Appendix E

RF Test Data for 5.5GWIFI (Conducted Measurement)

Product Name: Wali Smart Pet Feeder With AI Camera

Test Model: P-LFP01

Environmental Conditions

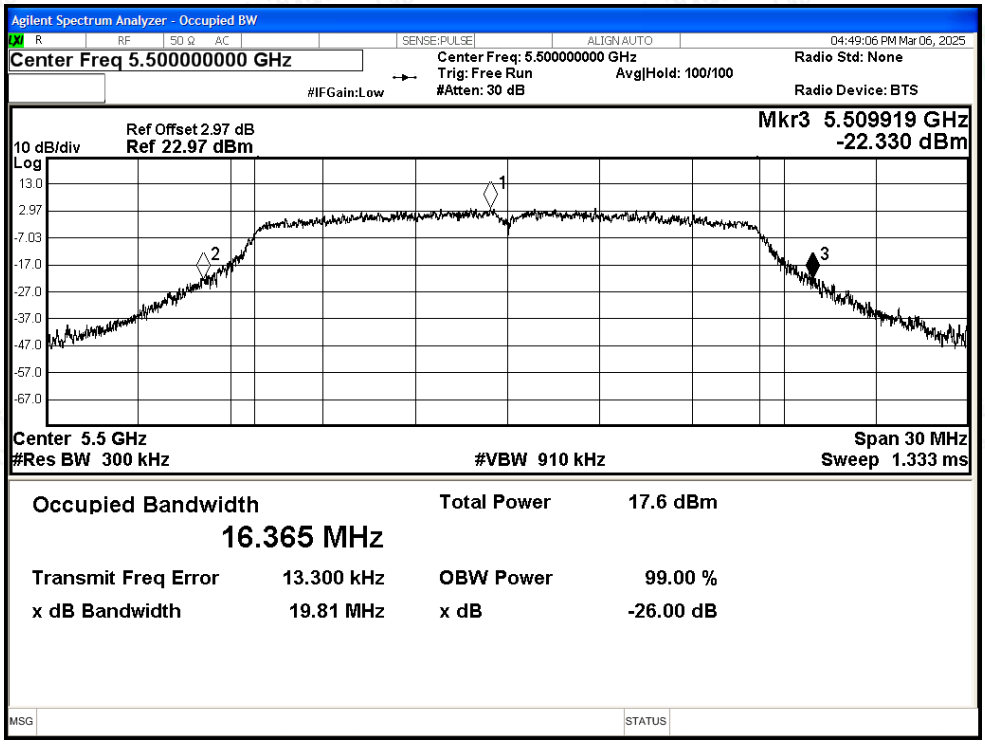
Temperature:	23.8° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Paddi Chen
Supervised by:	Nick Peng

E.1 -26dB Bandwidth

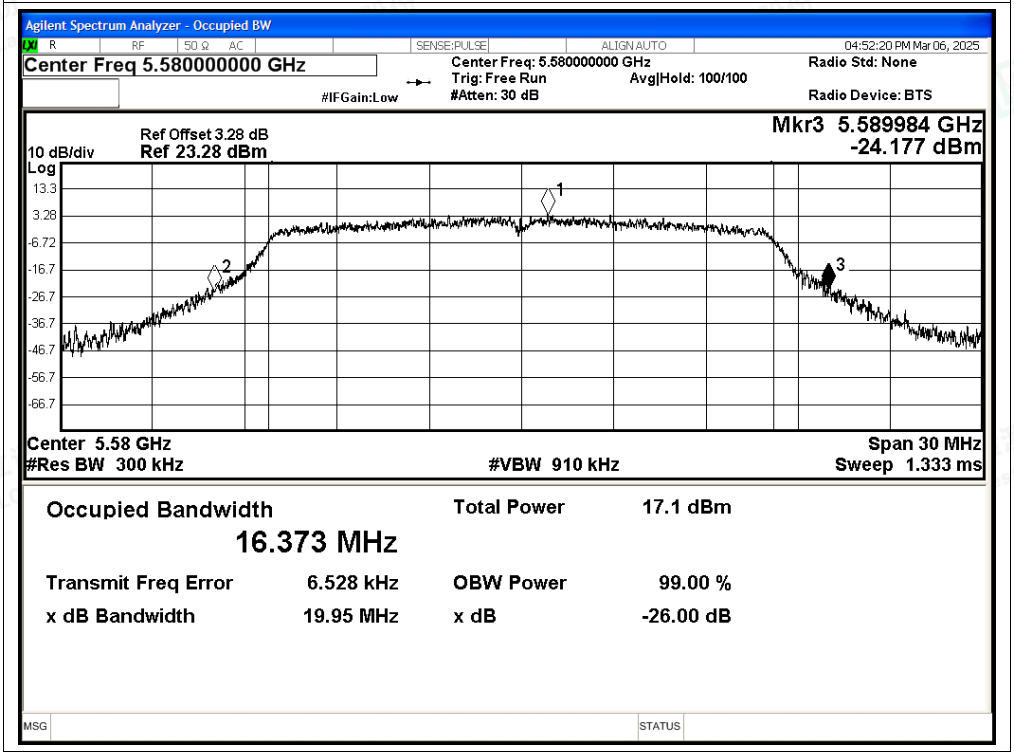
Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
NVNT	a	5500	Ant1	19.811	---	Pass
NVNT	a	5580	Ant1	19.954	---	Pass
NVNT	a	5700	Ant1	19.884	---	Pass
NVNT	n20	5500	Ant1	21.018	---	Pass
NVNT	n20	5580	Ant1	21.182	---	Pass
NVNT	n20	5700	Ant1	20.918	---	Pass

