



Appendix E

RF Test Data for 5.3GWIFI(Conducted Measurement)

Product Name: Mobile phone

Test Model: F31tx

Environmental Conditions

Temperature:	23.9° C
Relative Humidity:	52.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Jay Luo
Supervised by:	Nick Peng



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E.1 -26dB Bandwidth

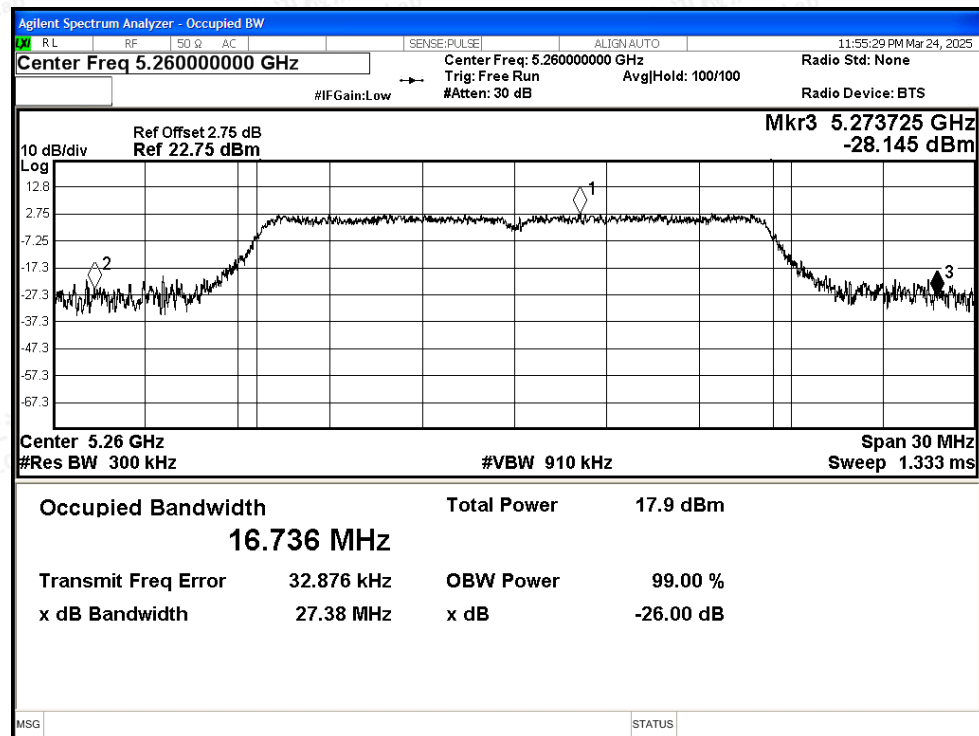
Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
NVNT	a	5260	Ant	27.384	---	Pass
NVNT	a	5300	Ant	27.775	---	Pass
NVNT	a	5320	Ant	27.323	---	Pass
NVNT	n20	5260	Ant	27.247	---	Pass
NVNT	n20	5300	Ant	26.95	---	Pass
NVNT	n20	5320	Ant	28.889	---	Pass
NVNT	n40	5270	Ant	51.478	---	Pass
NVNT	n40	5310	Ant	49.986	---	Pass



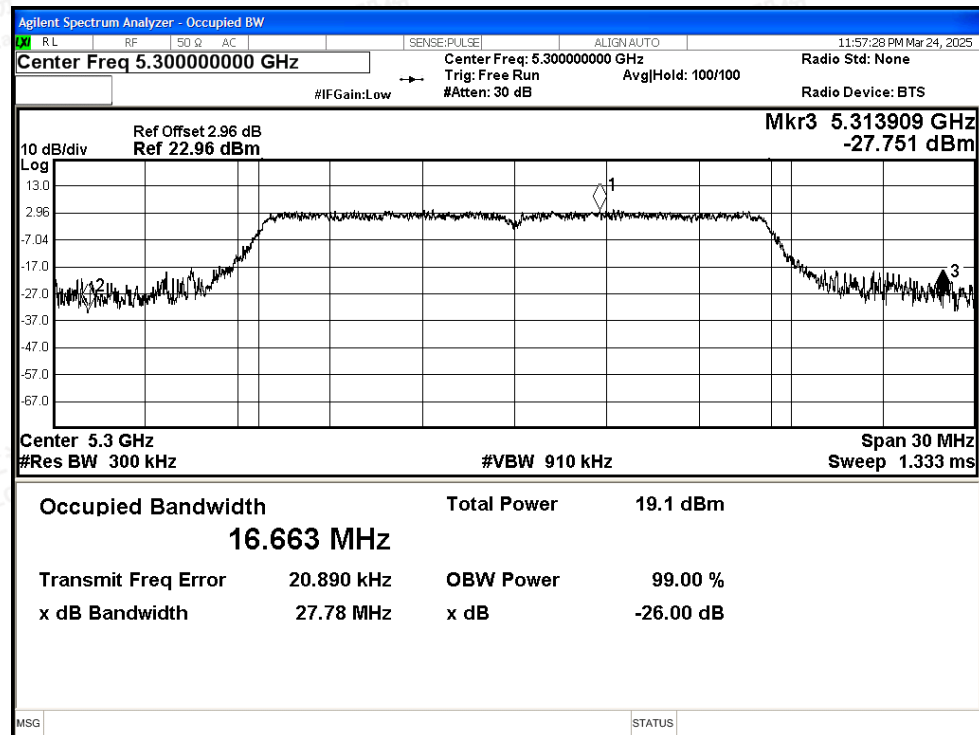


Test Graphs

-26dB Bandwidth NVNT a 5260MHz Ant



-26dB Bandwidth NVNT a 5300MHz Ant



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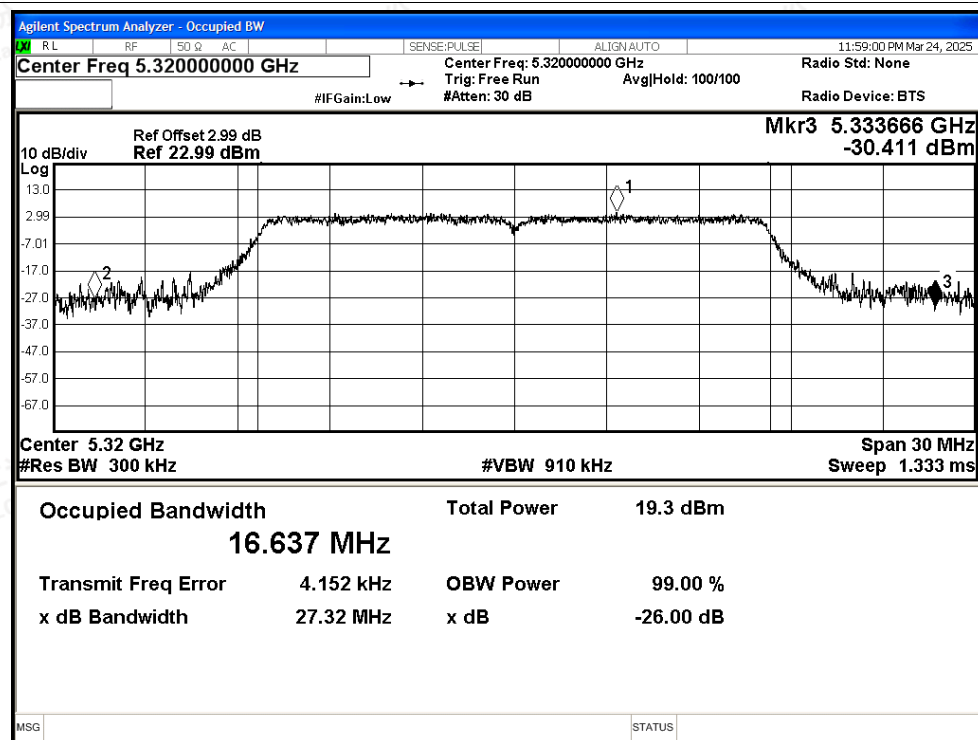
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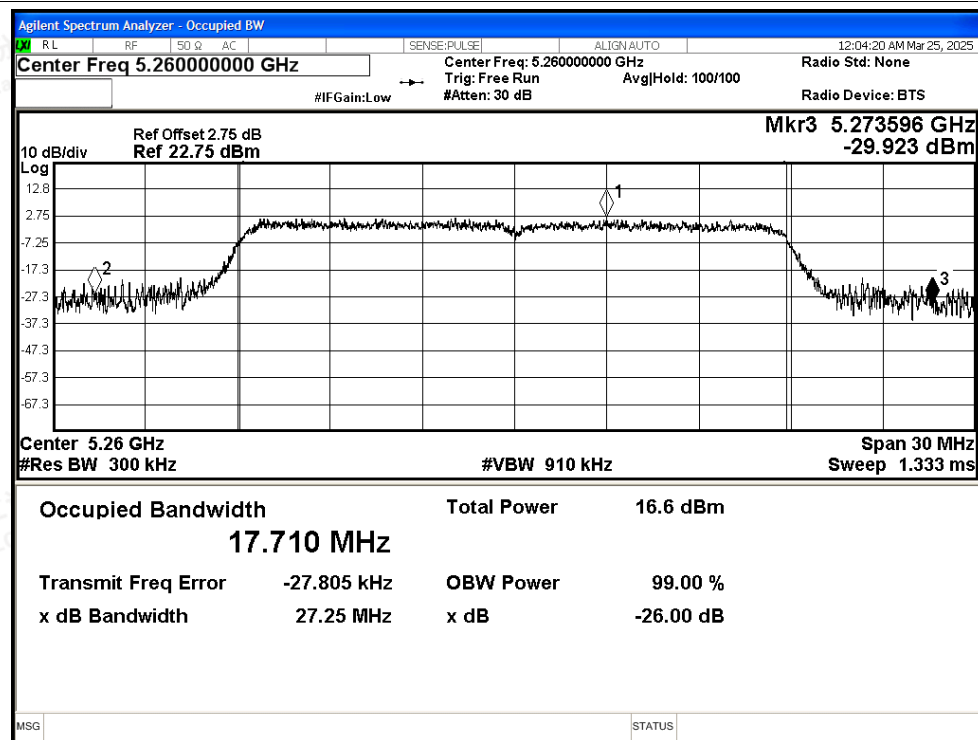
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-26dB Bandwidth NVNT a 5320MHz Ant



-26dB Bandwidth NVNT n20 5260MHz Ant



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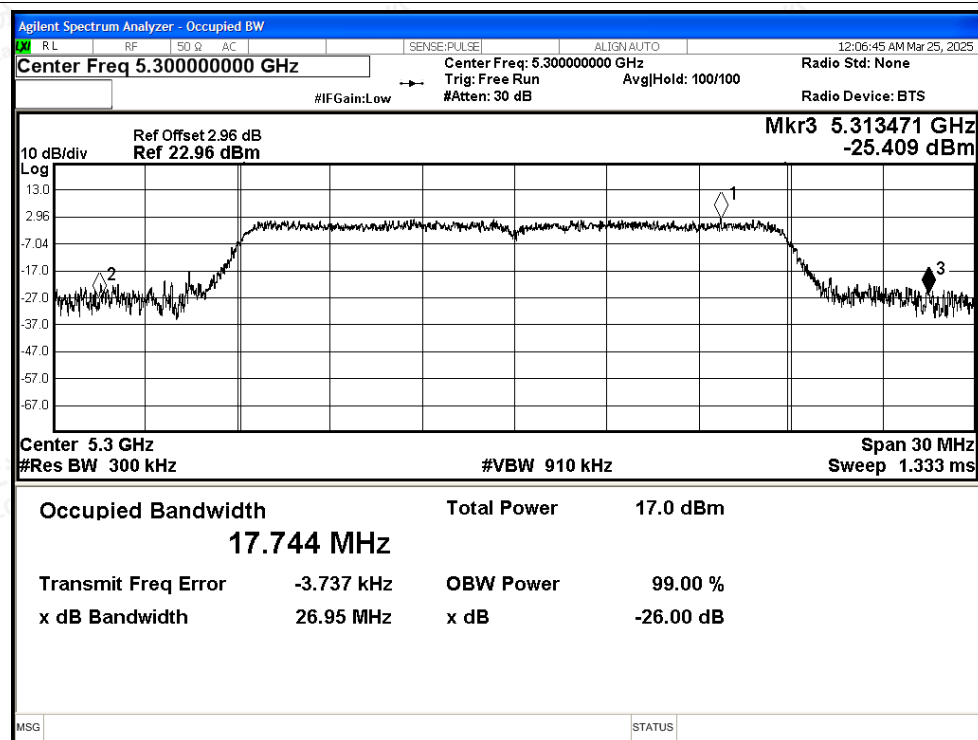
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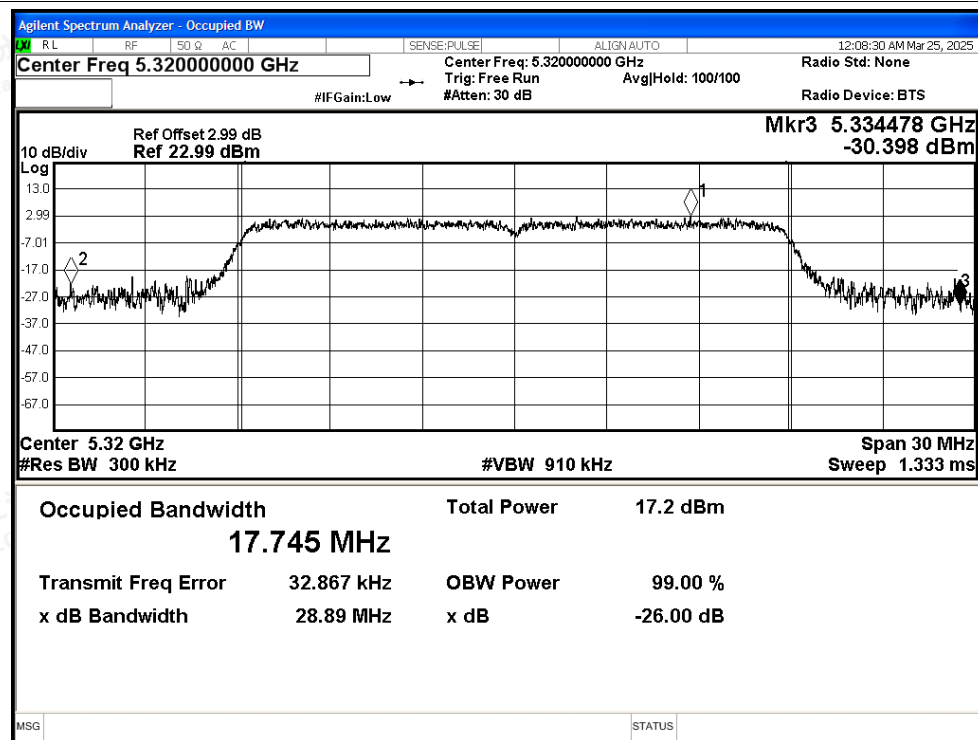
Scan code to check authenticity



