



Appendix B

RF Test Data for BT LE (Conducted Measurement)

Product Name: VIDEO PROJECTOR

Test Model: H10

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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B.1 -6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	Ant0	0.656	≥ 0.5	Pass
NVNT	BLE 1M	2440	Ant0	0.659	≥ 0.5	Pass
NVNT	BLE 1M	2480	Ant0	0.649	≥ 0.5	Pass
NVNT	BLE 2M	2402	Ant0	1.163	≥ 0.5	Pass
NVNT	BLE 2M	2440	Ant0	1.155	≥ 0.5	Pass
NVNT	BLE 2M	2480	Ant0	1.131	≥ 0.5	Pass



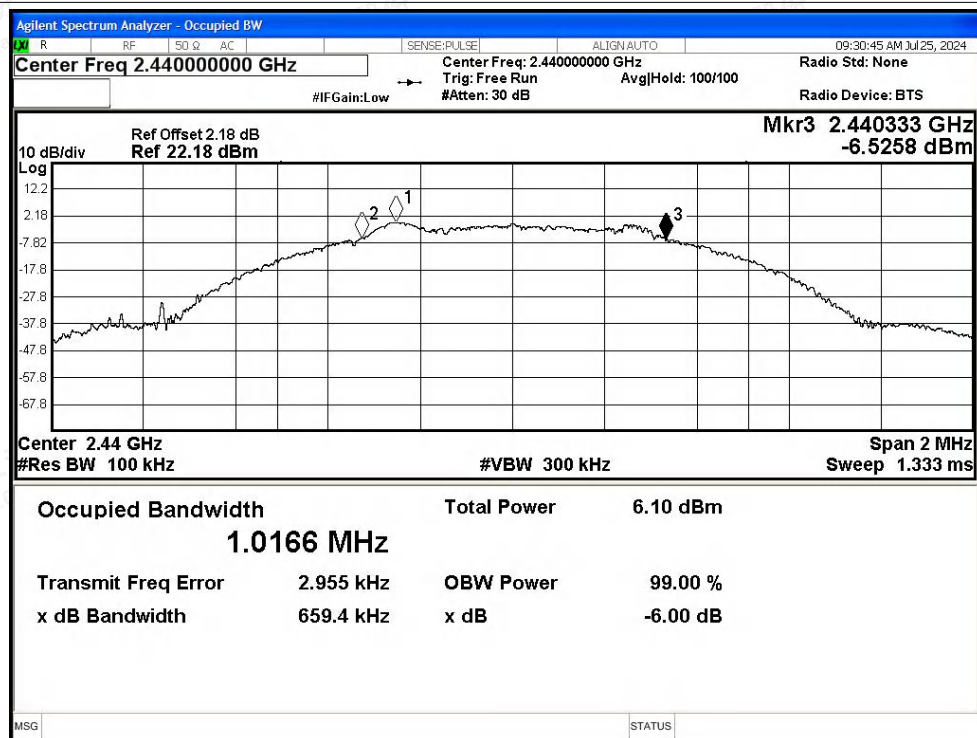


Test Graphs

-6dB Bandwidth NVNT BLE 1M 2402MHz Ant0



-6dB Bandwidth NVNT BLE 1M 2440MHz Ant0



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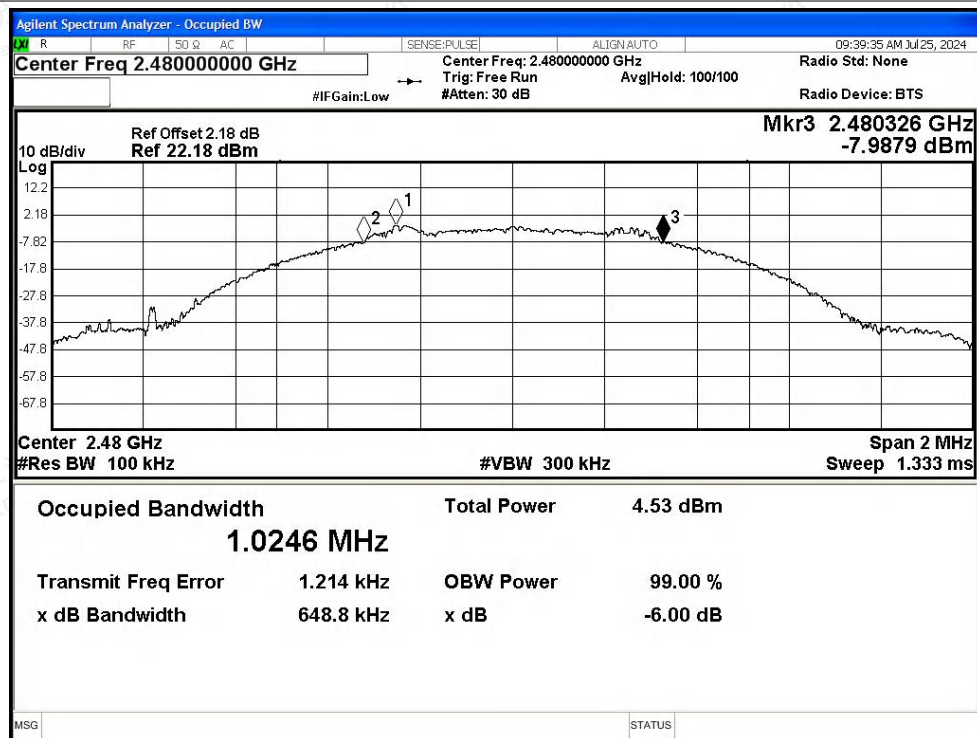
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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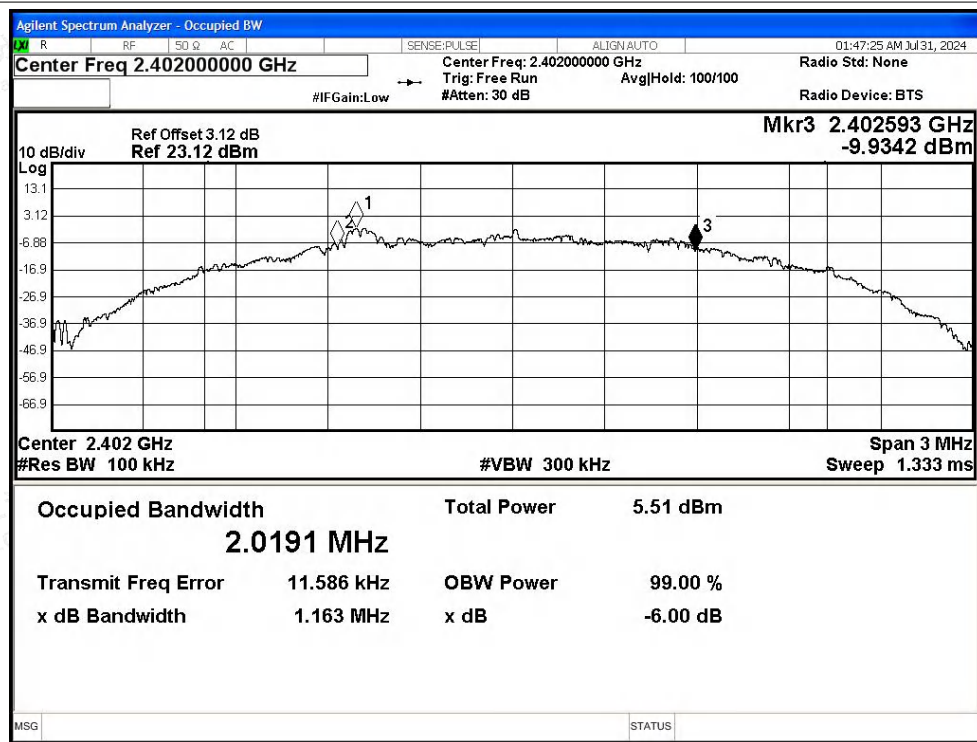
Scan code to check authenticity



-6dB Bandwidth NVNT BLE 1M 2480MHz Ant0



-6dB Bandwidth NVNT BLE 2M 2402MHz Ant0



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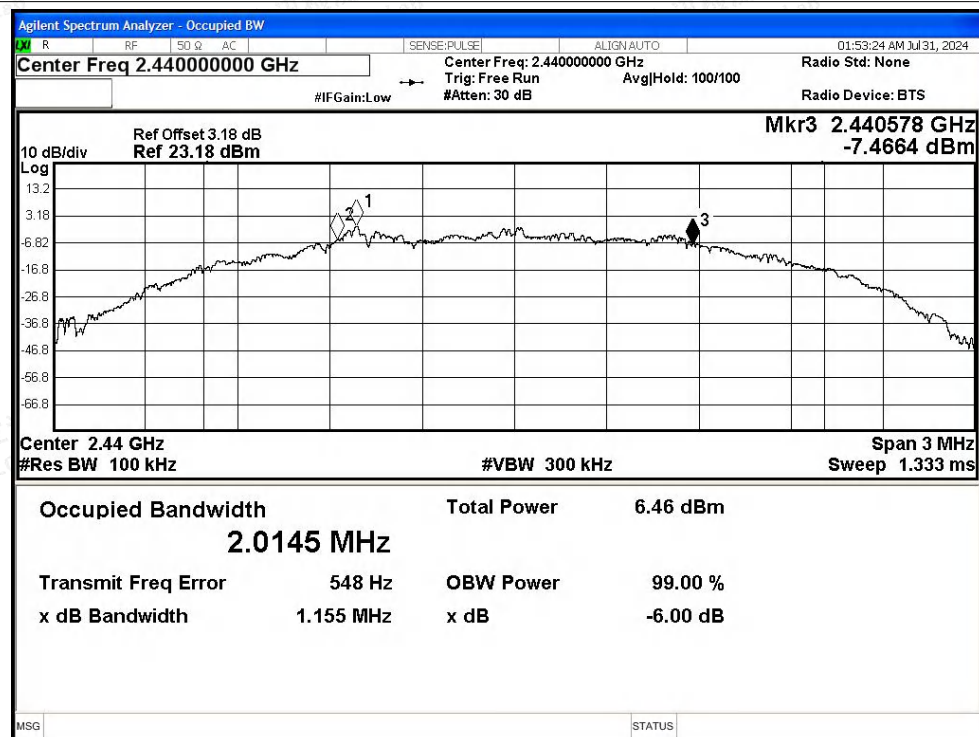
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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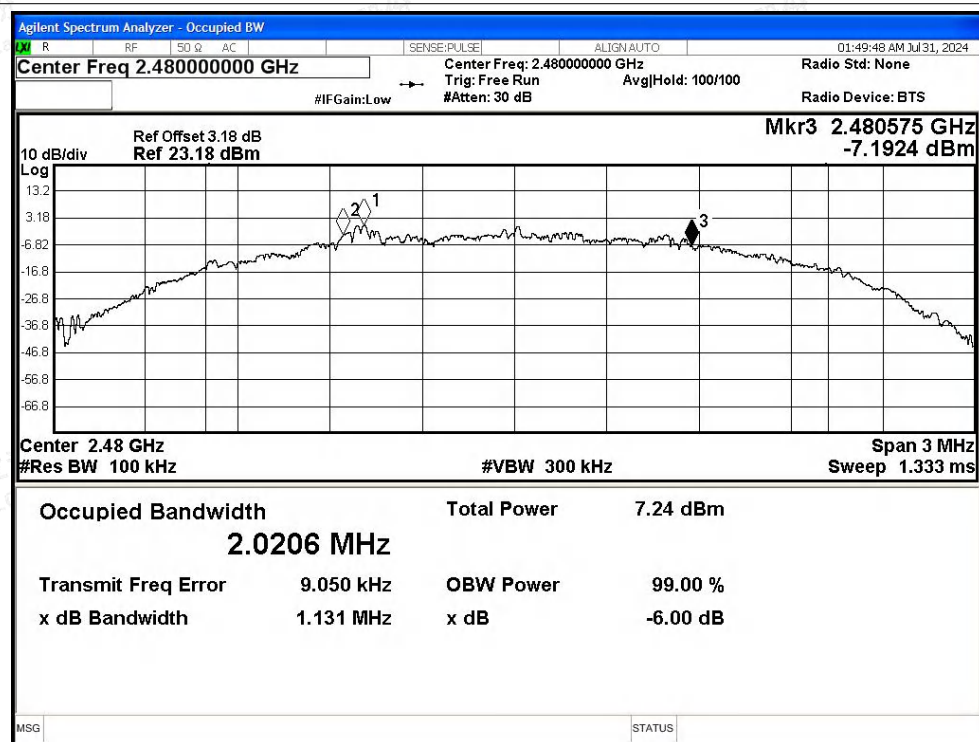
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-6dB Bandwidth NVNT BLE 2M 2440MHz Ant0