Test Graphs

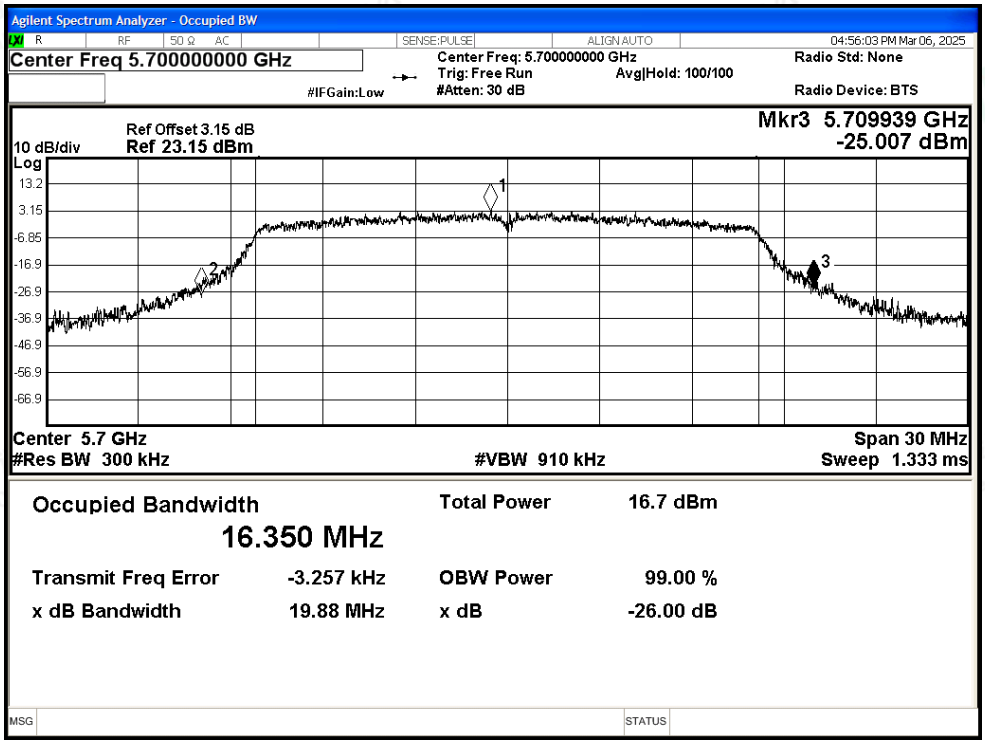
-26dB Bandwidth NVNT a 5500MHz Ant1



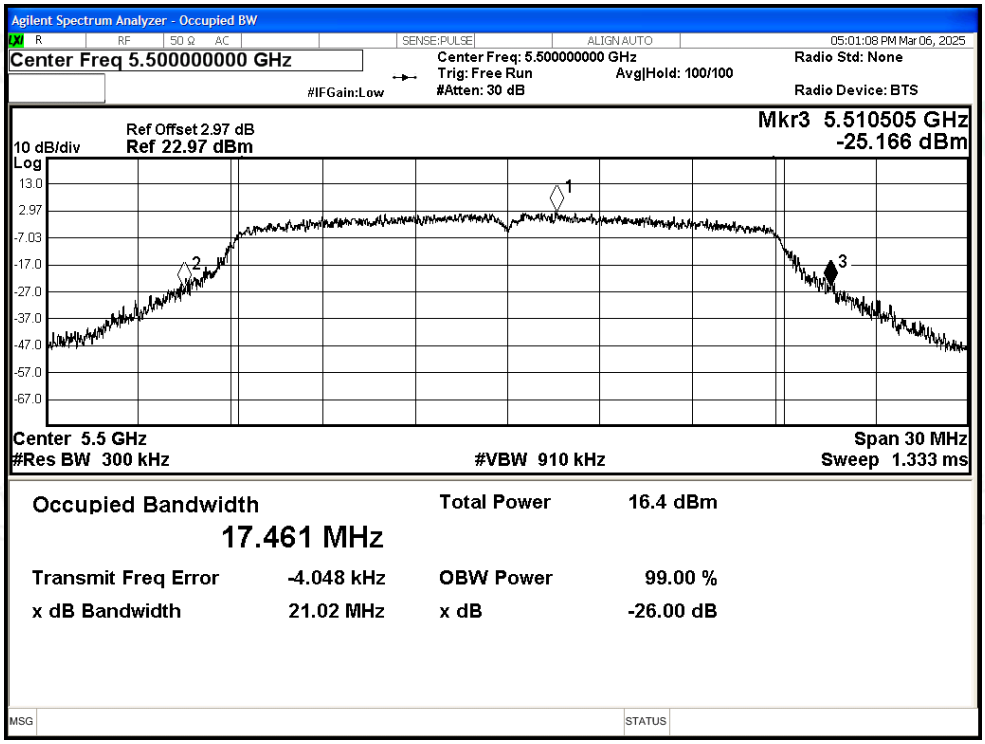
-26dB Bandwidth NVNT a 5580MHz Ant1



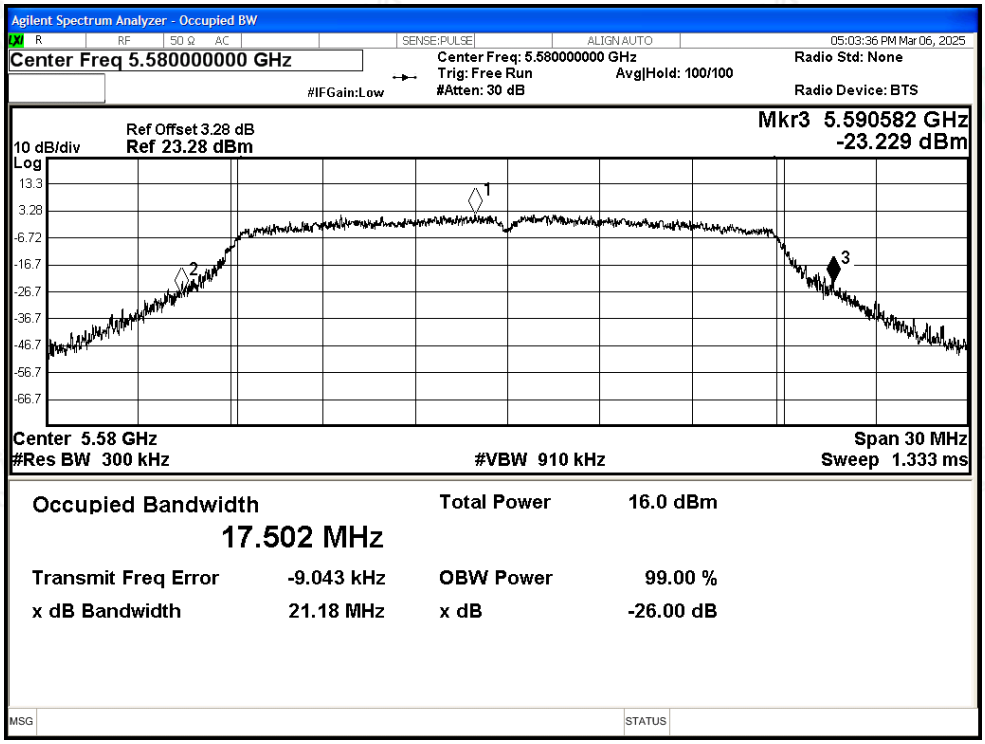
-26dB Bandwidth NVNT a 5700MHz Ant1



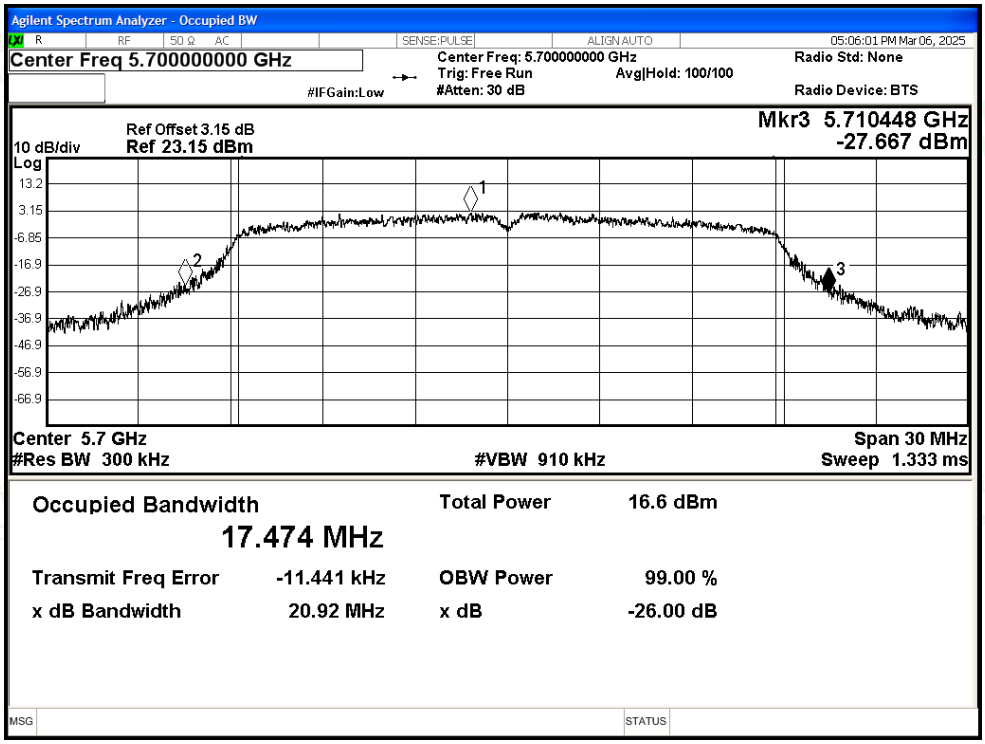
-26dB Bandwidth NVNT n20 5500MHz Ant1



-26dB Bandwidth NVNT n20 5580MHz Ant1



-26dB Bandwidth NVNT n20 5700MHz Ant1



E.2 Maximum Conducted Output Power

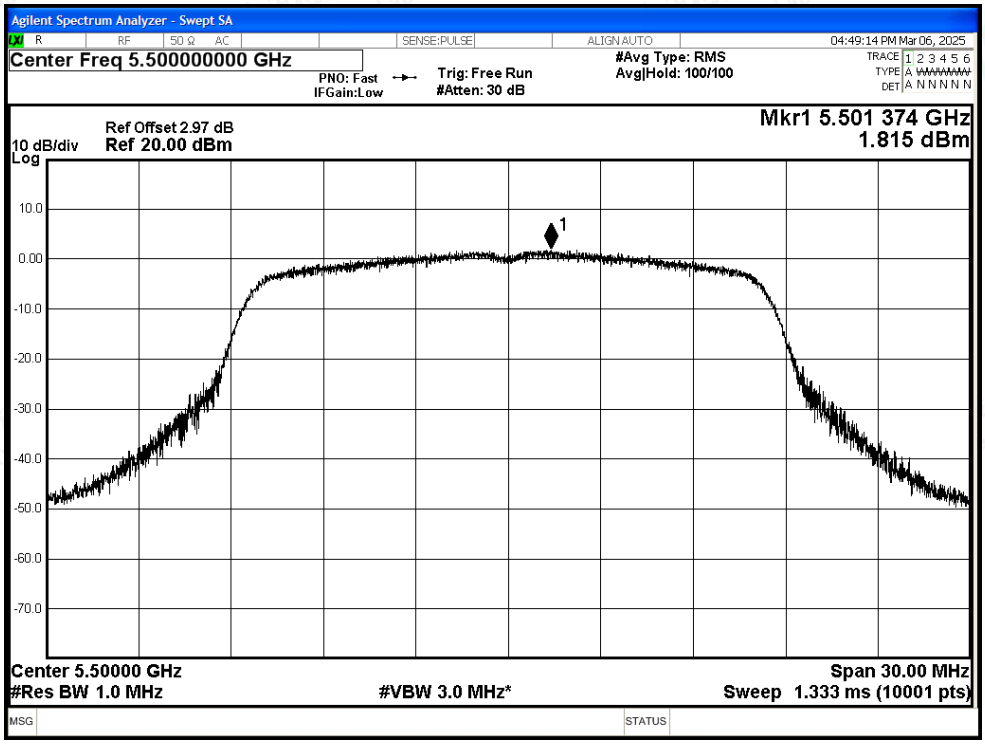
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5500	Ant1	11.1	0.96	12.06	24	Pass
NVNT	a	5580	Ant1	10.97	0.96	11.93	24	Pass
NVNT	a	5700	Ant1	10.21	0.96	11.17	24	Pass
NVNT	n20	5500	Ant1	9.88	1.02	10.9	24	Pass
NVNT	n20	5580	Ant1	9.57	1.02	10.59	24	Pass
NVNT	n20	5700	Ant1	9.93	1.02	10.95	24	Pass

E.3 Maximum Power Spectral Density Level

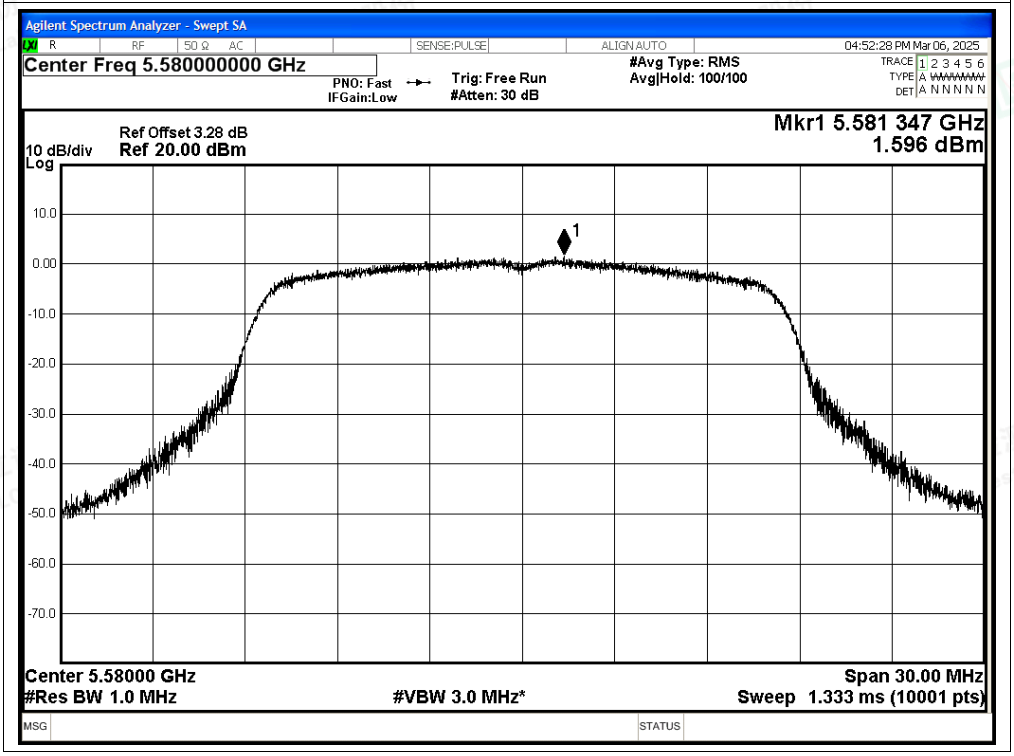
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/MHz)	Duty Factor (dB)	Total PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	a	5500	Ant1	1.82	0.96	2.78	11	Pass
NVNT	a	5580	Ant1	1.6	0.96	2.56	11	Pass
NVNT	a	5700	Ant1	0.97	0.96	1.93	11	Pass
NVNT	n20	5500	Ant1	0.97	1.02	1.99	11	Pass
NVNT	n20	5580	Ant1	0.06	1.02	1.08	11	Pass
NVNT	n20	5700	Ant1	0.54	1.02	1.56	11	Pass

