



Appendix E

RF Test Data for 5.3G WIFI (Conducted Measurement)

Product Name: Oti-Bot

Test Model: IT10287

Environmental Conditions

Temperature:	21.1° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Monkey Li
Supervised by:	Li Huan



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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	Ant1	28.198	0.5	Pass
NVNT	a	5300	Ant1	29.716	0.5	Pass
NVNT	a	5320	Ant1	29.959	0.5	Pass
NVNT	n20	5260	Ant1	29.614	0.5	Pass
NVNT	n20	5300	Ant1	29.952	0.5	Pass
NVNT	n20	5320	Ant1	29.506	0.5	Pass
NVNT	n40	5270	Ant1	59.725	0.5	Pass
NVNT	n40	5310	Ant1	59.78	0.5	Pass
NVNT	ac20	5260	Ant1	28.643	0.5	Pass
NVNT	ac20	5300	Ant1	29.961	0.5	Pass
NVNT	ac20	5320	Ant1	29.587	0.5	Pass
NVNT	ac40	5270	Ant1	59.772	0.5	Pass
NVNT	ac40	5310	Ant1	59.843	0.5	Pass



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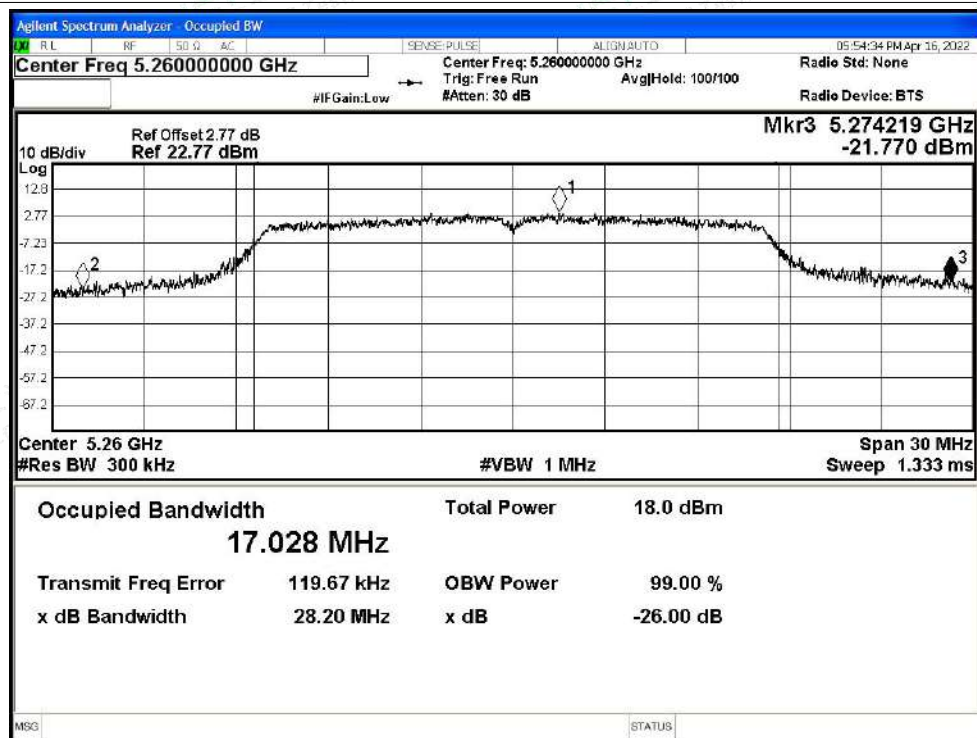
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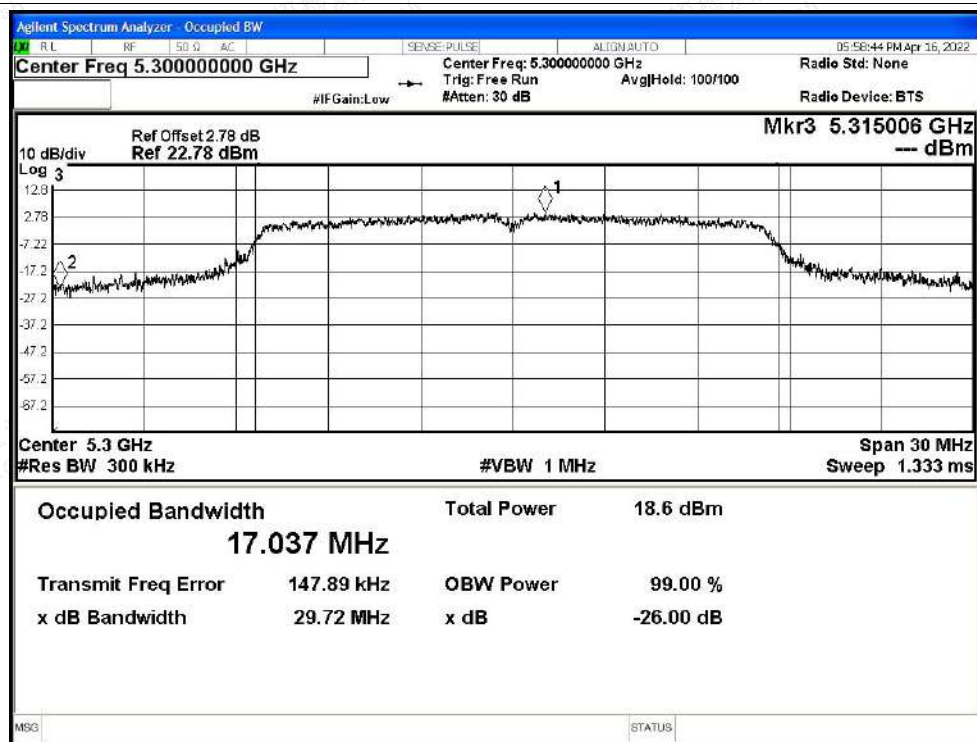


Test Graphs

26dB Bandwidth NVNT a 5260MHz Ant1



26dB Bandwidth NVNT a 5300MHz Ant1



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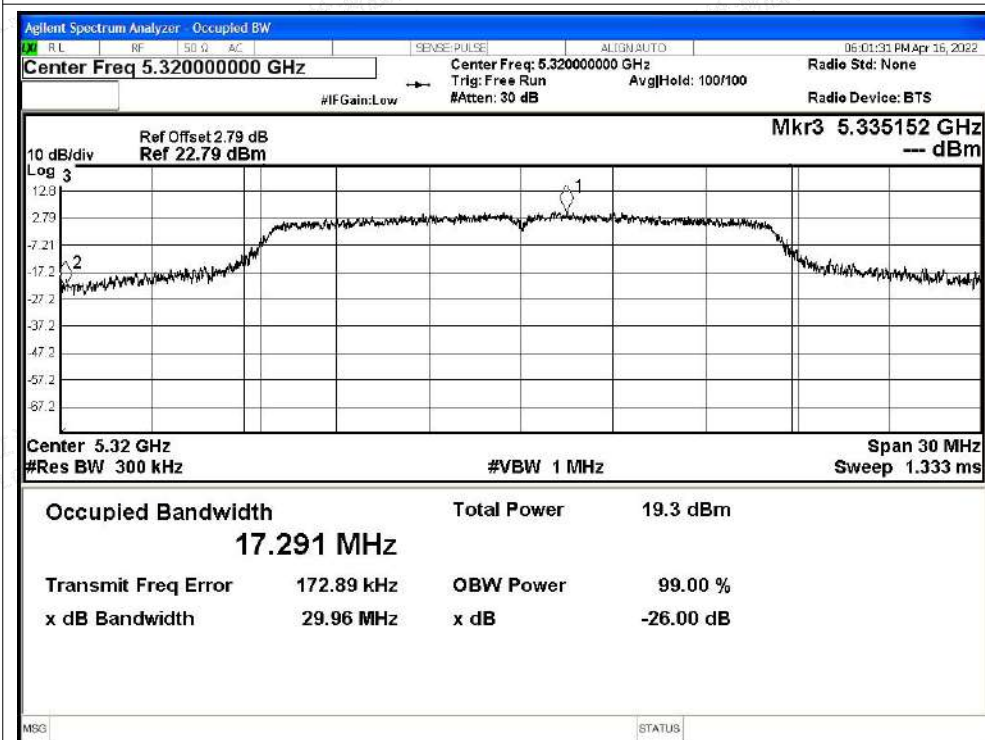
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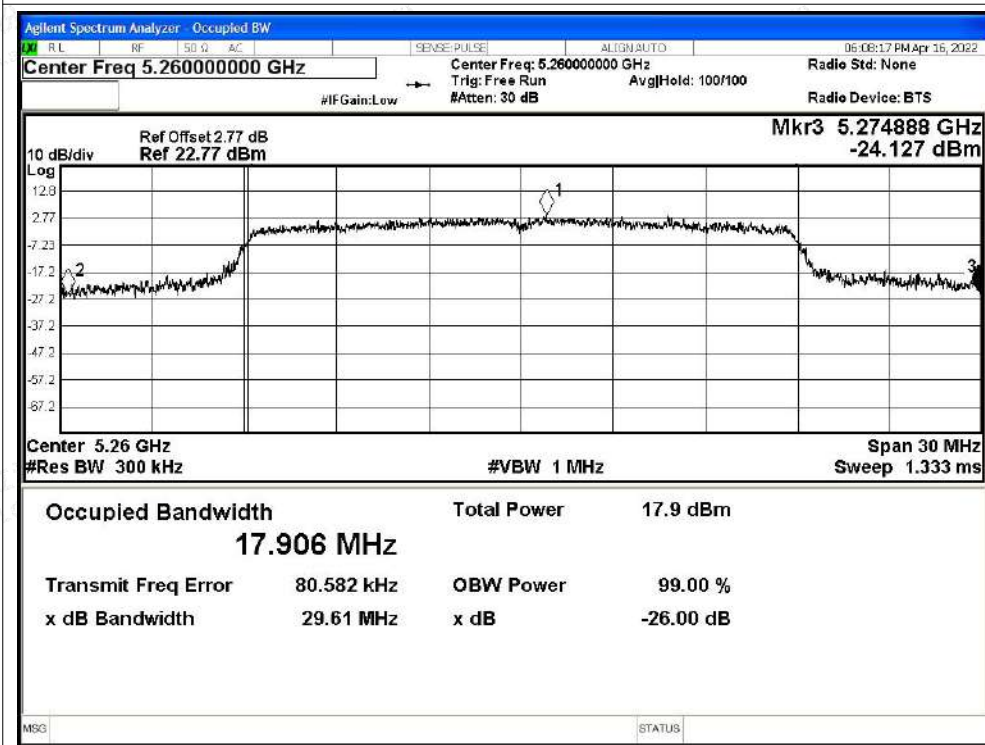
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26dB Bandwidth NVNT a 5320MHz Ant1



26dB Bandwidth NVNT n20 5260MHz Ant1



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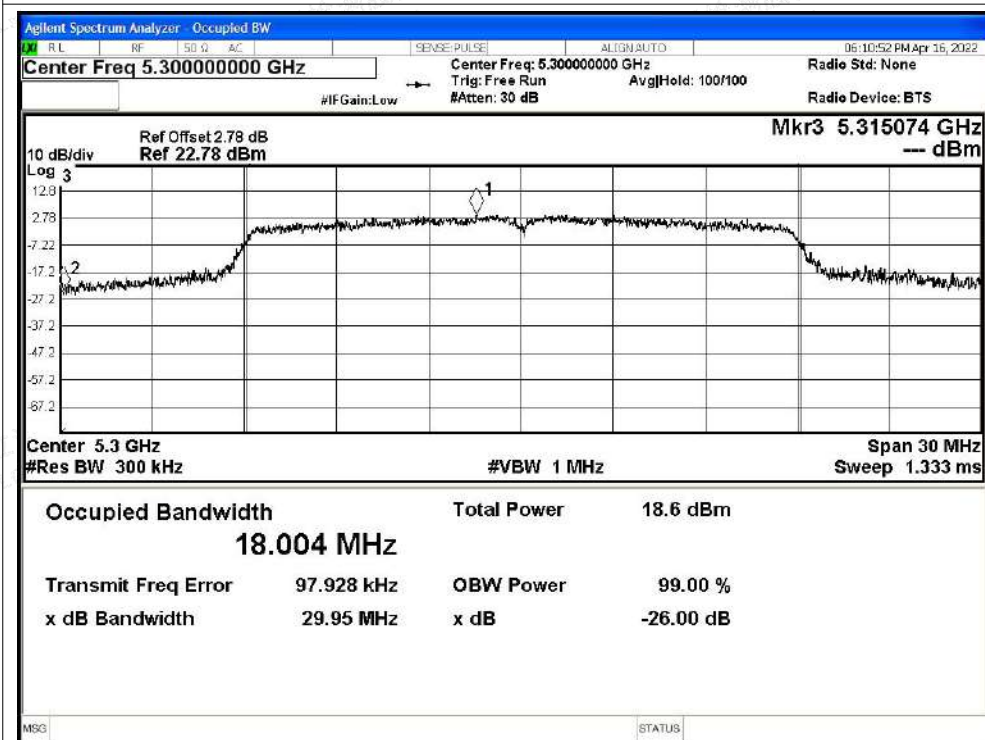
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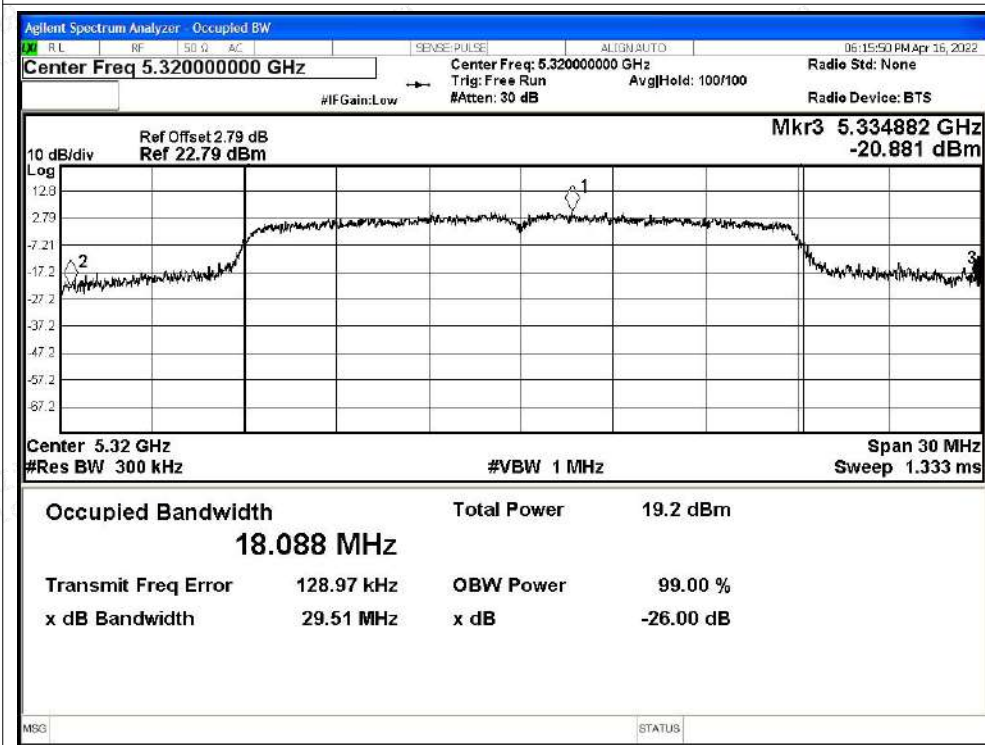
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26dB Bandwidth NVNT n20 5300MHz Ant1



26dB Bandwidth NVNT n20 5320MHz Ant1



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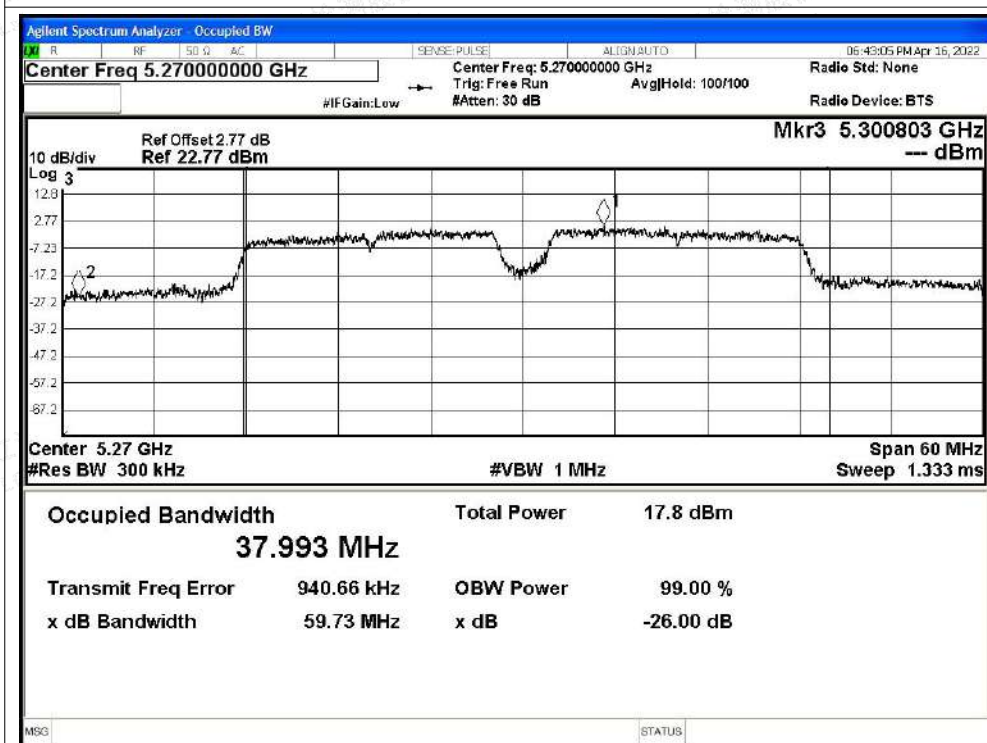
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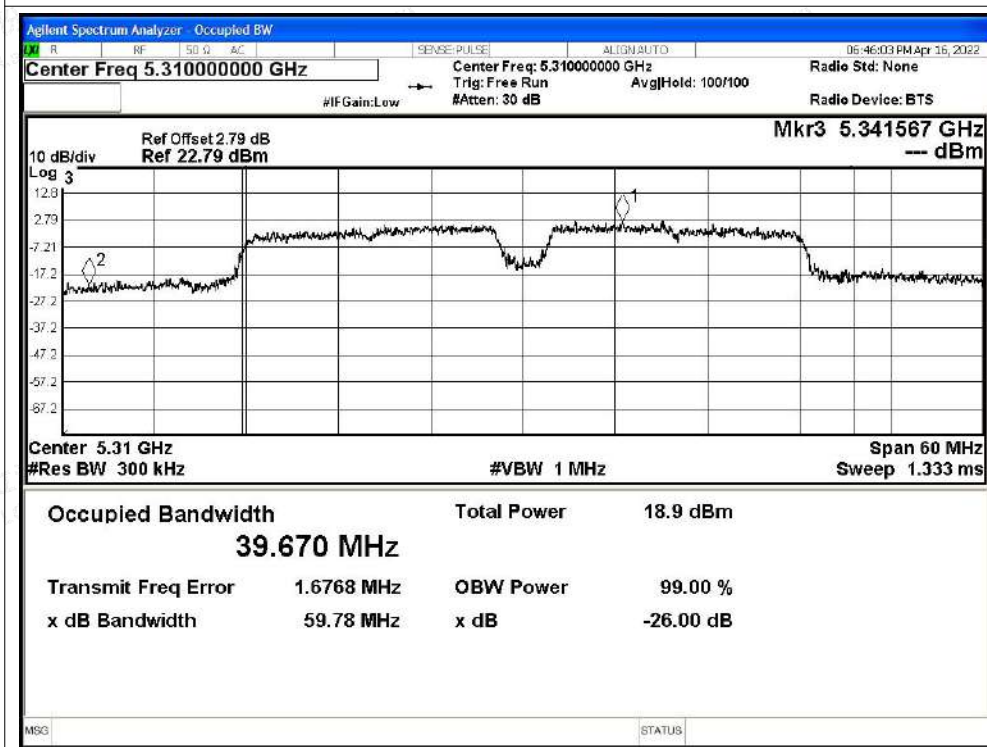
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26dB Bandwidth NVNT n40 5270MHz Ant1



