

Appendix C

RF Test Data for 5.8GWIFI(Conducted Measurement)

Product Name: Smart Pet Feeder

Test Model: ACF800D

Environmental Conditions

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



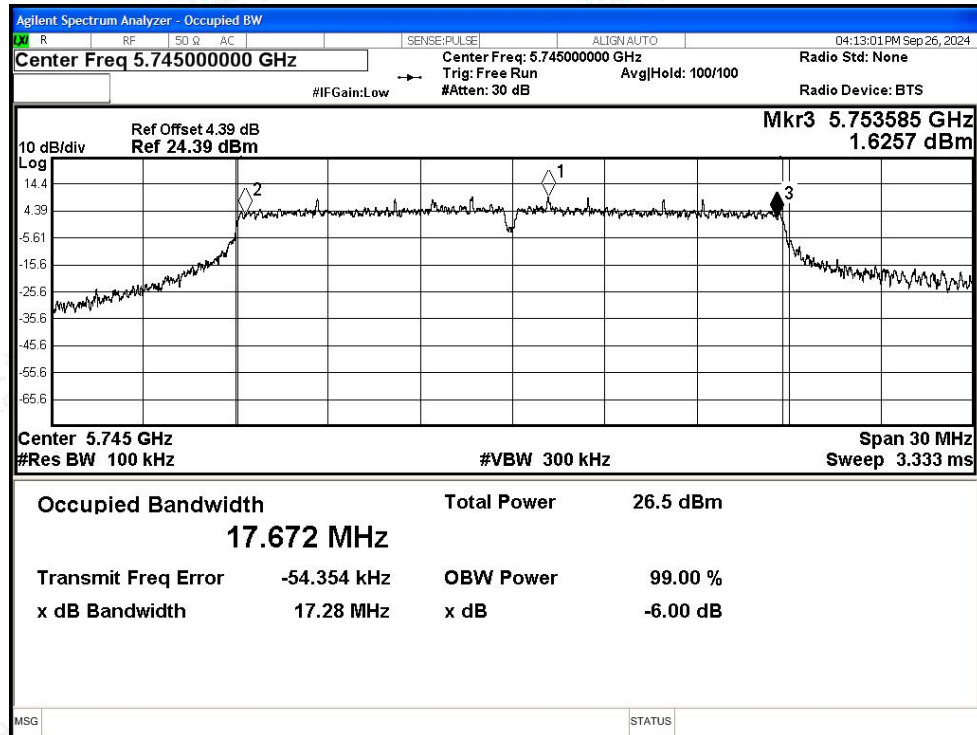
C.1 -6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	n20	5745	Ant1	17.279	≥ 0.5	Pass
NVNT	n20	5785	Ant1	17.14	≥ 0.5	Pass
NVNT	n20	5825	Ant1	15.939	≥ 0.5	Pass
NVNT	n40	5755	Ant1	33.833	≥ 0.5	Pass
NVNT	n40	5795	Ant1	35.129	≥ 0.5	Pass

