



Appendix D

RF Test Data for 5.5GWIFI(Conducted Measurement)

Product Name: SFO1

Test Model: SFO1

Environmental Conditions

Temperature:	23.8° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Paddi Chen
Supervised by:	Nick Peng





D.1 -26dB Bandwidth

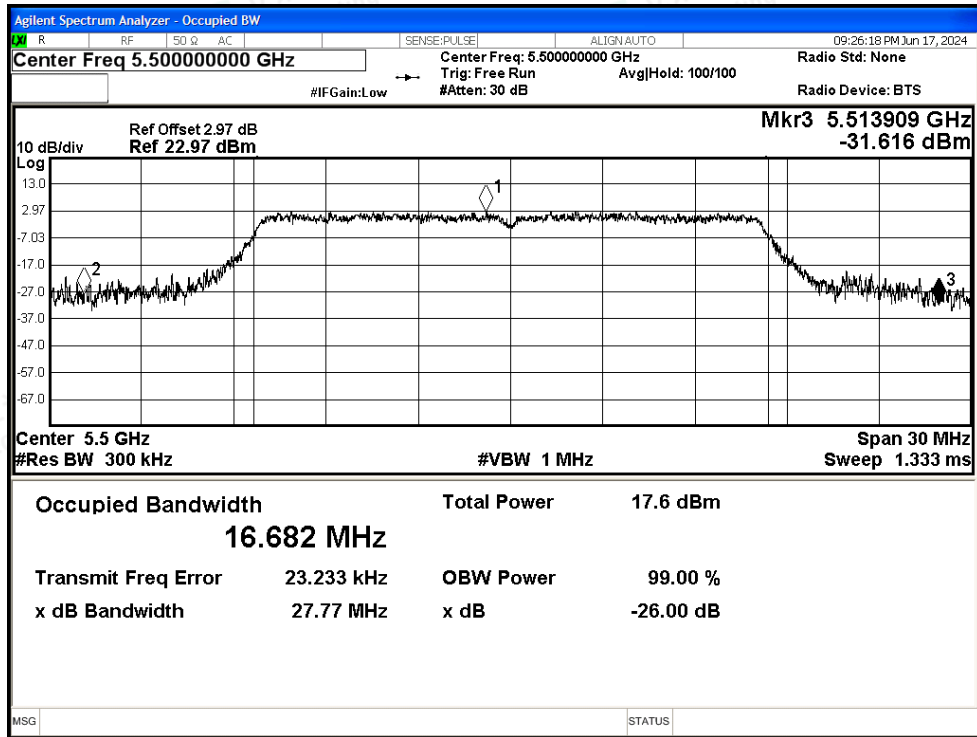
Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
NVNT	a	5500	Ant	27.771	---	Pass
NVNT	a	5580	Ant	29.283	---	Pass
NVNT	a	5700	Ant	28.653	---	Pass
NVNT	n20	5500	Ant	27.915	---	Pass
NVNT	n20	5580	Ant	27.739	---	Pass
NVNT	n20	5700	Ant	28.366	---	Pass
NVNT	n40	5510	Ant	39.433	---	Pass
NVNT	n40	5550	Ant	42.499	---	Pass
NVNT	n40	5670	Ant	41.63	---	Pass
NVNT	ac20	5500	Ant	27.261	---	Pass
NVNT	ac20	5580	Ant	28.992	---	Pass
NVNT	ac20	5700	Ant	27.303	---	Pass
NVNT	ac40	5510	Ant	52.537	---	Pass
NVNT	ac40	5550	Ant	41.816	---	Pass
NVNT	ac40	5670	Ant	43.109	---	Pass
NVNT	ac80	5530	Ant	78.069	---	Pass
NVNT	ac80	5610	Ant	78.66	---	Pass



