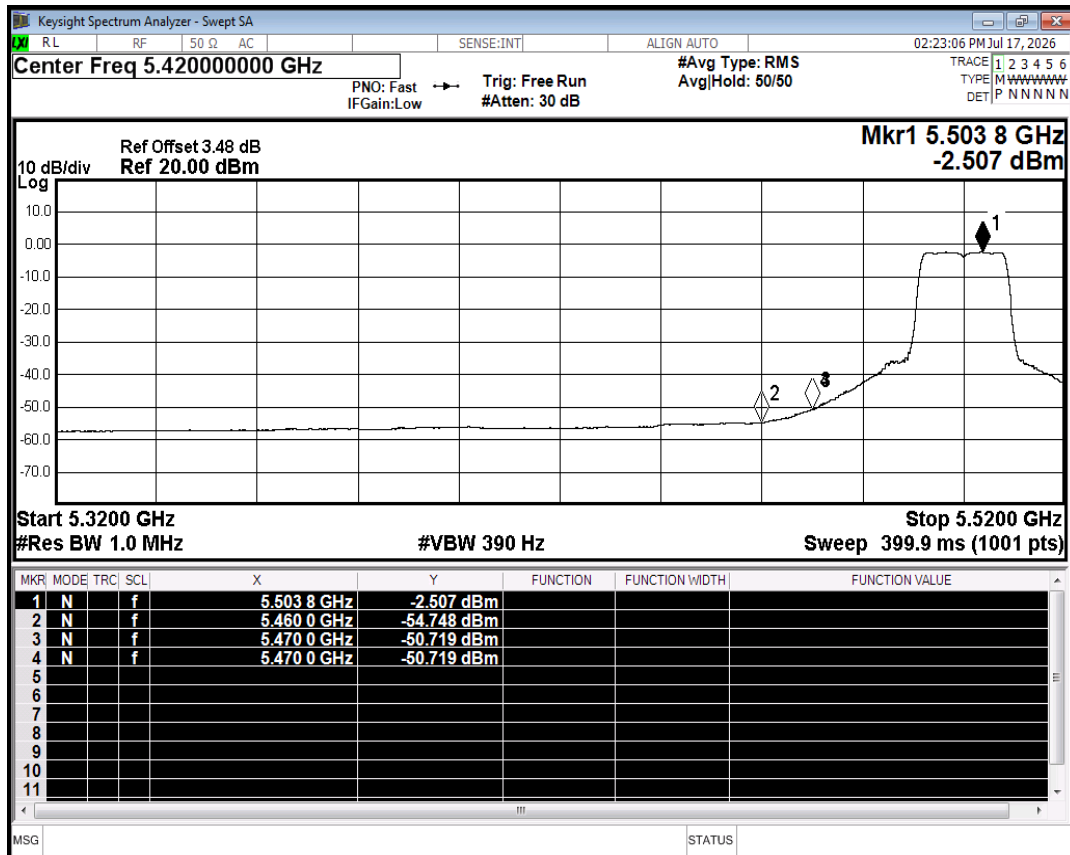
E.4 Restrict Band

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	-47.39	2	49.84	Peak	68.2	Pass
NVNT	a	5500	Ant1	5460	-54.74	2	42.49	Average	54	Pass
NVNT	a	5500	Ant1	5470	-38.12	2	59.11	Peak	68.2	Pass
NVNT	a	5500	Ant1	5470	-50.71	2	46.52	Average	54	Pass
NVNT	a	5500	Ant1	5470	-38.12	2	59.11	Peak	68.2	Pass
NVNT	a	5500	Ant1	5470	-50.71	2	46.52	Average	54	Pass
NVNT	a	5700	Ant1	5725	-35.41	2	61.82	Peak	68.2	Pass
NVNT	a	5700	Ant1	5725	-49.2	2	48.03	Average	54	Pass
NVNT	a	5700	Ant1	5725.8	-34.79	2	62.44	Peak	68.2	Pass
NVNT	a	5700	Ant1	5725	-49.2	2	48.03	Average	54	Pass
NVNT	a	5700	Ant1	5735	-45.83	2	51.4	Peak	68.2	Pass
NVNT	a	5700	Ant1	5735	-54.92	2	42.31	Average	54	Pass
NVNT	n20	5500	Ant1	5460	-43.45	2	53.78	Peak	68.2	Pass
NVNT	n20	5500	Ant1	5460	-54.52	2	42.71	Average	54	Pass
NVNT	n20	5500	Ant1	5469	-33.98	2	63.25	Peak	68.2	Pass
NVNT	n20	5500	Ant1	5470	-49.25	2	47.98	Average	54	Pass
NVNT	n20	5500	Ant1	5470	-36.77	2	60.46	Peak	68.2	Pass
NVNT	n20	5500	Ant1	5470	-49.25	2	47.98	Average	54	Pass
NVNT	n20	5700	Ant1	5725	-32.53	2	64.7	Peak	68.2	Pass
NVNT	n20	5700	Ant1	5725	-48.03	2	49.2	Average	54	Pass
NVNT	n20	5700	Ant1	5725	-32.53	2	64.7	Peak	68.2	Pass
NVNT	n20	5700	Ant1	5725	-48.03	2	49.2	Average	54	Pass
NVNT	n20	5700	Ant1	5735	-47.54	2	49.69	Peak	68.2	Pass
NVNT	n20	5700	Ant1	5735	-54.69	2	42.54	Average	54	Pass
NVNT	n40	5510	Ant1	5460	-46.7	2	50.53	Peak	68.2	Pass
NVNT	n40	5510	Ant1	5460	-54.09	2	43.14	Average	54	Pass
NVNT	n40	5510	Ant1	5470	-36.07	2	61.16	Peak	68.2	Pass
NVNT	n40	5510	Ant1	5470	-49.09	2	48.14	Average	54	Pass
NVNT	n40	5510	Ant1	5470	-36.07	2	61.16	Peak	68.2	Pass
NVNT	n40	5510	Ant1	5470	-49.09	2	48.14	Average	54	Pass
NVNT	n40	5670	Ant1	5725	-48.89	2	48.34	Peak	68.2	Pass
NVNT	n40	5670	Ant1	5725	-56.02	2	41.21	Average	54	Pass
NVNT	n40	5670	Ant1	5730.8	-47.43	2	49.8	Peak	68.2	Pass
NVNT	n40	5670	Ant1	5726	-55.84	2	41.39	Average	54	Pass
NVNT	n40	5670	Ant1	5735	-49.83	2	47.4	Peak	68.2	Pass
NVNT	n40	5670	Ant1	5735	-56.23	2	41	Average	54	Pass
NVNT	ac20	5500	Ant1	5460	-48.82	2	48.41	Peak	68.2	Pass
NVNT	ac20	5500	Ant1	5460	-55.38	2	41.85	Average	54	Pass
NVNT	ac20	5500	Ant1	5469.4	-35.43	2	61.8	Peak	68.2	Pass
NVNT	ac20	5500	Ant1	5470	-50.3	2	46.93	Average	54	Pass
NVNT	ac20	5500	Ant1	5470	-38.8	2	58.43	Peak	68.2	Pass

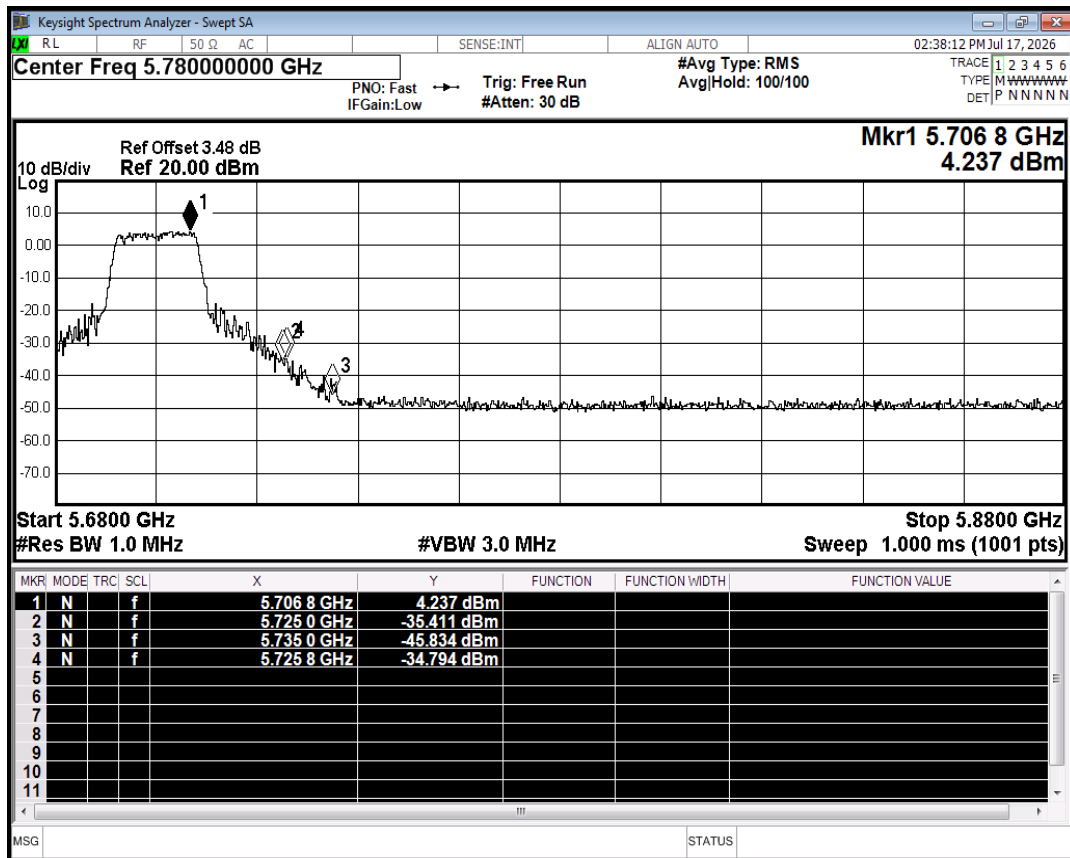
NVNT	ac20	5500	Ant1	5470	-50.3	2	46.93	Average	54	Pass
NVNT	ac20	5700	Ant1	5725	-37.53	2	59.7	Peak	68.2	Pass
NVNT	ac20	5700	Ant1	5725	-48.87	2	48.36	Average	54	Pass
NVNT	ac20	5700	Ant1	5726.2	-35.43	2	61.8	Peak	68.2	Pass
NVNT	ac20	5700	Ant1	5725	-48.87	2	48.36	Average	54	Pass
NVNT	ac20	5700	Ant1	5735	-45.62	2	51.61	Peak	68.2	Pass
NVNT	ac20	5700	Ant1	5735	-54.98	2	42.25	Average	54	Pass
NVNT	ac40	5510	Ant1	5460	-46.67	2	50.56	Peak	68.2	Pass
NVNT	ac40	5510	Ant1	5460	-54.17	2	43.06	Average	54	Pass
NVNT	ac40	5510	Ant1	5466	-37.54	2	59.69	Peak	68.2	Pass
NVNT	ac40	5510	Ant1	5470	-50.26	2	46.97	Average	54	Pass
NVNT	ac40	5510	Ant1	5470	-40.66	2	56.57	Peak	68.2	Pass
NVNT	ac40	5510	Ant1	5470	-50.26	2	46.97	Average	54	Pass
NVNT	ac40	5670	Ant1	5725	-49.36	2	47.87	Peak	68.2	Pass
NVNT	ac40	5670	Ant1	5725	-55.86	2	41.37	Average	54	Pass
NVNT	ac40	5670	Ant1	5732	-47	2	50.23	Peak	68.2	Pass
NVNT	ac40	5670	Ant1	5725.8	-55.84	2	41.39	Average	54	Pass
NVNT	ac40	5670	Ant1	5735	-50.97	2	46.26	Peak	68.2	Pass
NVNT	ac40	5670	Ant1	5735	-56.16	2	41.07	Average	54	Pass
NVNT	ac80	5530	Ant1	5460	-46.08	2	51.15	Peak	68.2	Pass
NVNT	ac80	5530	Ant1	5460	-51.32	2	45.91	Average	54	Pass
NVNT	ac80	5530	Ant1	5467	-42.35	2	54.88	Peak	68.2	Pass
NVNT	ac80	5530	Ant1	5463.6	-50.95	2	46.28	Average	54	Pass
NVNT	ac80	5530	Ant1	5470	-43.07	2	54.16	Peak	68.2	Pass
NVNT	ac80	5530	Ant1	5470	-51.28	2	45.95	Average	54	Pass
NVNT	ac80	5610	Ant1	5725	-48.35	2	48.88	Peak	68.2	Pass
NVNT	ac80	5610	Ant1	5725	-55.95	2	41.28	Average	54	Pass
NVNT	ac80	5610	Ant1	5730.695	-47.19	2	50.04	Peak	68.2	Pass
NVNT	ac80	5610	Ant1	5733.155	-55.6	2	41.63	Average	54	Pass
NVNT	ac80	5610	Ant1	5735	-48.39	2	48.84	Peak	68.2	Pass
NVNT	ac80	5610	Ant1	5735	-55.92	2	41.31	Average	54	Pass



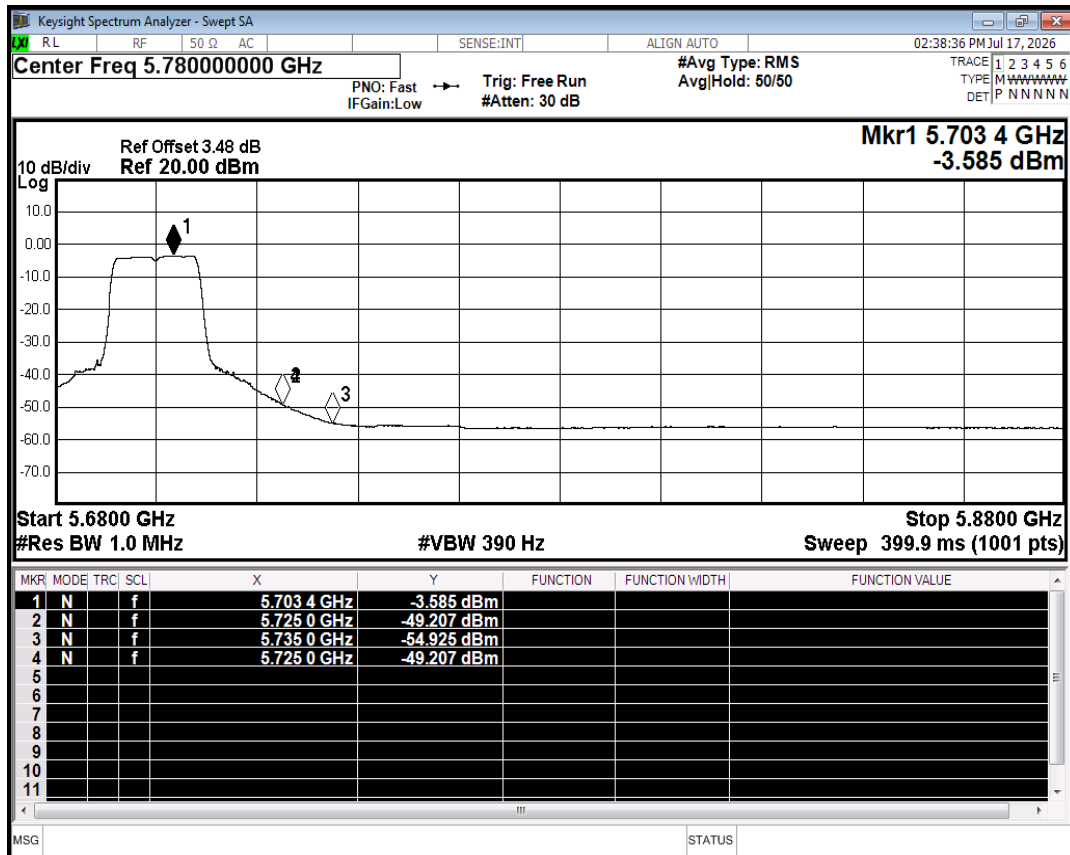
Restrict Band NVNT a 5500MHz Ant1 Peak



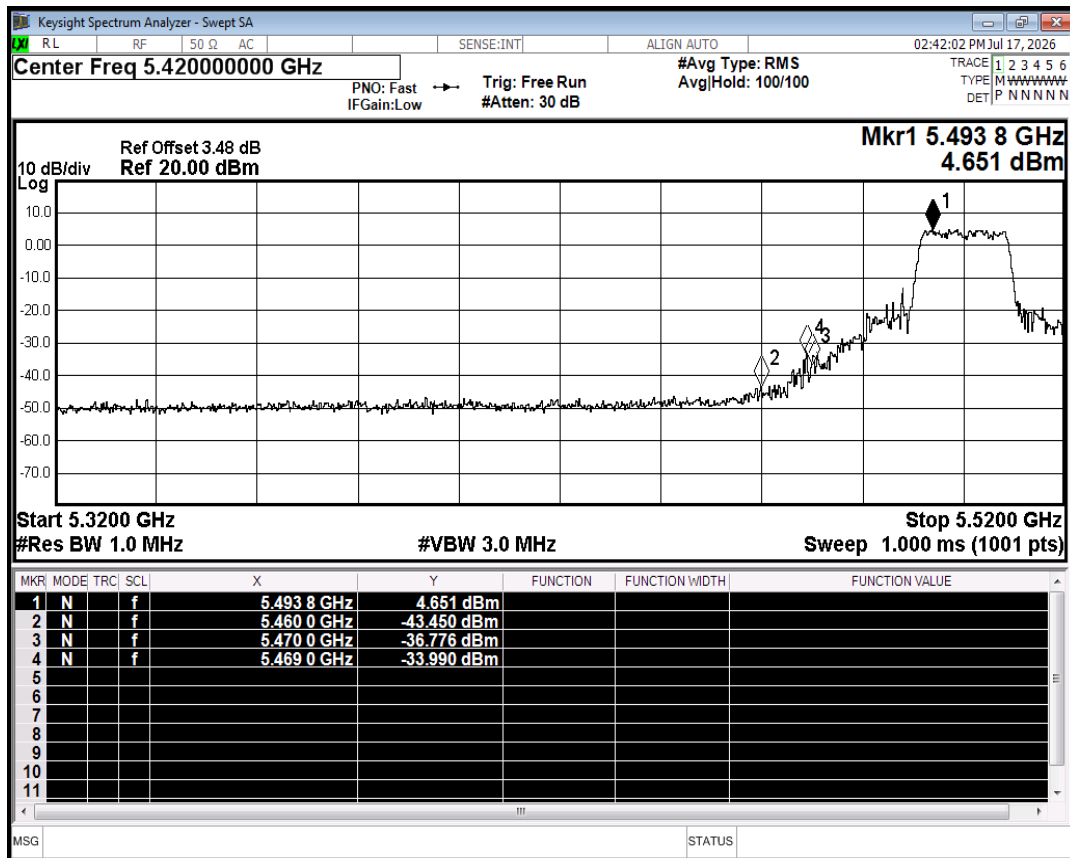
Restrict Band NVNT a 5500MHz Ant1 Average



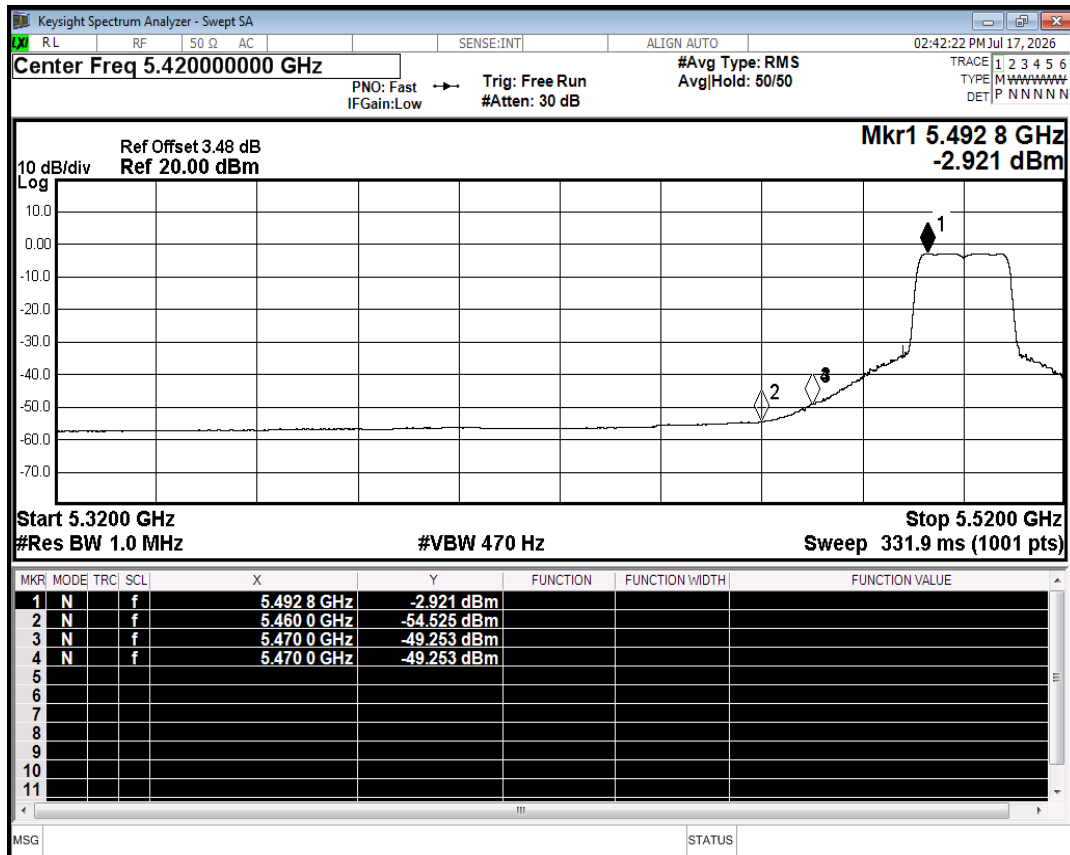
Restrict Band NVNT a 5700MHz Ant1 Peak



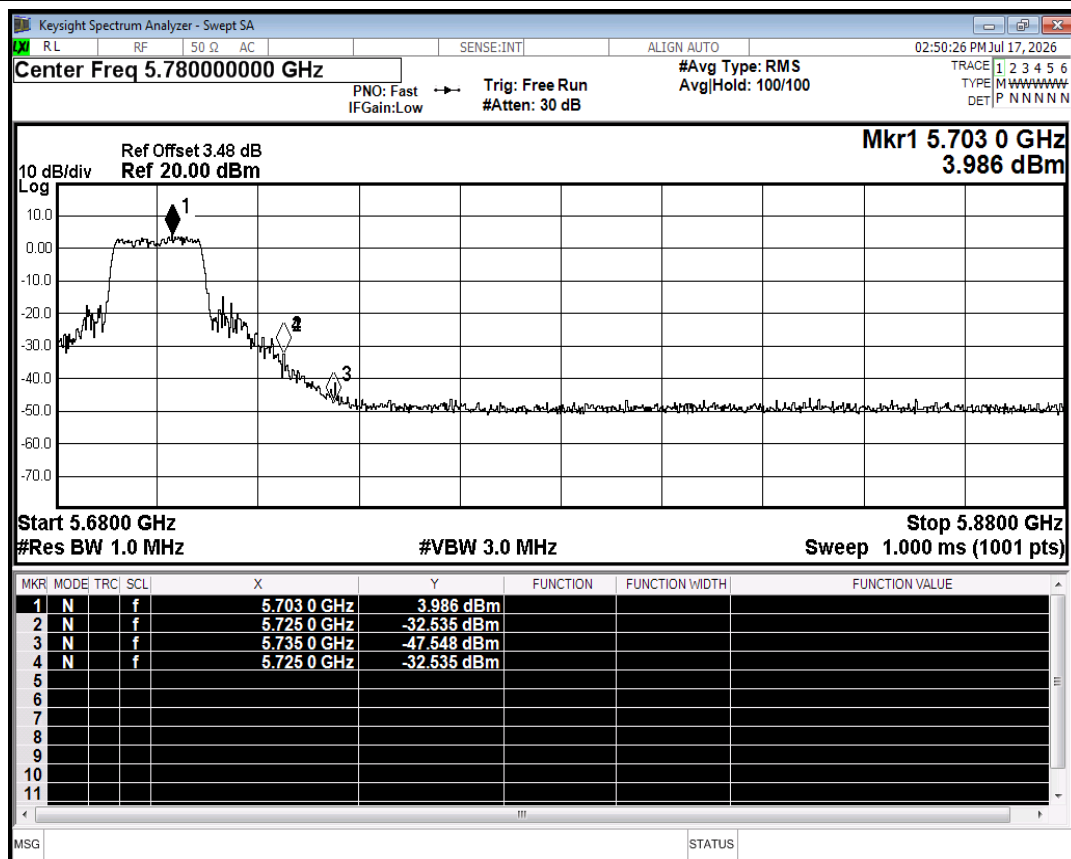
Restrict Band NVNT a 5700MHz Ant1 Average



