



Appendix D

RF Test Data for 5.5GWIFI (Conducted Measurement)

Product Name: BlueCash-05

Test Model: BlueCash-05

Environmental Conditions

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



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D.1 -26dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
NVNT	a	5500	Ant1	26.742	≥ 0.5	Pass
NVNT	a	5580	Ant1	28.023	≥ 0.5	Pass
NVNT	a	5700	Ant1	24.828	≥ 0.5	Pass
NVNT	n20	5500	Ant1	23.218	≥ 0.5	Pass
NVNT	n20	5580	Ant1	23.921	≥ 0.5	Pass
NVNT	n20	5700	Ant1	23.854	≥ 0.5	Pass
NVNT	n40	5510	Ant1	39.946	≥ 0.5	Pass
NVNT	n40	5550	Ant1	39.428	≥ 0.5	Pass
NVNT	n40	5670	Ant1	39.748	≥ 0.5	Pass
NVNT	ac20	5500	Ant1	25.587	≥ 0.5	Pass
NVNT	ac20	5580	Ant1	22.067	≥ 0.5	Pass
NVNT	ac20	5700	Ant1	22.672	≥ 0.5	Pass
NVNT	ac40	5510	Ant1	39.81	≥ 0.5	Pass
NVNT	ac40	5550	Ant1	40.262	≥ 0.5	Pass
NVNT	ac40	5670	Ant1	39.576	≥ 0.5	Pass
NVNT	ac80	5530	Ant1	79.385	≥ 0.5	Pass
NVNT	ac80	5610	Ant1	79.296	≥ 0.5	Pass

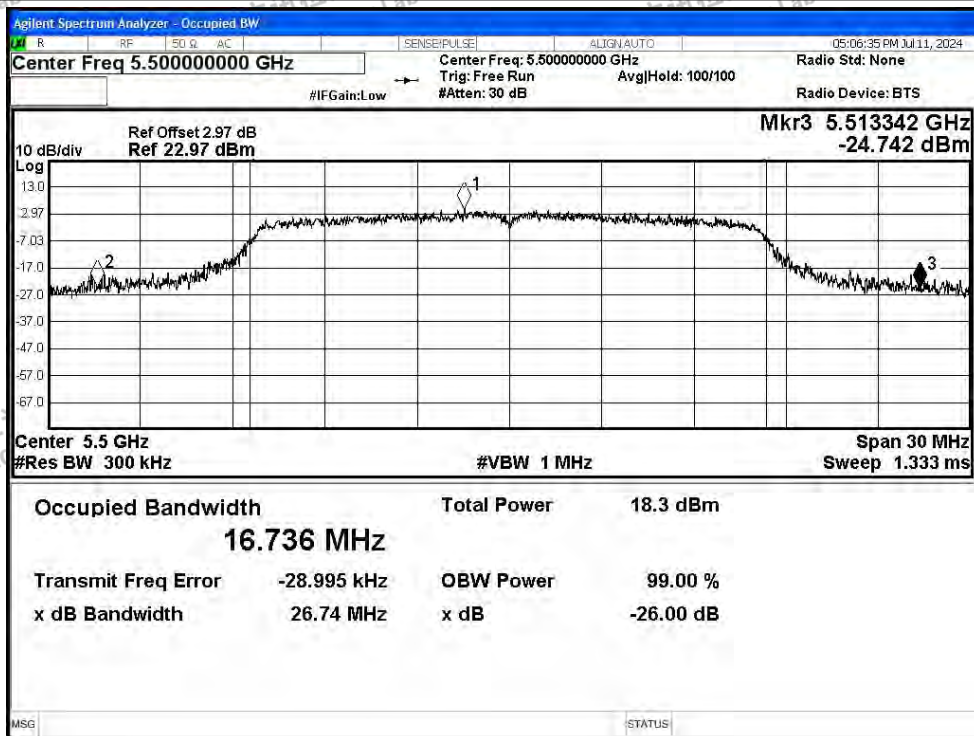


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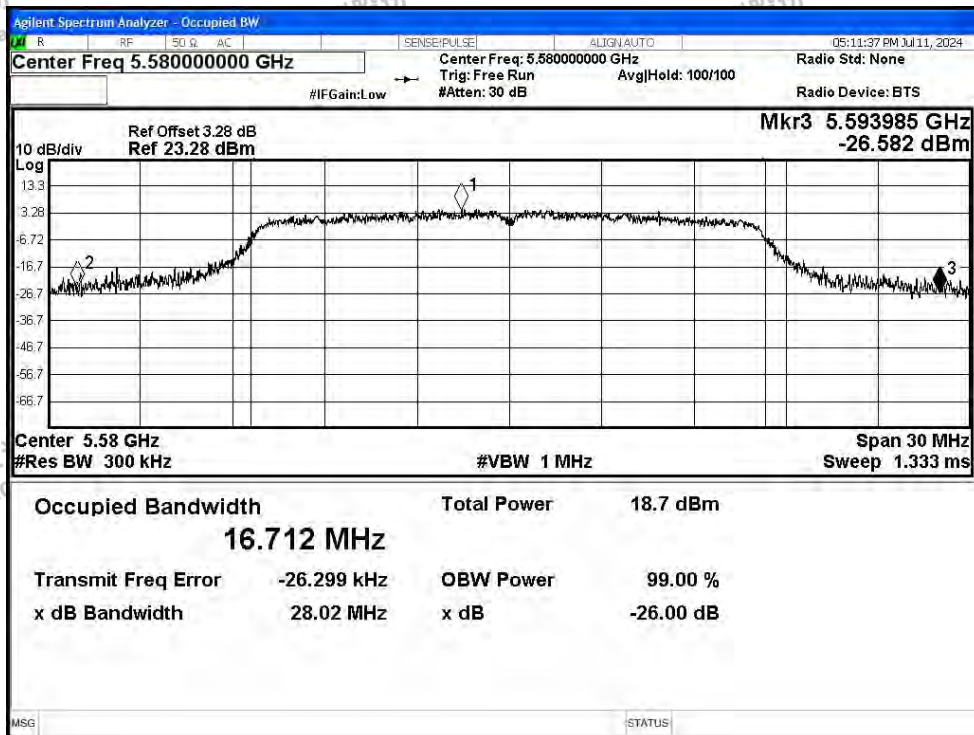


Test Graphs

-26dB Bandwidth NVNT a 5500MHz Ant1



-26dB Bandwidth NVNT a 5580MHz Ant1



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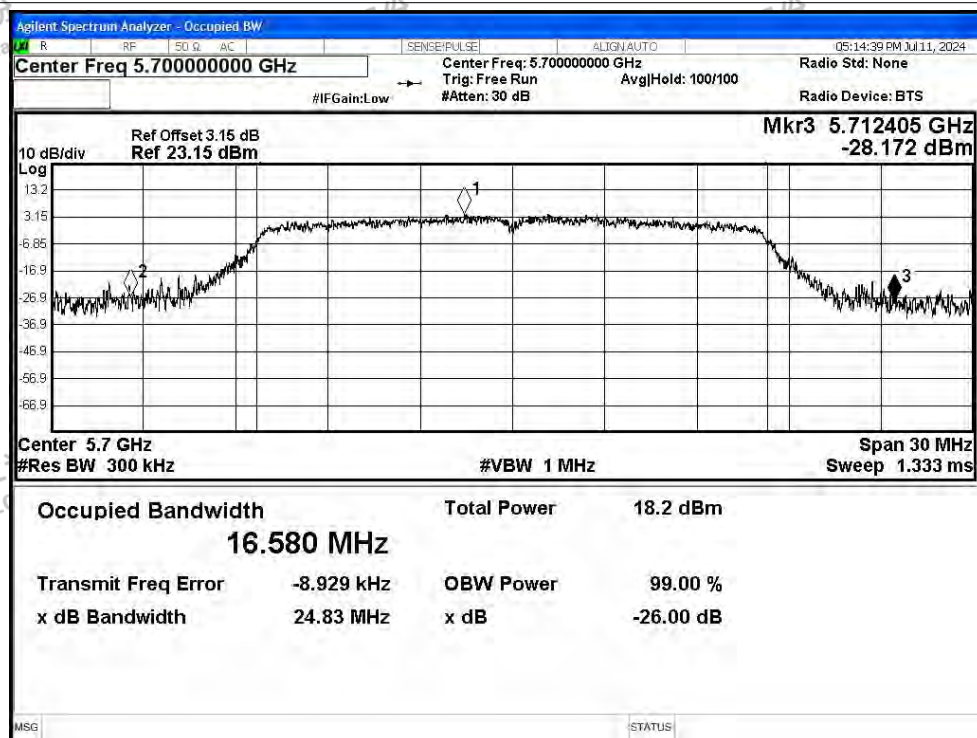
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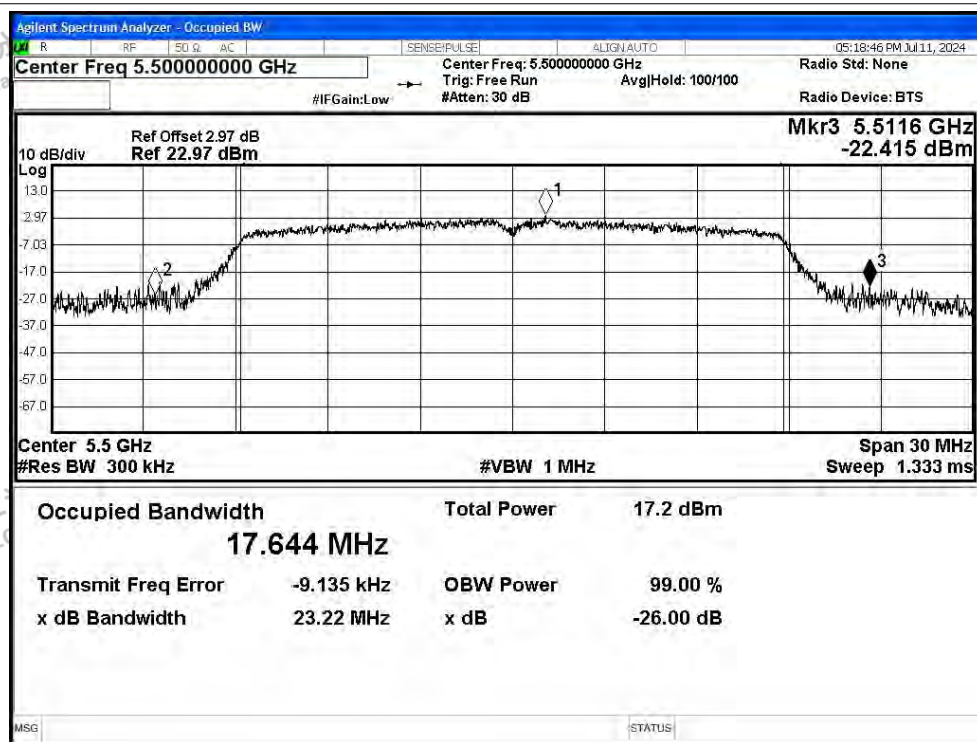
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-26dB Bandwidth NVNT a 5700MHz Ant1



-26dB Bandwidth NVNT n20 5500MHz Ant1



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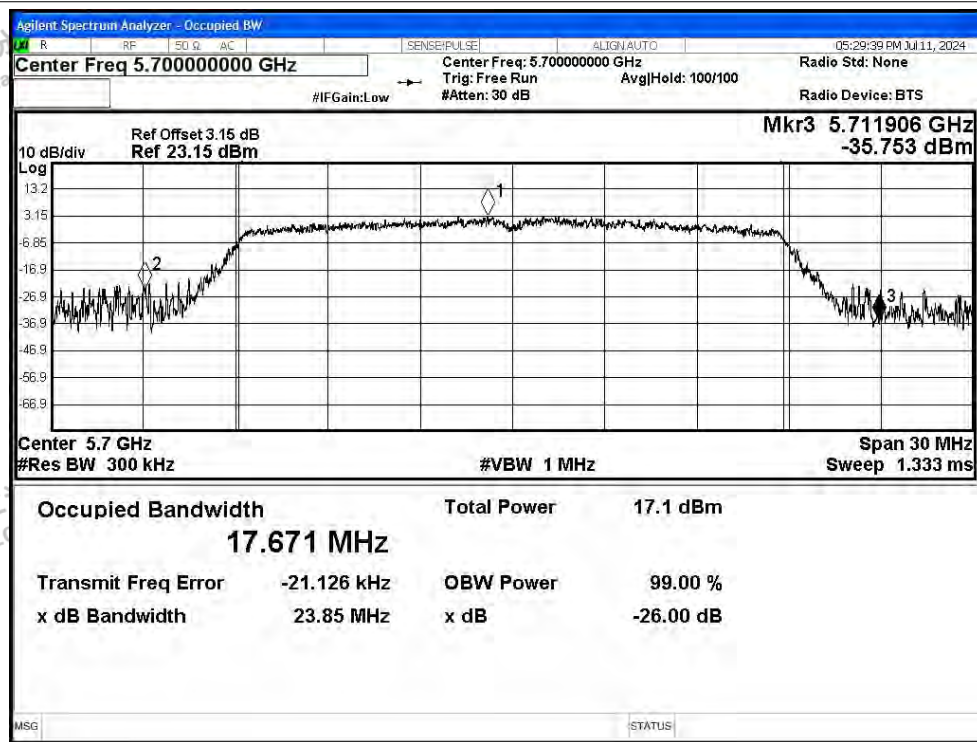
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-26dB Bandwidth NVNT n20 5580MHz Ant1



-26dB Bandwidth NVNT n20 5700MHz Ant1



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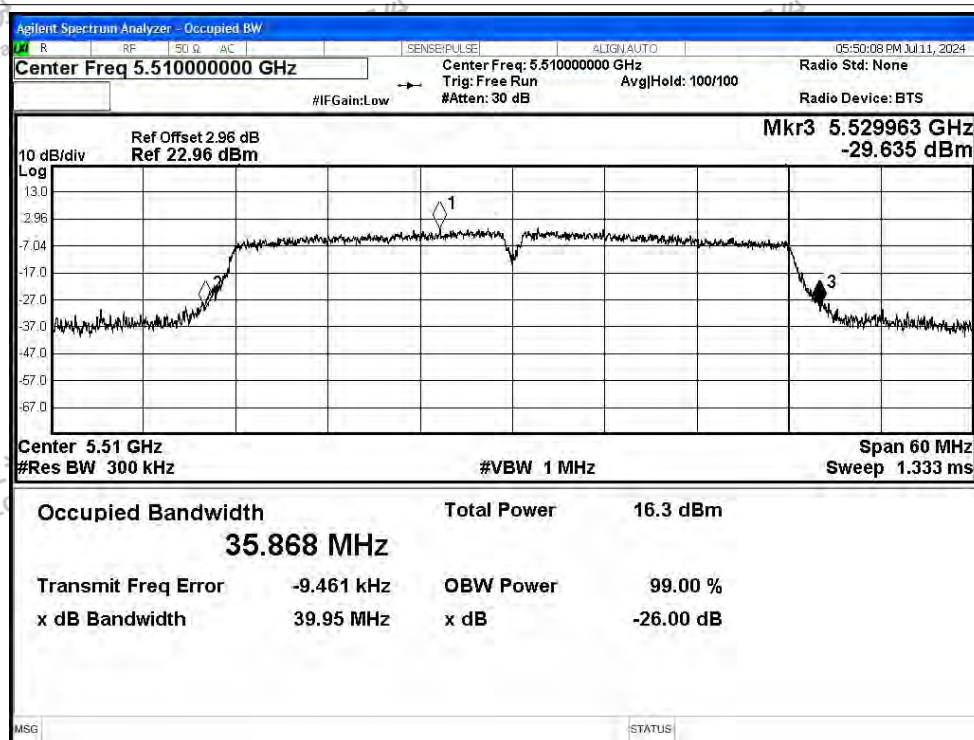
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-26dB Bandwidth NVNT n40 5510MHz Ant1



-26dB Bandwidth NVNT n40 5550MHz Ant1



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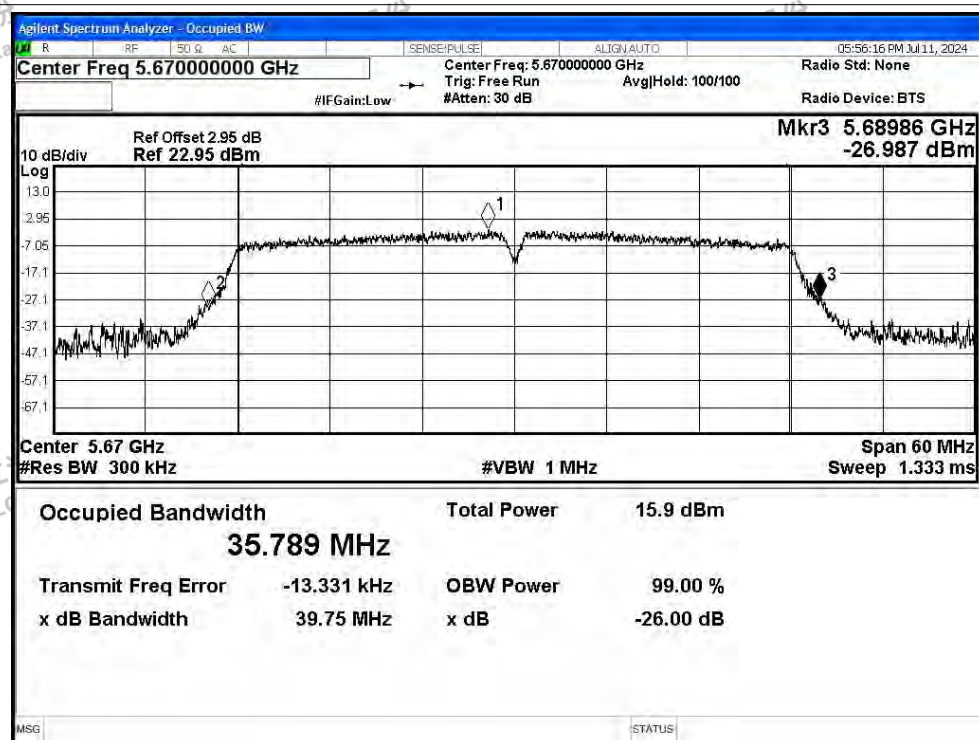
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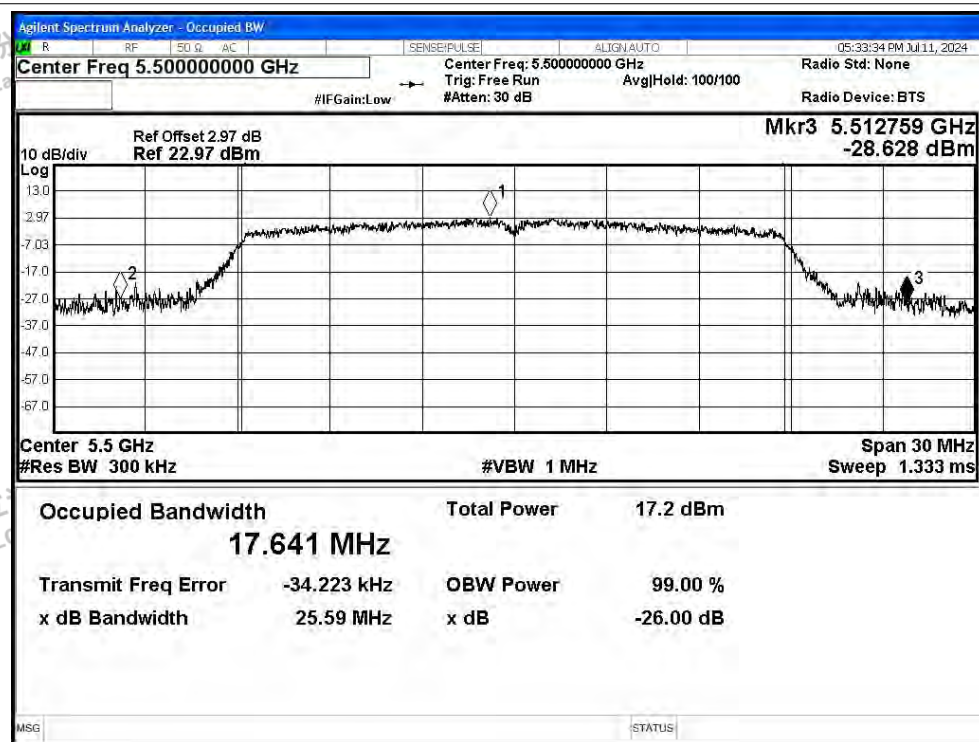
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-26dB Bandwidth NVNT n40 5670MHz Ant1



-26dB Bandwidth NVNT ac20 5500MHz Ant1



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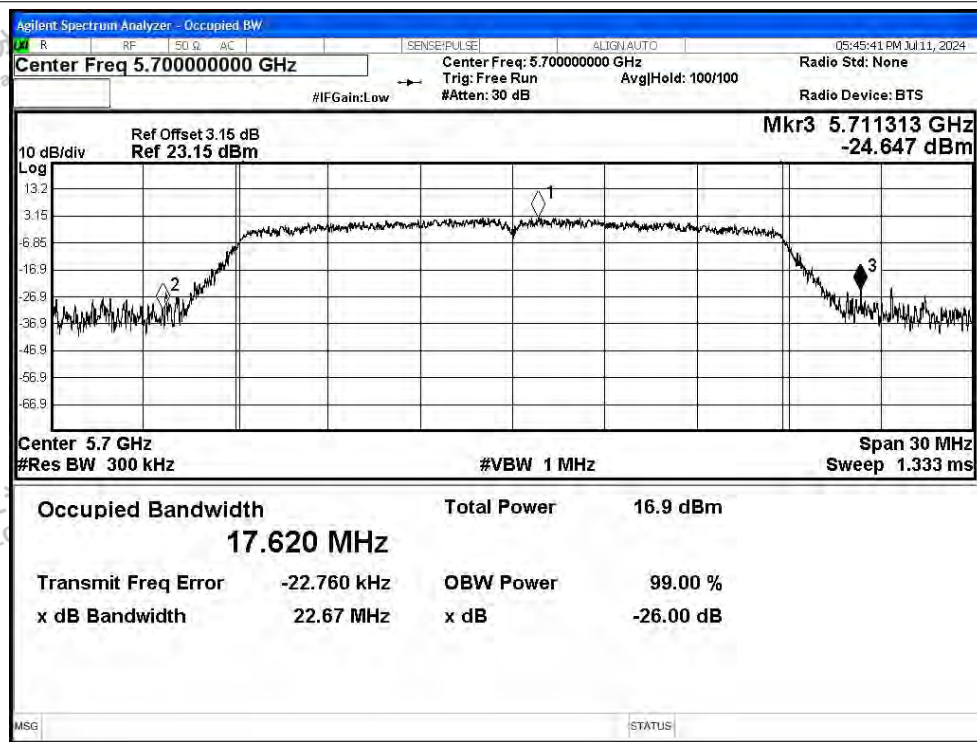
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-26dB Bandwidth NVNT ac20 5580MHz Ant1



-26dB Bandwidth NVNT ac20 5700MHz Ant1



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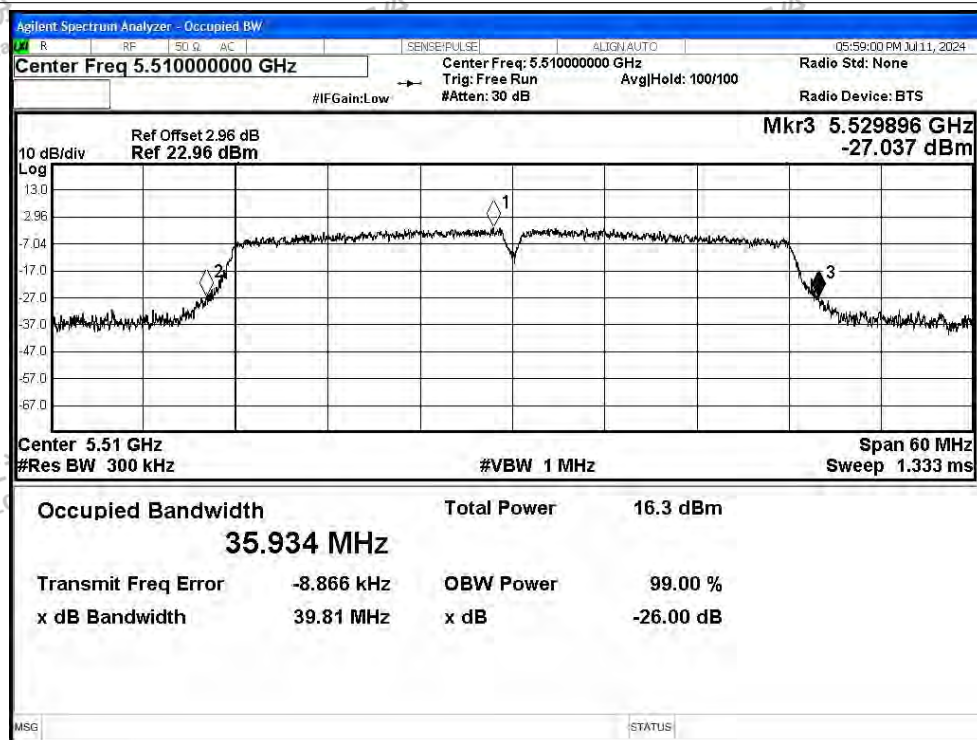
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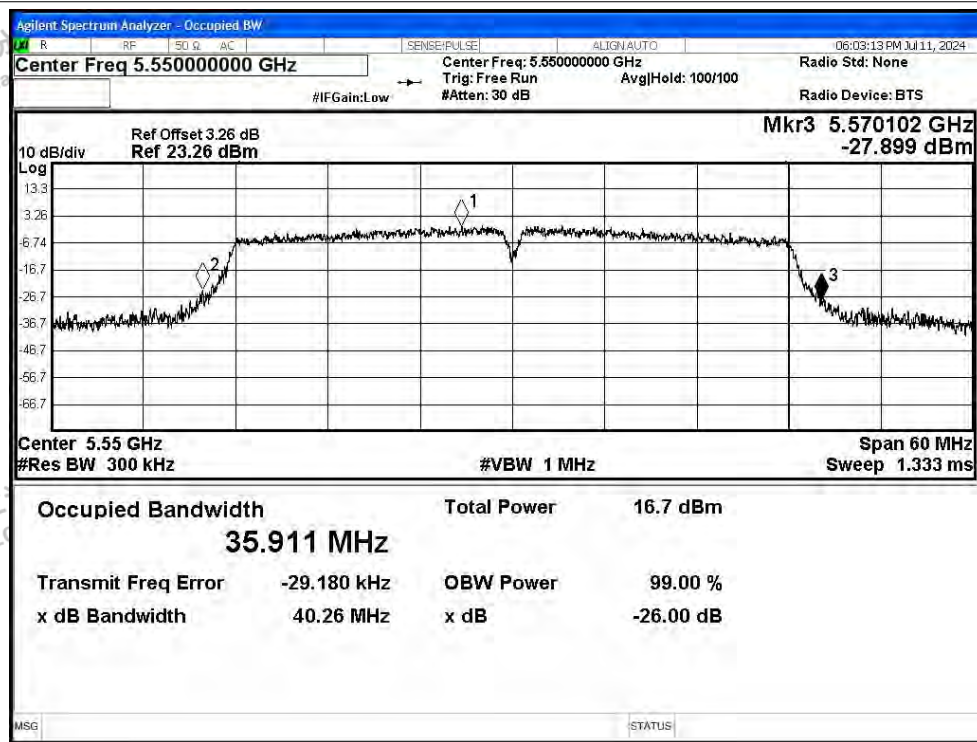
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-26dB Bandwidth NVNT ac40 5510MHz Ant1



