



Appendix E

RF Test Data for 5.8GWIFI (Conducted Measurement)

Product Name: Wifi piggy board

Test Model: T52030

Environmental Conditions

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





E.1 -6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	a	5745	Ant	15.832	0.5	Pass
NVNT	a	5785	Ant	15.664	0.5	Pass
NVNT	a	5825	Ant	15.033	0.5	Pass
NVNT	n20	5745	Ant	14.983	0.5	Pass
NVNT	n20	5785	Ant	15.122	0.5	Pass
NVNT	n20	5825	Ant	15.073	0.5	Pass

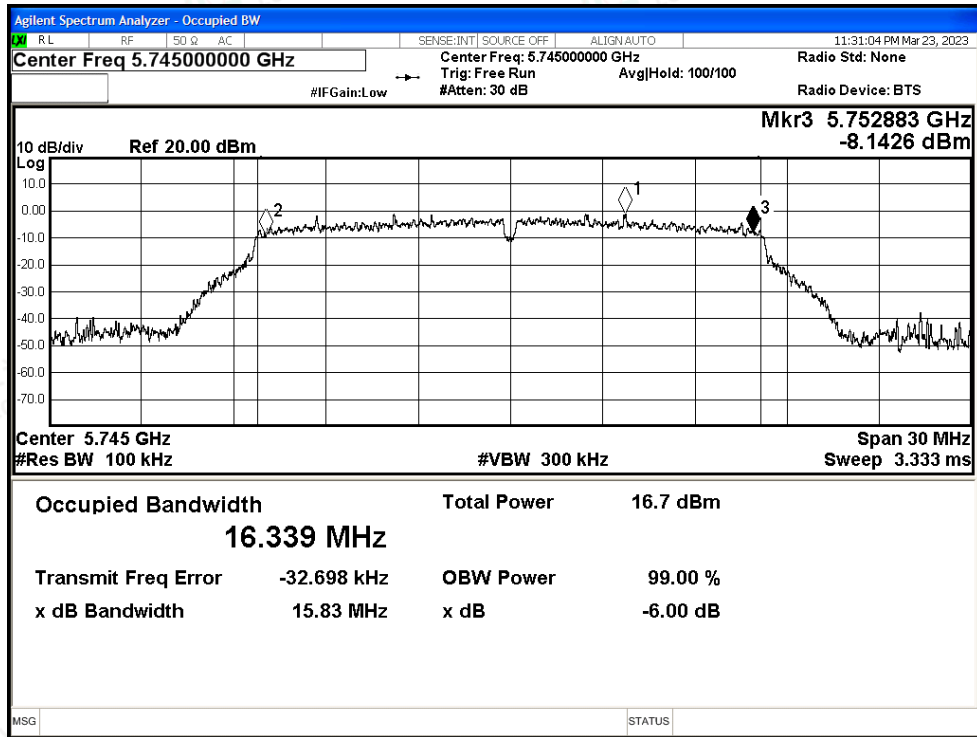


Shenzhen LCS Compliance Testing Laboratory Ltd.
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
Scan code to check authenticity