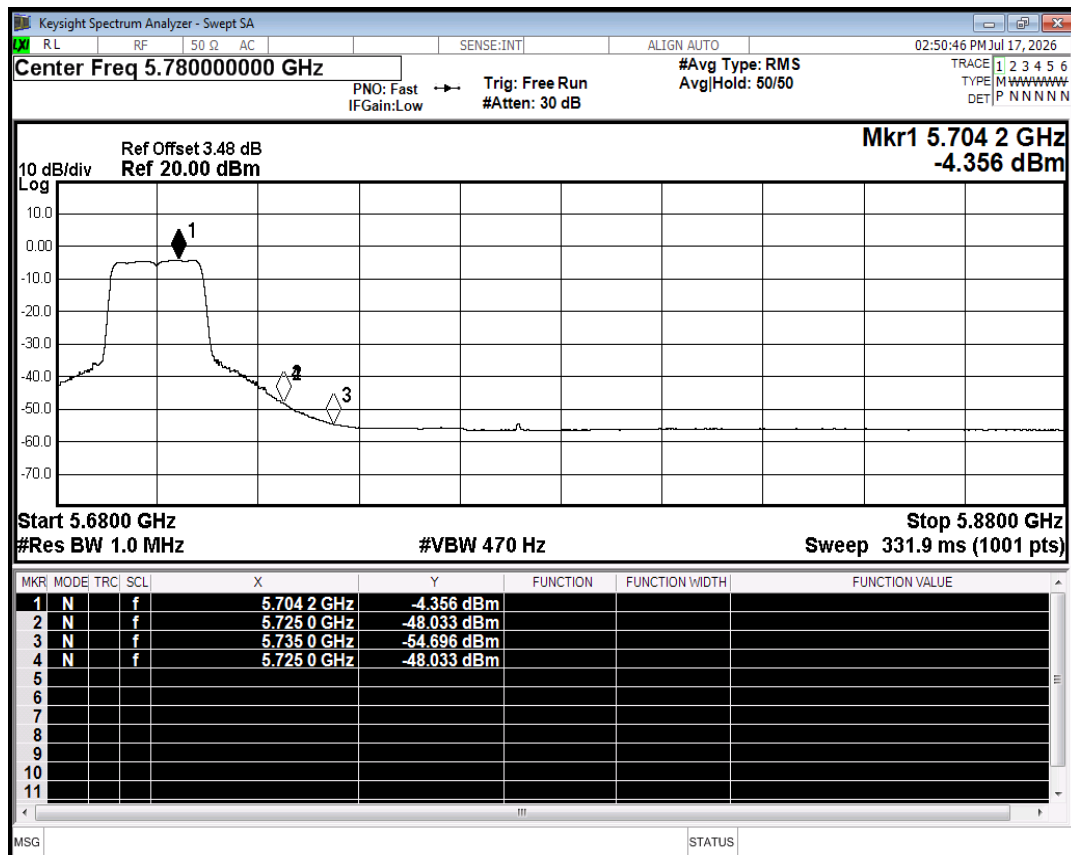
Restrict Band NVNT n20 5500MHz Ant1 Peak



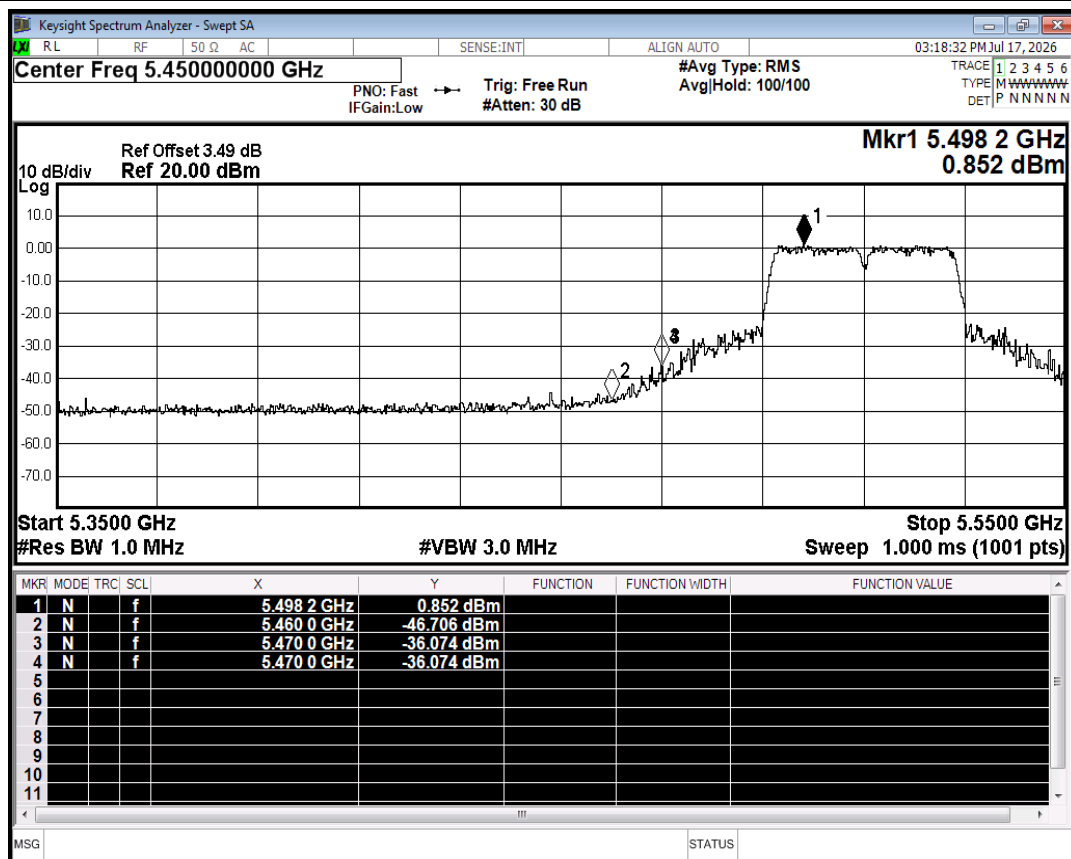
Restrict Band NVNT n20 5500MHz Ant1 Average



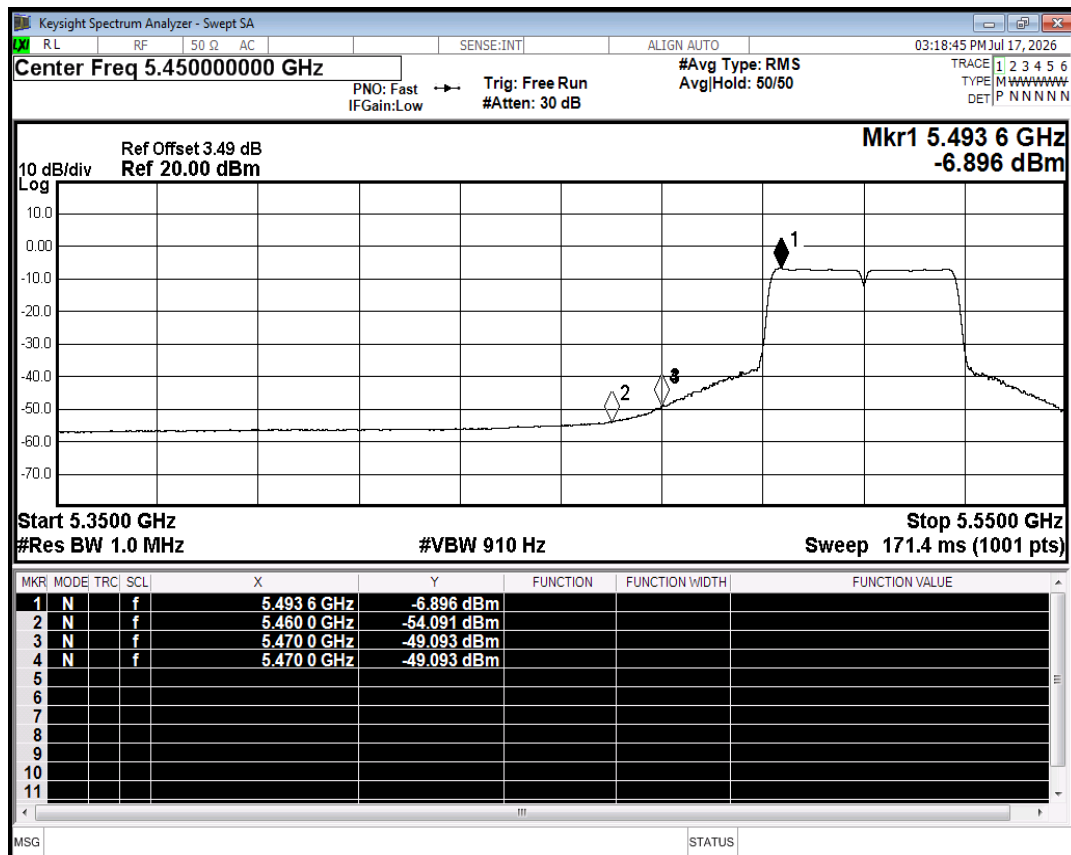
Restrict Band NVNT n20 5700MHz Ant1 Peak



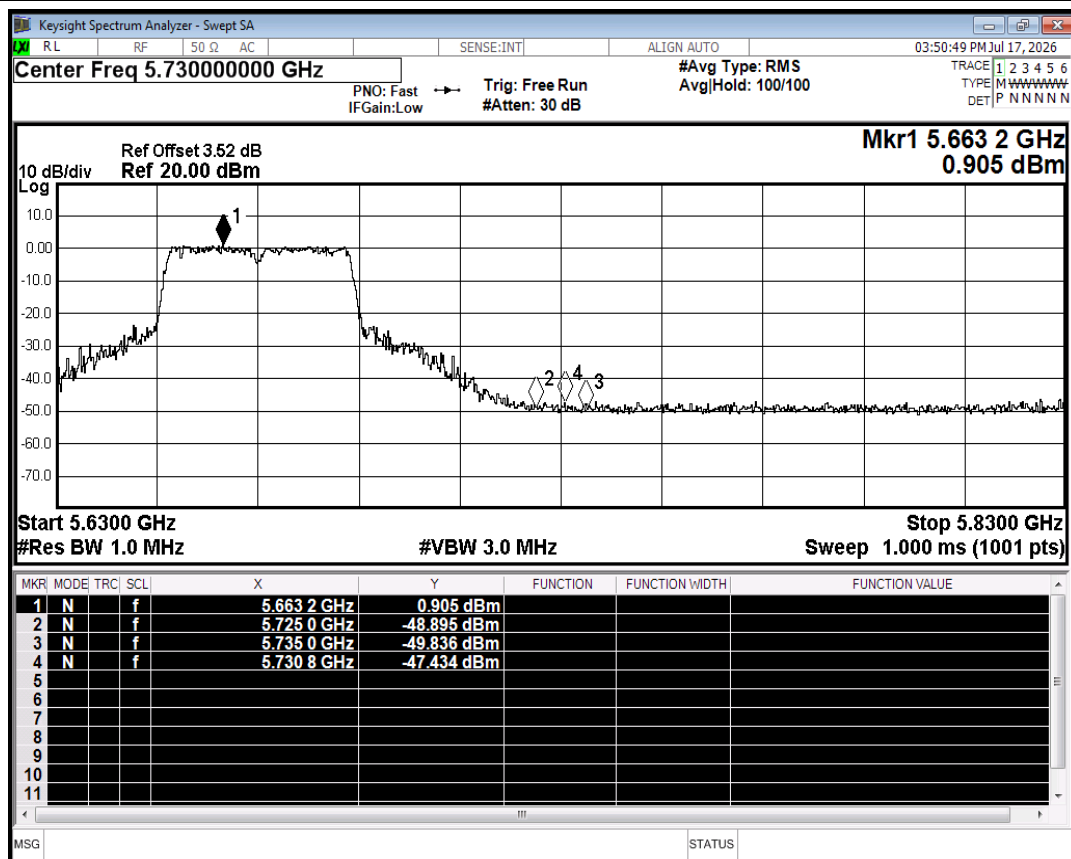
Restrict Band NVNT n20 5700MHz Ant1 Average



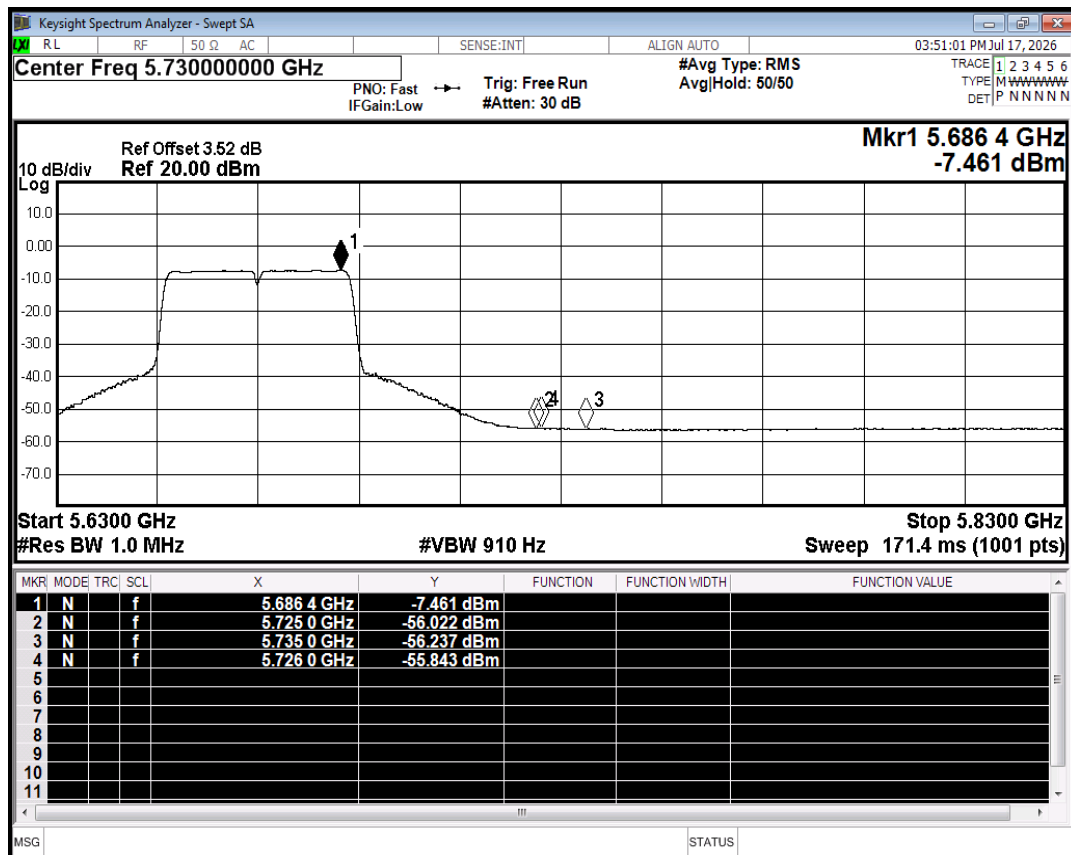
Restrict Band NVNT n40 5510MHz Ant1 Peak



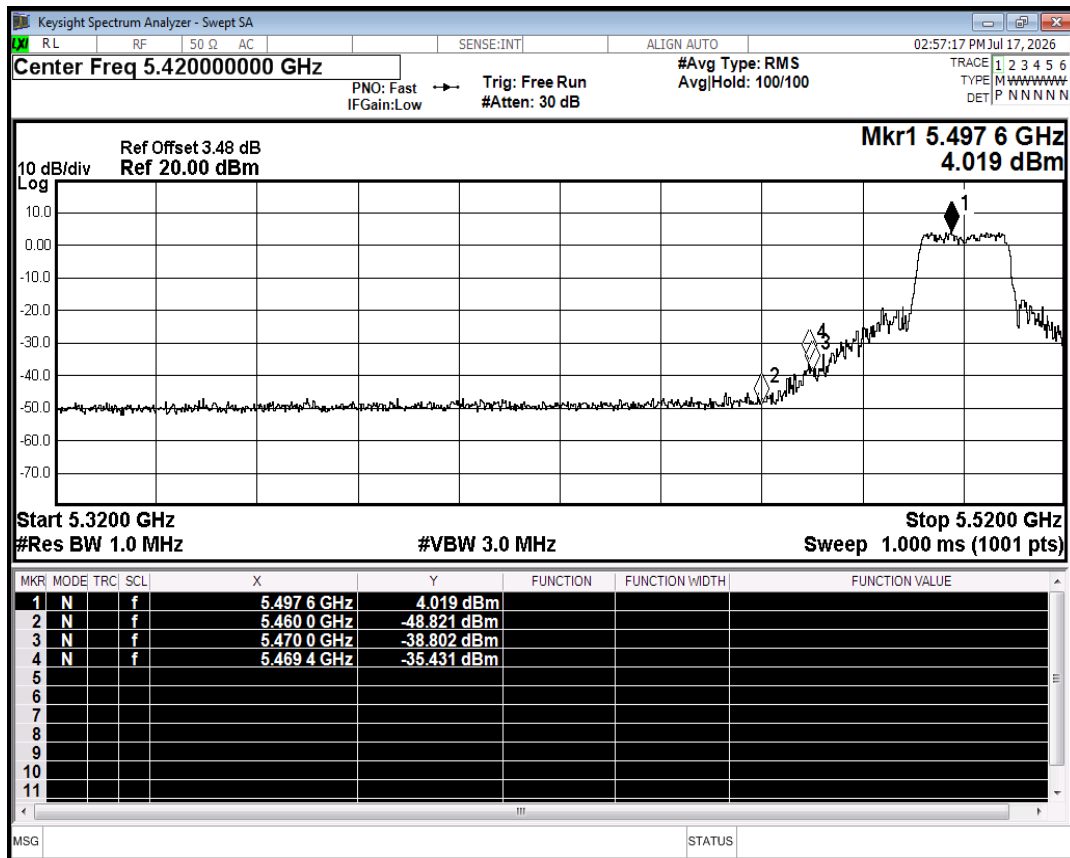
Restrict Band NVNT n40 5510MHz Ant1 Average



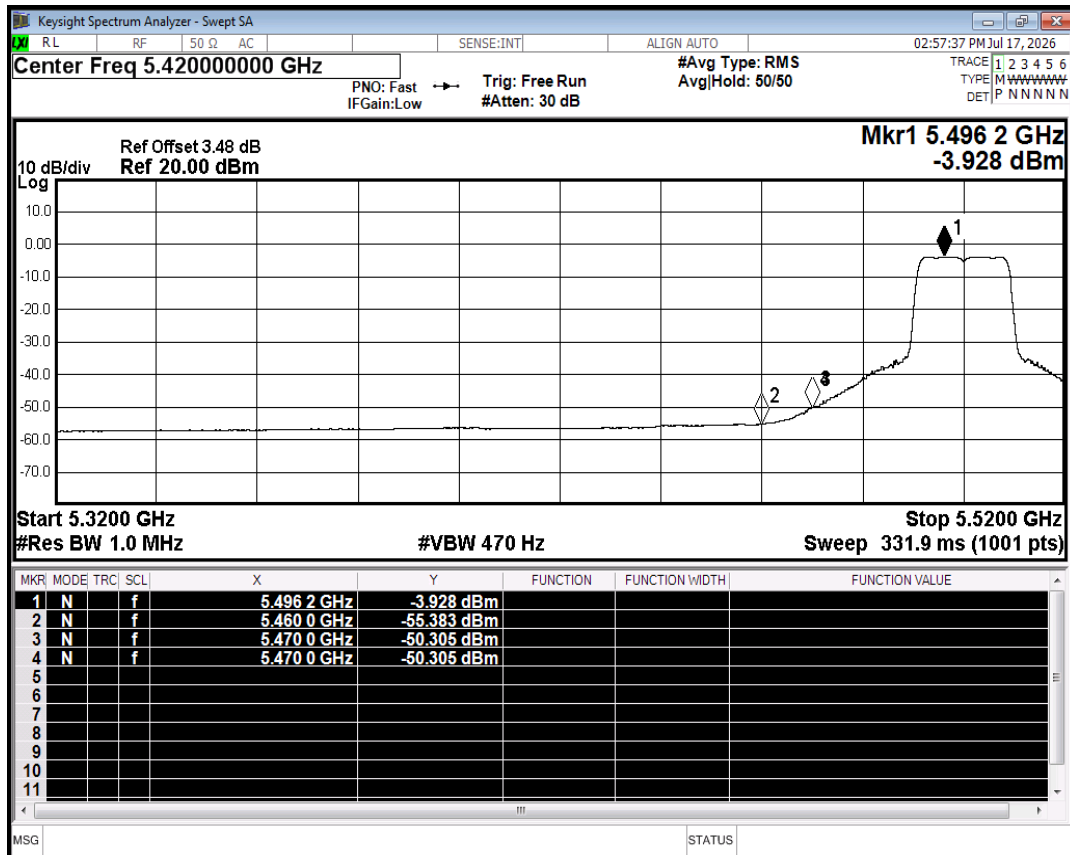
Restrict Band NVNT n40 5670MHz Ant1 Peak