-26dB Bandwidth NVNT ac40 5550MHz Ant1



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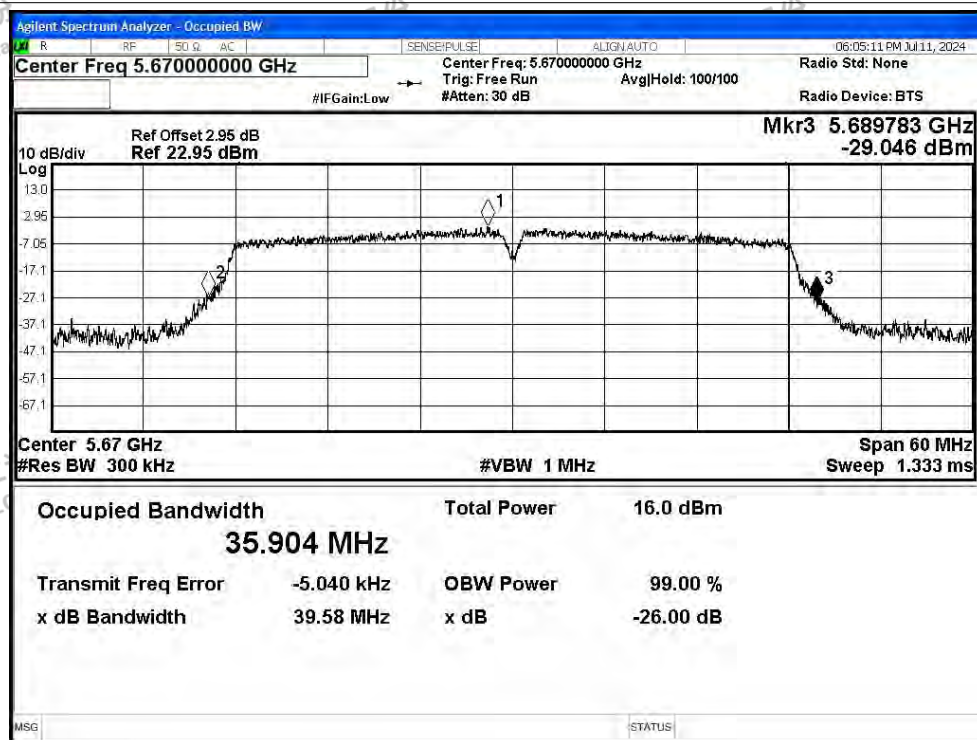
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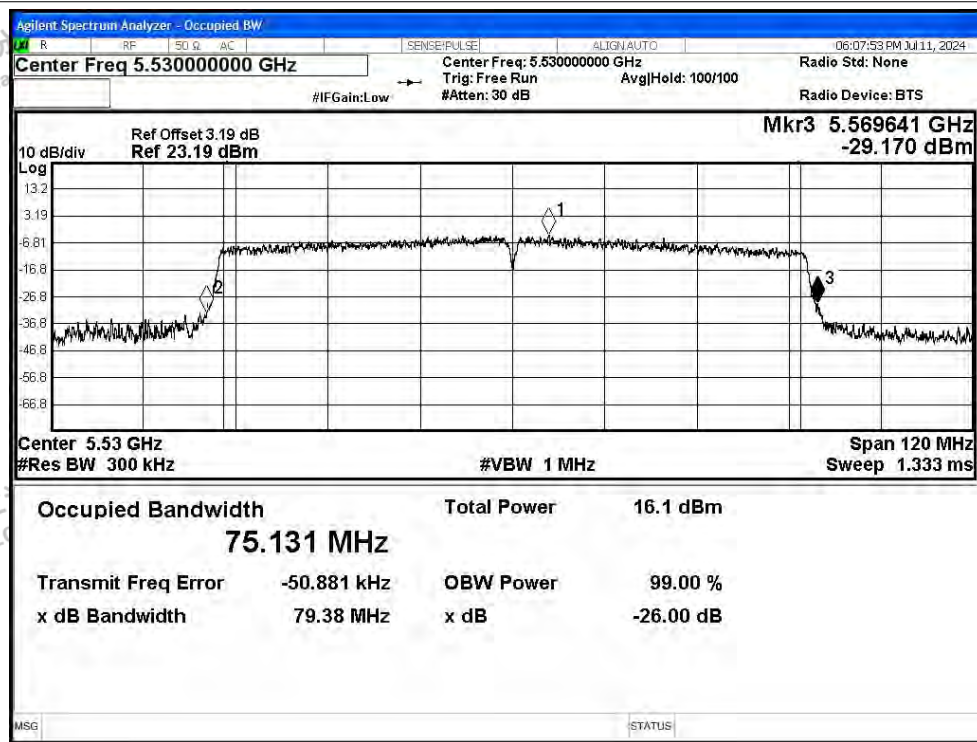
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-26dB Bandwidth NVNT ac40 5670MHz Ant1



-26dB Bandwidth NVNT ac80 5530MHz Ant1



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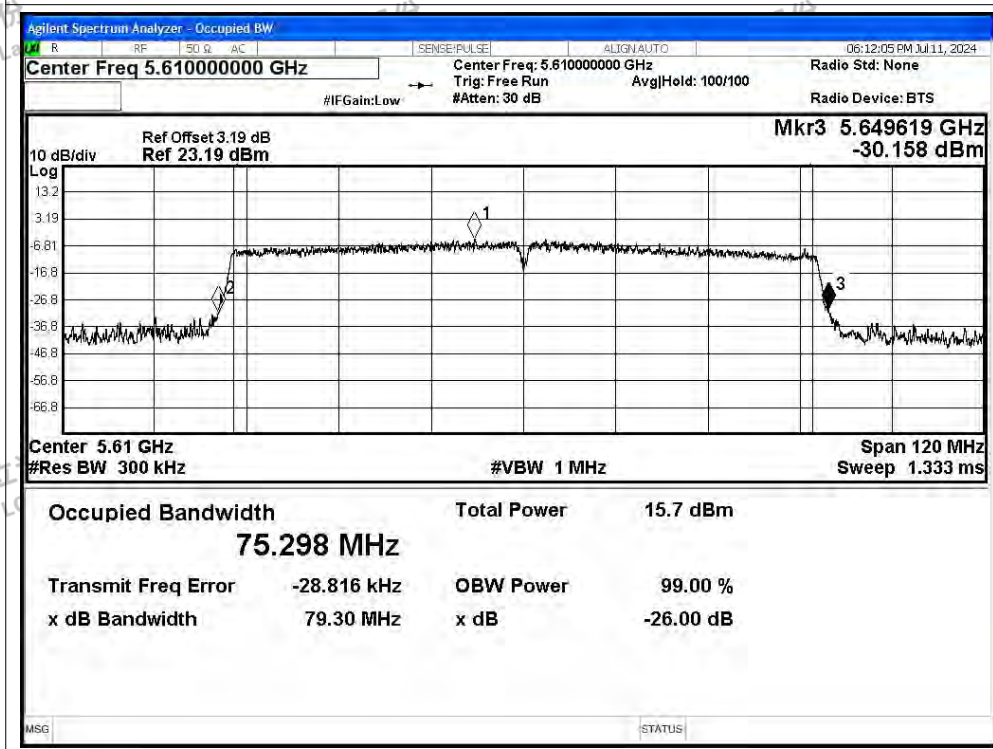
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-26dB Bandwidth NVNT ac80 5610MHz Ant1





D.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	17.34	0.13	17.47	24	Pass
NVNT	a	5580	Ant1	17.17	0.13	17.3	24	Pass
NVNT	a	5700	Ant1	17.13	0.13	17.26	24	Pass
NVNT	n20	5500	Ant1	16.54	0.14	16.68	24	Pass
NVNT	n20	5580	Ant1	16.22	0.14	16.36	24	Pass
NVNT	n20	5700	Ant1	16.19	0.14	16.33	24	Pass
NVNT	n40	5510	Ant1	16.22	0.15	16.37	24	Pass
NVNT	n40	5550	Ant1	16.64	0.15	16.79	24	Pass
NVNT	n40	5670	Ant1	16.33	0.15	16.48	24	Pass
NVNT	ac20	5500	Ant1	15.12	0.14	15.26	24	Pass
NVNT	ac20	5580	Ant1	15.62	0.14	15.76	24	Pass
NVNT	ac20	5700	Ant1	15.37	0.14	15.51	24	Pass
NVNT	ac40	5510	Ant1	15.58	0.15	15.73	24	Pass
NVNT	ac40	5550	Ant1	15.14	0.15	15.29	24	Pass
NVNT	ac40	5670	Ant1	15.46	0.15	15.61	24	Pass
NVNT	ac80	5530	Ant1	15.39	0.31	15.7	24	Pass
NVNT	ac80	5610	Ant1	15.1	0.31	15.41	24	Pass



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D.3 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5500	Ant1	7.48	0.13	7.61	11	Pass
NVNT	a	5580	Ant1	7.21	0.13	7.34	11	Pass
NVNT	a	5700	Ant1	7.7	0.13	7.83	11	Pass
NVNT	n20	5500	Ant1	6.89	0.14	7.03	11	Pass
NVNT	n20	5580	Ant1	6.44	0.14	6.58	11	Pass
NVNT	n20	5700	Ant1	6.53	0.14	6.67	11	Pass
NVNT	n40	5510	Ant1	3.59	0.15	3.74	11	Pass
NVNT	n40	5550	Ant1	4.15	0.15	4.3	11	Pass
NVNT	n40	5670	Ant1	3.52	0.15	3.67	11	Pass
NVNT	ac20	5500	Ant1	5.26	0.14	5.4	11	Pass
NVNT	ac20	5580	Ant1	5.8	0.14	5.94	11	Pass
NVNT	ac20	5700	Ant1	5.59	0.14	5.73	11	Pass
NVNT	ac40	5510	Ant1	2.69	0.15	2.84	11	Pass
NVNT	ac40	5550	Ant1	2.37	0.15	2.52	11	Pass
NVNT	ac40	5670	Ant1	2.75	0.15	2.9	11	Pass
NVNT	ac80	5530	Ant1	0.47	0.31	0.78	11	Pass
NVNT	ac80	5610	Ant1	-1.01	0.31	-0.7	11	Pass

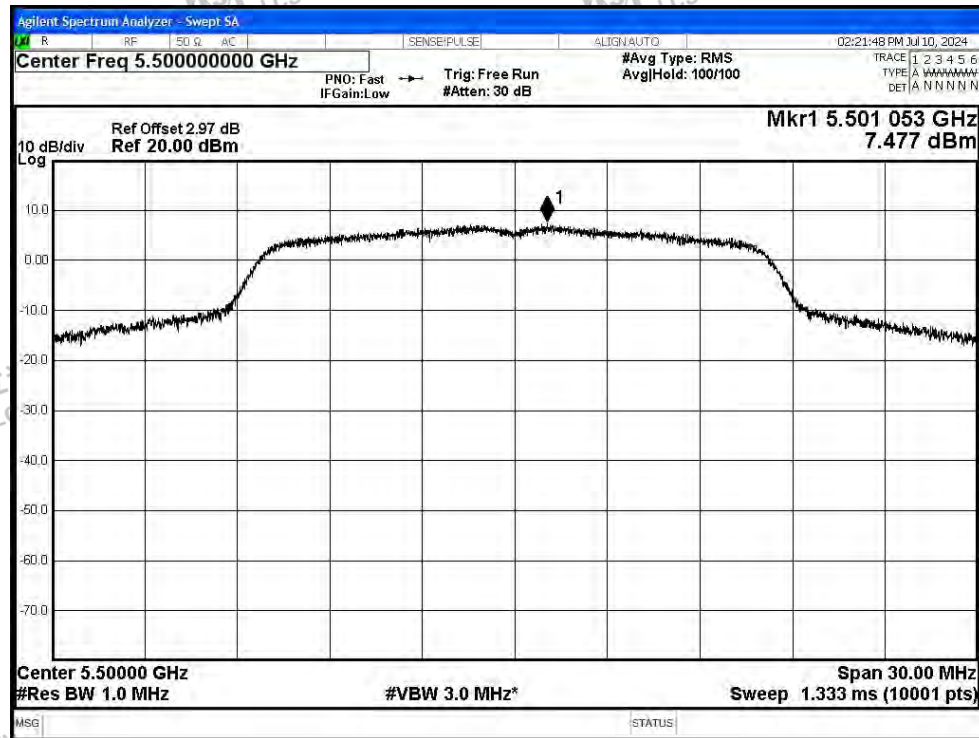


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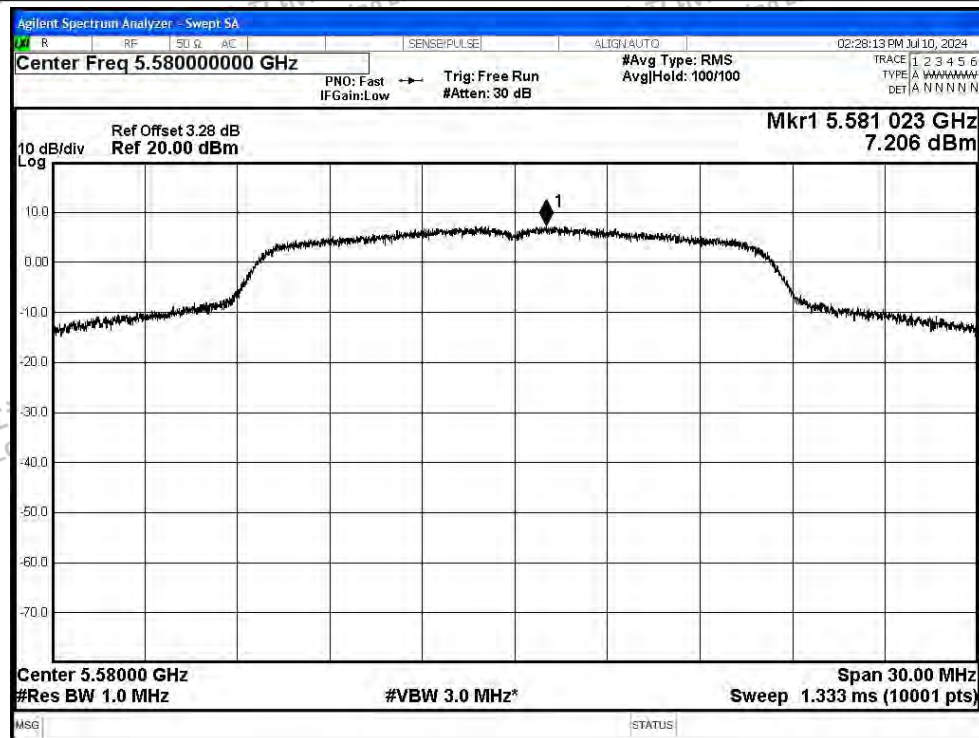


Test Graphs

PSD NVNT a 5500MHz Ant1



PSD NVNT a 5580MHz Ant1



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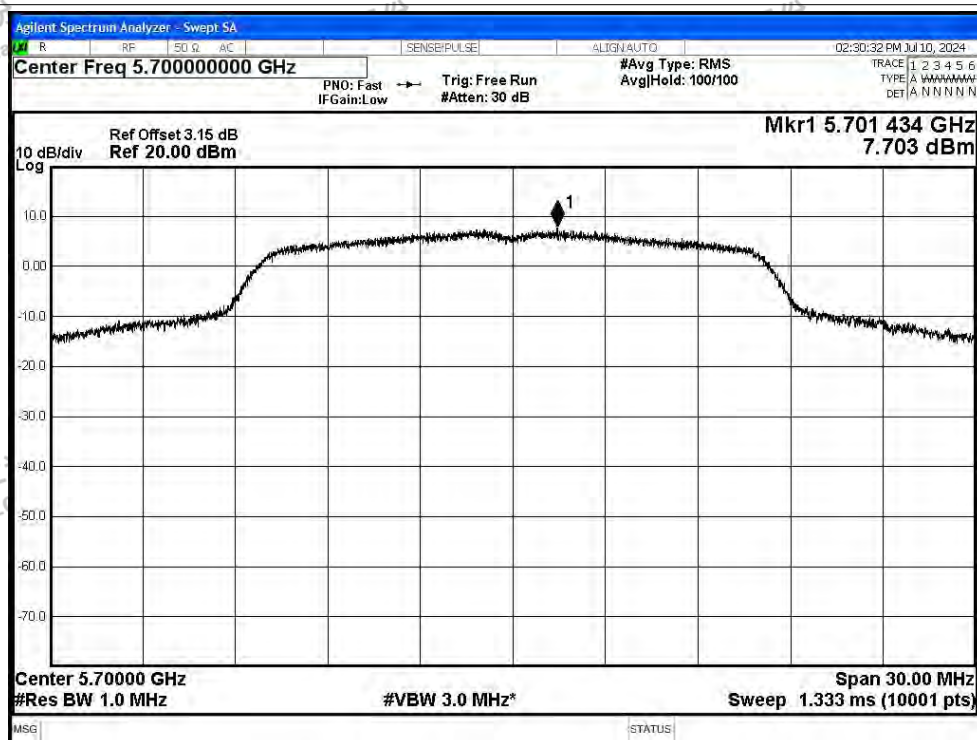
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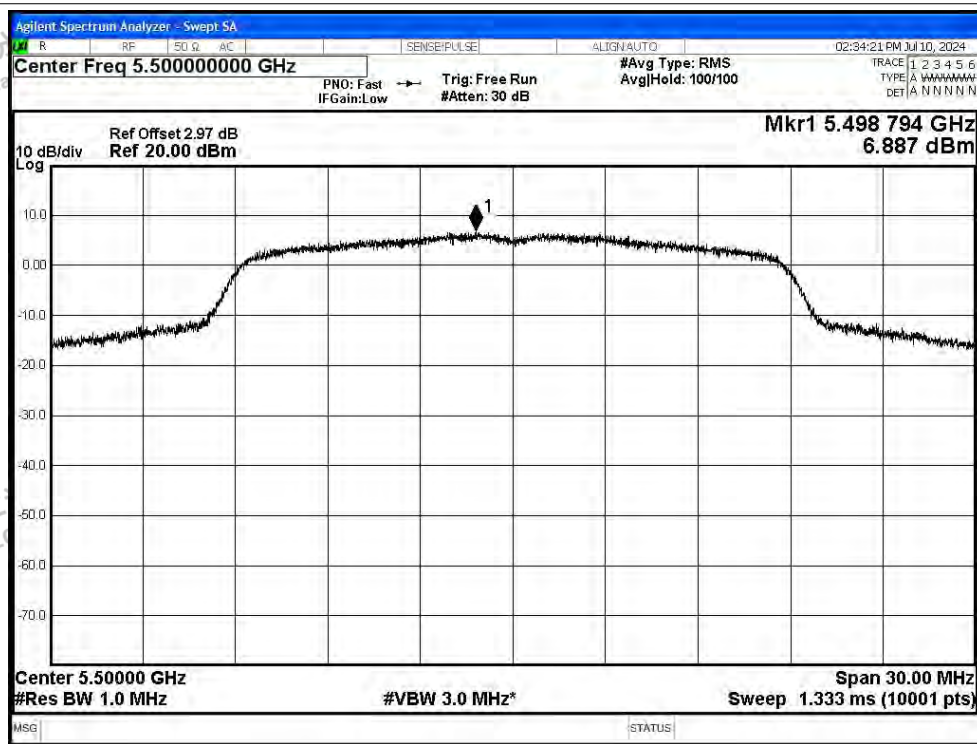
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PSD NVNT a 5700MHz Ant1



PSD NVNT n20 5500MHz Ant1



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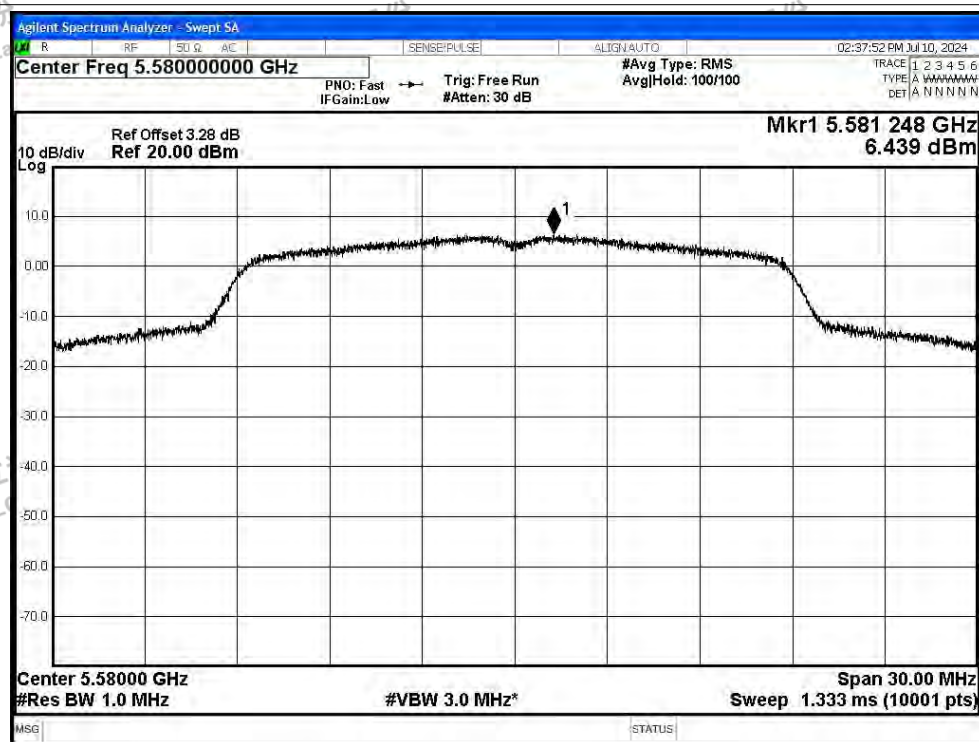
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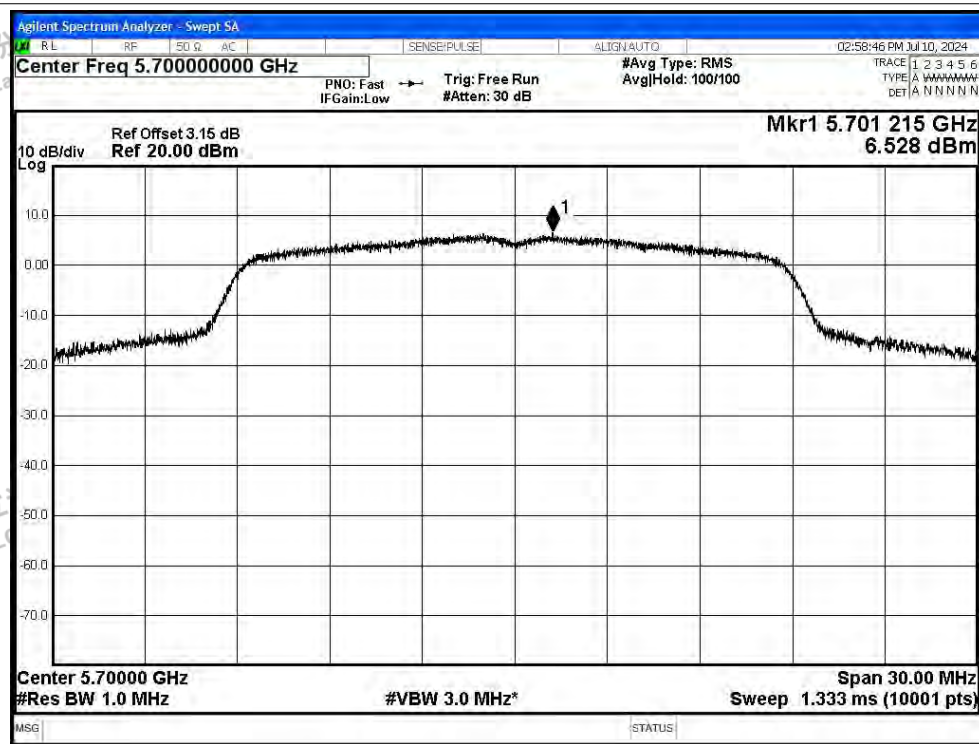
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PSD NVNT n20 5580MHz Ant1