-6dB Bandwidth NVNT BLE 2M 2480MHz Ant0



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B.2 Maximum Peak Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant0	0.05	30	Pass
NVNT	BLE 1M	2440	Ant0	0.28	30	Pass
NVNT	BLE 1M	2480	Ant0	-0.86	30	Pass
NVNT	BLE 2M	2402	Ant0	-0.63	30	Pass
NVNT	BLE 2M	2440	Ant0	0.12	30	Pass
NVNT	BLE 2M	2480	Ant0	1.05	30	Pass

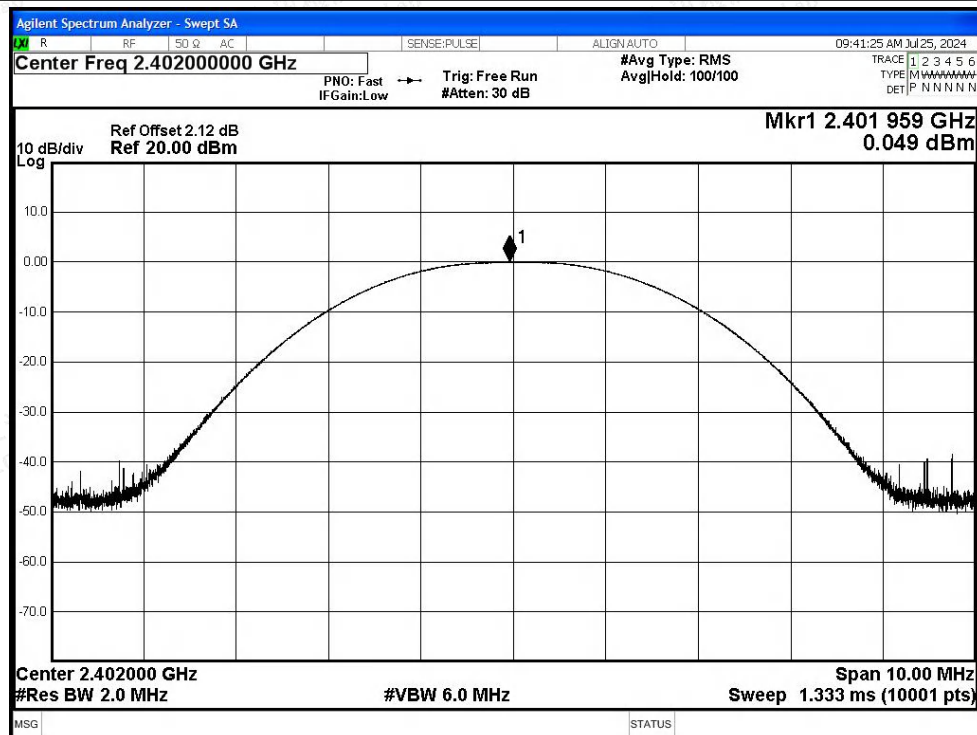


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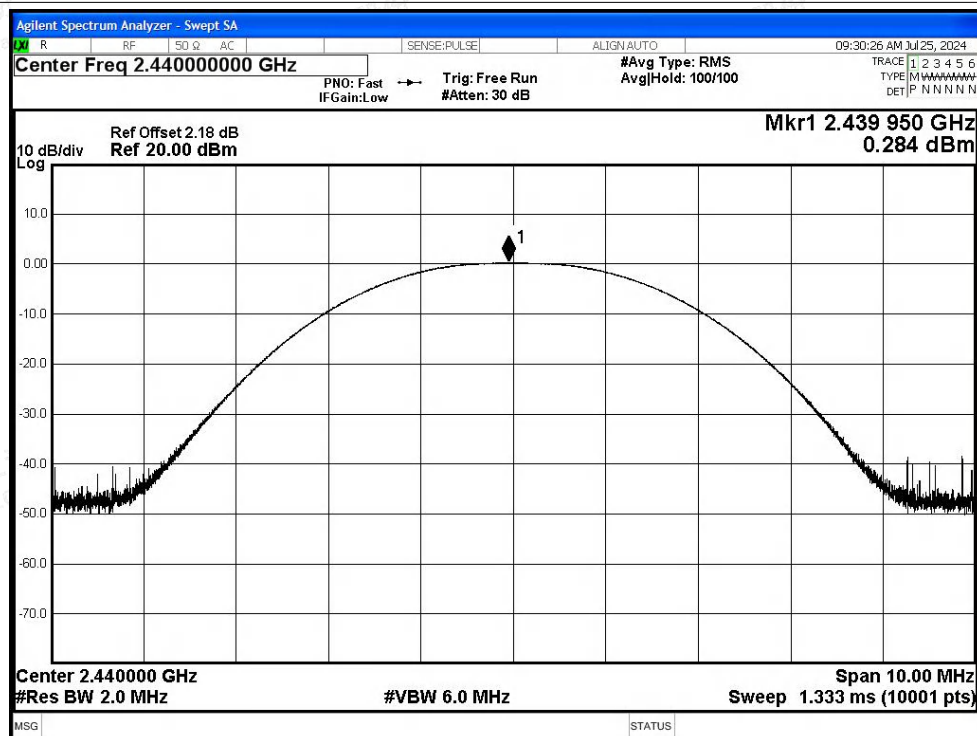


Test Graphs

Power NVNT BLE 1M 2402MHz Ant0



Power NVNT BLE 1M 2440MHz Ant0



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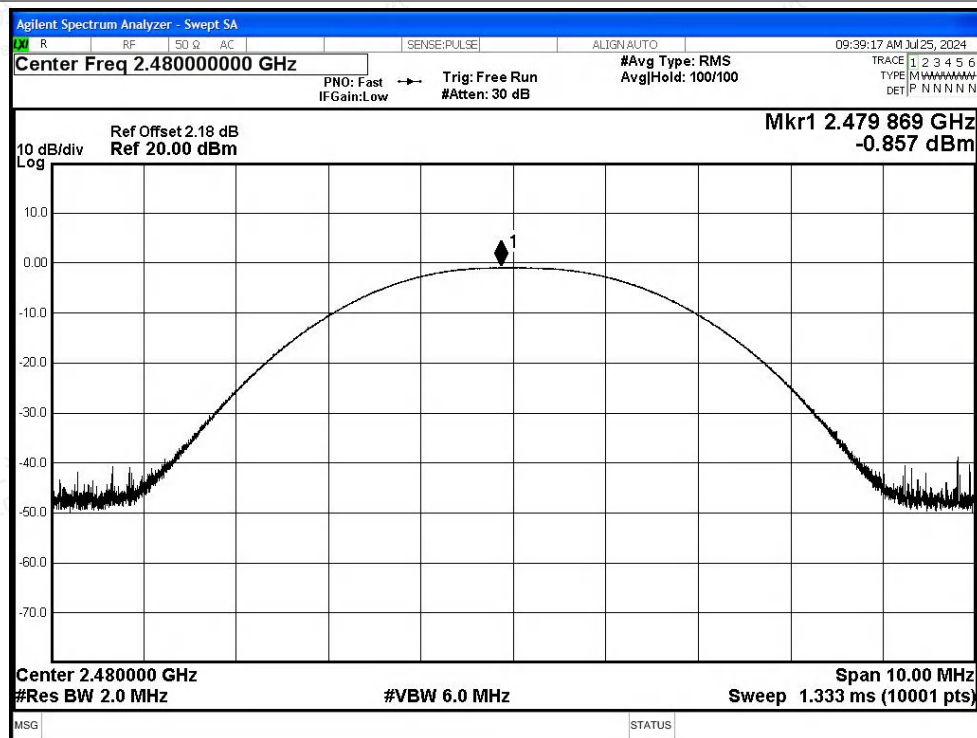
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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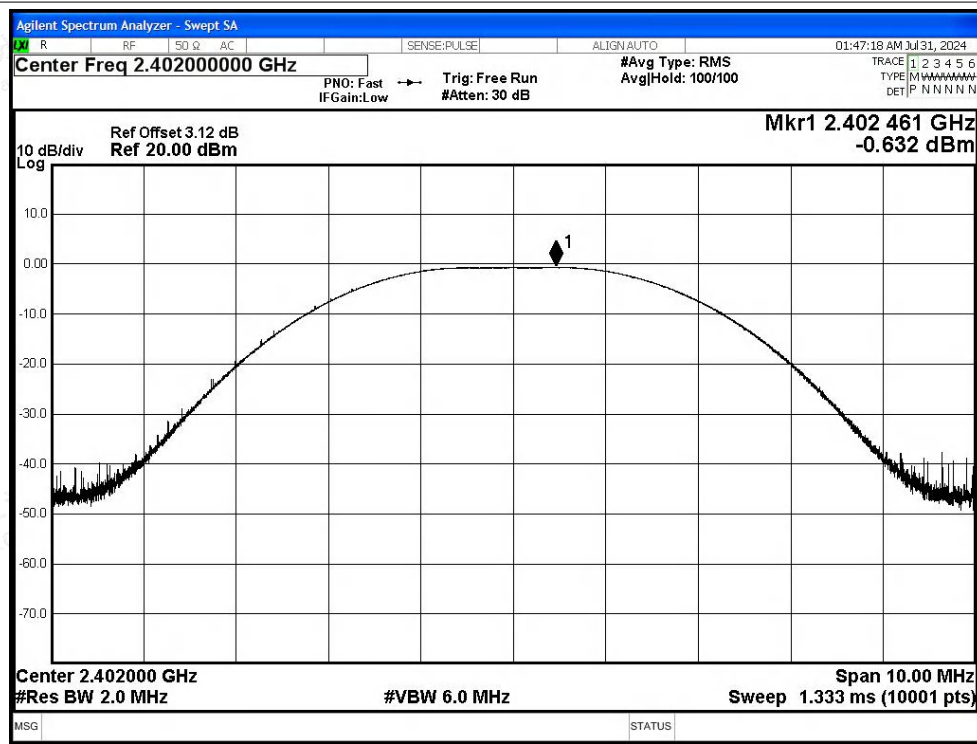
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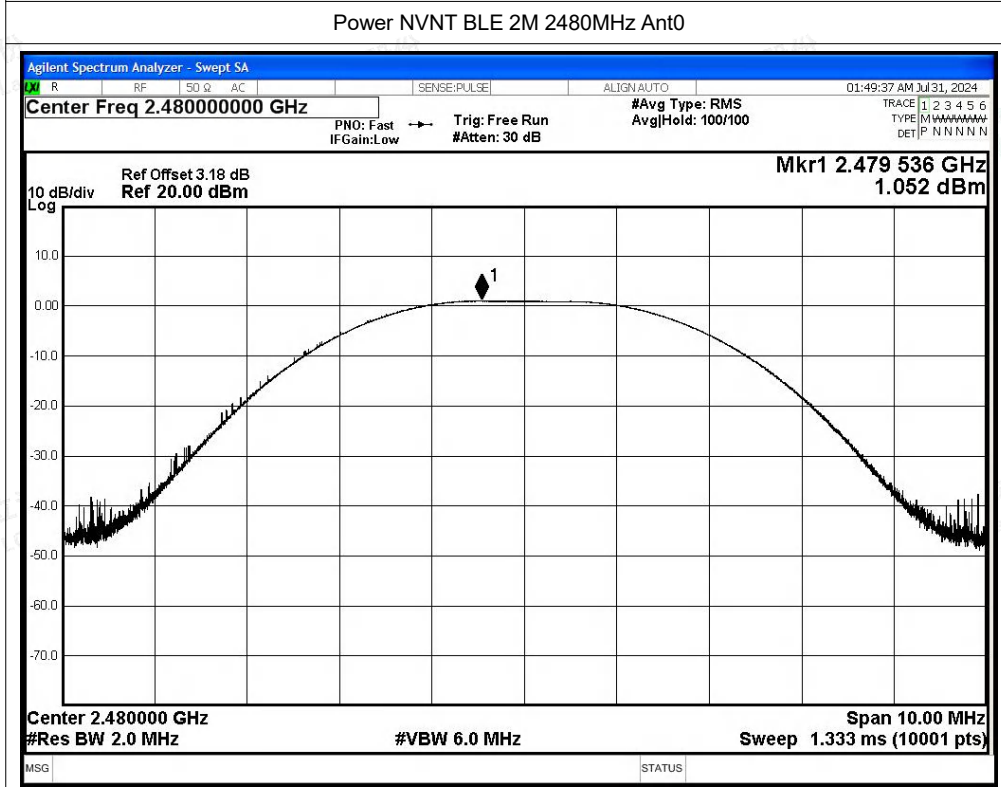
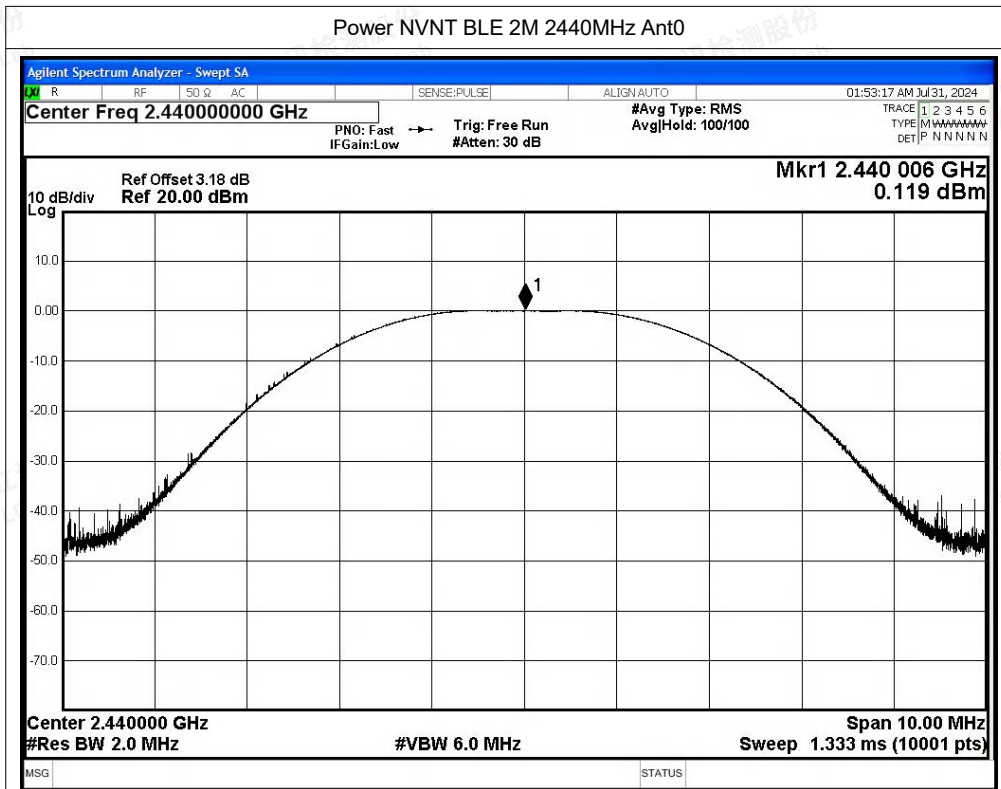