Test Graphs

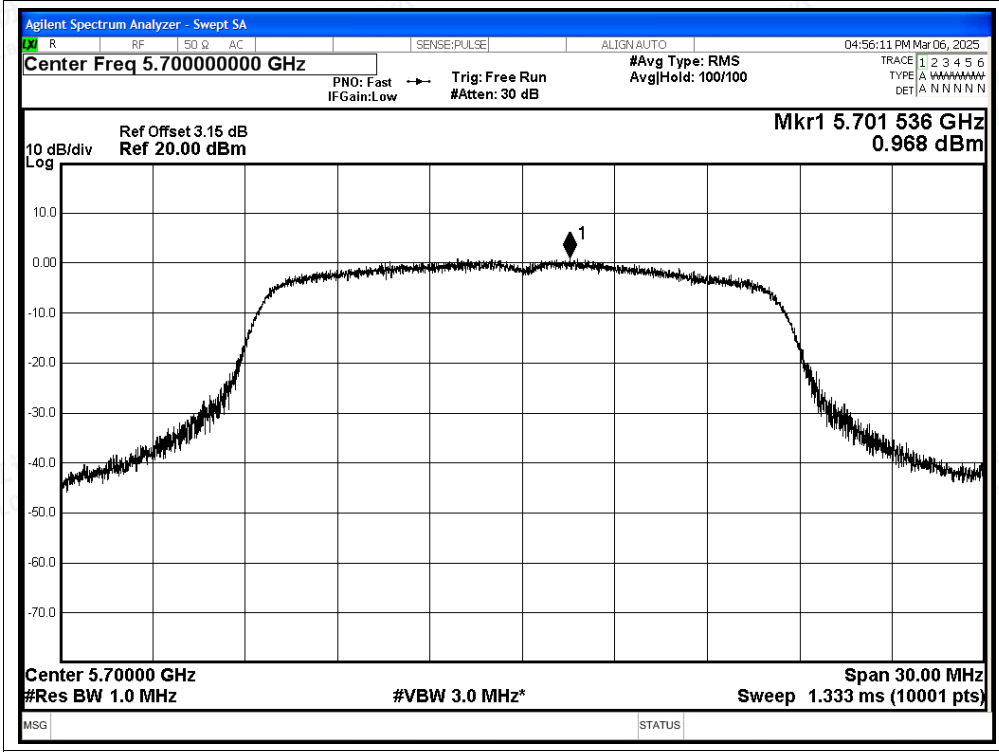
PSD NVNT a 5500MHz Ant1



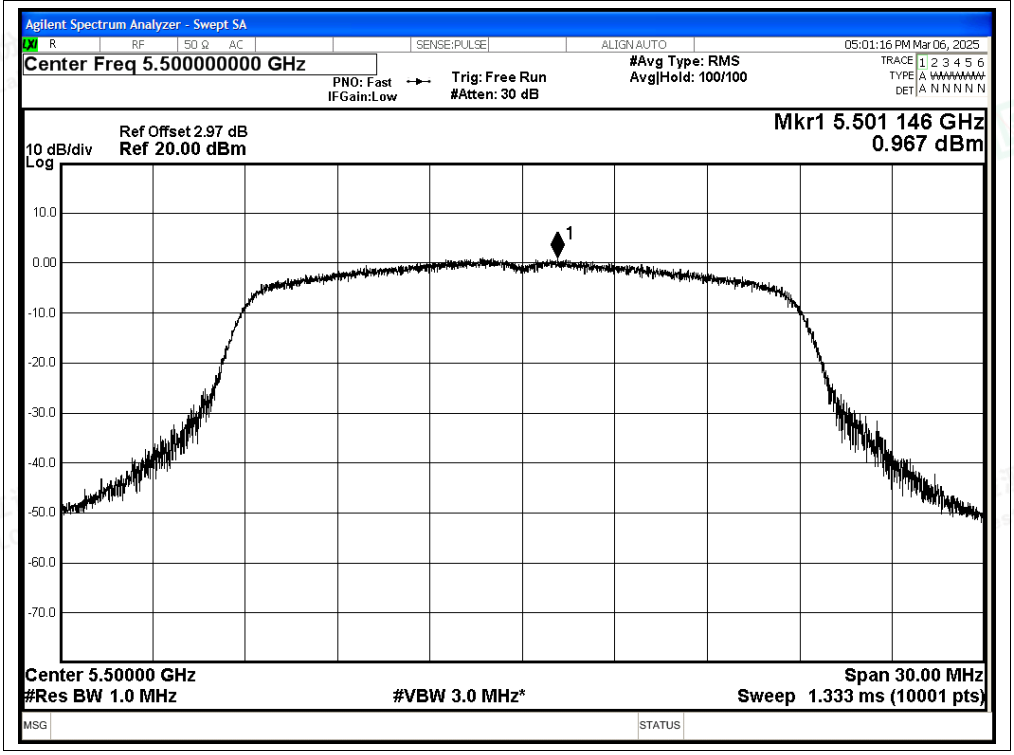
PSD NVNT a 5580MHz Ant1



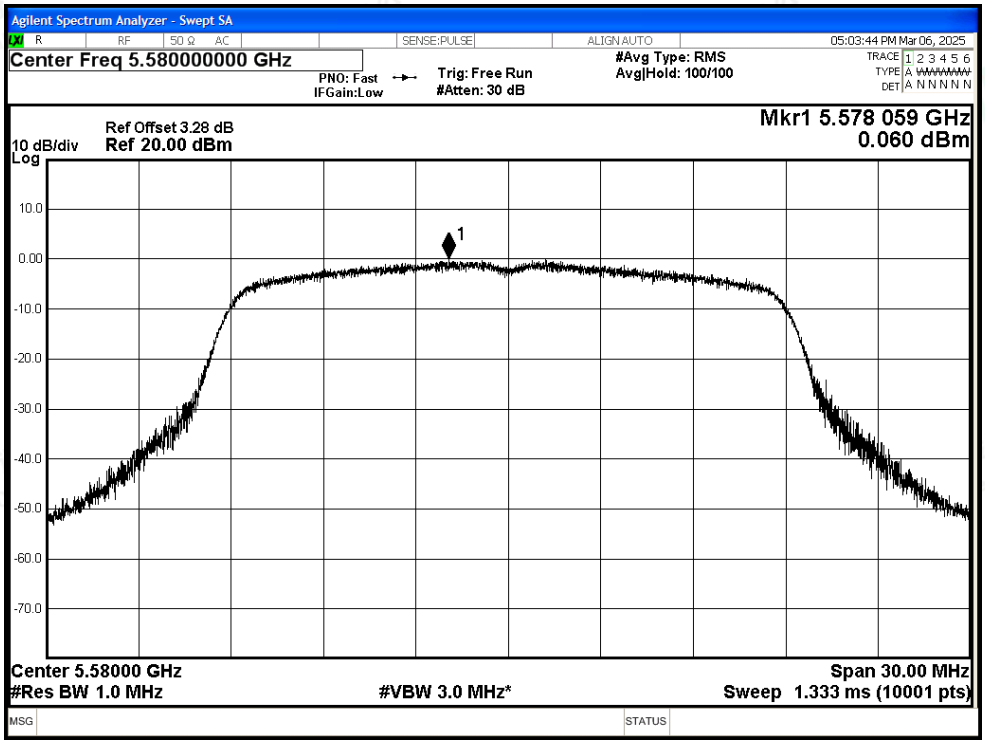
PSD NVNT a 5700MHz Ant1



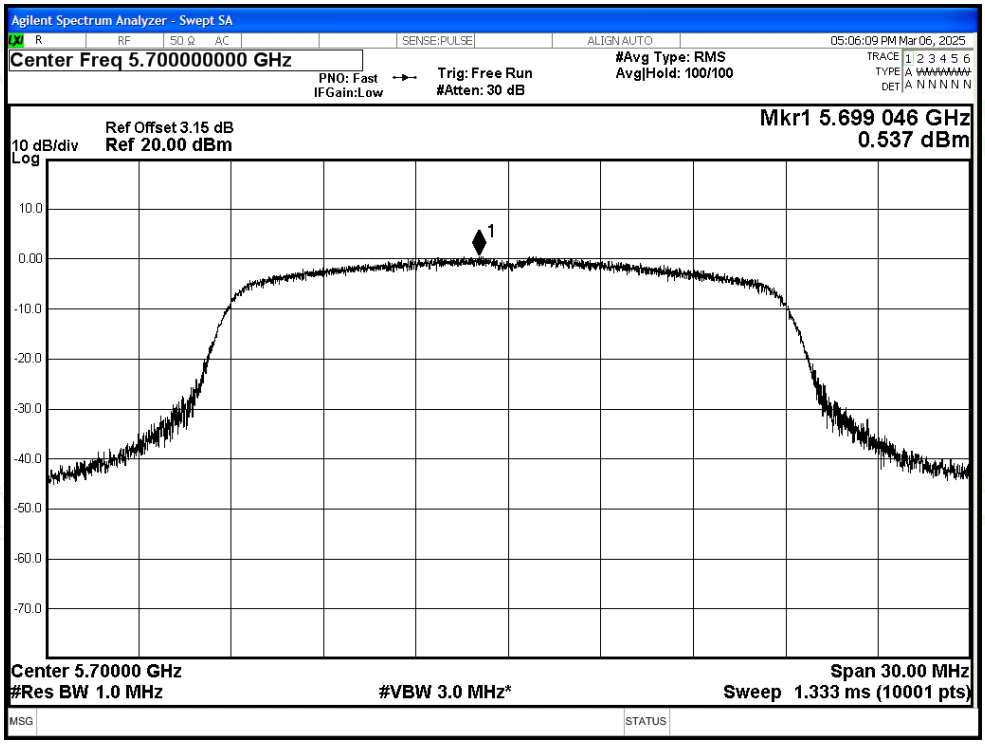
PSD NVNT n20 5500MHz Ant1



PSD NVNT n20 5580MHz Ant1



PSD NVNT n20 5700MHz Ant1

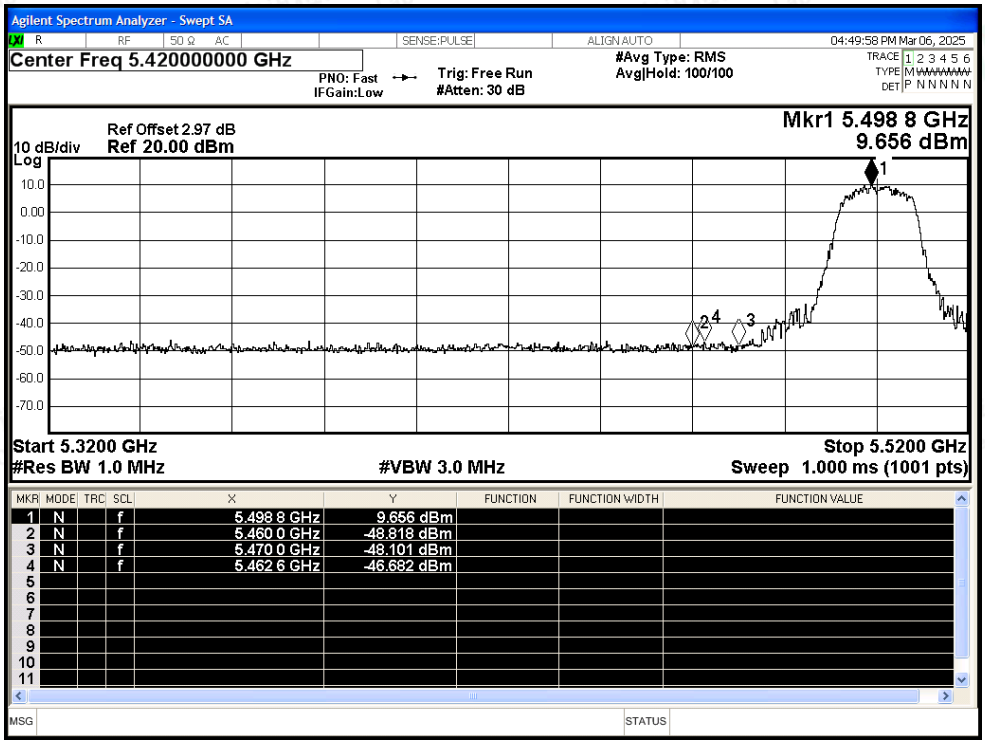


E.4 Restrict Band

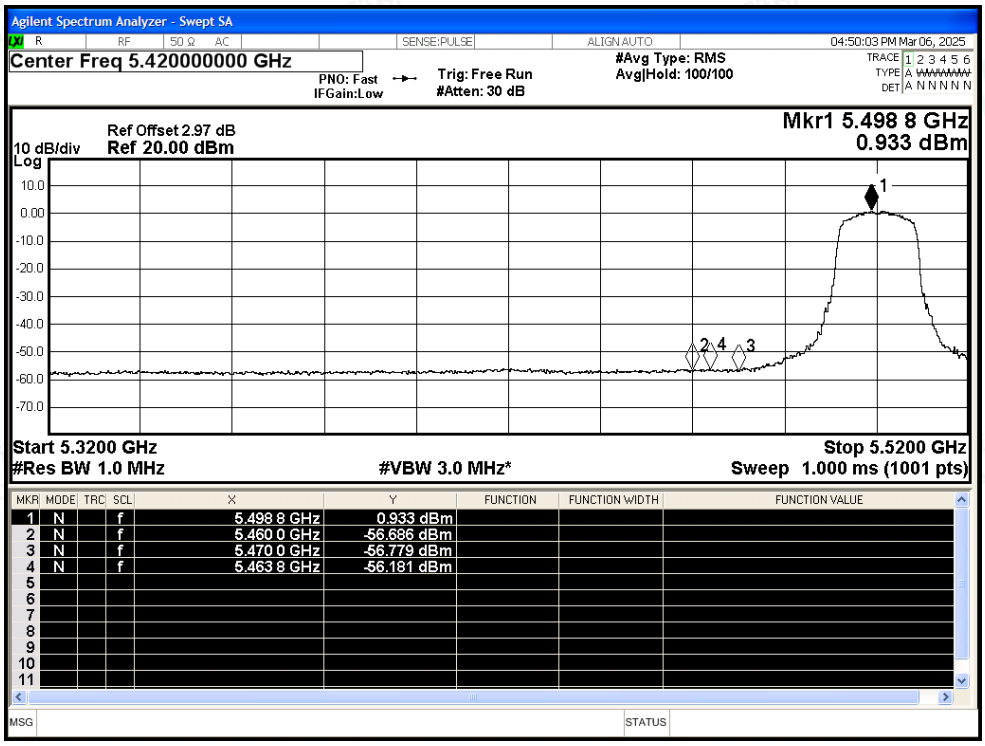
Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	a	5500	Ant1	5460	-48.82	5.26	-	51.67	Peak	68.2	Pass
NVNT	a	5500	Ant1	5460	-56.69	5.26	0.96	44.76	Average	54	Pass
NVNT	a	5500	Ant1	5462.6	-46.68	5.26	-	53.81	Peak	68.2	Pass
NVNT	a	5500	Ant1	5463.8	-56.18	5.26	0.96	45.27	Average	54	Pass
NVNT	a	5500	Ant1	5470	-48.1	5.26	-	52.39	Peak	68.2	Pass
NVNT	a	5500	Ant1	5470	-56.78	5.26	0.96	44.67	Average	54	Pass
NVNT	a	5700	Ant1	5725	-45.56	5.26	-	54.93	Peak	68.2	Pass
