



Appendix E

RF Test Data for 5.8GWIFI(Conducted Measurement)

Product Name: AI BOX

Test Model: LMAB079-WIFI

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 -6dB Bandwidth

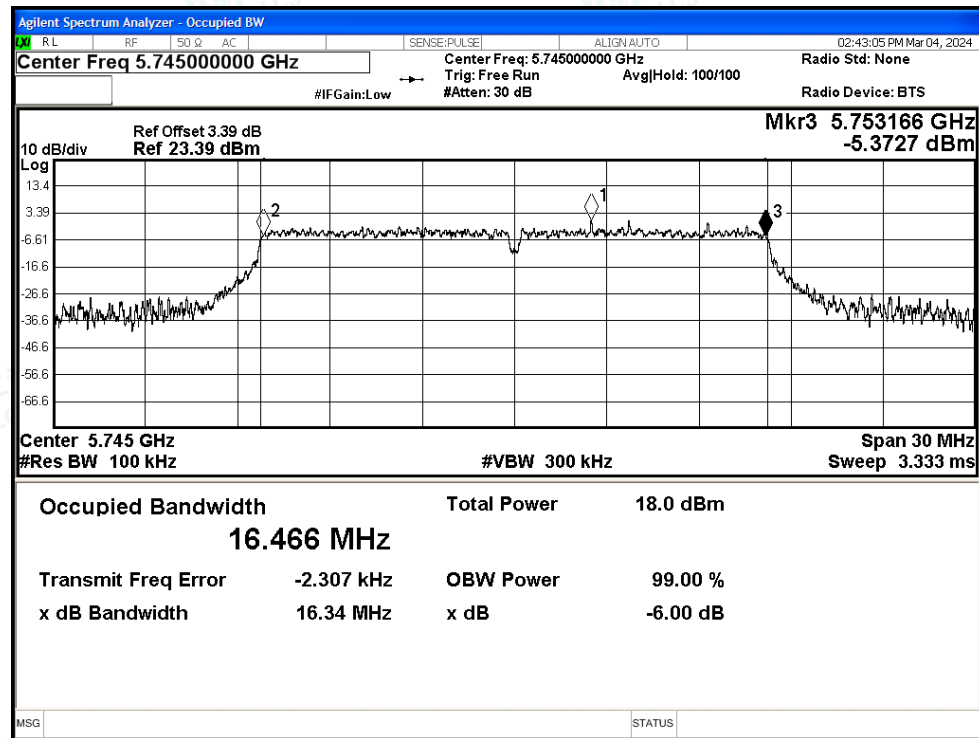
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	a	5745	Ant	16.337	≥ 0.5	Pass
NVNT	a	5785	Ant	16.341	≥ 0.5	Pass
NVNT	a	5825	Ant	16.369	≥ 0.5	Pass
NVNT	n20	5745	Ant	17.238	≥ 0.5	Pass
NVNT	n20	5785	Ant	17.268	≥ 0.5	Pass
NVNT	n20	5825	Ant	17.28	≥ 0.5	Pass
NVNT	n40	5755	Ant	35.75	≥ 0.5	Pass
NVNT	n40	5795	Ant	35.725	≥ 0.5	Pass
NVNT	ac20	5745	Ant	17.412	≥ 0.5	Pass
NVNT	ac20	5785	Ant	17.419	≥ 0.5	Pass
NVNT	ac20	5825	Ant	17.509	≥ 0.5	Pass
NVNT	ac40	5755	Ant	35.994	≥ 0.5	Pass
NVNT	ac40	5795	Ant	35.607	≥ 0.5	Pass
NVNT	ac80	5775	Ant	75.594	≥ 0.5	Pass



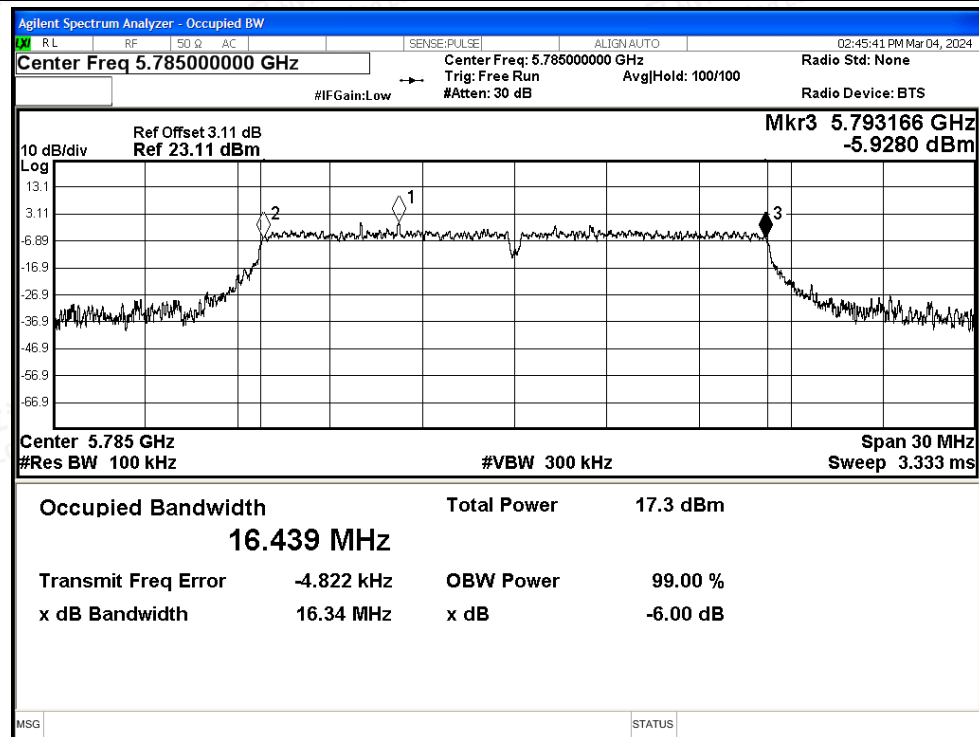


Test Graphs

-6dB Bandwidth NVNT a 5745MHz Ant



-6dB Bandwidth NVNT a 5785MHz Ant

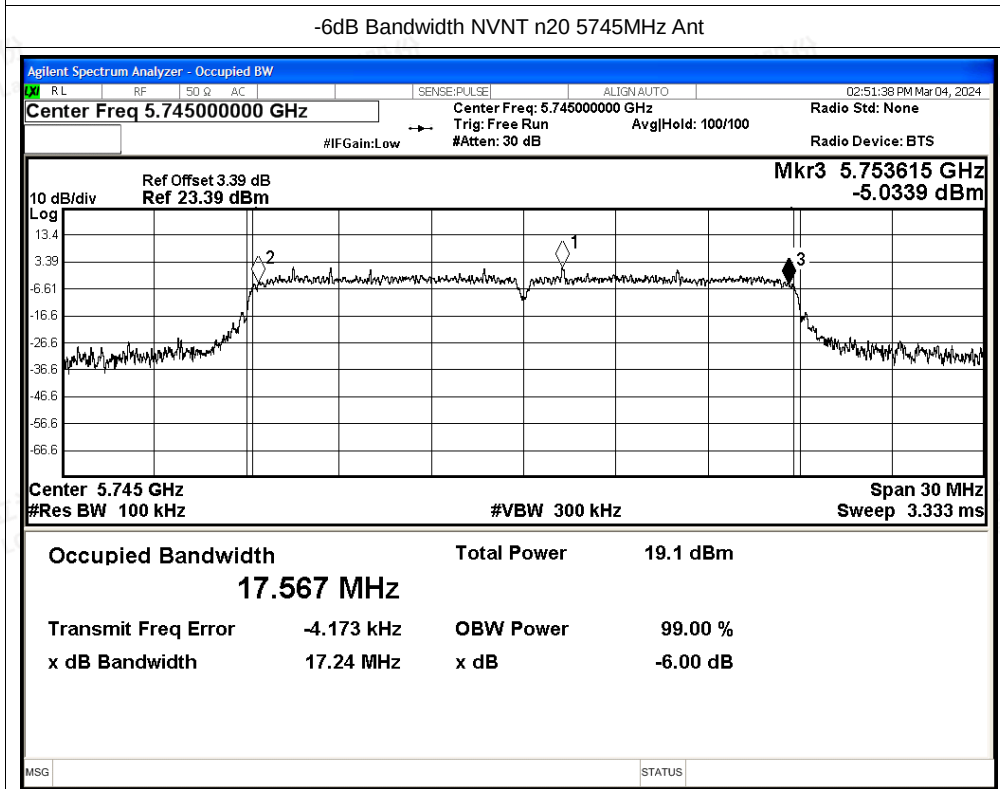
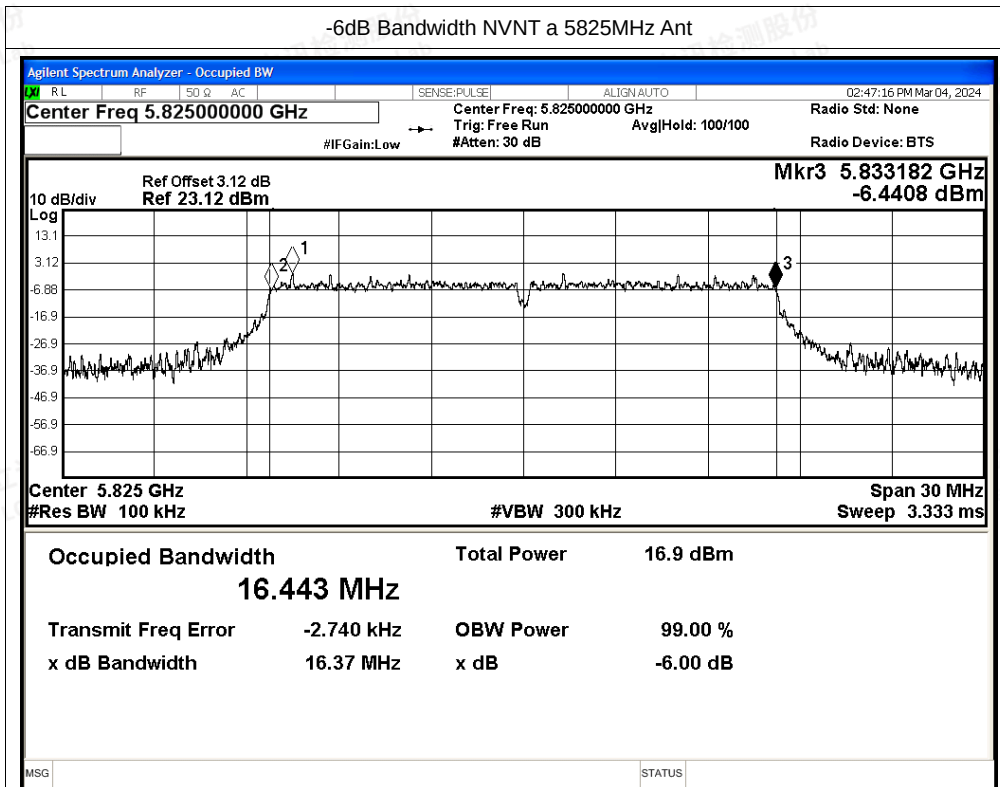


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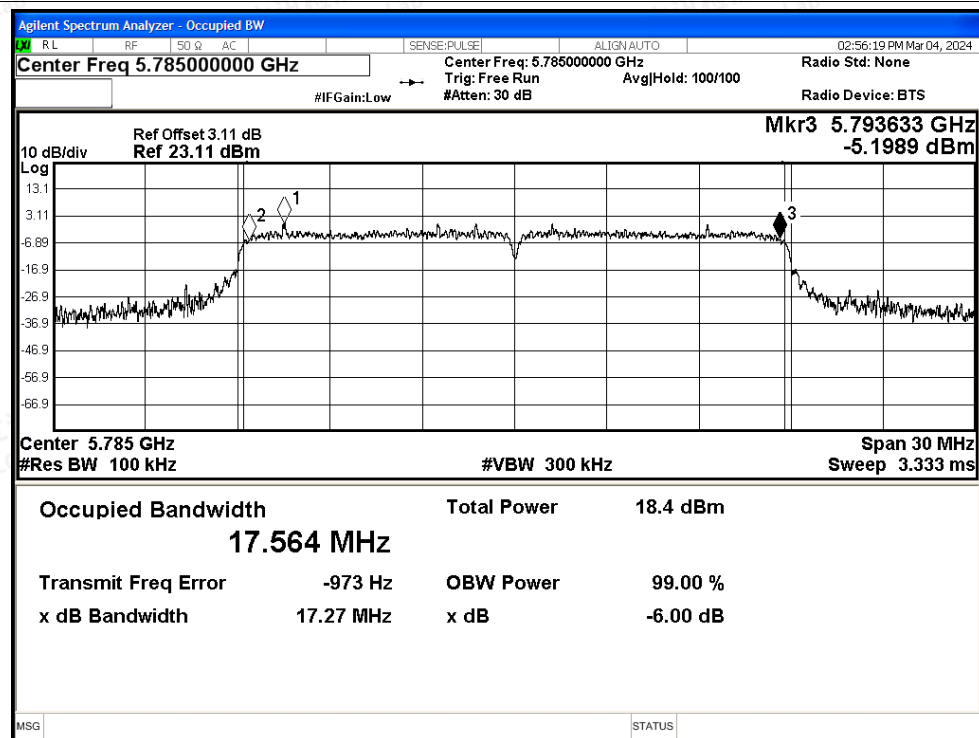
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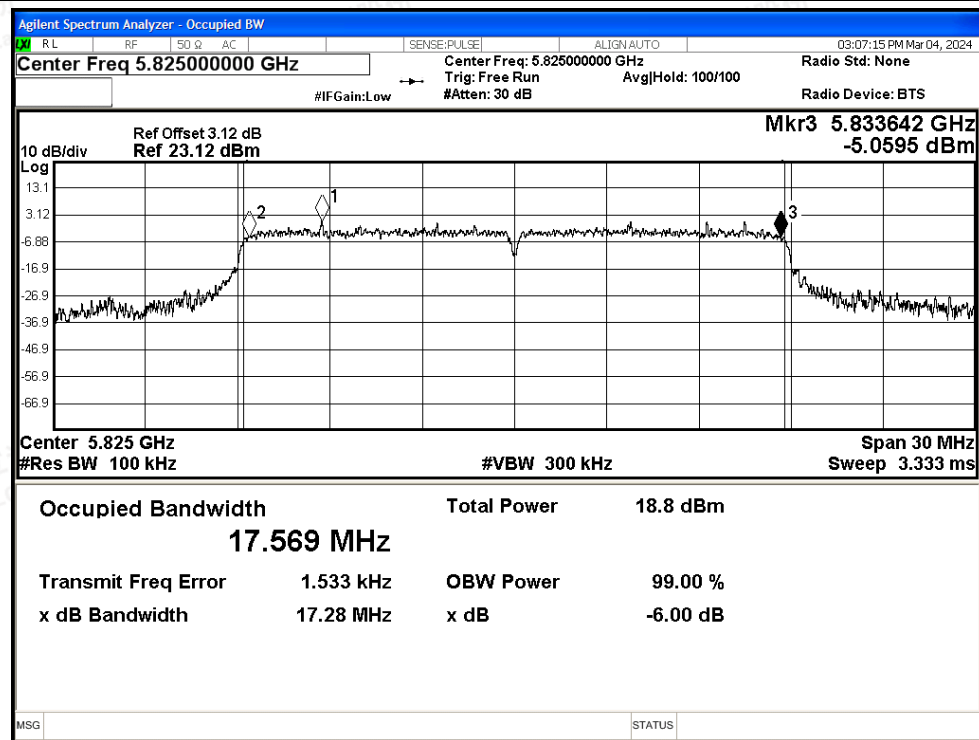
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-6dB Bandwidth NVNT n20 5785MHz Ant



-6dB Bandwidth NVNT n20 5825MHz Ant



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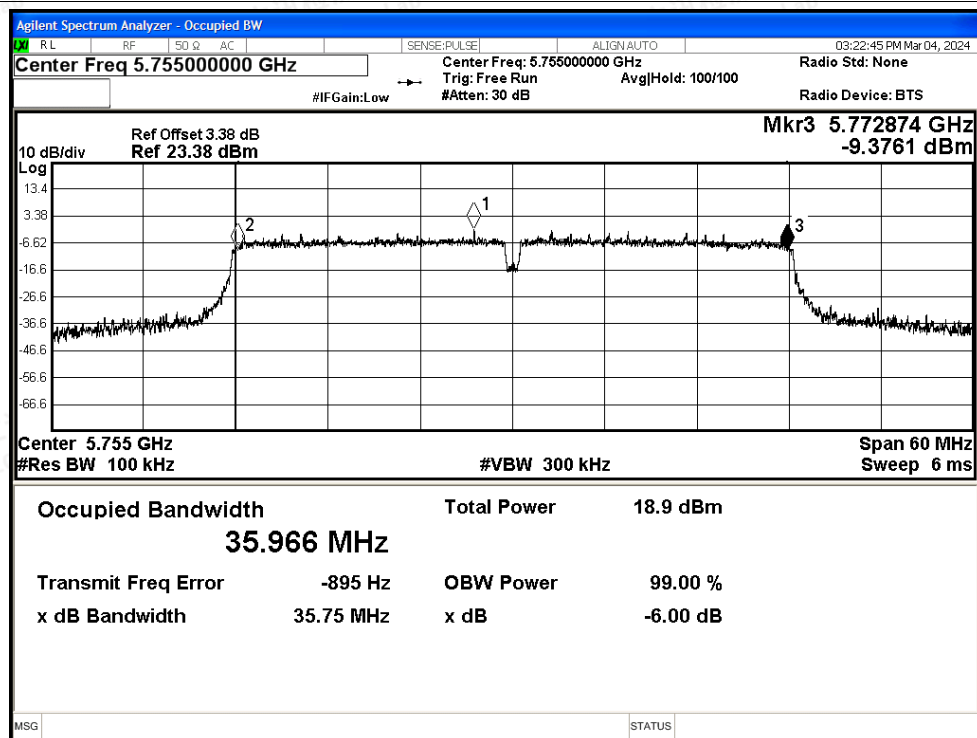
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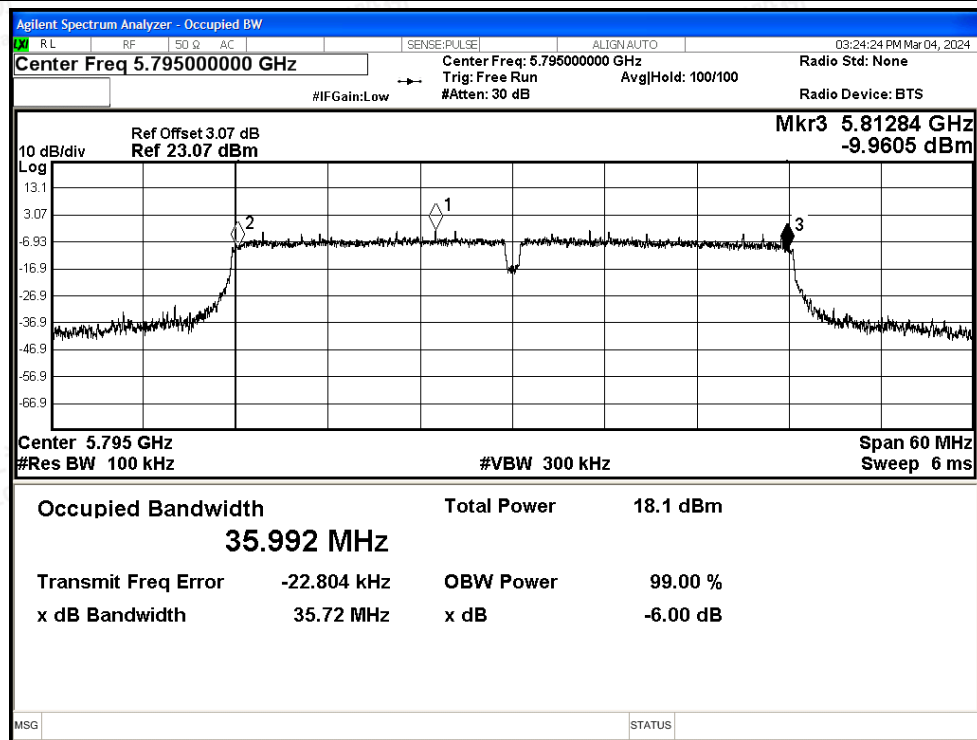
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-6dB Bandwidth NVNT n40 5755MHz Ant



-6dB Bandwidth NVNT n40 5795MHz Ant

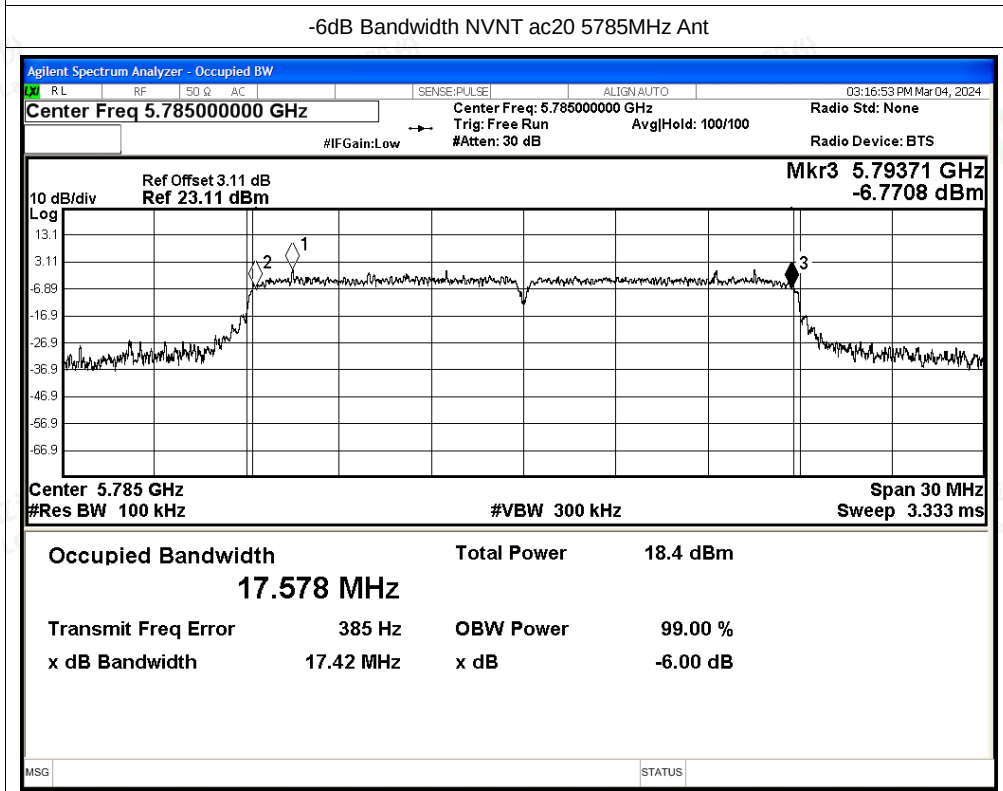
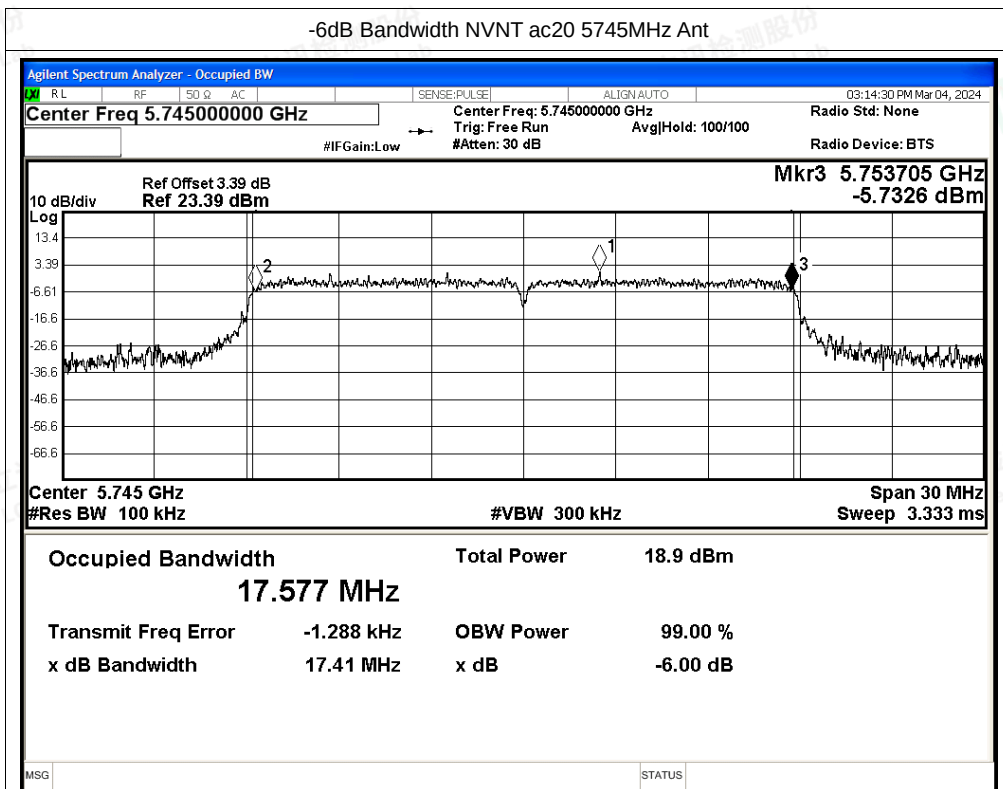