PSD NVNT n20 5700MHz Ant1



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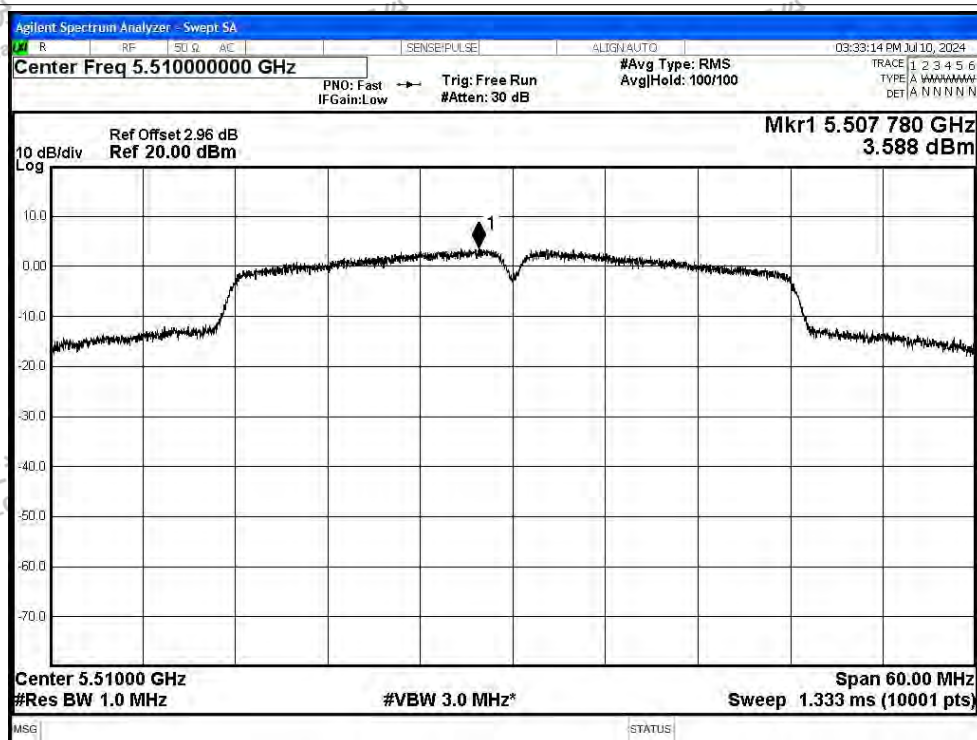
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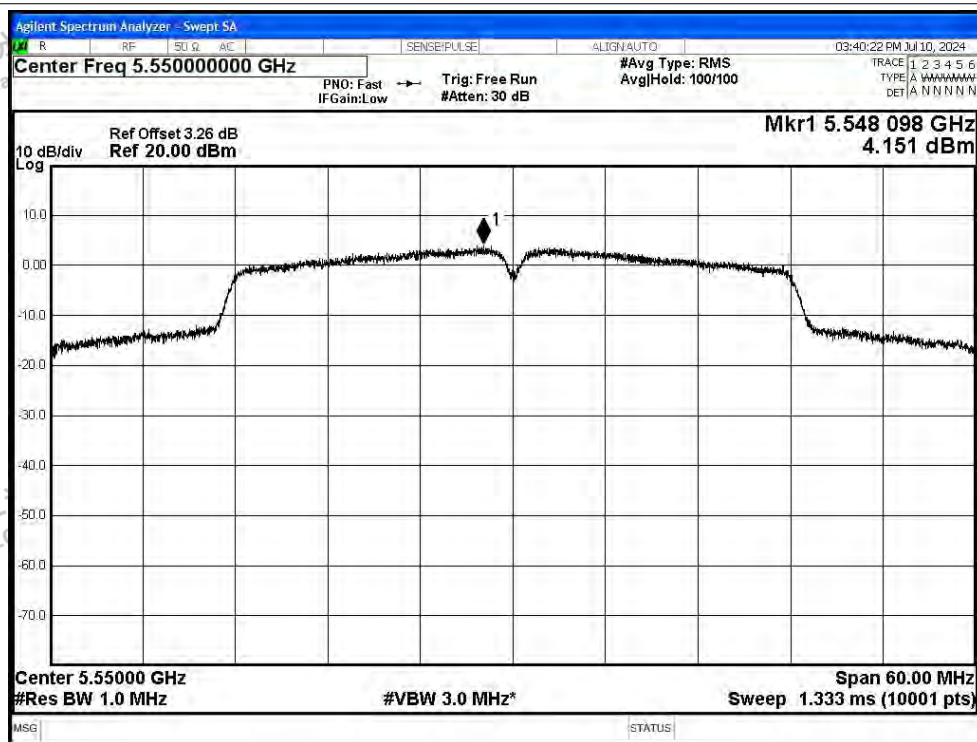
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PSD NVNT n40 5510MHz Ant1



PSD NVNT n40 5550MHz Ant1



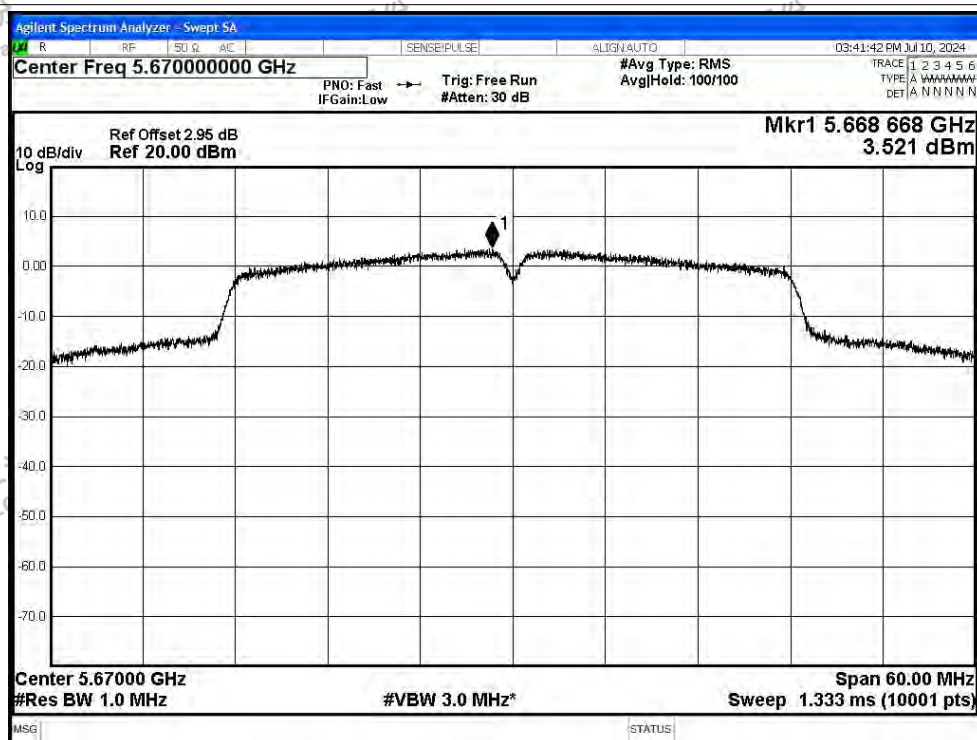
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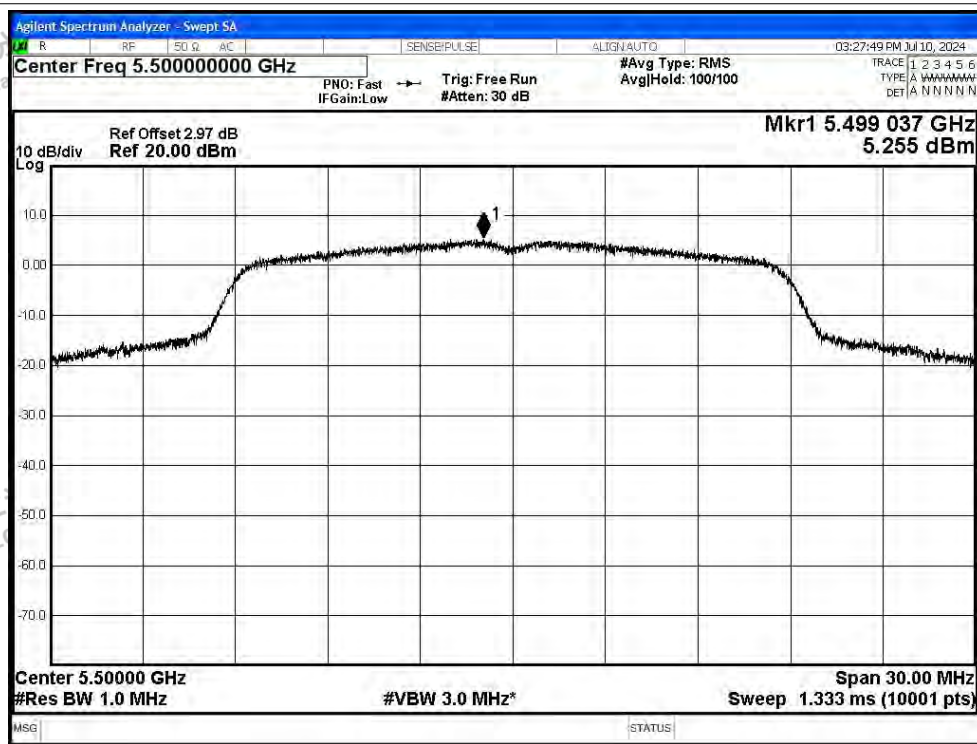
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PSD NVNT n40 5670MHz Ant1



PSD NVNT ac20 5500MHz Ant1



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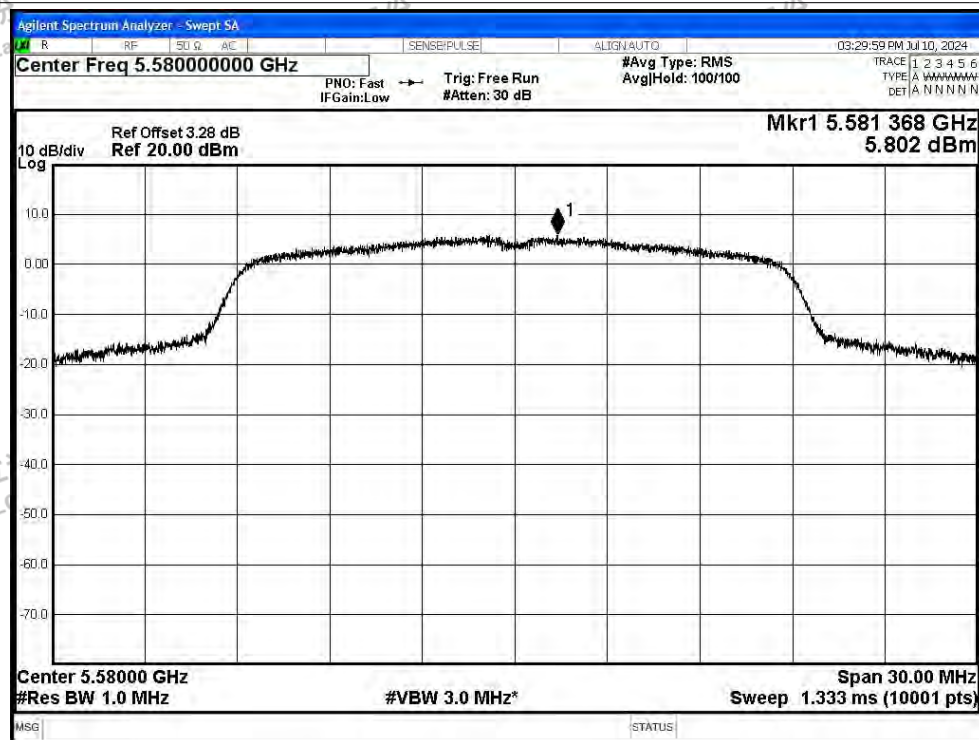
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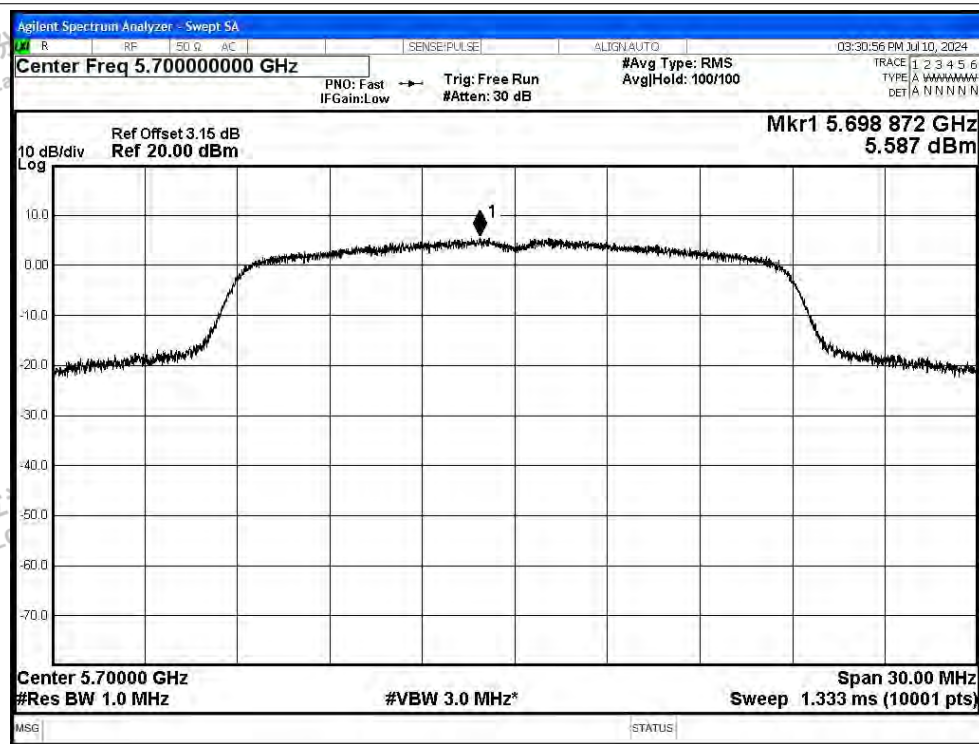
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PSD NVNT ac20 5580MHz Ant1



PSD NVNT ac20 5700MHz Ant1



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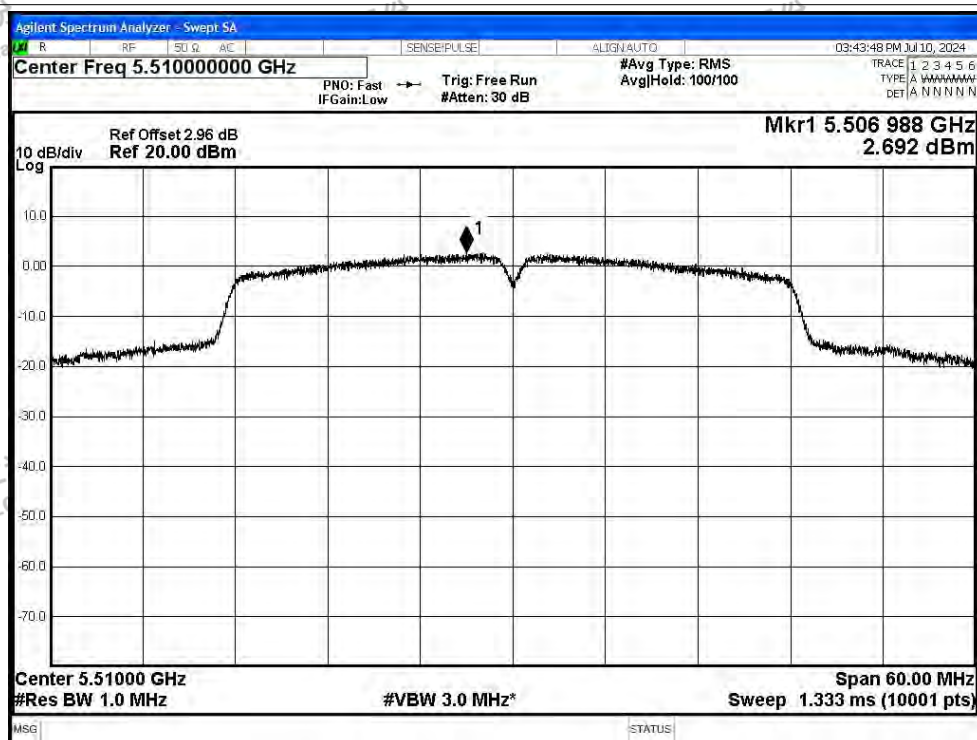
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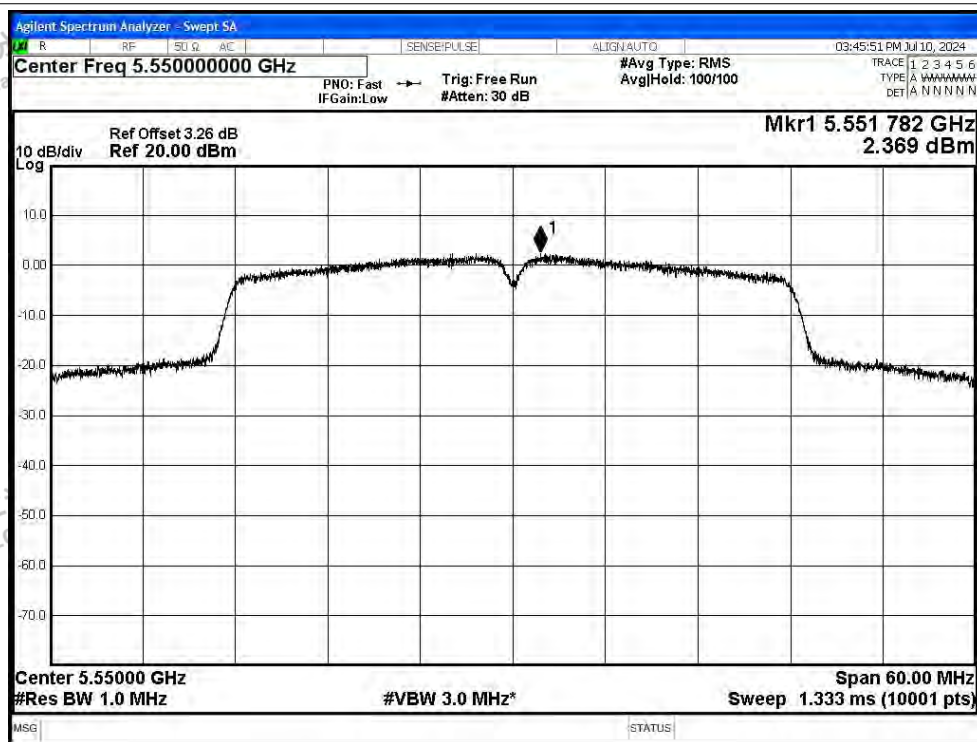
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PSD NVNT ac40 5510MHz Ant1



PSD NVNT ac40 5550MHz Ant1



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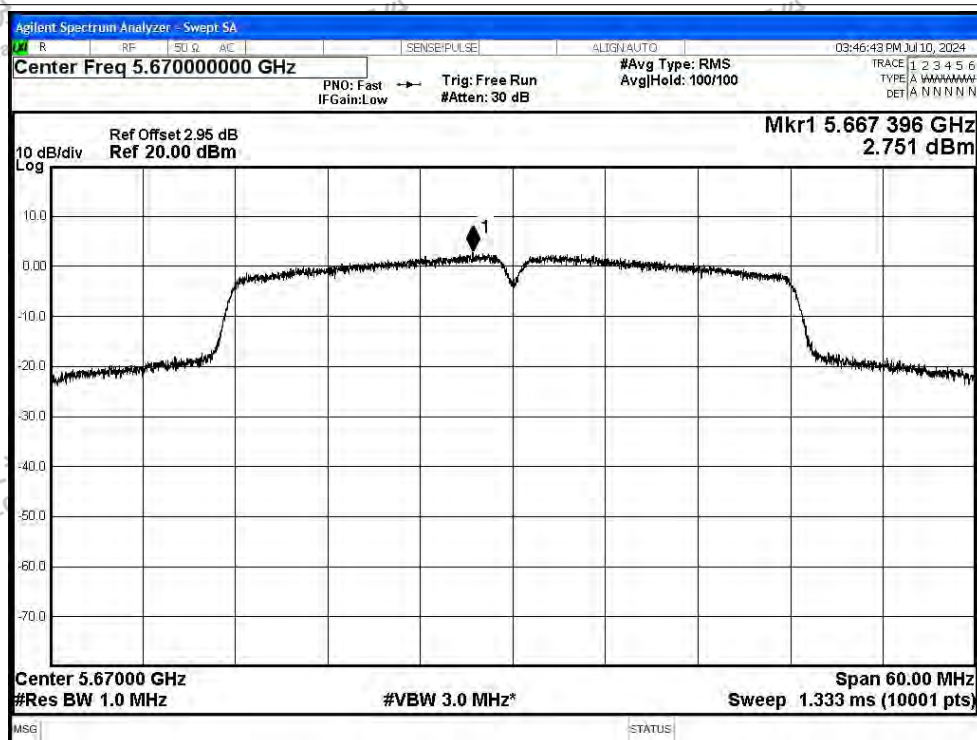
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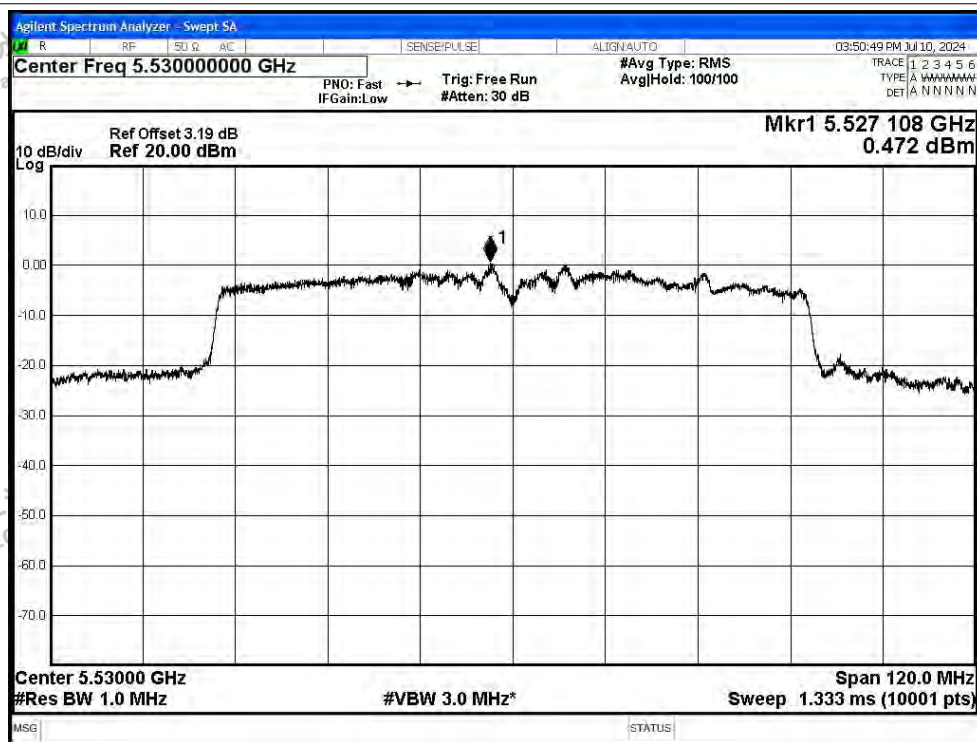
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PSD NVNT ac40 5670MHz Ant1