26dB Bandwidth NVNT n40 5310MHz Ant1



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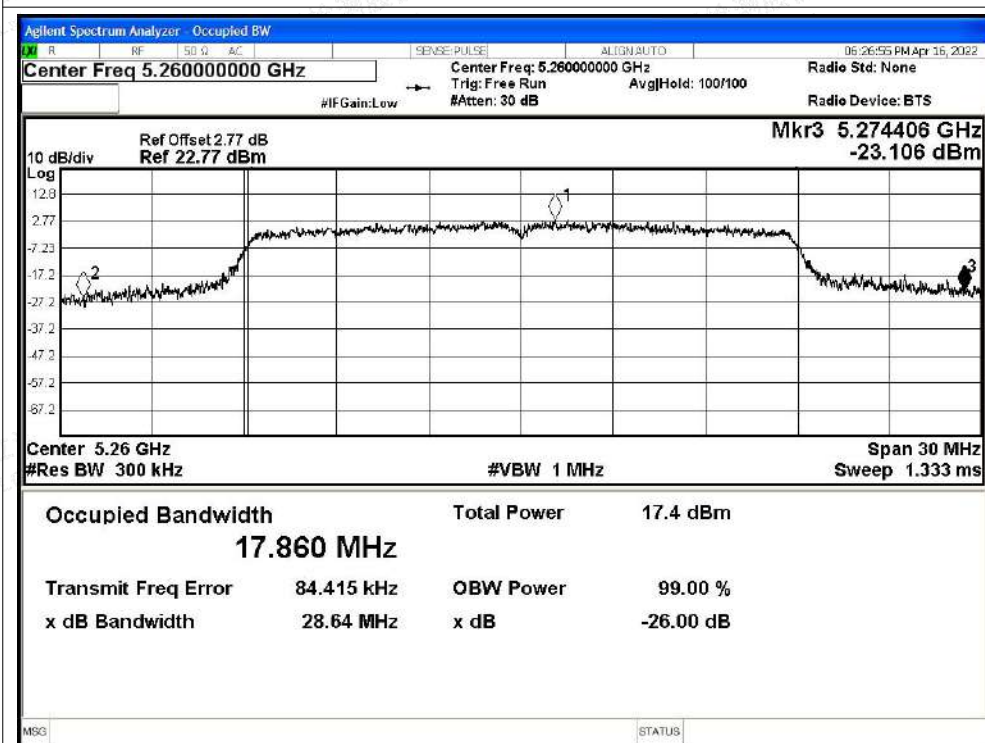
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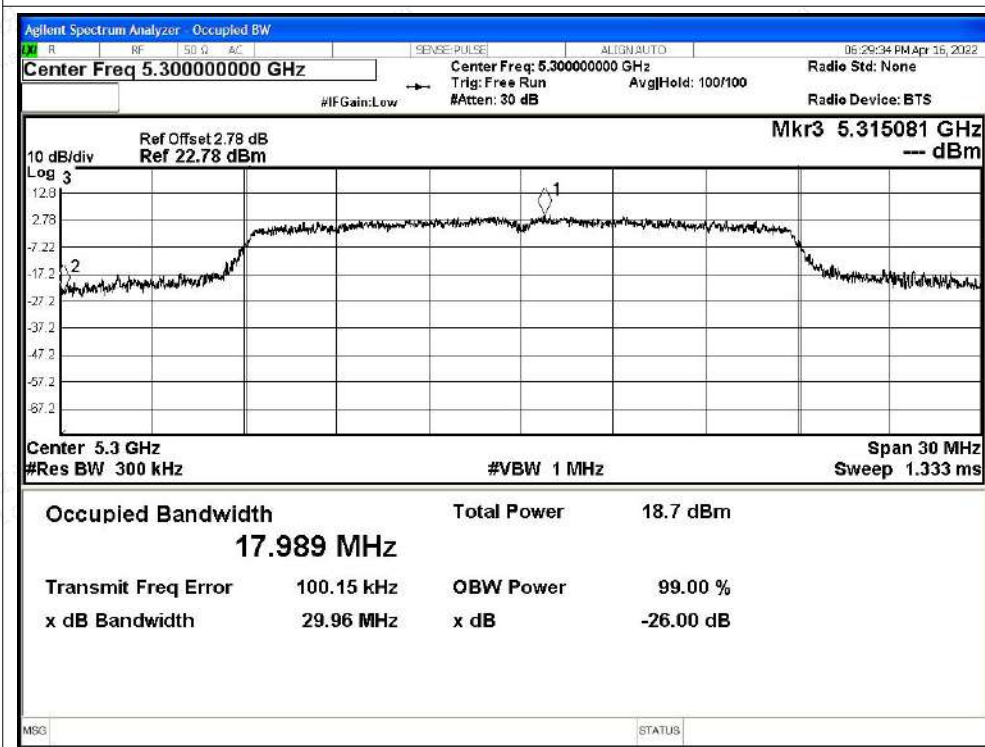
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26dB Bandwidth NVNT ac20 5260MHz Ant1



26dB Bandwidth NVNT ac20 5300MHz Ant1



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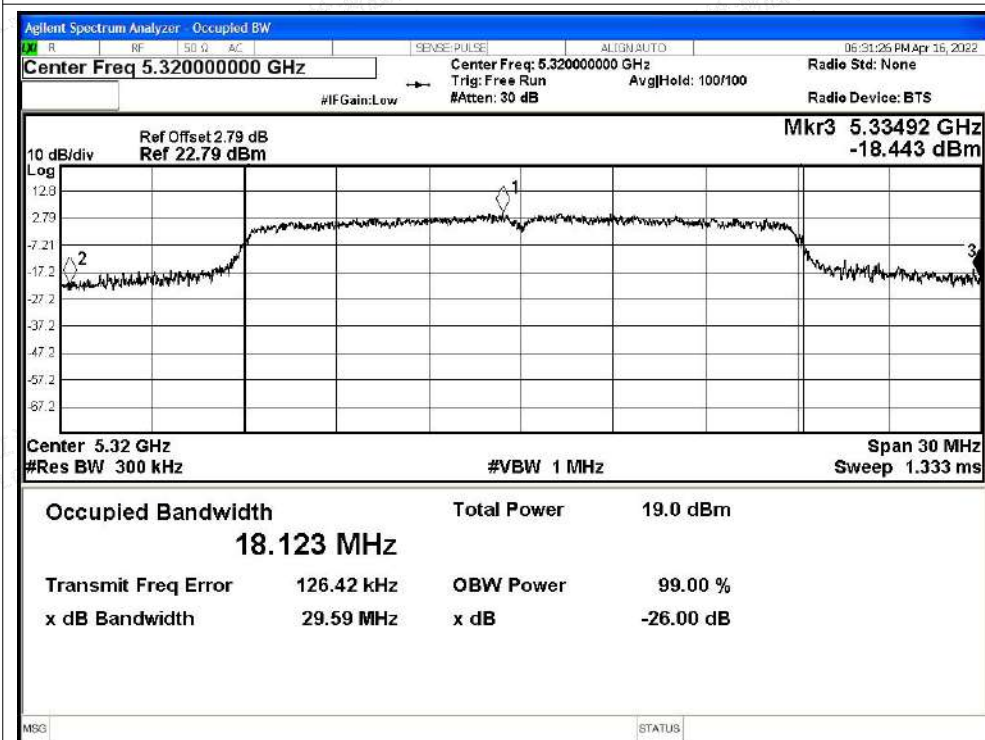
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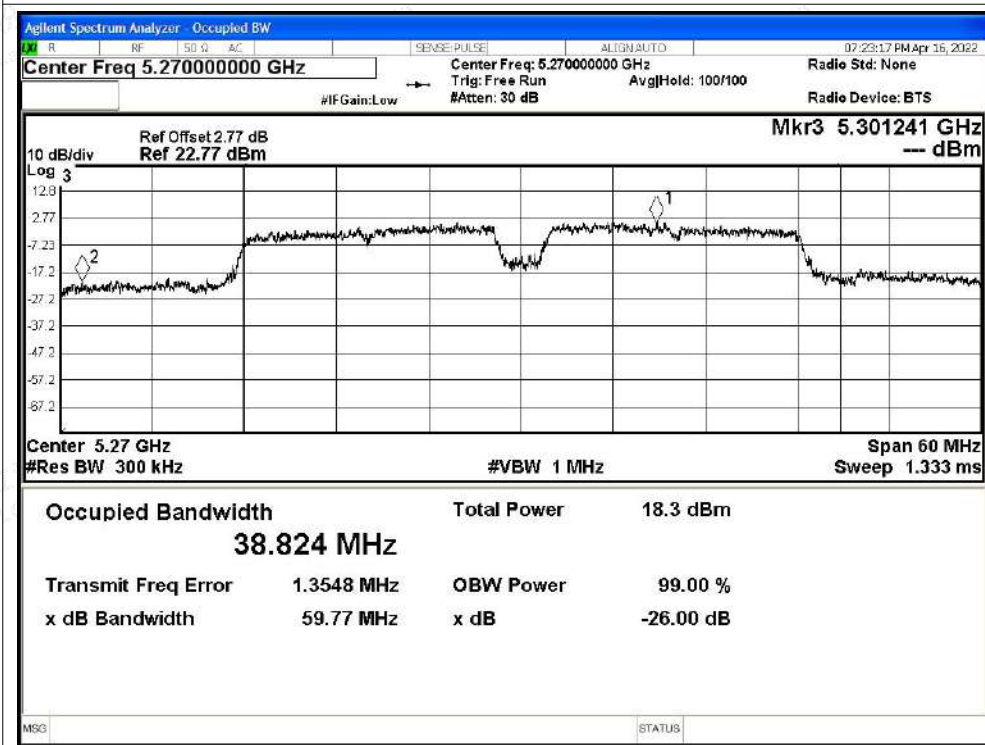
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26dB Bandwidth NVNT ac20 5320MHz Ant1



26dB Bandwidth NVNT ac40 5270MHz Ant1

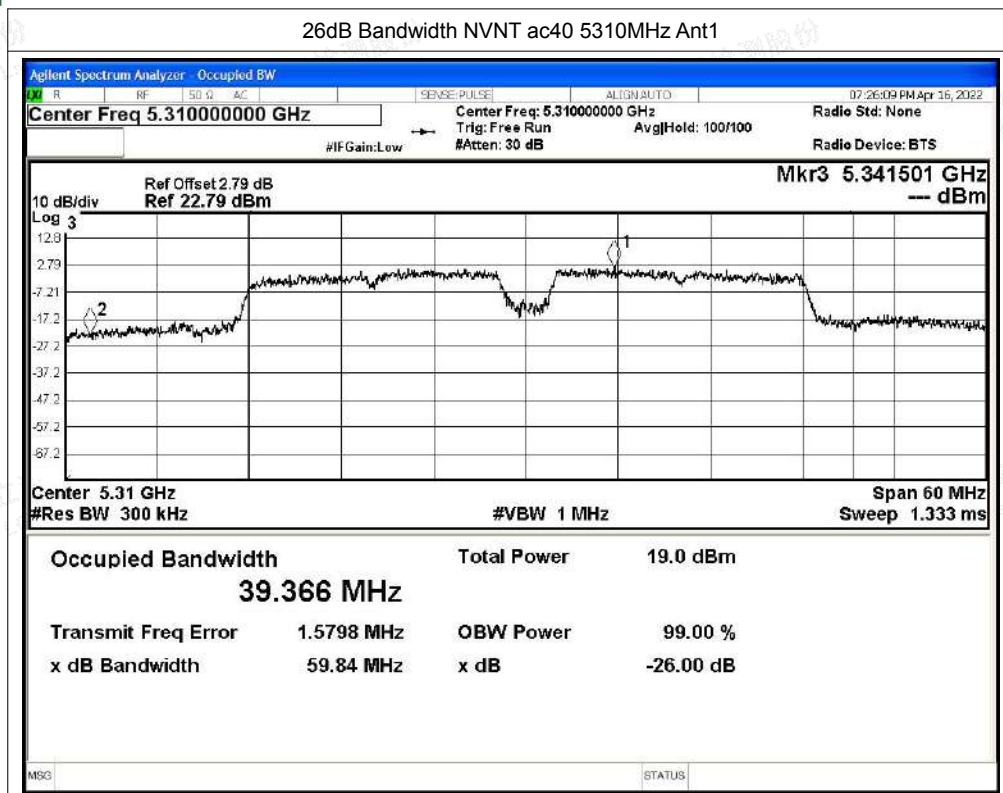


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E.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5260	Ant1	12.48	24	Pass
NVNT	a	5300	Ant1	13.13	24	Pass
NVNT	a	5320	Ant1	13.54	24	Pass
NVNT	n20	5260	Ant1	12.38	24	Pass
NVNT	n20	5300	Ant1	13.06	24	Pass
NVNT	n20	5320	Ant1	13.59	24	Pass
NVNT	n40	5270	Ant1	11.81	24	Pass
NVNT	n40	5310	Ant1	13.16	24	Pass
NVNT	ac20	5260	Ant1	11.95	24	Pass
NVNT	ac20	5300	Ant1	13.22	24	Pass
NVNT	ac20	5320	Ant1	13.53	24	Pass
NVNT	ac40	5270	Ant1	12.35	24	Pass
NVNT	ac40	5310	Ant1	13.15	24	Pass

Note: The Duty Cycle Factor is compensated in the graph.



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E.3 Maximum Power Spectral Density

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5260	Ant1	-0.88	0.11	-0.77	11	Pass
NVNT	a	5300	Ant1	1.03	0.11	1.14	11	Pass
NVNT	a	5320	Ant1	0.12	0.11	0.23	11	Pass
NVNT	n20	5260	Ant1	0.53	0.12	0.65	11	Pass
NVNT	n20	5300	Ant1	0.58	0.12	0.7	11	Pass
NVNT	n20	5320	Ant1	1.21	0.12	1.33	11	Pass
NVNT	n40	5270	Ant1	-9.11	0.1	-9.01	11	Pass
NVNT	n40	5310	Ant1	-6.06	0.1	-5.96	11	Pass
NVNT	ac20	5260	Ant1	-0.52	0.12	-0.4	11	Pass
NVNT	ac20	5300	Ant1	0.74	0.12	0.86	11	Pass
NVNT	ac20	5320	Ant1	1.11	0.11	1.22	11	Pass
NVNT	ac40	5270	Ant1	-5.89	0.1	-5.79	11	Pass
NVNT	ac40	5310	Ant1	-5.62	0.1	-5.52	11	Pass



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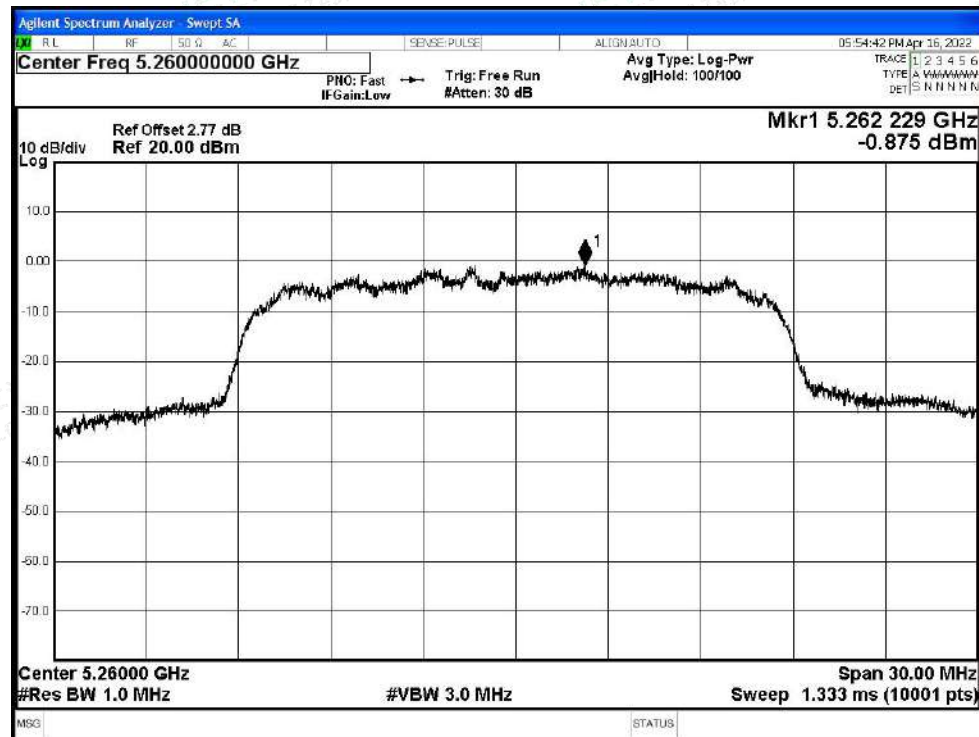
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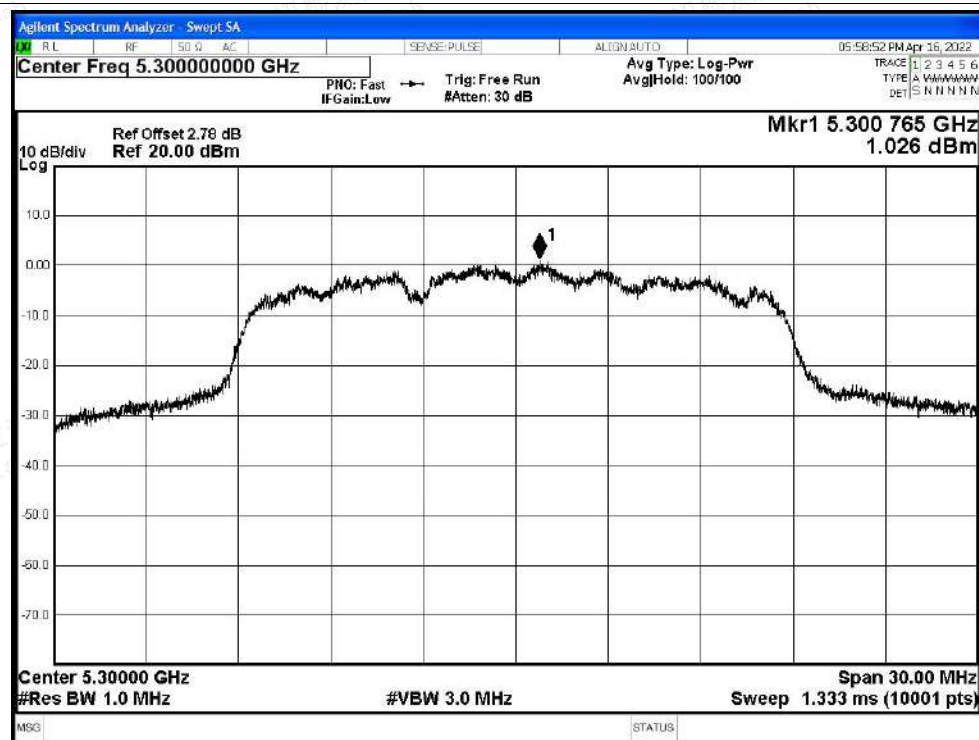