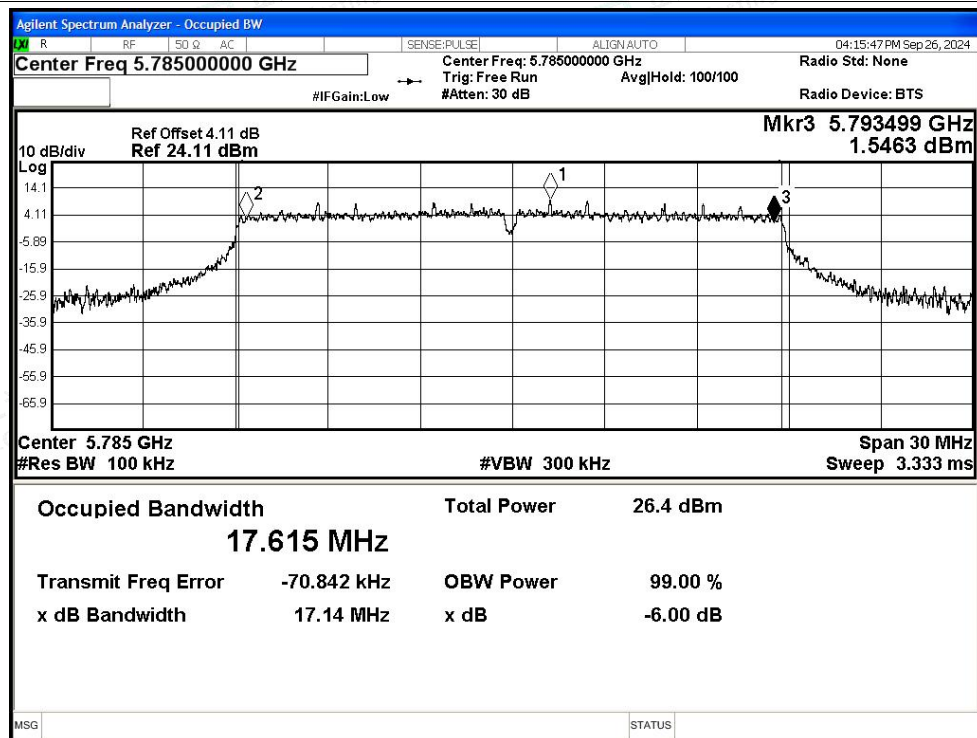


Test Graphs

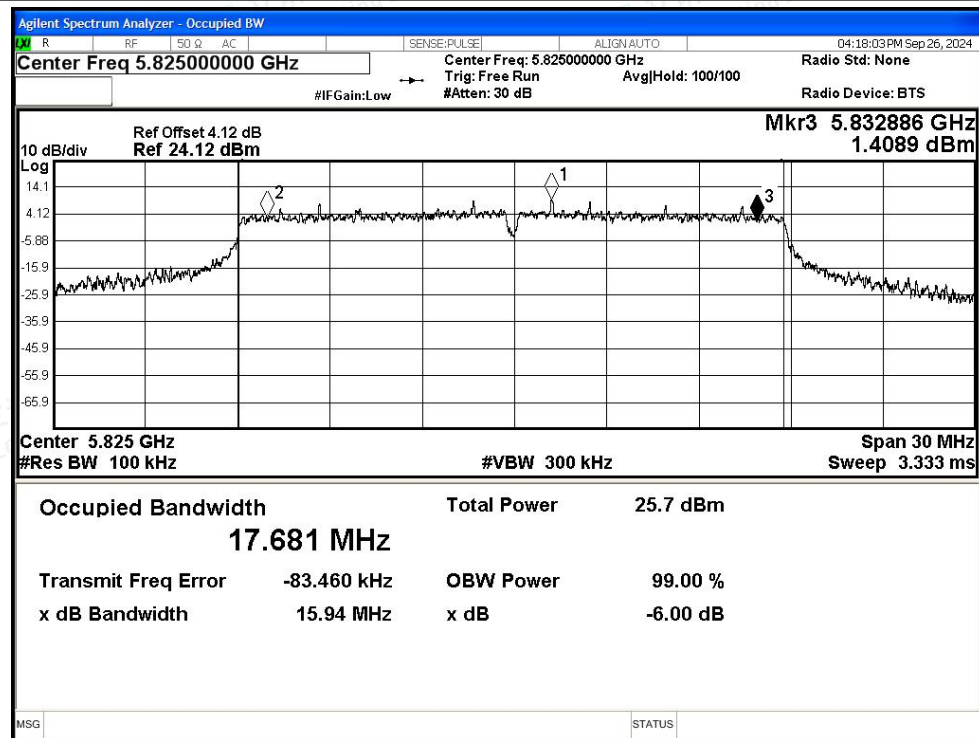
-6dB Bandwidth NVNT n20 5745MHz Ant1



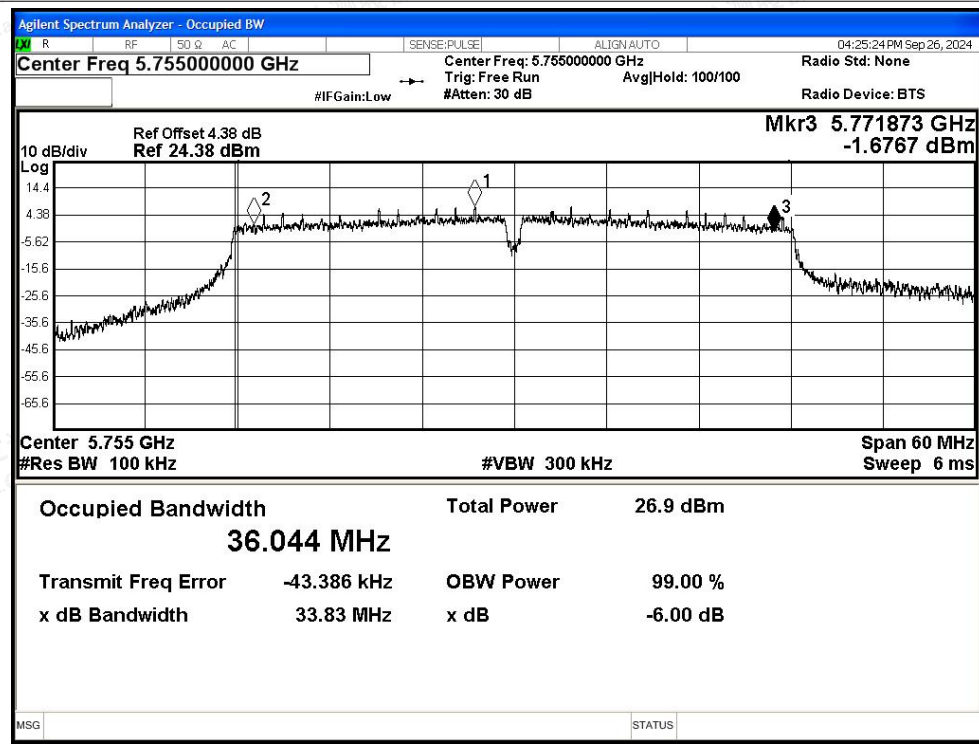
-6dB Bandwidth NVNT n20 5785MHz Ant1

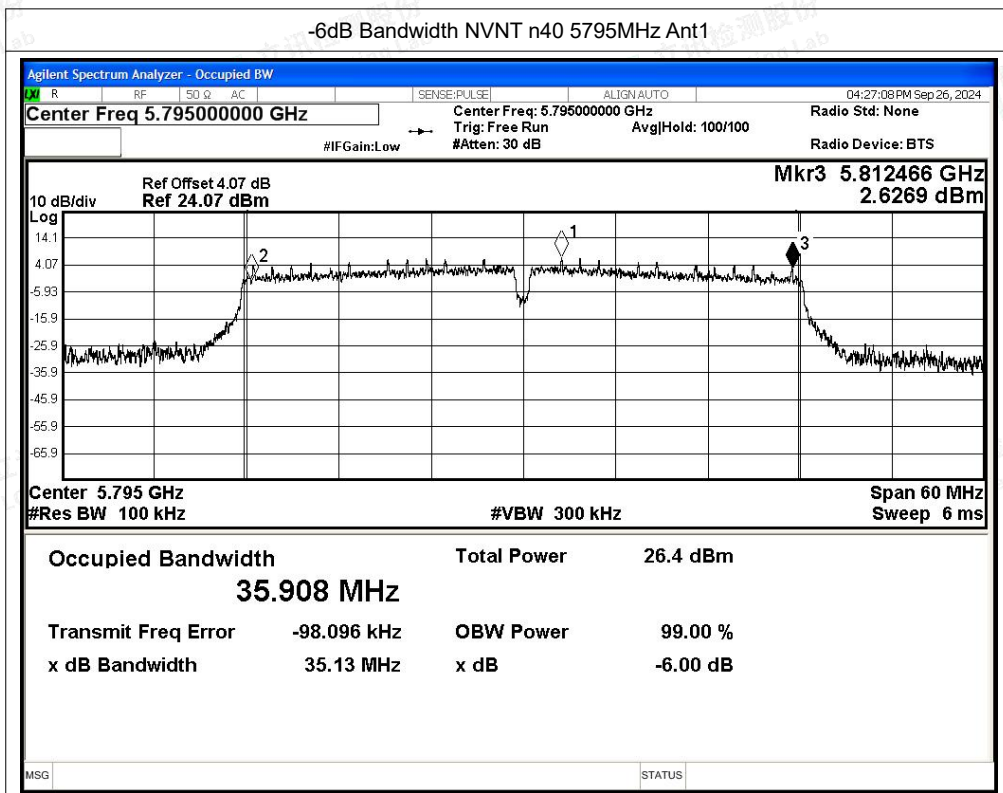


-6dB Bandwidth NVNT n20 5825MHz Ant1



-6dB Bandwidth NVNT n40 5755MHz Ant1





C.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	n20	5745	Ant1	20.43	0.18	20.61	30	Pass
NVNT	n20	5785	Ant1	20.4	0.18	20.58	30	Pass
NVNT	n20	5825	Ant1	19.6	0.18	19.78	30	Pass
NVNT	n40	5755	Ant1	20.36	0.35	20.71	30	Pass
NVNT	n40	5795	Ant1	19.86	0.36	20.22	30	Pass



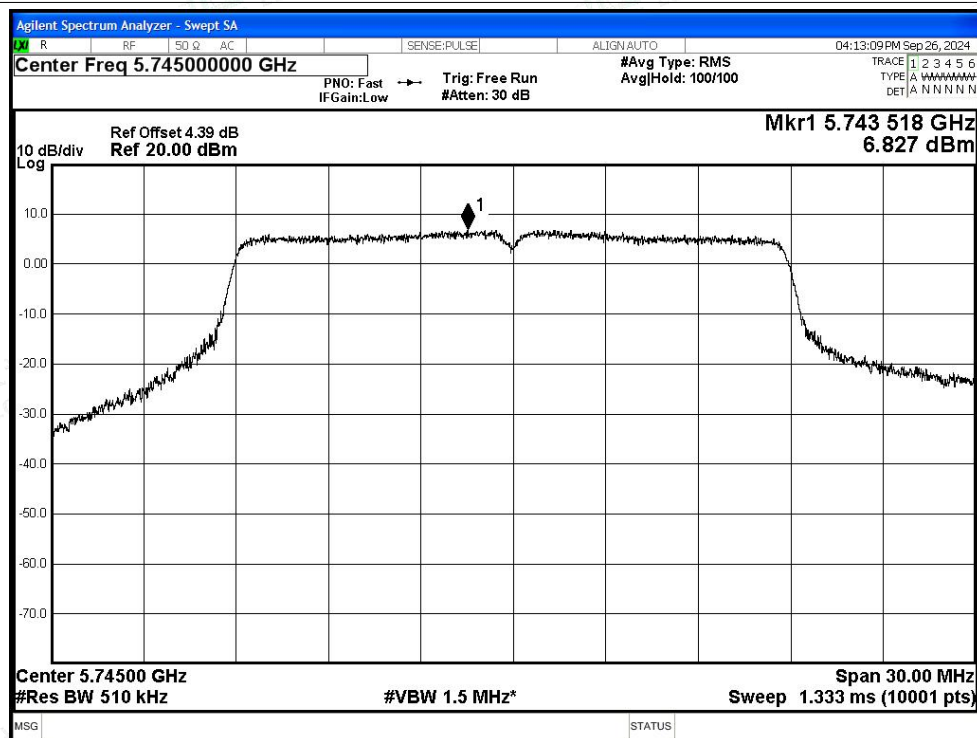
C.3 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	n20	5745	Ant1	6.83	0.18	7.01	30	Pass
NVNT	n20	5785	Ant1	7.37	0.18	7.55	30	Pass
NVNT	n20	5825	Ant1	6.05	0.18	6.23	30	Pass
NVNT	n40	5755	Ant1	4.46	0.35	4.81	30	Pass
NVNT	n40	5795	Ant1	4.45	0.36	4.81	30	Pass