Power NVNT BLE 1M 2480MHz Ant0



Power NVNT BLE 2M 2402MHz Ant0





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B.3 Maximum Power Spectral Density Level

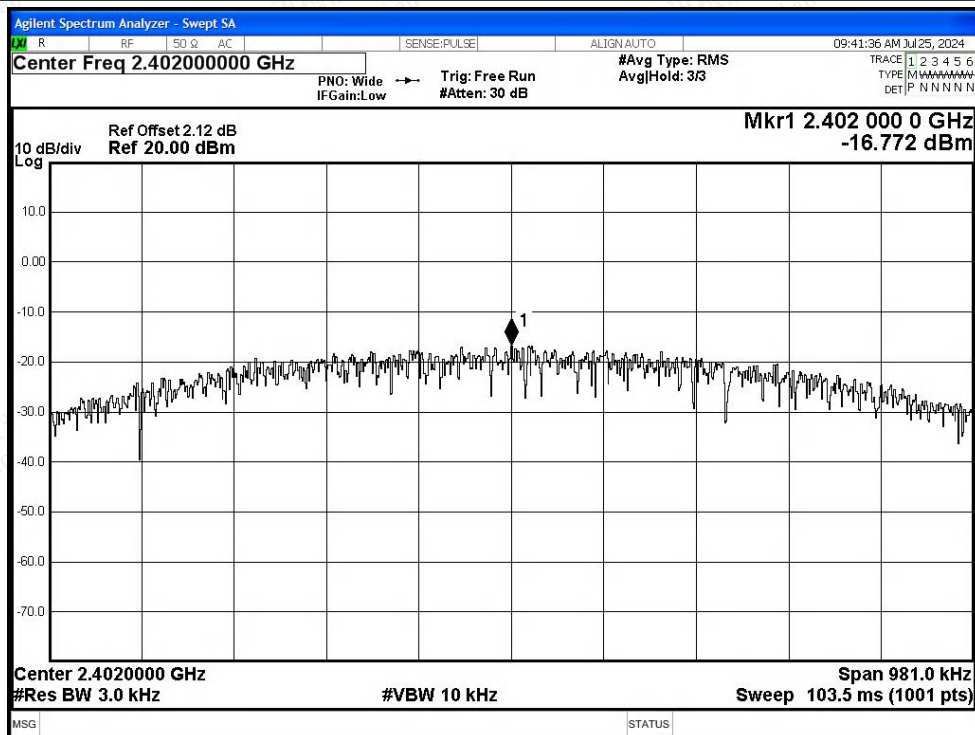
Condition	Mode	Frequency (MHz)	Antenna	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	BLE 1M	2402	Ant0	-16.77	8	Pass
NVNT	BLE 1M	2440	Ant0	-16.62	8	Pass
NVNT	BLE 1M	2480	Ant0	-17.64	8	Pass
NVNT	BLE 2M	2402	Ant0	-20.41	8	Pass
NVNT	BLE 2M	2440	Ant0	-19.13	8	Pass
NVNT	BLE 2M	2480	Ant0	-18.67	8	Pass