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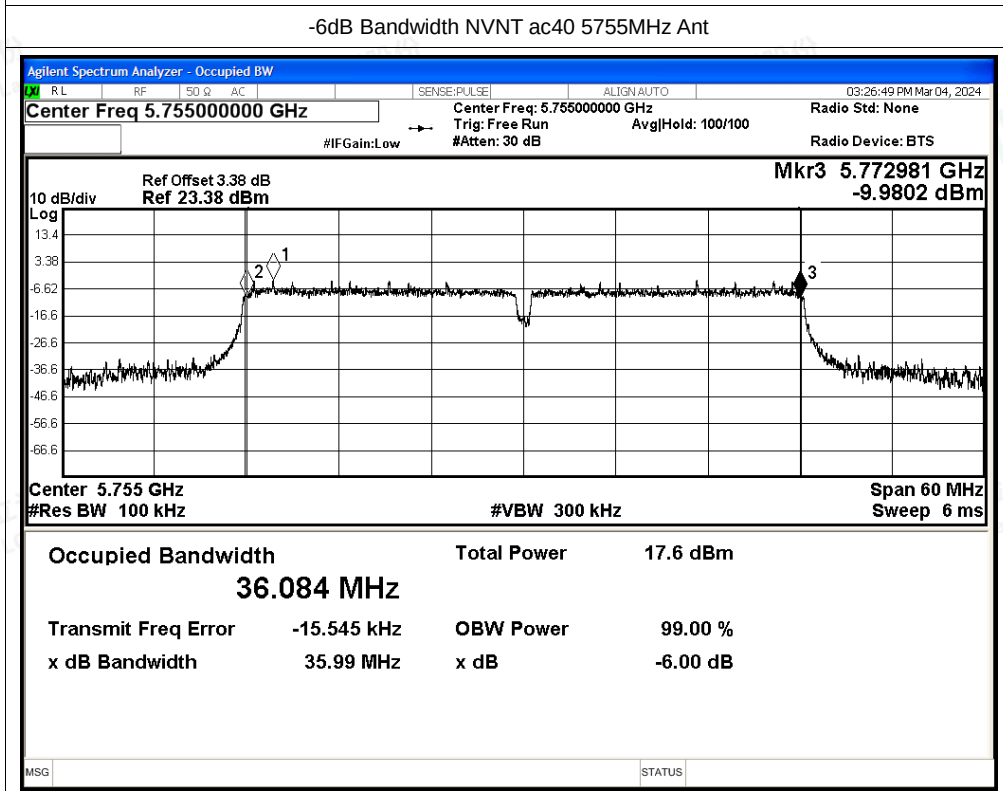
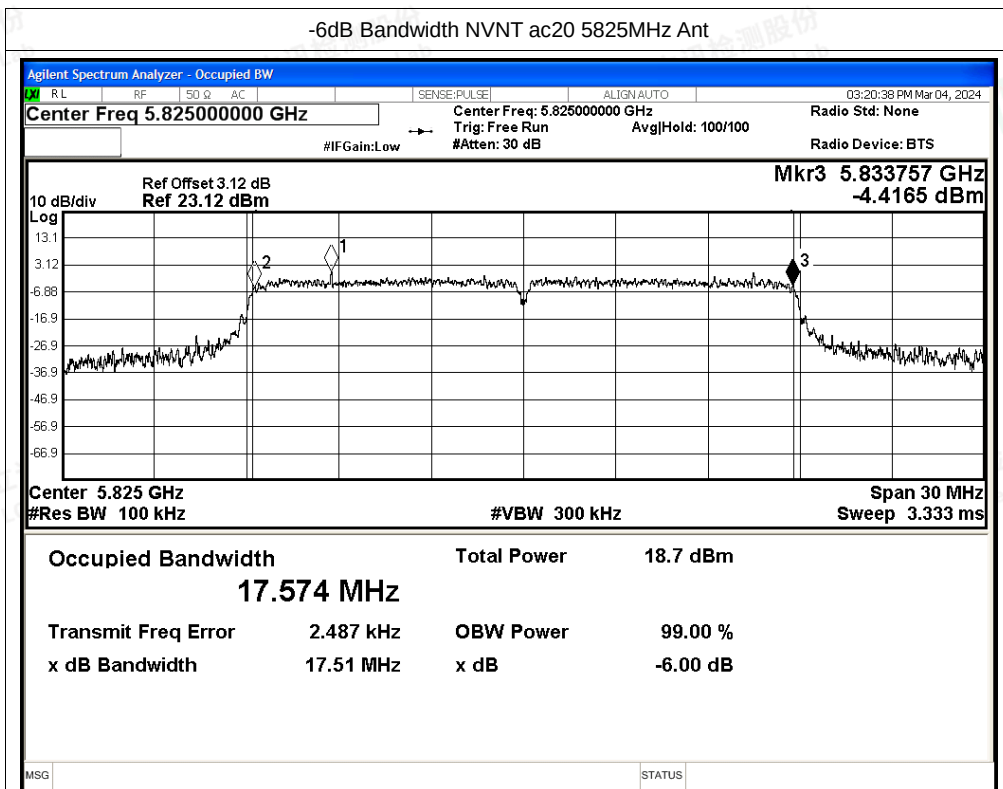


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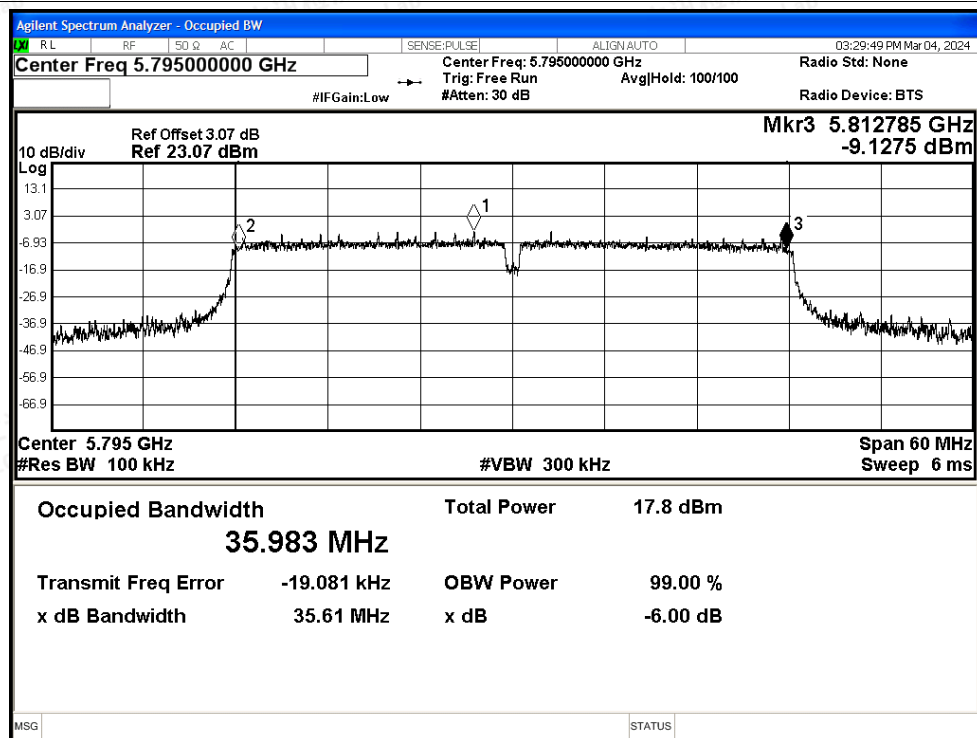
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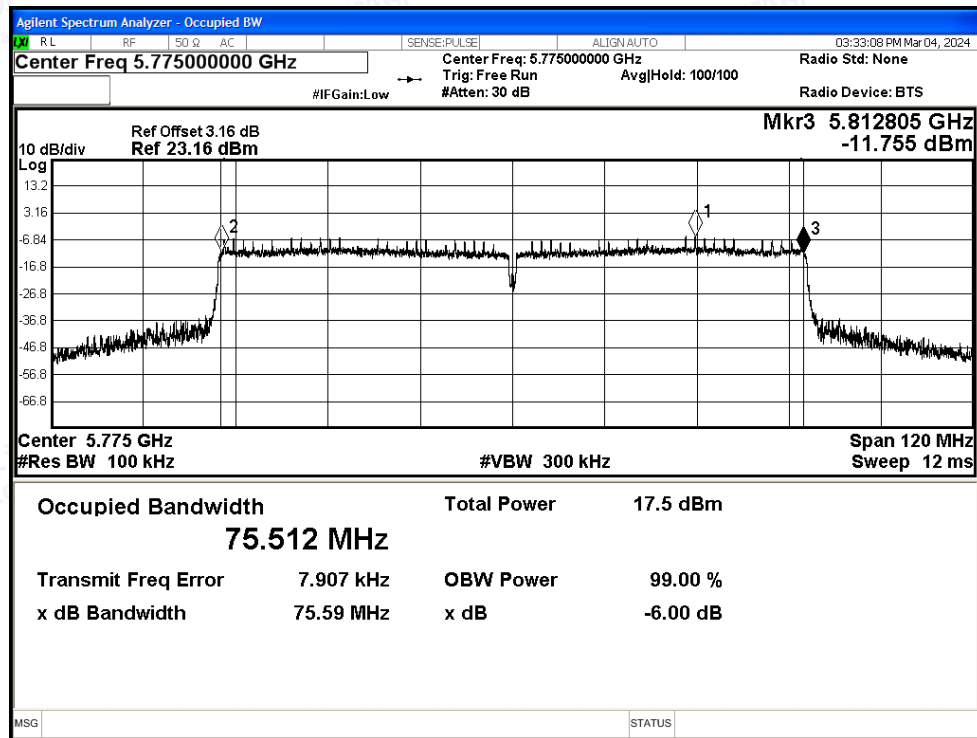
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-6dB Bandwidth NVNT ac40 5795MHz Ant



-6dB Bandwidth NVNT ac80 5775MHz Ant



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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	12.26	0.1	12.36	30	Pass
NVNT	a	5785	Ant	12.84	0.1	12.94	30	Pass
NVNT	a	5825	Ant	12.95	0.1	13.05	30	Pass
NVNT	n20	5745	Ant	12.44	0.12	12.56	30	Pass
NVNT	n20	5785	Ant	12.34	0.12	12.46	30	Pass
NVNT	n20	5825	Ant	12.59	0.12	12.71	30	Pass
NVNT	n40	5755	Ant	11.93	0.24	12.17	30	Pass
NVNT	n40	5795	Ant	11.11	0.24	11.35	30	Pass
NVNT	ac20	5745	Ant	12.8	0.12	12.92	30	Pass
NVNT	ac20	5785	Ant	12.26	0.12	12.38	30	Pass
NVNT	ac20	5825	Ant	12.62	0.12	12.74	30	Pass
NVNT	ac40	5755	Ant	11.05	0.24	11.29	30	Pass
NVNT	ac40	5795	Ant	11.24	0.24	11.48	30	Pass
NVNT	ac80	5775	Ant	10.42	0.47	10.89	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/500KHz)	Verdict
NVNT	a	5745	Ant	-1.41	0.1	-1.31	30	Pass
NVNT	a	5785	Ant	-2.14	0.1	-2.04	30	Pass
NVNT	a	5825	Ant	-2.33	0.1	-2.23	30	Pass
NVNT	n20	5745	Ant	-0.73	0.12	-0.61	30	Pass
NVNT	n20	5785	Ant	-1.6	0.12	-1.48	30	Pass
NVNT	n20	5825	Ant	-1.3	0.12	-1.18	30	Pass
NVNT	n40	5755	Ant	-4.15	0.24	-3.91	30	Pass
NVNT	n40	5795	Ant	-5.3	0.24	-5.06	30	Pass
NVNT	ac20	5745	Ant	-1.17	0.12	-1.05	30	Pass
NVNT	ac20	5785	Ant	-1.68	0.12	-1.56	30	Pass
NVNT	ac20	5825	Ant	-1.34	0.12	-1.22	30	Pass
NVNT	ac40	5755	Ant	-5.78	0.24	-5.54	30	Pass
NVNT	ac40	5795	Ant	-5.46	0.24	-5.22	30	Pass
NVNT	ac80	5775	Ant	-9.31	0.47	-8.84	30	Pass



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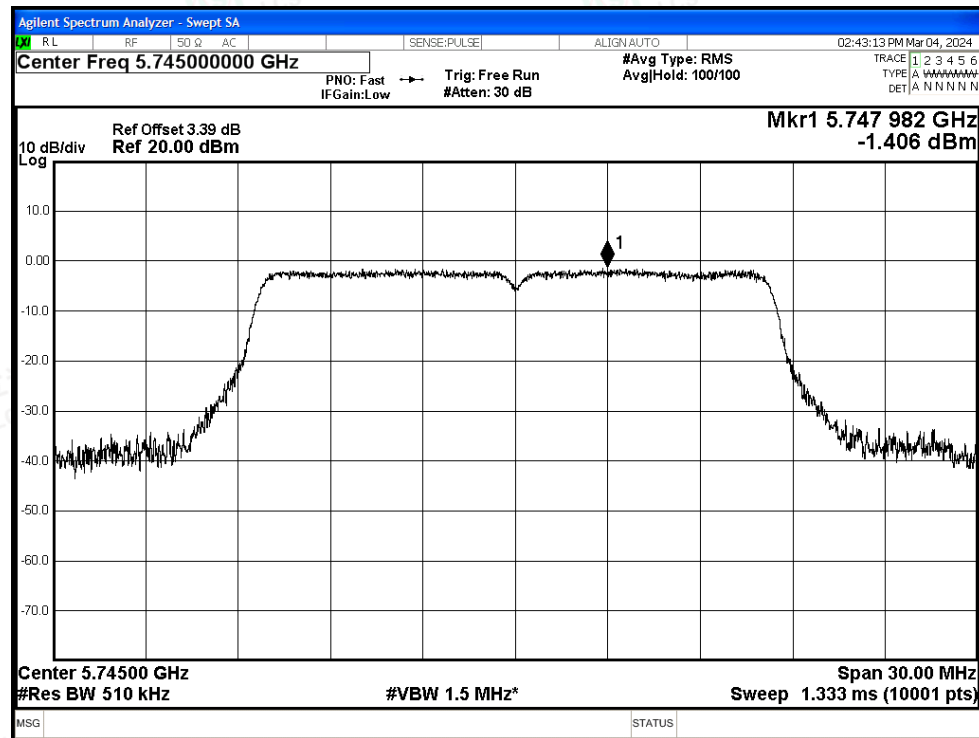
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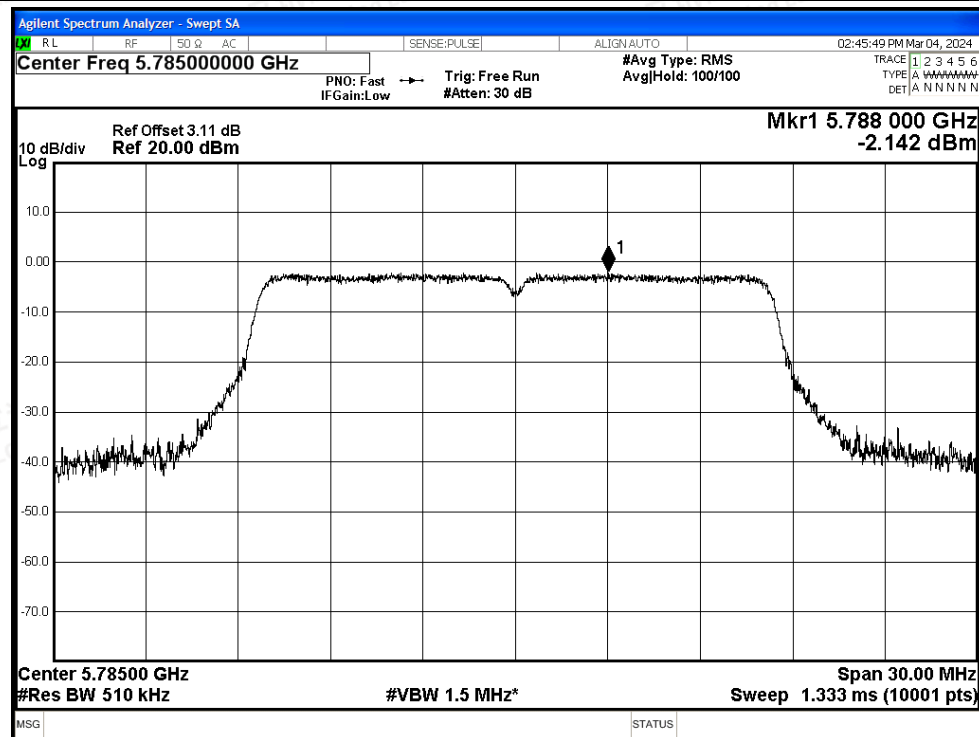


Test Graphs

PSD NVNT a 5745MHz Ant



PSD NVNT a 5785MHz Ant

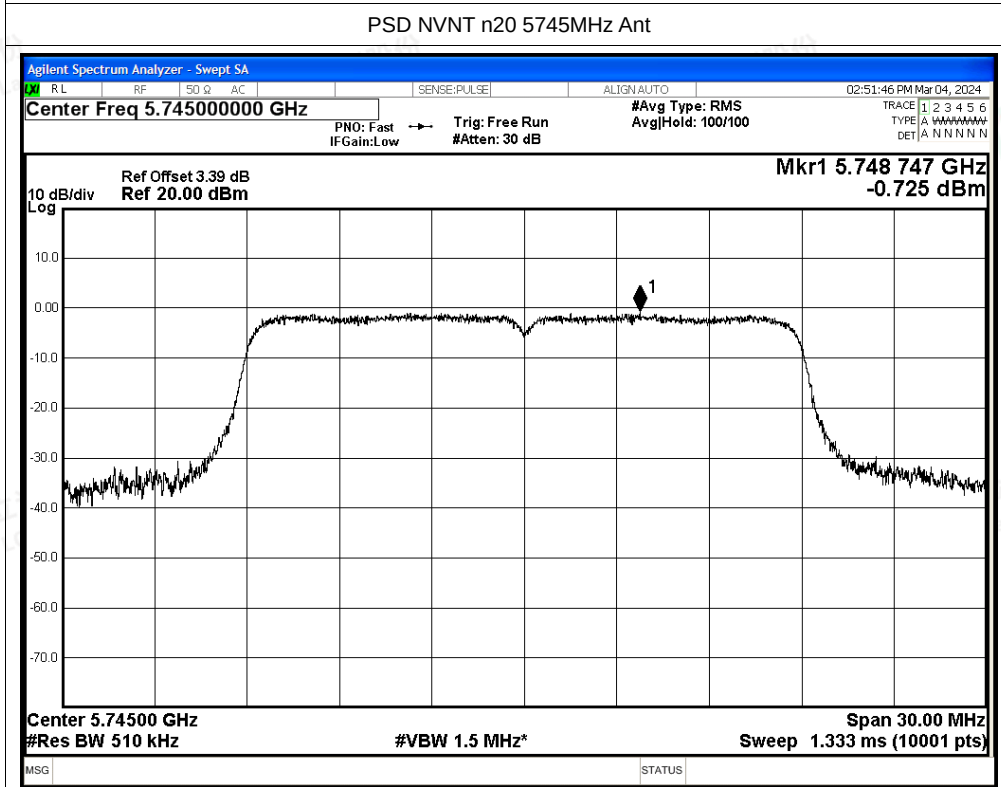
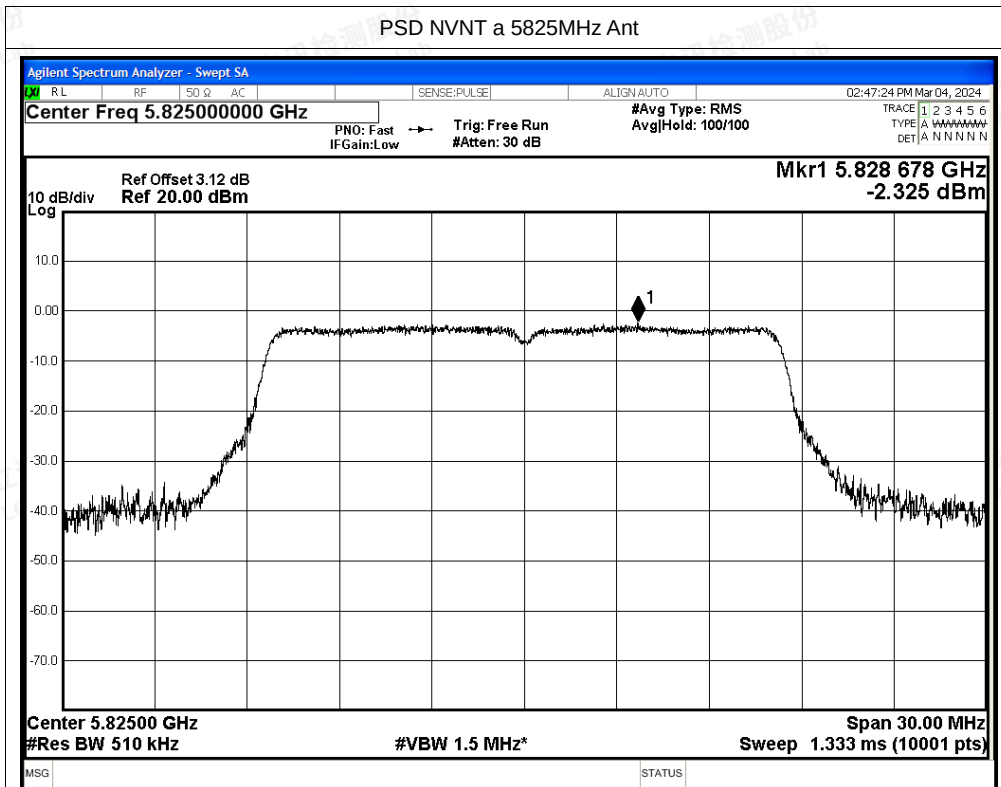


