



Appendix D

RF Test Data for 5.5G WIFI (Conducted Measurement)

Product Name: Wireless USB Adapter

Test Model: OpenScope CP10

Environmental Conditions

Temperature:	24.1°C
Relative Humidity:	52.6%
ATM Pressure:	100.0 kPa
Test Engineer:	Wunder Wu
Supervised by:	Li Huan





D.1 26dB Bandwidth

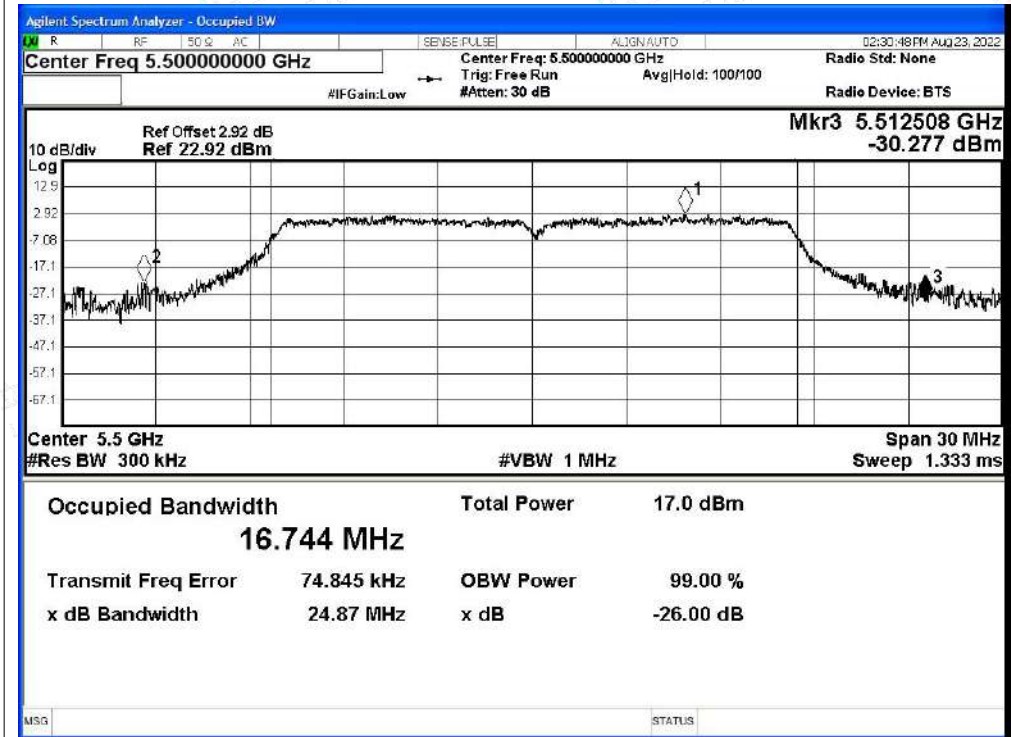
Condition	Mode	Frequency (MHz)	Antenna	26 dB Bandwidth (MHz)	Verdict
NVNT	a	5500	Ant1	24.867	Pass
NVNT	a	5580	Ant1	24.381	Pass
NVNT	a	5700	Ant1	21.096	Pass
NVNT	n20	5500	Ant1	21.544	Pass
NVNT	n20	5580	Ant1	25.996	Pass
NVNT	n20	5700	Ant1	21.828	Pass
NVNT	n40	5510	Ant1	41.311	Pass
NVNT	n40	5550	Ant1	41.201	Pass
NVNT	n40	5670	Ant1	41.21	Pass
NVNT	ac20	5500	Ant1	21.627	Pass
NVNT	ac20	5580	Ant1	22.686	Pass
NVNT	ac20	5700	Ant1	21.526	Pass
NVNT	ac40	5510	Ant1	41.288	Pass
NVNT	ac40	5550	Ant1	41.304	Pass
NVNT	ac40	5670	Ant1	41.503	Pass
NVNT	ac80	5530	Ant1	83.85	Pass
NVNT	ac80	5610	Ant1	86.519	Pass