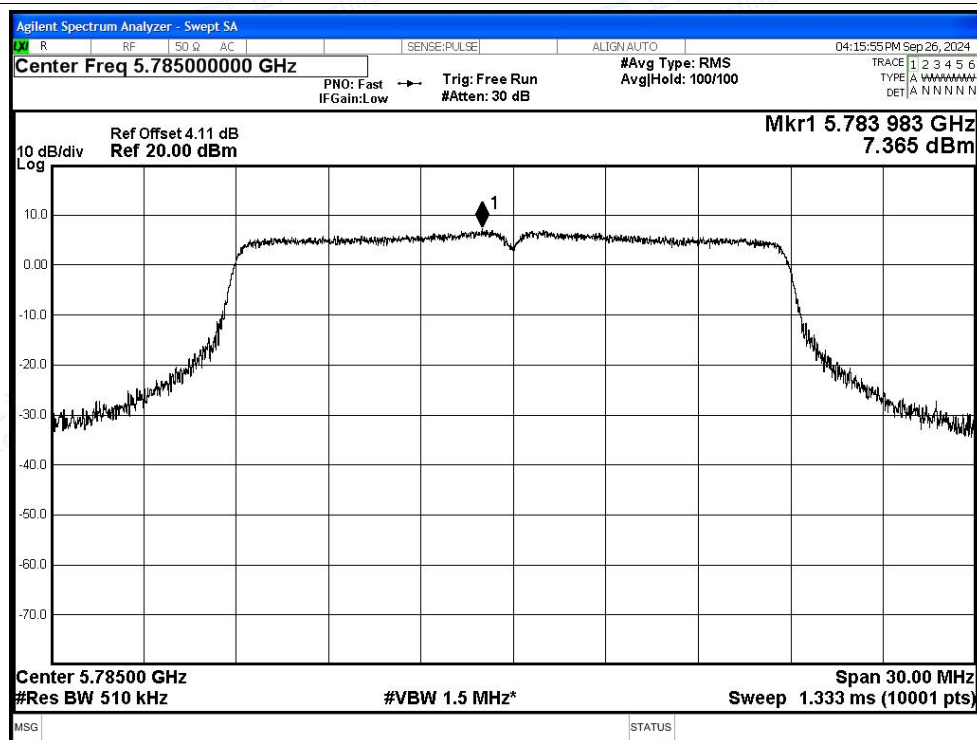


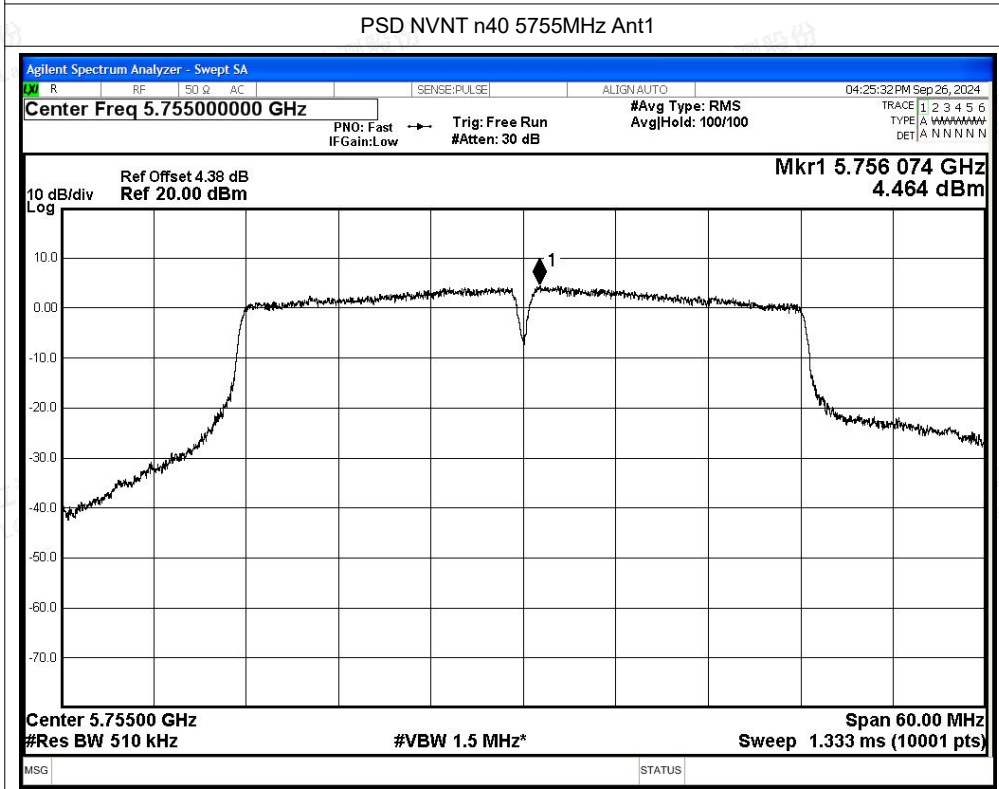
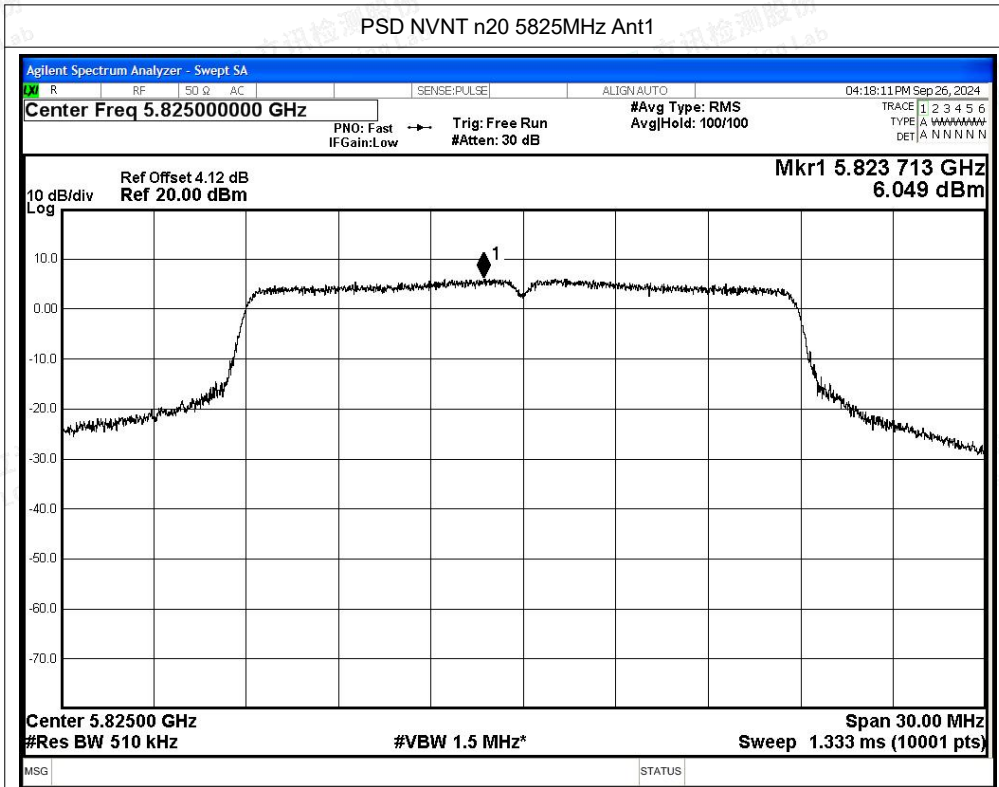
Test Graphs

