



Appendix C

RF Test Data for 5.3GWIFI(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





C.1 -26dB Bandwidth

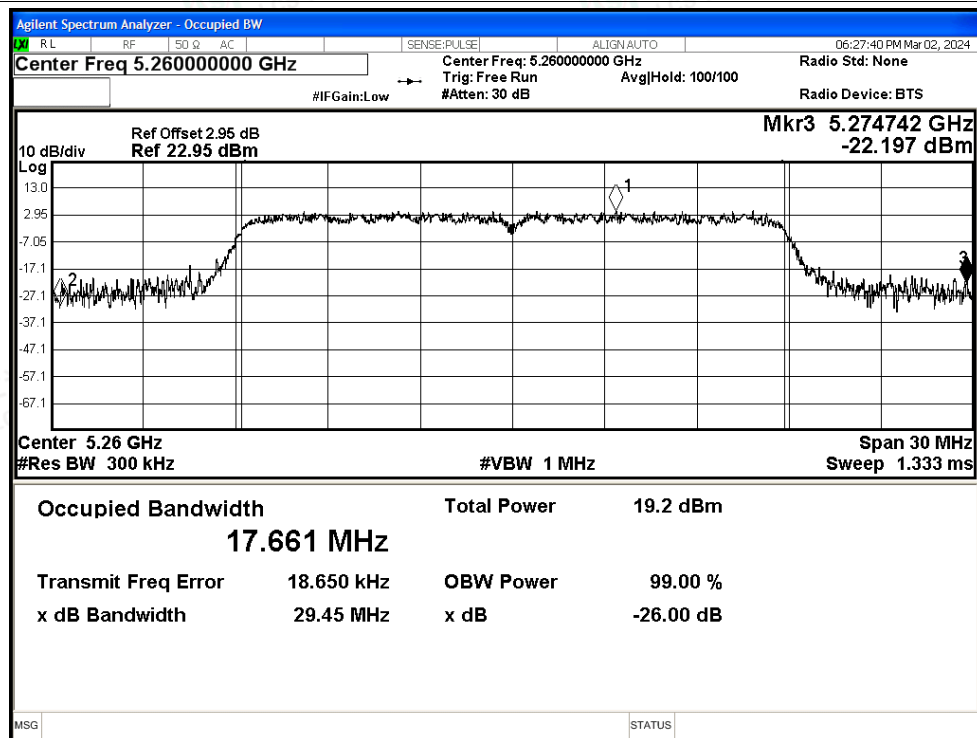
Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
NVNT	a	5260	Ant	29.447	---	Pass
NVNT	a	5300	Ant	28.312	---	Pass
NVNT	a	5320	Ant	29.609	---	Pass
NVNT	n20	5260	Ant	28.844	---	Pass
NVNT	n20	5300	Ant	27.641	---	Pass
NVNT	n20	5320	Ant	26.172	---	Pass
NVNT	n40	5270	Ant	40.392	---	Pass
NVNT	n40	5310	Ant	40.067	---	Pass
NVNT	ac20	5260	Ant	28.471	---	Pass
NVNT	ac20	5300	Ant	28.403	---	Pass
NVNT	ac20	5320	Ant	26.099	---	Pass
NVNT	ac40	5270	Ant	48.191	---	Pass
NVNT	ac40	5310	Ant	41.974	---	Pass
NVNT	ac80	5290	Ant	81.404	---	Pass





Test Graphs

-26dB Bandwidth NVNT a 5260MHz Ant



-26dB Bandwidth NVNT a 5300MHz Ant



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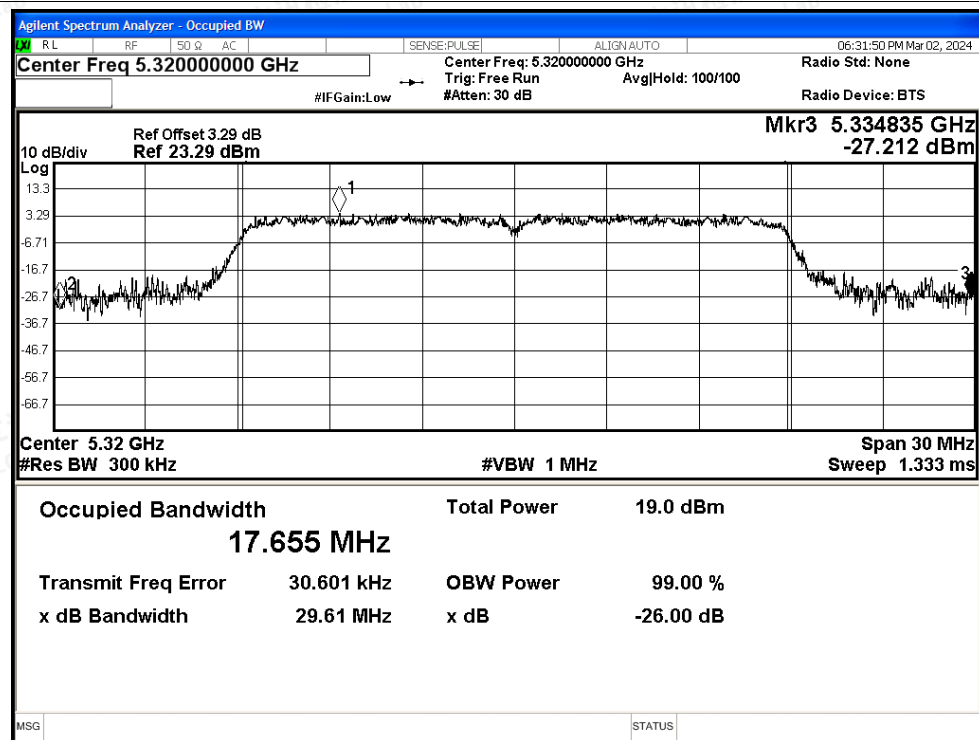
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

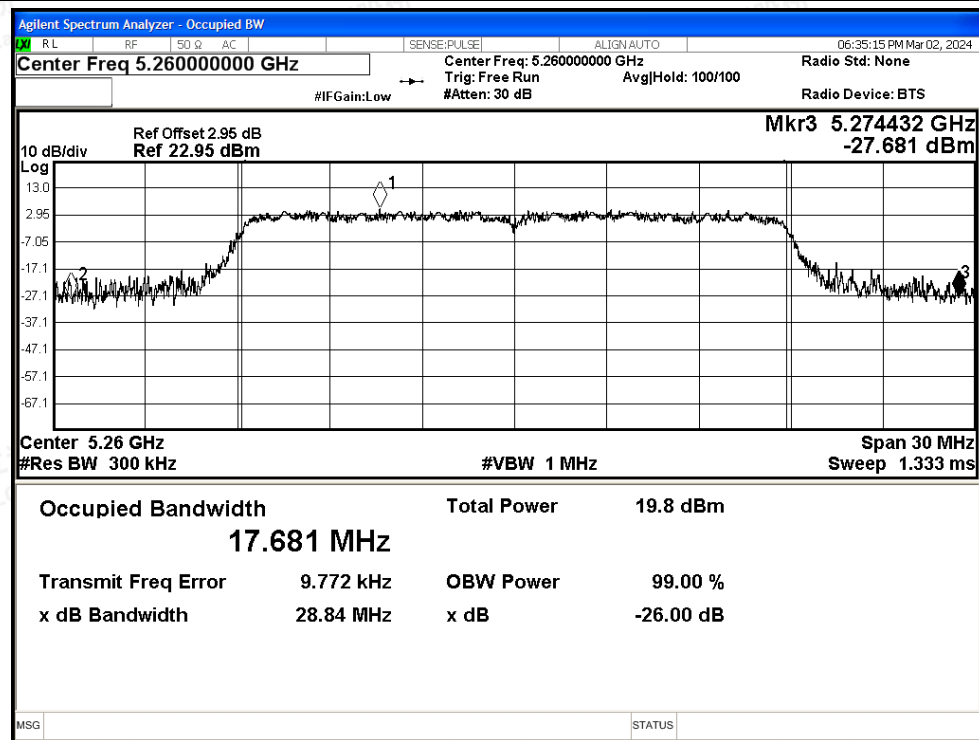
Scan code to check authenticity



-26dB Bandwidth NVNT a 5320MHz Ant



-26dB Bandwidth NVNT n20 5260MHz Ant



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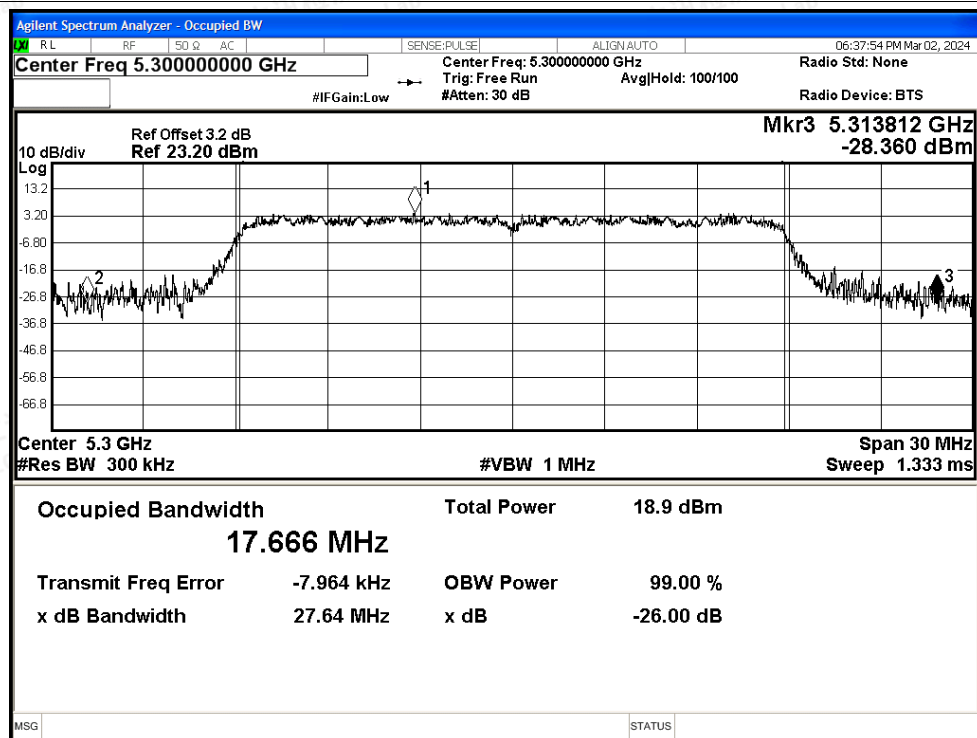
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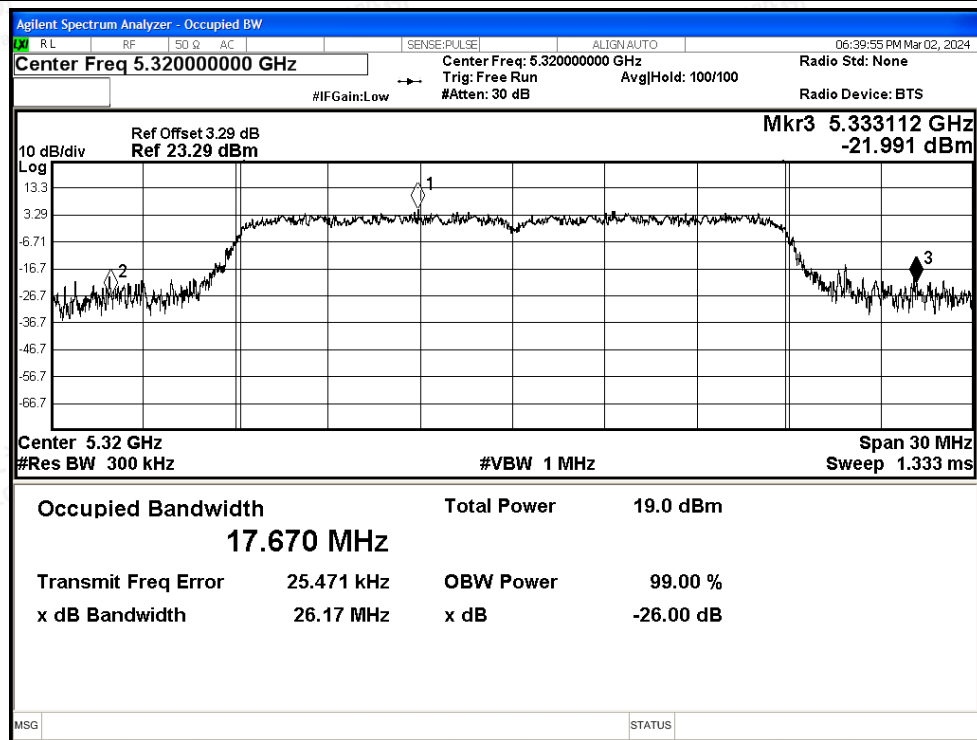
Scan code to check authenticity



-26dB Bandwidth NVNT n20 5300MHz Ant



-26dB Bandwidth NVNT n20 5320MHz Ant



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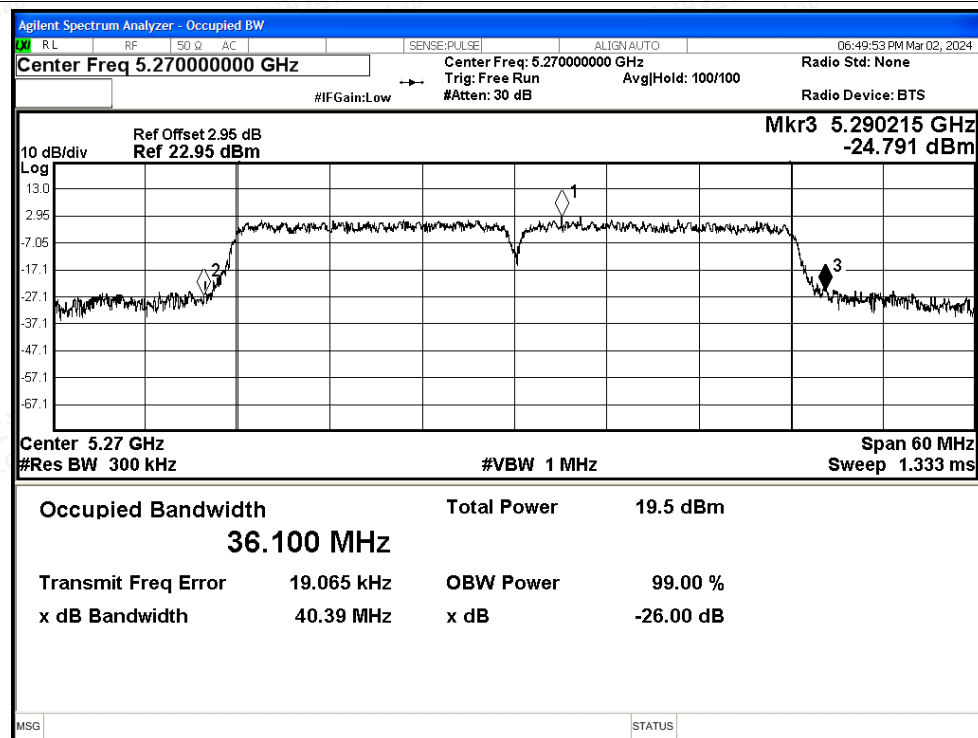
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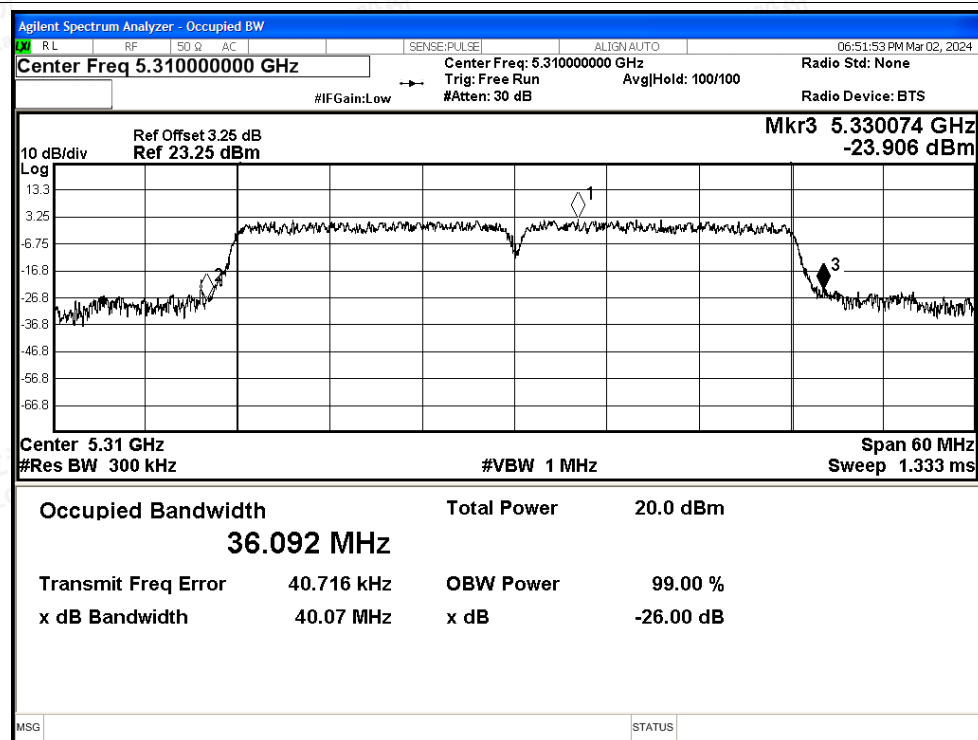
Scan code to check authenticity



-26dB Bandwidth NVNT n40 5270MHz Ant



-26dB Bandwidth NVNT n40 5310MHz Ant

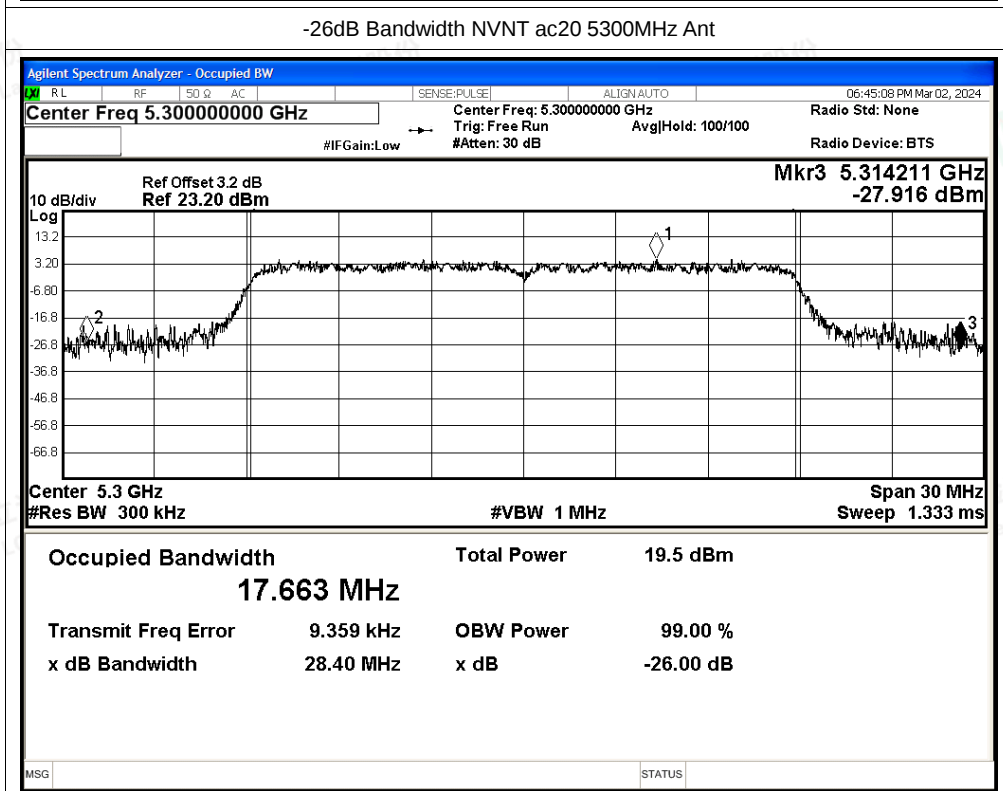
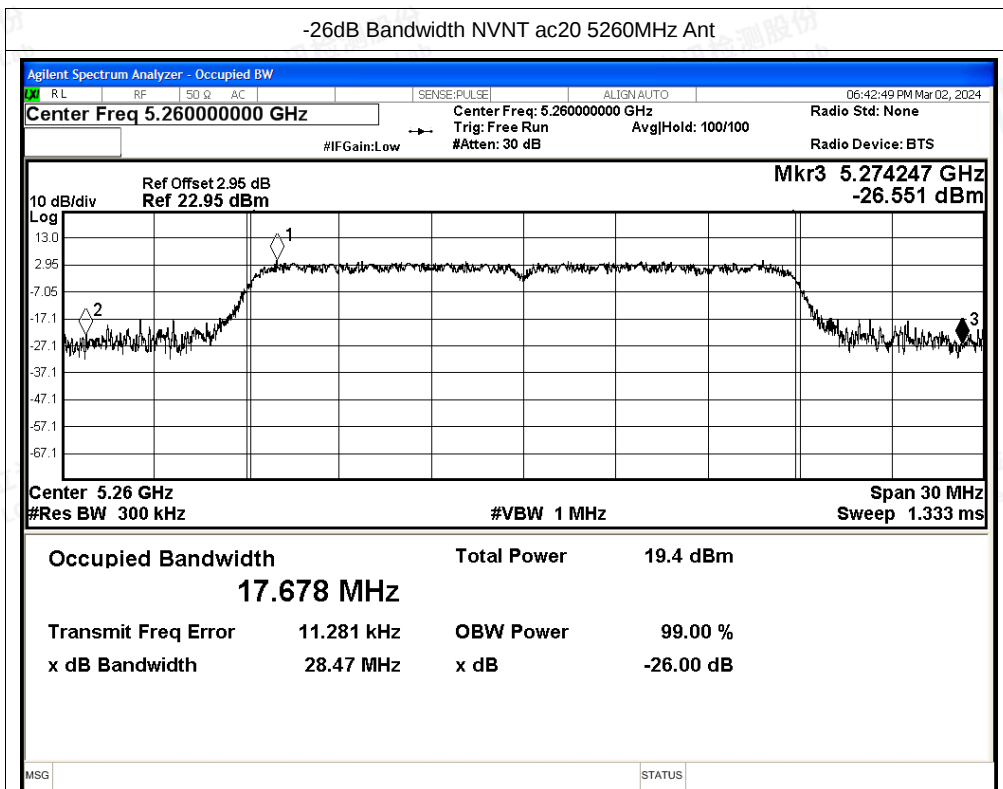