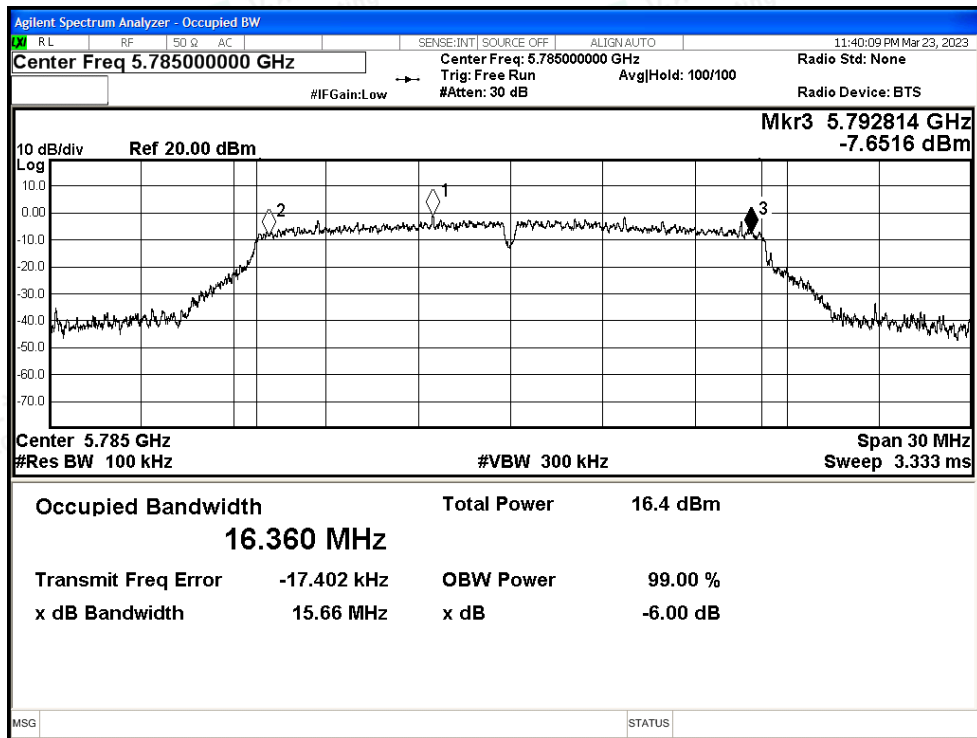


Test Graphs

-6dB Bandwidth NVNT a 5745MHz Ant

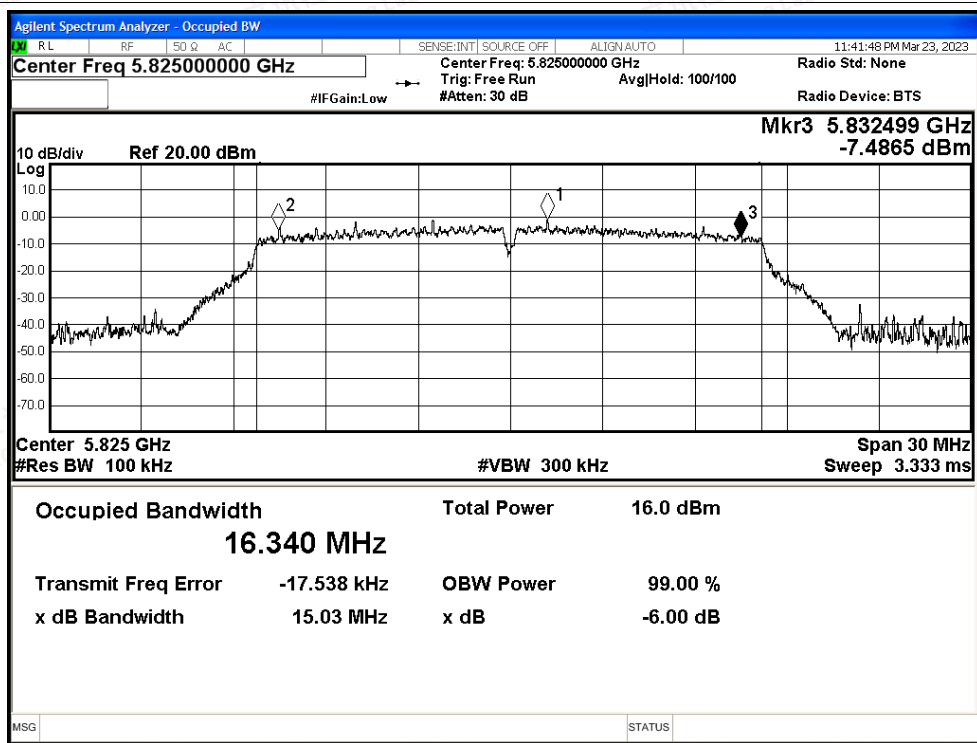


-6dB Bandwidth NVNT a 5785MHz Ant

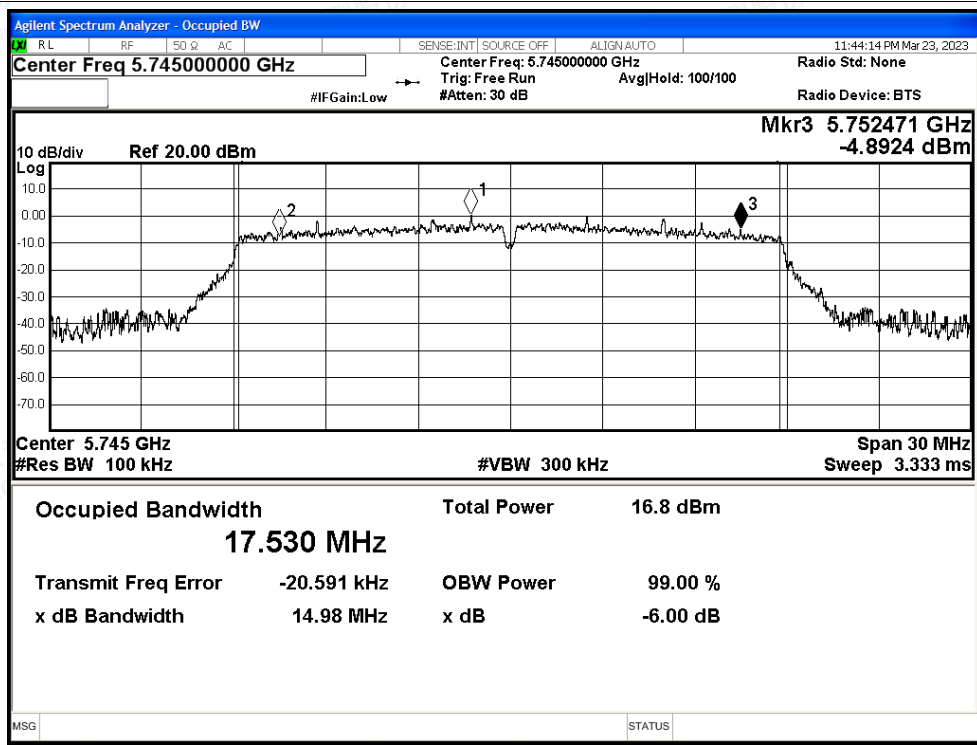




-6dB Bandwidth NVNT a 5825MHz Ant

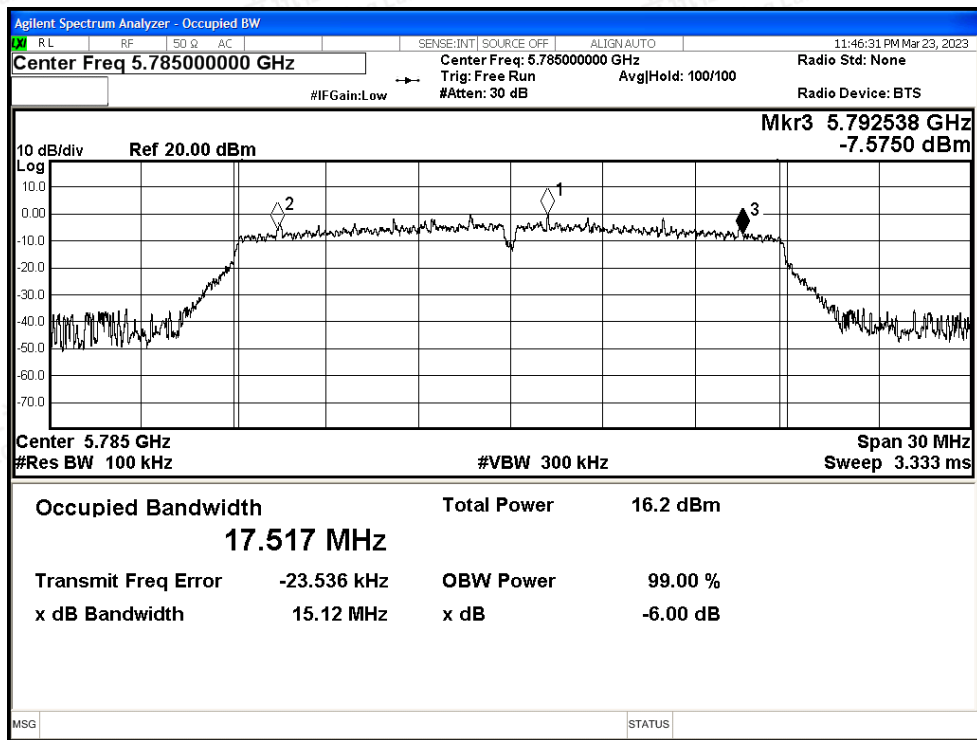


-6dB Bandwidth NVNT n20 5745MHz Ant

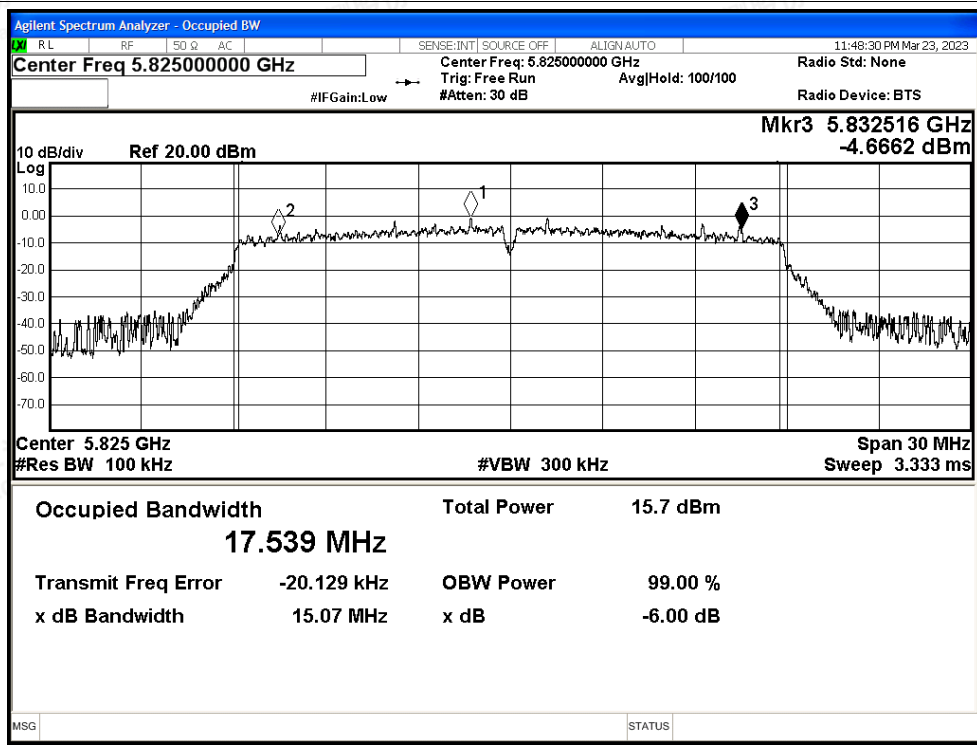




-6dB Bandwidth NVNT n20 5785MHz Ant



-6dB Bandwidth NVNT n20 5825MHz Ant





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	5745	Ant	10.64	0.13	10.77	30	Pass
NVNT	a	5785	Ant	10.63	0.14	10.76	30	Pass
NVNT	a	5825	Ant	10.18	0.14	10.32	30	Pass
NVNT	n20	5745	Ant	10.81	0.14	10.95	30	Pass
NVNT	n20	5785	Ant	10.21	0.15	10.36	30	Pass
NVNT	n20	5825	Ant	9.77	0.14	9.91	30	Pass





E.3 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/500KHz)	Duty Factor (dB)	Total PSD (dBm/500KHz)	Limit (dBm dBm/500KHz)	Verdict
NVNT	a	5745	Ant	-4.58	0.13	-4.45	30	Pass
NVNT	a	5785	Ant	-4.40	0.14	-4.26	30	Pass
NVNT	a	5825	Ant	-4.74	0.14	-4.6	30	Pass
NVNT	n20	5745	Ant	-4.60	0.14	-4.46	30	Pass
NVNT	n20	5785	Ant	-4.25	0.15	-4.1	30	Pass
NVNT	n20	5825	Ant	-5.89	0.14	-5.75	30	Pass

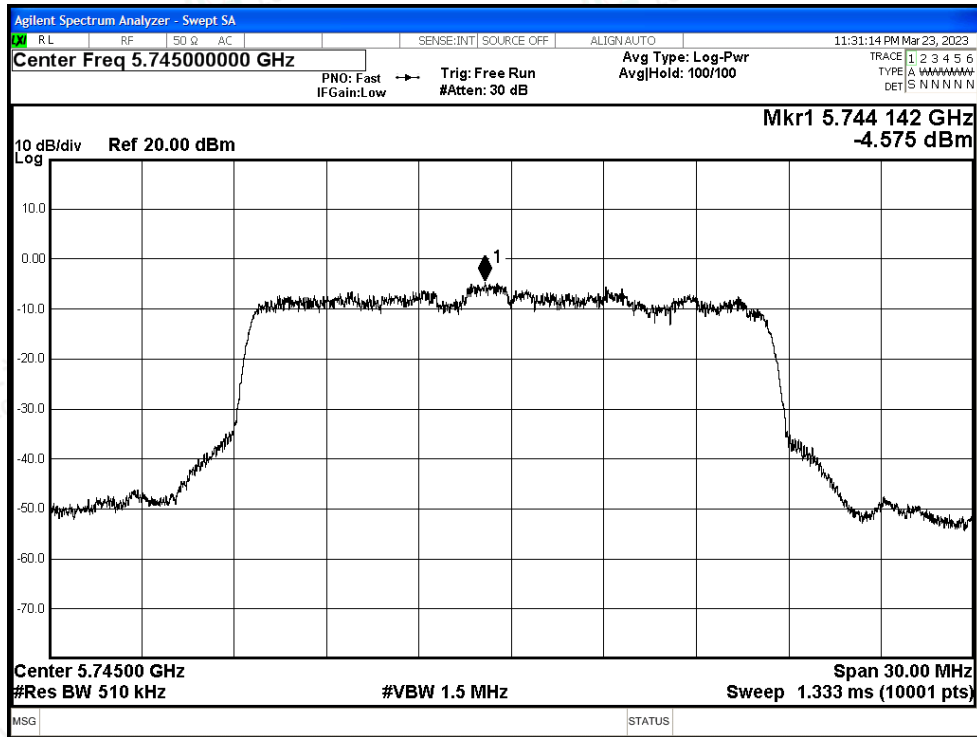


Shenzhen LCS Compliance Testing Laboratory Ltd.
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
Scan code to check authenticity