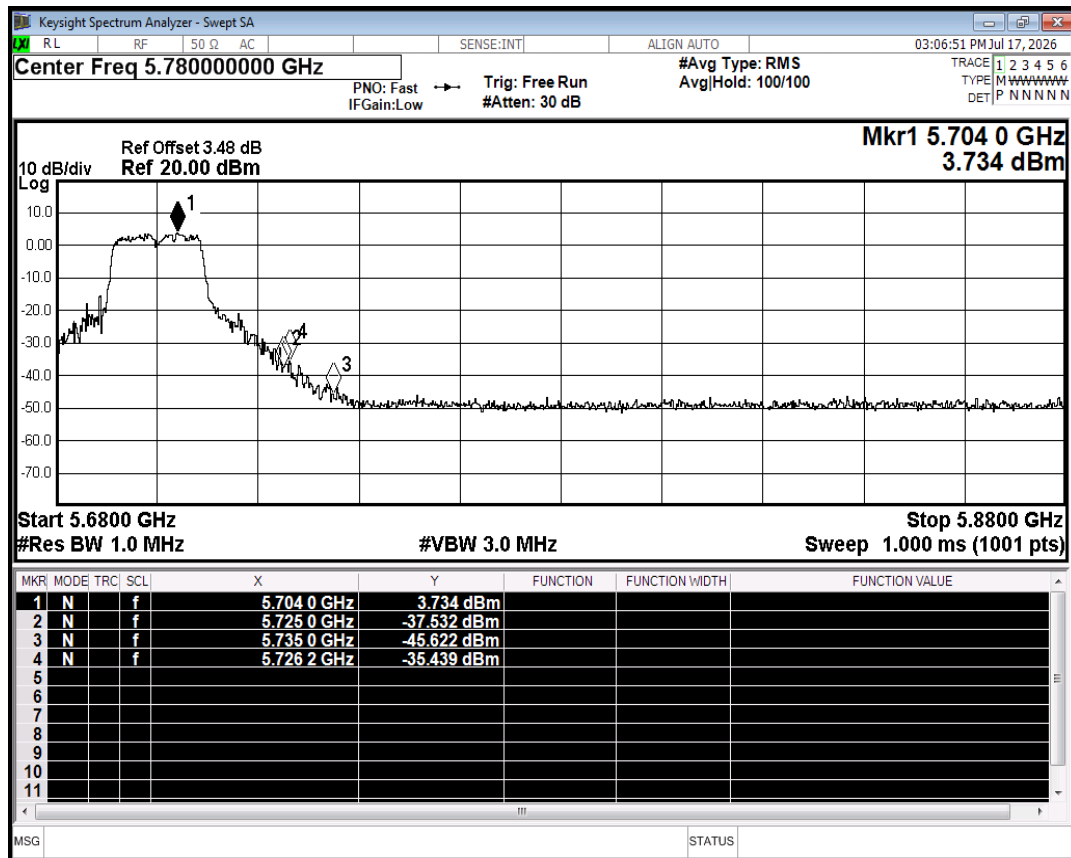
Restrict Band NVNT n40 5670MHz Ant1 Average



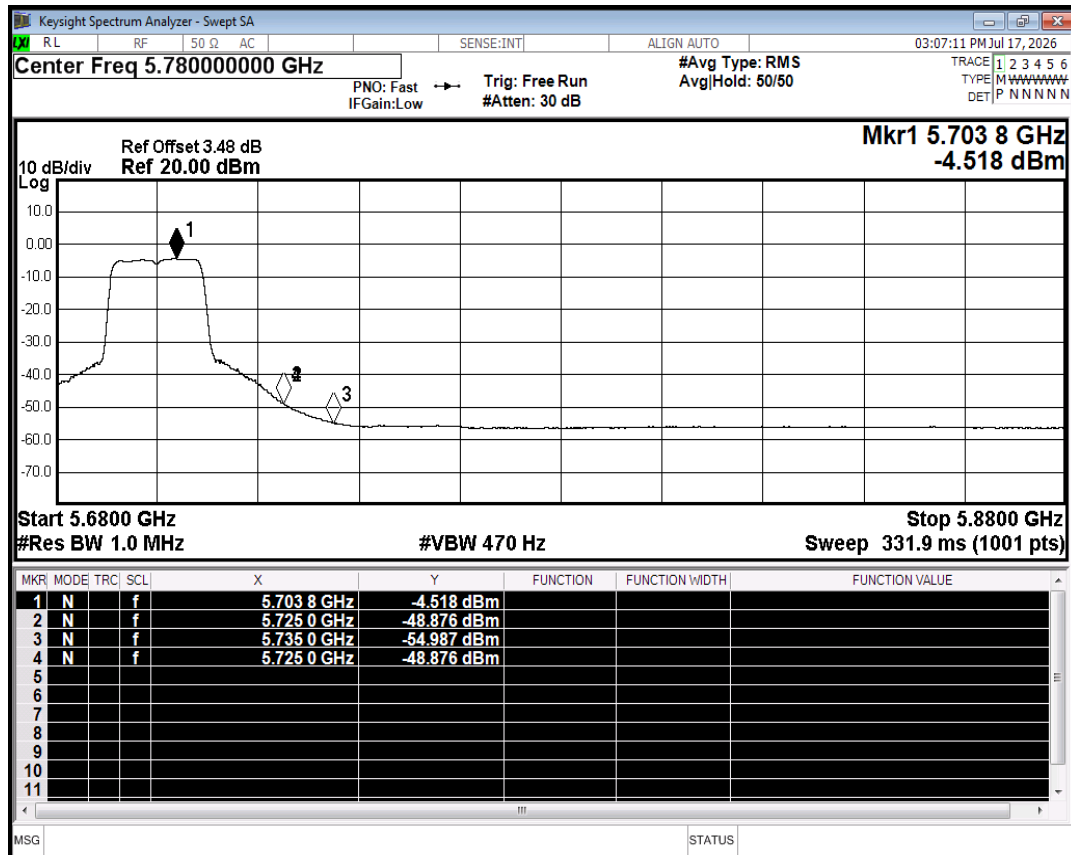
Restrict Band NVNT ac20 5500MHz Ant1 Peak



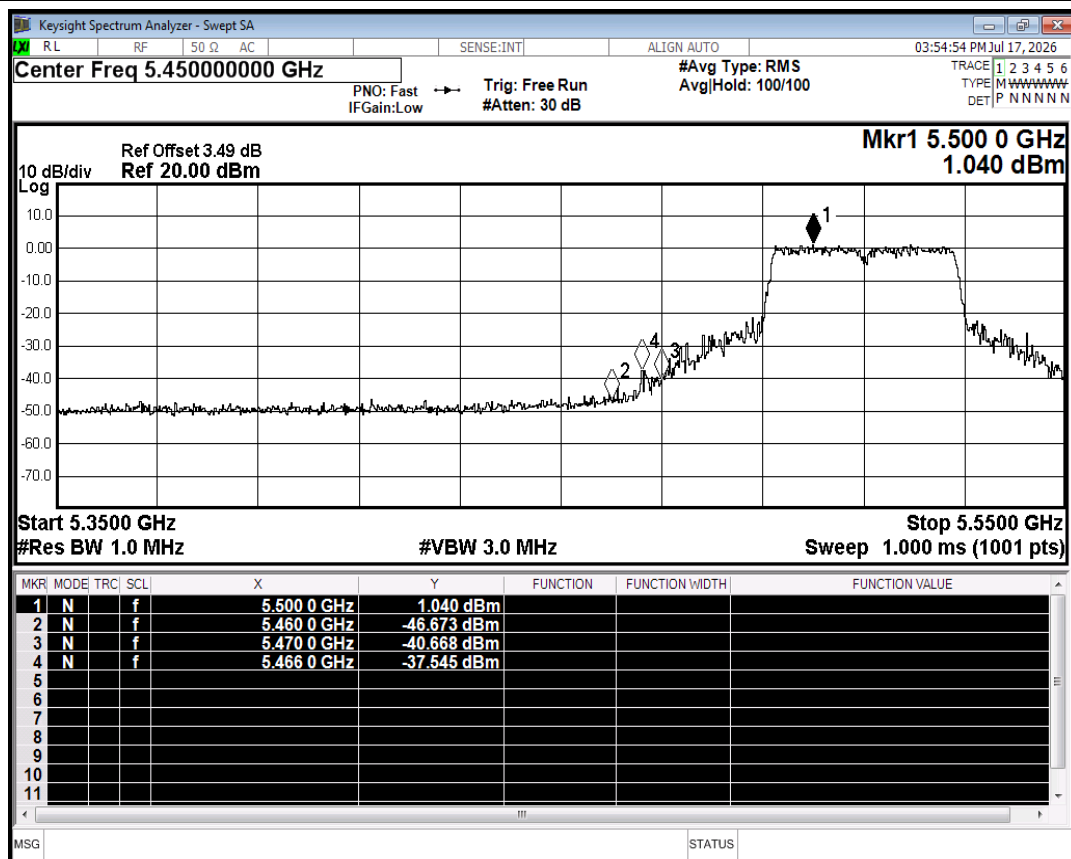
Restrict Band NVNT ac20 5500MHz Ant1 Average



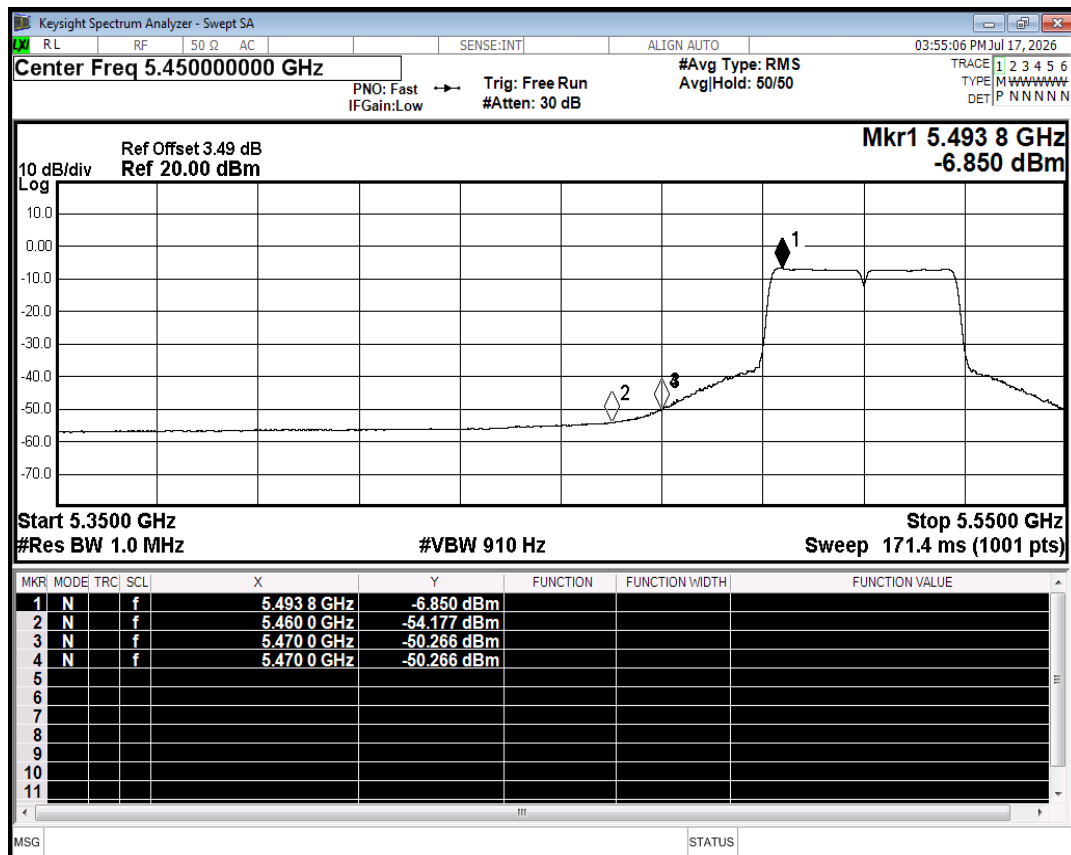
Restrict Band NVNT ac20 5700MHz Ant1 Peak



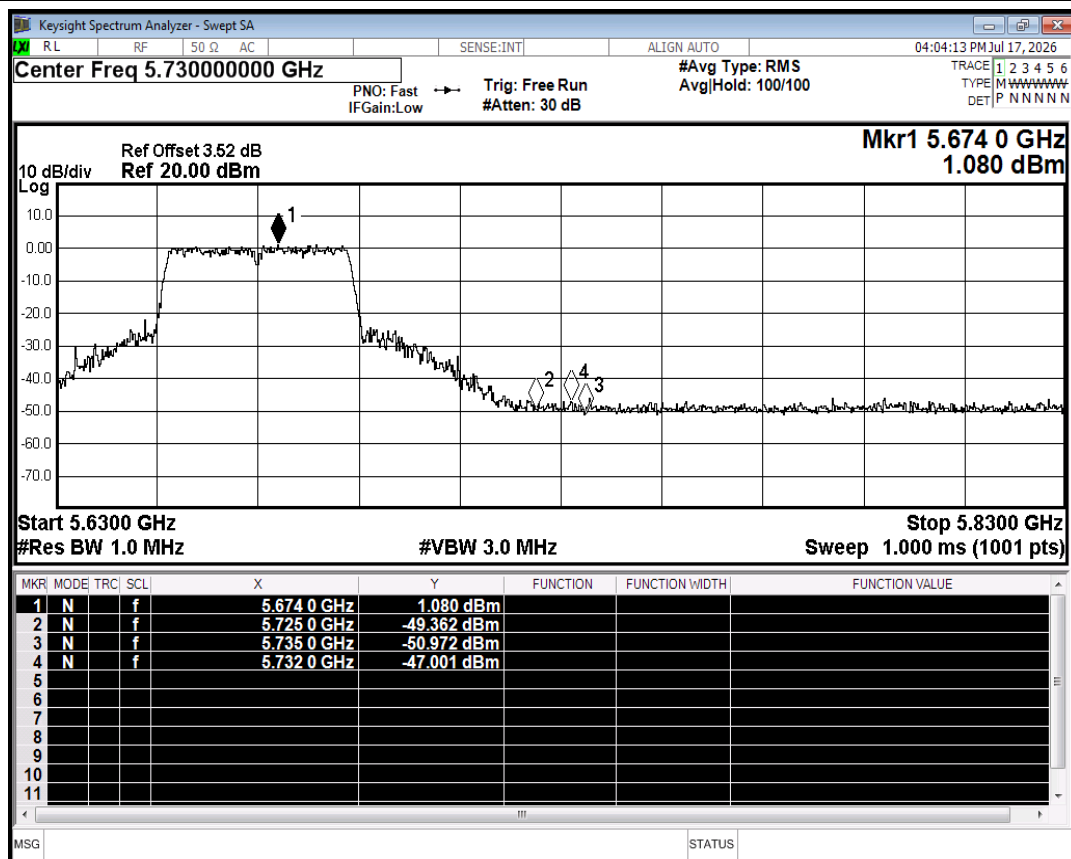
Restrict Band NVNT ac20 5700MHz Ant1 Average



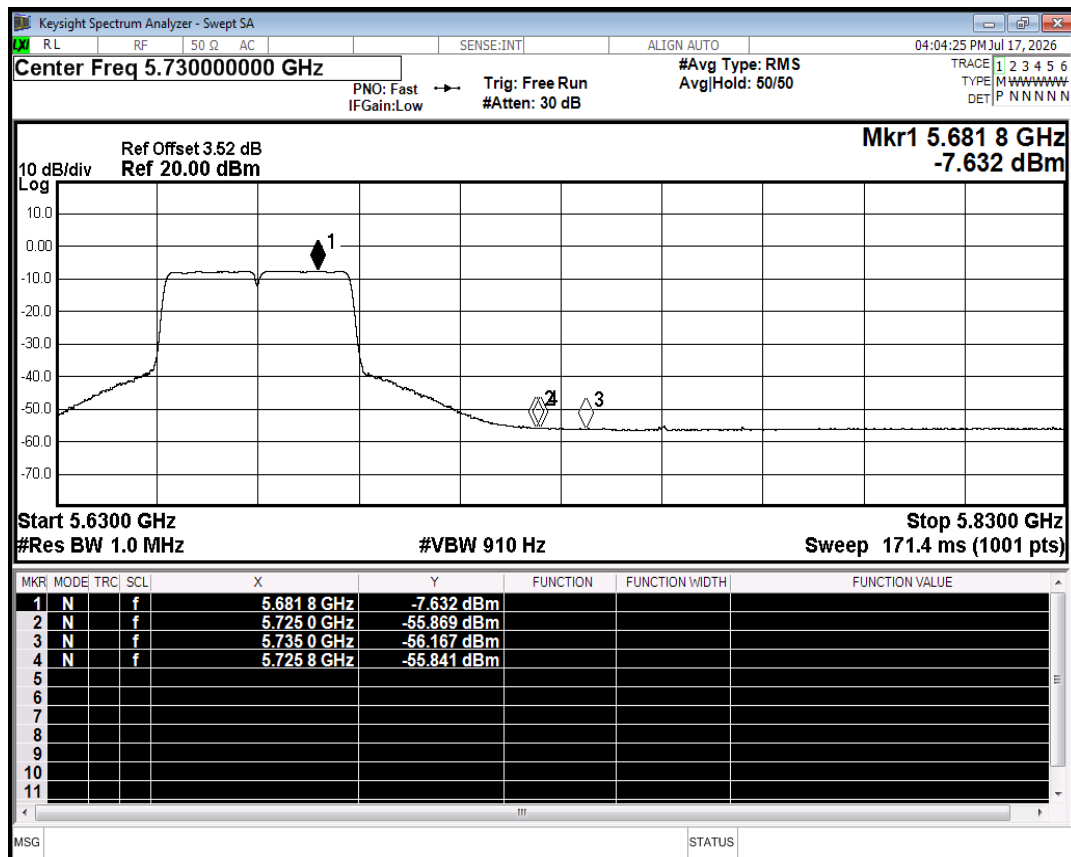
Restrict Band NVNT ac40 5510MHz Ant1 Peak



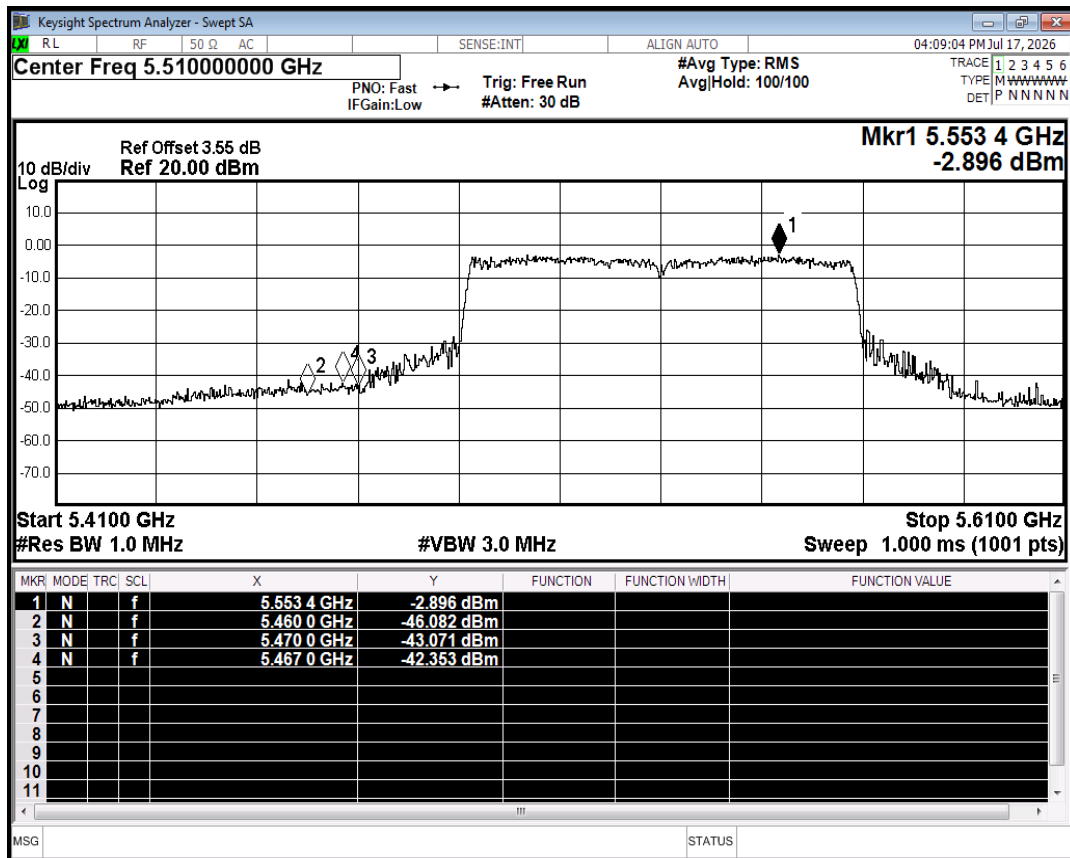
Restrict Band NVNT ac40 5510MHz Ant1 Average