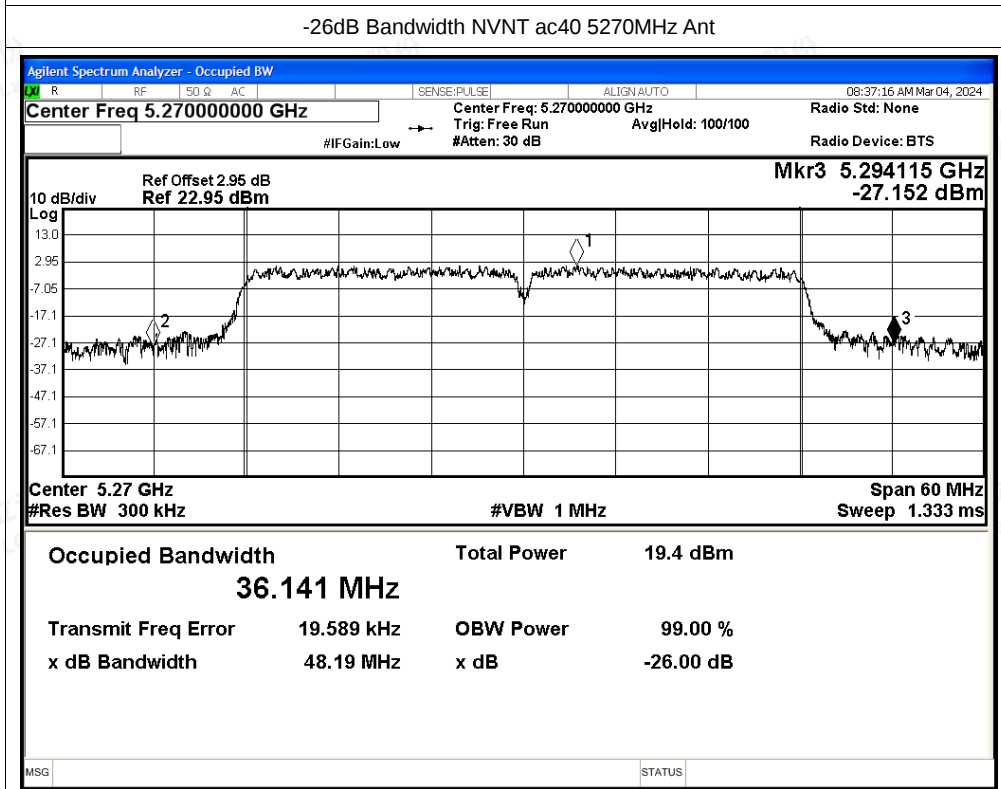
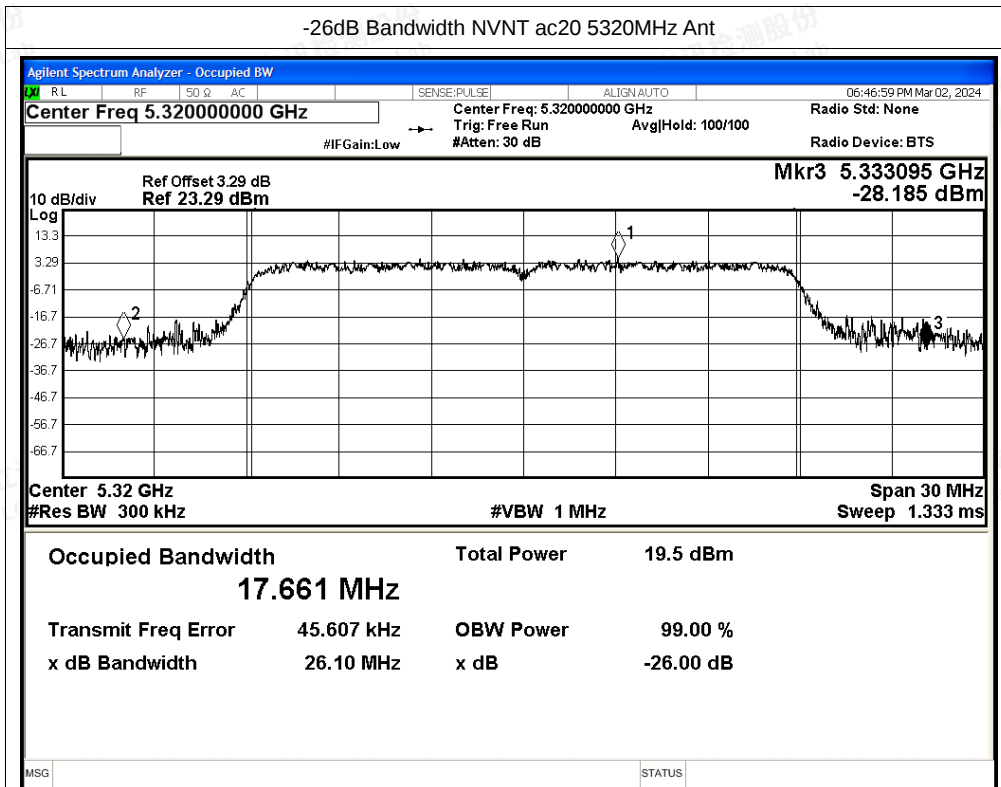
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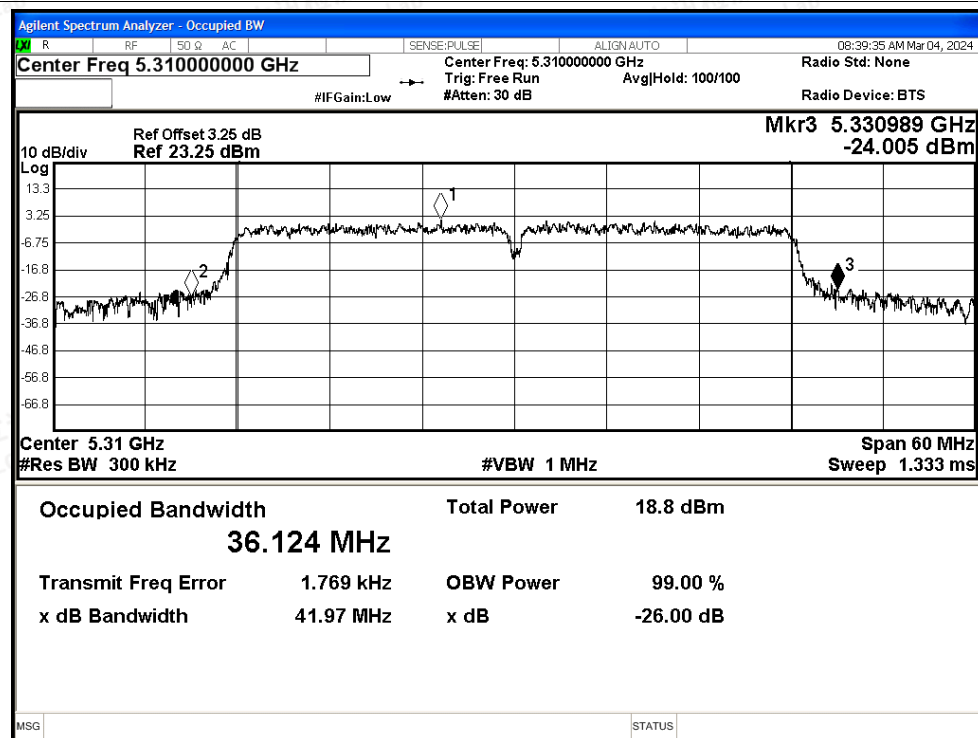
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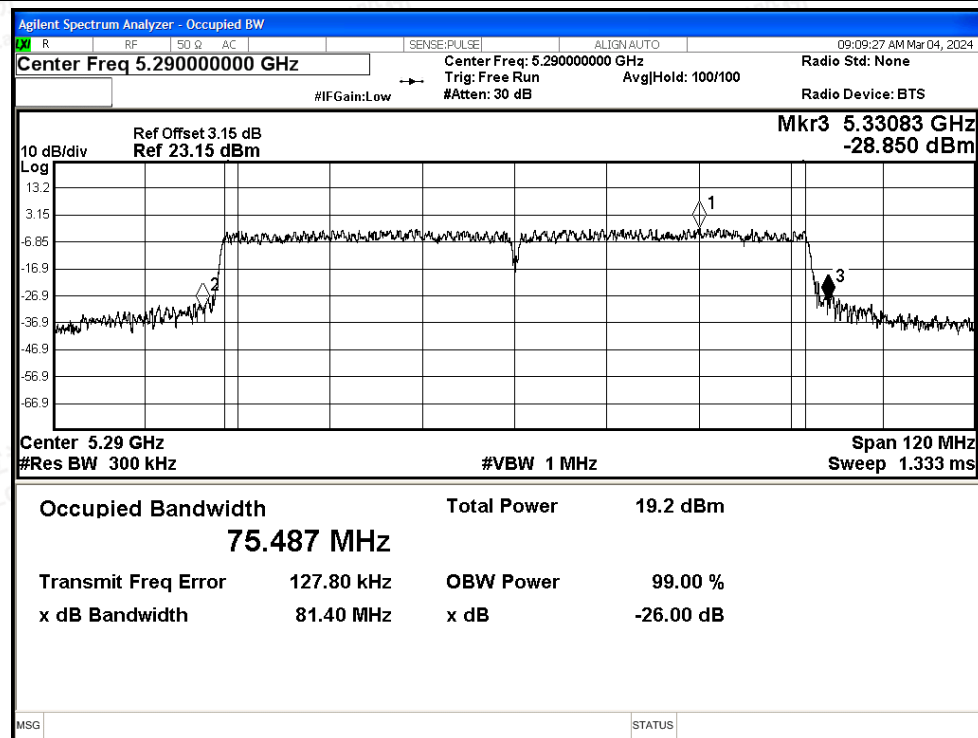
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-26dB Bandwidth NVNT ac40 5310MHz Ant



-26dB Bandwidth NVNT ac80 5290MHz Ant



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C.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5260	Ant	12.21	1.8	14.01	24	Pass
NVNT	a	5300	Ant	12.56	1.8	14.36	24	Pass
NVNT	a	5320	Ant	12.12	1.8	13.92	24	Pass
NVNT	n20	5260	Ant	12.78	1.86	14.64	24	Pass
NVNT	n20	5300	Ant	12.27	1.86	14.13	24	Pass
NVNT	n20	5320	Ant	12.03	1.9	13.93	24	Pass
NVNT	n40	5270	Ant	11.58	2.53	14.11	24	Pass
NVNT	n40	5310	Ant	11.98	2.59	14.57	24	Pass
NVNT	ac20	5260	Ant	11.96	1.8	13.76	24	Pass
NVNT	ac20	5300	Ant	12.4	1.8	14.2	24	Pass
NVNT	ac20	5320	Ant	11.93	1.8	13.73	24	Pass
NVNT	ac40	5270	Ant	11.28	2.45	13.73	24	Pass
NVNT	ac40	5310	Ant	11.38	2.4	13.78	24	Pass
NVNT	ac80	5290	Ant	10.6	3.01	13.61	24	Pass



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C.3 Maximum Power Spectral Density Level

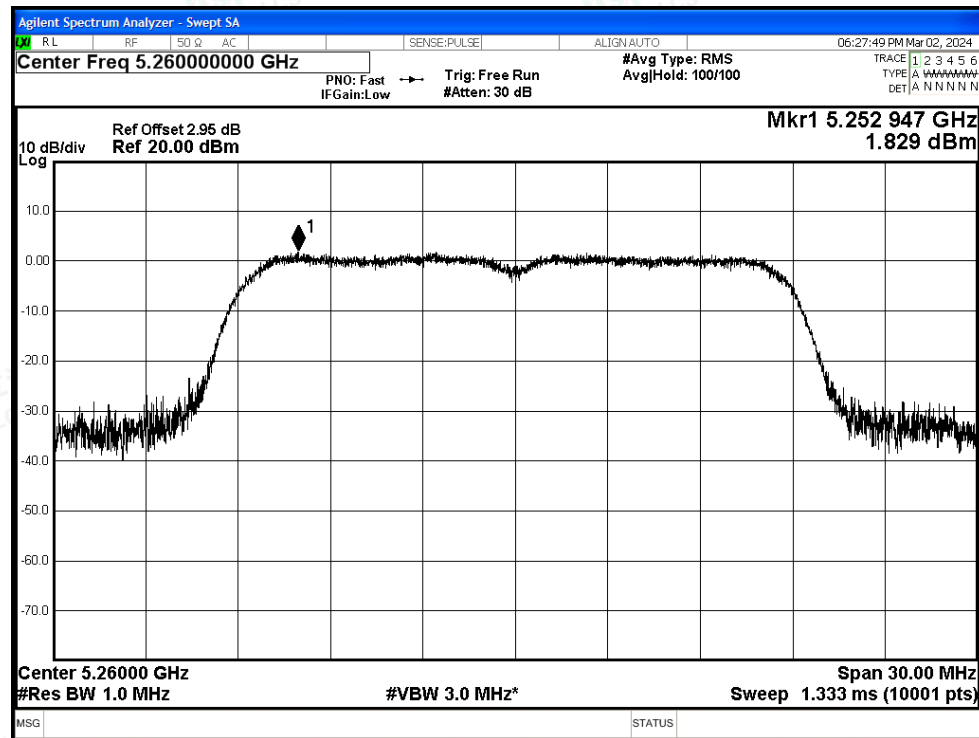
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/MHz)	Duty Factor (dB)	Total PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	a	5260	Ant	1.83	1.8	3.63	11	Pass
NVNT	a	5300	Ant	2.17	1.8	3.97	11	Pass
NVNT	a	5320	Ant	1.54	1.8	3.34	11	Pass
NVNT	n20	5260	Ant	2.55	1.86	4.41	11	Pass
NVNT	n20	5300	Ant	1.48	1.86	3.34	11	Pass
NVNT	n20	5320	Ant	1.66	1.9	3.56	11	Pass
NVNT	n40	5270	Ant	-1.26	2.53	1.27	11	Pass
NVNT	n40	5310	Ant	-0.57	2.59	2.02	11	Pass
NVNT	ac20	5260	Ant	1.79	1.8	3.59	11	Pass
NVNT	ac20	5300	Ant	1.98	1.8	3.78	11	Pass
NVNT	ac20	5320	Ant	2.04	1.8	3.84	11	Pass
NVNT	ac40	5270	Ant	-0.98	2.45	1.47	11	Pass
NVNT	ac40	5310	Ant	-2.07	2.4	0.33	11	Pass
NVNT	ac80	5290	Ant	-5.07	3.01	-2.06	11	Pass



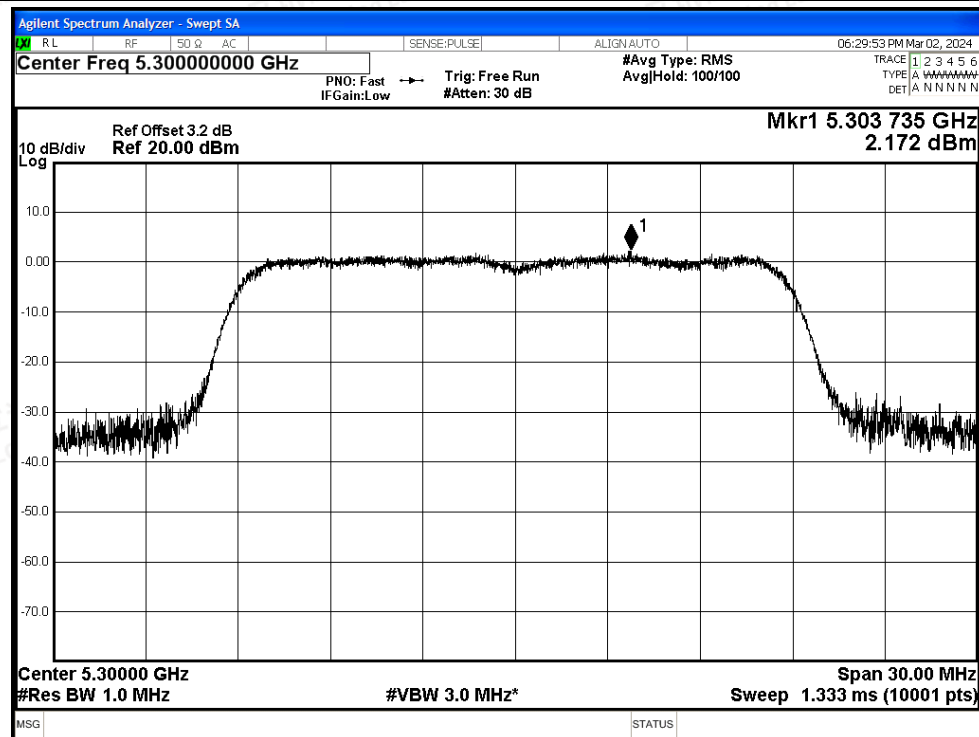


Test Graphs

PSD NVNT a 5260MHz Ant



PSD NVNT a 5300MHz Ant

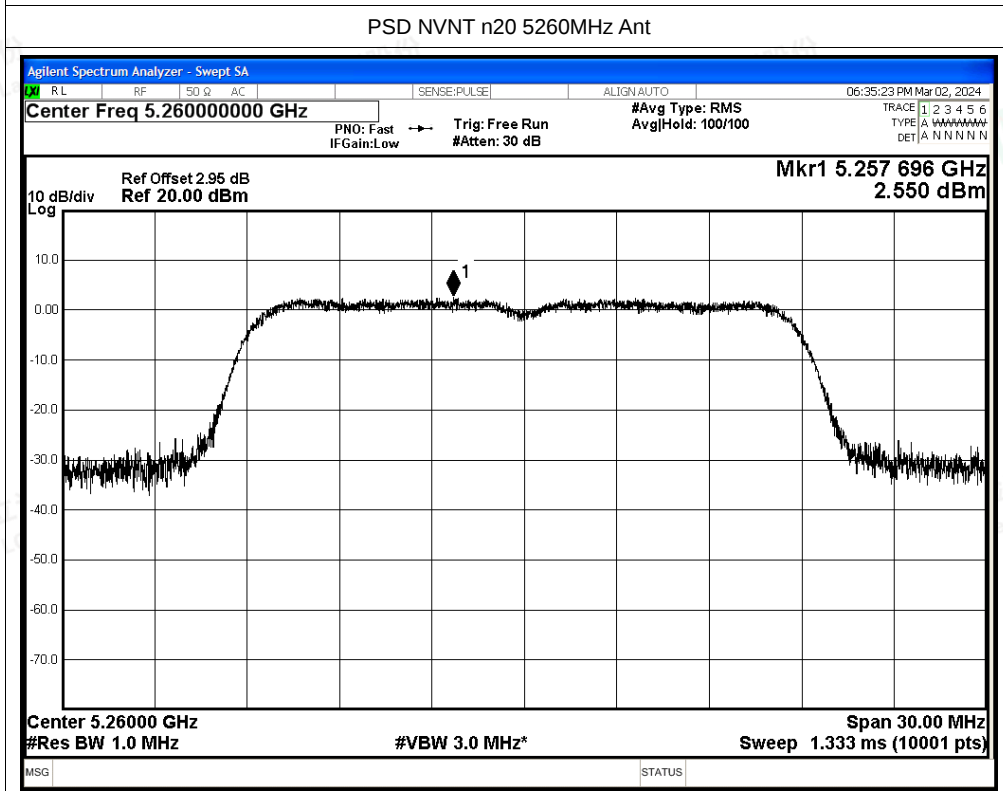
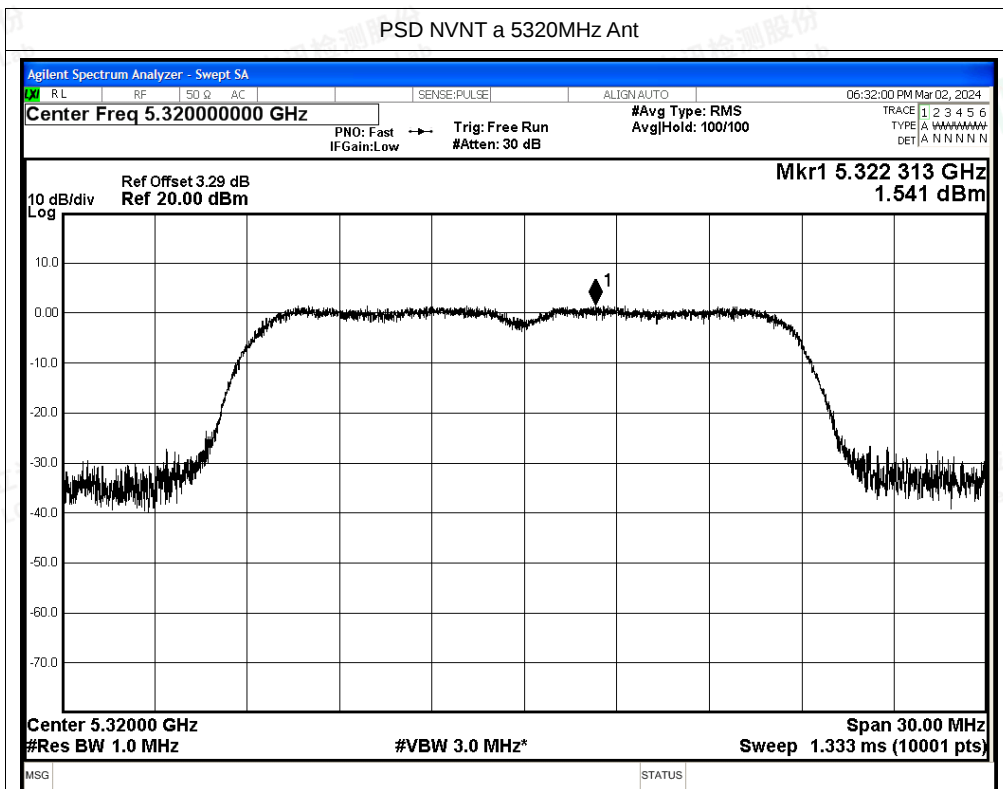