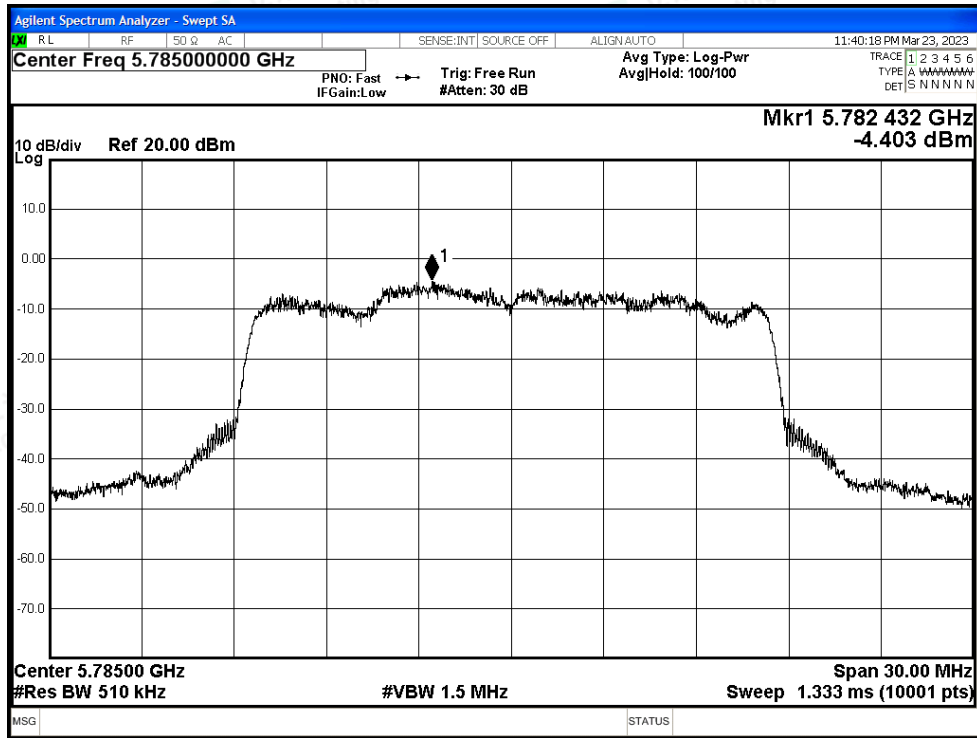


Test Graphs

PSD NVNT a 5745MHz Ant

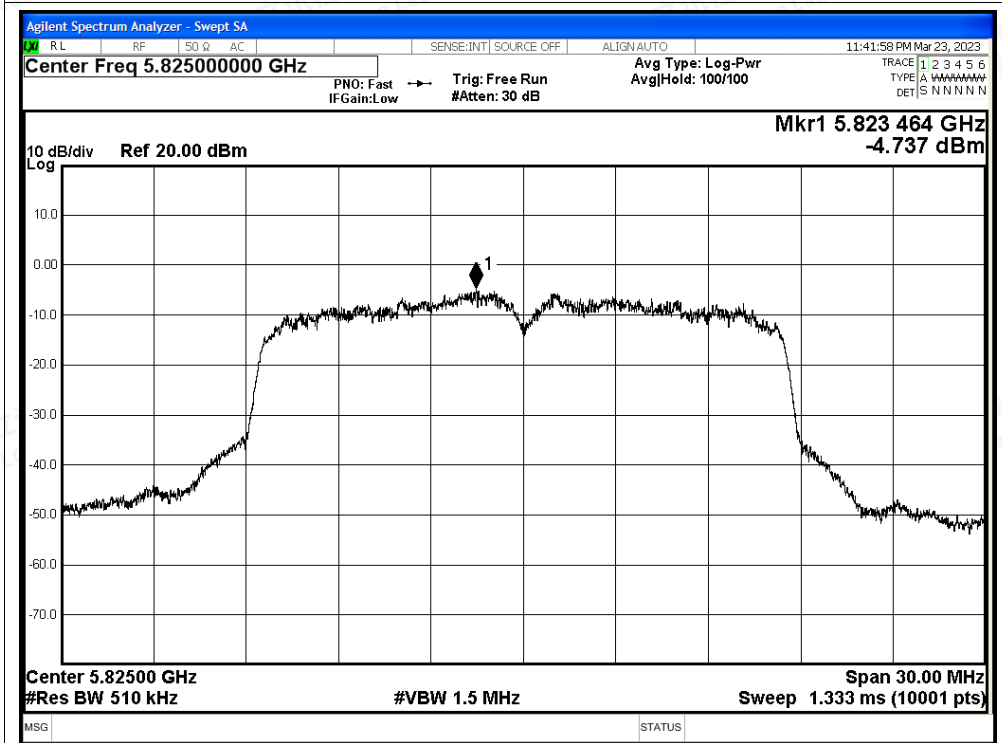


PSD NVNT a 5785MHz Ant

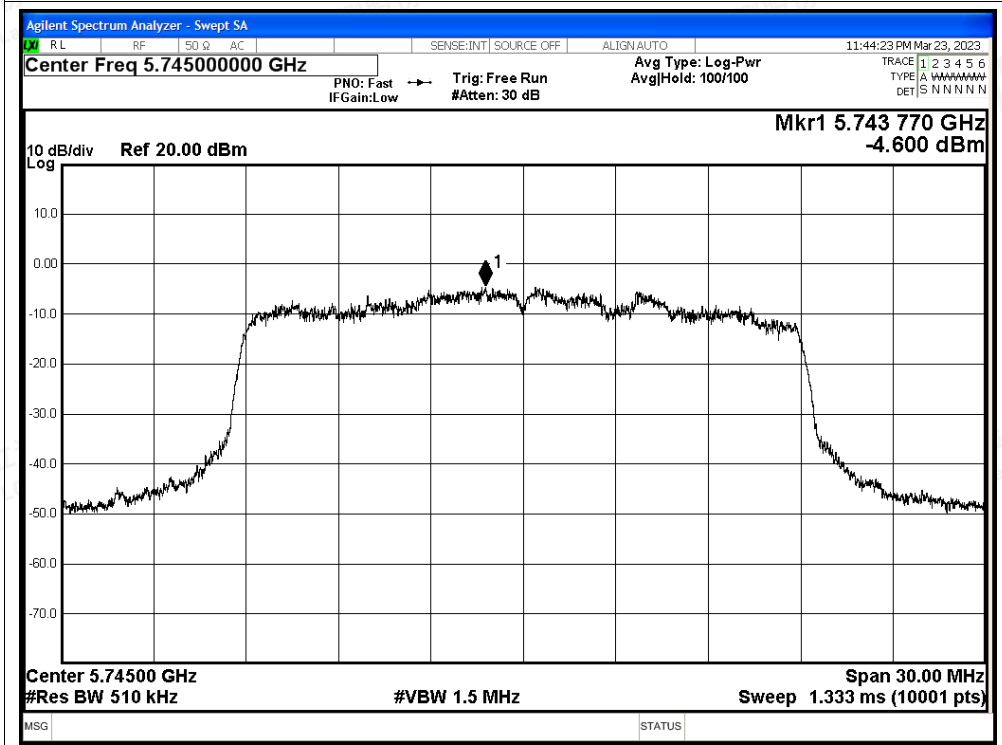


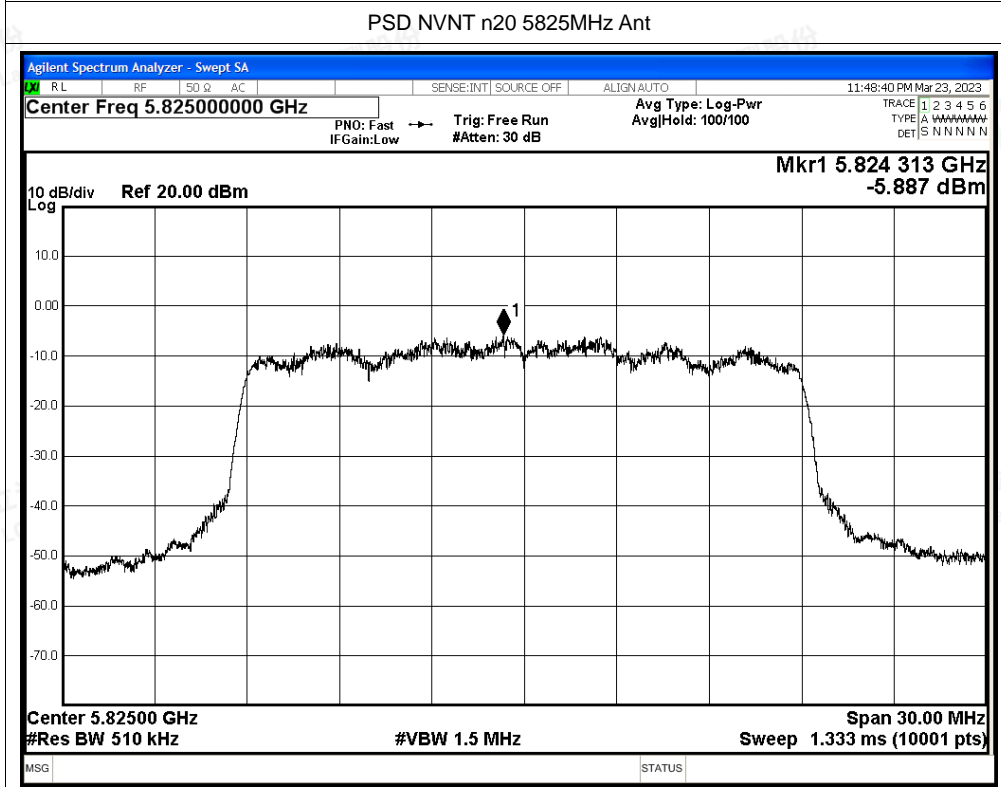
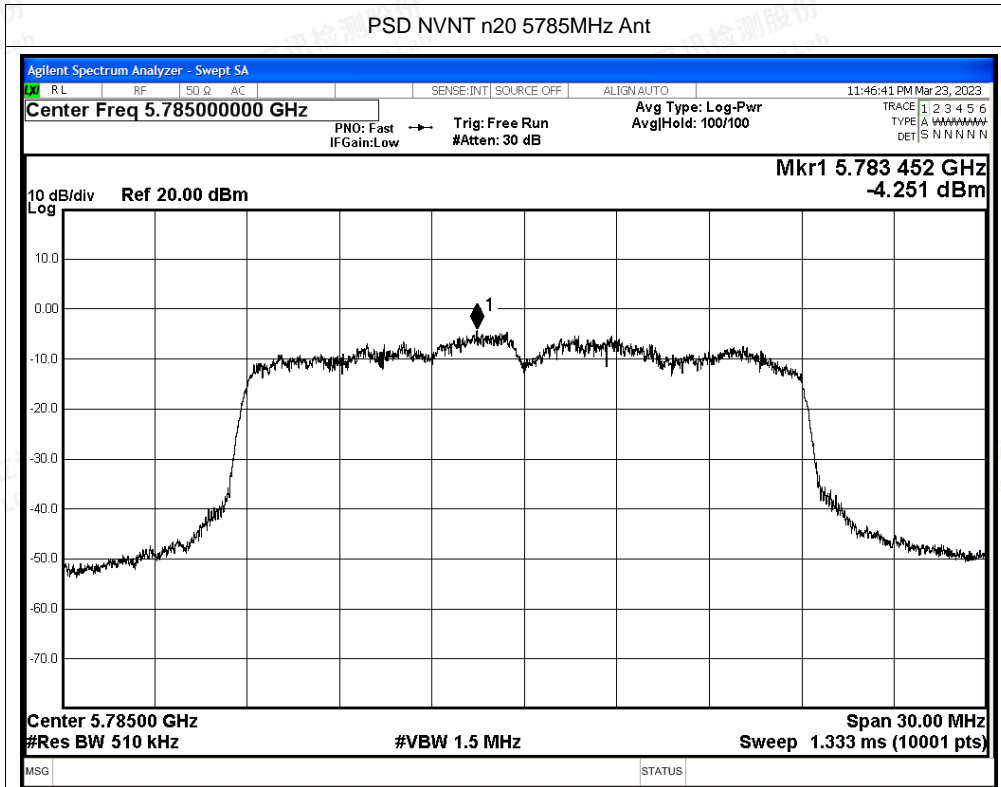


PSD NVNT a 5825MHz Ant



PSD NVNT n20 5745MHz Ant







E.4 Restrict Band

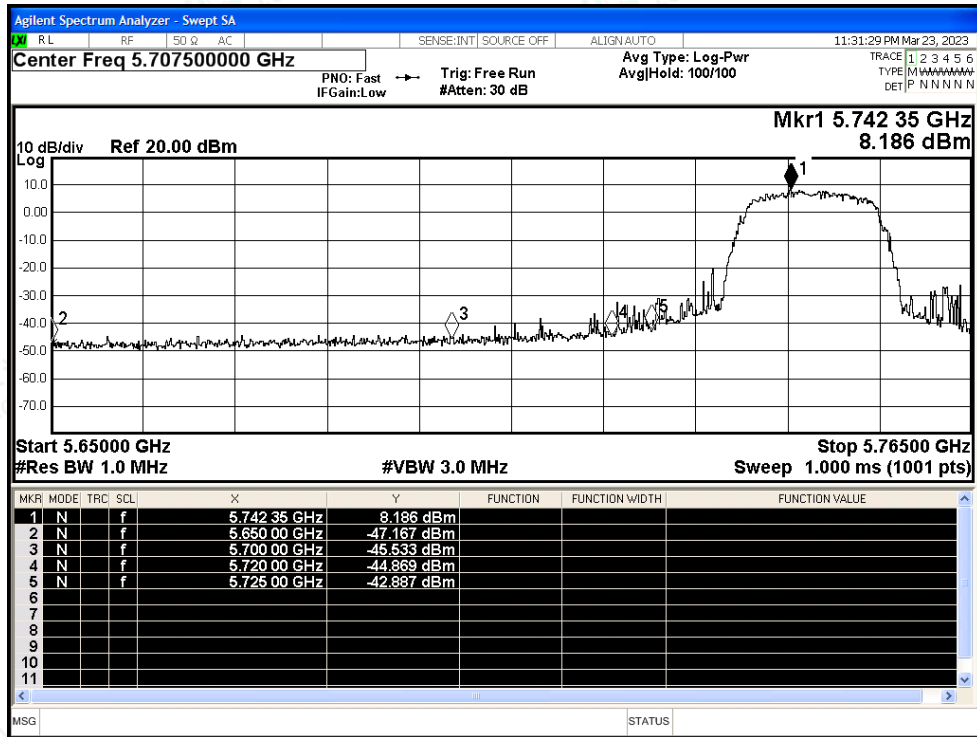
Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	EIRP Power (dBm)	Detector	Limit (dBm)	Verdict
NVNT	a	5745	Ant	5650	-47.17	2.6	-44.57	Peak	-27	Pass
NVNT	a	5745	Ant	5650	-57.44	2.6	-54.84	Average	-27	Pass
NVNT	a	5745	Ant	5700	-45.53	2.6	-42.93	Peak	10	Pass
NVNT	a	5745	Ant	5700	-55.89	2.6	-53.29	Average	10	Pass
NVNT	a	5745	Ant	5720	-44.87	2.6	-42.27	Peak	15.6	Pass
NVNT	a	5745	Ant	5720	-53.41	2.6	-50.81	Average	15.6	Pass
NVNT	a	5745	Ant	5725	-42.89	2.6	-40.29	Peak	27	Pass
NVNT	a	5745	Ant	5725	-51.07	2.6	-48.47	Average	27	Pass
NVNT	a	5825	Ant	5850	-35.17	2.6	-32.57	Peak	27	Pass
NVNT	a	5825	Ant	5850	-53.15	2.6	-50.55	Average	27	Pass
NVNT	a	5825	Ant	5855	-42.43	2.6	-39.83	Peak	15.6	Pass
NVNT	a	5825	Ant	5855	-54.1	2.6	-51.50	Average	15.6	Pass