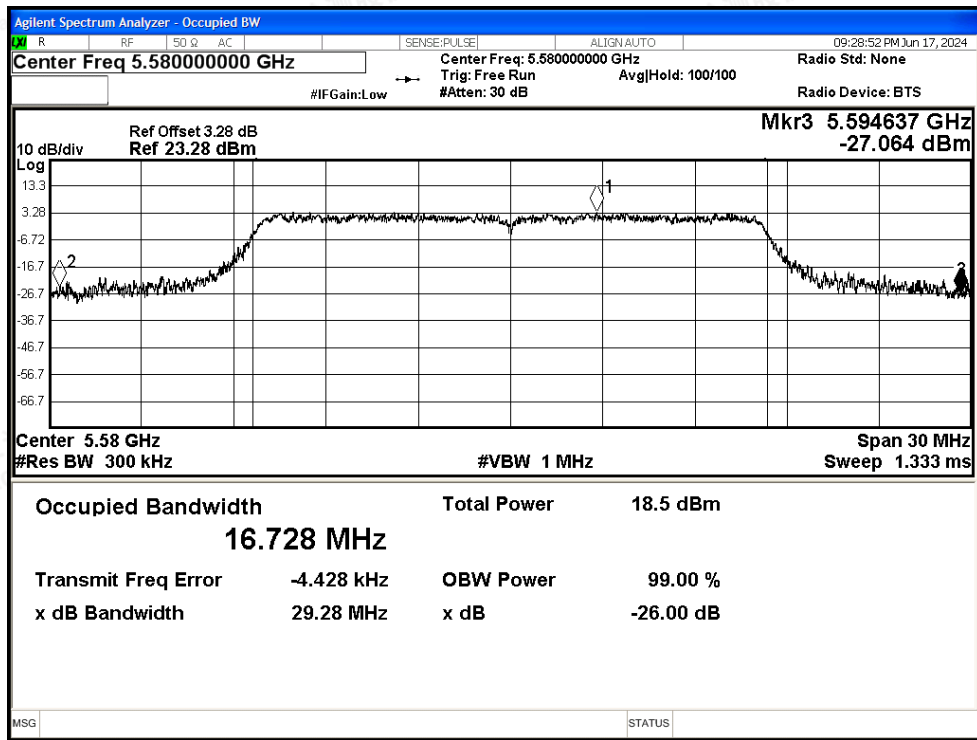


Test Graphs

-26dB Bandwidth NVNT a 5500MHz Ant

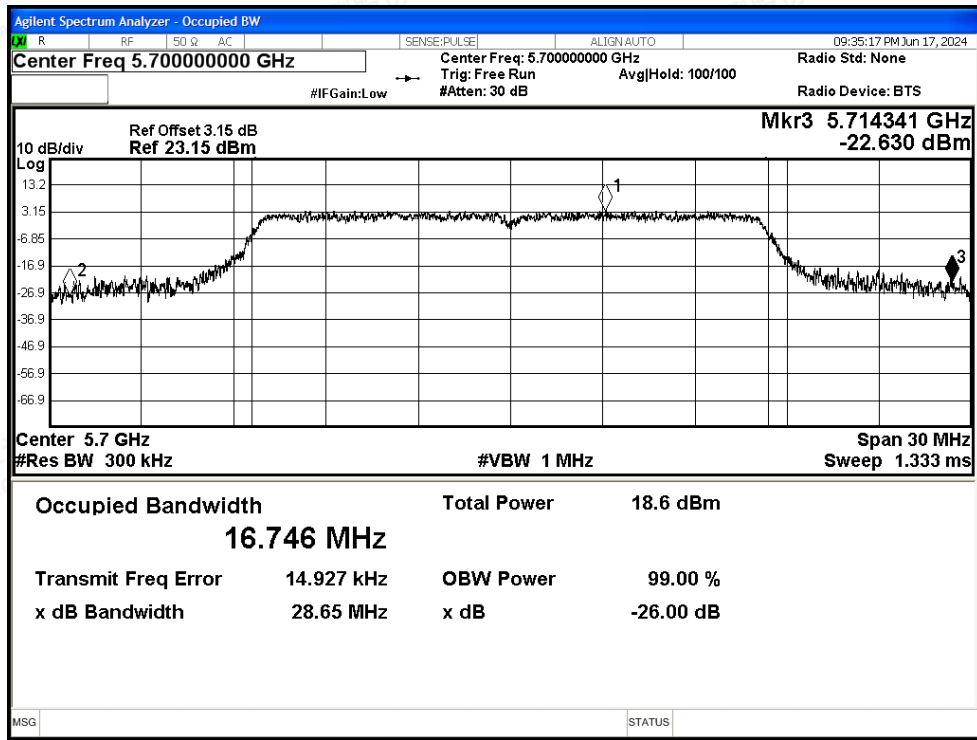


-26dB Bandwidth NVNT a 5580MHz Ant

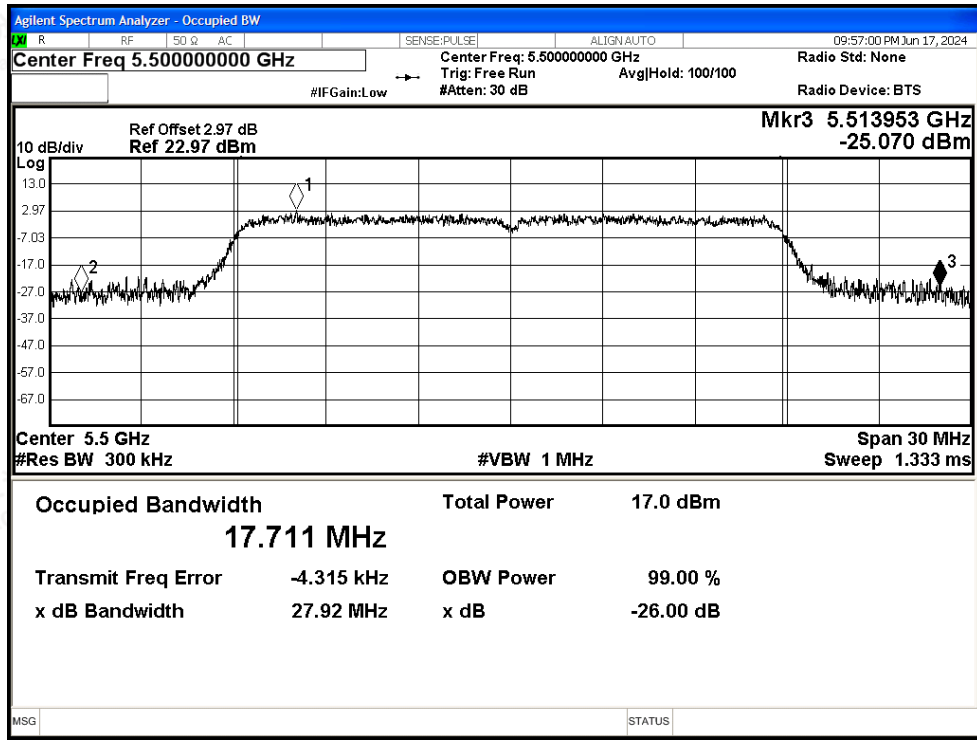




-26dB Bandwidth NVNT a 5700MHz Ant

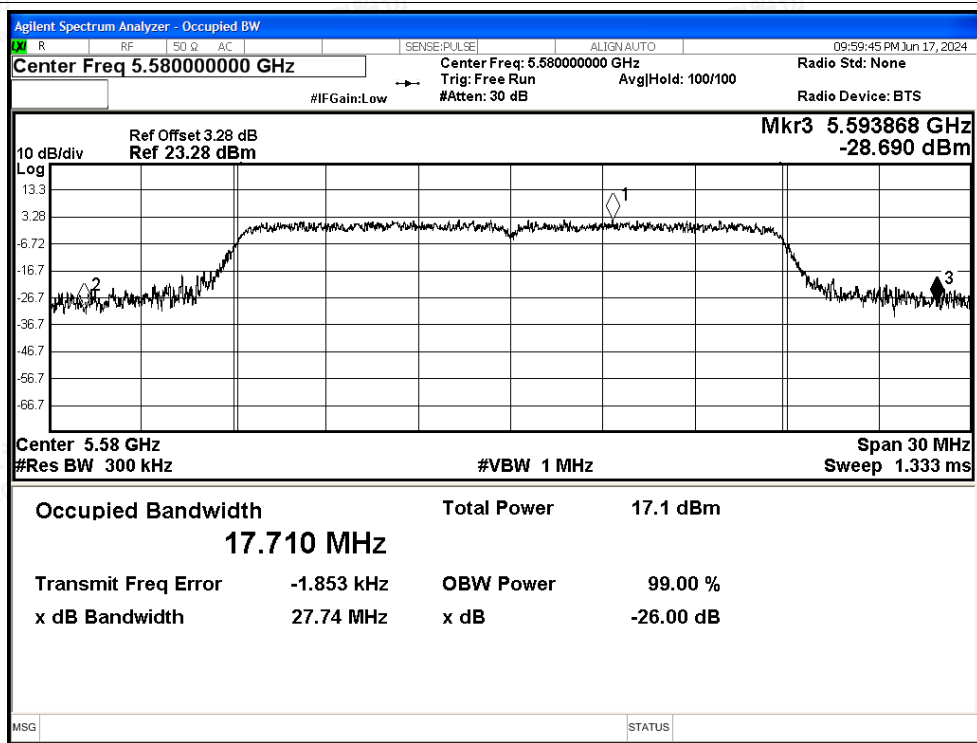


-26dB Bandwidth NVNT n20 5500MHz Ant

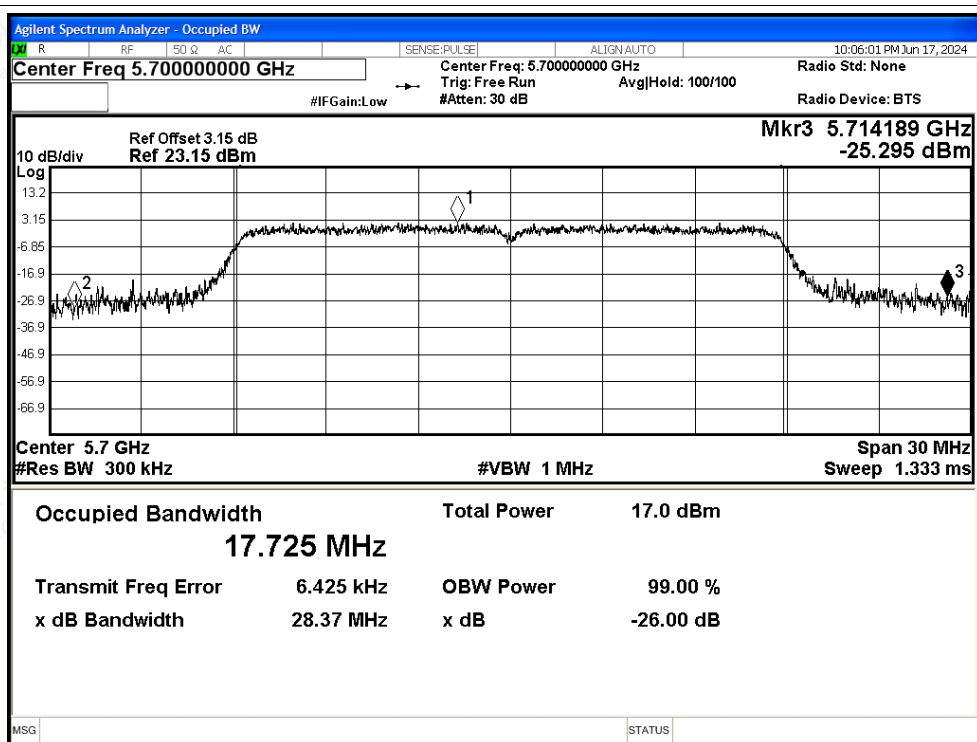




-26dB Bandwidth NVNT n20 5580MHz Ant

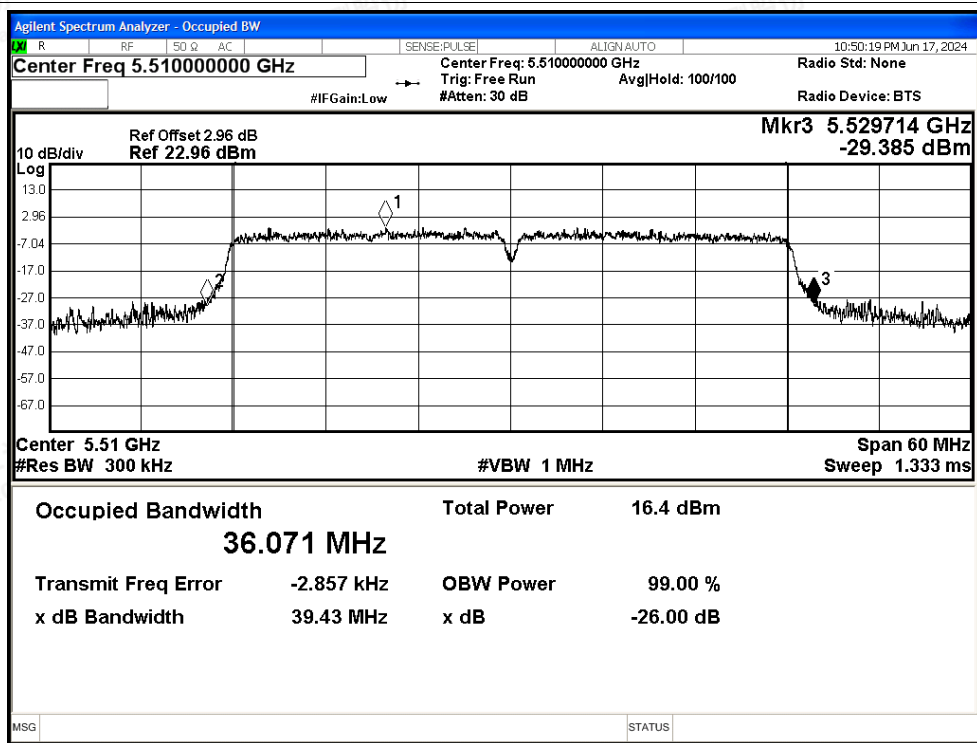


-26dB Bandwidth NVNT n20 5700MHz Ant

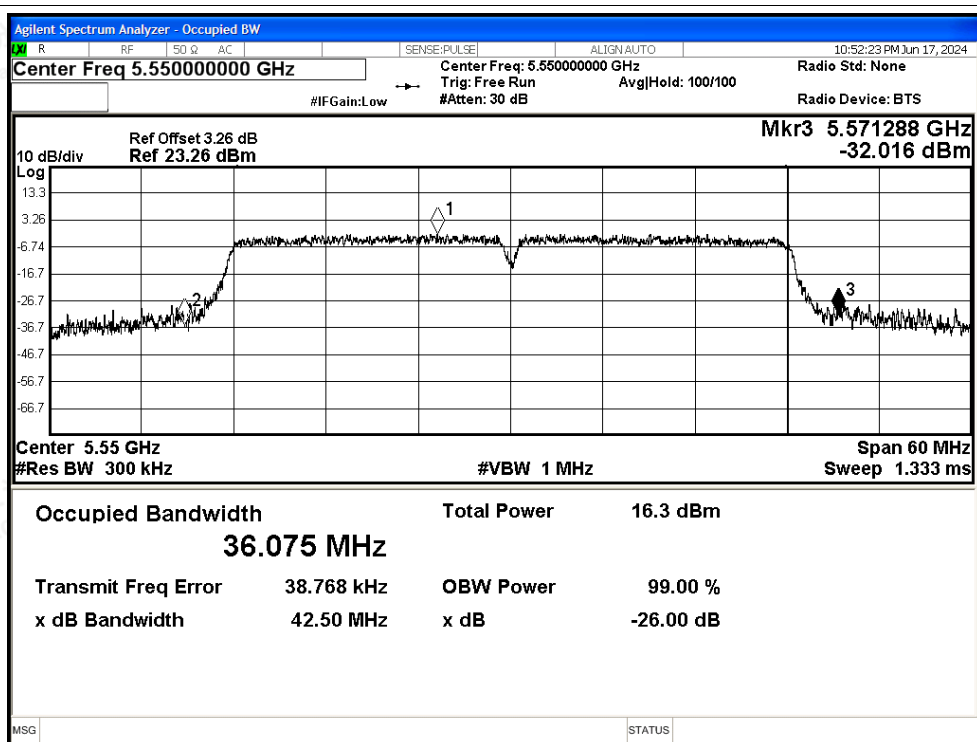




-26dB Bandwidth NVNT n40 5510MHz Ant

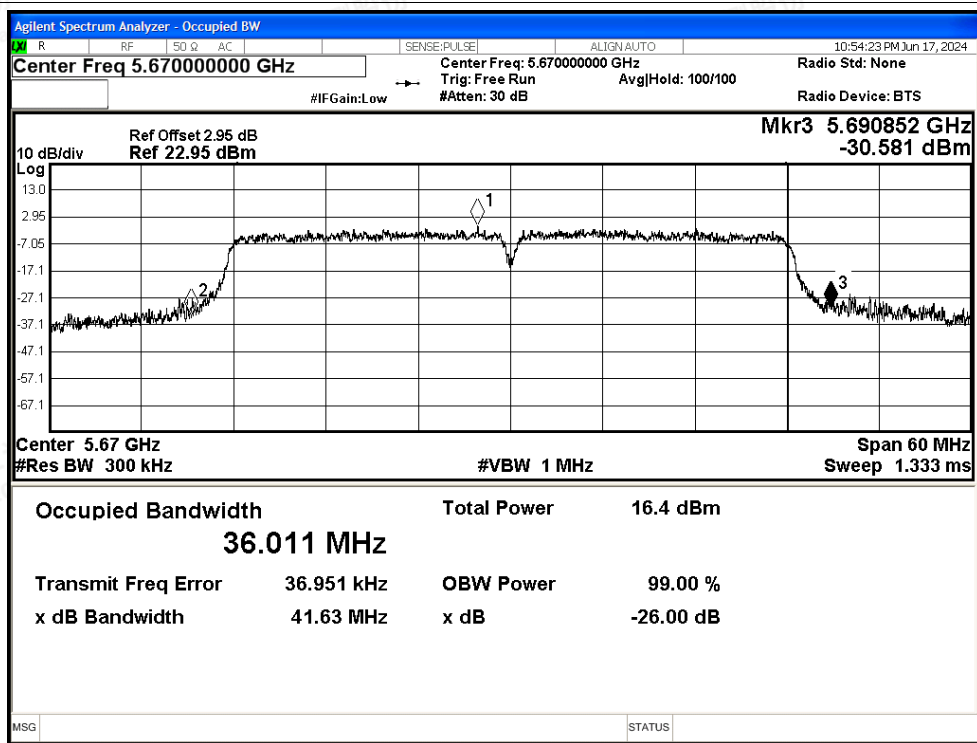


-26dB Bandwidth NVNT n40 5550MHz Ant

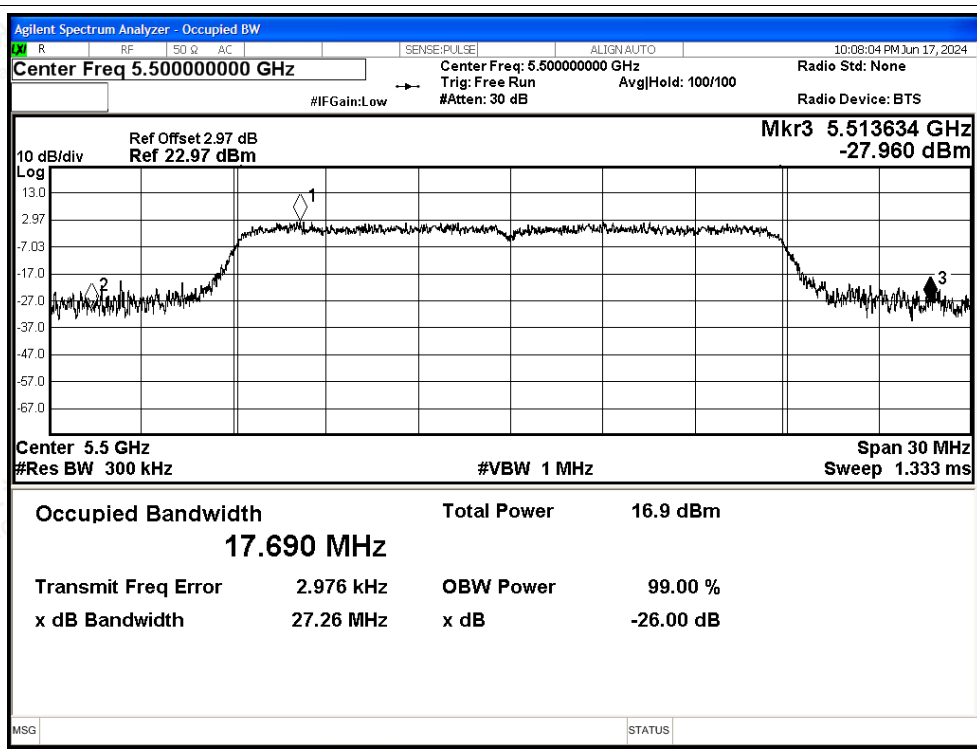




-26dB Bandwidth NVNT n40 5670MHz Ant

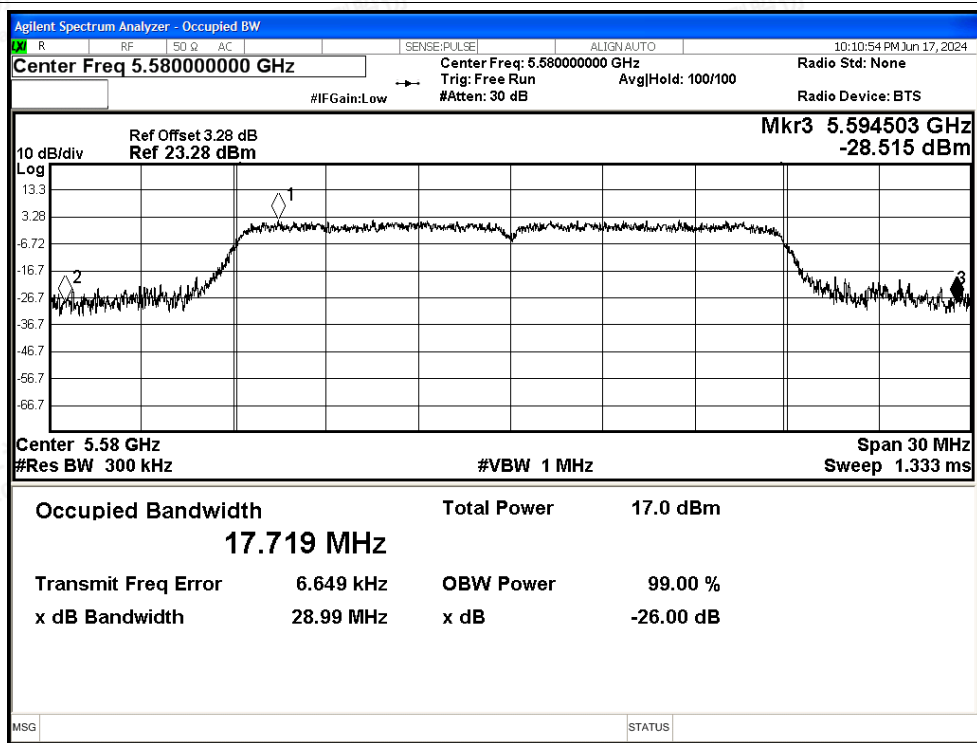


-26dB Bandwidth NVNT ac20 5500MHz Ant

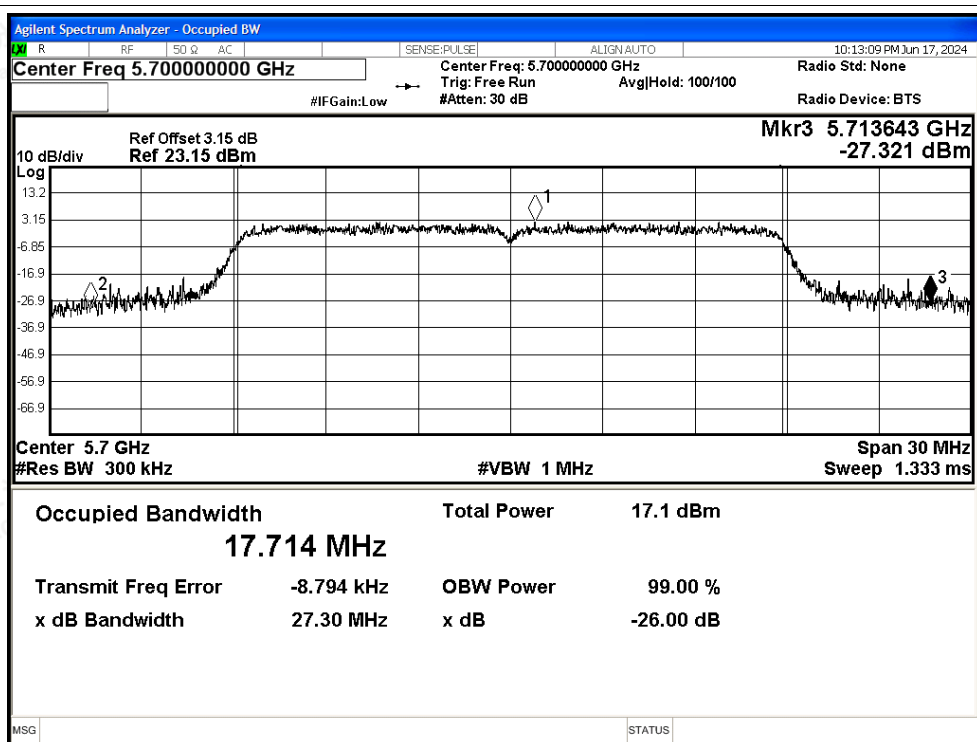




-26dB Bandwidth NVNT ac20 5580MHz Ant

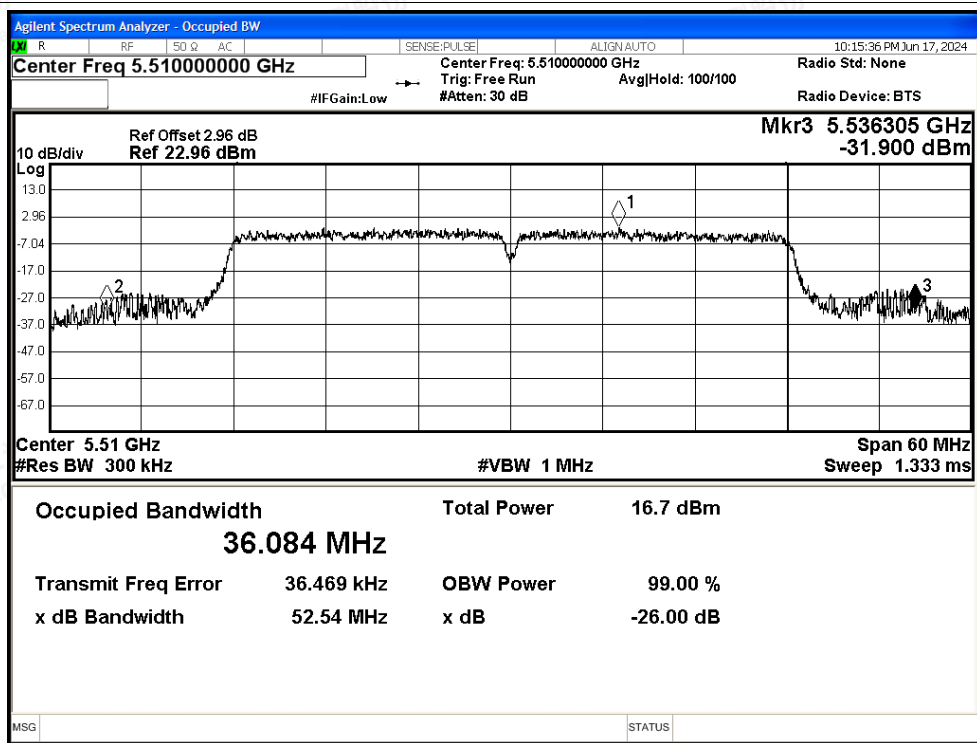


-26dB Bandwidth NVNT ac20 5700MHz Ant

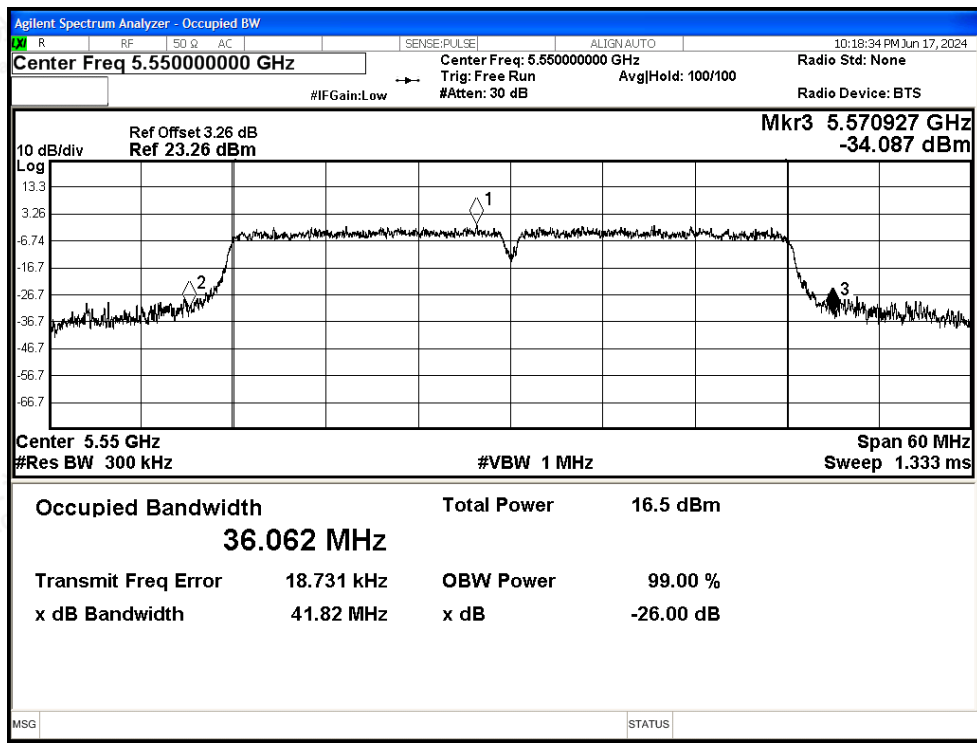




-26dB Bandwidth NVNT ac40 5510MHz Ant

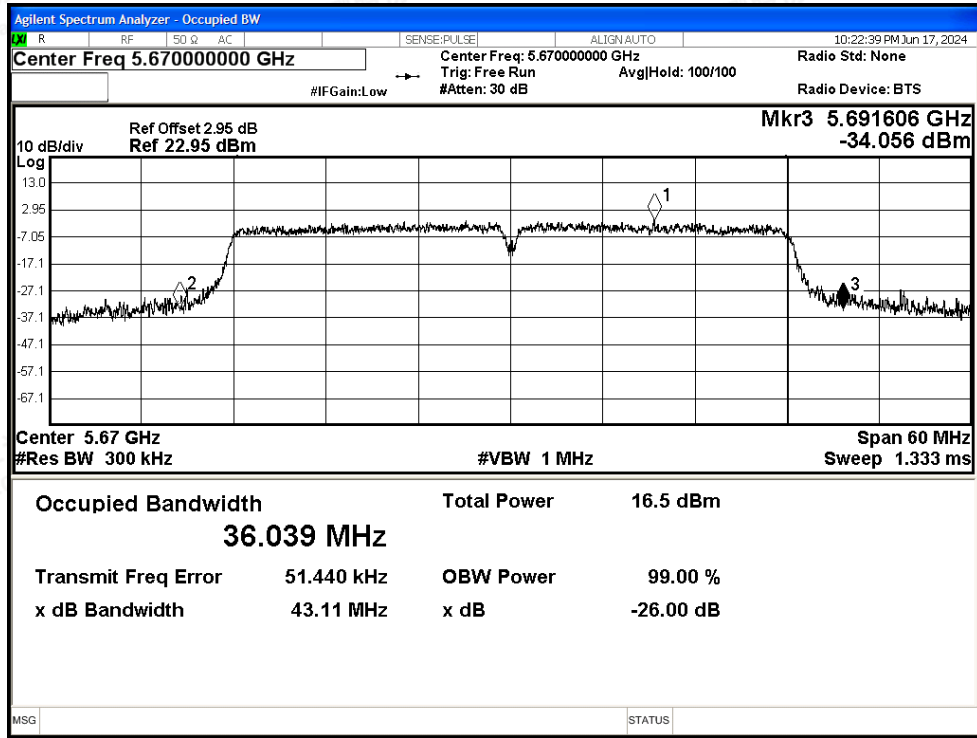


-26dB Bandwidth NVNT ac40 5550MHz Ant

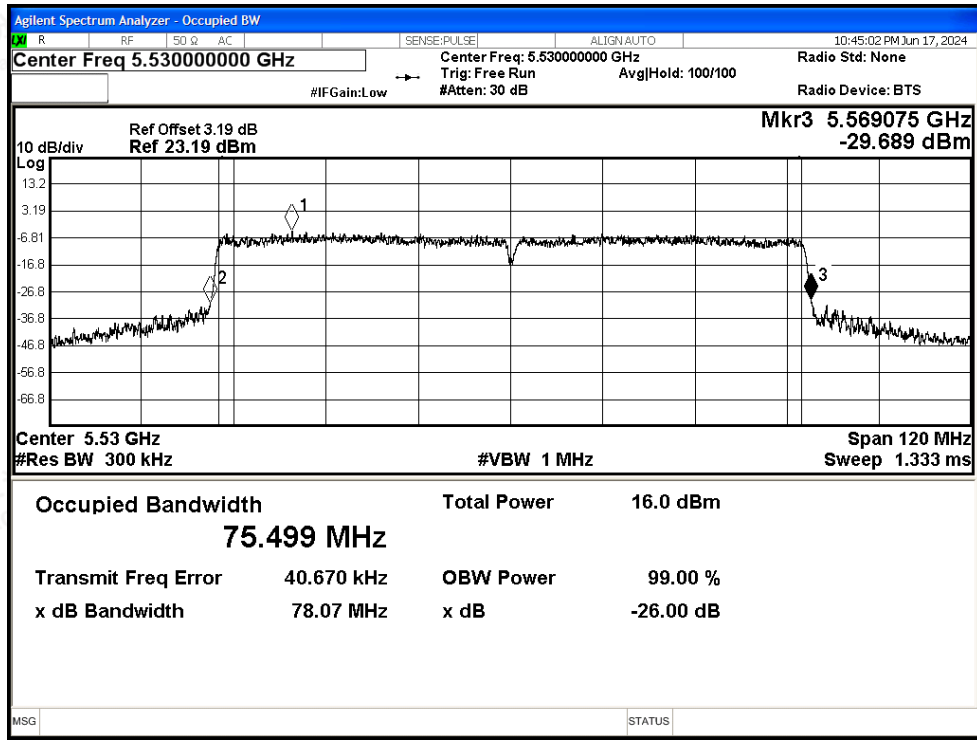


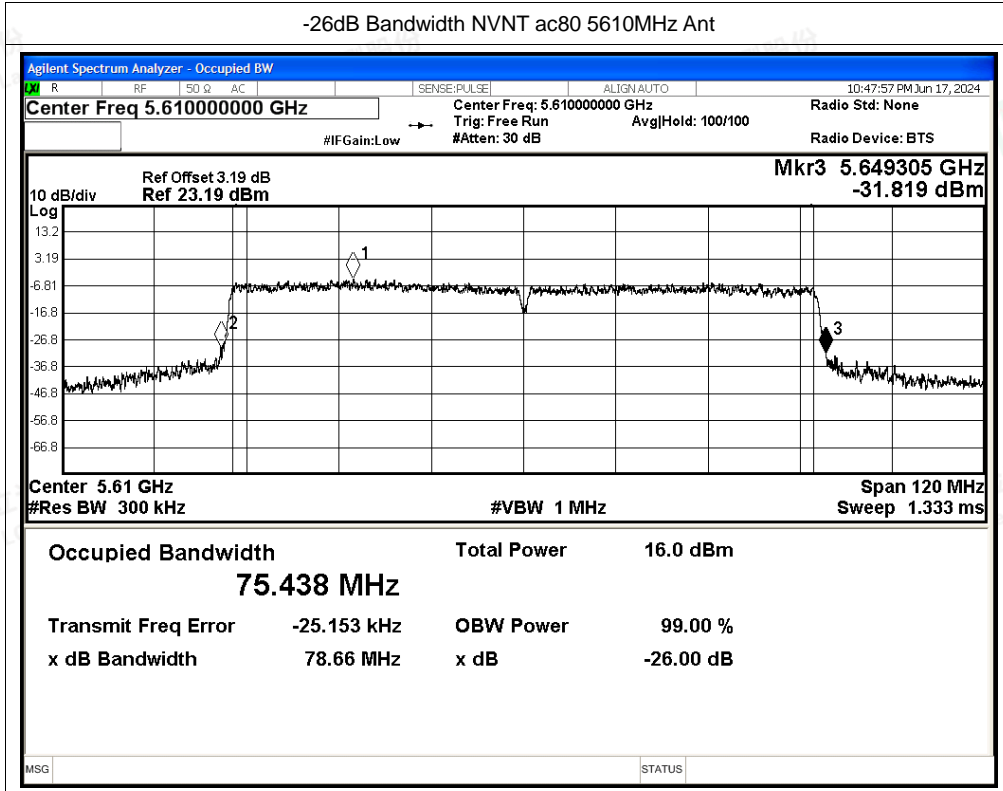


-26dB Bandwidth NVNT ac40 5670MHz Ant



-26dB Bandwidth NVNT ac80 5530MHz Ant







D.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	Ant	18.32	0.24	18.56	24	Pass
NVNT	a	5580	Ant	18.42	0.24	18.66	24	Pass
NVNT	a	5700	Ant	18.75	0.24	18.99	24	Pass
NVNT	n20	5500	Ant	18.21	0.28	18.49	24	Pass
NVNT	n20	5580	Ant	18.59	0.28	18.87	24	Pass
NVNT	n20	5700	Ant	18.03	0.28	18.31	24	Pass
NVNT	n40	5510	Ant	18.78	0.12	18.90	24	Pass
NVNT	n40	5550	Ant	18.73	0.12	18.85	24	Pass
NVNT	n40	5670	Ant	18.65	0.12	18.77	24	Pass
NVNT	ac20	5500	Ant	18.61	0.28	18.89	24	Pass
NVNT	ac20	5580	Ant	18.85	0.28	19.13	24	Pass
NVNT	ac20	5700	Ant	18.20	0.28	18.48	24	Pass
NVNT	ac40	5510	Ant	18.33	0.12	18.45	24	Pass
NVNT	ac40	5550	Ant	18.73	0.12	18.85	24	Pass
NVNT	ac40	5670	Ant	18.64	0.12	18.76	24	Pass
NVNT	ac80	5530	Ant	18.94	0.25	19.19	24	Pass
NVNT	ac80	5610	Ant	18.73	0.25	18.98	24	Pass





D.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	Ant	2.6	0.24	2.84	11	Pass
NVNT	a	5580	Ant	2.23	0.24	2.47	11	Pass
NVNT	a	5700	Ant	2.35	0.24	2.59	11	Pass
NVNT	n20	5500	Ant	0.65	0.28	0.93	11	Pass
NVNT	n20	5580	Ant	0.57	0.28	0.85	11	Pass
NVNT	n20	5700	Ant	0.5	0.28	0.78	11	Pass
NVNT	n40	5510	Ant	-2.89	0.12	-2.77	11	Pass
NVNT	n40	5550	Ant	-3.12	0.12	-3	11	Pass
NVNT	n40	5670	Ant	-2.91	0.12	-2.79	11	Pass
NVNT	ac20	5500	Ant	0.63	0.28	0.91	11	Pass
NVNT	ac20	5580	Ant	0.56	0.28	0.84	11	Pass
NVNT	ac20	5700	Ant	0.64	0.28	0.92	11	Pass
NVNT	ac40	5510	Ant	-3.09	0.12	-2.97	11	Pass
NVNT	ac40	5550	Ant	-3.04	0.12	-2.92	11	Pass
NVNT	ac40	5670	Ant	-2.68	0.12	-2.56	11	Pass
NVNT	ac80	5530	Ant	-6.58	0.25	-6.33	11	Pass
NVNT	ac80	5610	Ant	-6.31	0.25	-6.06	11	Pass



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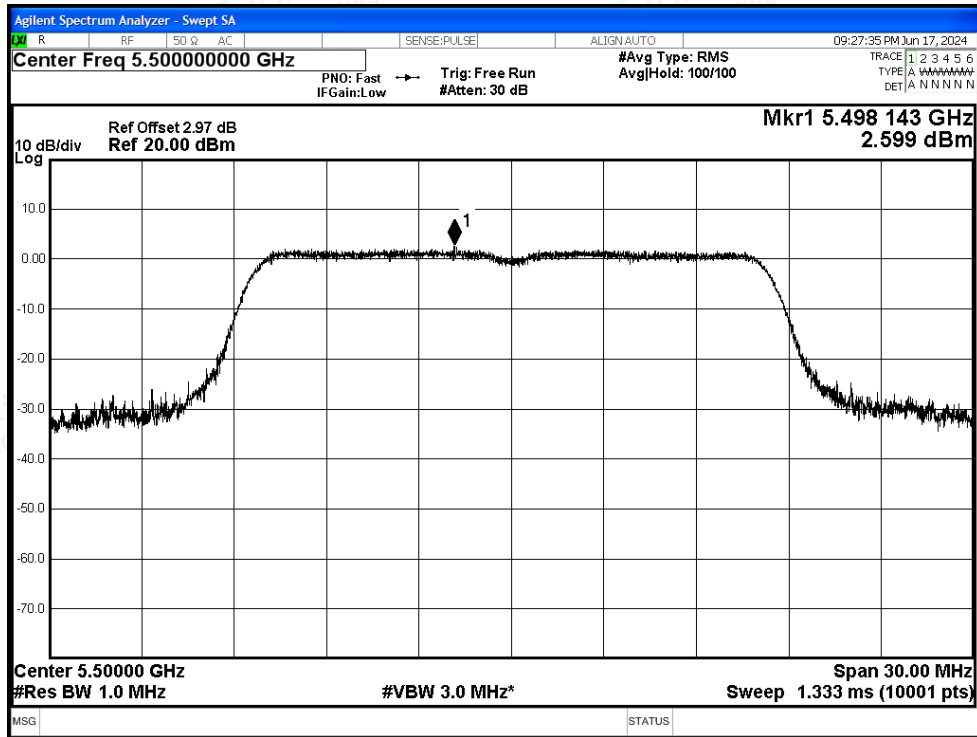
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Scan code to check authenticity