PSD NVNT ac80 5530MHz Ant1



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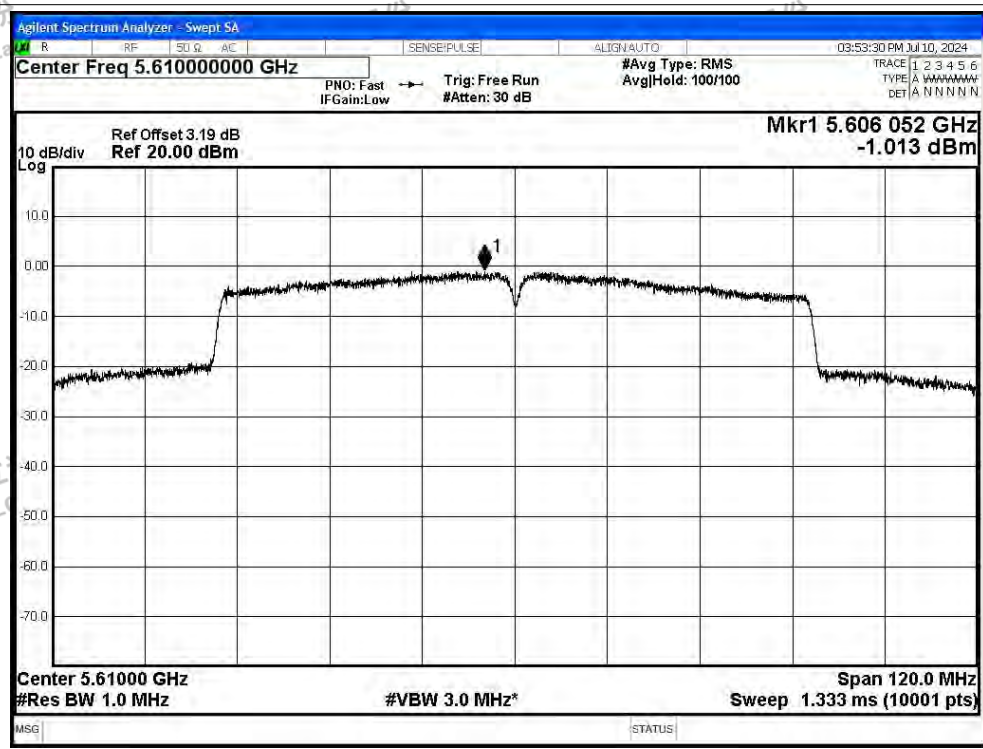
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PSD NVNT ac80 5610MHz Ant1





D.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	-48.83	2	-	48.4	Peak	68.2	Pass
NVNT	a	5500	Ant1	5460	-56.07	2	0.13	41.29	Average	54	Pass
NVNT	a	5500	Ant1	5469.8	-46.42	2	-	50.81	Peak	68.2	Pass
NVNT	a	5500	Ant1	5469.4	-55.02	2	0.13	42.34	Average	54	Pass
NVNT	a	5500	Ant1	5470	-46.79	2	-	50.44	Peak	68.2	Pass
NVNT	a	5500	Ant1	5470	-55.56	2	0.13	41.8	Average	54	Pass
NVNT	a	5700	Ant1	5725	-48.76	2	-	48.47	Peak	68.2	Pass
NVNT	a	5700	Ant1	5725	-56.34	2	0.13	41.02	Average	54	Pass
NVNT	a	5700	Ant1	5726.6	-46.12	2	-	51.11	Peak	68.2	Pass
NVNT	a	5700	Ant1	5725.8	-55.81	2	0.13	41.55	Average	54	Pass
NVNT	a	5700	Ant1	5735	-46.16	2	-	51.07	Peak	68.2	Pass
NVNT	a	5700	Ant1	5735	-57	2	0.13	40.36	Average	54	Pass
NVNT	n20	5500	Ant1	5460	-50.38	2	-	46.85	Peak	68.2	Pass
NVNT	n20	5500	Ant1	5460	-56.8	2	0.14	40.57	Average	54	Pass
NVNT	n20	5500	Ant1	5469.2	-45.84	2	-	51.39	Peak	68.2	Pass
NVNT	n20	5500	Ant1	5469.4	-55.96	2	0.14	41.41	Average	54	Pass
NVNT	n20	5500	Ant1	5470	-49.47	2	-	47.76	Peak	68.2	Pass
NVNT	n20	5500	Ant1	5470	-56.65	2	0.14	40.72	Average	54	Pass
NVNT	n20	5700	Ant1	5725	-48.08	2	-	49.15	Peak	68.2	Pass
NVNT	n20	5700	Ant1	5725	-55.91	2	0.14	41.46	Average	54	Pass
NVNT	n20	5700	Ant1	5727	-46.14	2	-	51.09	Peak	68.2	Pass
NVNT	n20	5700	Ant1	5725.6	-55.65	2	0.14	41.72	Average	54	Pass
NVNT	n20	5700	Ant1	5735	-48.35	2	-	48.88	Peak	68.2	Pass
NVNT	n20	5700	Ant1	5735	-57.04	2	0.14	40.33	Average	54	Pass
NVNT	n40	5510	Ant1	5460	-49.5	2	-	47.73	Peak	68.2	Pass
NVNT	n40	5510	Ant1	5460	-57.02	2	0.15	40.36	Average	54	Pass
NVNT	n40	5510	Ant1	5461.8	-45.38	2	-	51.85	Peak	68.2	Pass
NVNT	n40	5510	Ant1	5470	-55.16	2	0.15	42.22	Average	54	Pass
NVNT	n40	5510	Ant1	5470	-47.69	2	-	49.54	Peak	68.2	Pass
NVNT	n40	5670	Ant1	5725	-42.53	2	-	54.7	Peak	68.2	Pass
NVNT	n40	5670	Ant1	5725	-54.24	2	0.15	43.14	Average	54	Pass
NVNT	n40	5670	Ant1	5725.4	-40.45	2	-	56.78	Peak	68.2	Pass
NVNT	n40	5670	Ant1	5725.8	-53.62	2	0.15	43.76	Average	54	Pass
NVNT	n40	5670	Ant1	5735	-43.5	2	-	53.73	Peak	68.2	Pass
NVNT	n40	5670	Ant1	5735	-55.34	2	0.15	42.04	Average	54	Pass
NVNT	ac20	5500	Ant1	5460	-49.6	2	-	47.63	Peak	68.2	Pass



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NVNT	ac20	5500	Ant1	5460	-57.25	2	0.14	40.12	Average	54	Pass
NVNT	ac20	5500	Ant1	5467.6	-47.03	2	-	50.2	Peak	68.2	Pass
NVNT	ac20	5500	Ant1	5468.6	-56.42	2	0.14	40.95	Average	54	Pass
NVNT	ac20	5500	Ant1	5470	-48.92	2	-	48.31	Peak	68.2	Pass
NVNT	ac20	5500	Ant1	5470	-57.31	2	0.14	40.06	Average	54	Pass
NVNT	ac20	5700	Ant1	5725	-48.24	2	-	48.99	Peak	68.2	Pass
NVNT	ac20	5700	Ant1	5725	-56.5	2	0.14	40.87	Average	54	Pass
NVNT	ac20	5700	Ant1	5734.8	-46.68	2	-	50.55	Peak	68.2	Pass
NVNT	ac20	5700	Ant1	5729.4	-55.91	2	0.14	41.46	Average	54	Pass
NVNT	ac20	5700	Ant1	5735	-48.77	2	-	48.46	Peak	68.2	Pass
NVNT	ac20	5700	Ant1	5735	-57.09	2	0.14	40.28	Average	54	Pass
NVNT	ac40	5510	Ant1	5460	-48.92	2	-	48.31	Peak	68.2	Pass
NVNT	ac40	5510	Ant1	5460	-56.93	2	0.15	40.45	Average	54	Pass
NVNT	ac40	5510	Ant1	5469.6	-44.74	2	-	52.49	Peak	68.2	Pass
NVNT	ac40	5510	Ant1	5469.4	-55.41	2	0.15	41.97	Average	54	Pass
NVNT	ac40	5510	Ant1	5470	-46.96	2	-	50.27	Peak	68.2	Pass
NVNT	ac40	5510	Ant1	5470	-55.56	2	0.15	41.82	Average	54	Pass
NVNT	ac40	5670	Ant1	5725	-45.16	2	-	52.07	Peak	68.2	Pass
NVNT	ac40	5670	Ant1	5725	-55.24	2	0.15	42.14	Average	54	Pass
NVNT	ac40	5670	Ant1	5727.8	-42.48	2	-	54.75	Peak	68.2	Pass
NVNT	ac40	5670	Ant1	5725.8	-53.91	2	0.15	43.47	Average	54	Pass
NVNT	ac40	5670	Ant1	5735	-47.85	2	-	49.38	Peak	68.2	Pass
NVNT	ac40	5670	Ant1	5735	-55.45	2	0.15	41.93	Average	54	Pass
NVNT	ac80	5530	Ant1	5460	-44.73	2	-	52.5	Peak	68.2	Pass
NVNT	ac80	5530	Ant1	5460	-55.06	2	0.31	42.48	Average	54	Pass
NVNT	ac80	5530	Ant1	5469.4	-42.58	2	-	54.65	Peak	68.2	Pass
NVNT	ac80	5530	Ant1	5469.6	-53.61	2	0.31	43.93	Average	54	Pass
NVNT	ac80	5530	Ant1	5470	-44.12	2	-	53.11	Peak	68.2	Pass
NVNT	ac80	5530	Ant1	5470	-53.69	2	0.31	43.85	Average	54	Pass
NVNT	ac80	5610	Ant1	5725	-49.36	2	-	47.87	Peak	68.2	Pass
NVNT	ac80	5610	Ant1	5725	-58.41	2	0.31	39.13	Average	54	Pass
NVNT	ac80	5610	Ant1	5732.54	-48.57	2	-	48.66	Peak	68.2	Pass
NVNT	ac80	5610	Ant1	5729.875	-57.73	2	0.31	39.81	Average	54	Pass
NVNT	ac80	5610	Ant1	5735	-50.71	2	-	46.52	Peak	68.2	Pass
NVNT	ac80	5610	Ant1	5735	-58.02	2	0.31	39.52	Average	54	Pass



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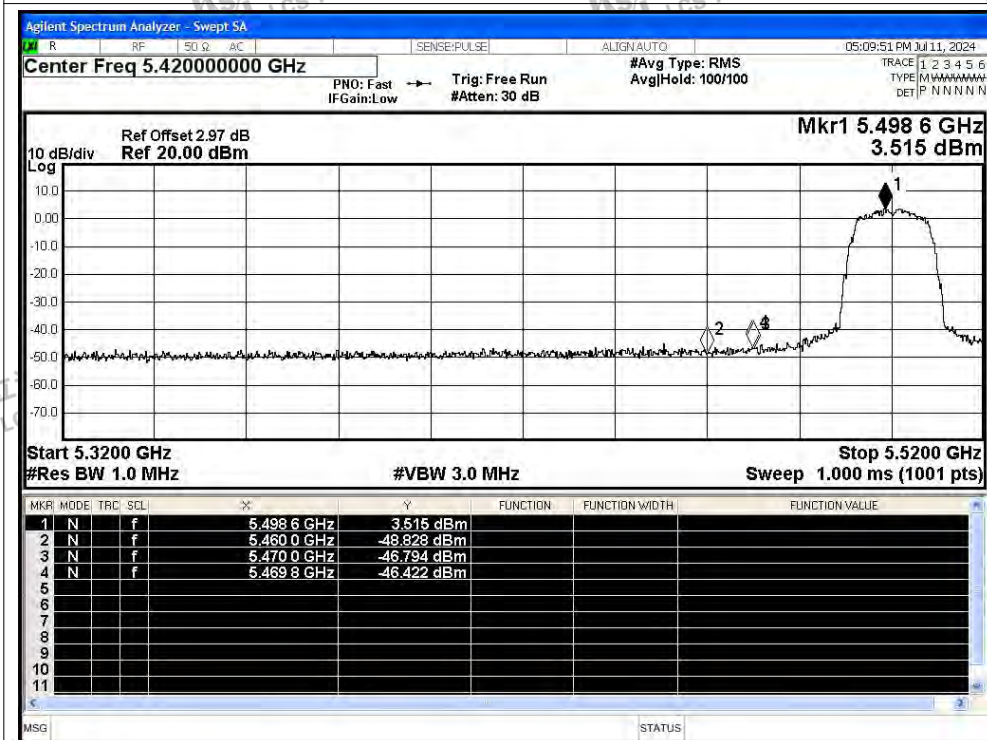
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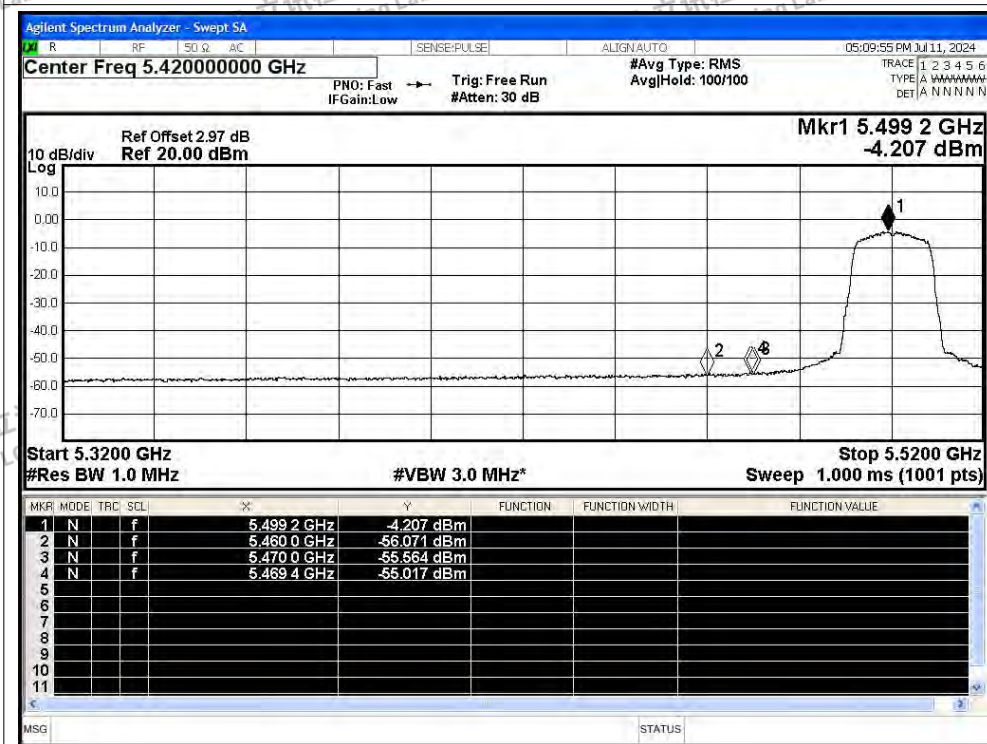


Test Graphs

Restrict Band NVNT a 5500MHz Ant1 Peak



Restrict Band NVNT a 5500MHz Ant1 Average



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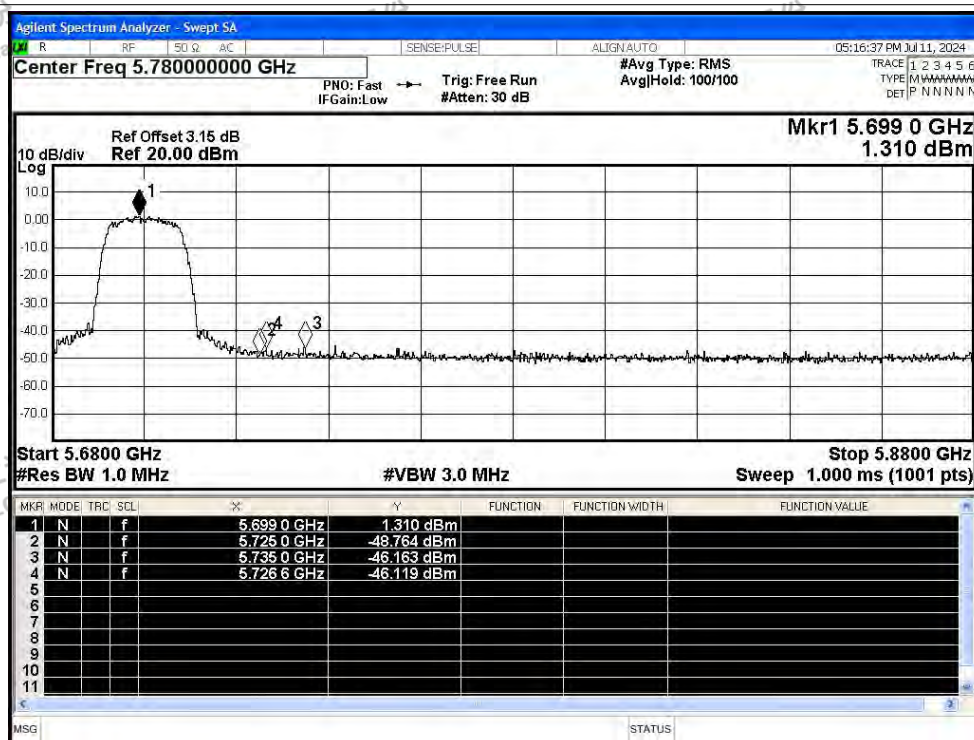
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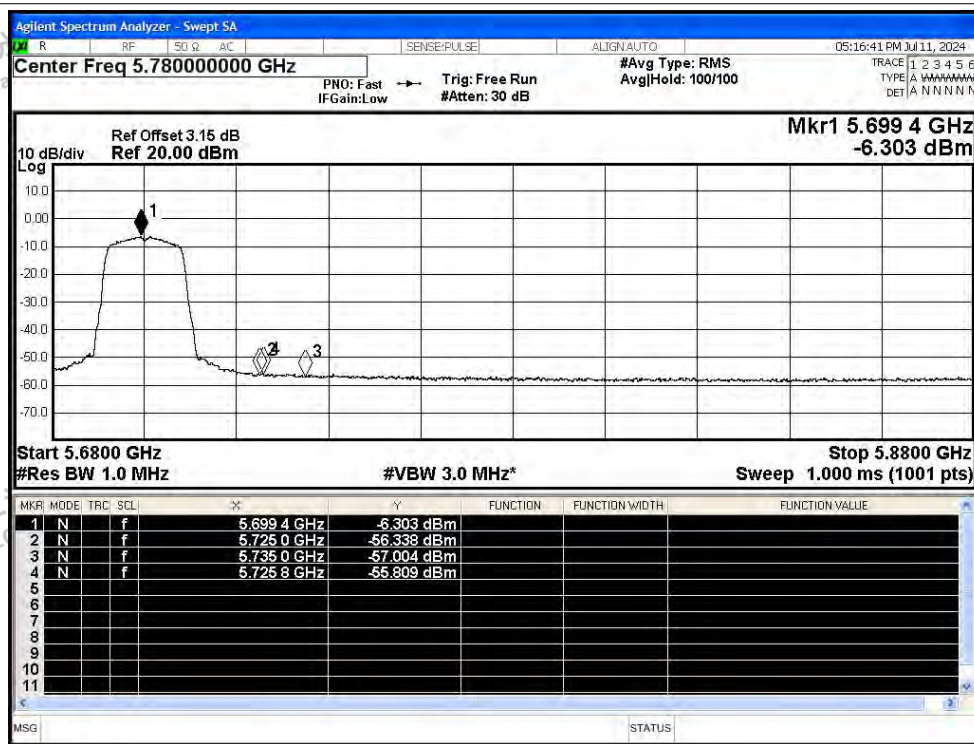
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Restrict Band NVNT a 5700MHz Ant1 Peak



Restrict Band NVNT a 5700MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

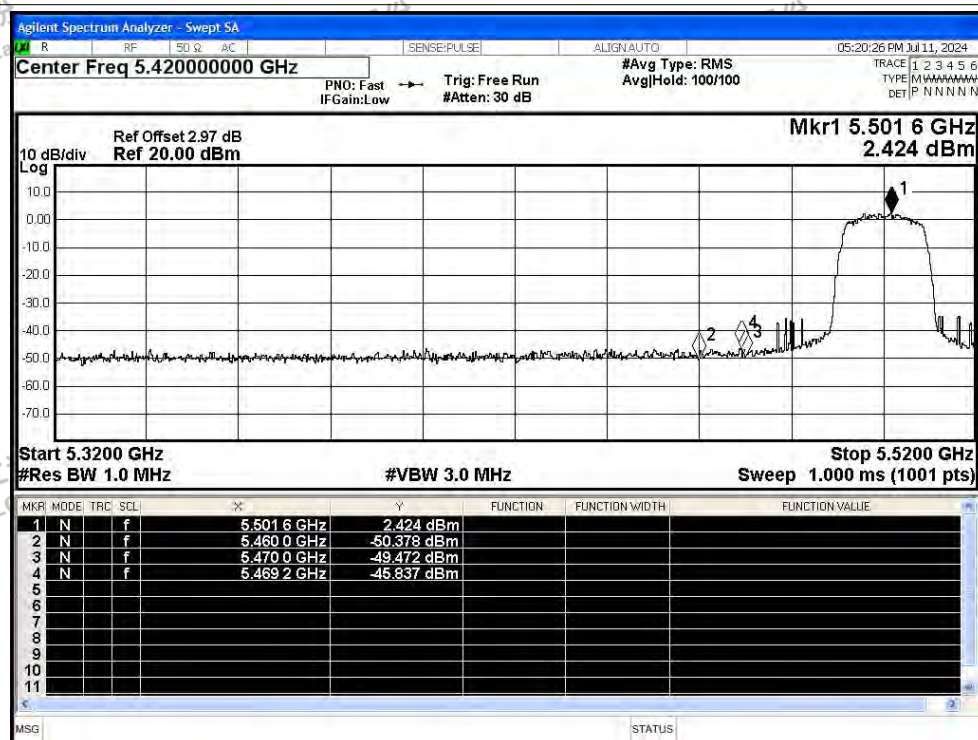
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

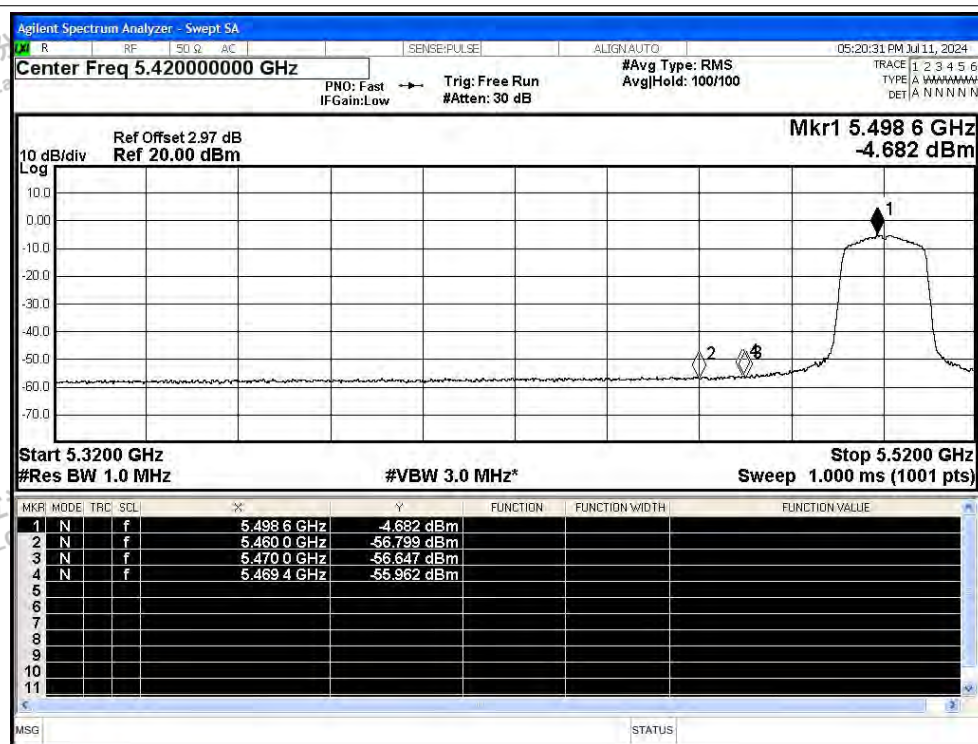
Scan code to check authenticity



Restrict Band NVNT n20 5500MHz Ant1 Peak



Restrict Band NVNT n20 5500MHz Ant1 Average



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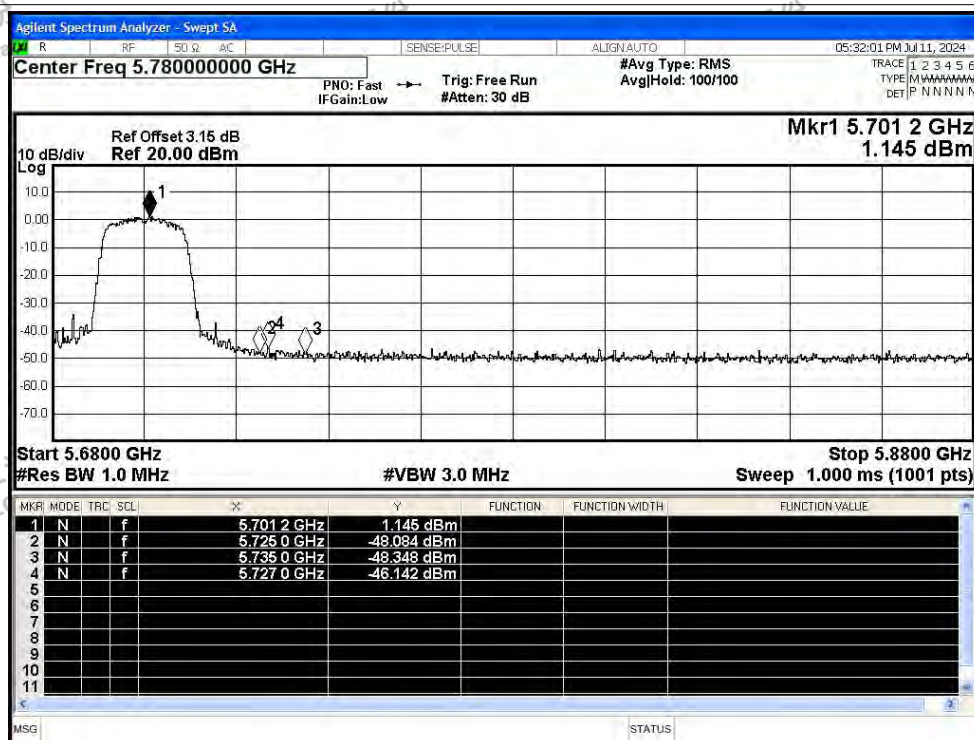
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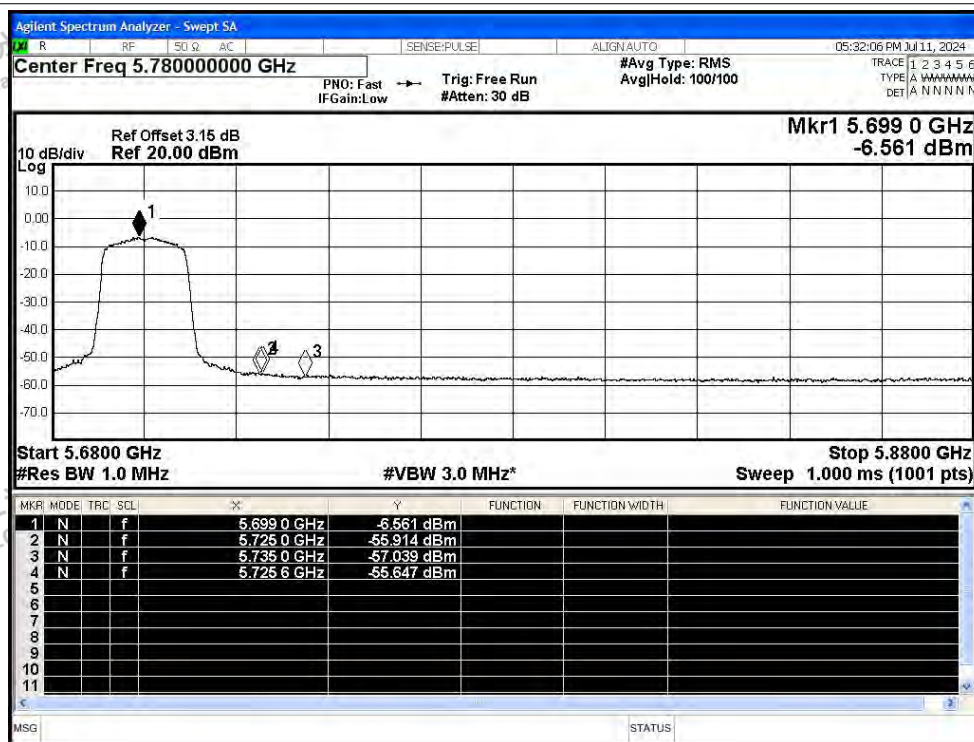
Scan code to check authenticity