NVNT	a	5700	Ant1	5725	-55.37	5.26	0.96	46.08	Average	54	Pass
NVNT	a	5700	Ant1	5735	-48.69	5.26	-	51.80	Peak	68.2	Pass
NVNT	a	5700	Ant1	5735	-56.25	5.26	0.96	45.20	Average	54	Pass
NVNT	n20	5500	Ant1	5460	-48.94	5.26	-	51.55	Peak	68.2	Pass
NVNT	n20	5500	Ant1	5460	-56.89	5.26	1.02	44.62	Average	54	Pass
NVNT	n20	5500	Ant1	5462.2	-46.1	5.26	-	54.39	Peak	68.2	Pass
NVNT	n20	5500	Ant1	5468.4	-56.09	5.26	1.02	45.42	Average	54	Pass
NVNT	n20	5500	Ant1	5470	-47.36	5.26	-	53.13	Peak	68.2	Pass
NVNT	n20	5500	Ant1	5470	-57.47	5.26	1.02	44.04	Average	54	Pass
NVNT	n20	5700	Ant1	5725	-46.56	5.26	-	53.93	Peak	68.2	Pass
NVNT	n20	5700	Ant1	5725	-54.94	5.26	1.02	46.57	Average	54	Pass
NVNT	n20	5700	Ant1	5725.4	-44.75	5.26	-	55.74	Peak	68.2	Pass
NVNT	n20	5700	Ant1	5725	-54.94	5.26	1.02	46.57	Average	54	Pass
NVNT	n20	5700	Ant1	5735	-48.95	5.26	-	51.54	Peak	68.2	Pass
NVNT	n20	5700	Ant1	5735	-56.64	5.26	1.02	44.87	Average	54	Pass