-26dB Bandwidth NVNT n20 5300MHz Ant



-26dB Bandwidth NVNT n20 5320MHz Ant



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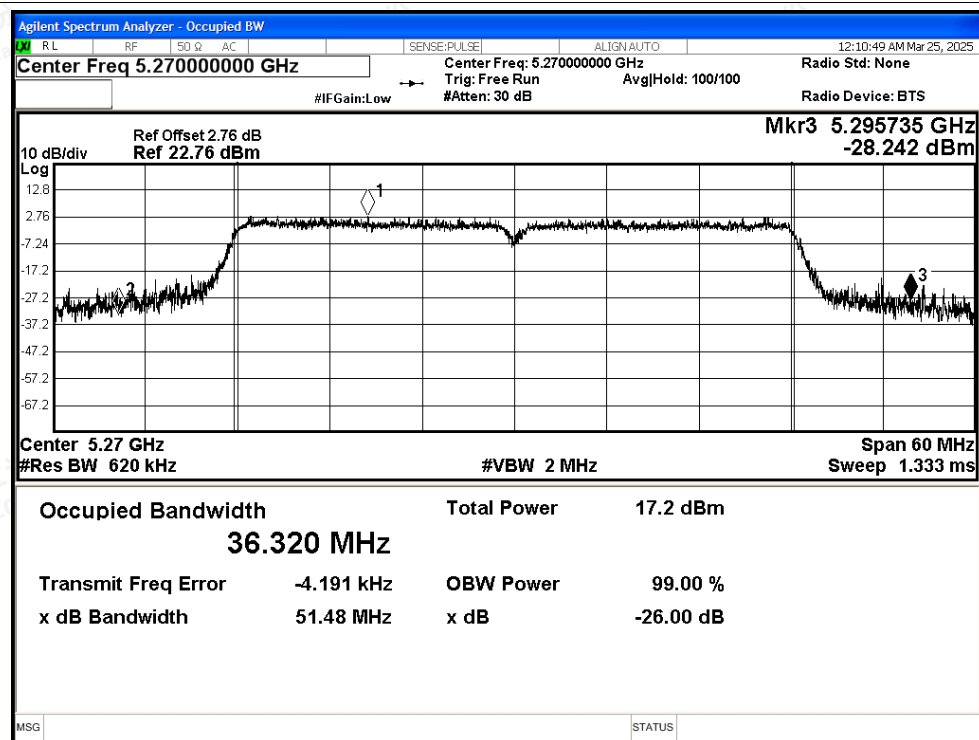
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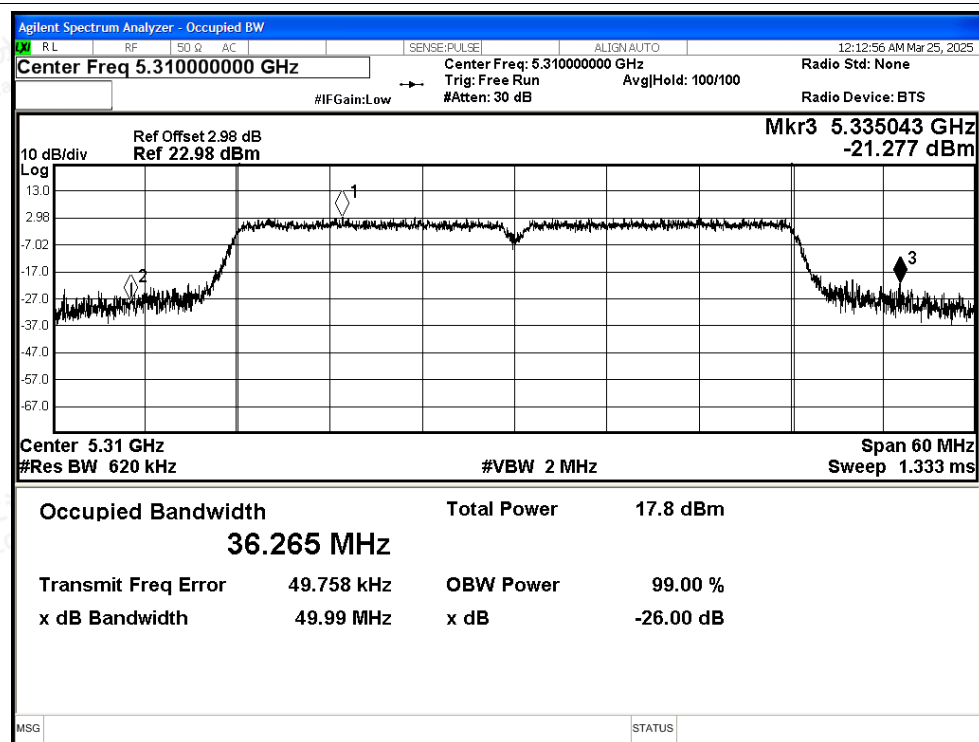
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-26dB Bandwidth NVNT n40 5270MHz Ant



-26dB Bandwidth NVNT n40 5310MHz 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	5260	Ant	12.18	0.24	12.42	24	Pass
NVNT	a	5300	Ant	13.35	0.24	13.59	24	Pass
NVNT	a	5320	Ant	13.53	0.24	13.77	24	Pass
NVNT	n20	5260	Ant	11.09	0.12	11.21	24	Pass
NVNT	n20	5300	Ant	11.58	0.12	11.7	24	Pass
NVNT	n20	5320	Ant	11.73	0.12	11.85	24	Pass
NVNT	n40	5270	Ant	10.67	0.23	10.9	24	Pass
NVNT	n40	5310	Ant	11.7	0.24	11.94	24	Pass





E.3 Maximum Power Spectral Density Level

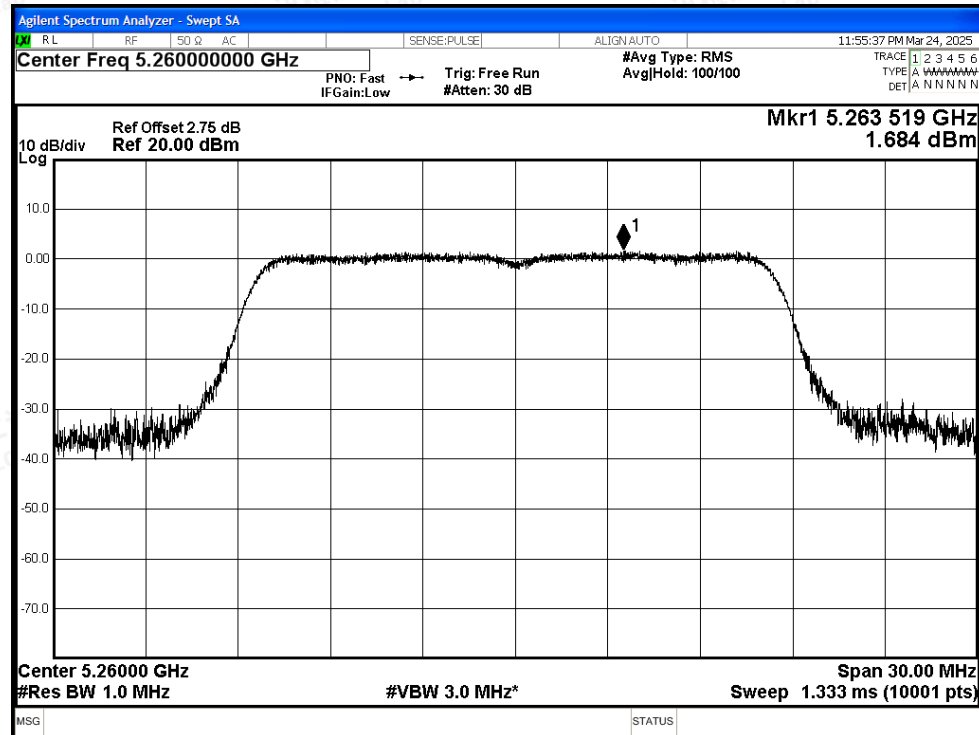
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/MHz)	Duty Factor (dB)	Total PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	a	5260	Ant	1.68	0.24	1.92	11	Pass
NVNT	a	5300	Ant	2.71	0.24	2.95	11	Pass
NVNT	a	5320	Ant	2.86	0.24	3.1	11	Pass
NVNT	n20	5260	Ant	0.54	0.12	0.66	11	Pass
NVNT	n20	5300	Ant	0.61	0.12	0.73	11	Pass
NVNT	n20	5320	Ant	1.01	0.12	1.13	11	Pass
NVNT	n40	5270	Ant	-2.8	0.23	-2.57	11	Pass
NVNT	n40	5310	Ant	-2.28	0.24	-2.04	11	Pass