NVNT	a	5825	Ant	5875	-46.36	2.6	-43.76	Peak	10	Pass
NVNT	a	5825	Ant	5875	-55.47	2.6	-52.87	Average	10	Pass
NVNT	a	5825	Ant	5925	-48.1	2.6	-45.50	Peak	-27	Pass
NVNT	a	5825	Ant	5925	-57.56	2.6	-54.96	Average	-27	Pass
NVNT	n20	5745	Ant	5650	-46.96	2.6	-44.36	Peak	-27	Pass
NVNT	n20	5745	Ant	5650	-57.46	2.6	-54.86	Average	-27	Pass
NVNT	n20	5745	Ant	5700	-45.64	2.6	-43.04	Peak	10	Pass
NVNT	n20	5745	Ant	5700	-55.54	2.6	-52.94	Average	10	Pass
NVNT	n20	5745	Ant	5720	-38.6	2.6	-44.57	Peak	15.6	Pass
NVNT	n20	5745	Ant	5720	-52.79	2.6	-54.84	Average	15.6	Pass
NVNT	n20	5745	Ant	5725	-41.5	2.6	-42.93	Peak	27	Pass
NVNT	n20	5745	Ant	5725	-50.06	2.6	-53.29	Average	27	Pass
NVNT	n20	5825	Ant	5850	-41.15	2.6	-42.27	Peak	27	Pass
NVNT	n20	5825	Ant	5850	-52.35	2.6	-50.81	Average	27	Pass
NVNT	n20	5825	Ant	5855	-45.08	2.6	-40.29	Peak	15.6	Pass
NVNT	n20	5825	Ant	5855	-53.87	2.6	-48.47	Average	15.6	Pass
NVNT	n20	5825	Ant	5875	-46.5	2.6	-32.57	Peak	10	Pass
NVNT	n20	5825	Ant	5875	-55.54	2.6	-50.55	Average	10	Pass
NVNT	n20	5825	Ant	5925	-47.51	2.6	-39.83	Peak	-27	Pass
NVNT	n20	5825	Ant	5925	-57.4	2.6	-51.50	Average	-27	Pass