Test Graphs

PSD NVNT a 5260MHz Ant1



PSD NVNT a 5300MHz Ant1



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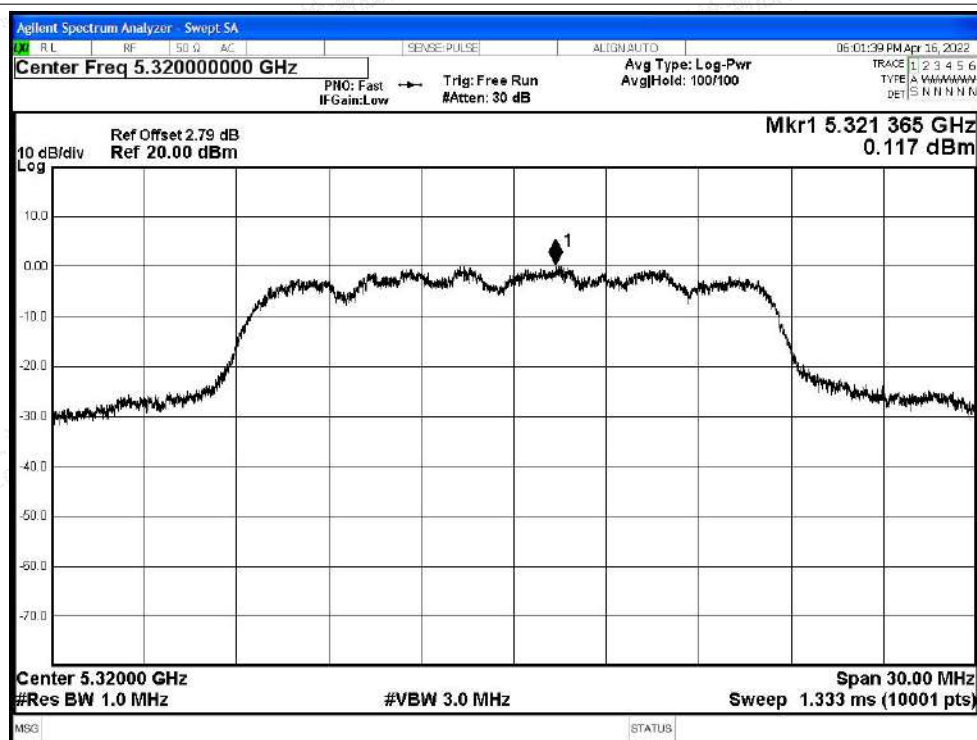
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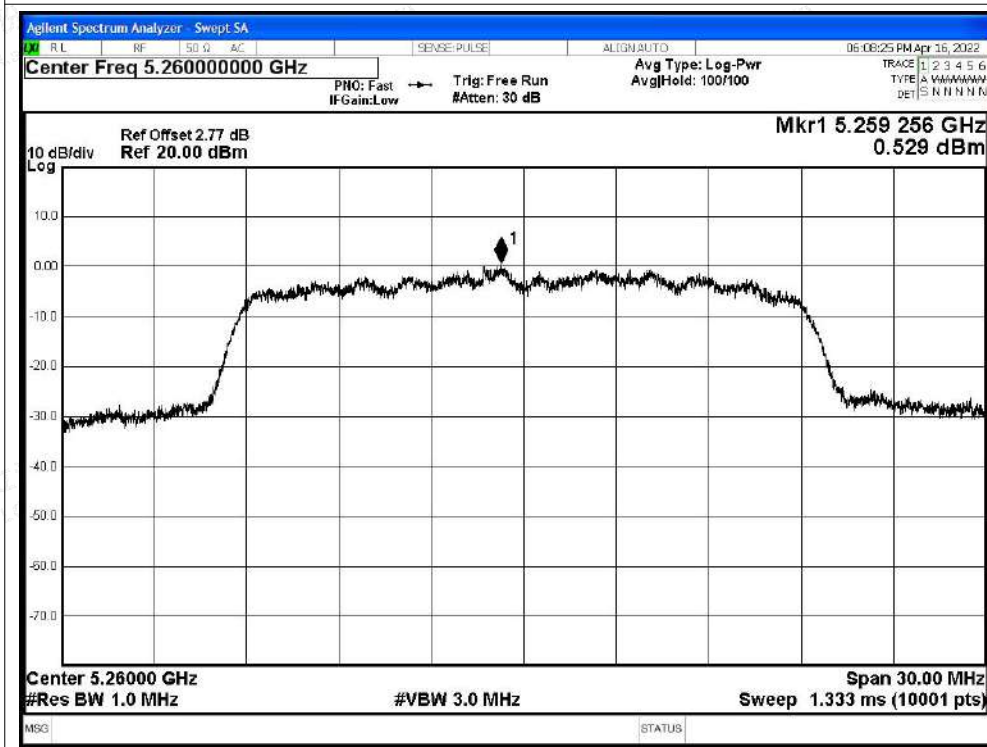
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PSD NVNT a 5320MHz Ant1



PSD NVNT n20 5260MHz Ant1



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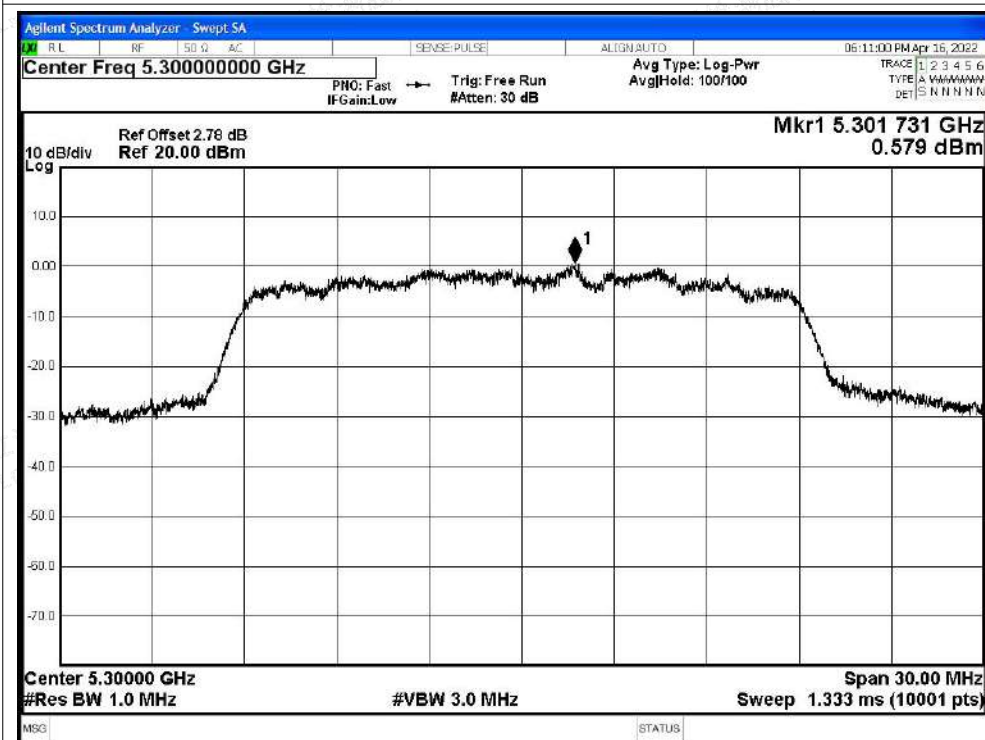
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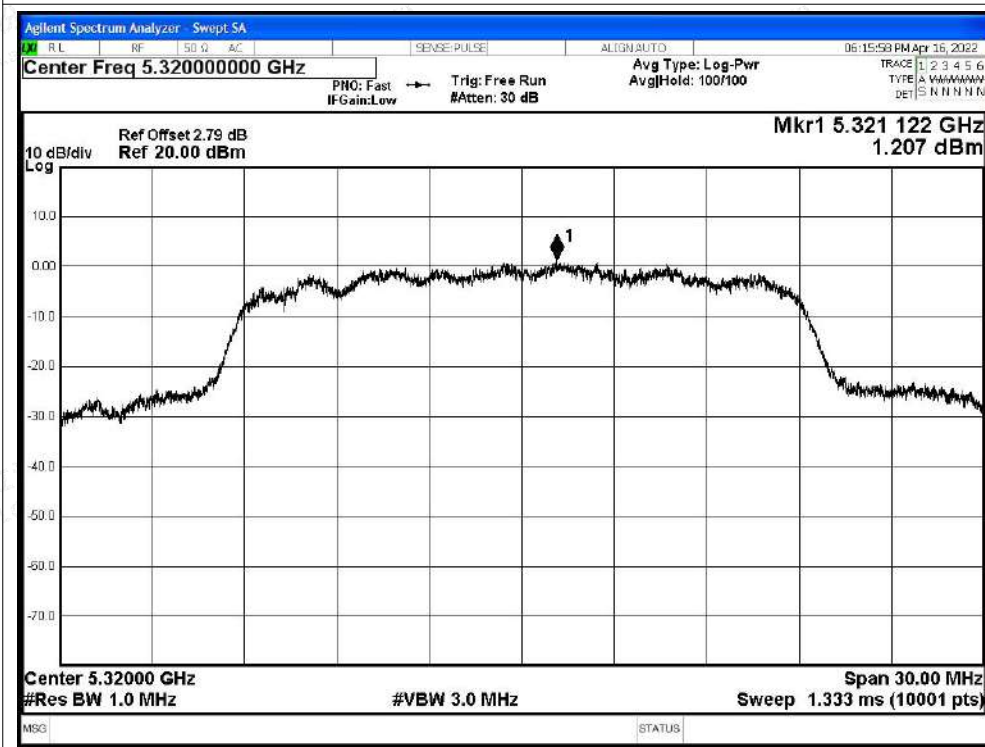
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PSD NVNT n20 5300MHz Ant1



PSD NVNT n20 5320MHz Ant1



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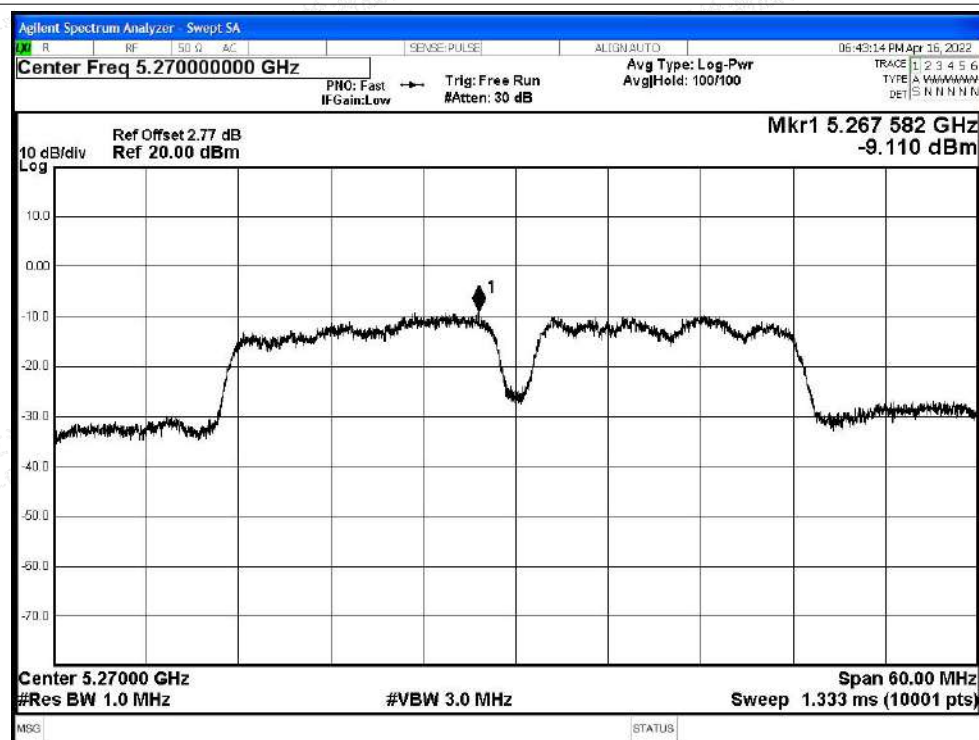
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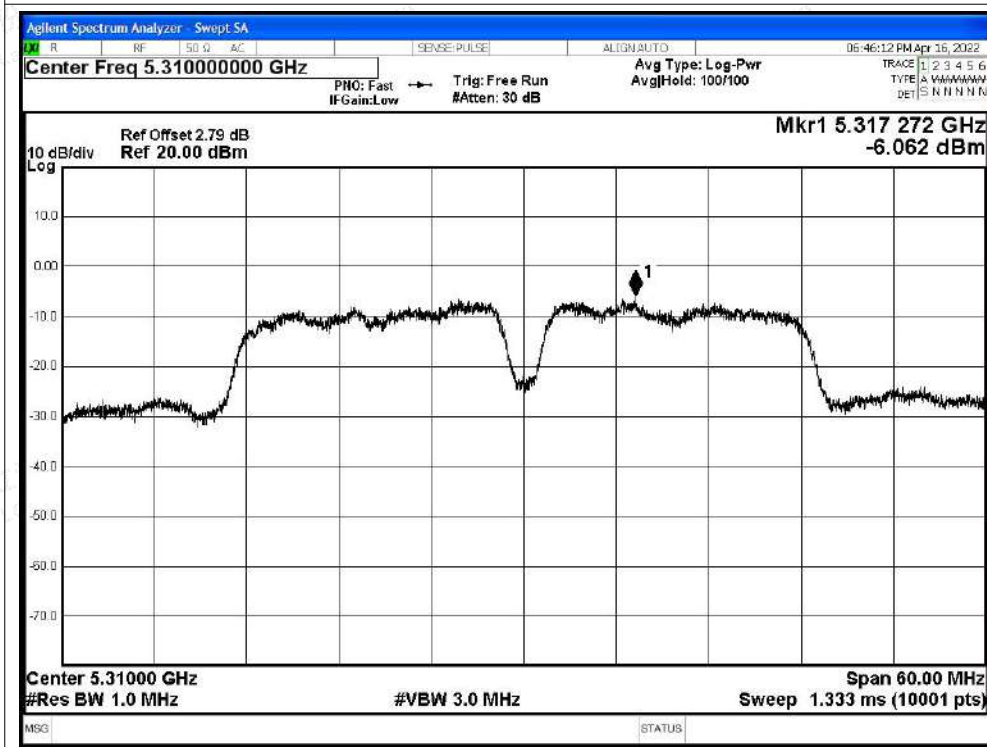
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PSD NVNT n40 5270MHz Ant1



PSD NVNT n40 5310MHz Ant1



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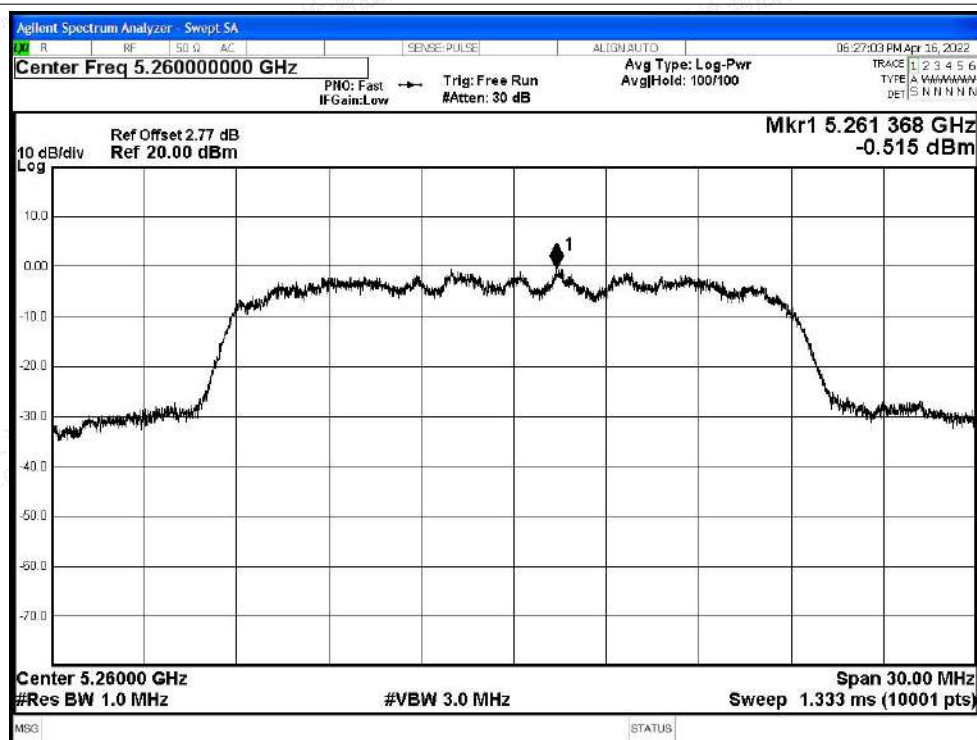
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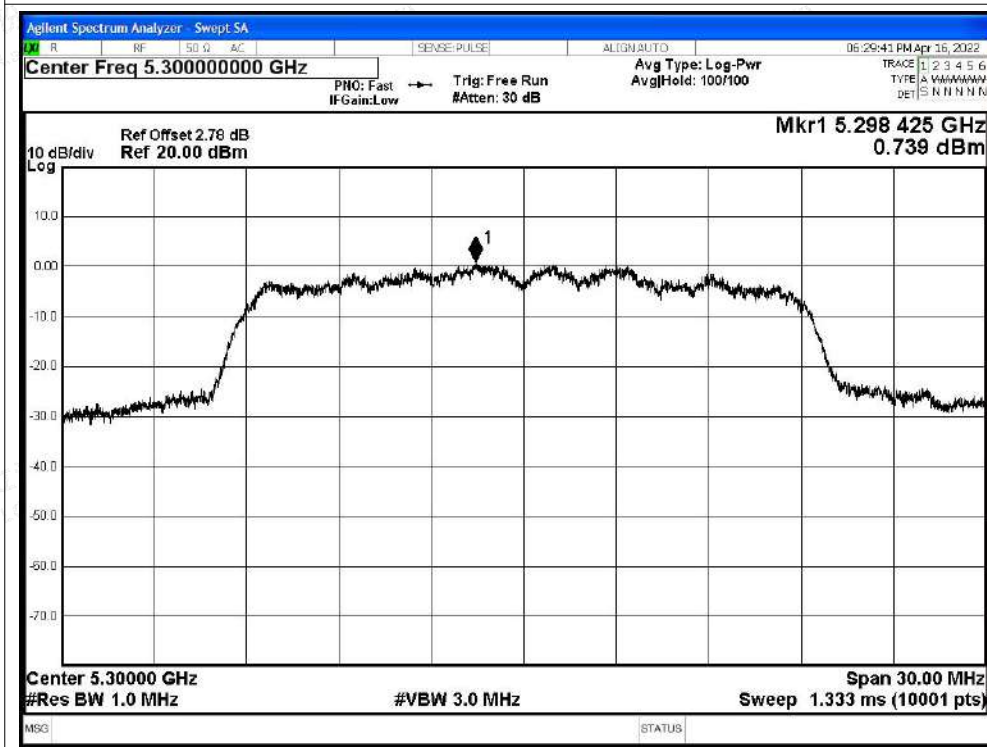
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PSD NVNT ac20 5260MHz Ant1



PSD NVNT ac20 5300MHz Ant1



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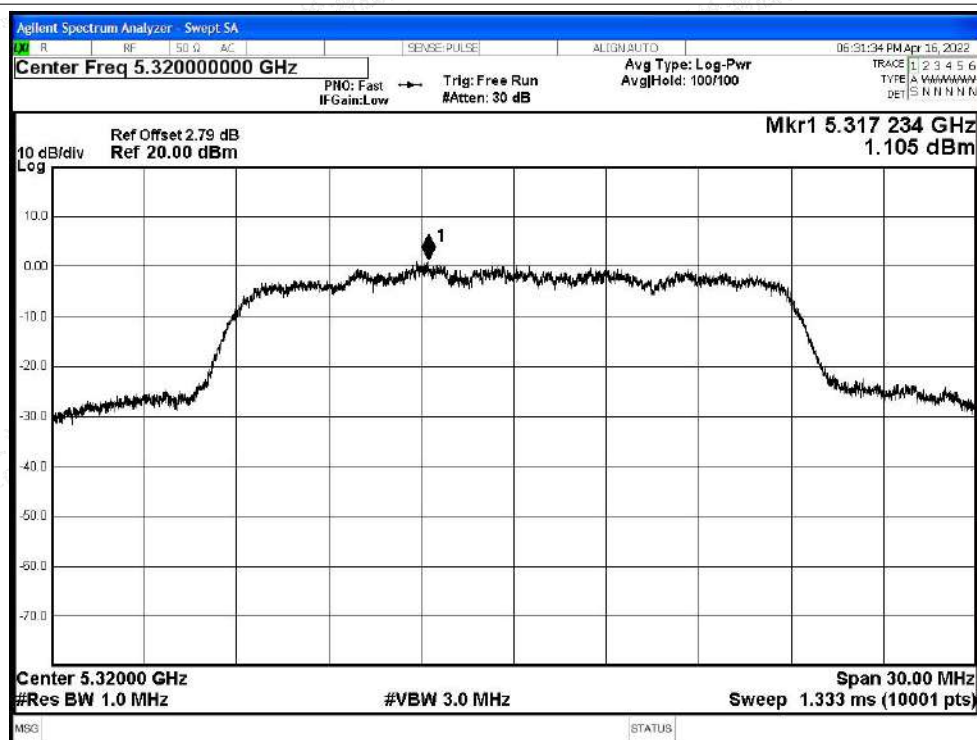
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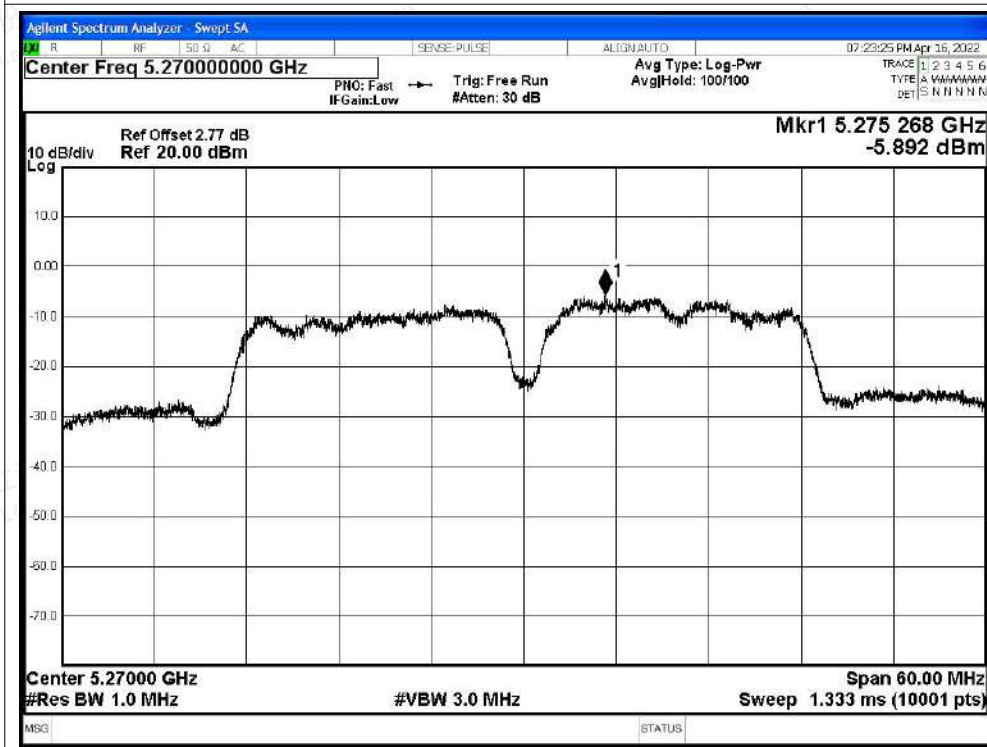
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PSD NVNT ac20 5320MHz Ant1