Test Graphs

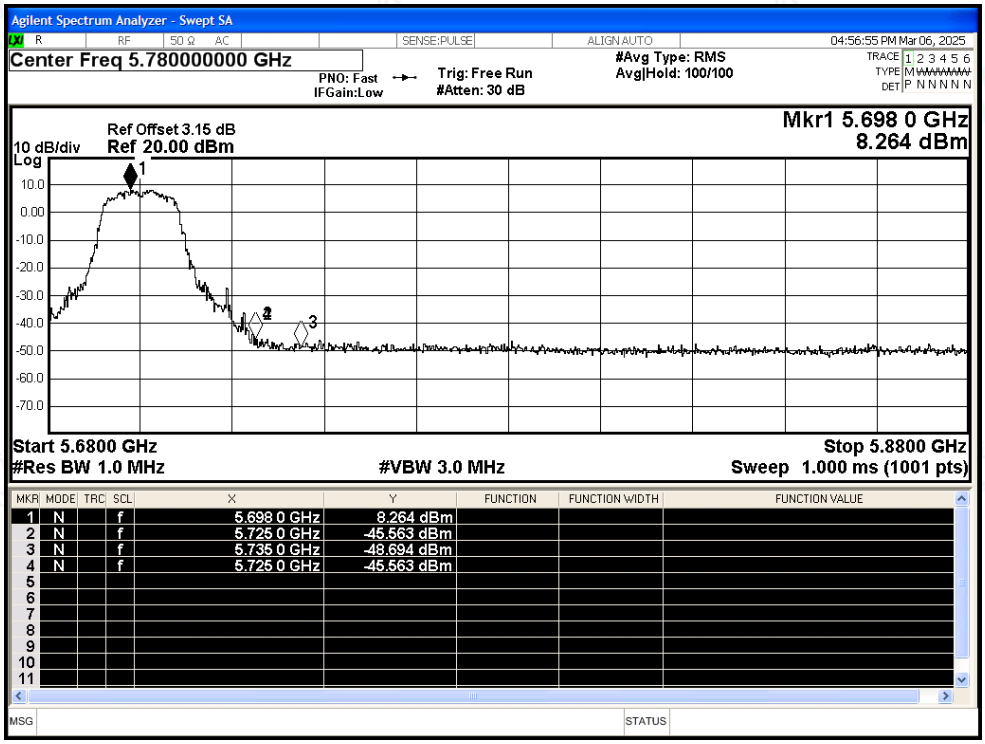
Restrict Band NVNT a 5500MHz Ant1 Peak



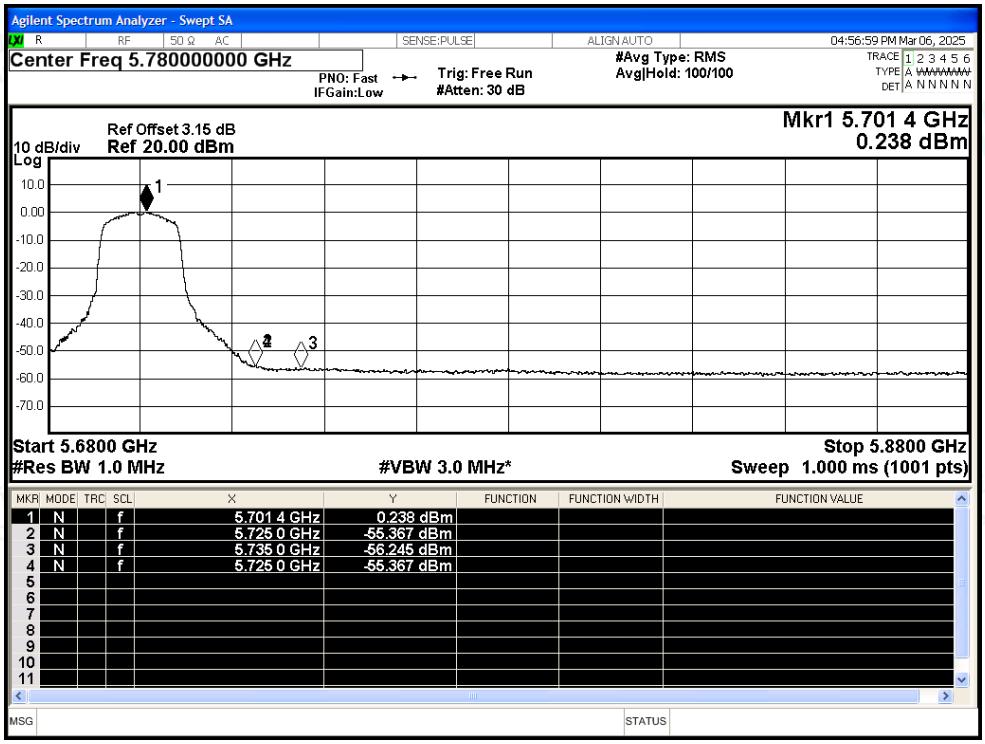
Restrict Band NVNT a 5500MHz Ant1 Average



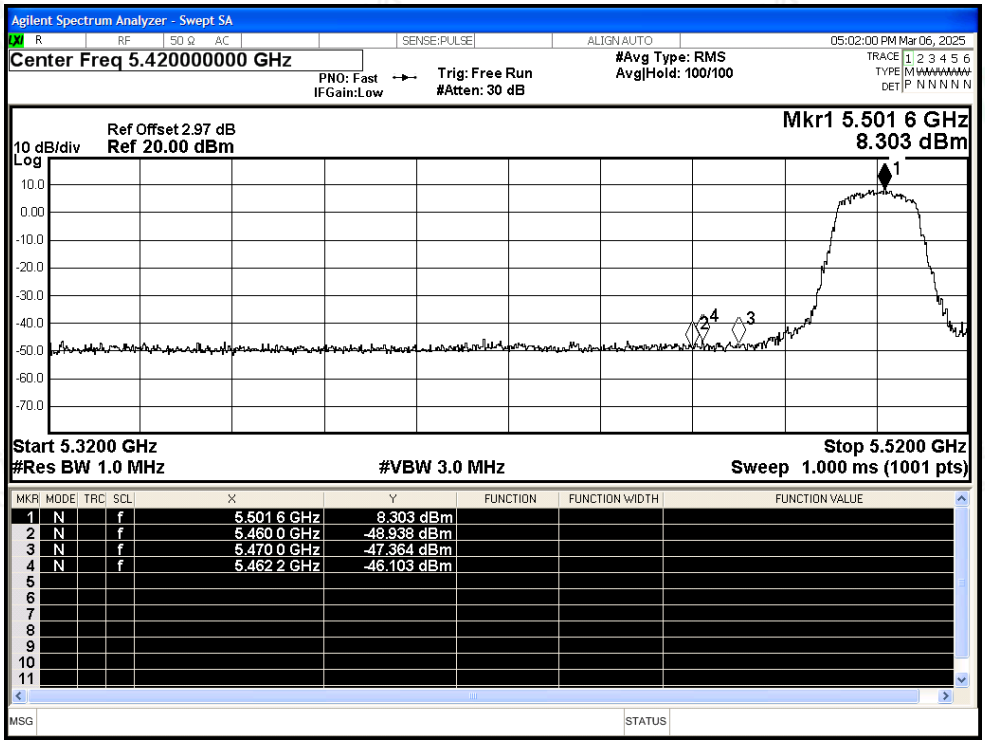
Restrict Band NVNT a 5700MHz Ant1 Peak



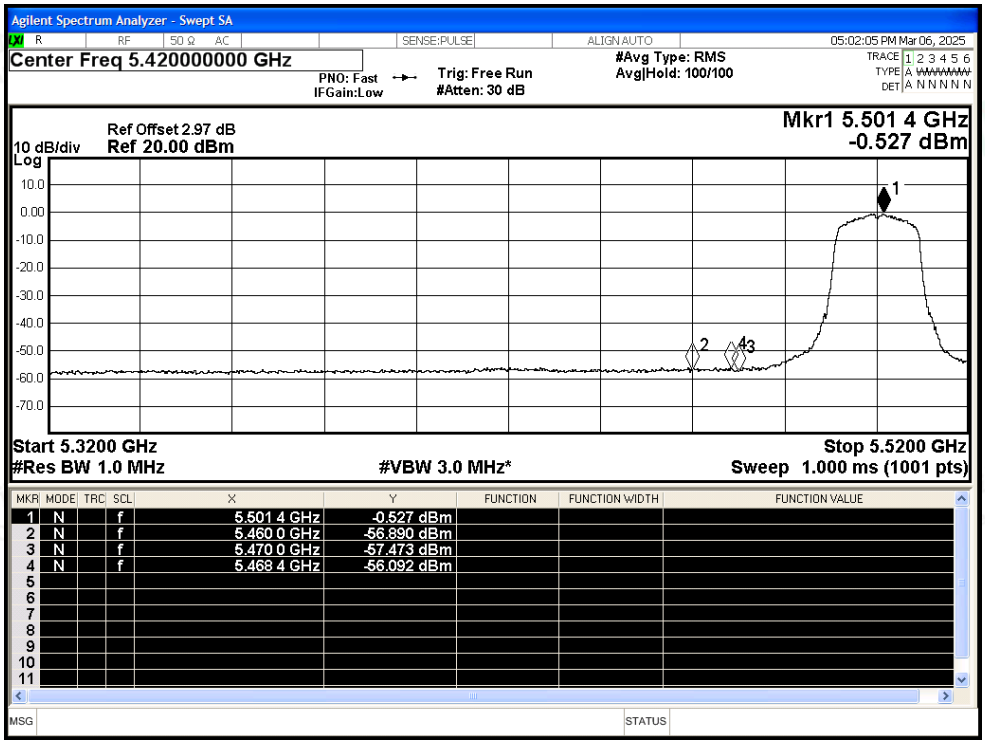
Restrict Band NVNT a 5700MHz Ant1 Average



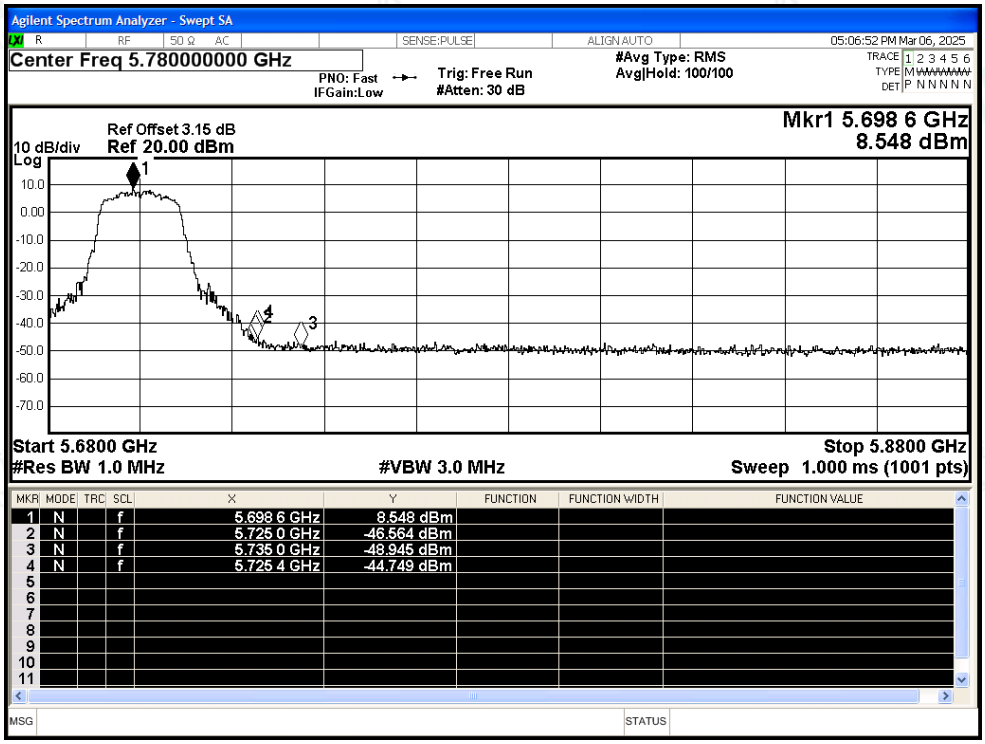
Restrict Band NVNT n20 5500MHz Ant1 Peak



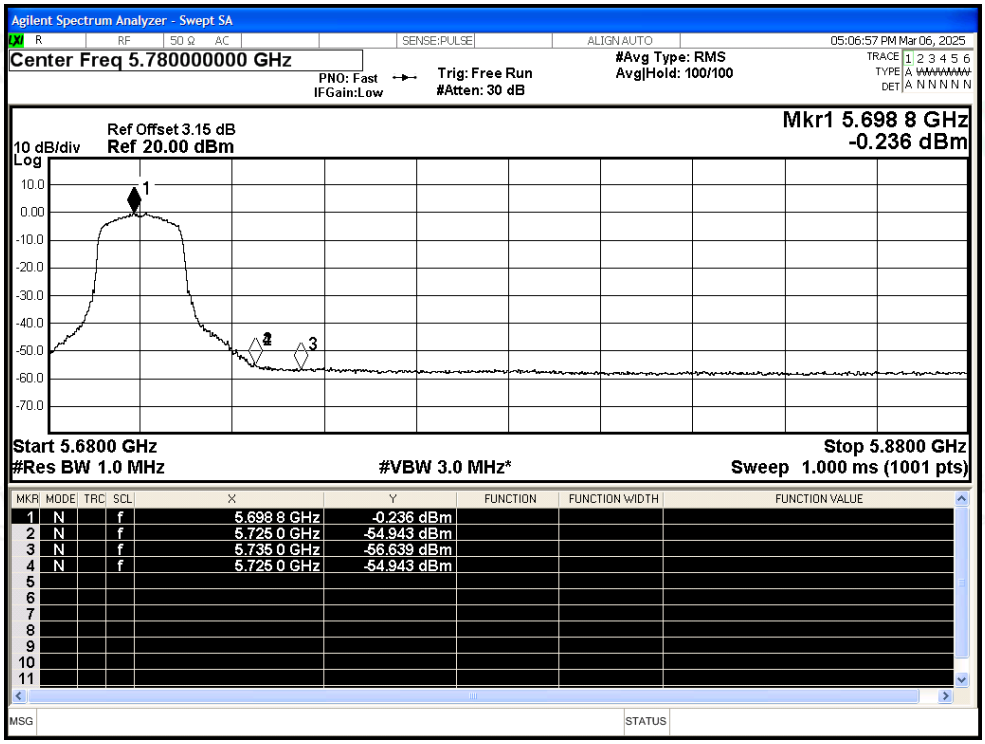
Restrict Band NVNT n20 5500MHz Ant1 Average