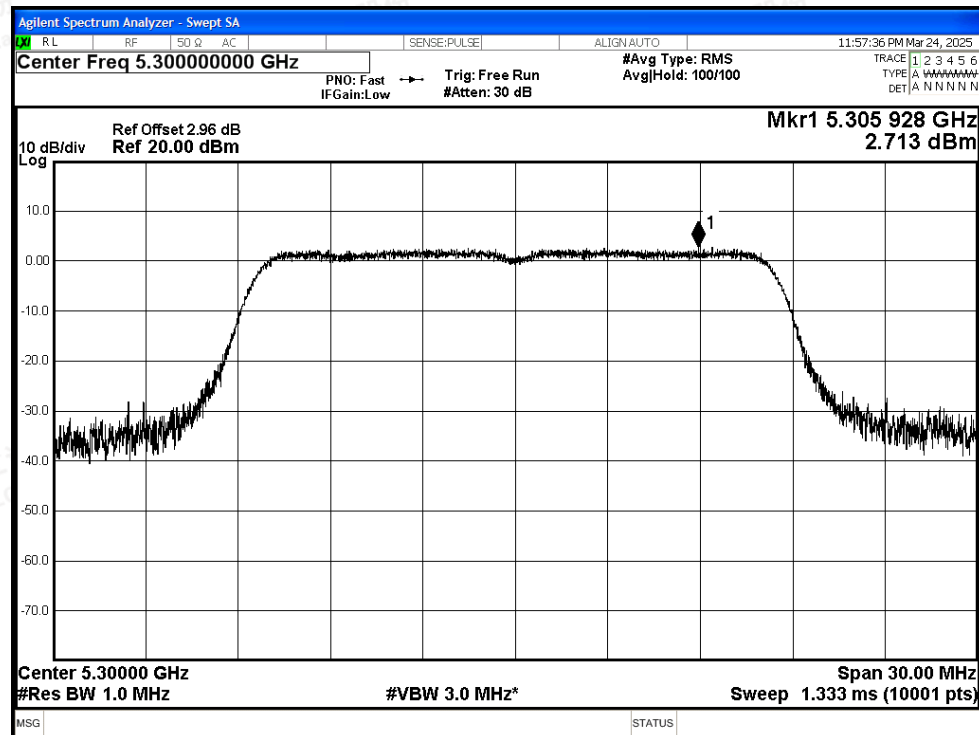


Test Graphs

PSD NVNT a 5260MHz Ant



PSD NVNT a 5300MHz Ant



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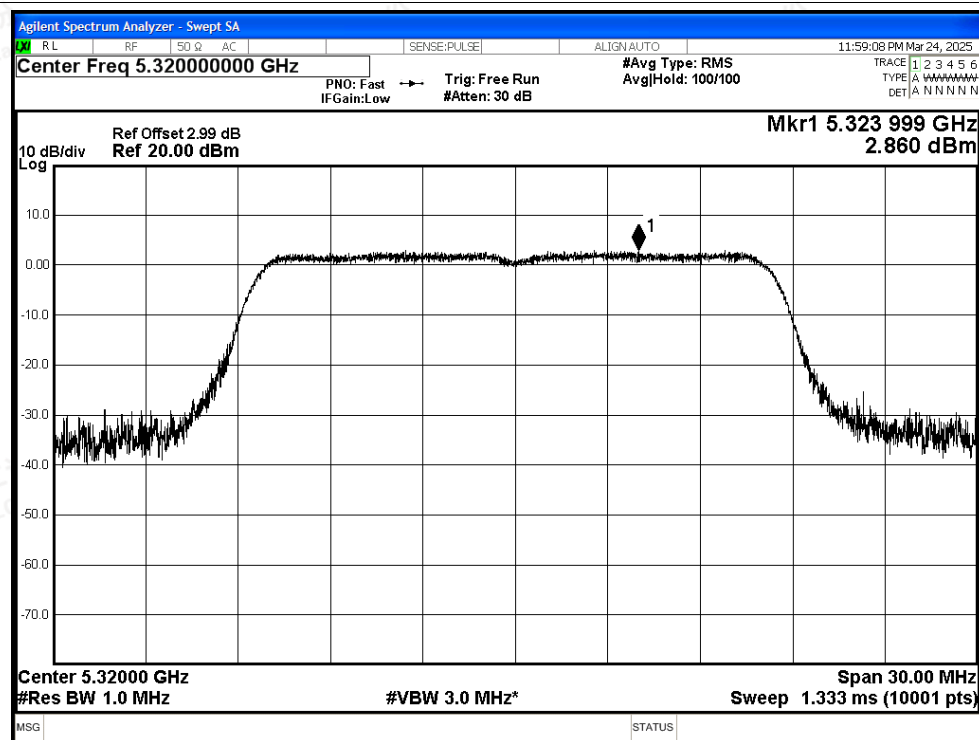
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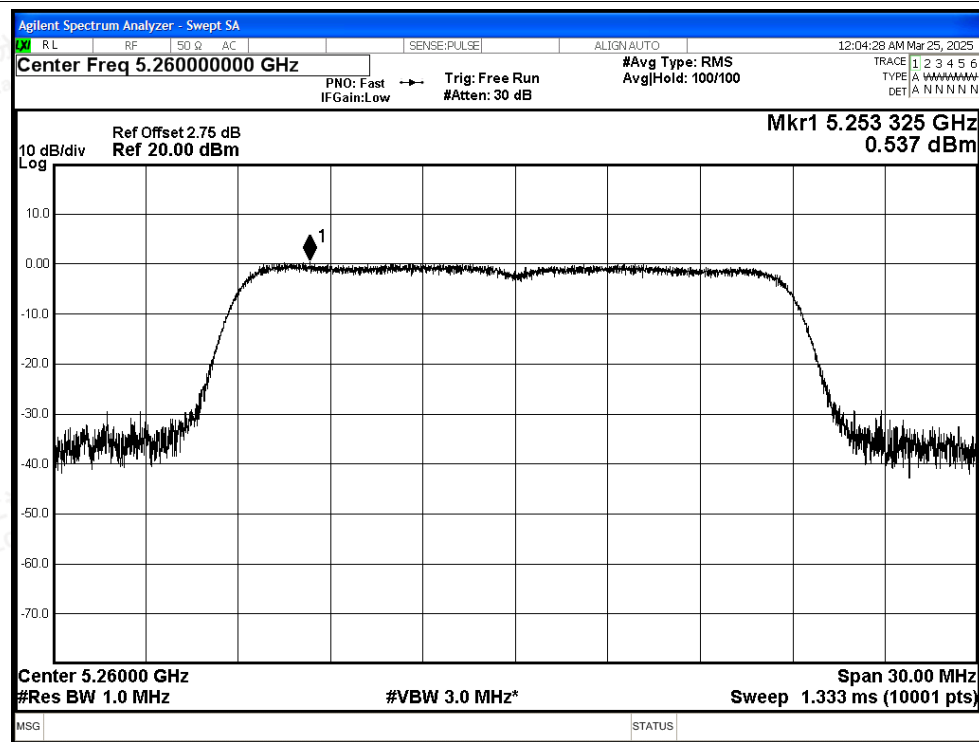
Scan code to check authenticity



PSD NVNT a 5320MHz Ant



PSD NVNT n20 5260MHz Ant



Shenzhen LCS Compliance Testing Laboratory Ltd.

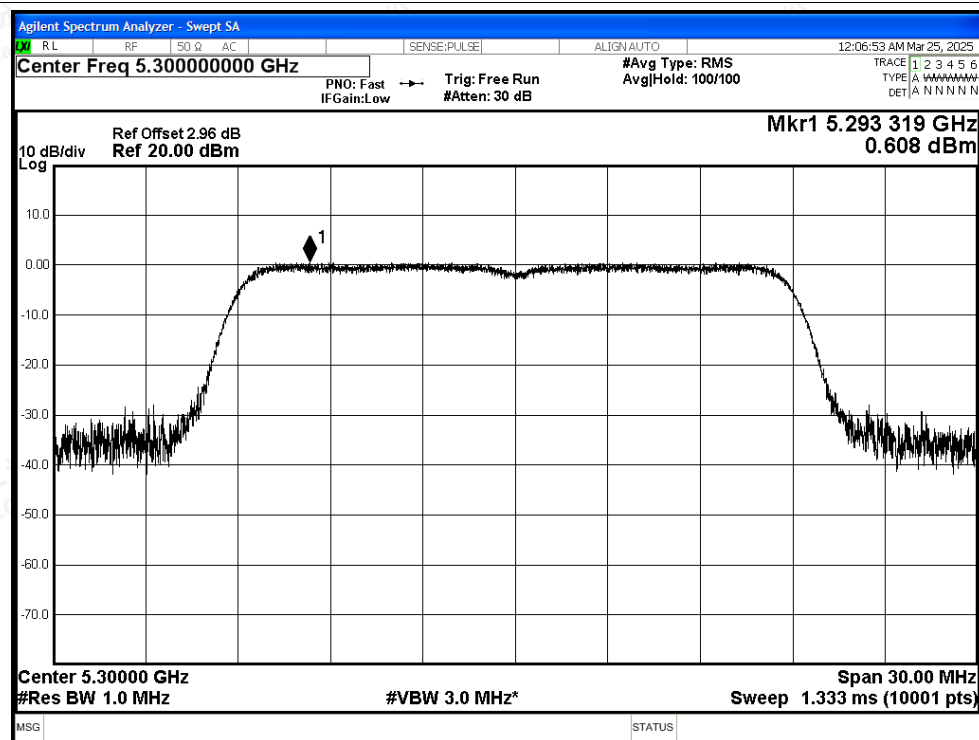
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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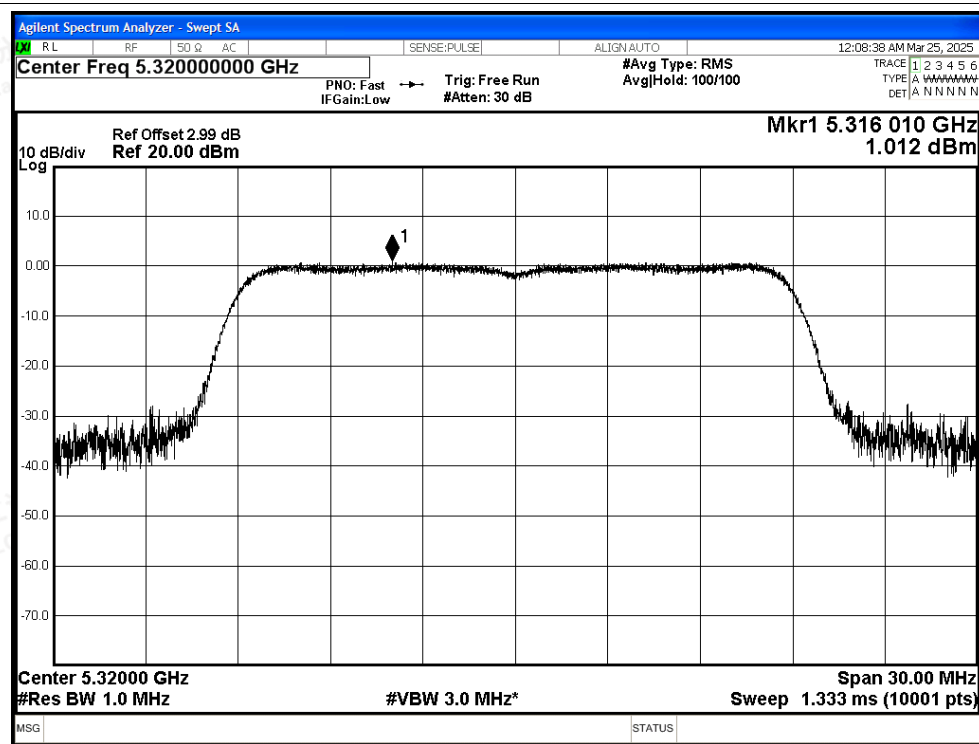
Scan code to check authenticity



PSD NVNT n20 5300MHz Ant



PSD NVNT n20 5320MHz Ant



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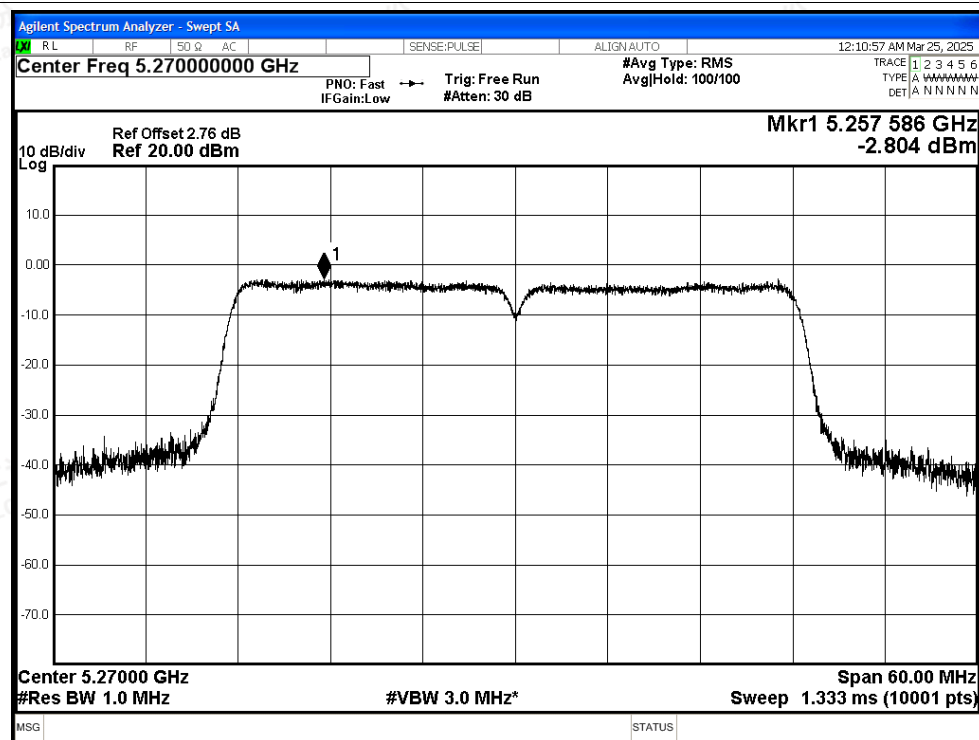
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

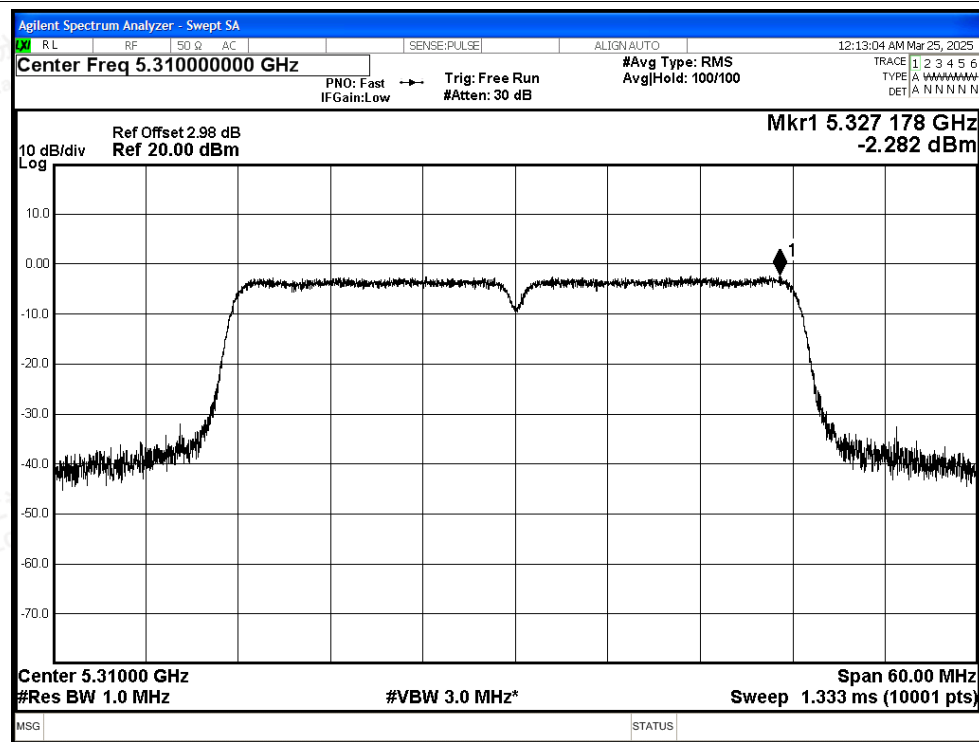
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PSD NVNT n40 5270MHz Ant



PSD NVNT n40 5310MHz Ant



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E.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	-51.48	2	-	45.75	Peak	68.2	Pass
NVNT	a	5260	Ant	4500	-58.93	2	0.24	38.54	Average	54	Pass
NVNT	a	5260	Ant	4787.82	-46.48	2	-	50.75	Peak	68.2	Pass
NVNT	a	5260	Ant	5035.08	-57.01	2	0.24	40.46	Average	54	Pass
NVNT	a	5260	Ant	5150	-48.49	2	-	48.74	Peak	68.2	Pass
NVNT	a	5260	Ant	5150	-57.45	2	0.24	40.02	Average	54	Pass
NVNT	a	5320	Ant	5350	-45.97	2	-	51.26	Peak	68.2	Pass
NVNT	a	5320	Ant	5350	-56.77	2	0.24	40.7	Average	54	Pass
NVNT	a	5320	Ant	5352.2	-45.74	2	-	51.49	Peak	68.2	Pass
NVNT	a	5320	Ant	5350.2	-56.73	2	0.24	40.74	Average	54	Pass
NVNT	a	5320	Ant	5460	-49.09	2	-	48.14	Peak	68.2	Pass
NVNT	a	5320	Ant	5460	-57.87	2	0.24	39.6	Average	54	Pass
NVNT	n20	5260	Ant	4500	-51.96	2	-	45.27	Peak	68.2	Pass
NVNT	n20	5260	Ant	4500	-59.18	2	0.12	38.17	Average	54	Pass
NVNT	n20	5260	Ant	5047.56	-46.66	2	-	50.57	Peak	68.2	Pass
NVNT	n20	5260	Ant	5137.26	-57.03	2	0.12	40.32	Average	54	Pass
NVNT	n20	5260	Ant	5150	-48.21	2	-	49.02	Peak	68.2	Pass
NVNT	n20	5260	Ant	5150	-57.28	2	0.12	40.07	Average	54	Pass
NVNT	n20	5320	Ant	5350	-46.6	2	-	50.63	Peak	68.2	Pass
NVNT	n20	5320	Ant	5350	-56.15	2	0.12	41.2	Average	54	Pass
NVNT	n20	5320	Ant	5351.8	-42.07	2	-	55.16	Peak	68.2	Pass
NVNT	n20	5320	Ant	5350.6	-55.37	2	0.12	41.98	Average	54	Pass
NVNT	n20	5320	Ant	5460	-50.11	2	-	47.12	Peak	68.2	Pass
NVNT	n20	5320	Ant	5460	-58.72	2	0.12	38.63	Average	54	Pass
NVNT	n40	5270	Ant	4500	-50.43	2	-	46.8	Peak	68.2	Pass
NVNT	n40	5270	Ant	4500	-59.63	2	0.23	37.83	Average	54	Pass
NVNT	n40	5270	Ant	4824	-46.62	2	-	50.61	Peak	68.2	Pass
NVNT	n40	5270	Ant	4806.99	-57	2	0.23	40.46	Average	54	Pass
NVNT	n40	5270	Ant	5150	-47.17	2	-	50.06	Peak	68.2	Pass
NVNT	n40	5270	Ant	5150	-57.27	2	0.23	40.19	Average	54	Pass
NVNT	n40	5310	Ant	5350	-45.03	2	-	52.2	Peak	68.2	Pass
NVNT	n40	5310	Ant	5350	-55.88	2	0.24	41.59	Average	54	Pass
NVNT	n40	5310	Ant	5350.8	-43.98	2	-	53.25	Peak	68.2	Pass
NVNT	n40	5310	Ant	5351.4	-55.74	2	0.24	41.73	Average	54	Pass
NVNT	n40	5310	Ant	5460	-50.44	2	-	46.79	Peak	68.2	Pass
NVNT	n40	5310	Ant	5460	-57.81	2	0.24	39.66	Average	54	Pass