PSD NVNT ac40 5270MHz Ant1

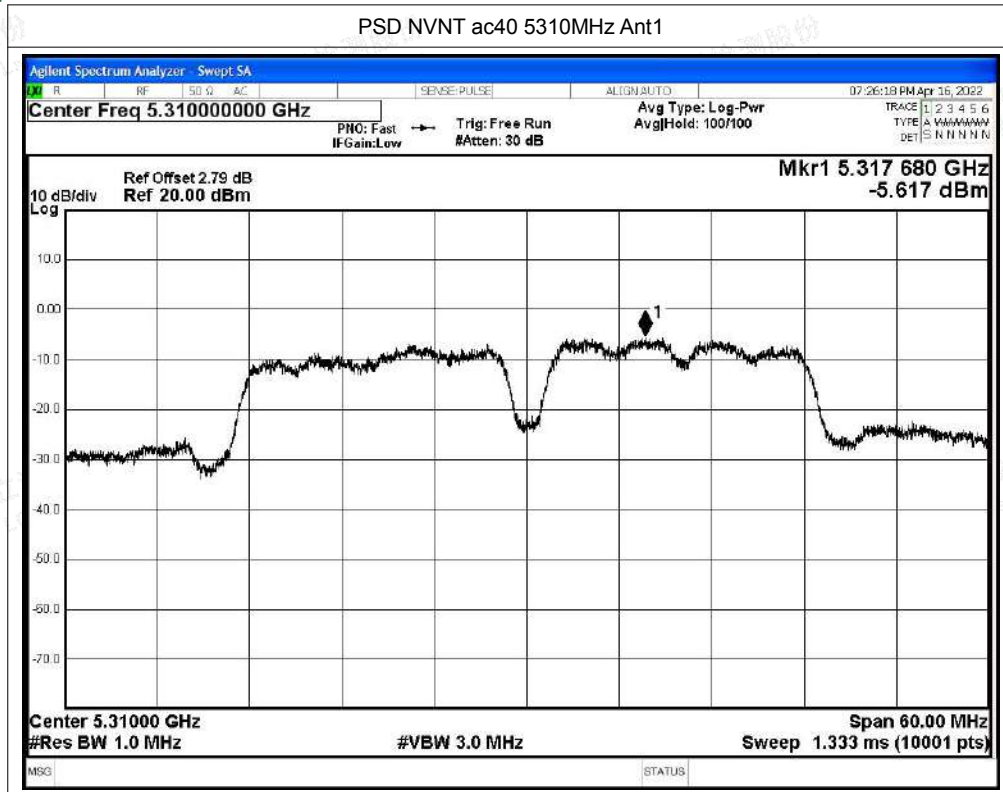


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E.4 Restrict Band

Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	a	5260	Ant1	4500	-51.1	2	46.13	Peak	68.2	Pass
NVNT	a	5260	Ant1	4500	-60.39	2	36.84	Average	54	Pass
NVNT	a	5260	Ant1	5102.94	-46.87	2	50.36	Peak	68.2	Pass
NVNT	a	5260	Ant1	5106.84	-57.34	2	39.89	Average	54	Pass
NVNT	a	5260	Ant1	5150	-49.34	2	47.89	Peak	68.2	Pass
NVNT	a	5260	Ant1	5150	-57.71	2	39.52	Average	54	Pass
NVNT	a	5320	Ant1	5350	-34.53	2	62.7	Peak	68.2	Pass
NVNT	a	5320	Ant1	5350	-47.58	2	49.65	Average	54	Pass
NVNT	a	5320	Ant1	5351.2	-34.3	2	62.93	Peak	68.2	Pass
NVNT	a	5320	Ant1	5350.2	-47.55	2	49.68	Average	54	Pass
NVNT	a	5320	Ant1	5460	-47.99	2	49.24	Peak	68.2	Pass
NVNT	a	5320	Ant1	5460	-57.49	2	39.74	Average	54	Pass
NVNT	n20	5260	Ant1	4500	-50.4	2	46.83	Peak	68.2	Pass
NVNT	n20	5260	Ant1	4500	-60.39	2	36.84	Average	54	Pass
NVNT	n20	5260	Ant1	5135.7	-46.35	2	50.88	Peak	68.2	Pass
NVNT	n20	5260	Ant1	5106.84	-57.08	2	40.15	Average	54	Pass
NVNT	n20	5260	Ant1	5150	-47.92	2	49.31	Peak	68.2	Pass
NVNT	n20	5260	Ant1	5150	-57.78	2	39.45	Average	54	Pass
NVNT	n20	5320	Ant1	5350	-44.01	2	53.22	Peak	68.2	Pass
NVNT	n20	5320	Ant1	5350	-54.21	2	43.02	Average	54	Pass
NVNT	n20	5320	Ant1	5350.2	-42.64	2	54.59	Peak	68.2	Pass
NVNT	n20	5320	Ant1	5350.6	-54.13	2	43.1	Average	54	Pass
NVNT	n20	5320	Ant1	5460	-48.27	2	48.96	Peak	68.2	Pass
NVNT	n20	5320	Ant1	5460	-58.8	2	38.43	Average	54	Pass
NVNT	n40	5270	Ant1	4500	-51.04	2	46.19	Peak	68.2	Pass
NVNT	n40	5270	Ant1	4500	-60.44	2	36.79	Average	54	Pass
NVNT	n40	5270	Ant1	4965.75	-40.08	2	57.15	Peak	68.2	Pass
NVNT	n40	5270	Ant1	5122.08	-57.13	2	40.1	Average	54	Pass
NVNT	n40	5270	Ant1	5150	-48.9	2	48.33	Peak	68.2	Pass
NVNT	n40	5270	Ant1	5150	-57.84	2	39.39	Average	54	Pass
NVNT	n40	5310	Ant1	5350	-42.06	2	55.17	Peak	68.2	Pass
NVNT	n40	5310	Ant1	5350	-53.65	2	43.58	Average	54	Pass
NVNT	n40	5310	Ant1	5350.2	-38.18	2	59.05	Peak	68.2	Pass
NVNT	n40	5310	Ant1	5350.2	-53.56	2	43.67	Average	54	Pass
NVNT	n40	5310	Ant1	5460	-50.47	2	46.76	Peak	68.2	Pass
NVNT	n40	5310	Ant1	5460	-58.74	2	38.49	Average	54	Pass
NVNT	ac20	5260	Ant1	4500	-51.7	2	45.53	Peak	68.2	Pass
NVNT	ac20	5260	Ant1	4500	-60.53	2	36.7	Average	54	Pass



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NVNT	ac20	5260	Ant1	5103.72	-47.14	2	50.09	Peak	68.2	Pass
NVNT	ac20	5260	Ant1	5106.06	-58.23	2	39	Average	54	Pass
NVNT	ac20	5260	Ant1	5150	-50.34	2	46.89	Peak	68.2	Pass
NVNT	ac20	5260	Ant1	5150	-58.58	2	38.65	Average	54	Pass
NVNT	ac20	5320	Ant1	5350	-47.36	2	49.87	Peak	68.2	Pass
NVNT	ac20	5320	Ant1	5350	-57.53	2	39.7	Average	54	Pass
NVNT	ac20	5320	Ant1	5350.8	-42.65	2	54.58	Peak	68.2	Pass
NVNT	ac20	5320	Ant1	5351	-57.45	2	39.78	Average	54	Pass
NVNT	ac20	5320	Ant1	5460	-50.72	2	46.51	Peak	68.2	Pass
NVNT	ac20	5320	Ant1	5460	-59.25	2	37.98	Average	54	Pass
NVNT	ac40	5270	Ant1	4500	-51	2	46.23	Peak	68.2	Pass
NVNT	ac40	5270	Ant1	4500	-60.49	2	36.74	Average	54	Pass
NVNT	ac40	5270	Ant1	5122.89	-45.74	2	51.49	Peak	68.2	Pass
NVNT	ac40	5270	Ant1	5122.08	-56.85	2	40.38	Average	54	Pass
NVNT	ac40	5270	Ant1	5150	-47.34	2	49.89	Peak	68.2	Pass
NVNT	ac40	5270	Ant1	5150	-57.93	2	39.3	Average	54	Pass
NVNT	ac40	5310	Ant1	5350	-43.15	2	54.08	Peak	68.2	Pass
NVNT	ac40	5310	Ant1	5350	-54.35	2	42.88	Average	54	Pass
NVNT	ac40	5310	Ant1	5350.2	-38.99	2	58.24	Peak	68.2	Pass
NVNT	ac40	5310	Ant1	5350.2	-54.34	2	42.89	Average	54	Pass
NVNT	ac40	5310	Ant1	5460	-48.99	2	48.24	Peak	68.2	Pass
NVNT	ac40	5310	Ant1	5460	-58.53	2	38.7	Average	54	Pass



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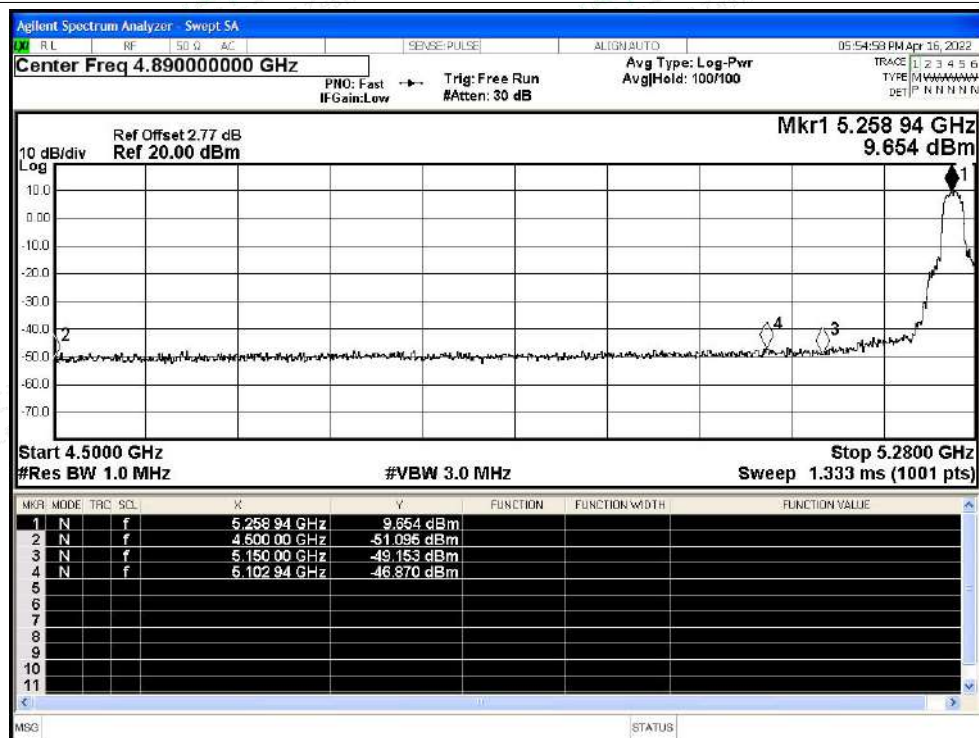
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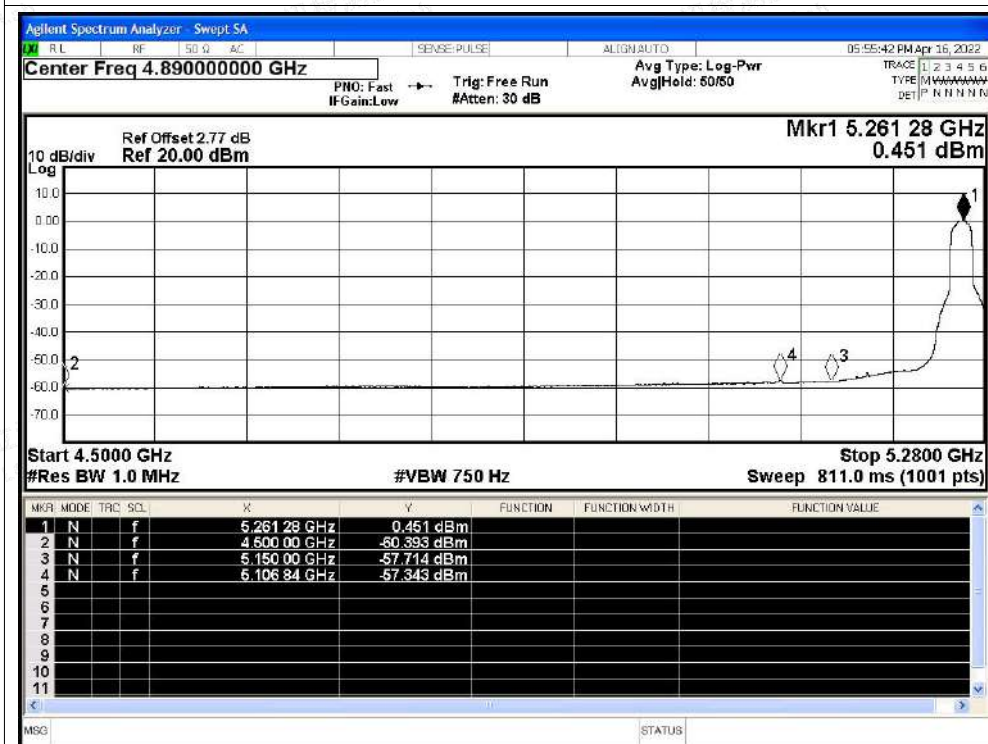


Test Graphs

Restrict Band NVNT a 5260MHz Ant1 Peak



Restrict Band NVNT a 5260MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

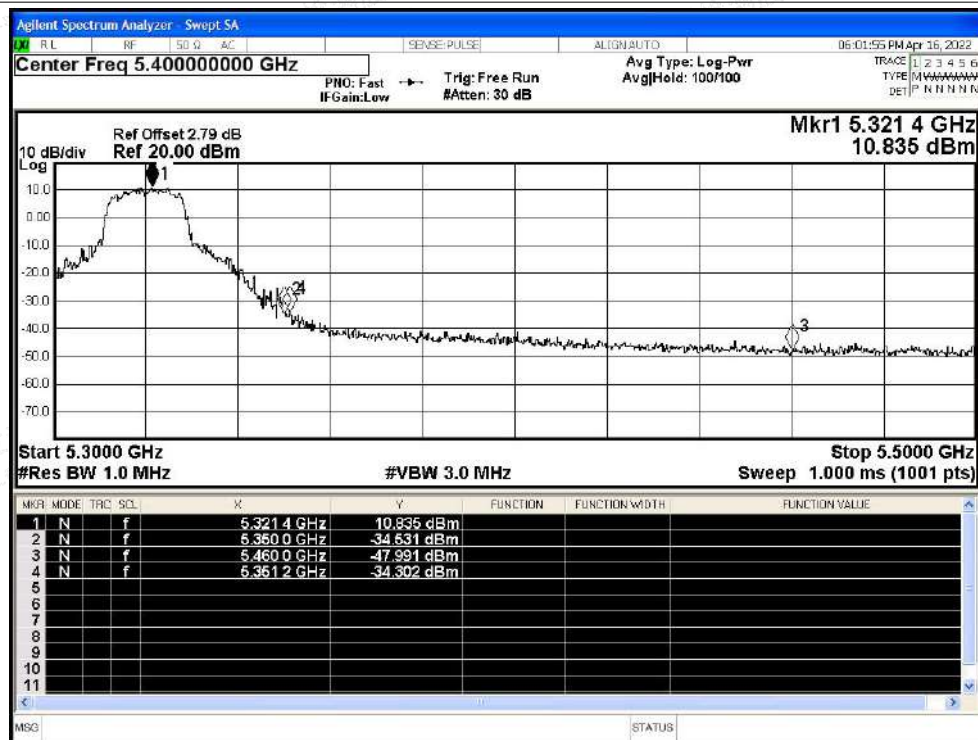
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