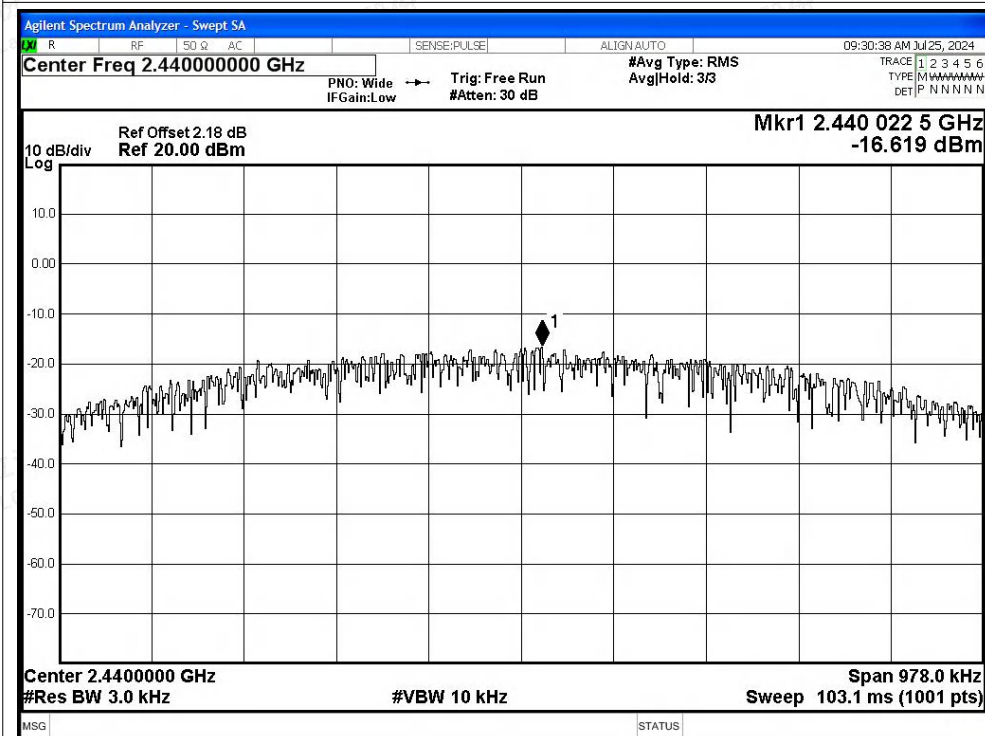


Test Graphs

PSD NVNT BLE 1M 2402MHz Ant0

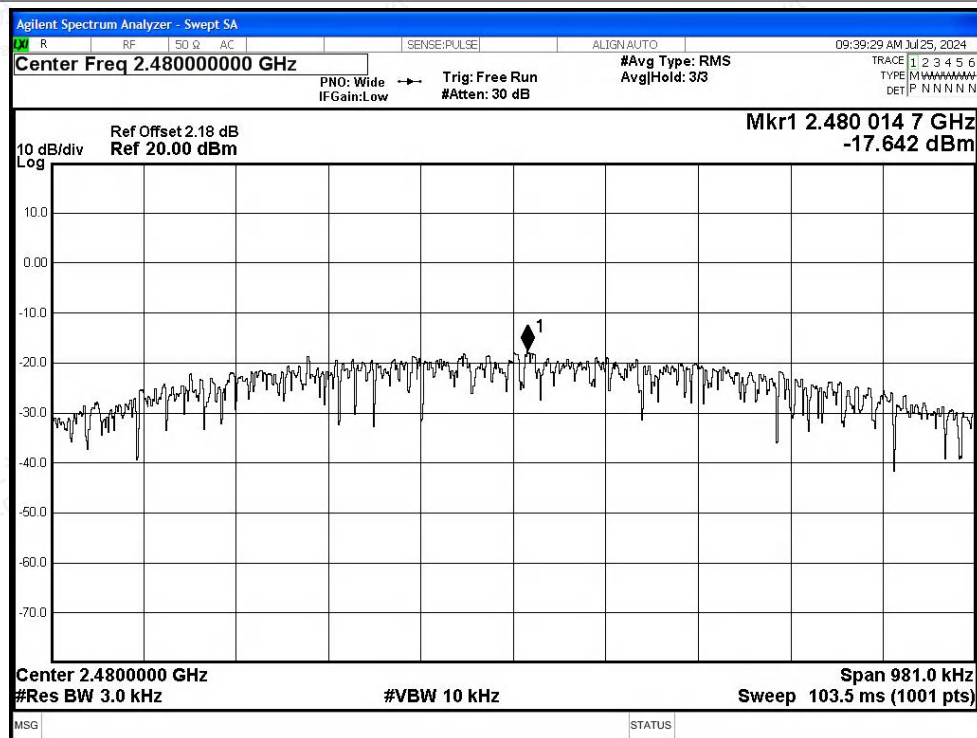


PSD NVNT BLE 1M 2440MHz Ant0

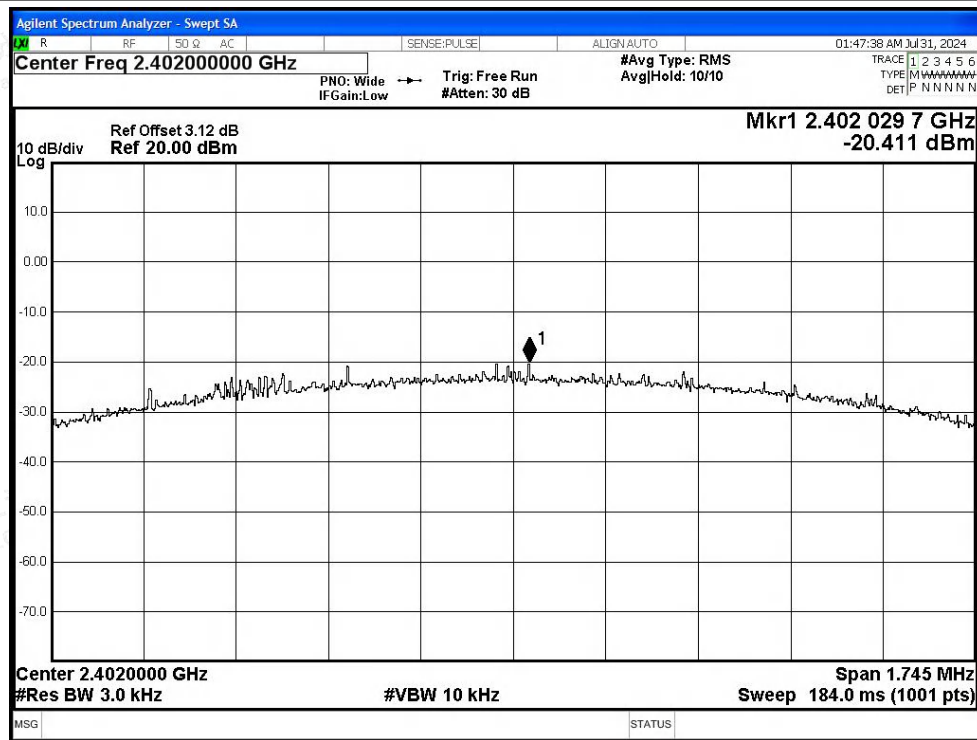




PSD NVNT BLE 1M 2480MHz Ant0

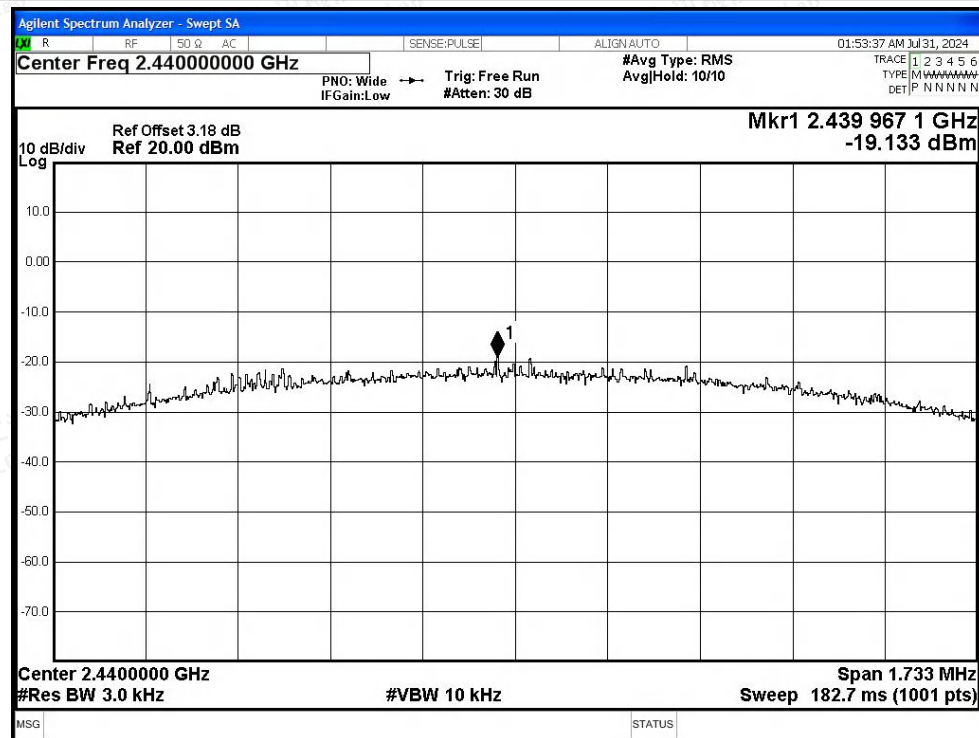


PSD NVNT BLE 2M 2402MHz Ant0

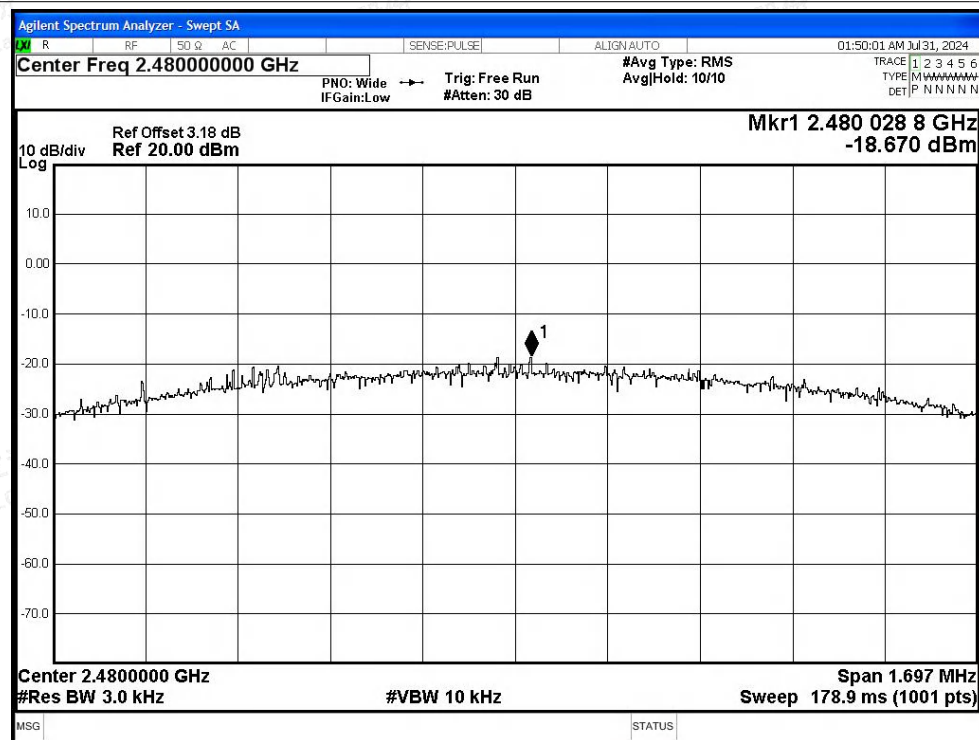




PSD NVNT BLE 2M 2440MHz Ant0



PSD NVNT BLE 2M 2480MHz Ant0



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B.4 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant0	-56.7	-20	Pass
NVNT	BLE 1M	2480	Ant0	-55.08	-20	Pass
NVNT	BLE 2M	2402	Ant0	-46.27	-20	Pass
NVNT	BLE 2M	2480	Ant0	-56.33	-20	Pass

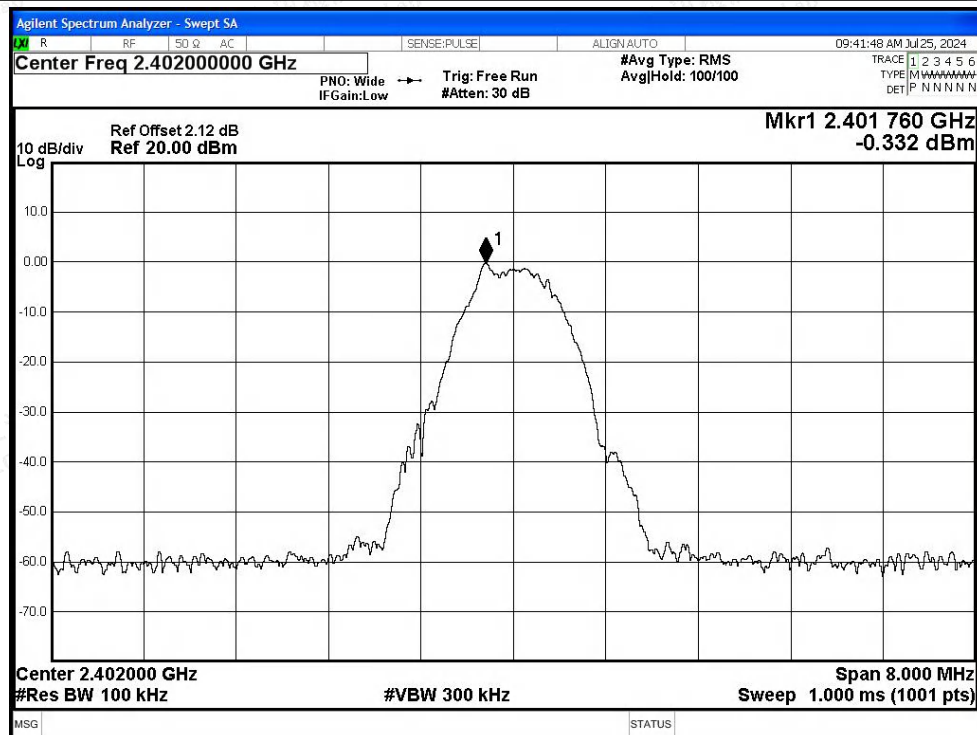


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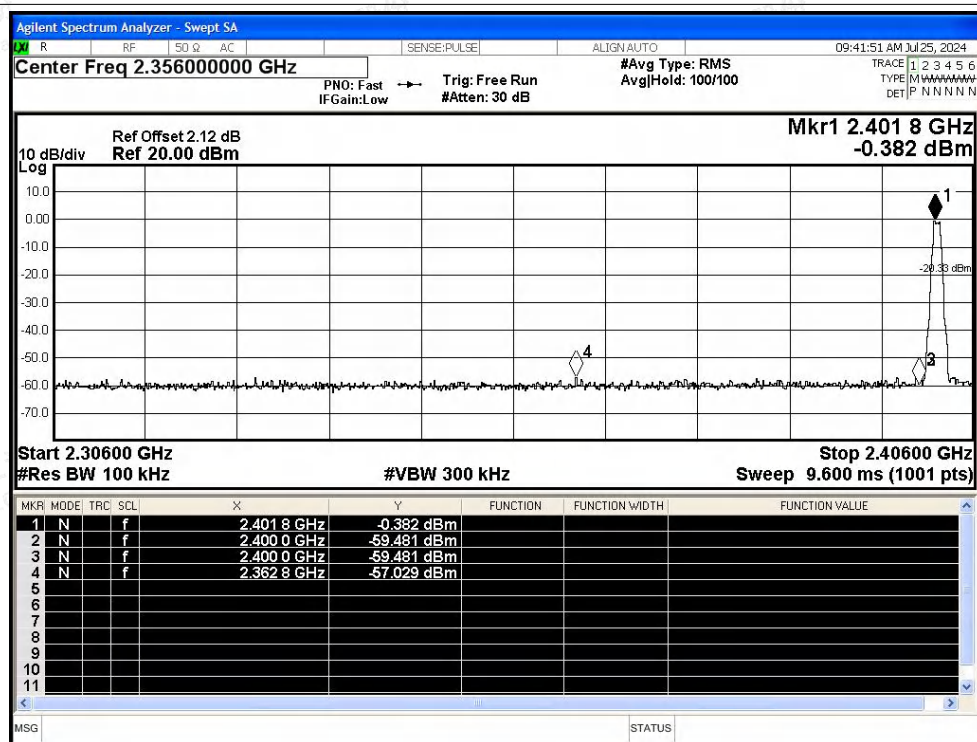


Test Graphs

Band Edge NVNT BLE 1M 2402MHz Ant0 Ref



Band Edge NVNT BLE 1M 2402MHz Ant0 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