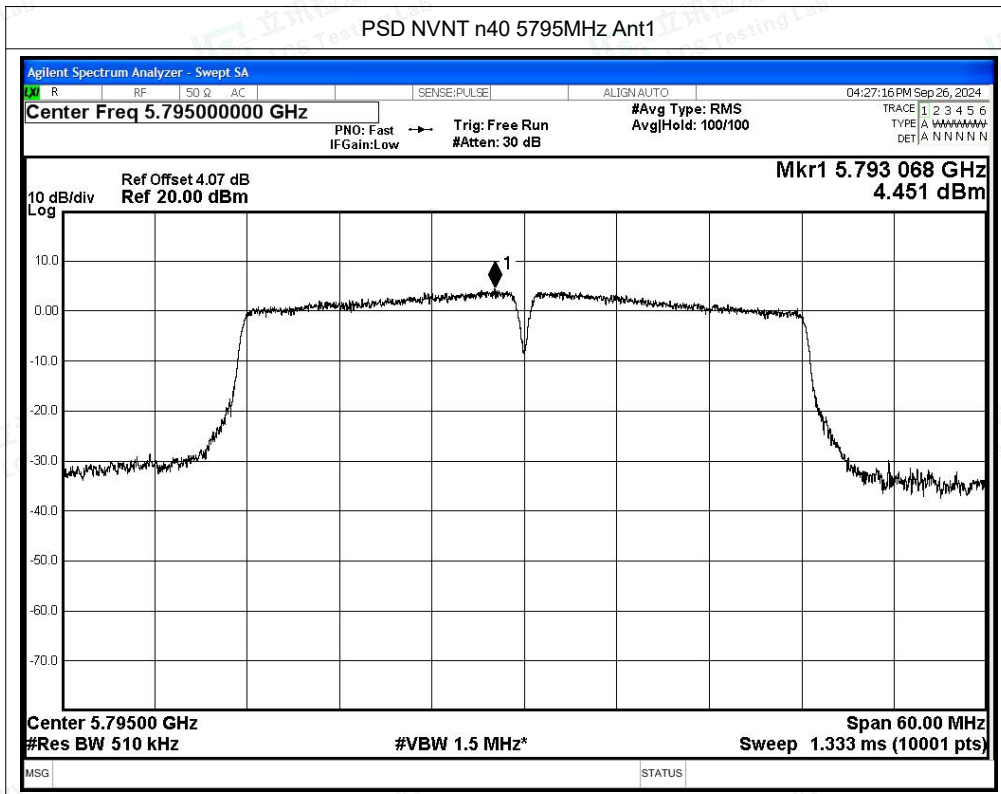
PSD NVNT n20 5745MHz Ant1



PSD NVNT n20 5785MHz Ant1







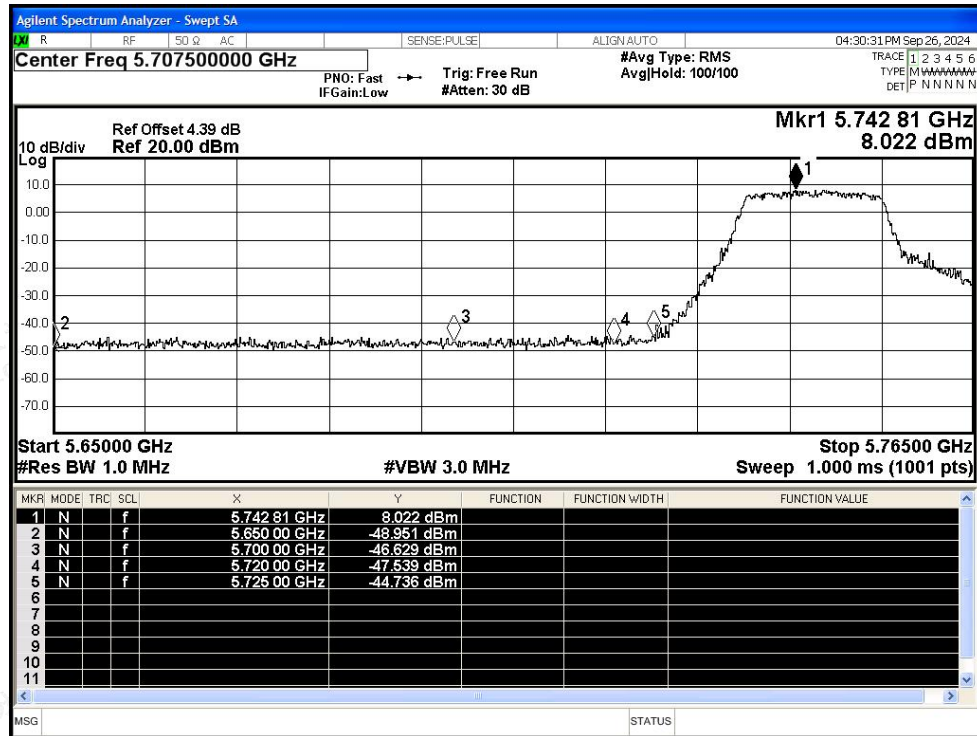
C.4 Restrict Band

Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	EIRP Power (dBm)	Detector	Limit (dBm)	Verdict
NVNT	n20	5745	Ant1	5650	-48.95	3.12	-	-45.83	Peak	-27	Pass
NVNT	n20	5745	Ant1	5650	-56.08	3.12	0.18	-52.78	Average	-27	Pass
NVNT	n20	5745	Ant1	5700	-46.63	3.12	-	-43.51	Peak	10	Pass
NVNT	n20	5745	Ant1	5700	-55.2	3.12	0.18	-51.9	Average	10	Pass
NVNT	n20	5745	Ant1	5720	-47.54	3.12	-	-44.42	Peak	15.6	Pass
NVNT	n20	5745	Ant1	5720	-54.76	3.12	0.18	-51.46	Average	15.6	Pass
NVNT	n20	5745	Ant1	5725	-44.74	3.12	-	-41.62	Peak	27	Pass
NVNT	n20	5745	Ant1	5725	-54.26	3.12	0.18	-50.96	Average	27	Pass
NVNT	n20	5825	Ant1	5850	-47.51	3.12	-	-44.39	Peak	27	Pass
NVNT	n20	5825	Ant1	5850	-55.29	3.12	0.18	-51.99	Average	27	Pass
NVNT	n20	5825	Ant1	5855	-46.87	3.12	-	-43.75	Peak	15.6	Pass
NVNT	n20	5825	Ant1	5855	-55.81	3.12	0.18	-52.51	Average	15.6	Pass
NVNT	n20	5825	Ant1	5875	-48.5	3.12	-	-45.38	Peak	10	Pass
NVNT	n20	5825	Ant1	5875	-55.75	3.12	0.18	-52.45	Average	10	Pass
NVNT	n20	5825	Ant1	5925	-47.09	3.12	-	-43.97	Peak	-27	Pass
NVNT	n20	5825	Ant1	5925	-55.98	3.12	0.18	-52.68	Average	-27	Pass
NVNT	n40	5755	Ant1	5650	-49.58	3.12	-	-46.46	Peak	-27	Pass
NVNT	n40	5755	Ant1	5650	-56.55	3.12	0.35	-53.08	Average	-27	Pass
NVNT	n40	5755	Ant1	5700	-47.38	3.12	-	-44.26	Peak	10	Pass
NVNT	n40	5755	Ant1	5700	-55.35	3.12	0.35	-51.88	Average	10	Pass
NVNT	n40	5755	Ant1	5720	-46.09	3.12	-	-42.97	Peak	15.6	Pass
NVNT	n40	5755	Ant1	5720	-54.4	3.12	0.35	-50.93	Average	15.6	Pass
NVNT	n40	5755	Ant1	5725	-42.08	3.12	-	-38.96	Peak	27	Pass
NVNT	n40	5755	Ant1	5725	-50.43	3.12	0.35	-46.96	Average	27	Pass
NVNT	n40	5795	Ant1	5850	-47.61	3.12	-	-44.49	Peak	27	Pass
NVNT	n40	5795	Ant1	5850	-56	3.12	0.36	-52.52	Average	27	Pass
NVNT	n40	5795	Ant1	5855	-48.73	3.12	-	-45.61	Peak	15.6	Pass
NVNT	n40	5795	Ant1	5855	-56.9	3.12	0.36	-53.42	Average	15.6	Pass
NVNT	n40	5795	Ant1	5875	-47.98	3.12	-	-44.86	Peak	10	Pass
NVNT	n40	5795	Ant1	5875	-55.82	3.12	0.36	-52.34	Average	10	Pass
NVNT	n40	5795	Ant1	5925	-48.11	3.12	-	-44.99	Peak	-27	Pass
NVNT	n40	5795	Ant1	5925	-56.25	3.12	0.36	-52.77	Average	-27	Pass