Restrict Band NVNT n20 5700MHz Ant1 Peak



Restrict Band NVNT n20 5700MHz Ant1 Average

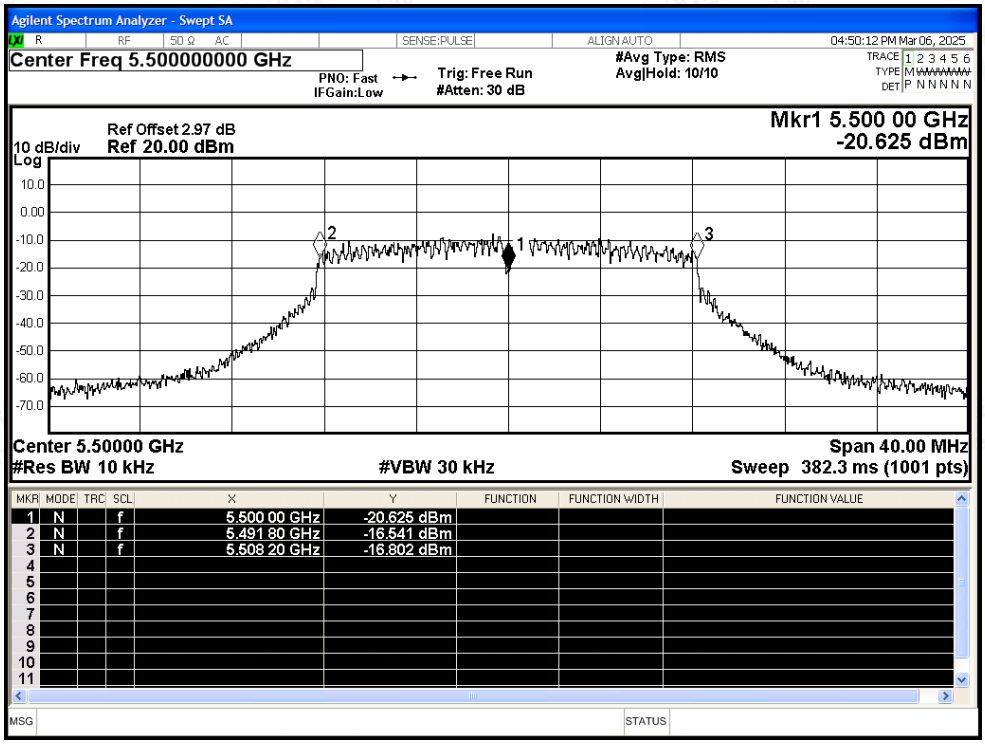


E.5 Frequency Stability

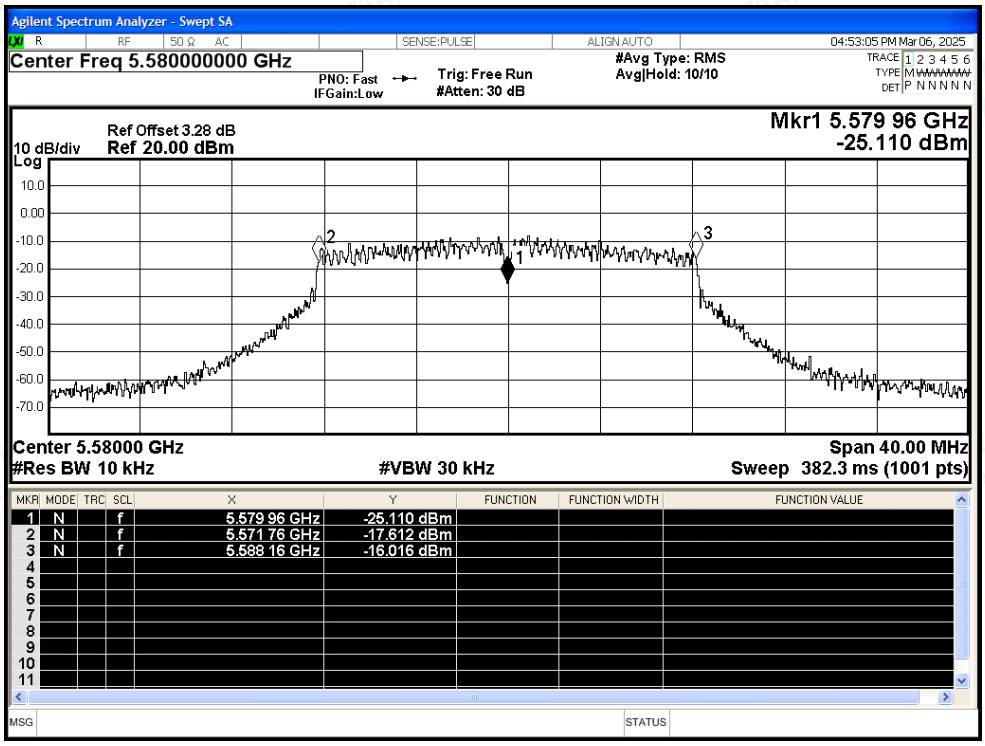
Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	a	5500	Ant1	5500	0	0	25	Pass
NVNT	a	5580	Ant1	5579.96	-40000	-7.17	25	Pass
NVNT	a	5700	Ant1	5699.96	-40000	-7.02	25	Pass
NVNT	n20	5500	Ant1	5499.9	-100000	-18.18	25	Pass
NVNT	n20	5580	Ant1	5580	0	0	25	Pass
NVNT	n20	5700	Ant1	5699.9	-100000	-17.54	25	Pass