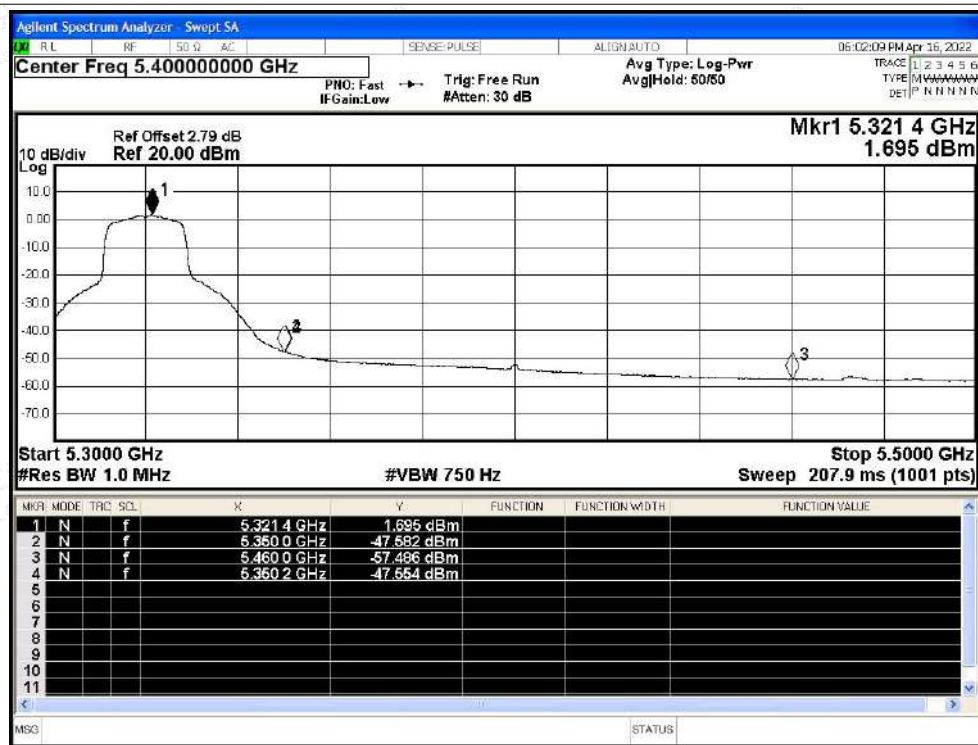
Scan code to check authenticity



Restrict Band NVNT a 5320MHz Ant1 Peak



Restrict Band NVNT a 5320MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

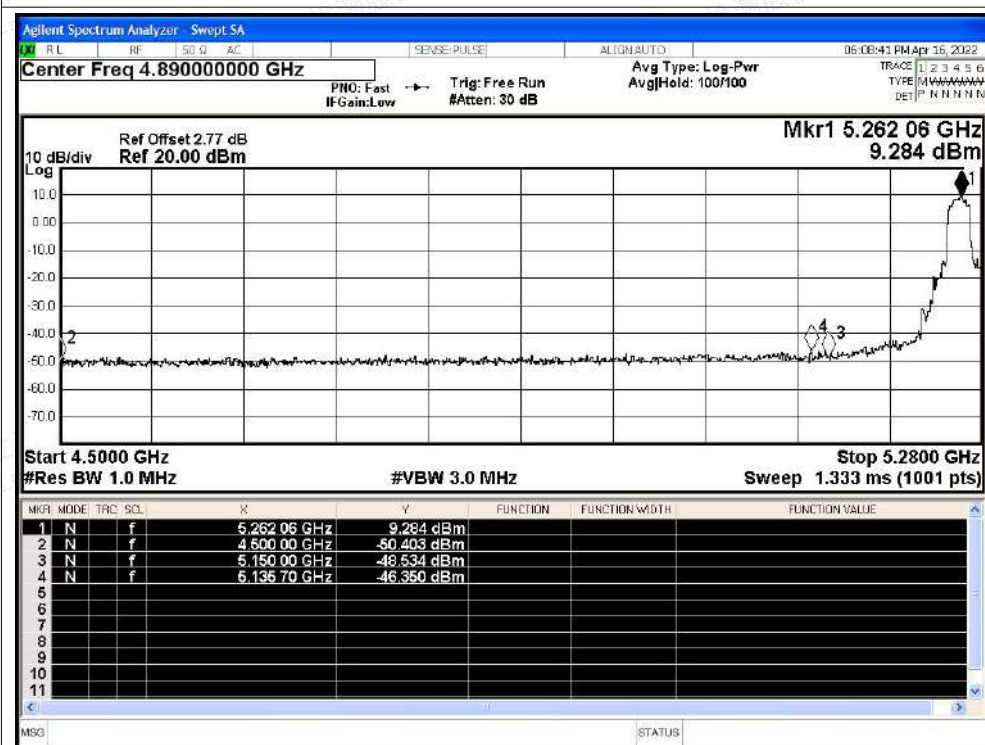
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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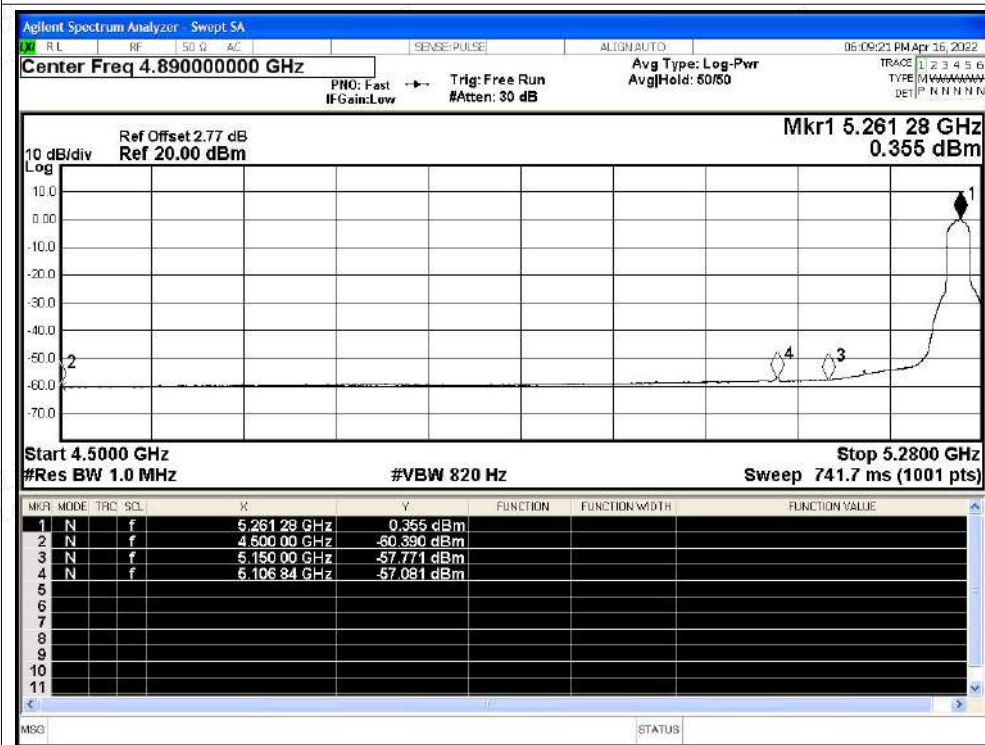
Scan code to check authenticity



Restrict Band NVNT n20 5260MHz Ant1 Peak



Restrict Band NVNT n20 5260MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

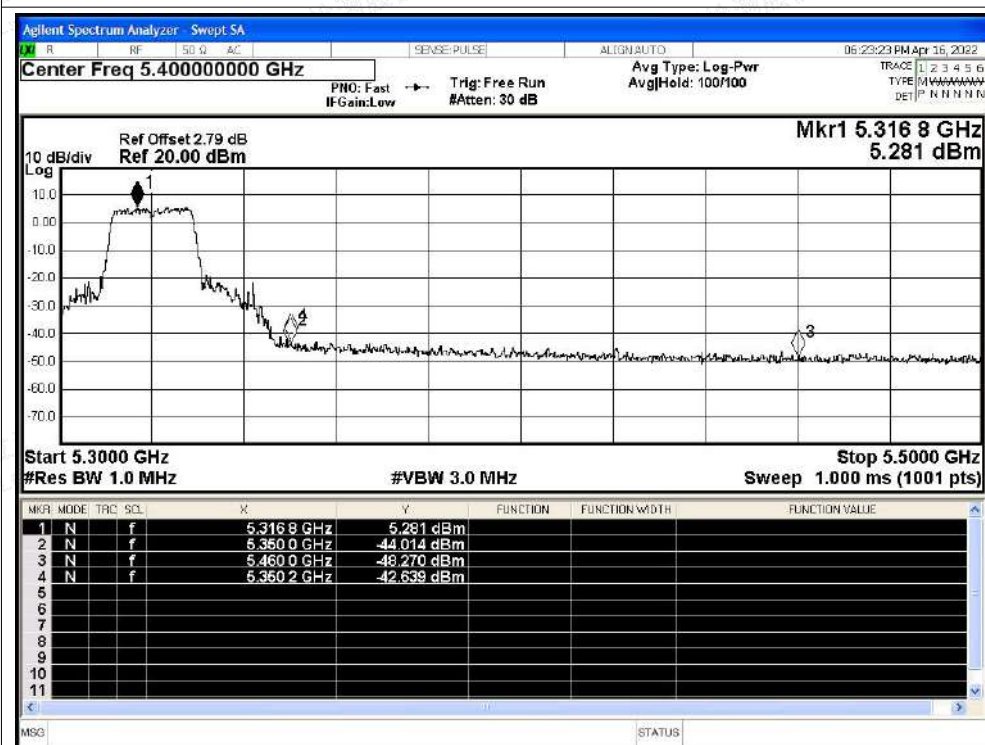
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

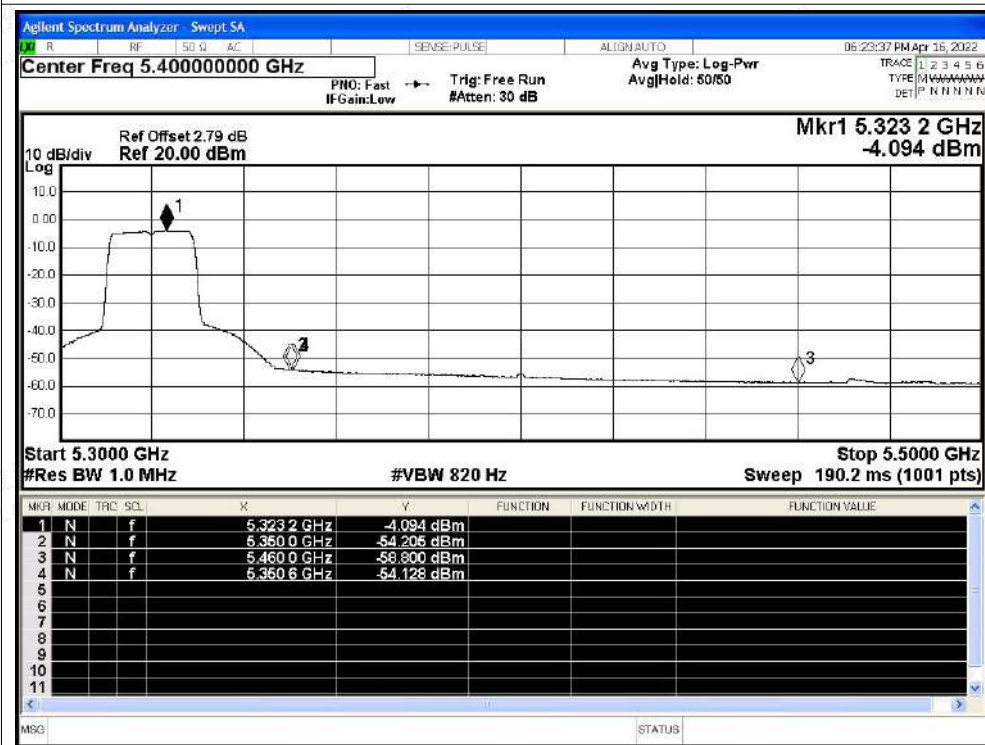
Scan code to check authenticity



Restrict Band NVNT n20 5320MHz Ant1 Peak



Restrict Band NVNT n20 5320MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

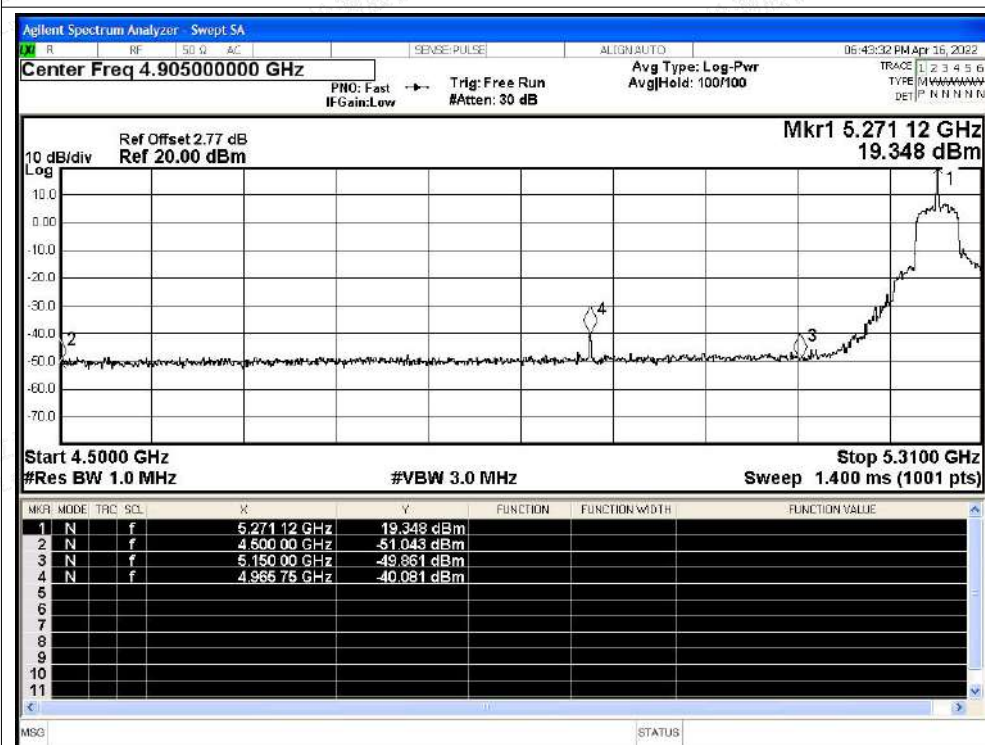
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

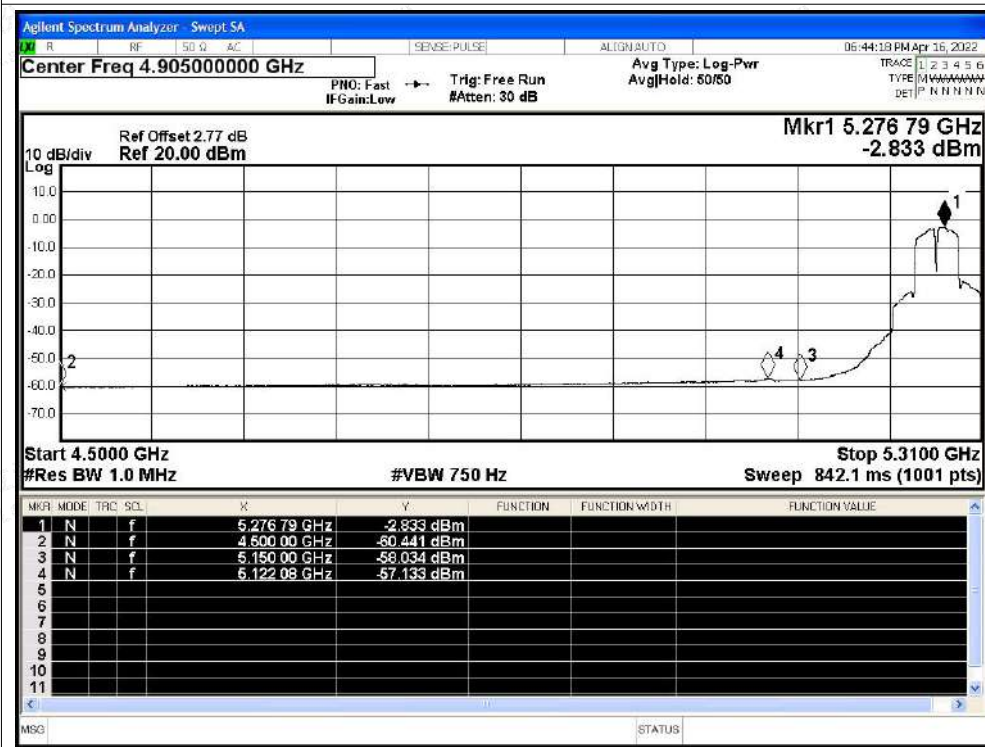
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Restrict Band NVNT n40 5270MHz Ant1 Peak



Restrict Band NVNT n40 5270MHz Ant1 Average



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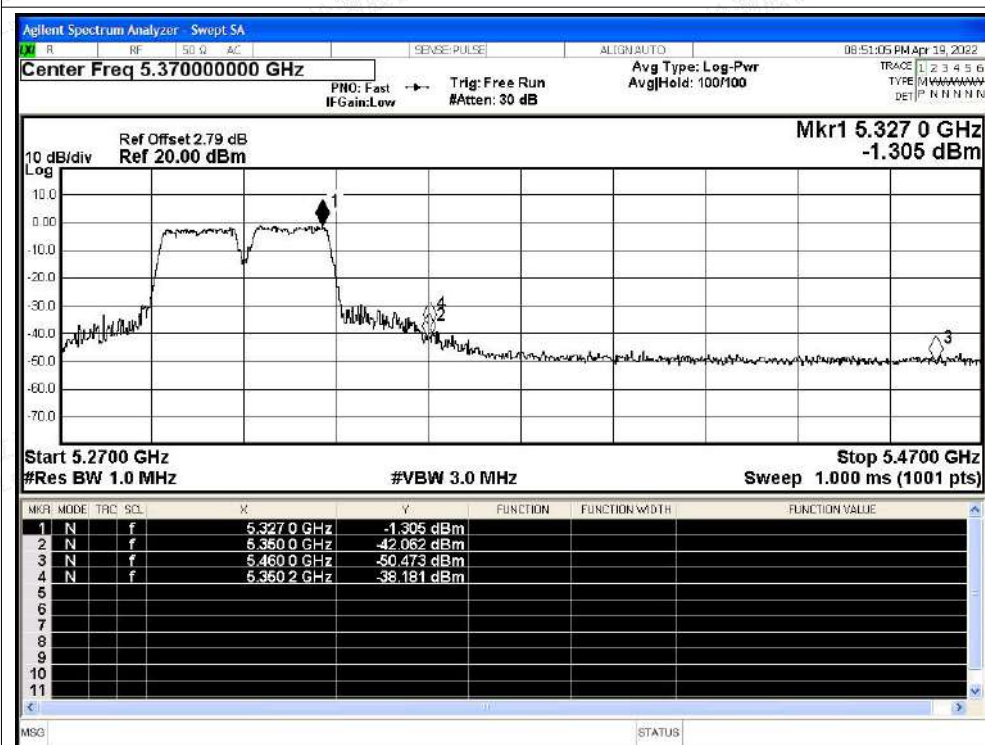
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

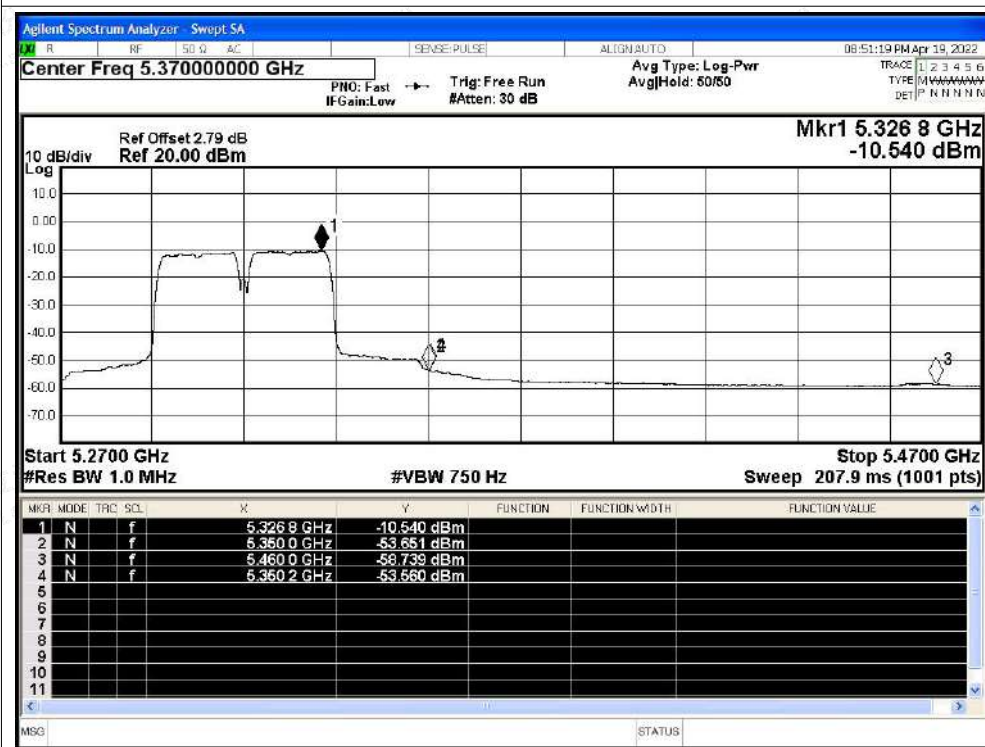
Scan code to check authenticity



Restrict Band NVNT n40 5310MHz Ant1 Peak



Restrict Band NVNT n40 5310MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

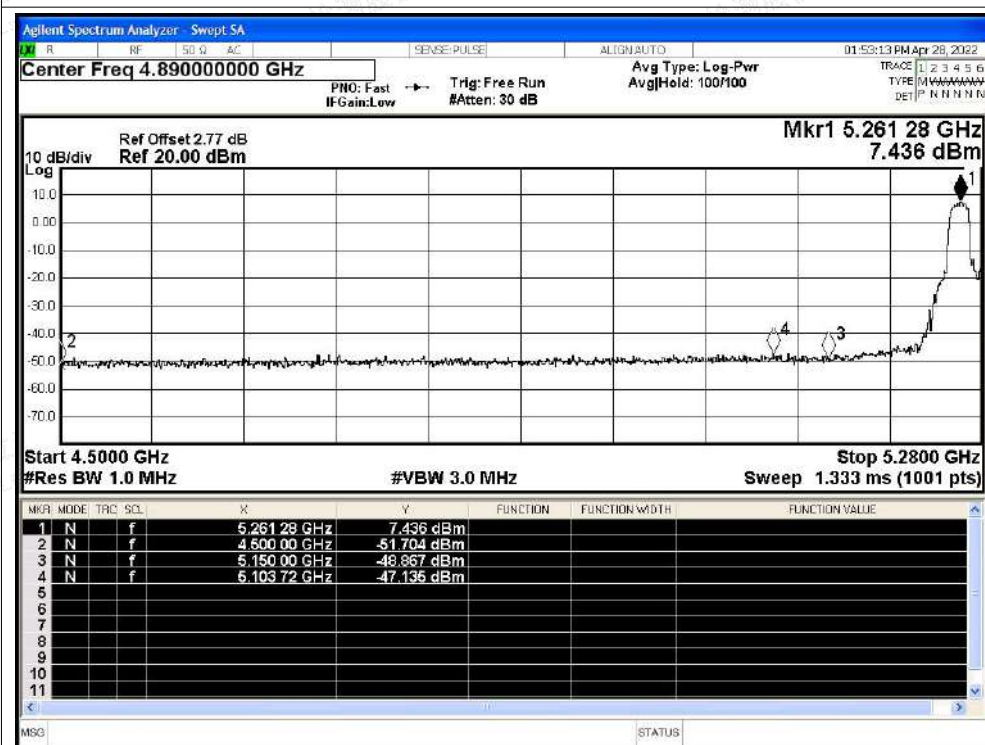
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