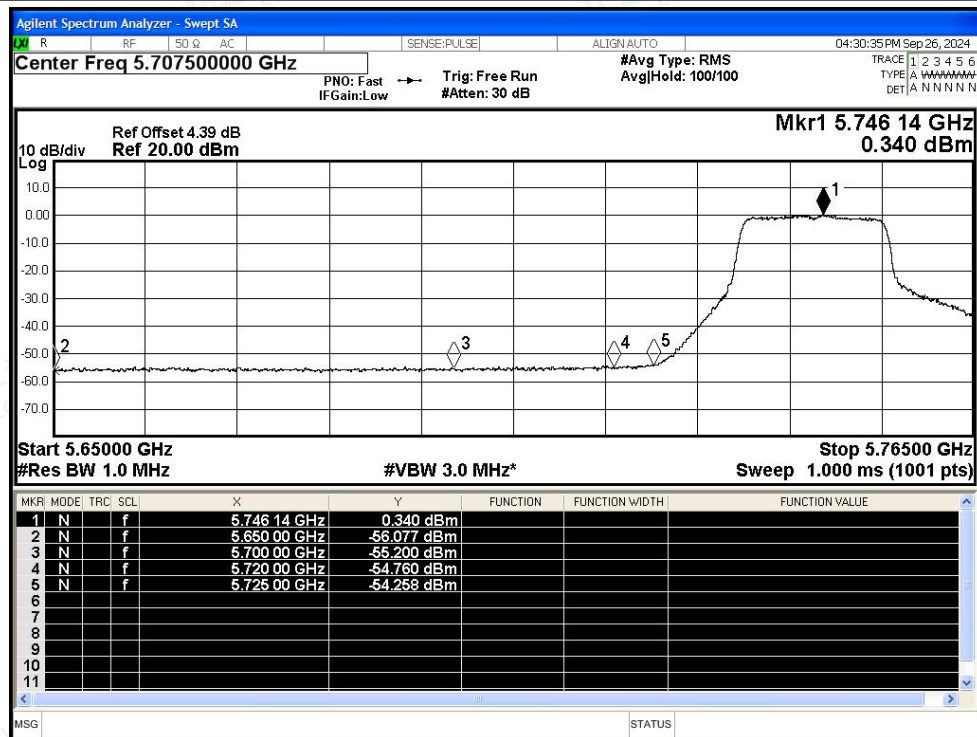


Test Graphs

Restrict Band NVNT n20 5745MHz Ant1 Peak



Restrict Band NVNT n20 5745MHz Ant1 Average

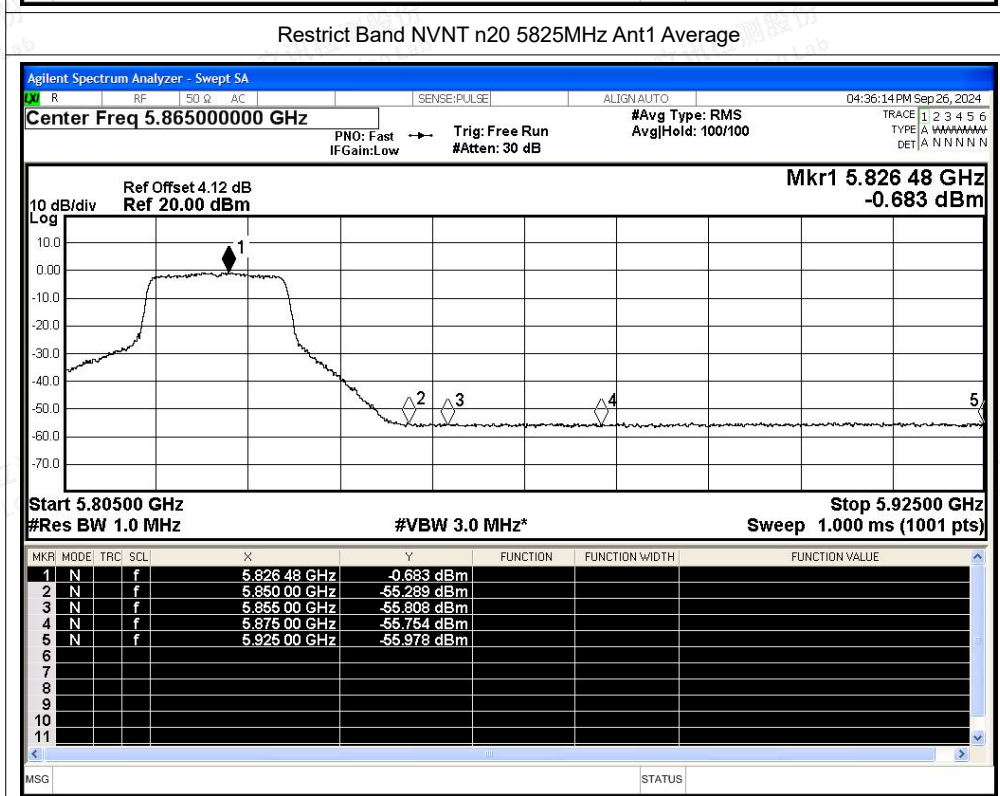
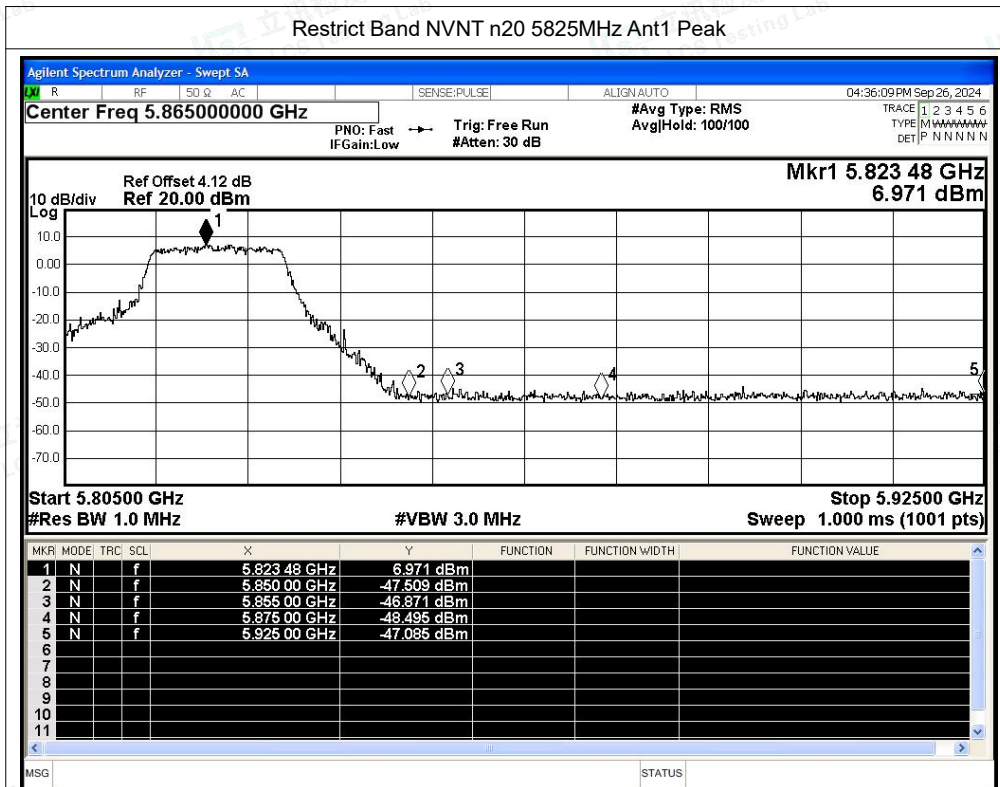