Restrict Band NVNT n20 5700MHz Ant1 Peak



Restrict Band NVNT n20 5700MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

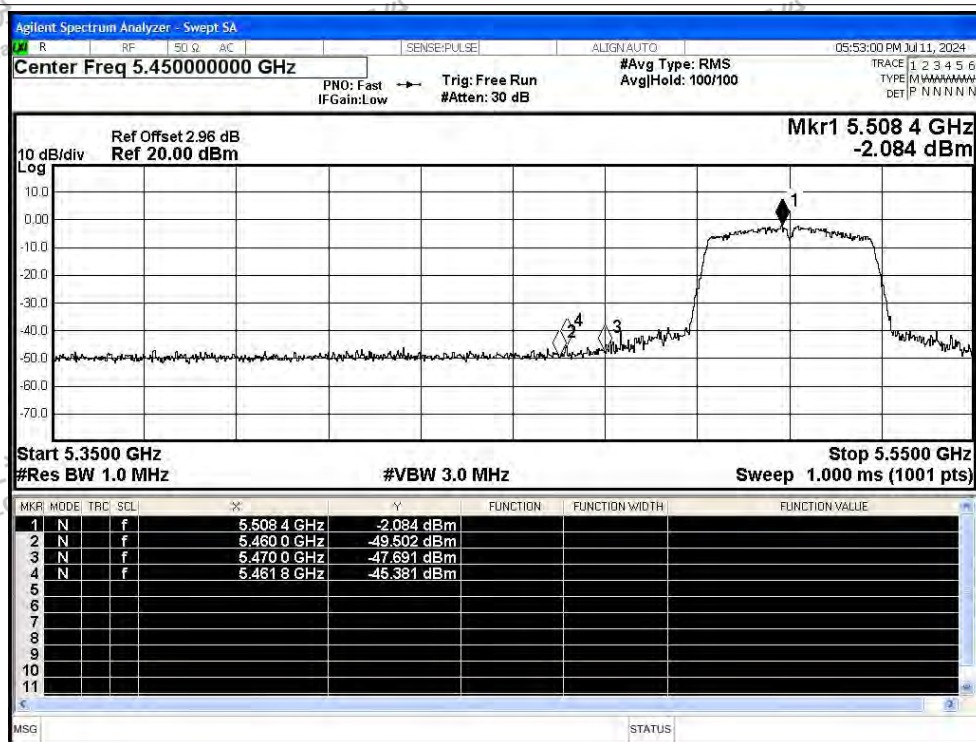
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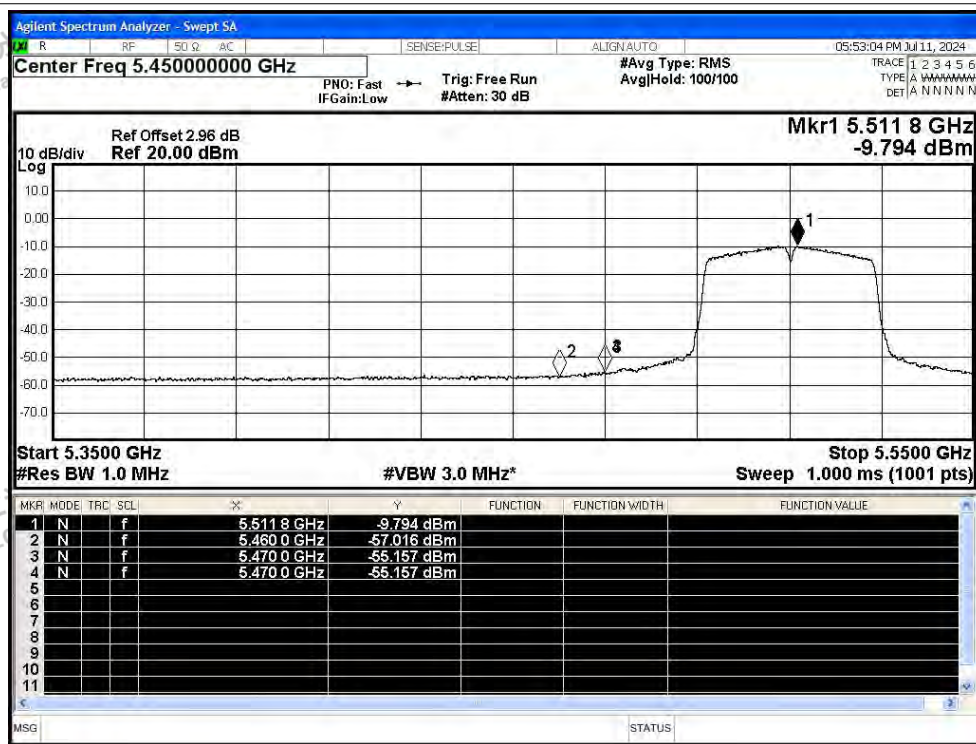
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Restrict Band NVNT n40 5510MHz Ant1 Peak



Restrict Band NVNT n40 5510MHz Ant1 Average



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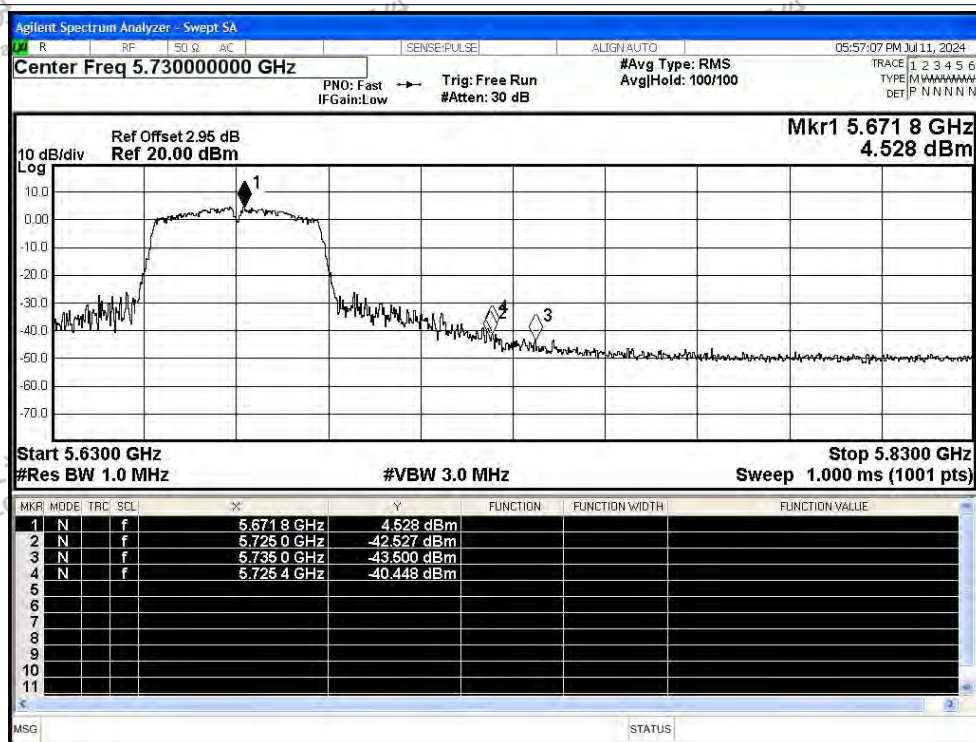
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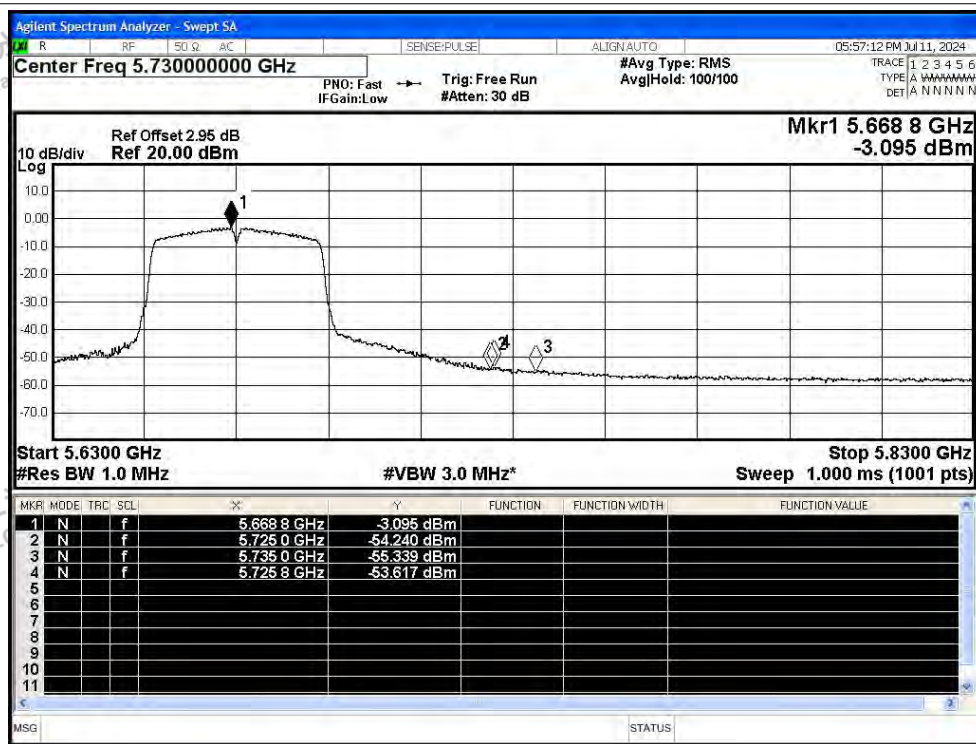
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Restrict Band NVNT n40 5670MHz Ant1 Peak



Restrict Band NVNT n40 5670MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

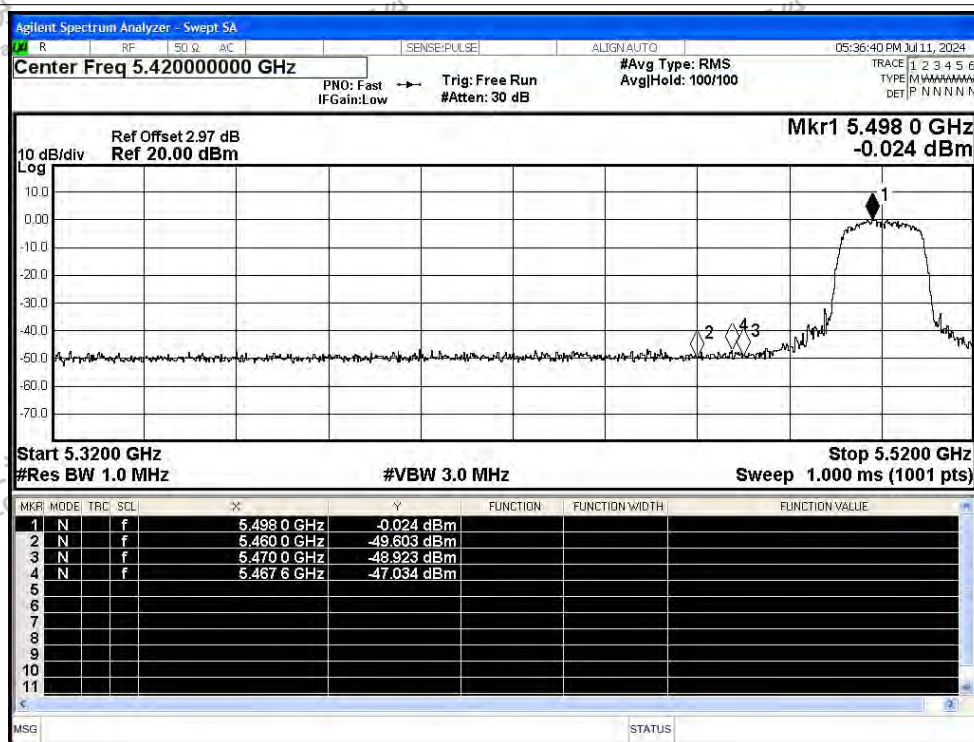
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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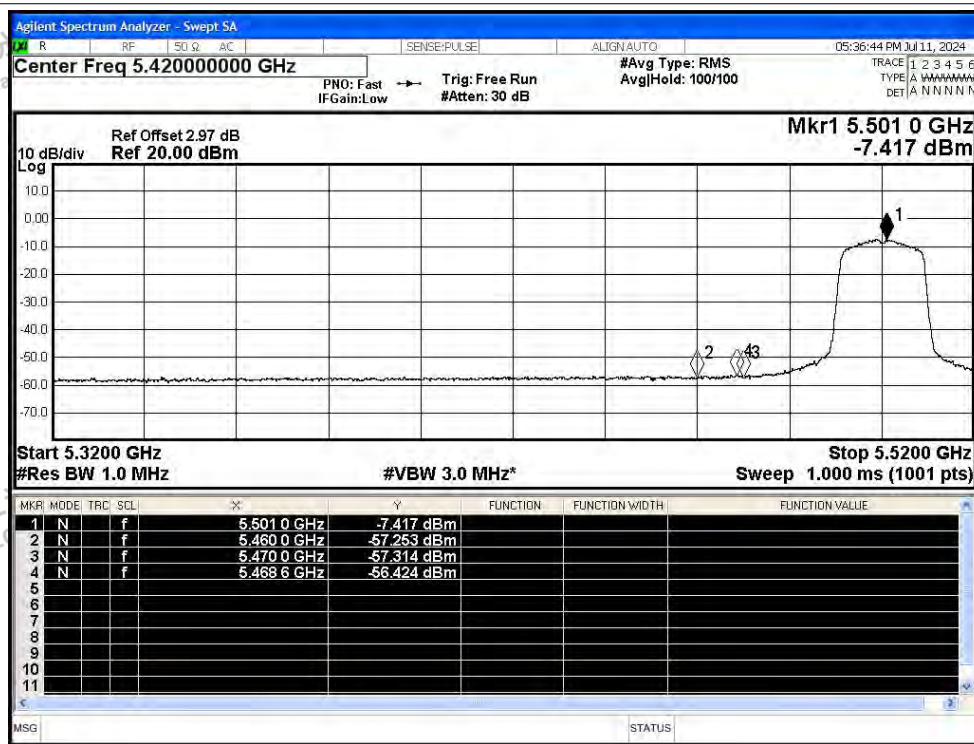
Scan code to check authenticity



Restrict Band NVNT ac20 5500MHz Ant1 Peak



Restrict Band NVNT ac20 5500MHz Ant1 Average



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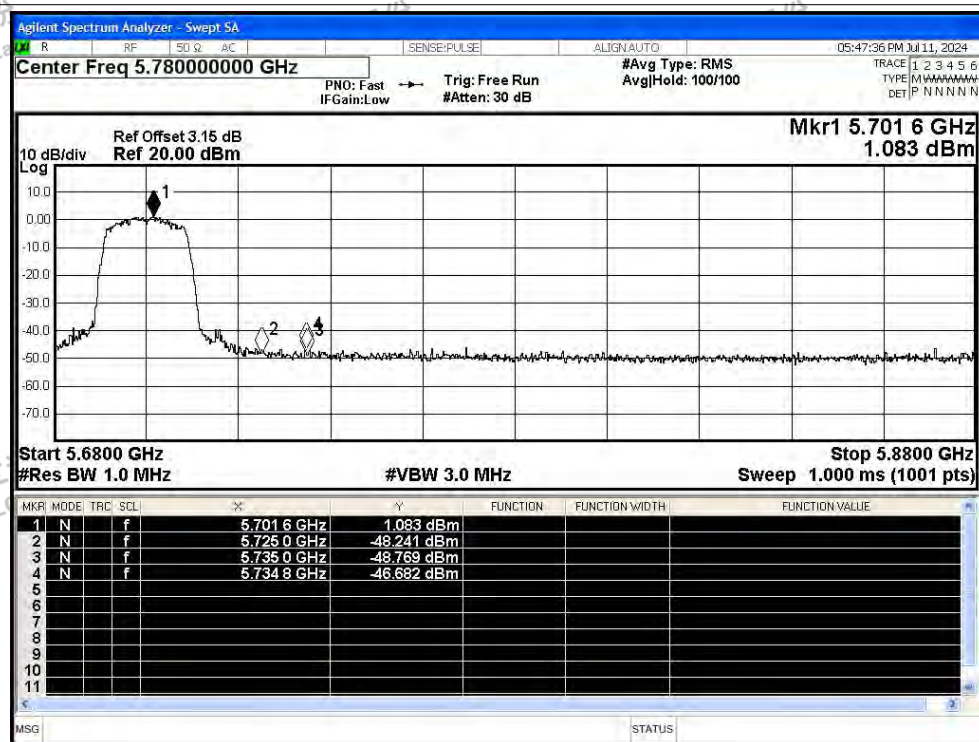
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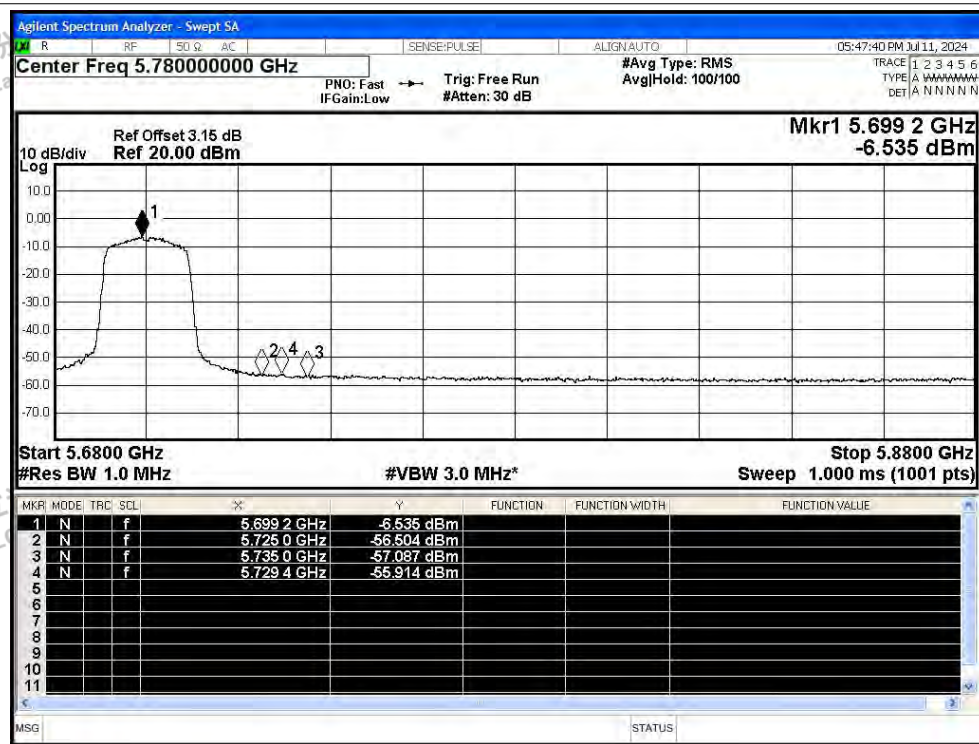
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Restrict Band NVNT ac20 5700MHz Ant1 Peak



Restrict Band NVNT ac20 5700MHz Ant1 Average



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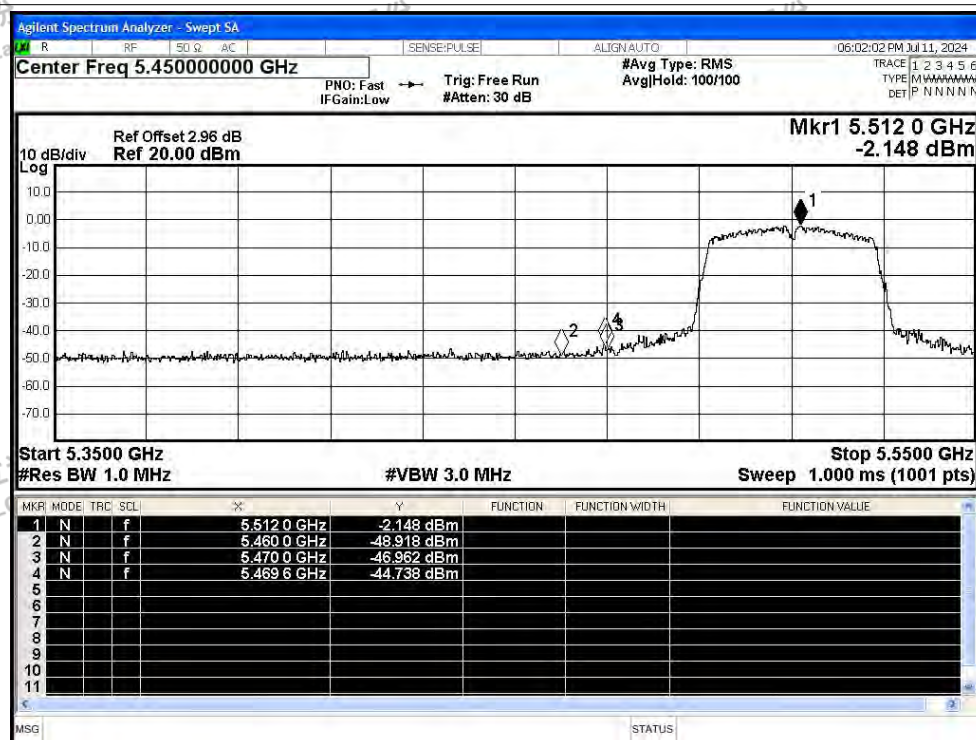
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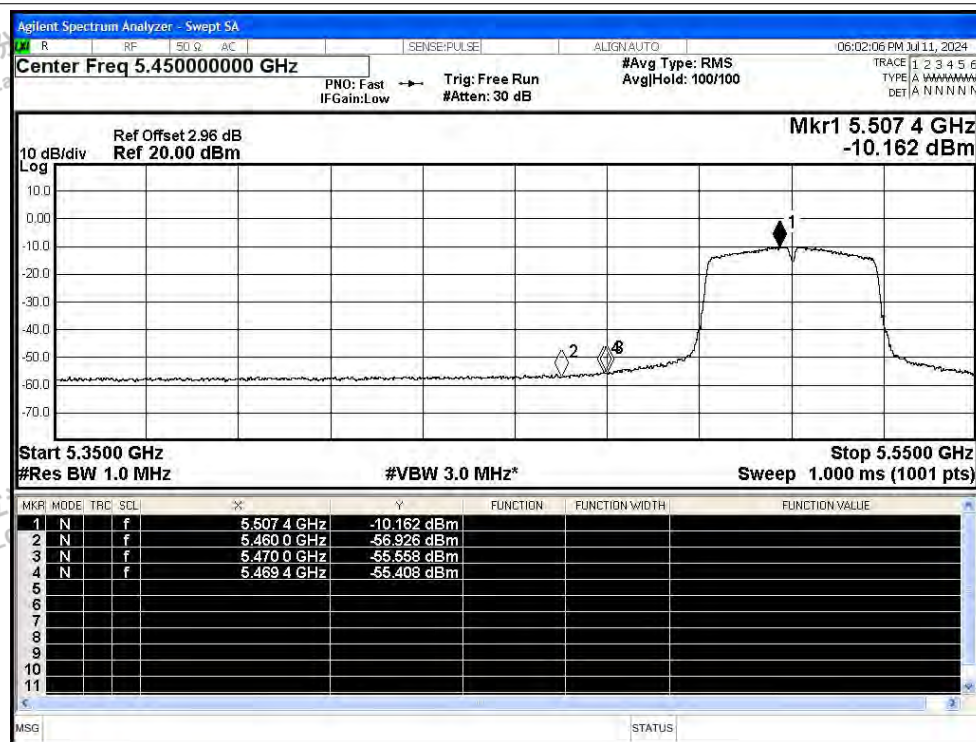
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Restrict Band NVNT ac40 5510MHz Ant1 Peak