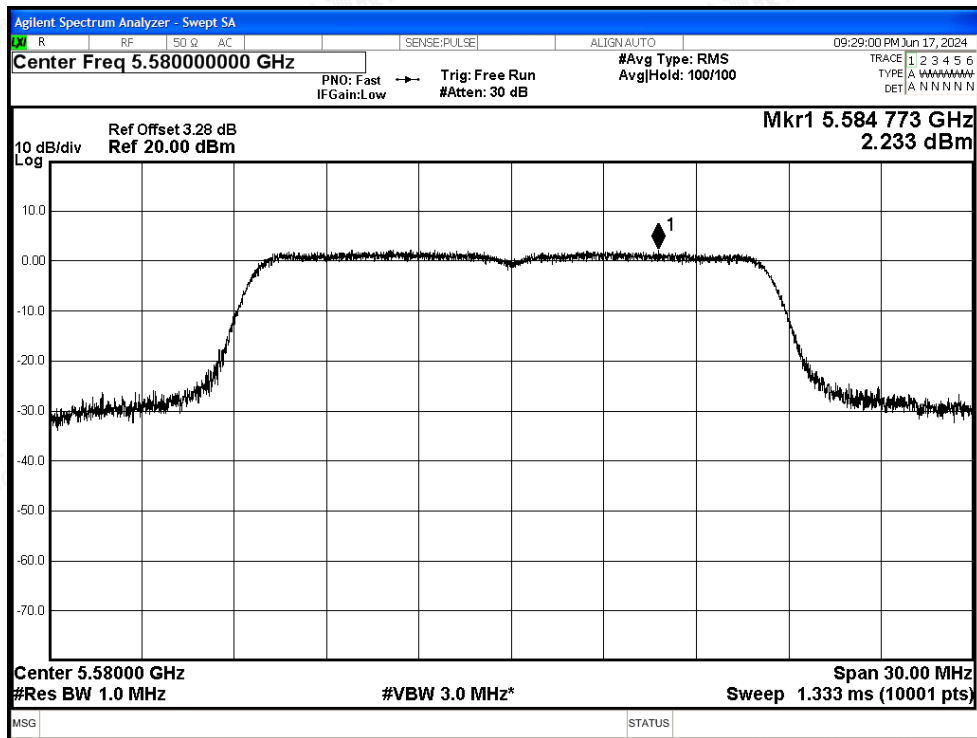


Test Graphs

PSD NVNT a 5500MHz Ant

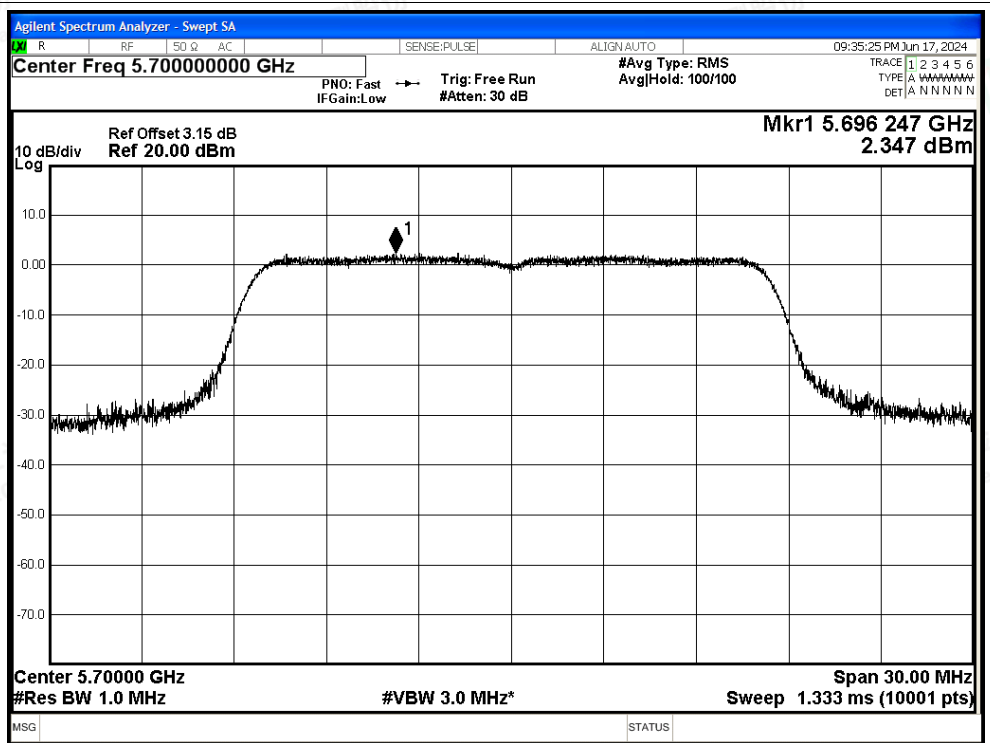


PSD NVNT a 5580MHz Ant

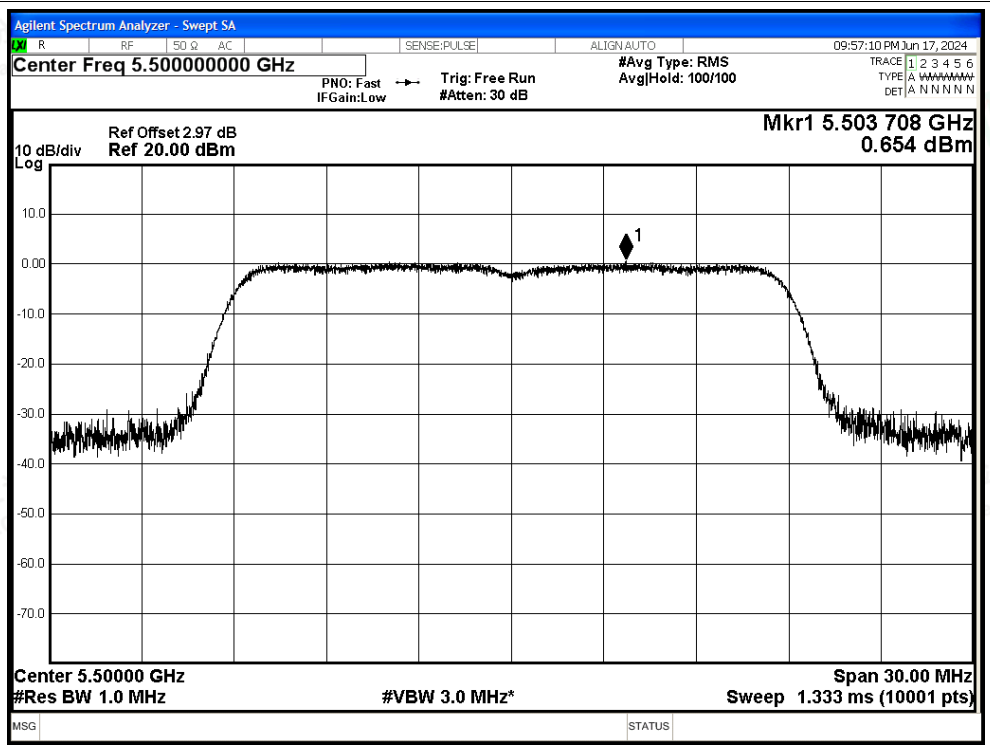


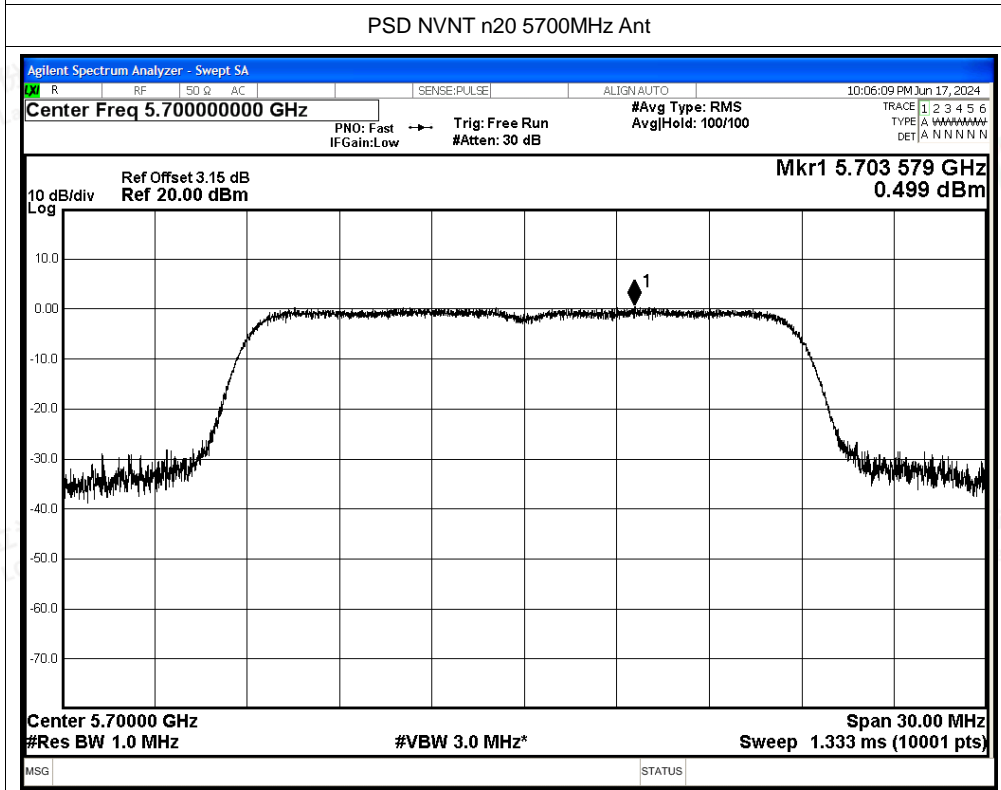
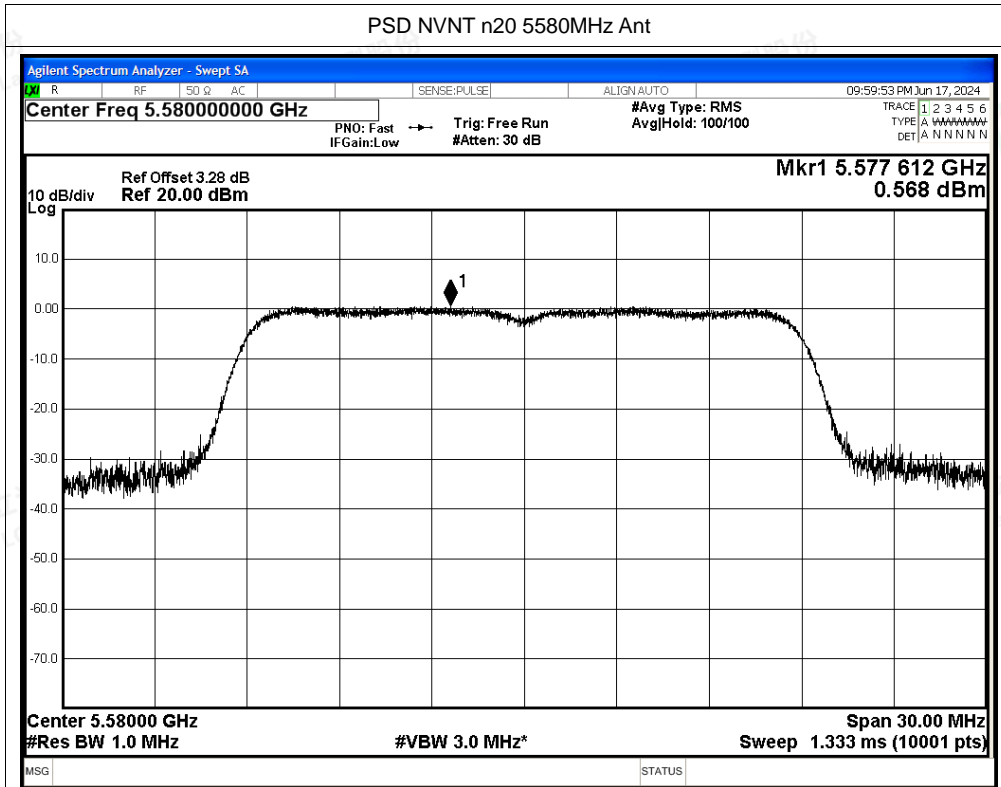


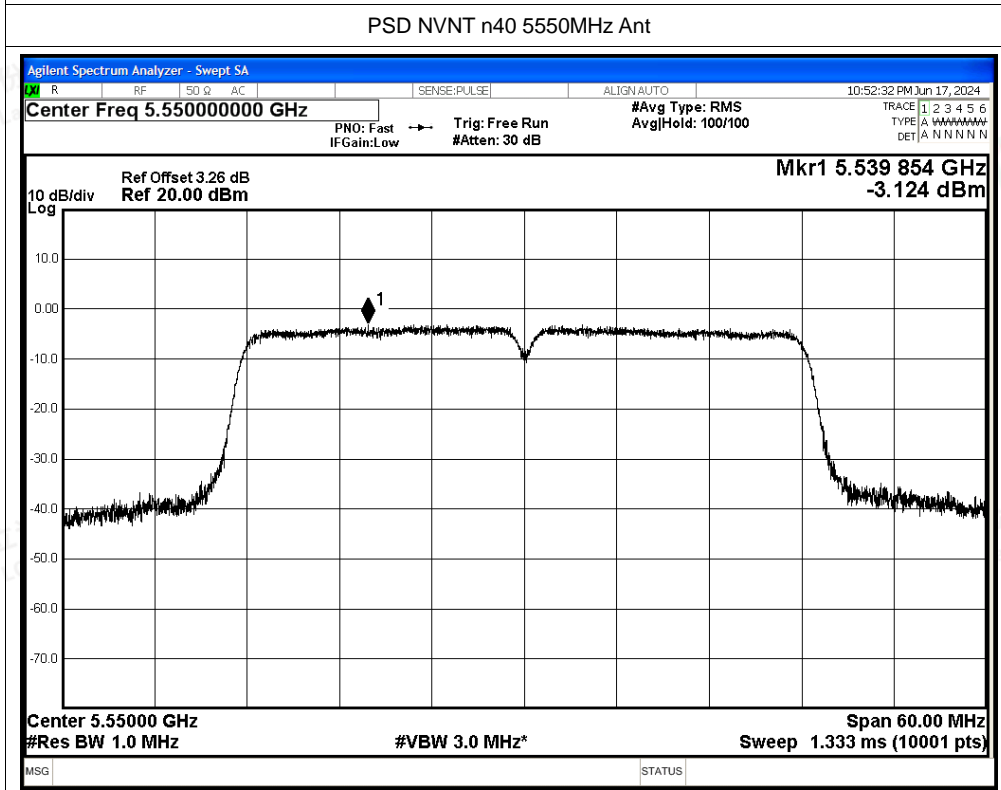
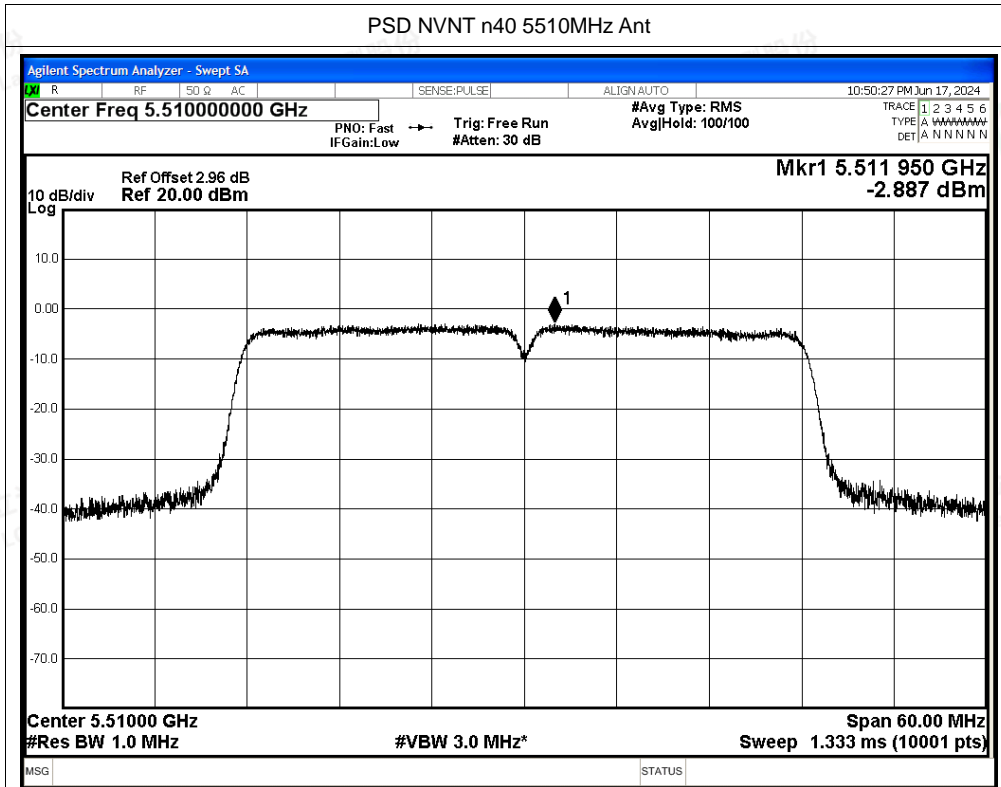
PSD NVNT a 5700MHz Ant

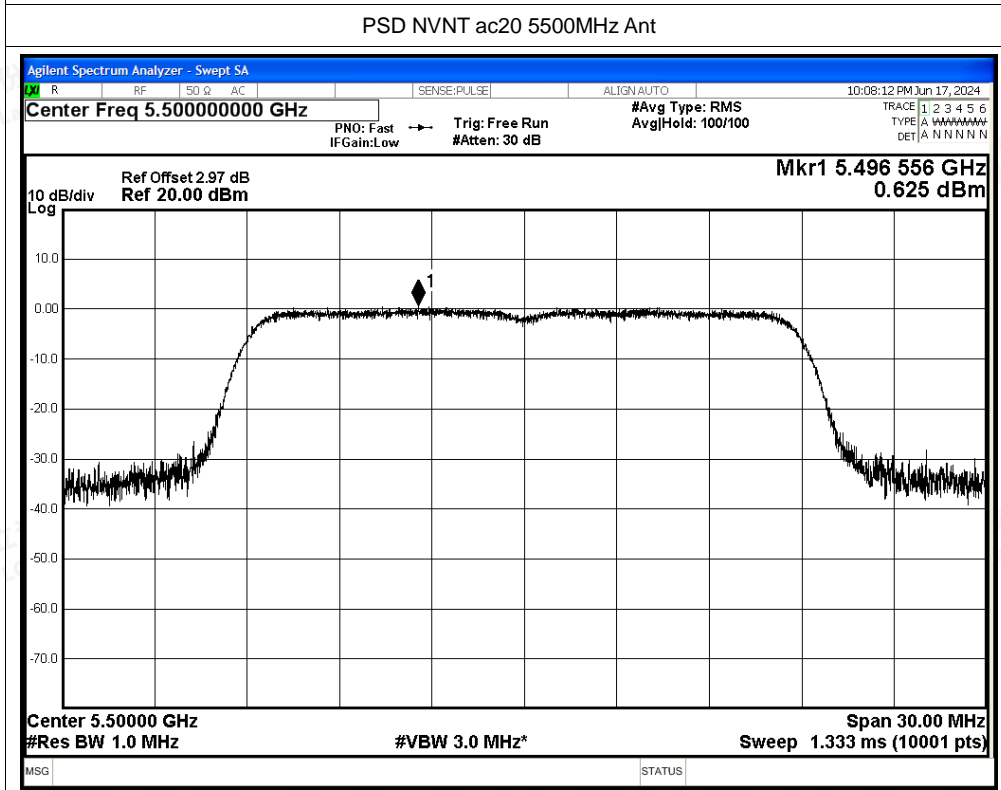
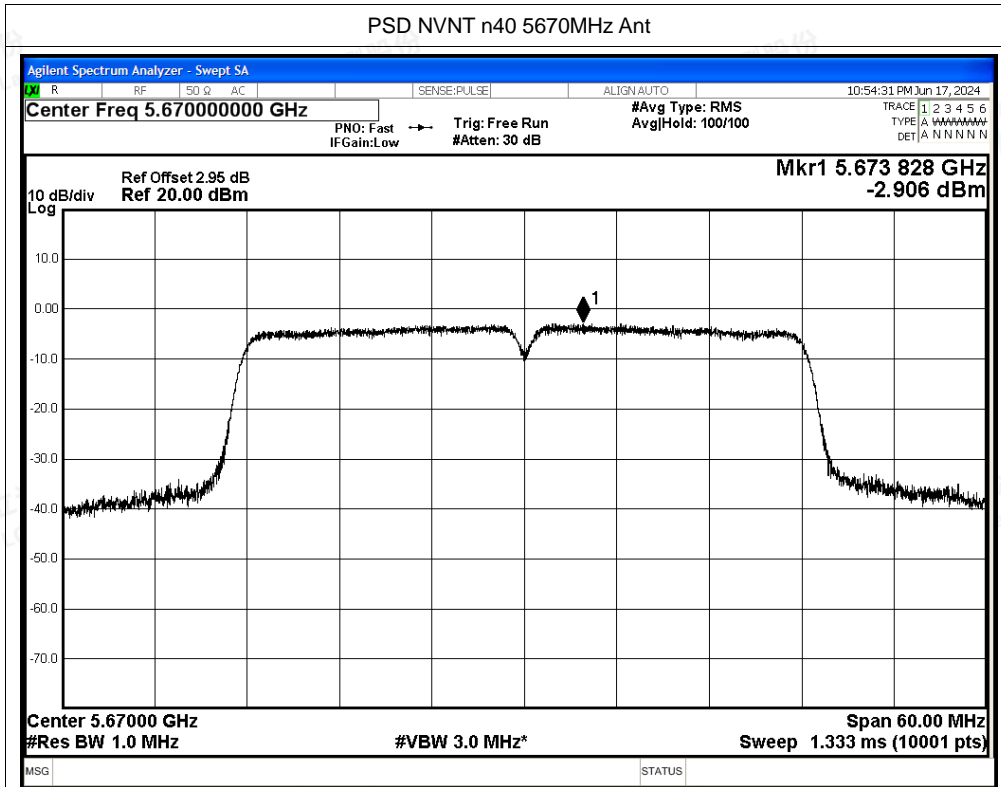


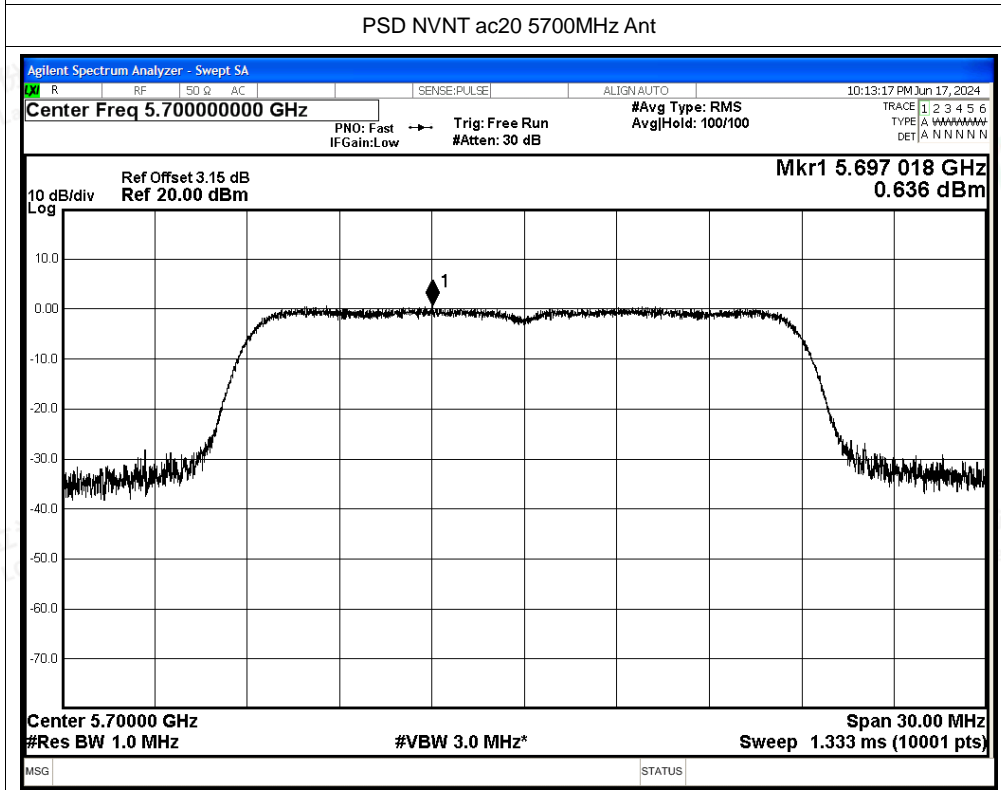
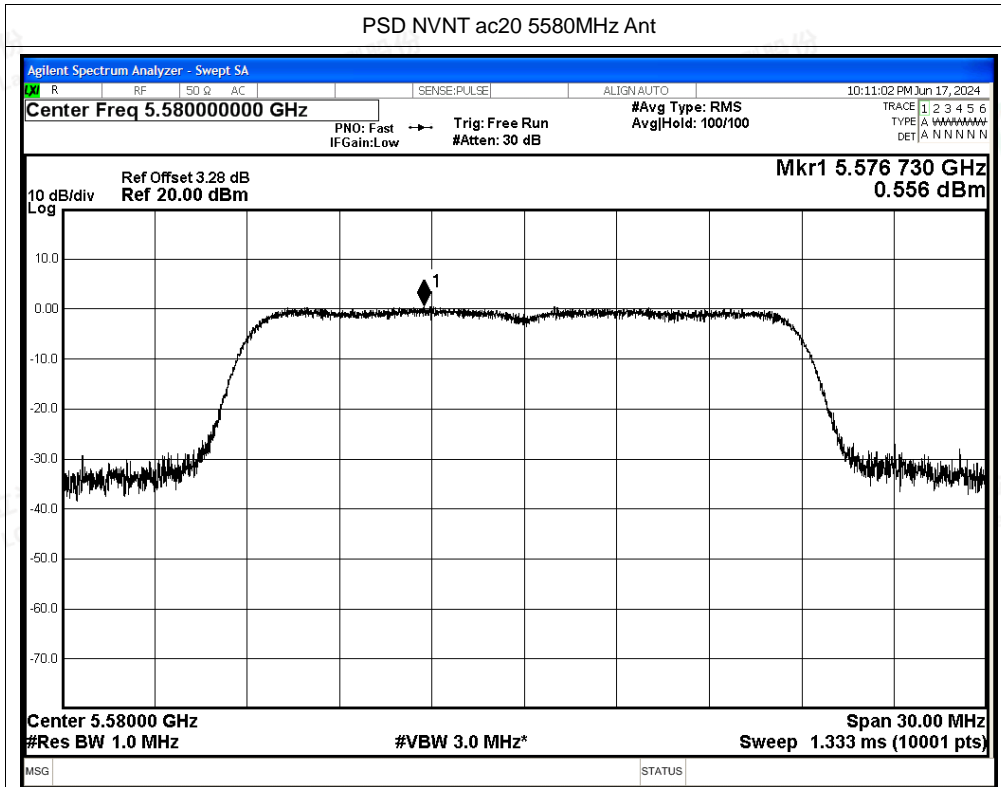
PSD NVNT n20 5500MHz Ant

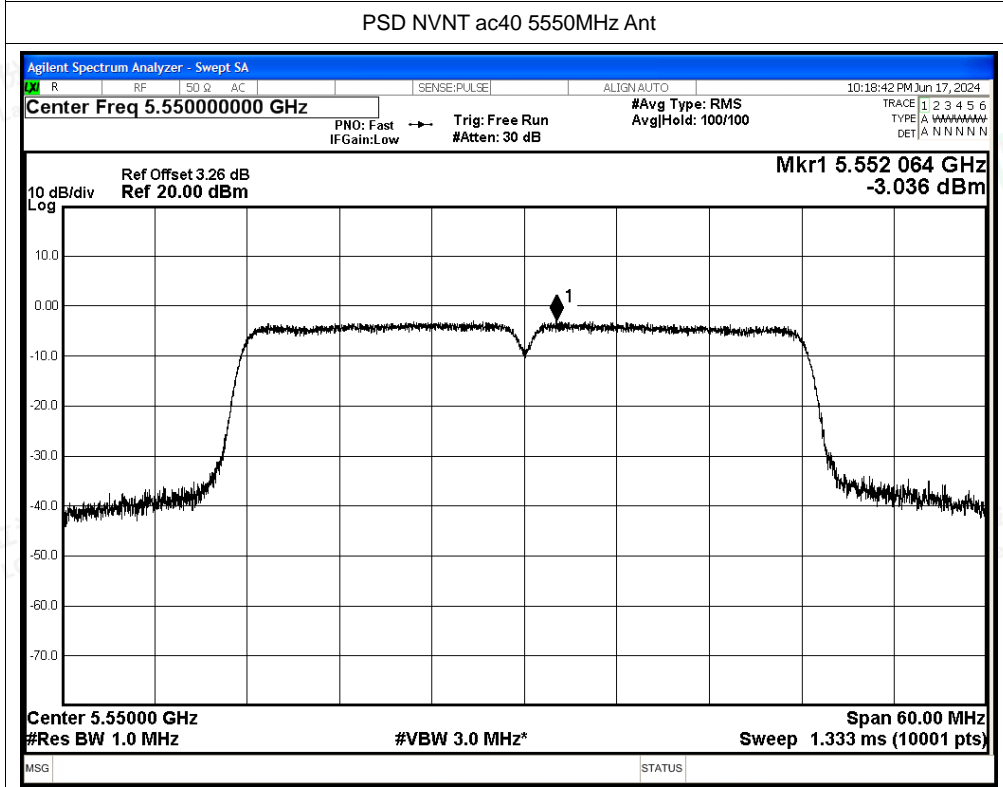
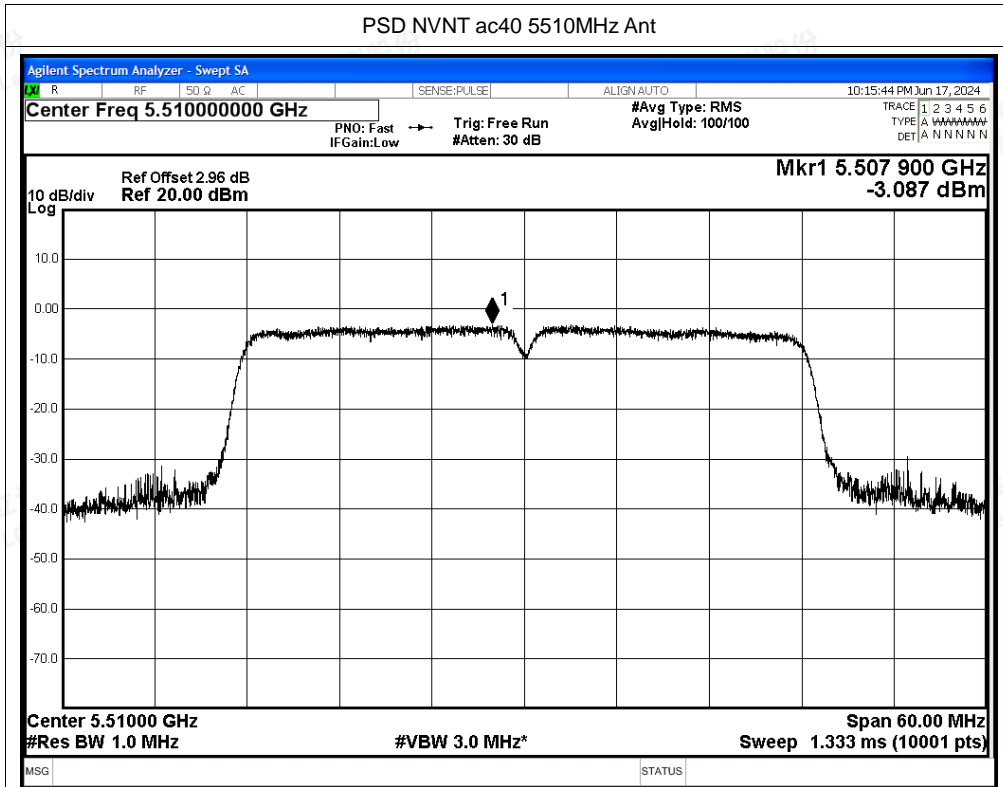