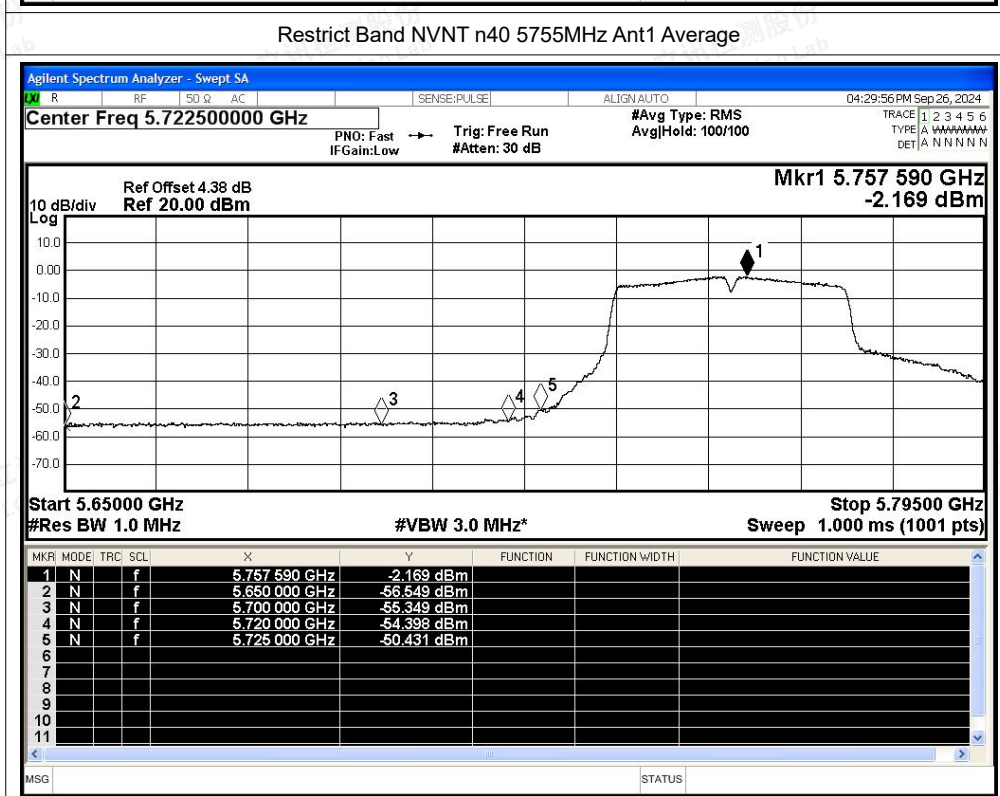
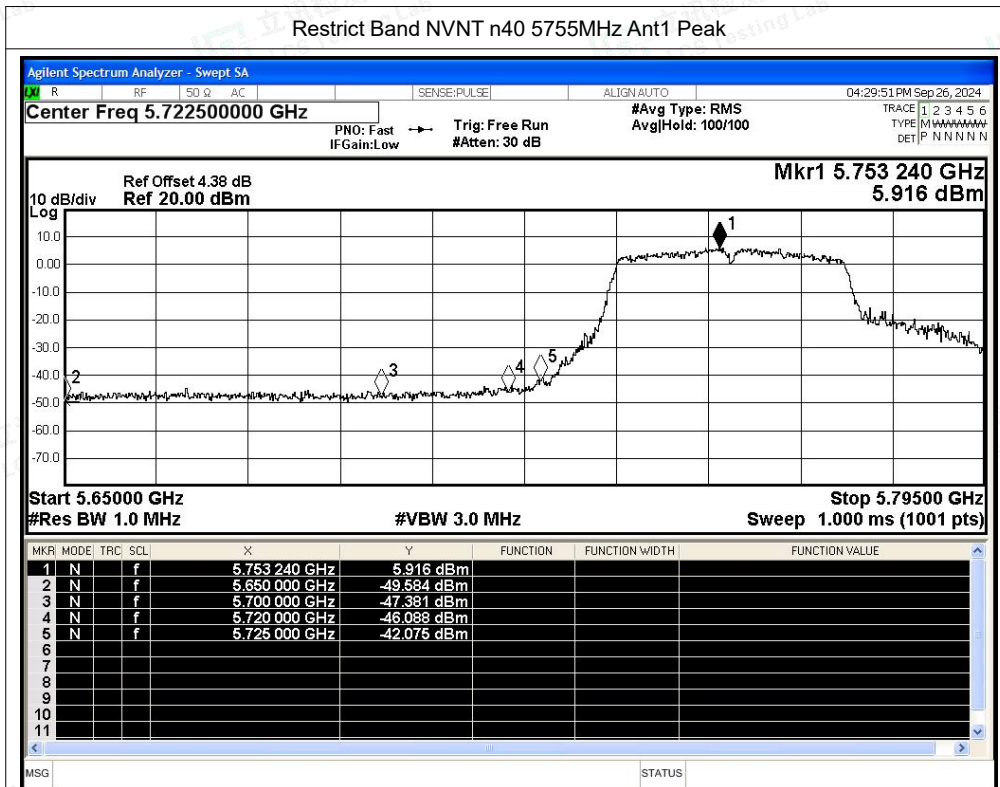
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Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

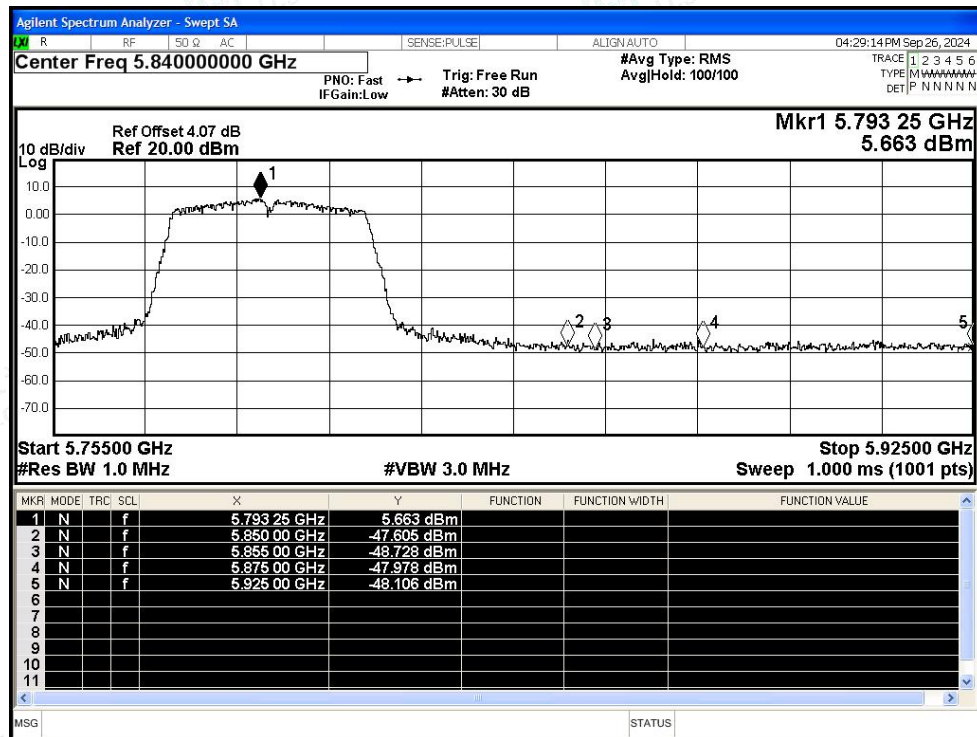
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity