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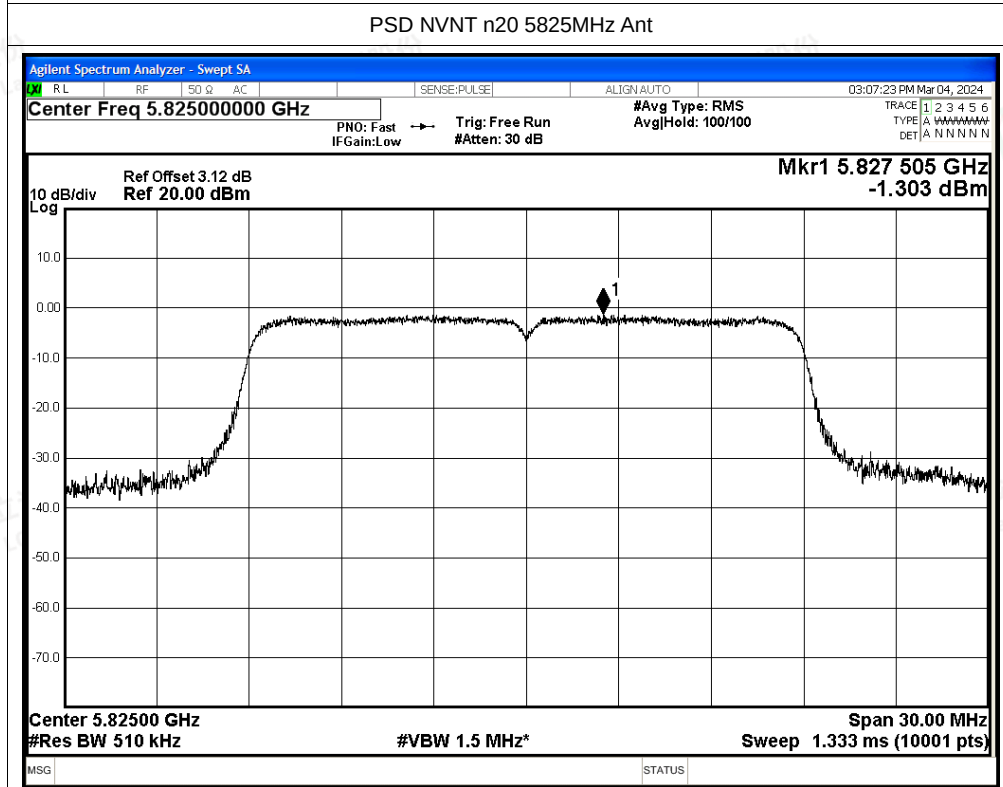
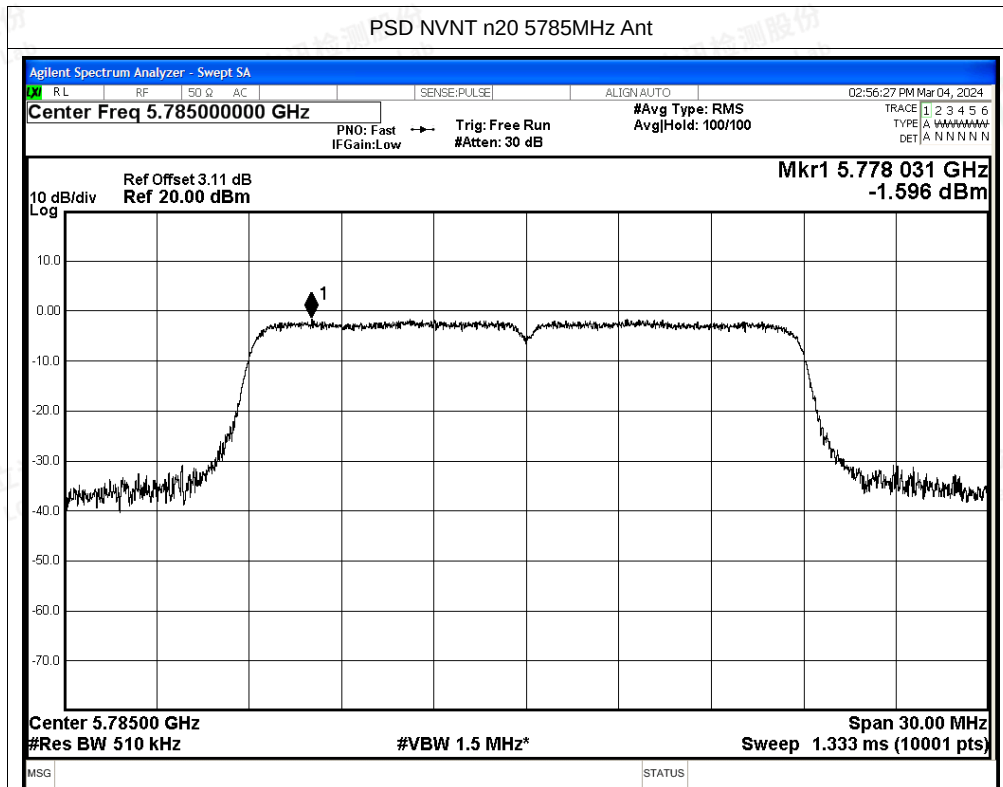


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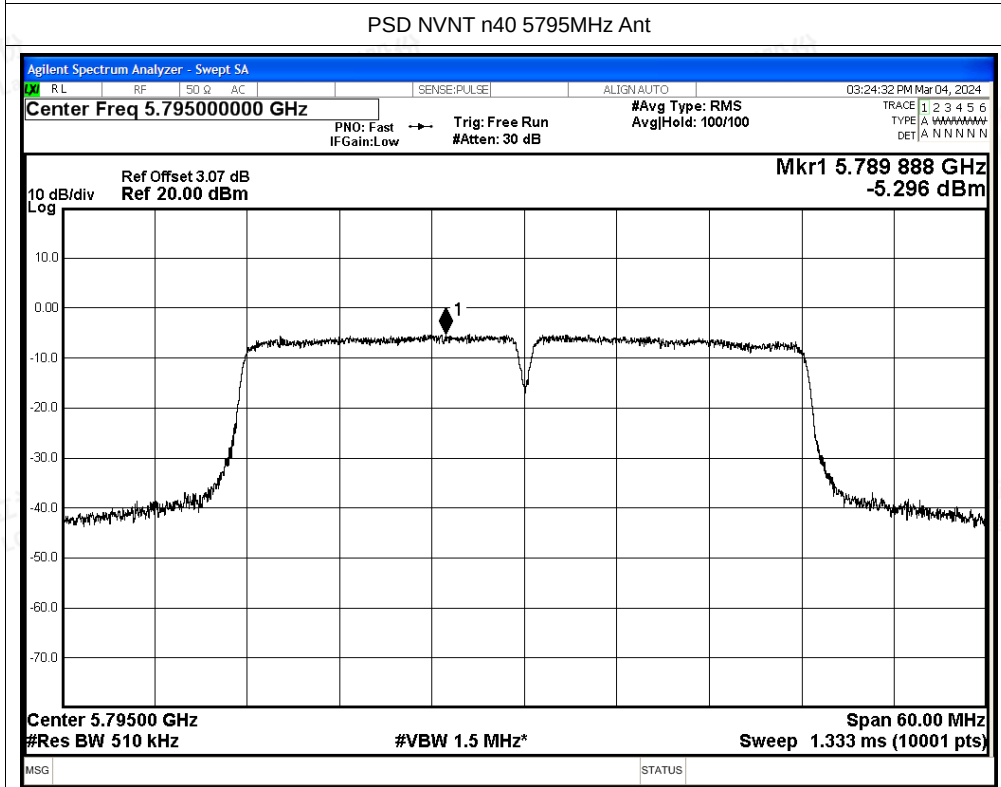
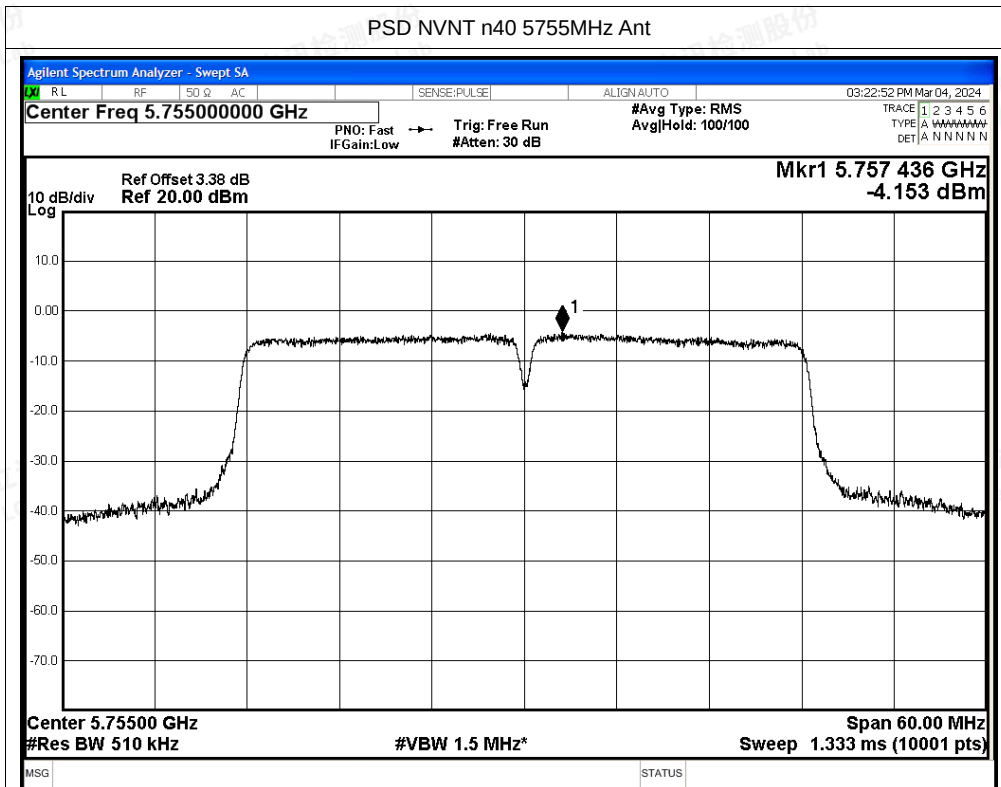


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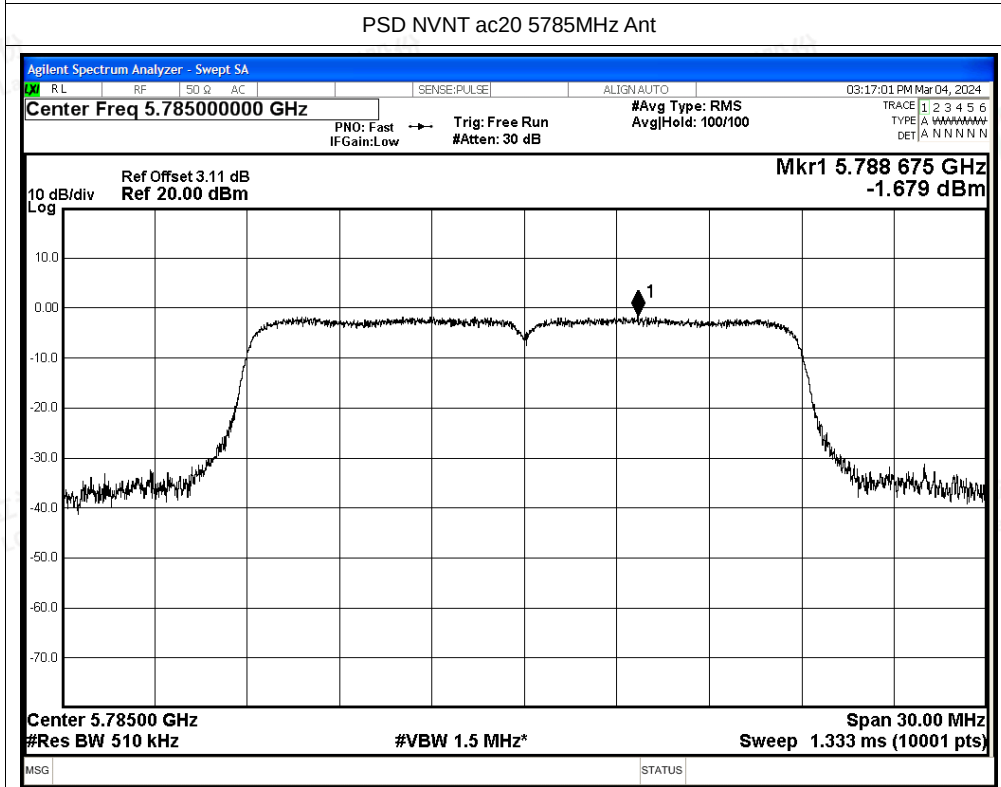
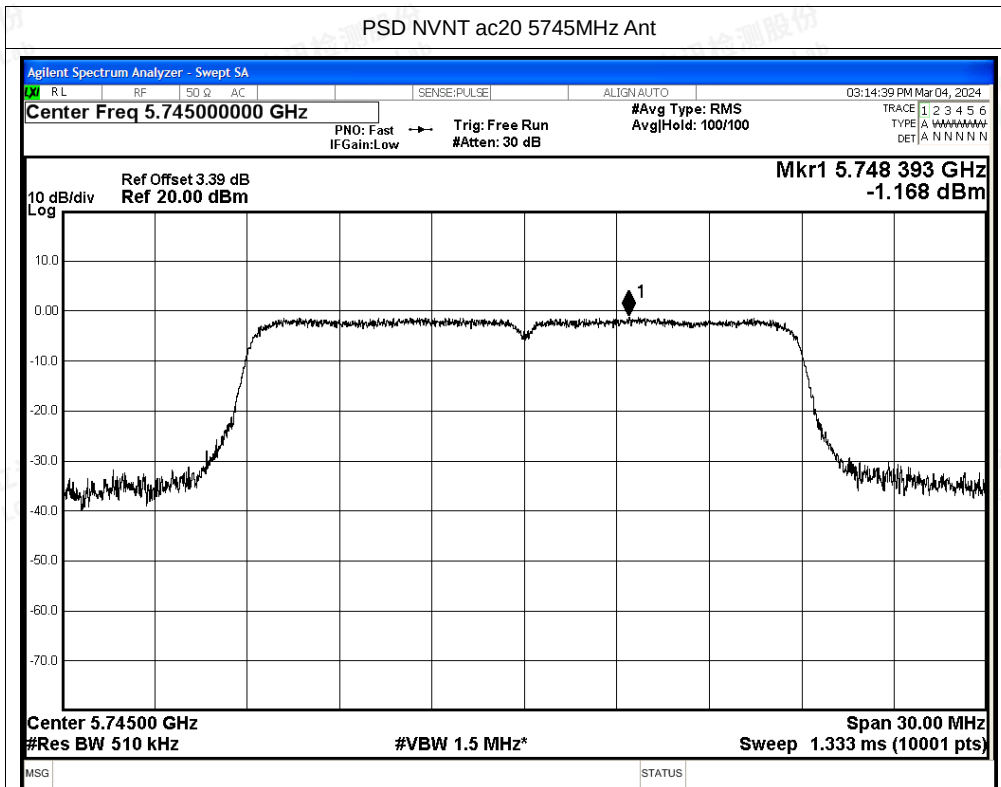


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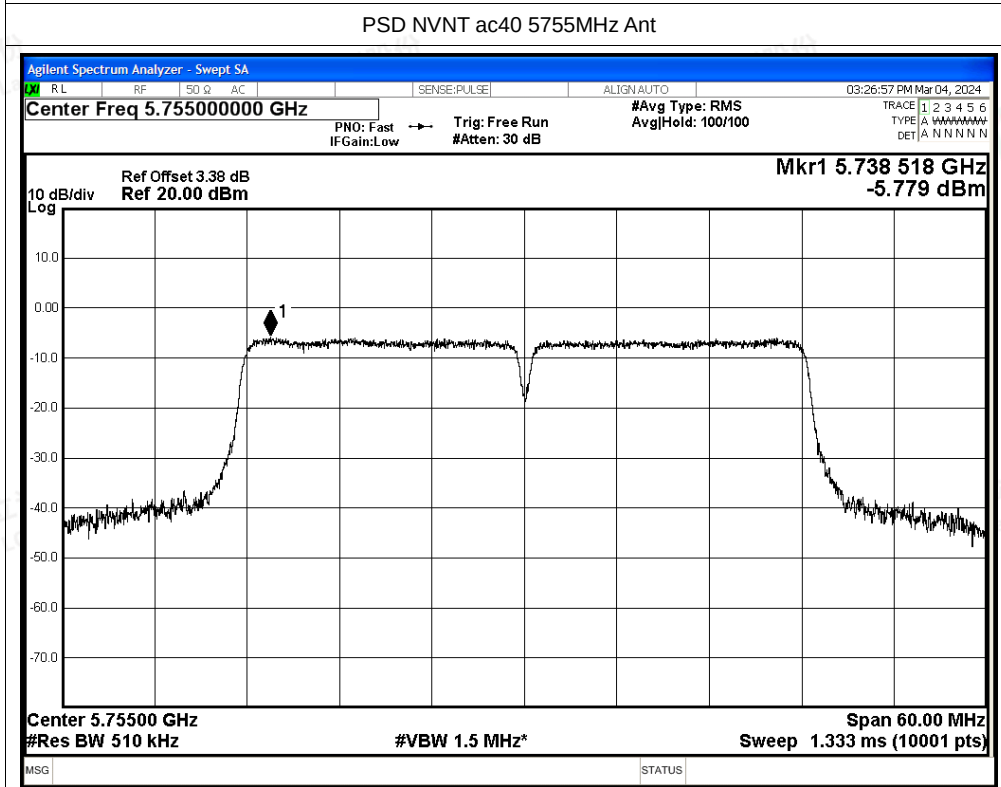
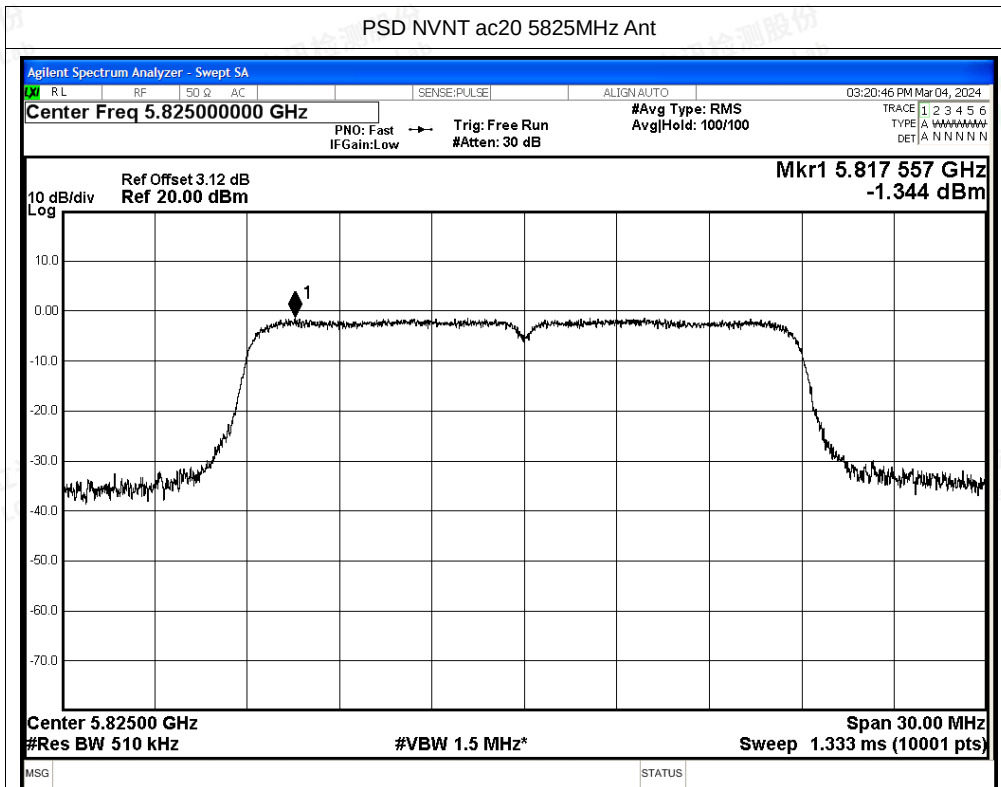


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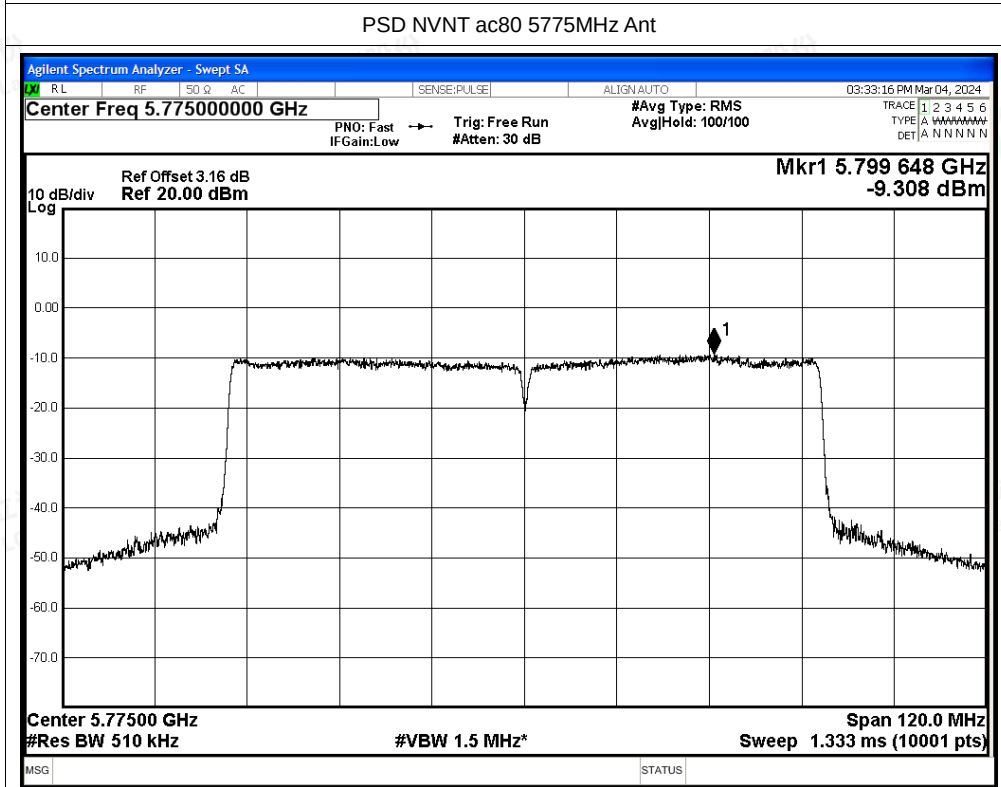
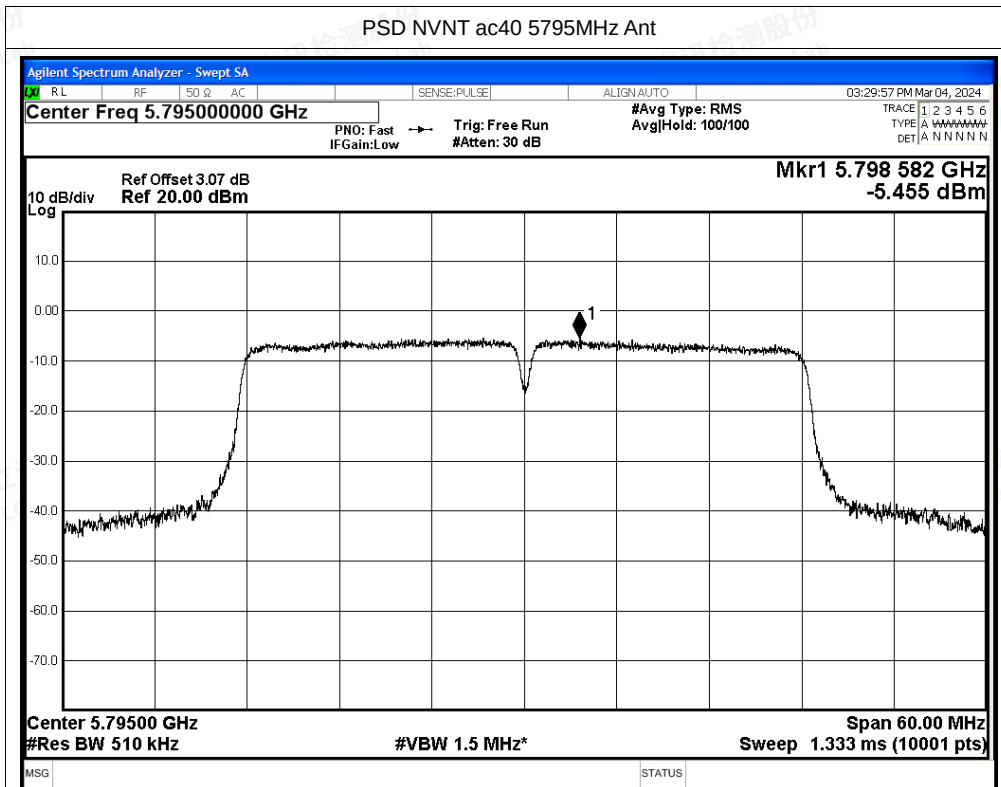