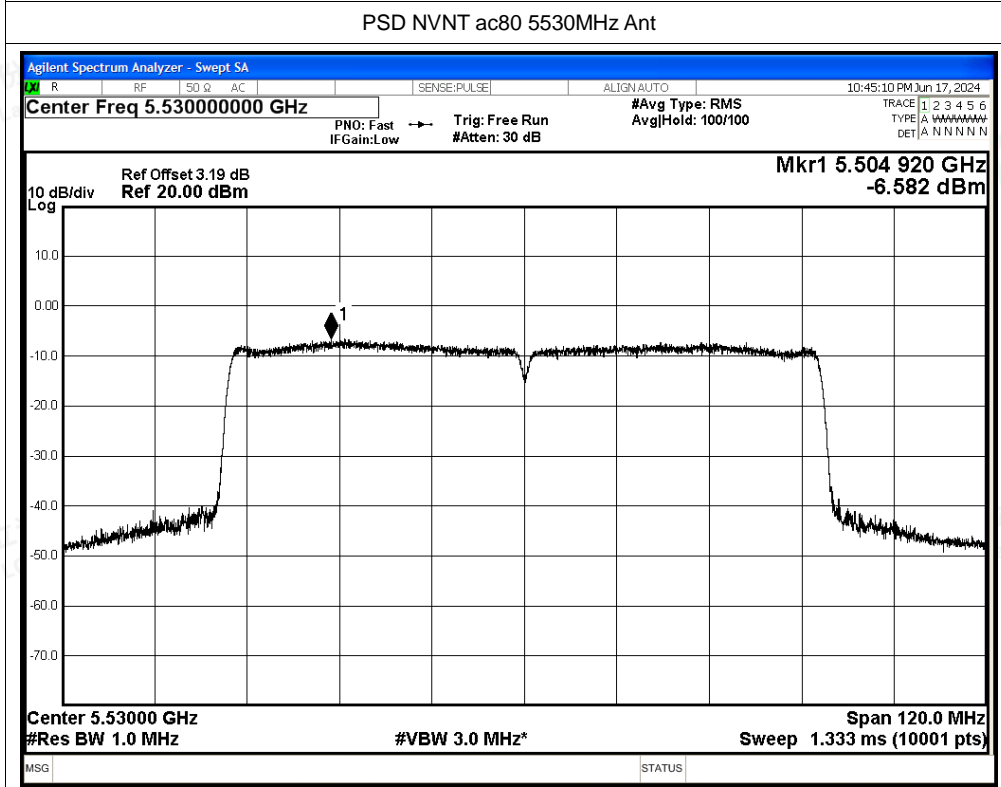
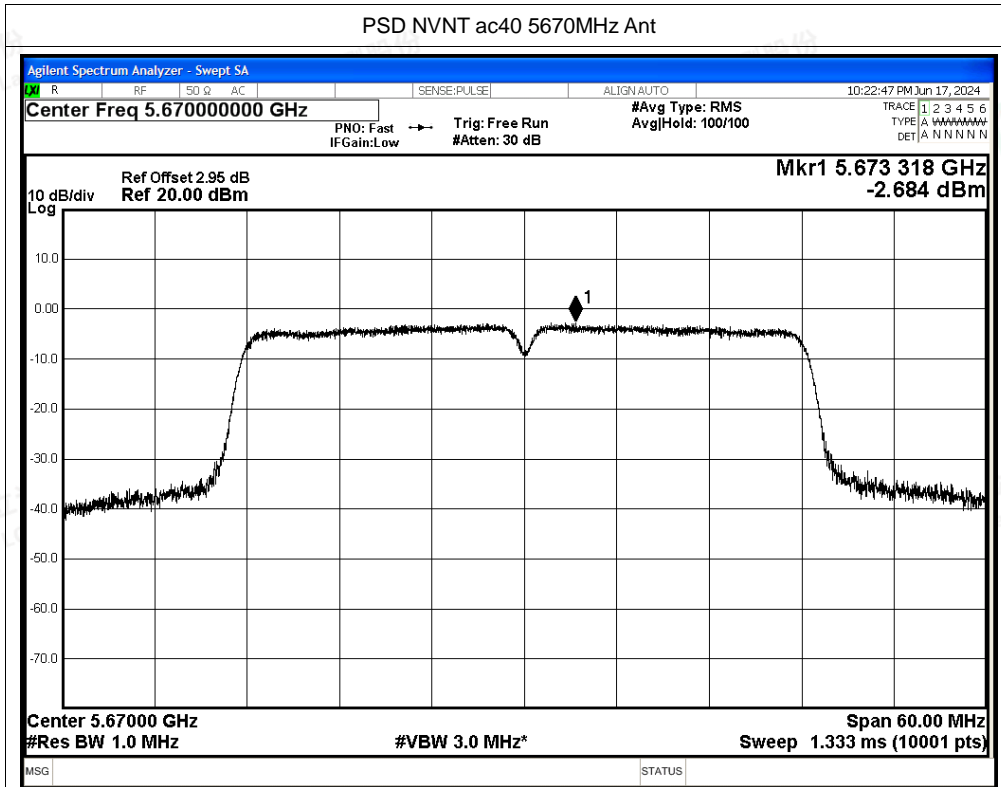


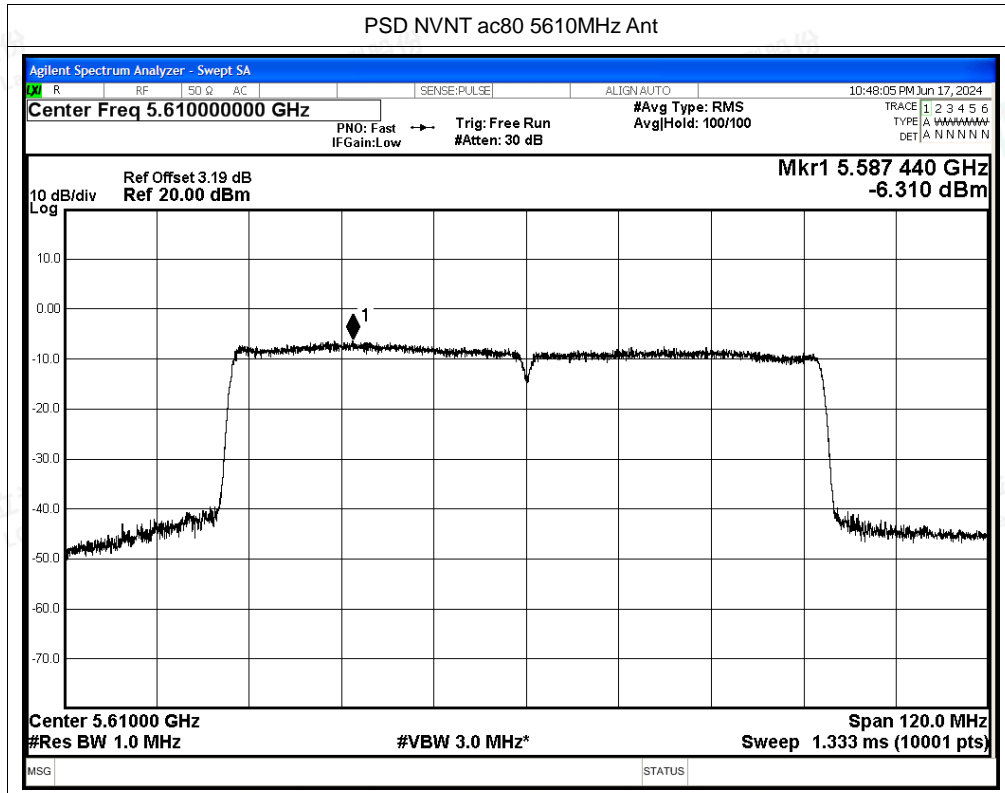














D.4 Restrict Band

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	Ant	5460	-50.88	2	-	46.35	Peak	68.2	Pass
NVNT	a	5500	Ant	5460	-58.33	2	0.24	39.14	Average	54	Pass
NVNT	a	5500	Ant	5467.6	-46.79	2	-	50.44	Peak	68.2	Pass
NVNT	a	5500	Ant	5470	-57.1	2	0.24	40.37	Average	54	Pass
NVNT	a	5500	Ant	5470	-48.95	2	-	48.28	Peak	68.2	Pass
NVNT	a	5700	Ant	5725	-41.71	2	-	55.52	Peak	68.2	Pass
NVNT	a	5700	Ant	5725	-55.84	2	0.24	41.63	Average	54	Pass
NVNT	a	5700	Ant	5726.6	-41.31	2	-	55.92	Peak	68.2	Pass
NVNT	a	5700	Ant	5725.4	-55.7	2	0.24	41.77	Average	54	Pass
NVNT	a	5700	Ant	5735	-49.92	2	-	47.31	Peak	68.2	Pass
NVNT	a	5700	Ant	5735	-57.89	2	0.24	39.58	Average	54	Pass
NVNT	n20	5500	Ant	5460	-50	2	-	47.23	Peak	68.2	Pass
NVNT	n20	5500	Ant	5460	-57.96	2	0.28	39.55	Average	54	Pass
NVNT	n20	5500	Ant	5469.6	-45.81	2	-	51.42	Peak	68.2	Pass
NVNT	n20	5500	Ant	5469.2	-56.53	2	0.28	40.98	Average	54	Pass
NVNT	n20	5500	Ant	5470	-47.67	2	-	49.56	Peak	68.2	Pass
NVNT	n20	5500	Ant	5470	-56.61	2	0.28	40.9	Average	54	Pass
NVNT	n20	5700	Ant	5725	-45.04	2	-	52.19	Peak	68.2	Pass
NVNT	n20	5700	Ant	5725	-53.48	2	0.28	44.03	Average	54	Pass
NVNT	n20	5700	Ant	5726.2	-40.11	2	-	57.12	Peak	68.2	Pass
NVNT	n20	5700	Ant	5735	-50.2	2	-	47.03	Peak	68.2	Pass
NVNT	n20	5700	Ant	5735	-58.29	2	0.28	39.22	Average	54	Pass
NVNT	n40	5510	Ant	5460	-49.9	2	-	47.33	Peak	68.2	Pass
NVNT	n40	5510	Ant	5460	-57.94	2	0.12	39.41	Average	54	Pass
NVNT	n40	5510	Ant	5469.8	-43.63	2	-	53.6	Peak	68.2	Pass
NVNT	n40	5510	Ant	5469.8	-55.85	2	0.12	41.5	Average	54	Pass
NVNT	n40	5510	Ant	5470	-44.61	2	-	52.62	Peak	68.2	Pass
NVNT	n40	5510	Ant	5470	-56.23	2	0.12	41.12	Average	54	Pass
NVNT	n40	5670	Ant	5725	-50.07	2	-	47.16	Peak	68.2	Pass
NVNT	n40	5670	Ant	5725	-58.32	2	0.12	39.03	Average	54	Pass
NVNT	n40	5670	Ant	5727.2	-48.72	2	-	48.51	Peak	68.2	Pass
NVNT	n40	5670	Ant	5732.2	-57.79	2	0.12	39.56	Average	54	Pass
NVNT	n40	5670	Ant	5735	-50.74	2	-	46.49	Peak	68.2	Pass
NVNT	n40	5670	Ant	5735	-58.44	2	0.12	38.91	Average	54	Pass
NVNT	ac20	5500	Ant	5460	-49.61	2	-	47.62	Peak	68.2	Pass
NVNT	ac20	5500	Ant	5460	-58.07	2	0.28	39.44	Average	54	Pass
NVNT	ac20	5500	Ant	5469.6	-45.87	2	-	51.36	Peak	68.2	Pass
NVNT	ac20	5500	Ant	5468.8	-56.83	2	0.28	40.68	Average	54	Pass



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NVNT	ac20	5500	Ant	5470	-48.87	2	-	48.36	Peak	68.2	Pass
NVNT	ac20	5500	Ant	5470	-57.33	2	0.28	40.18	Average	54	Pass
NVNT	ac20	5700	Ant	5725	-42.65	2	-	54.58	Peak	68.2	Pass
NVNT	ac20	5700	Ant	5725	-54.98	2	0.28	42.53	Average	54	Pass
NVNT	ac20	5700	Ant	5725.4	-38.92	2	-	58.31	Peak	68.2	Pass
NVNT	ac20	5700	Ant	5726	-54.65	2	0.28	42.86	Average	54	Pass
NVNT	ac20	5700	Ant	5735	-50.67	2	-	46.56	Peak	68.2	Pass
NVNT	ac20	5700	Ant	5735	-57.58	2	0.28	39.93	Average	54	Pass
NVNT	ac40	5510	Ant	5460	-50.5	2	-	46.73	Peak	68.2	Pass
NVNT	ac40	5510	Ant	5460	-57.86	2	0.12	39.49	Average	54	Pass
NVNT	ac40	5510	Ant	5467	-45.41	2	-	51.82	Peak	68.2	Pass
NVNT	ac40	5510	Ant	5469.2	-56.78	2	0.12	40.57	Average	54	Pass
NVNT	ac40	5510	Ant	5470	-46.04	2	-	51.19	Peak	68.2	Pass
NVNT	ac40	5510	Ant	5470	-56.83	2	0.12	40.52	Average	54	Pass
NVNT	ac40	5670	Ant	5725	-49.67	2	-	47.56	Peak	68.2	Pass
NVNT	ac40	5670	Ant	5725	-58.5	2	0.12	38.85	Average	54	Pass
NVNT	ac40	5670	Ant	5729.8	-48.13	2	-	49.1	Peak	68.2	Pass
NVNT	ac40	5670	Ant	5734.8	-57.72	2	0.12	39.63	Average	54	Pass
NVNT	ac40	5670	Ant	5735	-49.97	2	-	47.26	Peak	68.2	Pass
NVNT	ac40	5670	Ant	5735	-58.67	2	0.12	38.68	Average	54	Pass
NVNT	ac80	5530	Ant	5460	-49.81	2	-	47.42	Peak	68.2	Pass
NVNT	ac80	5530	Ant	5460	-56.93	2	0.25	40.55	Average	54	Pass
NVNT	ac80	5530	Ant	5469.4	-44.97	2	-	52.26	Peak	68.2	Pass
NVNT	ac80	5530	Ant	5469.8	-56.18	2	0.25	41.3	Average	54	Pass
NVNT	ac80	5530	Ant	5470	-45.04	2	-	52.19	Peak	68.2	Pass
NVNT	ac80	5530	Ant	5470	-56.82	2	0.25	40.66	Average	54	Pass
NVNT	ac80	5610	Ant	5725	-50.5	2	-	46.73	Peak	68.2	Pass
NVNT	ac80	5610	Ant	5725	-58.67	2	0	38.56	Average	54	Pass
NVNT	ac80	5610	Ant	5728.85	-47.78	2	-	49.45	Peak	68.2	Pass
NVNT	ac80	5610	Ant	5728.44	-57.69	2	0	39.54	Average	54	Pass
NVNT	ac80	5610	Ant	5735	-50.08	2	-	47.15	Peak	68.2	Pass
NVNT	ac80	5610	Ant	5735	-58.83	2	0	38.4	Average	54	Pass

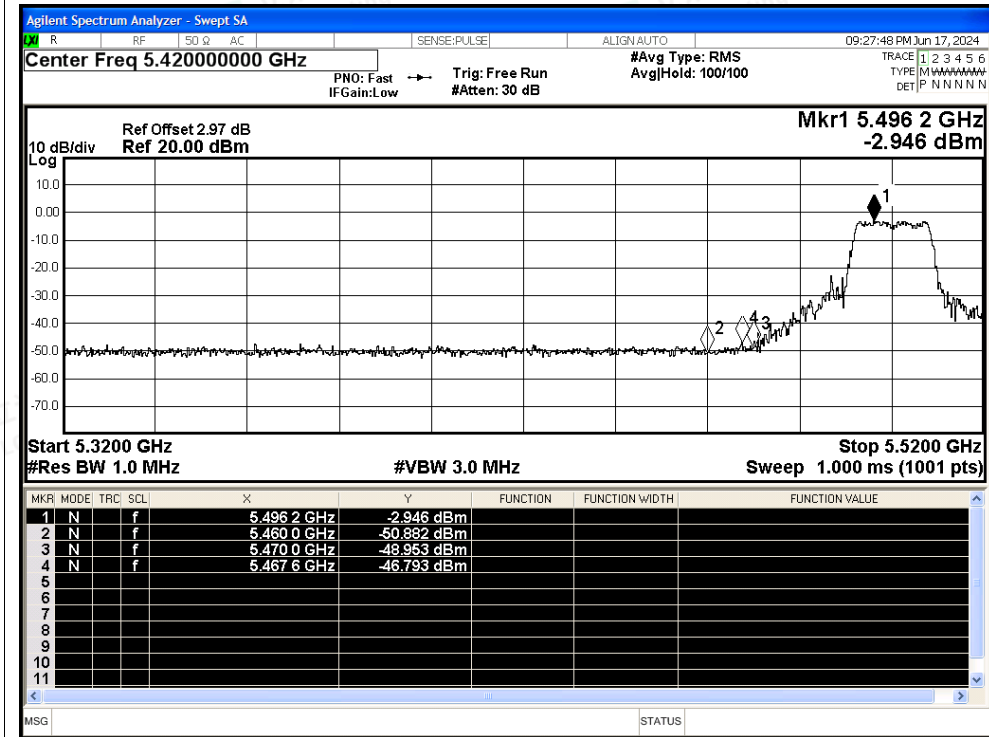


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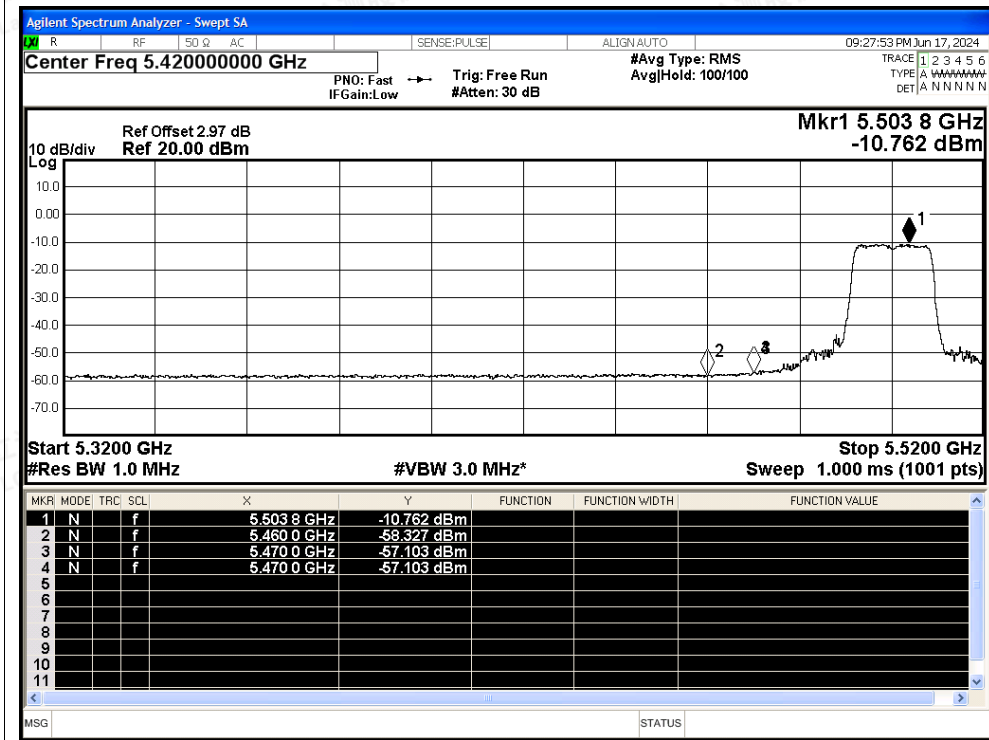