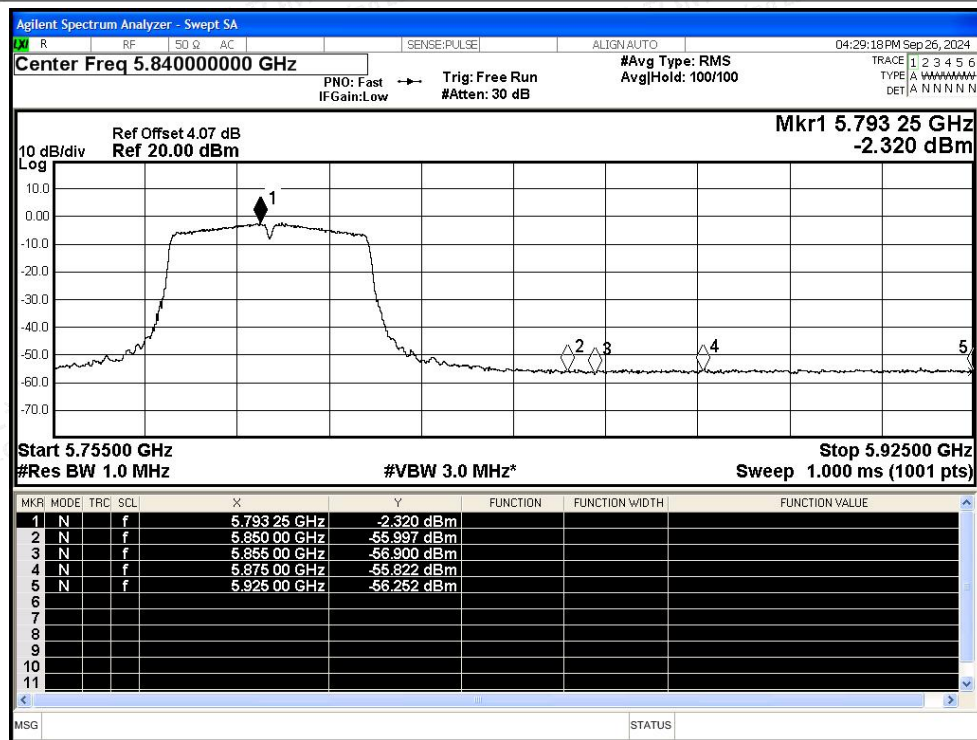




Restrict Band NVNT n40 5795MHz Ant1 Peak



Restrict Band NVNT n40 5795MHz Ant1 Average



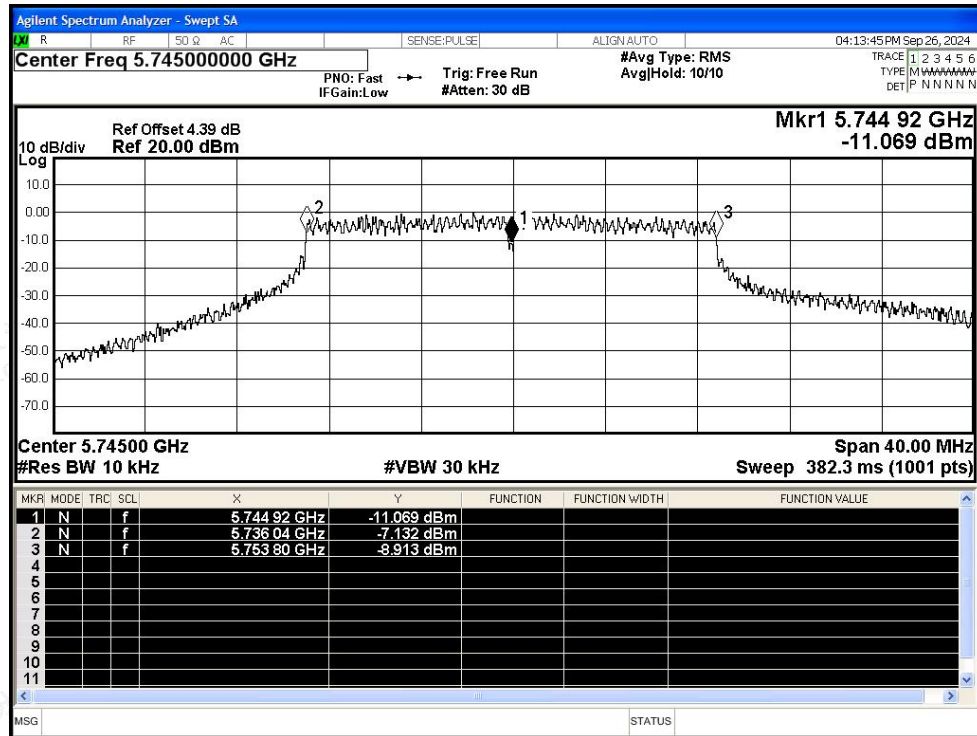
C.5 Frequency Stability

Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	n20	5745	Ant1	5744.92	-80000	-13.93	25	Pass
NVNT	n20	5785	Ant1	5784.92	-80000	-13.83	25	Pass
NVNT	n20	5825	Ant1	5824.94	-60000	-10.3	25	Pass
NVNT	n40	5755	Ant1	5754.92	-80000	-13.9	25	Pass
NVNT	n40	5795	Ant1	5794.92	-80000	-13.81	25	Pass

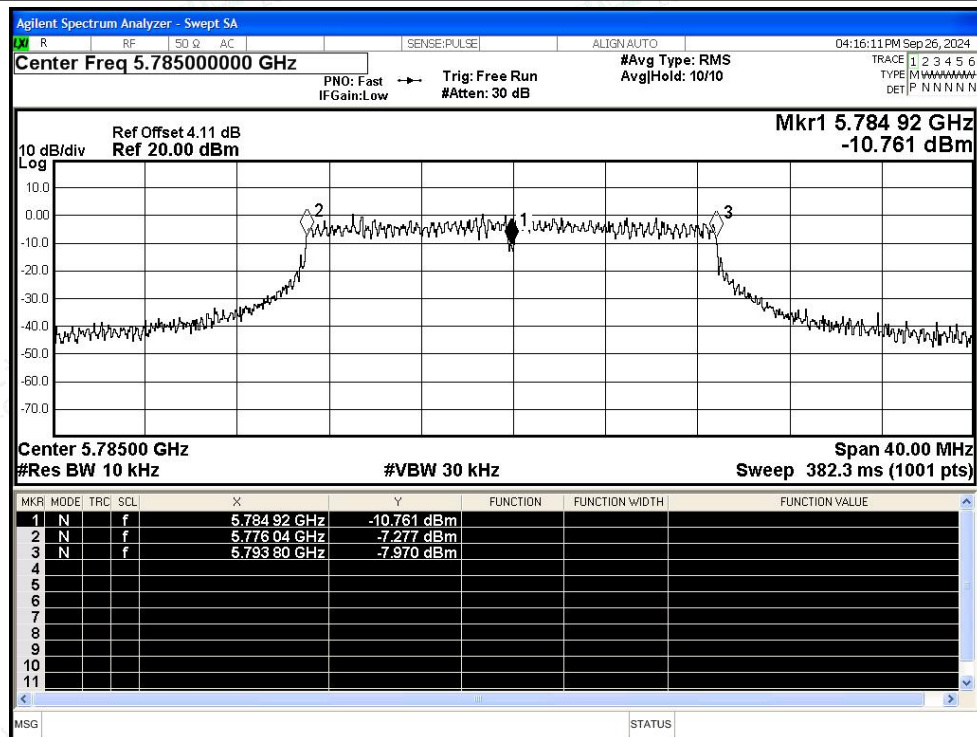


Test Graphs

Freq. Stability NVNT n20 5745MHz Ant1



Freq. Stability NVNT n20 5785MHz Ant1



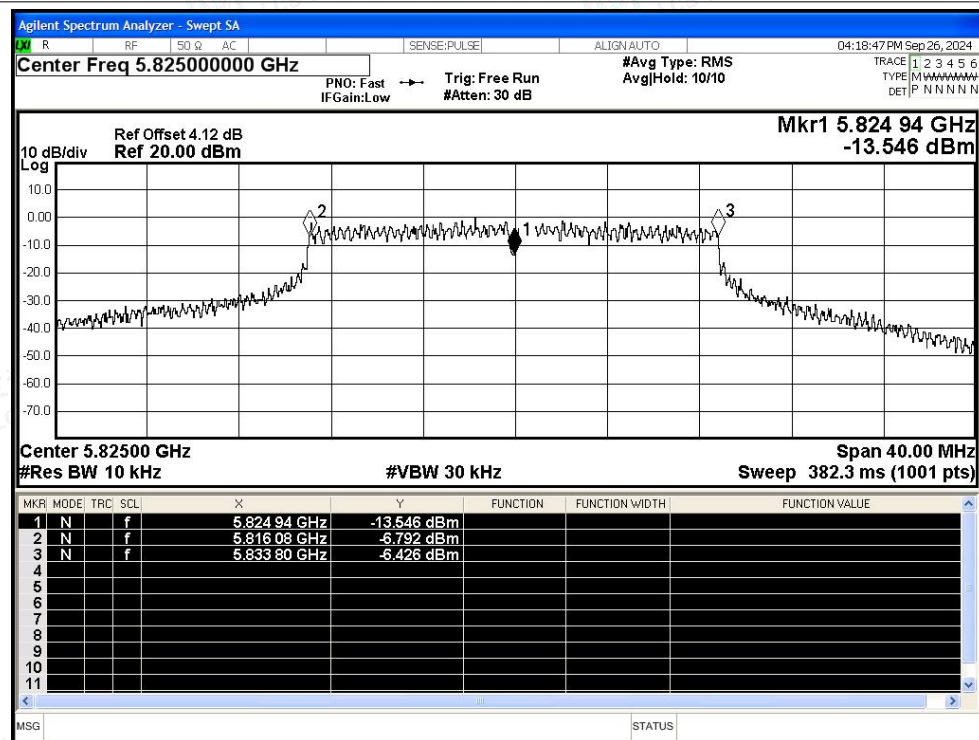
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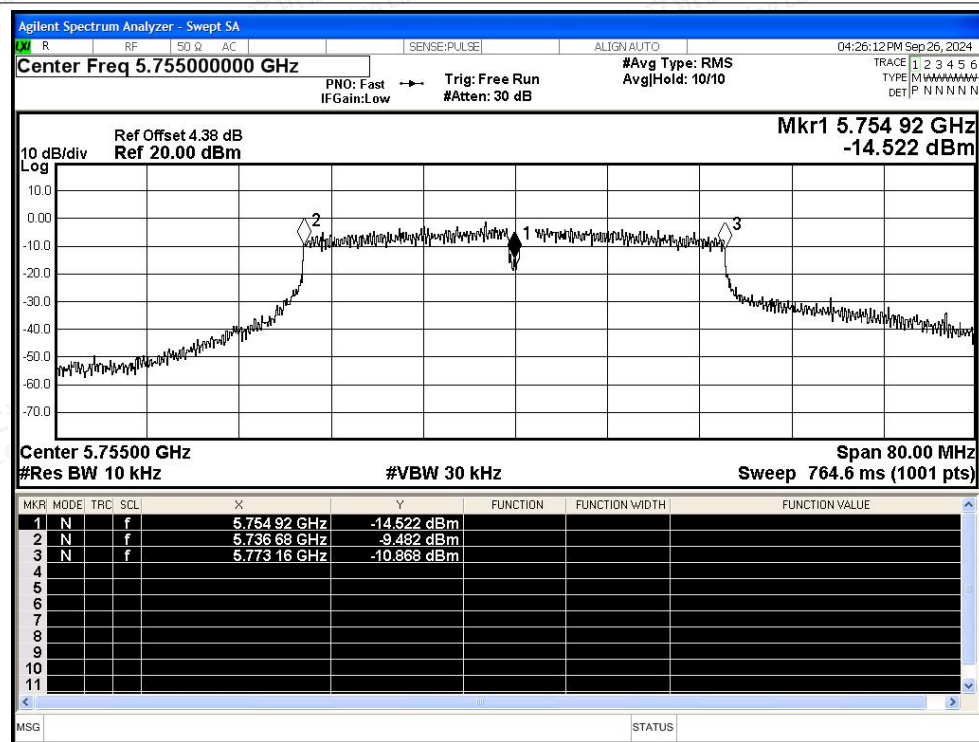
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