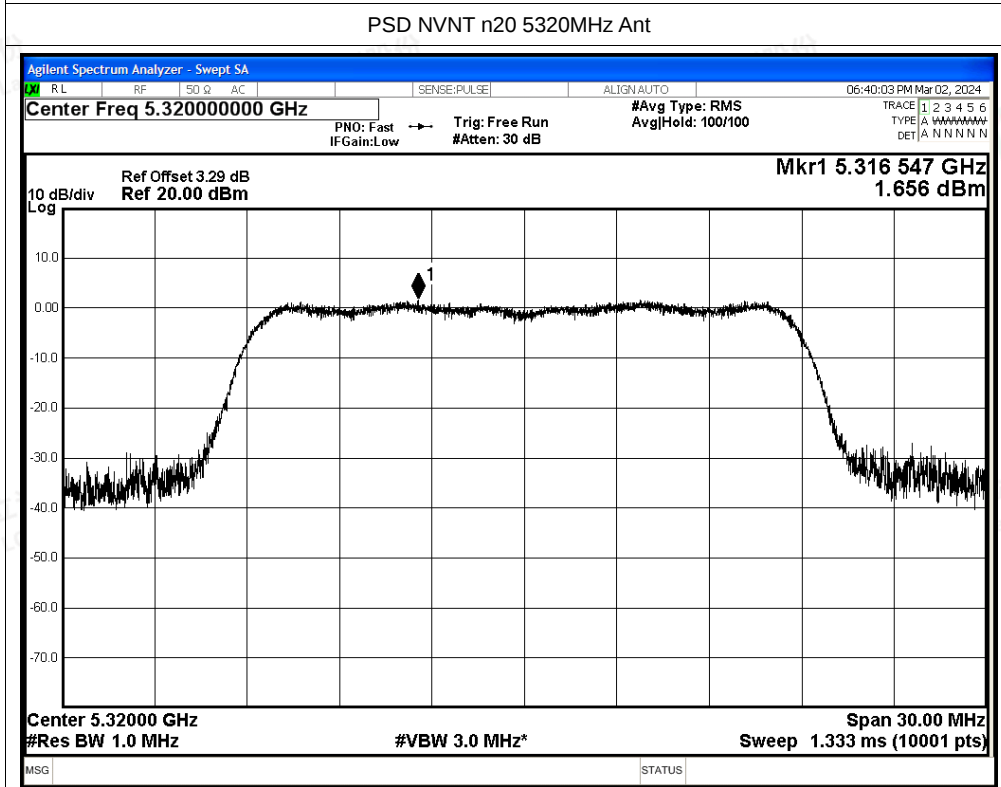
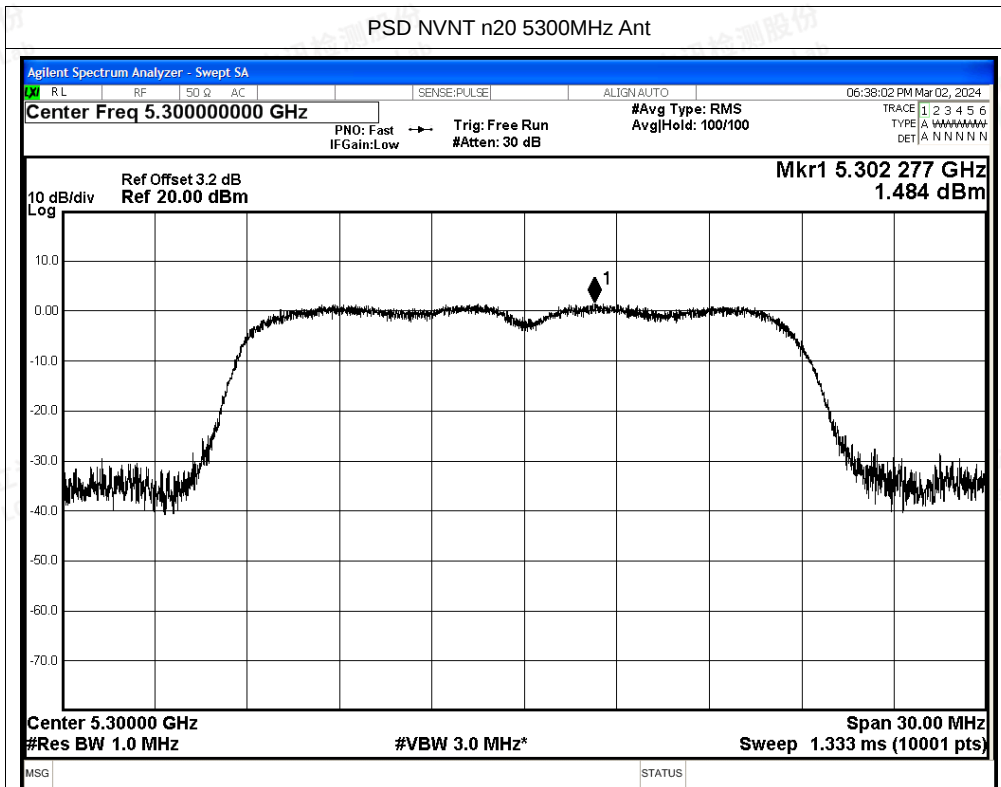
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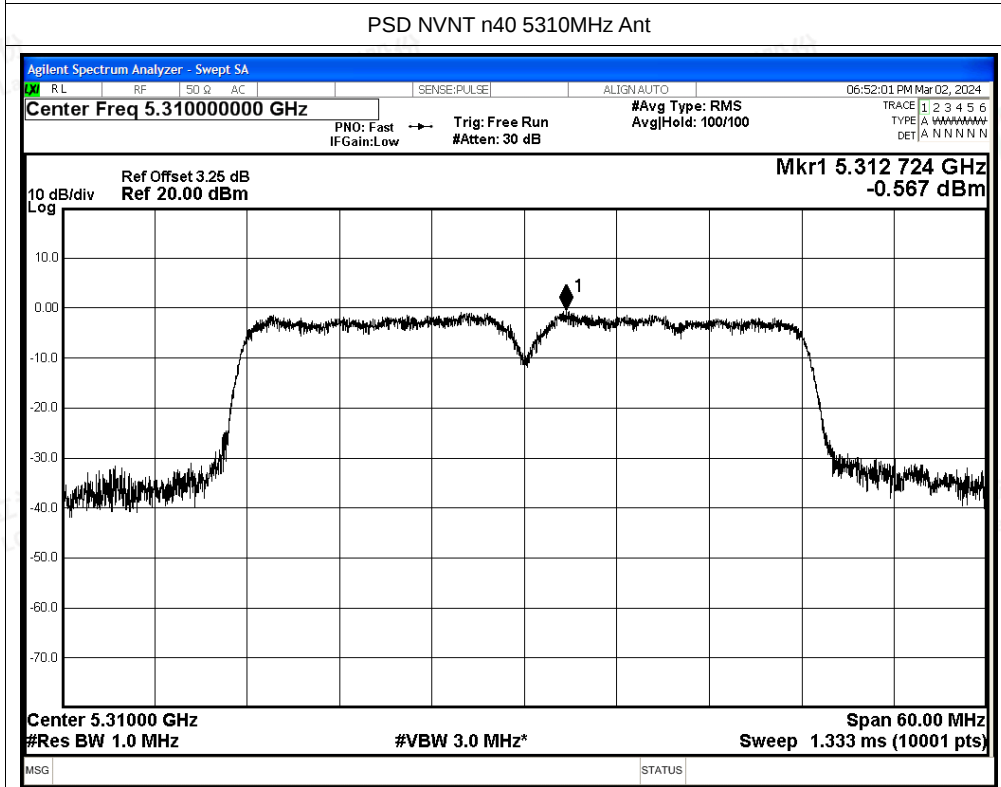
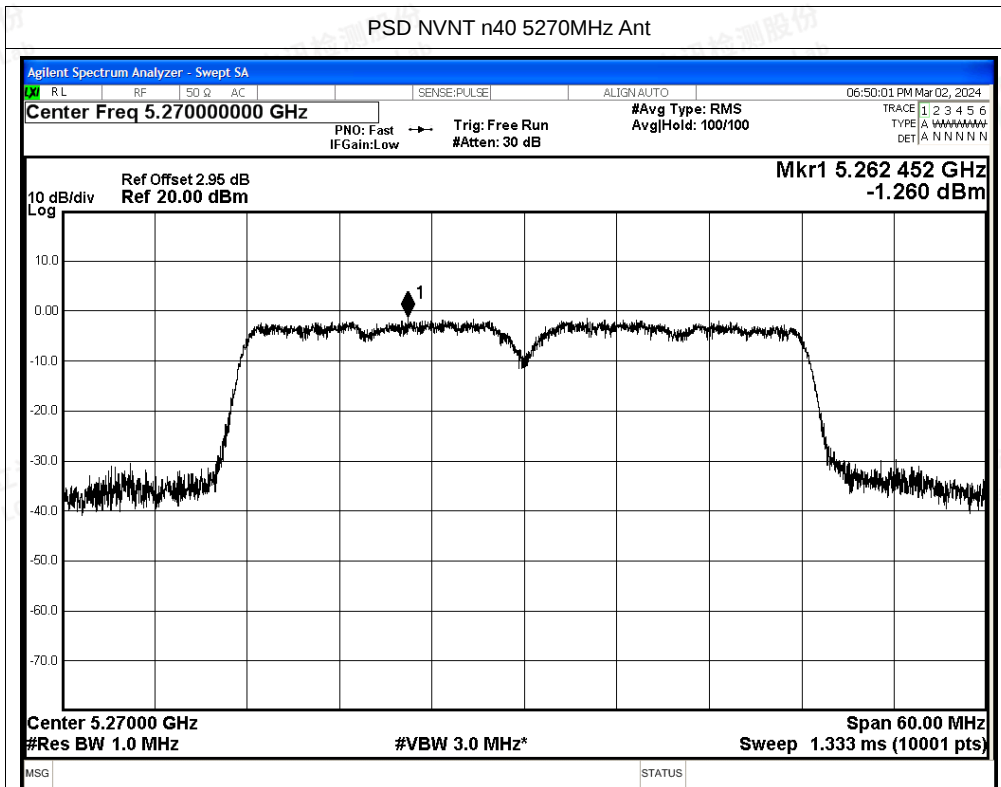


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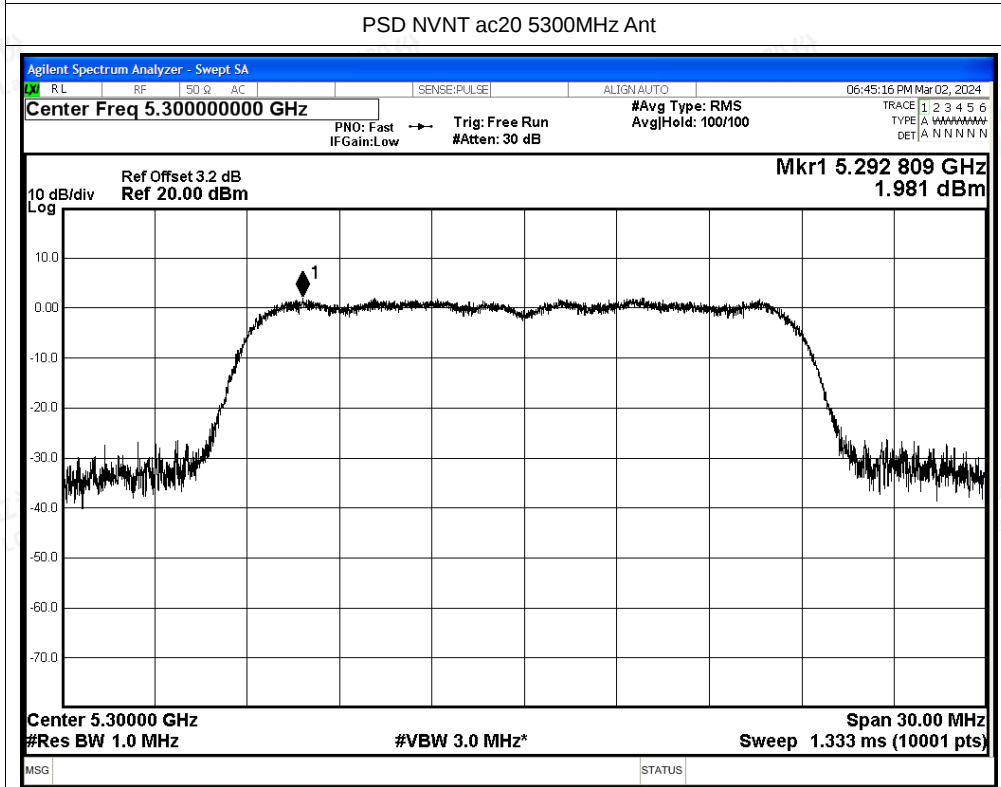
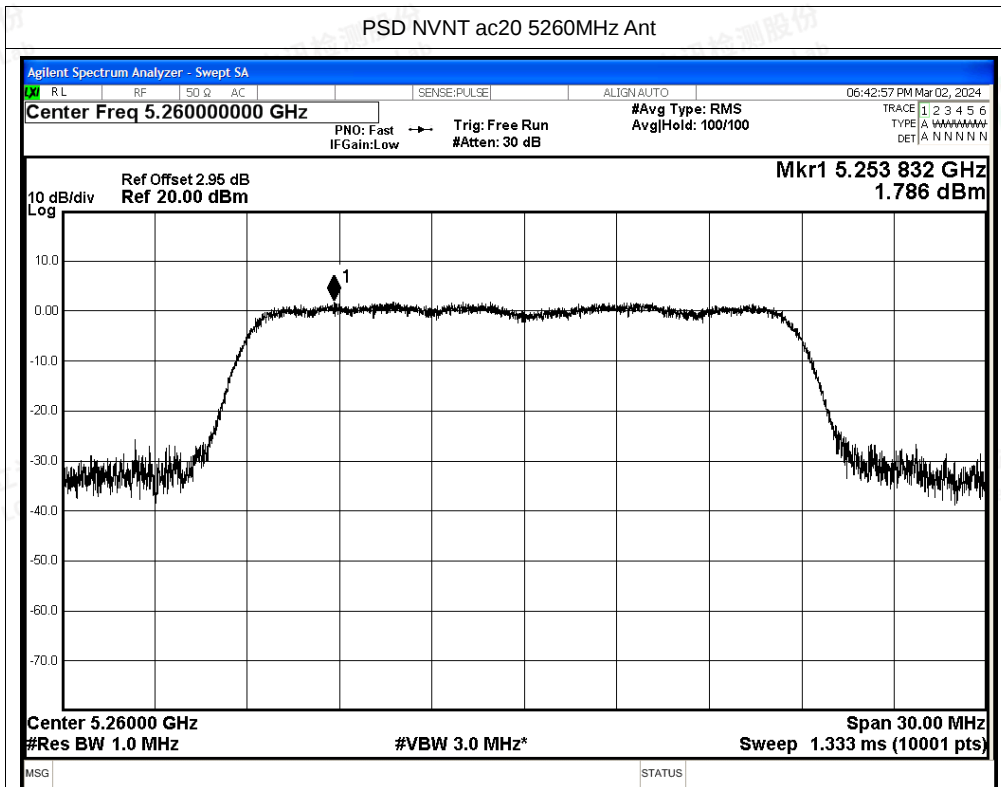


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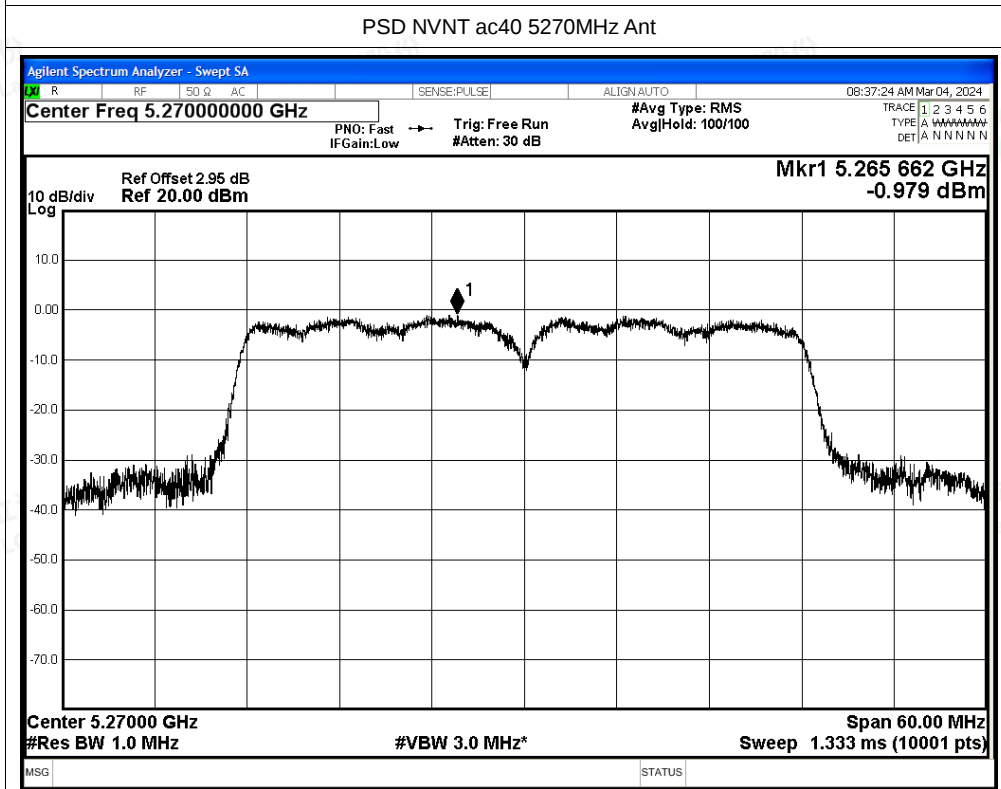
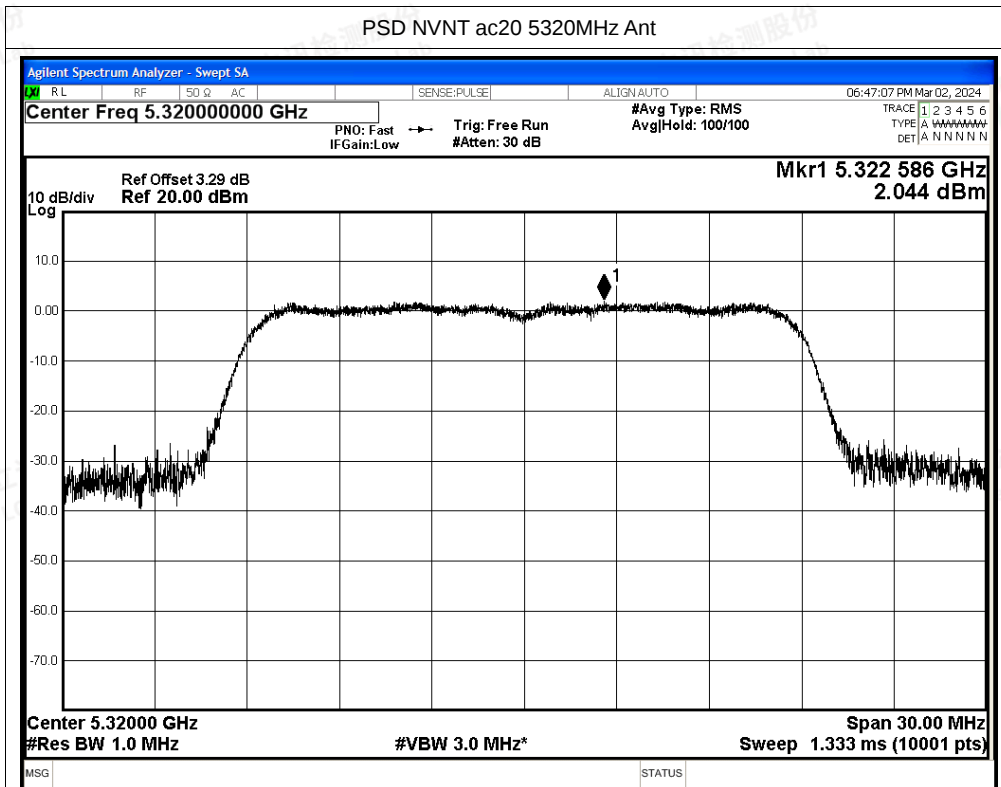


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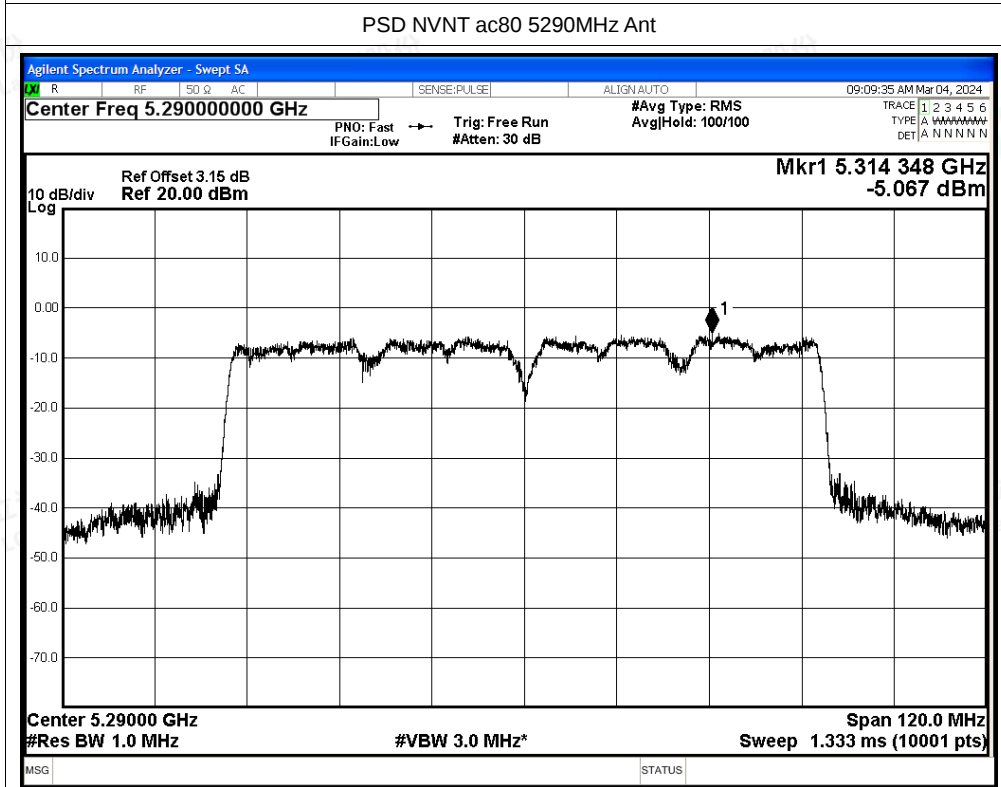
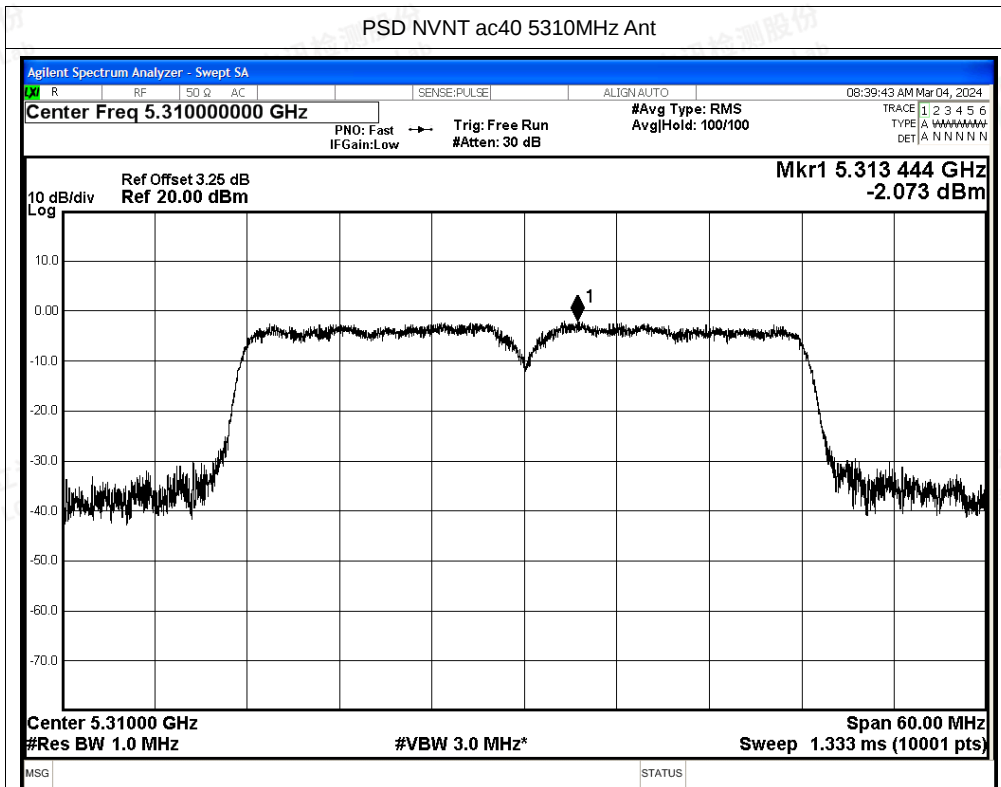