Test Graphs

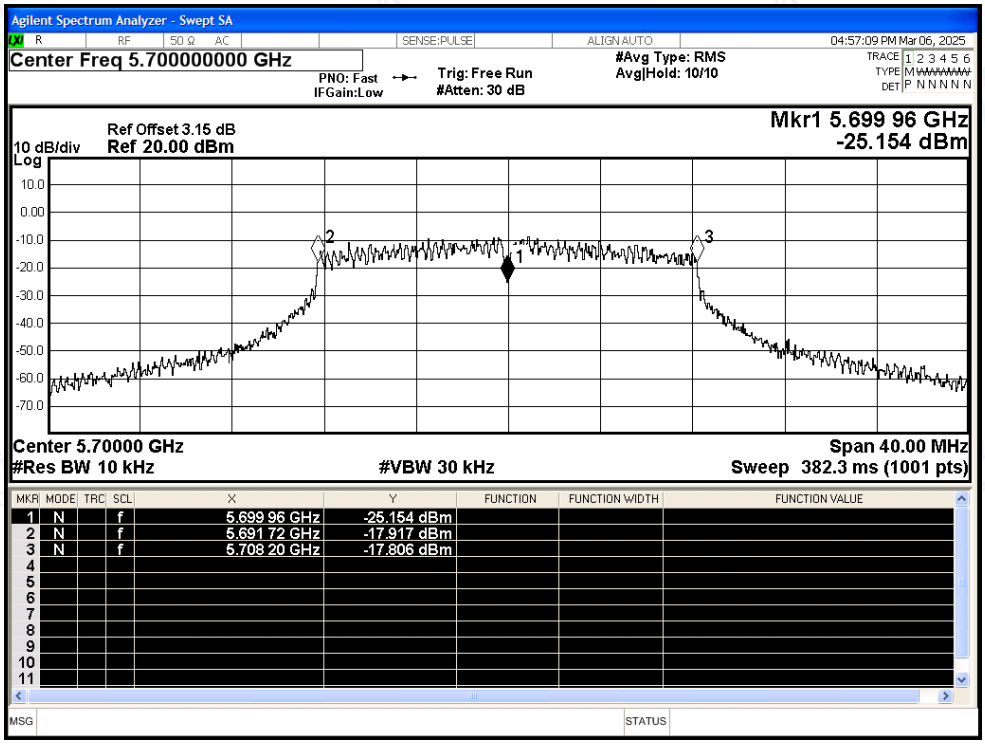
Freq. Stability NVNT a 5500MHz Ant1



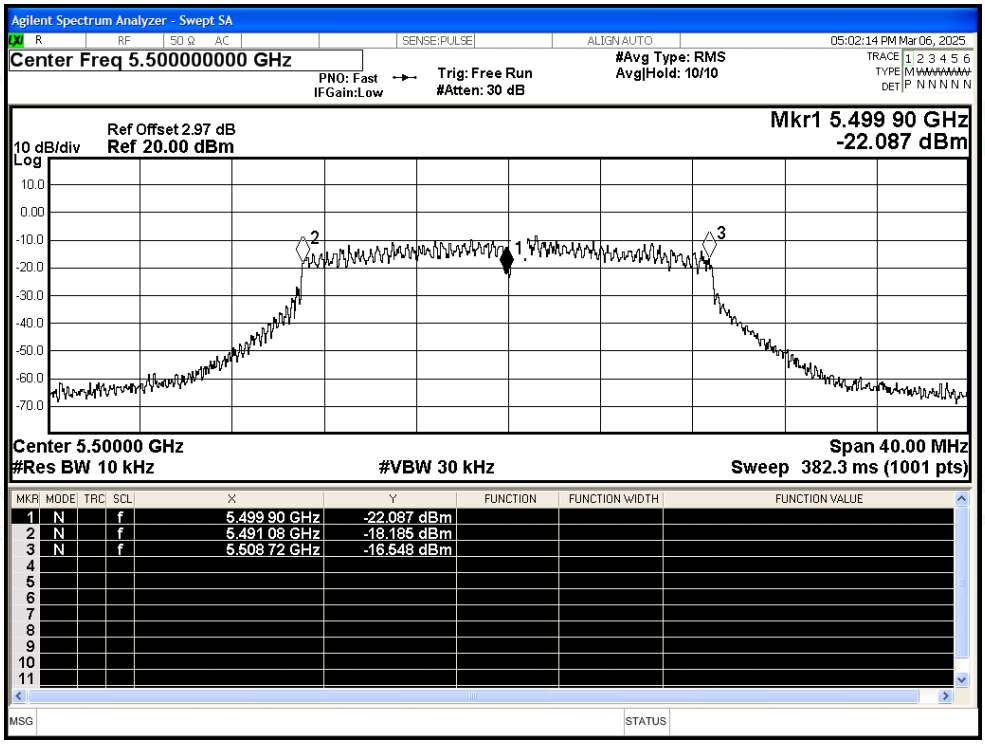
Freq. Stability NVNT a 5580MHz Ant1



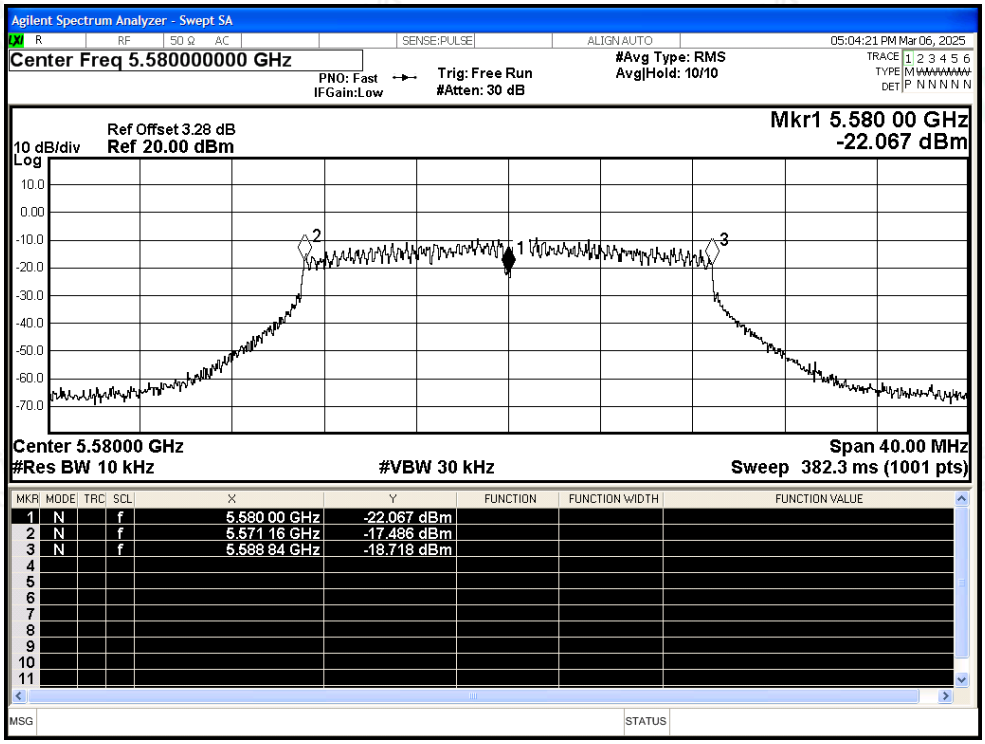
Freq. Stability NVNT a 5700MHz Ant1



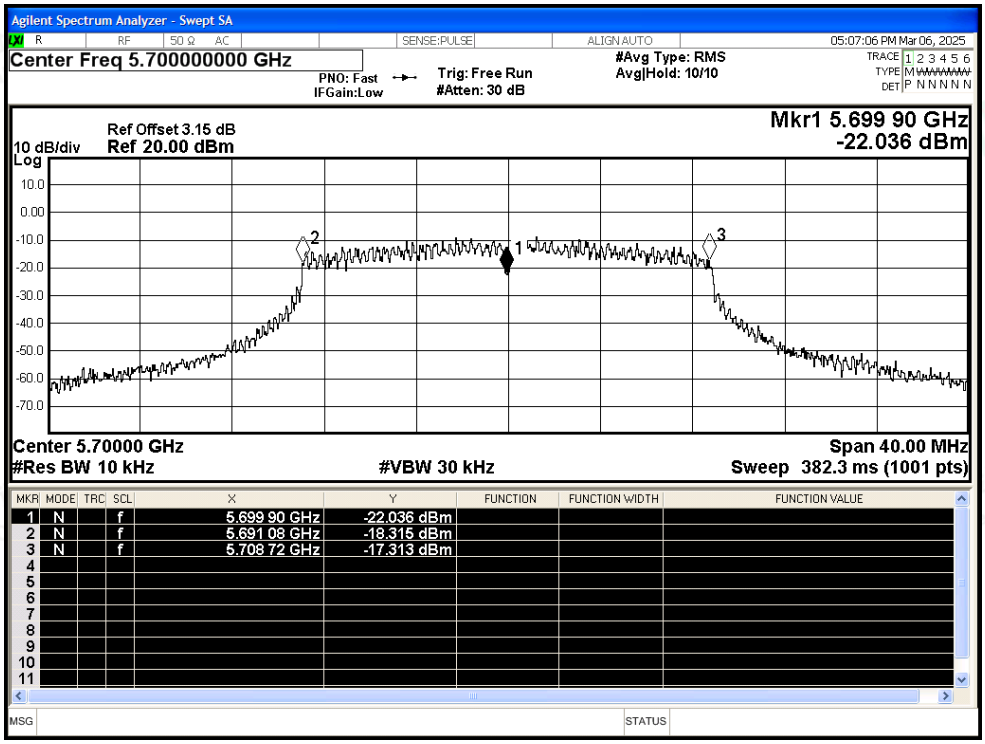
Freq. Stability NVNT n20 5500MHz Ant1



Freq. Stability NVNT n20 5580MHz Ant1



Freq. Stability NVNT n20 5700MHz Ant1

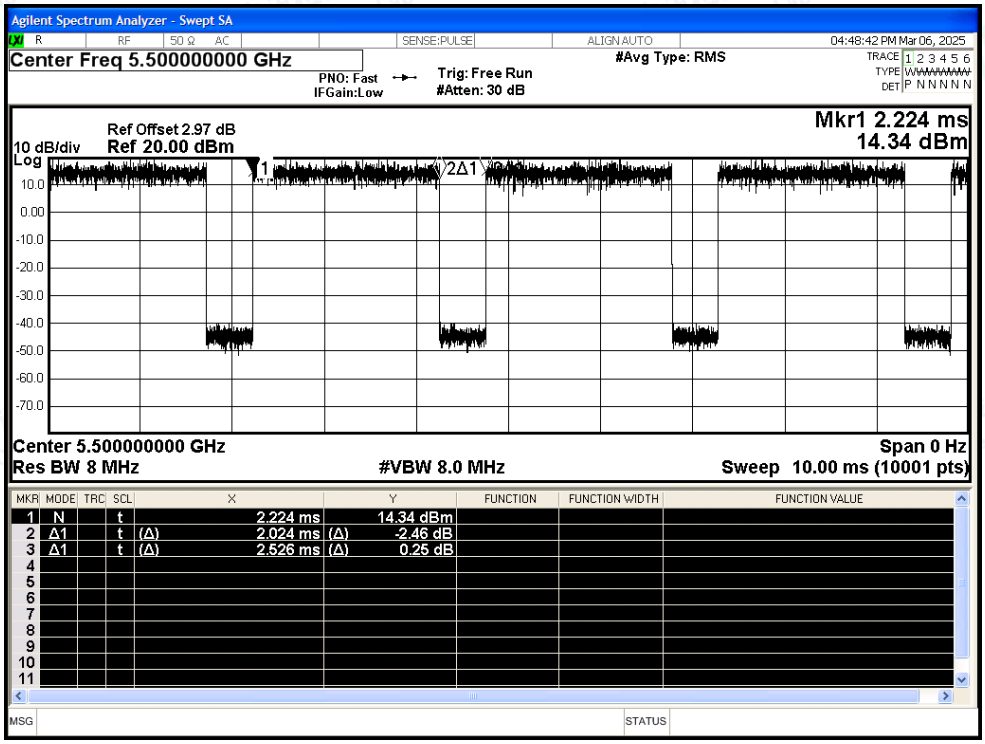


E.6 Duty Cycle

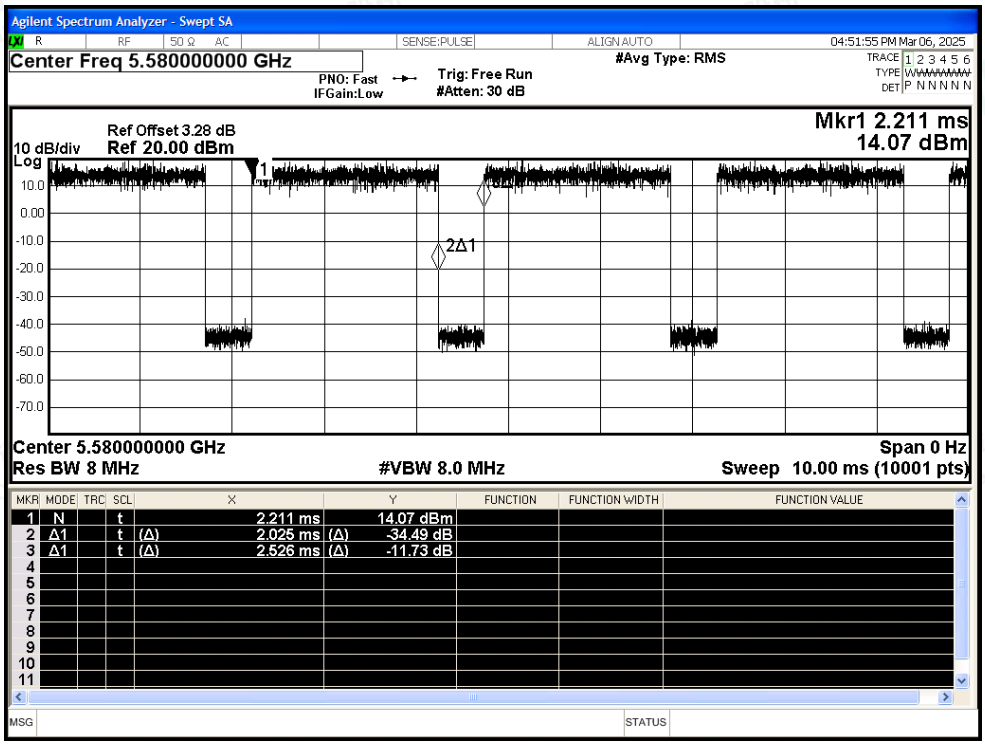
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5500	Ant1	80.13	0.96	0.49
NVNT	a	5580	Ant1	80.17	0.96	0.49
NVNT	a	5700	Ant1	80.17	0.96	0.49
NVNT	n20	5500	Ant1	79.04	1.02	0.53
NVNT	n20	5580	Ant1	79	1.02	0.53
NVNT	n20	5700	Ant1	79	1.02	0.53