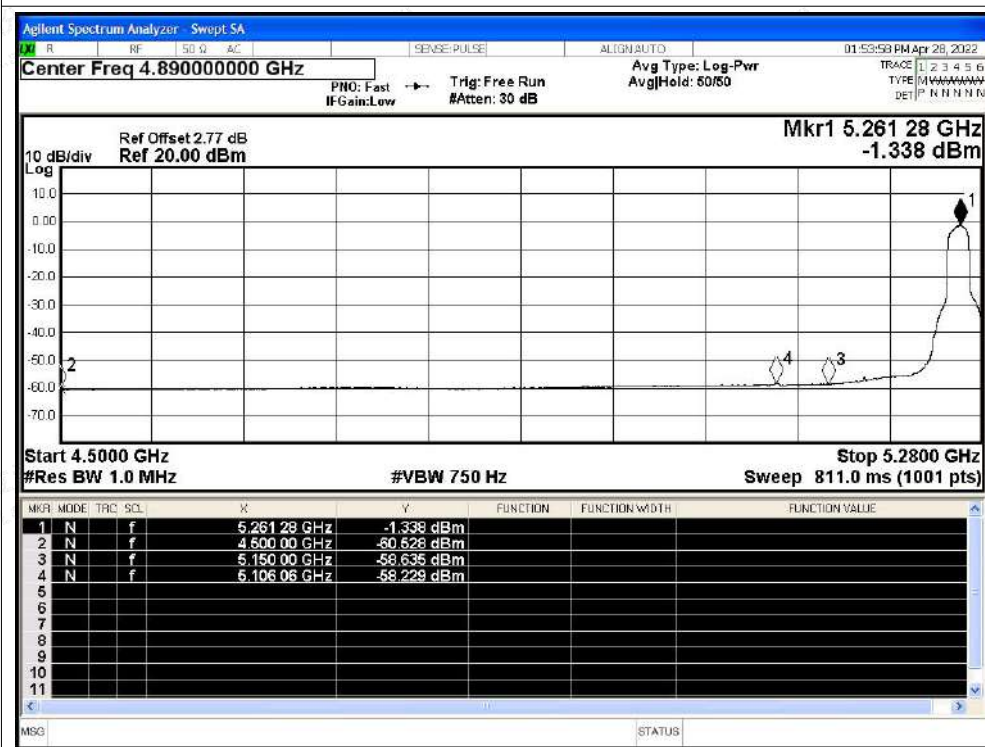
Scan code to check authenticity



Restrict Band NVNT ac20 5260MHz Ant1 Peak



Restrict Band NVNT ac20 5260MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

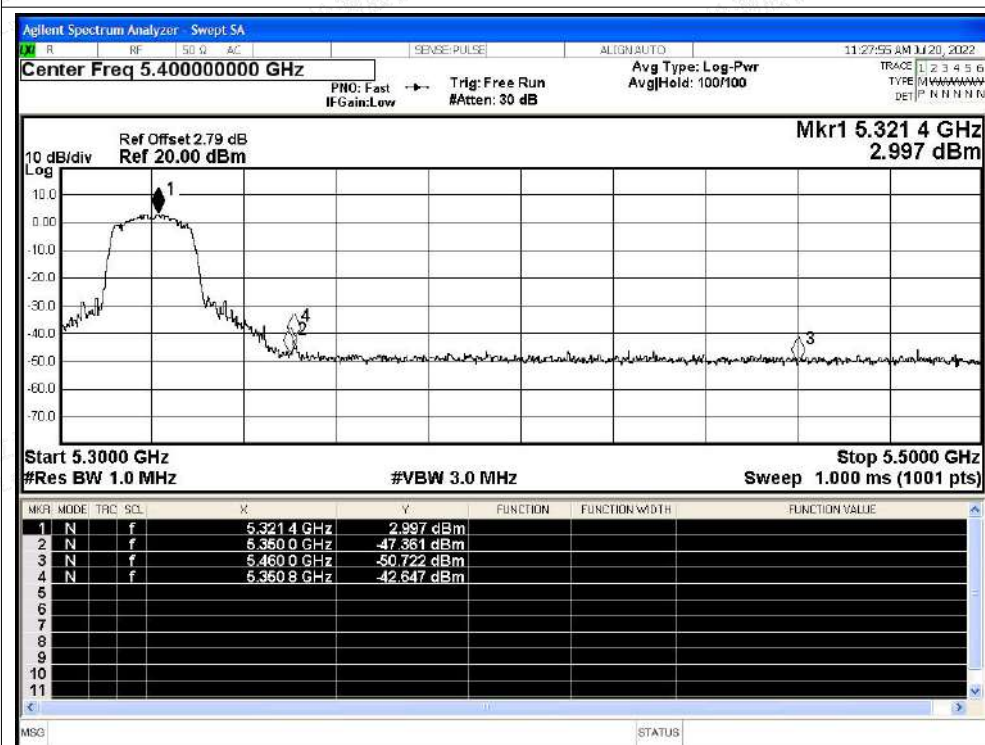
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

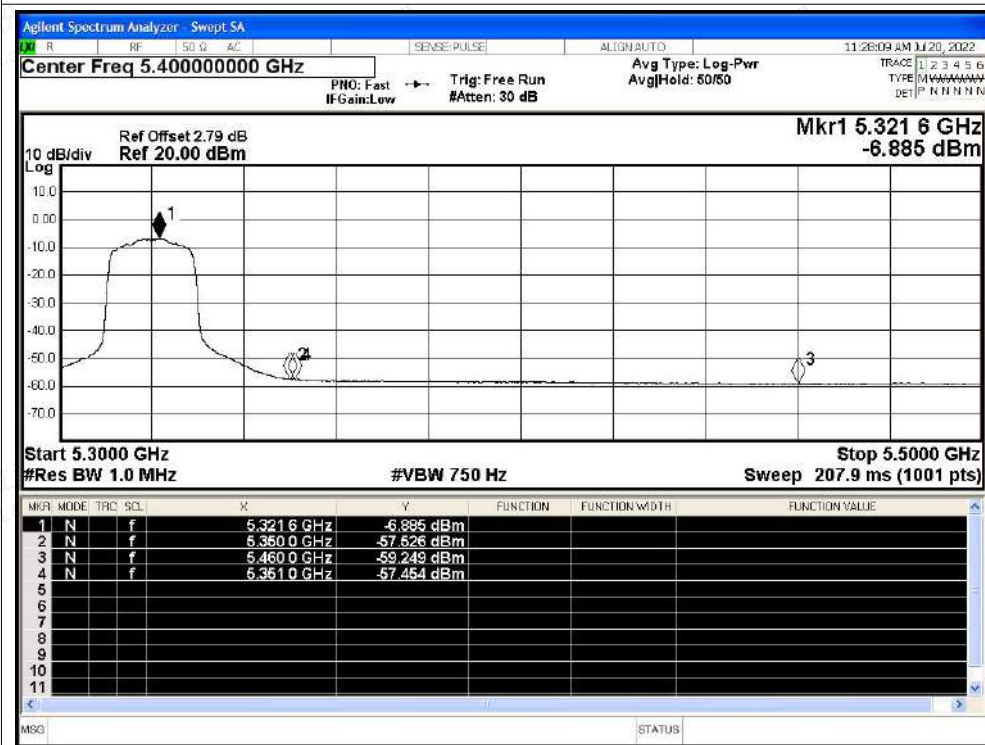
Scan code to check authenticity



Restrict Band NVNT ac20 5320MHz Ant1 Peak



Restrict Band NVNT ac20 5320MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

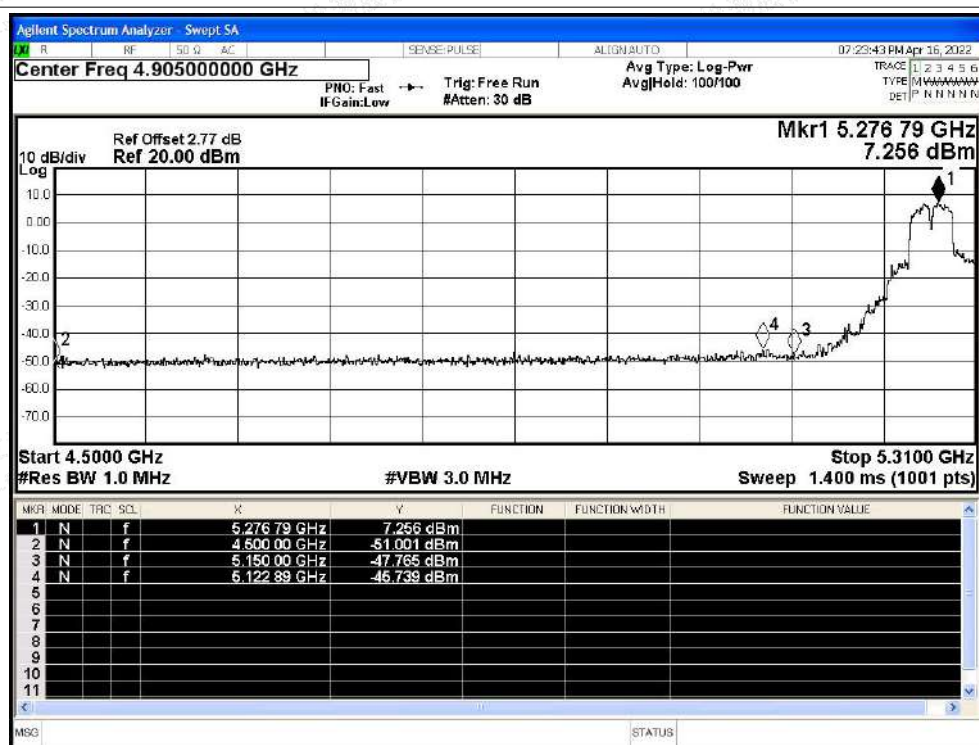
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

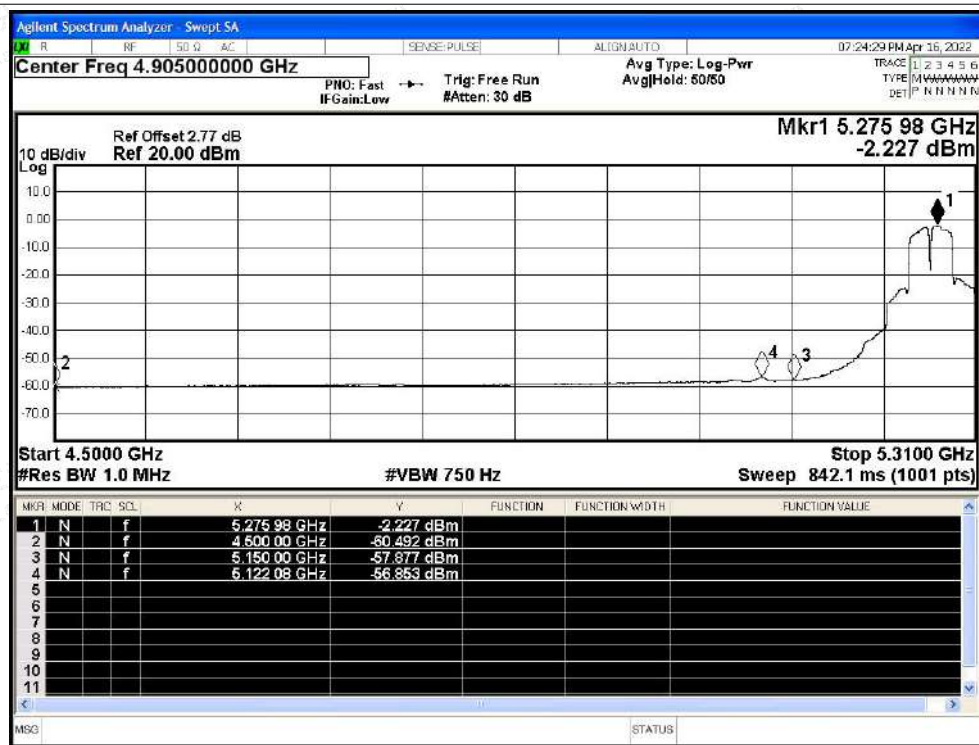
Scan code to check authenticity



Restrict Band NVNT ac40 5270MHz Ant1 Peak



Restrict Band NVNT ac40 5270MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

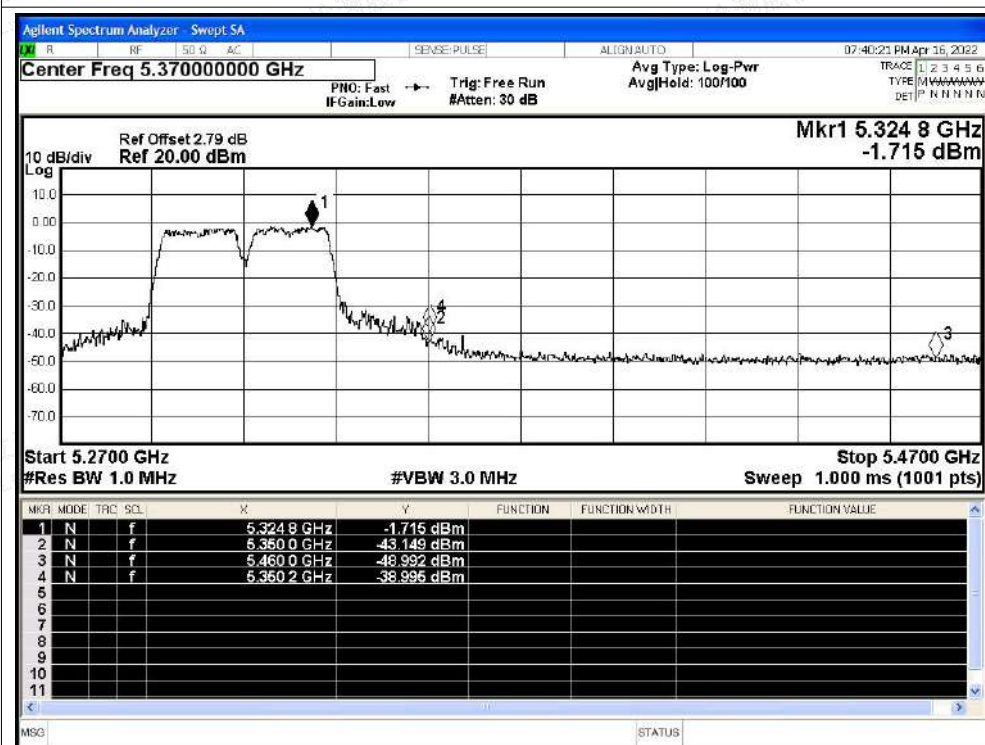
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

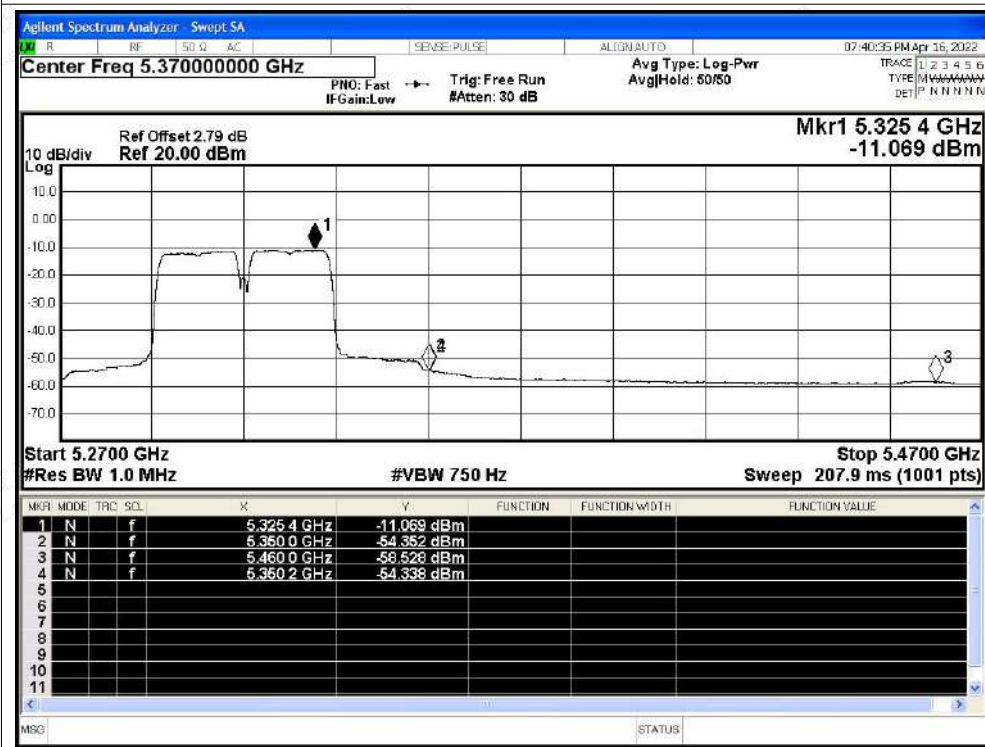
Scan code to check authenticity



Restrict Band NVNT ac40 5310MHz Ant1 Peak



Restrict Band NVNT ac40 5310MHz Ant1 Average



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E.5 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5260	Ant1	97.55	0.11	0.72
NVNT	a	5300	Ant1	97.55	0.11	0.72
NVNT	a	5320	Ant1	97.55	0.11	0.72
NVNT	n20	5260	Ant1	97.38	0.12	0.77
NVNT	n20	5300	Ant1	97.38	0.12	0.77
NVNT	n20	5320	Ant1	97.38	0.12	0.77
NVNT	n40	5270	Ant1	97.62	0.1	0.72
NVNT	n40	5310	Ant1	97.62	0.1	0.72
NVNT	ac20	5260	Ant1	97.38	0.12	0.77
NVNT	ac20	5300	Ant1	97.38	0.12	0.77
NVNT	ac20	5320	Ant1	97.45	0.11	0.77
NVNT	ac40	5270	Ant1	97.62	0.1	0.72
NVNT	ac40	5310	Ant1	97.62	0.1	0.72



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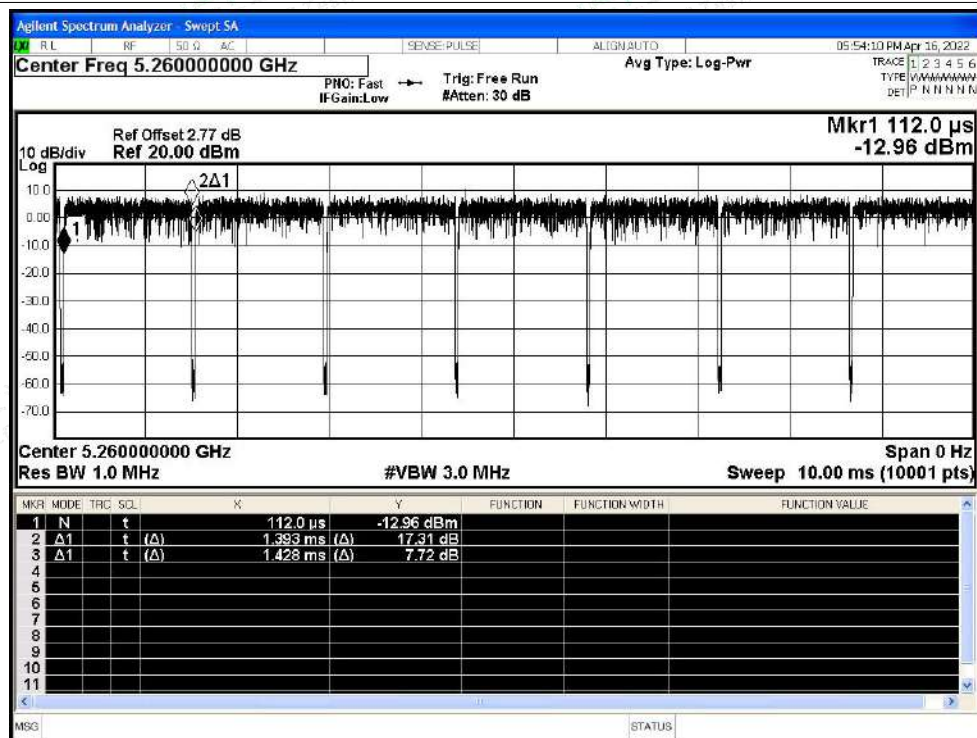
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity