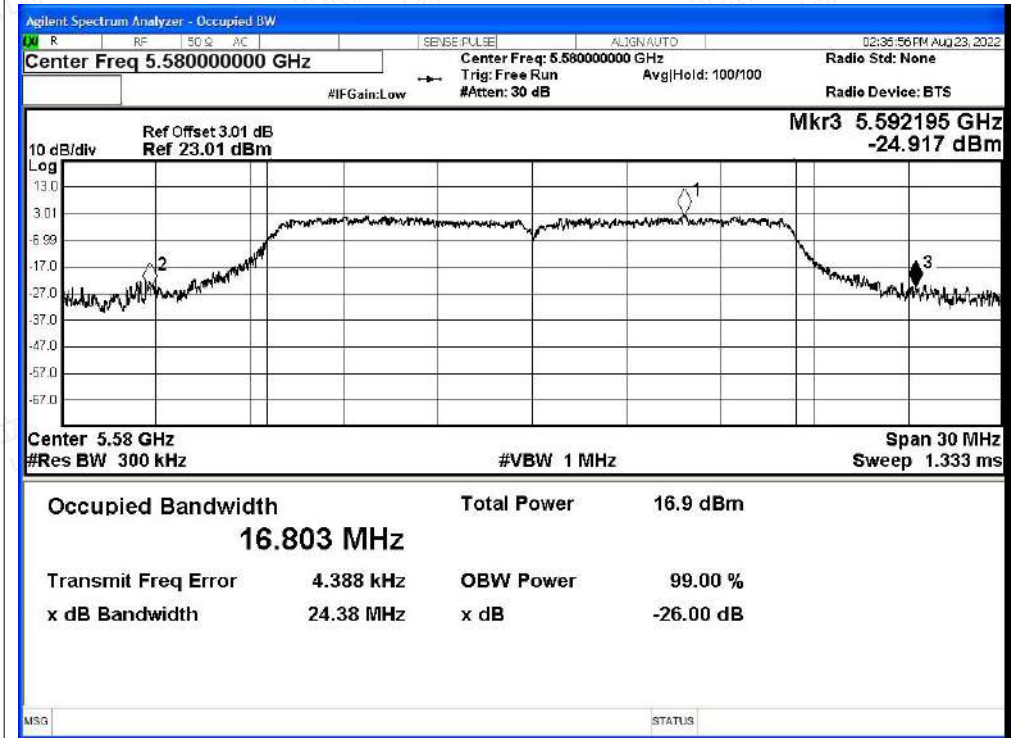


Test Graphs

26dB Bandwidth NVNT a 5500MHz Ant1

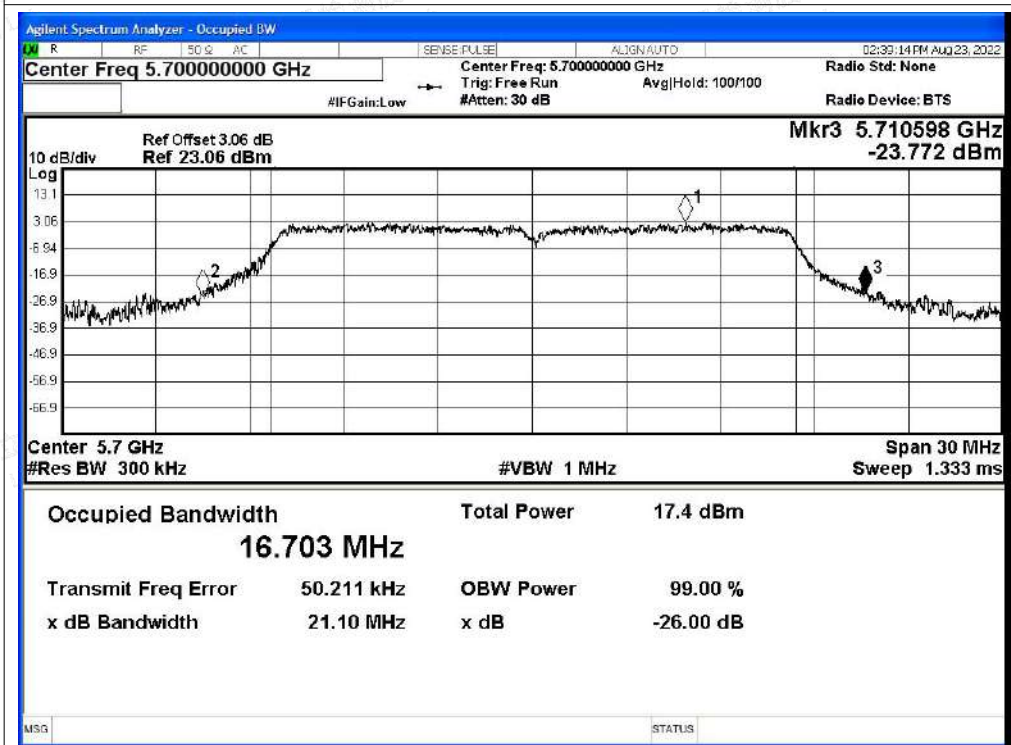


26dB Bandwidth NVNT a 5580MHz Ant1

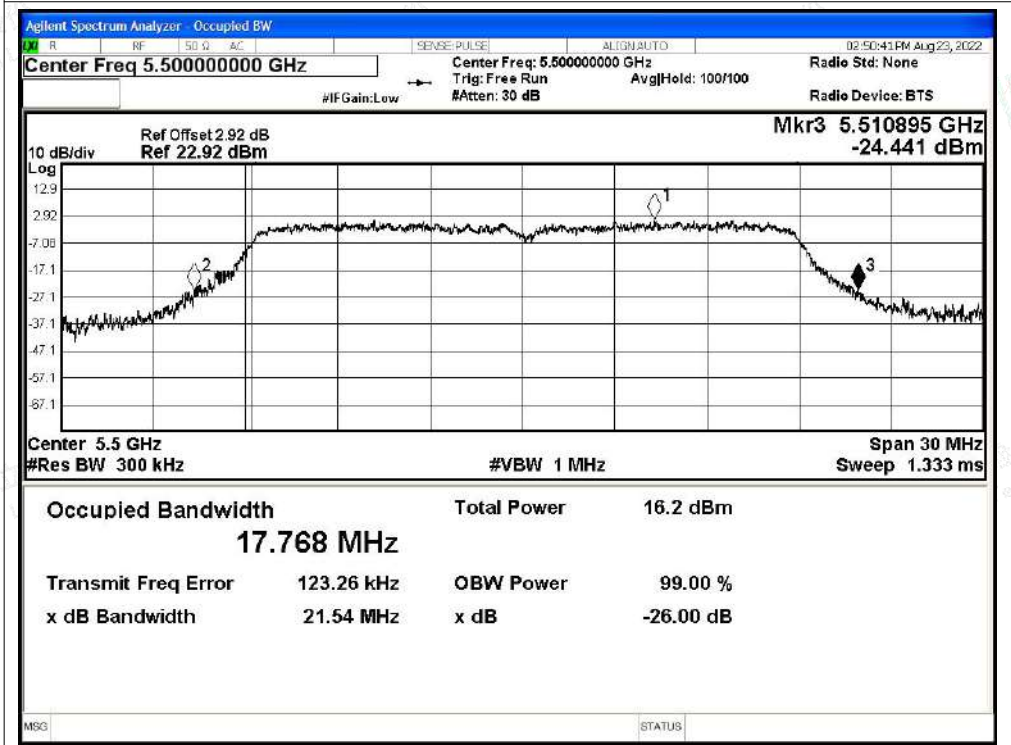




26dB Bandwidth NVNT a 5700MHz Ant1

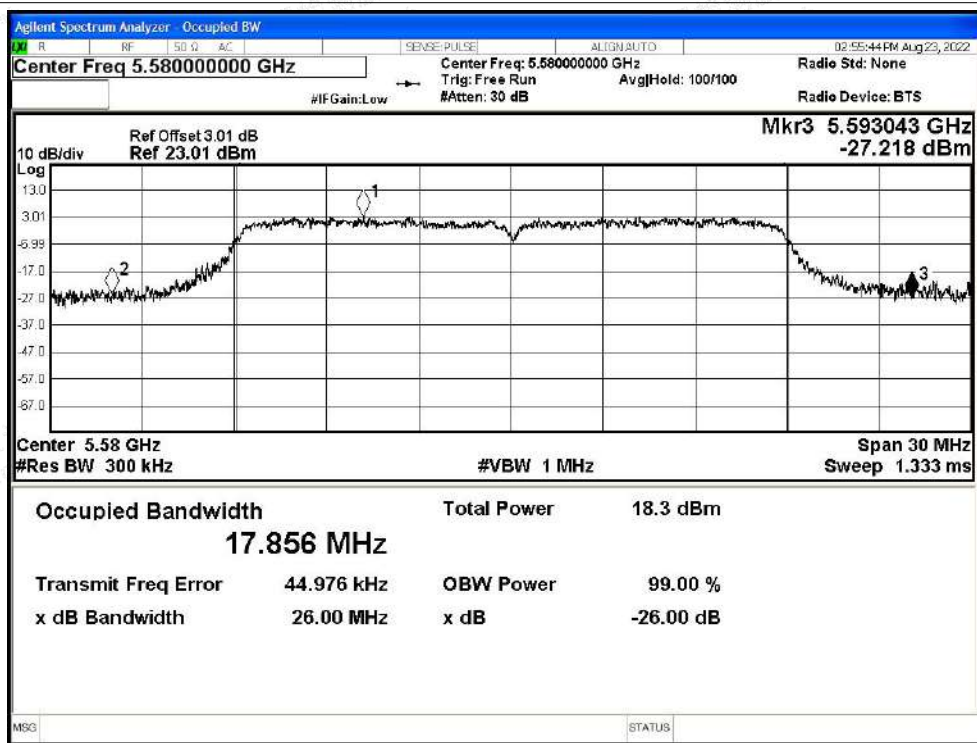


26dB Bandwidth NVNT n20 5500MHz Ant1





26dB Bandwidth NVNT n20 5580MHz Ant1

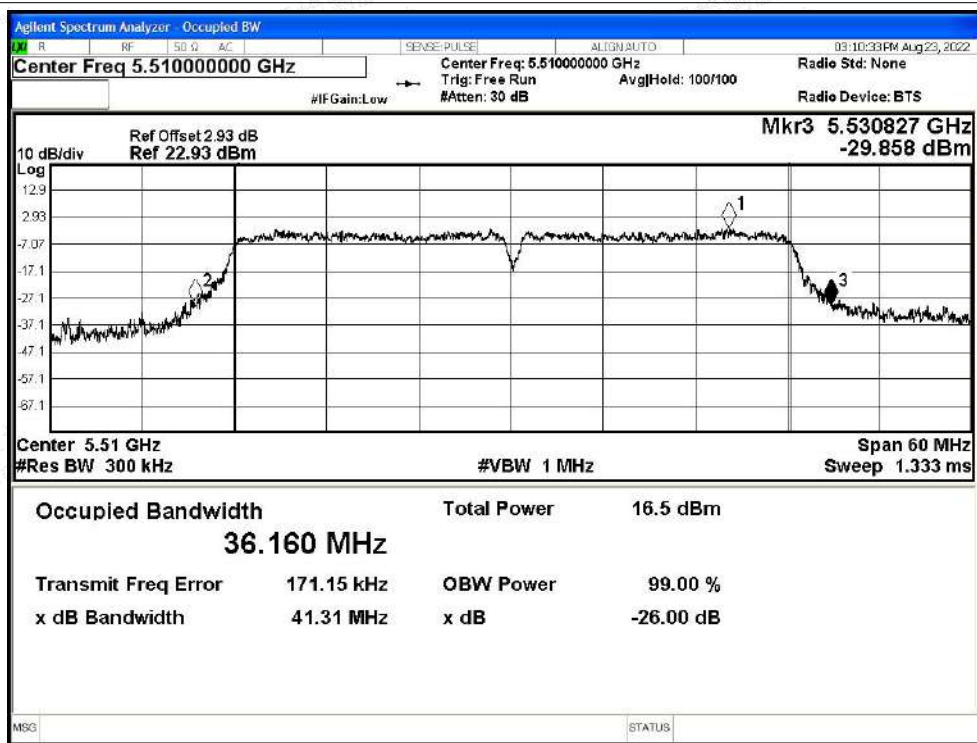


26dB Bandwidth NVNT n20 5700MHz Ant1

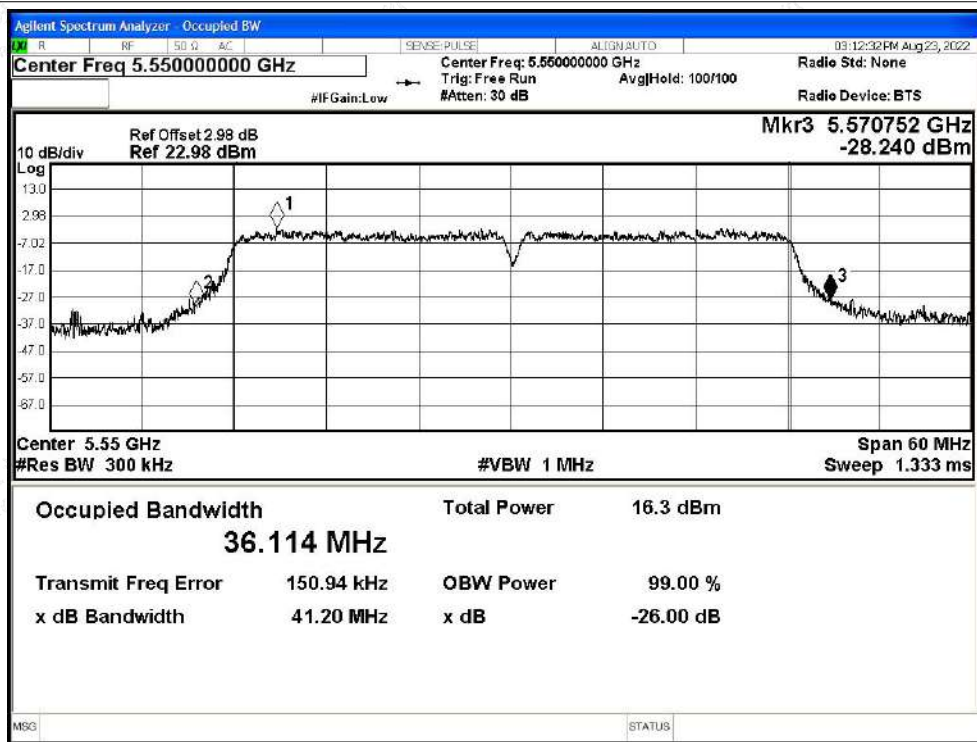




26dB Bandwidth NVNT n40 5510MHz Ant1



26dB Bandwidth NVNT n40 5550MHz Ant1





26dB Bandwidth NVNT n40 5670MHz Ant1

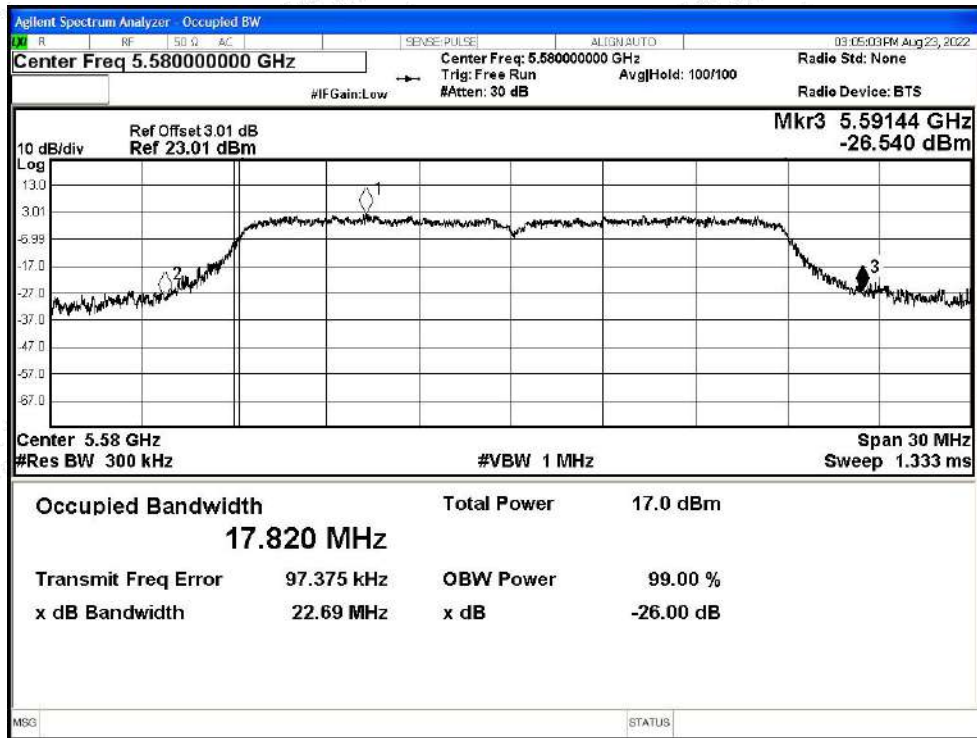


26dB Bandwidth NVNT ac20 5500MHz Ant1

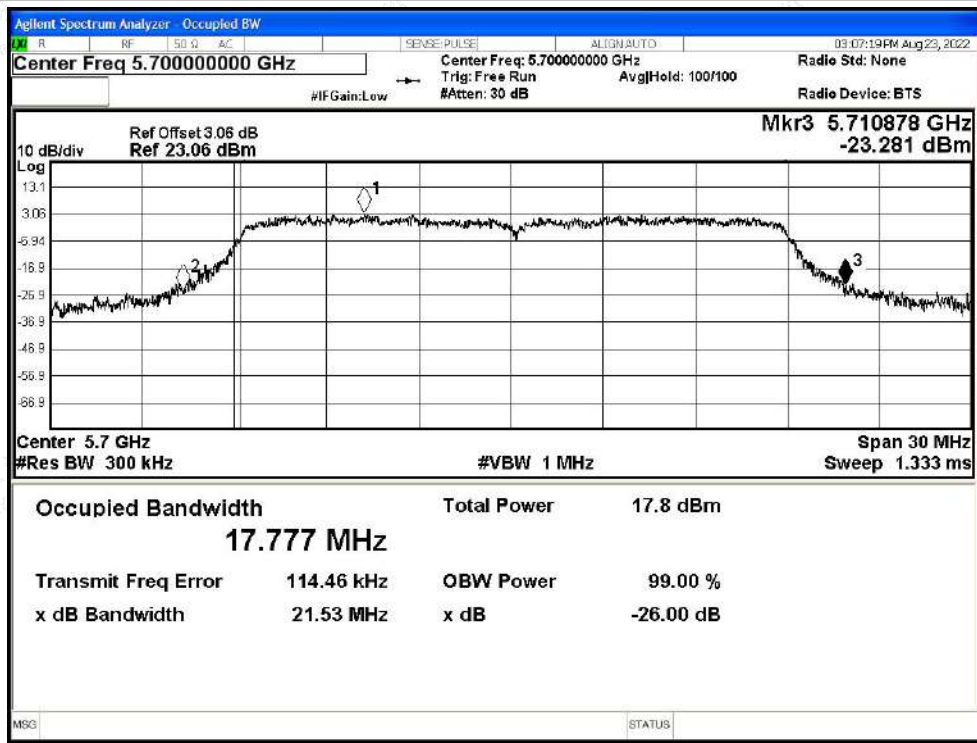




26dB Bandwidth NVNT ac20 5580MHz Ant1

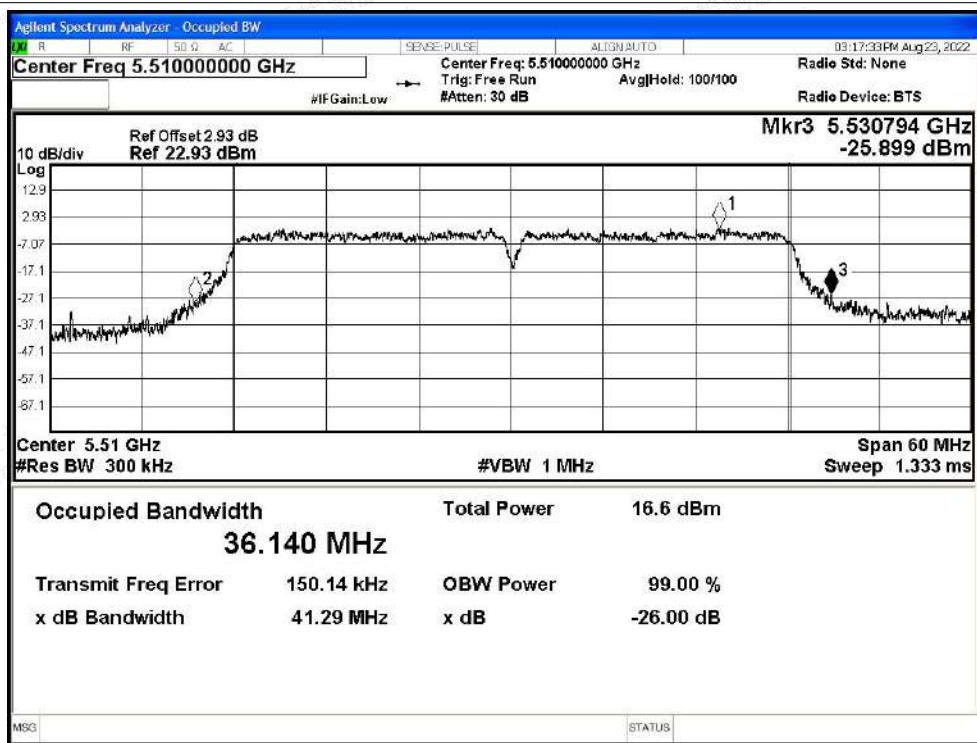


26dB Bandwidth NVNT ac20 5700MHz Ant1





26dB Bandwidth NVNT ac40 5510MHz Ant1

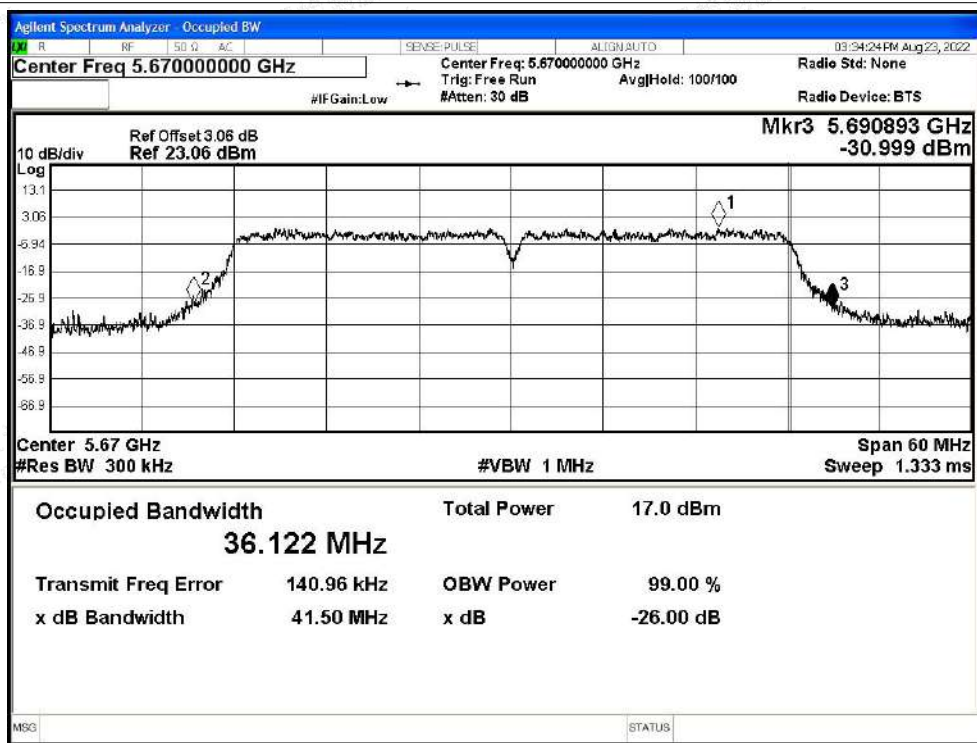


26dB Bandwidth NVNT ac40 5550MHz Ant1



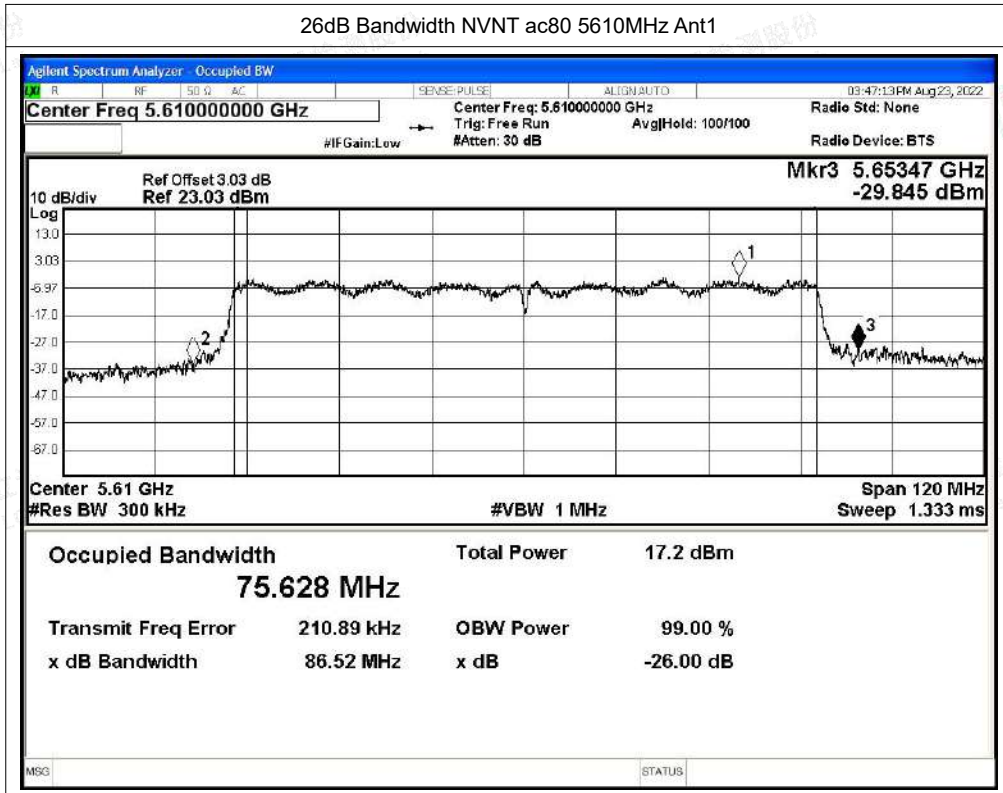


26dB Bandwidth NVNT ac40 5670MHz Ant1



26dB Bandwidth NVNT ac80 5530MHz Ant1







D.2 Occupied Channel Bandwidth

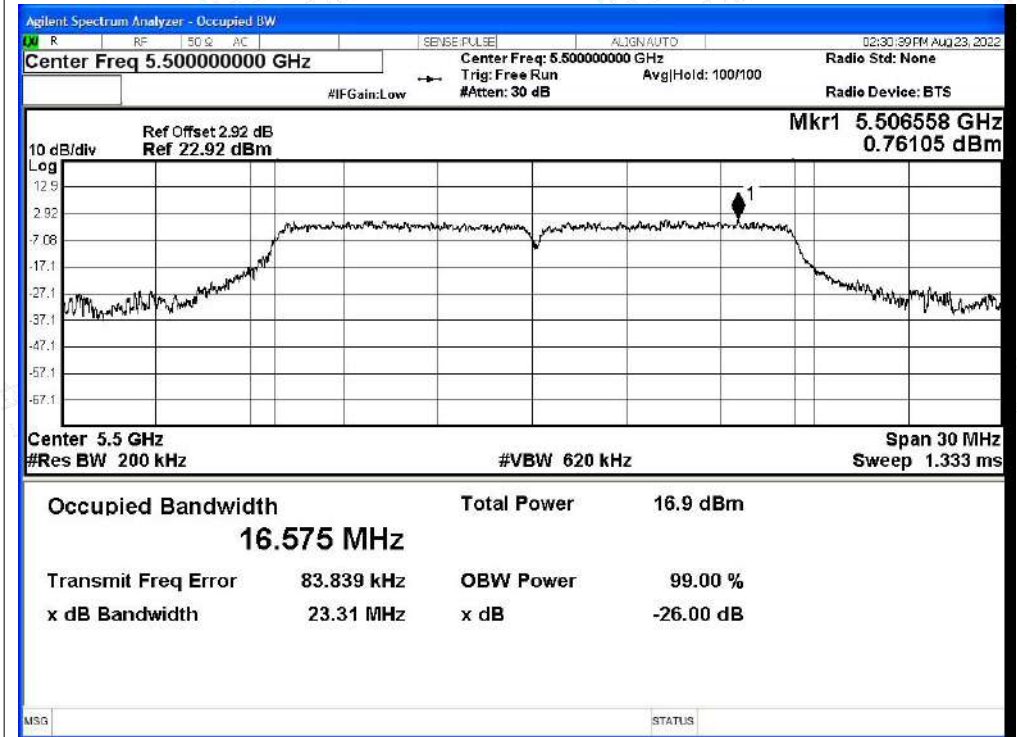
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5500	Ant1	16.575
NVNT	a	5580	Ant1	16.627
NVNT	a	5700	Ant1	16.578
NVNT	n20	5500	Ant1	17.667
NVNT	n20	5580	Ant1	17.763
NVNT	n20	5700	Ant1	17.712
NVNT	n40	5510	Ant1	36.198
NVNT	n40	5550	Ant1	36.203
NVNT	n40	5670	Ant1	36.171
NVNT	ac20	5500	Ant1	17.689
NVNT	ac20	5580	Ant1	17.732
NVNT	ac20	5700	Ant1	17.7
NVNT	ac40	5510	Ant1	36.179
NVNT	ac40	5550	Ant1	36.173
NVNT	ac40	5670	Ant1	36.172
NVNT	ac80	5530	Ant1	75.639
NVNT	ac80	5610	Ant1	75.727





Test Graphs

OBW NVNT a 5500MHz Ant1

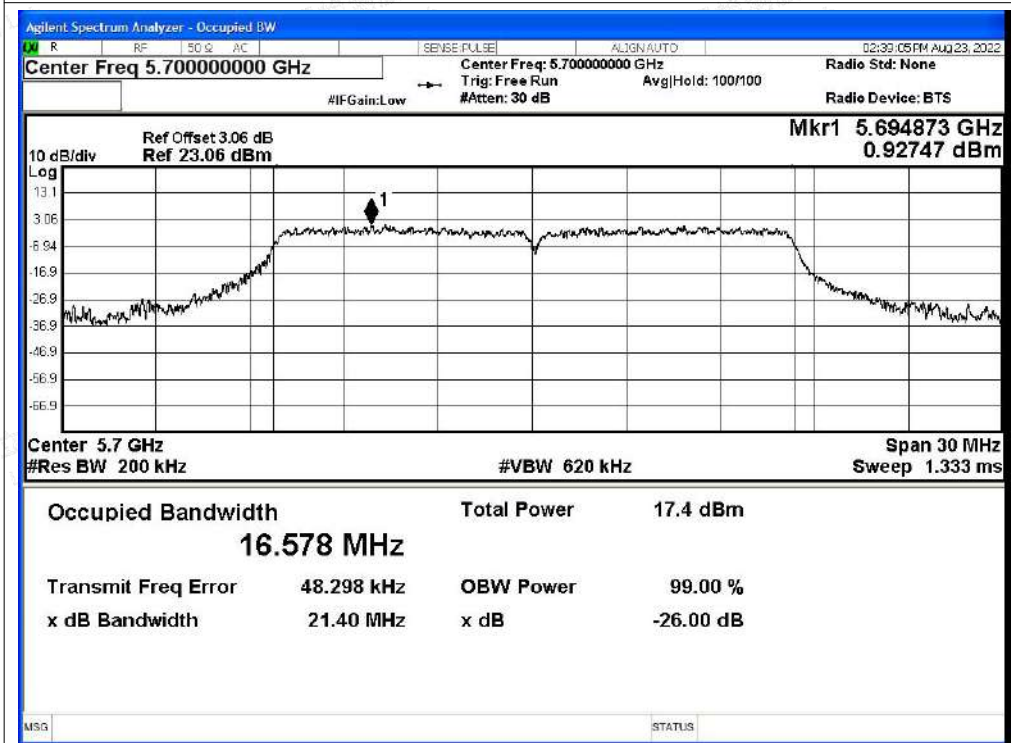


OBW NVNT a 5580MHz Ant1

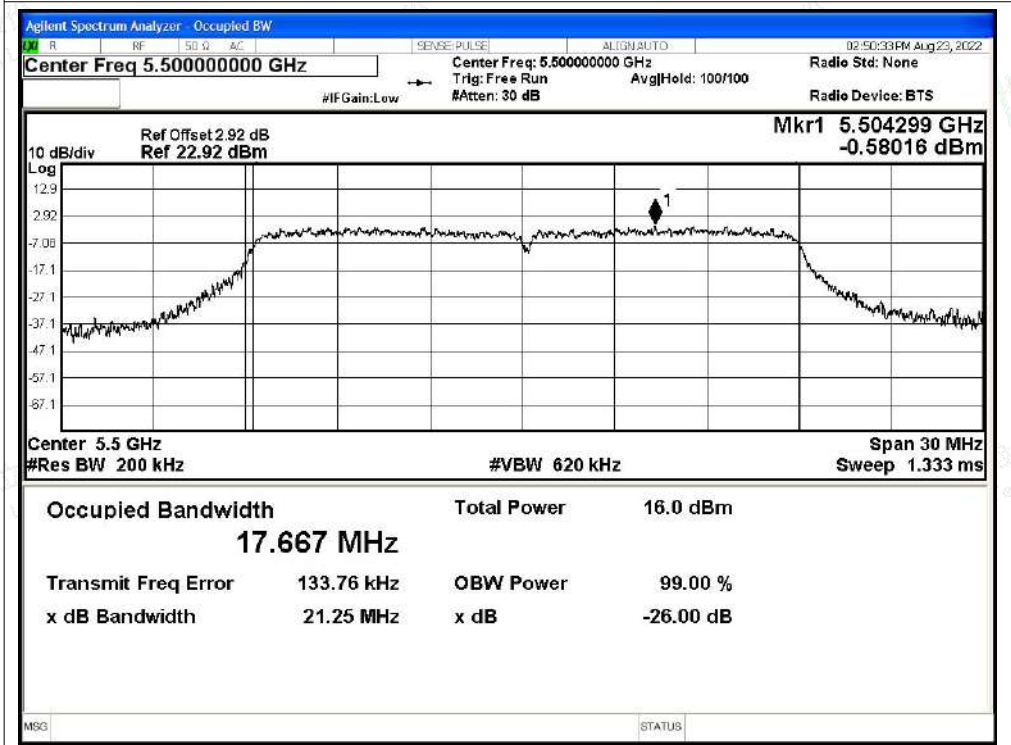


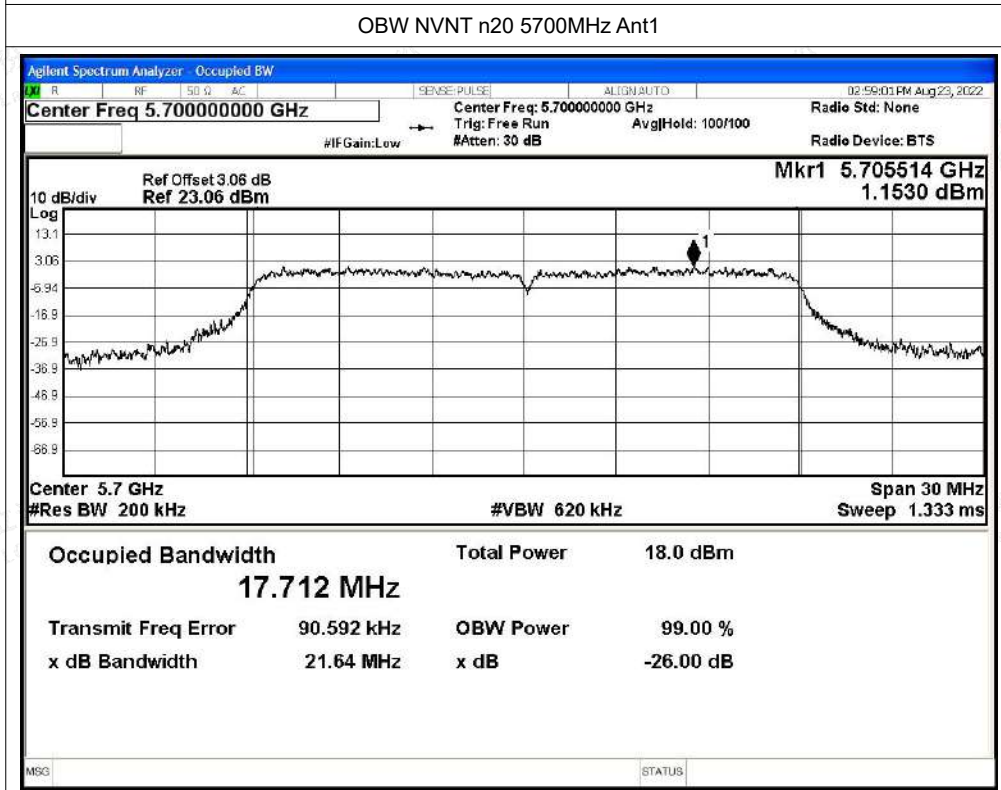
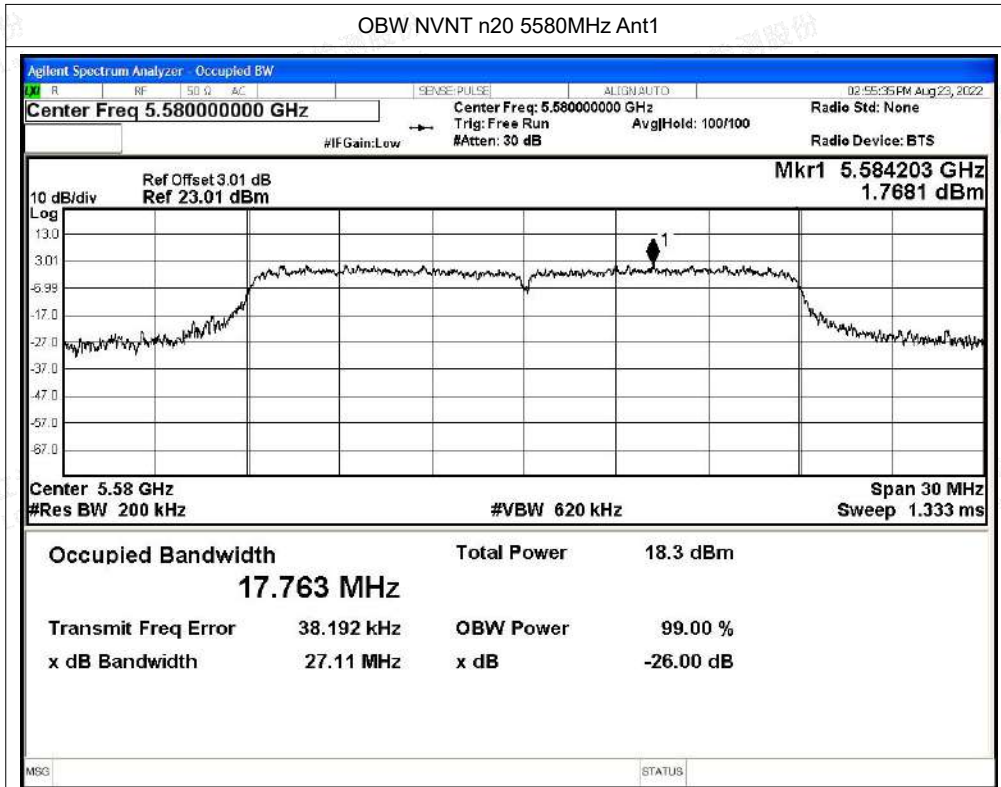