Test Graphs

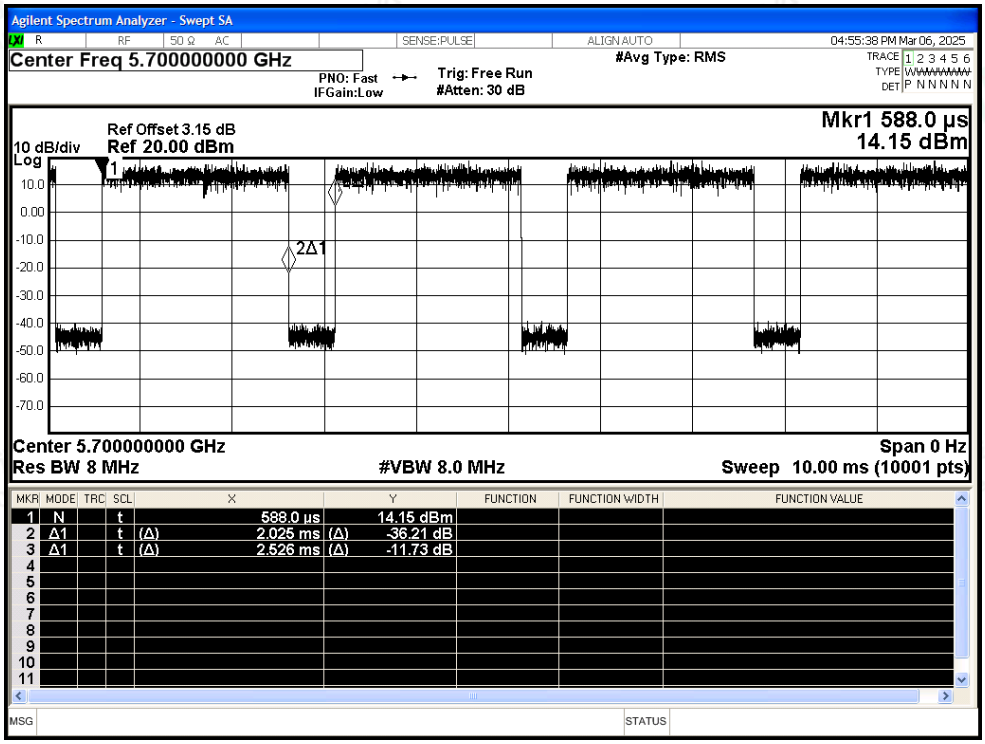
Duty Cycle NVNT a 5500MHz Ant1



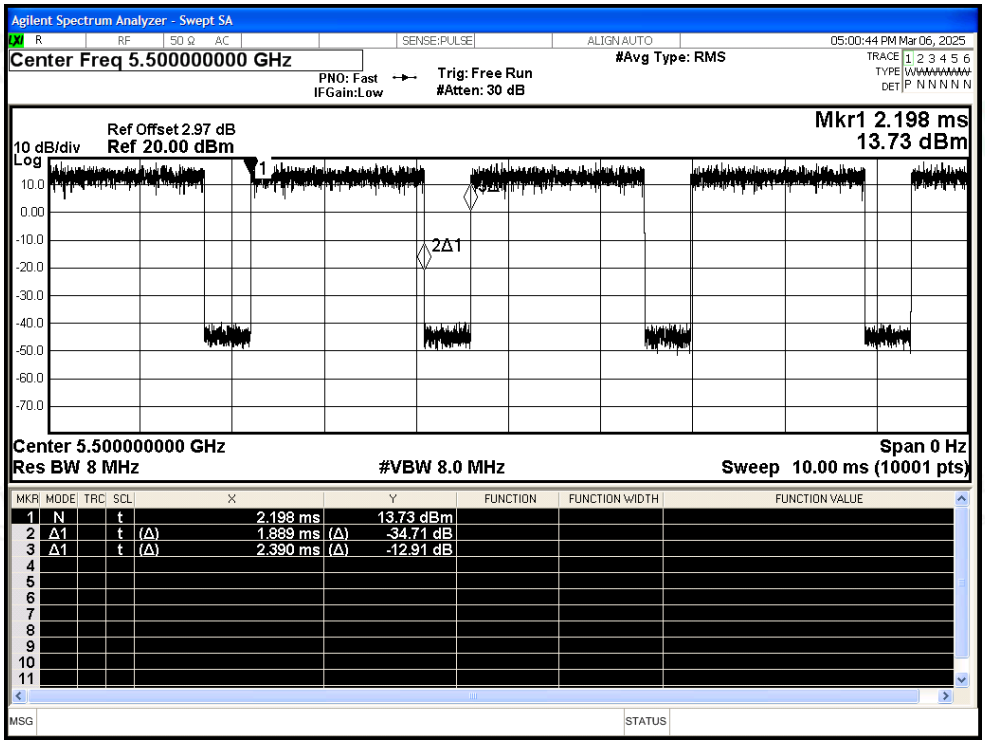
Duty Cycle NVNT a 5580MHz Ant1



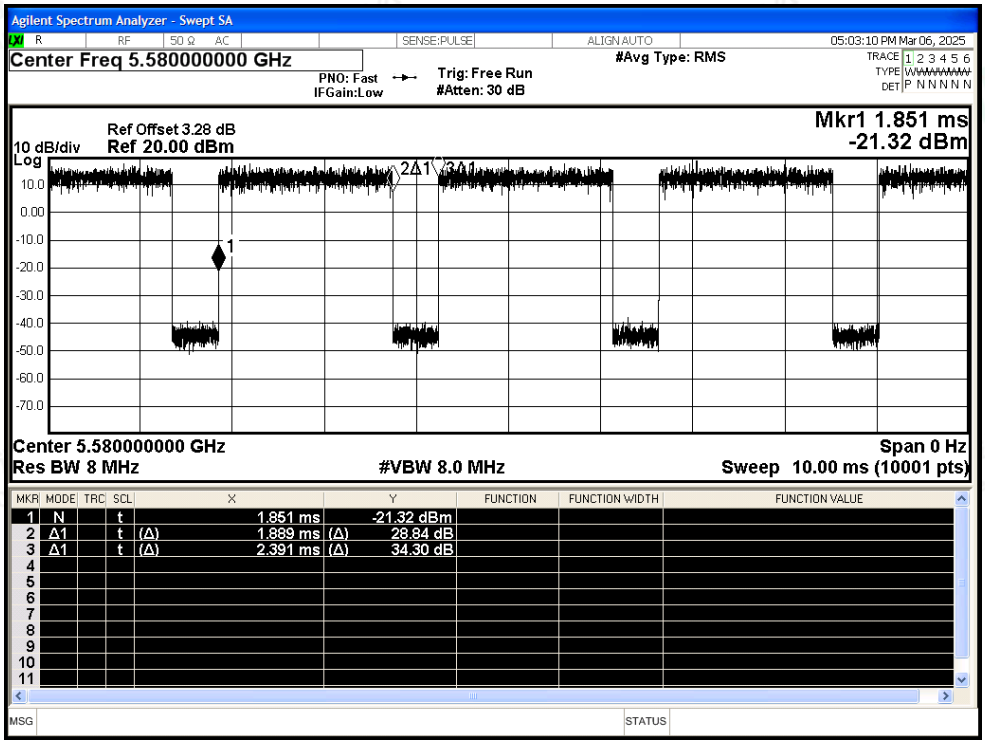
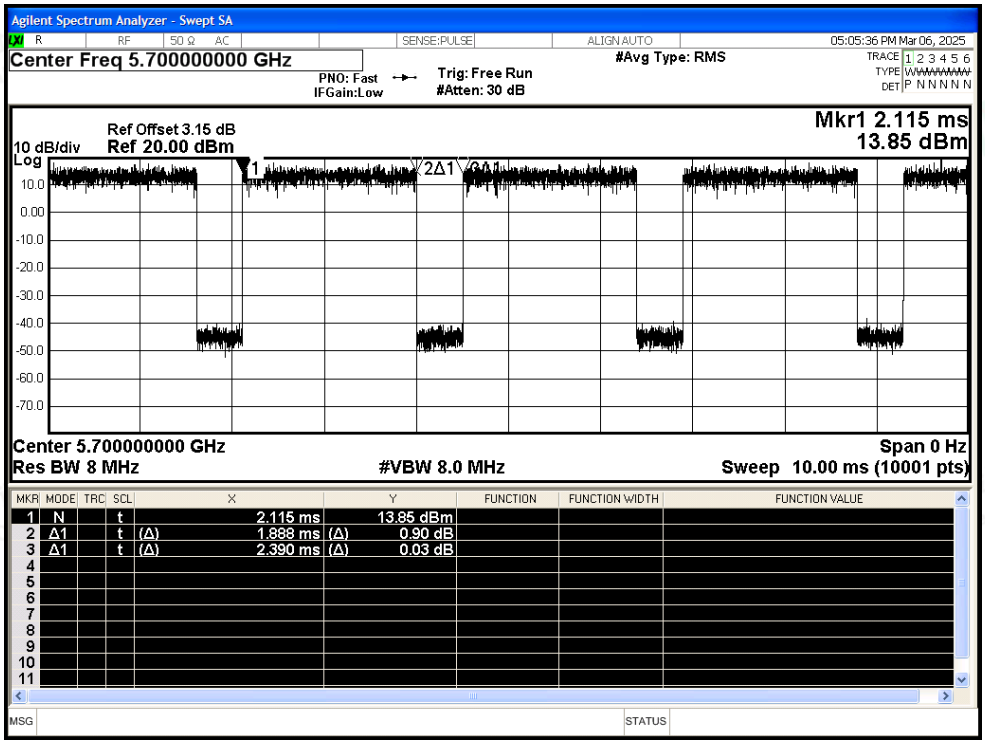
Duty Cycle NVNT a 5700MHz Ant1



Duty Cycle NVNT n20 5500MHz Ant1



Duty Cycle NVNT n20 5580MHz Ant1



Duty Cycle NVNT n20 5700MHz Ant1