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C.4 Restrict Band

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	5260	Ant	4500	-50.72	2	-	46.51	Peak	68.2	Pass
NVNT	a	5260	Ant	4500	-59.74	2	1.8	39.29	Average	54	Pass
NVNT	a	5260	Ant	4787.82	-44.48	2	-	52.75	Peak	68.2	Pass
NVNT	a	5260	Ant	4787.82	-54.59	2	1.8	44.44	Average	54	Pass
NVNT	a	5260	Ant	5150	-48.12	2	-	49.11	Peak	68.2	Pass
NVNT	a	5260	Ant	5150	-56.36	2	1.8	42.67	Average	54	Pass
NVNT	a	5320	Ant	5350	-34.35	2	-	62.88	Peak	68.2	Pass
NVNT	a	5320	Ant	5350	-49.93	2	1.8	49.1	Average	54	Pass
NVNT	a	5320	Ant	5352.4	-31.89	2	-	65.34	Peak	68.2	Pass
NVNT	a	5320	Ant	5460	-50.52	2	-	46.71	Peak	68.2	Pass
NVNT	a	5320	Ant	5460	-58.09	2	1.8	40.94	Average	54	Pass
NVNT	n20	5260	Ant	4500	-50.04	2	-	47.19	Peak	68.2	Pass
NVNT	n20	5260	Ant	4500	-59.4	2	1.86	39.69	Average	54	Pass
NVNT	n20	5260	Ant	4788.6	-44.98	2	-	52.25	Peak	68.2	Pass
NVNT	n20	5260	Ant	4787.82	-54.08	2	1.86	45.01	Average	54	Pass
NVNT	n20	5260	Ant	5150	-47.79	2	-	49.44	Peak	68.2	Pass
NVNT	n20	5260	Ant	5150	-55.9	2	1.86	43.19	Average	54	Pass
NVNT	n20	5320	Ant	5350	-37.29	2	-	59.94	Peak	68.2	Pass
NVNT	n20	5320	Ant	5350	-50.39	2	1.9	48.74	Average	54	Pass
NVNT	n20	5320	Ant	5351.8	-31.79	2	-	65.44	Peak	68.2	Pass
NVNT	n20	5320	Ant	5460	-50.73	2	-	46.5	Peak	68.2	Pass
NVNT	n20	5320	Ant	5460	-58.18	2	1.9	40.95	Average	54	Pass
NVNT	n40	5270	Ant	4500	-50.53	2	-	46.7	Peak	68.2	Pass
NVNT	n40	5270	Ant	4500	-59.12	2	2.53	40.64	Average	54	Pass
NVNT	n40	5270	Ant	4806.18	-42.48	2	-	54.75	Peak	68.2	Pass
NVNT	n40	5270	Ant	4806.99	-50.91	2	2.53	48.85	Average	54	Pass
NVNT	n40	5270	Ant	5150	-47.34	2	-	49.89	Peak	68.2	Pass
NVNT	n40	5270	Ant	5150	-57.11	2	2.53	42.65	Average	54	Pass
NVNT	n40	5310	Ant	5350	-37.99	2	-	59.24	Peak	68.2	Pass
NVNT	n40	5310	Ant	5350	-51.72	2	2.59	48.1	Average	54	Pass
NVNT	n40	5310	Ant	5350.6	-35.41	2	-	61.82	Peak	68.2	Pass
NVNT	n40	5310	Ant	5350.8	-50.88	2	2.59	48.94	Average	54	Pass
NVNT	n40	5310	Ant	5460	-49.86	2	-	47.37	Peak	68.2	Pass
NVNT	n40	5310	Ant	5460	-58.3	2	2.59	41.52	Average	54	Pass
NVNT	ac20	5260	Ant	4500	-51.53	2	-	45.7	Peak	68.2	Pass
NVNT	ac20	5260	Ant	4500	-59.52	2	1.8	39.51	Average	54	Pass
NVNT	ac20	5260	Ant	4787.04	-44.96	2	-	52.27	Peak	68.2	Pass



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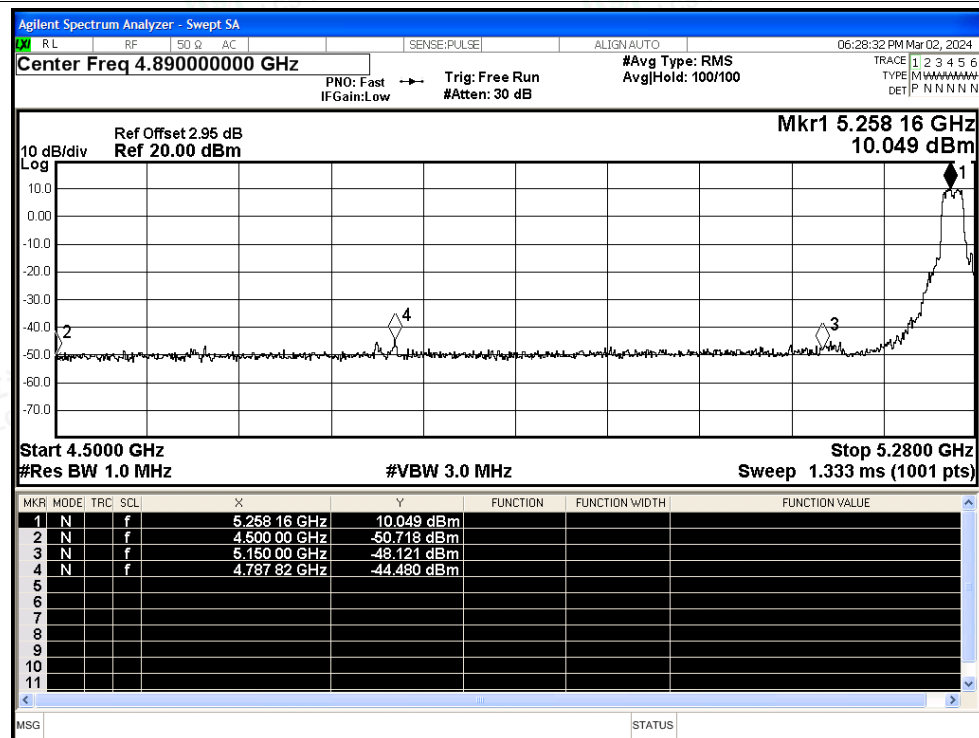
NVNT	ac20	5260	Ant	4787.82	-54.79	2	1.8	44.24	Average	54	Pass
NVNT	ac20	5260	Ant	5150	-47.85	2	-	49.38	Peak	68.2	Pass
NVNT	ac20	5260	Ant	5150	-56.34	2	1.8	42.69	Average	54	Pass
NVNT	ac20	5320	Ant	5350	-37.99	2	-	59.24	Peak	68.2	Pass
NVNT	ac20	5320	Ant	5350	-51.68	2	1.8	47.35	Average	54	Pass
NVNT	ac20	5320	Ant	5353.6	-35.85	2	-	61.38	Peak	68.2	Pass
NVNT	ac20	5320	Ant	5350.6	-50.59	2	1.8	48.44	Average	54	Pass
NVNT	ac20	5320	Ant	5460	-49.51	2	-	47.72	Peak	68.2	Pass
NVNT	ac20	5320	Ant	5460	-58.04	2	1.8	40.99	Average	54	Pass
NVNT	ac40	5270	Ant	4500	-50.29	2	-	46.94	Peak	68.2	Pass
NVNT	ac40	5270	Ant	4500	-58.77	2	2.45	40.91	Average	54	Pass
NVNT	ac40	5270	Ant	4807.8	-41.63	2	-	55.6	Peak	68.2	Pass
NVNT	ac40	5270	Ant	4806.18	-51.43	2	2.45	48.25	Average	54	Pass
NVNT	ac40	5270	Ant	5150	-47.04	2	-	50.19	Peak	68.2	Pass
NVNT	ac40	5270	Ant	5150	-56.17	2	2.45	43.51	Average	54	Pass
NVNT	ac40	5310	Ant	5350	-33.63	2	-	63.6	Peak	68.2	Pass
NVNT	ac40	5310	Ant	5350	-49.87	2	2.4	49.76	Average	54	Pass
NVNT	ac40	5310	Ant	5460	-49.71	2	-	47.52	Peak	68.2	Pass
NVNT	ac40	5310	Ant	5460	-58.14	2	2.4	41.49	Average	54	Pass
NVNT	ac80	5290	Ant	4500	-50.21	2	-	47.02	Peak	68.2	Pass
NVNT	ac80	5290	Ant	4500	-59.16	2	3.01	41.08	Average	54	Pass
NVNT	ac80	5290	Ant	5138.58	-43.27	2	-	53.96	Peak	68.2	Pass
NVNT	ac80	5290	Ant	5142.93	-55.15	2	3.01	45.09	Average	54	Pass
NVNT	ac80	5290	Ant	5150	-44.84	2	-	52.39	Peak	68.2	Pass
NVNT	ac80	5290	Ant	5150	-55.37	2	3.01	44.87	Average	54	Pass
NVNT	ac80	5290	Ant	5350	-38.26	2	-	58.97	Peak	68.2	Pass
NVNT	ac80	5290	Ant	5350	-51.54	2	3.01	48.7	Average	54	Pass
NVNT	ac80	5290	Ant	5357.68	-36.21	2	-	61.02	Peak	68.2	Pass
NVNT	ac80	5290	Ant	5354.3	-50.26	2	3.01	49.98	Average	54	Pass
NVNT	ac80	5290	Ant	5460	-50.11	2	-	47.12	Peak	68.2	Pass
NVNT	ac80	5290	Ant	5460	-57.92	2	3.01	42.32	Average	54	Pass



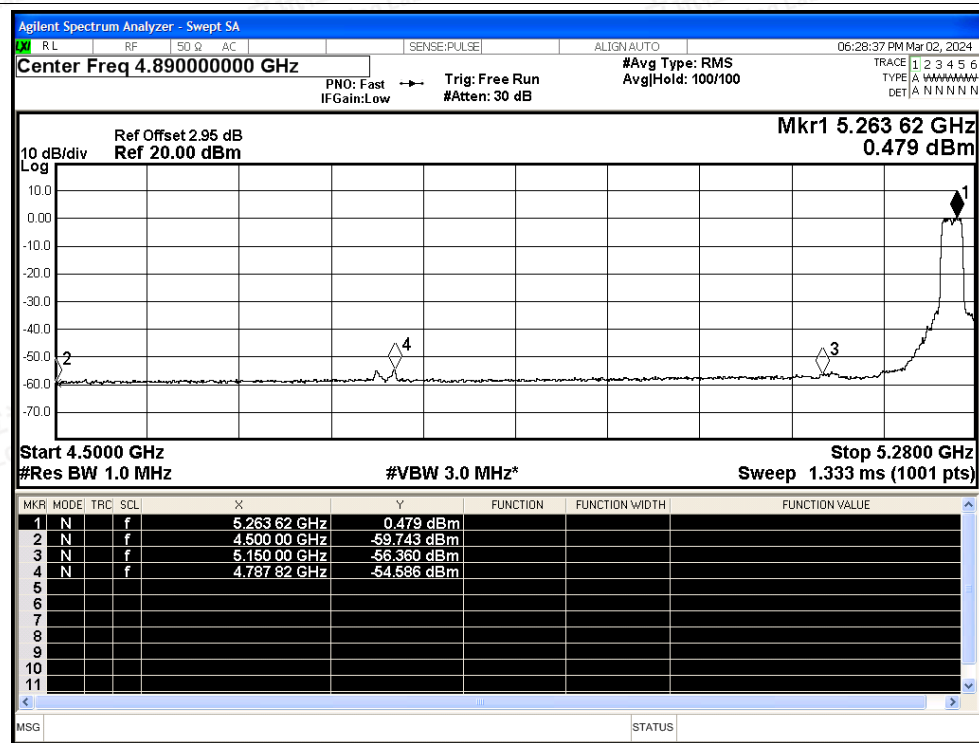


Test Graphs

Restrict Band NVNT a 5260MHz Ant Peak



Restrict Band NVNT a 5260MHz Ant Average



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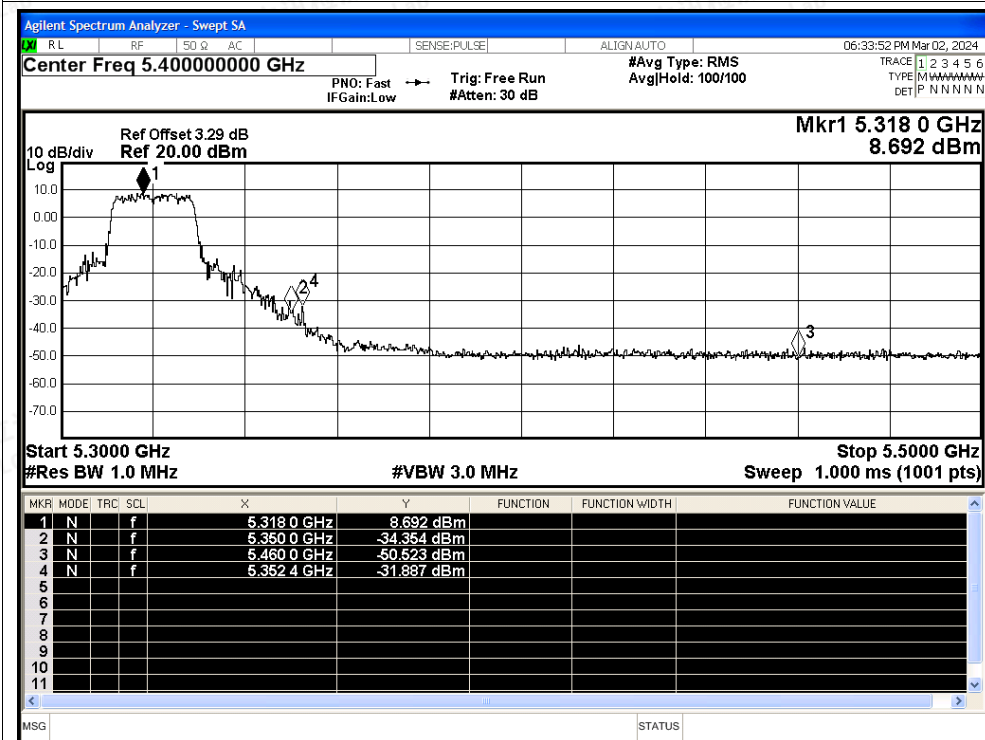
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

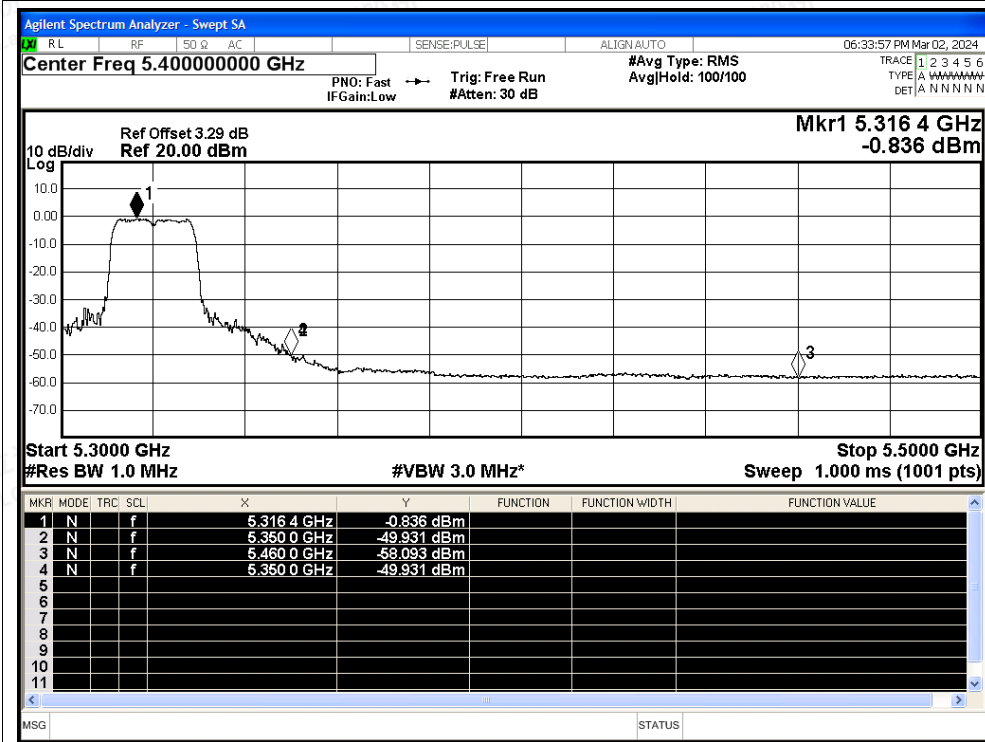
Scan code to check authenticity



Restrict Band NVNT a 5320MHz Ant Peak



Restrict Band NVNT a 5320MHz Ant Average

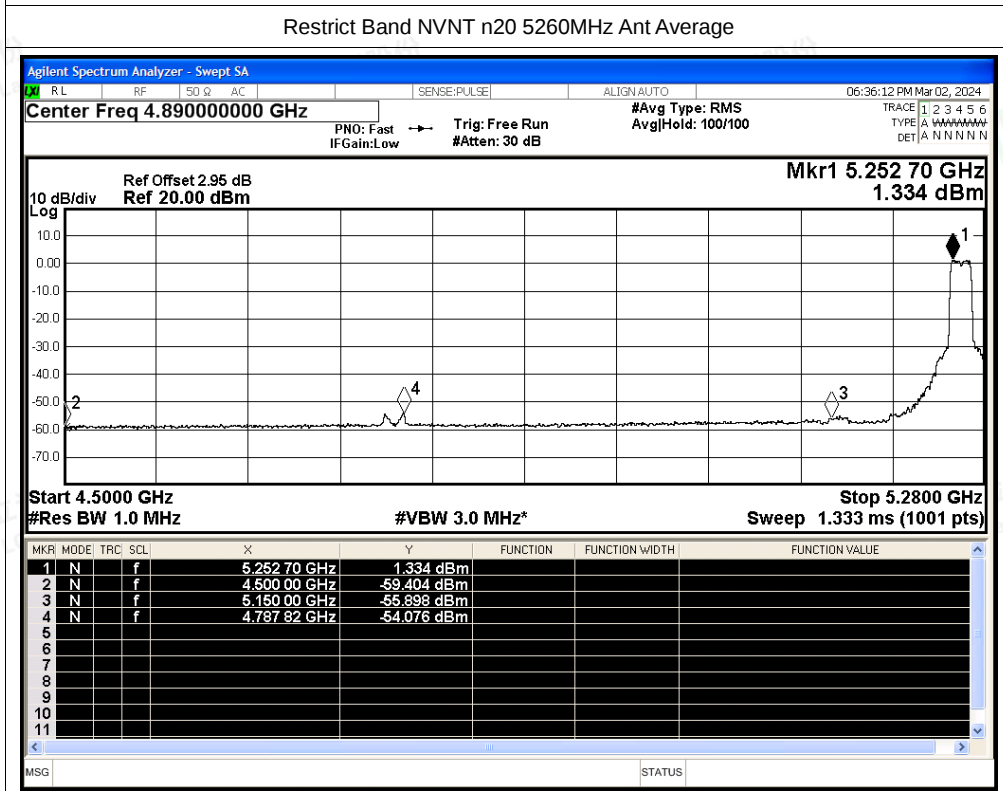
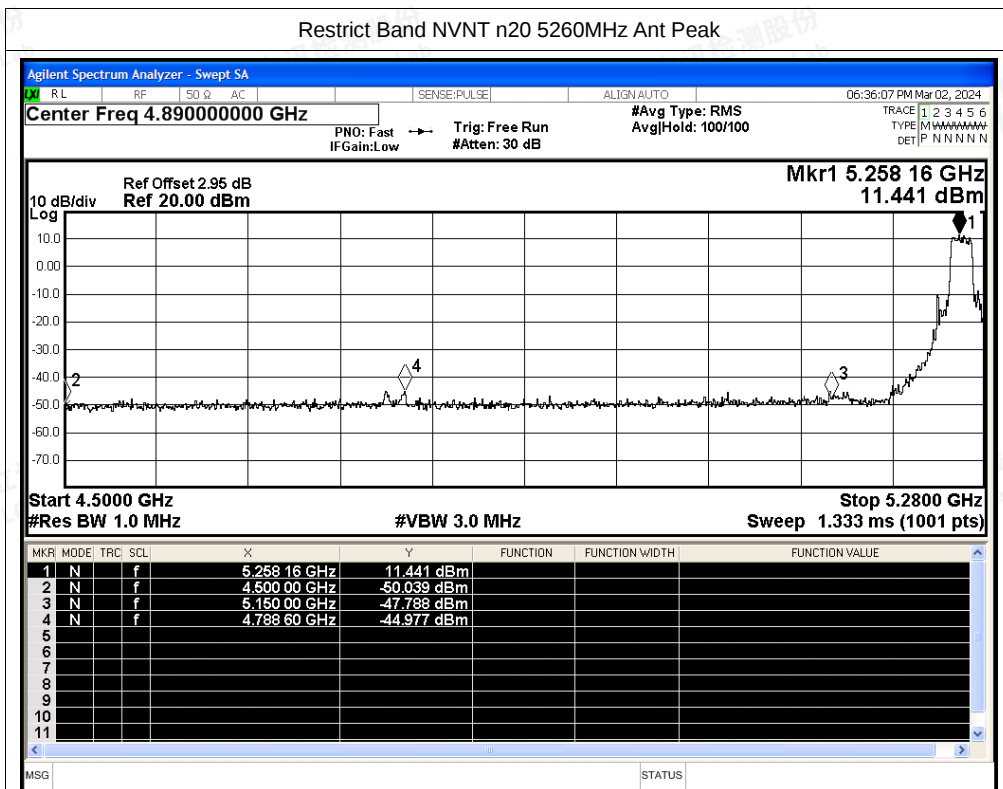