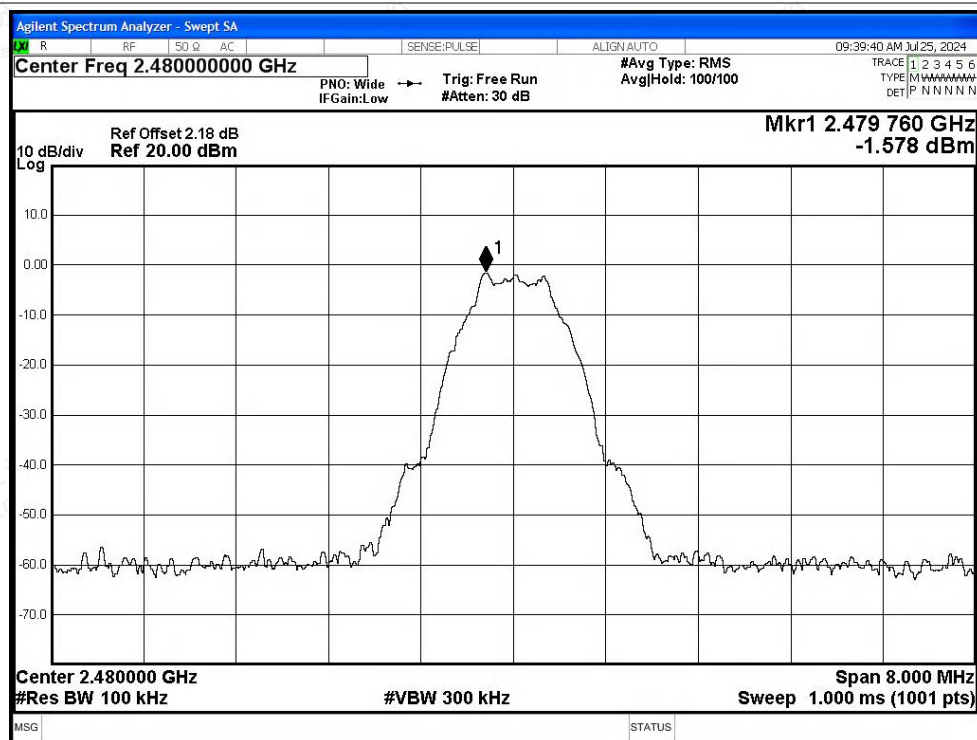
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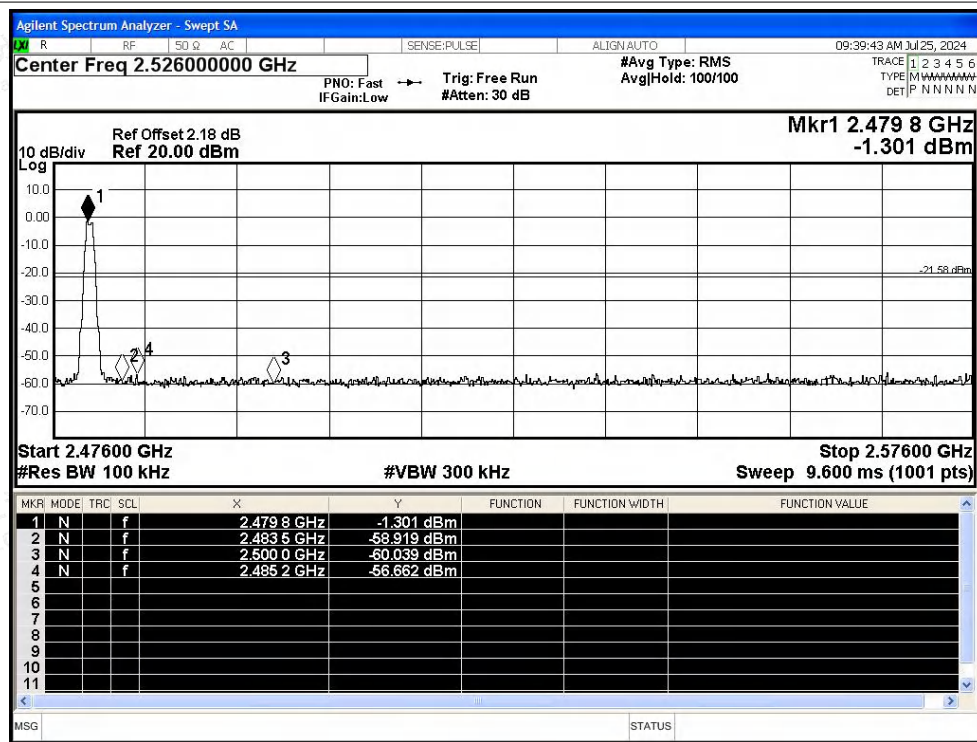
Scan code to check authenticity



Band Edge NVNT BLE 1M 2480MHz Ant0 Ref



Band Edge NVNT BLE 1M 2480MHz Ant0 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

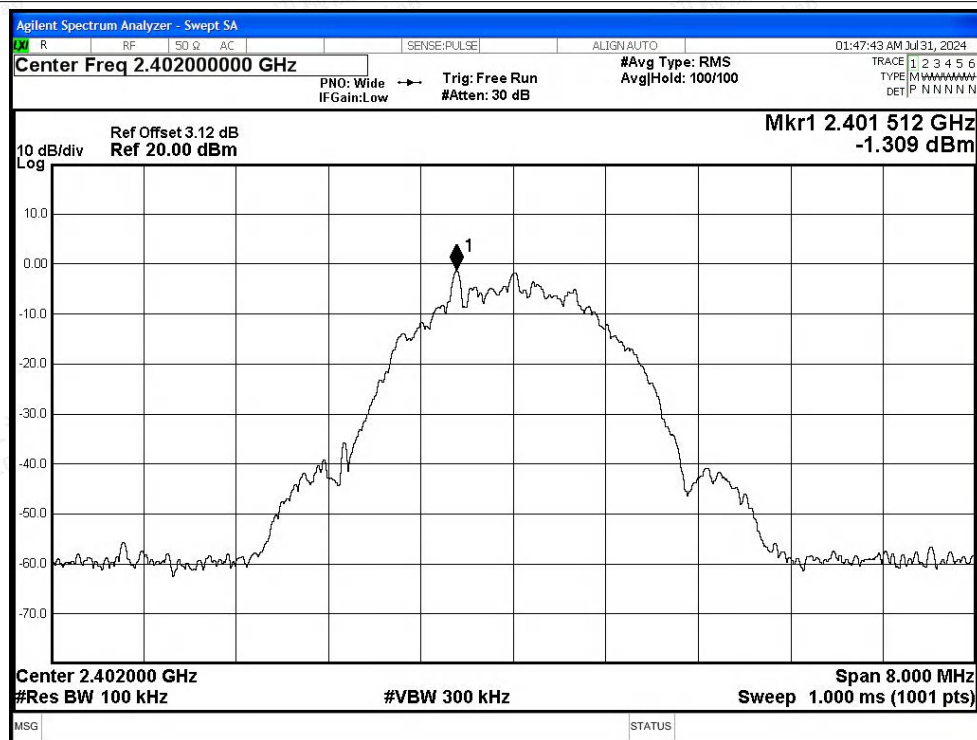
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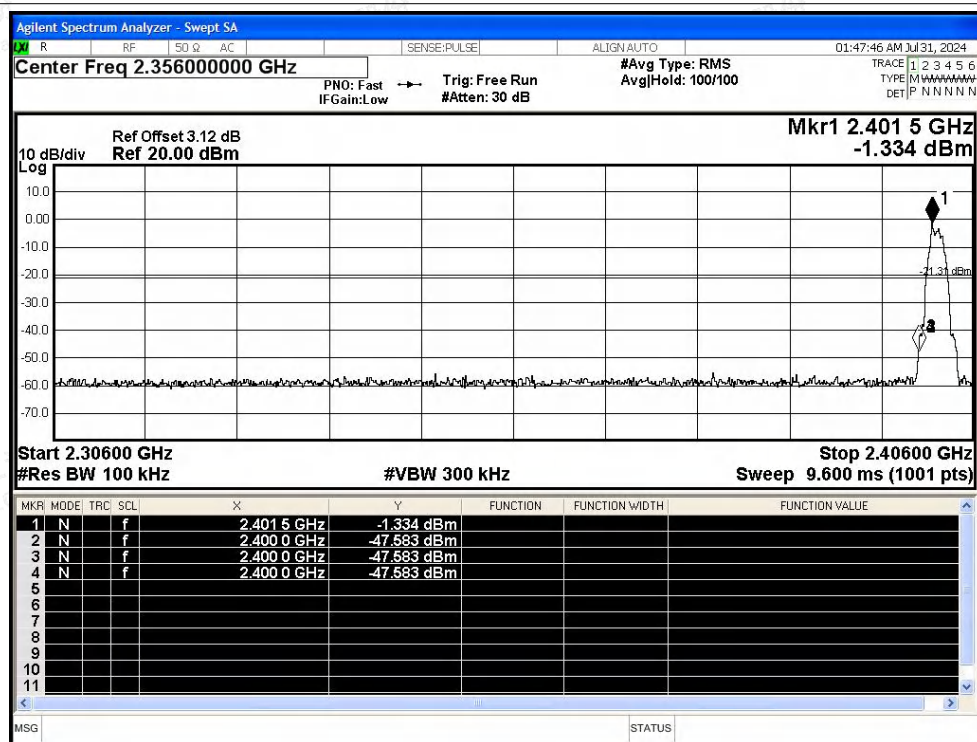
Scan code to check authenticity



Band Edge NVNT BLE 2M 2402MHz Ant0 Ref



Band Edge NVNT BLE 2M 2402MHz Ant0 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

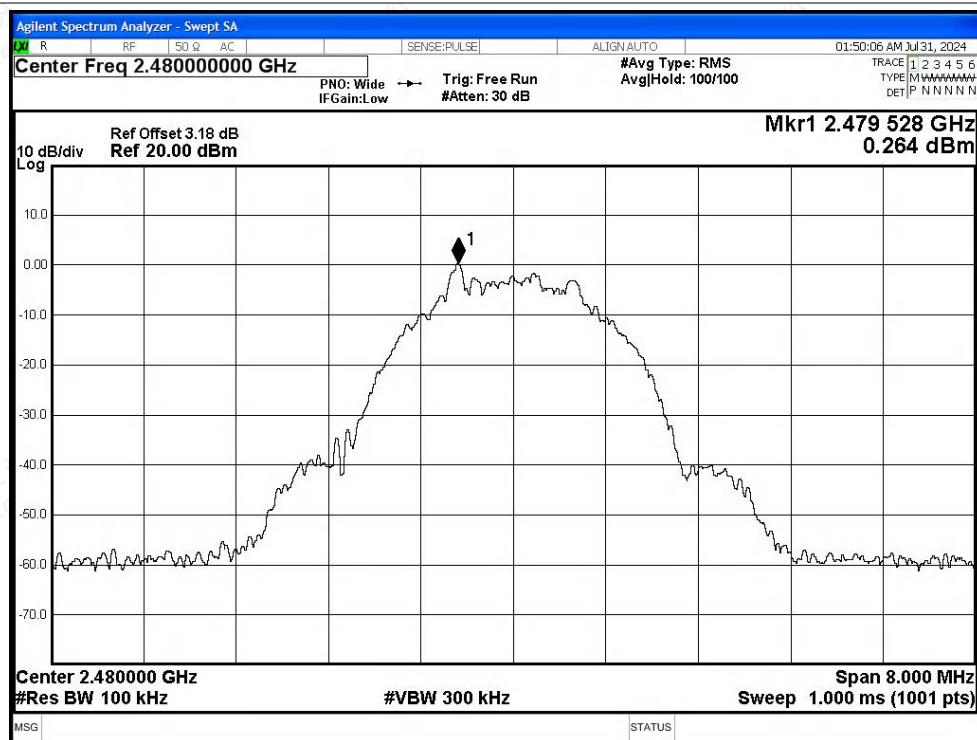
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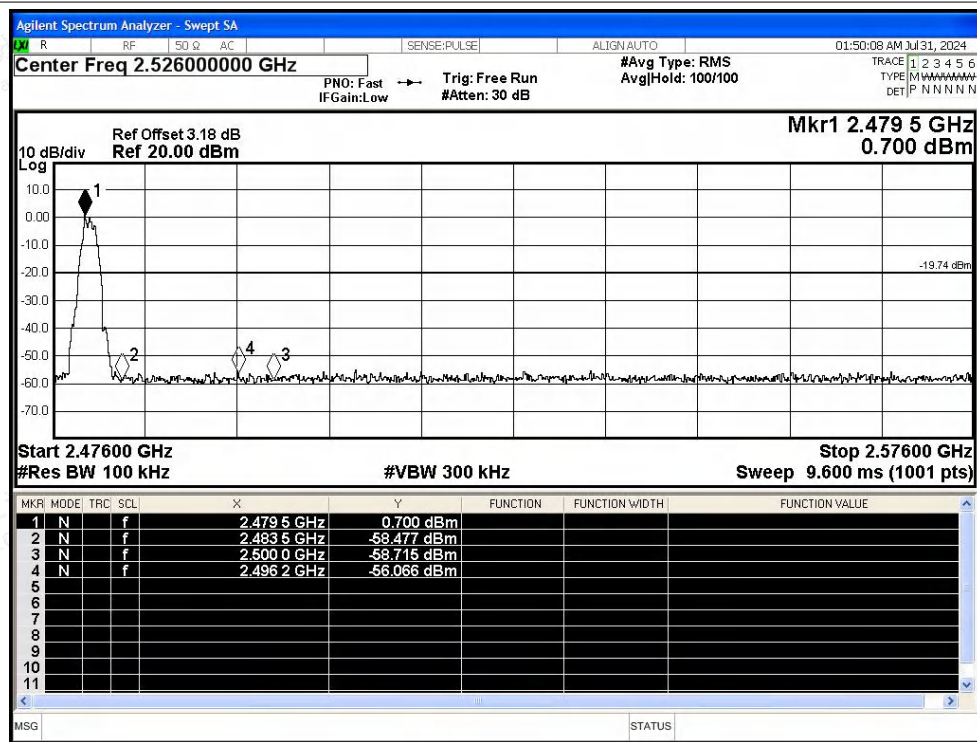
Scan code to check authenticity