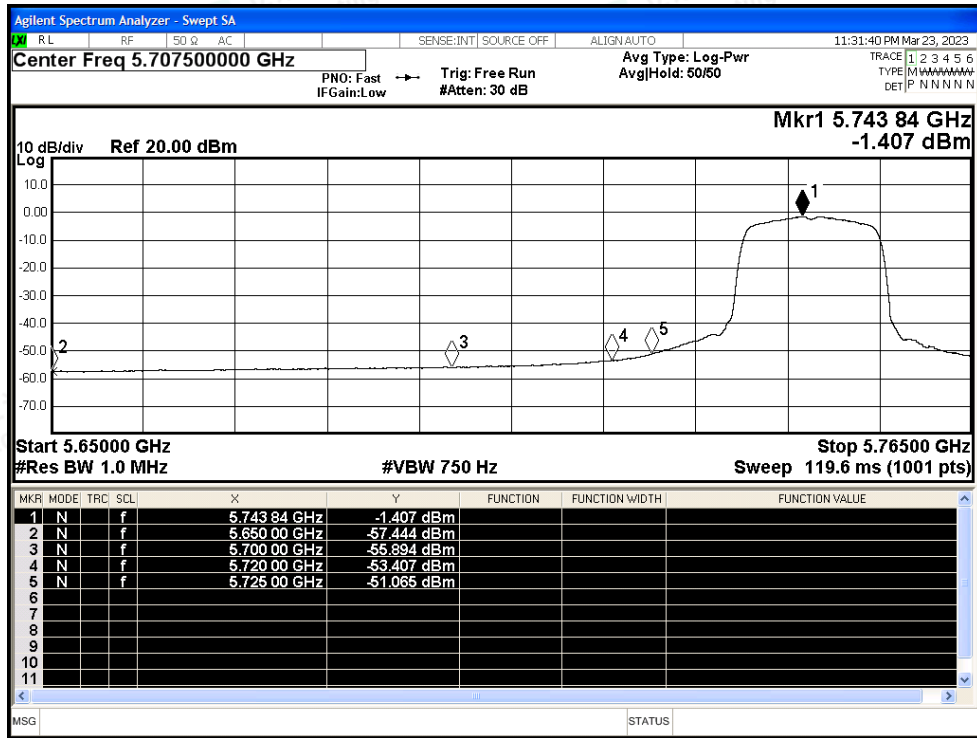


Test Graphs

Restrict Band NVNT a 5745MHz Ant Peak

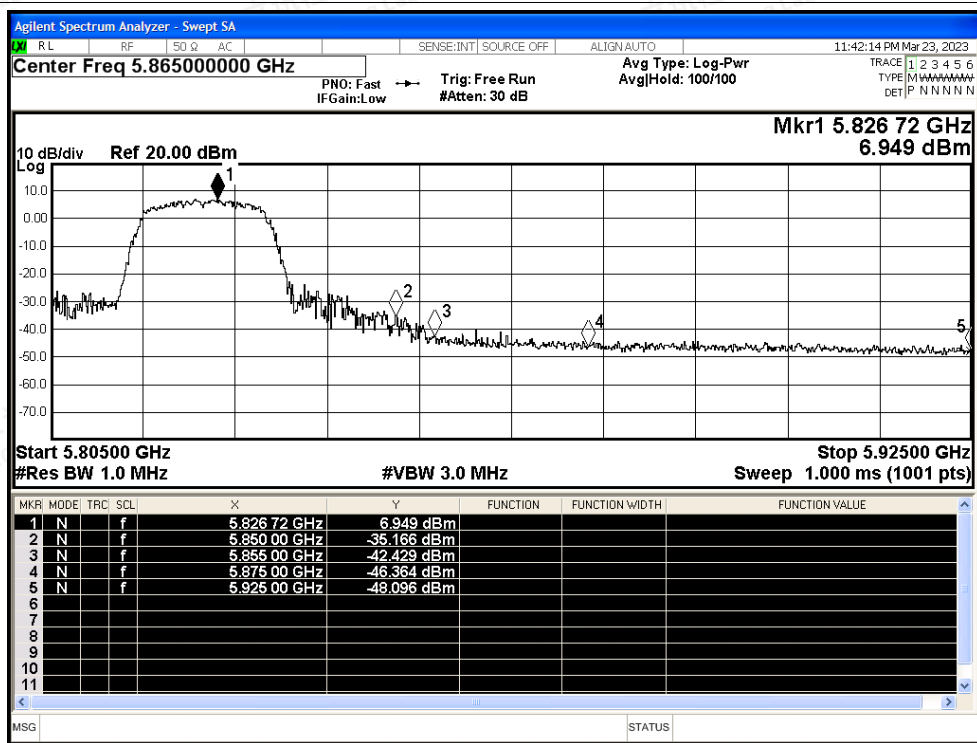


Restrict Band NVNT a 5745MHz Ant Average

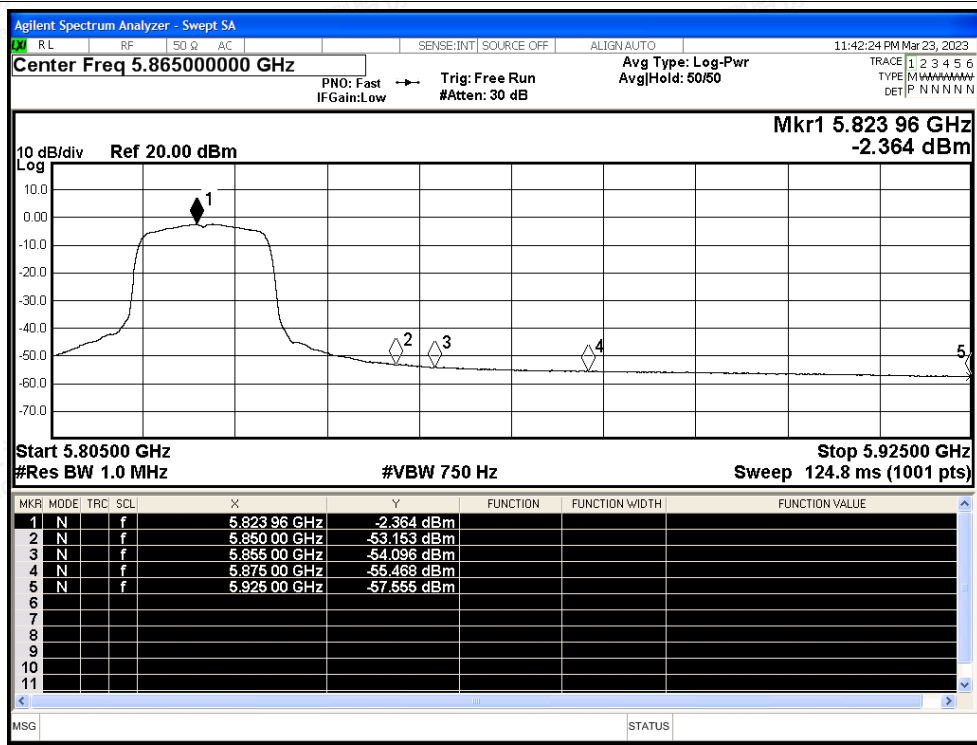




Restrict Band NVNT a 5825MHz Ant Peak

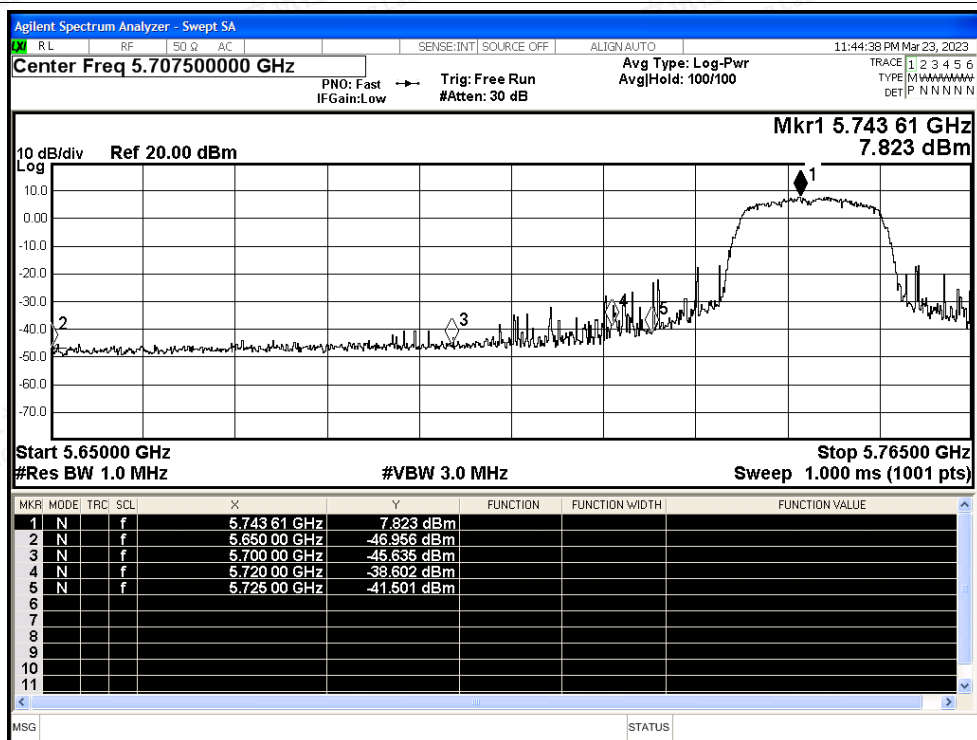


Restrict Band NVNT a 5825MHz Ant Average

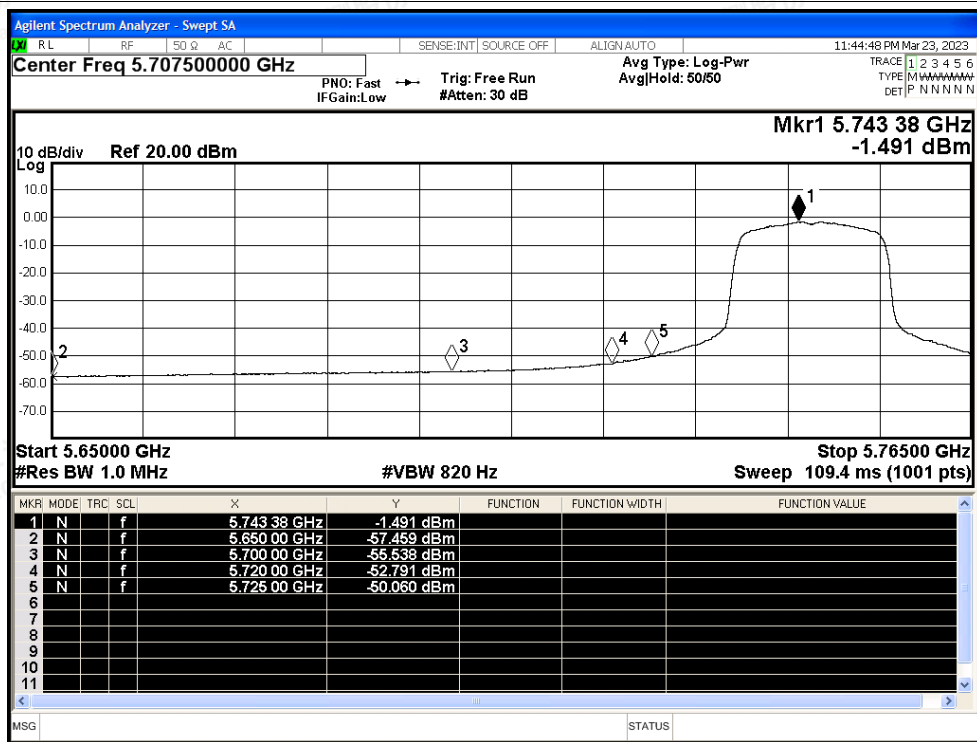




Restrict Band NVNT n20 5745MHz Ant Peak

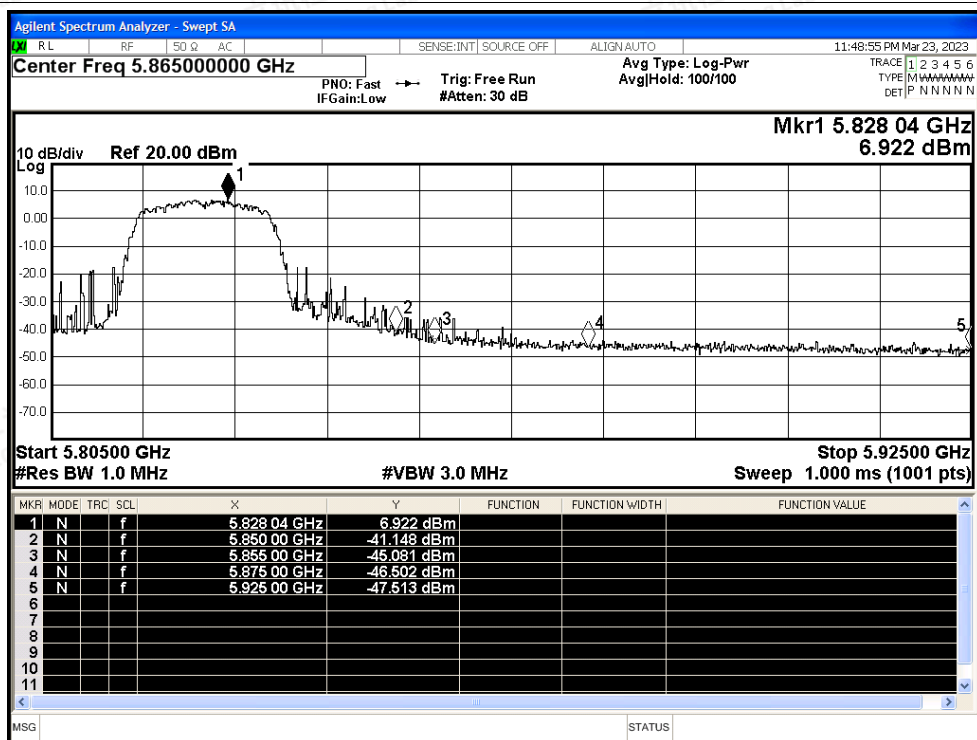