OBW NVNT a 5700MHz Ant1



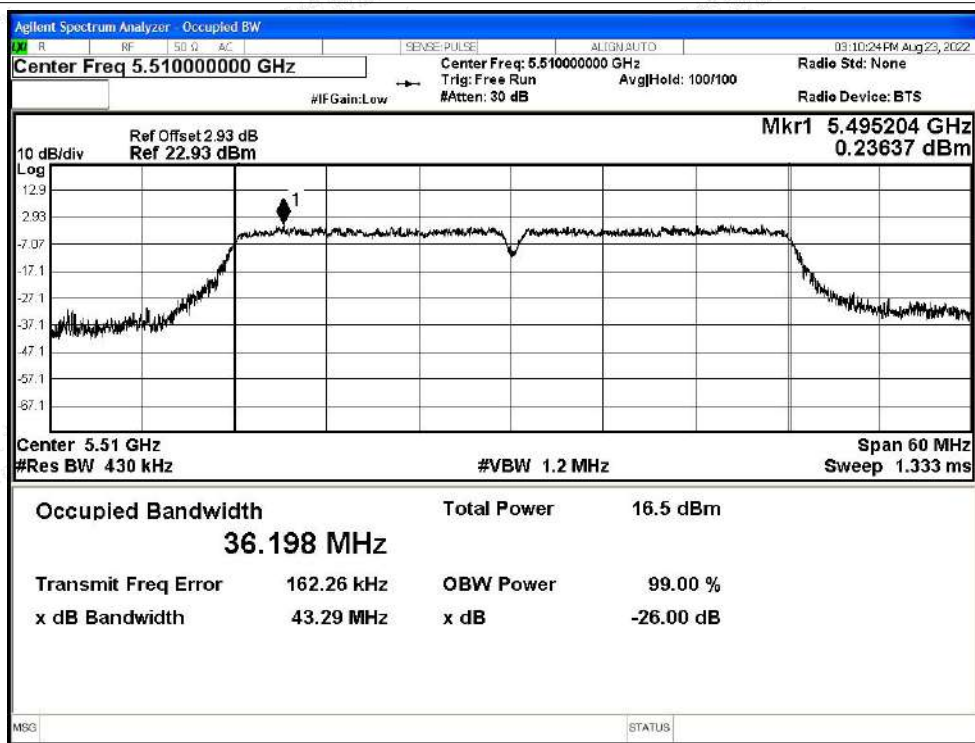
OBW NVNT n20 5500MHz Ant1



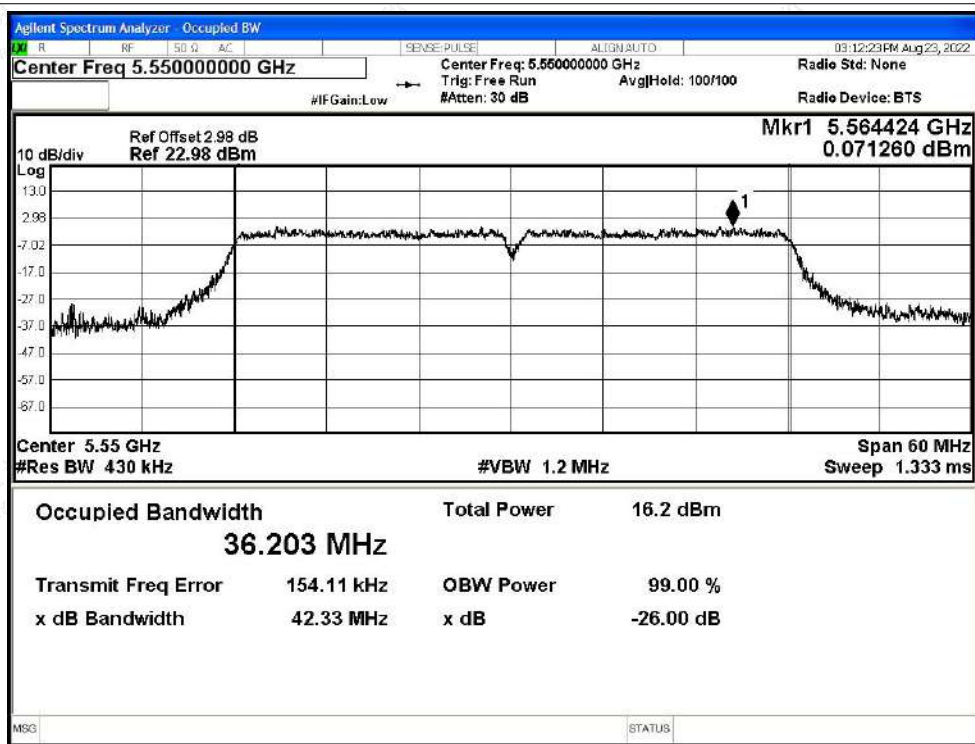




OBW NVNT n40 5510MHz Ant1

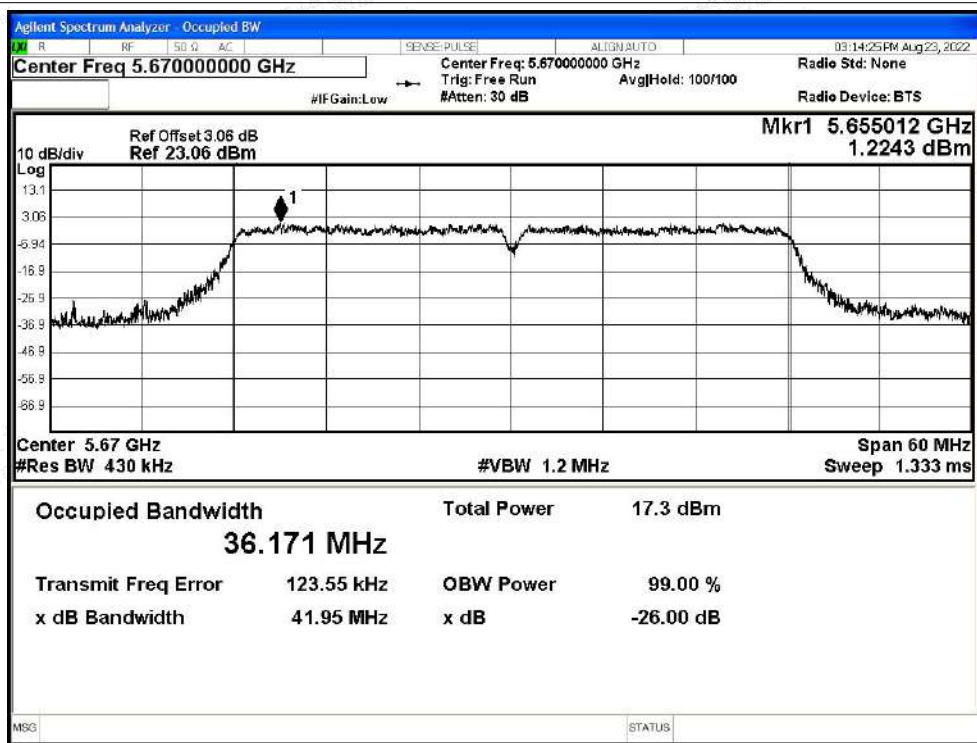


OBW NVNT n40 5550MHz Ant1

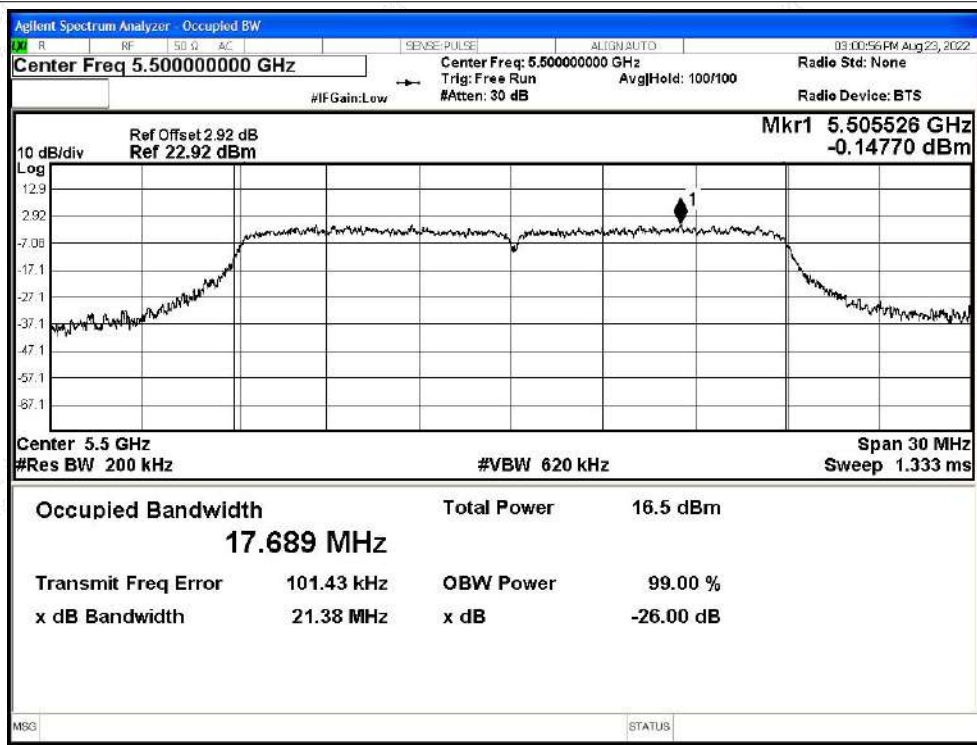




OBW NVNT n40 5670MHz Ant1

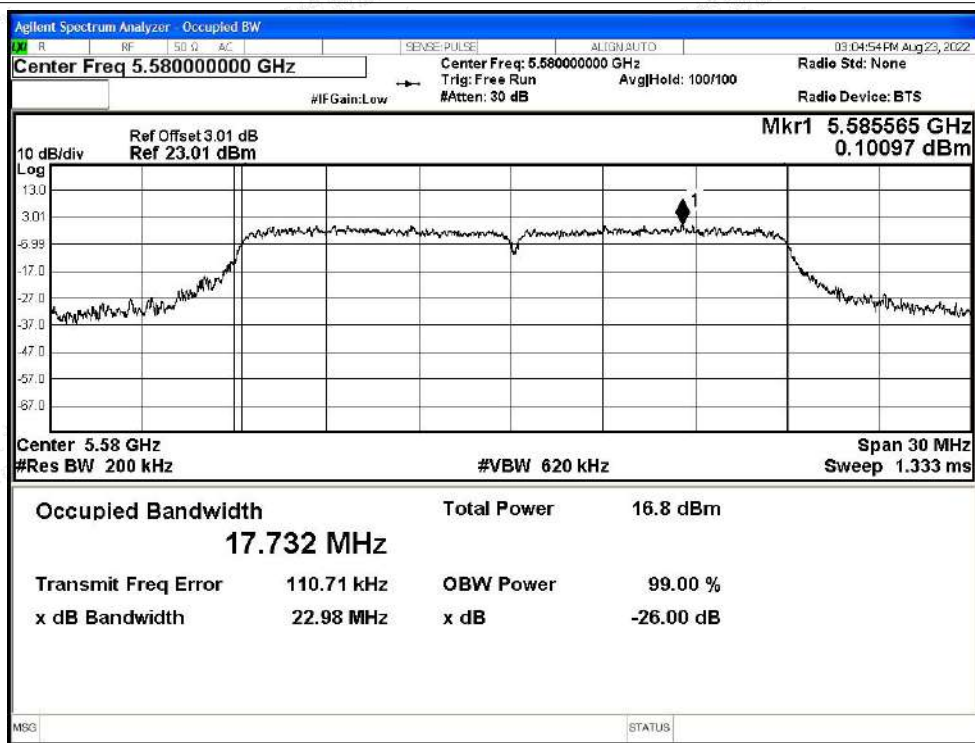


OBW NVNT ac20 5500MHz Ant1

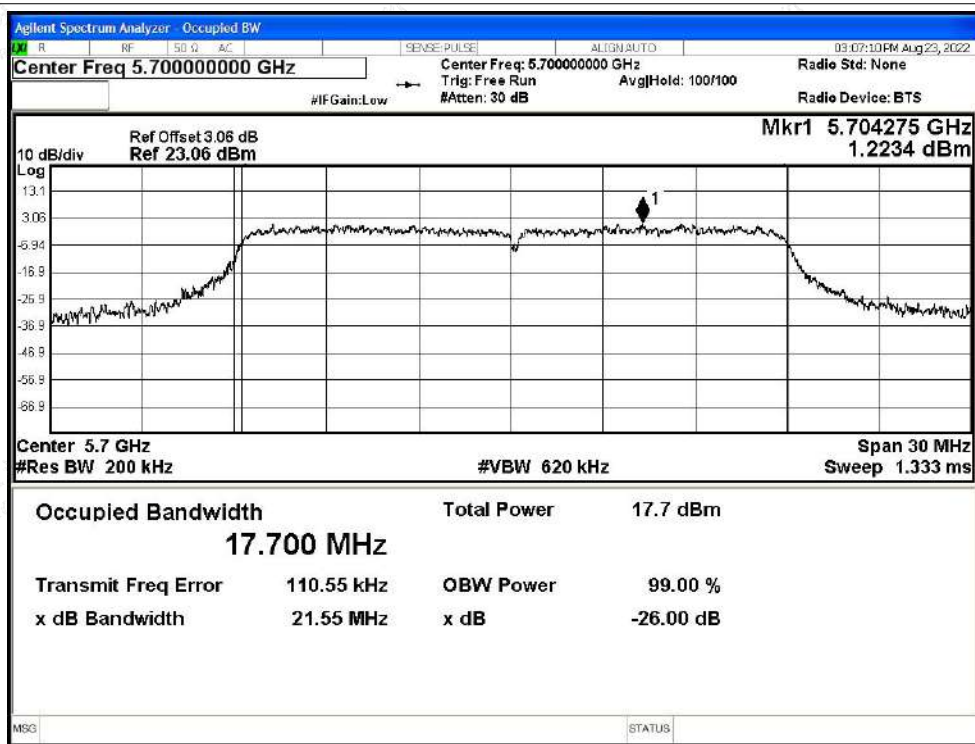




OBW NVNT ac20 5580MHz Ant1

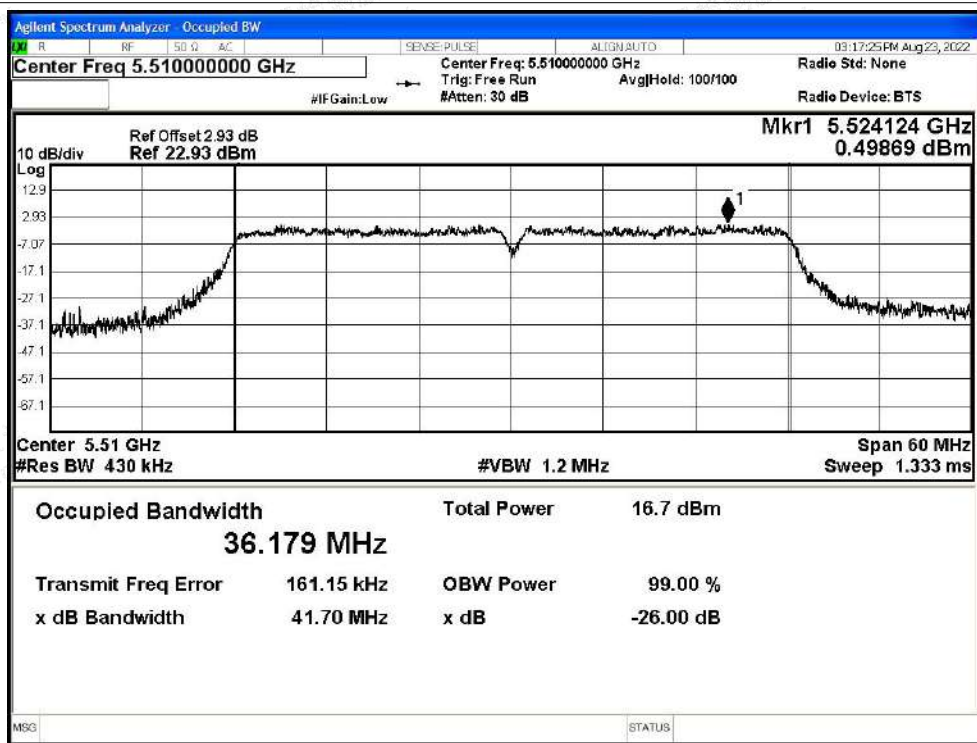


OBW NVNT ac20 5700MHz Ant1

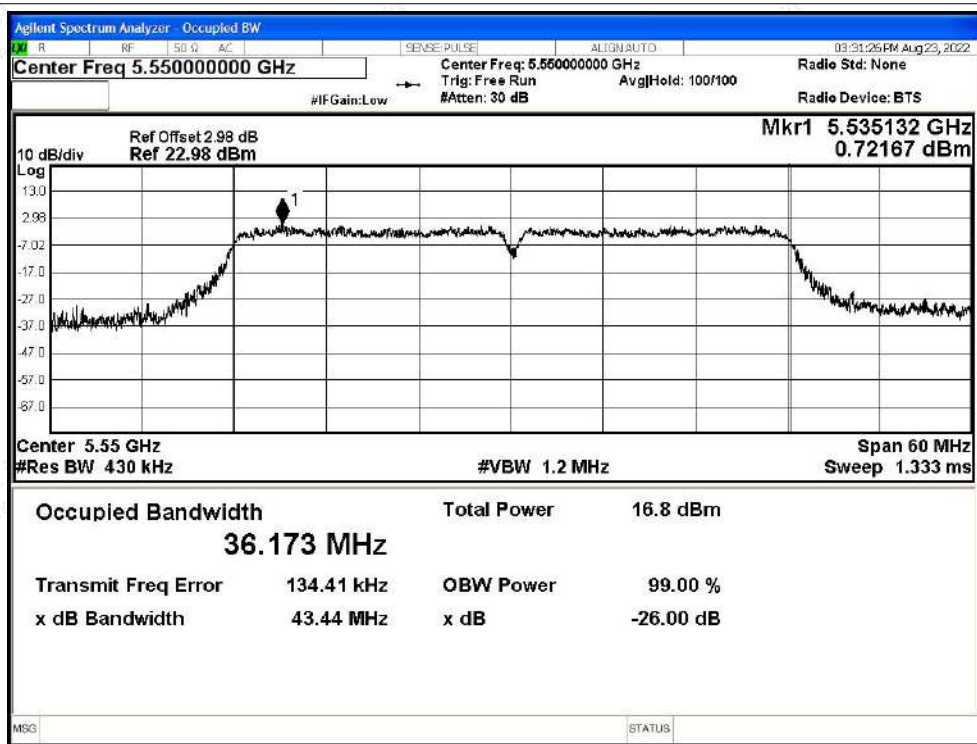




OBW NVNT ac40 5510MHz Ant1

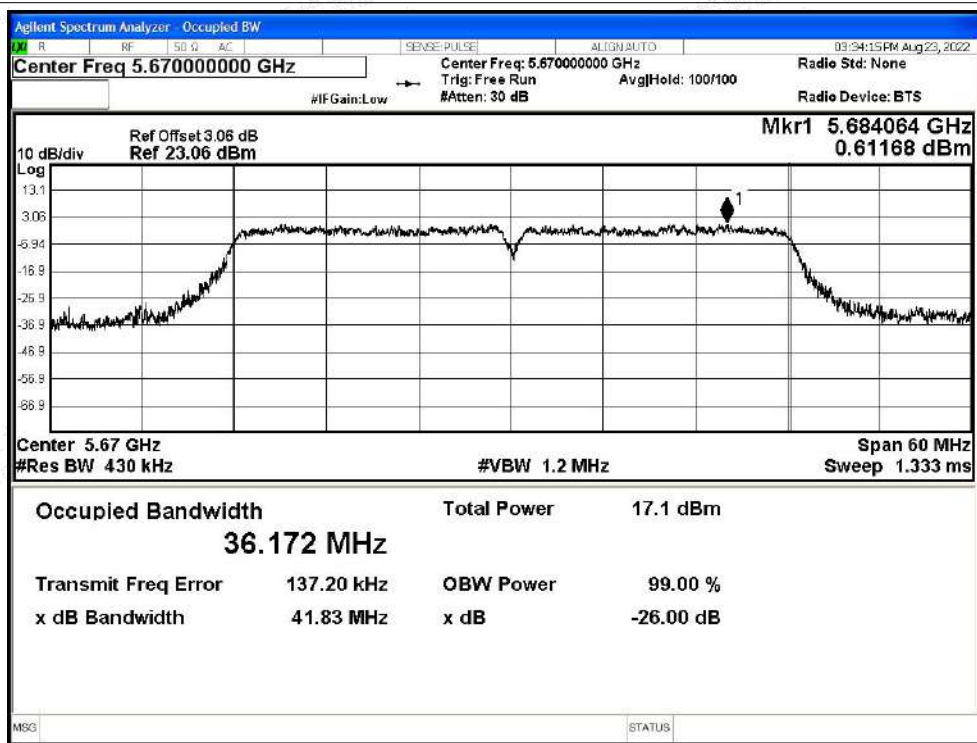


OBW NVNT ac40 5550MHz Ant1

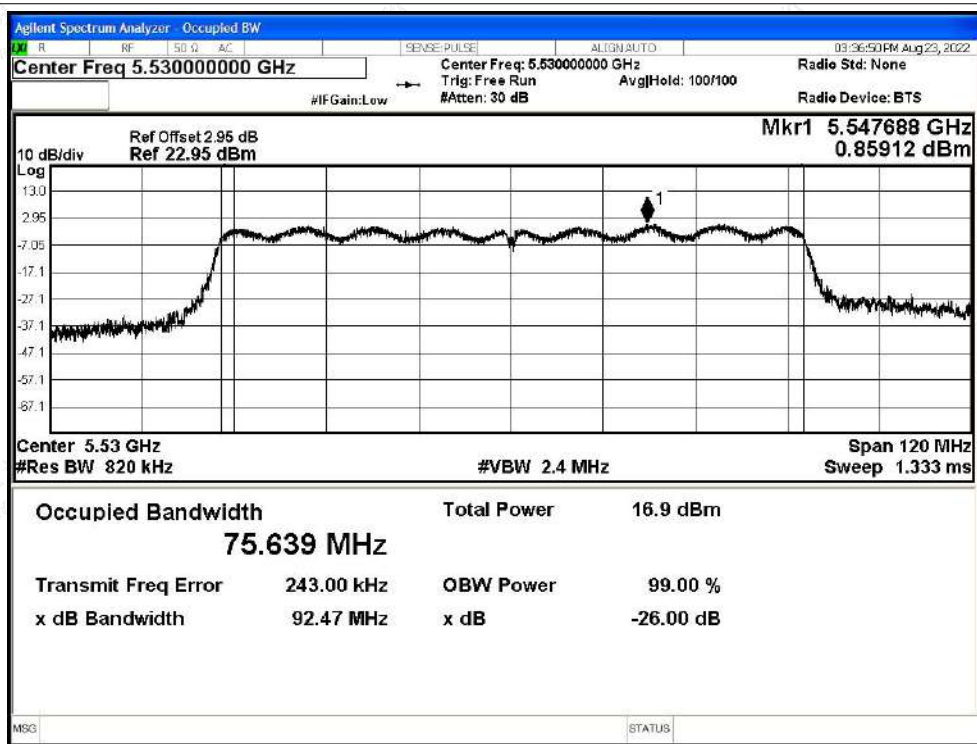


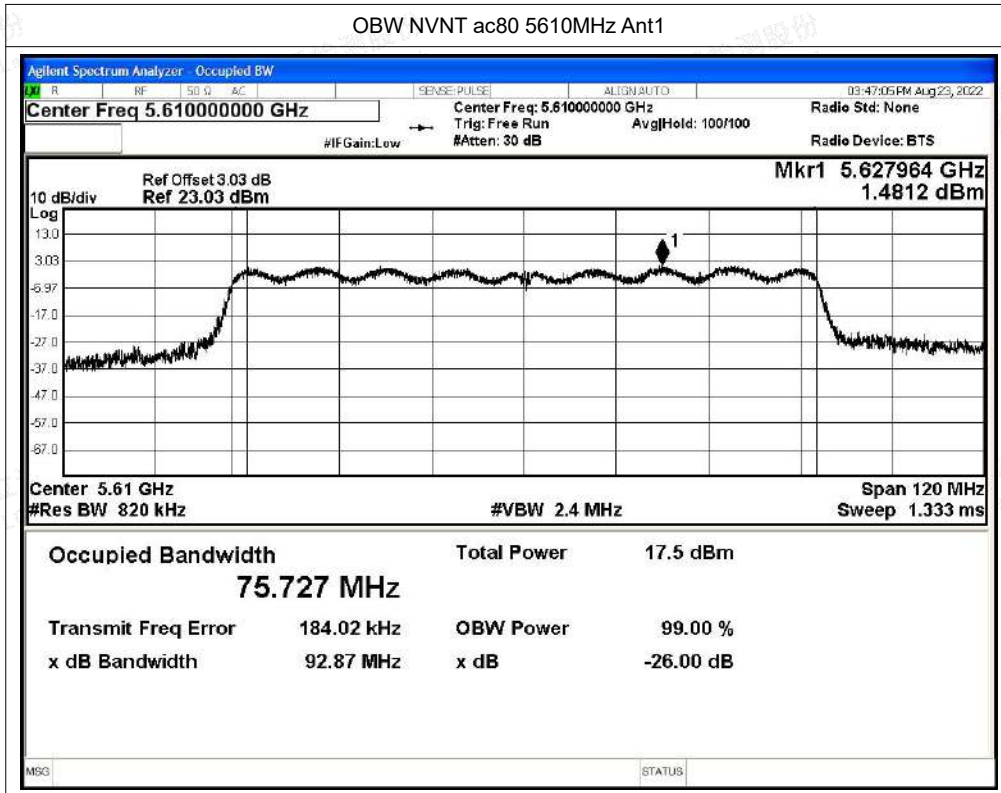


OBW NVNT ac40 5670MHz Ant1



OBW NVNT ac80 5530MHz Ant1







D.3 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Antenna Gain	EIRP Power(dBm)	EIRP Limit (dBm)	Verdict
NVNT	a	5500	Ant1	15.15	24	3.21	18.36	30	Pass
NVNT	a	5580	Ant1	15.44	24	3.21	18.65	30	Pass
NVNT	a	5700	Ant1	15.32	24	3.21	18.53	30	Pass
NVNT	n20	5500	Ant1	15.48	24	3.21	18.69	30	Pass
NVNT	n20	5580	Ant1	15.28	24	3.21	18.49	30	Pass
NVNT	n20	5700	Ant1	15.36	24	3.21	18.57	30	Pass
NVNT	n40	5510	Ant1	15.02	24	3.21	18.23	30	Pass
NVNT	n40	5550	Ant1	15.44	24	3.21	18.65	30	Pass
NVNT	n40	5670	Ant1	15.01	24	3.21	18.22	30	Pass
NVNT	ac20	5500	Ant1	15.24	24	3.21	18.45	30	Pass
NVNT	ac20	5580	Ant1	15.31	24	3.21	18.52	30	Pass
NVNT	ac20	5700	Ant1	15.34	24	3.21	18.55	30	Pass
NVNT	ac40	5510	Ant1	14.96	24	3.21	18.17	30	Pass
NVNT	ac40	5550	Ant1	15.33	24	3.21	18.54	30	Pass
NVNT	ac40	5670	Ant1	15.21	24	3.21	18.42	30	Pass
NVNT	ac80	5530	Ant1	15.44	24	3.21	18.65	30	Pass
NVNT	ac80	5610	Ant1	15.65	24	3.21	18.86	30	Pass





D.4 Maximum Power Spectral Density Level

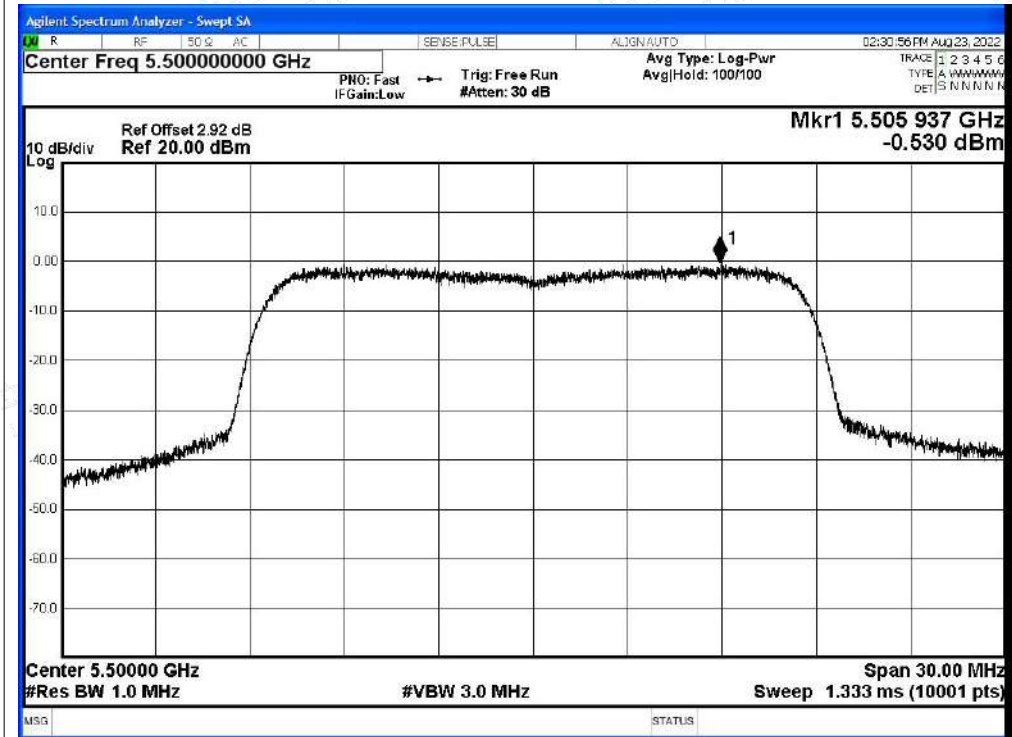
Condition	Mode	Frequency (MHz)	Antenna	Total PSD (dBm)	Antenna Gain	EIRP PSD(dBm)	Limit (dBm)	Verdict
NVNT	a	5500	Ant1	-0.53	3.21	2.68	11	Pass
NVNT	a	5580	Ant1	-0.78	3.21	2.43	11	Pass
NVNT	a	5700	Ant1	-0.56	3.21	2.65	11	Pass
NVNT	n20	5500	Ant1	-1.8	3.21	1.41	11	Pass
NVNT	n20	5580	Ant1	0	3.21	3.21	11	Pass
NVNT	n20	5700	Ant1	-0.16	3.21	3.05	11	Pass
NVNT	n40	5510	Ant1	-4.8	3.21	-1.59	11	Pass
NVNT	n40	5550	Ant1	-4.85	3.21	-1.64	11	Pass
NVNT	n40	5670	Ant1	-3.96	3.21	-0.75	11	Pass
NVNT	ac20	5500	Ant1	-1.34	3.21	1.87	11	Pass
NVNT	ac20	5580	Ant1	-0.89	3.21	2.32	11	Pass
NVNT	ac20	5700	Ant1	0.1	3.21	3.31	11	Pass
NVNT	ac40	5510	Ant1	-4.09	3.21	-0.88	11	Pass
NVNT	ac40	5550	Ant1	-4.24	3.21	-1.03	11	Pass
NVNT	ac40	5670	Ant1	-4.15	3.21	-0.94	11	Pass
NVNT	ac80	5530	Ant1	-6.94	3.21	-3.73	11	Pass
NVNT	ac80	5610	Ant1	-6.56	3.21	-3.35	11	Pass



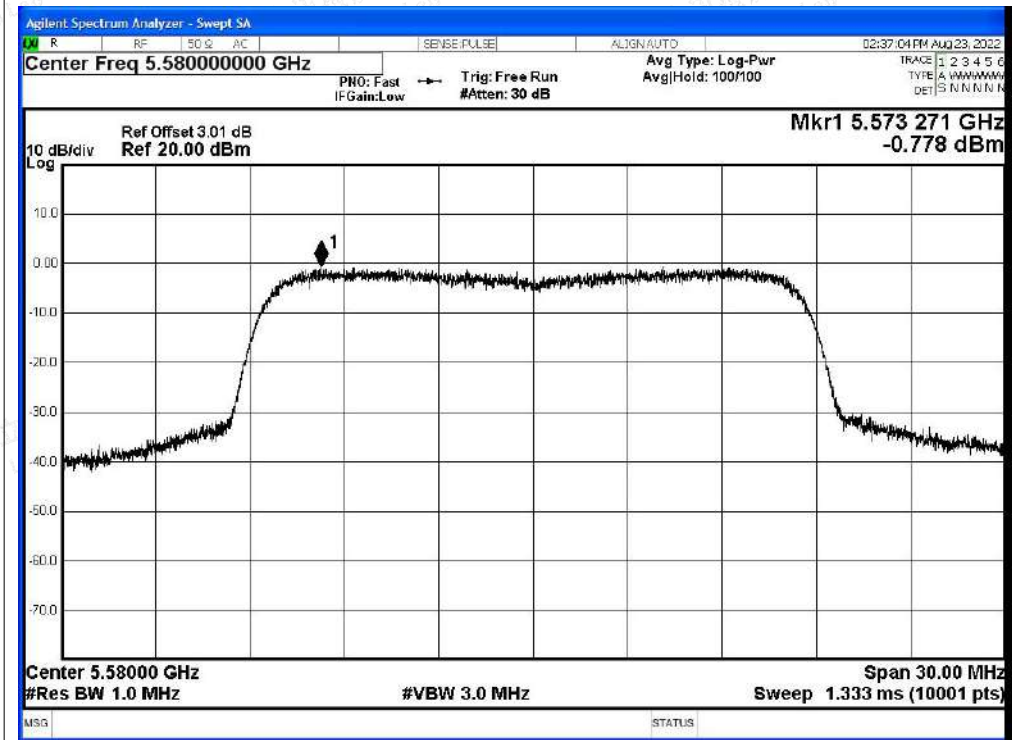


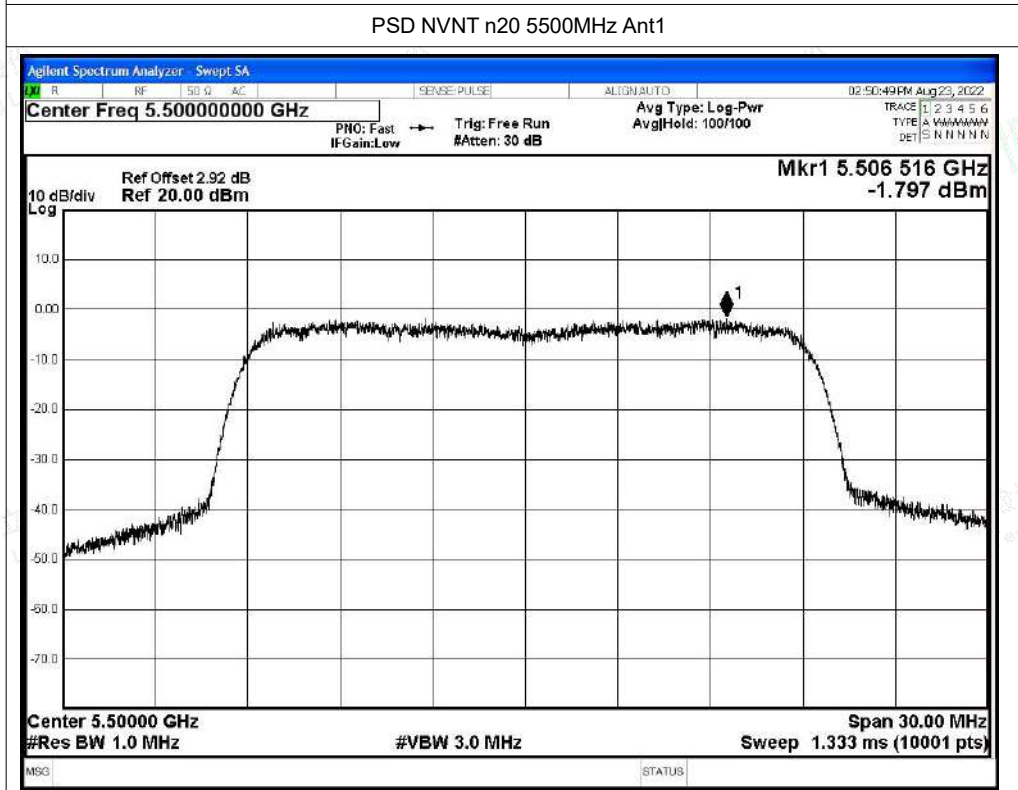
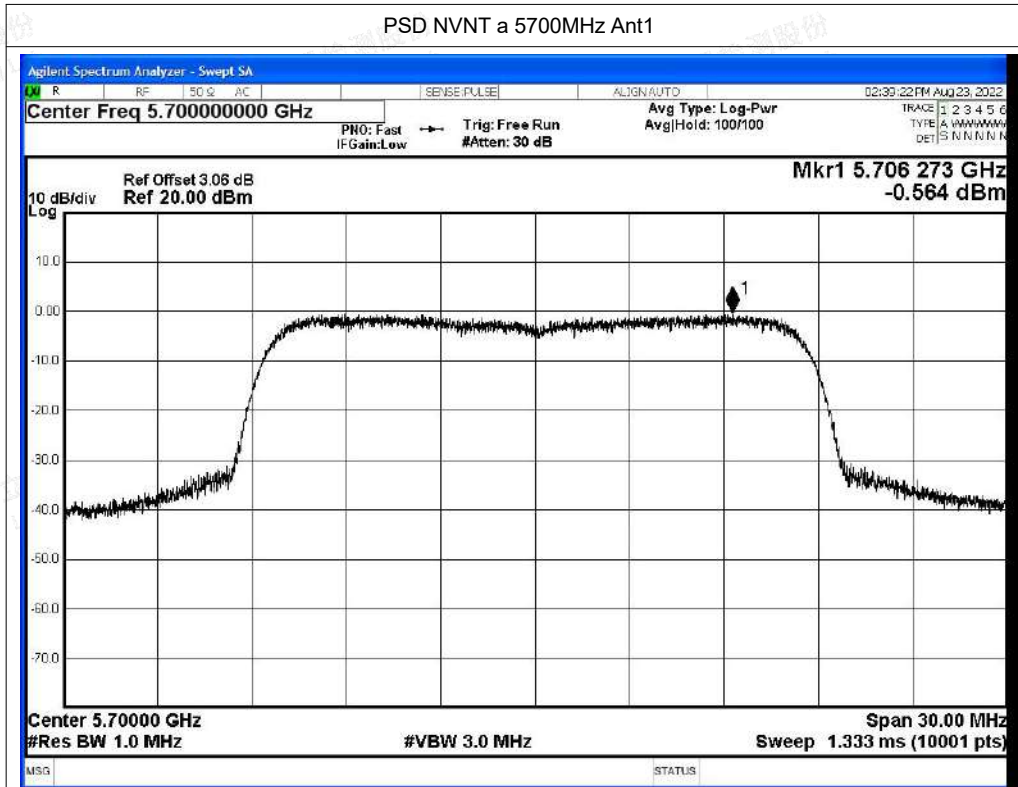
Test Graphs

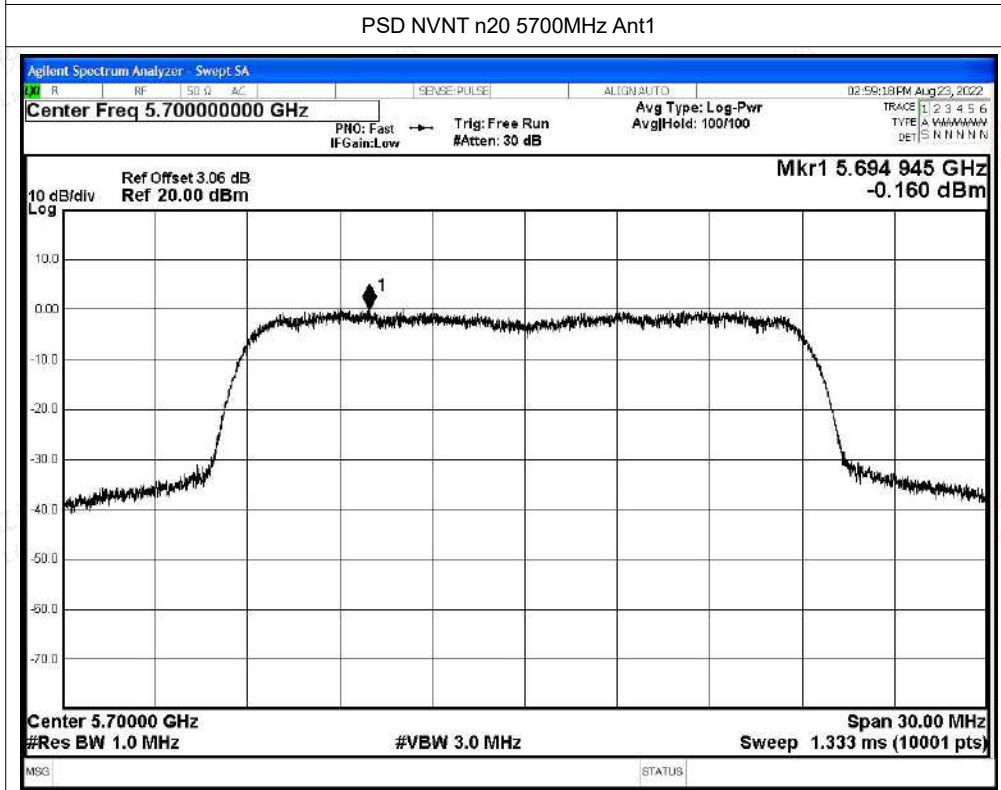
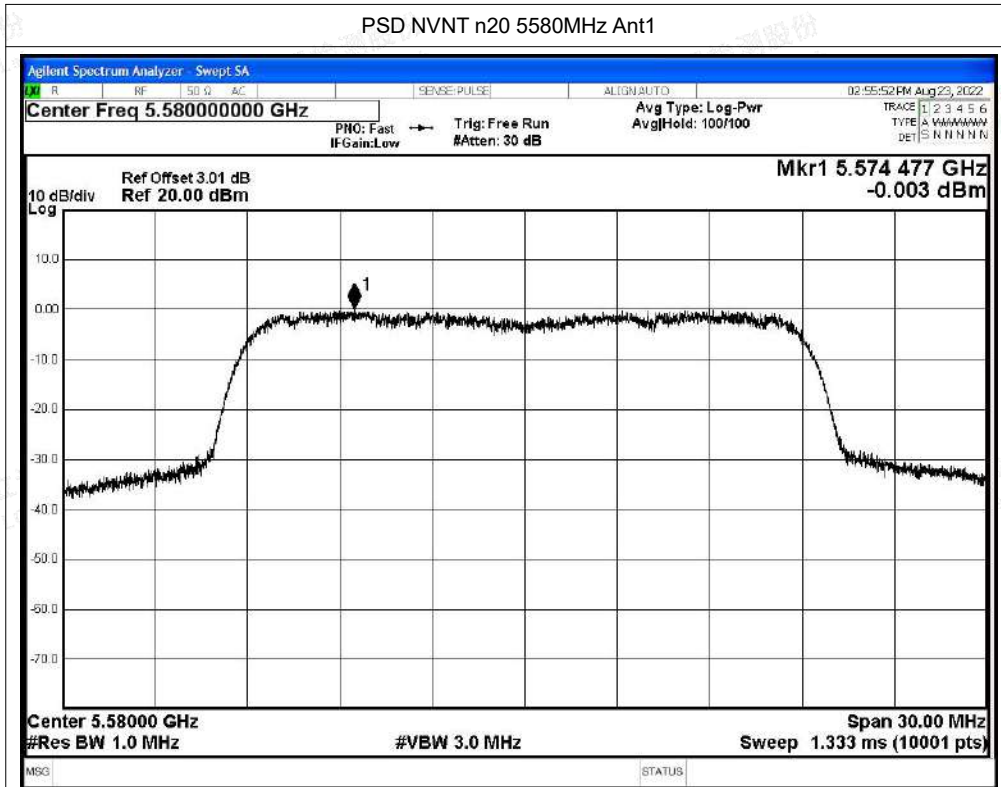
PSD NVNT a 5500MHz Ant1