Band Edge NVNT BLE 2M 2480MHz Ant0 Ref



Band Edge NVNT BLE 2M 2480MHz Ant0 Emission



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B.5 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant0	-54.35	-20	Pass
NVNT	BLE 1M	2440	Ant0	-55.54	-20	Pass
NVNT	BLE 1M	2480	Ant0	-54.61	-20	Pass
NVNT	BLE 2M	2402	Ant0	-52.62	-20	Pass
NVNT	BLE 2M	2440	Ant0	-52.59	-20	Pass
NVNT	BLE 2M	2480	Ant0	-53.85	-20	Pass

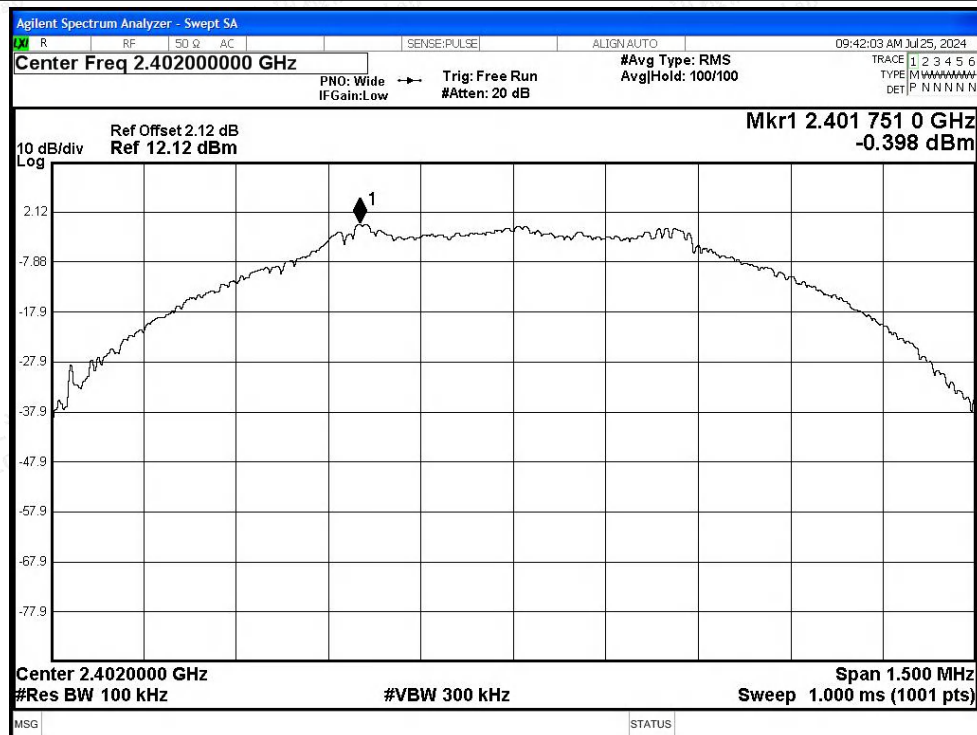


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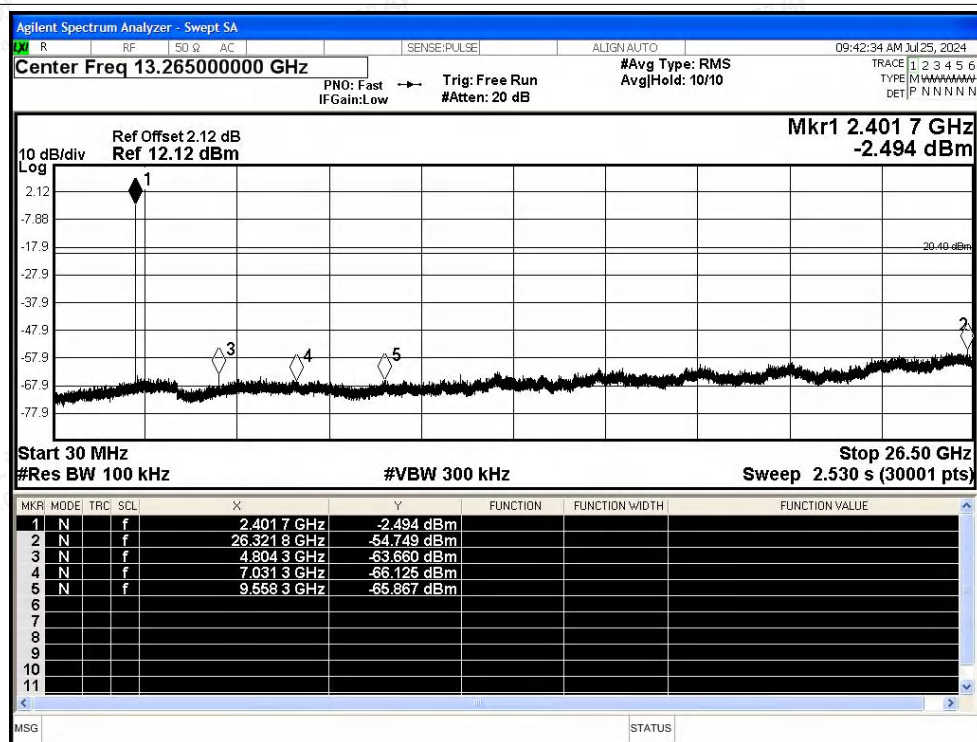


Test Graphs

Tx. Spurious NVNT BLE 1M 2402MHz Ant0 Ref



Tx. Spurious NVNT BLE 1M 2402MHz Ant0 Emission



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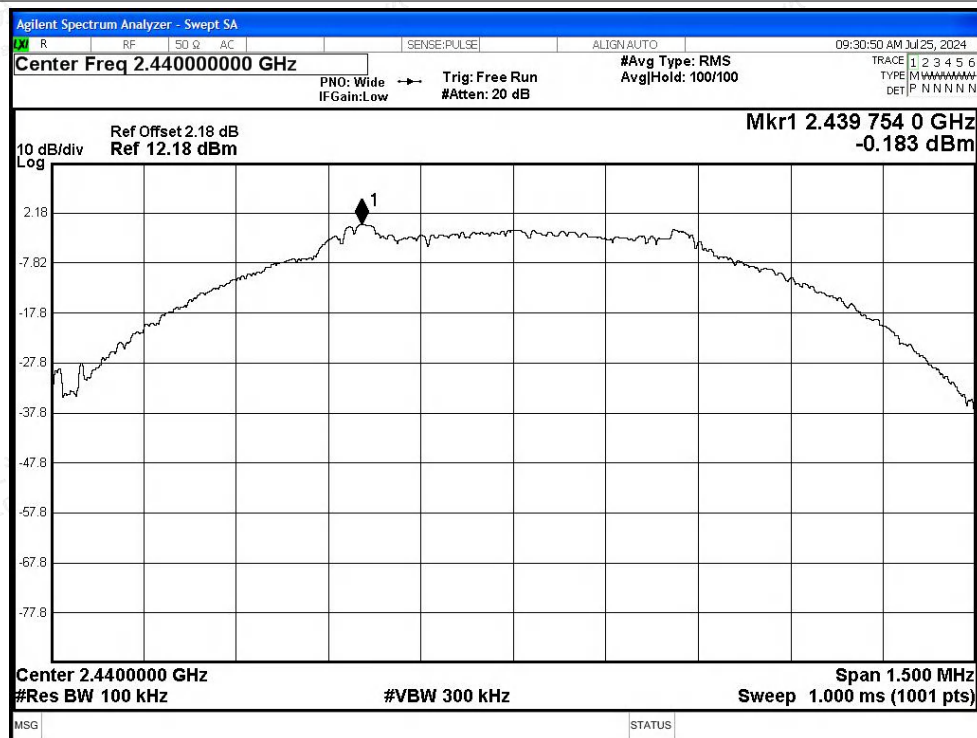
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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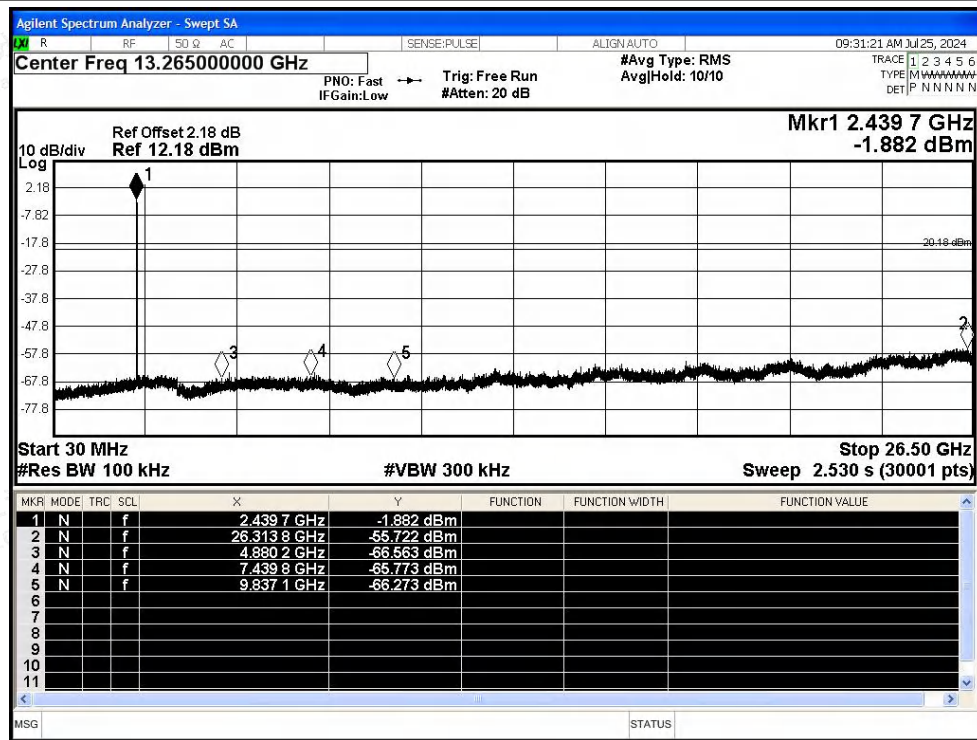
Scan code to check authenticity