Restrict Band NVNT ac40 5510MHz Ant1 Average



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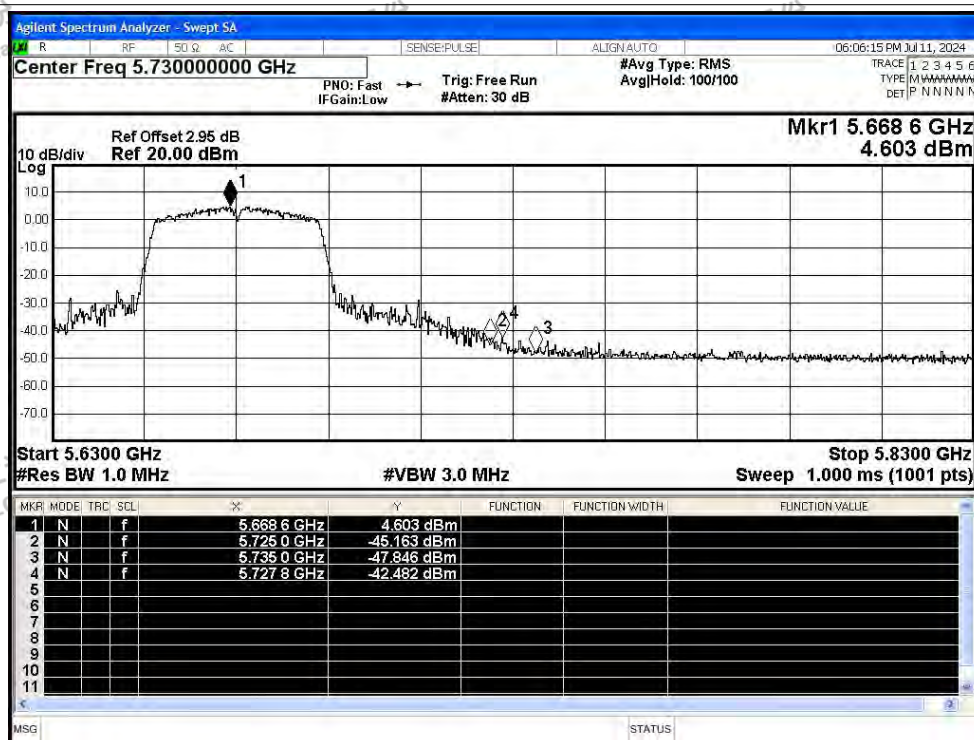
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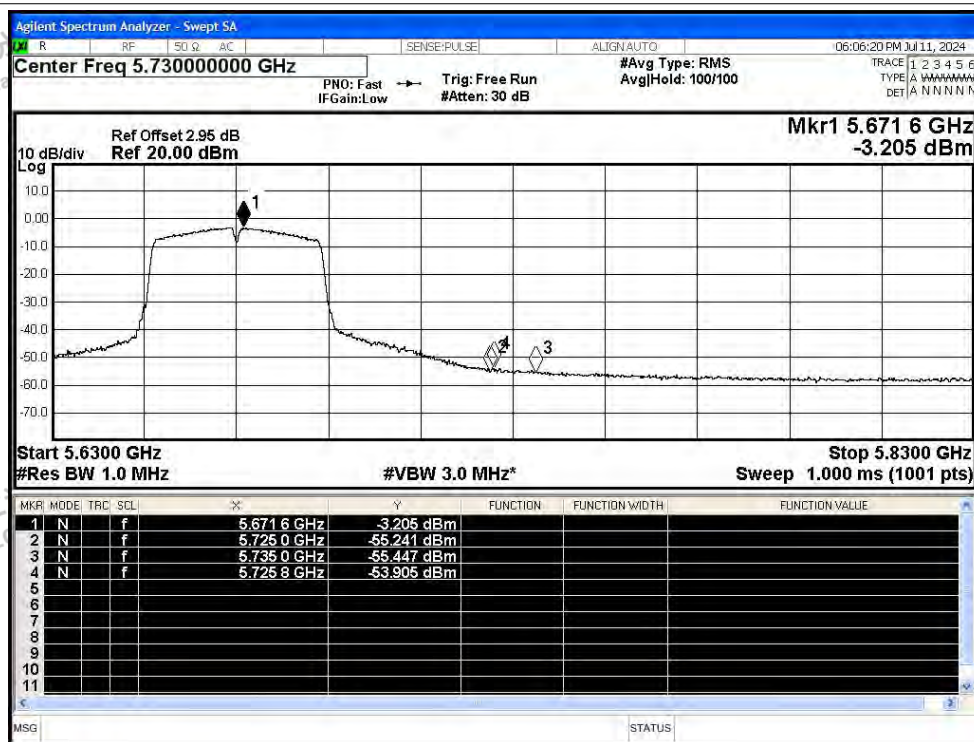
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Restrict Band NVNT ac40 5670MHz Ant1 Peak



Restrict Band NVNT ac40 5670MHz Ant1 Average



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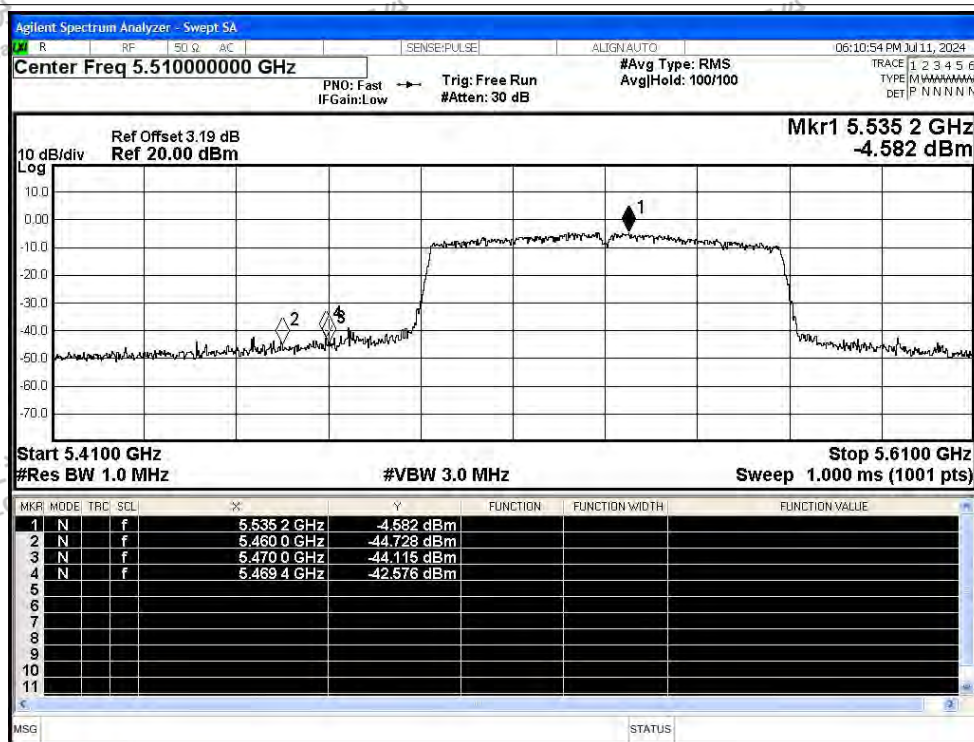
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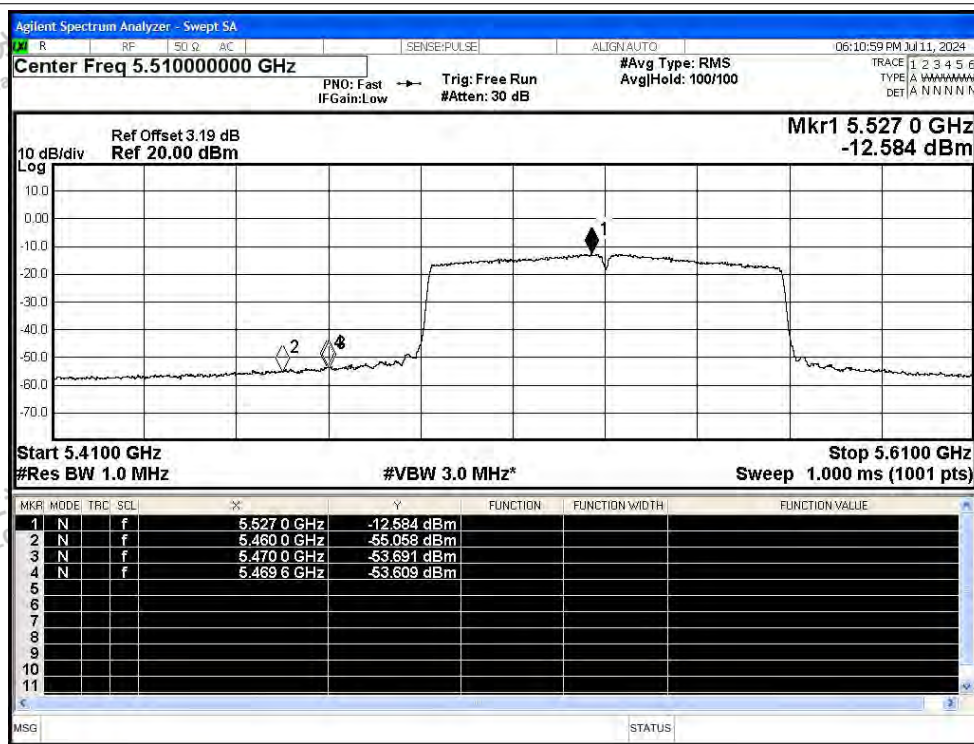
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Restrict Band NVNT ac80 5530MHz Ant1 Peak



Restrict Band NVNT ac80 5530MHz Ant1 Average



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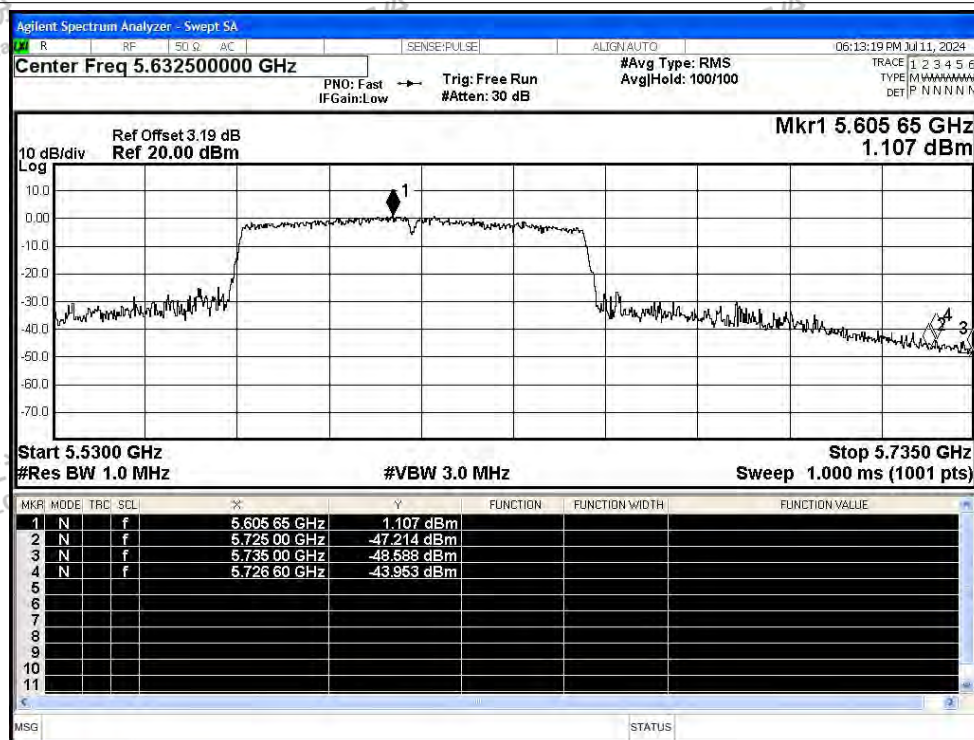
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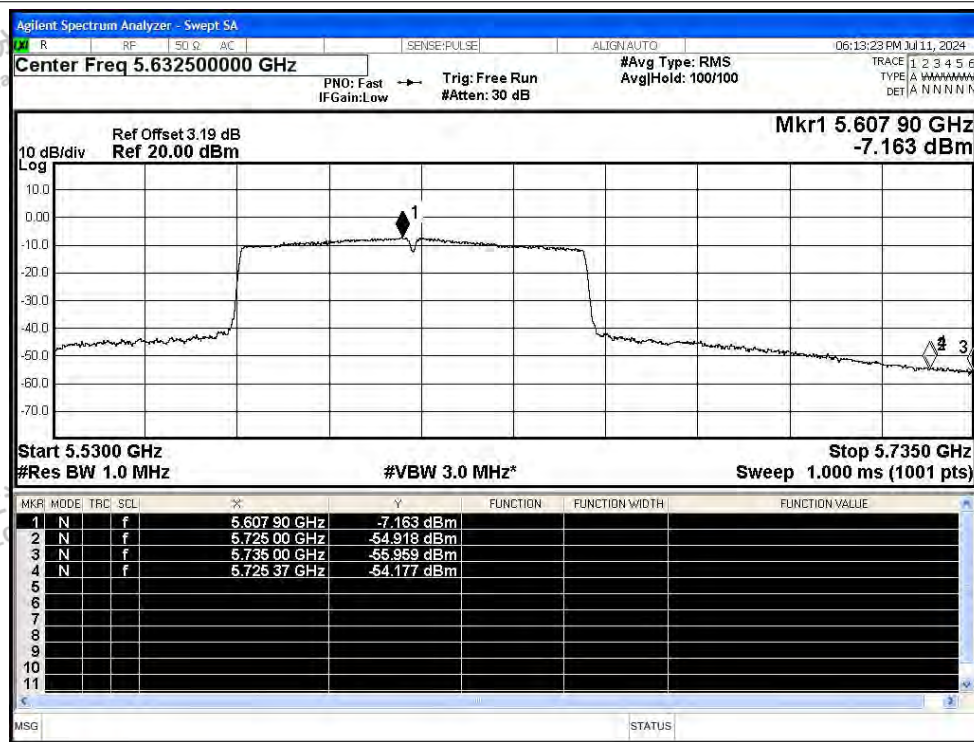
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Restrict Band NVNT ac80 5610MHz Ant1 Peak



Restrict Band NVNT ac80 5610MHz Ant1 Average



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D.5 Frequency Stability

Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	ac20	5500	Ant1	5499.98	-20000	-3.64	25	Pass
NVNT	ac20	5580	Ant1	5579.96	-40000	-7.17	25	Pass
NVNT	ac20	5700	Ant1	5699.96	-40000	-7.02	25	Pass
NVNT	ac40	5510	Ant1	5510	0	0	25	Pass
NVNT	ac40	5550	Ant1	5549.96	-40000	-7.21	25	Pass
NVNT	ac40	5670	Ant1	5669.96	-40000	-7.05	25	Pass
NVNT	ac80	5530	Ant1	5529.92	-80000	-14.47	25	Pass
NVNT	ac80	5610	Ant1	5610	0	0	25	Pass

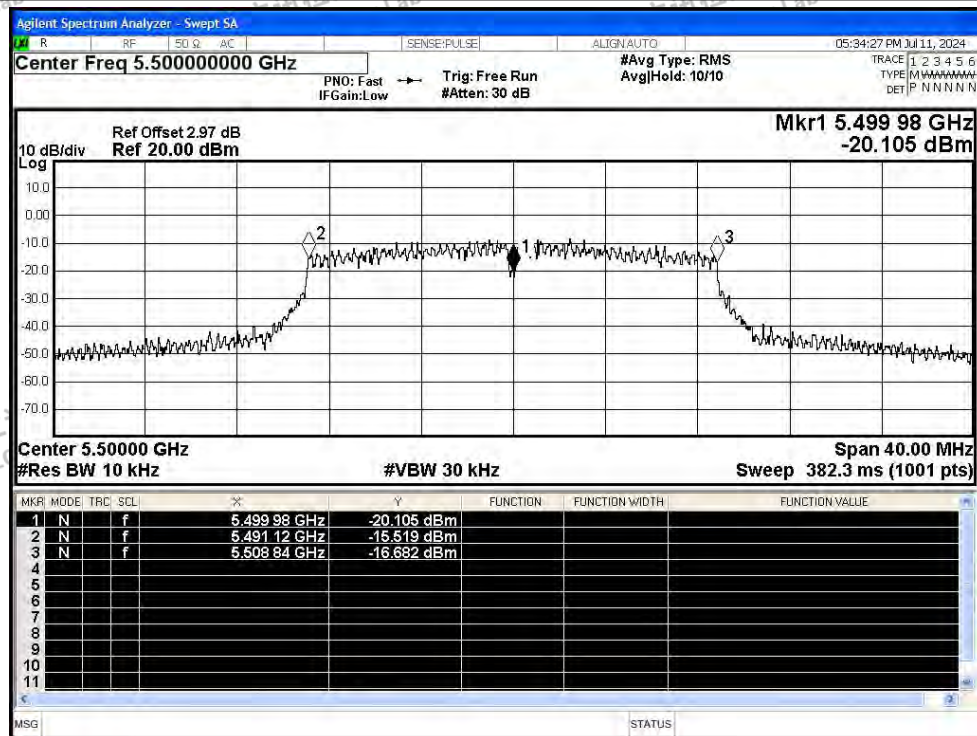


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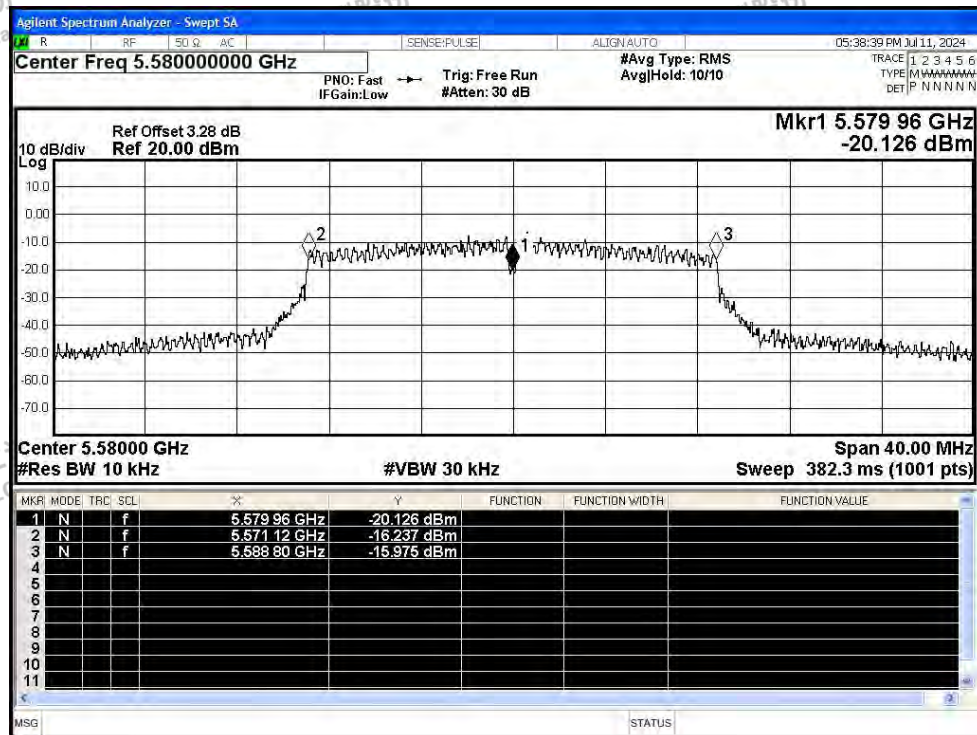


Test Graphs

Freq. Stability NVNT ac20 5500MHz Ant1



Freq. Stability NVNT ac20 5580MHz Ant1



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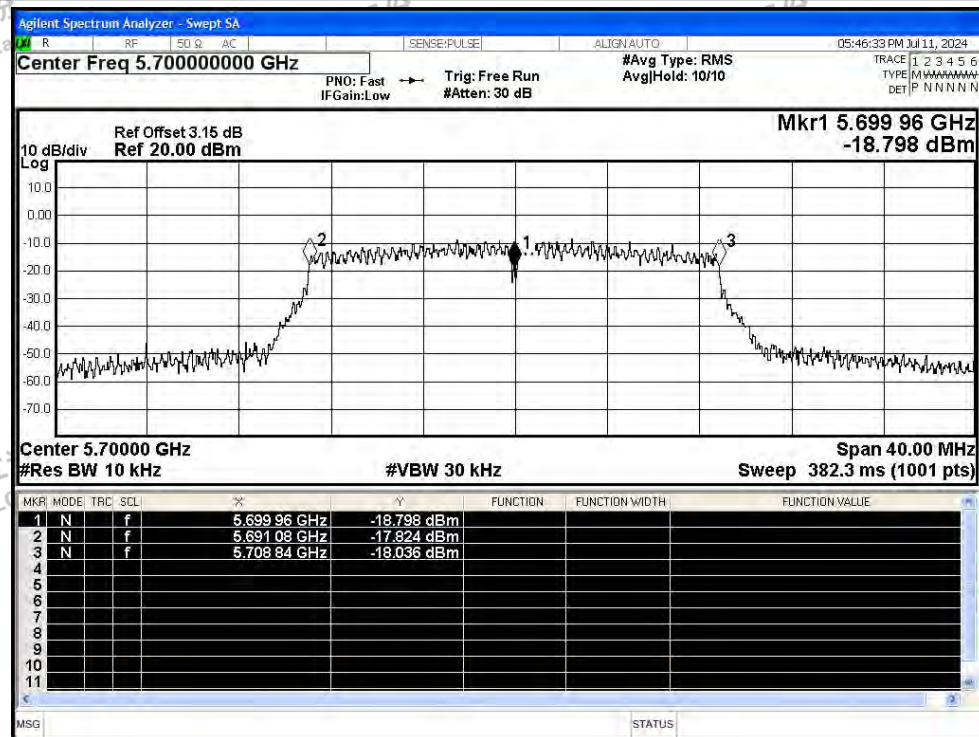
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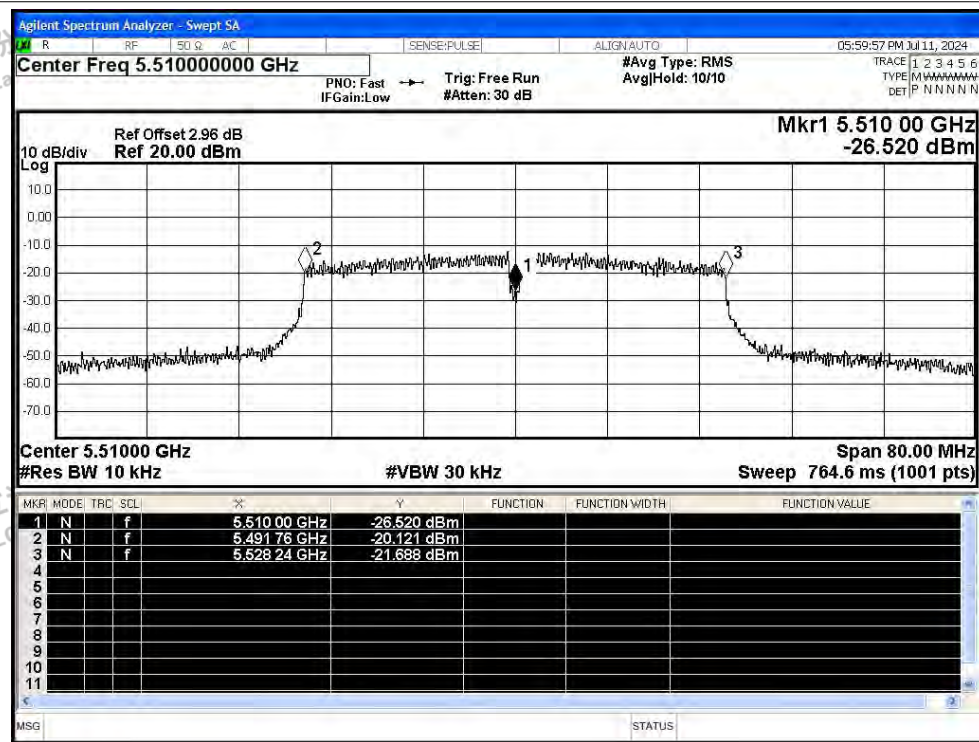
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Freq. Stability NVNT ac20 5700MHz Ant1