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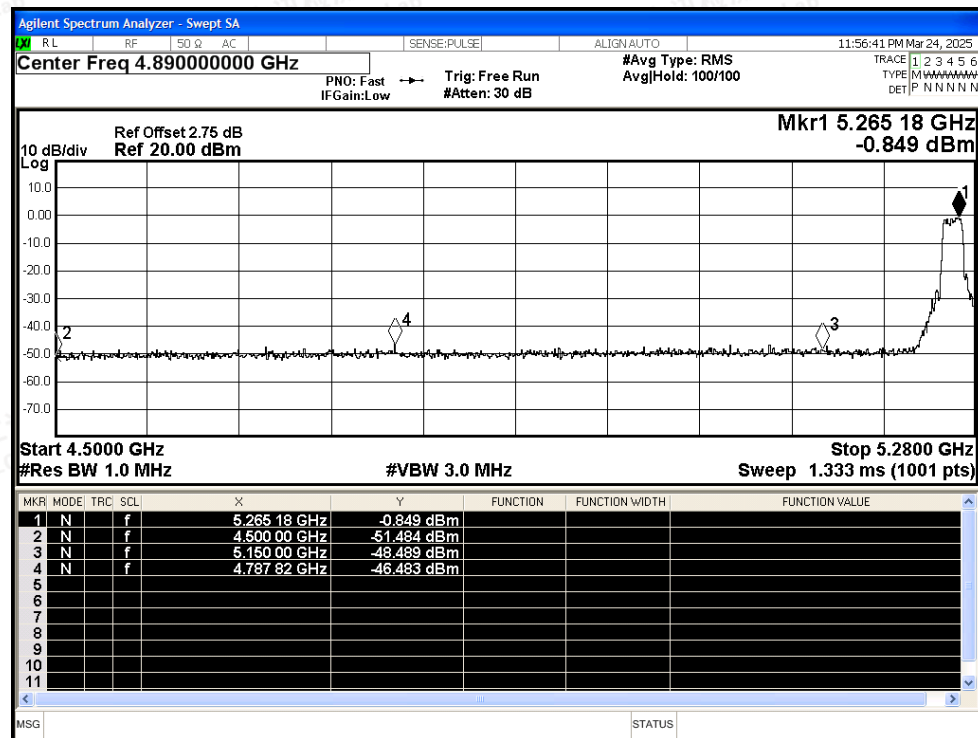
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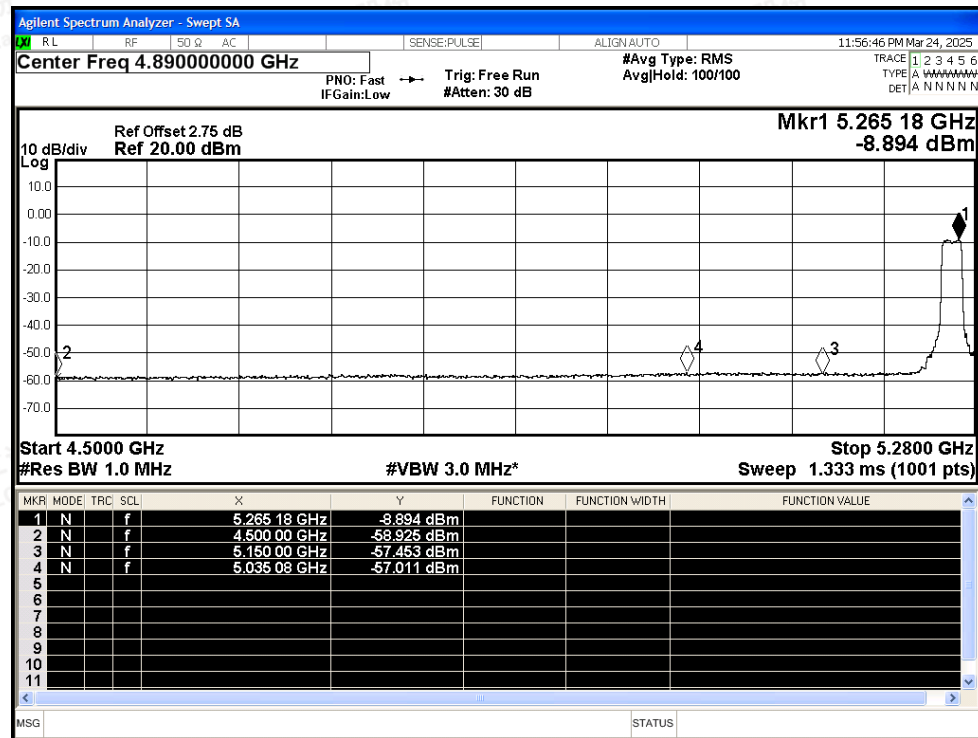


Test Graphs

Restrict Band NVNT a 5260MHz Ant Peak



Restrict Band NVNT a 5260MHz Ant Average



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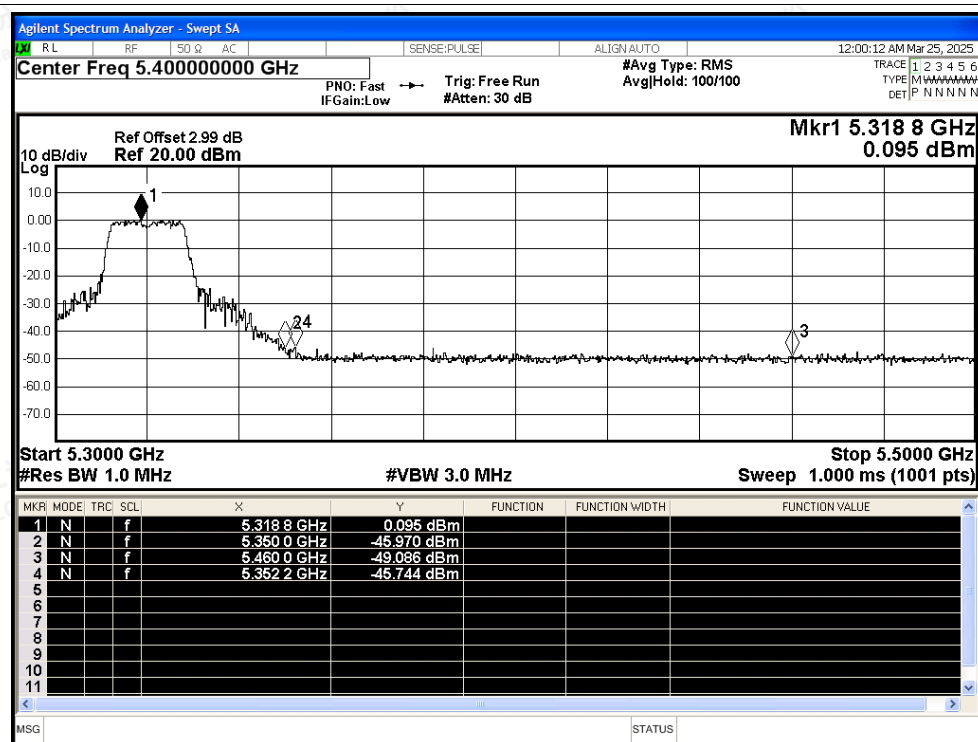
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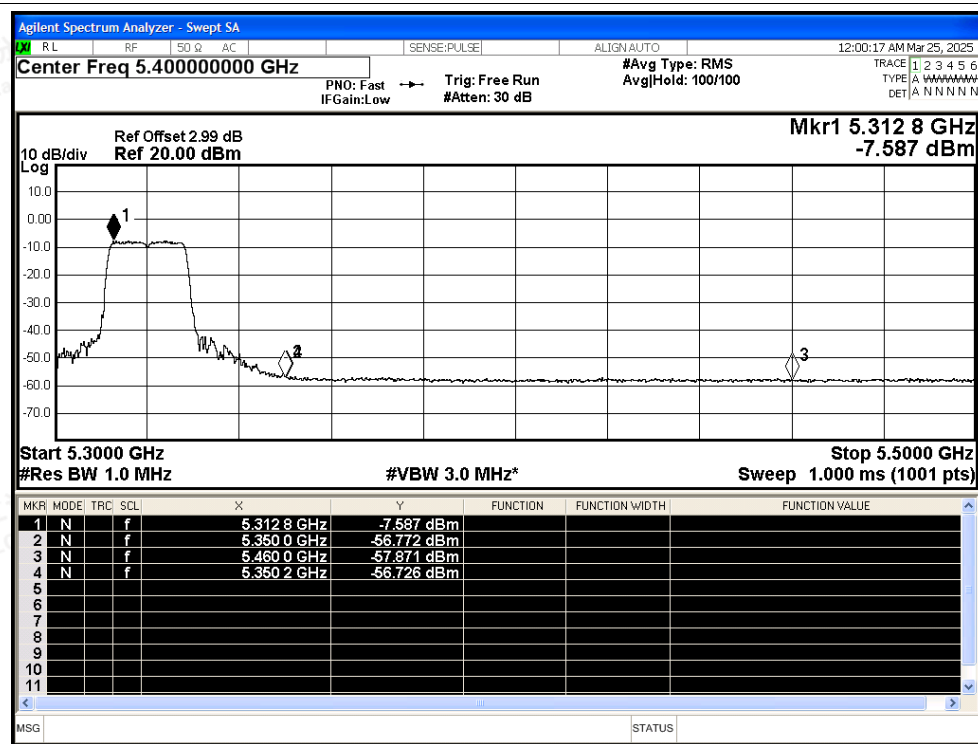
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Restrict Band NVNT a 5320MHz Ant Peak



Restrict Band NVNT a 5320MHz Ant Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

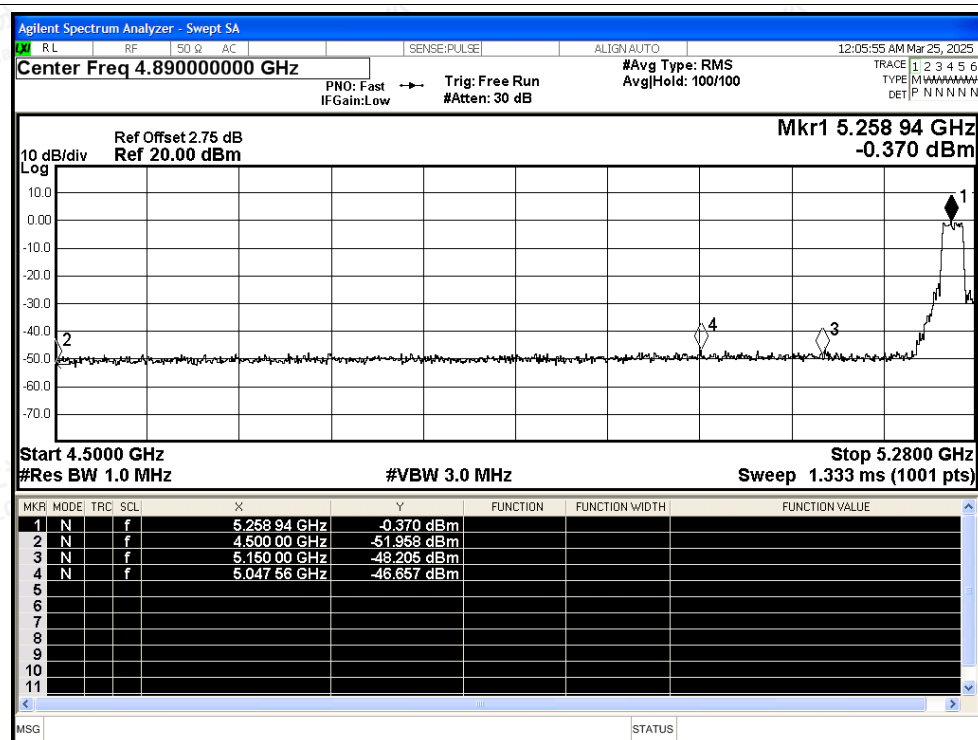
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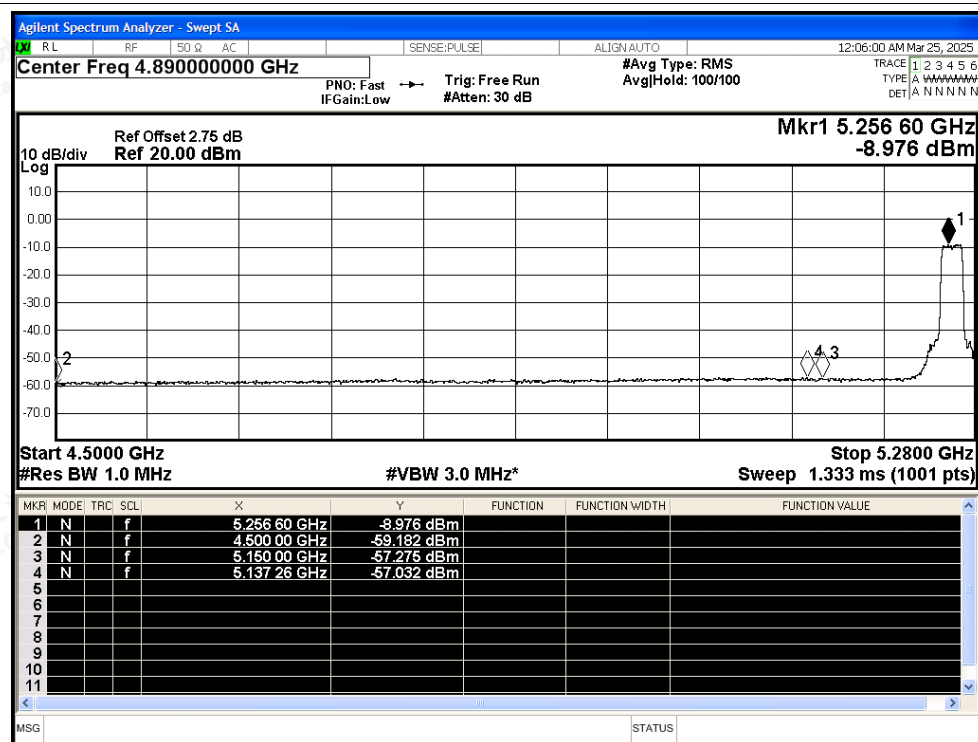
Scan code to check authenticity