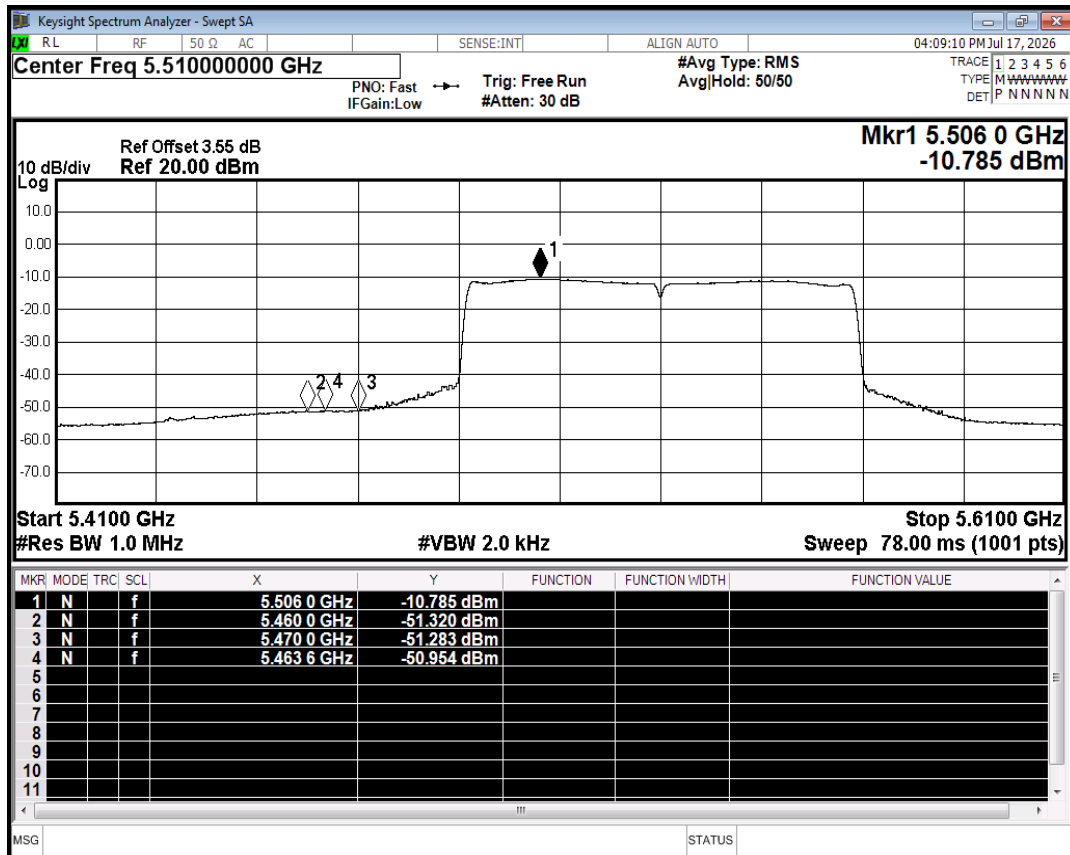
Restrict Band NVNT ac40 5670MHz Ant1 Peak



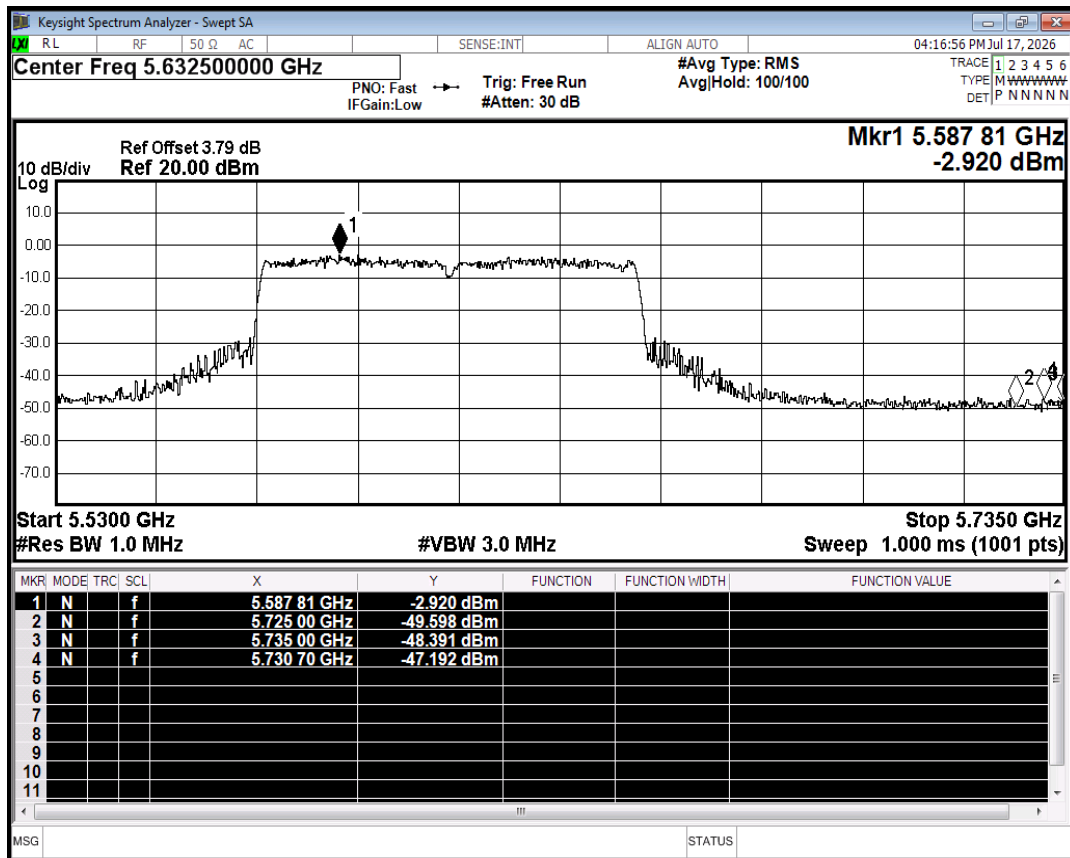
Restrict Band NVNT ac40 5670MHz Ant1 Average



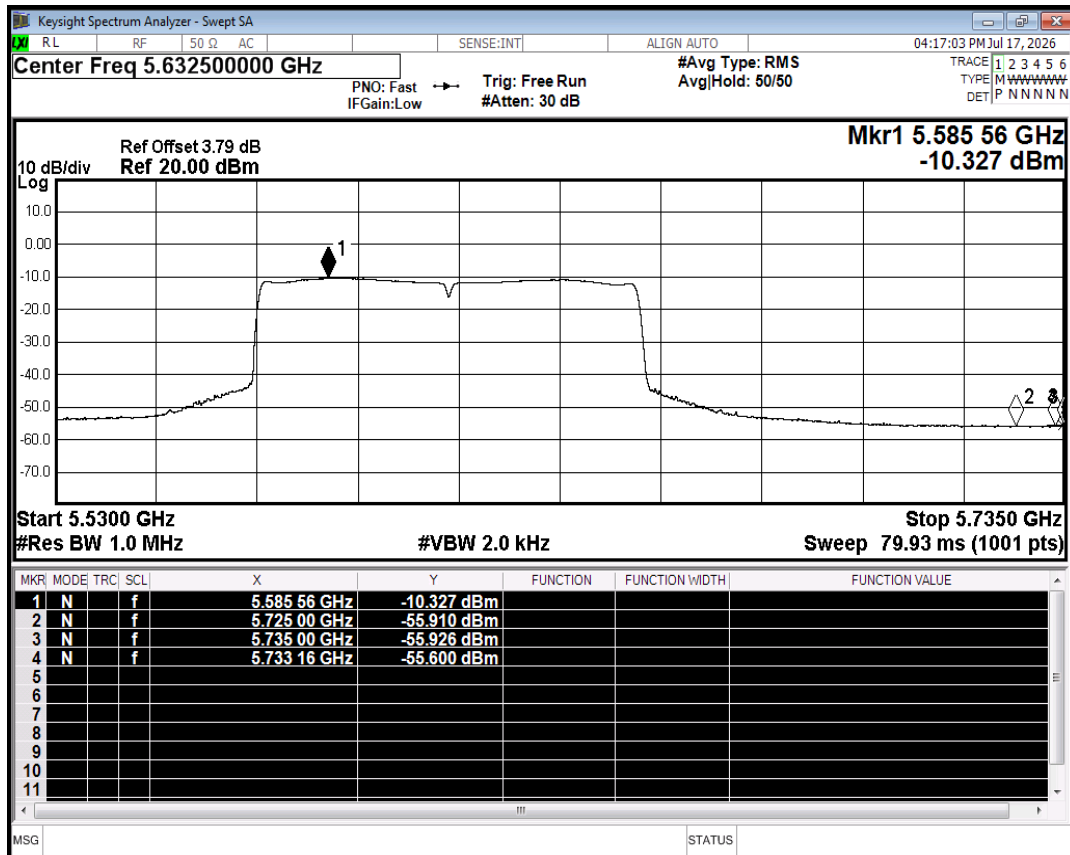
Restrict Band NVNT ac80 5530MHz Ant1 Peak



Restrict Band NVNT ac80 5530MHz Ant1 Average



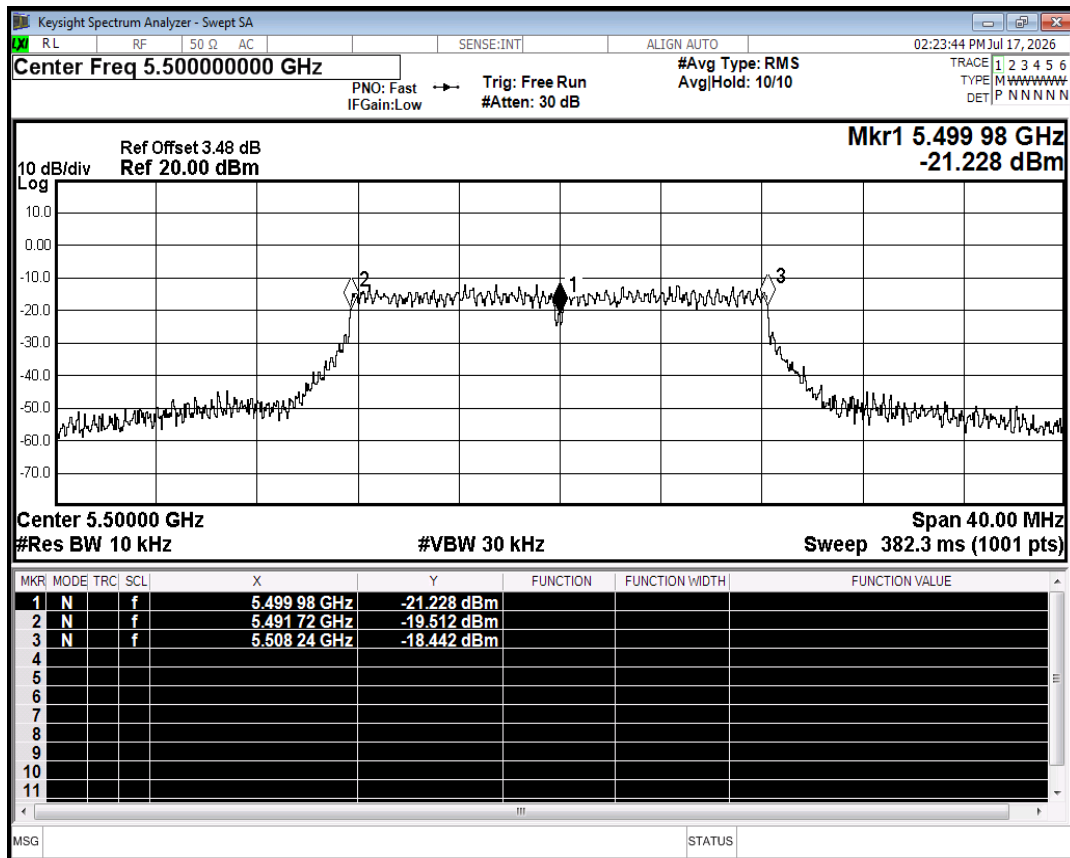
Restrict Band NVNT ac80 5610MHz Ant1 Peak



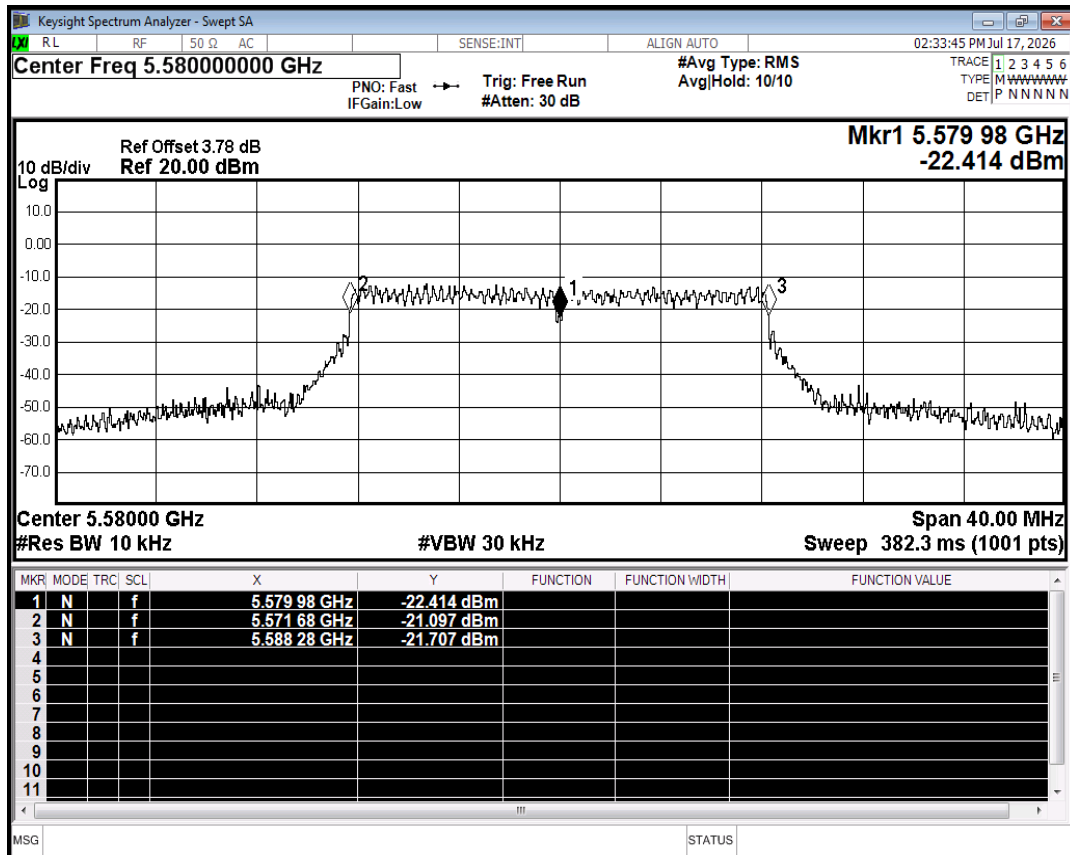
Restrict Band NVNT ac80 5610MHz Ant1 Average

E.5 Frequency Stability

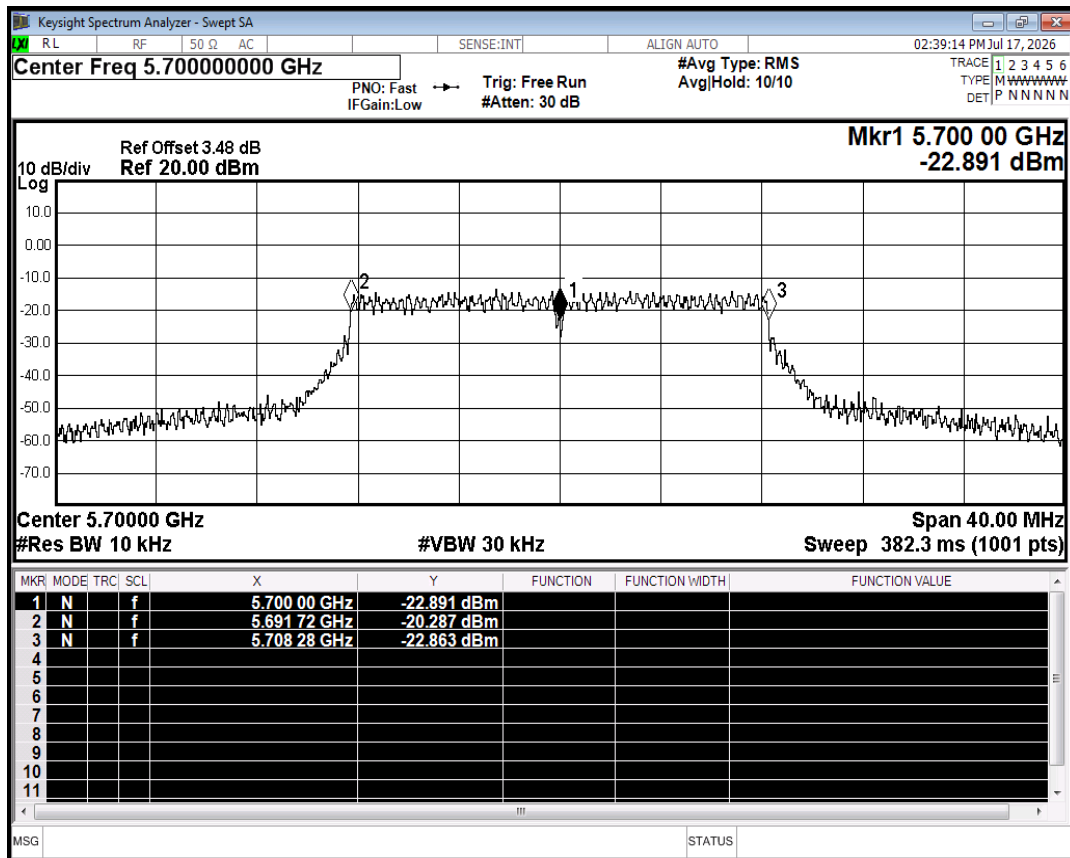
Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	a	5500	Ant1	5499.98	-20000	-3.64	25	Pass
NVNT	a	5580	Ant1	5579.98	-20000	-3.58	25	Pass
NVNT	a	5700	Ant1	5700	0	0	25	Pass
NVNT	n20	5500	Ant1	5499.98	-20000	-3.64	25	Pass
NVNT	n20	5580	Ant1	5579.96	-40000	-7.17	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	5550	0	0	25	Pass
NVNT	n40	5670	Ant1	5669.96	-40000	-7.05	25	Pass
NVNT	ac20	5500	Ant1	5499.98	-20000	-3.64	25	Pass
NVNT	ac20	5580	Ant1	5579.96	-40000	-7.17	25	Pass
NVNT	ac20	5700	Ant1	5700	0	0	25	Pass
NVNT	ac40	5510	Ant1	5510	0	0	25	Pass
NVNT	ac40	5550	Ant1	5549.96	-40000	-7.21	25	Pass
NVNT	ac40	5670	Ant1	5669.96	-40000	-7.05	25	Pass
NVNT	ac80	5530	Ant1	5530	0	0	25	Pass
NVNT	ac80	5610	Ant1	5610	0	0	25	Pass