Restrict Band NVNT n20 5745MHz Ant Average

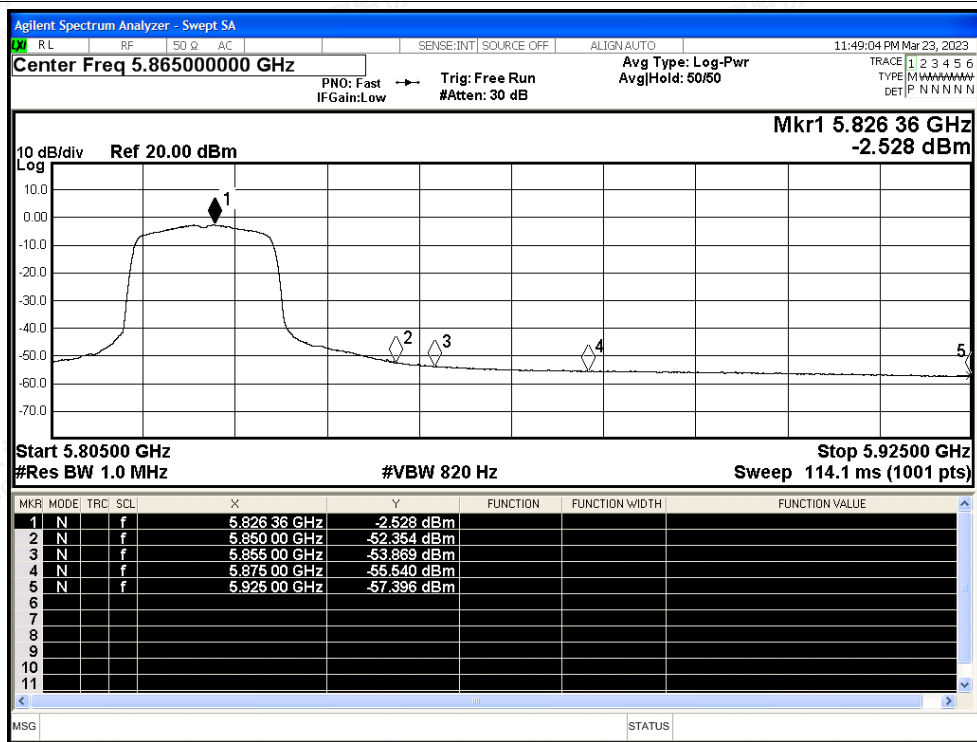




Restrict Band NVNT n20 5825MHz Ant Peak



Restrict Band NVNT n20 5825MHz Ant Average





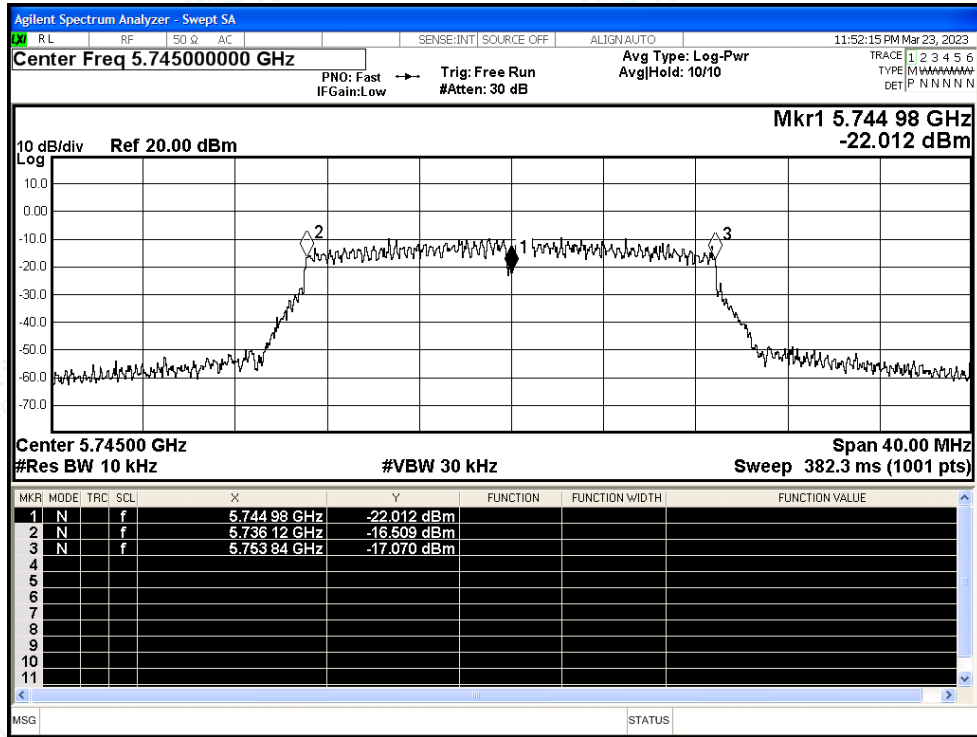
E.5 Frequency Stability

Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	n20	5745	Ant	5744.98	-20000	-3.48	25	Pass
NVNT	n20	5785	Ant	5784.98	-20000	-3.46	25	Pass
NVNT	n20	5825	Ant	5824.94	-60000	-10.3	25	Pass