Restrict Band NVNT n20 5260MHz Ant Peak



Restrict Band NVNT n20 5260MHz Ant Average



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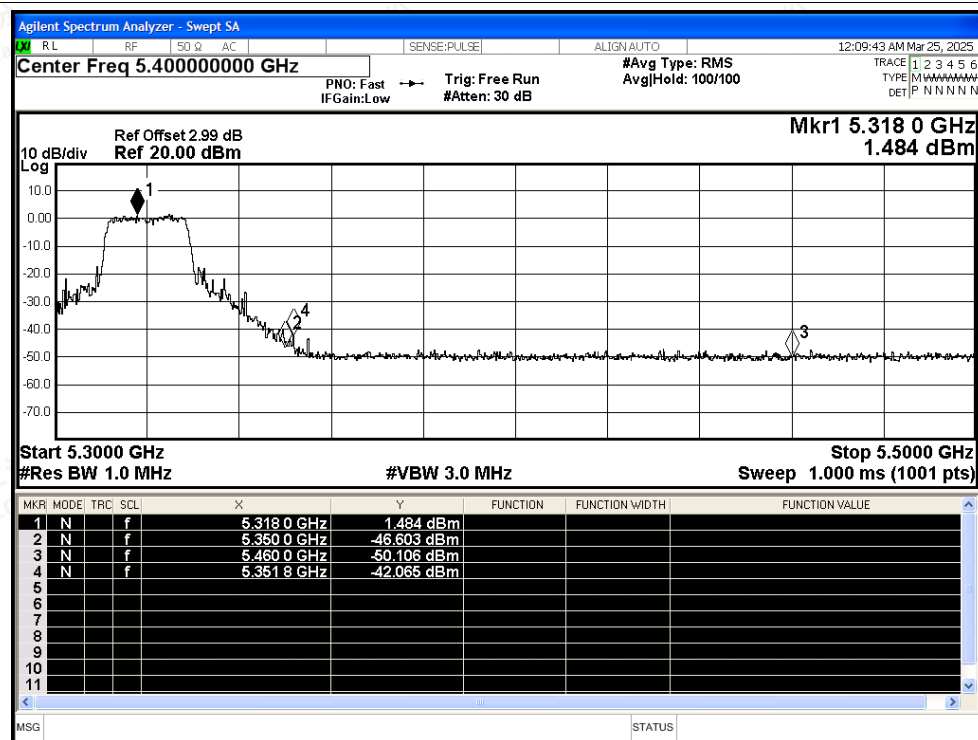
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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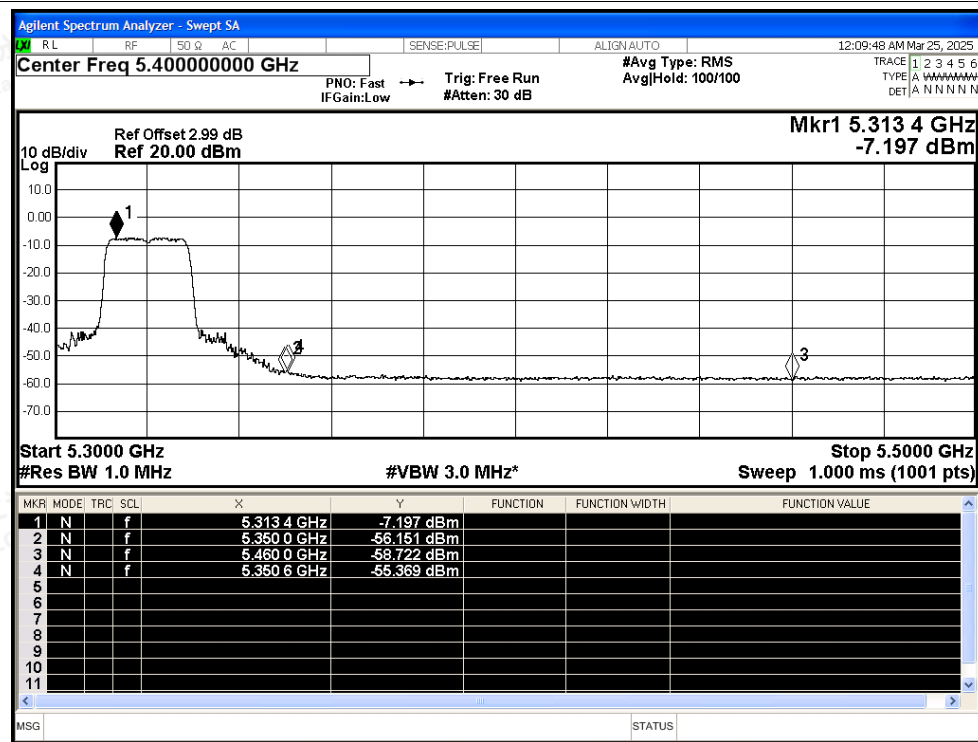
Scan code to check authenticity



Restrict Band NVNT n20 5320MHz Ant Peak



Restrict Band NVNT n20 5320MHz Ant Average



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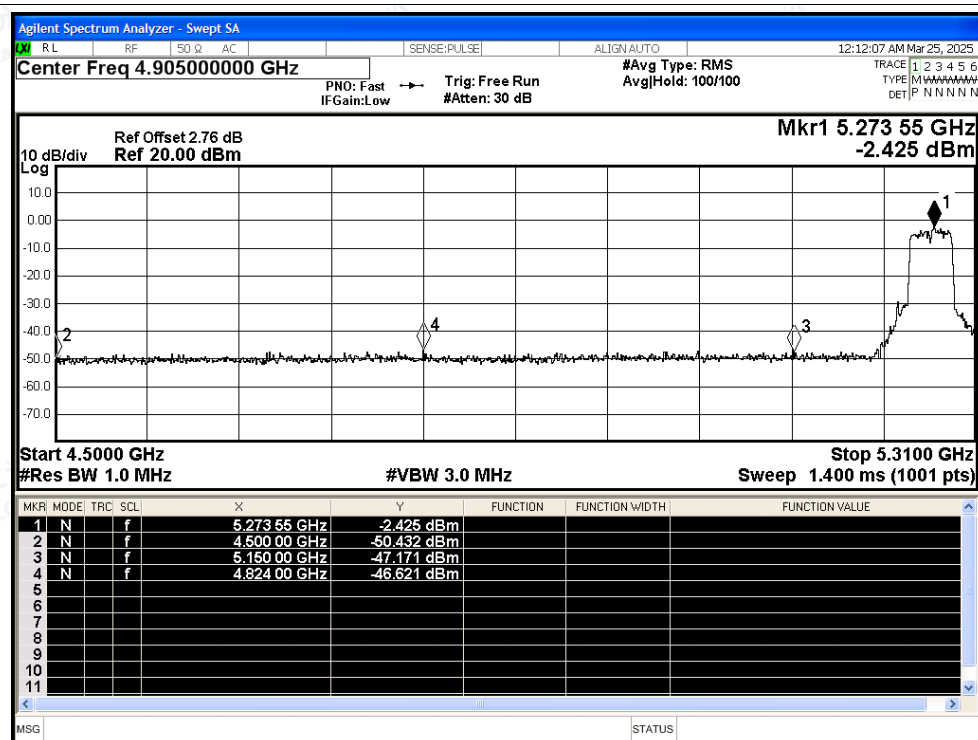
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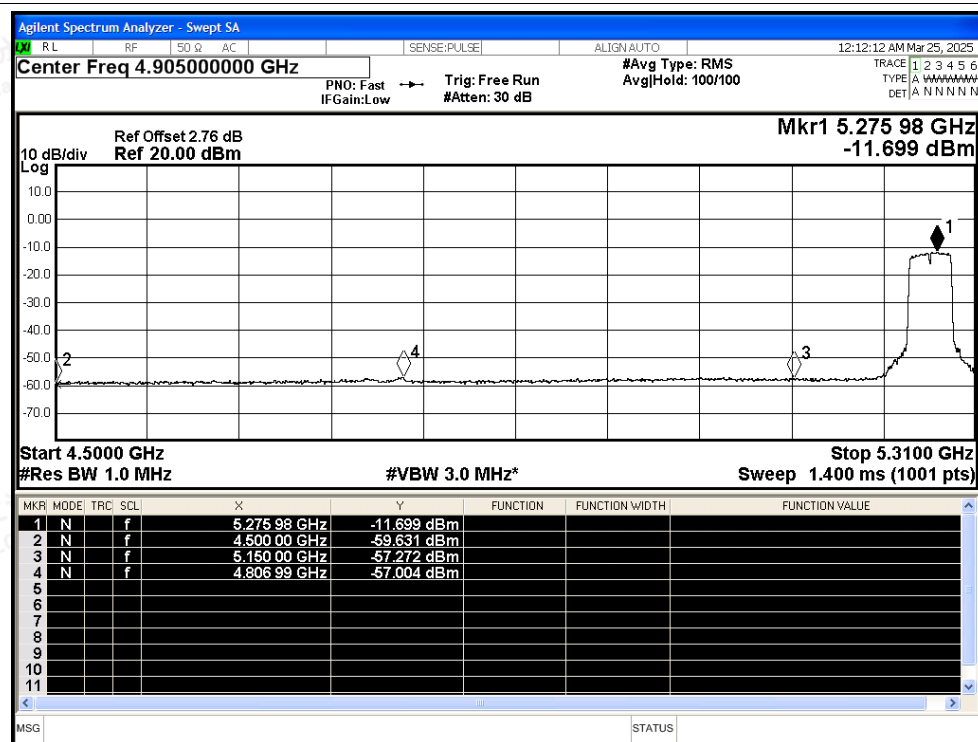
Scan code to check authenticity