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E.4 Restrict Band

Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	EIRP Power (dBm)	Detector	Limit (dBm)	Verdict
NVNT	a	5745	Ant	5650	-49.46	2	-	-47.46	Peak	-27	Pass
NVNT	a	5745	Ant	5650	-58.03	2	0.1	-55.93	Average	-27	Pass
NVNT	a	5745	Ant	5700	-48.33	2	-	-46.33	Peak	10	Pass
NVNT	a	5745	Ant	5700	-54.72	2	0.1	-52.62	Average	10	Pass
NVNT	a	5745	Ant	5720	-33.39	2	-	-31.39	Peak	15.6	Pass
NVNT	a	5745	Ant	5720	-48.08	2	0.1	-45.98	Average	15.6	Pass
NVNT	a	5745	Ant	5725	-20.98	2	-	-18.98	Peak	27	Pass
NVNT	a	5745	Ant	5725	-40.98	2	0.1	-38.88	Average	27	Pass
NVNT	a	5825	Ant	5850	-34.99	2	-	-32.99	Peak	27	Pass
NVNT	a	5825	Ant	5850	-50.44	2	0.1	-48.34	Average	27	Pass
NVNT	a	5825	Ant	5855	-41.5	2	-	-39.5	Peak	15.6	Pass
NVNT	a	5825	Ant	5855	-53.9	2	0.1	-51.8	Average	15.6	Pass
NVNT	a	5825	Ant	5875	-47.22	2	-	-45.22	Peak	10	Pass
NVNT	a	5825	Ant	5875	-56.14	2	0.1	-54.04	Average	10	Pass
NVNT	a	5825	Ant	5925	-47.53	2	-	-45.53	Peak	-27	Pass
NVNT	a	5825	Ant	5925	-56.62	2	0.1	-54.52	Average	-27	Pass
NVNT	n20	5745	Ant	5650	-48.99	2	-	-46.99	Peak	-27	Pass
NVNT	n20	5745	Ant	5650	-56.42	2	0.12	-54.3	Average	-27	Pass
NVNT	n20	5745	Ant	5700	-45.66	2	-	-43.66	Peak	10	Pass
NVNT	n20	5745	Ant	5700	-54.34	2	0.12	-52.22	Average	10	Pass
NVNT	n20	5745	Ant	5720	-33.95	2	-	-31.95	Peak	15.6	Pass
NVNT	n20	5745	Ant	5720	-46.35	2	0.12	-44.23	Average	15.6	Pass
NVNT	n20	5745	Ant	5725	-23.96	2	-	-21.96	Peak	27	Pass
NVNT	n20	5745	Ant	5725	-38.32	2	0.12	-36.2	Average	27	Pass
NVNT	n20	5825	Ant	5850	-33.83	2	-	-31.83	Peak	27	Pass
NVNT	n20	5825	Ant	5850	-45.41	2	0.12	-43.29	Average	27	Pass
NVNT	n20	5825	Ant	5855	-39.1	2	-	-37.1	Peak	15.6	Pass
NVNT	n20	5825	Ant	5855	-50.67	2	0.12	-48.55	Average	15.6	Pass
NVNT	n20	5825	Ant	5875	-44.93	2	-	-42.93	Peak	10	Pass
NVNT	n20	5825	Ant	5875	-54.96	2	0.12	-52.84	Average	10	Pass
NVNT	n20	5825	Ant	5925	-48.83	2	-	-46.83	Peak	-27	Pass
NVNT	n20	5825	Ant	5925	-56.24	2	0.12	-54.12	Average	-27	Pass
NVNT	n40	5755	Ant	5650	-47.34	2	-	-45.34	Peak	-27	Pass
NVNT	n40	5755	Ant	5650	-56.82	2	0.24	-54.58	Average	-27	Pass
NVNT	n40	5755	Ant	5700	-44.13	2	-	-42.13	Peak	10	Pass
NVNT	n40	5755	Ant	5700	-53.22	2	0.24	-50.98	Average	10	Pass



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NVNT	n40	5755	Ant	5720	-28.17	2	-	-26.17	Peak	15.6	Pass
NVNT	n40	5755	Ant	5720	-42.02	2	0.24	-39.78	Average	15.6	Pass
NVNT	n40	5755	Ant	5725	-26.75	2	-	-24.75	Peak	27	Pass
NVNT	n40	5755	Ant	5725	-39.63	2	0.24	-37.39	Average	27	Pass
NVNT	n40	5795	Ant	5850	-48.84	2	-	-46.84	Peak	27	Pass
NVNT	n40	5795	Ant	5850	-56.04	2	0.24	-53.8	Average	27	Pass
NVNT	n40	5795	Ant	5855	-48.35	2	-	-46.35	Peak	15.6	Pass
NVNT	n40	5795	Ant	5855	-56.27	2	0.24	-54.03	Average	15.6	Pass
NVNT	n40	5795	Ant	5875	-49.76	2	-	-47.76	Peak	10	Pass
NVNT	n40	5795	Ant	5875	-58.09	2	0.24	-55.85	Average	10	Pass
NVNT	n40	5795	Ant	5925	-49.64	2	-	-47.64	Peak	-27	Pass
NVNT	n40	5795	Ant	5925	-57.64	2	0.24	-55.4	Average	-27	Pass
NVNT	ac20	5745	Ant	5650	-48.6	2	-	-46.6	Peak	-27	Pass
NVNT	ac20	5745	Ant	5650	-56.81	2	0.12	-54.69	Average	-27	Pass
NVNT	ac20	5745	Ant	5700	-46.26	2	-	-44.26	Peak	10	Pass
NVNT	ac20	5745	Ant	5700	-54.55	2	0.12	-52.43	Average	10	Pass
NVNT	ac20	5745	Ant	5720	-31.94	2	-	-29.94	Peak	15.6	Pass
NVNT	ac20	5745	Ant	5720	-46.62	2	0.12	-44.5	Average	15.6	Pass
NVNT	ac20	5745	Ant	5725	-25.4	2	-	-23.4	Peak	27	Pass
NVNT	ac20	5745	Ant	5725	-39.93	2	0.12	-37.81	Average	27	Pass
NVNT	ac20	5825	Ant	5850	-32.49	2	-	-30.49	Peak	27	Pass
NVNT	ac20	5825	Ant	5850	-45.32	2	0.12	-43.2	Average	27	Pass
NVNT	ac20	5825	Ant	5855	-40.24	2	-	-38.24	Peak	15.6	Pass
NVNT	ac20	5825	Ant	5855	-50.85	2	0.12	-48.73	Average	15.6	Pass
NVNT	ac20	5825	Ant	5875	-48.39	2	-	-46.39	Peak	10	Pass
NVNT	ac20	5825	Ant	5875	-55.53	2	0.12	-53.41	Average	10	Pass
NVNT	ac20	5825	Ant	5925	-49.16	2	-	-47.16	Peak	-27	Pass
NVNT	ac20	5825	Ant	5925	-56.08	2	0.12	-53.96	Average	-27	Pass
NVNT	ac40	5755	Ant	5650	-48.87	2	-	-46.87	Peak	-27	Pass
NVNT	ac40	5755	Ant	5650	-56.78	2	0.24	-54.54	Average	-27	Pass
NVNT	ac40	5755	Ant	5700	-45.72	2	-	-43.72	Peak	10	Pass
NVNT	ac40	5755	Ant	5700	-53.88	2	0.24	-51.64	Average	10	Pass
NVNT	ac40	5755	Ant	5720	-30.01	2	-	-28.01	Peak	15.6	Pass
NVNT	ac40	5755	Ant	5720	-43.31	2	0.24	-41.07	Average	15.6	Pass
NVNT	ac40	5755	Ant	5725	-22.68	2	-	-20.68	Peak	27	Pass
NVNT	ac40	5755	Ant	5725	-39.6	2	0.24	-37.36	Average	27	Pass
NVNT	ac40	5795	Ant	5850	-46.57	2	-	-44.57	Peak	27	Pass
NVNT	ac40	5795	Ant	5850	-56.08	2	0.24	-53.84	Average	27	Pass
NVNT	ac40	5795	Ant	5855	-46.77	2	-	-44.77	Peak	15.6	Pass
NVNT	ac40	5795	Ant	5855	-56.23	2	0.24	-53.99	Average	15.6	Pass
NVNT	ac40	5795	Ant	5875	-48.21	2	-	-46.21	Peak	10	Pass



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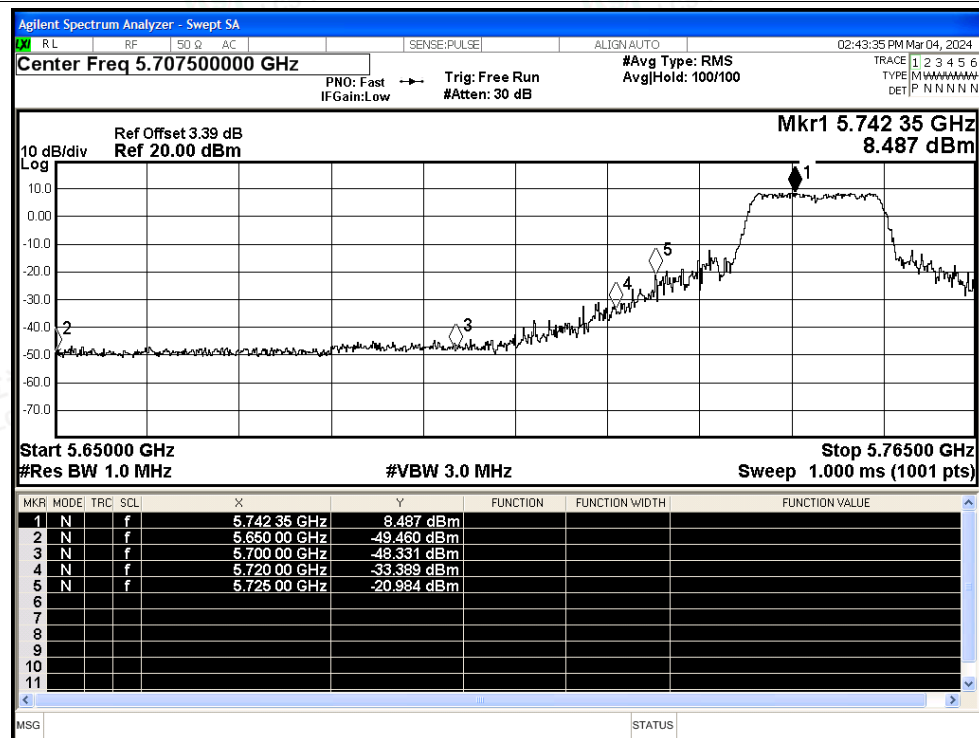
NVNT	ac40	5795	Ant	5875	-57.59	2	0.24	-55.35	Average	10	Pass
NVNT	ac40	5795	Ant	5925	-50.66	2	-	-48.66	Peak	-27	Pass
NVNT	ac40	5795	Ant	5925	-57.67	2	0.24	-55.43	Average	-27	Pass
NVNT	ac80	5775	Ant	5650	-48.23	2	-	-46.23	Peak	-27	Pass
NVNT	ac80	5775	Ant	5650	-55.38	2	0.47	-52.91	Average	-27	Pass
NVNT	ac80	5775	Ant	5700	-44.62	2	-	-42.62	Peak	10	Pass
NVNT	ac80	5775	Ant	5700	-52.13	2	0.47	-49.66	Average	10	Pass
NVNT	ac80	5775	Ant	5720	-32.59	2	-	-30.59	Peak	15.6	Pass
NVNT	ac80	5775	Ant	5720	-45.91	2	0.47	-43.44	Average	15.6	Pass
NVNT	ac80	5775	Ant	5725	-27.33	2	-	-25.33	Peak	27	Pass
NVNT	ac80	5775	Ant	5725	-44.61	2	0.47	-42.14	Average	27	Pass
NVNT	ac80	5775	Ant	5850	-39.58	2	-	-37.58	Peak	27	Pass
NVNT	ac80	5775	Ant	5850	-50.48	2	0.47	-48.01	Average	27	Pass
NVNT	ac80	5775	Ant	5855	-42.93	2	-	-40.93	Peak	15.6	Pass
NVNT	ac80	5775	Ant	5855	-50.72	2	0.47	-48.25	Average	15.6	Pass
NVNT	ac80	5775	Ant	5875	-45.16	2	-	-43.16	Peak	10	Pass
NVNT	ac80	5775	Ant	5875	-54.68	2	0.47	-52.21	Average	10	Pass
NVNT	ac80	5775	Ant	5925	-49.41	2	-	-47.41	Peak	-27	Pass
NVNT	ac80	5775	Ant	5925	-56.98	2	0.47	-54.51	Average	-27	Pass



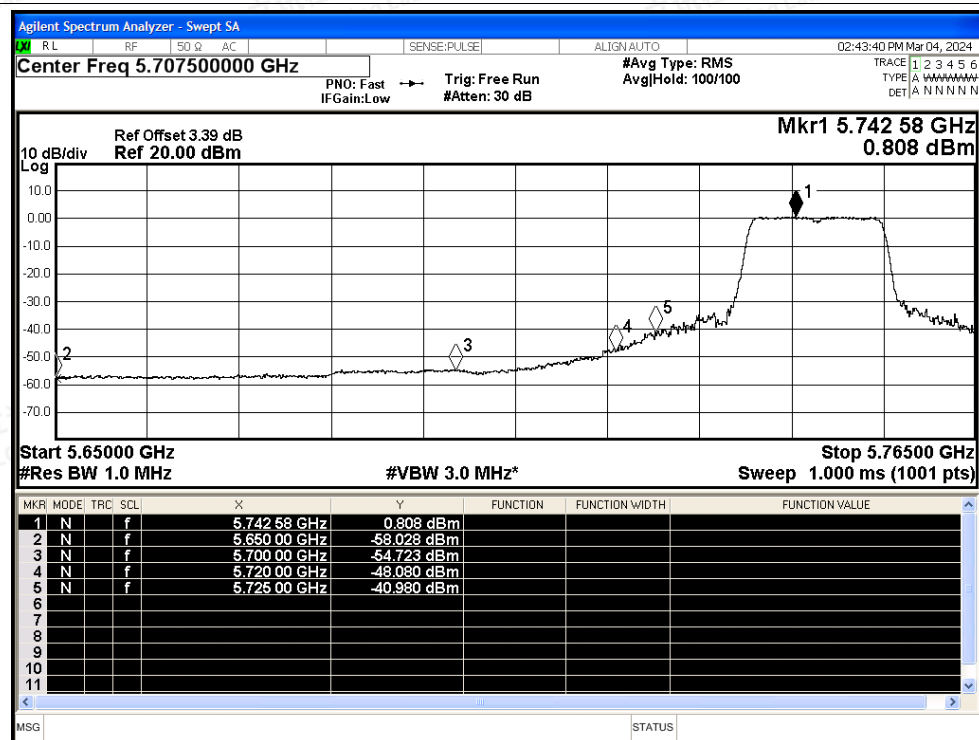


Test Graphs

Restrict Band NVNT a 5745MHz Ant Peak



Restrict Band NVNT a 5745MHz Ant Average



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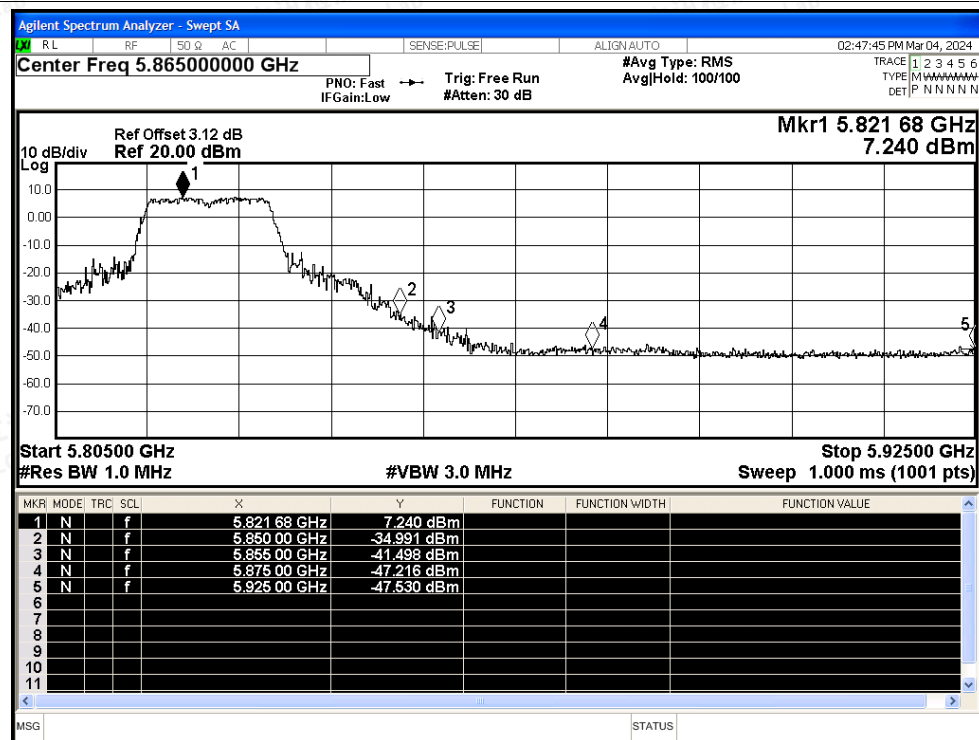
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

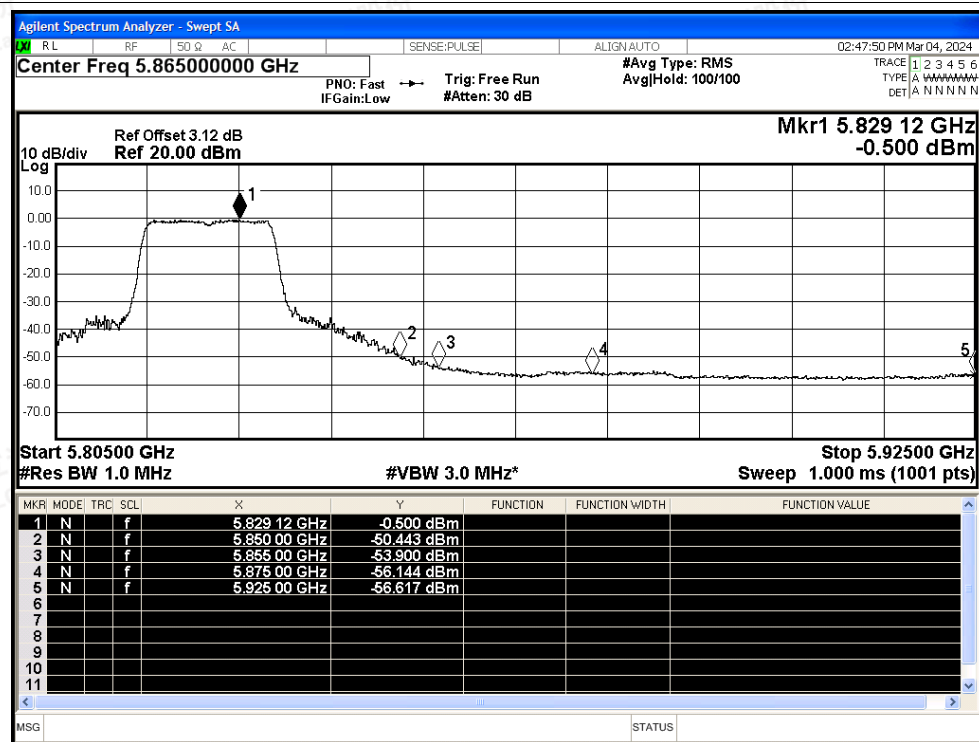
Scan code to check authenticity



Restrict Band NVNT a 5825MHz Ant Peak



Restrict Band NVNT a 5825MHz Ant Average



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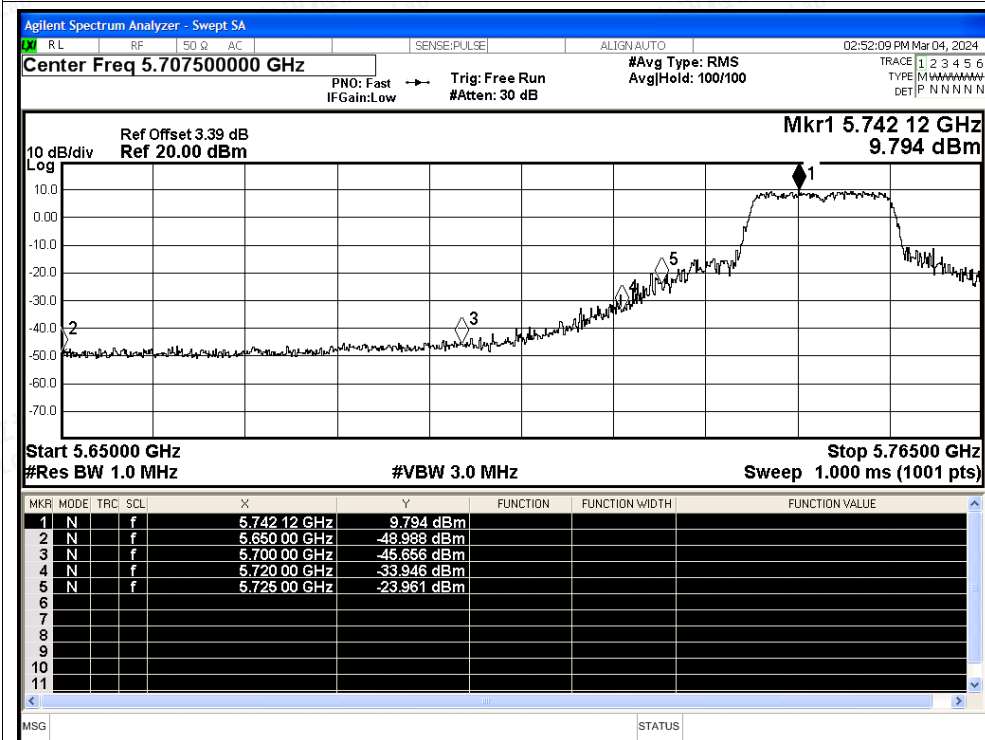
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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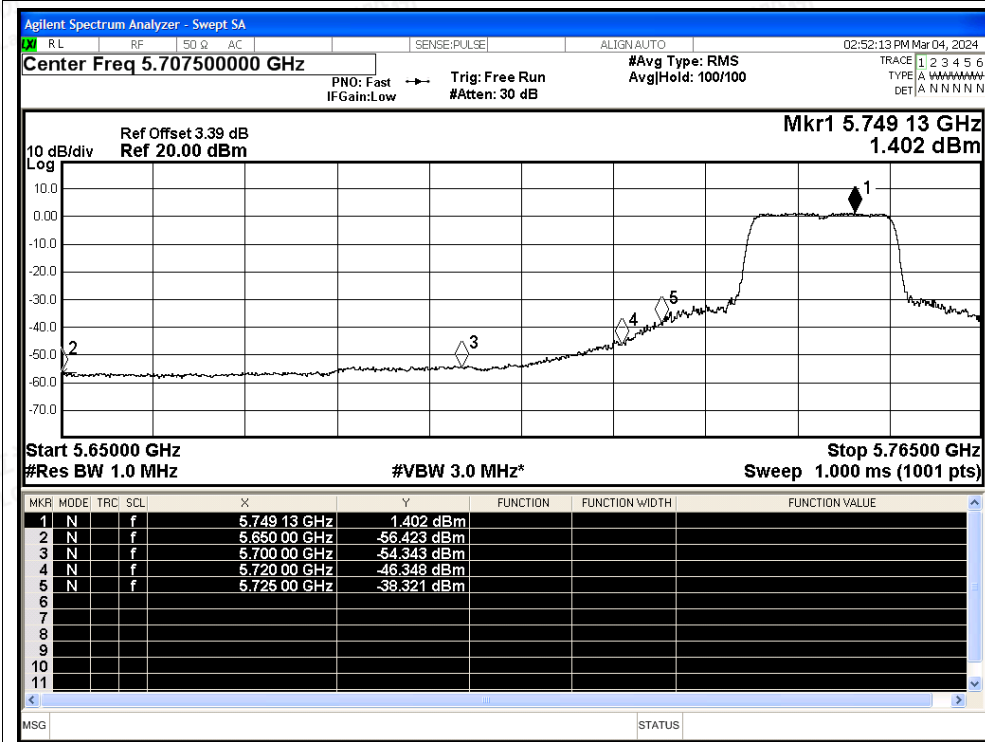
Scan code to check authenticity