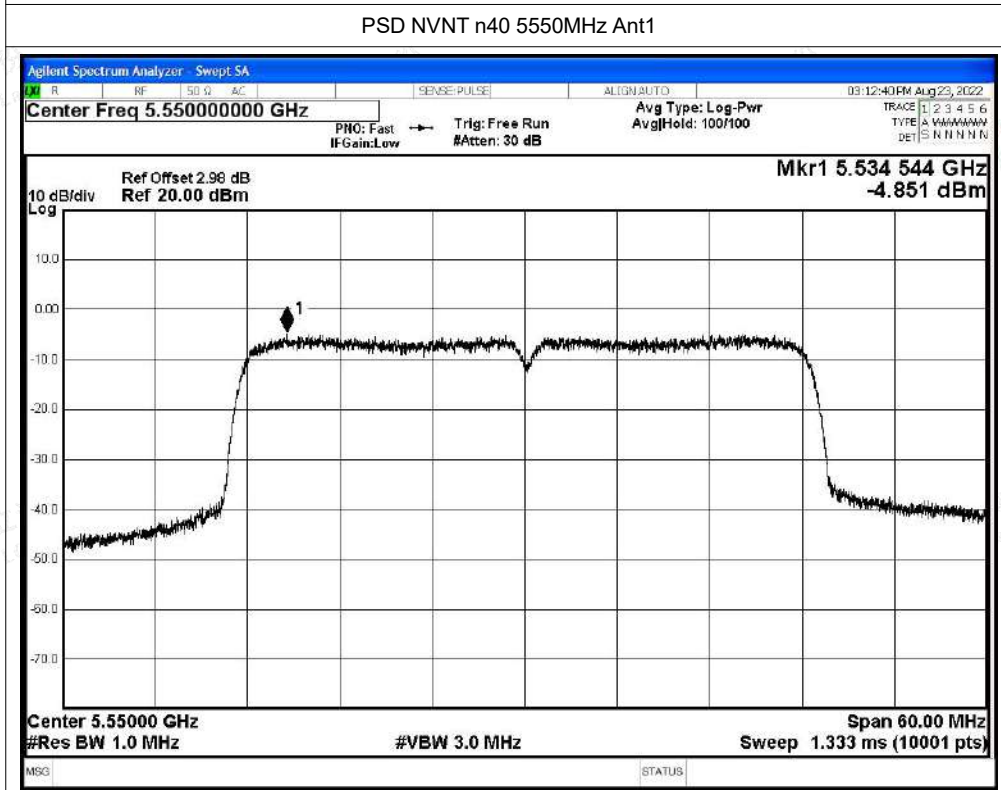
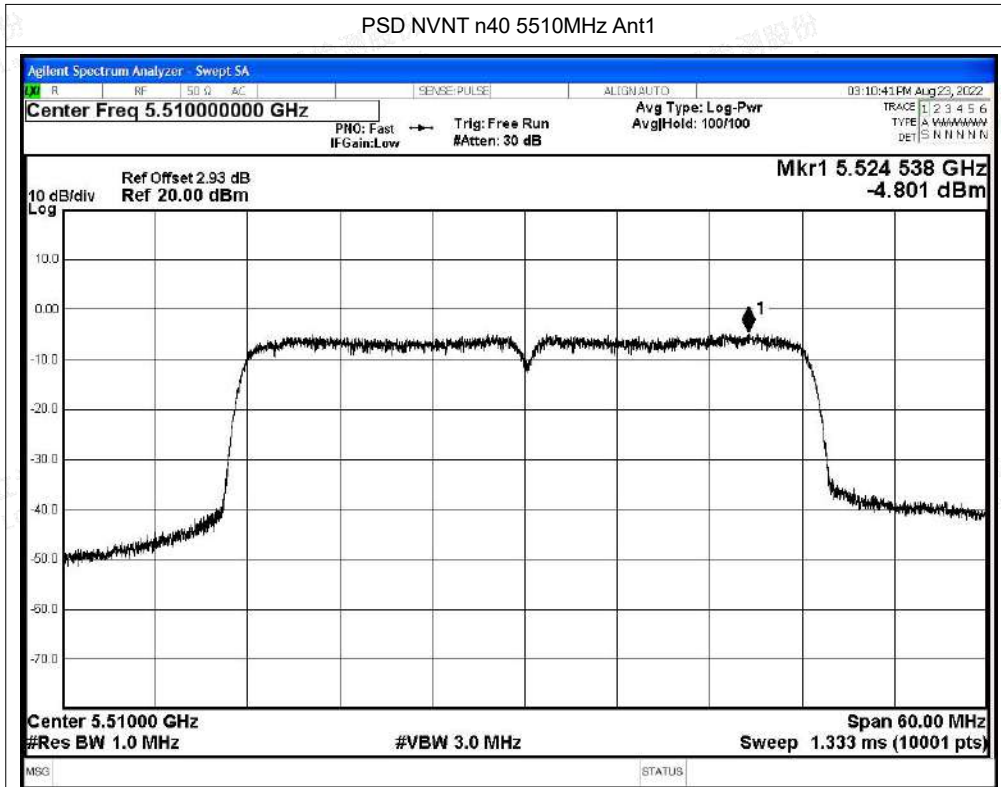


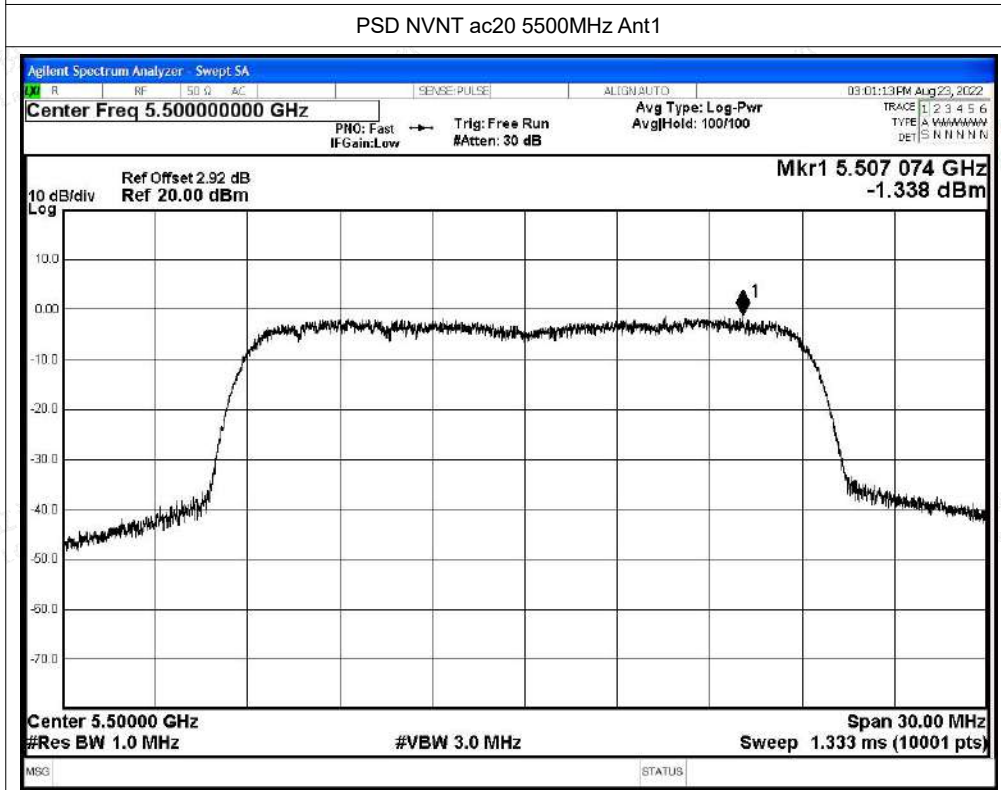
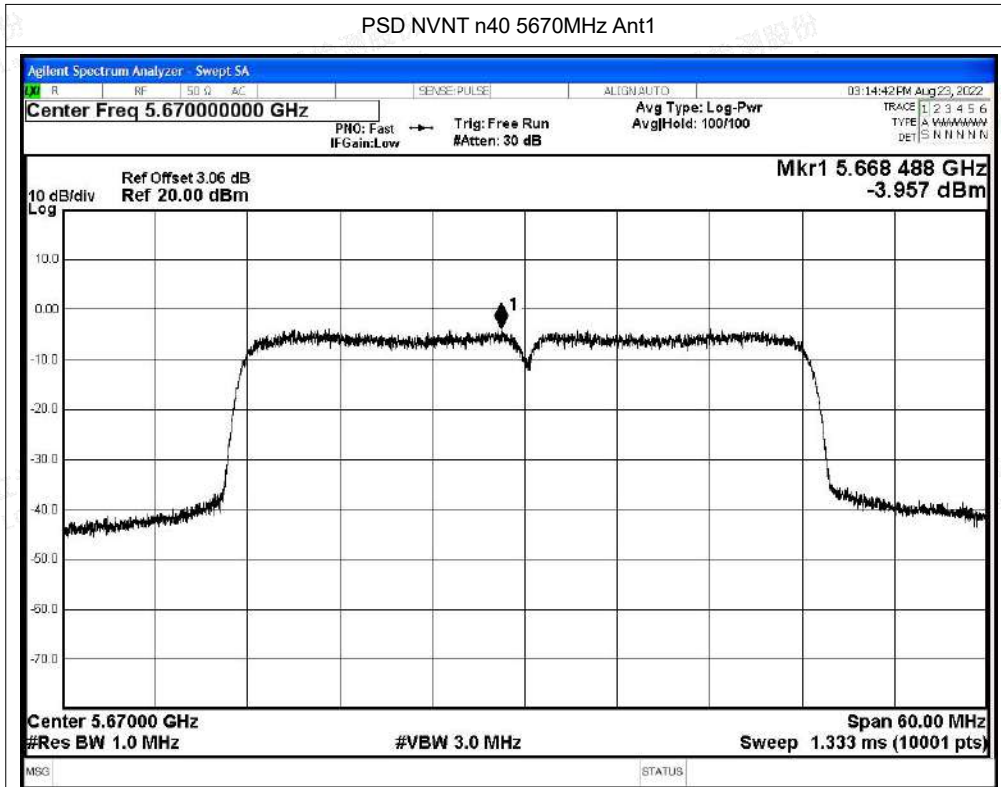
PSD NVNT a 5580MHz Ant1

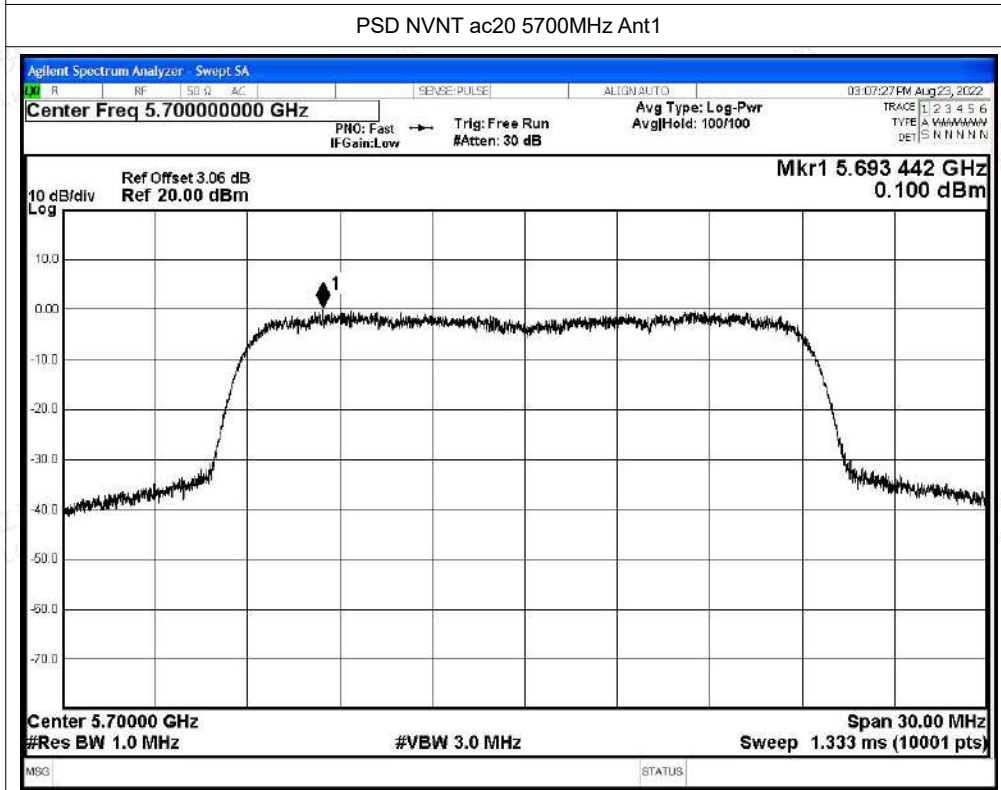
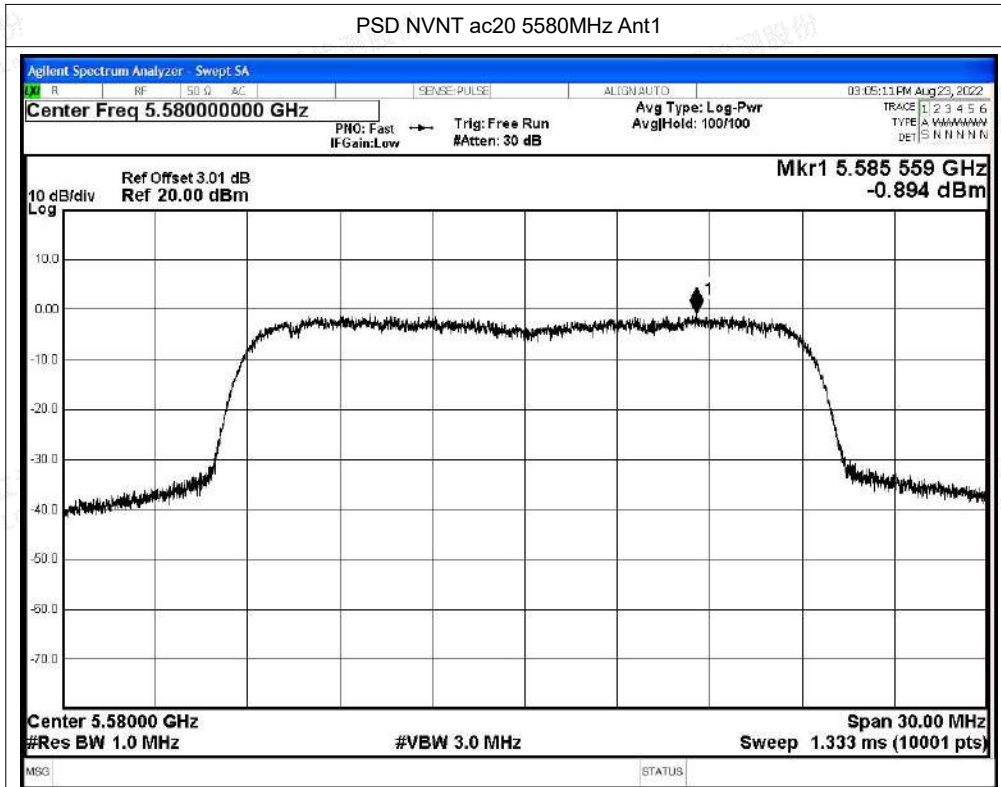


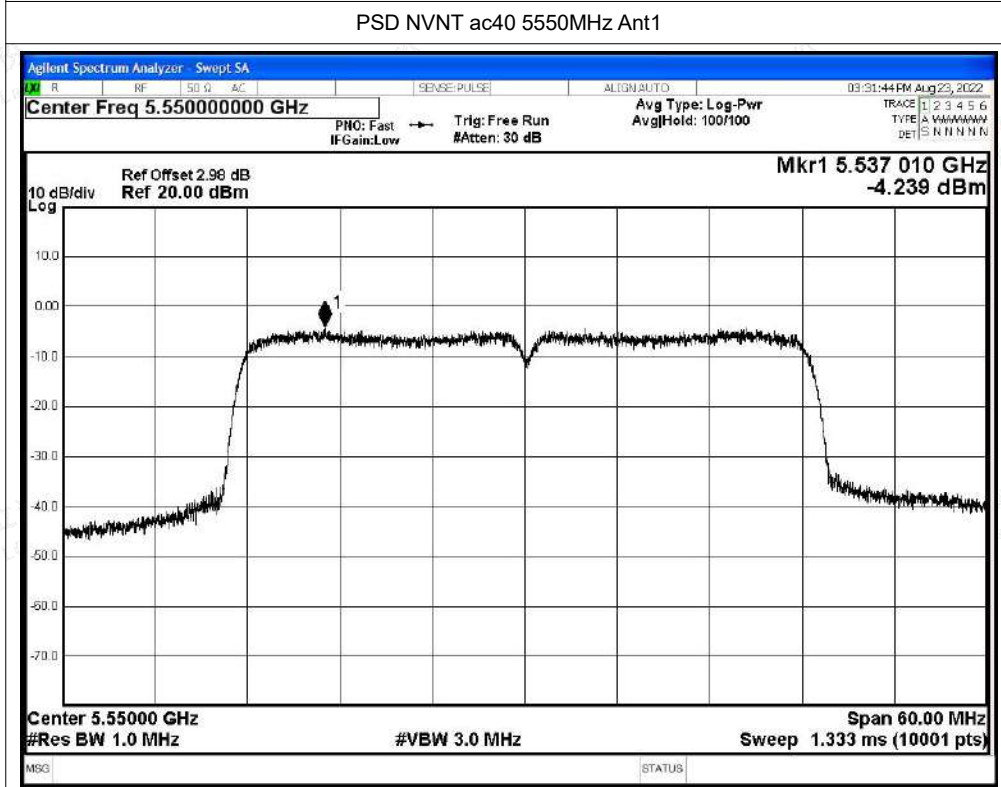
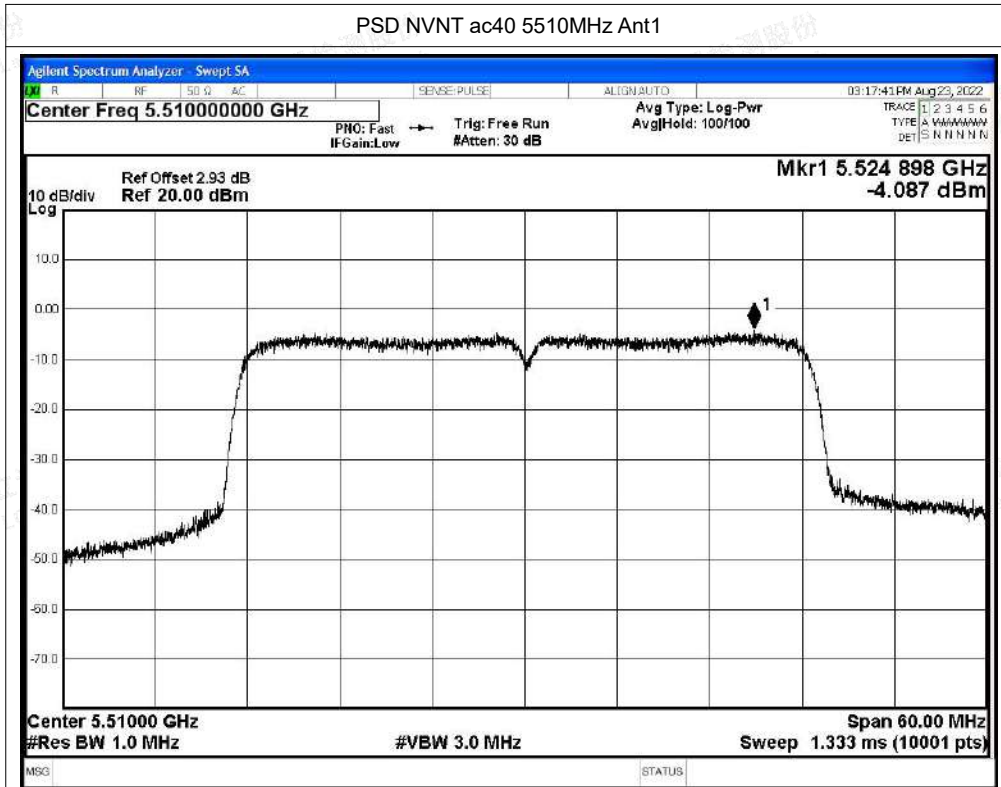


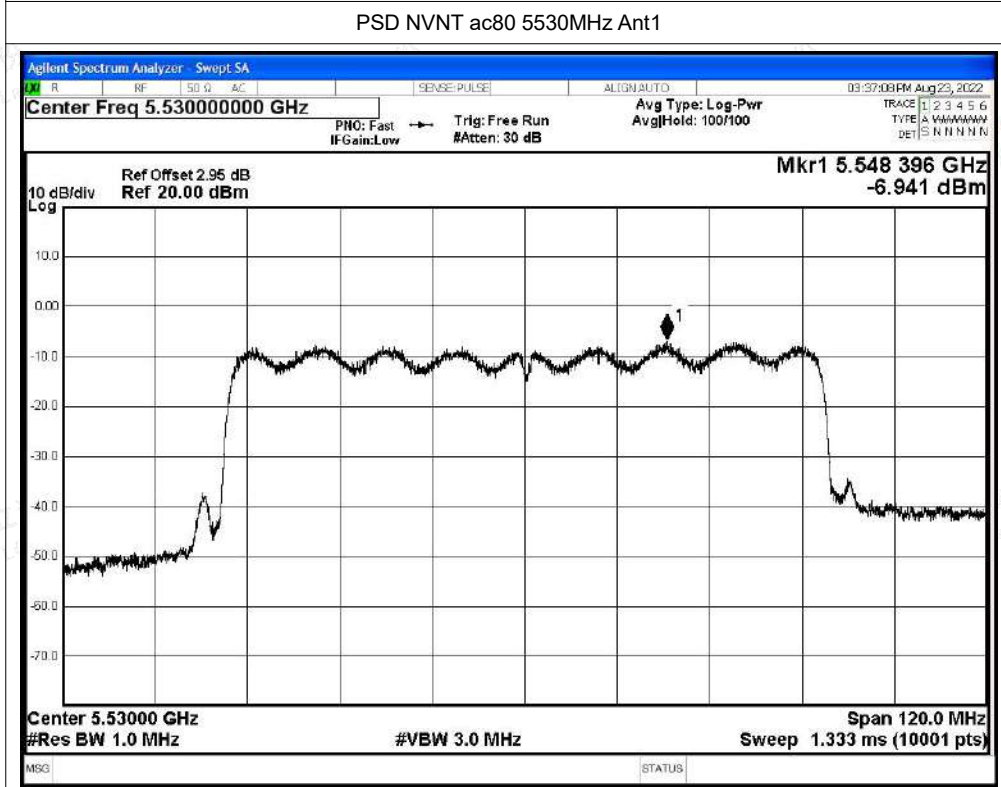
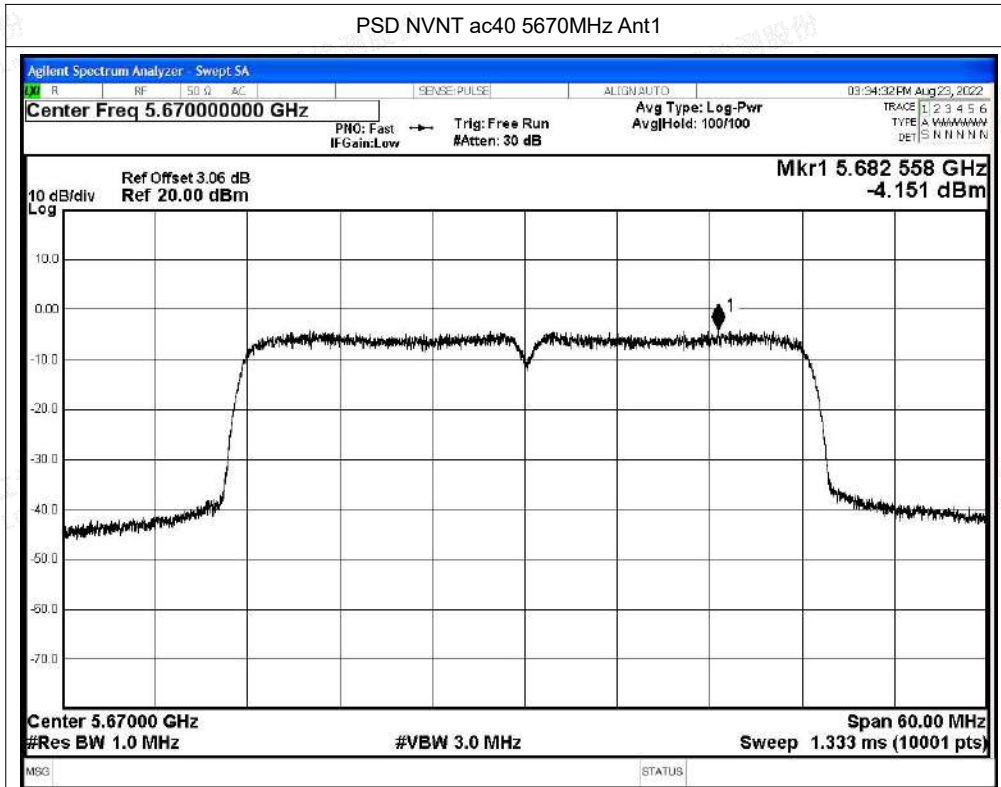