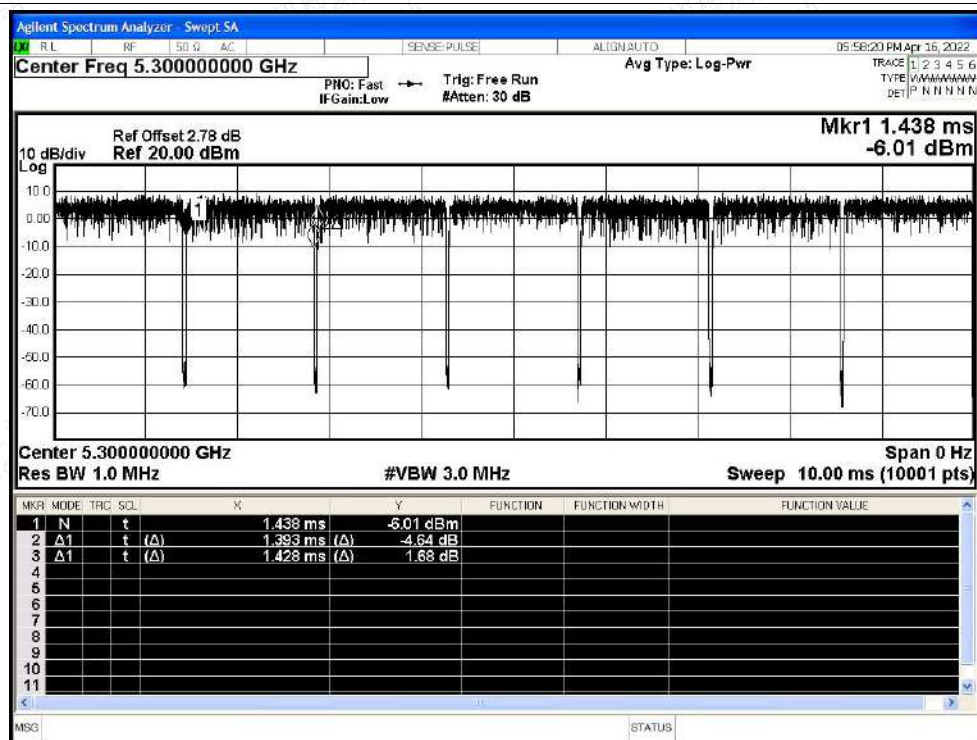


Test Graphs

Duty Cycle NVNT a 5260MHz Ant1



Duty Cycle NVNT a 5300MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

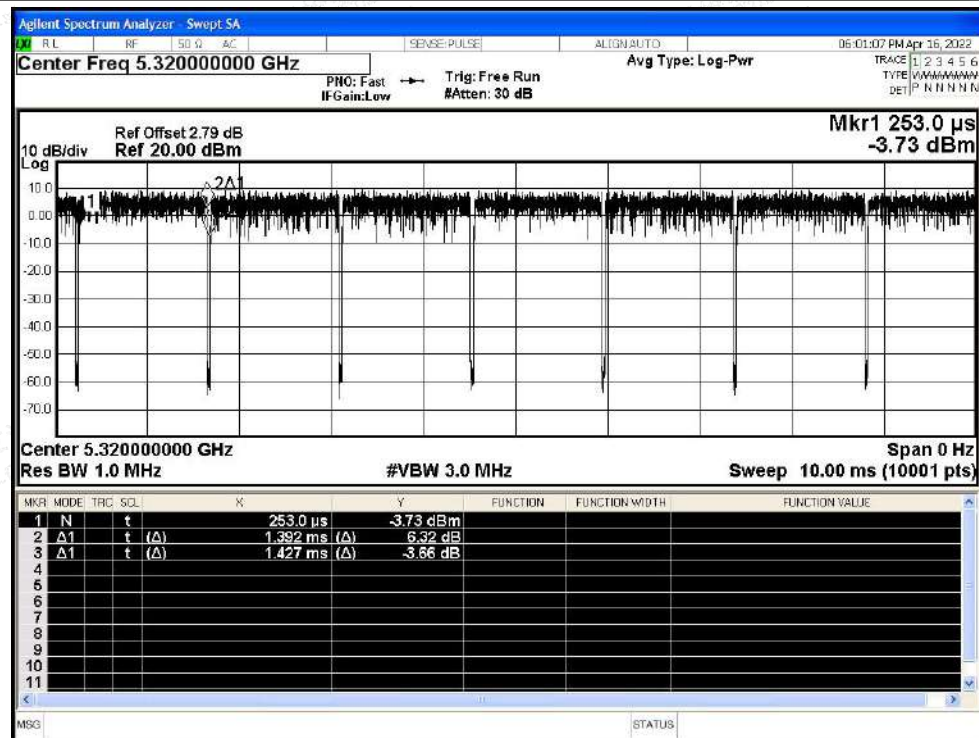
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

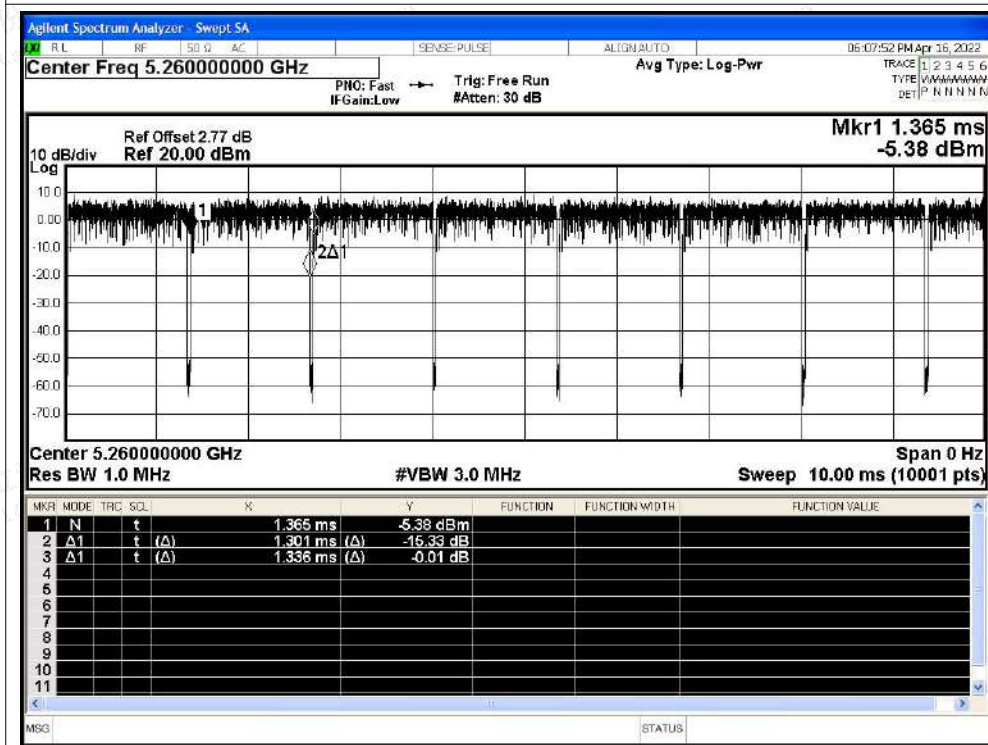
Scan code to check authenticity



Duty Cycle NVNT a 5320MHz Ant1



Duty Cycle NVNT n20 5260MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

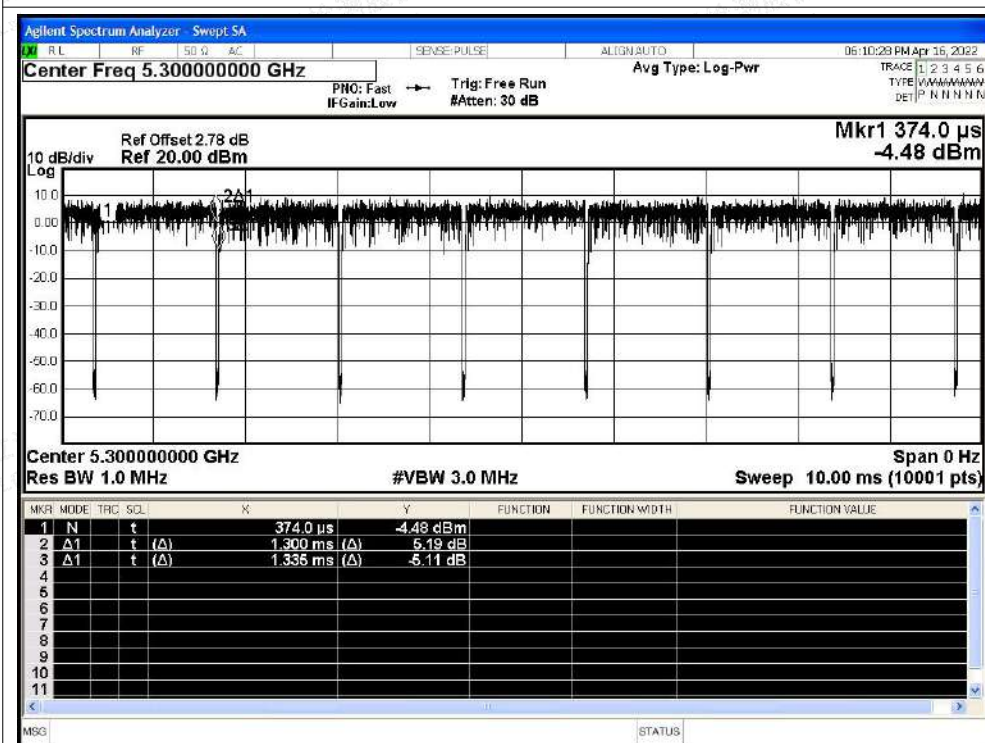
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

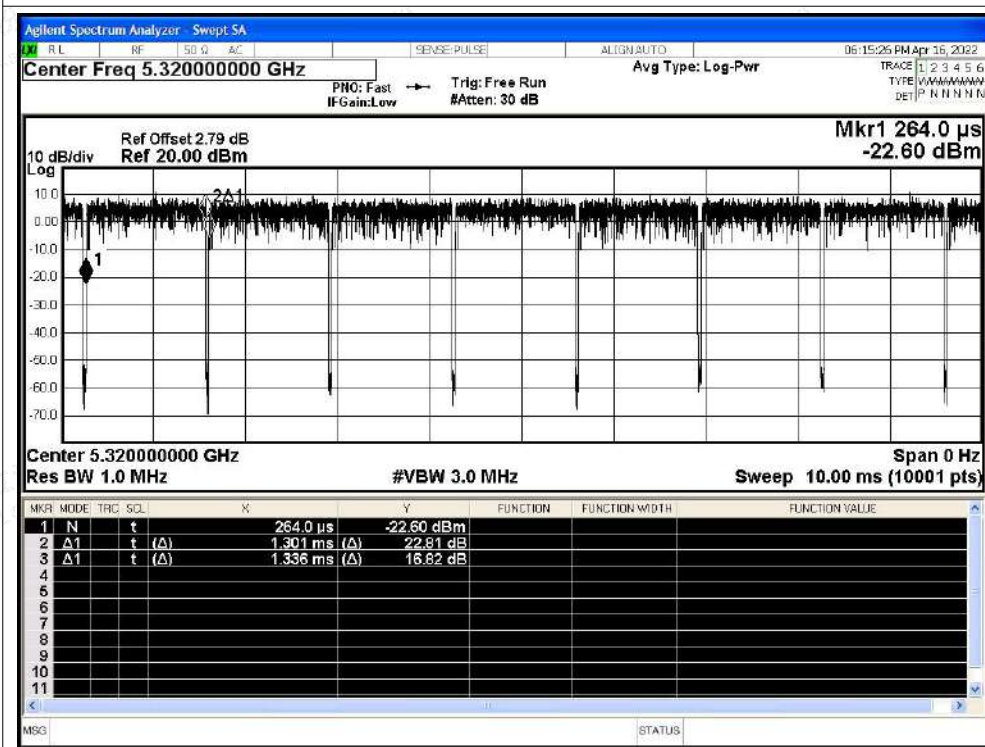
Scan code to check authenticity



Duty Cycle NVNT n20 5300MHz Ant1



Duty Cycle NVNT n20 5320MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

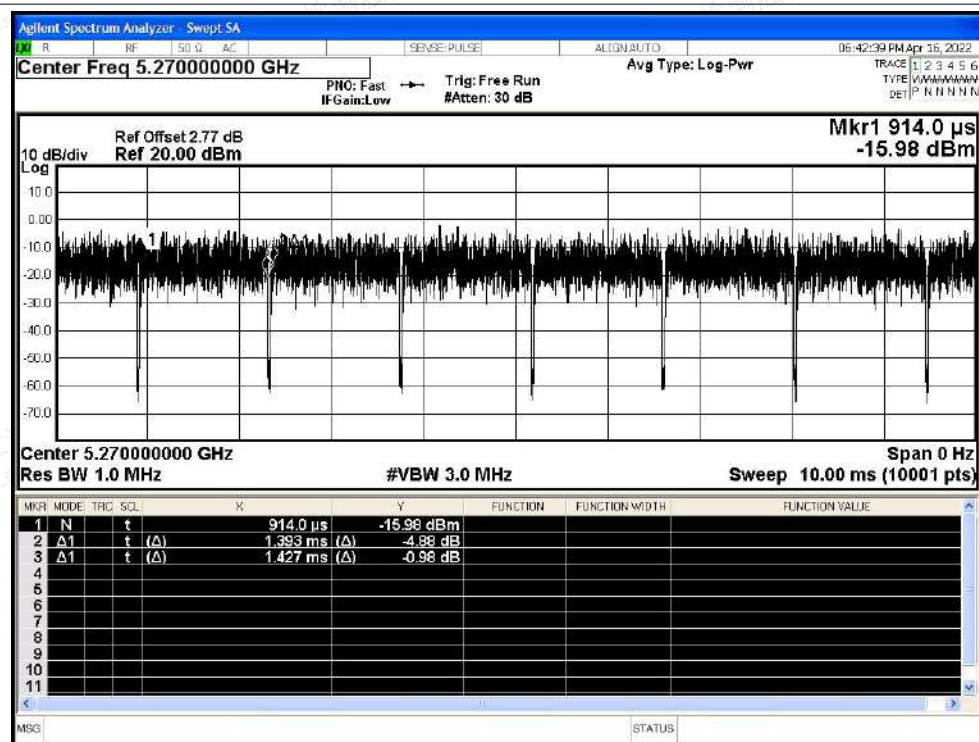
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

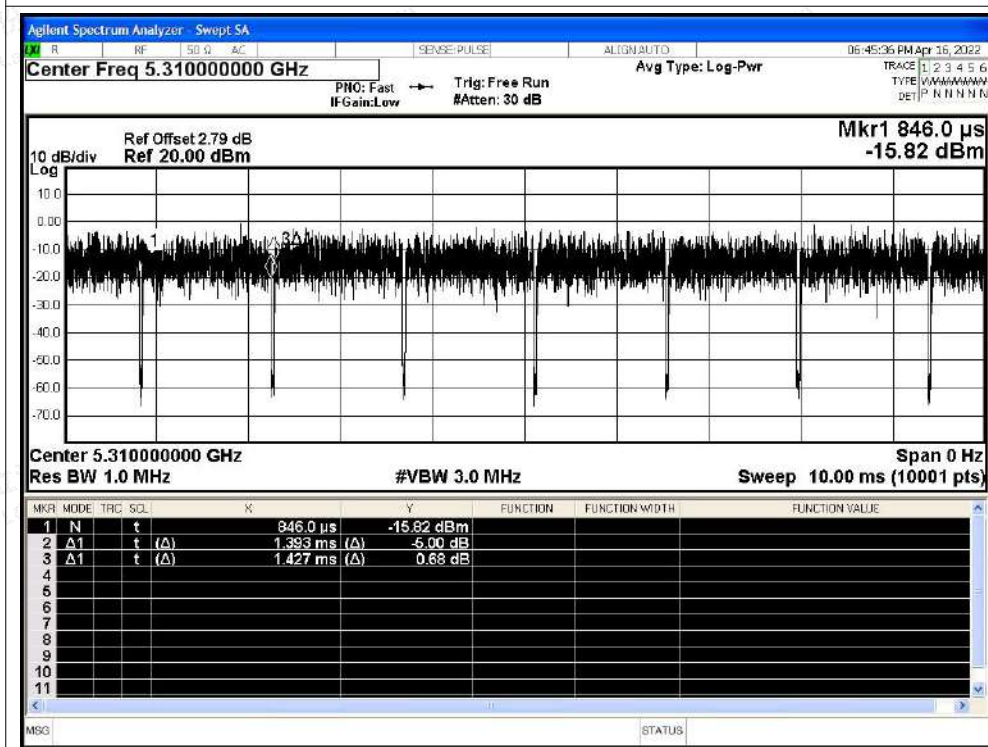
Scan code to check authenticity



Duty Cycle NVNT n40 5270MHz Ant1



Duty Cycle NVNT n40 5310MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

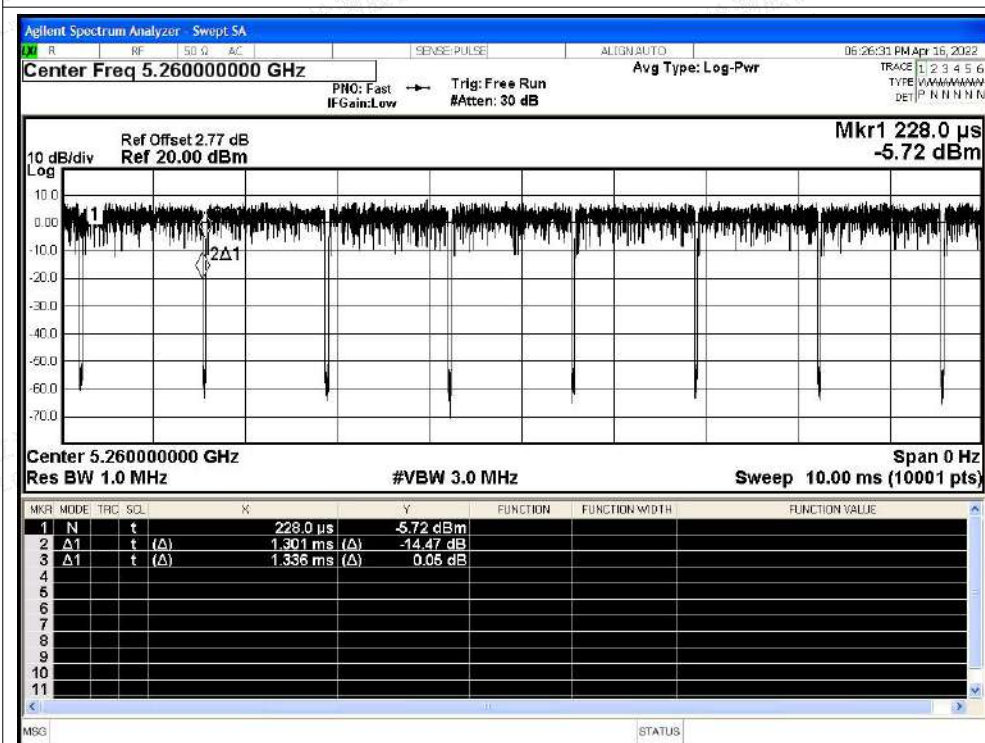
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