Restrict Band NVNT n20 5745MHz Ant Peak



Restrict Band NVNT n20 5745MHz Ant Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

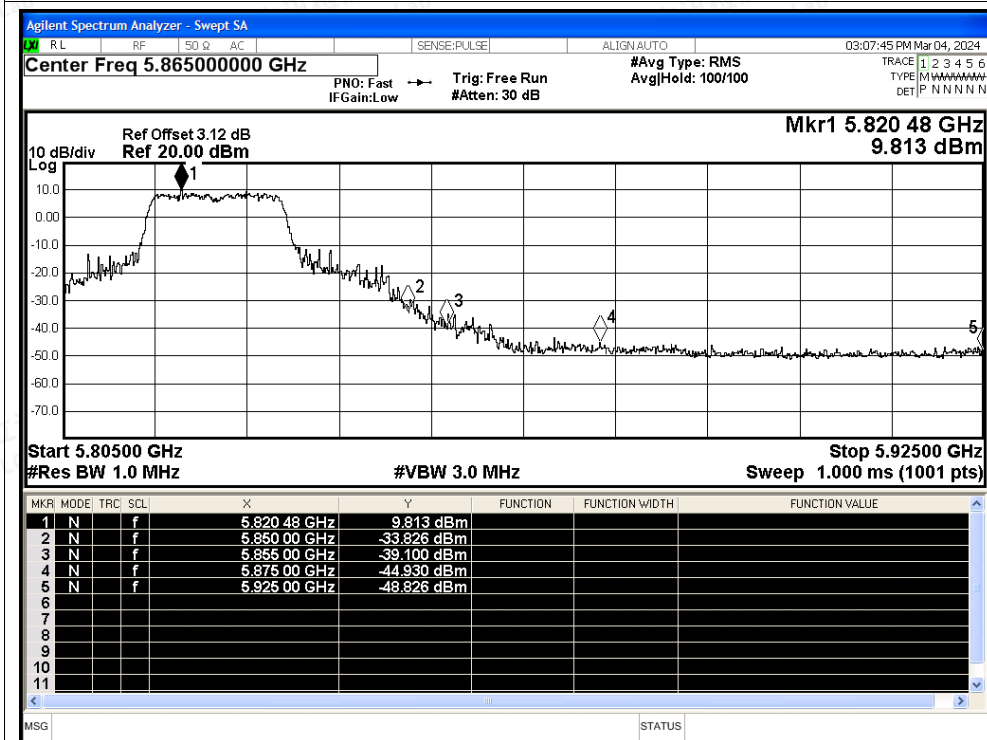
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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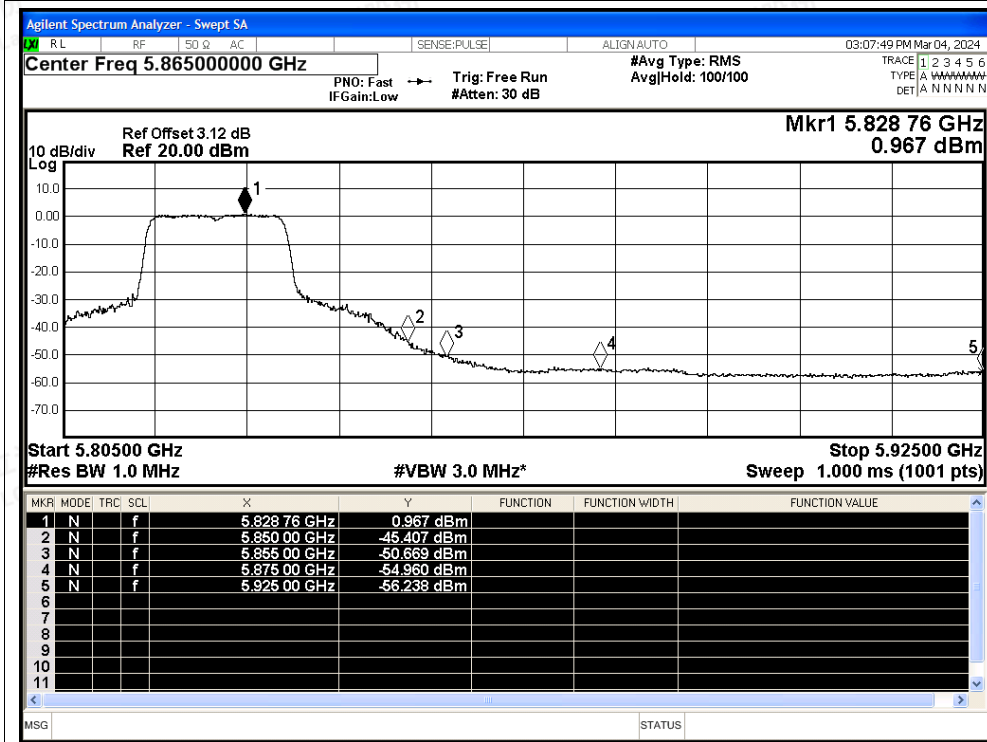
Scan code to check authenticity



Restrict Band NVNT n20 5825MHz Ant Peak



Restrict Band NVNT n20 5825MHz Ant Average

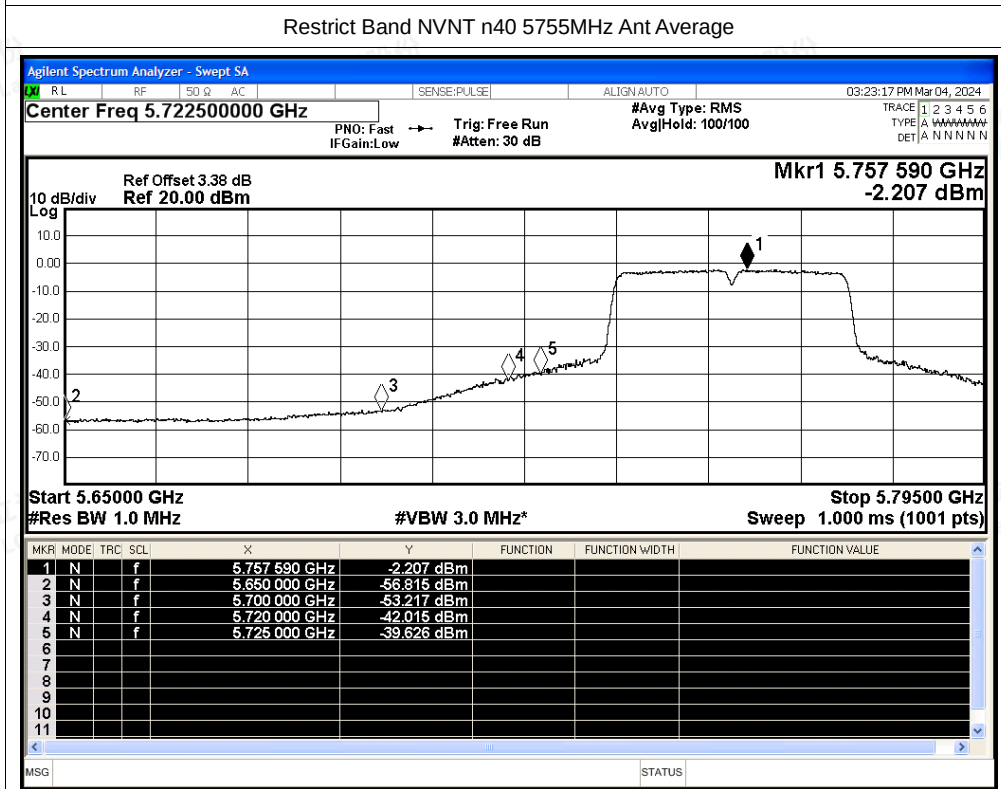
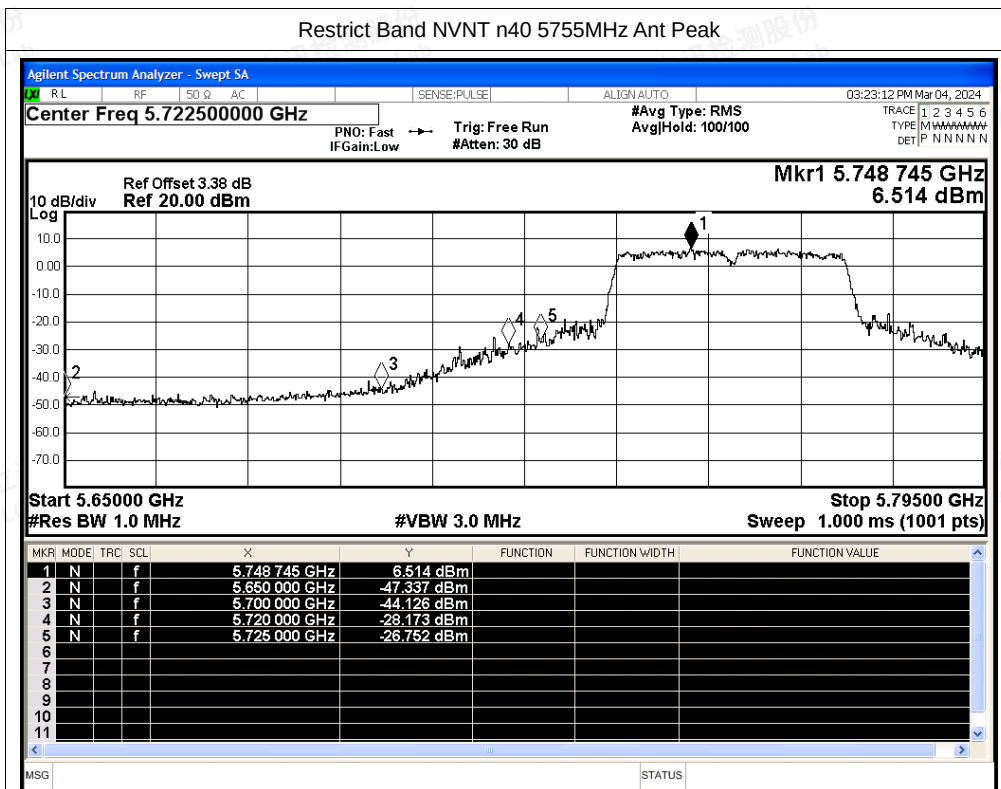


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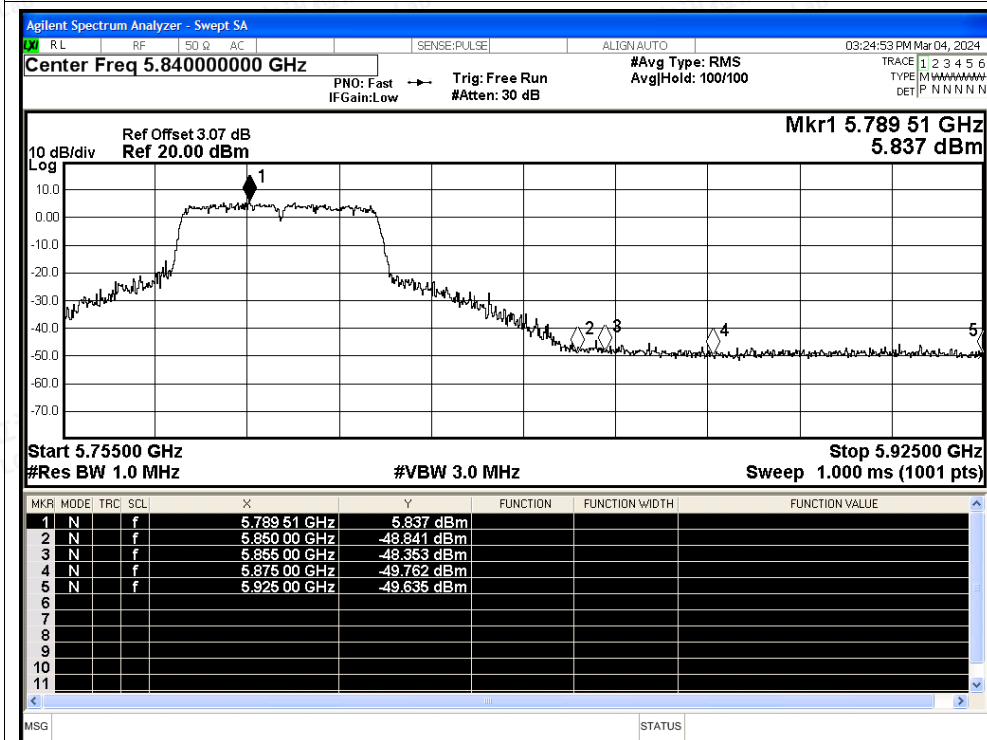
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

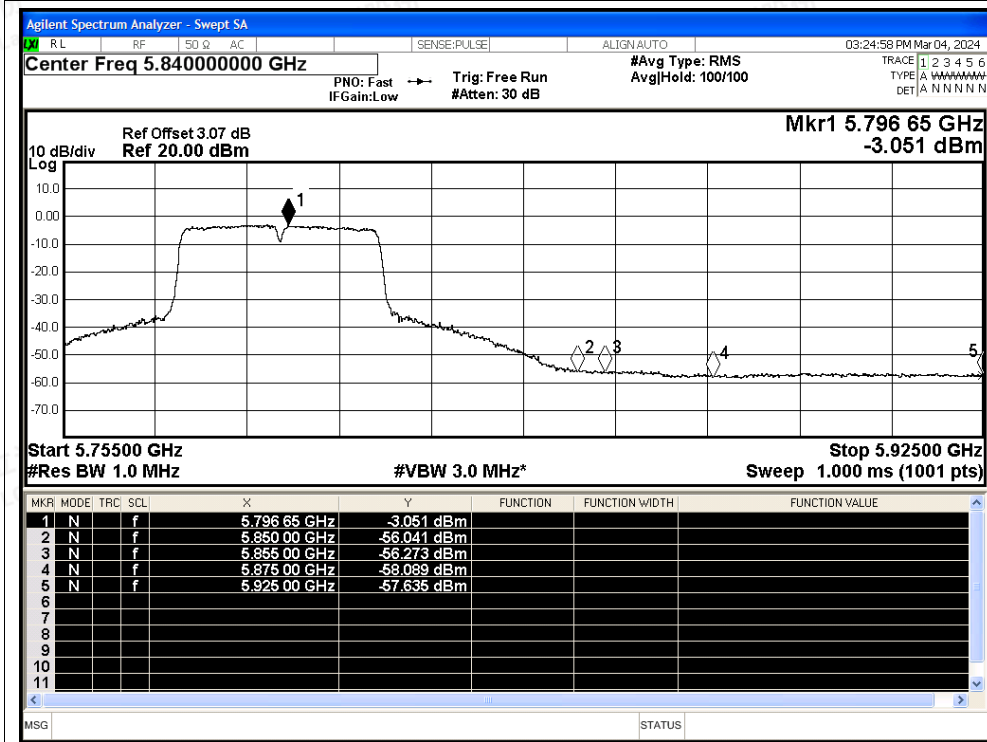
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Restrict Band NVNT n40 5795MHz Ant Peak



Restrict Band NVNT n40 5795MHz Ant Average



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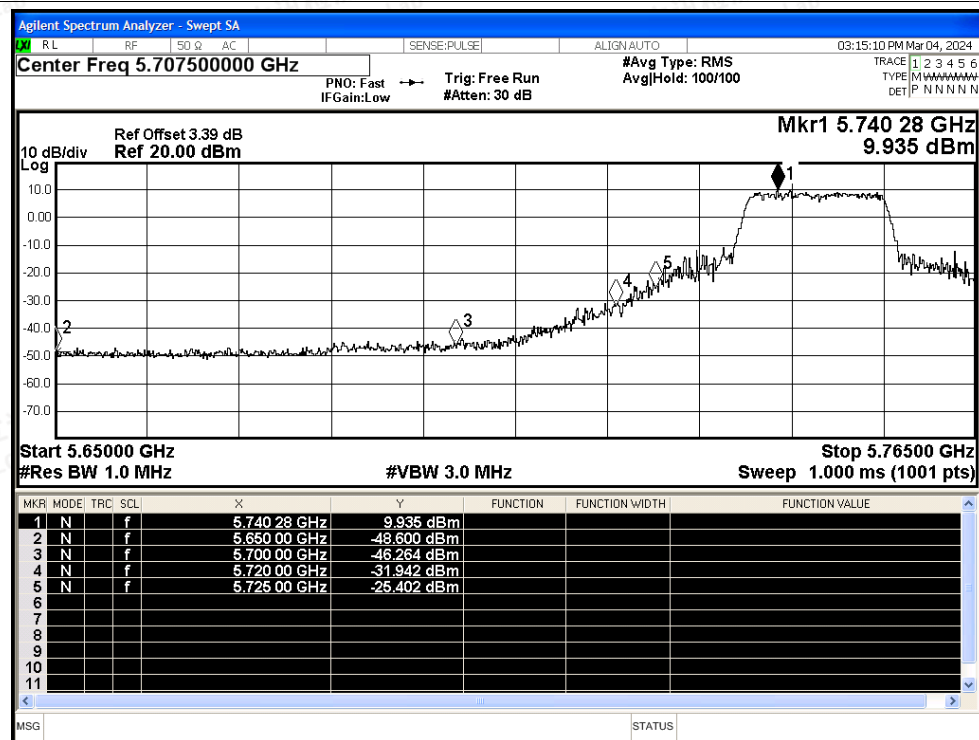
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

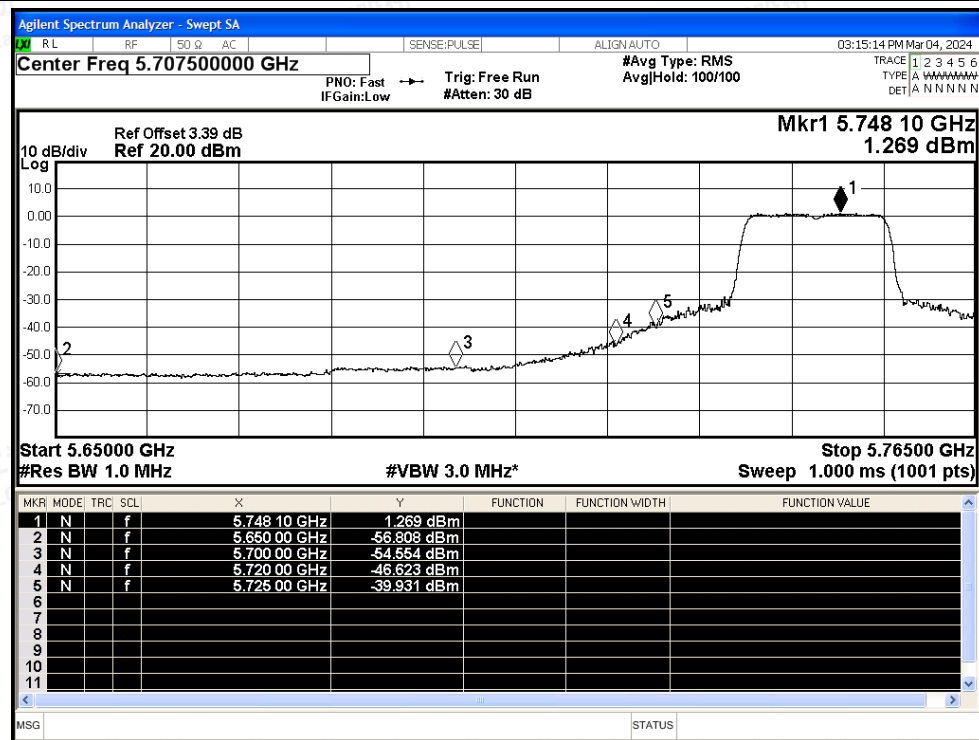
Scan code to check authenticity



Restrict Band NVNT ac20 5745MHz Ant Peak



Restrict Band NVNT ac20 5745MHz Ant Average



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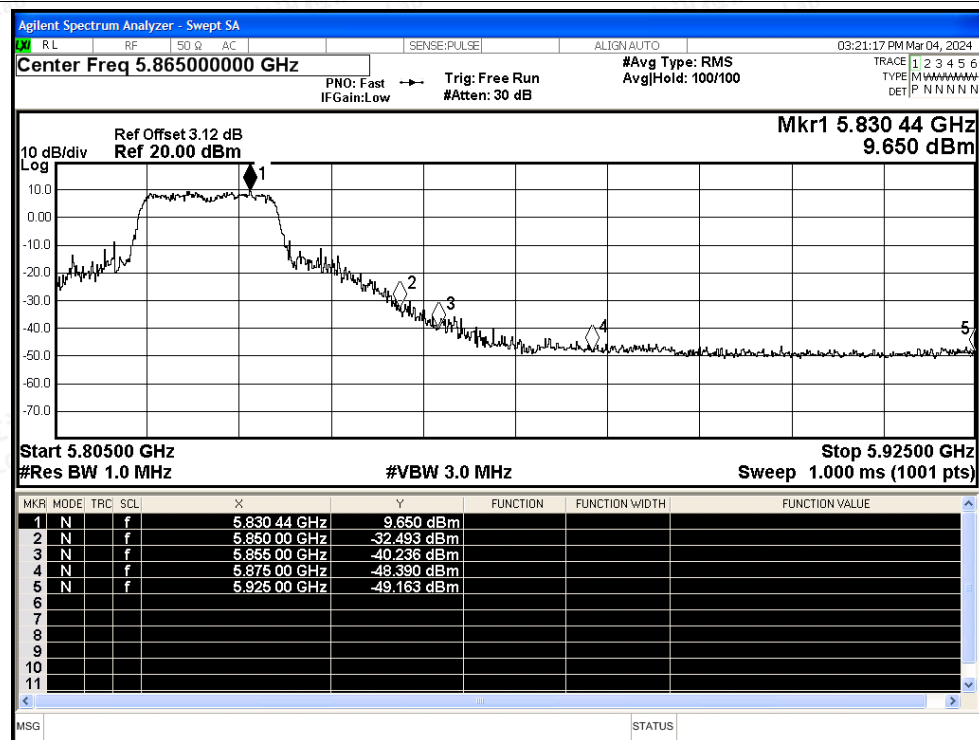
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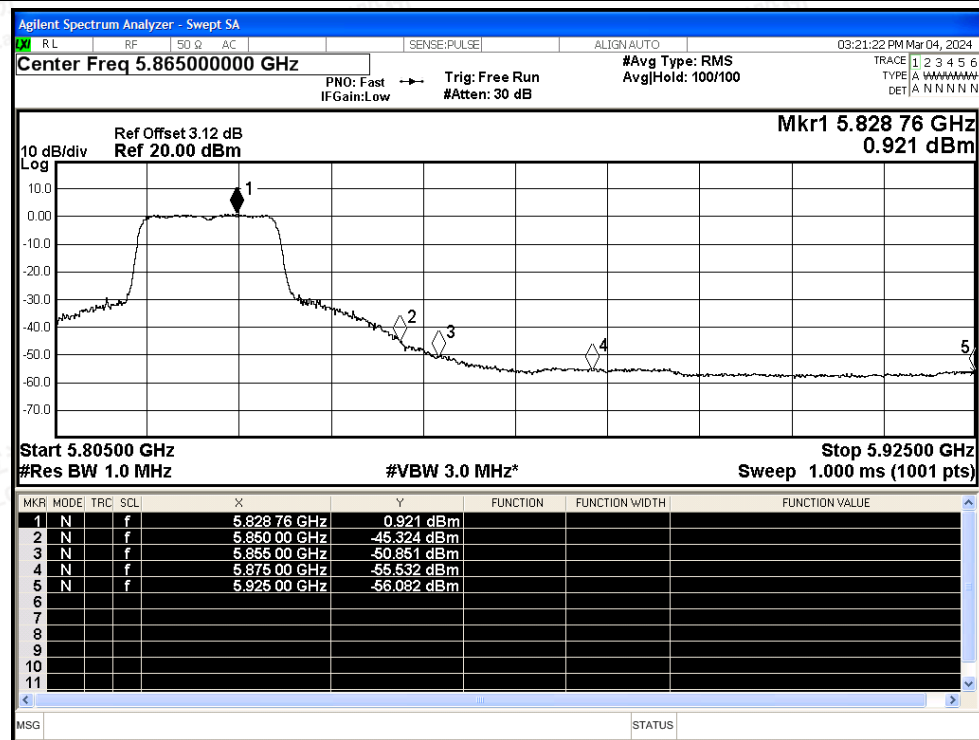
Scan code to check authenticity