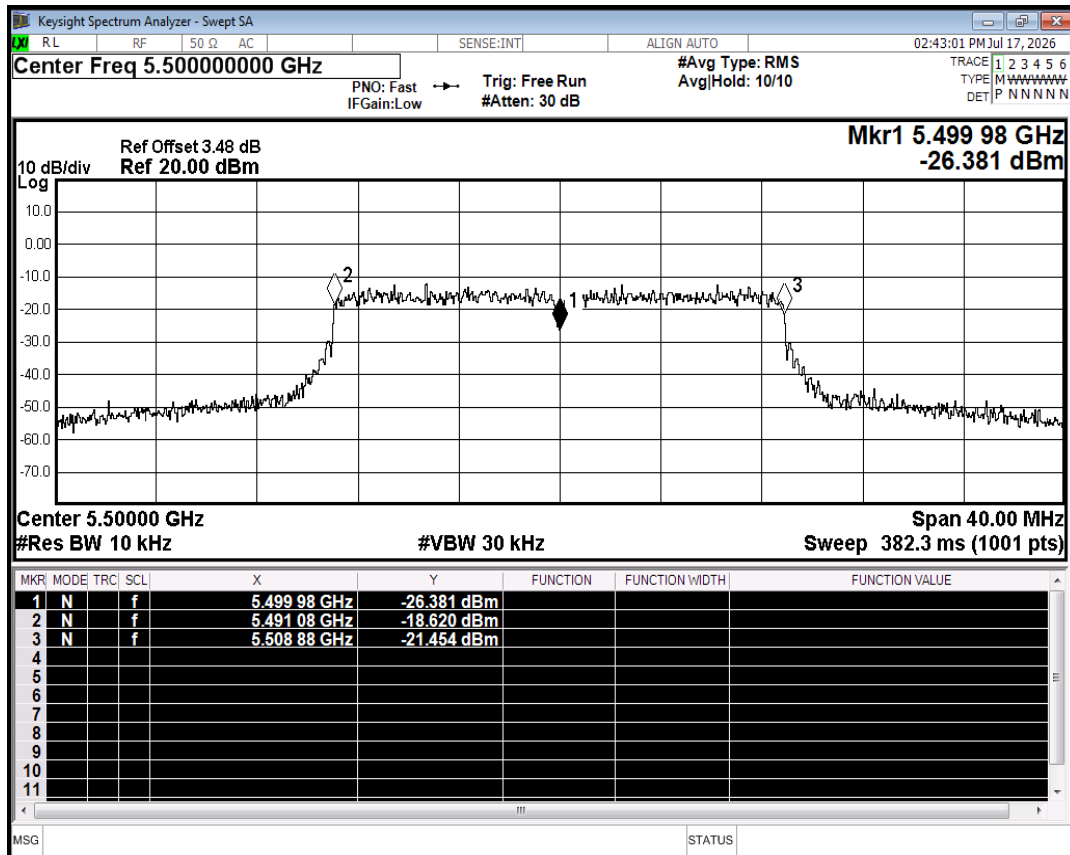
Freq. Stability NVNT a 5500MHz Ant1



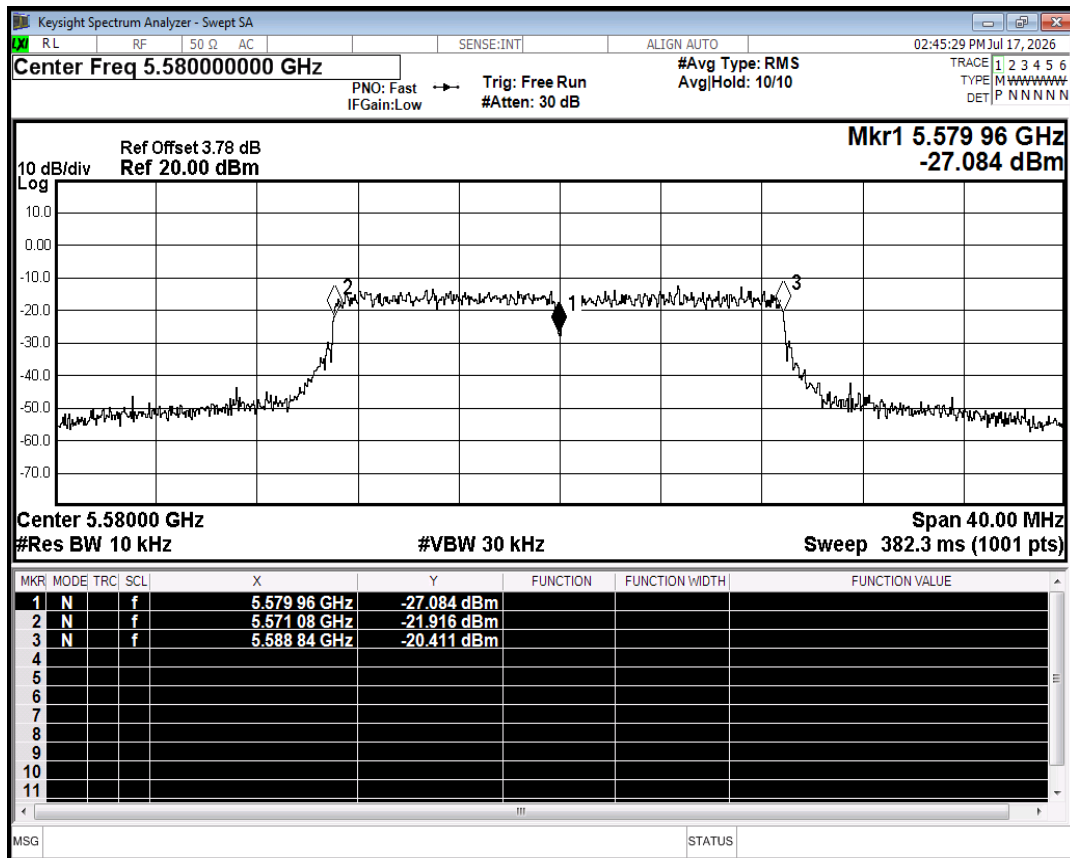
Freq. Stability NVNT a 5580MHz Ant1



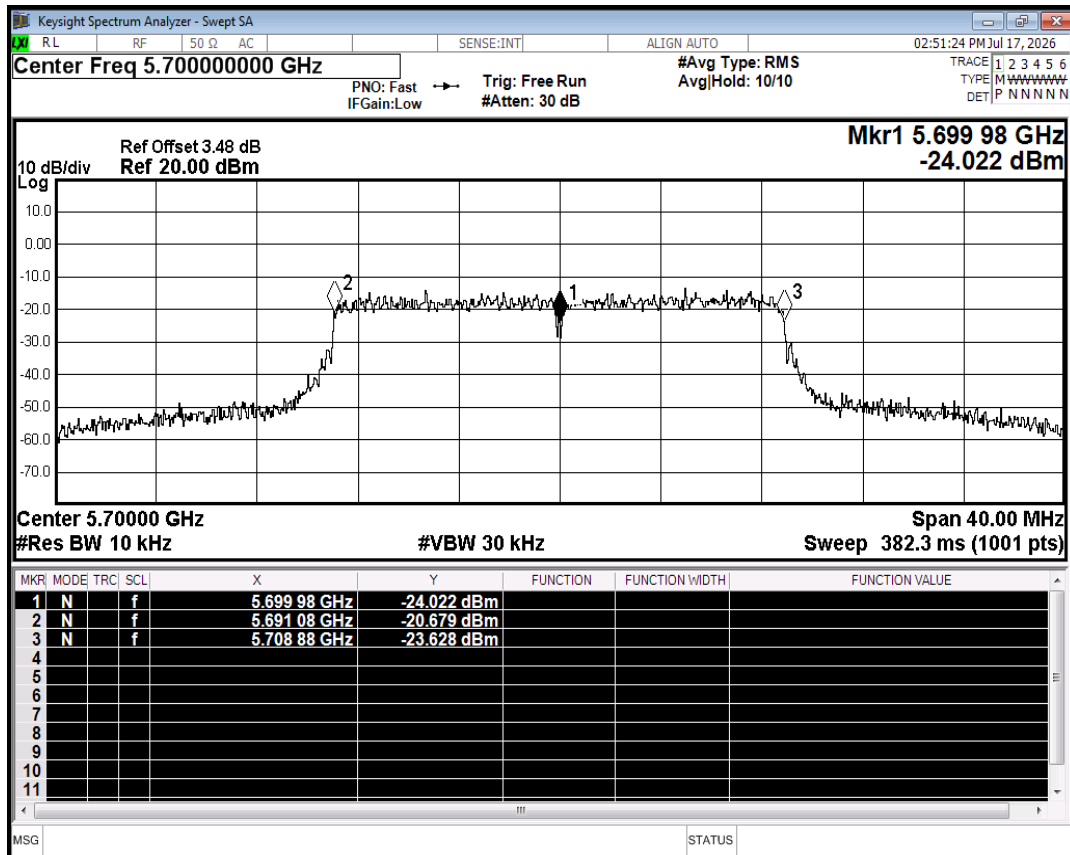
Freq. Stability NVNT a 5700MHz Ant1



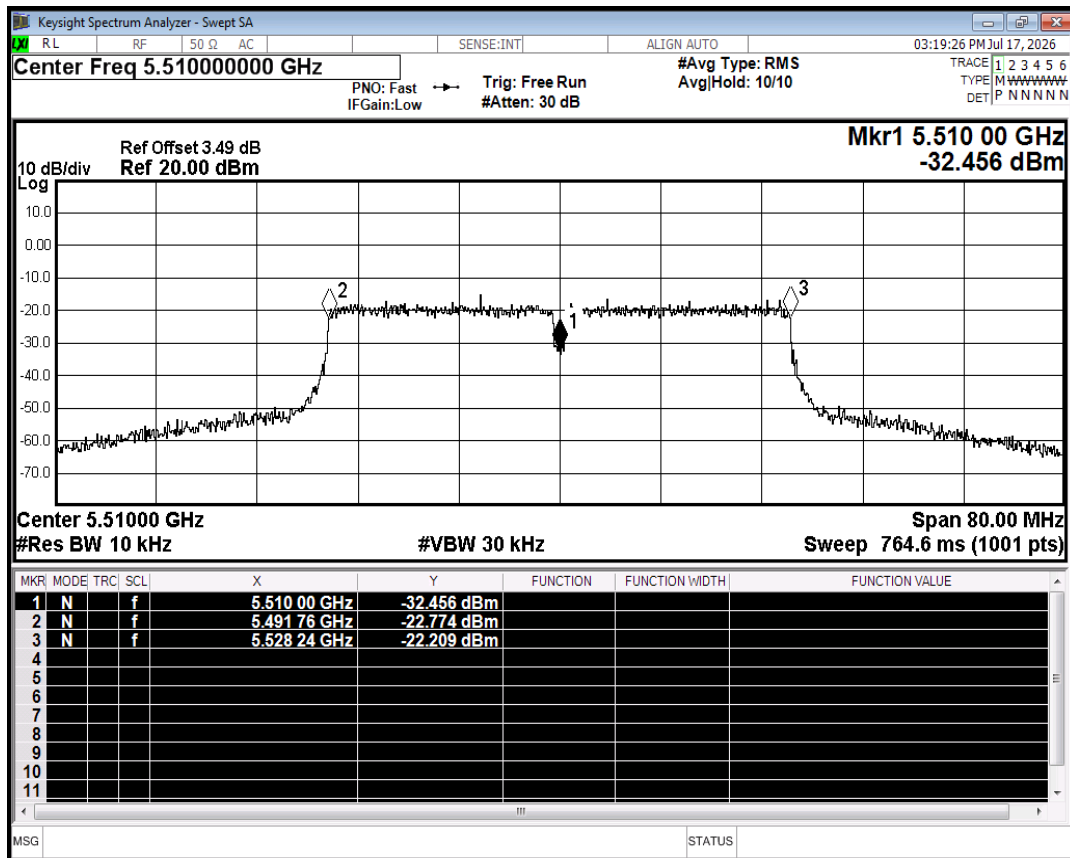
Freq. Stability NVNT n20 5500MHz Ant1



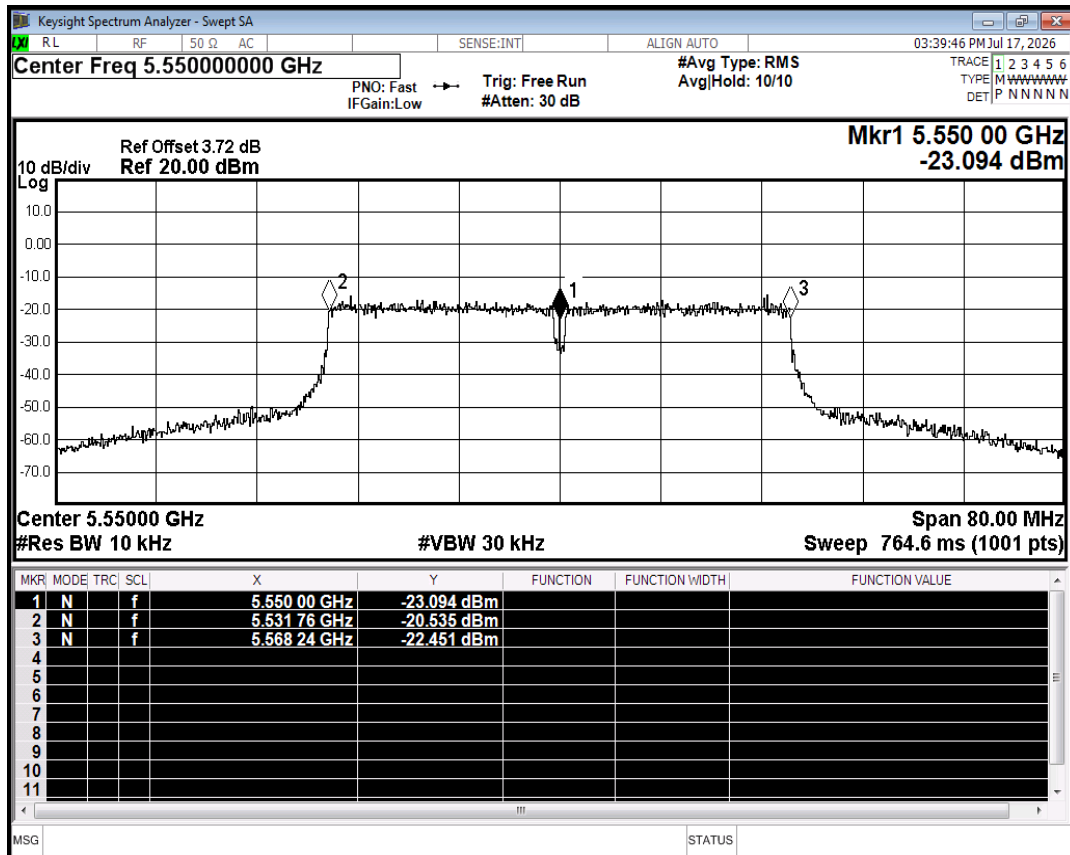
Freq. Stability NVNT n20 5580MHz Ant1



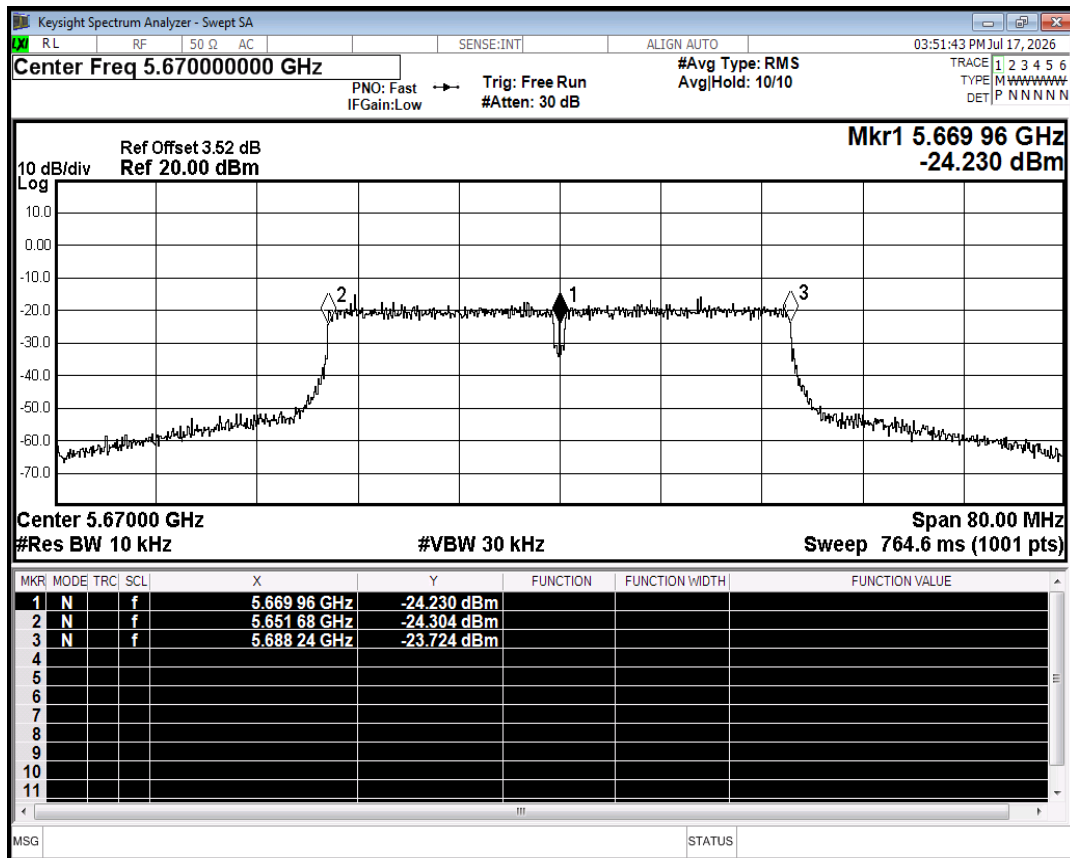
Freq. Stability NVNT n20 5700MHz Ant1



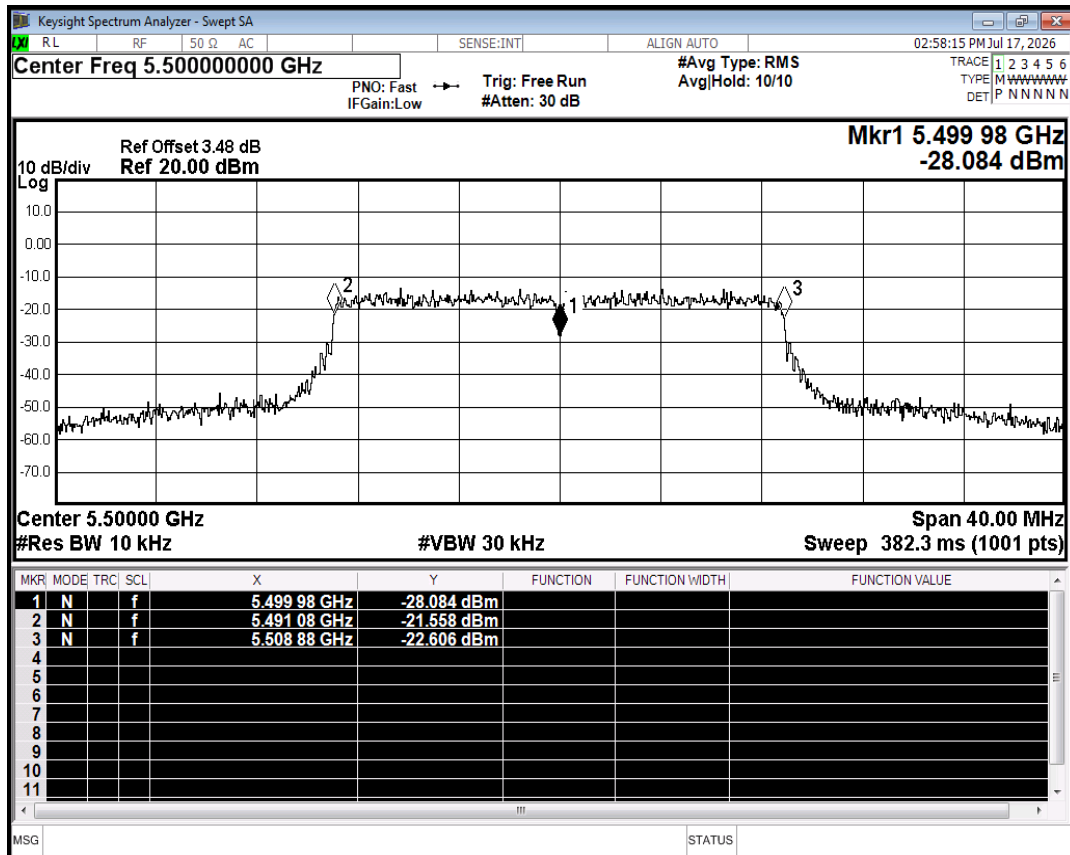
Freq. Stability NVNT n40 5510MHz Ant1



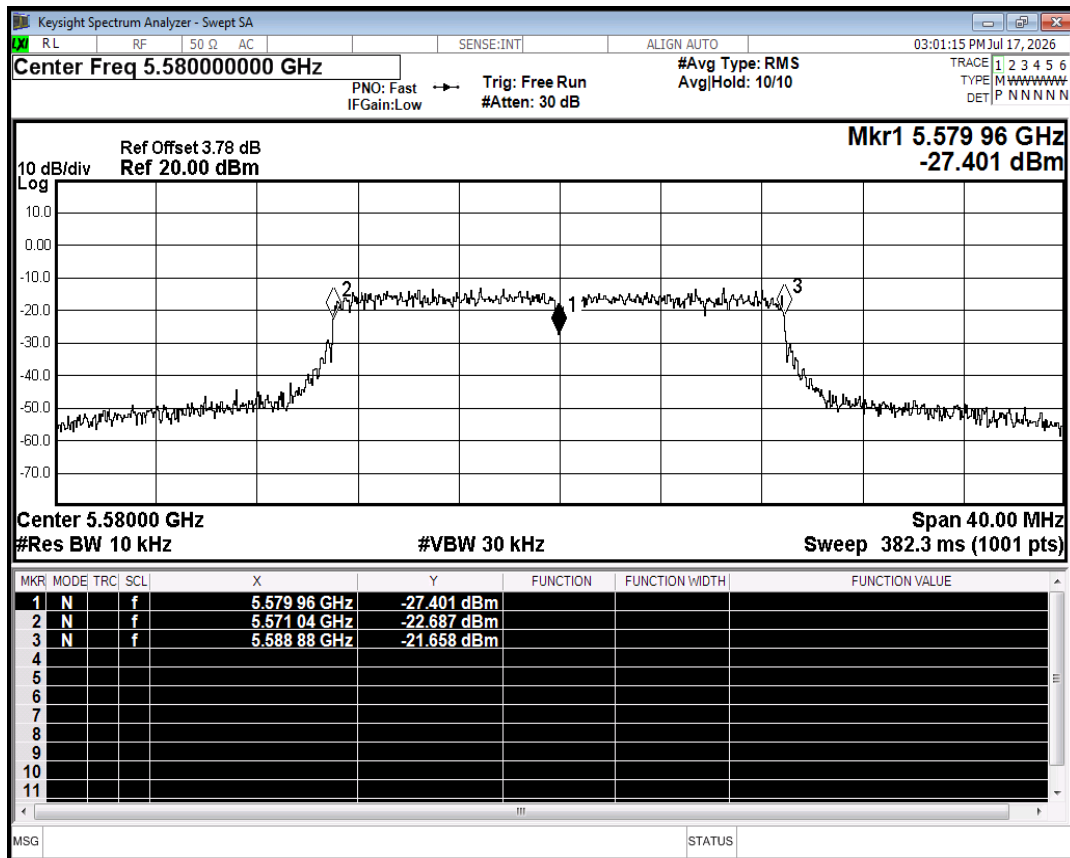
Freq. Stability NVNT n40 5550MHz Ant1



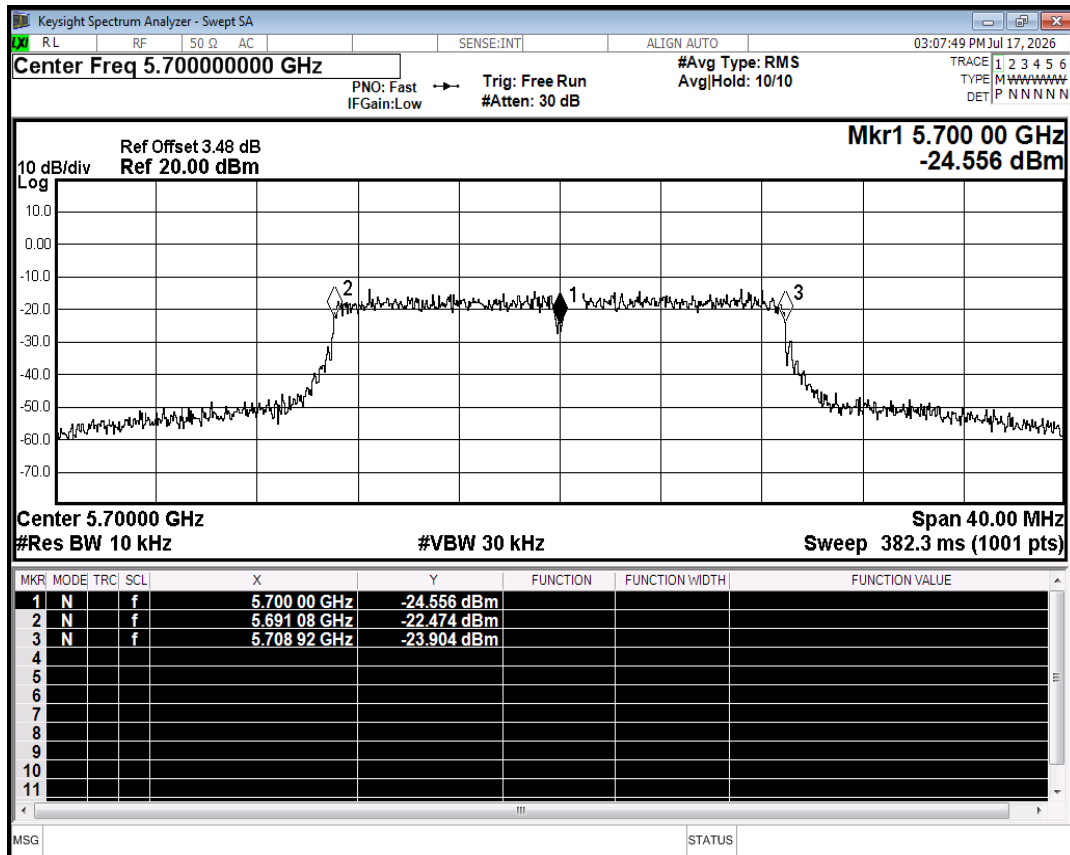
Freq. Stability NVNT n40 5670MHz Ant1



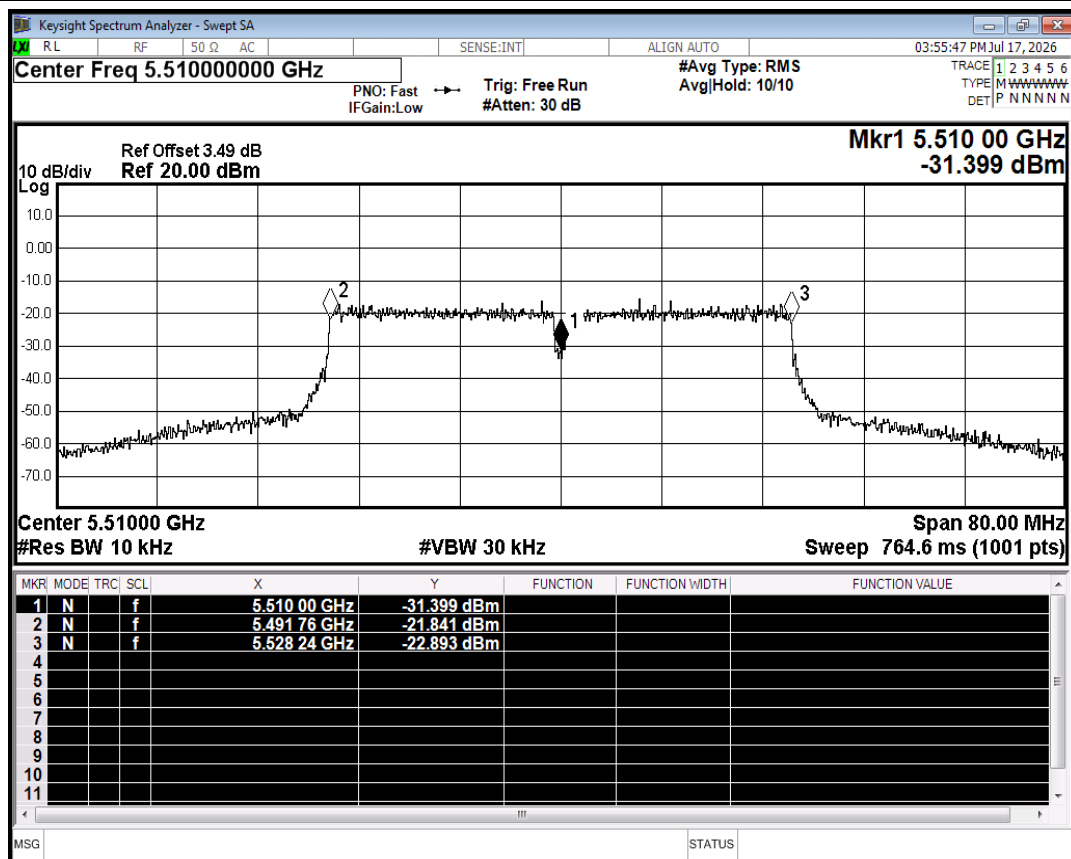
Freq. Stability NVNT ac20 5500MHz Ant1



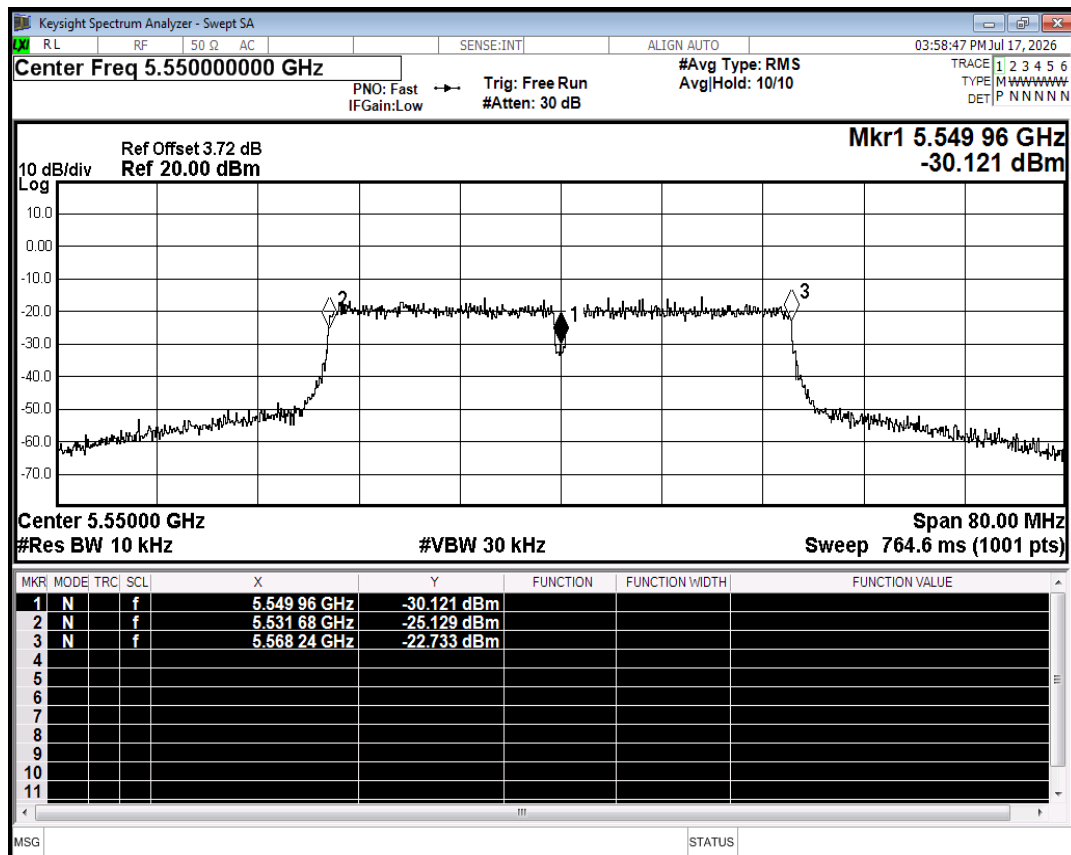
Freq. Stability NVNT ac20 5580MHz Ant1



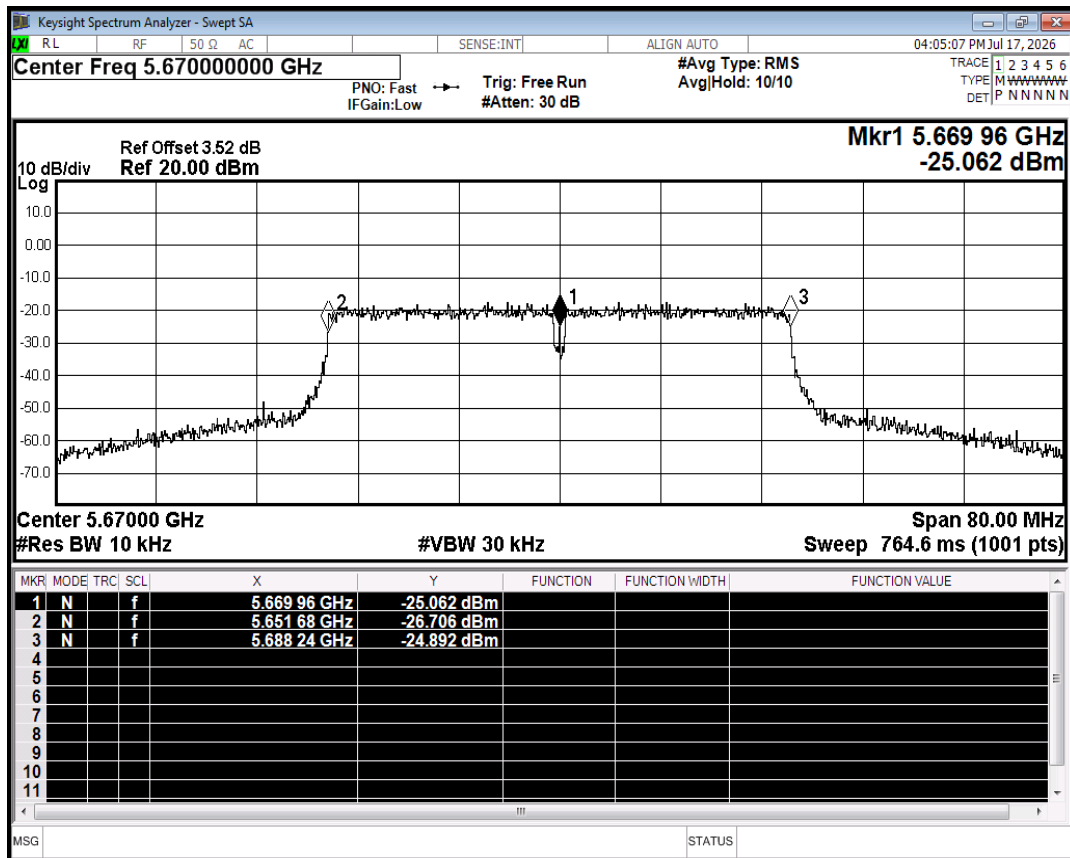
Freq. Stability NVNT ac20 5700MHz Ant1



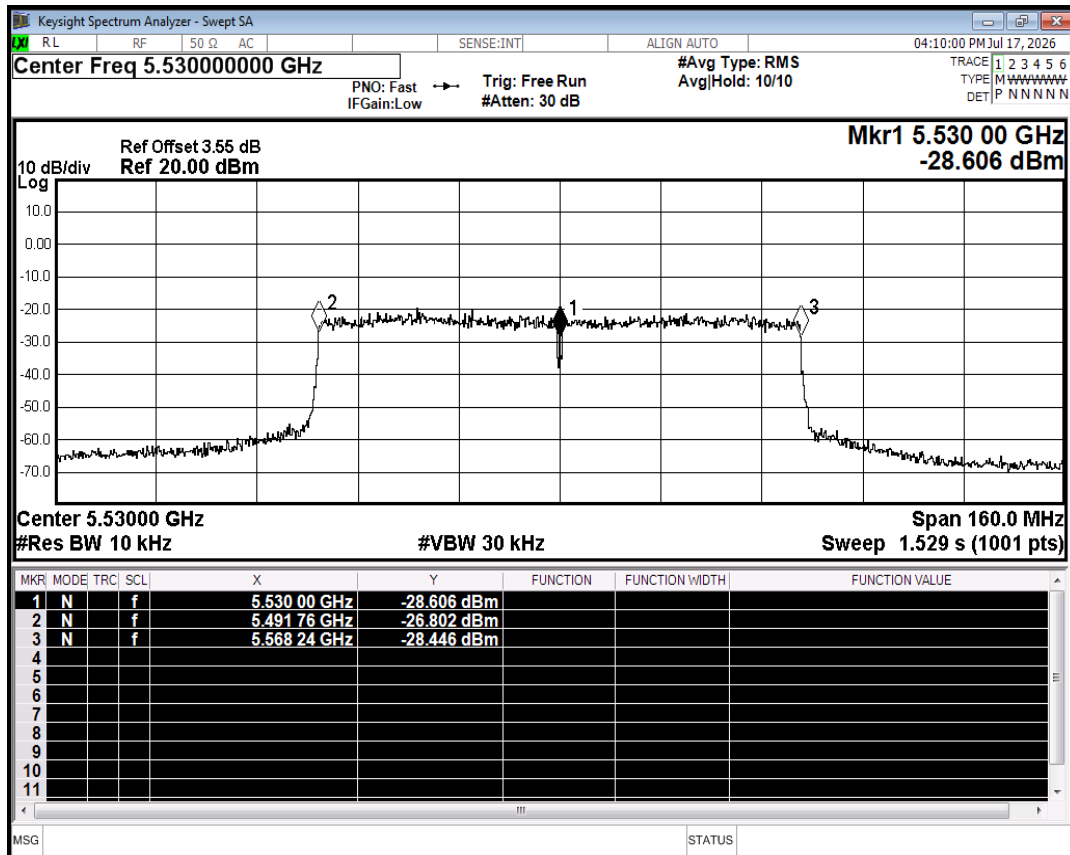