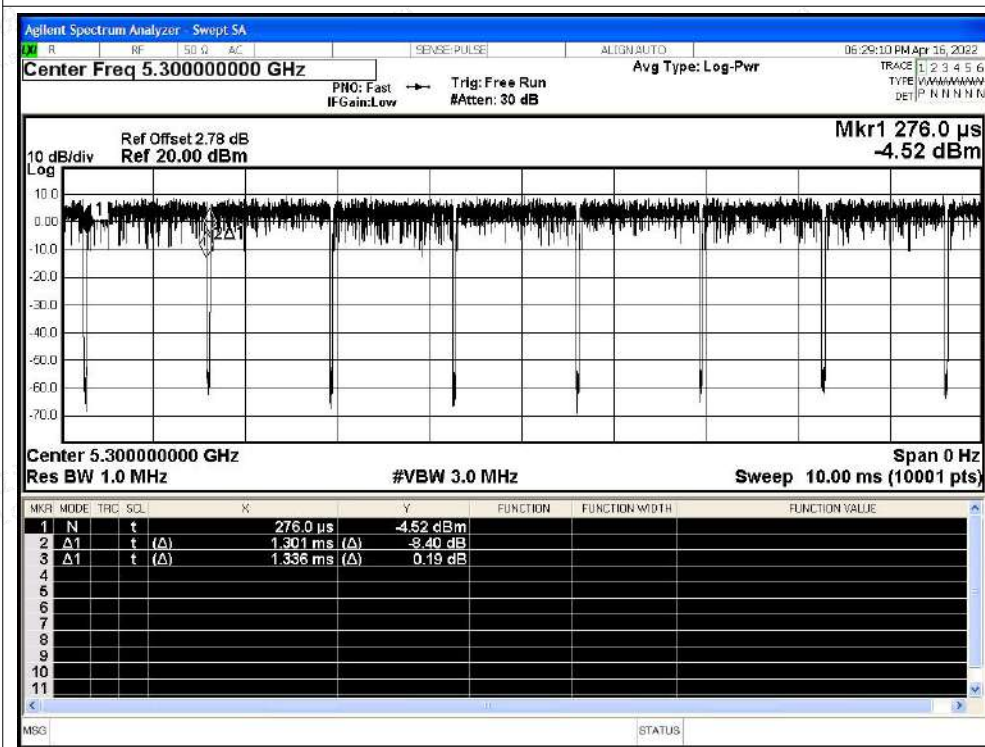
Scan code to check authenticity



Duty Cycle NVNT ac20 5260MHz Ant1



Duty Cycle NVNT ac20 5300MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

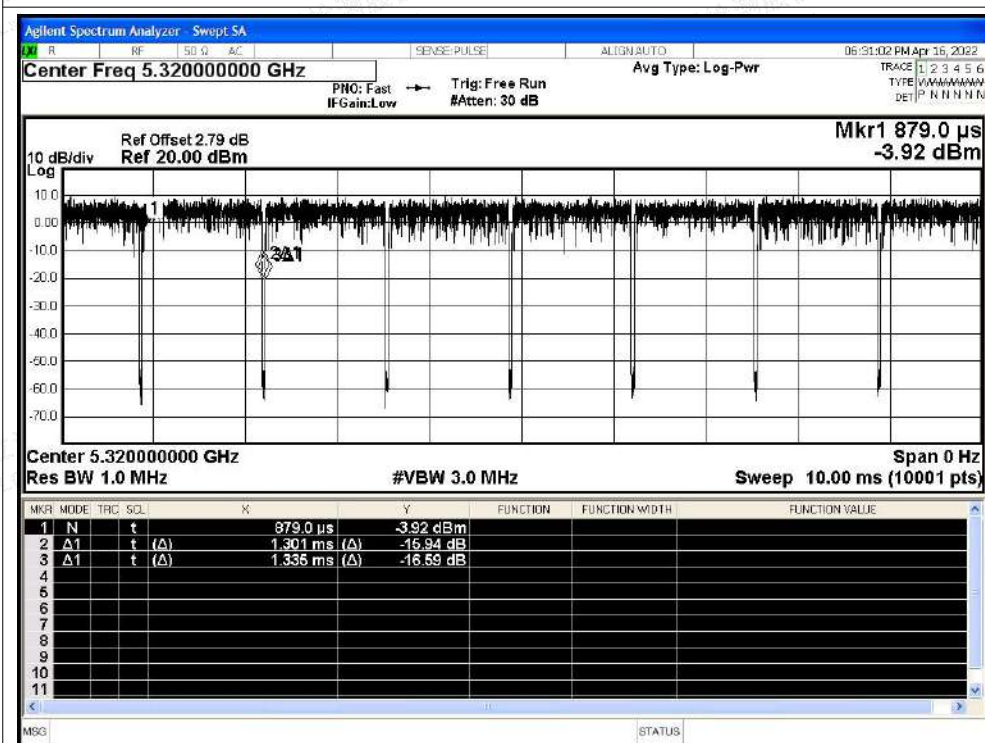
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

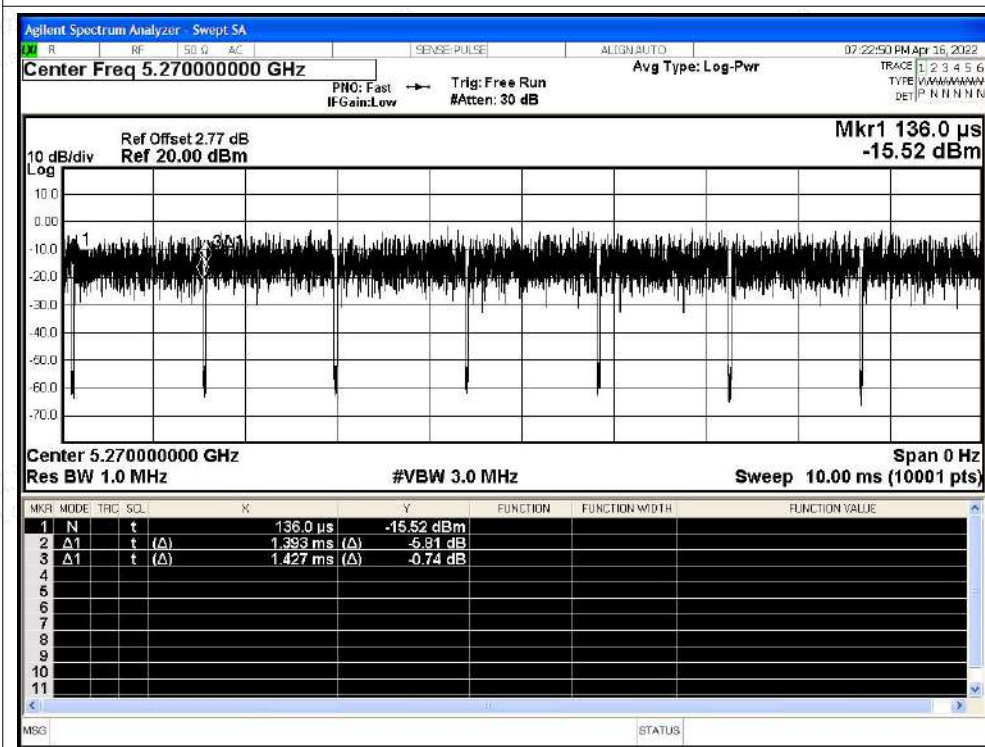
Scan code to check authenticity



Duty Cycle NVNT ac20 5320MHz Ant1



Duty Cycle NVNT ac40 5270MHz Ant1

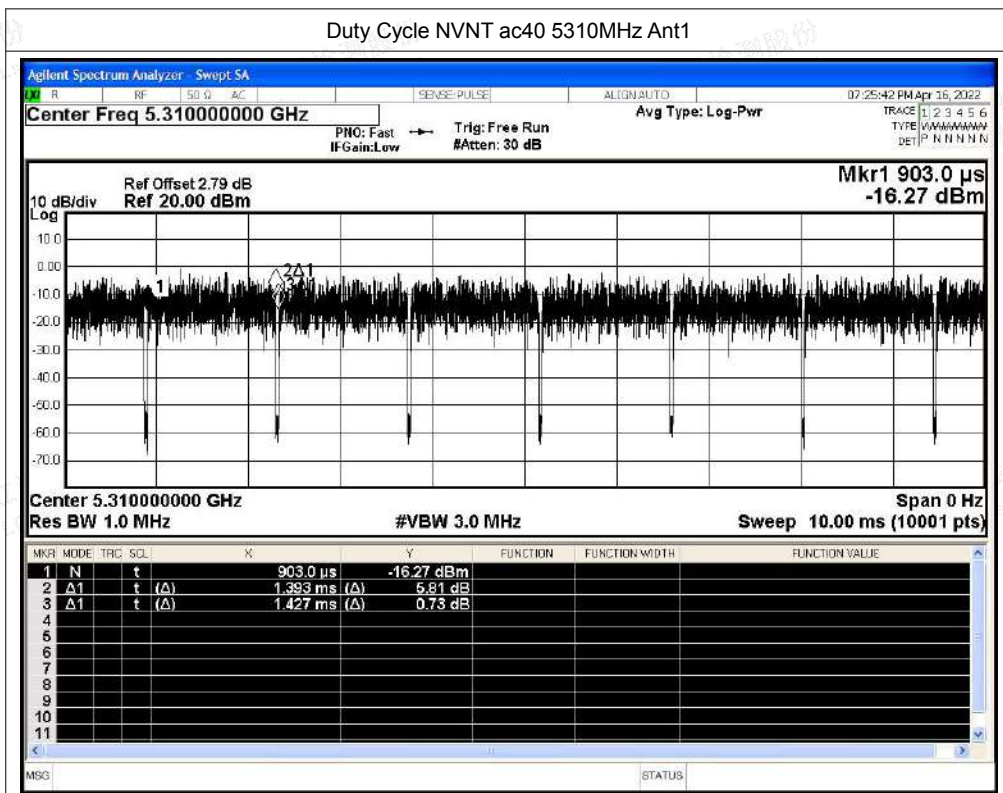


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E.6 Frequency Stability

Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	ac20	5260	Ant1	5260.02	20000	3.8	25	Pass
NVNT	ac20	5300	Ant1	5300	0	0	25	Pass
NVNT	ac20	5320	Ant1	5320	0	0	25	Pass
NVNT	ac40	5270	Ant1	5270.04	40000	7.59	25	Pass
NVNT	ac40	5310	Ant1	5310	0	0	25	Pass



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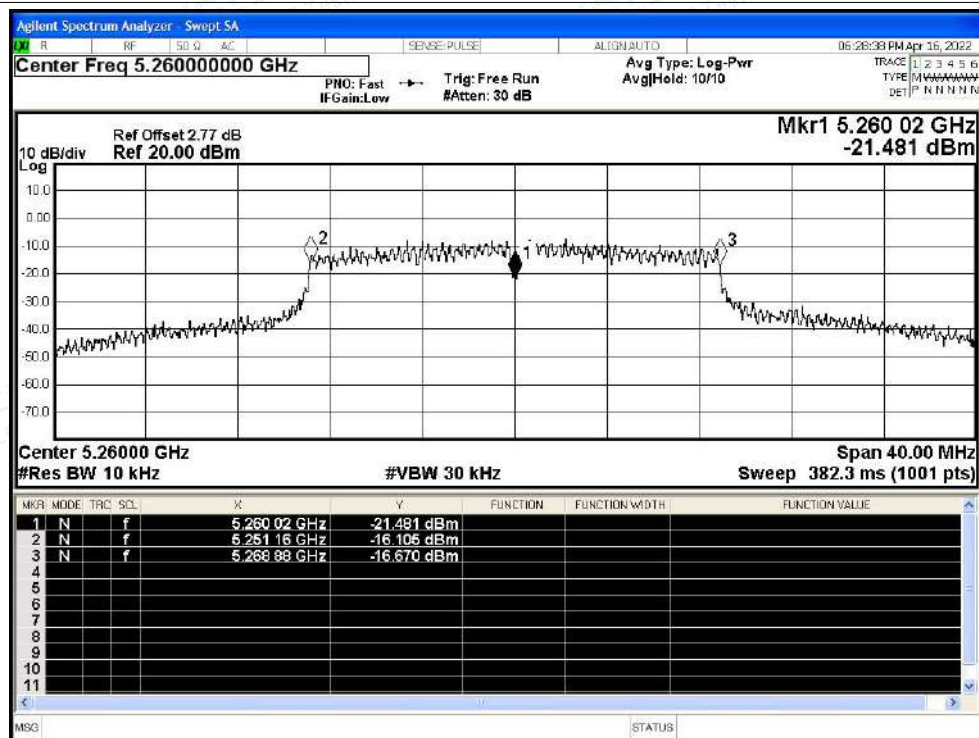
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity

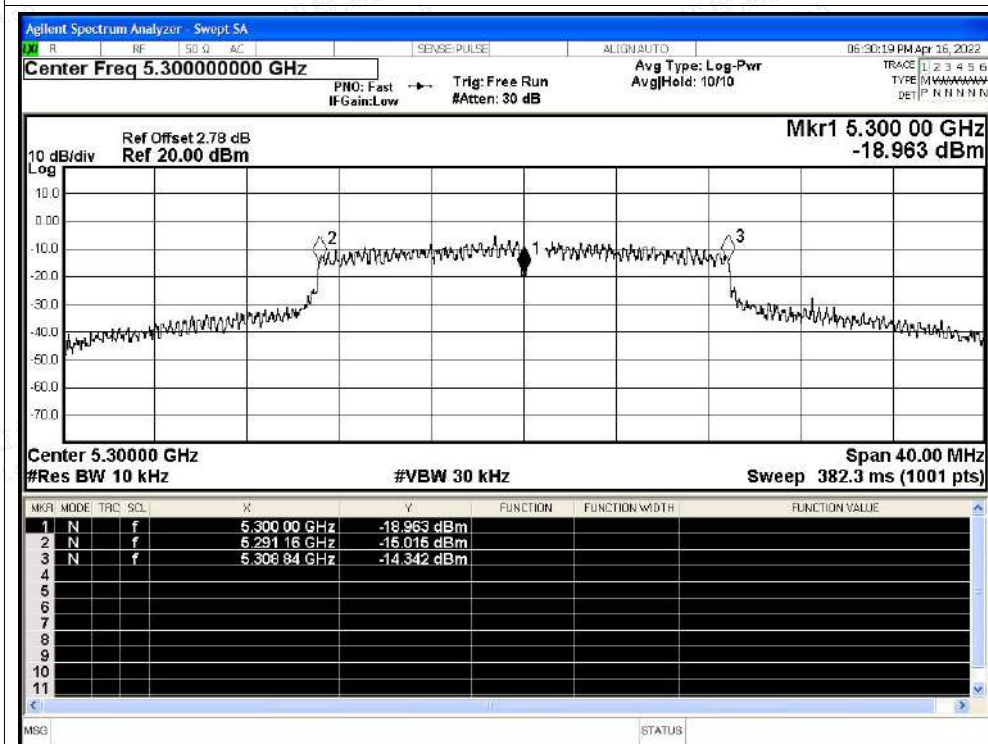


Test Graphs

Freq. Stability NVNT ac20 5260MHz Ant1



Freq. Stability NVNT ac20 5300MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

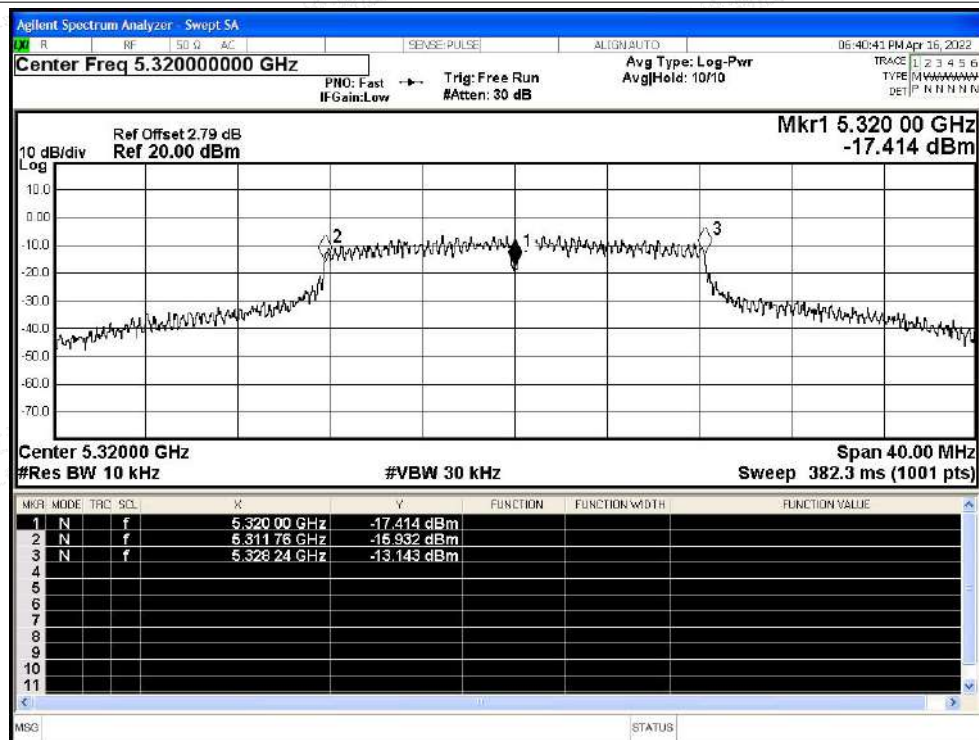
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

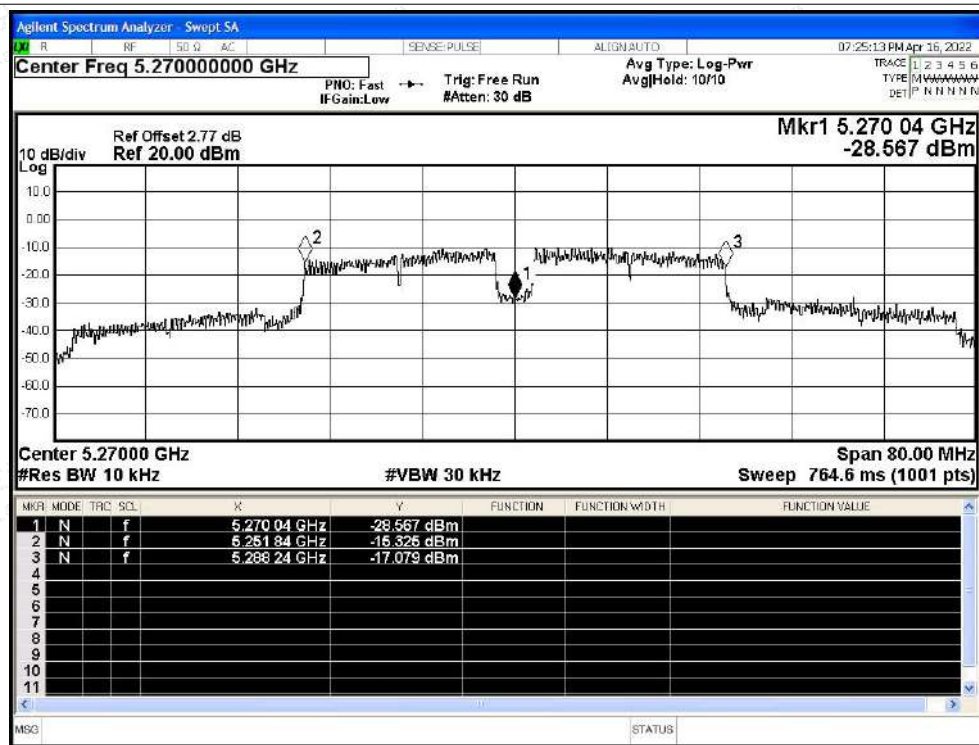
Scan code to check authenticity



Freq. Stability NVNT ac20 5320MHz Ant1



Freq. Stability NVNT ac40 5270MHz Ant1

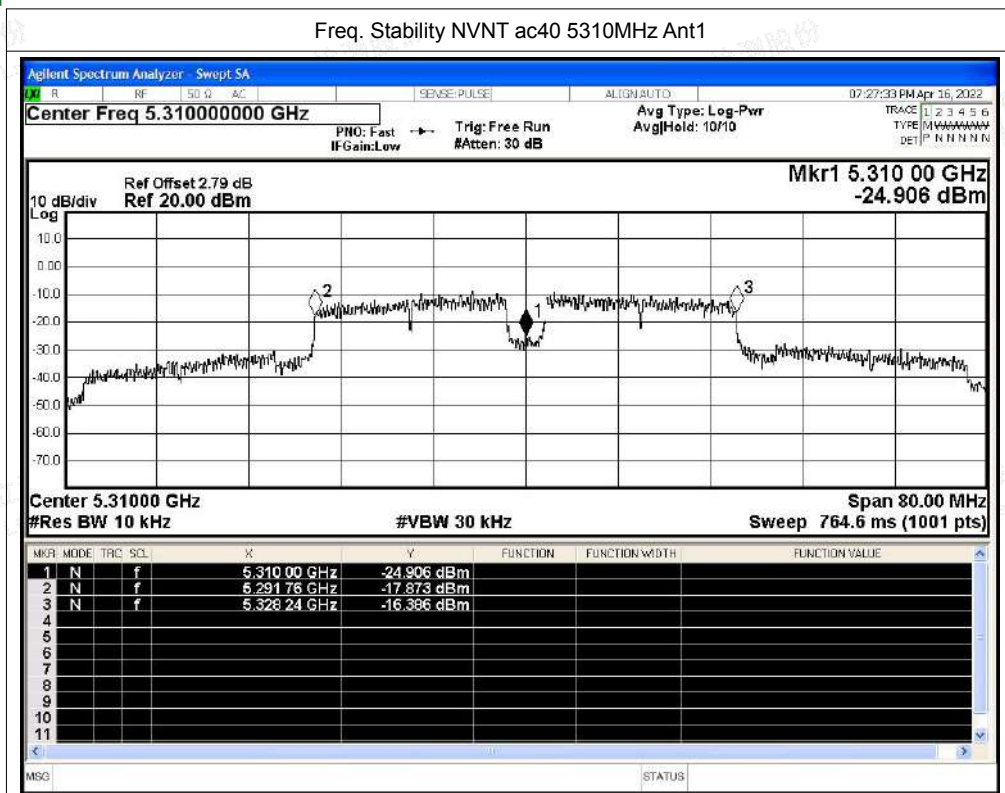


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