Test Graphs

Restrict Band NVNT a 5500MHz Ant Peak

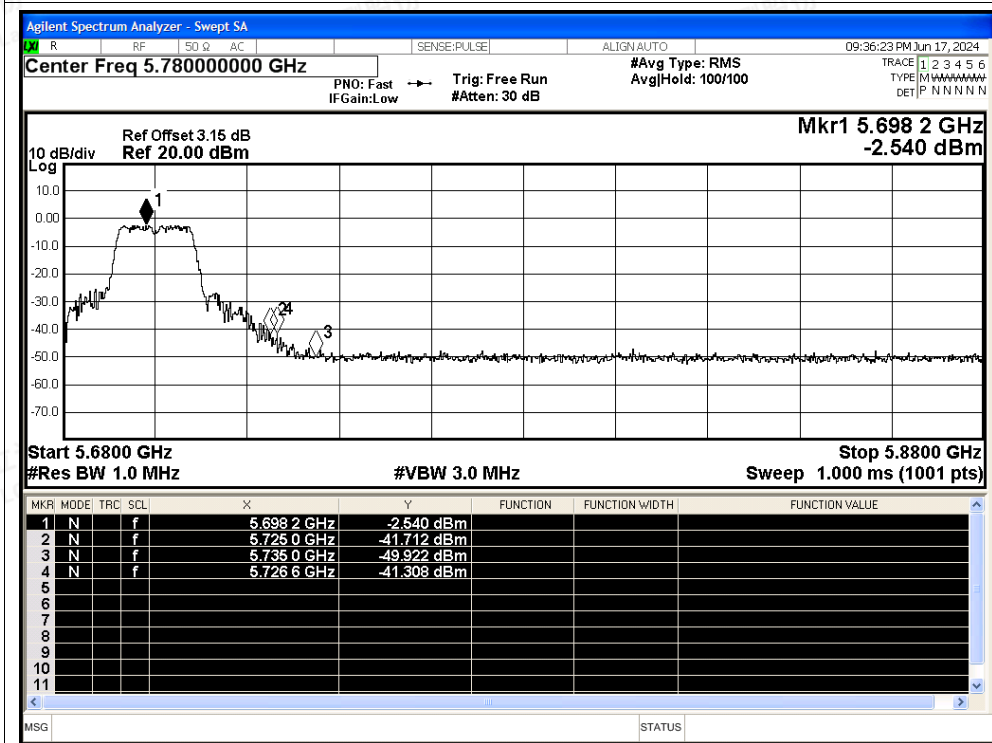


Restrict Band NVNT a 5500MHz Ant Average

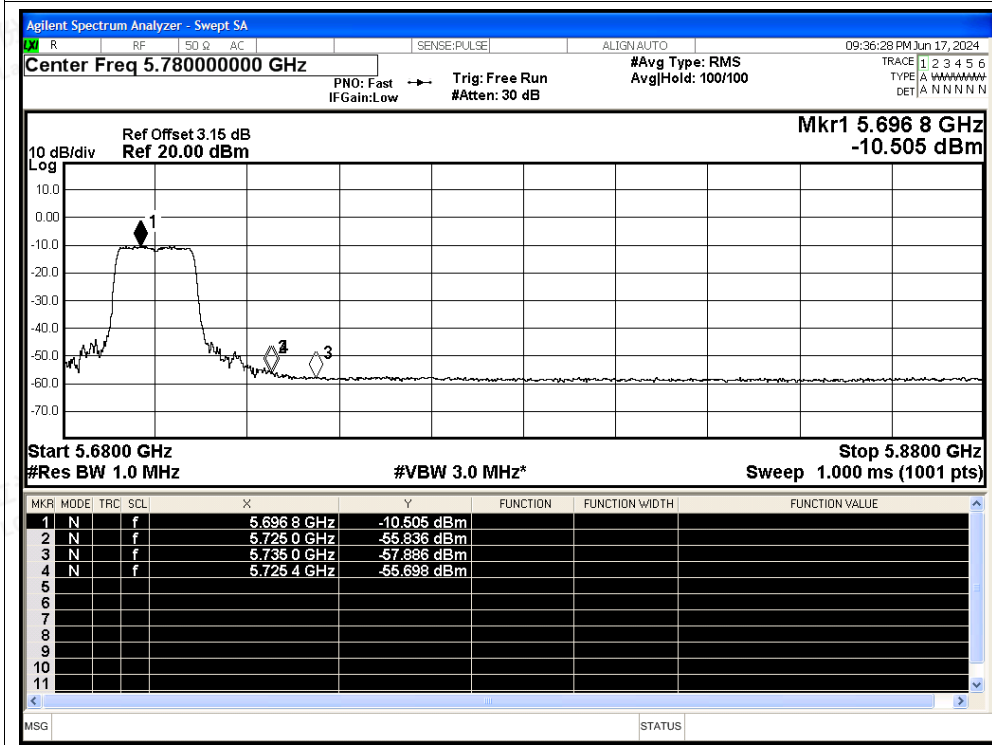




Restrict Band NVNT a 5700MHz Ant Peak

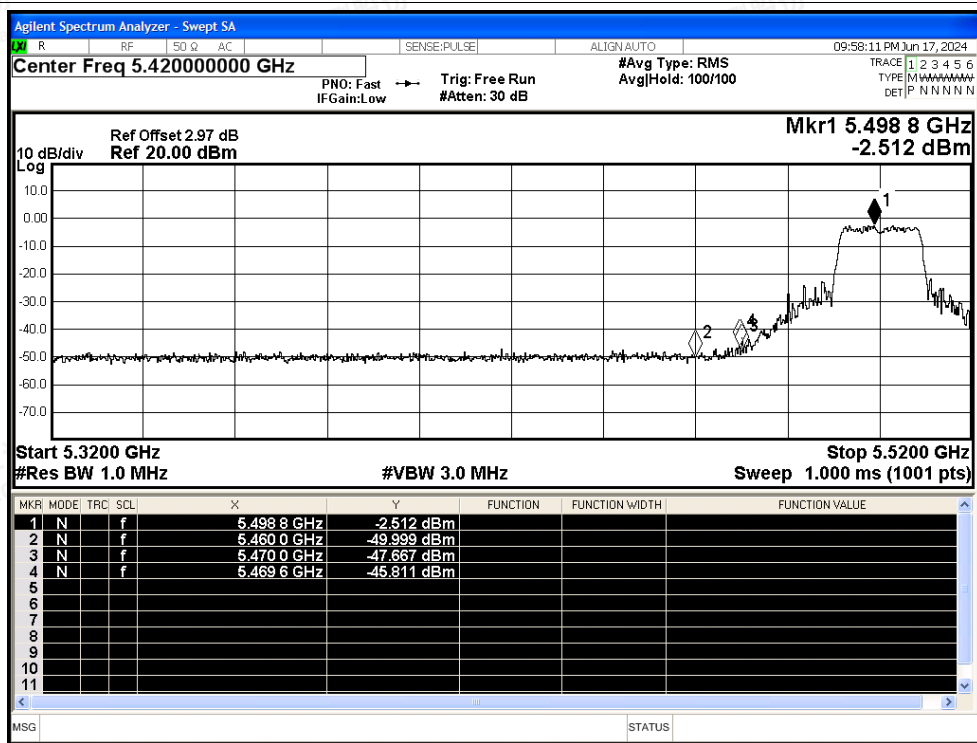


Restrict Band NVNT a 5700MHz Ant Average

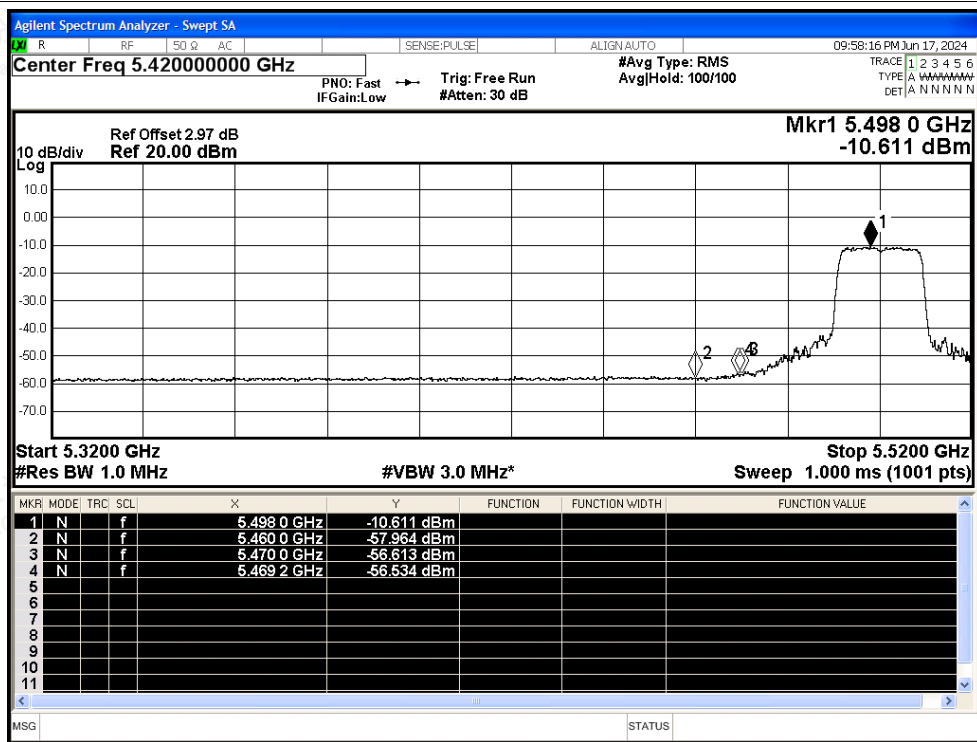




Restrict Band NVNT n20 5500MHz Ant Peak

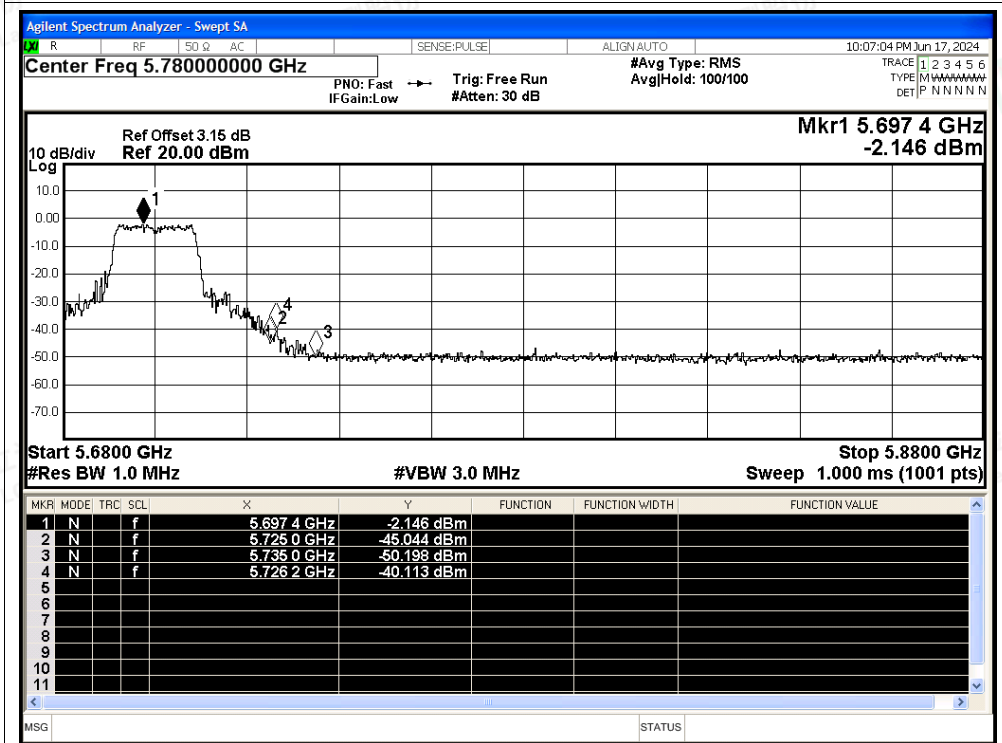


Restrict Band NVNT n20 5500MHz Ant Average

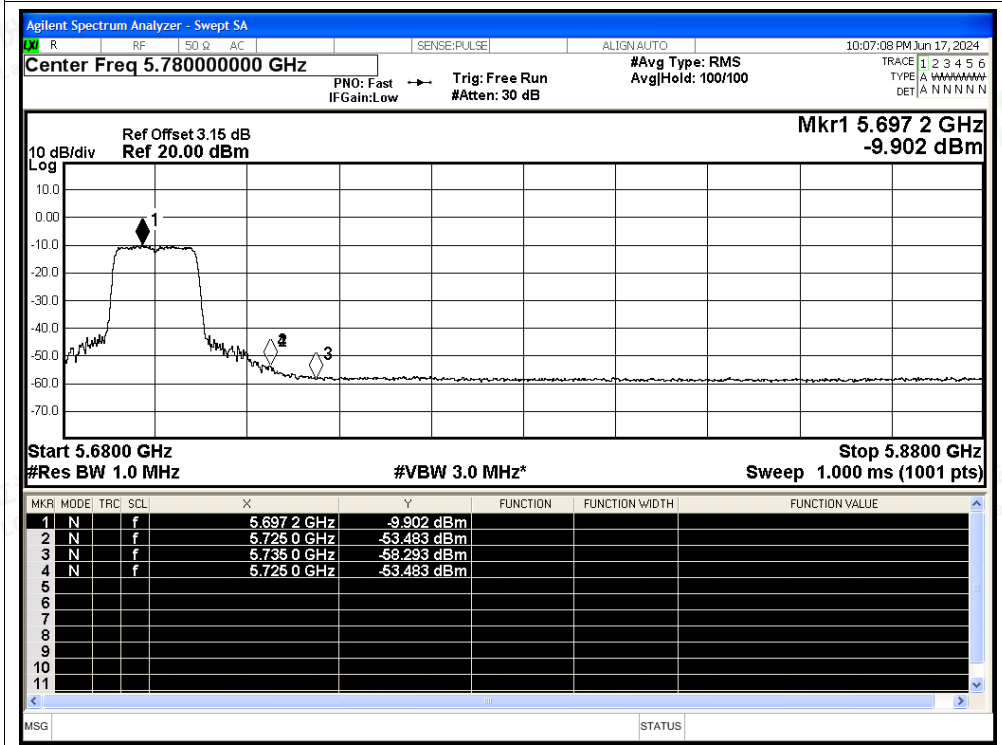




Restrict Band NVNT n20 5700MHz Ant Peak

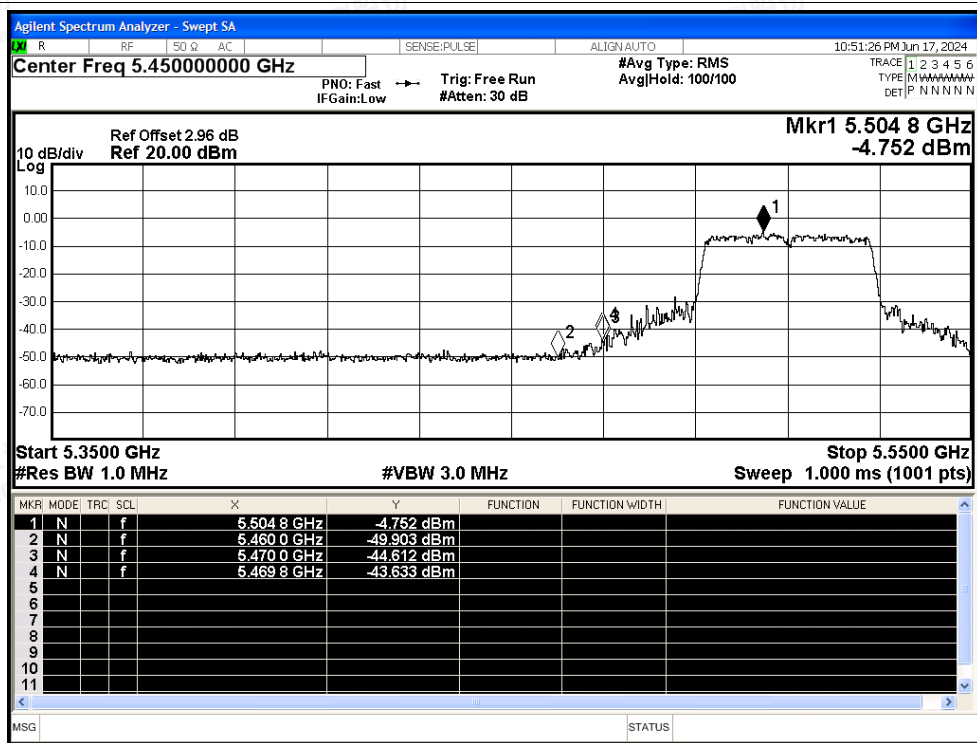


Restrict Band NVNT n20 5700MHz Ant Average

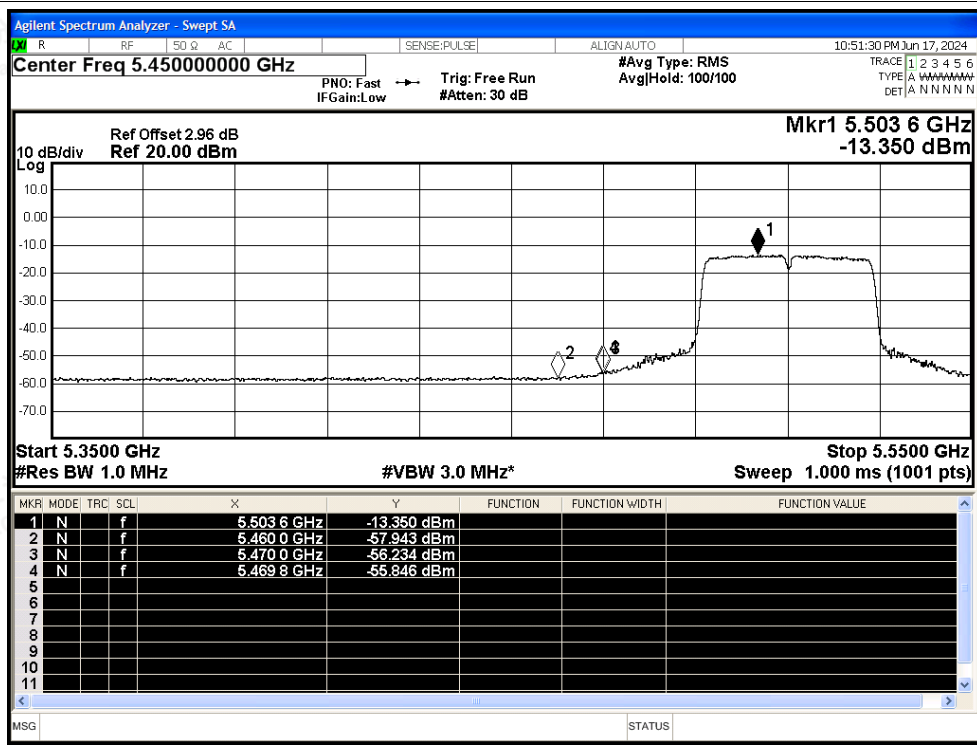




Restrict Band NVNT n40 5510MHz Ant Peak

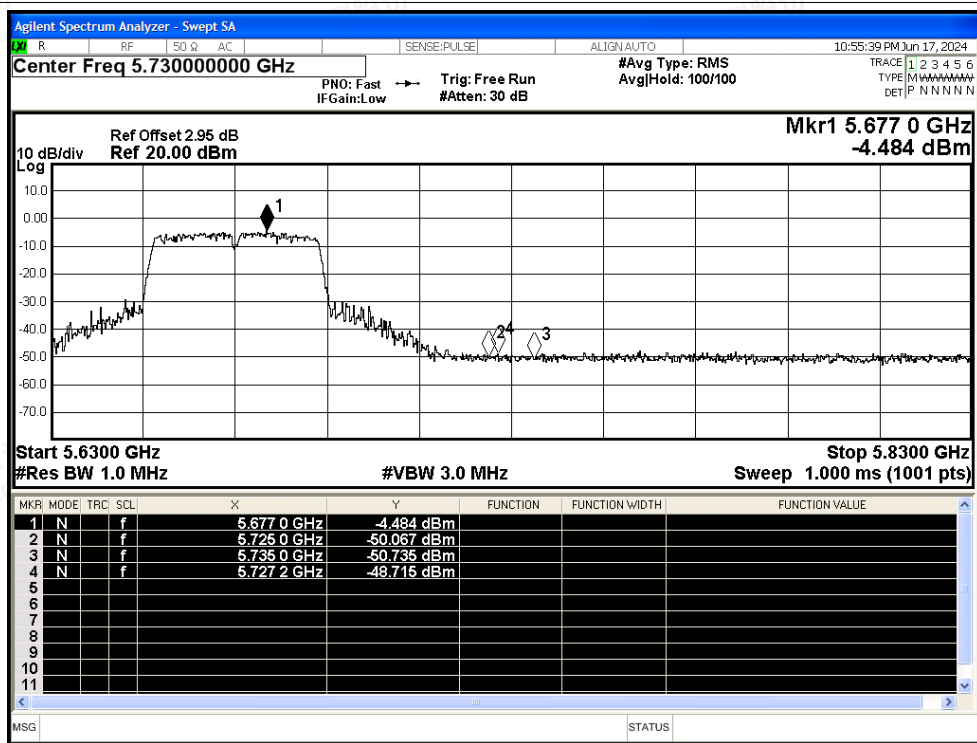


Restrict Band NVNT n40 5510MHz Ant Average

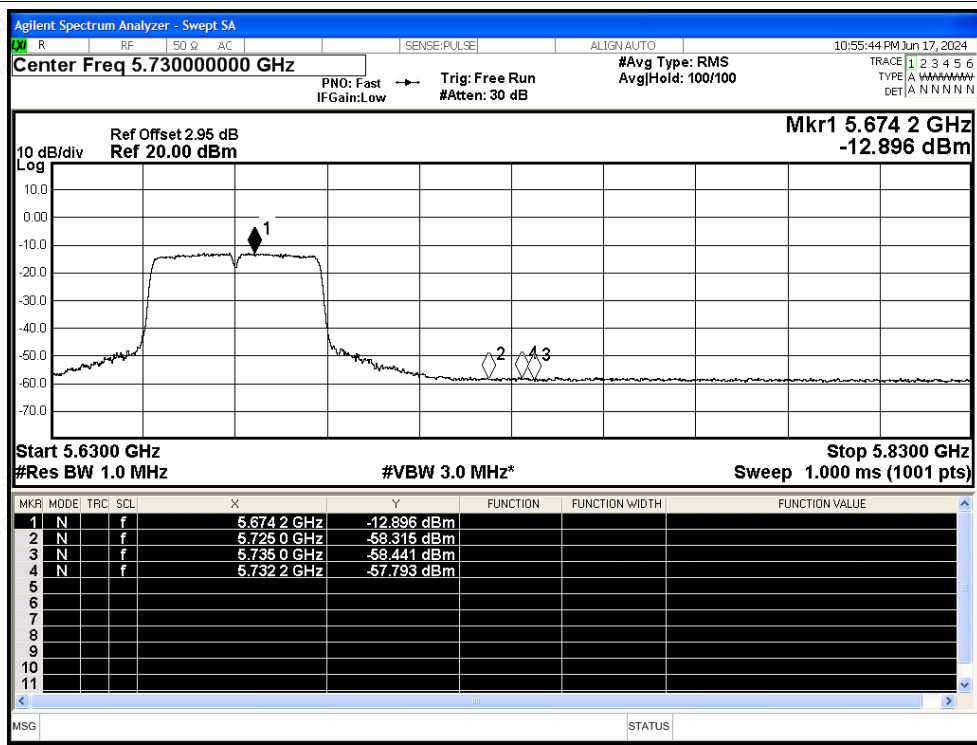




Restrict Band NVNT n40 5670MHz Ant Peak

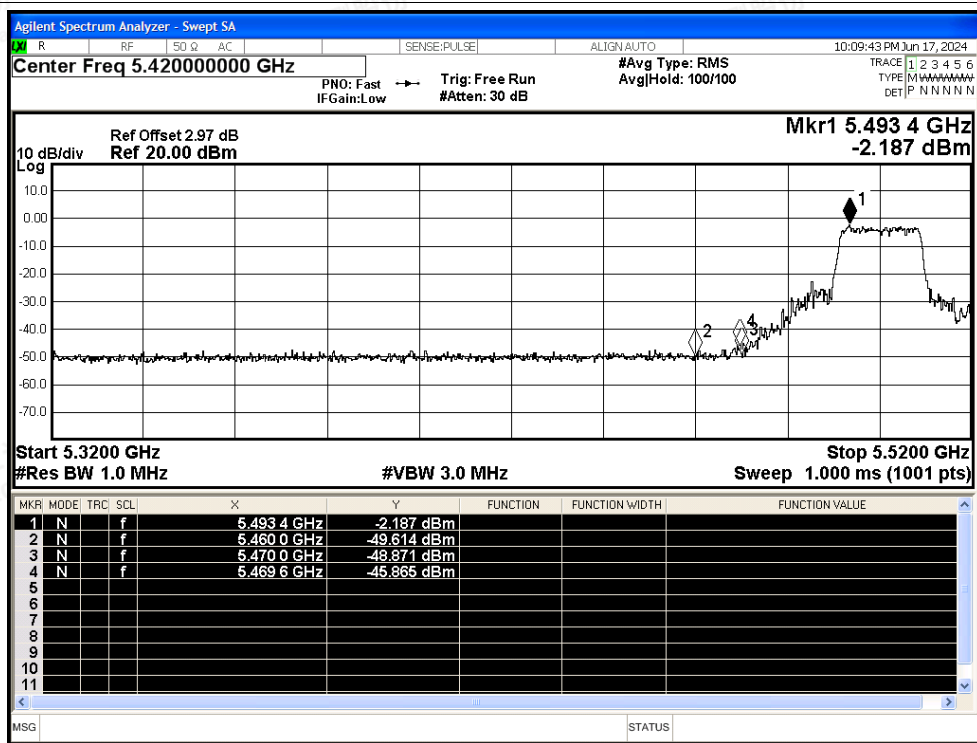


Restrict Band NVNT n40 5670MHz Ant Average

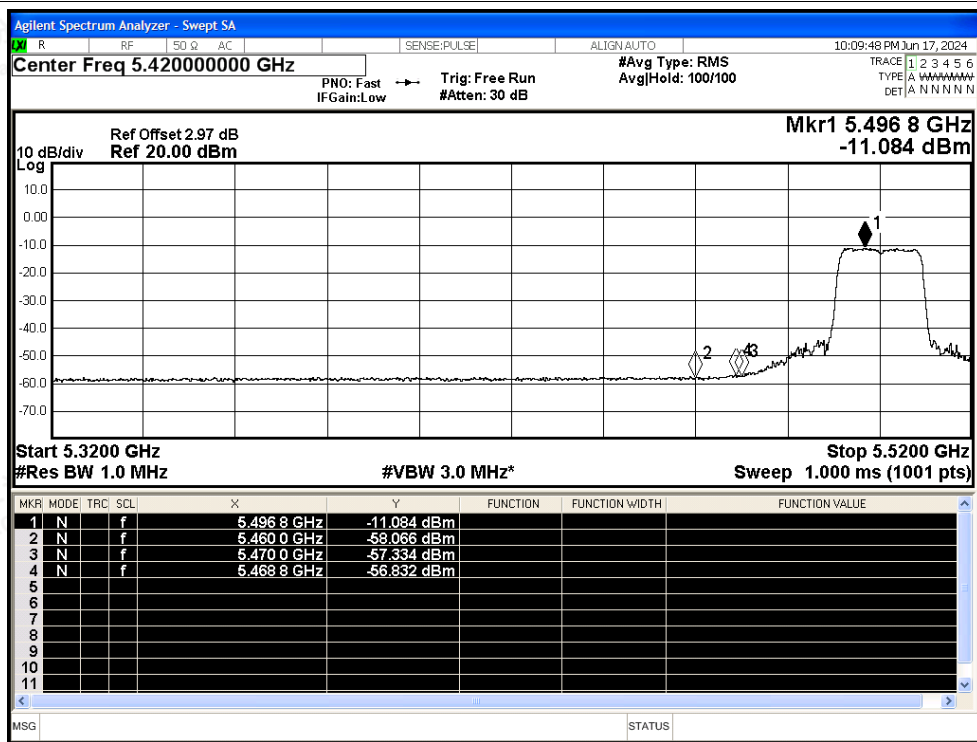




Restrict Band NVNT ac20 5500MHz Ant Peak

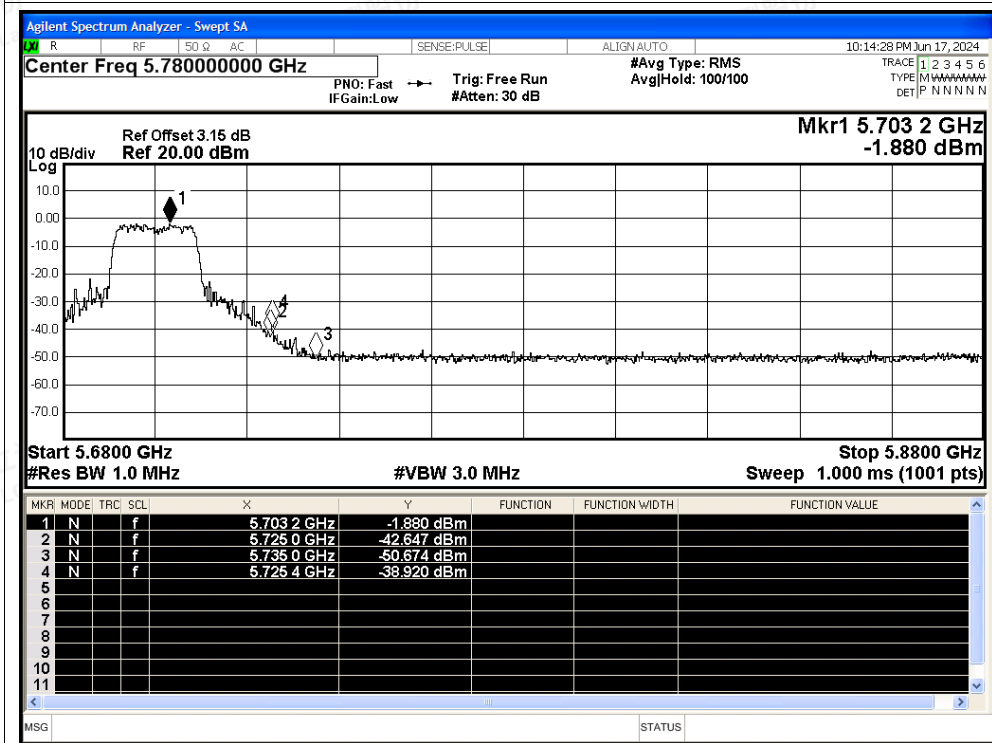


Restrict Band NVNT ac20 5500MHz Ant Average

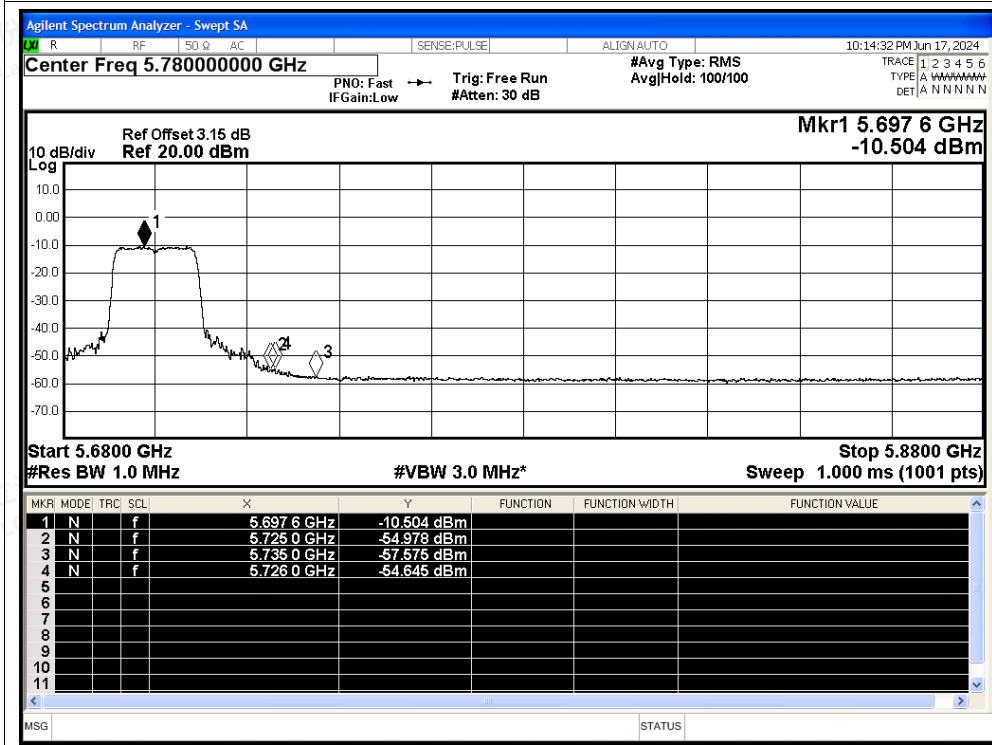