Freq. Stability NVNT ac40 5510MHz Ant1



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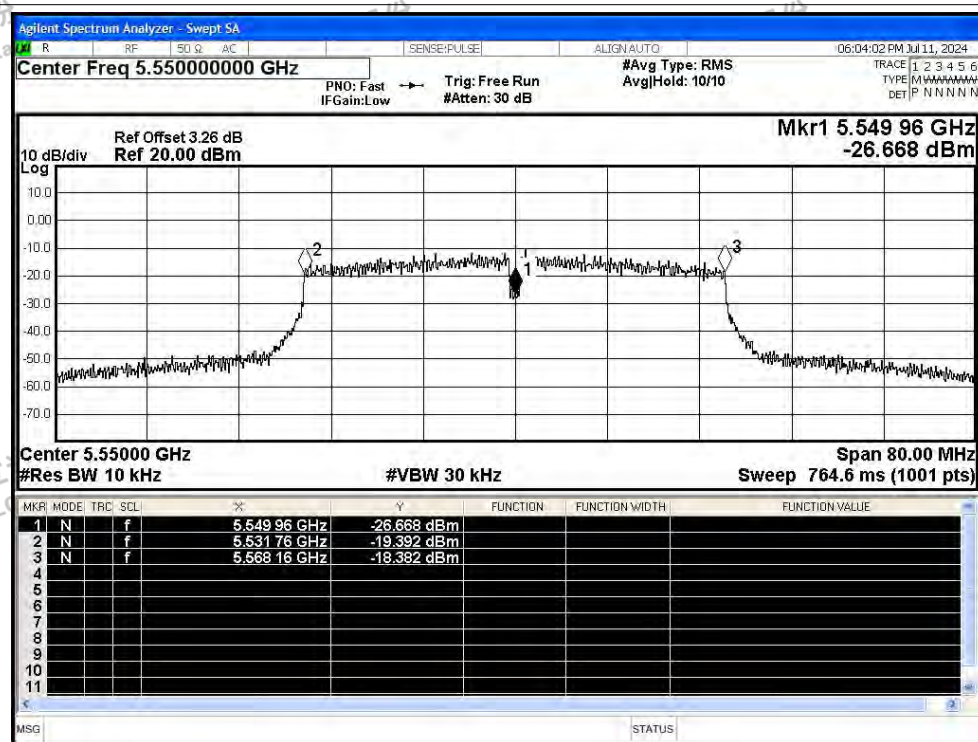
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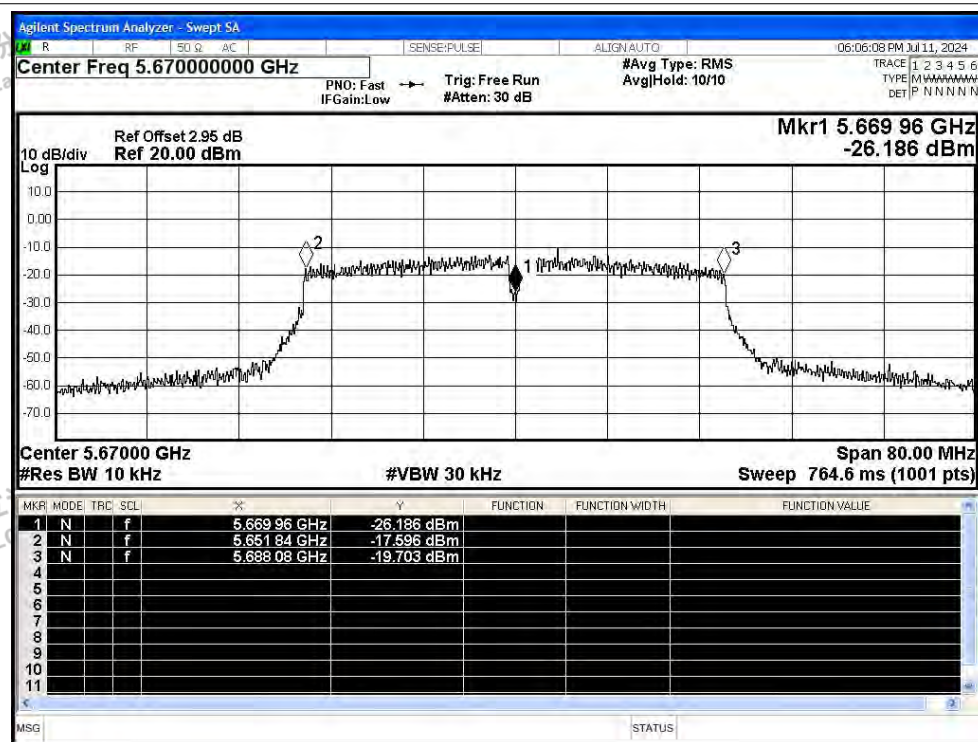
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Freq. Stability NVNT ac40 5550MHz Ant1



Freq. Stability NVNT ac40 5670MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

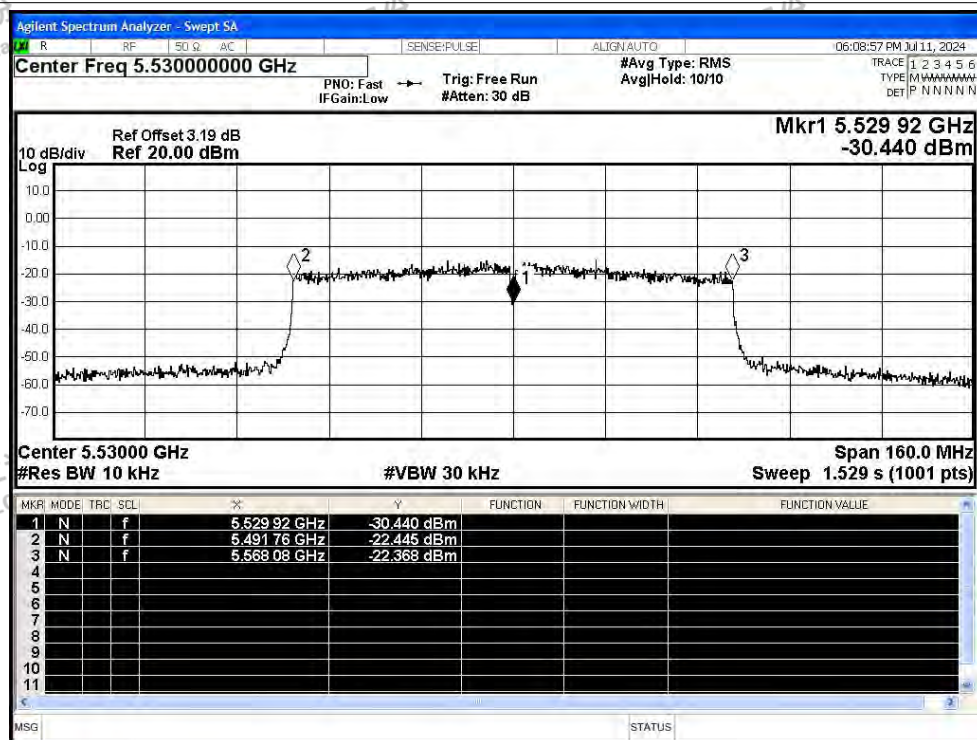
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

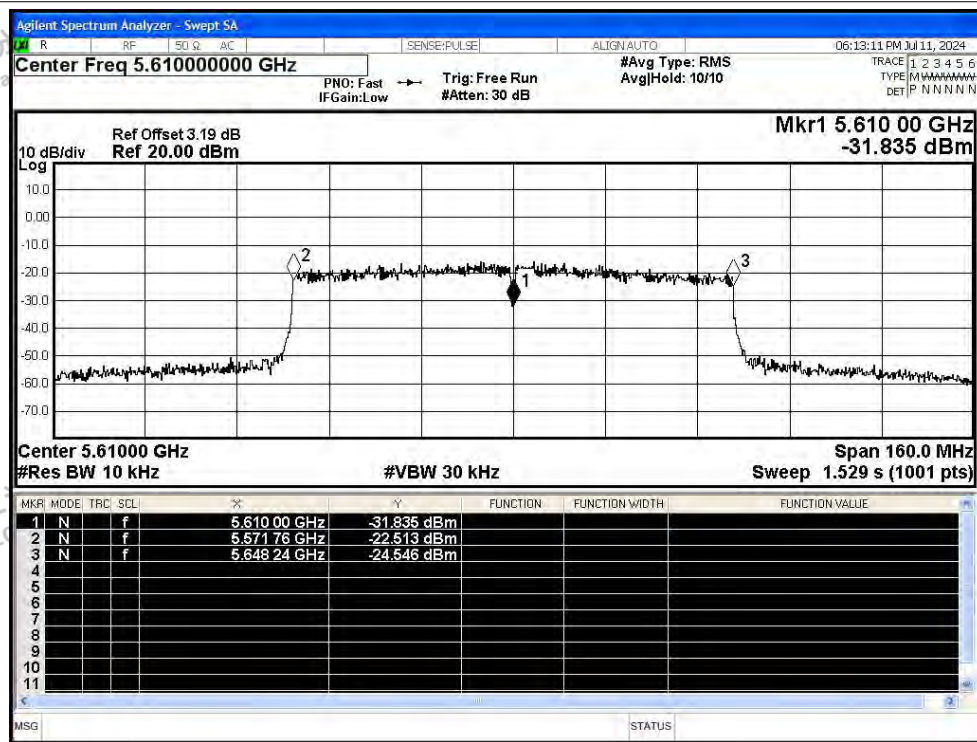
Scan code to check authenticity



Freq. Stability NVNT ac80 5530MHz Ant1



Freq. Stability NVNT ac80 5610MHz Ant1



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D.6 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5500	Ant1	97.01	0.13	0.72
NVNT	a	5580	Ant1	96.94	0.13	0.72
NVNT	a	5700	Ant1	96.94	0.13	0.72
NVNT	n20	5500	Ant1	96.73	0.14	0.77
NVNT	n20	5580	Ant1	96.73	0.14	0.77
NVNT	n20	5700	Ant1	96.73	0.14	0.77
NVNT	n40	5510	Ant1	96.61	0.15	0.82
NVNT	n40	5550	Ant1	96.53	0.15	0.82
NVNT	n40	5670	Ant1	96.61	0.15	0.82
NVNT	ac20	5500	Ant1	96.76	0.14	0.76
NVNT	ac20	5580	Ant1	96.83	0.14	0.76
NVNT	ac20	5700	Ant1	96.76	0.14	0.76
NVNT	ac40	5510	Ant1	96.55	0.15	0.81
NVNT	ac40	5550	Ant1	96.55	0.15	0.81
NVNT	ac40	5670	Ant1	96.55	0.15	0.81
NVNT	ac80	5530	Ant1	93.09	0.31	1.69
NVNT	ac80	5610	Ant1	93.08	0.31	1.69

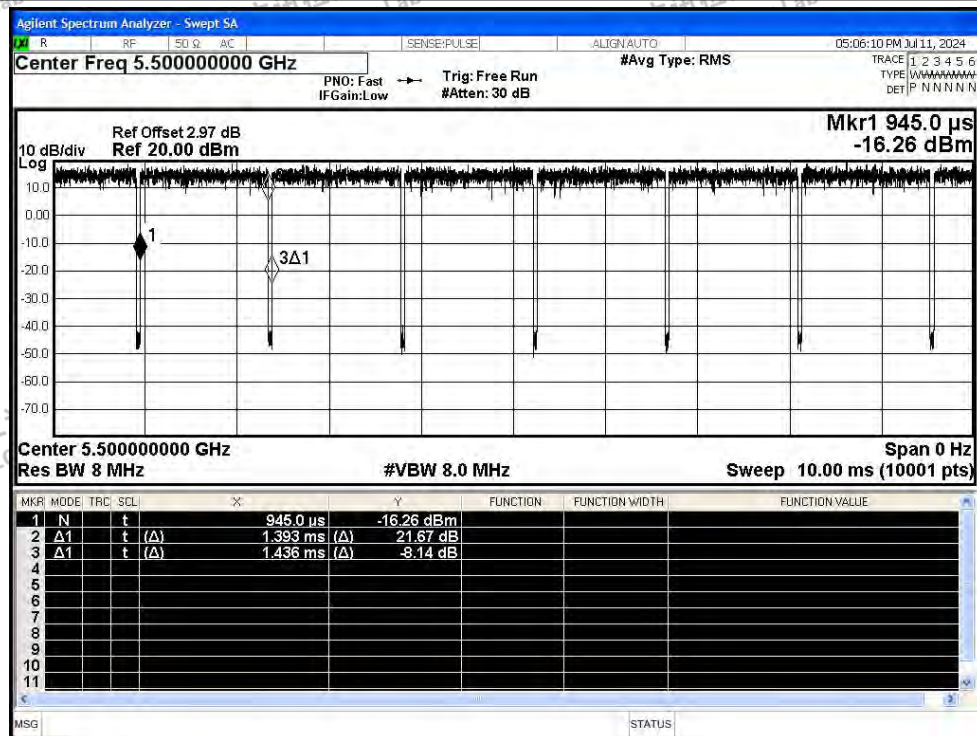


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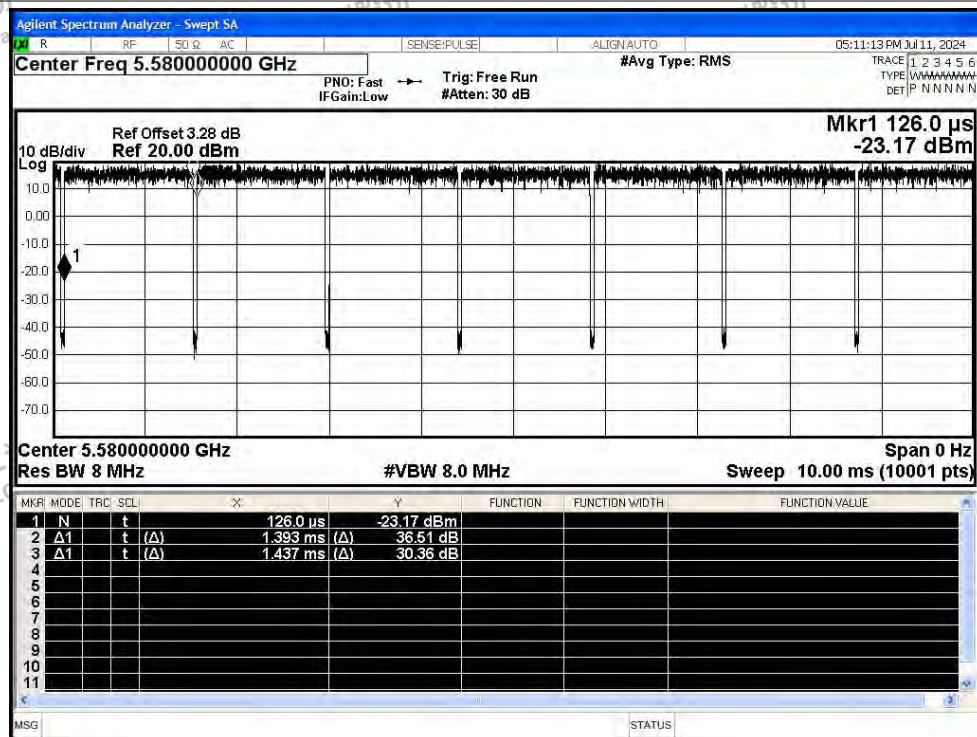


Test Graphs

Duty Cycle NVNT a 5500MHz Ant1



Duty Cycle NVNT a 5580MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

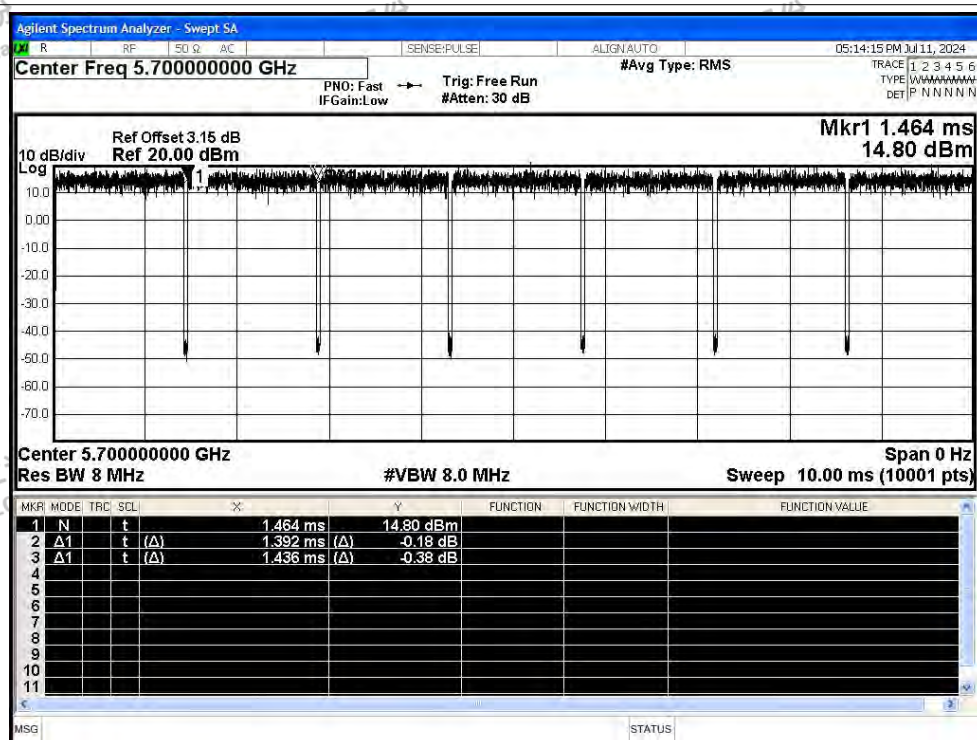
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

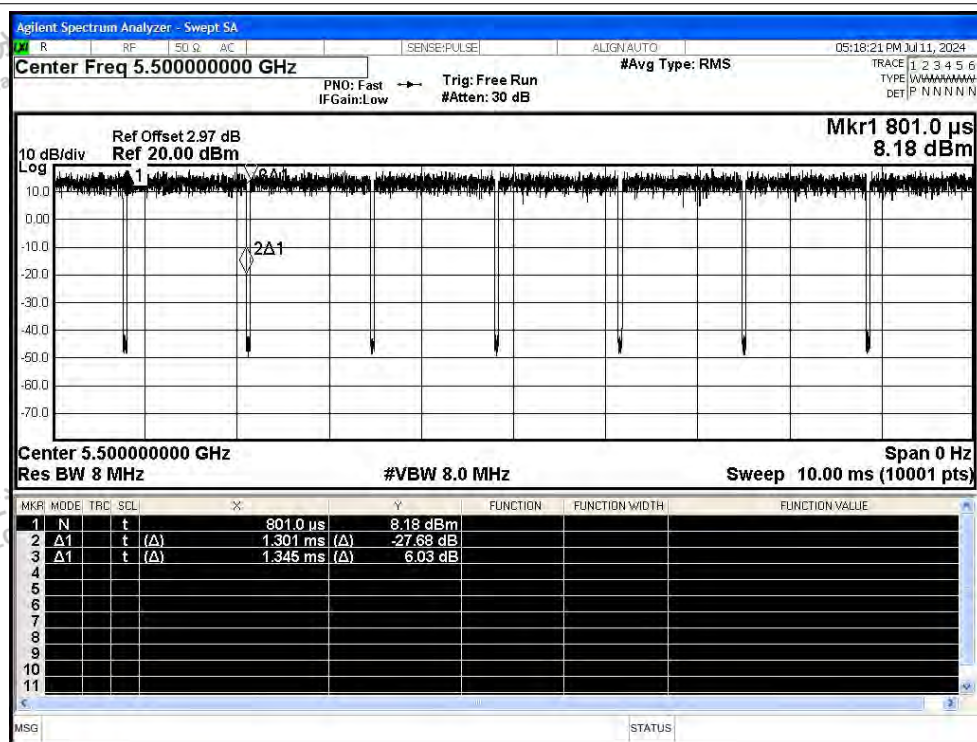
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Duty Cycle NVNT a 5700MHz Ant1



Duty Cycle NVNT n20 5500MHz Ant1



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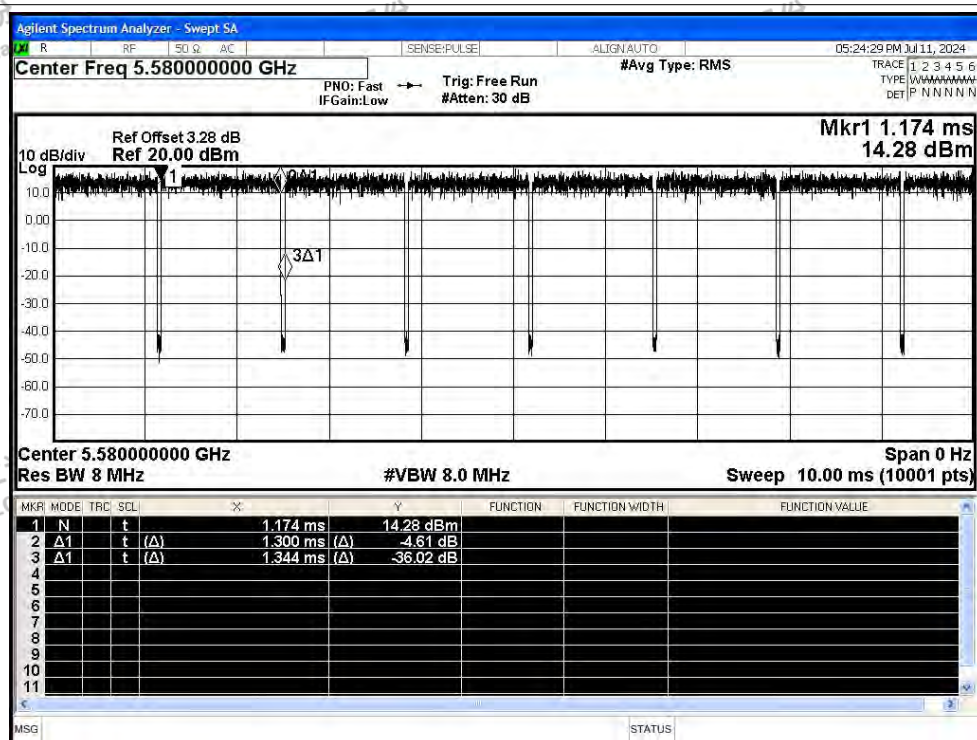
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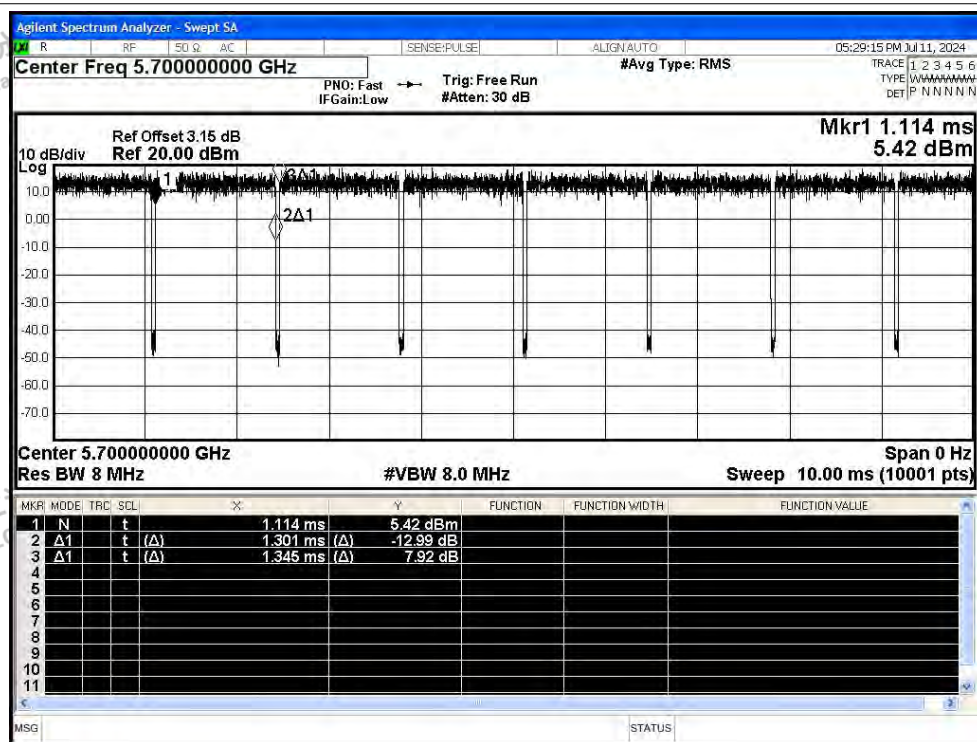
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Duty Cycle NVNT n20 5580MHz Ant1