Freq. Stability NVNT ac40 5510MHz Ant1



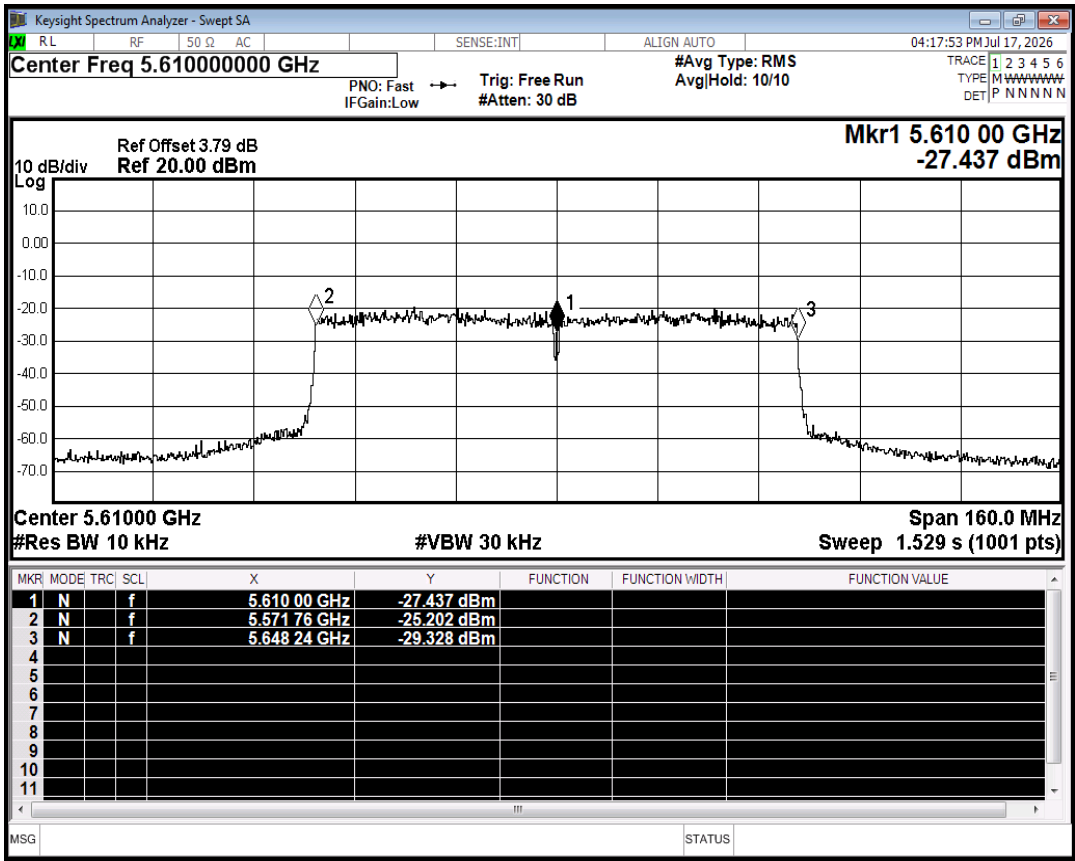
Freq. Stability NVNT ac40 5550MHz Ant1



Freq. Stability NVNT ac40 5670MHz Ant1



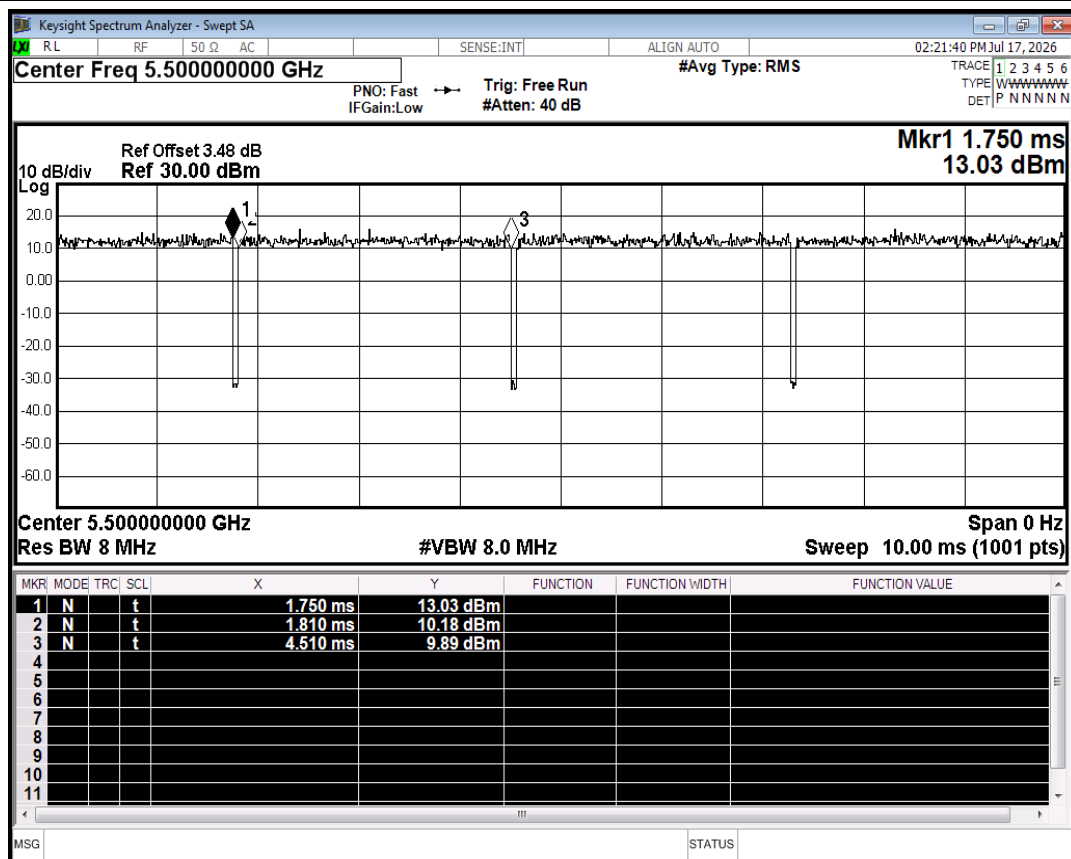
Freq. Stability NVNT ac80 5530MHz Ant1



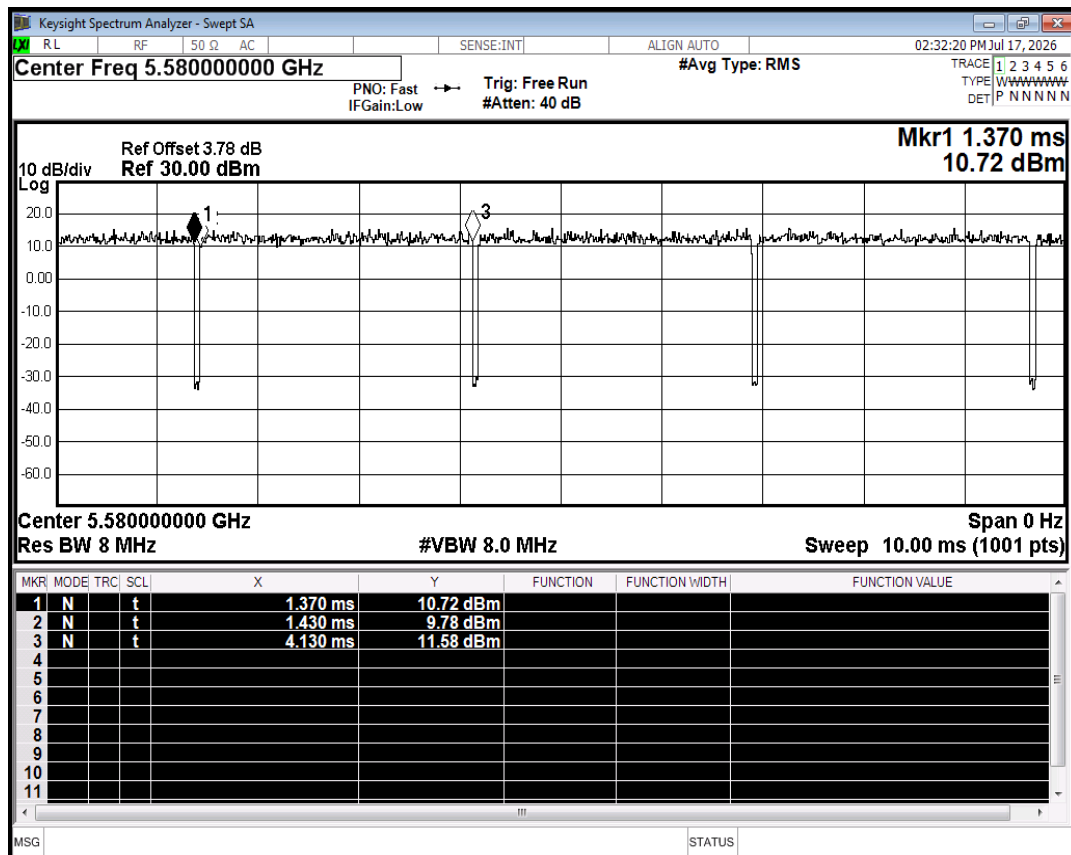
Freq. Stability NVNT ac80 5610MHz Ant1

E.6 Duty Cycle

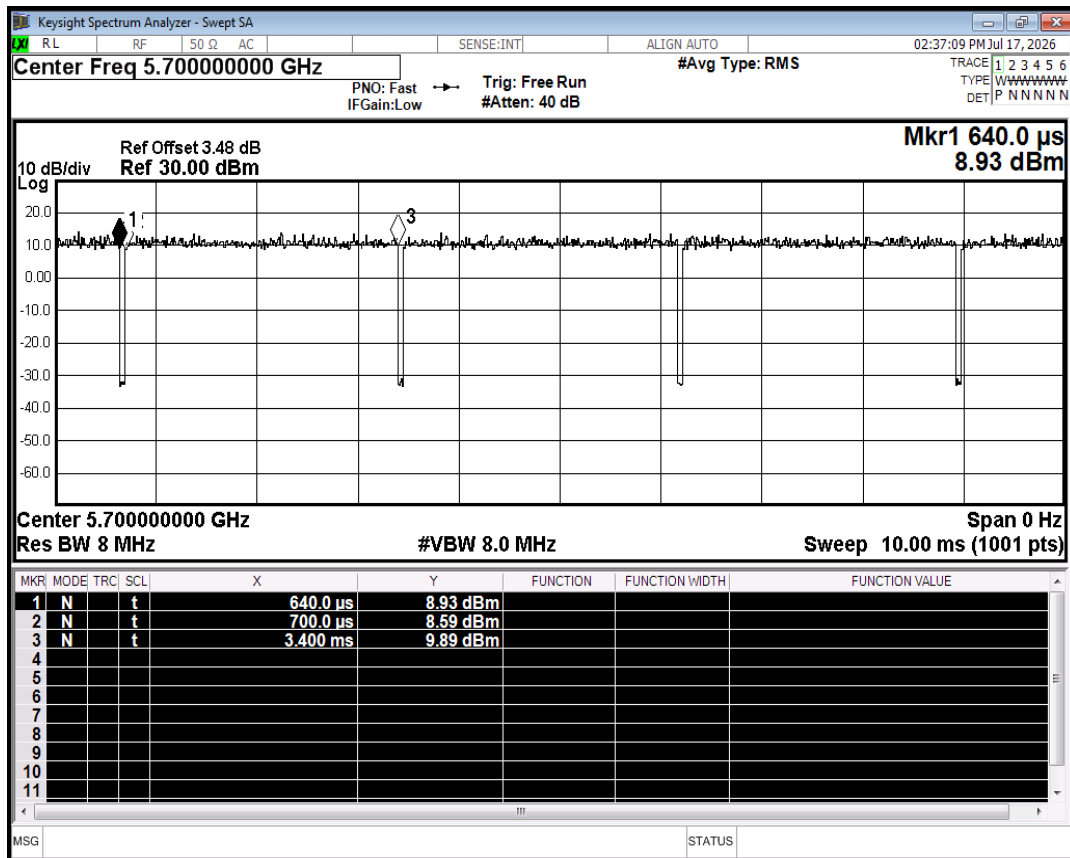
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5500	Ant1	97.83	0.1	0.37
NVNT	a	5580	Ant1	97.83	0.1	0.37
NVNT	a	5700	Ant1	97.83	0.1	0.37
NVNT	n20	5500	Ant1	97.41	0.11	0.44
NVNT	n20	5580	Ant1	97	0.13	0.44
NVNT	n20	5700	Ant1	97.41	0.11	0.44
NVNT	n40	5510	Ant1	94.87	0.23	0.9
NVNT	n40	5550	Ant1	94.87	0.23	0.9
NVNT	n40	5670	Ant1	94.87	0.23	0.9
NVNT	ac20	5500	Ant1	97.42	0.11	0.44
NVNT	ac20	5580	Ant1	97.42	0.11	0.44
NVNT	ac20	5700	Ant1	97.42	0.11	0.44
NVNT	ac40	5510	Ant1	94.92	0.23	0.89
NVNT	ac40	5550	Ant1	94.92	0.23	0.89
NVNT	ac40	5670	Ant1	94.92	0.23	0.89
NVNT	ac80	5530	Ant1	88.33	0.54	1.89
NVNT	ac80	5610	Ant1	90	0.46	1.85