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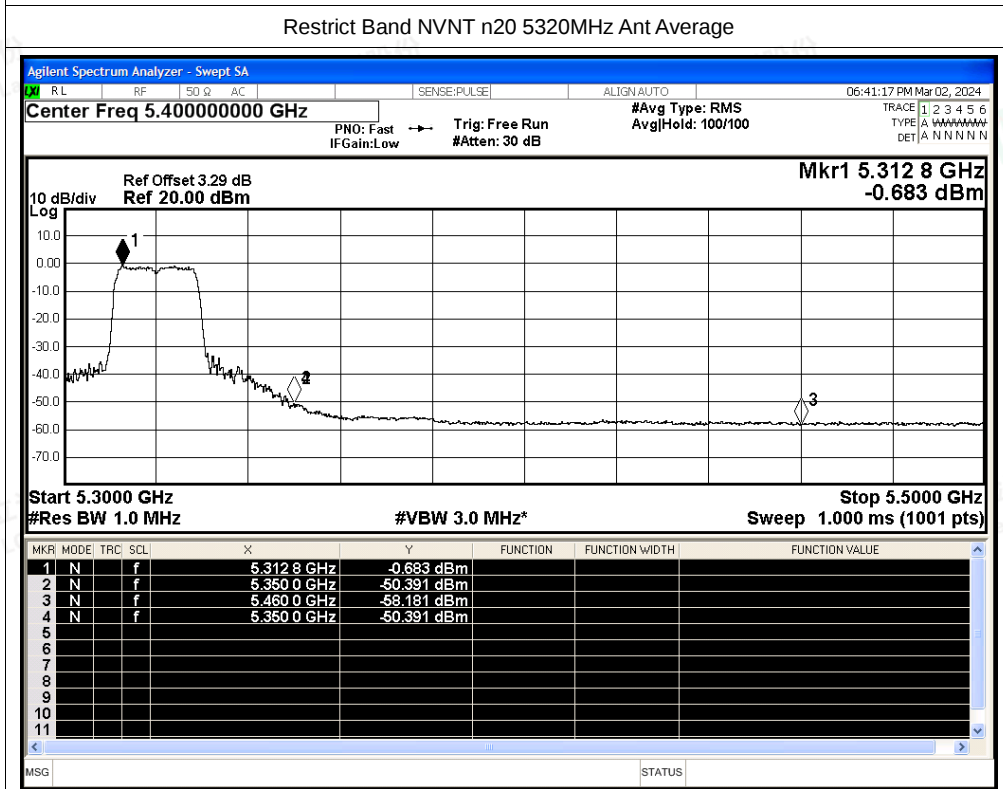
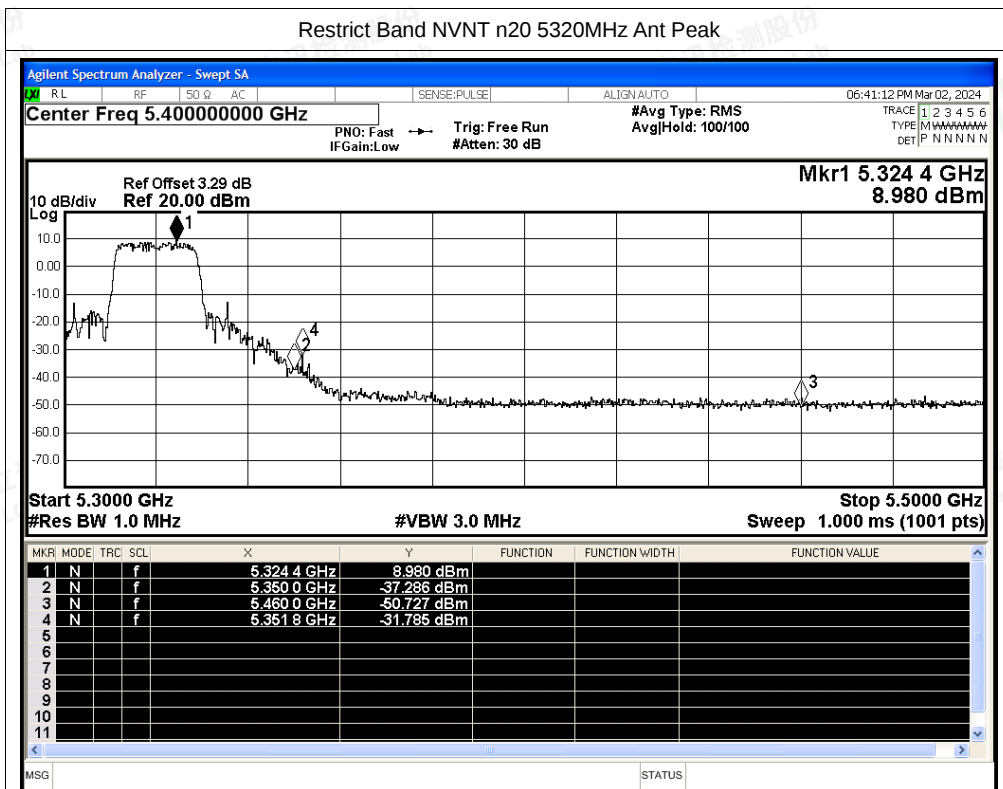


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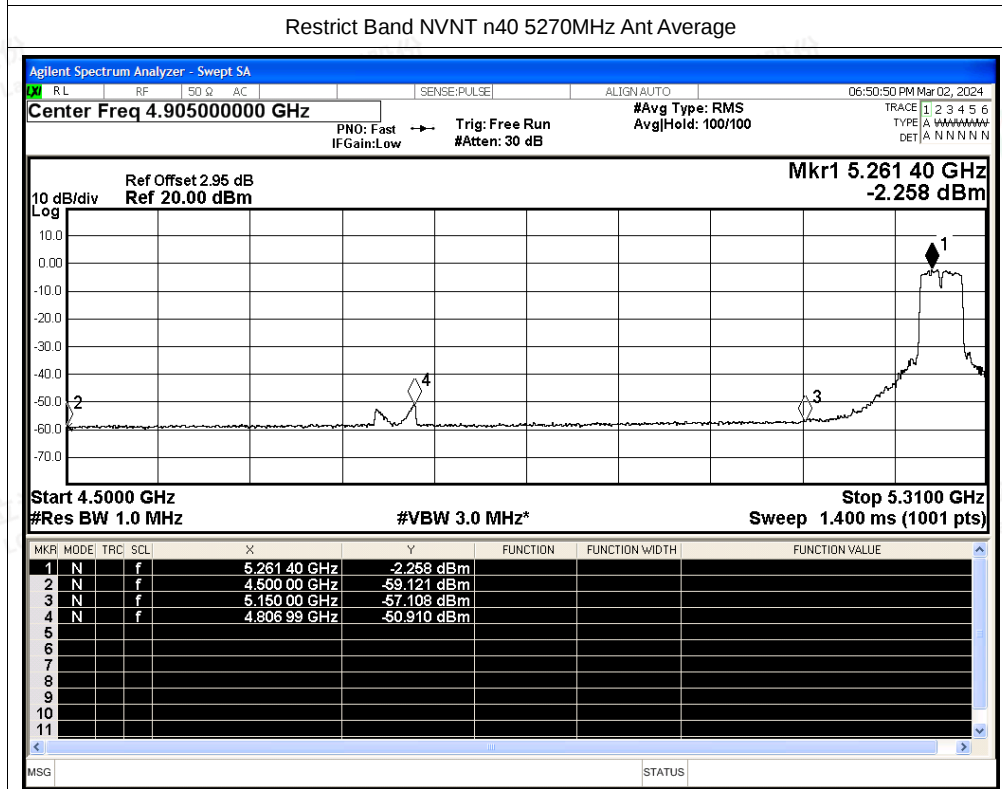
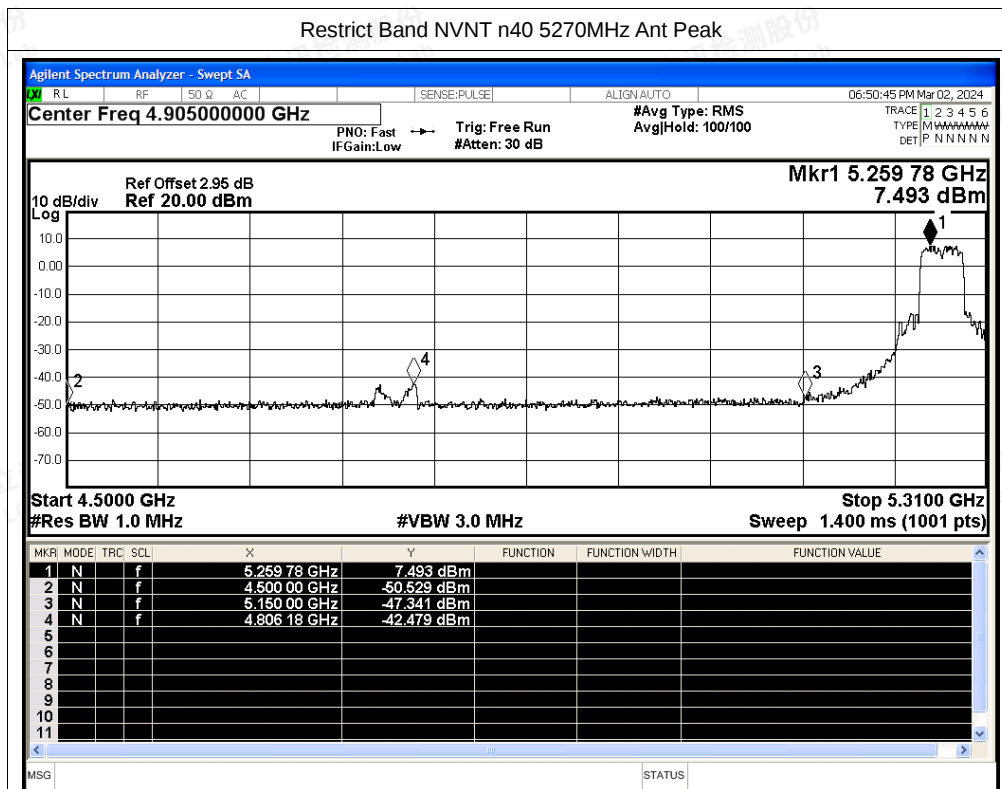


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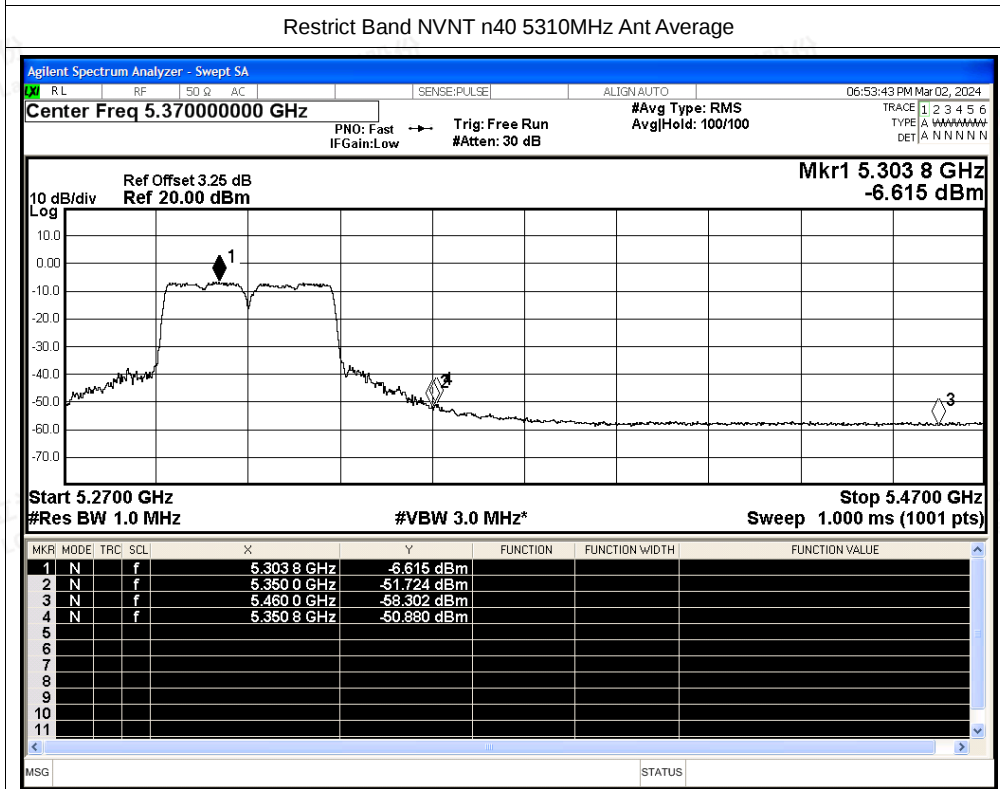
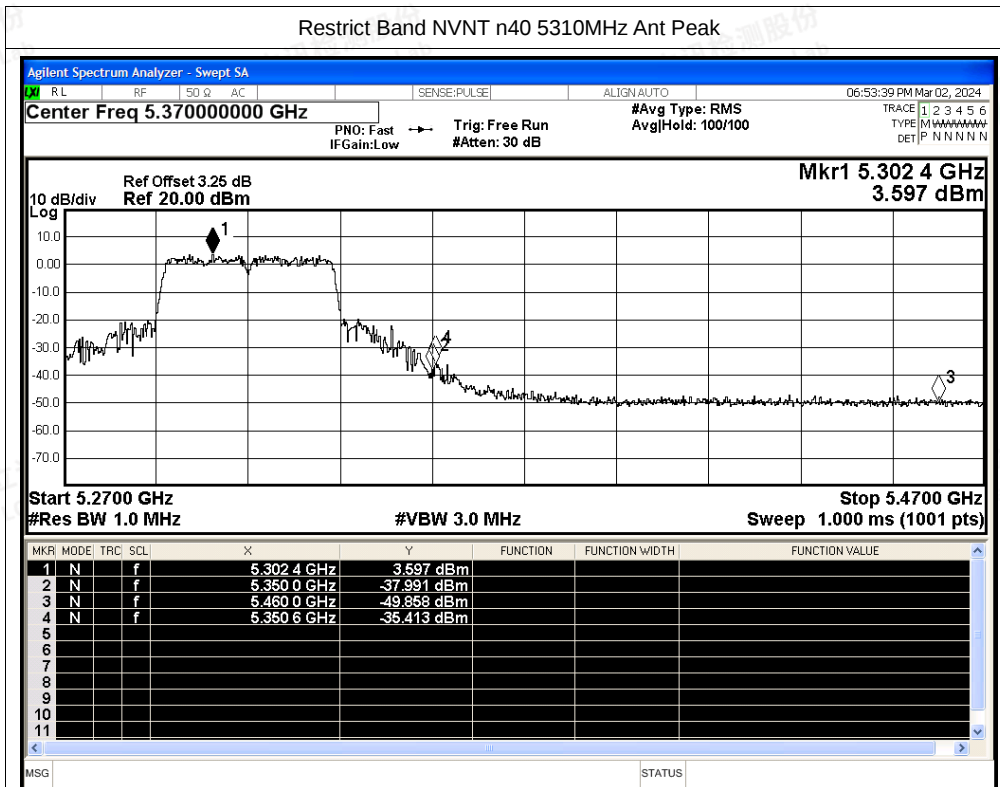


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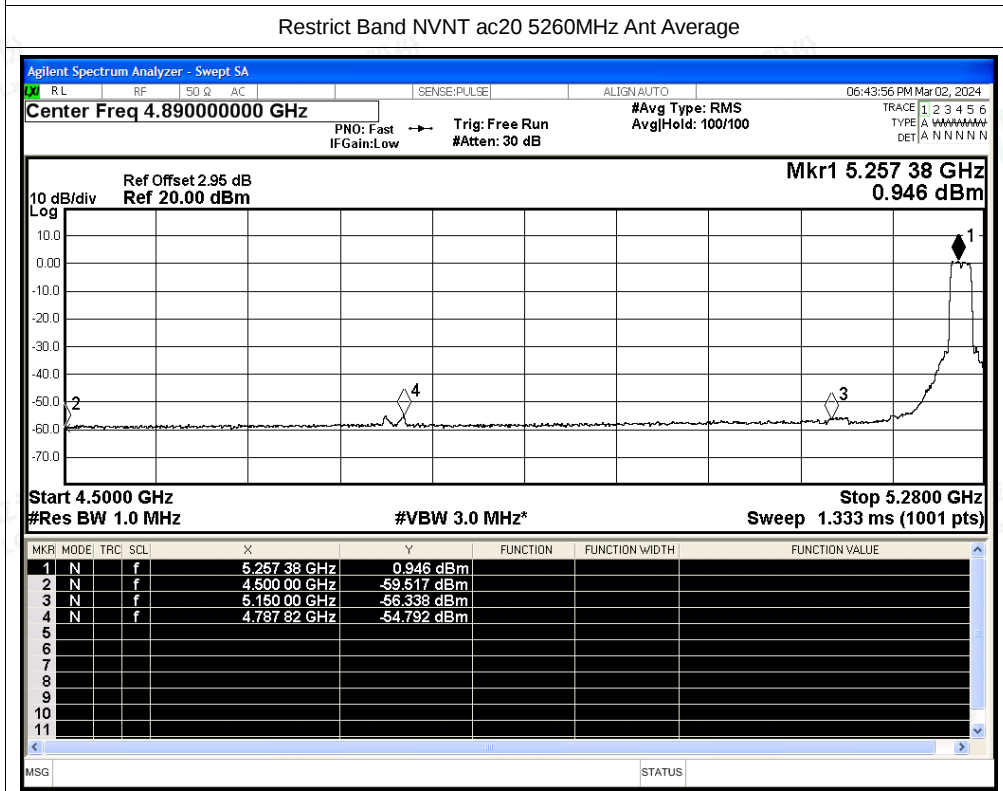
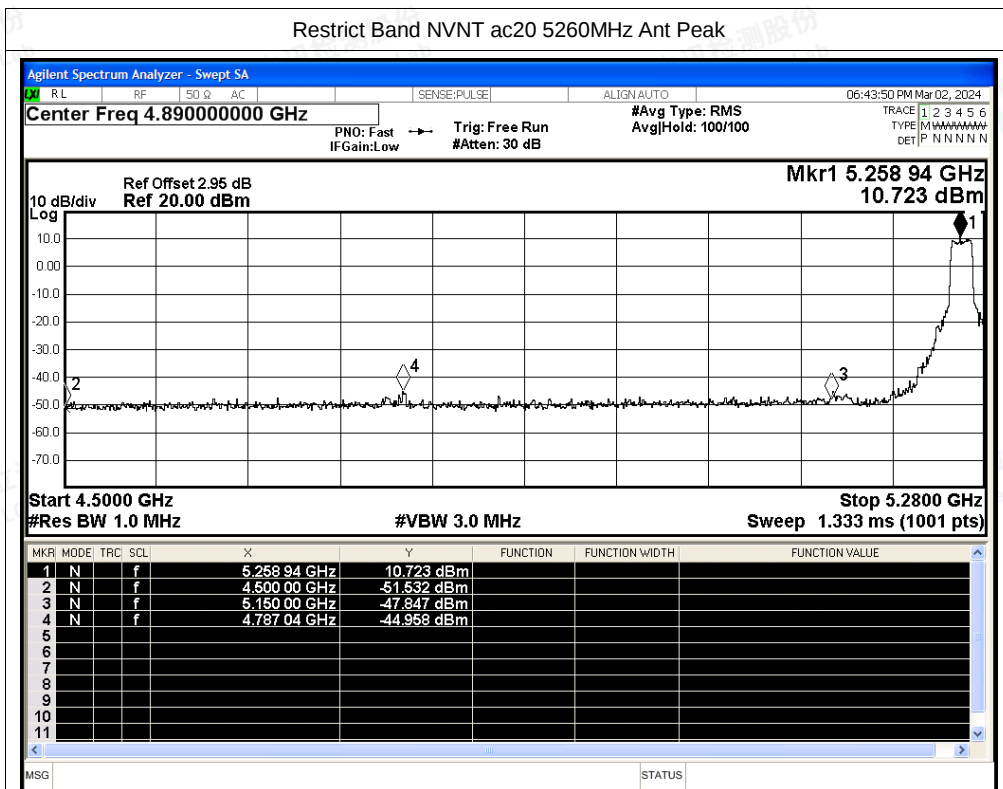


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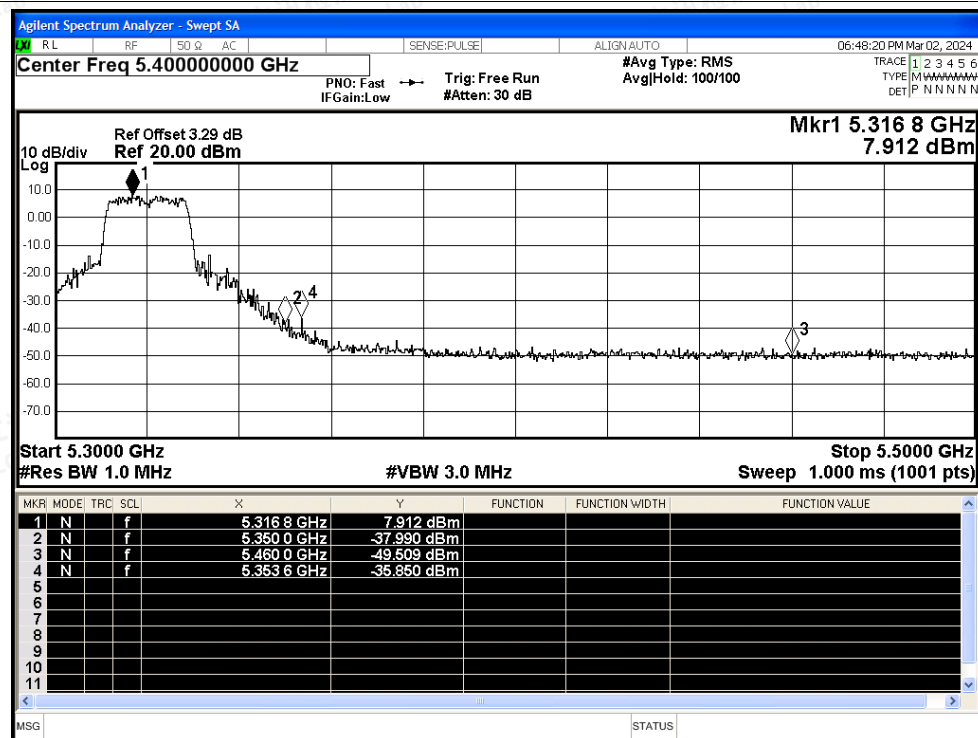
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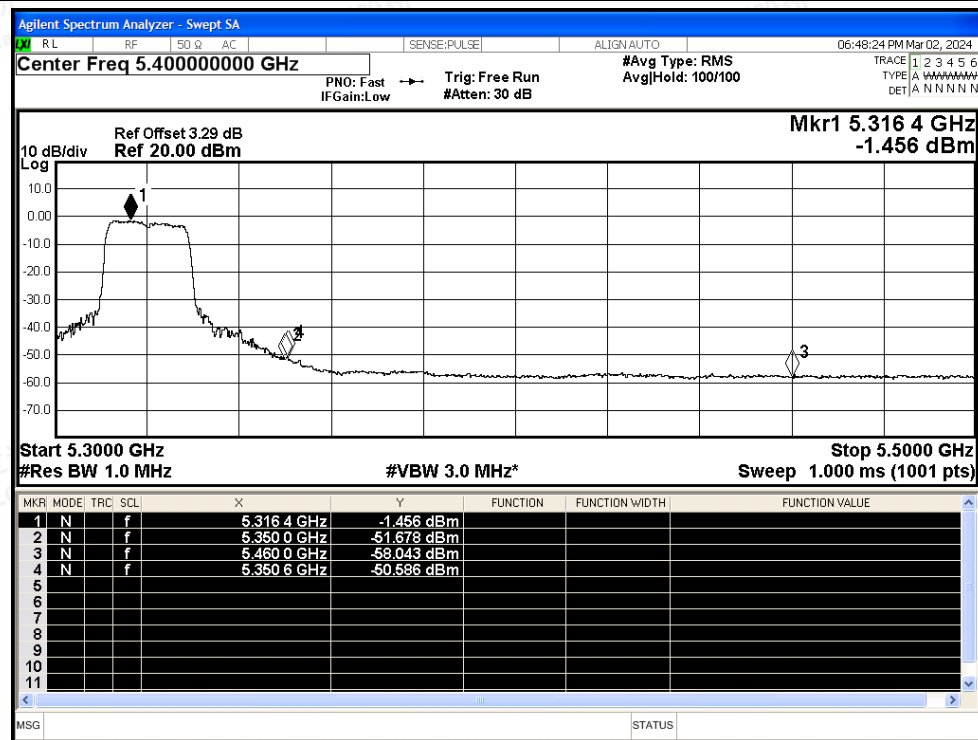
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Restrict Band NVNT ac20 5320MHz Ant Peak