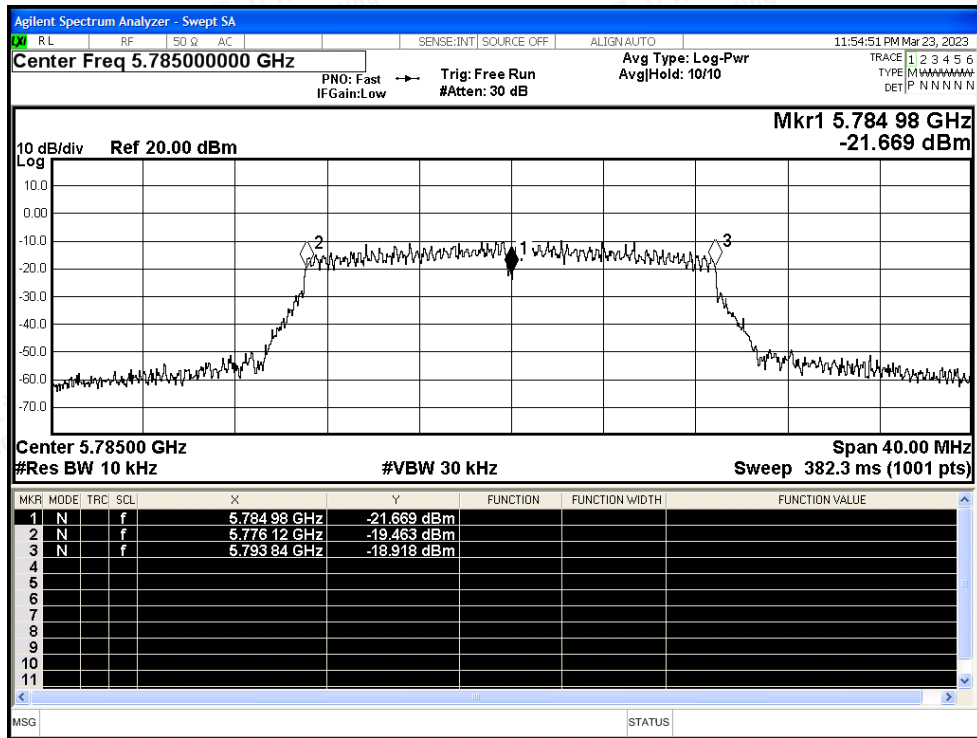


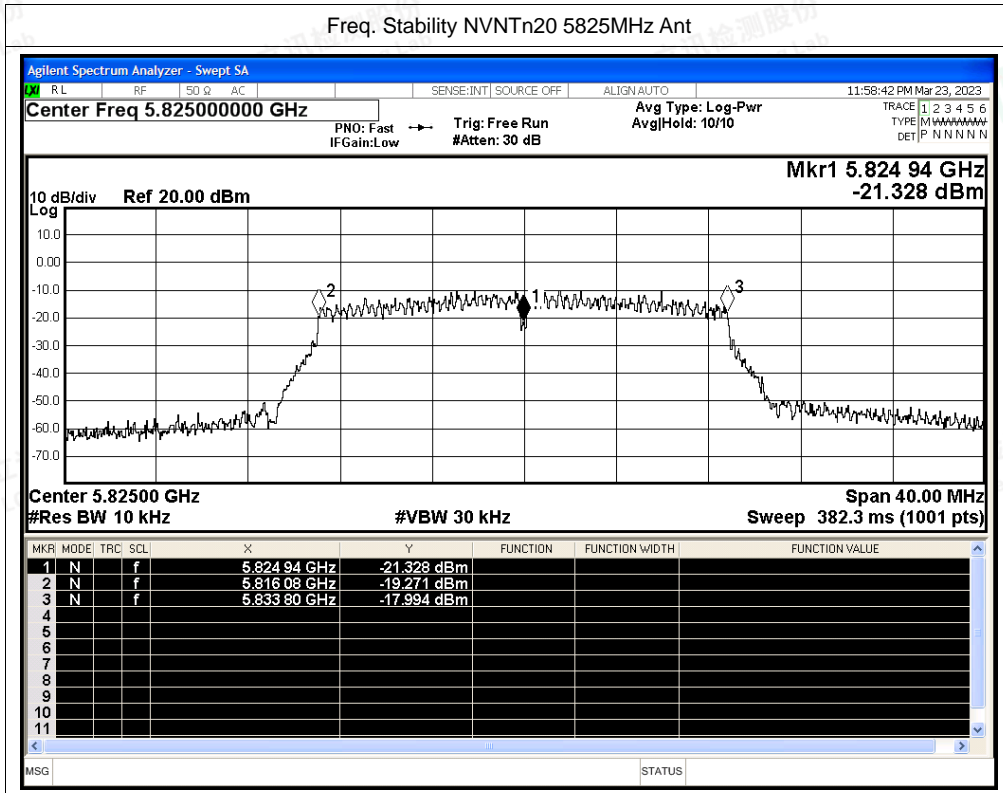


Freq. Stability NVNT n20 5745MHz Ant



Freq. Stability NVNT n20 5785MHz Ant







E.6 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5745	Ant	96.94	0.13	0.72
NVNT	a	5785	Ant	96.87	0.14	0.72
NVNT	a	5825	Ant	96.87	0.14	0.72
NVNT	n20	5745	Ant	96.73	0.14	0.77
NVNT	n20	5785	Ant	96.65	0.15	0.77
NVNT	n20	5825	Ant	96.73	0.14	0.77

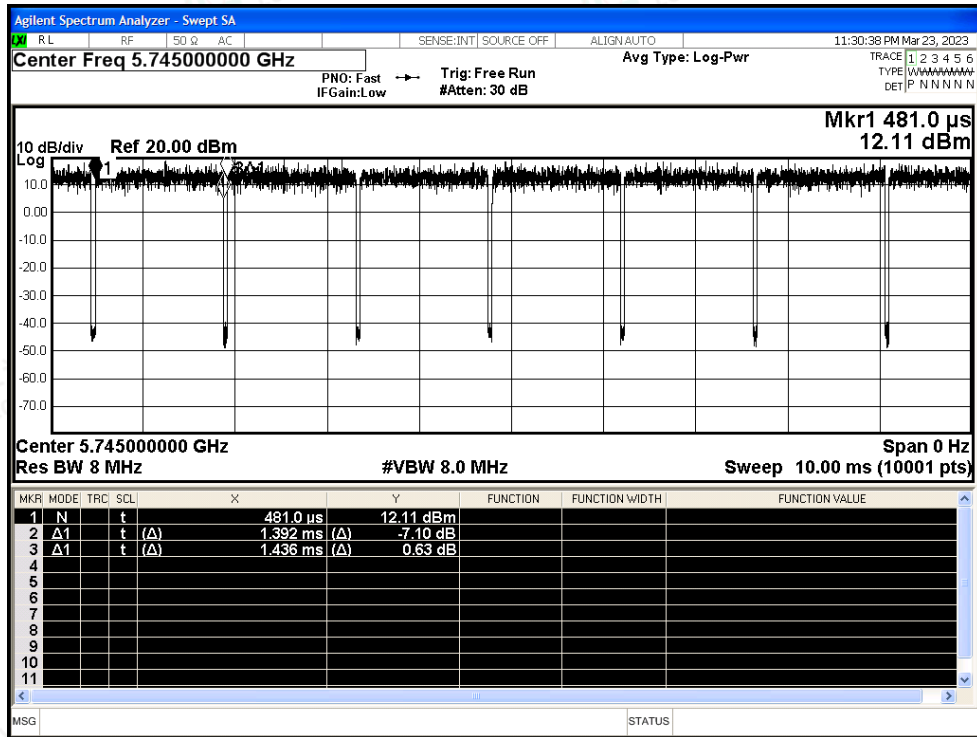


Shenzhen LCS Compliance Testing Laboratory Ltd.
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
Scan code to check authenticity