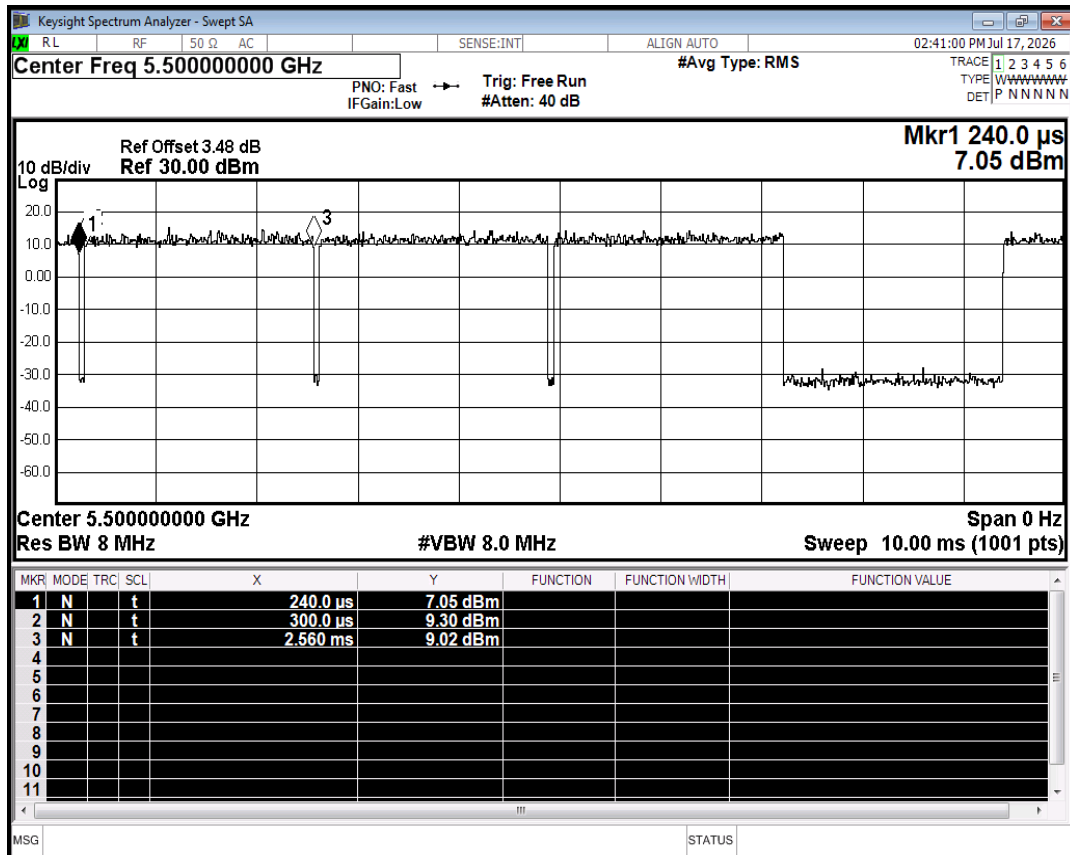
Duty Cycle NVNT a 5500MHz Ant1



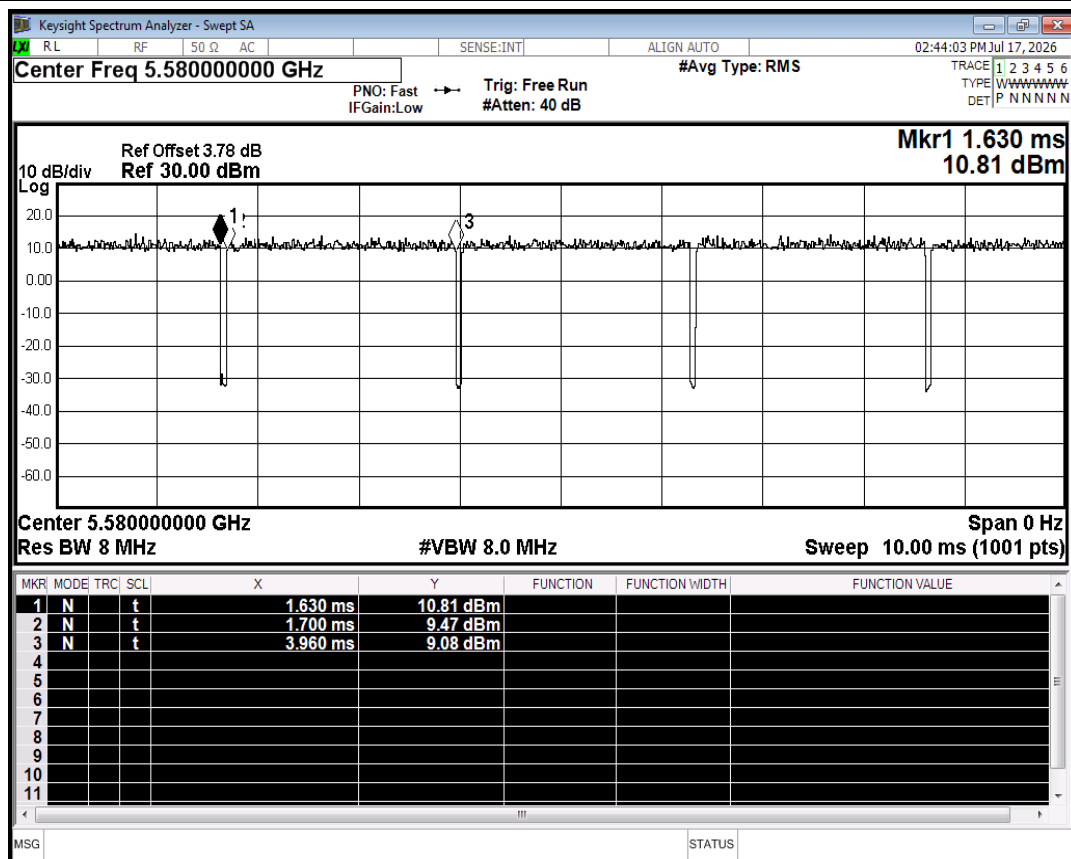
Duty Cycle NVNT a 5580MHz Ant1



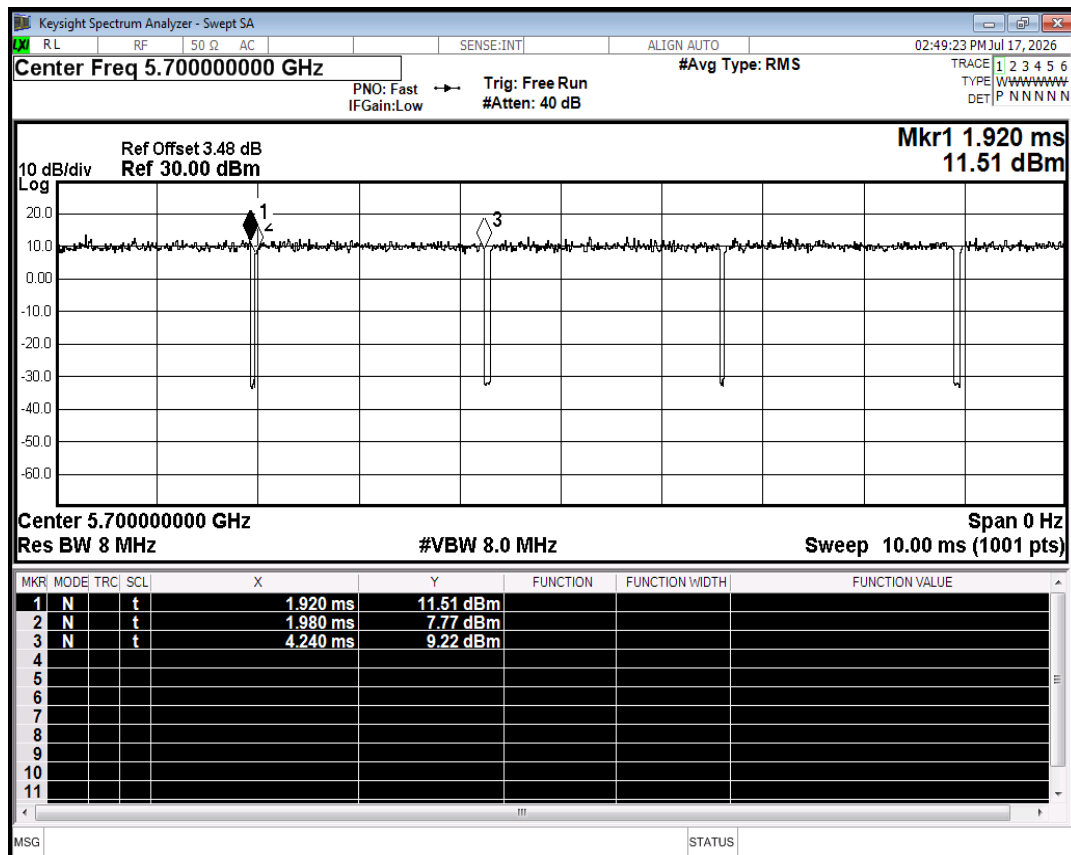
Duty Cycle NVNT a 5700MHz Ant1



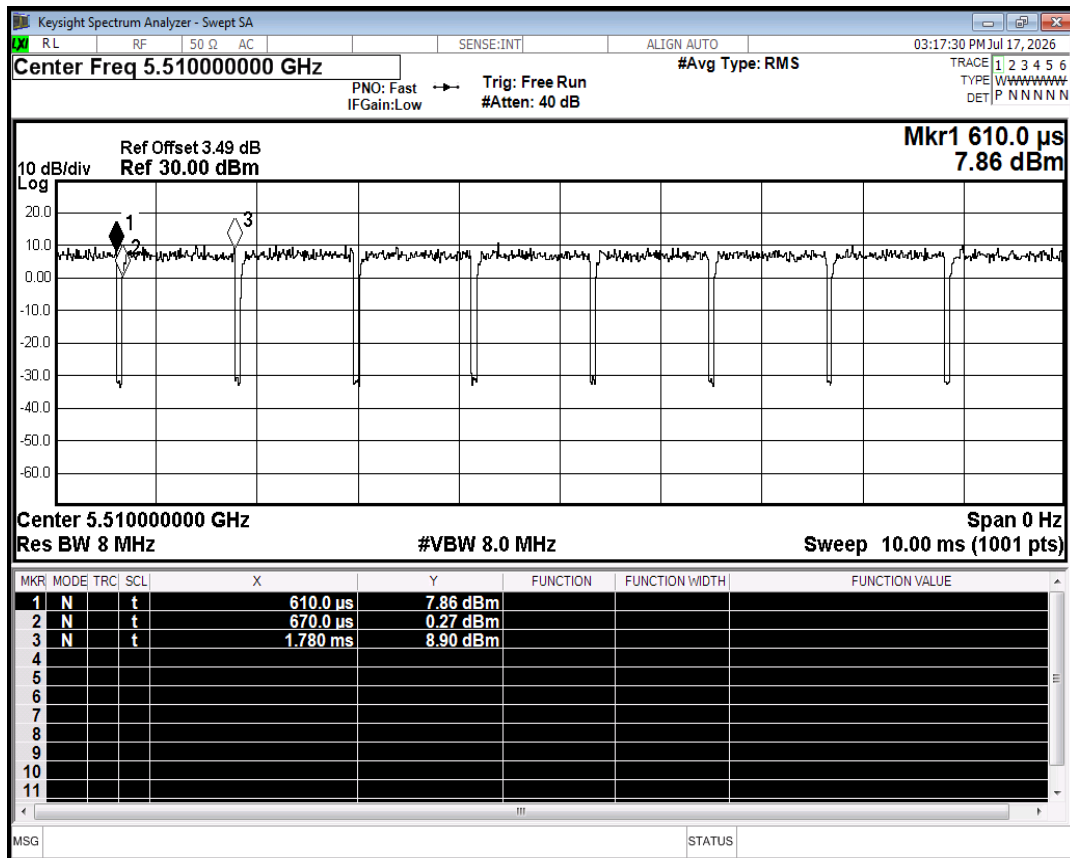
Duty Cycle NVNT n20 5500MHz Ant1



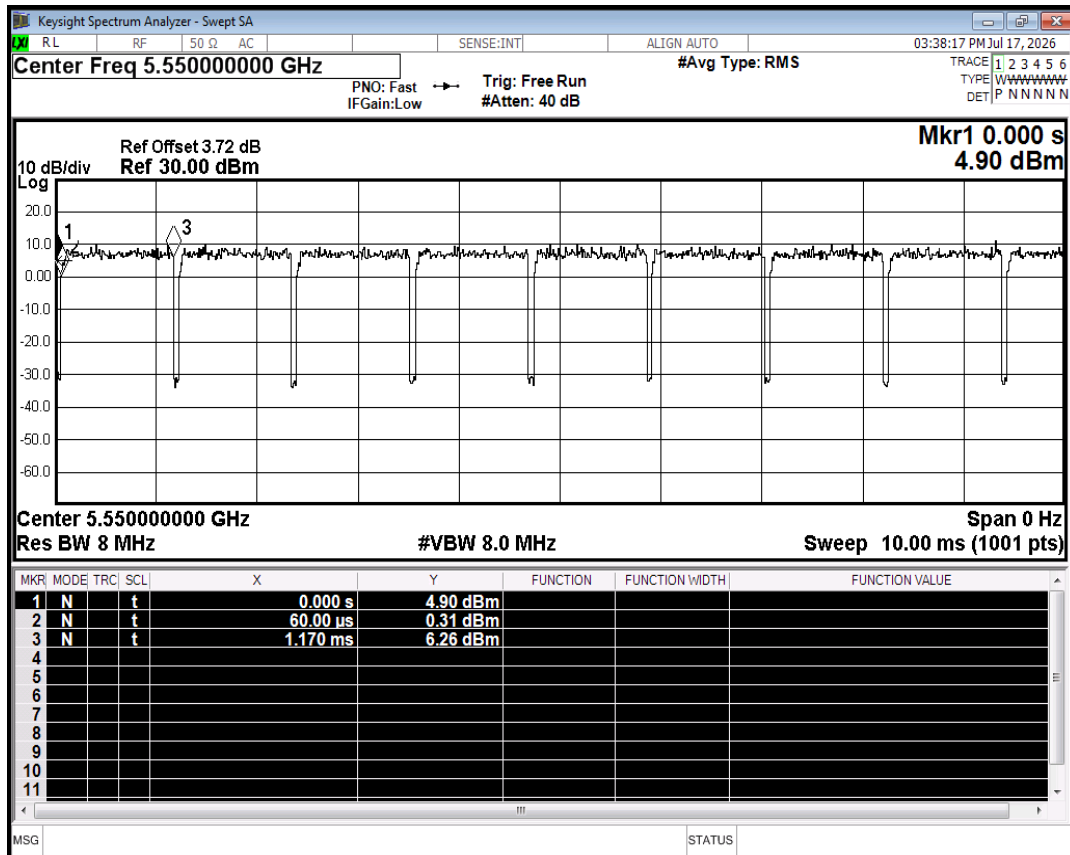
Duty Cycle NVNT n20 5580MHz Ant1



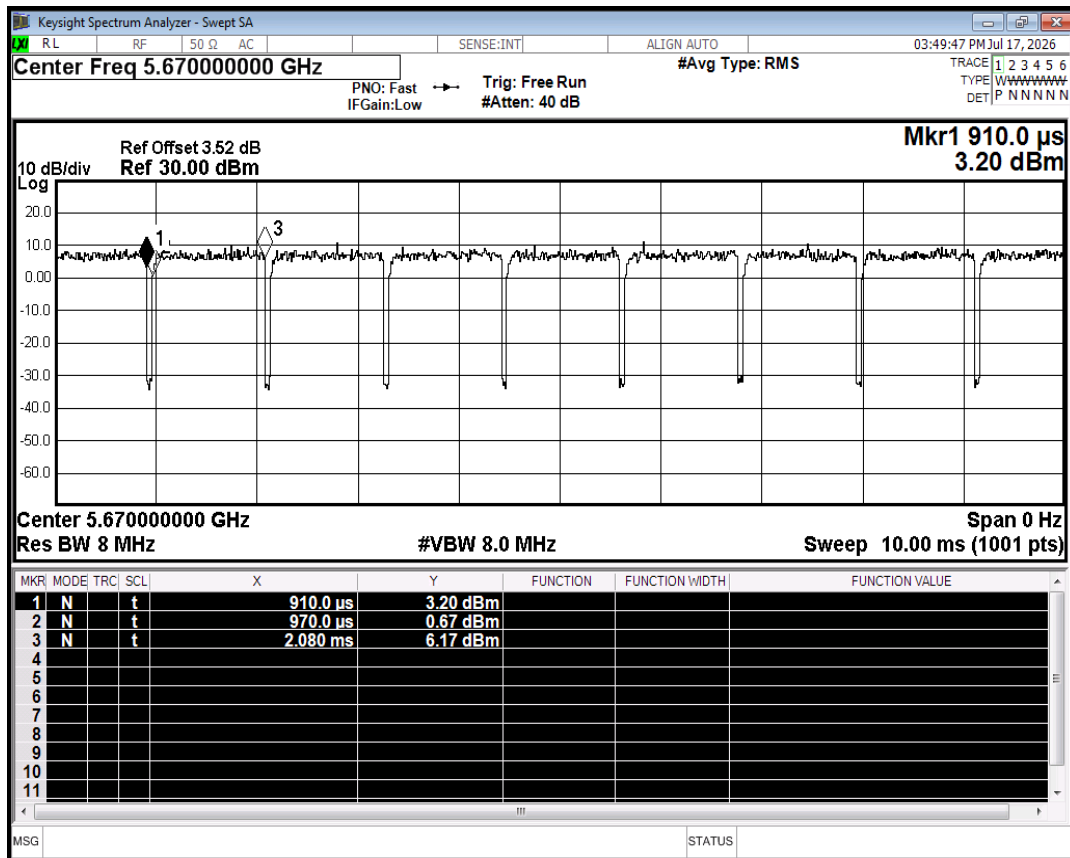
Duty Cycle NVNT n20 5700MHz Ant1



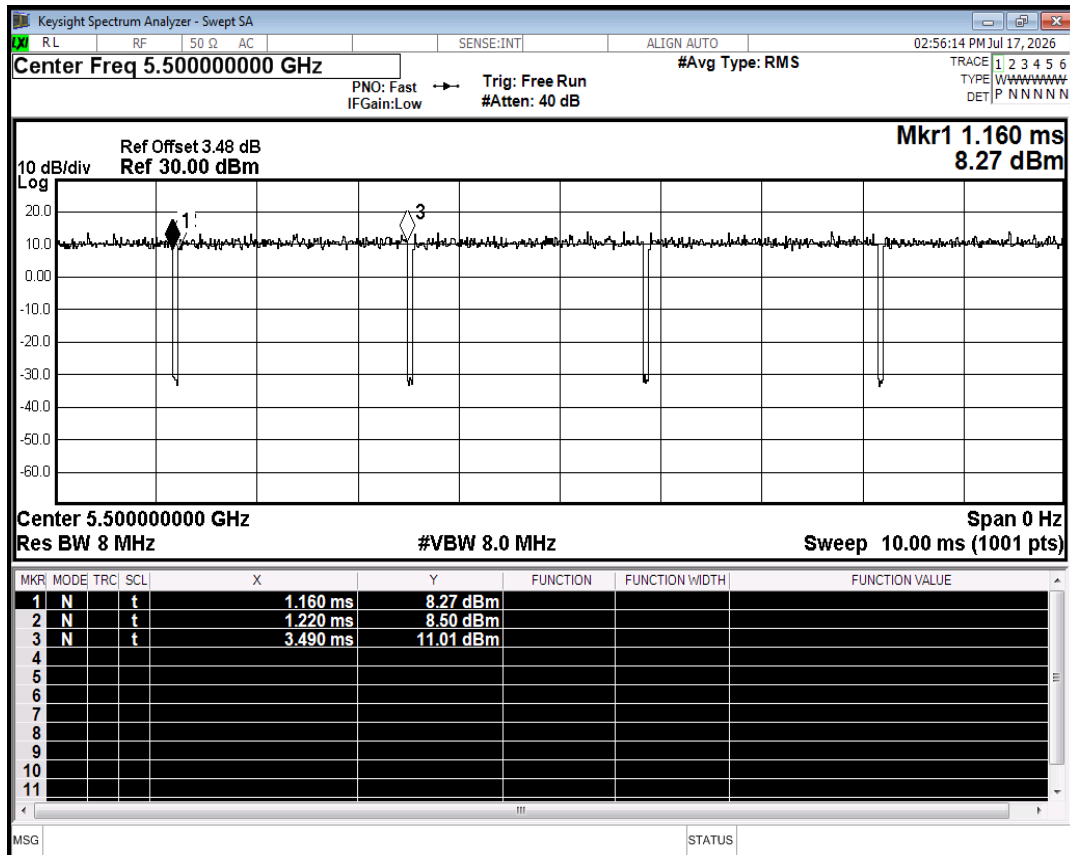
Duty Cycle NVNT n40 5510MHz Ant1



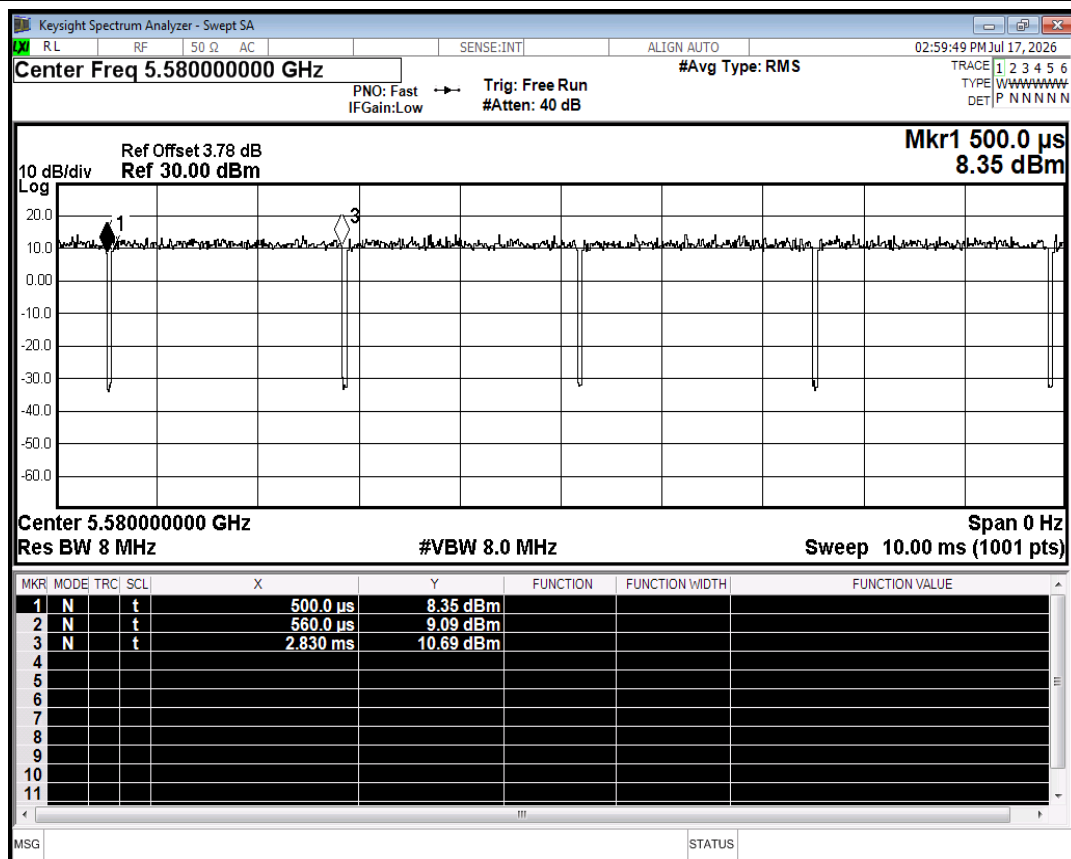