Restrict Band NVNT n40 5270MHz Ant Peak



Restrict Band NVNT n40 5270MHz Ant Average



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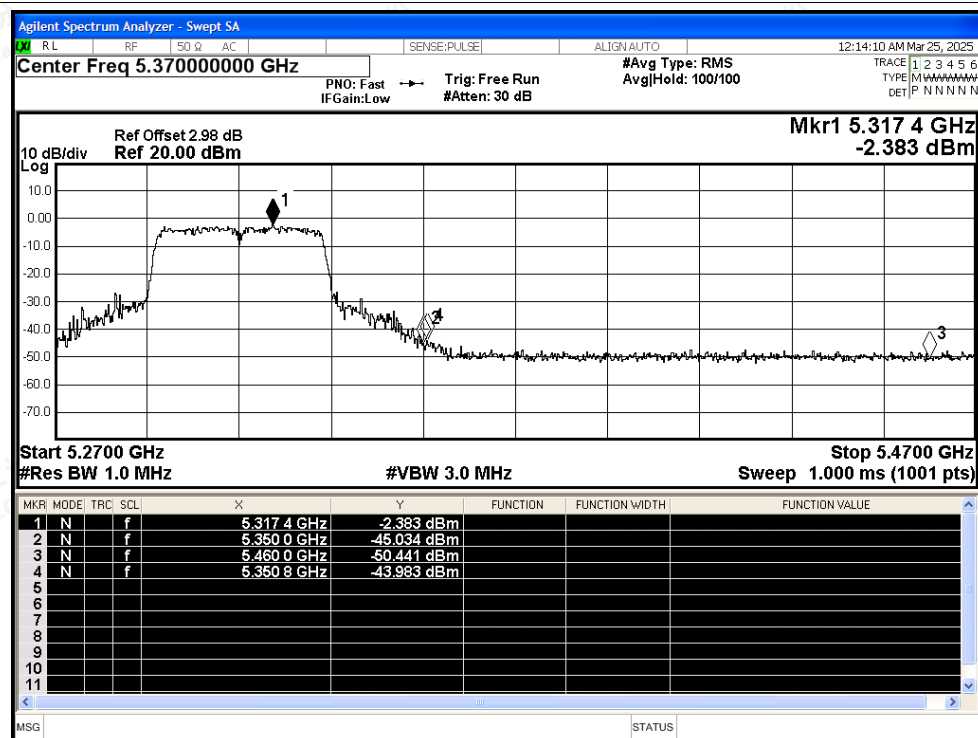
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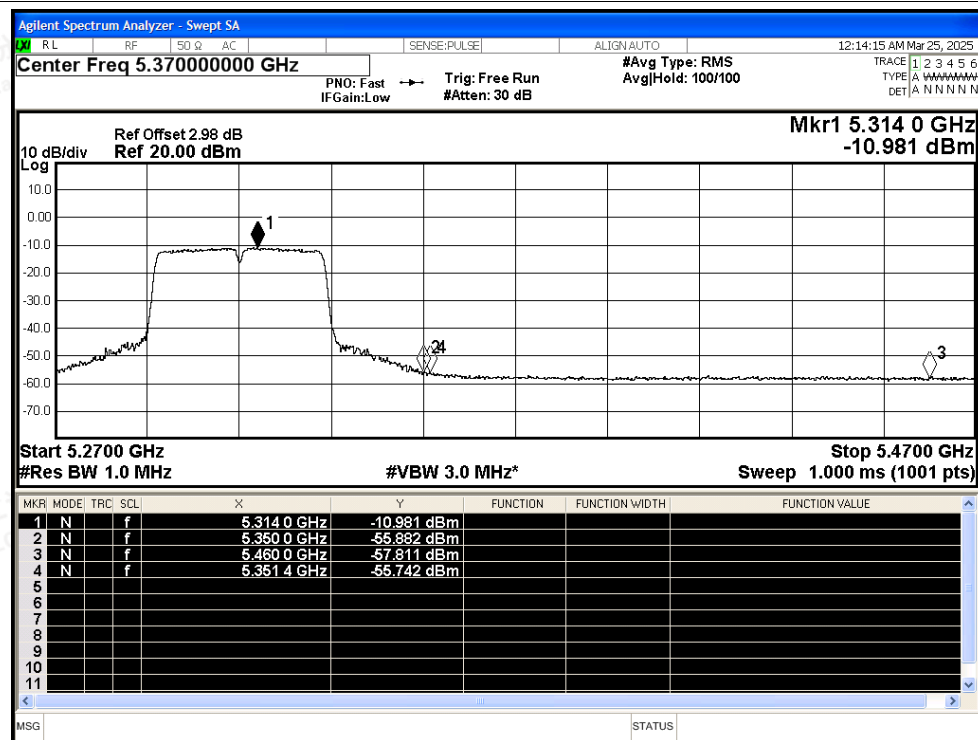
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Restrict Band NVNT n40 5310MHz Ant Peak



Restrict Band NVNT n40 5310MHz Ant Average



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E.5 Frequency Stability

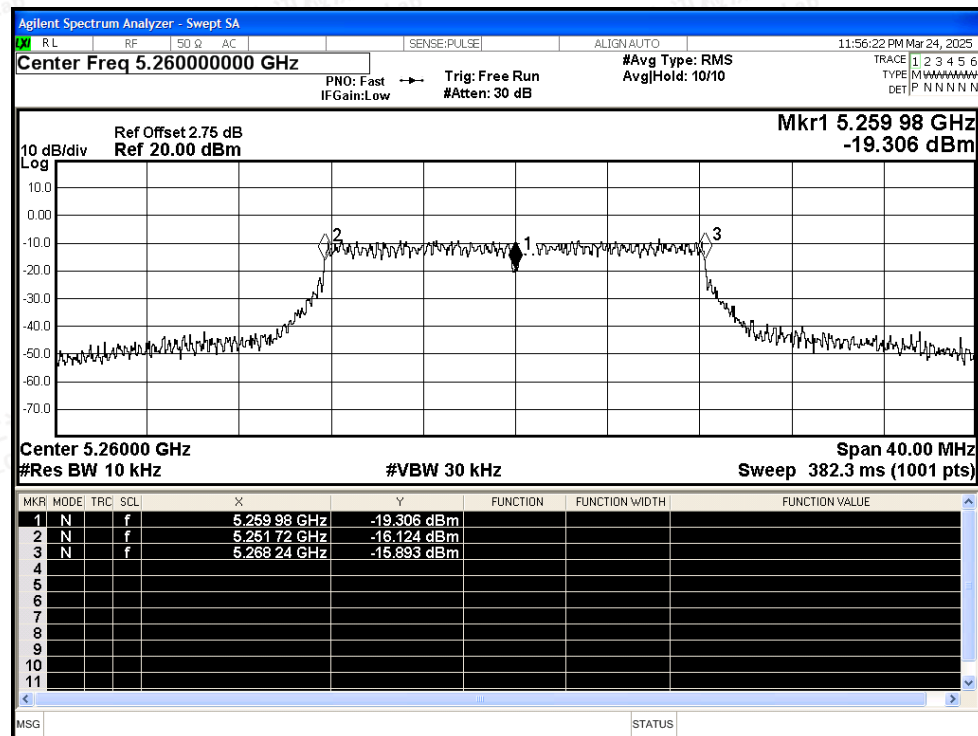
Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	a	5260	Ant	5259.98	-20000	-3.8	25	Pass
NVNT	a	5300	Ant	5299.98	-20000	-3.77	25	Pass
NVNT	a	5320	Ant	5319.98	-20000	-3.76	25	Pass
NVNT	n20	5260	Ant	5259.98	-20000	-3.8	25	Pass
NVNT	n20	5300	Ant	5299.98	-20000	-3.77	25	Pass
NVNT	n20	5320	Ant	5320	0	0	25	Pass
NVNT	n40	5270	Ant	5269.96	-40000	-7.59	25	Pass
NVNT	n40	5310	Ant	5309.96	-40000	-7.53	25	Pass



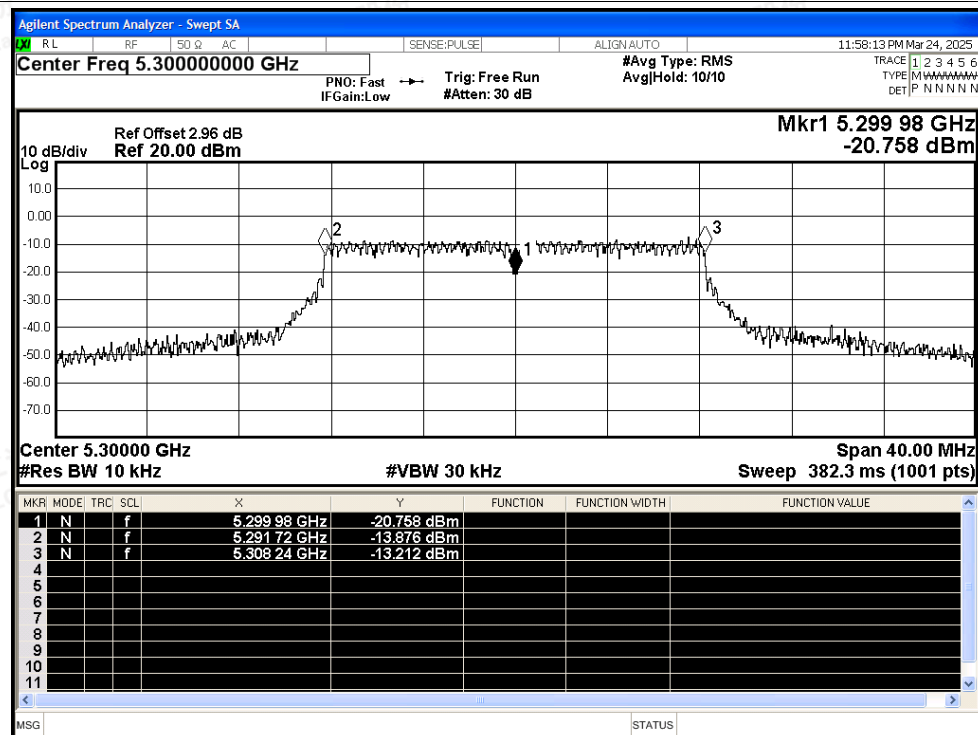


Test Graphs

Freq. Stability NVNT a 5260MHz Ant



Freq. Stability NVNT a 5300MHz Ant



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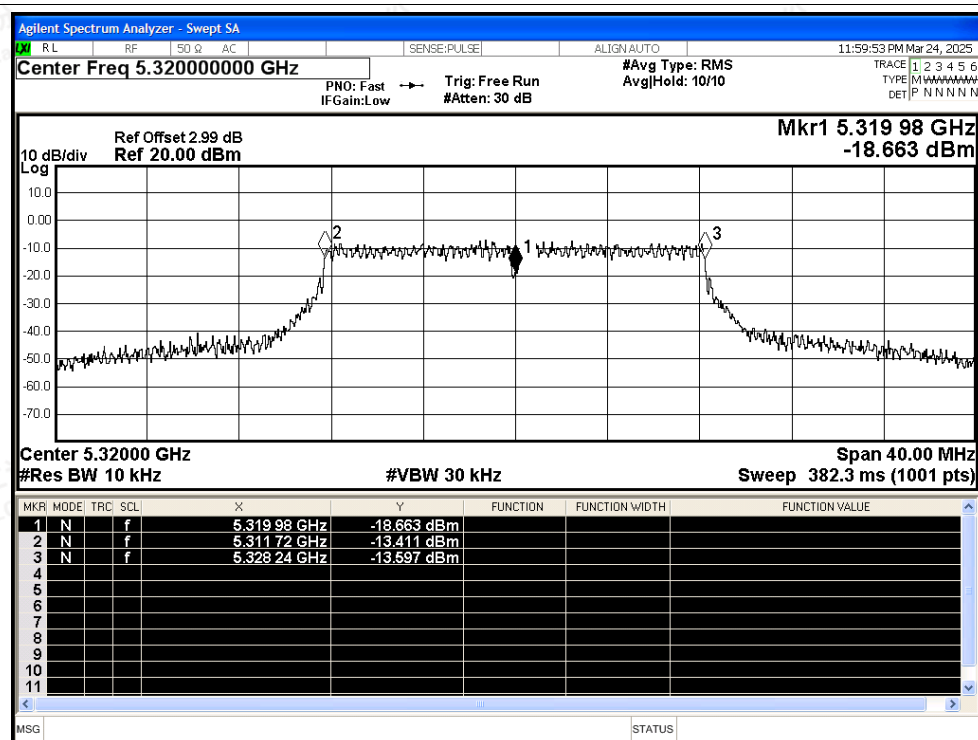
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