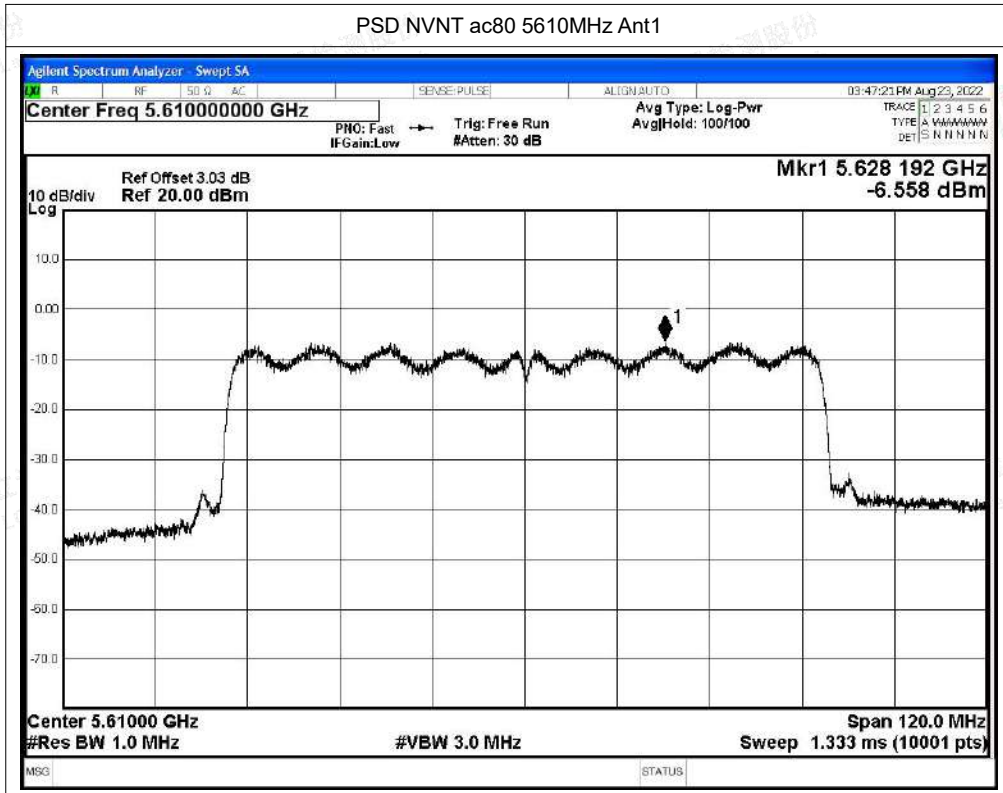














D.5 Restrict Band

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	-50.29	3.21	48.15	Peak	68.2	Pass
NVNT	a	5500	Ant1	5460	-58.67	3.21	39.77	Average	54	Pass
NVNT	a	5500	Ant1	5462.8	-45.87	3.21	52.57	Peak	68.2	Pass
NVNT	a	5500	Ant1	5469.6	-58.07	3.21	40.37	Average	54	Pass
NVNT	a	5500	Ant1	5470	-48.64	3.21	49.80	Peak	68.2	Pass
NVNT	a	5500	Ant1	5470	-58.11	3.21	40.33	Average	54	Pass
NVNT	a	5700	Ant1	5725	-40.89	3.21	57.55	Peak	68.2	Pass
NVNT	a	5700	Ant1	5725	-56.21	3.21	42.23	Average	54	Pass
NVNT	a	5700	Ant1	5735	-48.58	3.21	49.86	Peak	68.2	Pass
NVNT	a	5700	Ant1	5735	-58.28	3.21	40.16	Average	54	Pass
NVNT	n20	5500	Ant1	5460	-50.23	3.21	48.21	Peak	68.2	Pass
NVNT	n20	5500	Ant1	5460	-58.67	3.21	39.77	Average	54	Pass
NVNT	n20	5500	Ant1	5465.4	-46.43	3.21	52.01	Peak	68.2	Pass
NVNT	n20	5500	Ant1	5466.8	-58.45	3.21	39.99	Average	54	Pass
NVNT	n20	5500	Ant1	5470	-47.93	3.21	50.51	Peak	68.2	Pass
NVNT	n20	5500	Ant1	5470	-58.74	3.21	39.70	Average	54	Pass
NVNT	n20	5700	Ant1	5725	-43.1	3.21	55.34	Peak	68.2	Pass
NVNT	n20	5700	Ant1	5725	-57.32	3.21	41.12	Average	54	Pass
NVNT	n20	5700	Ant1	5735	-49.03	3.21	49.41	Peak	68.2	Pass
NVNT	n20	5700	Ant1	5735	-58.73	3.21	39.71	Average	54	Pass
NVNT	n40	5510	Ant1	5460	-36.17	3.21	62.27	Peak	68.2	Pass
NVNT	n40	5510	Ant1	5460	-54.3	3.21	44.14	Average	54	Pass
NVNT	n40	5510	Ant1	5469.2	-31.36	3.21	67.08	Peak	68.2	Pass
NVNT	n40	5510	Ant1	5470	-50.4	3.21	48.04	Average	54	Pass
NVNT	n40	5510	Ant1	5470	-33.62	3.21	64.82	Peak	68.2	Pass
NVNT	n40	5670	Ant1	5725	-45.78	3.21	52.66	Peak	68.2	Pass
NVNT	n40	5670	Ant1	5725	-51.23	3.21	47.21	Average	54	Pass
NVNT	n40	5670	Ant1	5726	-43.99	3.21	54.45	Peak	68.2	Pass
NVNT	n40	5670	Ant1	5731.4	-48.41	3.21	50.03	Average	54	Pass
NVNT	n40	5670	Ant1	5735	-48.69	3.21	49.75	Peak	68.2	Pass
NVNT	n40	5670	Ant1	5735	-52.67	3.21	45.77	Average	54	Pass
NVNT	ac20	5500	Ant1	5460	-50.07	3.21	48.37	Peak	68.2	Pass
NVNT	ac20	5500	Ant1	5460	-58.72	3.21	39.72	Average	54	Pass
NVNT	ac20	5500	Ant1	5469.2	-39.34	3.21	59.10	Peak	68.2	Pass
NVNT	ac20	5500	Ant1	5467.6	-57.69	3.21	40.75	Average	54	Pass
NVNT	ac20	5500	Ant1	5470	-46.89	3.21	51.55	Peak	68.2	Pass
NVNT	ac20	5500	Ant1	5470	-57.76	3.21	40.68	Average	54	Pass
NVNT	ac20	5700	Ant1	5725	-43.99	3.21	54.45	Peak	68.2	Pass





NVNT	ac20	5700	Ant1	5725	-57.29	3.21	41.15	Average	54	Pass
NVNT	ac20	5700	Ant1	5735	-49.19	3.21	49.25	Peak	68.2	Pass
NVNT	ac20	5700	Ant1	5735	-58.58	3.21	39.86	Average	54	Pass
NVNT	ac40	5510	Ant1	5460	-49.59	3.21	48.85	Peak	68.2	Pass
NVNT	ac40	5510	Ant1	5460	-51.13	3.21	47.31	Average	54	Pass
NVNT	ac40	5510	Ant1	5470	-45.24	3.21	53.20	Peak	68.2	Pass
NVNT	ac40	5510	Ant1	5468.6	-48.96	3.21	49.48	Average	54	Pass
NVNT	ac40	5670	Ant1	5725	-48.65	3.21	49.79	Peak	68.2	Pass
NVNT	ac40	5670	Ant1	5725	-58.43	3.21	40.01	Average	54	Pass
NVNT	ac40	5670	Ant1	5728.4	-47.67	3.21	50.77	Peak	68.2	Pass
NVNT	ac40	5670	Ant1	5726.6	-58.2	3.21	40.24	Average	54	Pass
NVNT	ac40	5670	Ant1	5735	-48.82	3.21	49.62	Peak	68.2	Pass
NVNT	ac40	5670	Ant1	5735	-58.52	3.21	39.92	Average	54	Pass
NVNT	ac80	5530	Ant1	5460	-41.47	3.21	56.97	Peak	68.2	Pass
NVNT	ac80	5530	Ant1	5460	-53.13	3.21	45.31	Average	54	Pass
NVNT	ac80	5530	Ant1	5469.6	-36.7	3.21	61.74	Peak	68.2	Pass
NVNT	ac80	5530	Ant1	5467	-51.17	3.21	47.27	Average	54	Pass
NVNT	ac80	5530	Ant1	5470	-37.59	3.21	60.85	Peak	68.2	Pass
NVNT	ac80	5530	Ant1	5470	-51.69	3.21	46.75	Average	54	Pass
NVNT	ac80	5610	Ant1	5725	-46.82	3.21	51.62	Peak	68.2	Pass
NVNT	ac80	5610	Ant1	5725	-47.07	3.21	51.37	Average	54	Pass
NVNT	ac80	5610	Ant1	5725.365	-44.43	3.21	54.01	Peak	68.2	Pass
NVNT	ac80	5610	Ant1	5732.13	-45.88	3.21	52.56	Average	54	Pass
NVNT	ac80	5610	Ant1	5735	-45.69	3.21	52.75	Peak	68.2	Pass
NVNT	ac80	5610	Ant1	5735	-52.1	3.21	46.34	Average	54	Pass