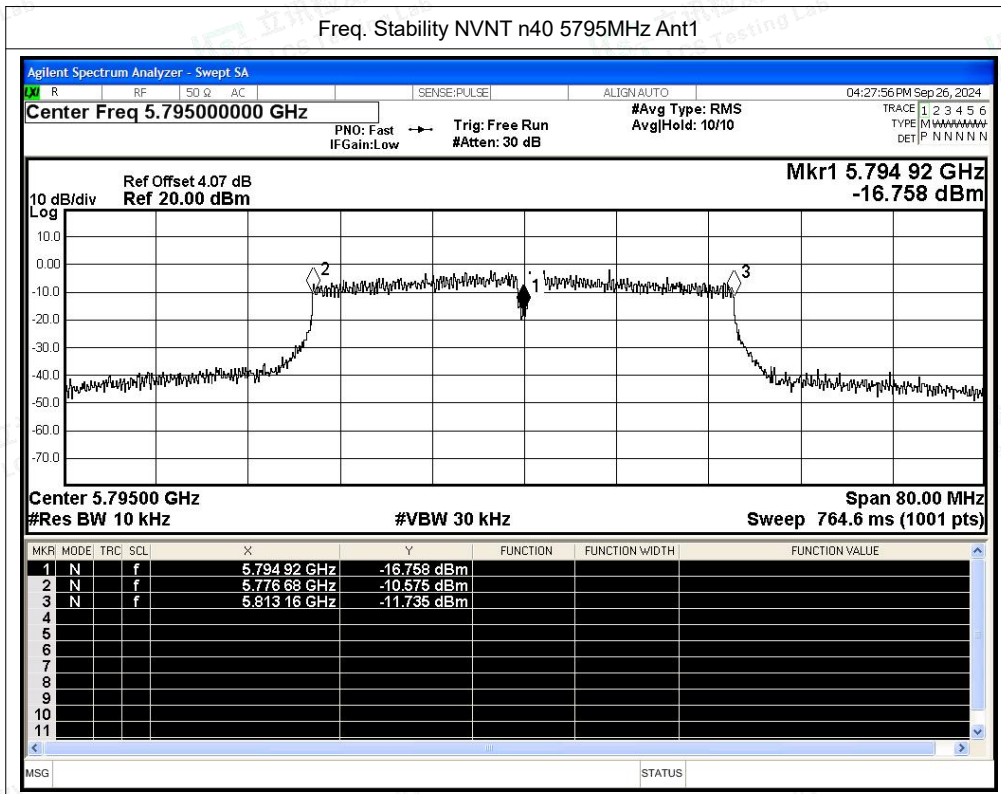
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Freq. Stability NVNT n20 5825MHz Ant1



Freq. Stability NVNT n40 5755MHz Ant1





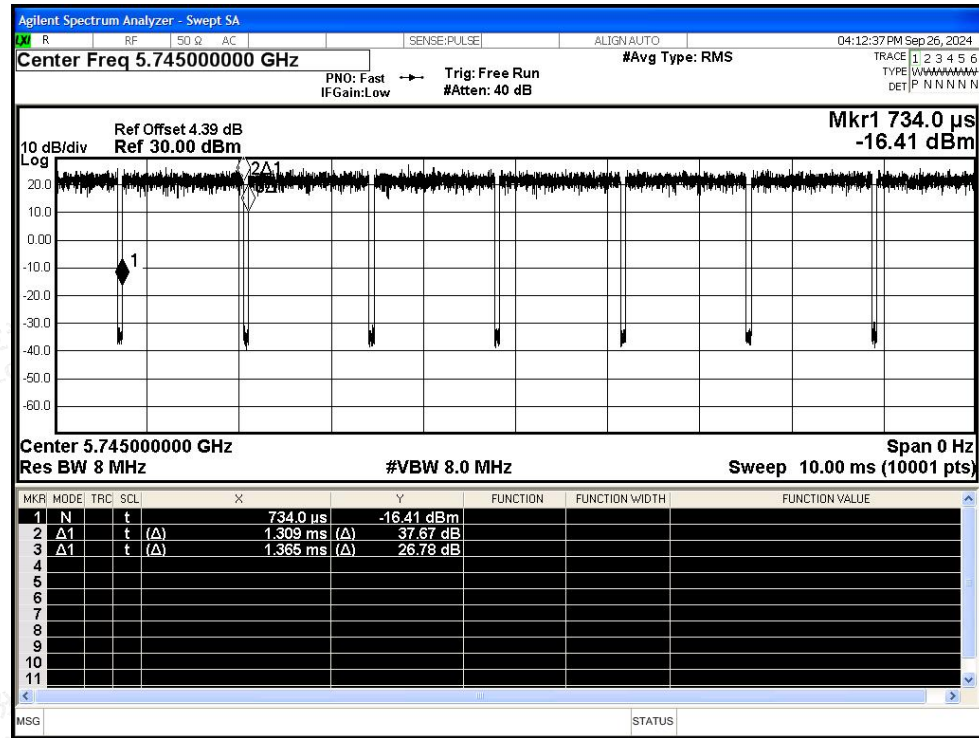
C.6 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	n20	5745	Ant1	95.9	0.18	0.76
NVNT	n20	5785	Ant1	95.9	0.18	0.76
NVNT	n20	5825	Ant1	95.9	0.18	0.76
NVNT	n40	5755	Ant1	92.2	0.35	1.54
NVNT	n40	5795	Ant1	92.06	0.36	1.54

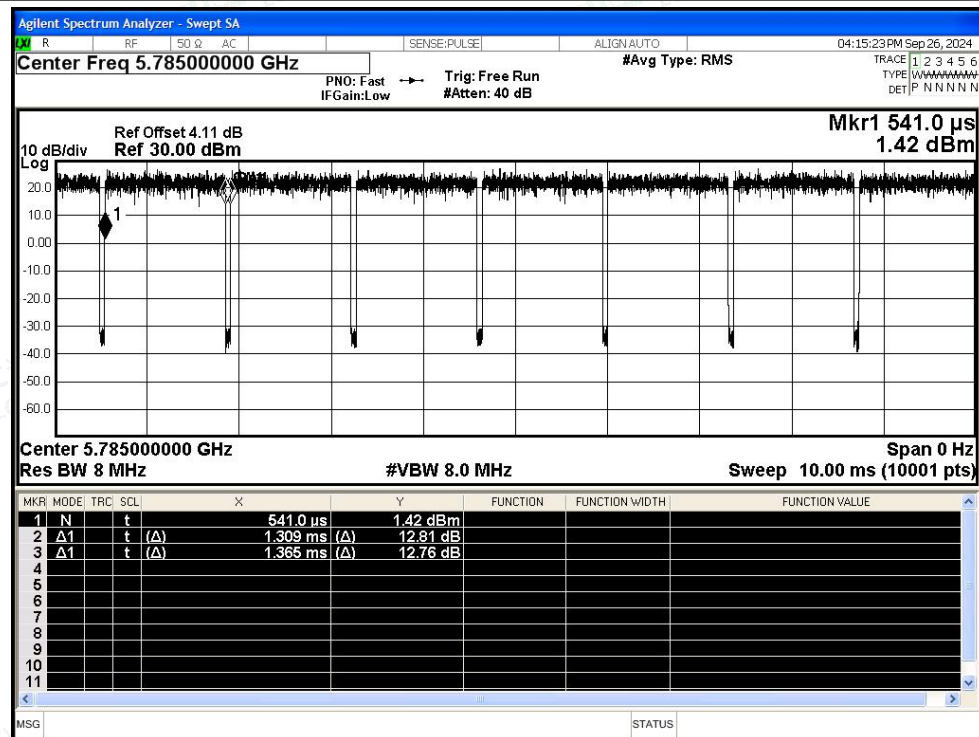


Test Graphs

Duty Cycle NVNT n20 5745MHz Ant1



Duty Cycle NVNT n20 5785MHz Ant1



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