Restrict Band NVNT ac20 5320MHz Ant Average



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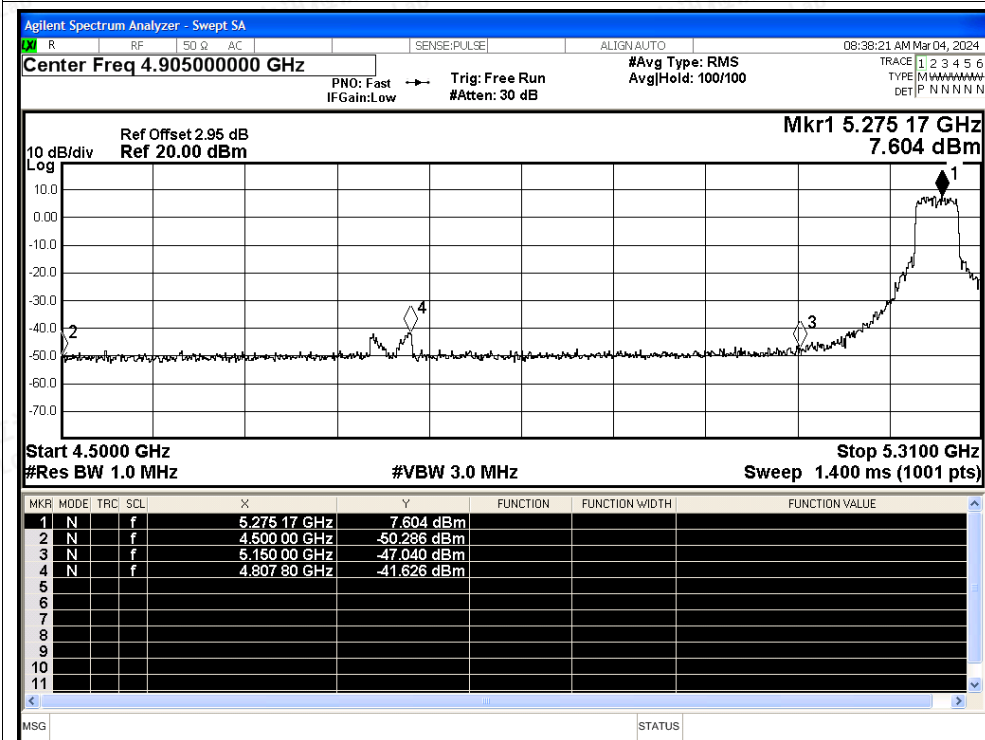
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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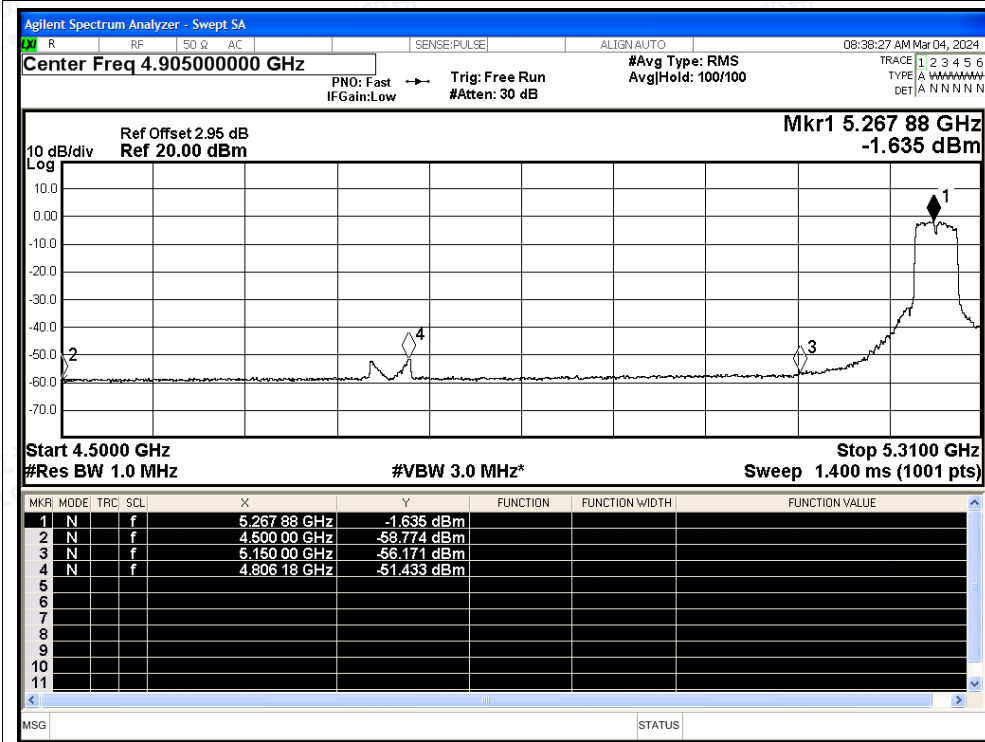
Scan code to check authenticity



Restrict Band NVNT ac40 5270MHz Ant Peak



Restrict Band NVNT ac40 5270MHz Ant Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

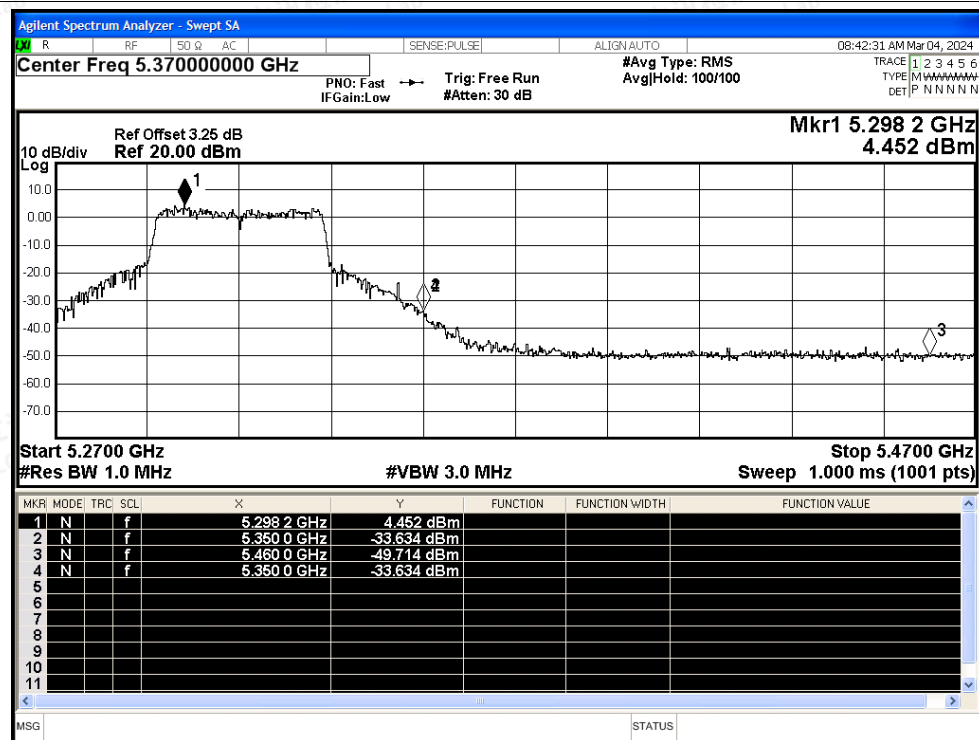
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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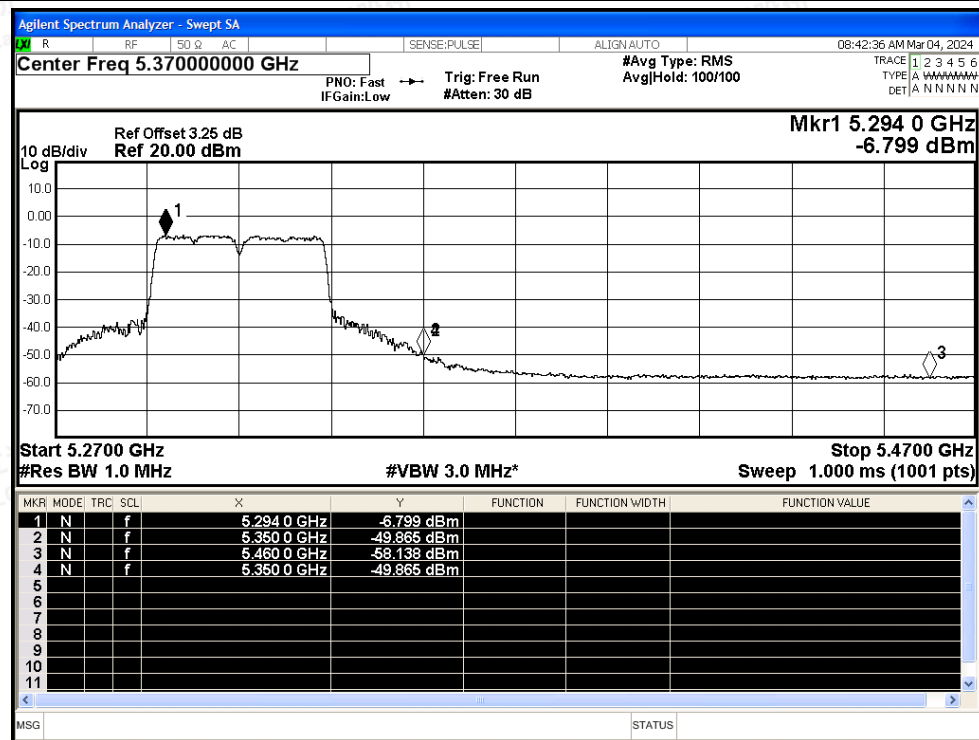
Scan code to check authenticity



Restrict Band NVNT ac40 5310MHz Ant Peak



Restrict Band NVNT ac40 5310MHz Ant Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

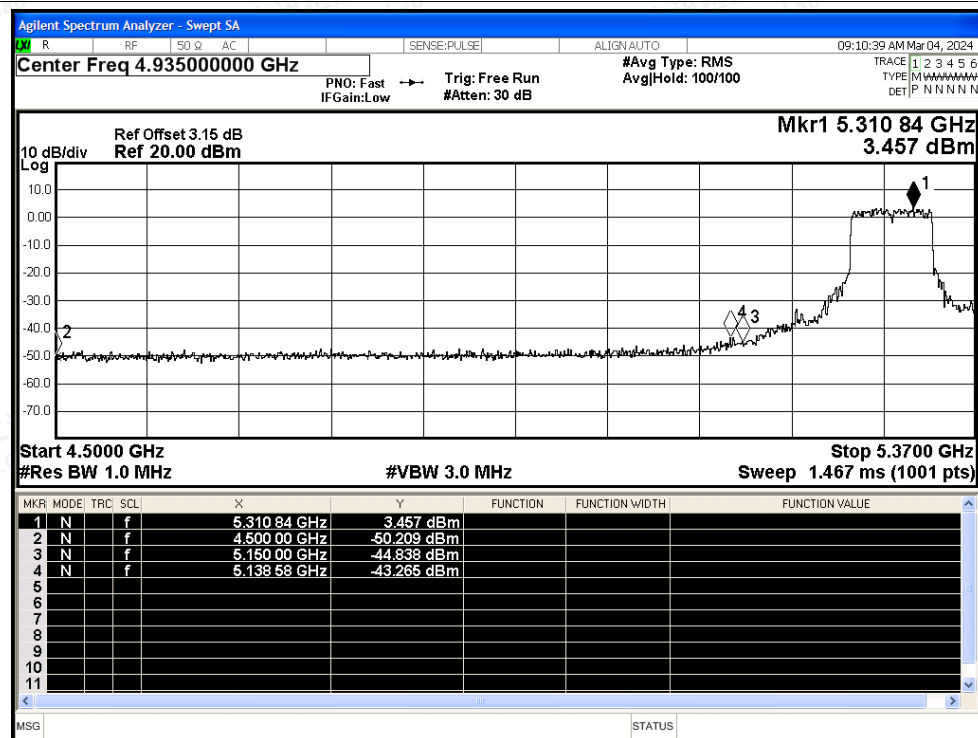
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

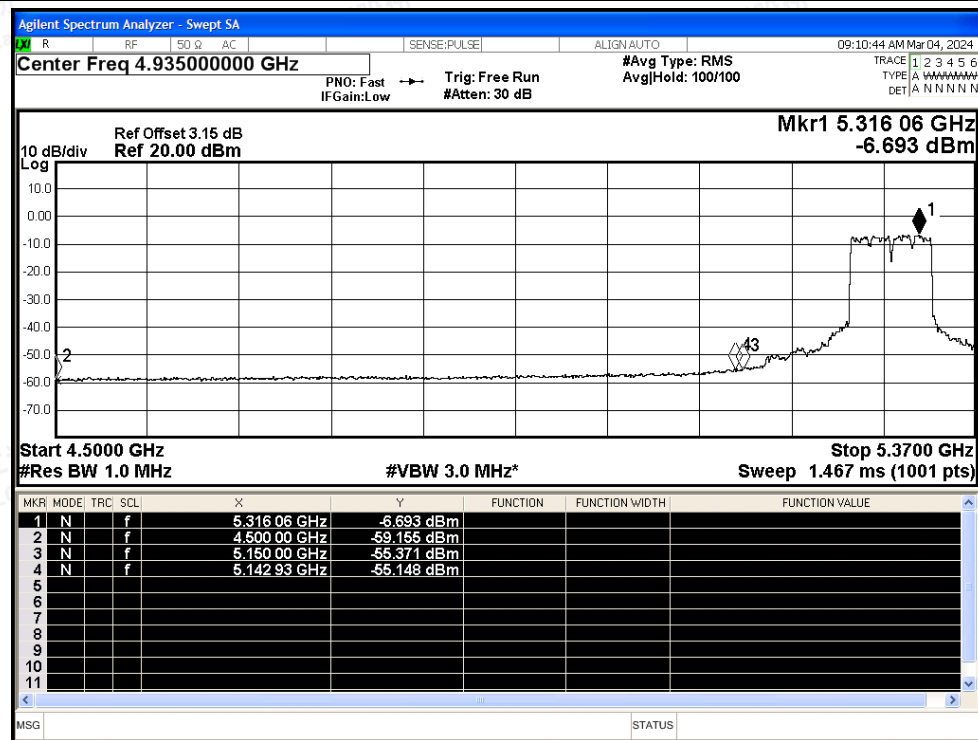
Scan code to check authenticity



Restrict Band NVNT ac80 5290MHz Ant Peak



Restrict Band NVNT ac80 5290MHz Ant Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

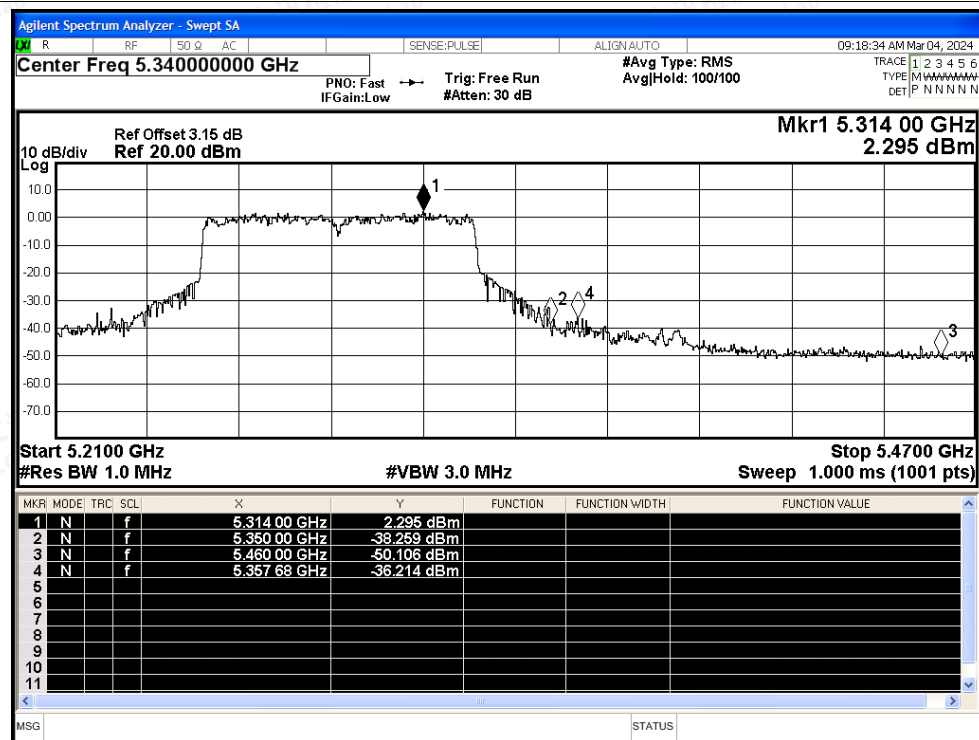
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

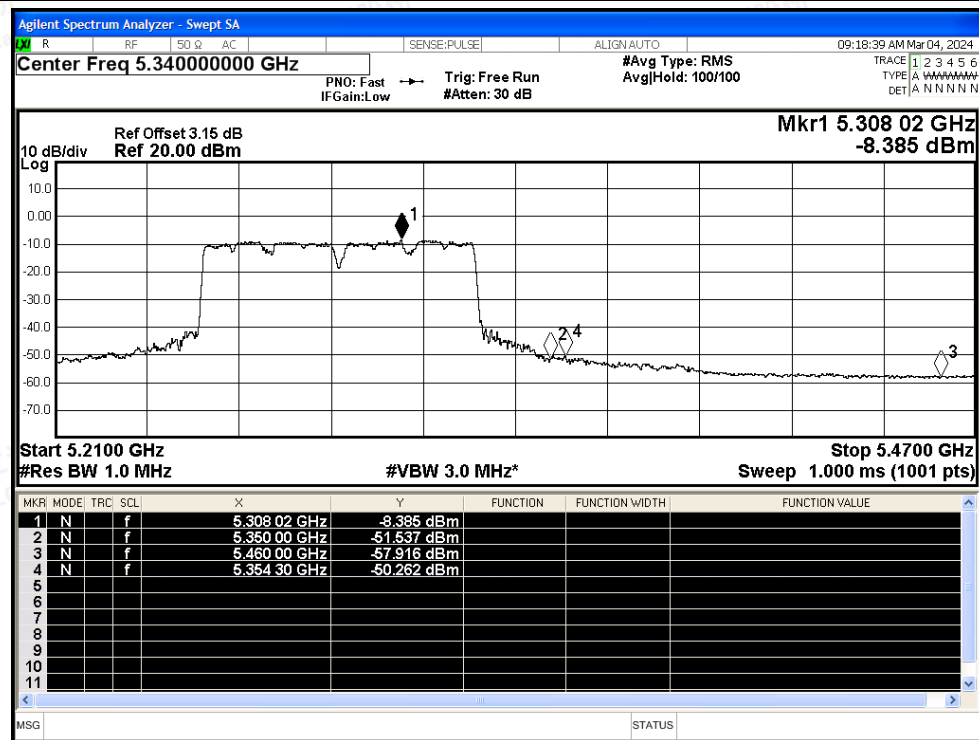
Scan code to check authenticity



Restrict Band NVNT ac80 5290MHz Ant Peak



Restrict Band NVNT ac80 5290MHz Ant Average



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C.5 Frequency Stability

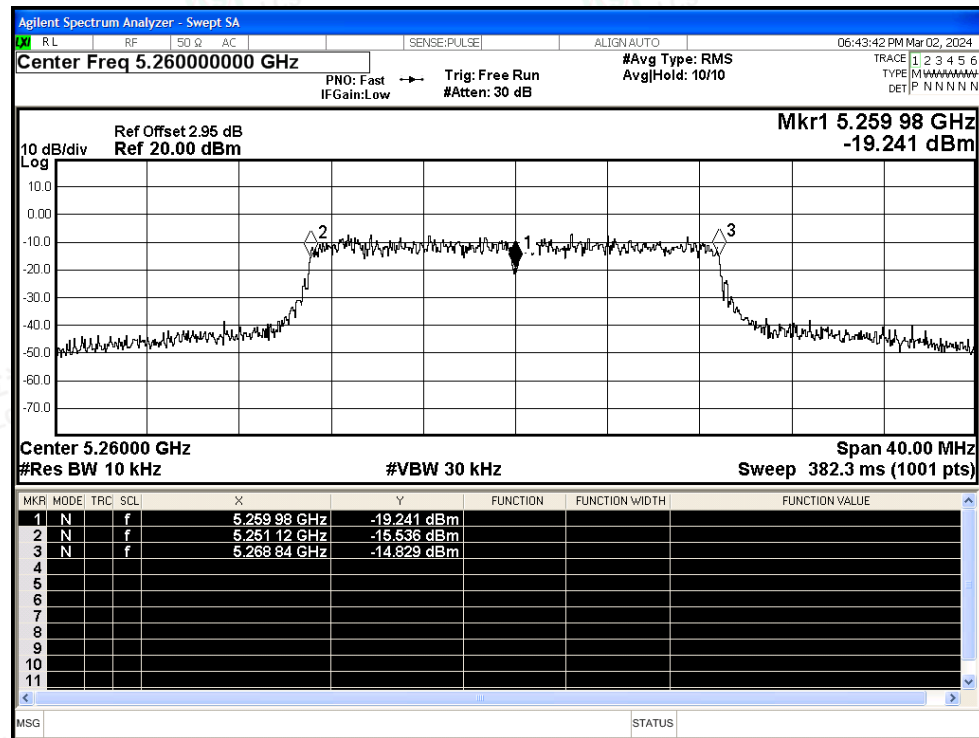
Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	ac20	5260	Ant	5259.98	-20000	-3.8	25	Pass
NVNT	ac20	5300	Ant	5299.98	-20000	-3.77	25	Pass
NVNT	ac20	5320	Ant	5319.98	-20000	-3.76	25	Pass
NVNT	ac40	5270	Ant	5270	0	0	25	Pass
NVNT	ac40	5310	Ant	5310.04	40000	7.53	25	Pass
NVNT	ac80	5290	Ant	5290	0	0	25	Pass



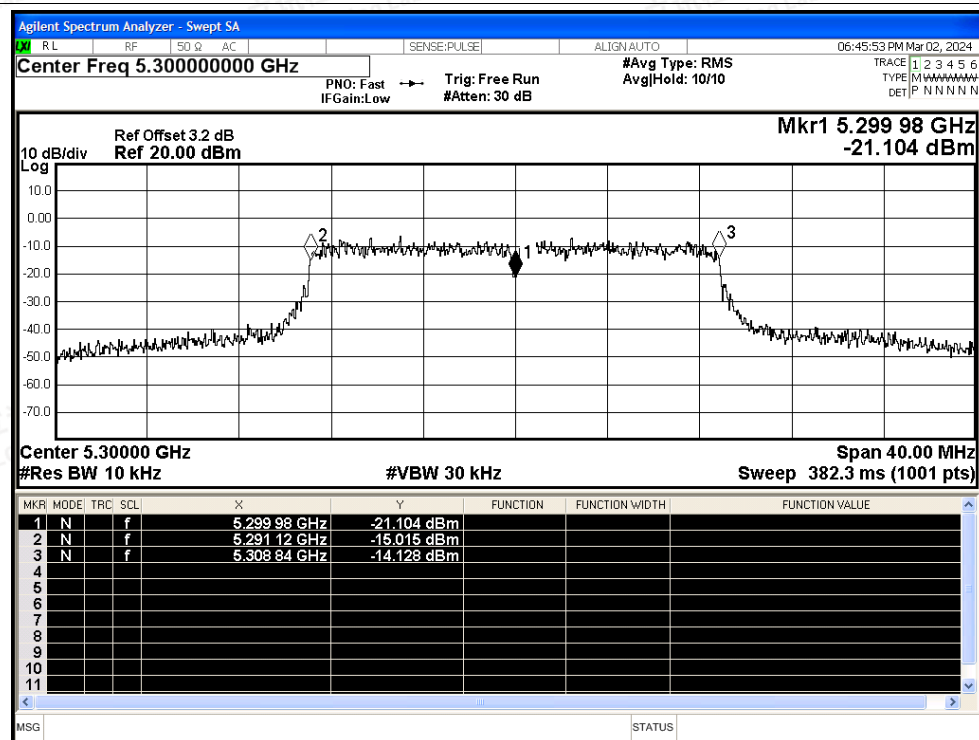


Test Graphs

Freq. Stability NVNT ac20 5260MHz Ant



Freq. Stability NVNT ac20 5300MHz Ant



Shenzhen LCS Compliance Testing Laboratory Ltd.