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

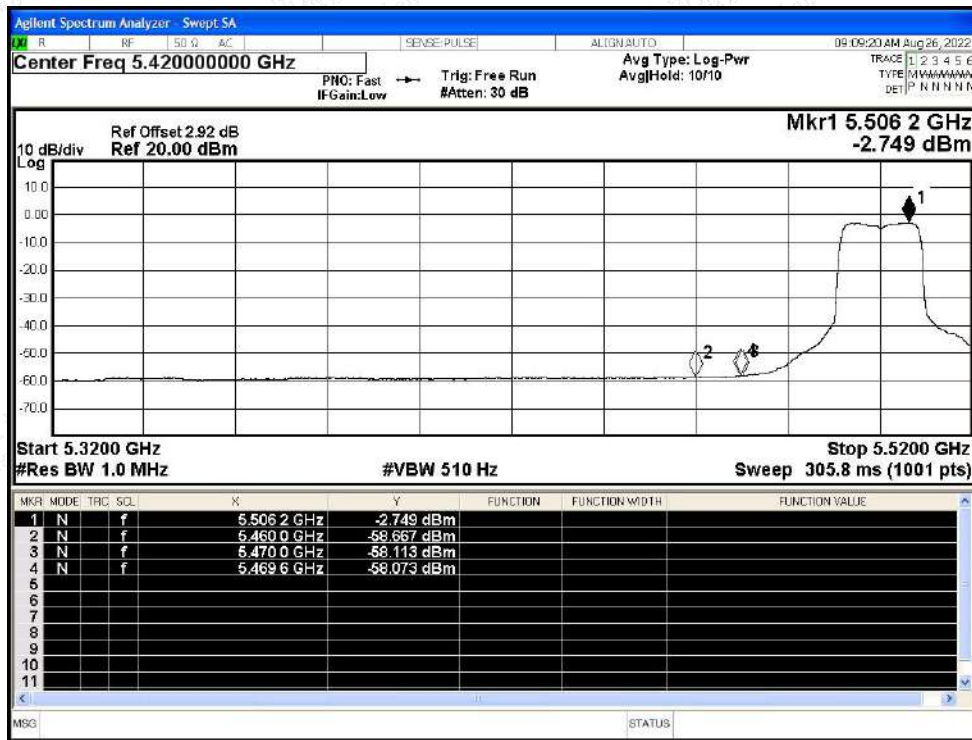


Test Graphs

Restrict Band NVNT a 5500MHz Ant1 Peak

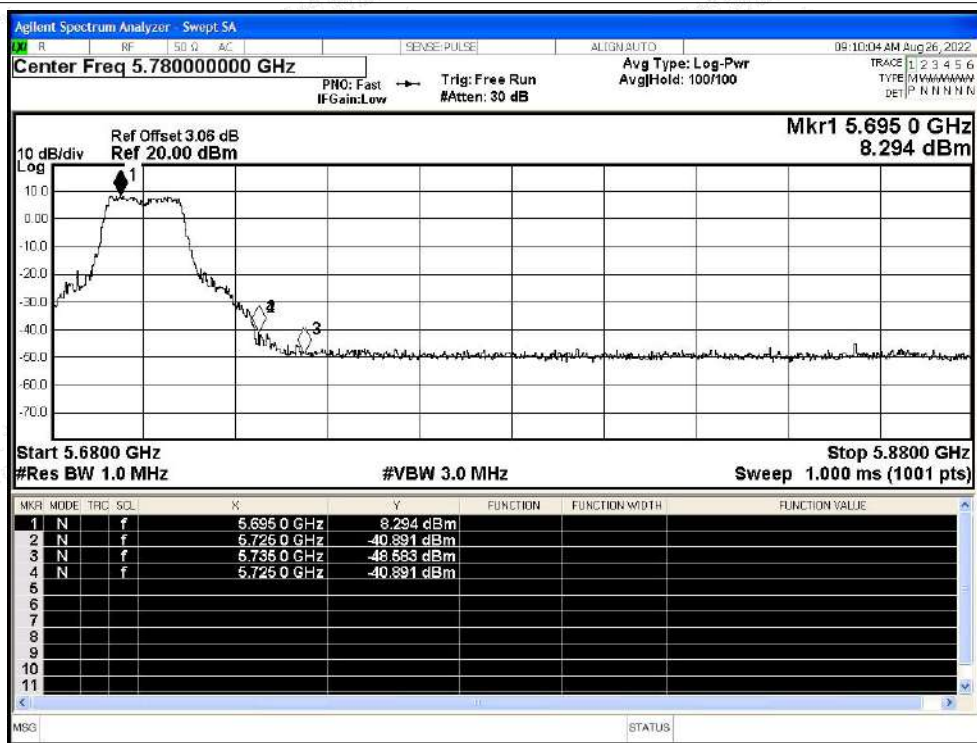


Restrict Band NVNT a 5500MHz Ant1 Average

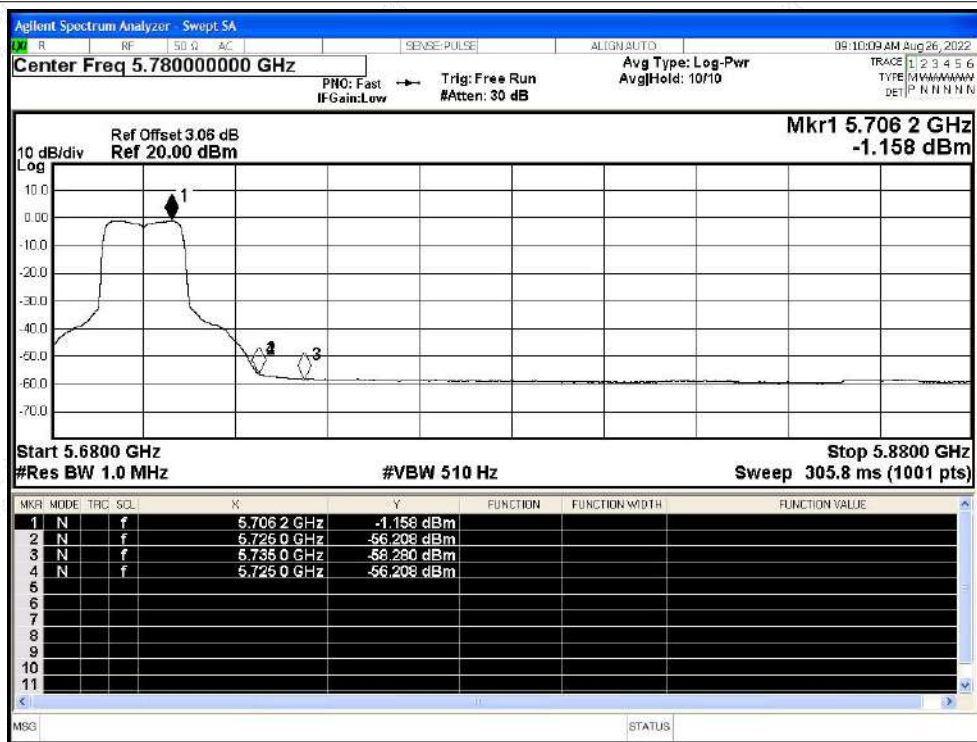




Restrict Band NVNT a 5700MHz Ant1 Peak

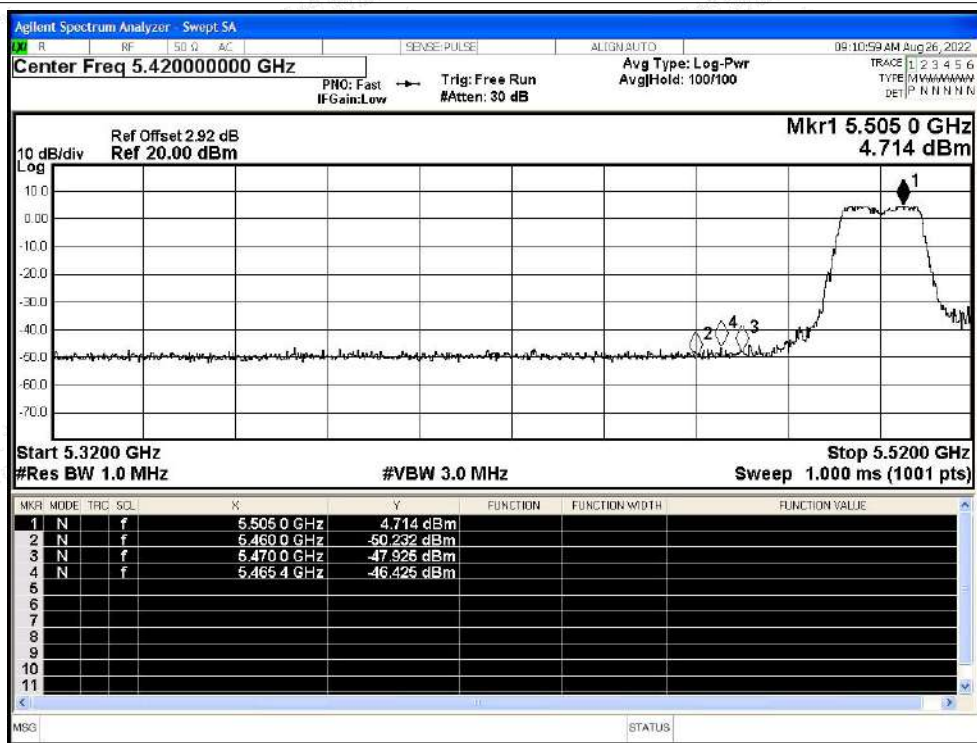


Restrict Band NVNT a 5700MHz Ant1 Average

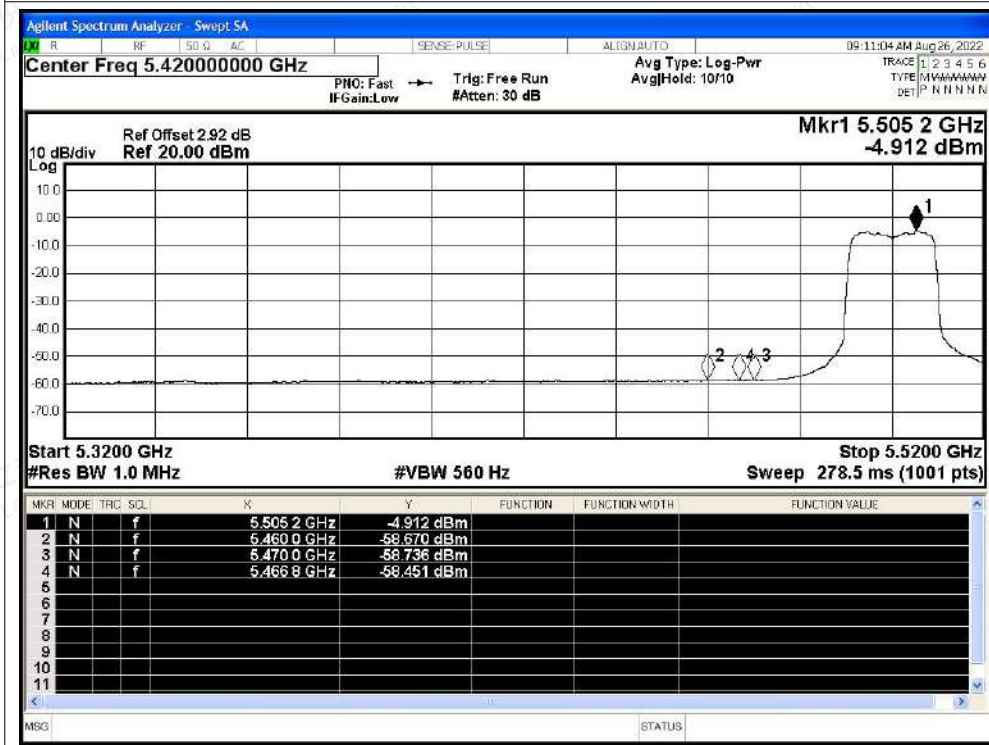




Restrict Band NVNT n20 5500MHz Ant1 Peak

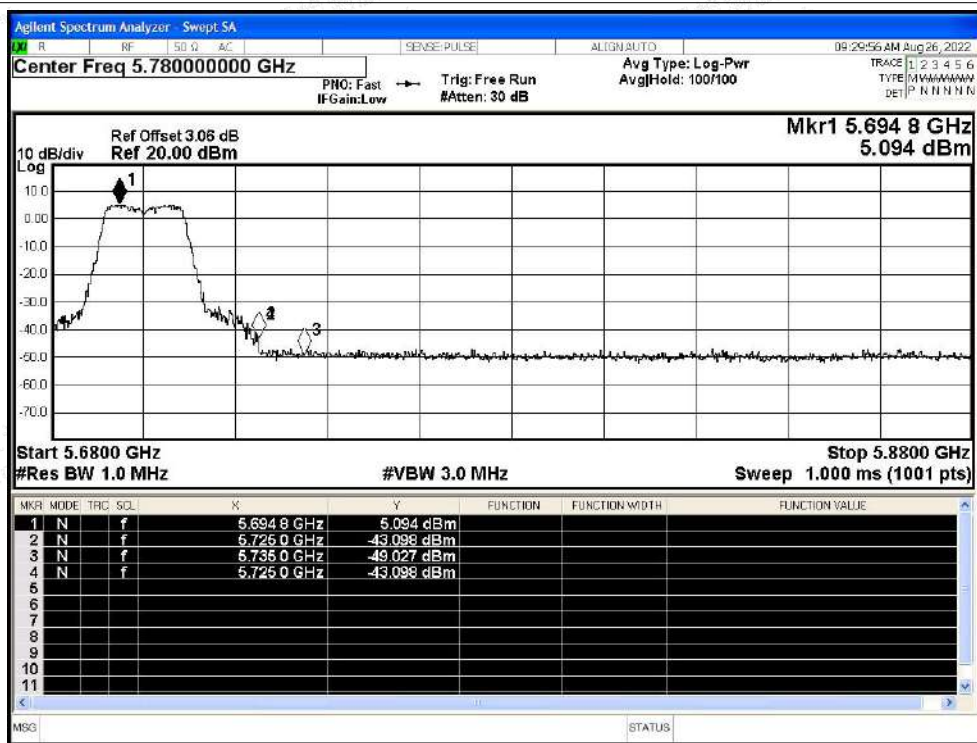


Restrict Band NVNT n20 5500MHz Ant1 Average

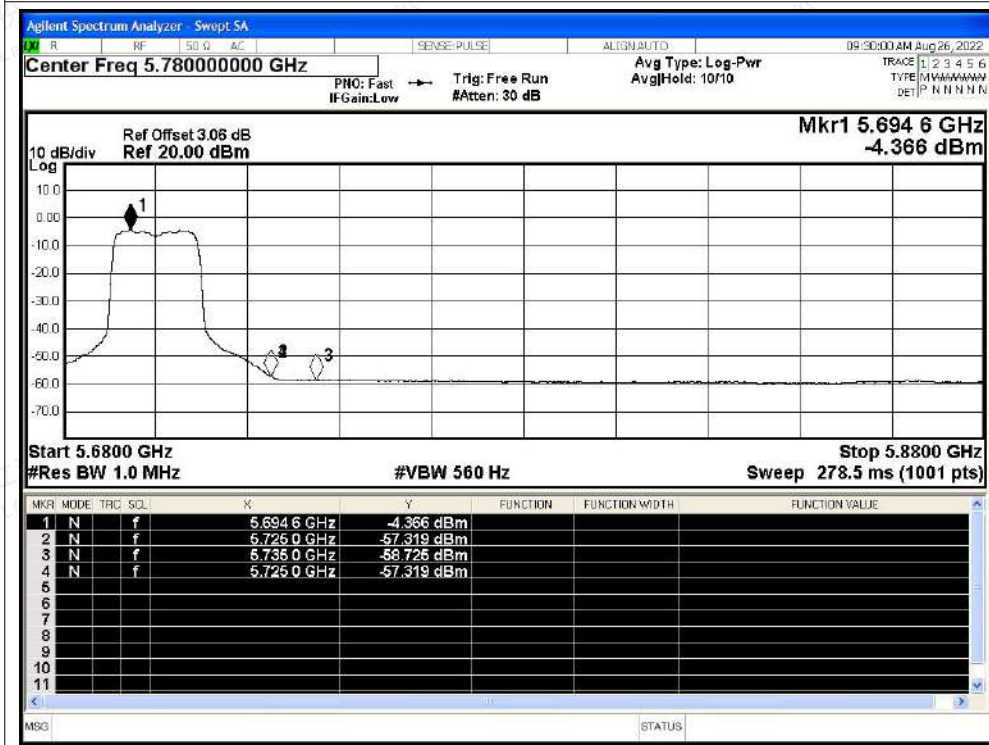




Restrict Band NVNT n20 5700MHz Ant1 Peak

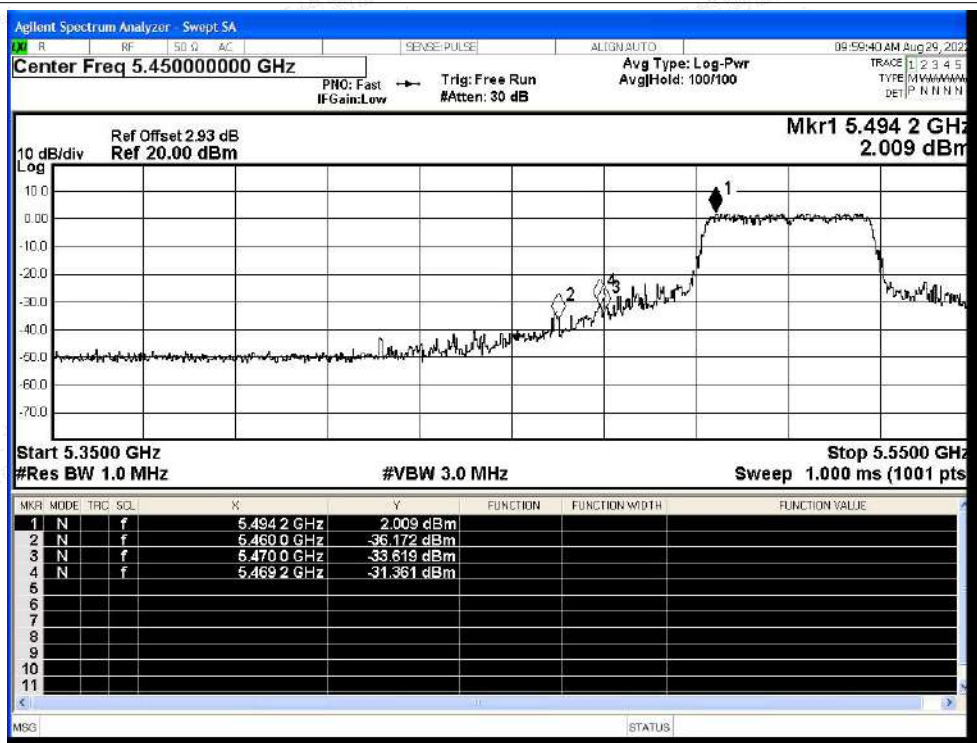


Restrict Band NVNT n20 5700MHz Ant1 Average

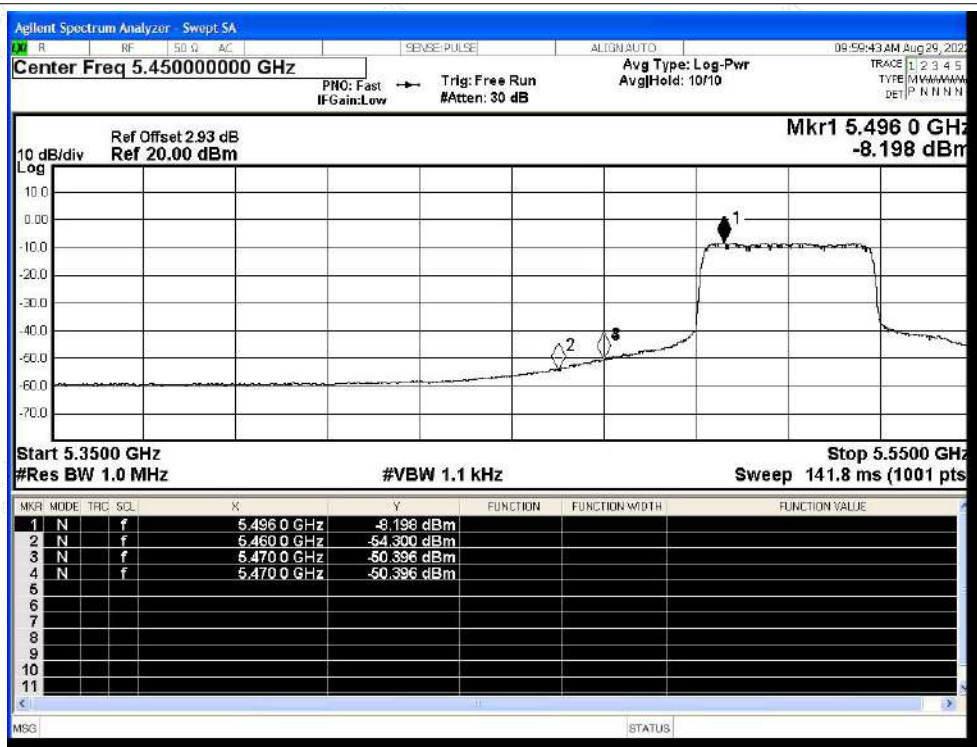




Restrict Band NVNT n40 5510MHz Ant1 Peak

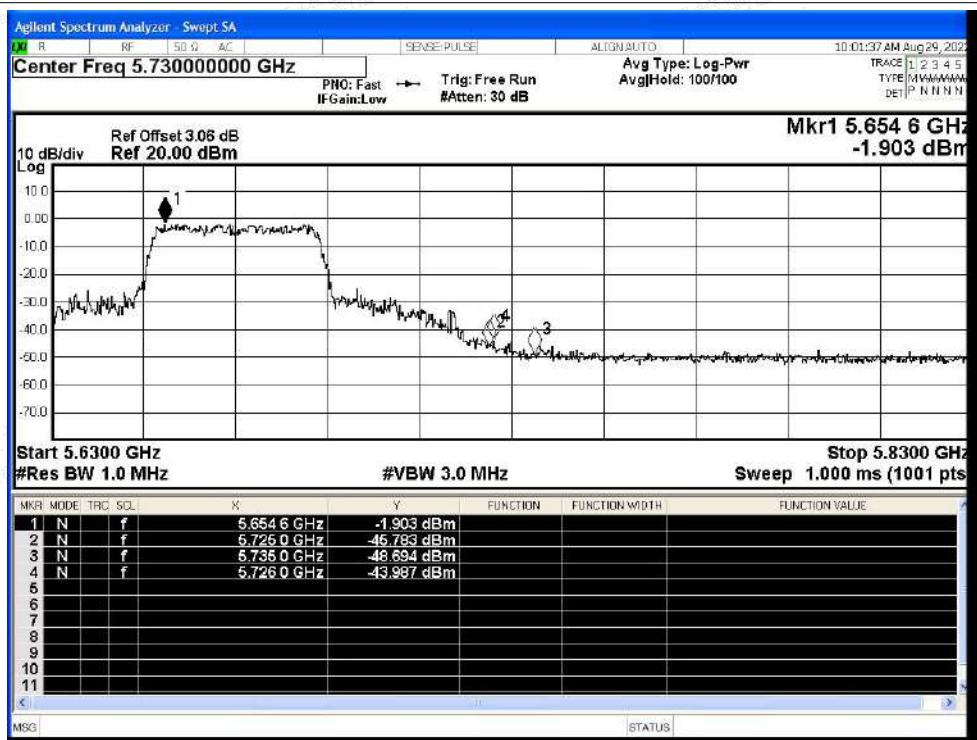


Restrict Band NVNT n40 5510MHz Ant1 Average

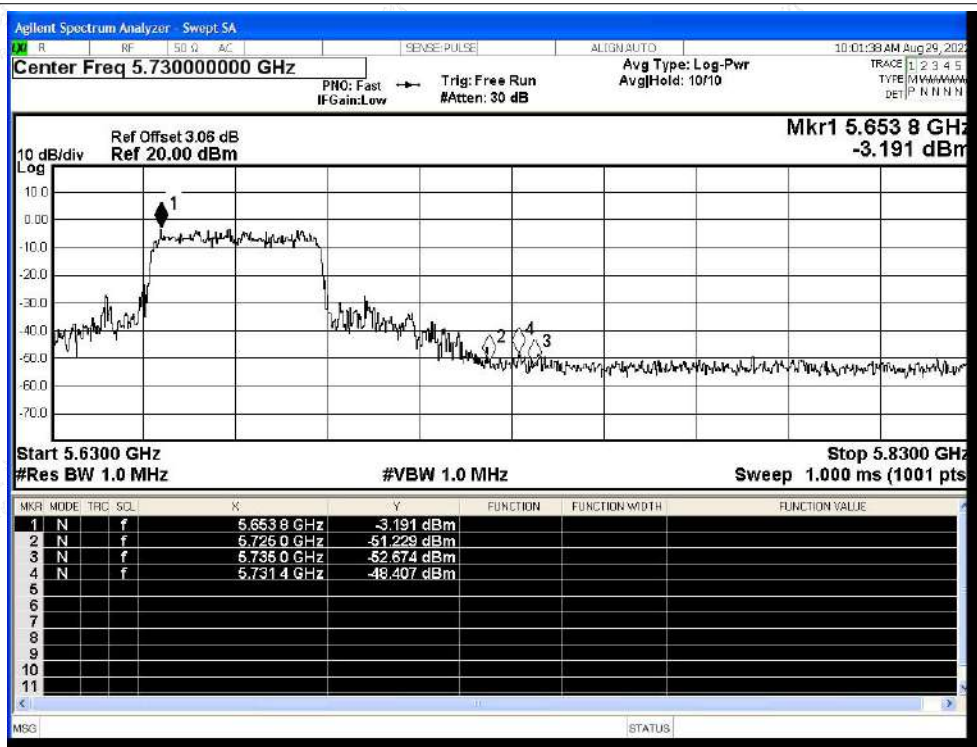




Restrict Band NVNT n40 5670MHz Ant1 Peak



Restrict Band NVNT n40 5670MHz Ant1 Average

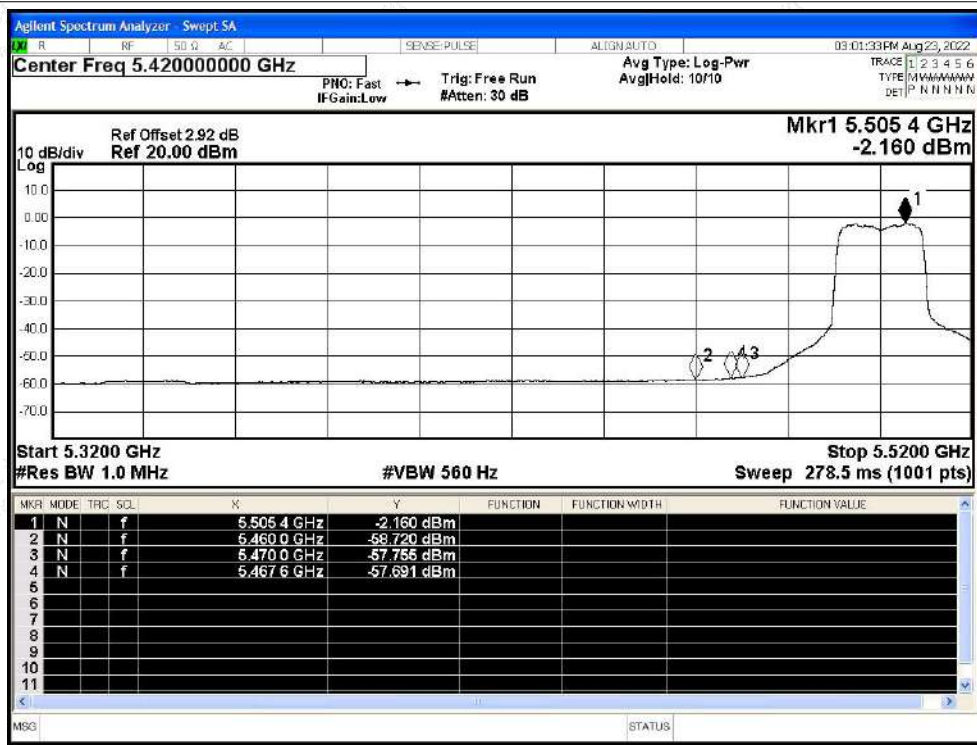




Restrict Band NVNT ac20 5500MHz Ant1 Peak

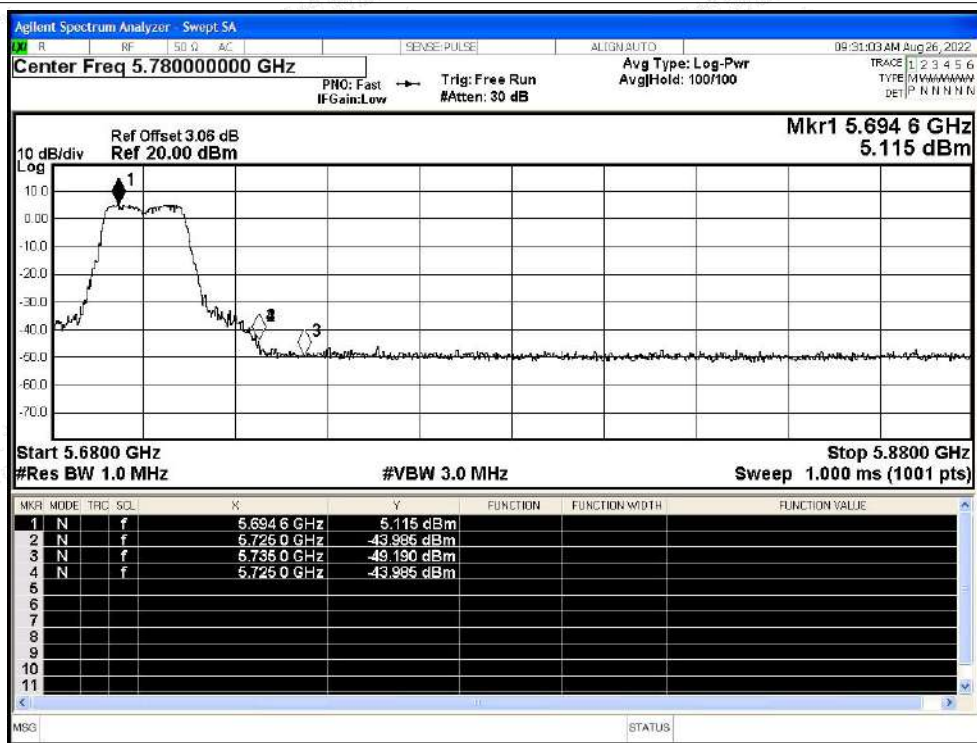


Restrict Band NVNT ac20 5500MHz Ant1 Average

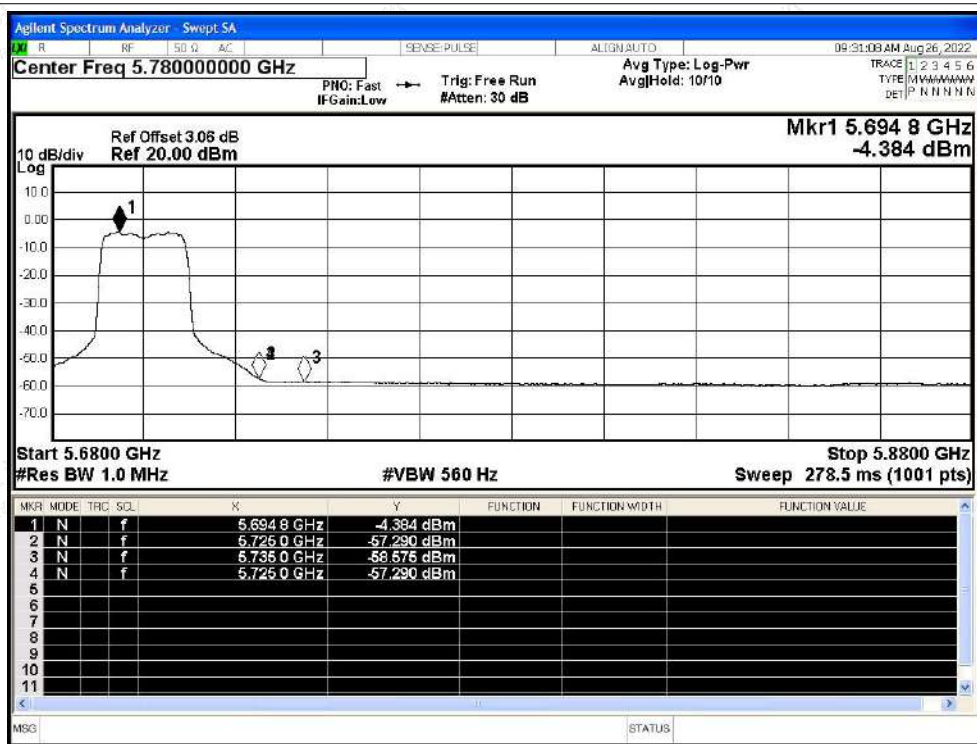




Restrict Band NVNT ac20 5700MHz Ant1 Peak

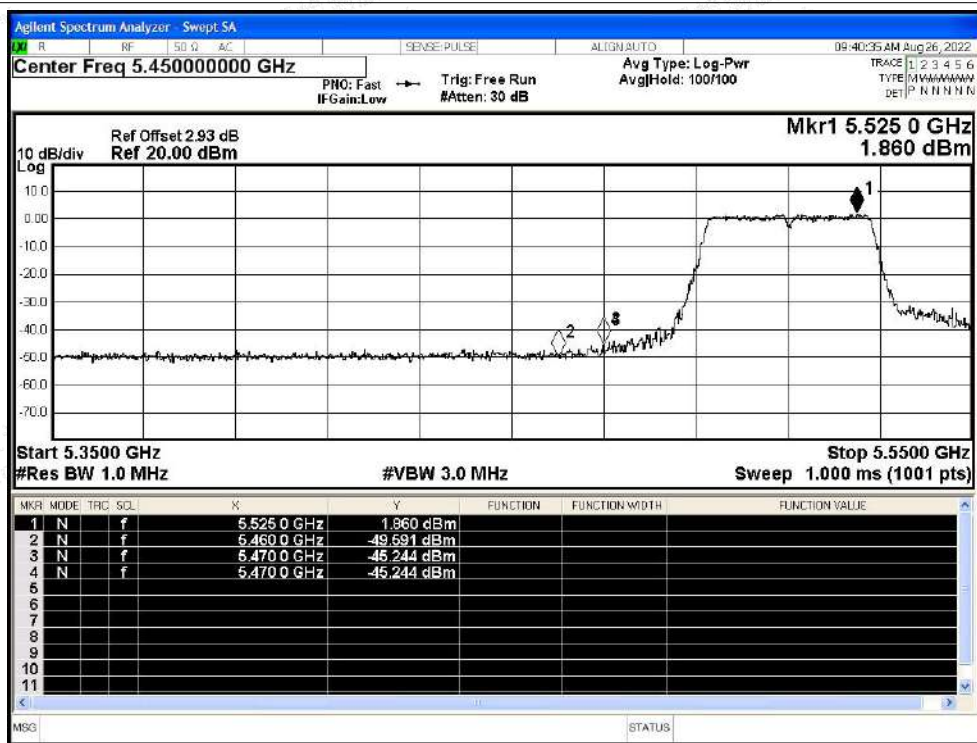


Restrict Band NVNT ac20 5700MHz Ant1 Average

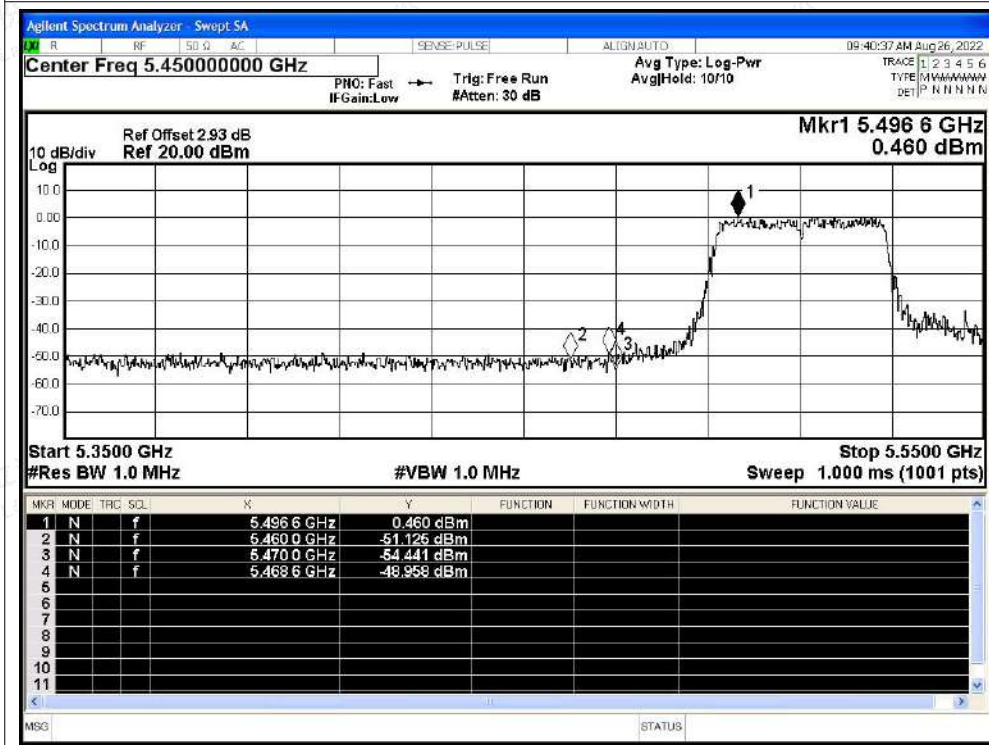




Restrict Band NVNT ac40 5510MHz Ant1 Peak

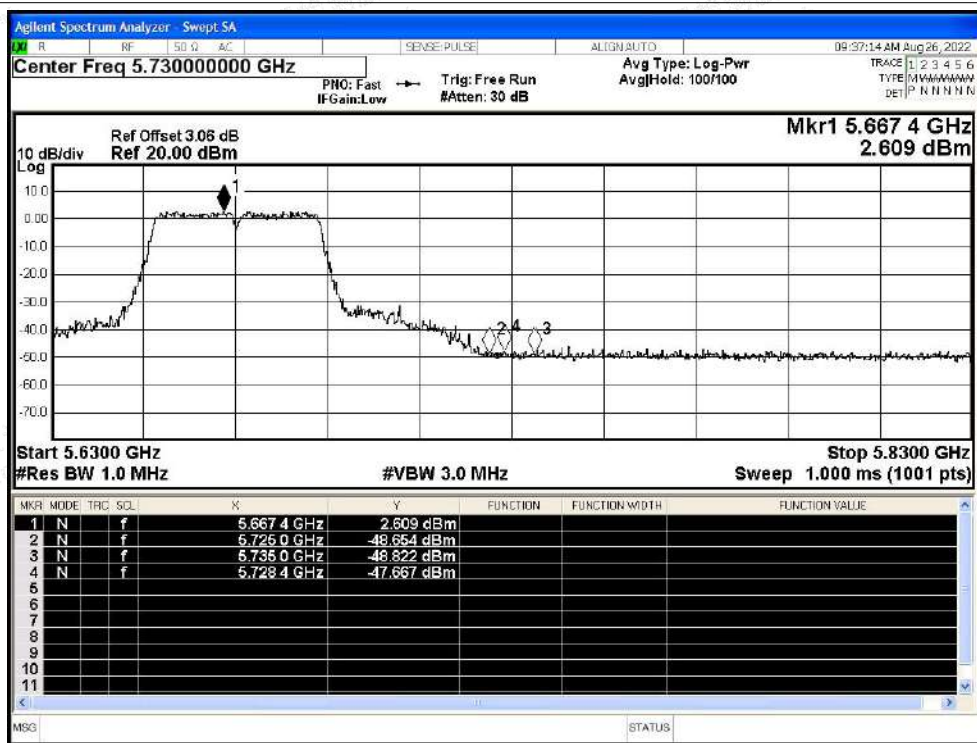


Restrict Band NVNT ac40 5510MHz Ant1 Average

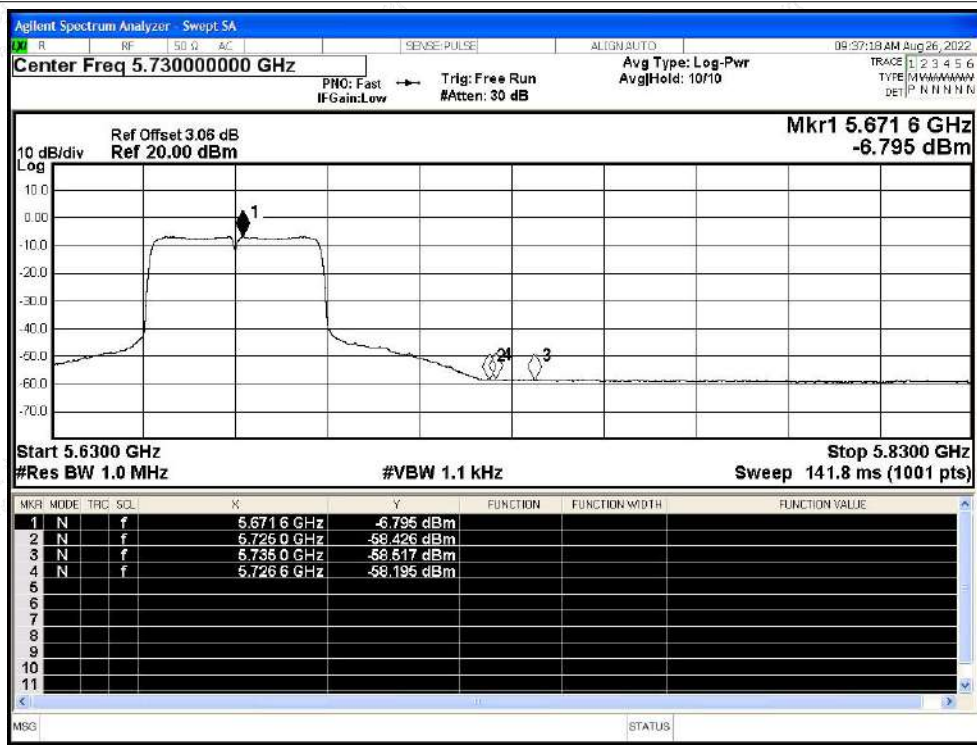




Restrict Band NVNT ac40 5670MHz Ant1 Peak

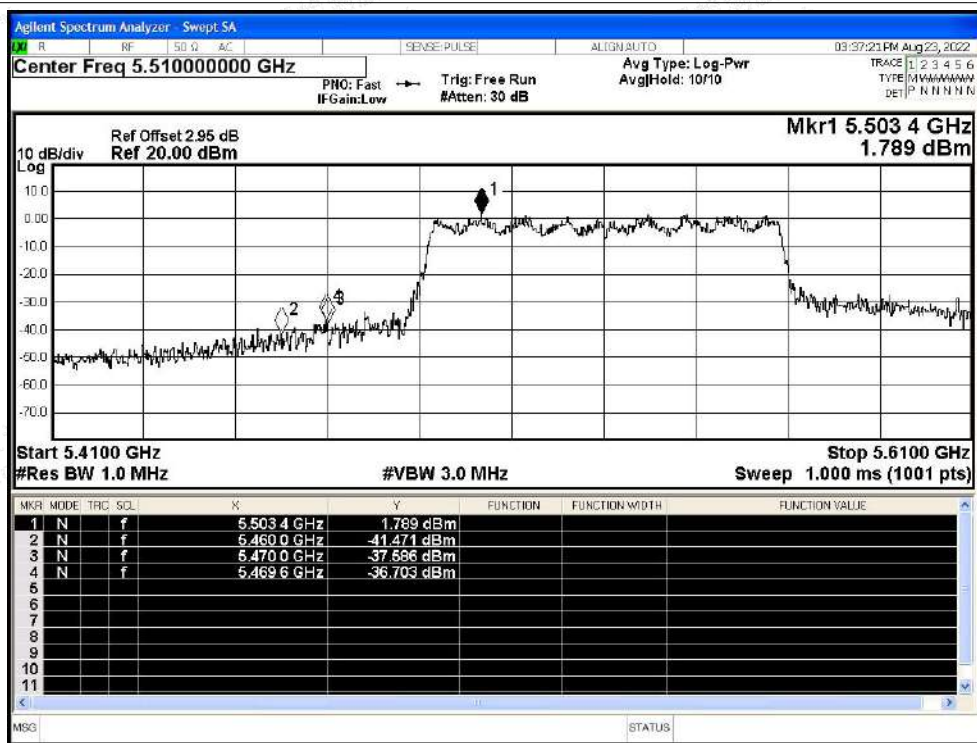


Restrict Band NVNT ac40 5670MHz Ant1 Average

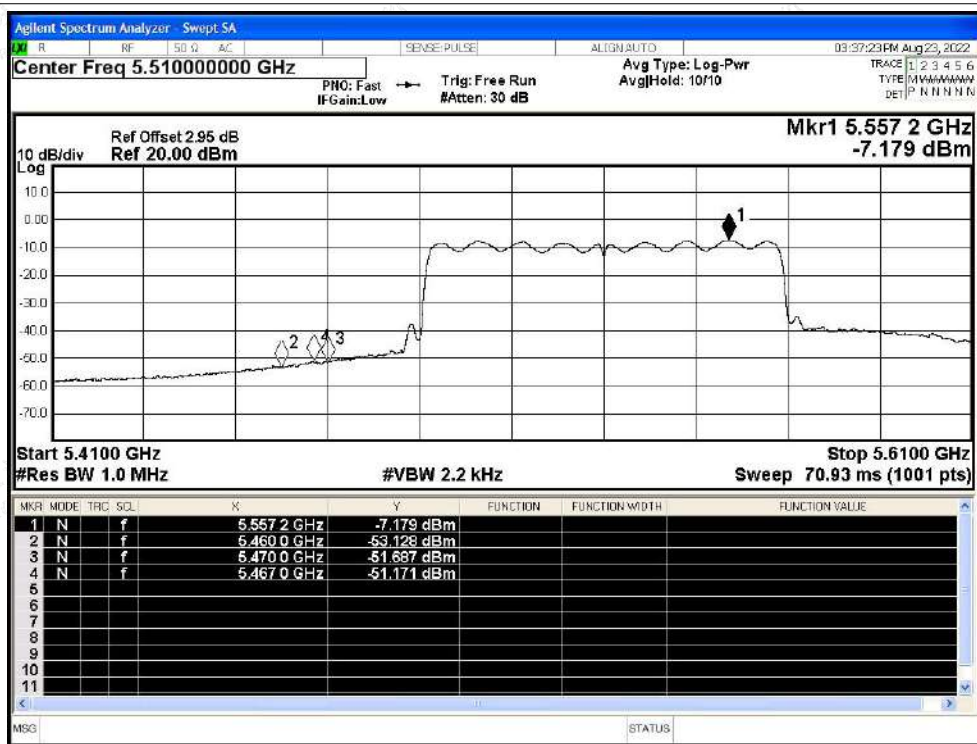




Restrict Band NVNT ac80 5530MHz Ant1 Peak

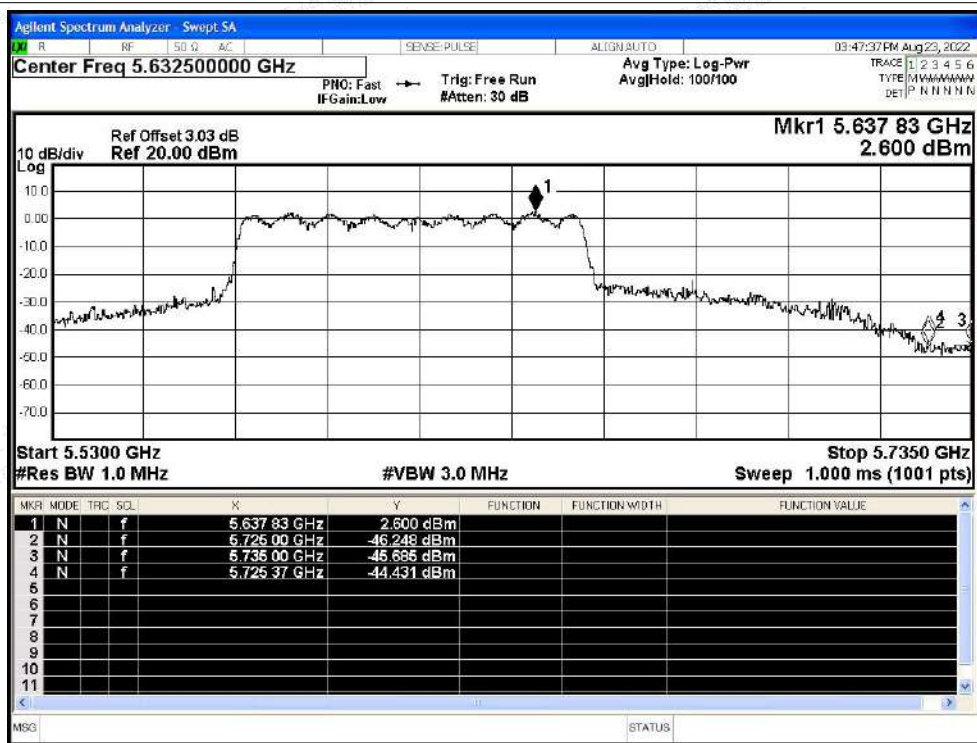


Restrict Band NVNT ac80 5530MHz Ant1 Average