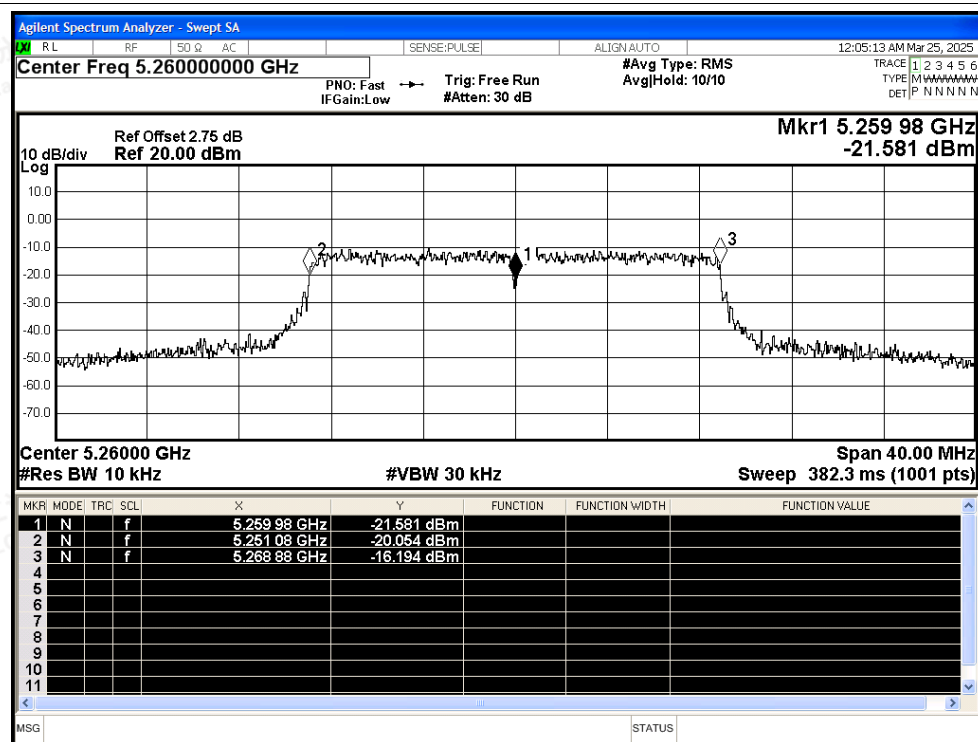
Scan code to check authenticity



Freq. Stability NVNT a 5320MHz Ant



Freq. Stability NVNT n20 5260MHz Ant



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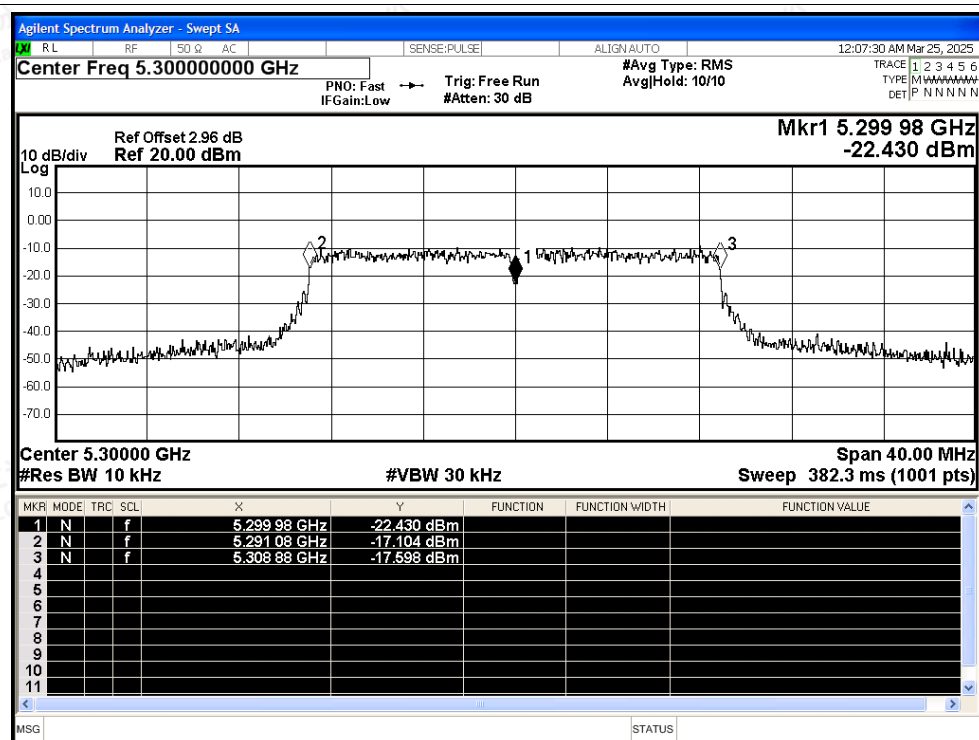
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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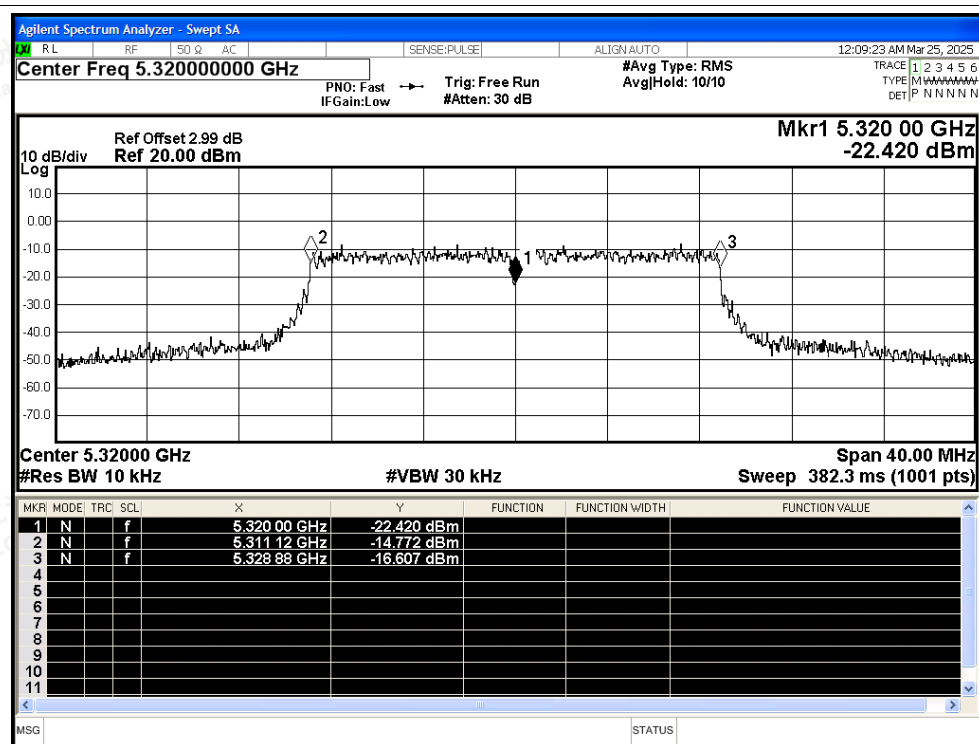
Scan code to check authenticity



Freq. Stability NVNT n20 5300MHz Ant



Freq. Stability NVNT n20 5320MHz Ant



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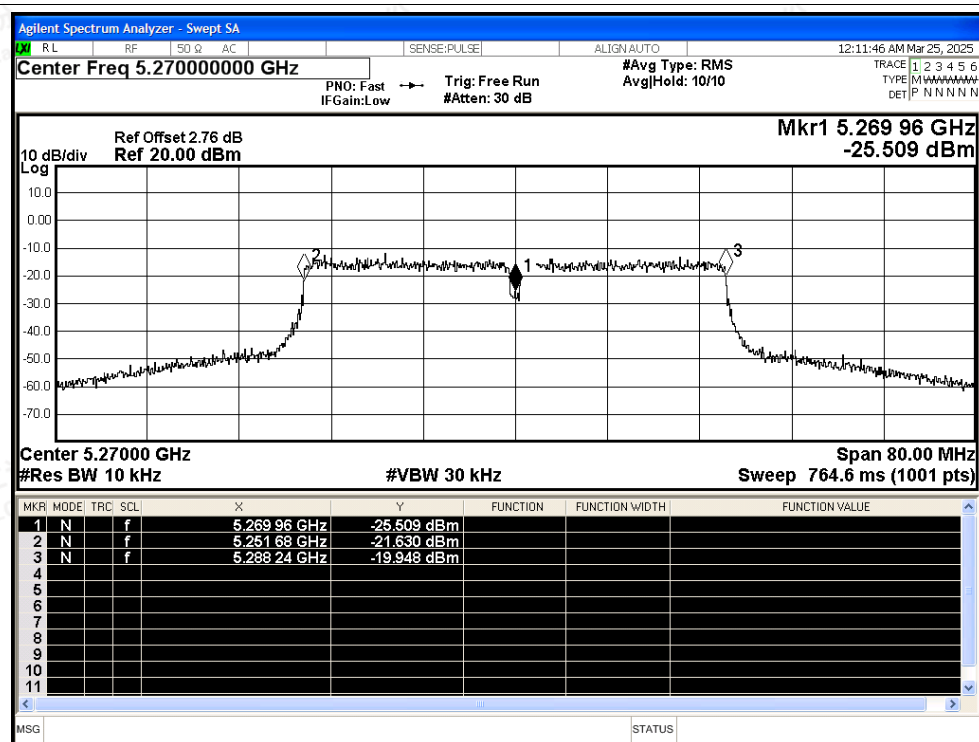
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

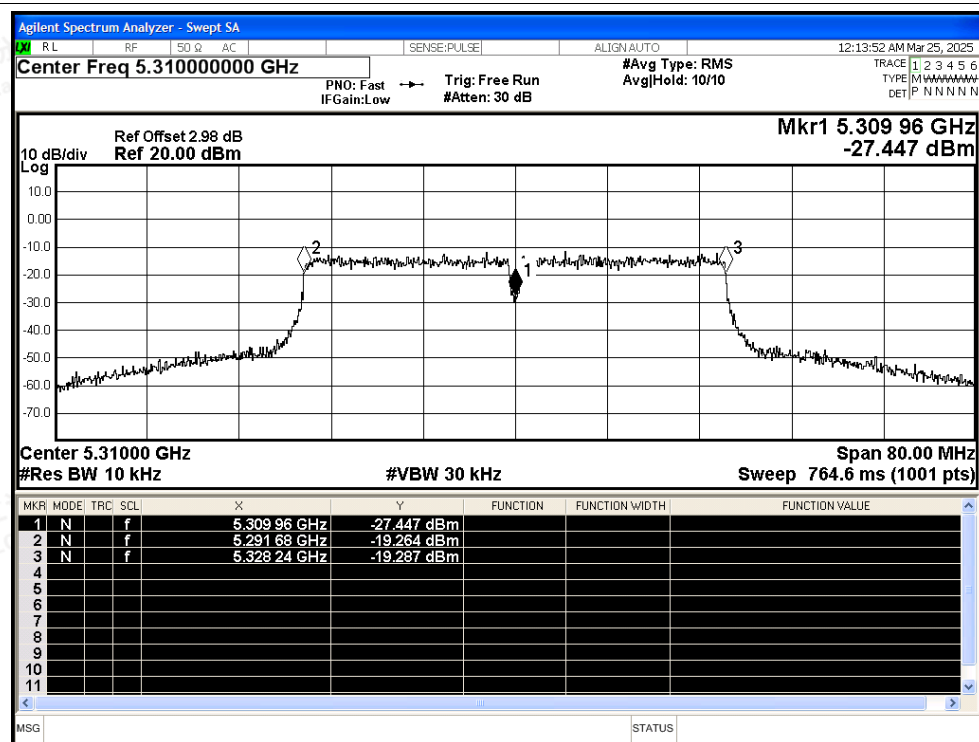
Scan code to check authenticity



Freq. Stability NVNT n40 5270MHz Ant



Freq. Stability NVNT n40 5310MHz Ant



Shenzhen LCS Compliance Testing Laboratory Ltd.

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E.6 Duty Cycle

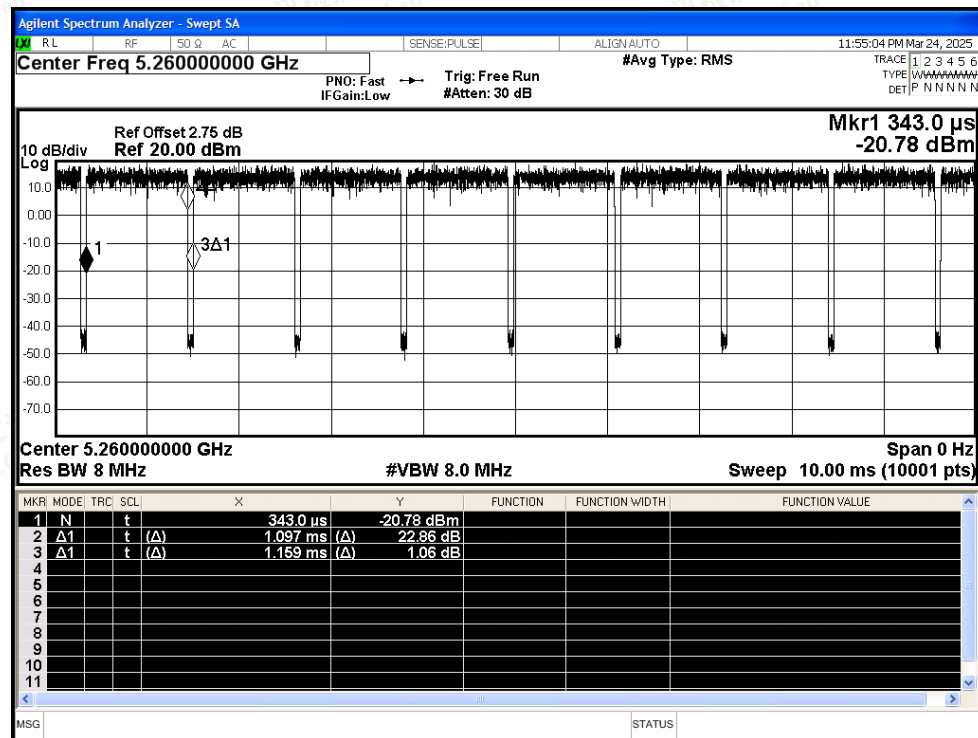
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5260	Ant	94.65	0.24	0.91
NVNT	a	5300	Ant	94.56	0.24	0.91
NVNT	a	5320	Ant	94.65	0.24	0.91
NVNT	n20	5260	Ant	97.29	0.12	0.44
NVNT	n20	5300	Ant	97.29	0.12	0.44
NVNT	n20	5320	Ant	97.33	0.12	0.44
NVNT	n40	5270	Ant	94.79	0.23	0.9
NVNT	n40	5310	Ant	94.71	0.24	0.9



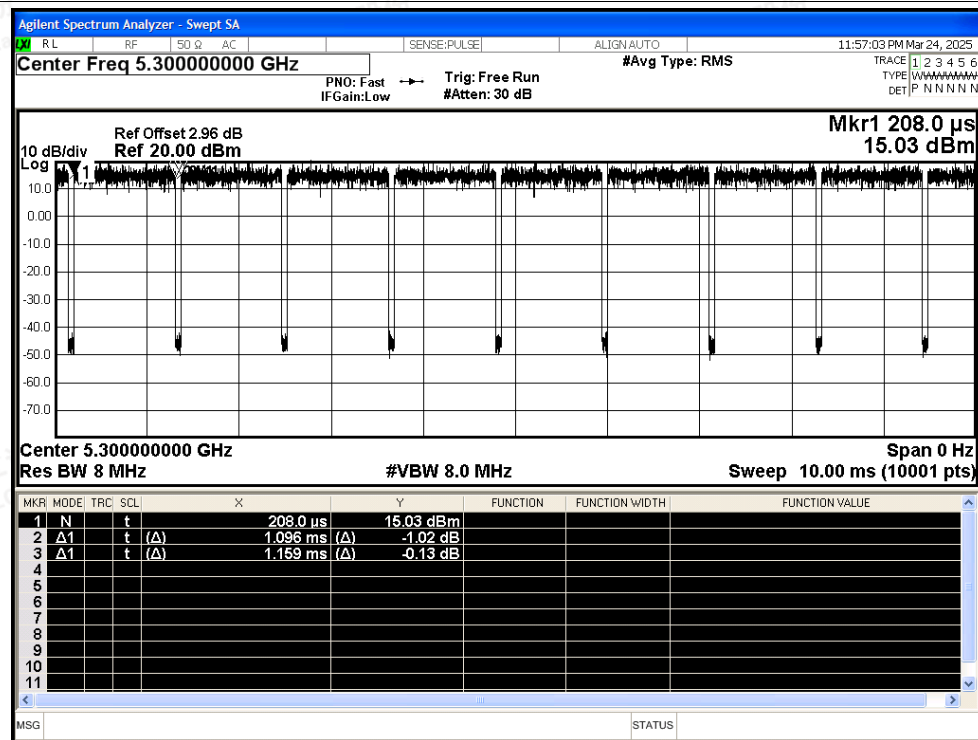


Test Graphs

Duty Cycle NVNT a 5260MHz Ant



Duty Cycle NVNT a 5300MHz Ant



Shenzhen LCS Compliance Testing Laboratory Ltd.