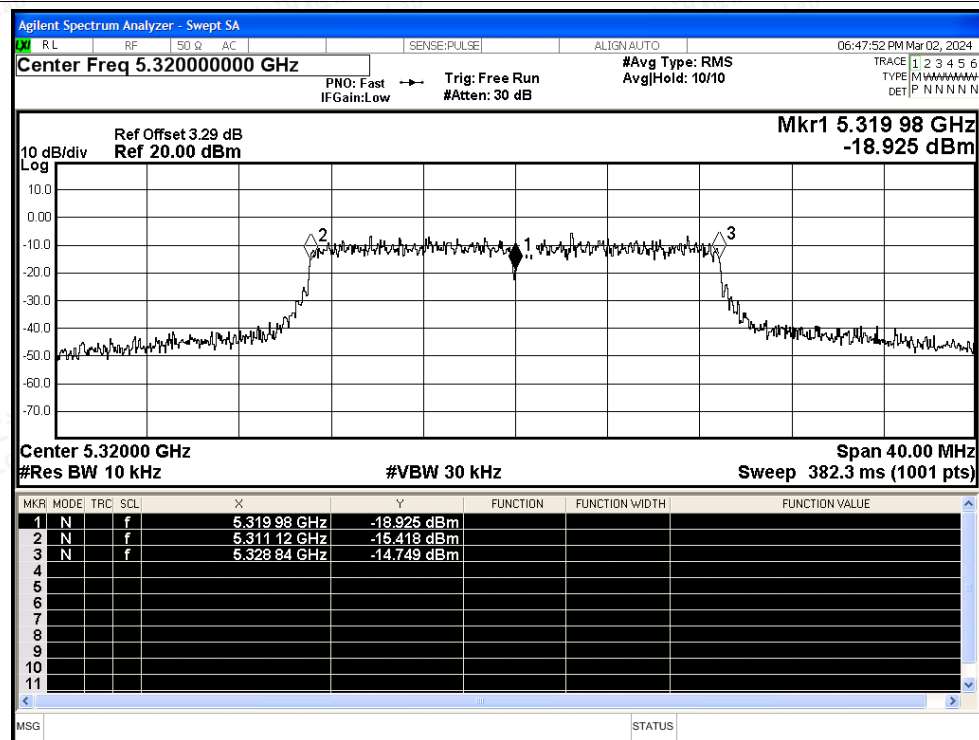
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

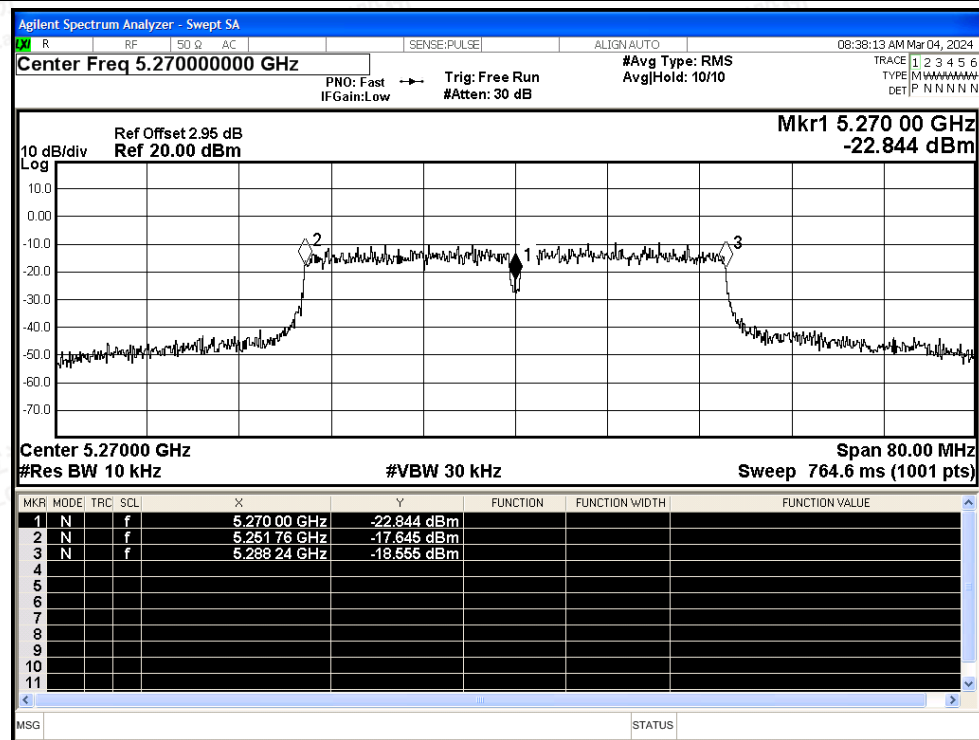
Scan code to check authenticity



Freq. Stability NVNT ac20 5320MHz Ant



Freq. Stability NVNT ac40 5270MHz Ant



Shenzhen LCS Compliance Testing Laboratory Ltd.

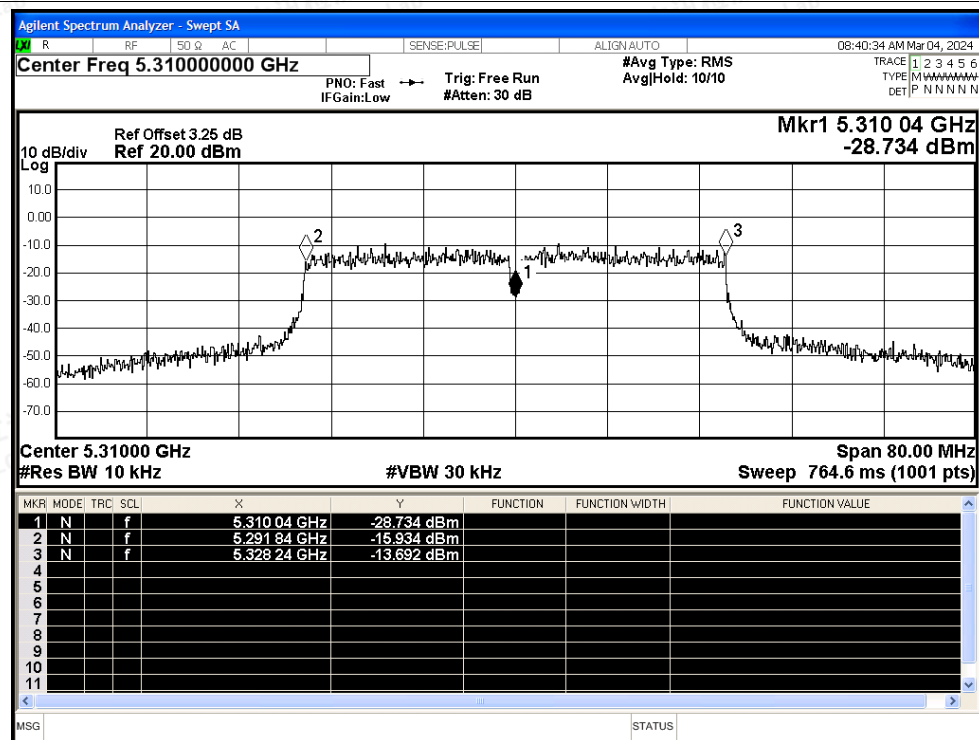
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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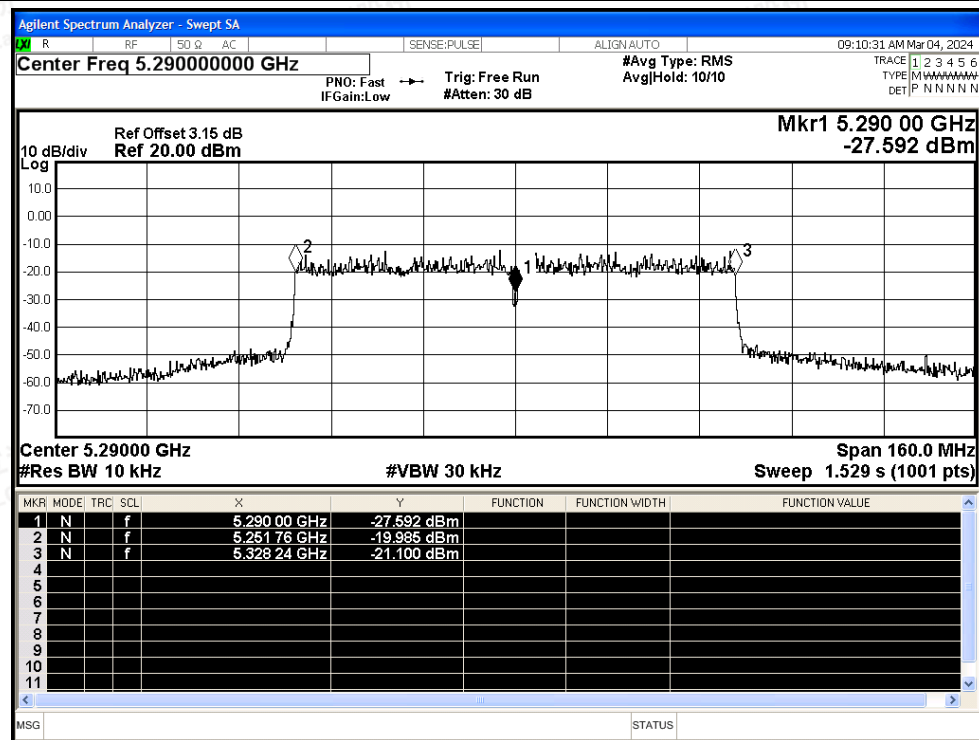
Scan code to check authenticity



Freq. Stability NVNT ac40 5310MHz Ant



Freq. Stability NVNT ac80 5290MHz Ant



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C.6 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5260	Ant	66.13	1.8	8.13
NVNT	a	5300	Ant	66.13	1.8	8.13
NVNT	a	5320	Ant	66.13	1.8	8.13
NVNT	n20	5260	Ant	65.17	1.86	8.62
NVNT	n20	5300	Ant	65.17	1.86	8.62
NVNT	n20	5320	Ant	64.61	1.9	8.7
NVNT	n40	5270	Ant	55.8	2.53	12.99
NVNT	n40	5310	Ant	55.07	2.59	13.16
NVNT	ac20	5260	Ant	66.13	1.8	8.13
NVNT	ac20	5300	Ant	66.13	1.8	8.13
NVNT	ac20	5320	Ant	66.13	1.8	8.13
NVNT	ac40	5270	Ant	56.85	2.45	12.05
NVNT	ac40	5310	Ant	57.53	2.4	11.9
NVNT	ac80	5290	Ant	50	3.01	16.13



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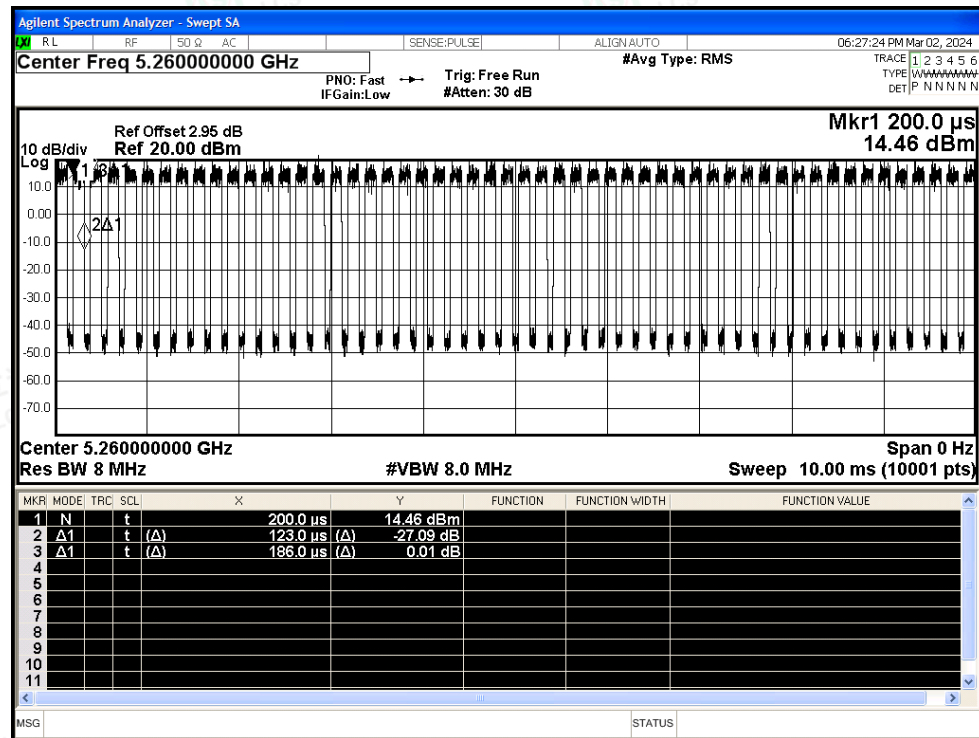
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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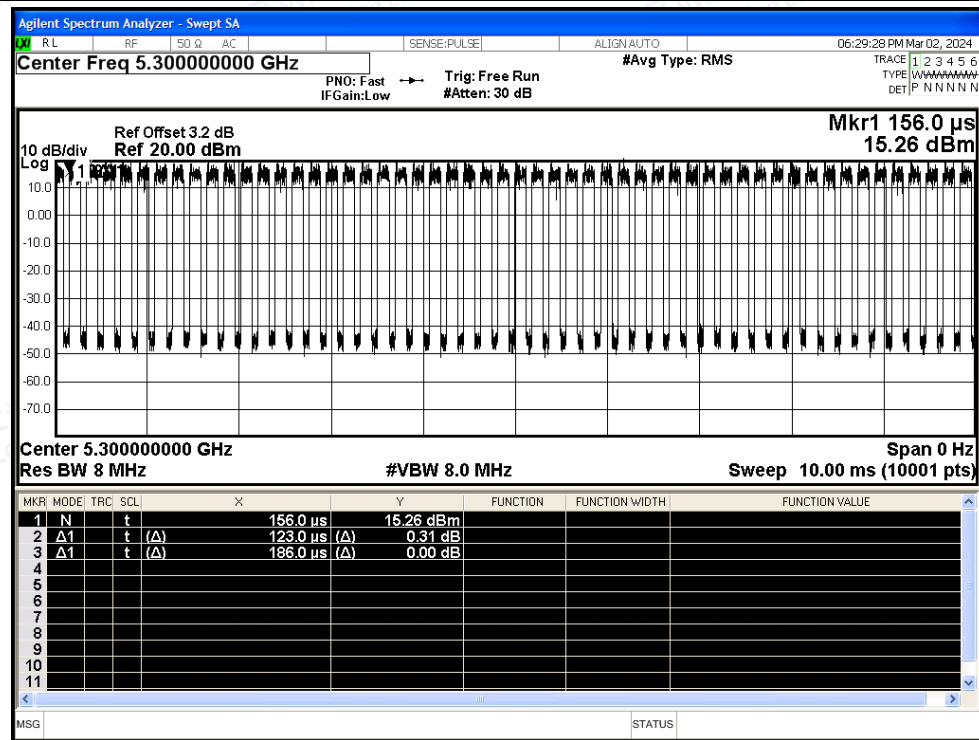


Test Graphs

Duty Cycle NVNT a 5260MHz Ant



Duty Cycle NVNT a 5300MHz Ant

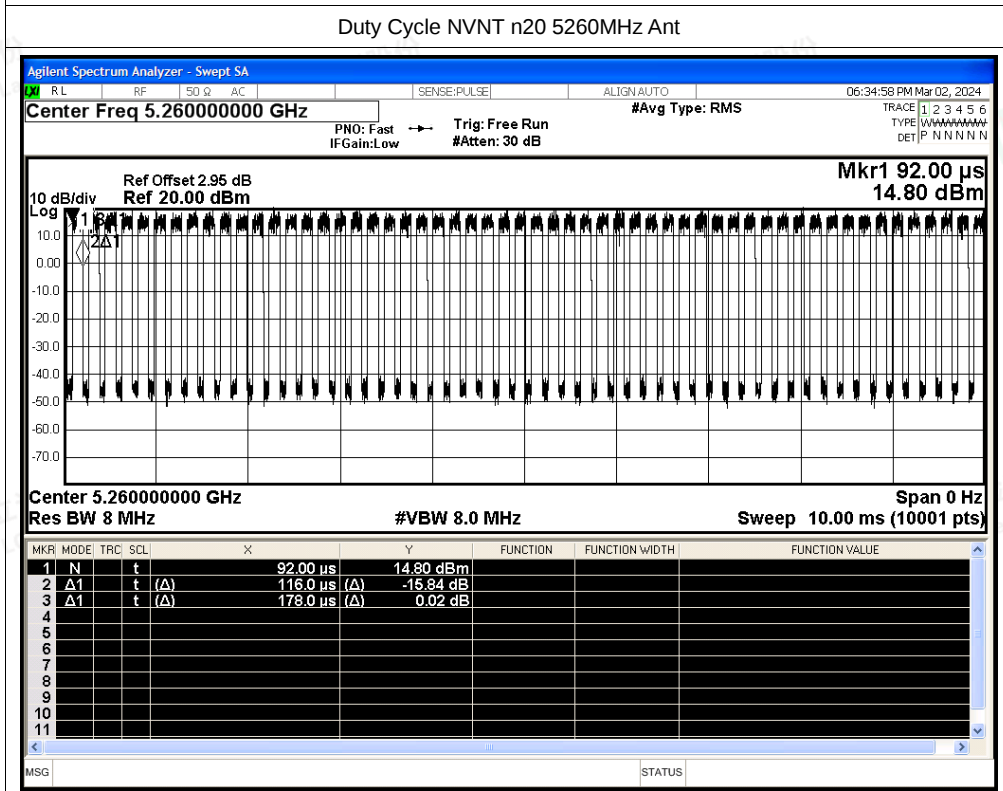
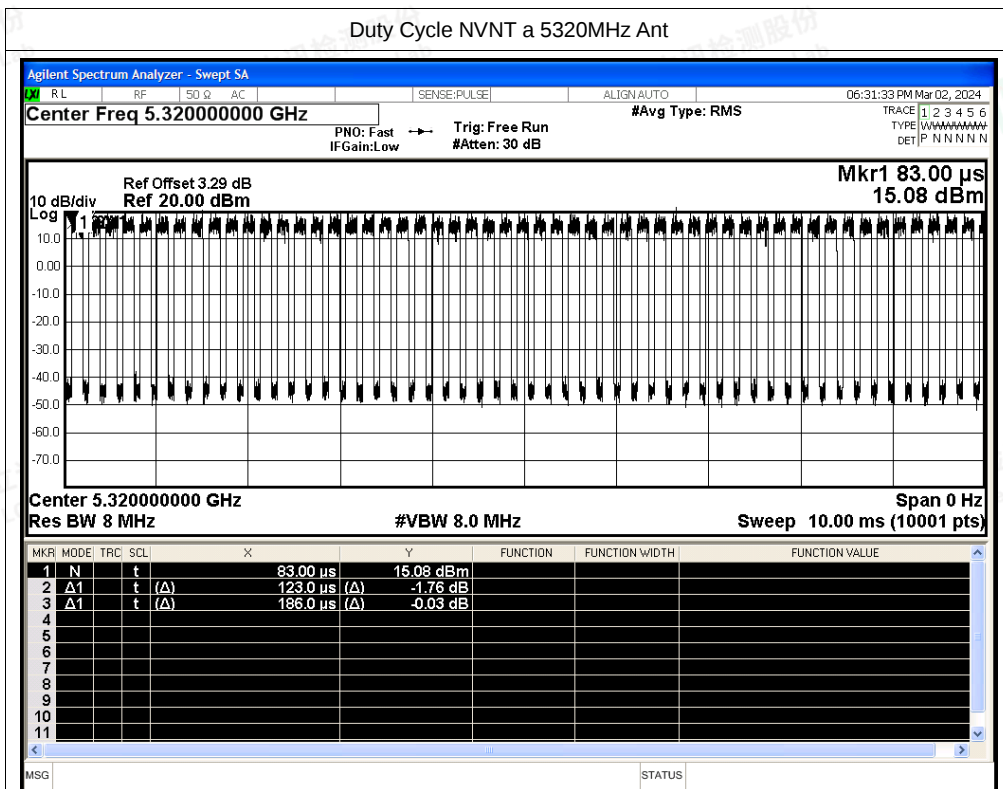