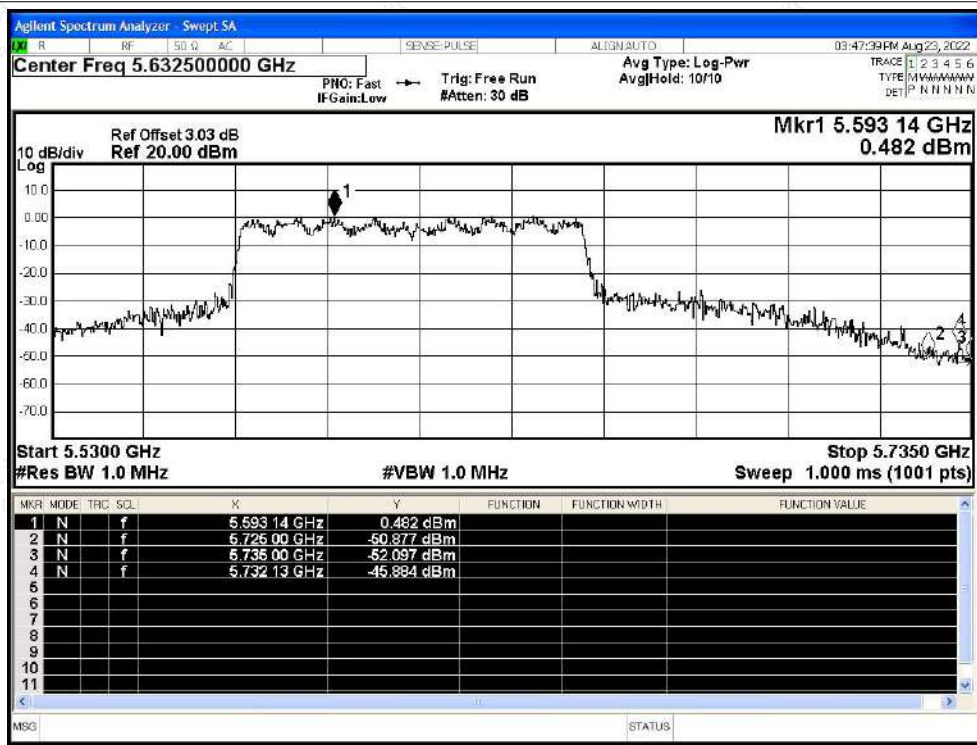




Restrict Band NVNT ac80 5610MHz Ant1 Peak



Restrict Band NVNT ac80 5610MHz Ant1 Average





D.6 Frequency Stability

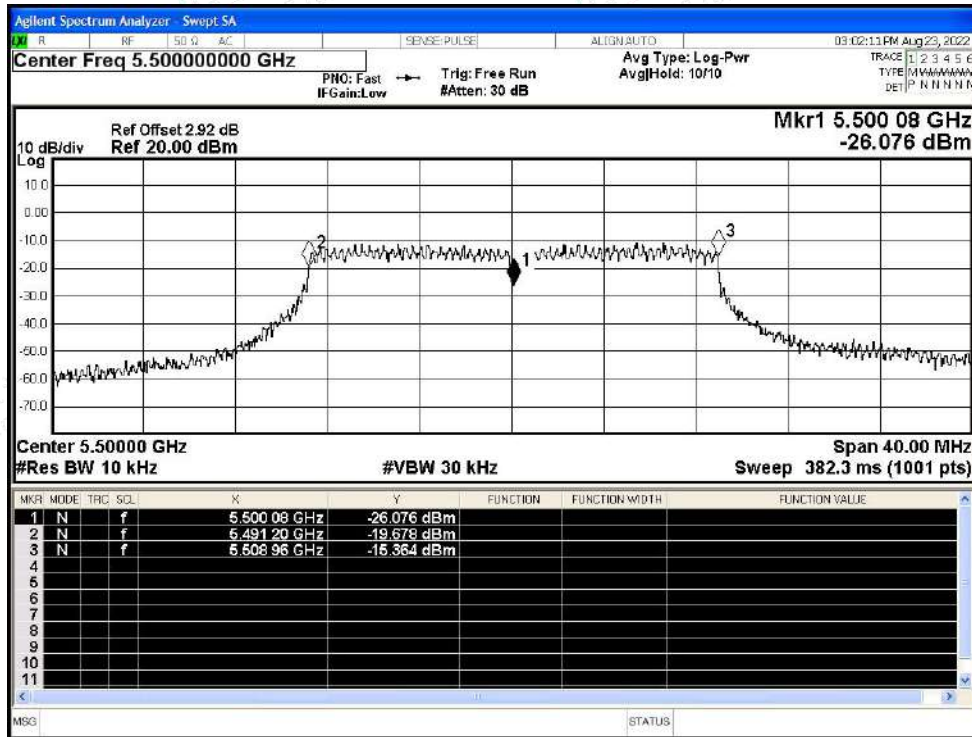
Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	ac20	5500	Ant1	5500.08	80000	14.55	25	Pass
NVNT	ac20	5580	Ant1	5580.1	100000	17.92	25	Pass
NVNT	ac20	5700	Ant1	5700.12	120000	21.05	25	Pass
NVNT	ac40	5510	Ant1	5510.08	80000	14.52	25	Pass
NVNT	ac40	5550	Ant1	5550.08	80000	14.41	25	Pass
NVNT	ac40	5670	Ant1	5670.08	80000	14.11	25	Pass
NVNT	ac80	5530	Ant1	5530	0	0	25	Pass
NVNT	ac80	5610	Ant1	5610.08	80000	14.26	25	Pass



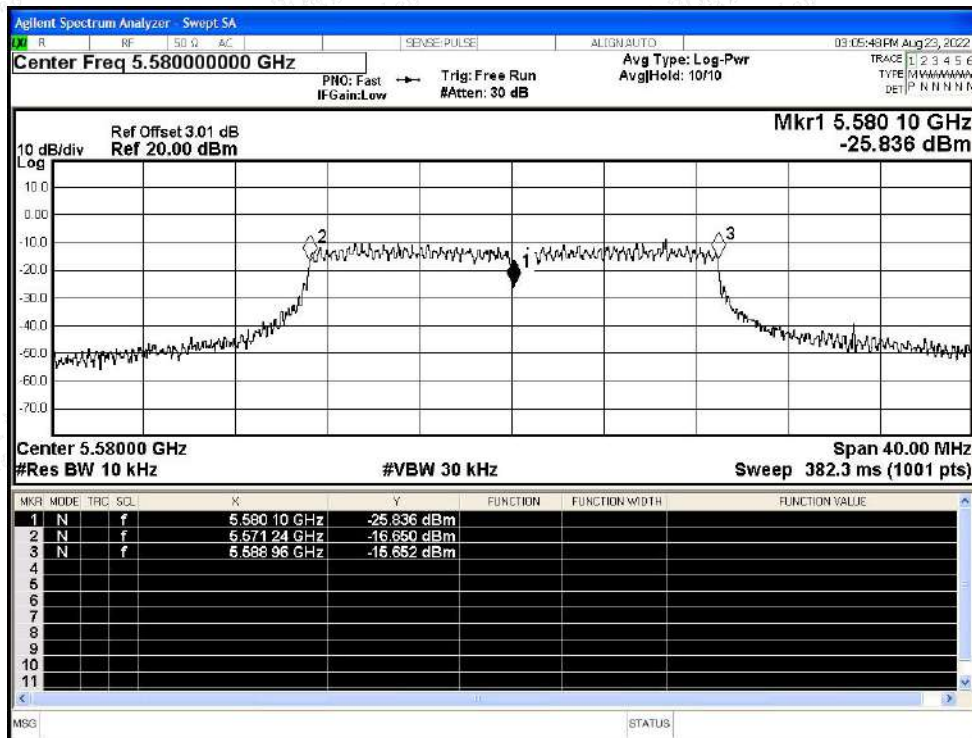


Test Graphs

Freq. Stability NVNT ac20 5500MHz Ant1

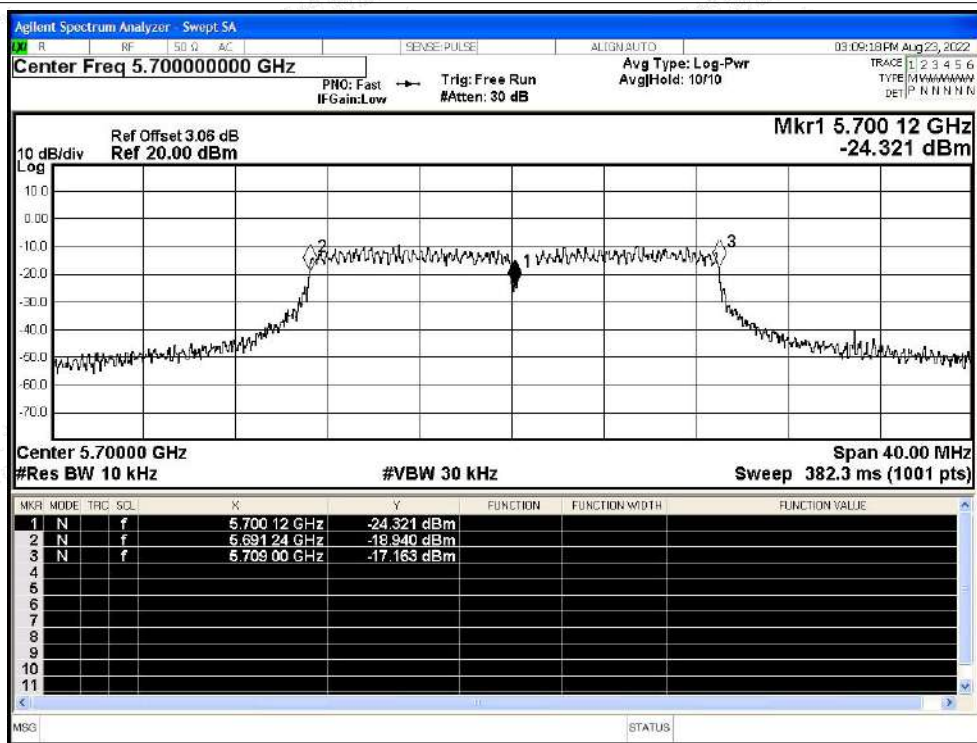


Freq. Stability NVNT ac20 5580MHz Ant1

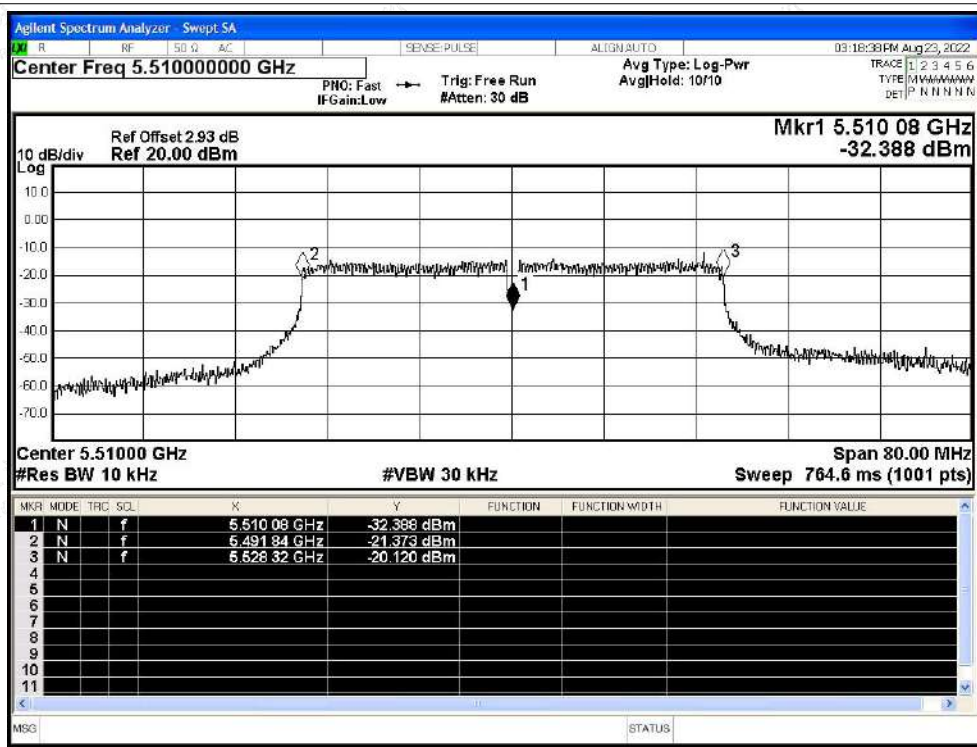




Freq. Stability NVNT ac20 5700MHz Ant1

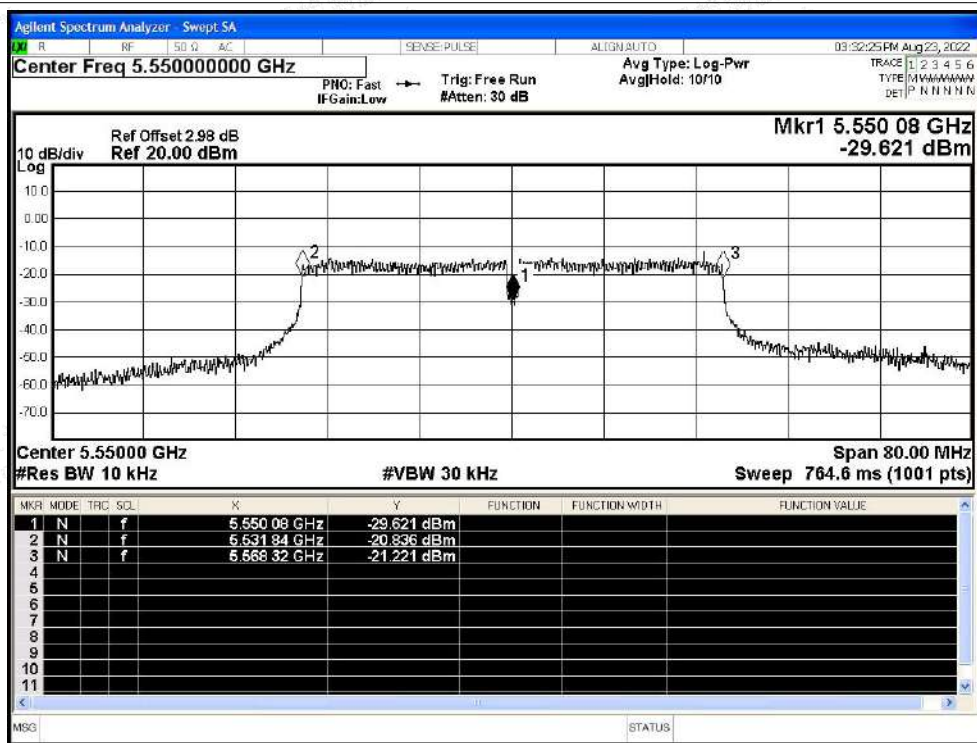


Freq. Stability NVNT ac40 5510MHz Ant1

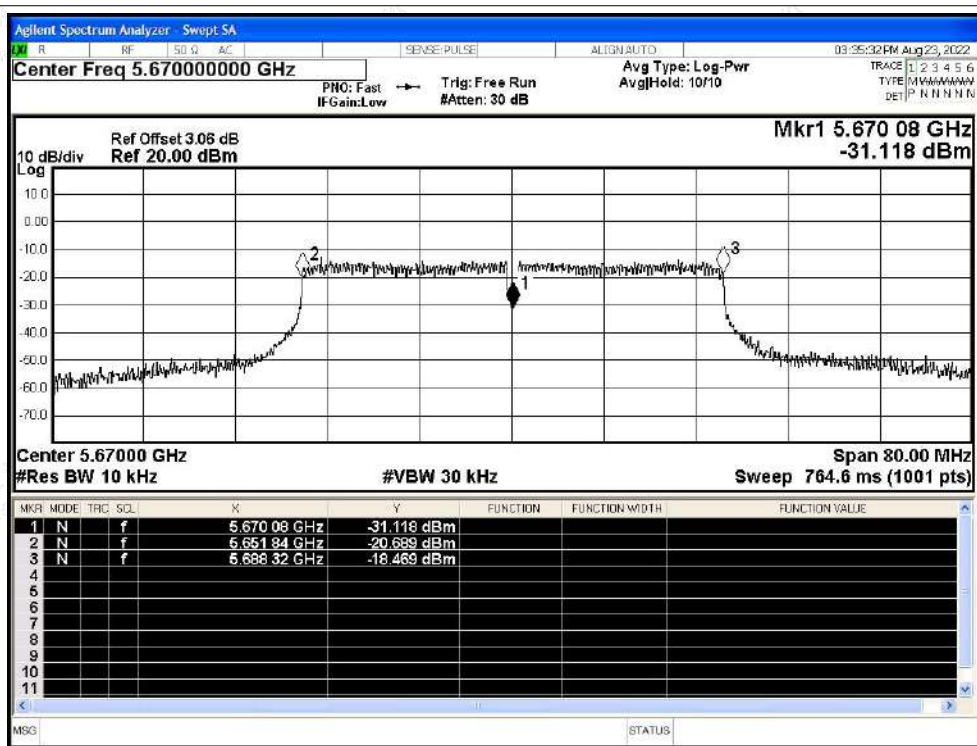




Freq. Stability NVNT ac40 5550MHz Ant1

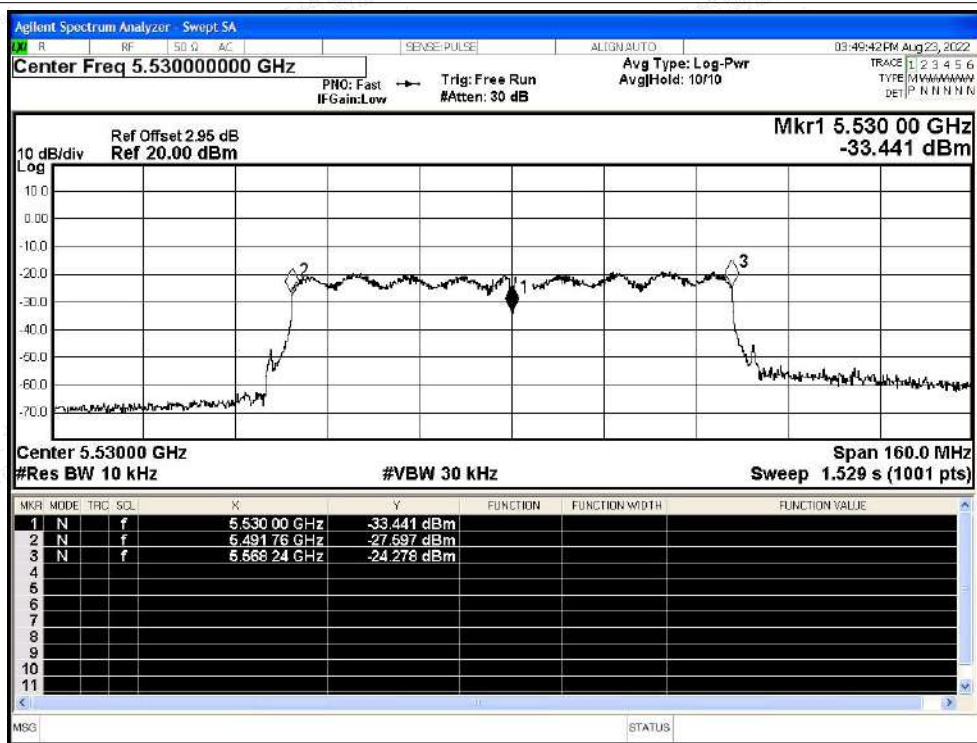


Freq. Stability NVNT ac40 5670MHz Ant1

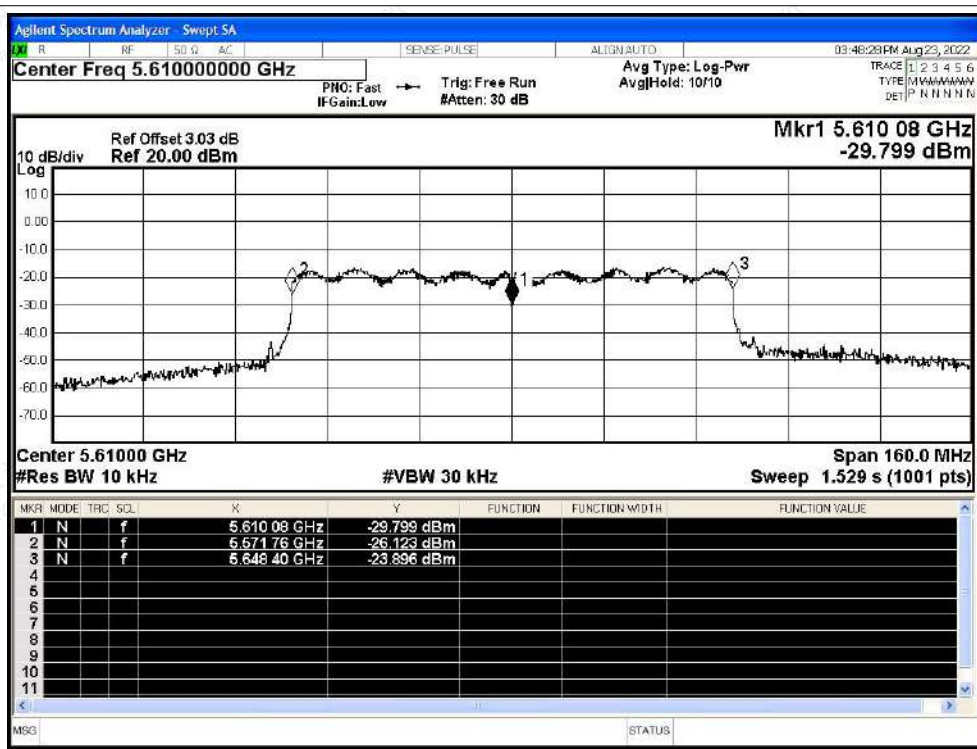




Freq. Stability NVNT ac80 5530MHz Ant1



Freq. Stability NVNT ac80 5610MHz Ant1





D.7 Duty Cycle

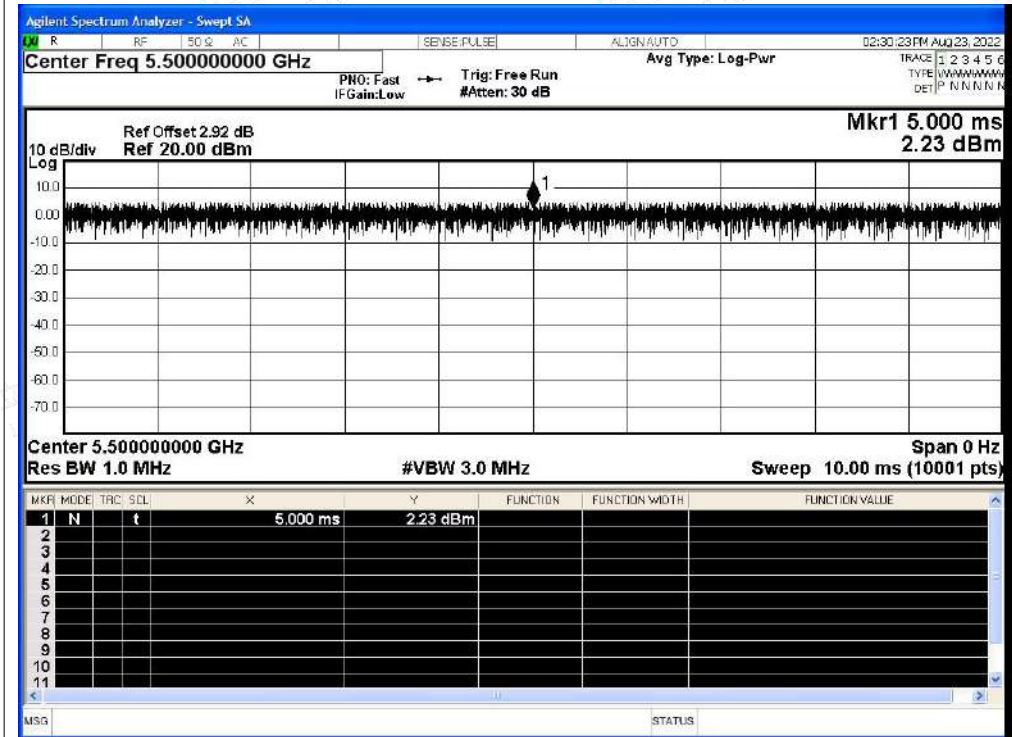
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5500	Ant1	100	0	0
NVNT	a	5580	Ant1	100	0	0
NVNT	a	5700	Ant1	100	0	0
NVNT	n20	5500	Ant1	100	0	0
NVNT	n20	5580	Ant1	100	0	0
NVNT	n20	5700	Ant1	100	0	0
NVNT	n40	5510	Ant1	100	0	0
NVNT	n40	5550	Ant1	100	0	0
NVNT	n40	5670	Ant1	100	0	0
NVNT	ac20	5500	Ant1	100	0	0
NVNT	ac20	5580	Ant1	100	0	0
NVNT	ac20	5700	Ant1	100	0	0
NVNT	ac40	5510	Ant1	100	0	0
NVNT	ac40	5550	Ant1	100	0	0
NVNT	ac40	5670	Ant1	100	0	0
NVNT	ac80	5530	Ant1	100	0	0
NVNT	ac80	5610	Ant1	100	0	0



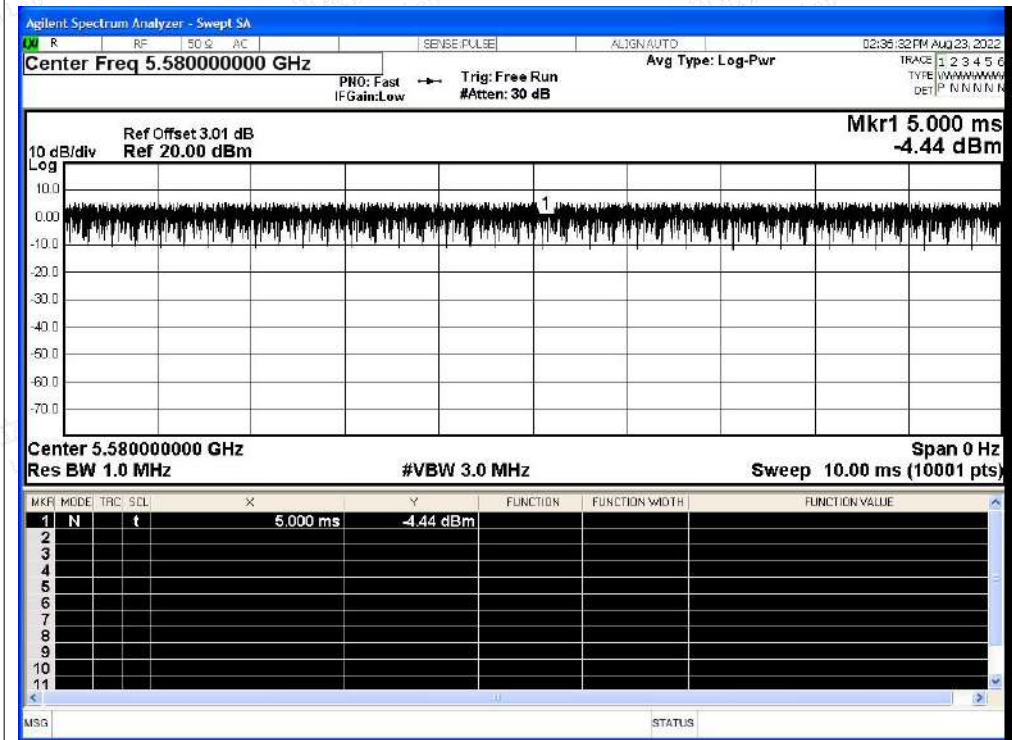


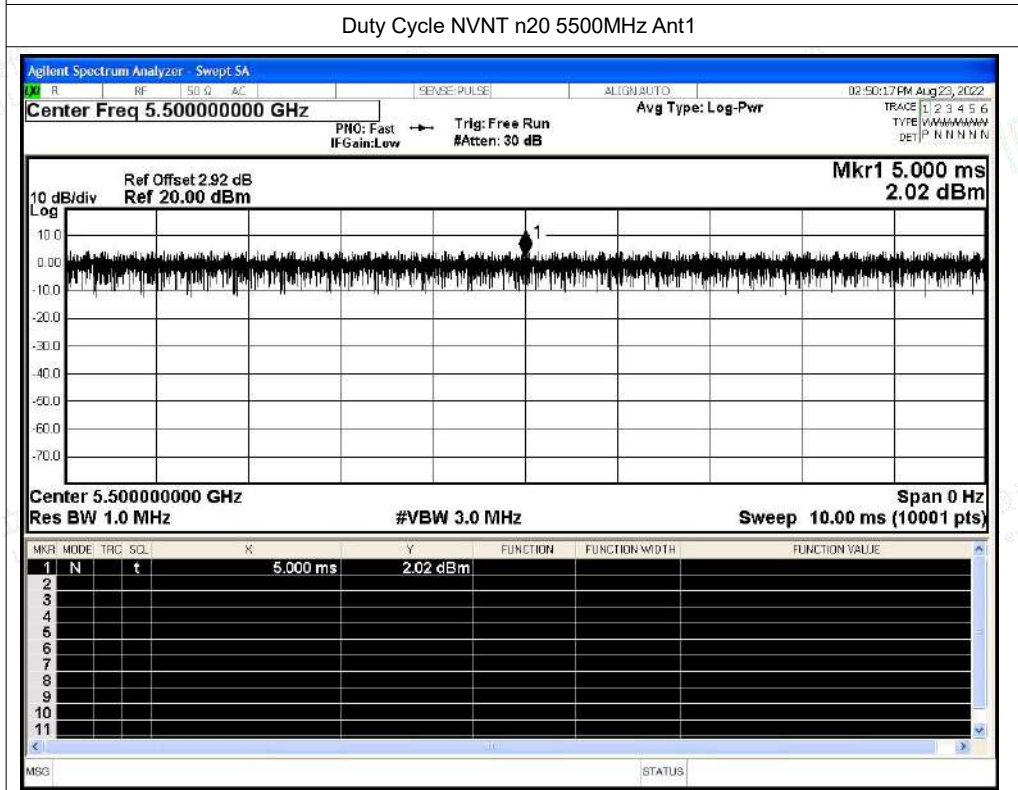
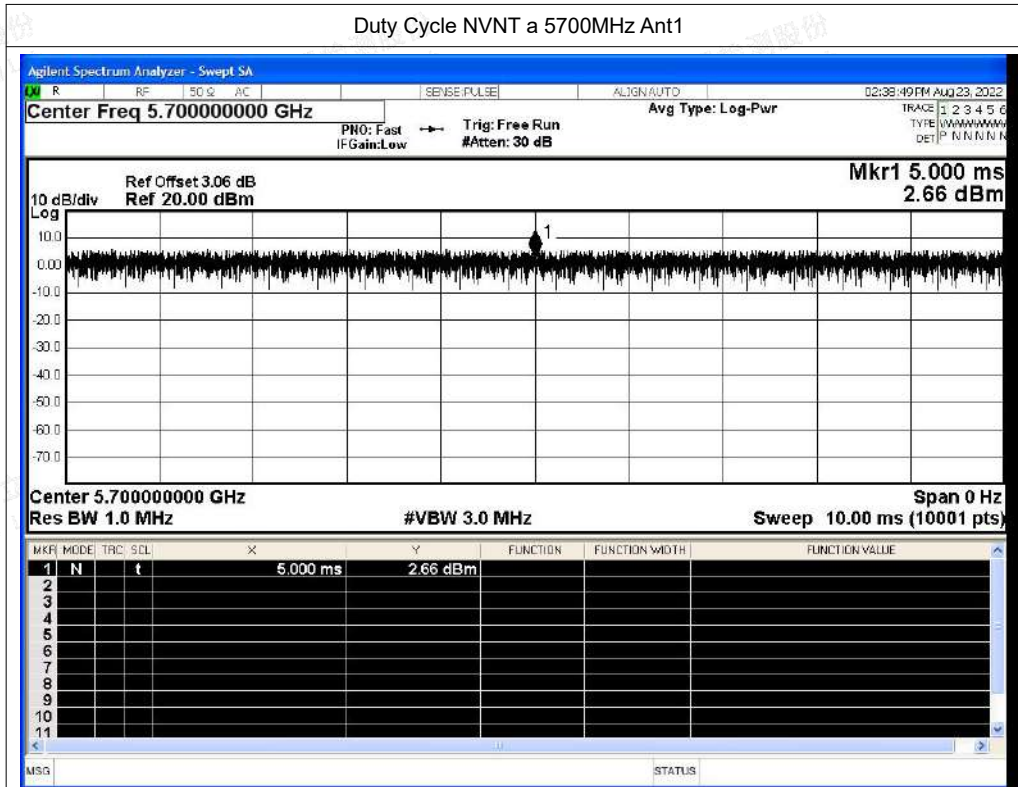
Test Graphs