Duty Cycle NVNT n20 5700MHz Ant1



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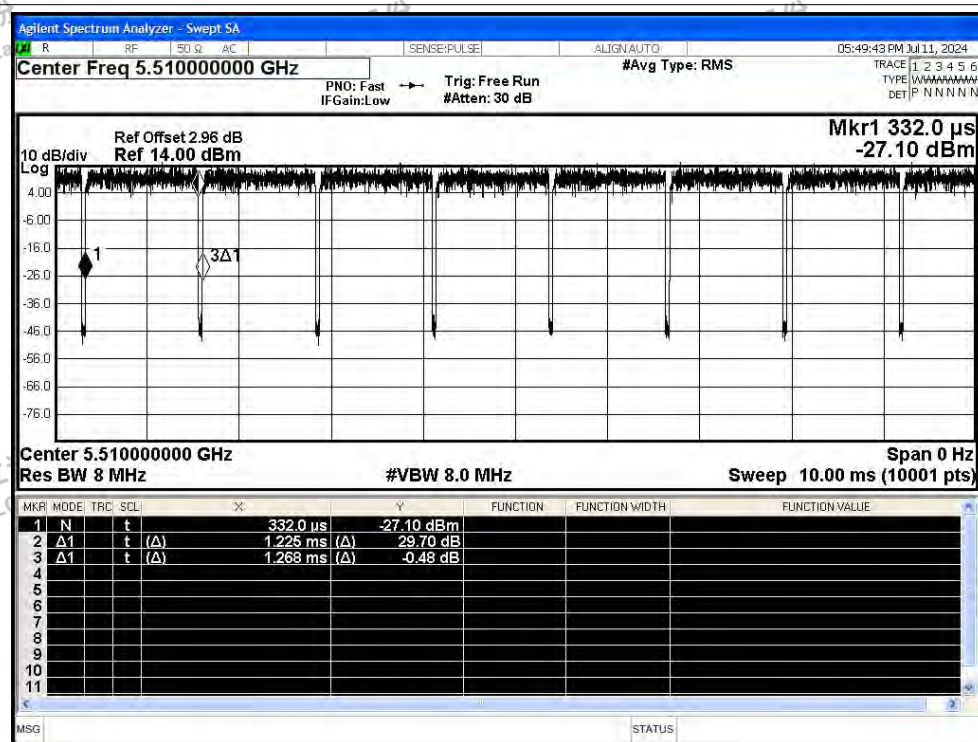
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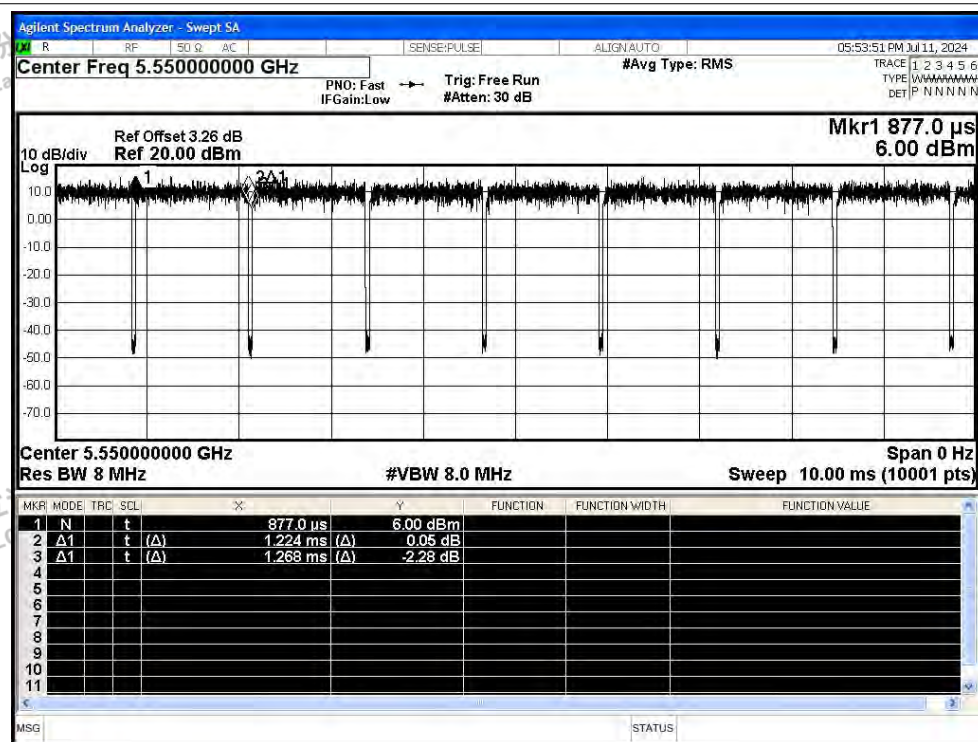
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Duty Cycle NVNT n40 5510MHz Ant1



Duty Cycle NVNT n40 5550MHz Ant1



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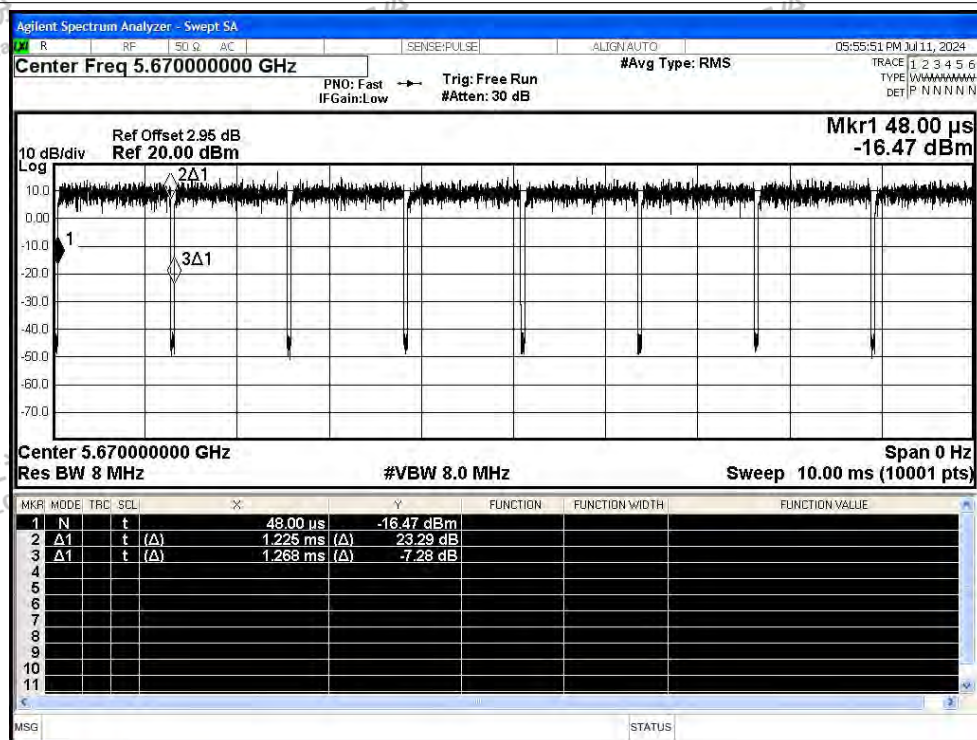
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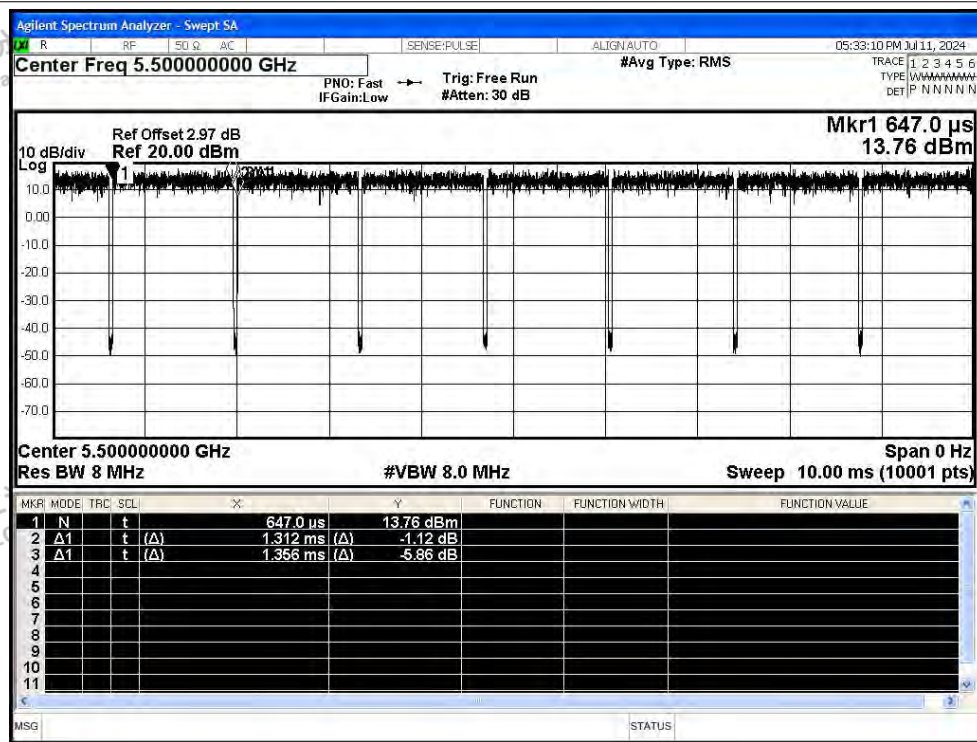
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Duty Cycle NVNT n40 5670MHz Ant1



Duty Cycle NVNT ac20 5500MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

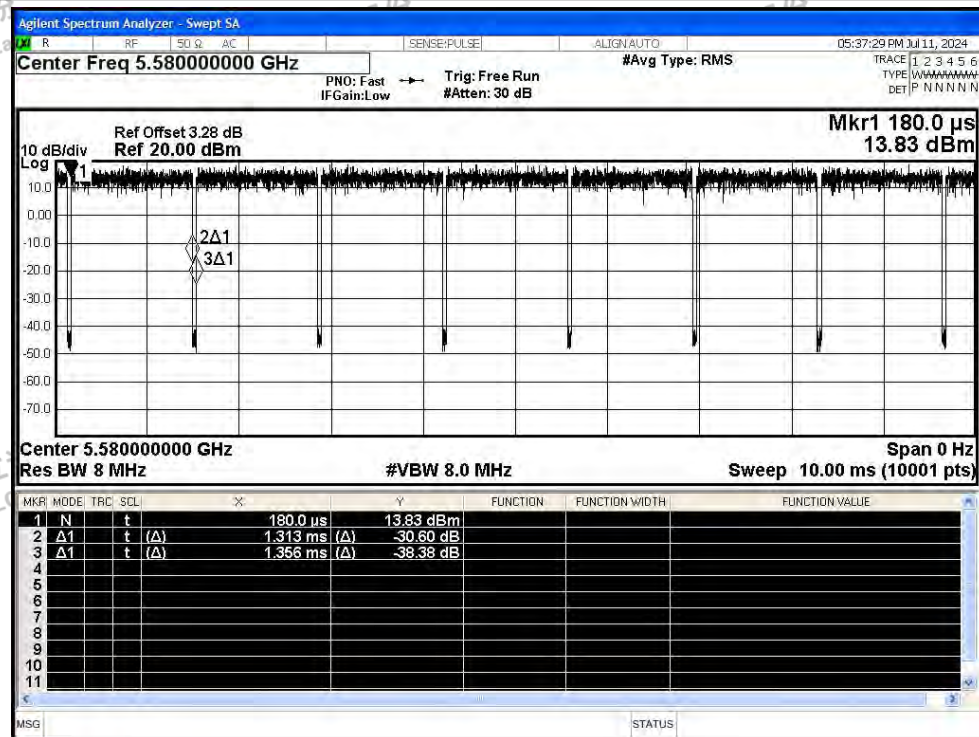
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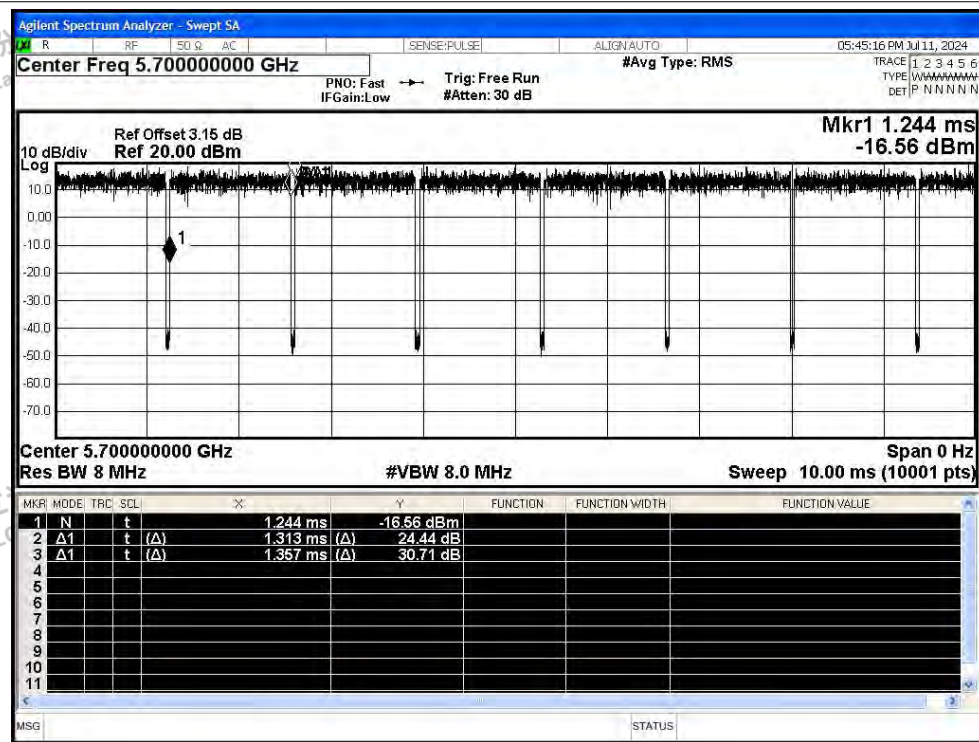
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Duty Cycle NVNT ac20 5580MHz Ant1



Duty Cycle NVNT ac20 5700MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

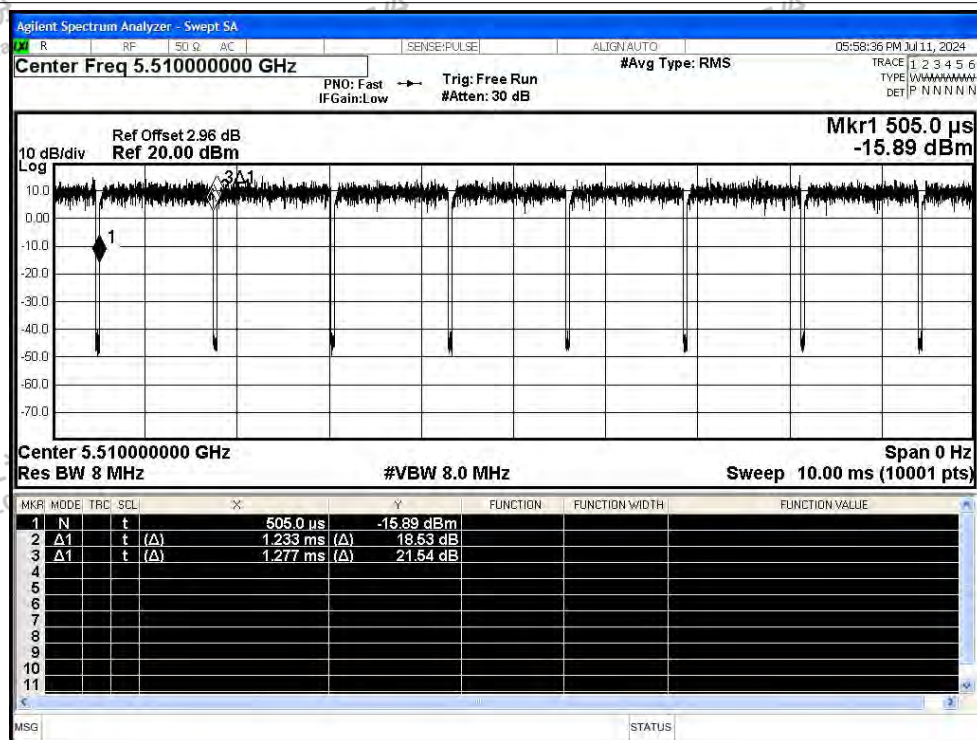
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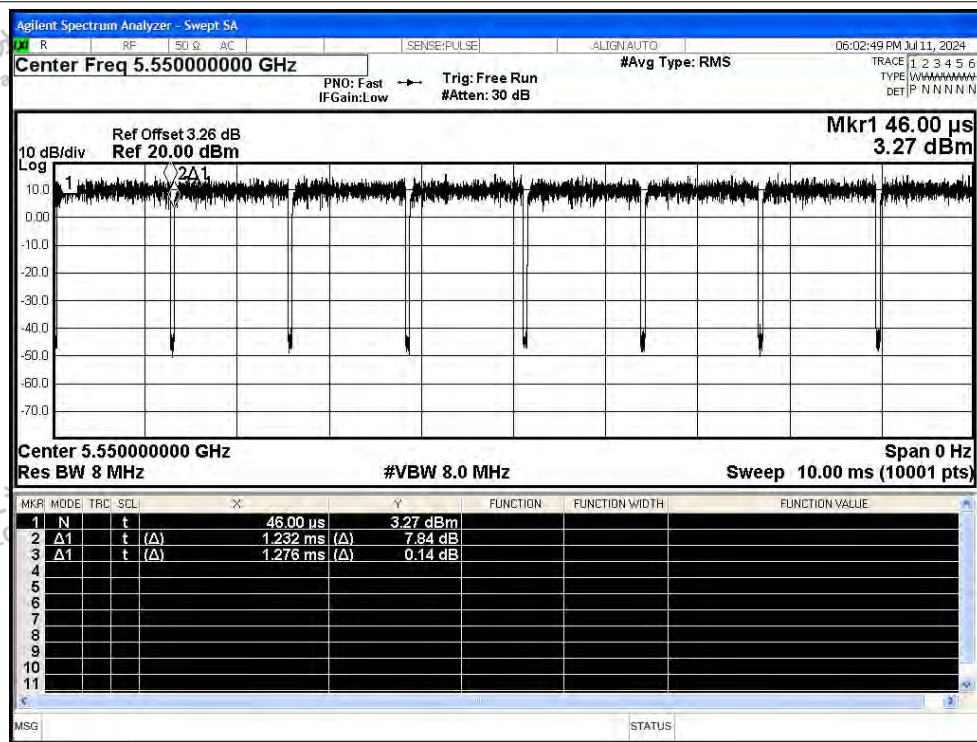
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Duty Cycle NVNT ac40 5510MHz Ant1



Duty Cycle NVNT ac40 5550MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

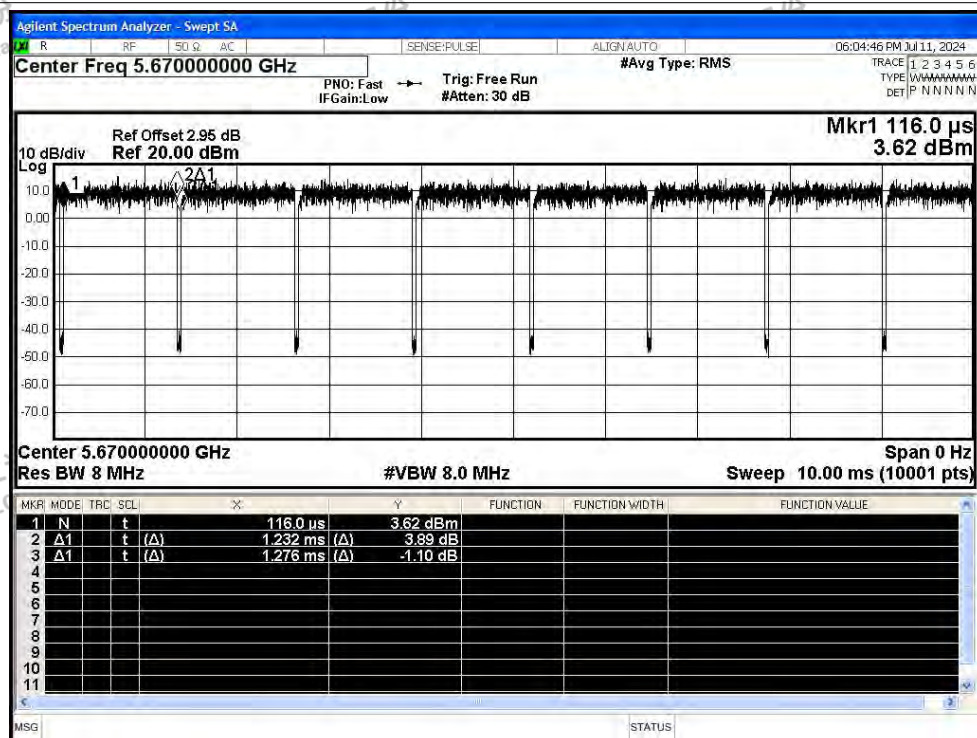
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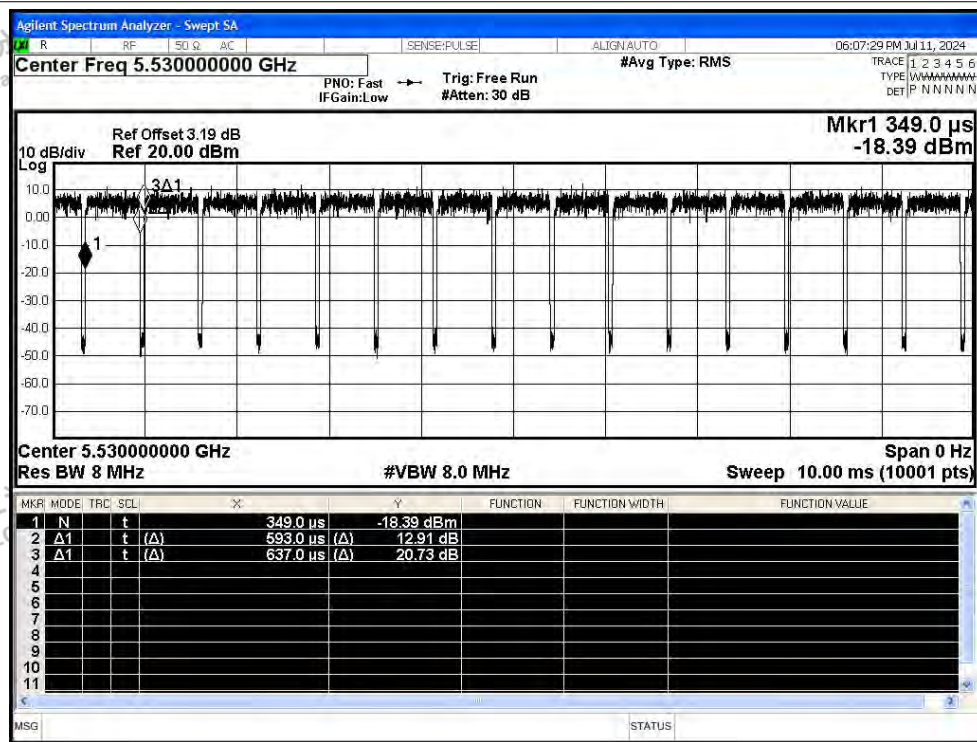
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Duty Cycle NVNT ac40 5670MHz Ant1



Duty Cycle NVNT ac80 5530MHz Ant1



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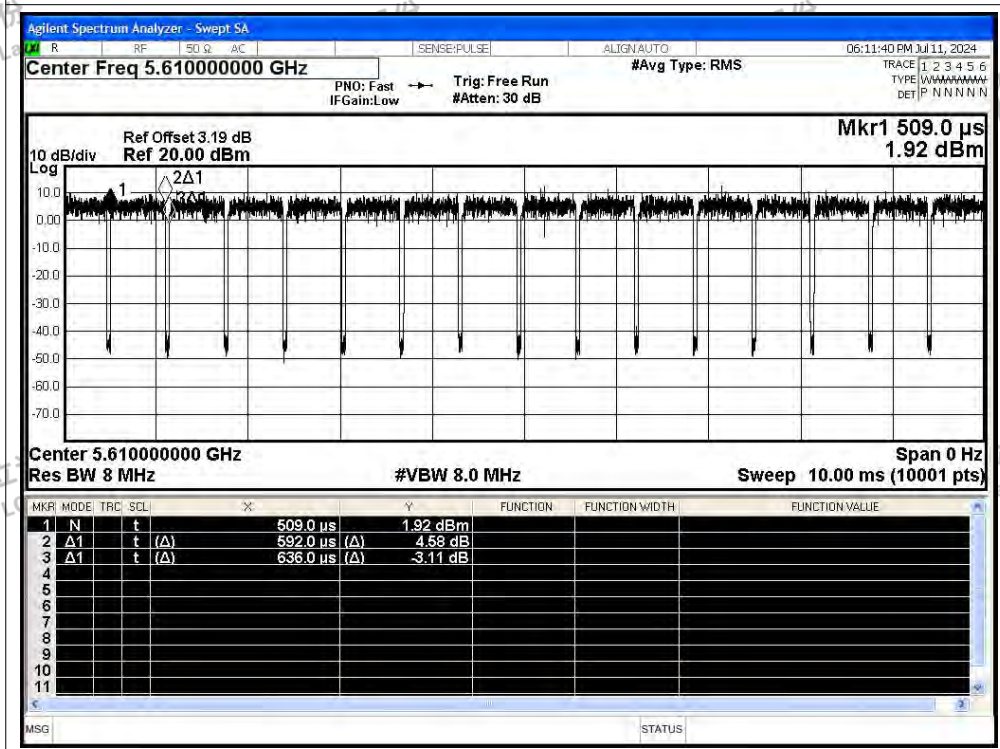
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Duty Cycle NVNT ac80 5610MHz Ant1



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