Restrict Band NVNT ac20 5700MHz Ant Peak

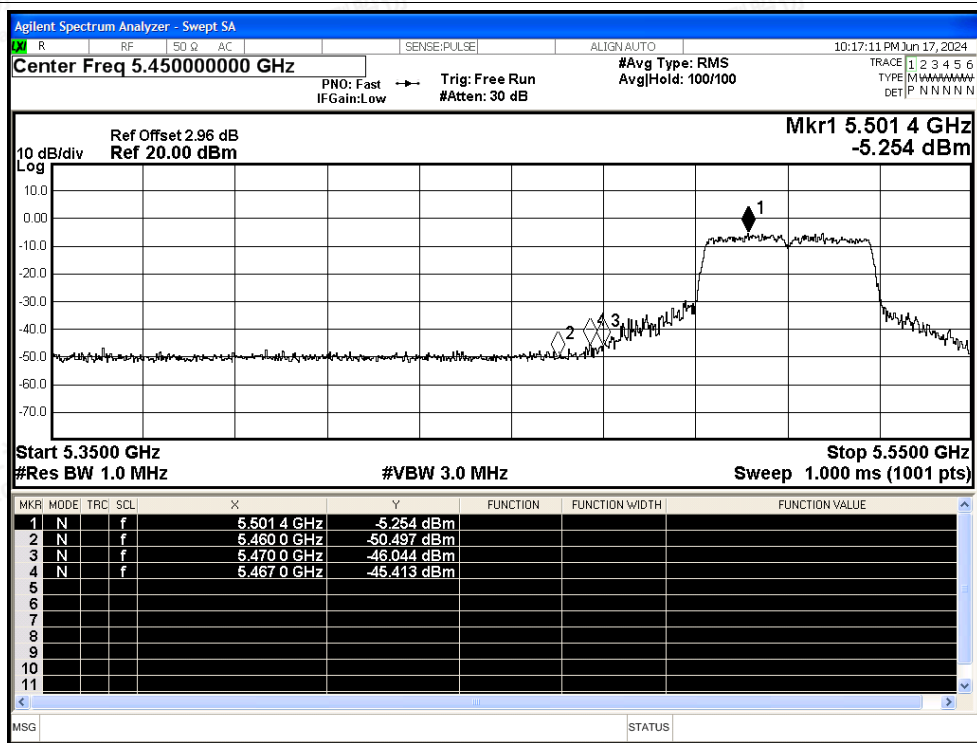


Restrict Band NVNT ac20 5700MHz Ant Average

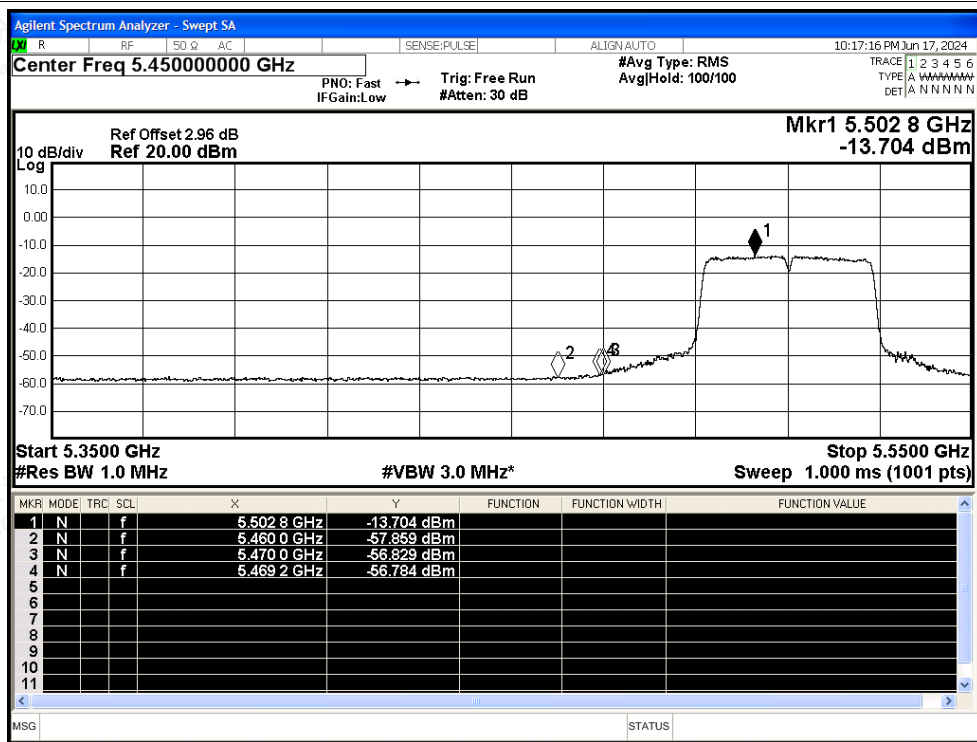




Restrict Band NVNT ac40 5510MHz Ant Peak

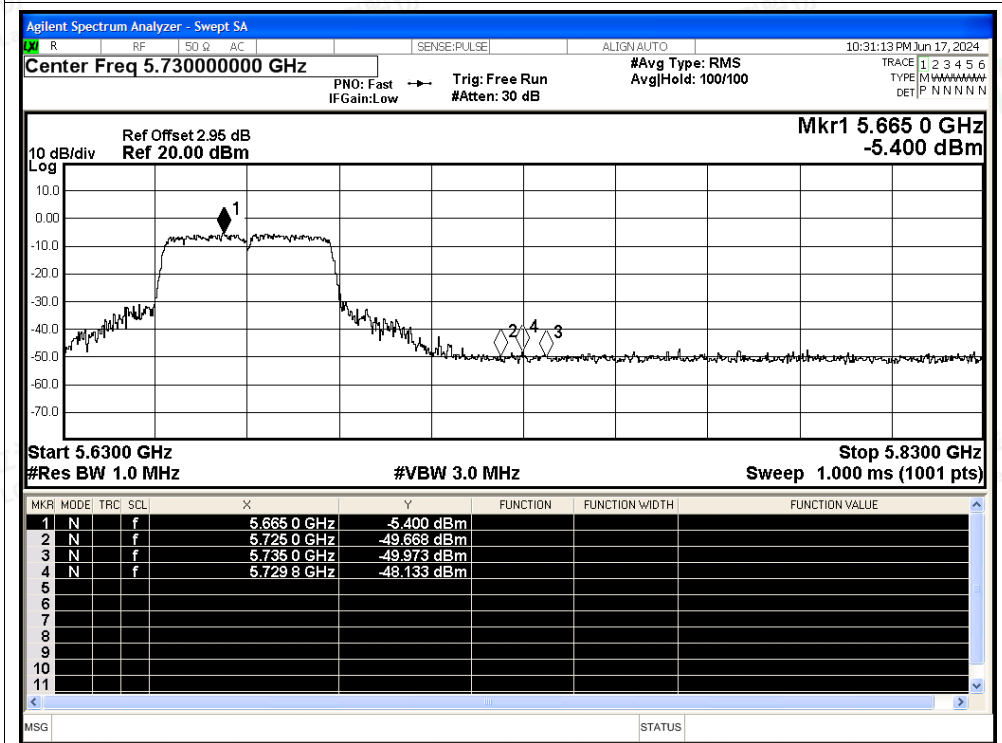


Restrict Band NVNT ac40 5510MHz Ant Average

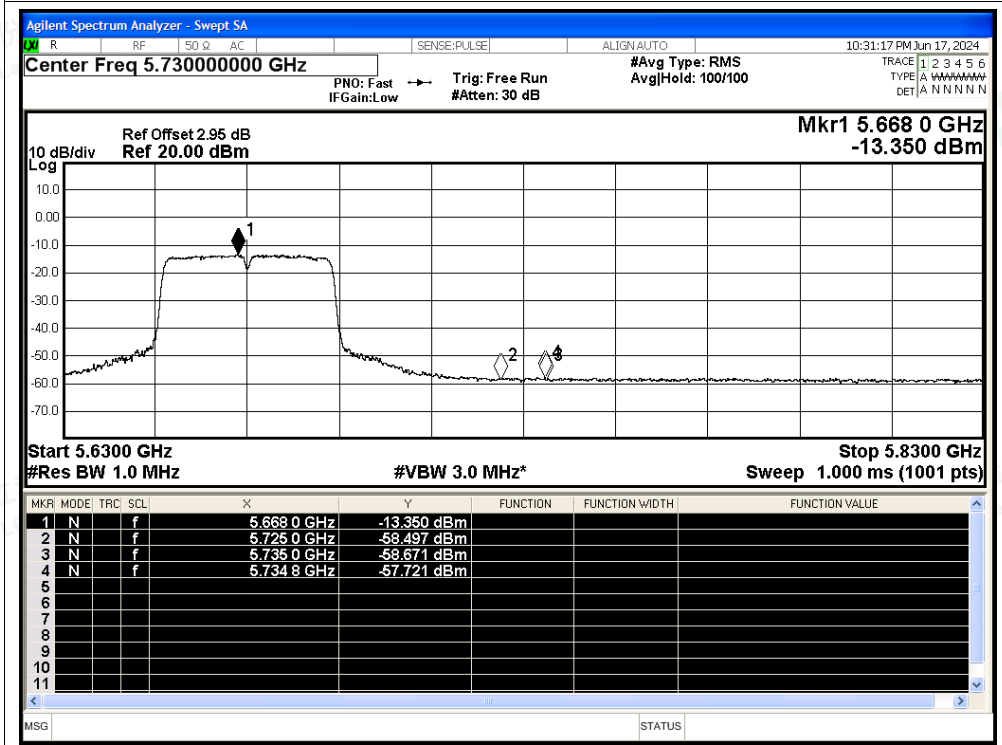




Restrict Band NVNT ac40 5670MHz Ant Peak

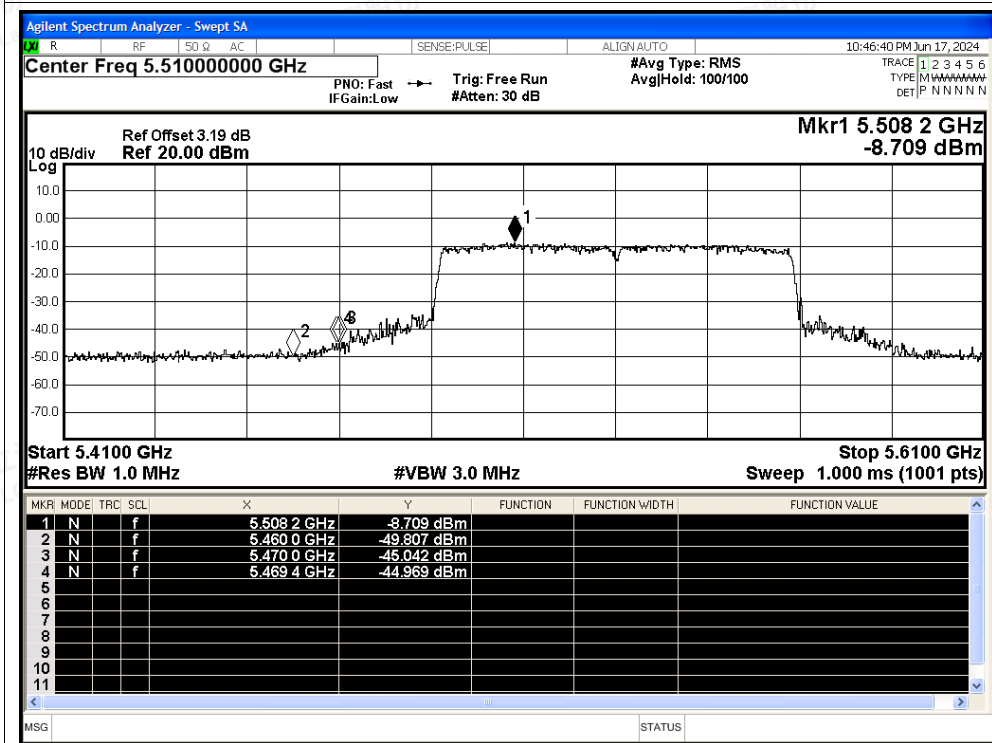


Restrict Band NVNT ac40 5670MHz Ant Average

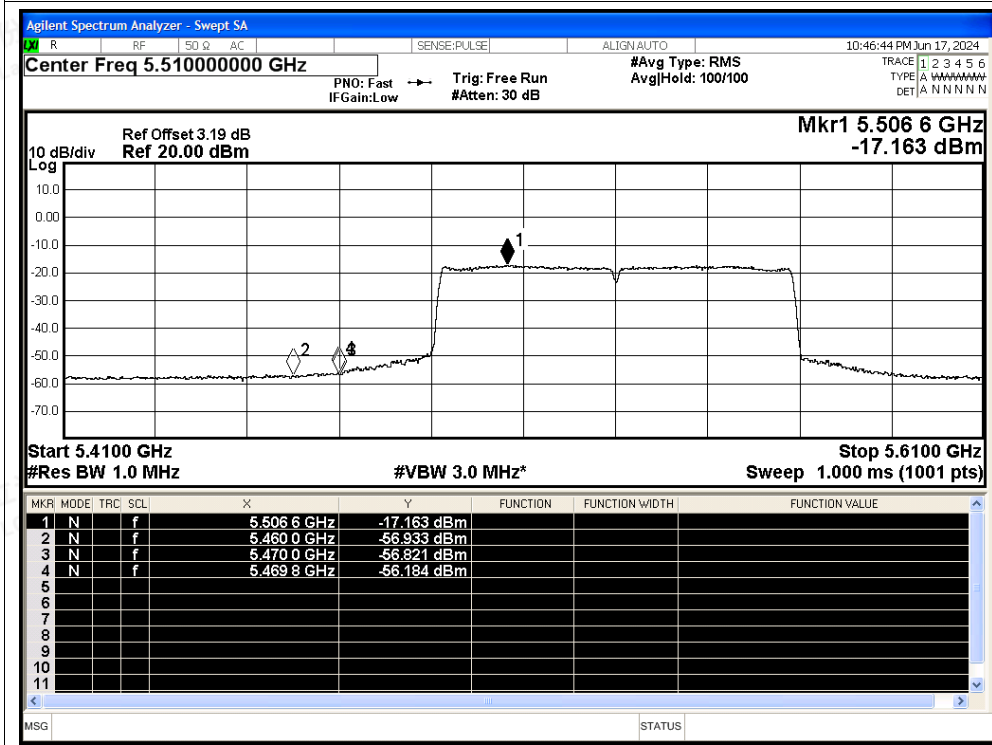




Restrict Band NVNT ac80 5530MHz Ant Peak

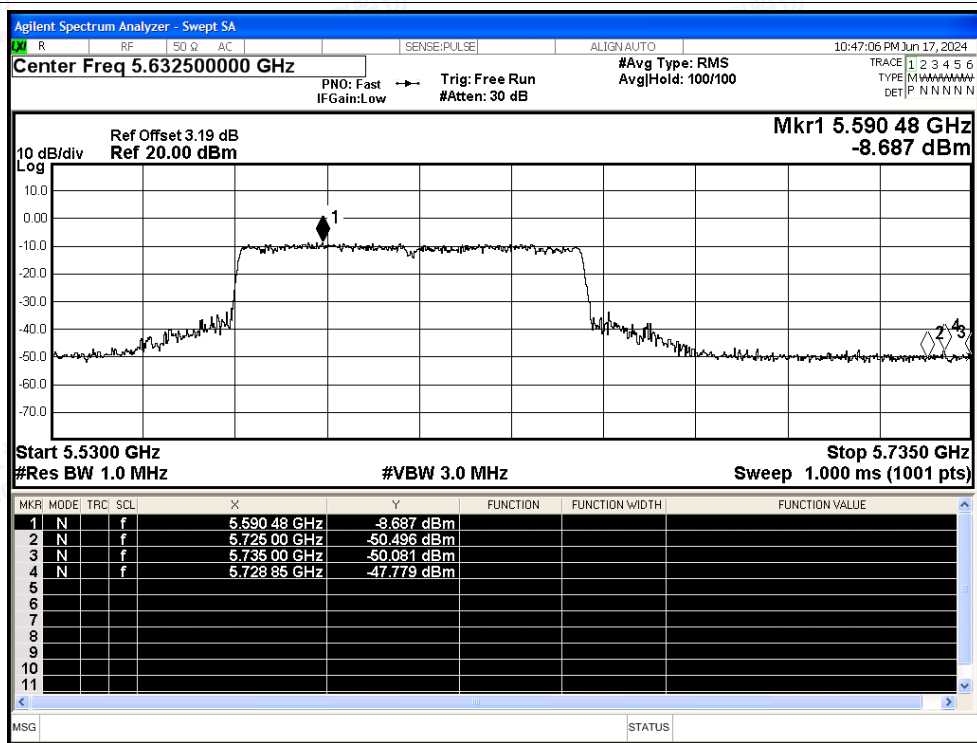


Restrict Band NVNT ac80 5530MHz Ant Average

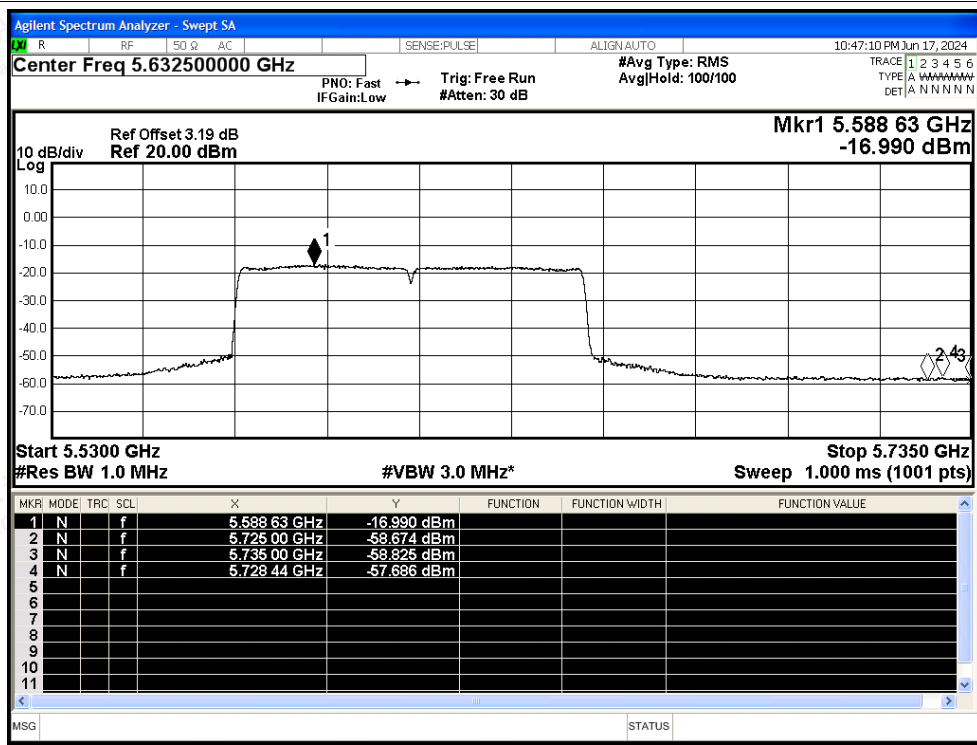




Restrict Band NVNT ac80 5610MHz Ant Peak



Restrict Band NVNT ac80 5610MHz Ant Average





D.5 Frequency Stability

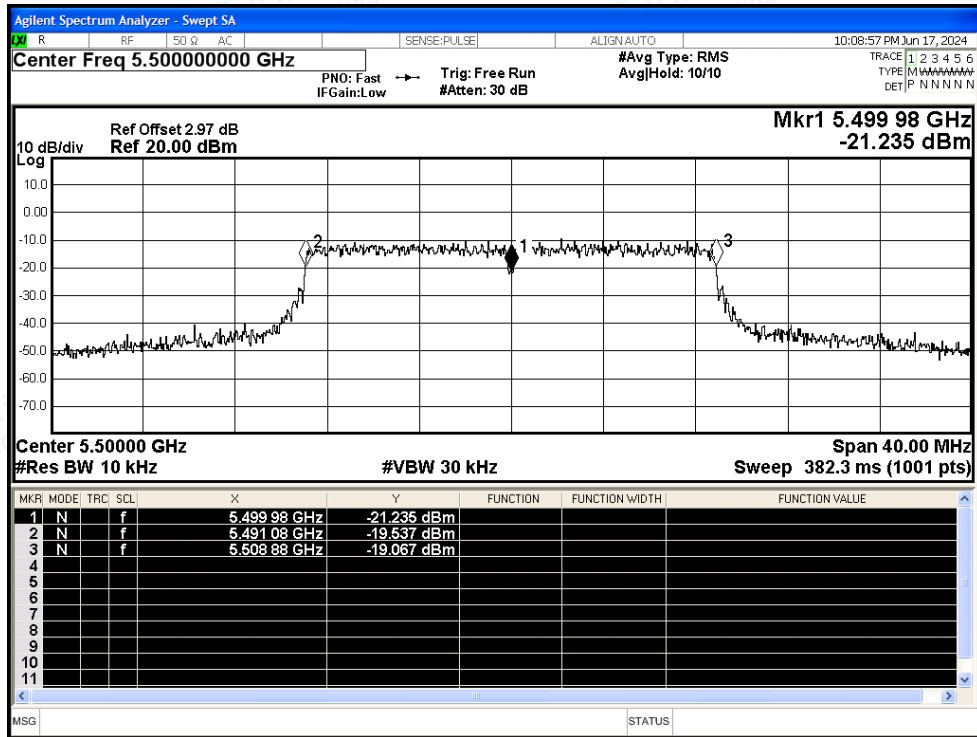
Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	ac20	5500	Ant	5499.98	-20000	-3.64	25	Pass
NVNT	ac20	5580	Ant	5579.98	-20000	-3.58	25	Pass
NVNT	ac20	5700	Ant	5699.98	-20000	-3.51	25	Pass
NVNT	ac40	5510	Ant	5510	0	0	25	Pass
NVNT	ac40	5550	Ant	5550	0	0	25	Pass
NVNT	ac40	5670	Ant	5670	0	0	25	Pass
NVNT	ac80	5530	Ant	5530	0	0	25	Pass
NVNT	ac80	5610	Ant	5610	0	0	25	Pass