Tx. Spurious NVNT BLE 1M 2440MHz Ant0 Ref



Tx. Spurious NVNT BLE 1M 2440MHz Ant0 Emission



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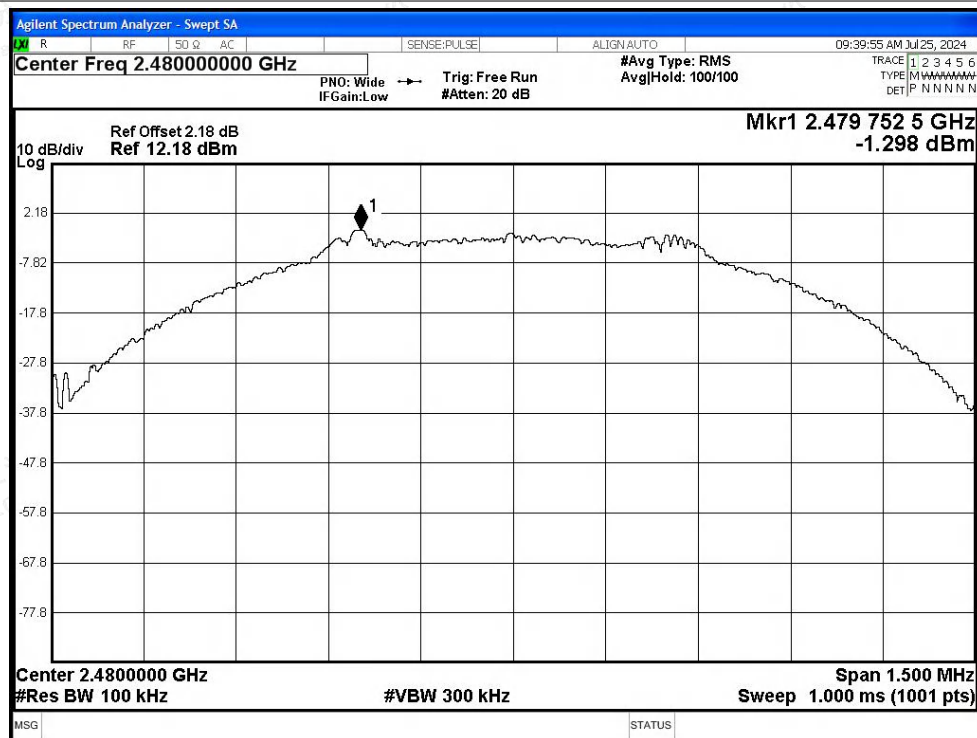
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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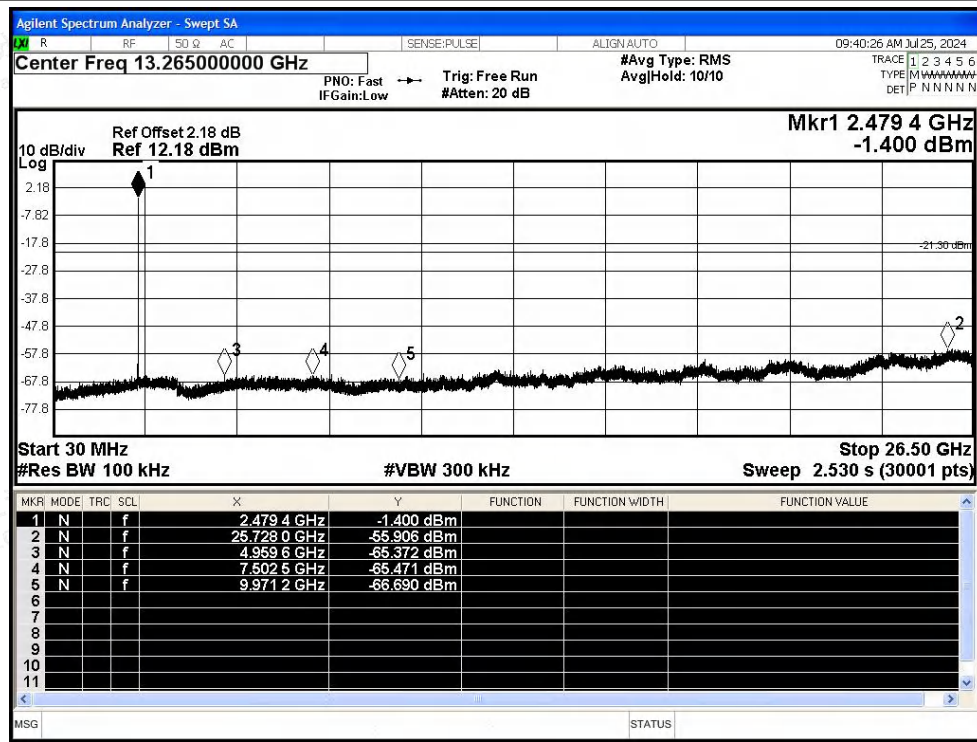
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Tx. Spurious NVNT BLE 1M 2480MHz Ant0 Ref



Tx. Spurious NVNT BLE 1M 2480MHz Ant0 Emission



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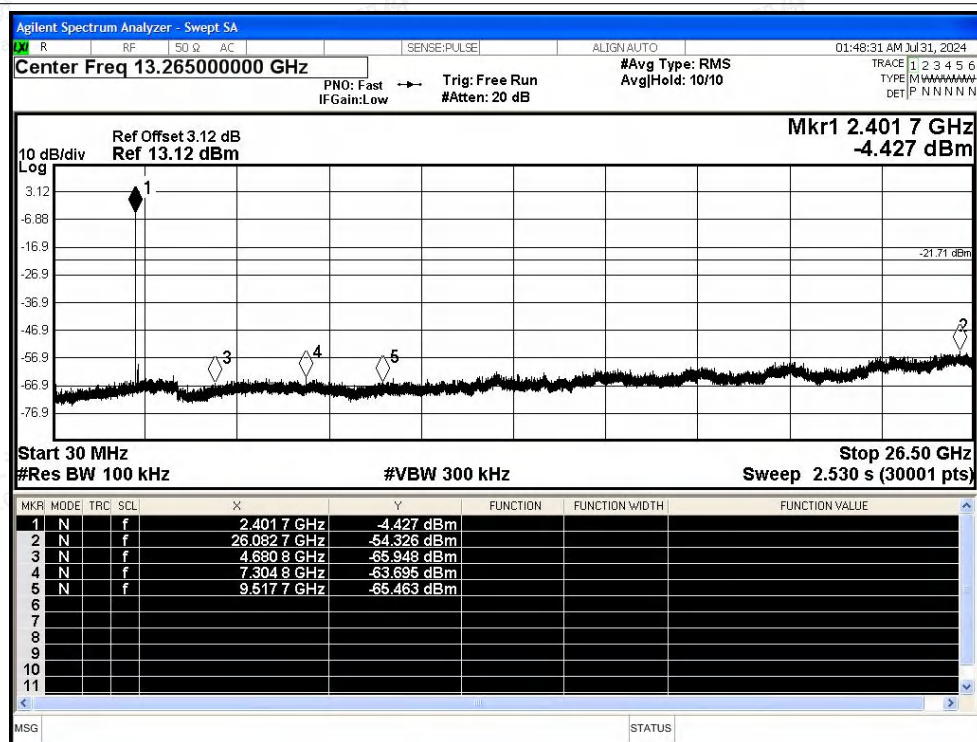
Scan code to check authenticity



Tx. Spurious NVNT BLE 2M 2402MHz Ant0 Ref



Tx. Spurious NVNT BLE 2M 2402MHz Ant0 Emission



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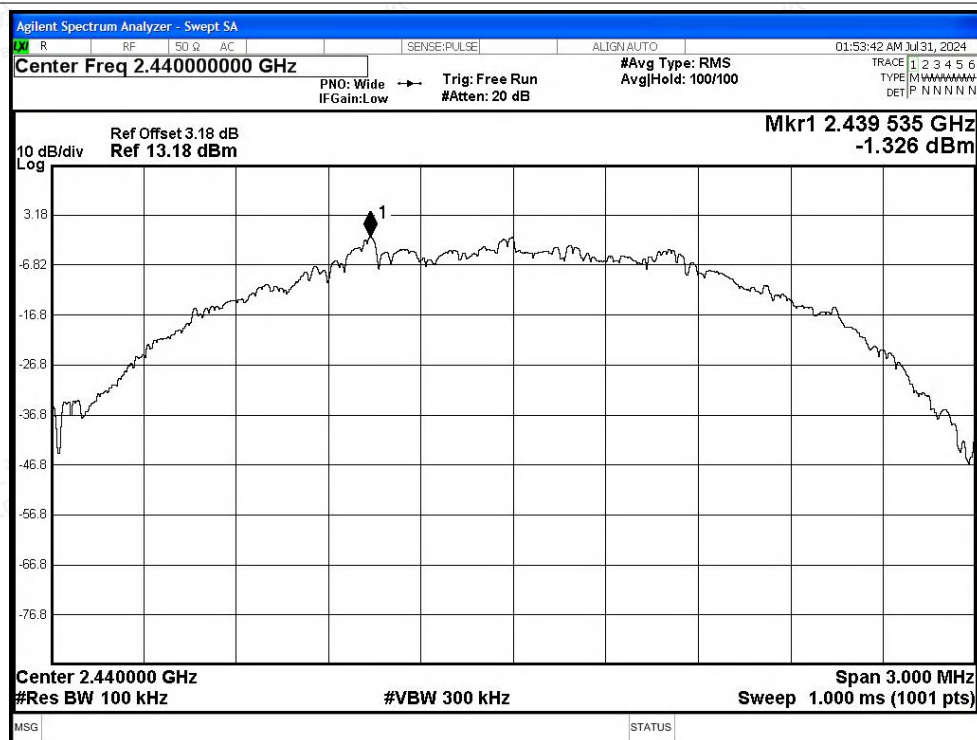
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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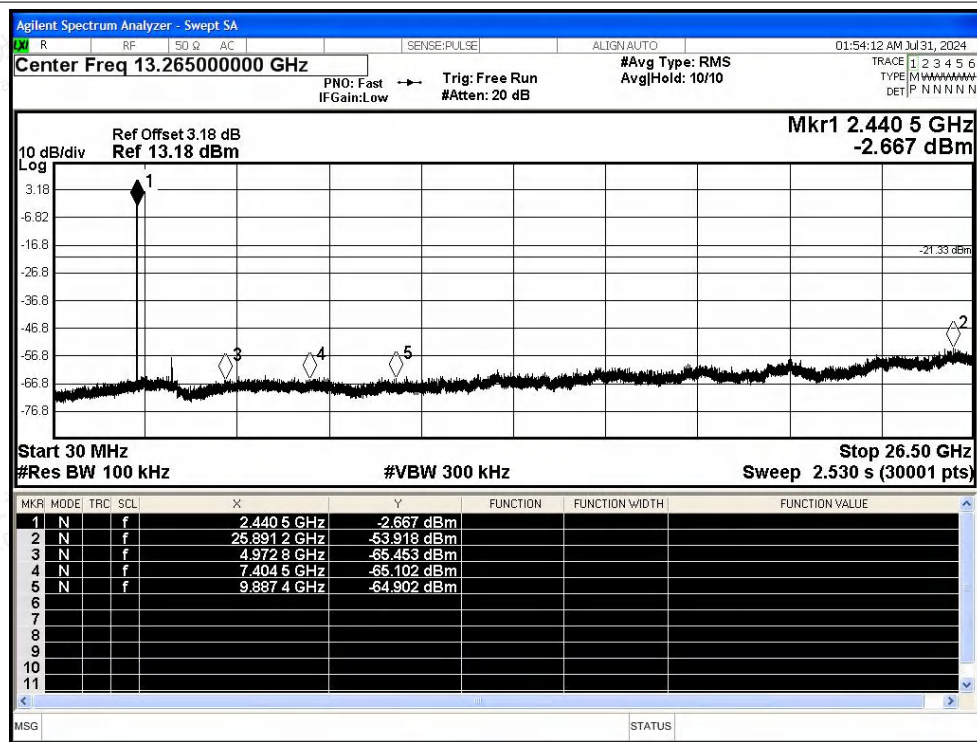
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Tx. Spurious NVNT BLE 2M 2440MHz Ant0 Ref