Restrict Band NVNT ac20 5825MHz Ant Peak



Restrict Band NVNT ac20 5825MHz Ant Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

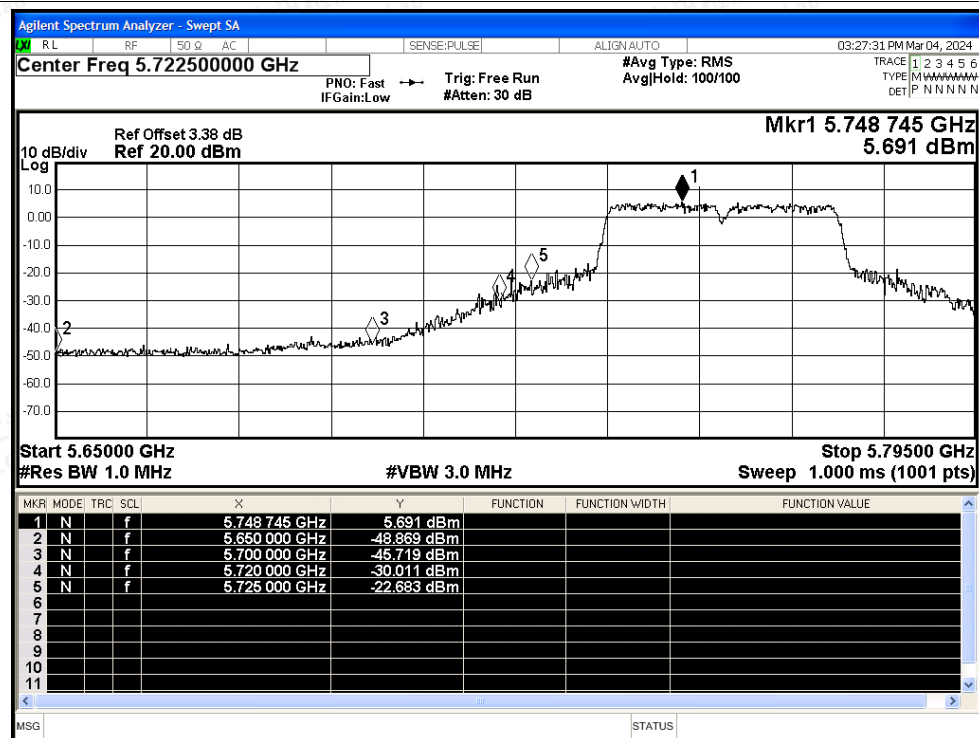
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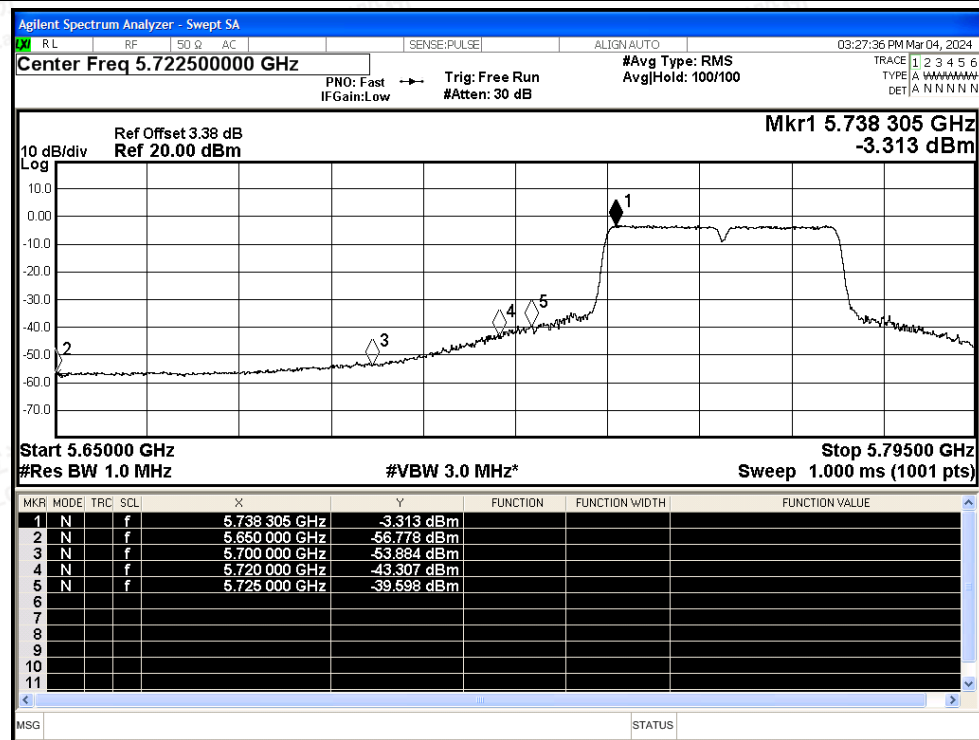
Scan code to check authenticity



Restrict Band NVNT ac40 5755MHz Ant Peak



Restrict Band NVNT ac40 5755MHz Ant Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

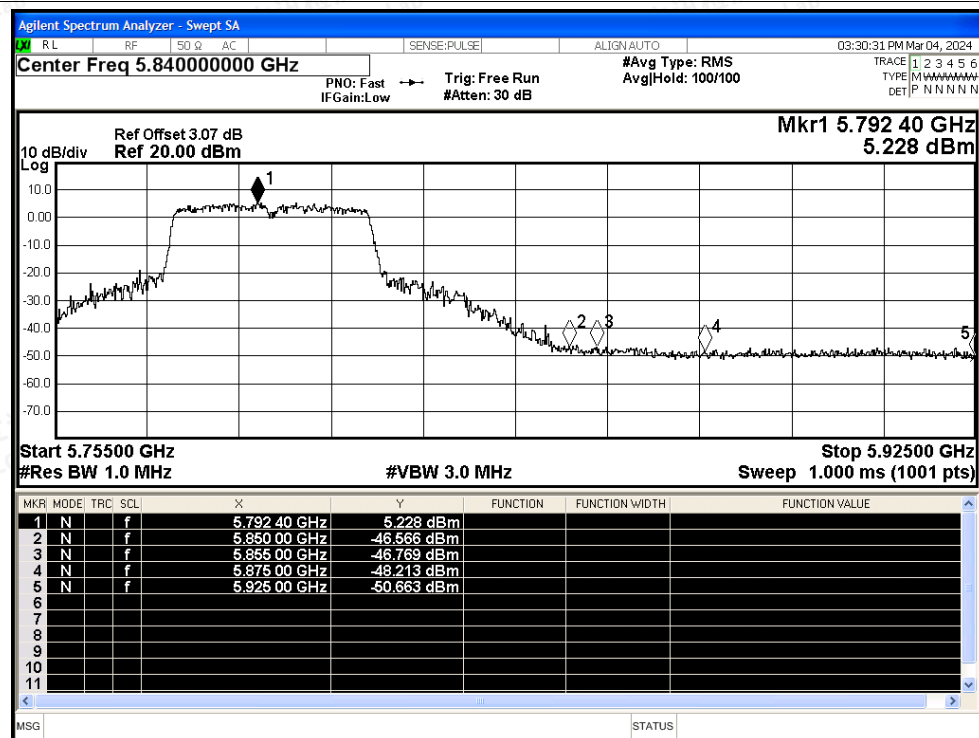
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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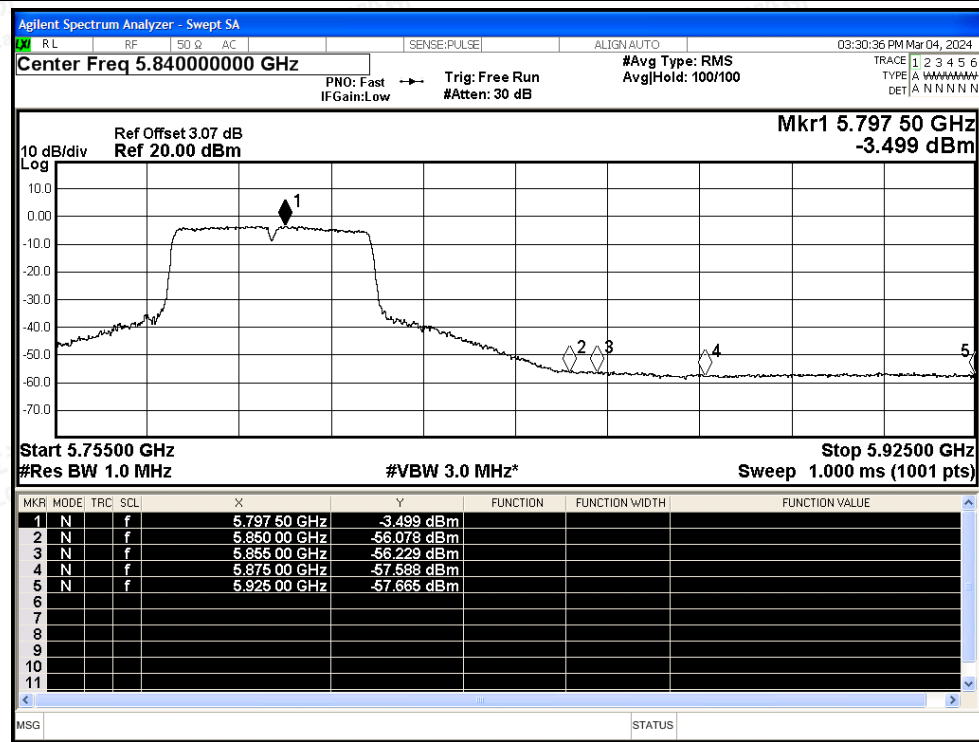
Scan code to check authenticity



Restrict Band NVNT ac40 5795MHz Ant Peak



Restrict Band NVNT ac40 5795MHz Ant Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

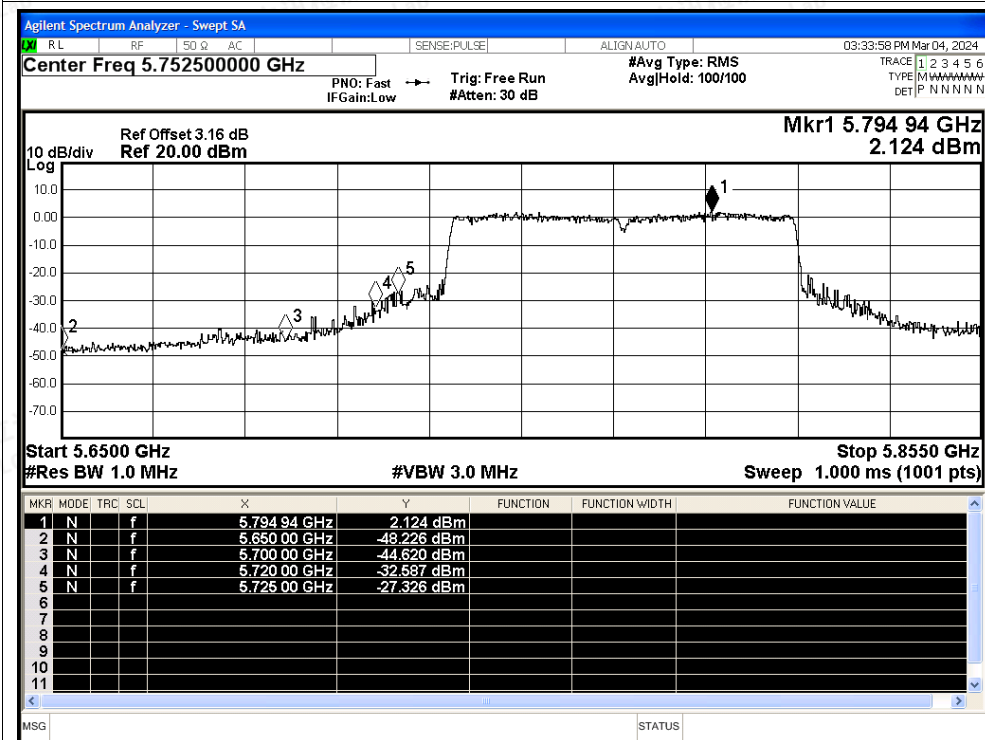
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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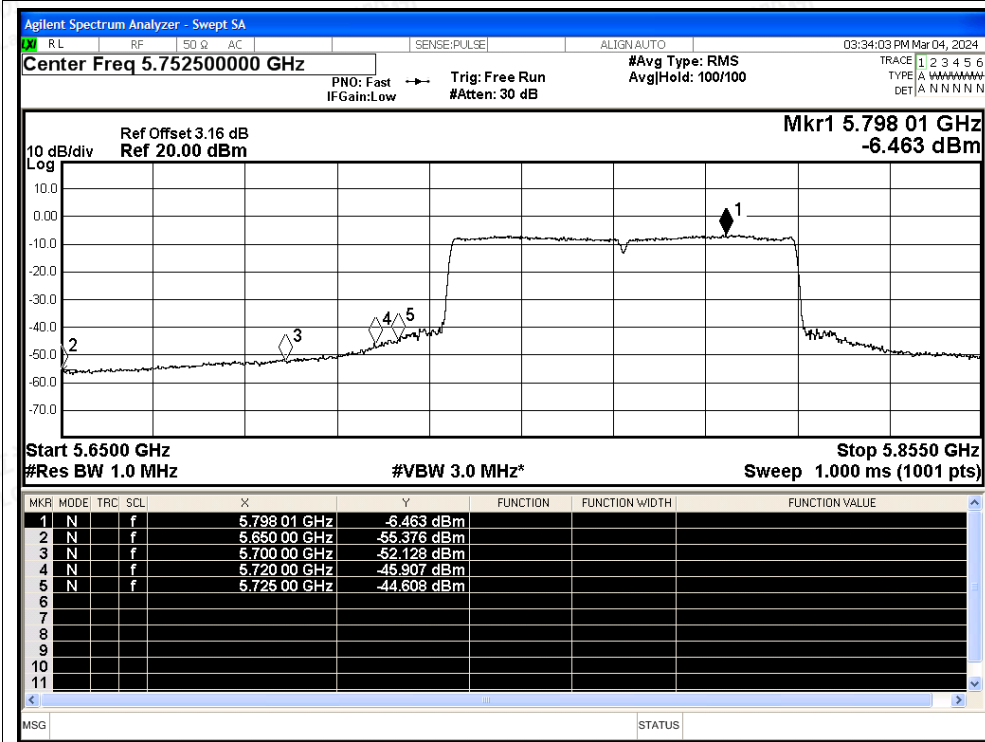
Scan code to check authenticity



Restrict Band NVNT ac80 5775MHz Ant Peak



Restrict Band NVNT ac80 5775MHz Ant Average

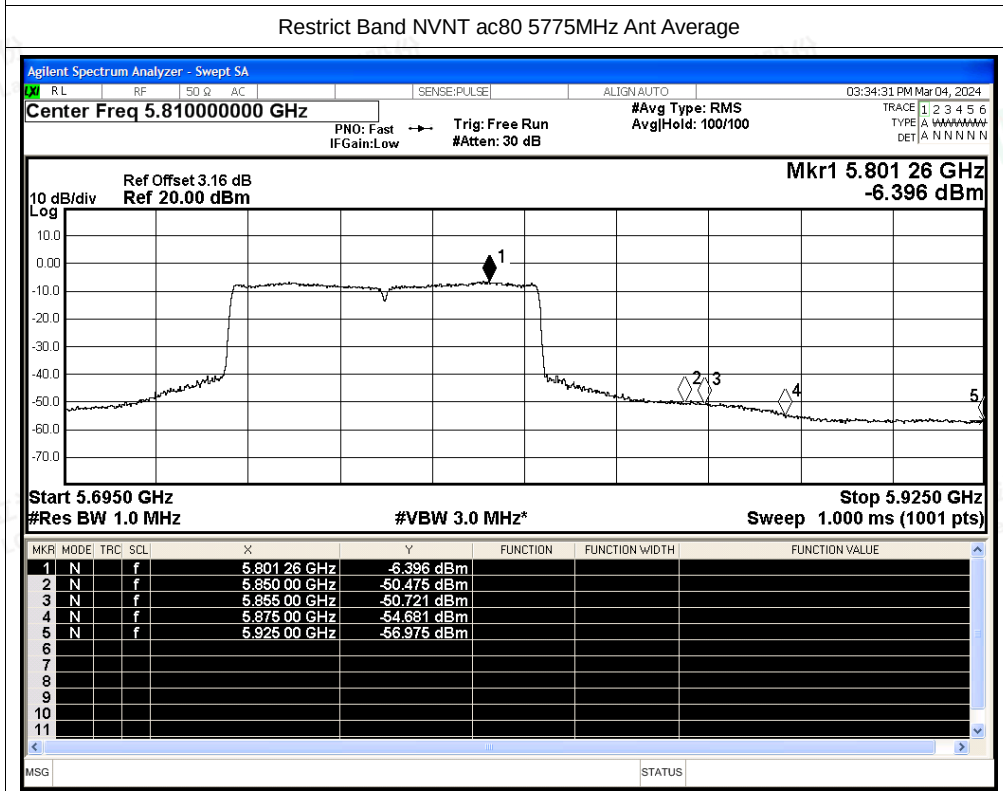
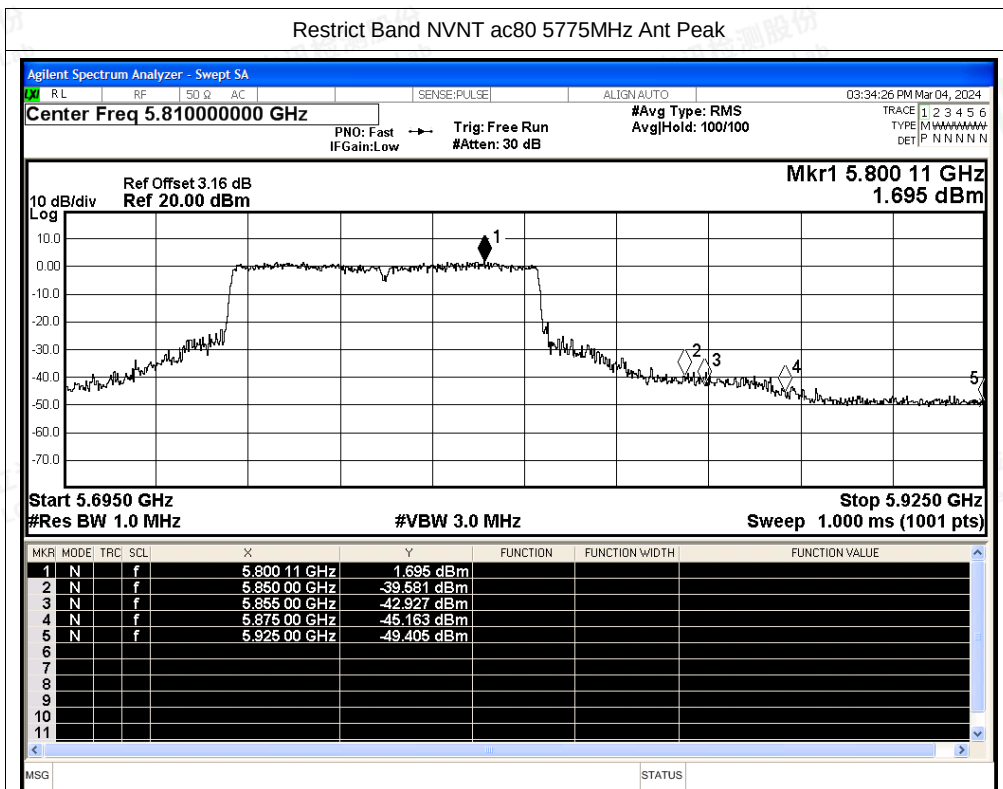


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E.5 Frequency Stability

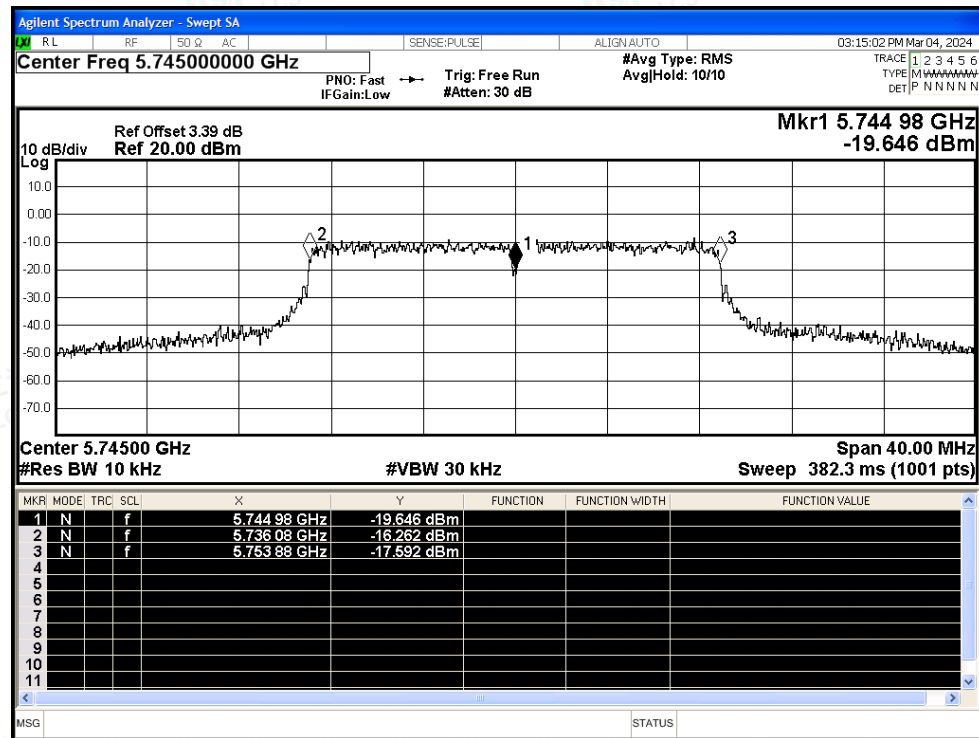
Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	ac20	5745	Ant	5744.98	-20000	-3.48	25	Pass
NVNT	ac20	5785	Ant	5784.98	-20000	-3.46	25	Pass
NVNT	ac20	5825	Ant	5824.98	-20000	-3.43	25	Pass
NVNT	ac40	5755	Ant	5755	0	0	25	Pass
NVNT	ac40	5795	Ant	5795	0	0	25	Pass
NVNT	ac80	5775	Ant	5775	0	0	25	Pass



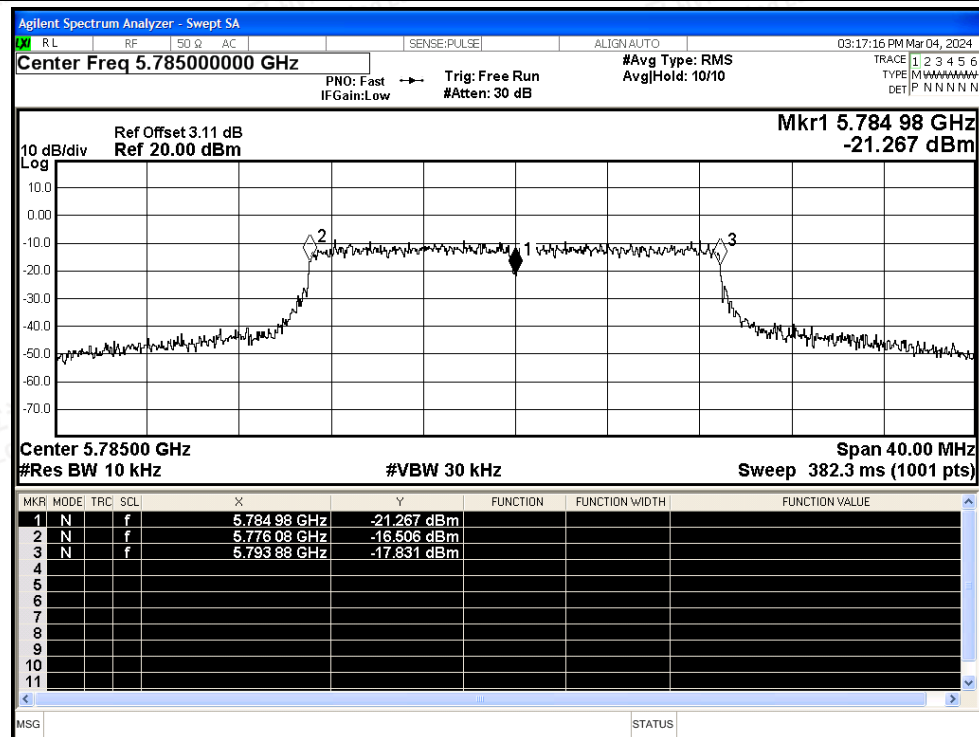


Test Graphs

Freq. Stability NVNT ac20 5745MHz Ant



Freq. Stability NVNT ac20 5785MHz Ant



Shenzhen LCS Compliance Testing Laboratory Ltd.