Duty Cycle NVNT n40 5550MHz Ant1



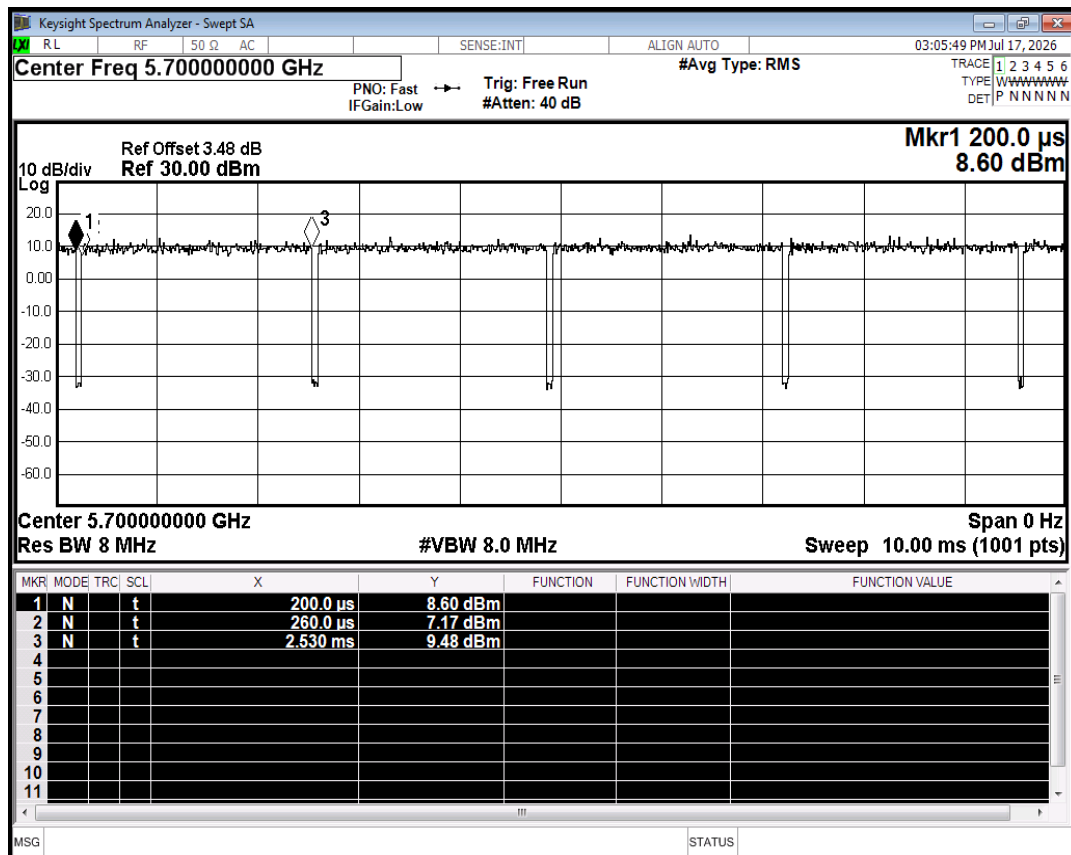
Duty Cycle NVNT n40 5670MHz Ant1



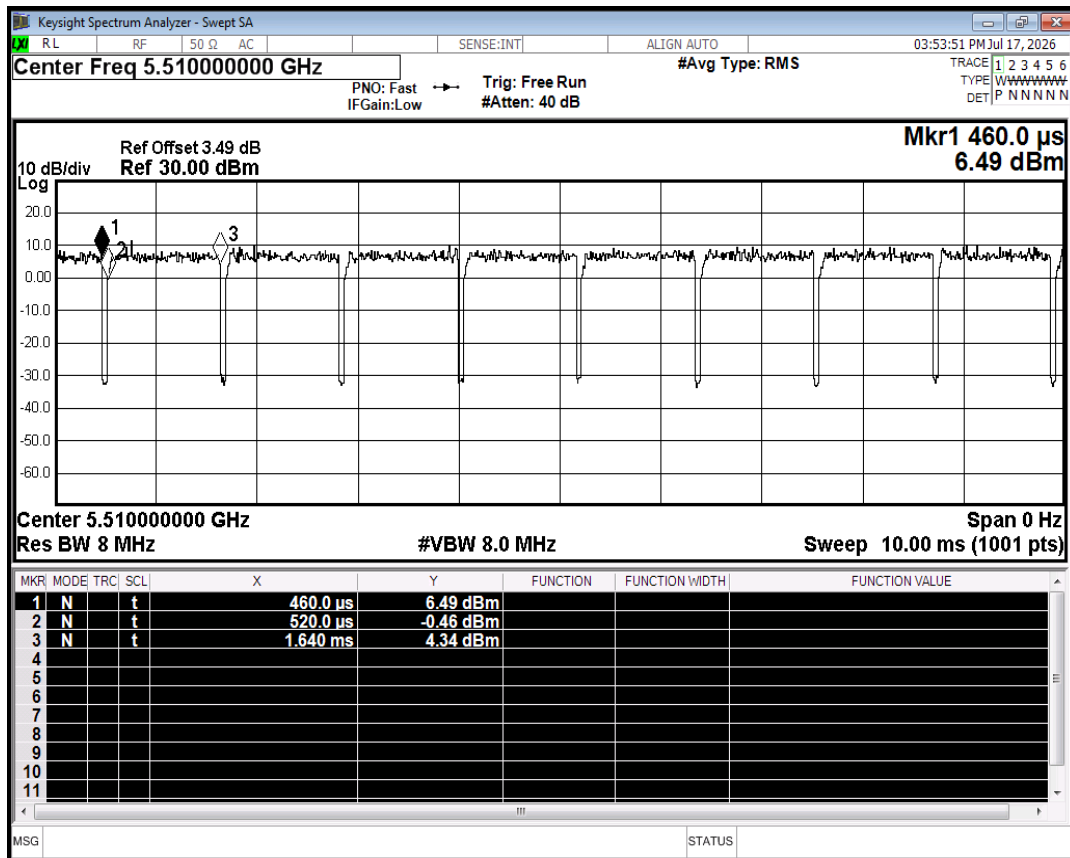
Duty Cycle NVNT ac20 5500MHz Ant1



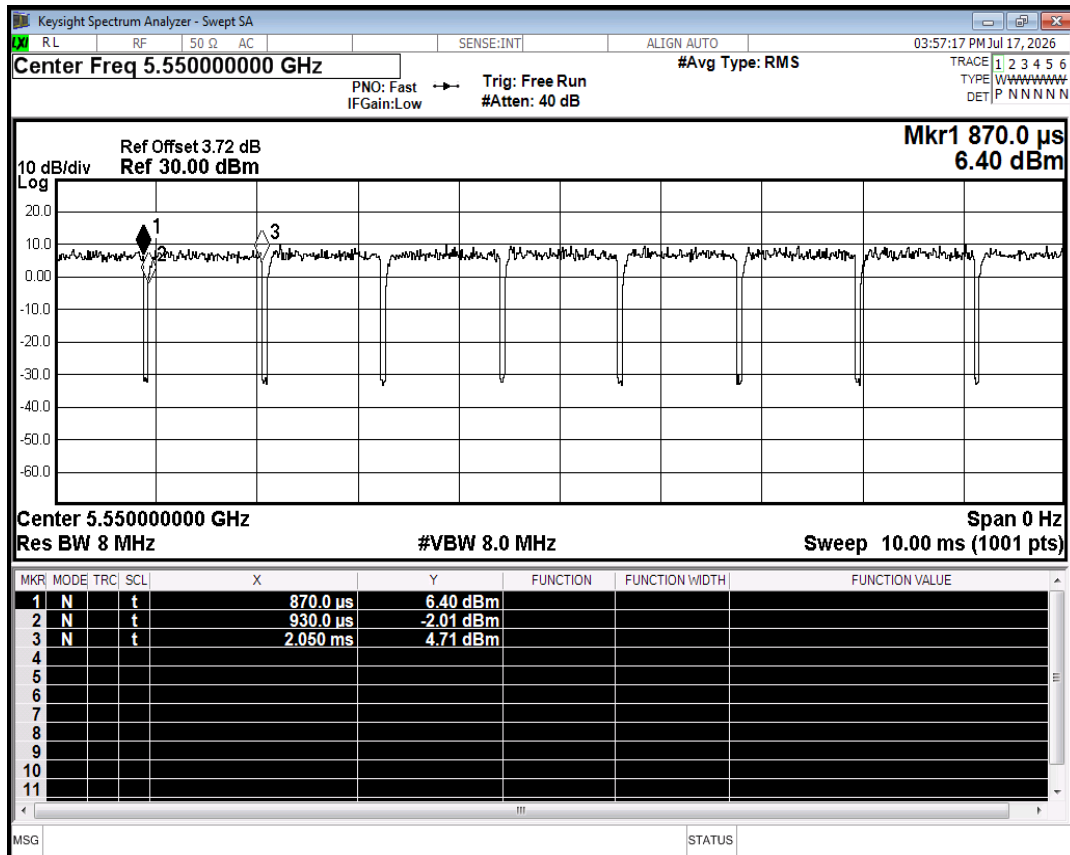
Duty Cycle NVNT ac20 5580MHz Ant1



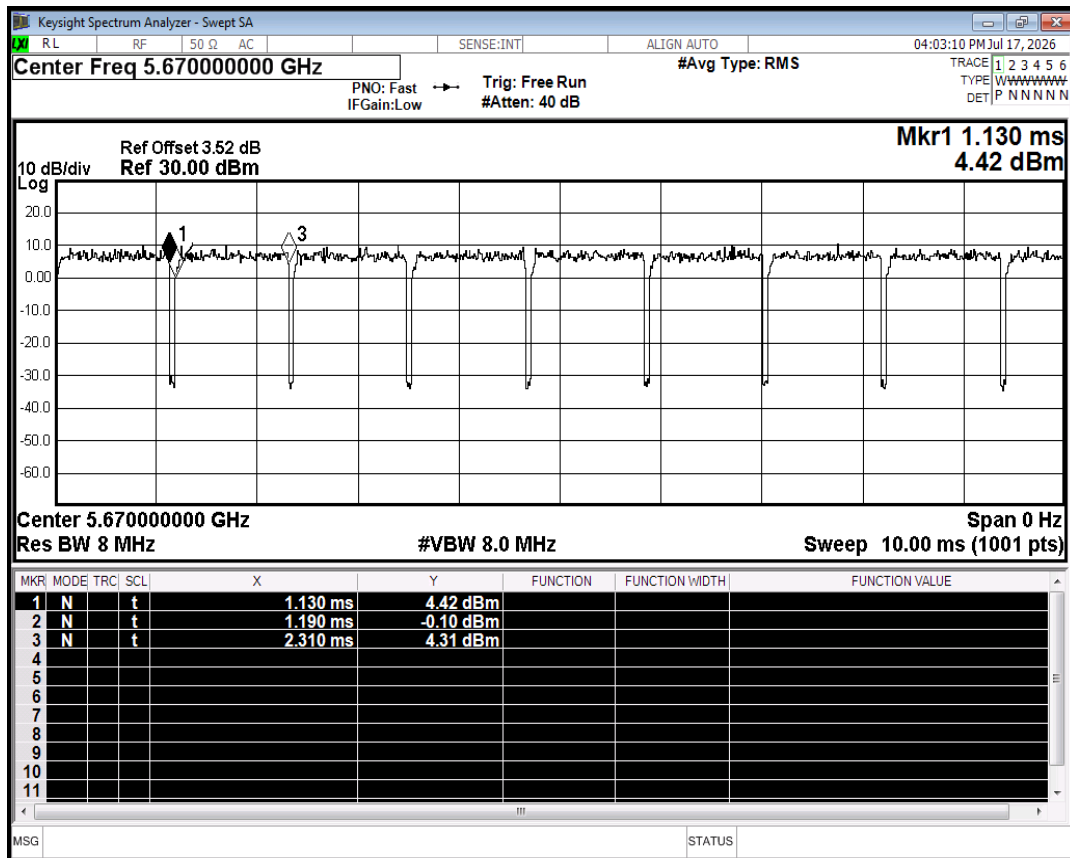
Duty Cycle NVNT ac20 5700MHz Ant1



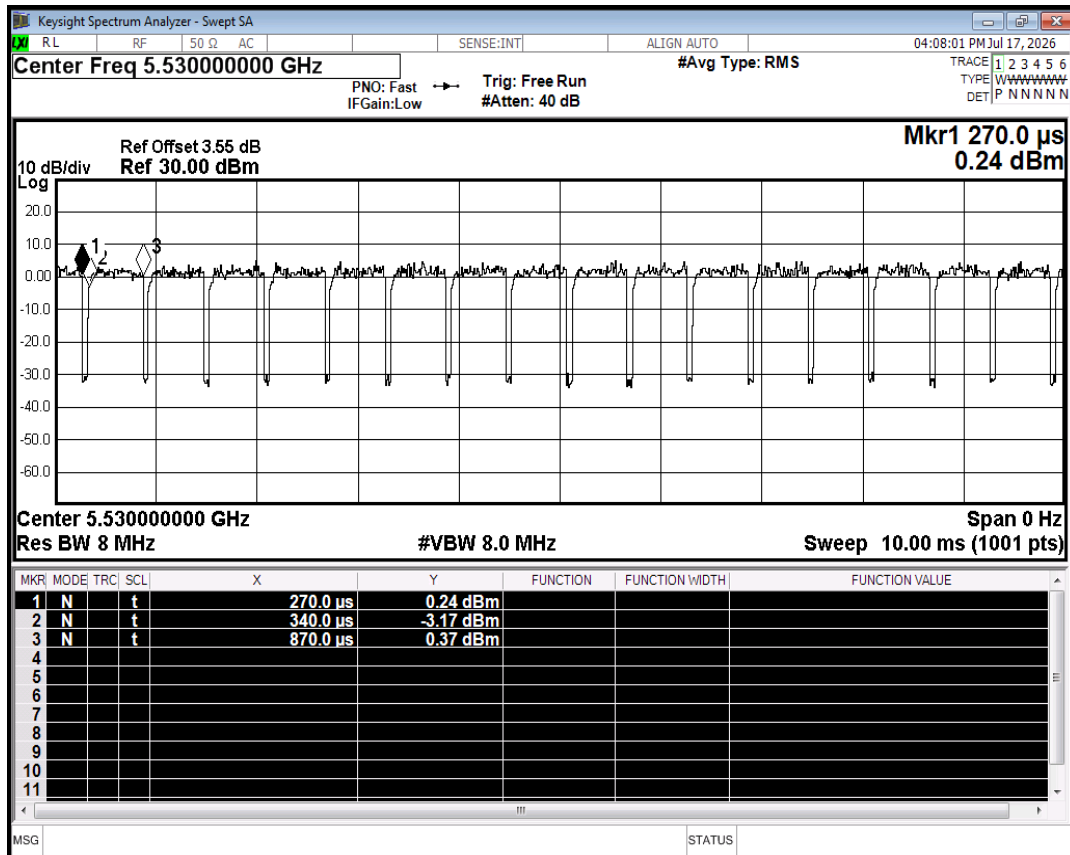
Duty Cycle NVNT ac40 5510MHz Ant1



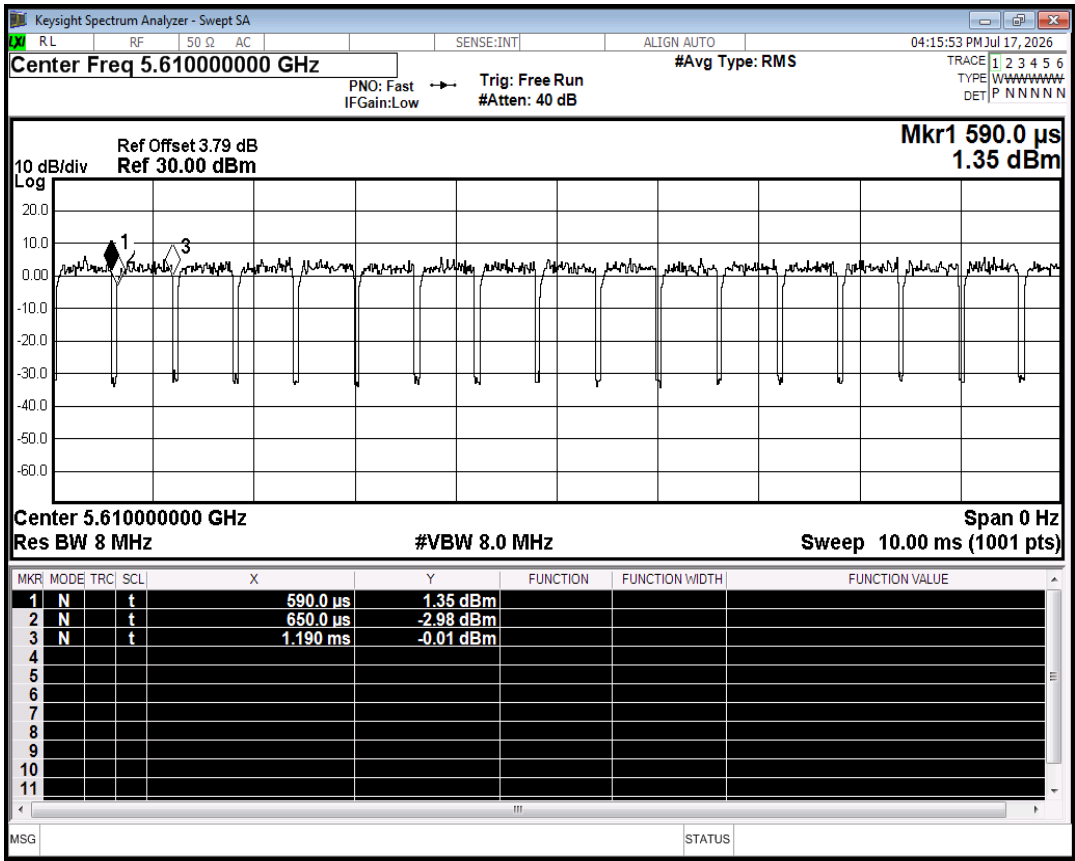
Duty Cycle NVNT ac40 5550MHz Ant1



Duty Cycle NVNT ac40 5670MHz Ant1



Duty Cycle NVNT ac80 5530MHz Ant1



Duty Cycle NVNT ac80 5610MHz Ant1