Duty Cycle NVNT a 5500MHz Ant1



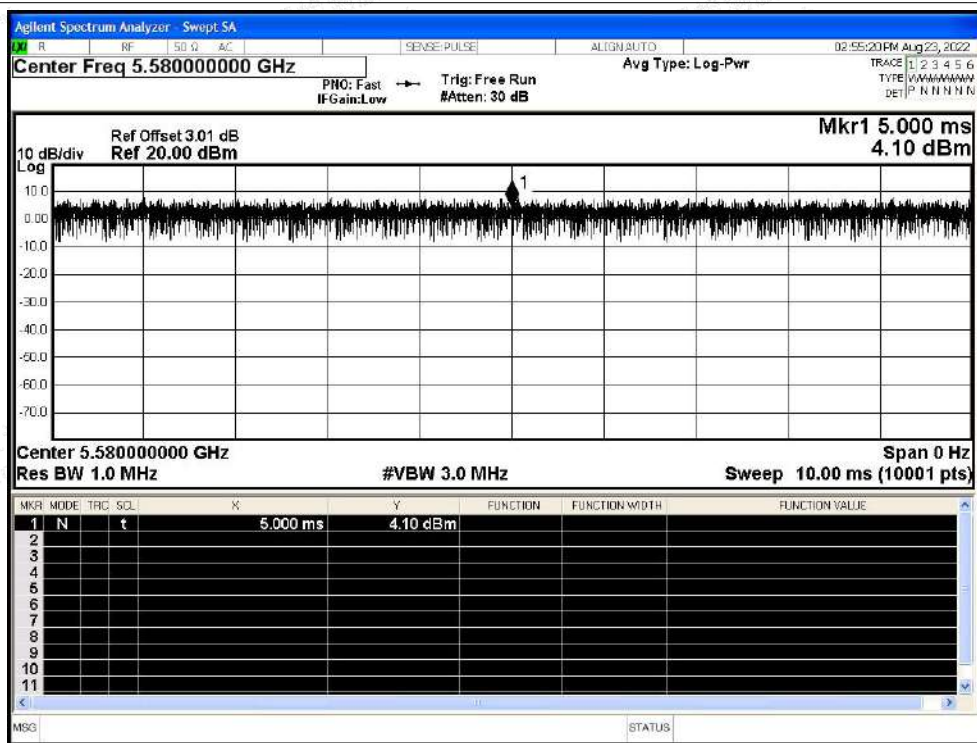
Duty Cycle NVNT a 5580MHz Ant1



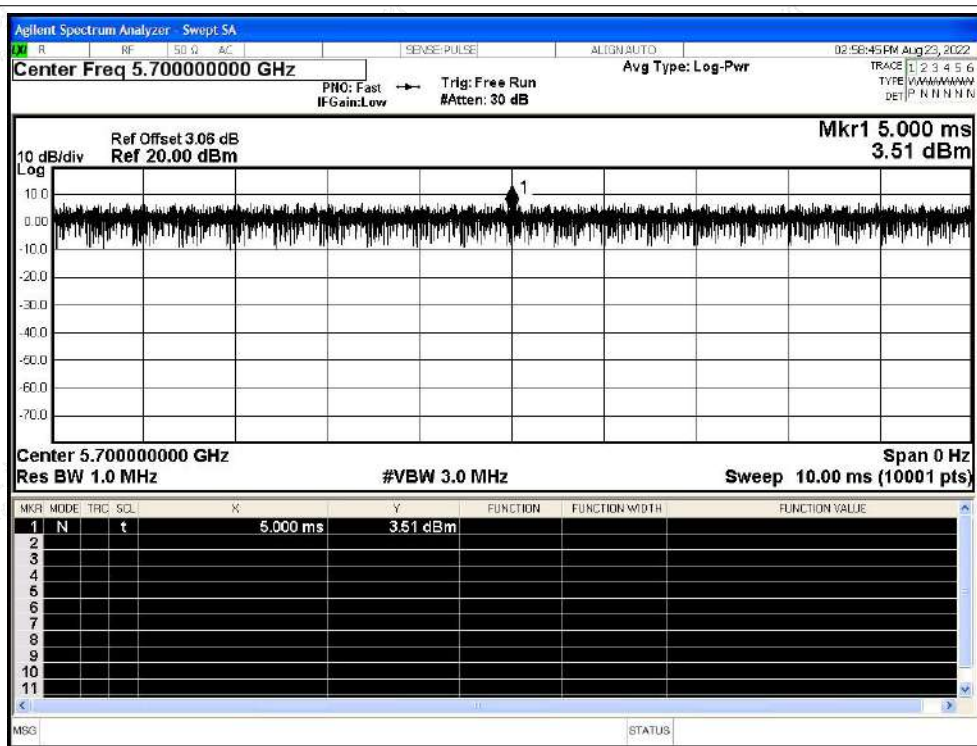




Duty Cycle NVNT n20 5580MHz Ant1

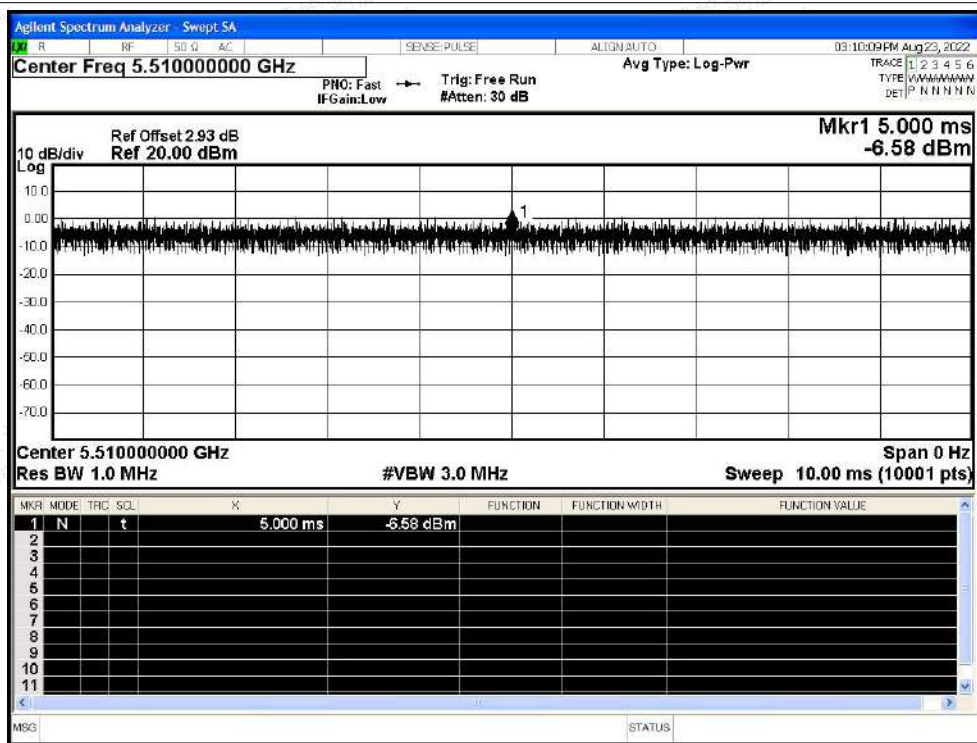


Duty Cycle NVNT n20 5700MHz Ant1

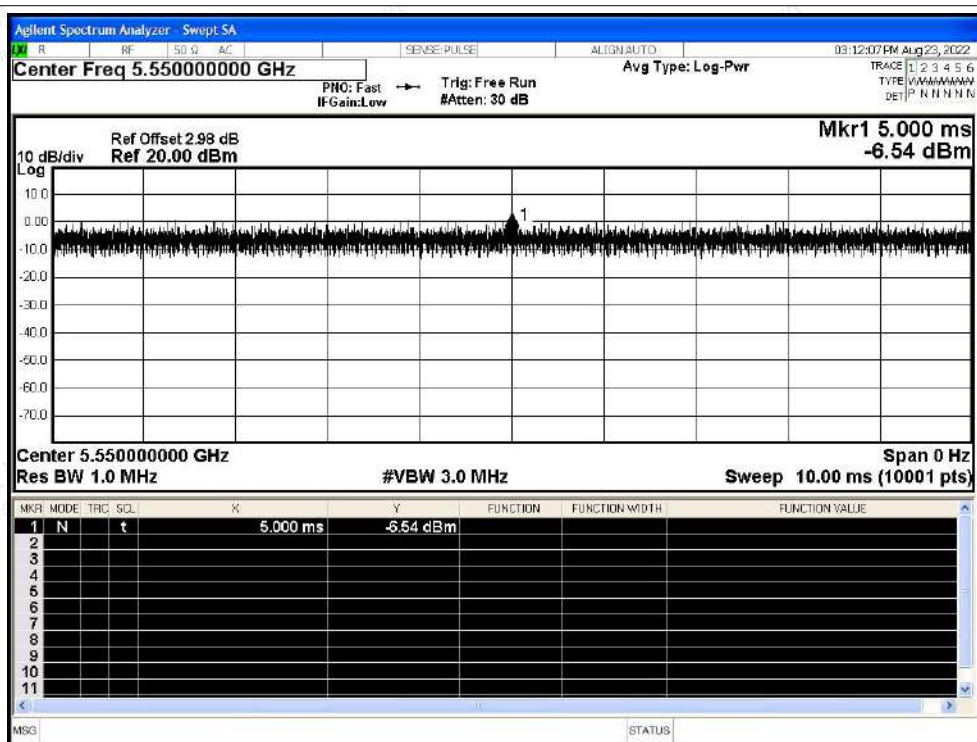




Duty Cycle NVNT n40 5510MHz Ant1

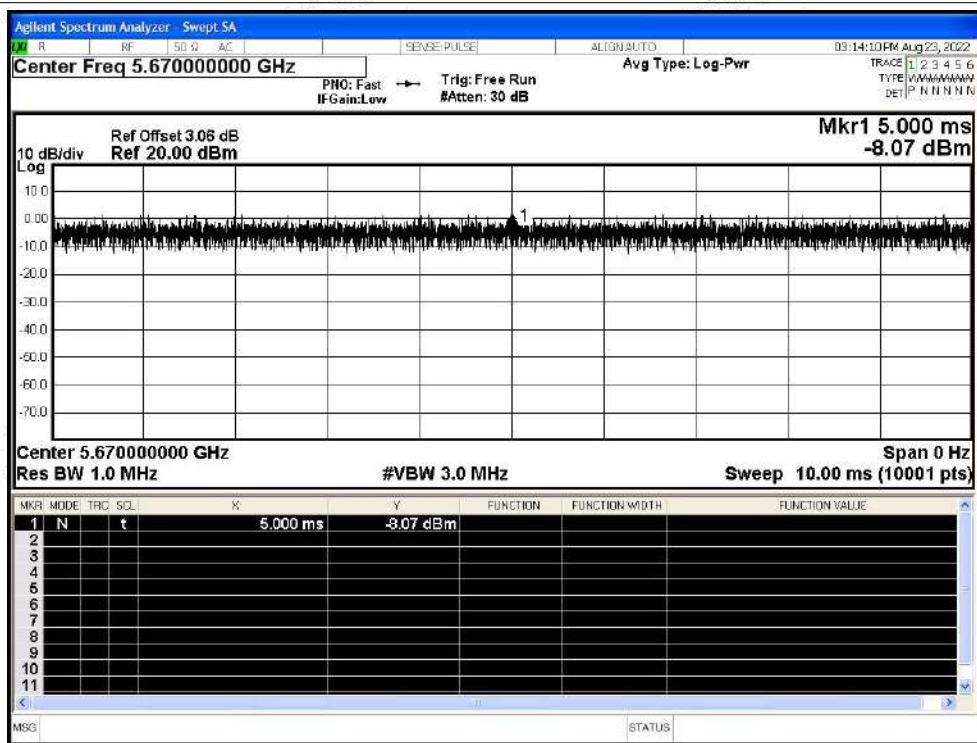


Duty Cycle NVNT n40 5550MHz Ant1

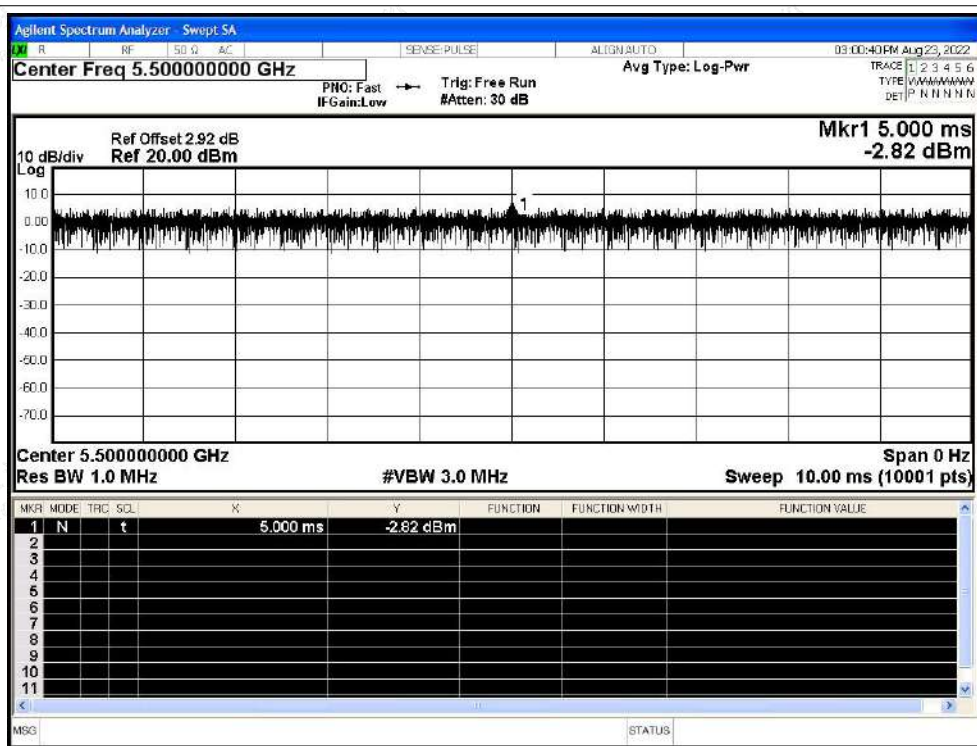




Duty Cycle NVNT n40 5670MHz Ant1

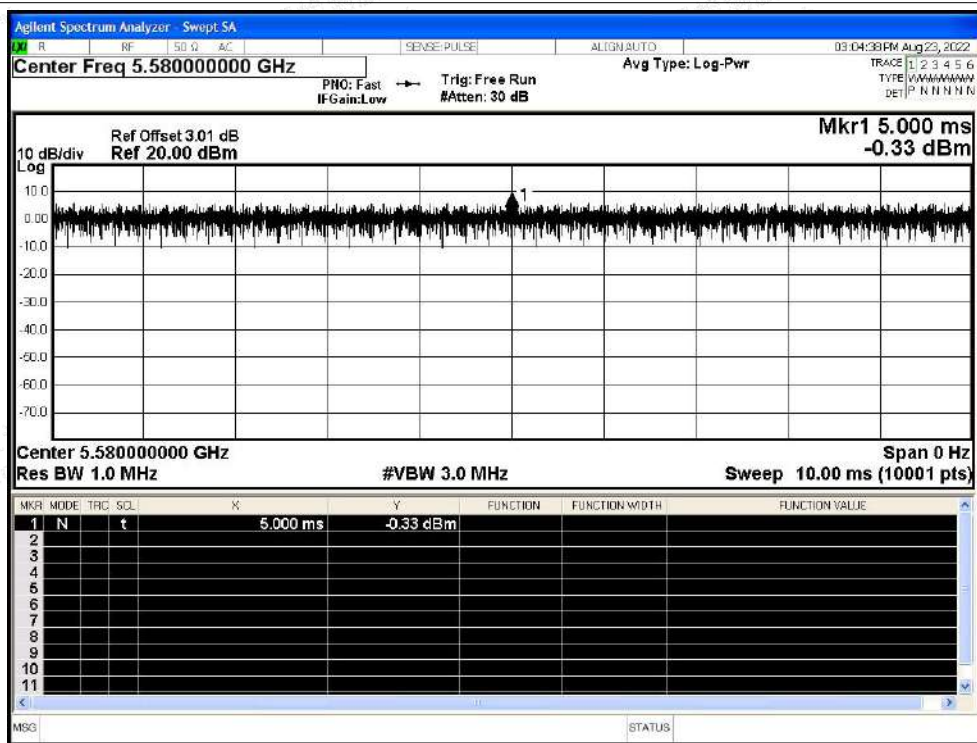


Duty Cycle NVNT ac20 5500MHz Ant1

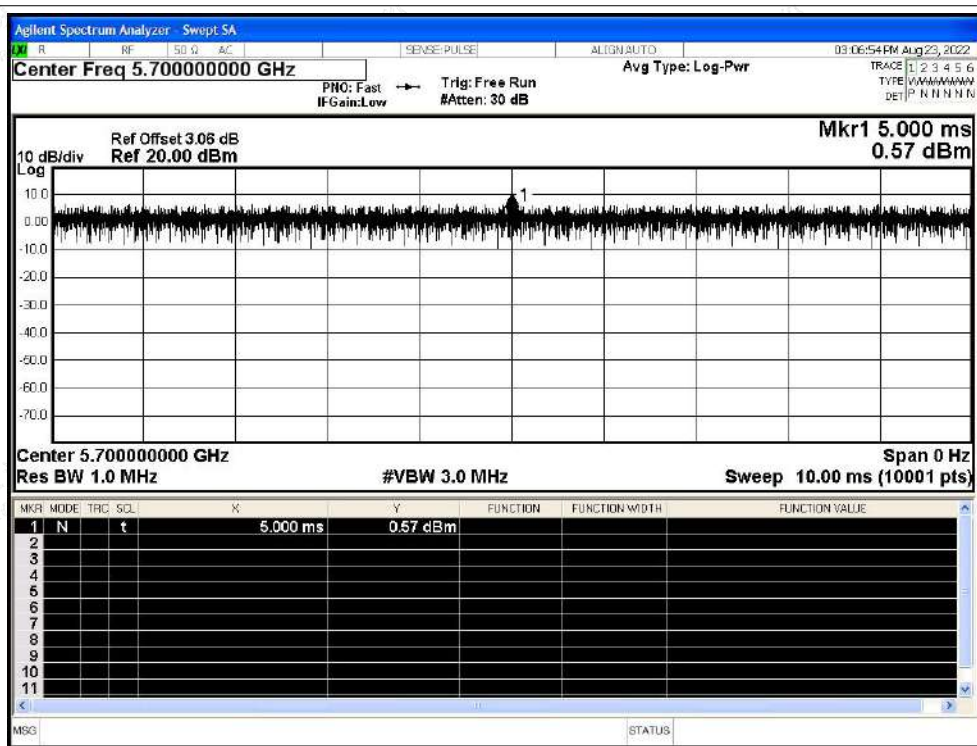




Duty Cycle NVNT ac20 5580MHz Ant1

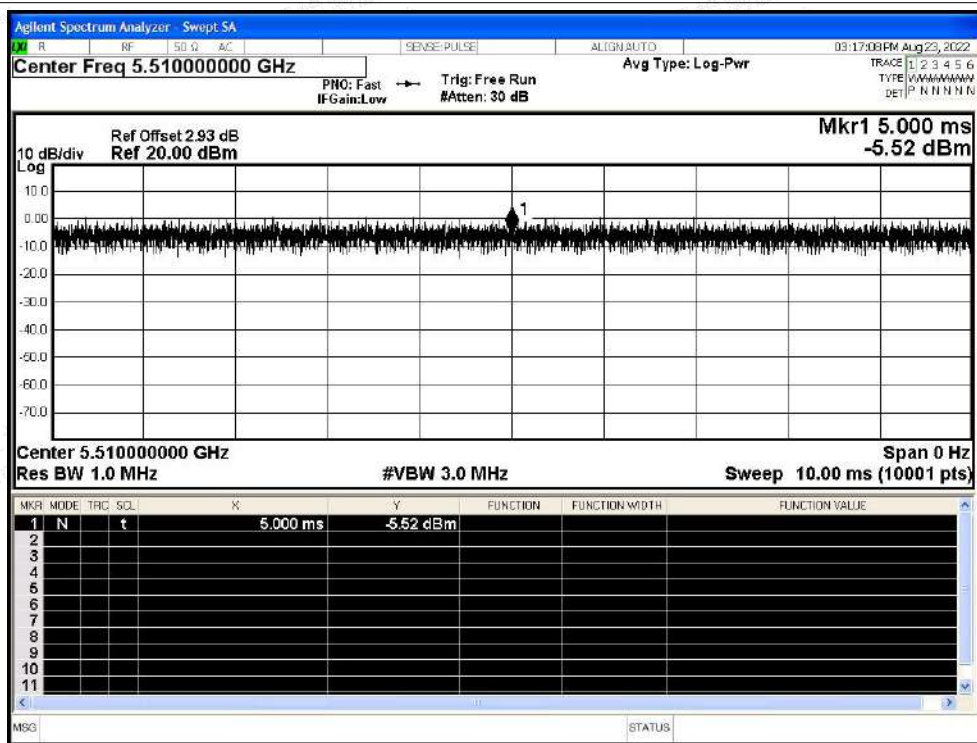


Duty Cycle NVNT ac20 5700MHz Ant1

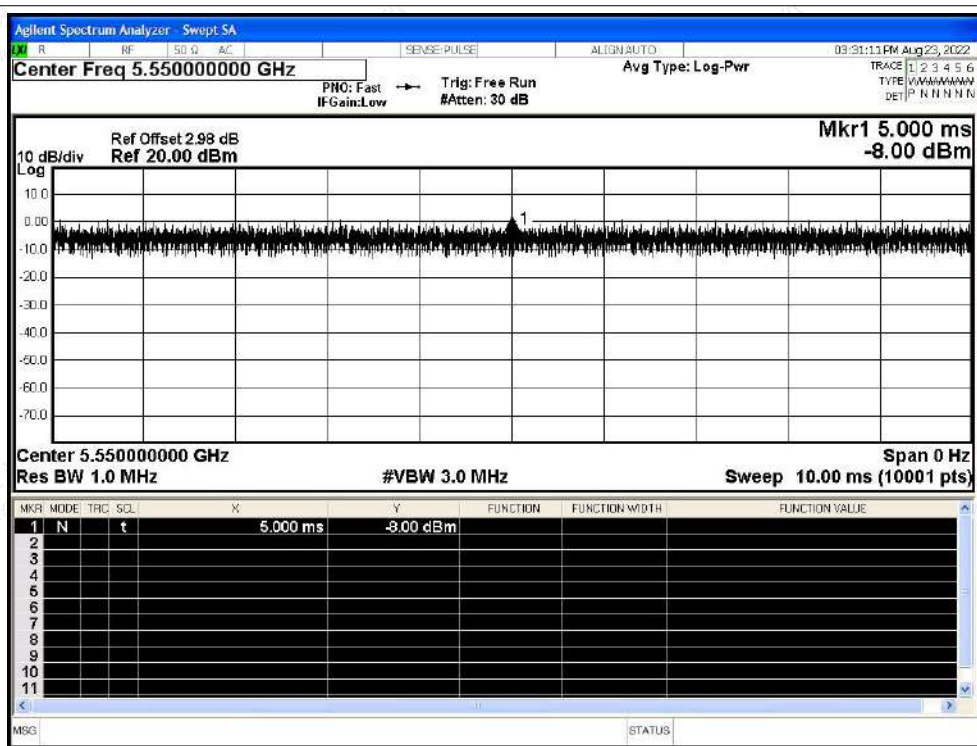




Duty Cycle NVNT ac40 5510MHz Ant1

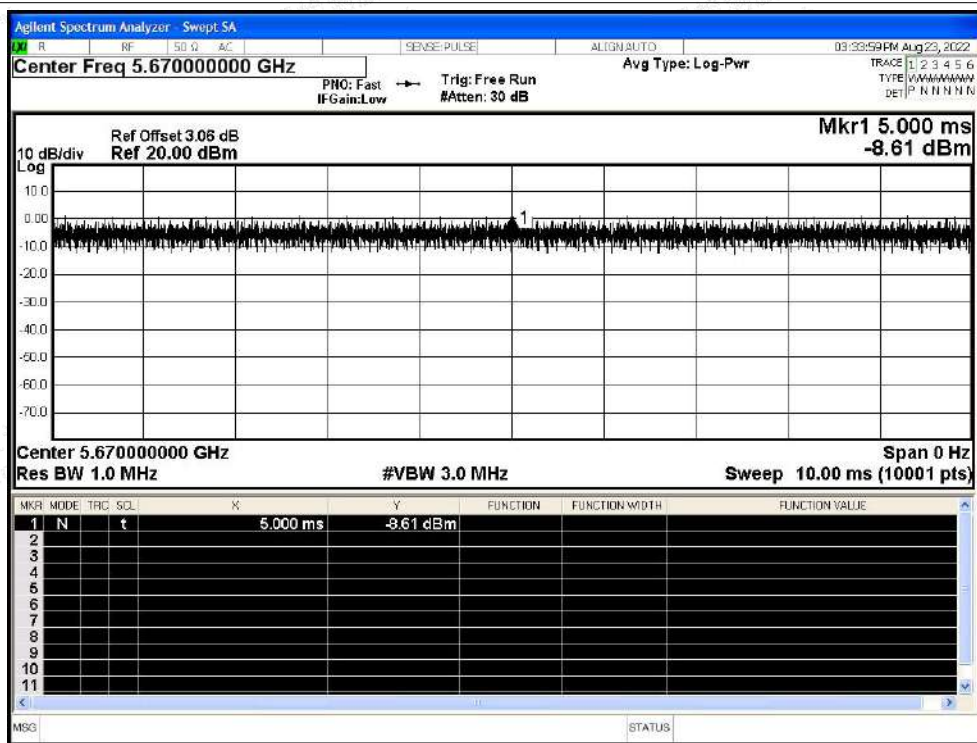


Duty Cycle NVNT ac40 5550MHz Ant1





Duty Cycle NVNT ac40 5670MHz Ant1



Duty Cycle NVNT ac80 5530MHz Ant1