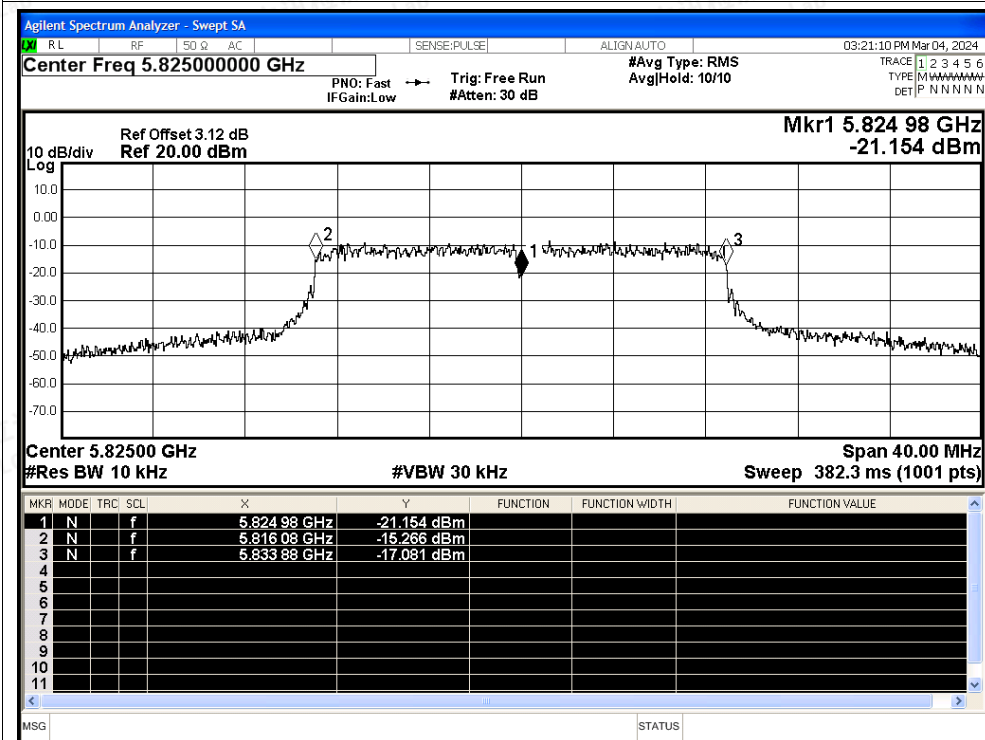
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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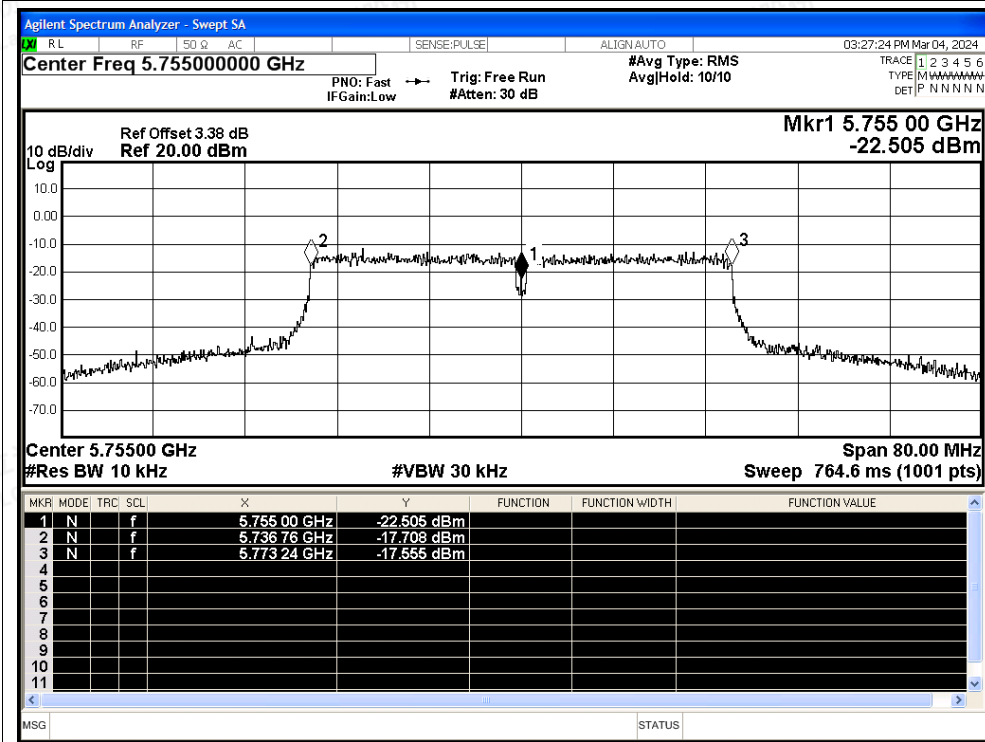
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Freq. Stability NVNT ac20 5825MHz Ant



Freq. Stability NVNT ac40 5755MHz Ant

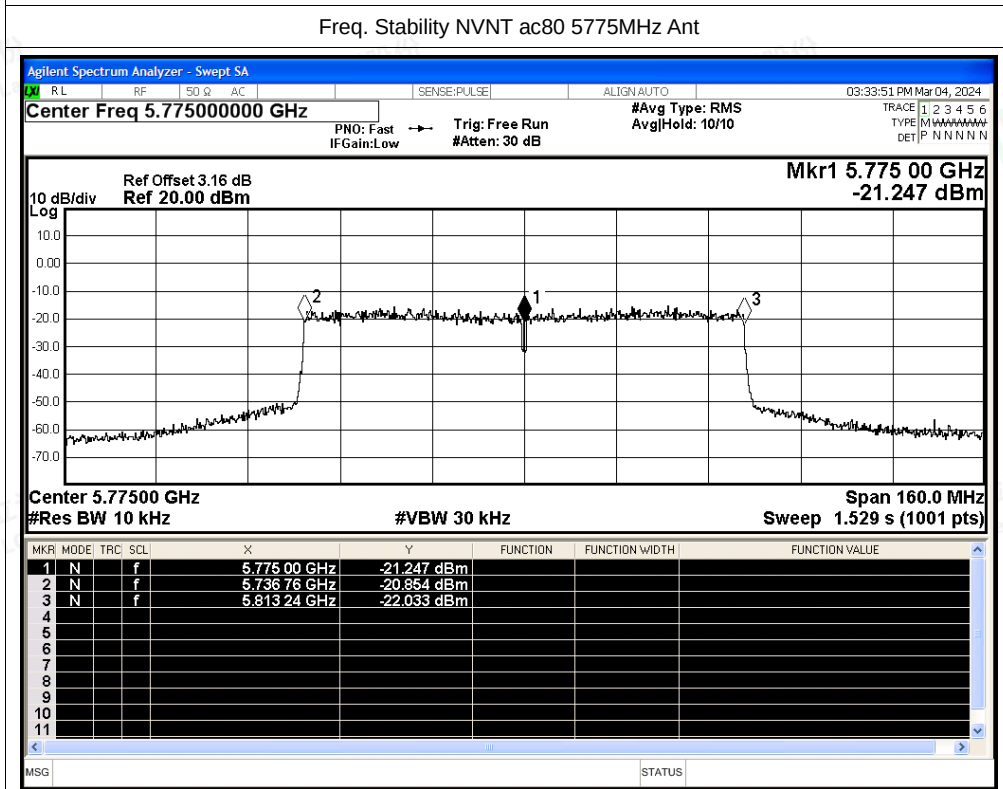
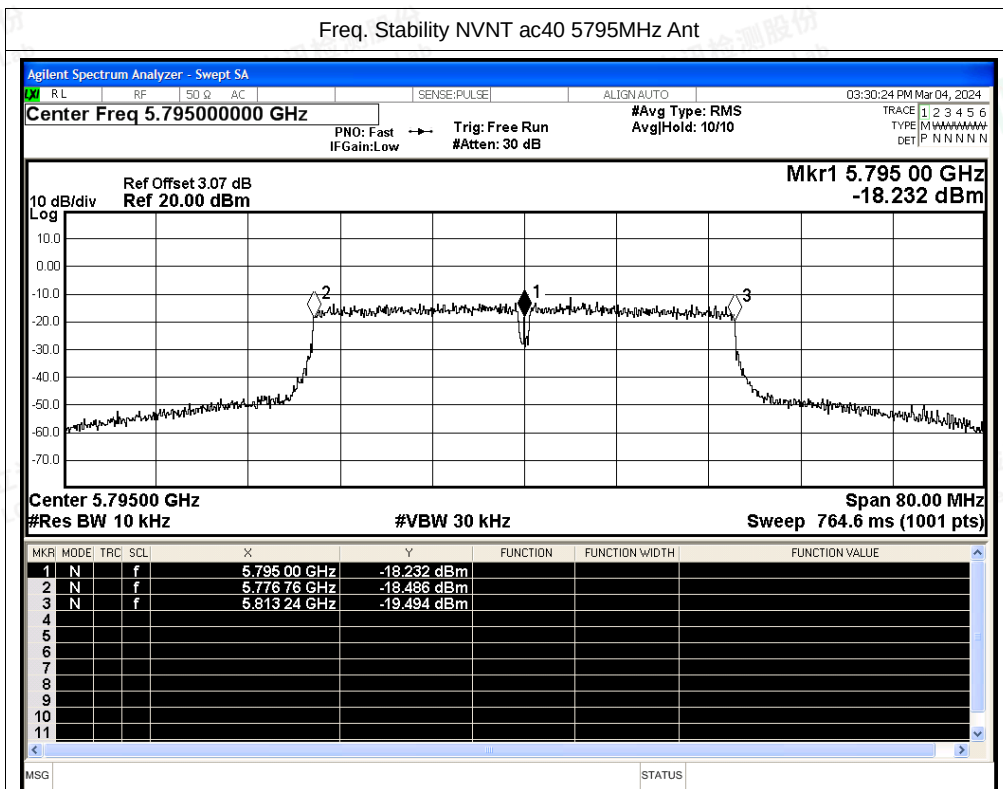


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E.6 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5745	Ant	97.72	0.1	0.37
NVNT	a	5785	Ant	97.72	0.1	0.37
NVNT	a	5825	Ant	97.75	0.1	0.37
NVNT	n20	5745	Ant	97.29	0.12	0.44
NVNT	n20	5785	Ant	97.29	0.12	0.44
NVNT	n20	5825	Ant	97.33	0.12	0.44
NVNT	n40	5755	Ant	94.71	0.24	0.9
NVNT	n40	5795	Ant	94.71	0.24	0.9
NVNT	ac20	5745	Ant	97.29	0.12	0.44
NVNT	ac20	5785	Ant	97.29	0.12	0.44
NVNT	ac20	5825	Ant	97.29	0.12	0.44
NVNT	ac40	5755	Ant	94.72	0.24	0.9
NVNT	ac40	5795	Ant	94.72	0.24	0.9
NVNT	ac80	5775	Ant	89.65	0.47	1.86



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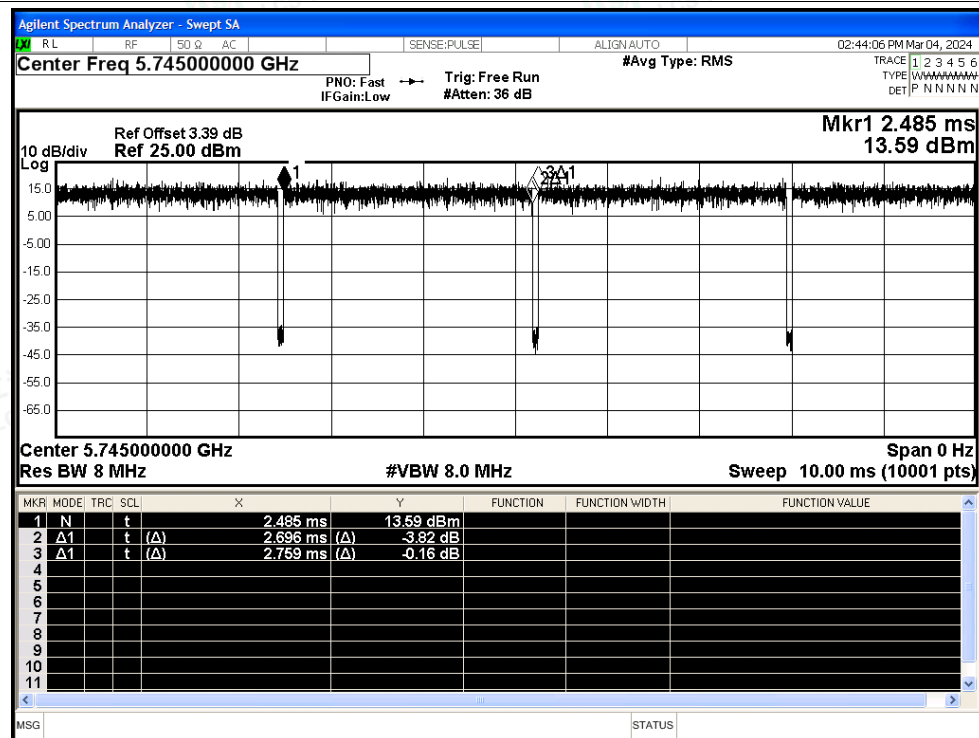
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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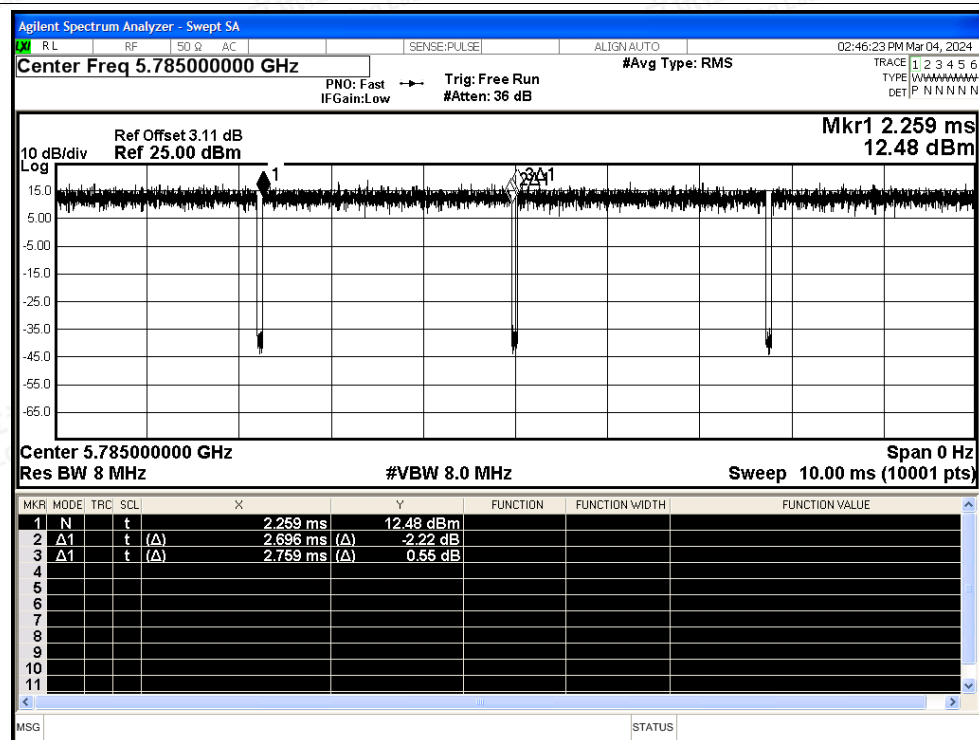


Test Graphs

Duty Cycle NVNT a 5745MHz Ant



Duty Cycle NVNT a 5785MHz Ant

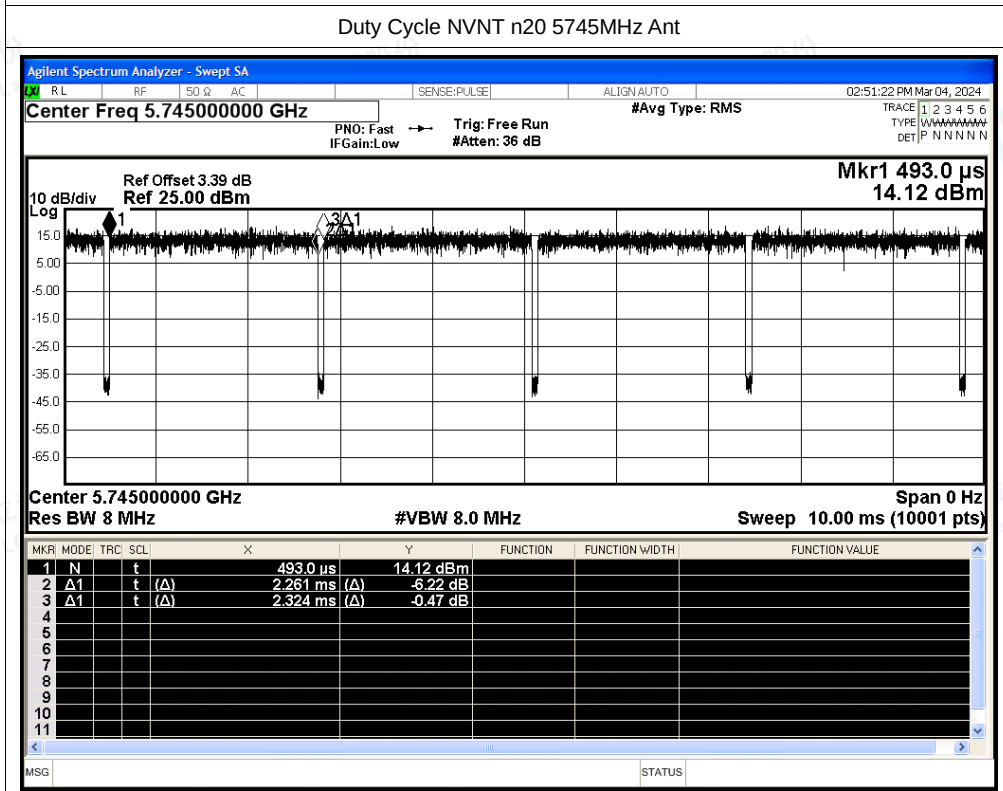
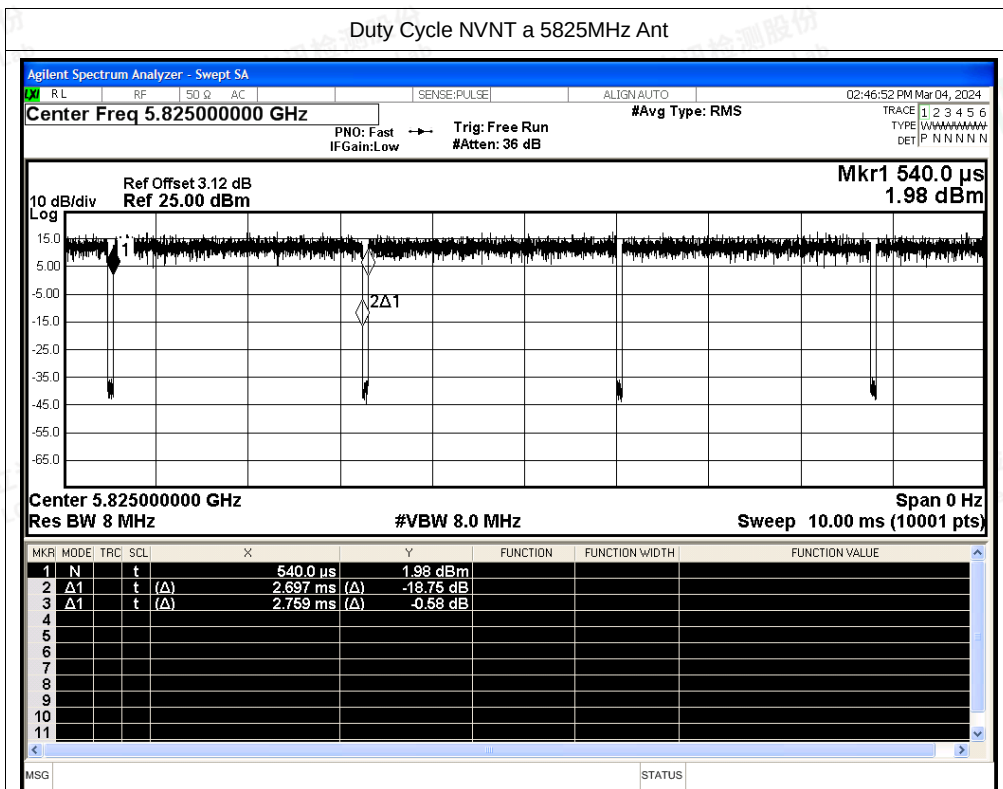