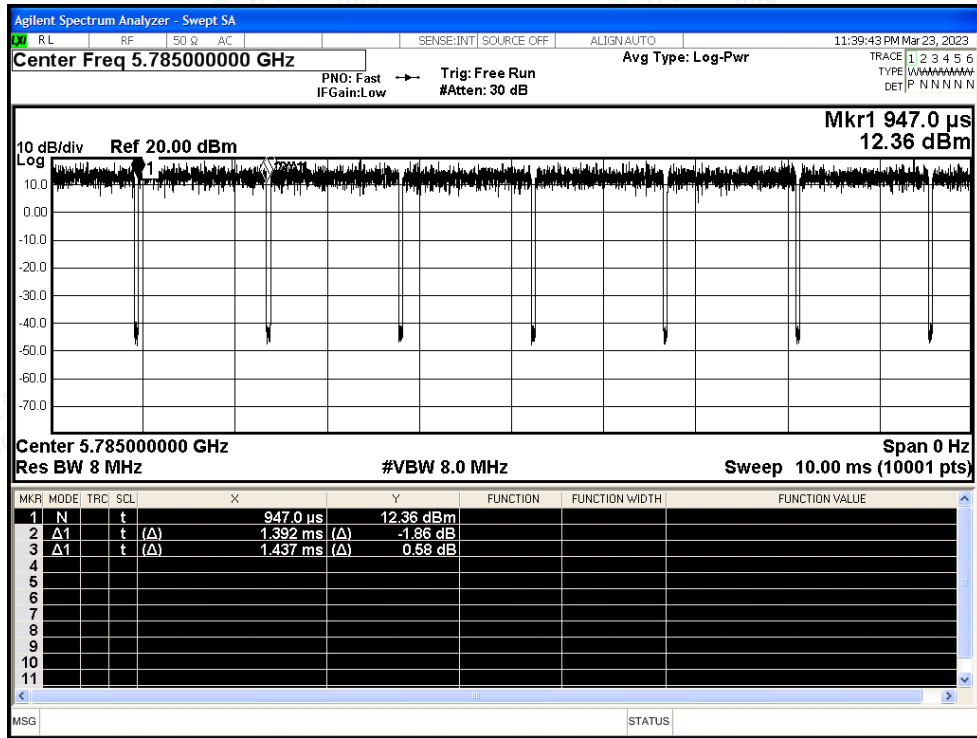


Test Graphs

Duty Cycle NVNT a 5745MHz Ant

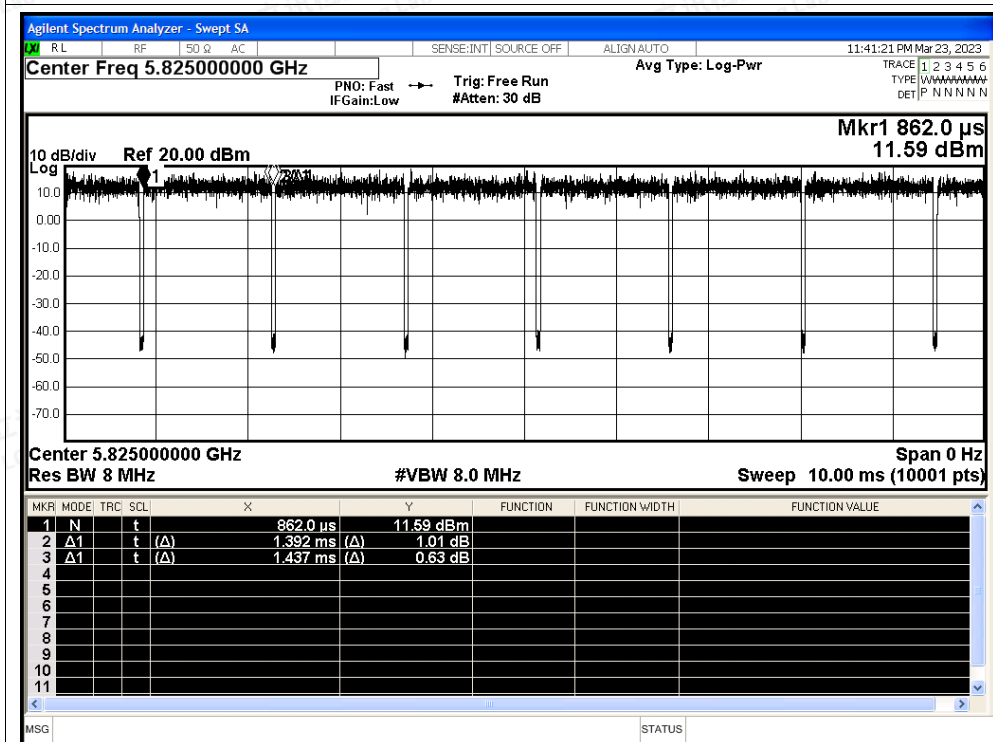


Duty Cycle NVNT a 5785MHz Ant

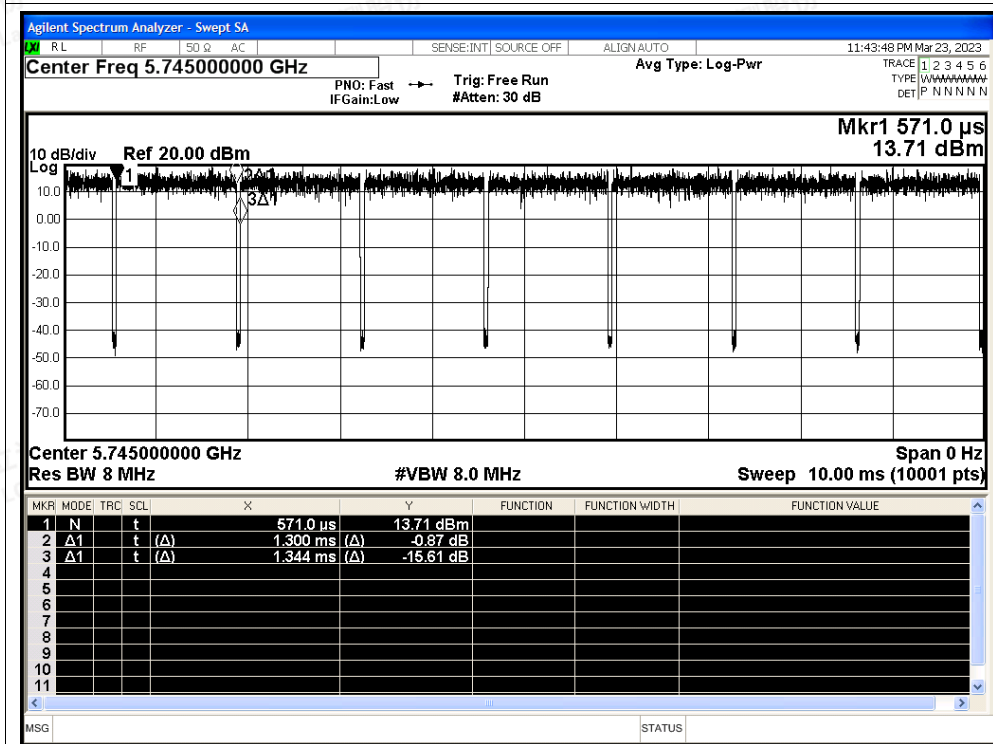




Duty Cycle NVNT a 5825MHz Ant

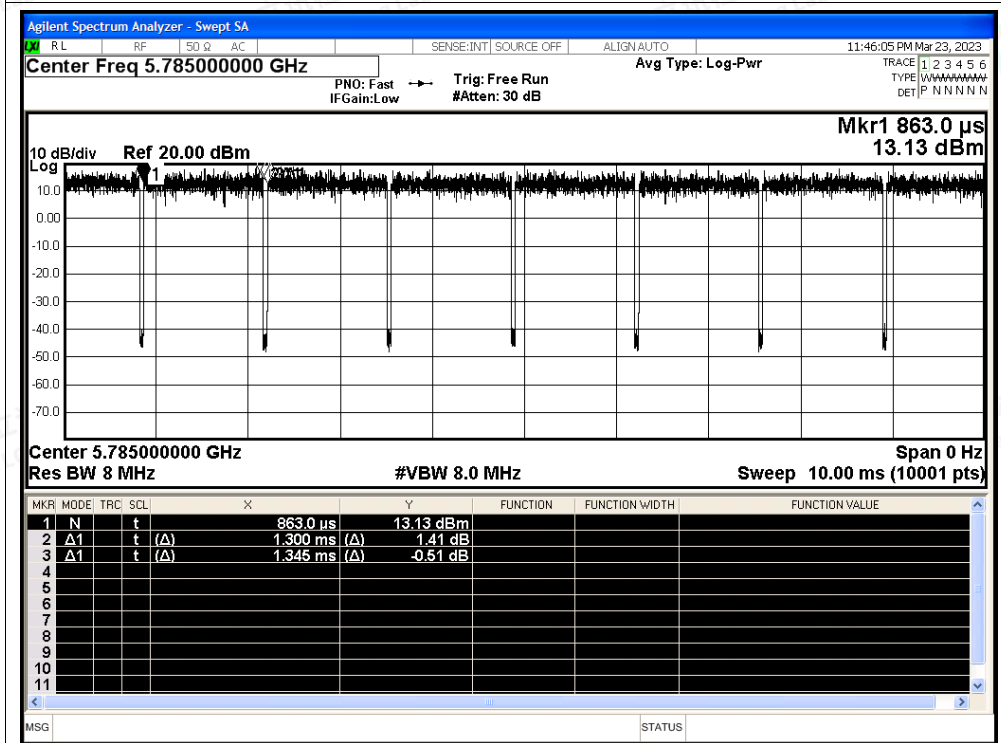


Duty Cycle NVNT n20 5745MHz Ant





Duty Cycle NVNT n20 5785MHz Ant



Duty Cycle NVNT n20 5825MHz Ant