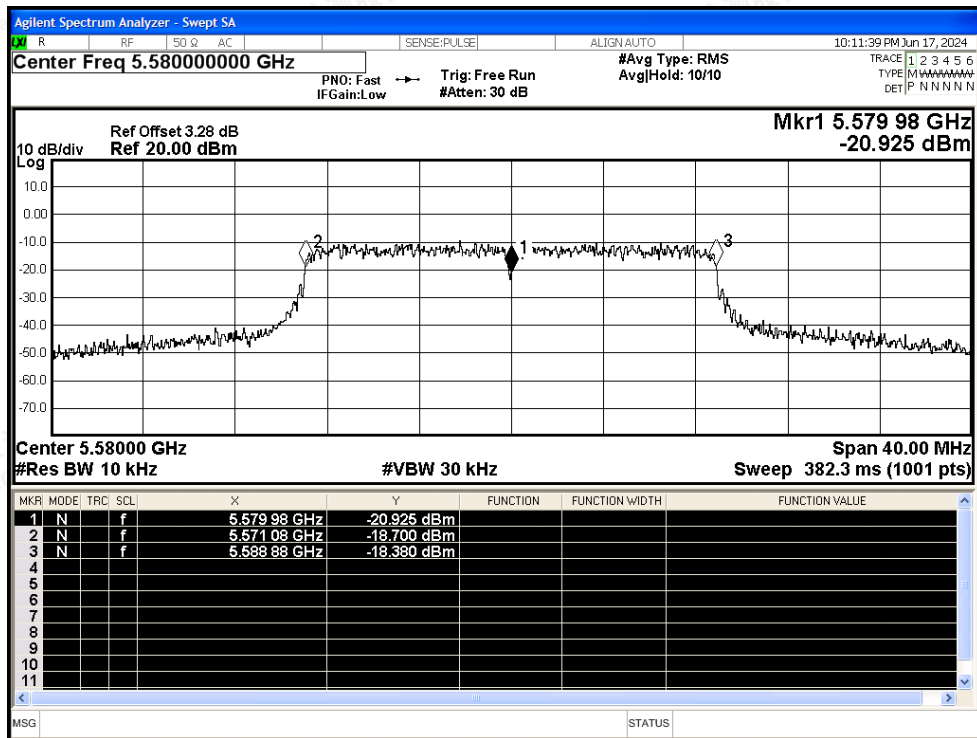


Test Graphs

Freq. Stability NVNT ac20 5500MHz Ant

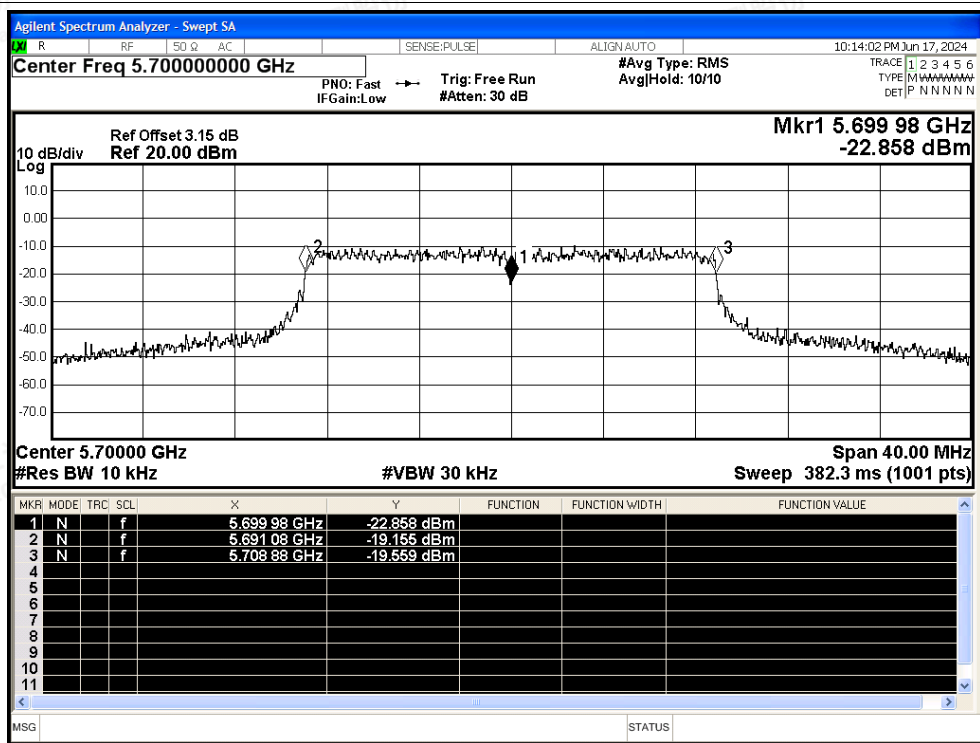


Freq. Stability NVNT ac20 5580MHz Ant

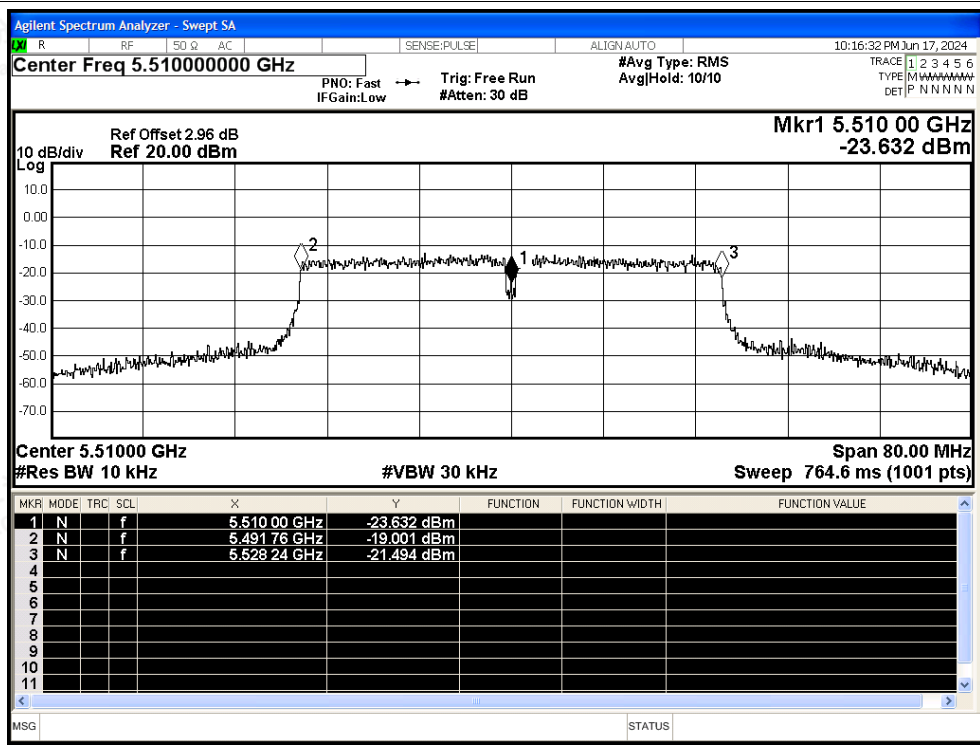




Freq. Stability NVNT ac20 5700MHz Ant

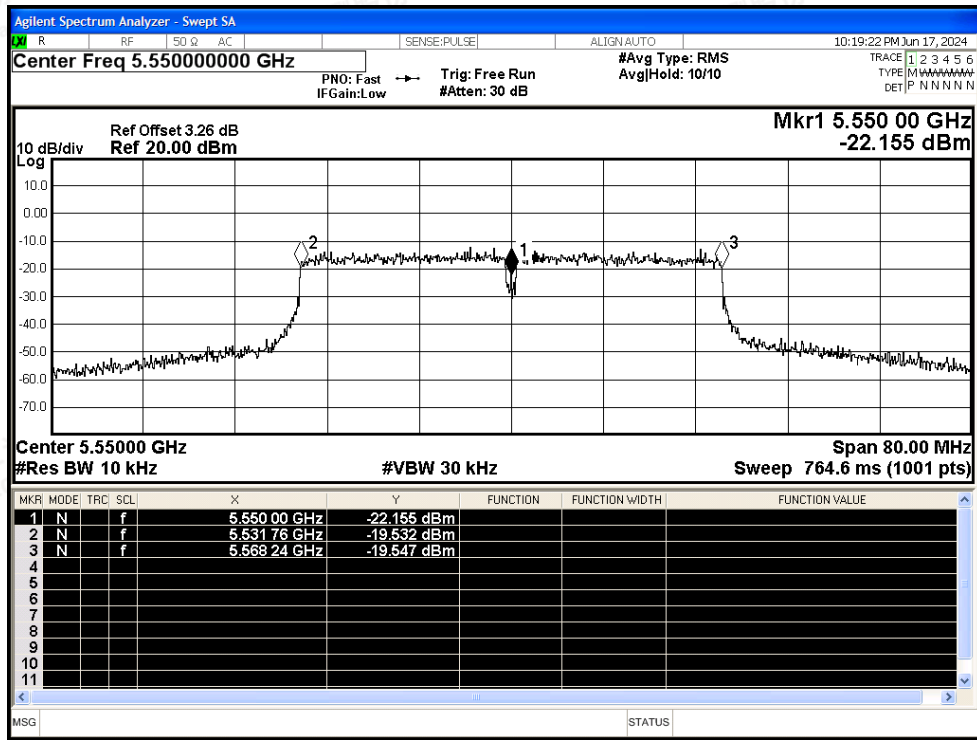


Freq. Stability NVNT ac40 5510MHz Ant

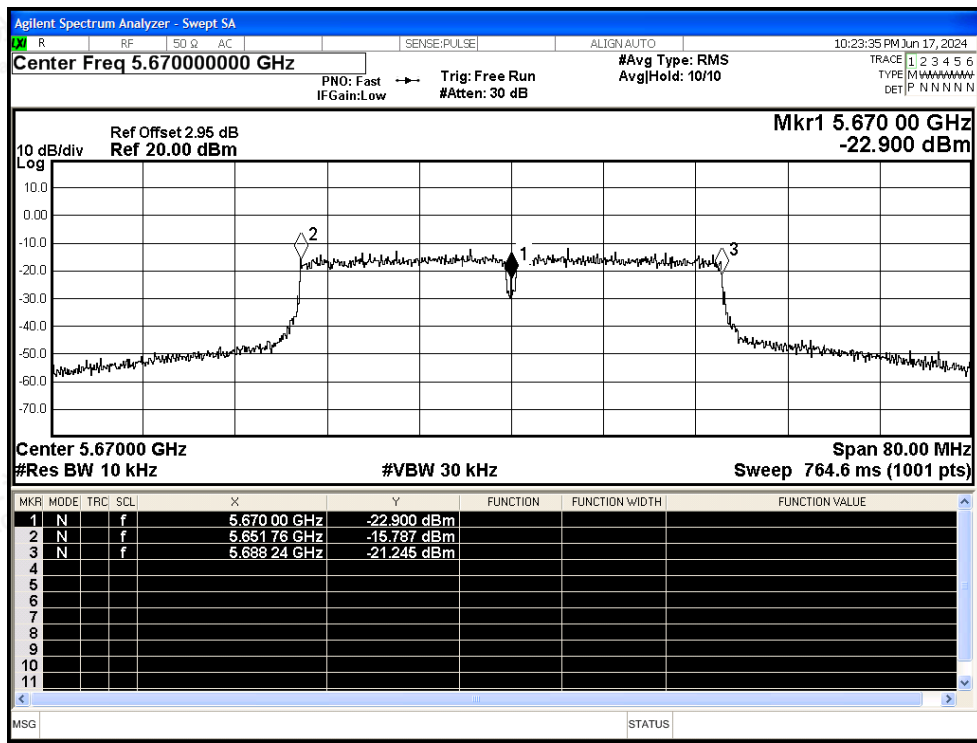




Freq. Stability NVNT ac40 5550MHz Ant

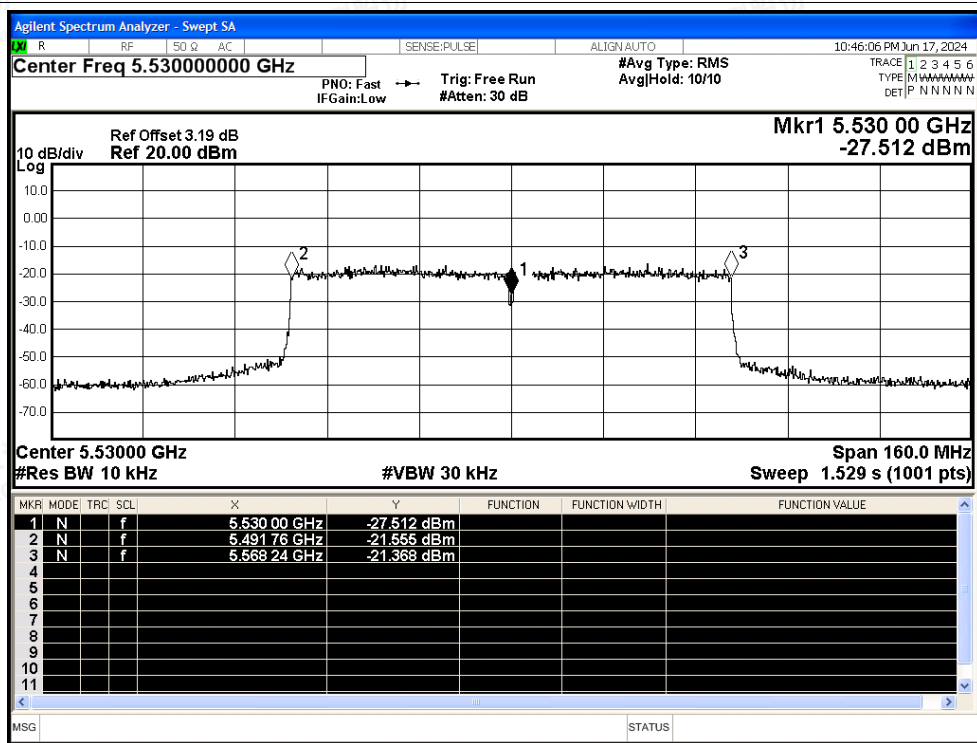


Freq. Stability NVNT ac40 5670MHz Ant

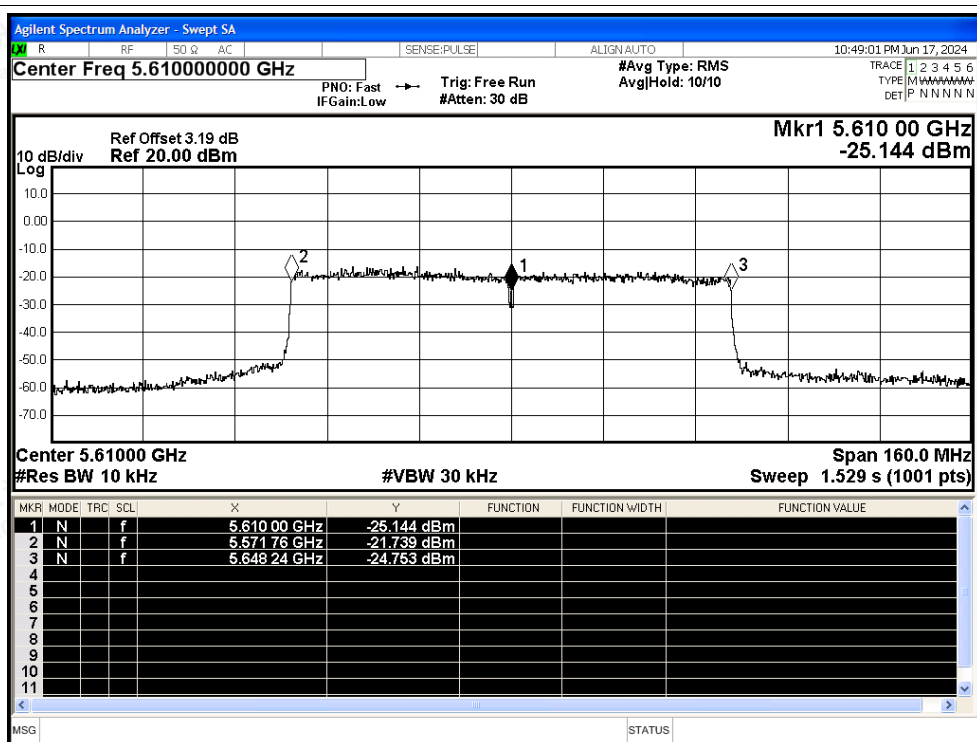




Freq. Stability NVNT ac80 5530MHz Ant



Freq. Stability NVNT ac80 5610MHz Ant





D.6 Duty Cycle

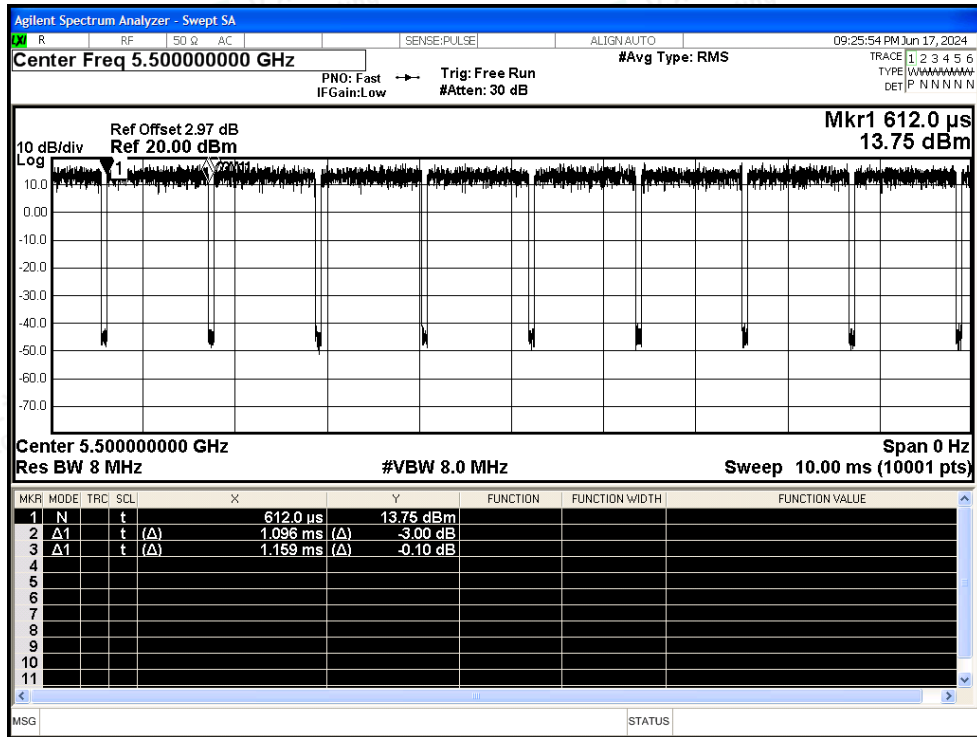
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5500	Ant	94.56	0.24	0.91
NVNT	a	5580	Ant	94.65	0.24	0.91
NVNT	a	5700	Ant	94.65	0.24	0.91
NVNT	n20	5500	Ant	93.77	0.28	1.07
NVNT	n20	5580	Ant	93.67	0.28	1.07
NVNT	n20	5700	Ant	93.77	0.28	1.07
NVNT	n40	5510	Ant	97.18	0.12	0.46
NVNT	n40	5550	Ant	97.23	0.12	0.46
NVNT	n40	5670	Ant	97.18	0.12	0.46
NVNT	ac20	5500	Ant	93.72	0.28	1.06
NVNT	ac20	5580	Ant	93.72	0.28	1.06
NVNT	ac20	5700	Ant	93.72	0.28	1.06
NVNT	ac40	5510	Ant	97.19	0.12	0.46
NVNT	ac40	5550	Ant	97.19	0.12	0.46
NVNT	ac40	5670	Ant	97.2	0.12	0.46
NVNT	ac80	5530	Ant	94.32	0.25	0.97
NVNT	ac80	5610	Ant	94.41	0.25	0.97