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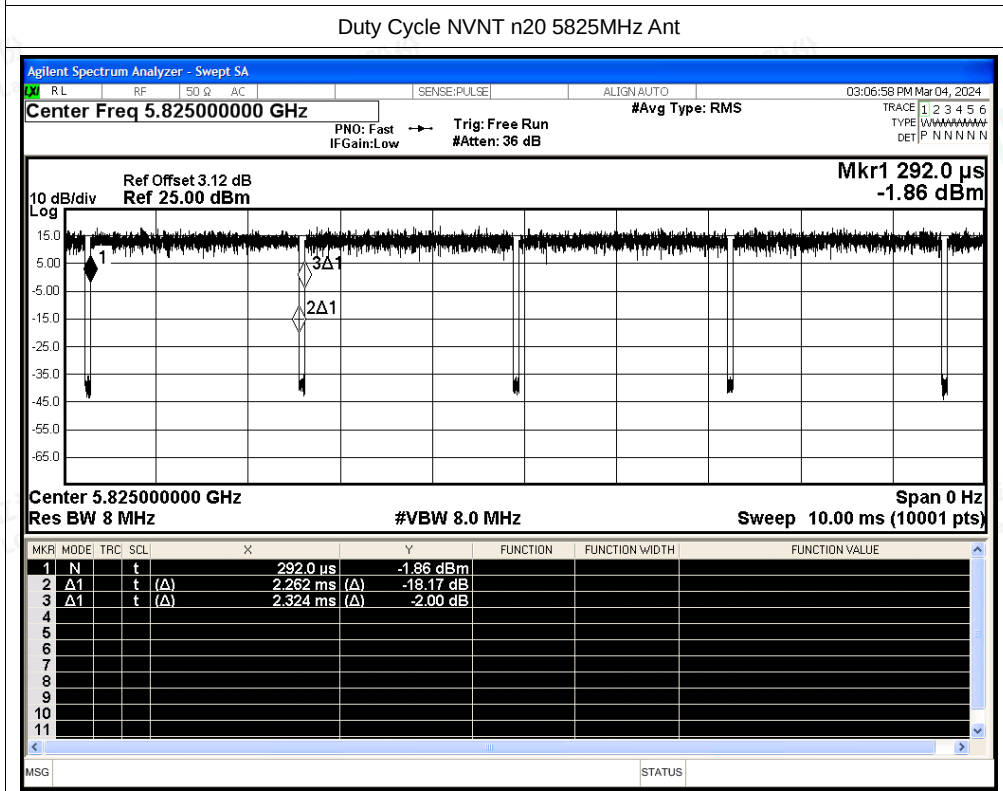
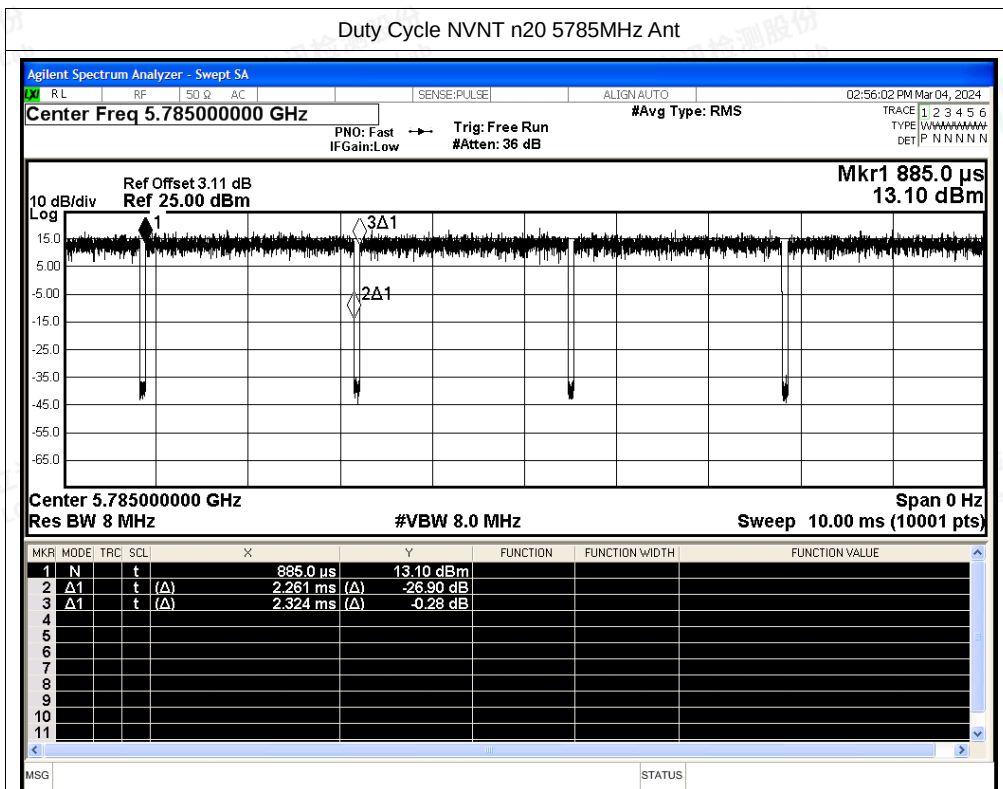


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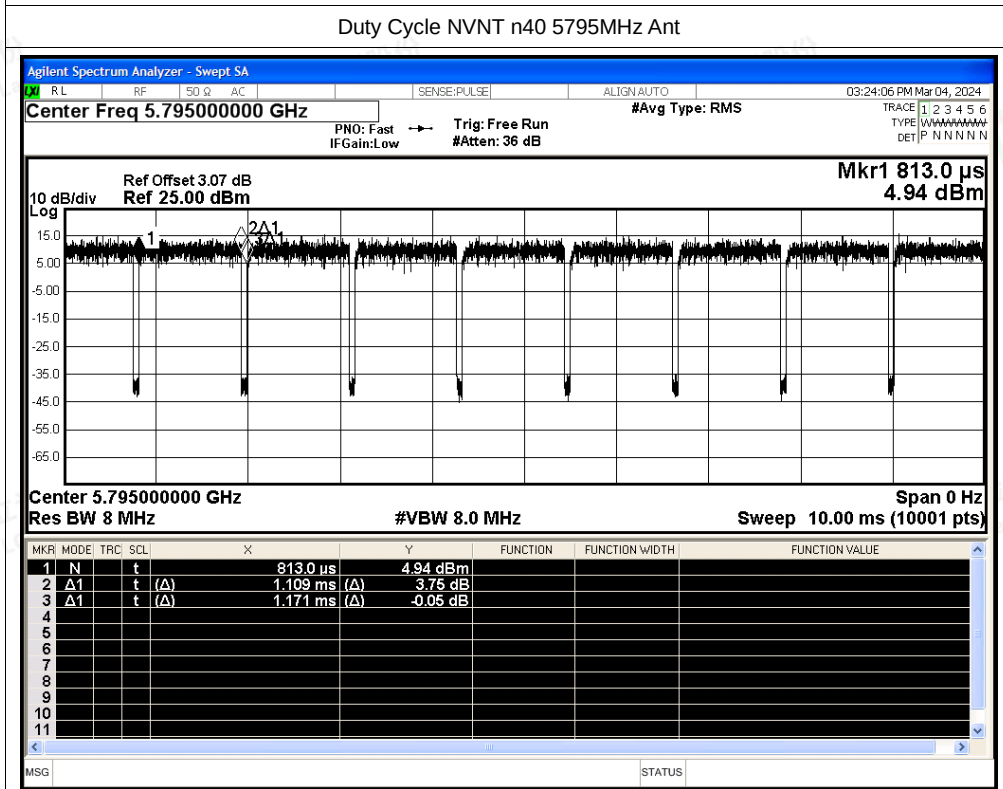
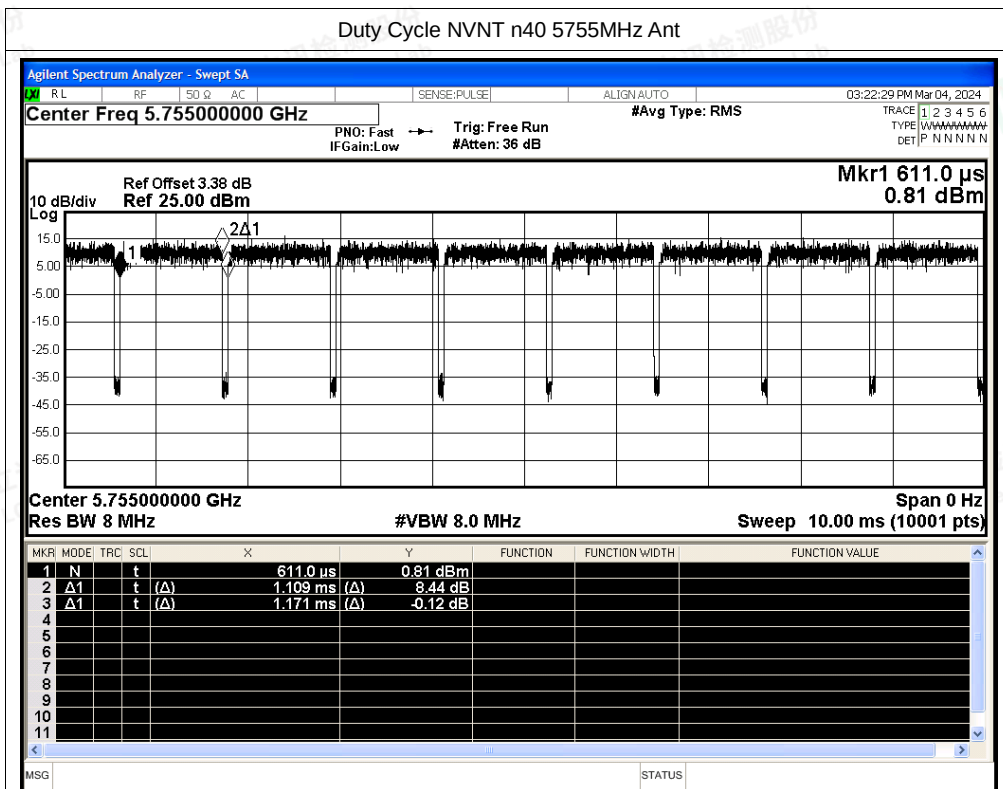


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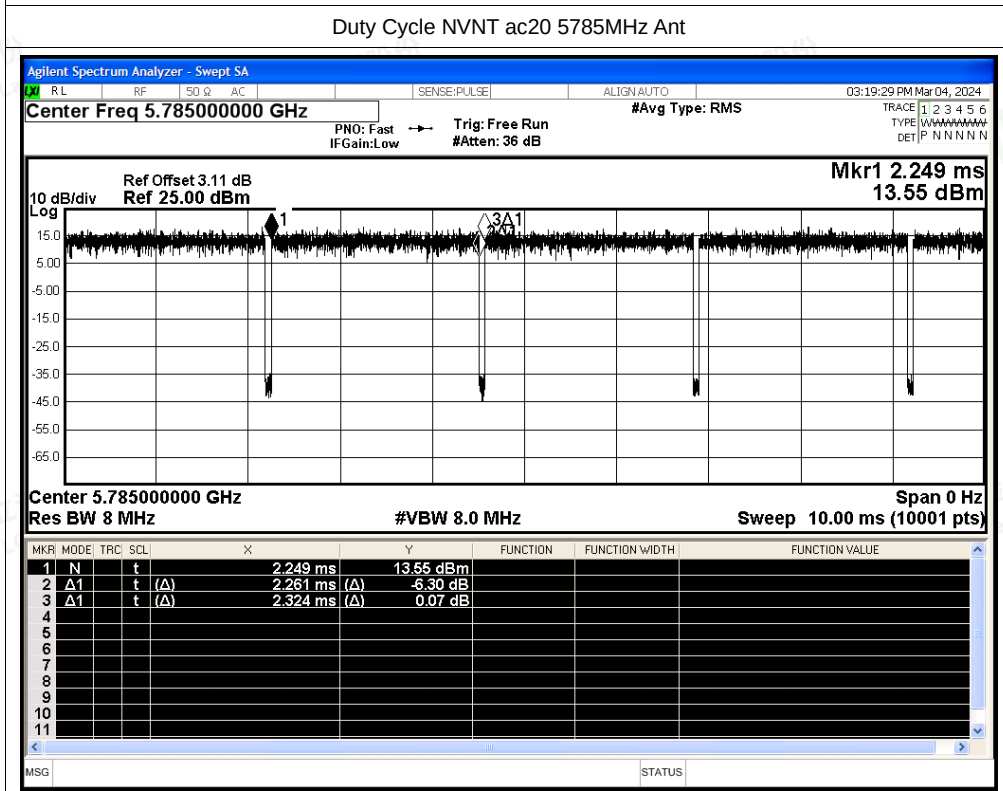
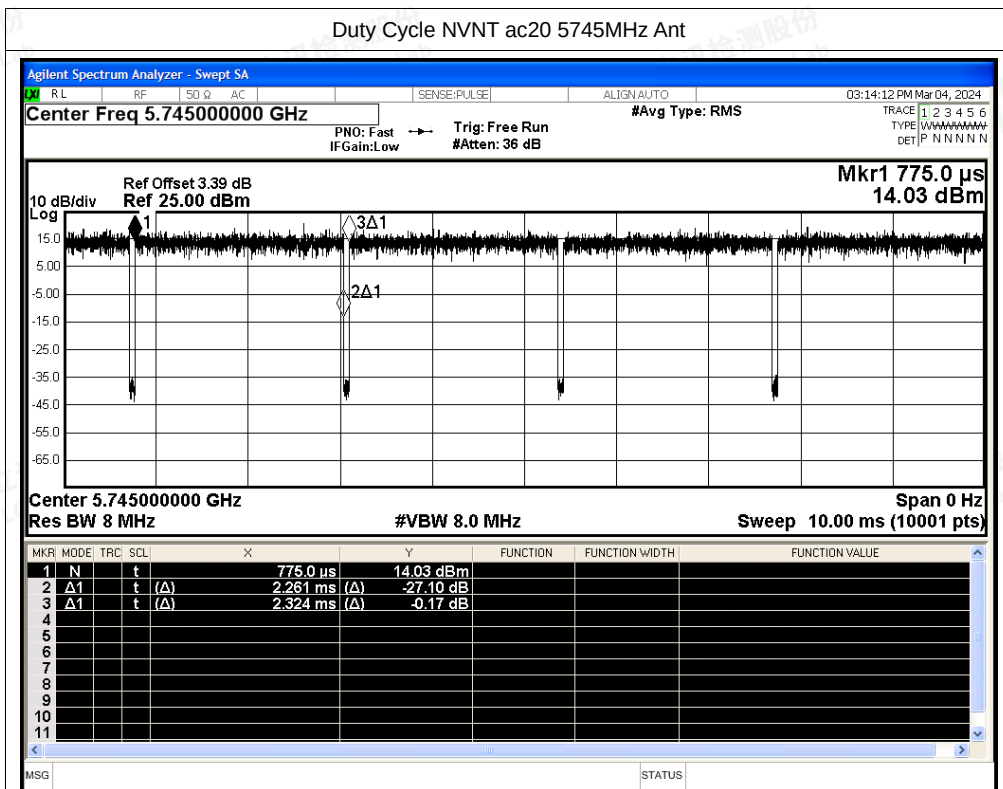


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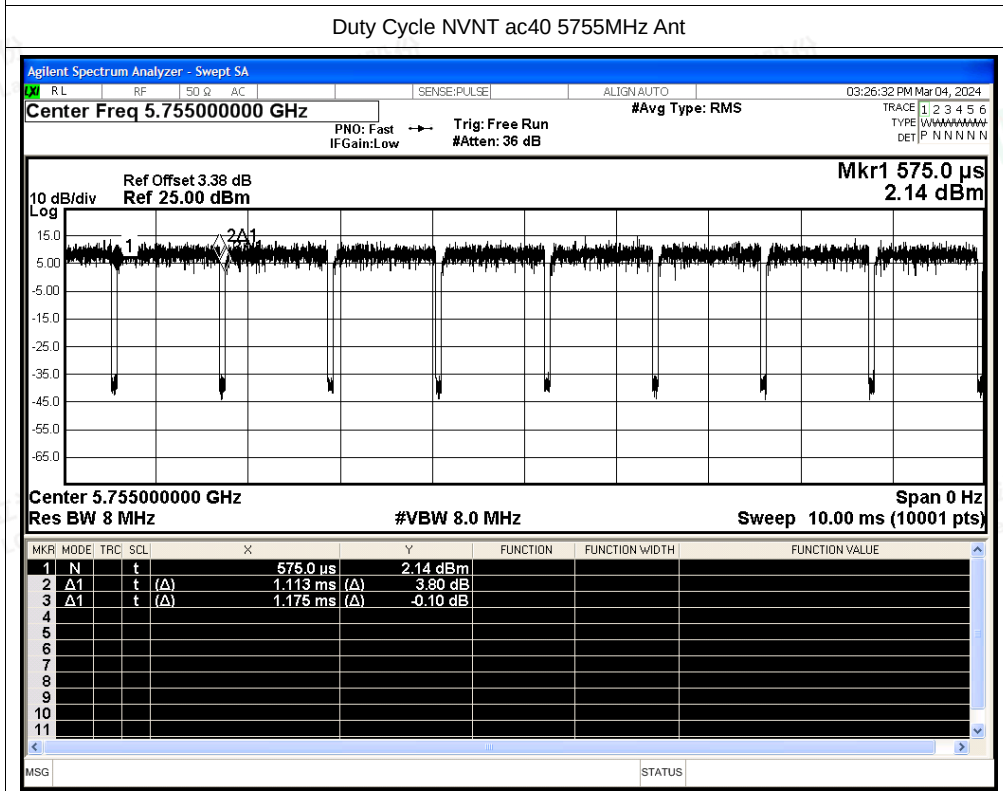
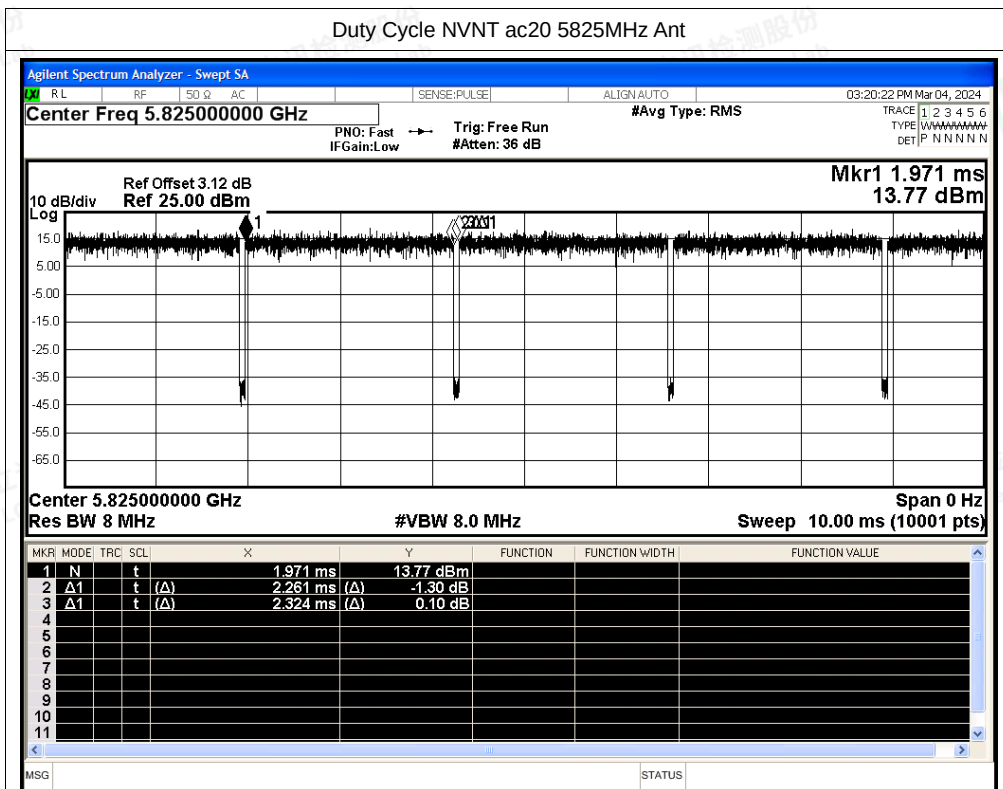


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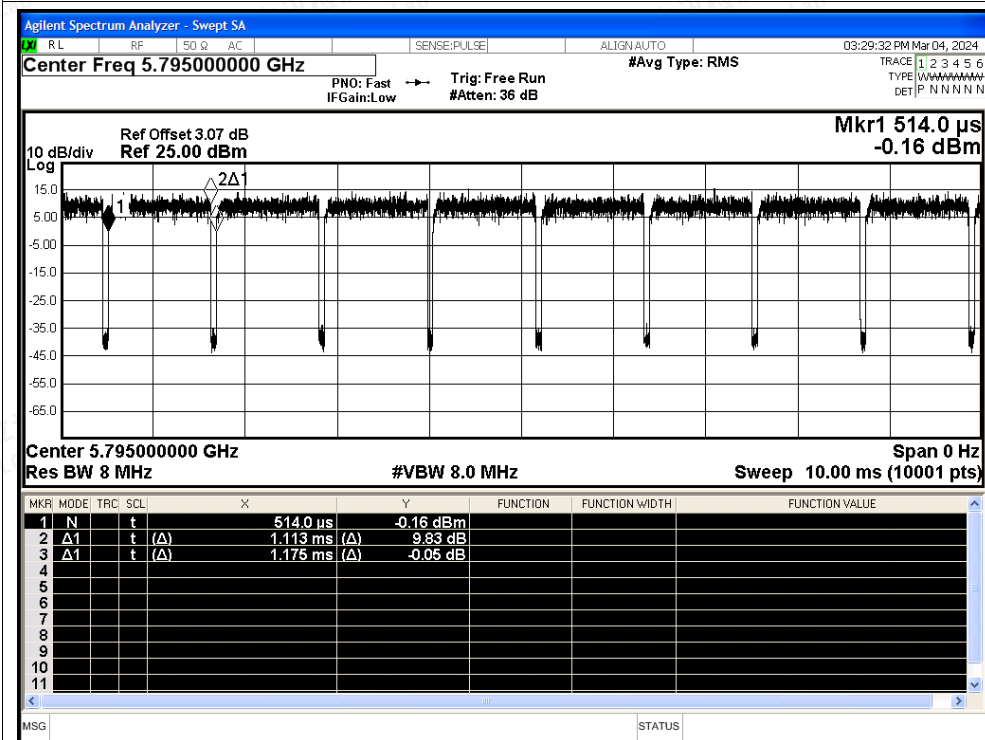
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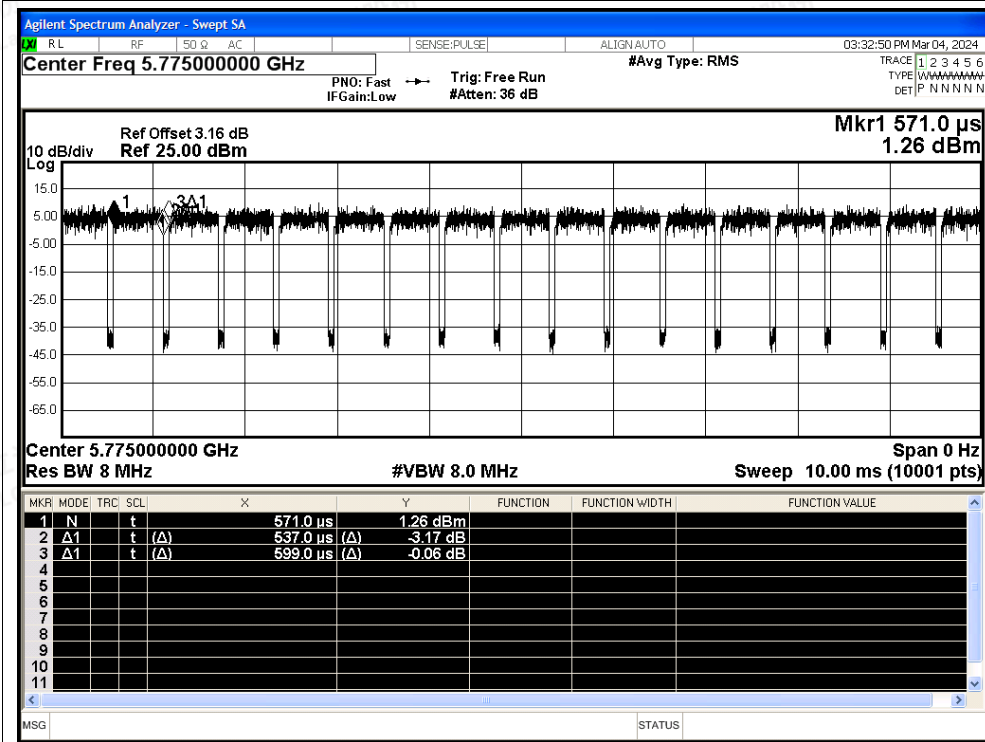
Scan code to check authenticity



Duty Cycle NVNT ac40 5795MHz Ant



Duty Cycle NVNT ac80 5775MHz Ant



Shenzhen LCS Compliance Testing Laboratory Ltd.

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