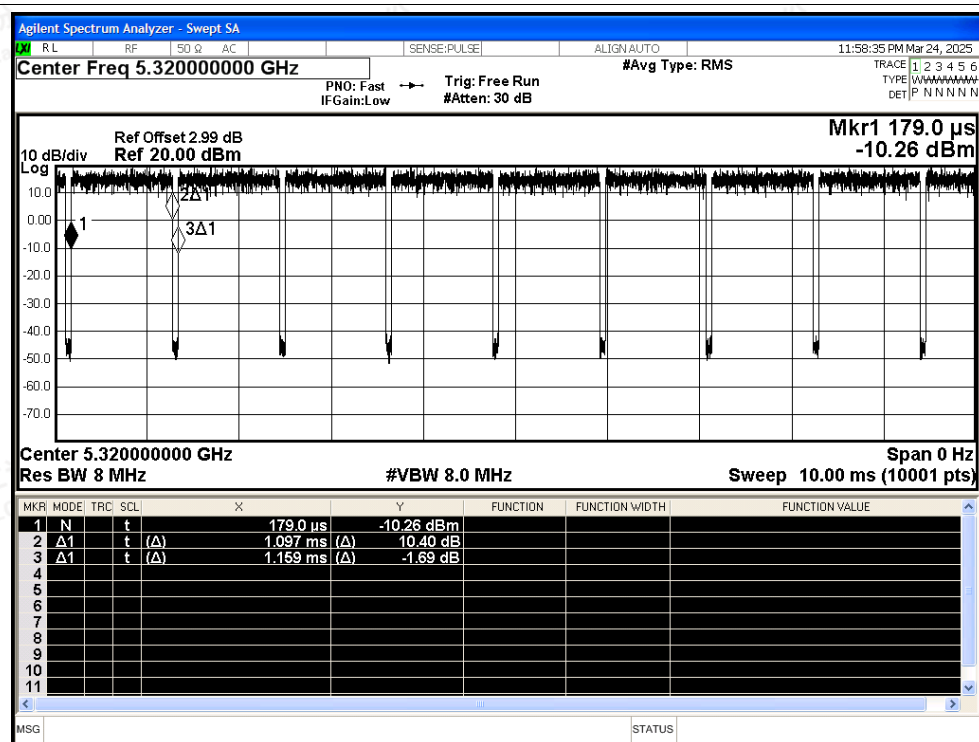
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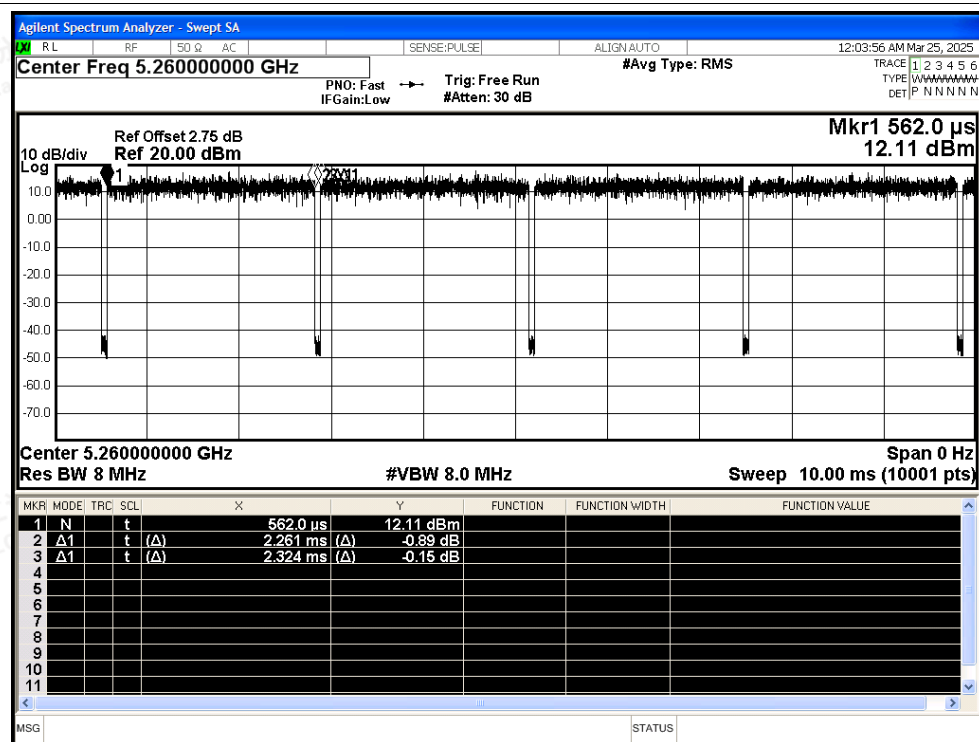
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Duty Cycle NVNT a 5320MHz Ant



Duty Cycle NVNT n20 5260MHz Ant



Shenzhen LCS Compliance Testing Laboratory Ltd.

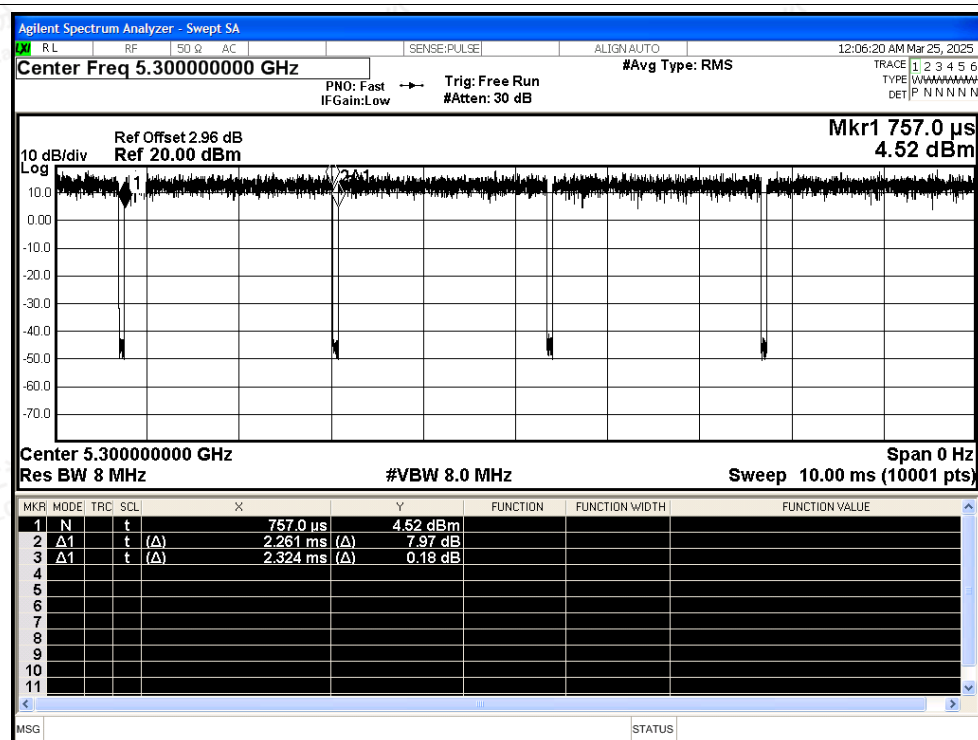
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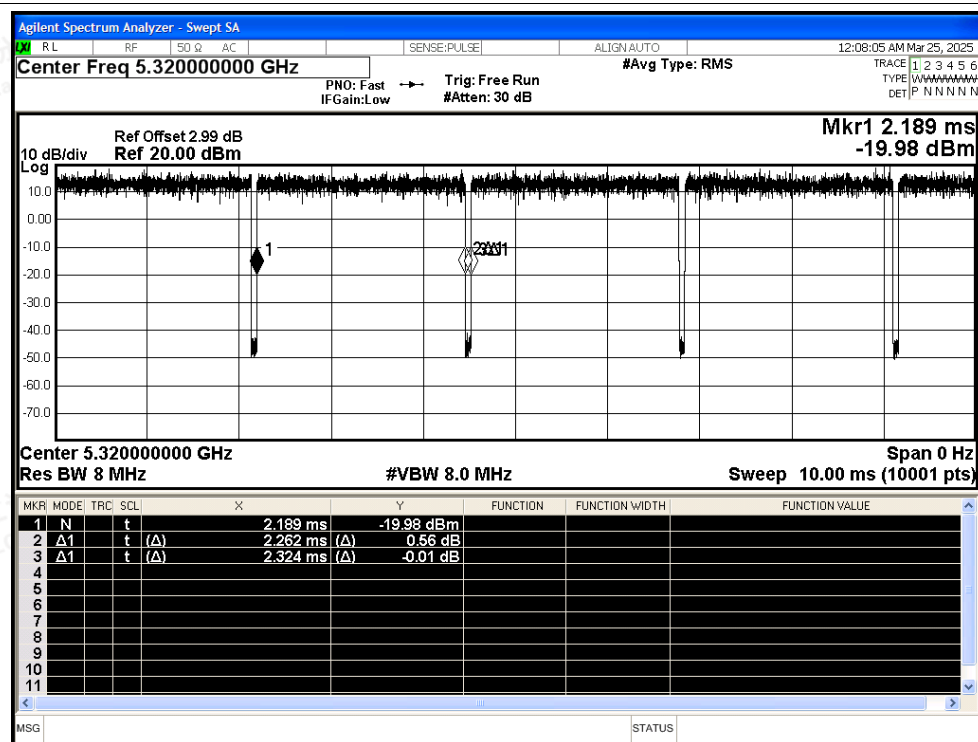
Scan code to check authenticity



Duty Cycle NVNT n20 5300MHz Ant



Duty Cycle NVNT n20 5320MHz Ant



Shenzhen LCS Compliance Testing Laboratory Ltd.

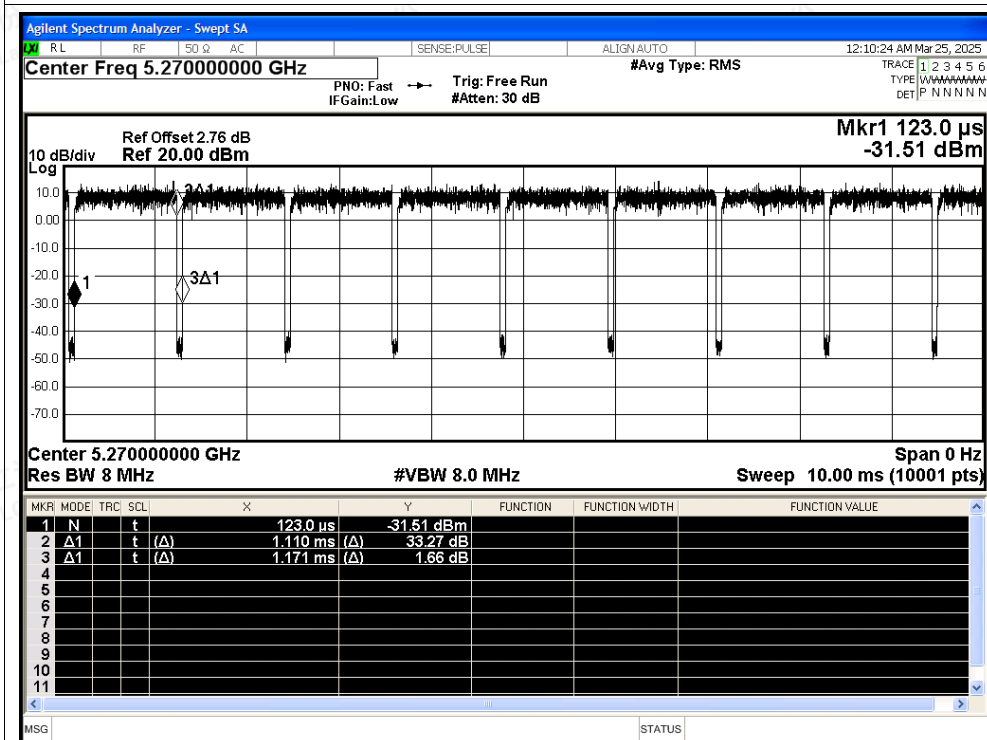
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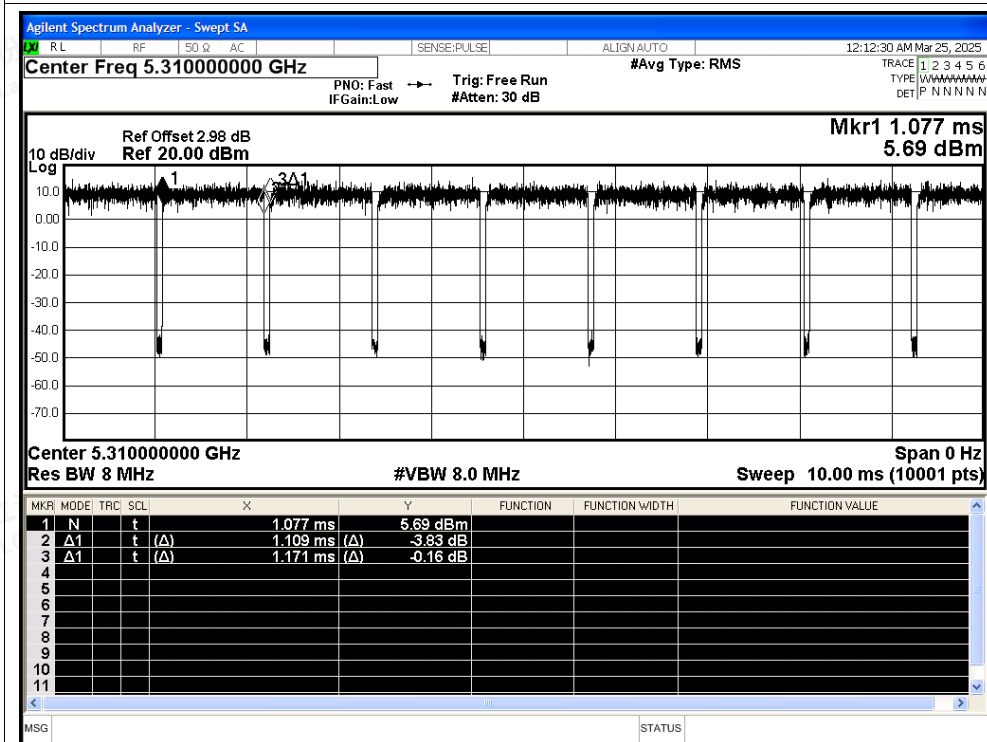
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Duty Cycle NVNT n40 5270MHz Ant



Duty Cycle NVNT n40 5310MHz Ant



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