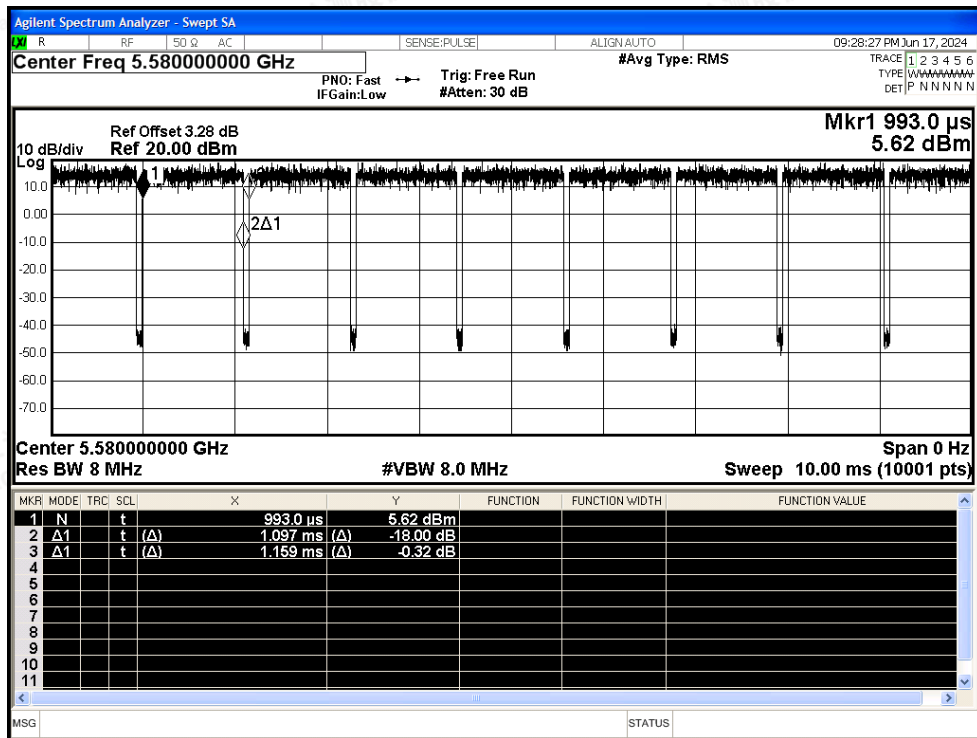


Test Graphs

Duty Cycle NVNT a 5500MHz Ant

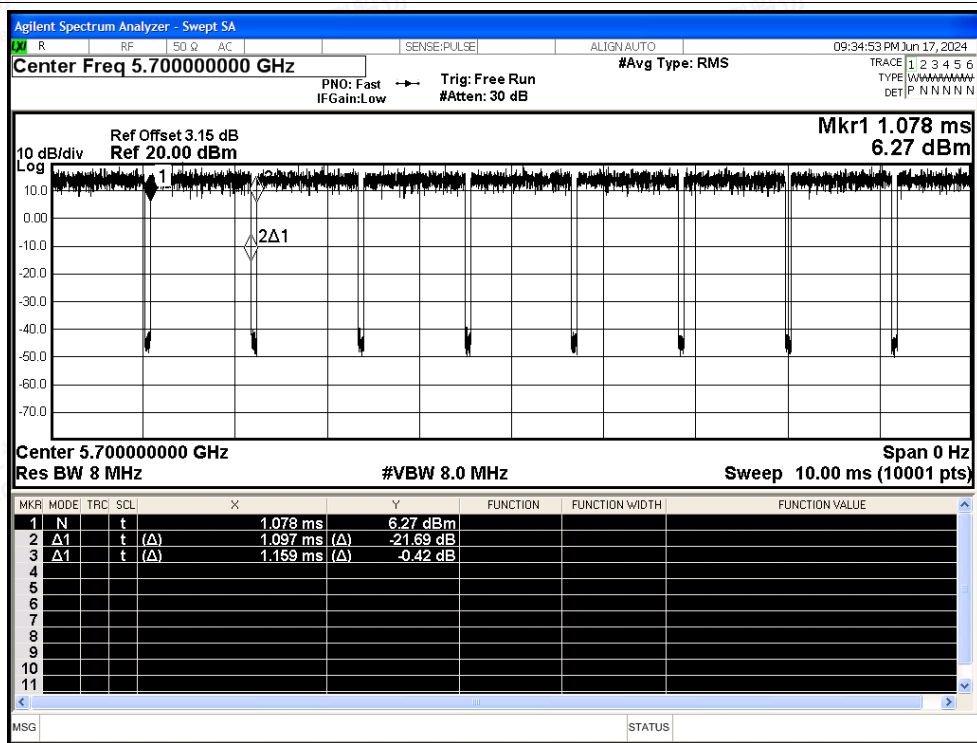


Duty Cycle NVNT a 5580MHz Ant

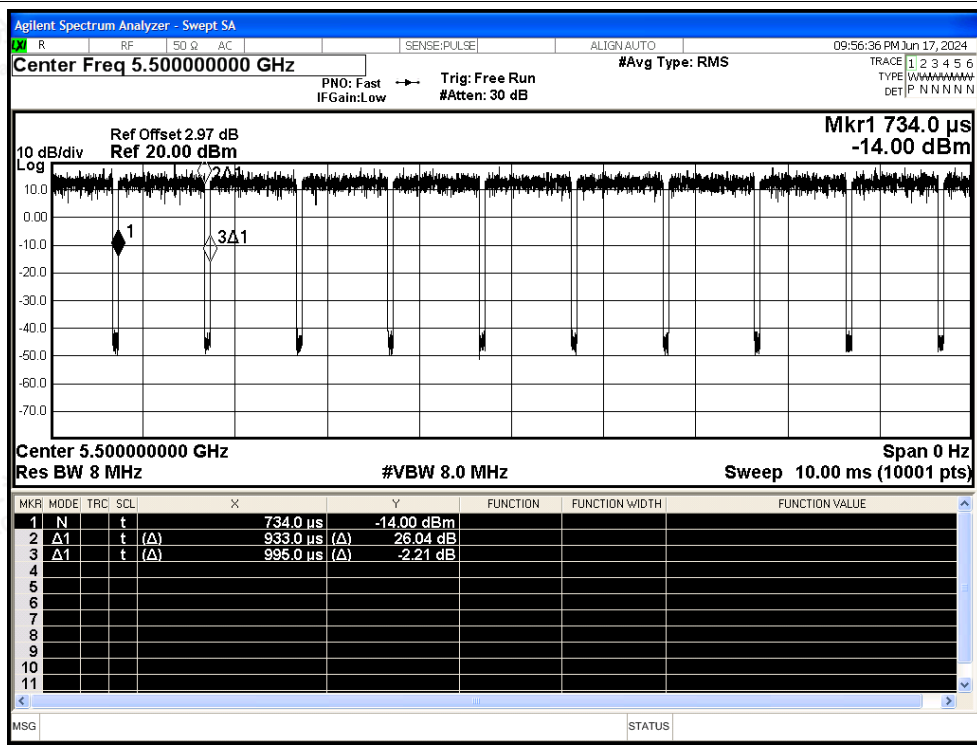




Duty Cycle NVNT a 5700MHz Ant

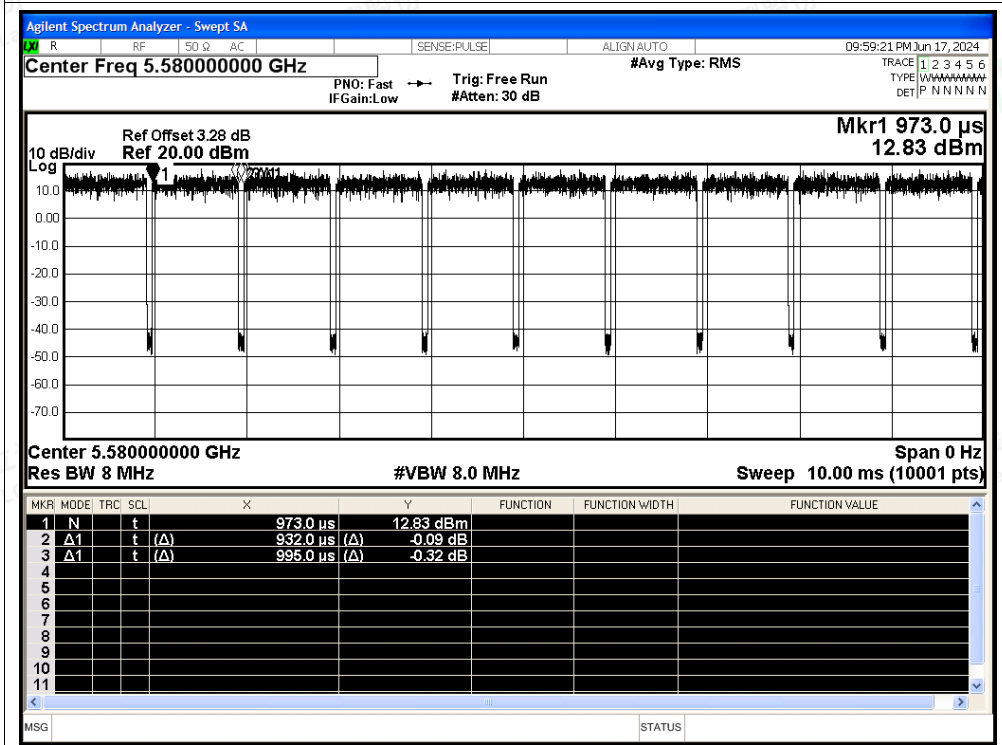


Duty Cycle NVNT n20 5500MHz Ant

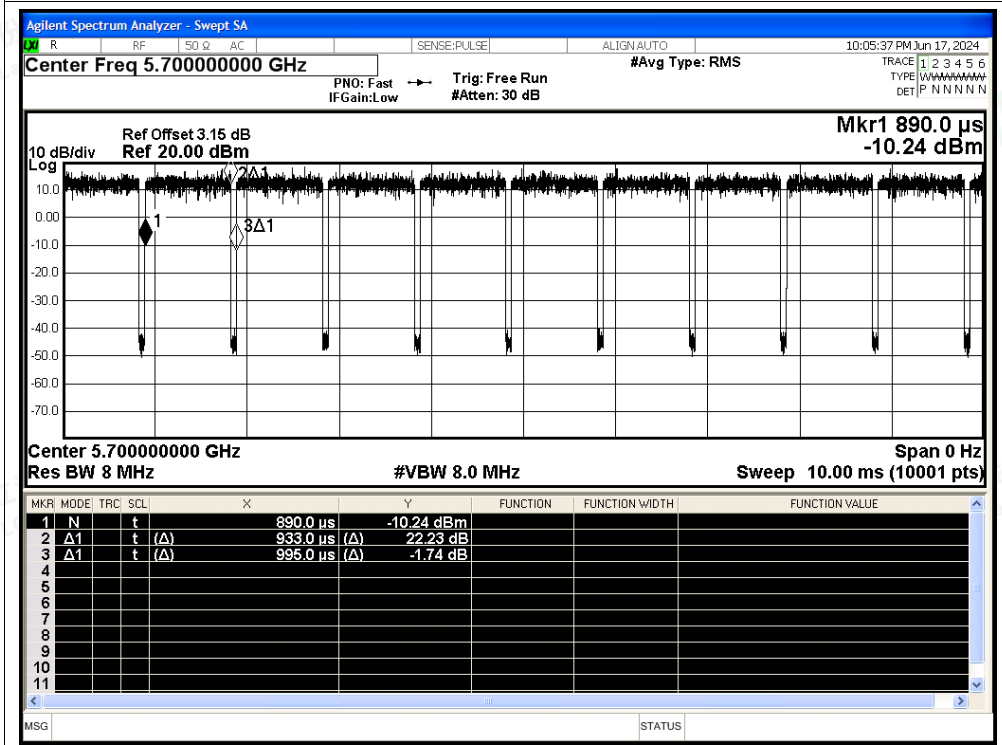


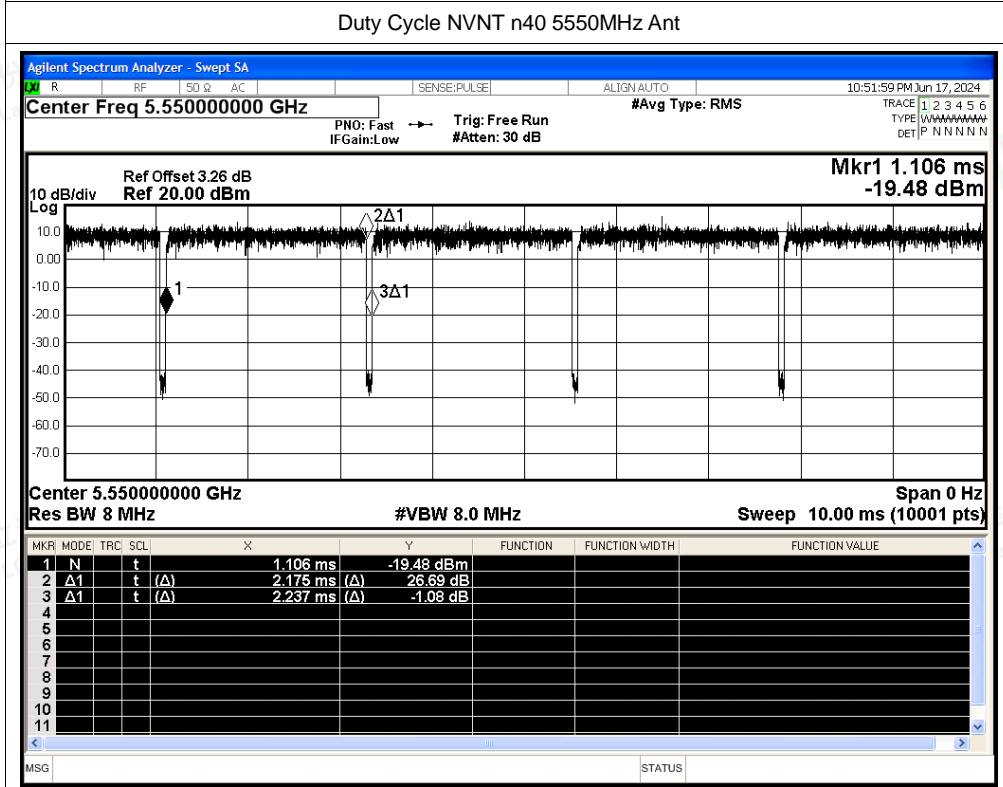
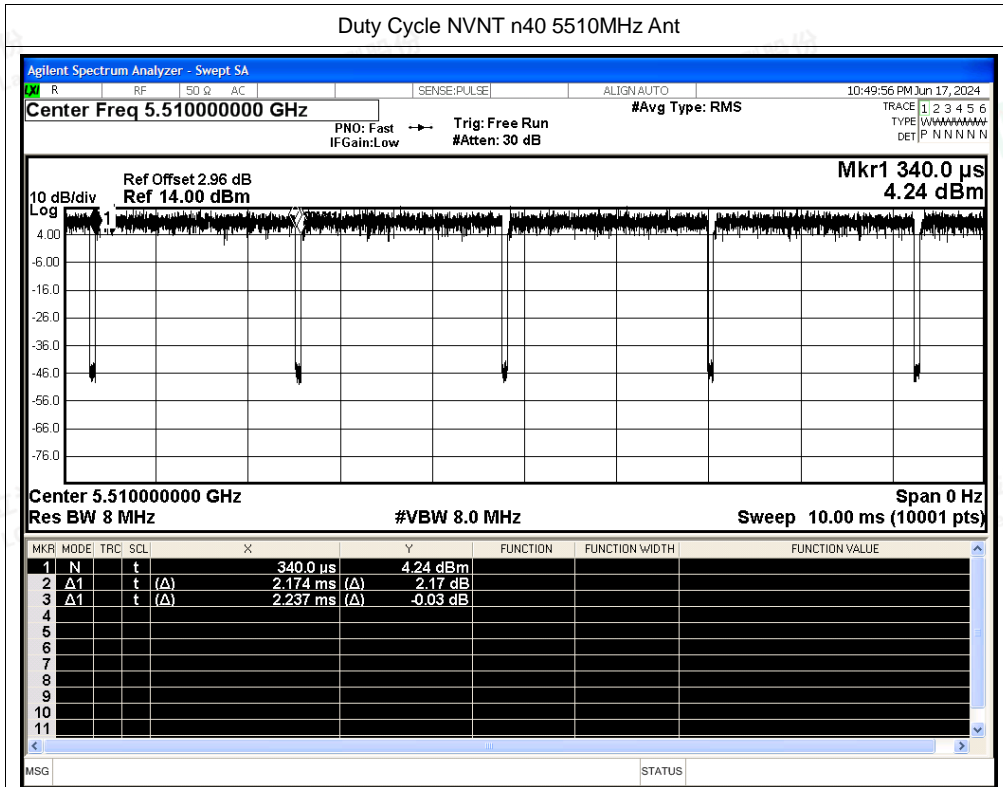


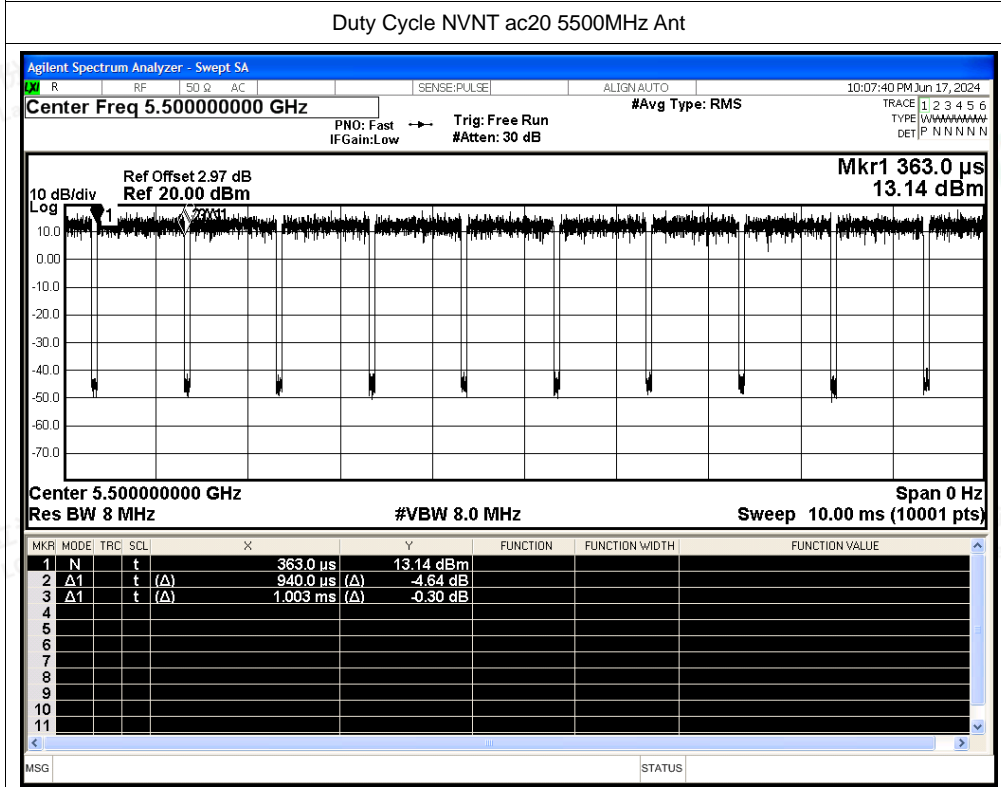
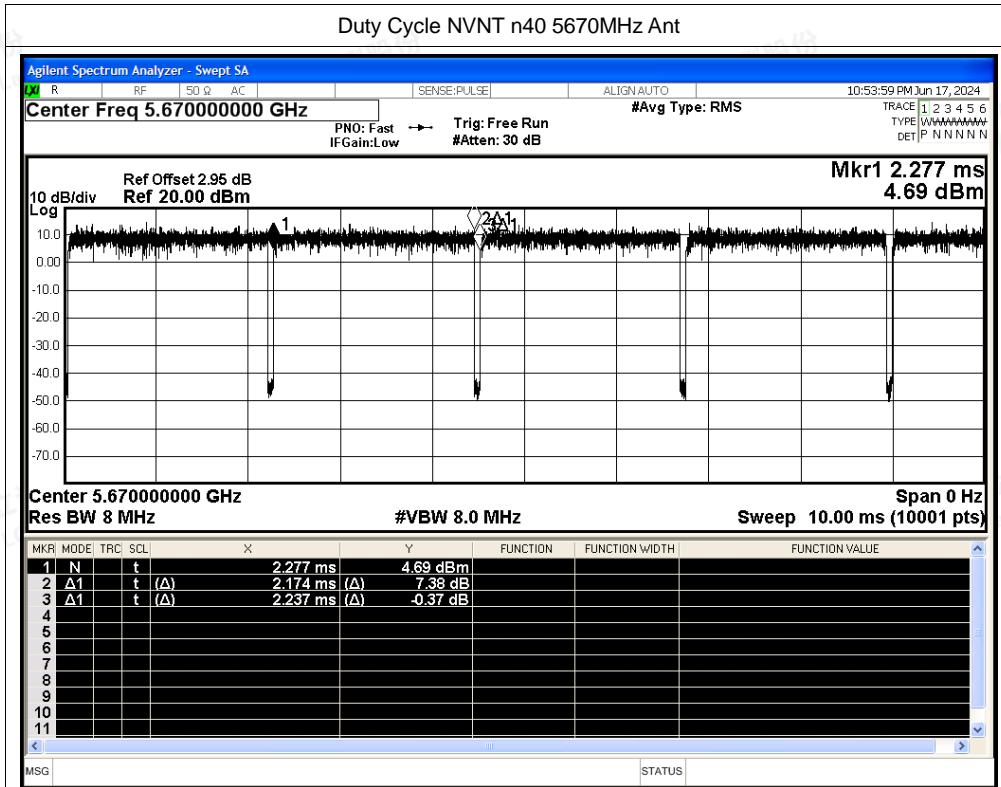
Duty Cycle NVNT n20 5580MHz Ant



Duty Cycle NVNT n20 5700MHz Ant

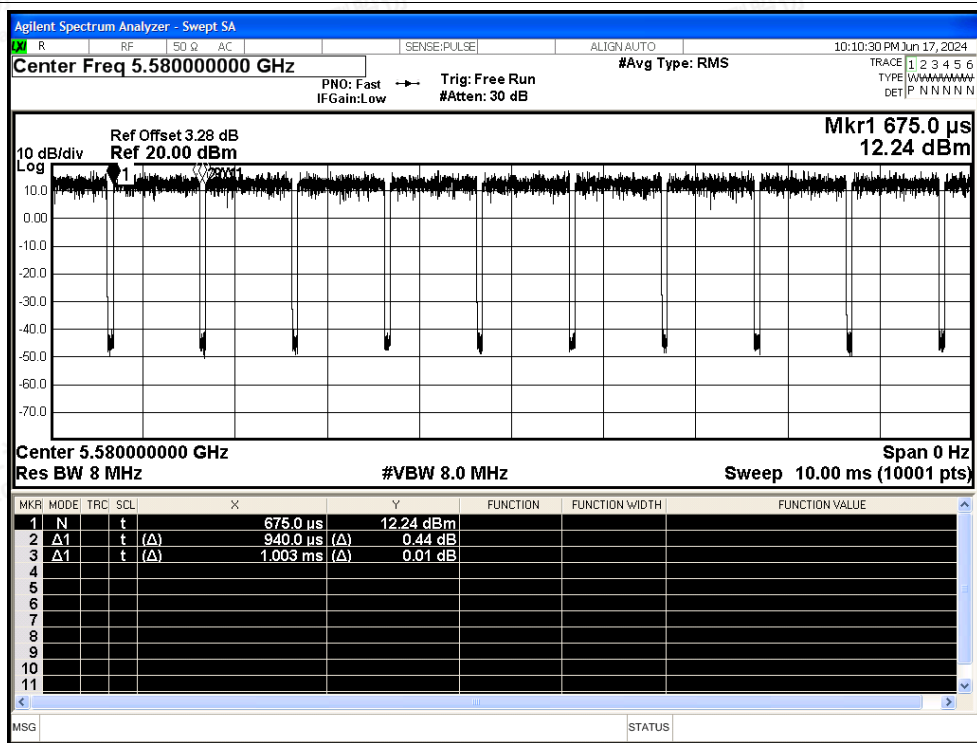




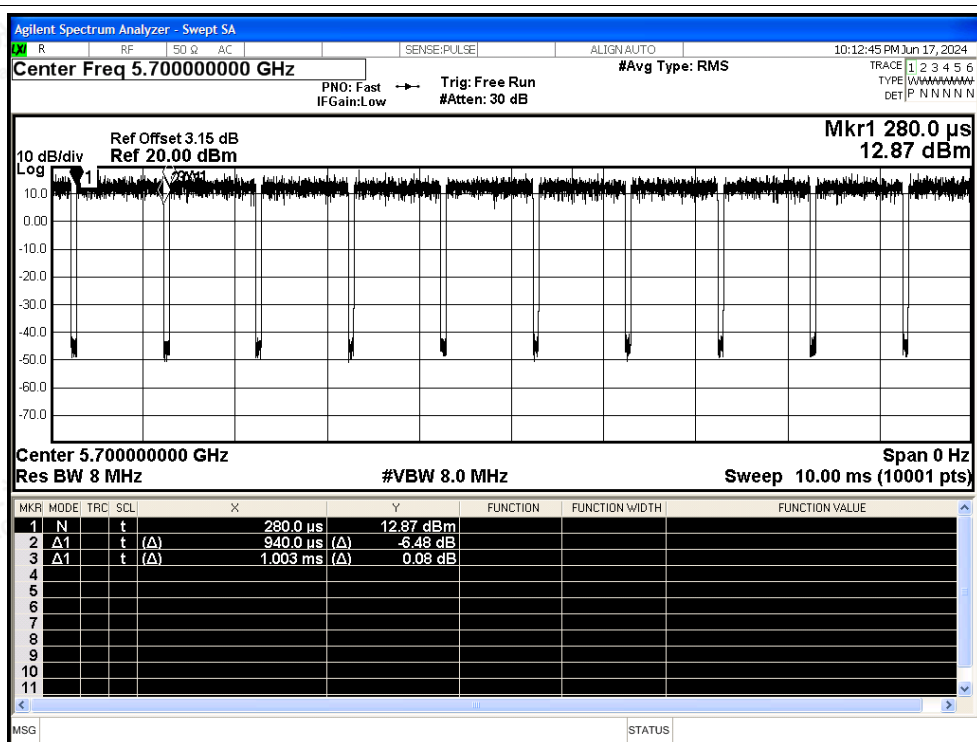


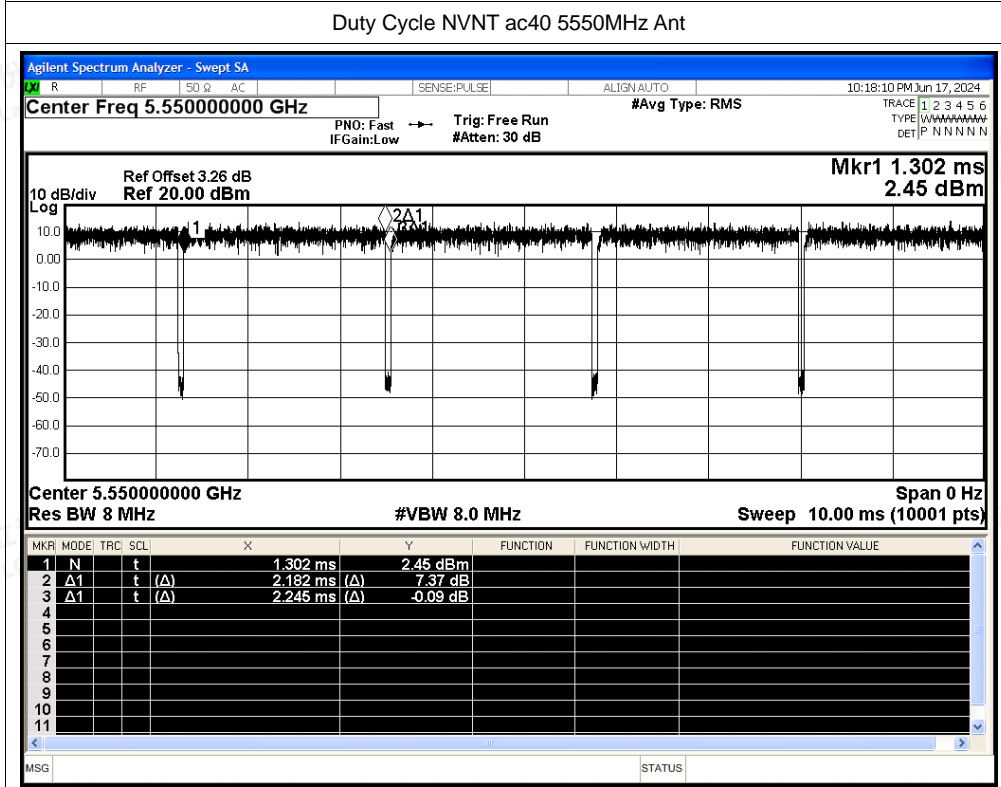
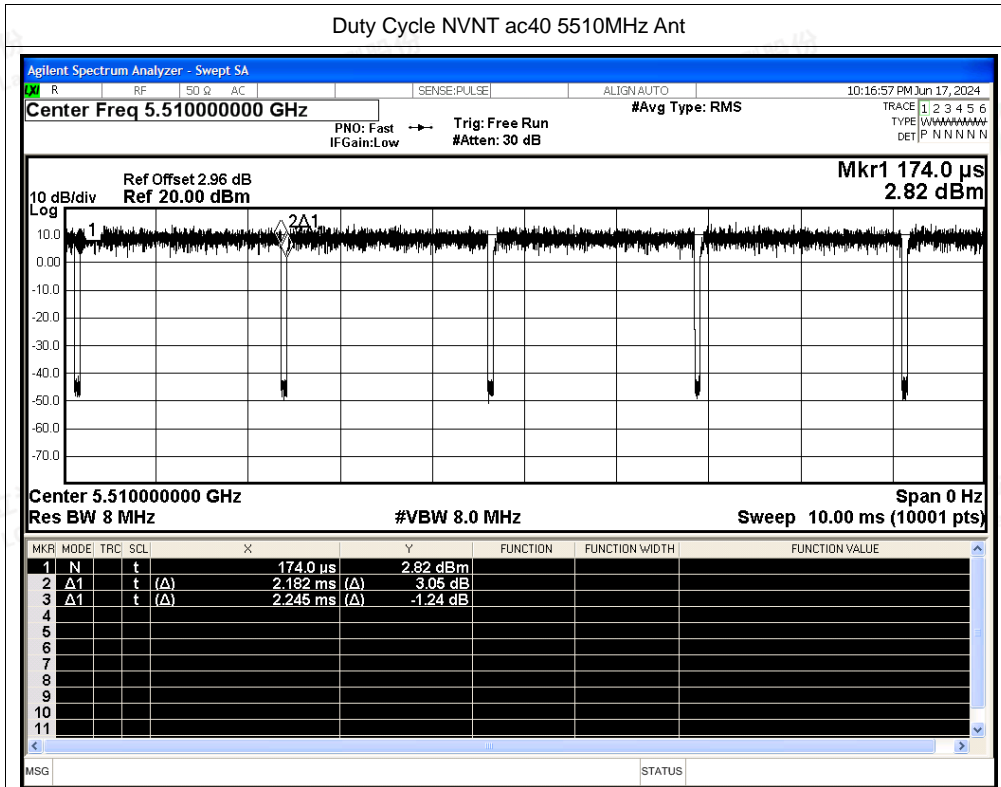


Duty Cycle NVNT ac20 5580MHz Ant



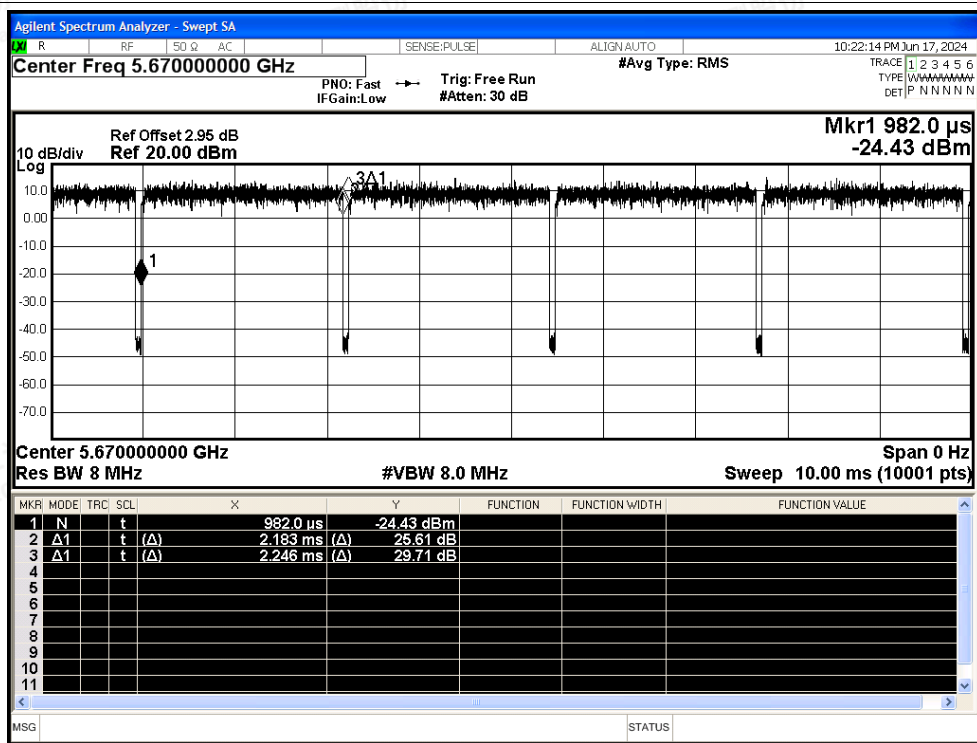
Duty Cycle NVNT ac20 5700MHz Ant







Duty Cycle NVNT ac40 5670MHz Ant



Duty Cycle NVNT ac80 5530MHz Ant