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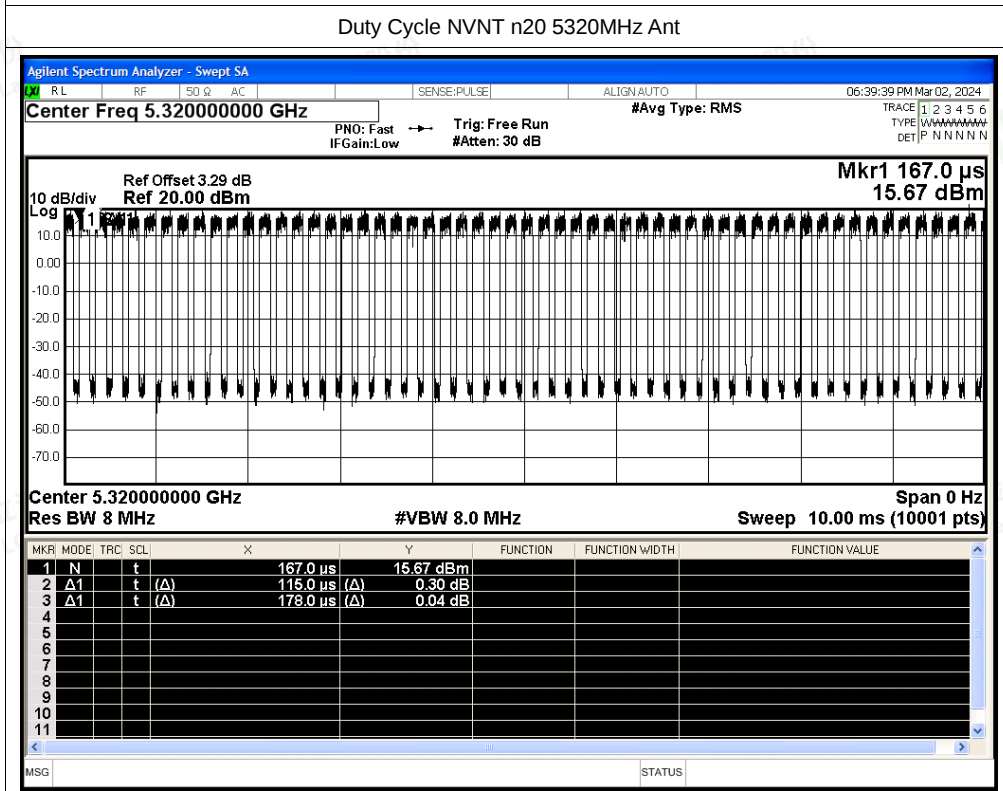
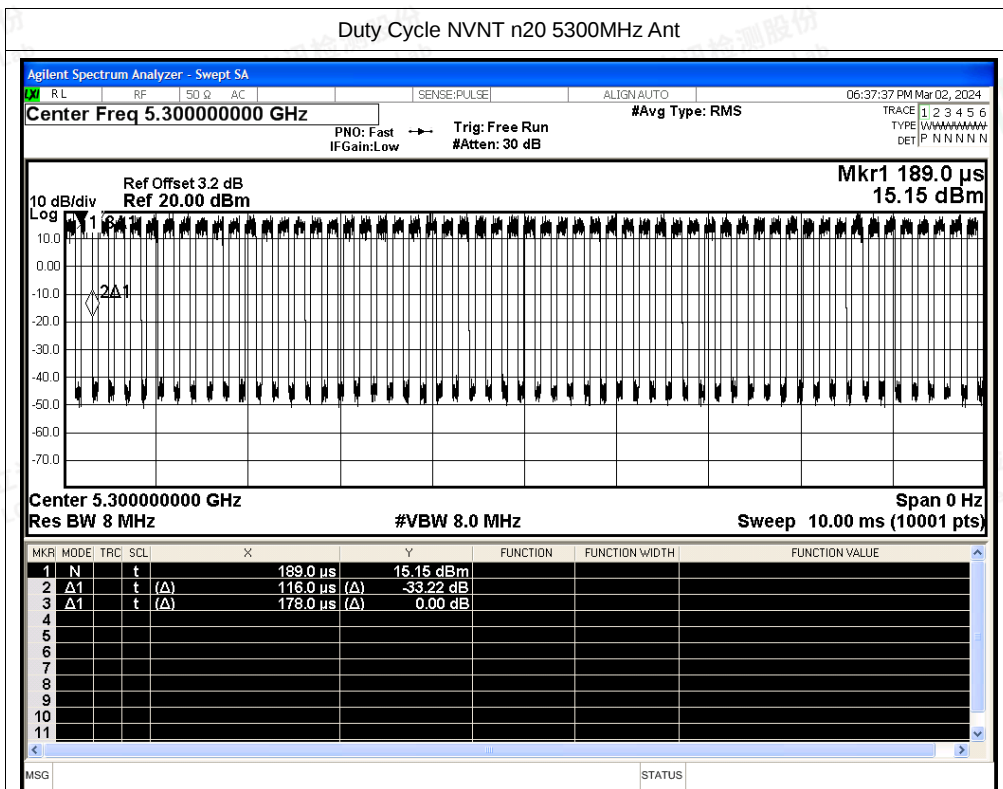


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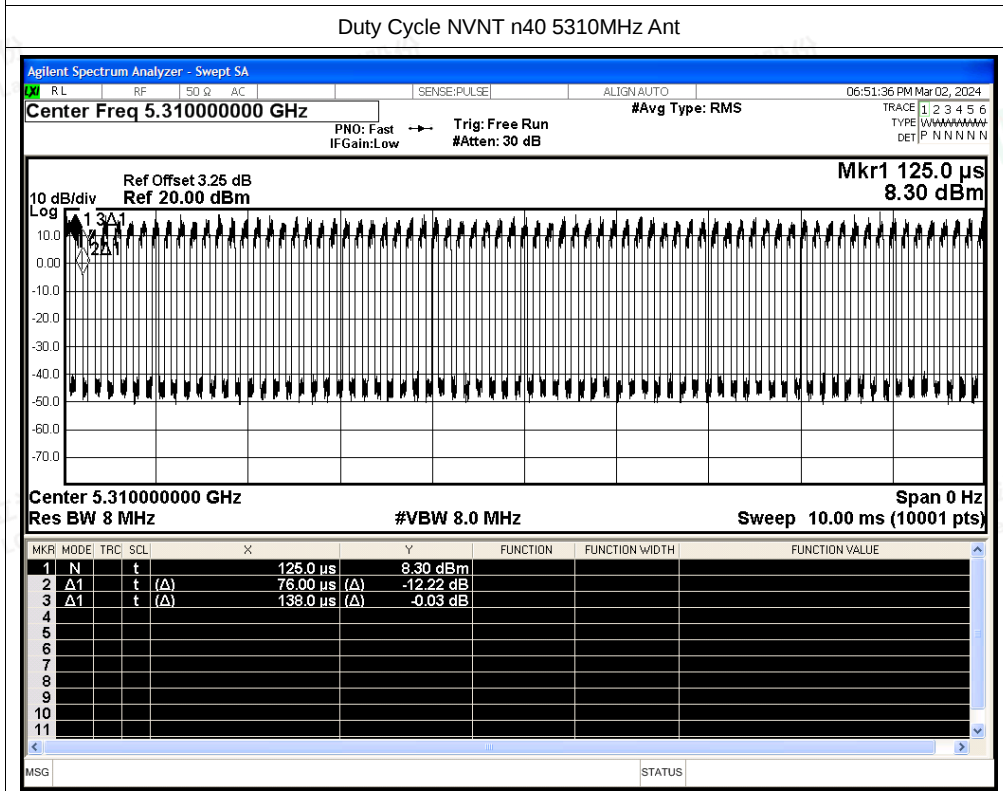
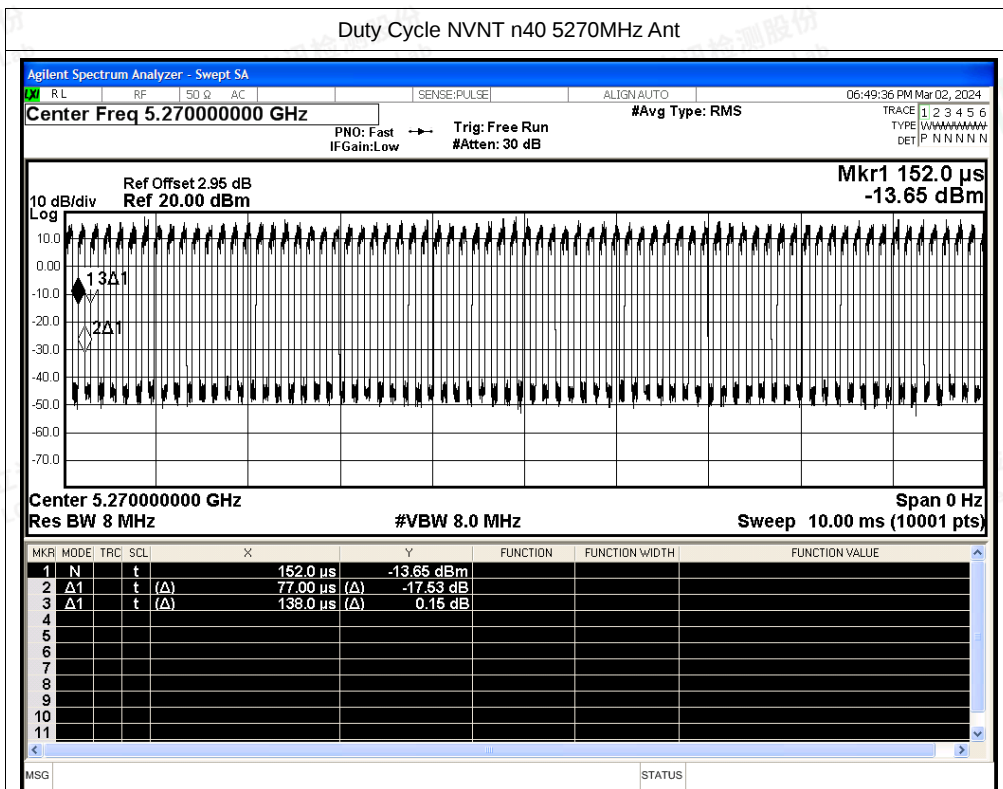


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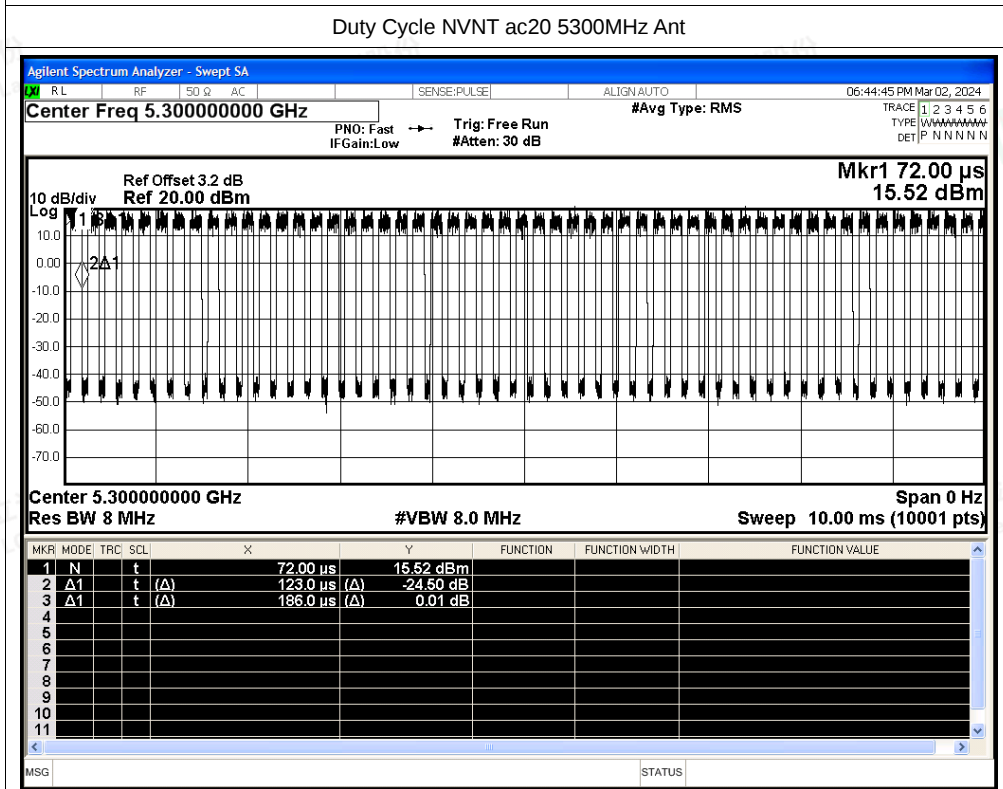
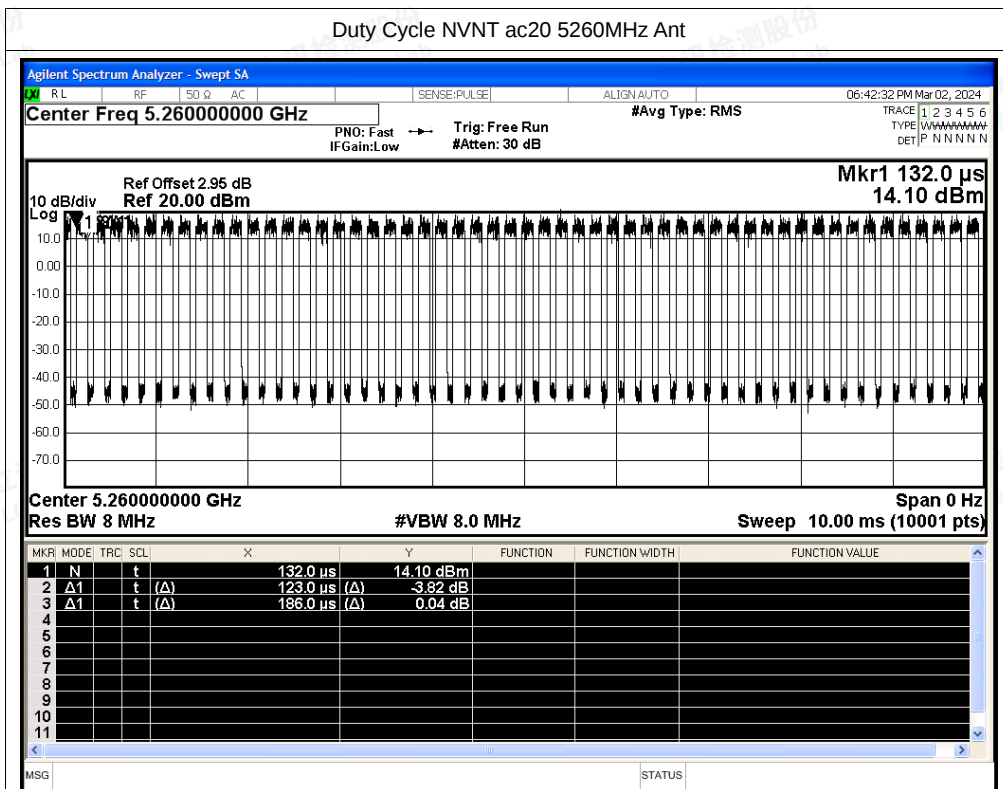


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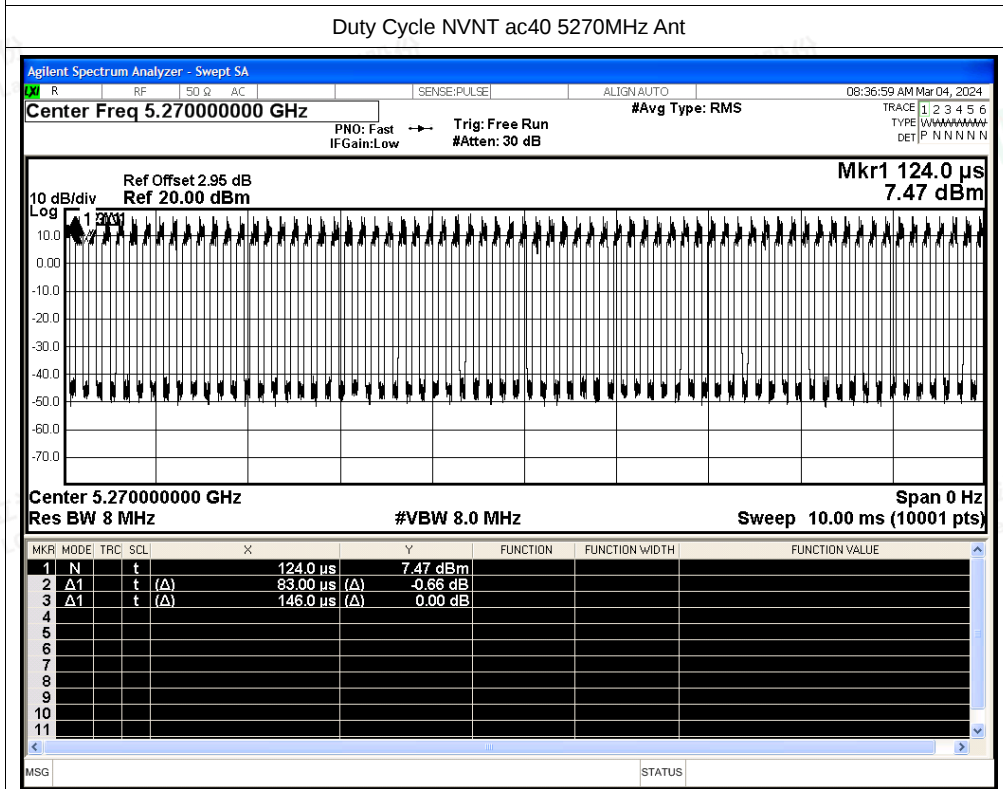
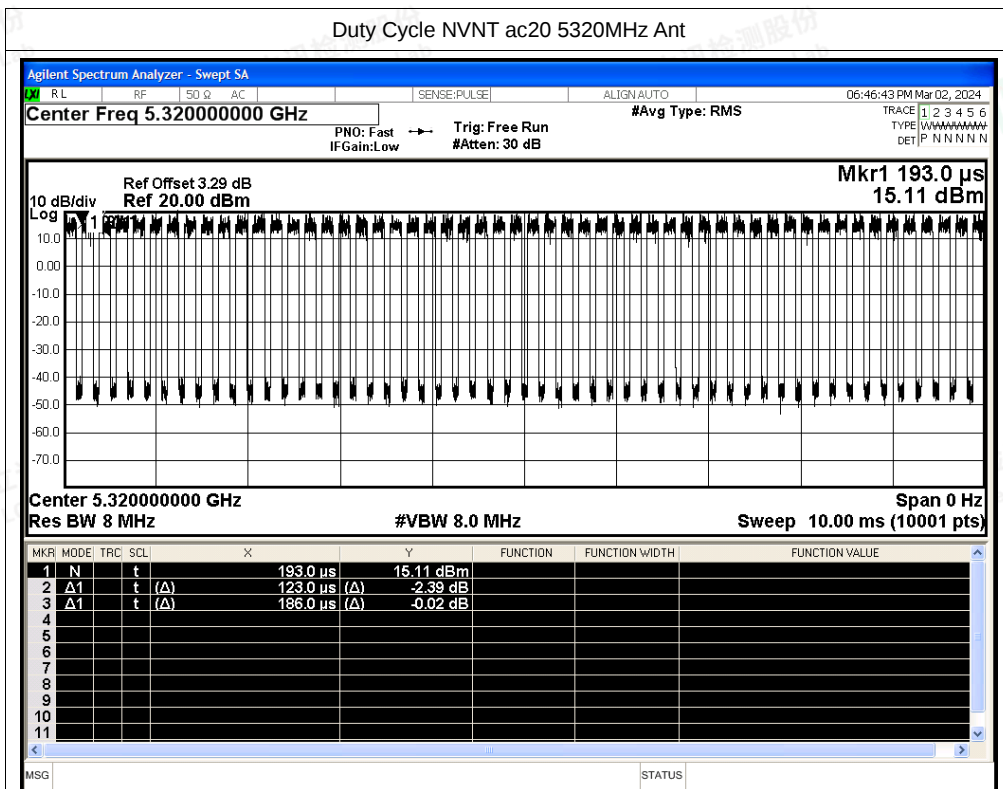


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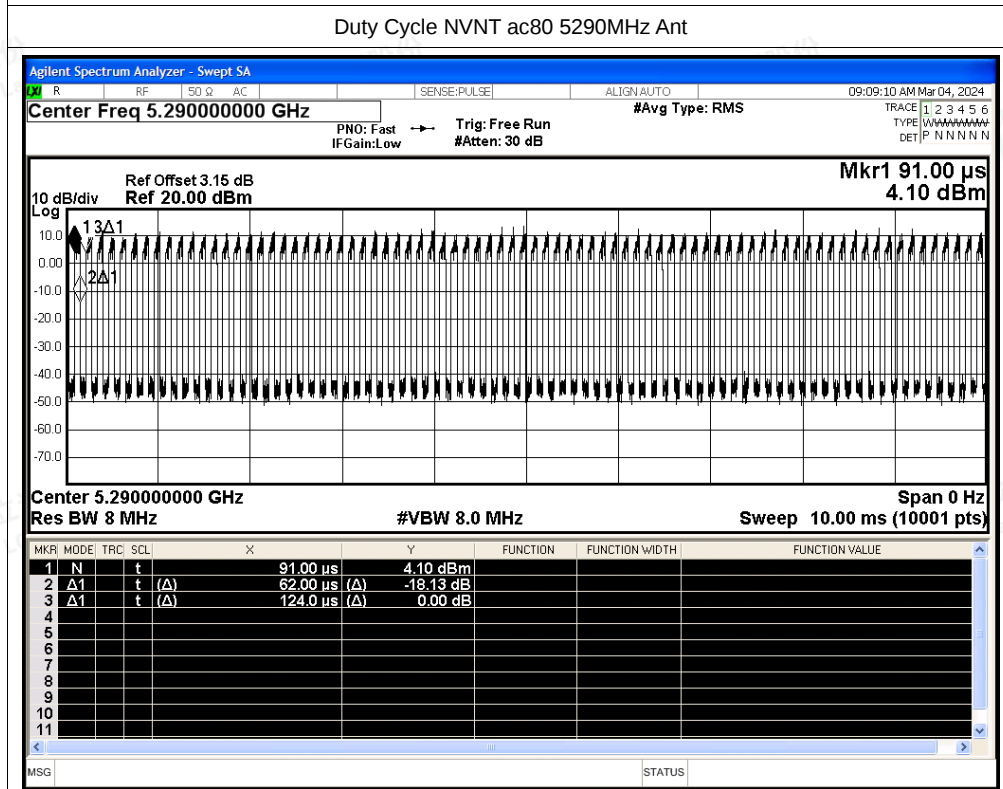
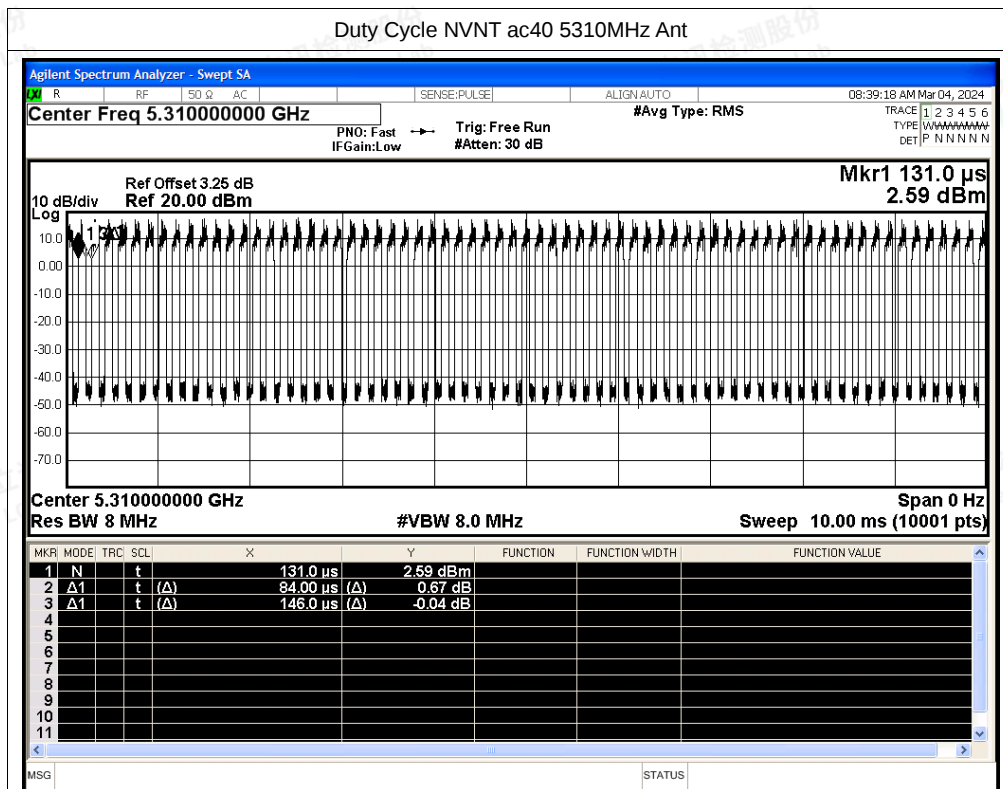


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