Tx. Spurious NVNT BLE 2M 2440MHz Ant0 Emission



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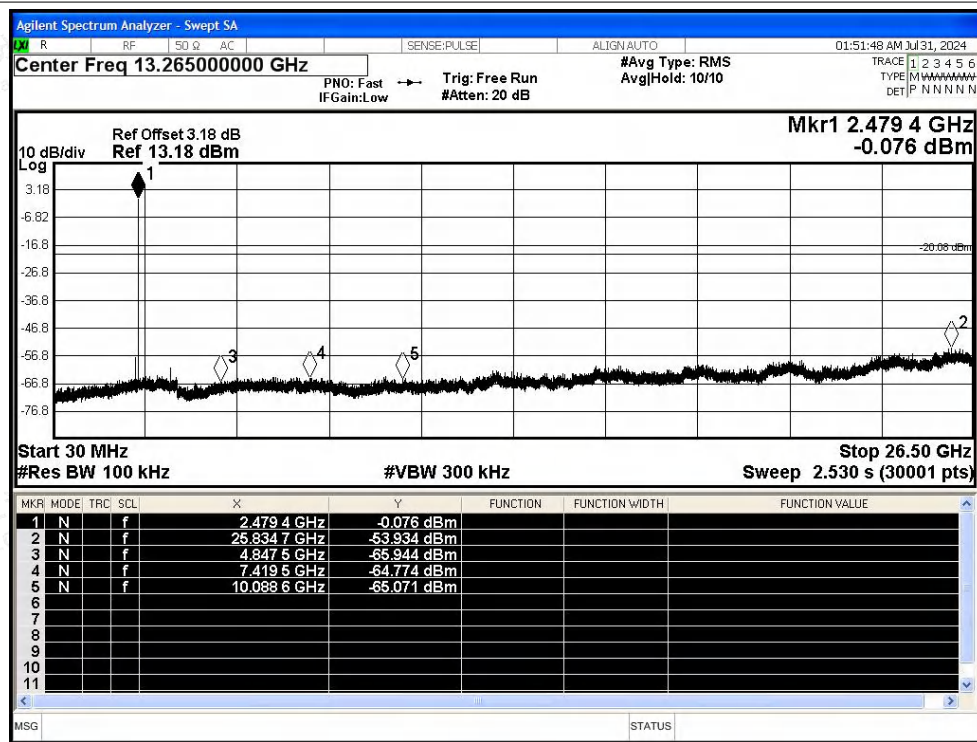
Scan code to check authenticity



Tx. Spurious NVNT BLE 2M 2480MHz Ant0 Ref



Tx. Spurious NVNT BLE 2M 2480MHz Ant0 Emission





B.6 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	BLE 1M	2402	Ant0	87.39	0.59	0.61
NVNT	BLE 1M	2440	Ant0	87.39	0.59	0.61
NVNT	BLE 1M	2480	Ant0	87.39	0.59	0.61
NVNT	BLE 2M	2402	Ant0	65.92	1.81	1.21
NVNT	BLE 2M	2440	Ant0	65.93	1.81	1.21
NVNT	BLE 2M	2480	Ant0	65.96	1.81	1.21

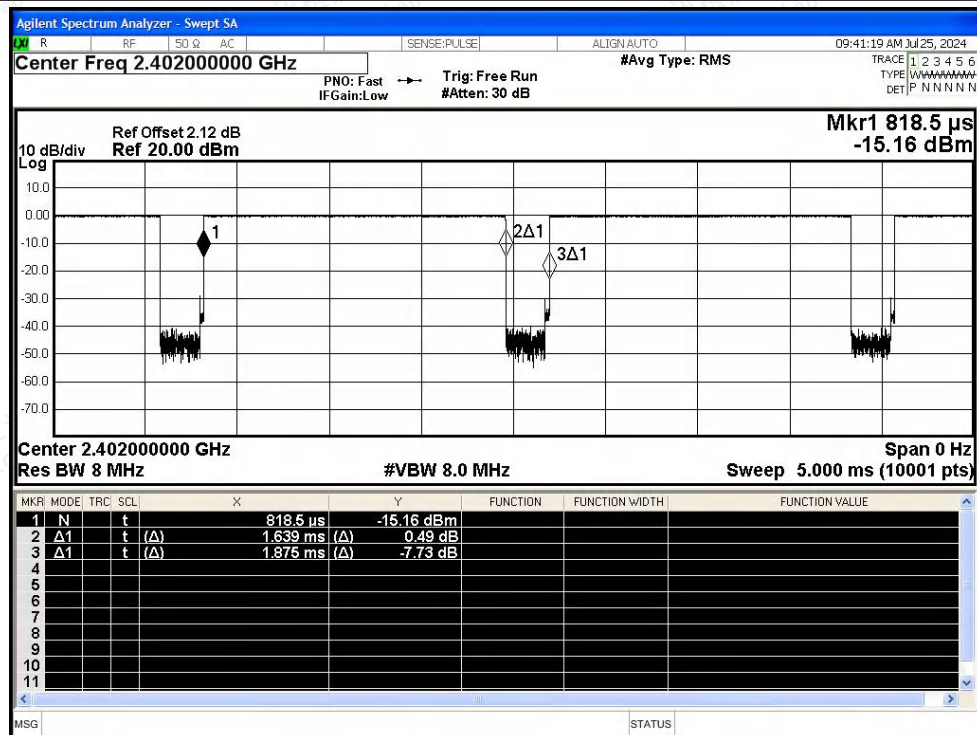


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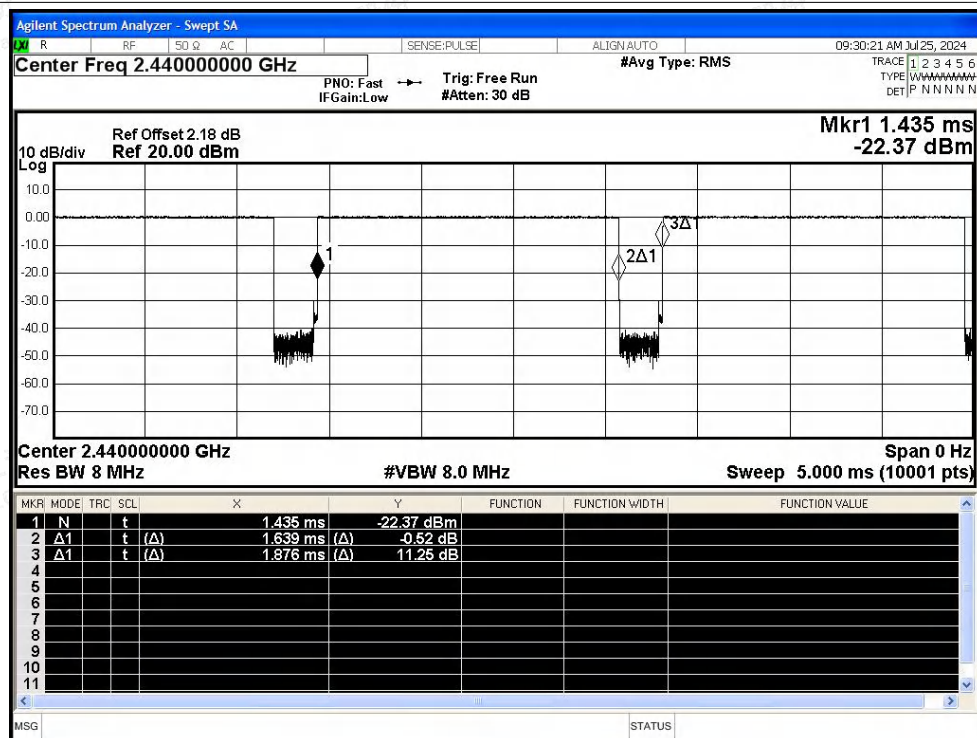


Test Graphs

Duty Cycle NVNT BLE 1M 2402MHz Ant0

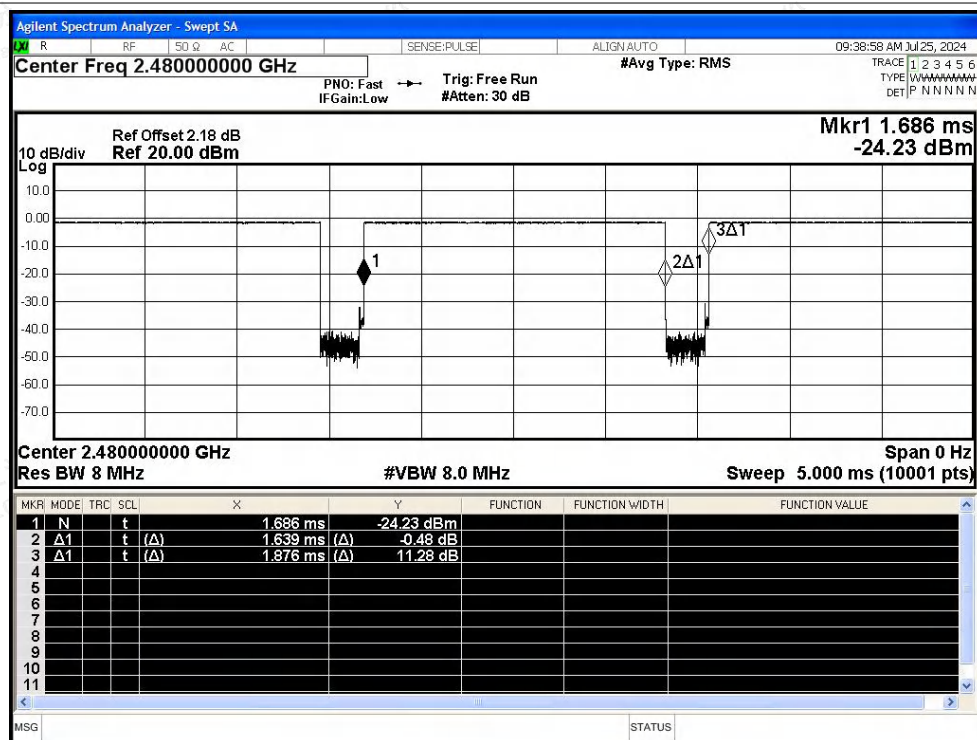


Duty Cycle NVNT BLE 1M 2440MHz Ant0

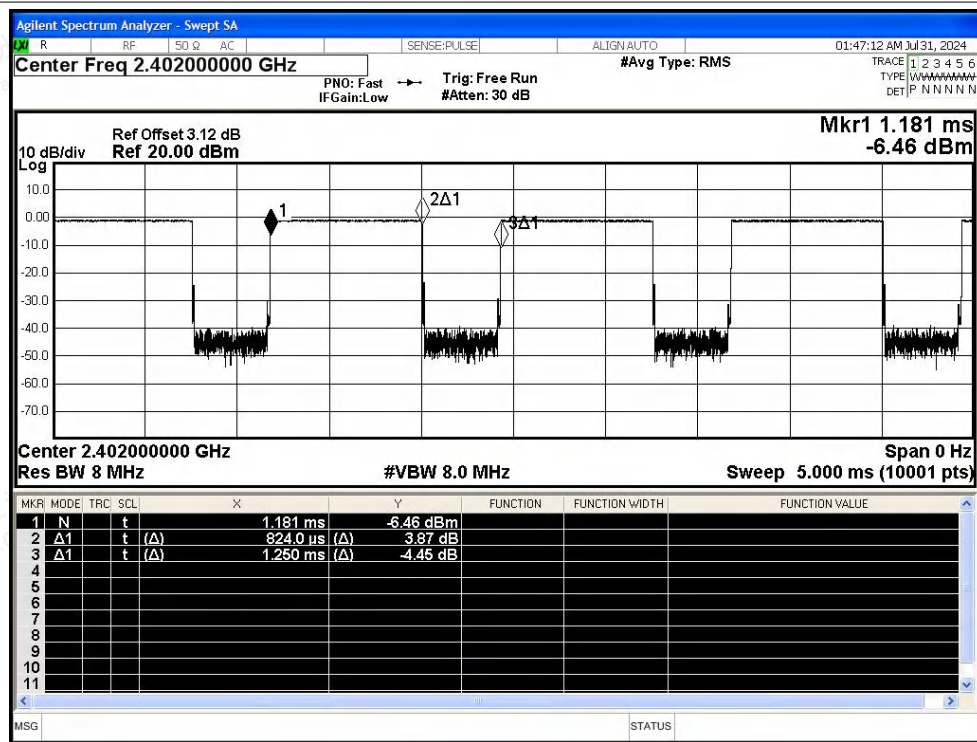




Duty Cycle NVNT BLE 1M 2480MHz Ant0

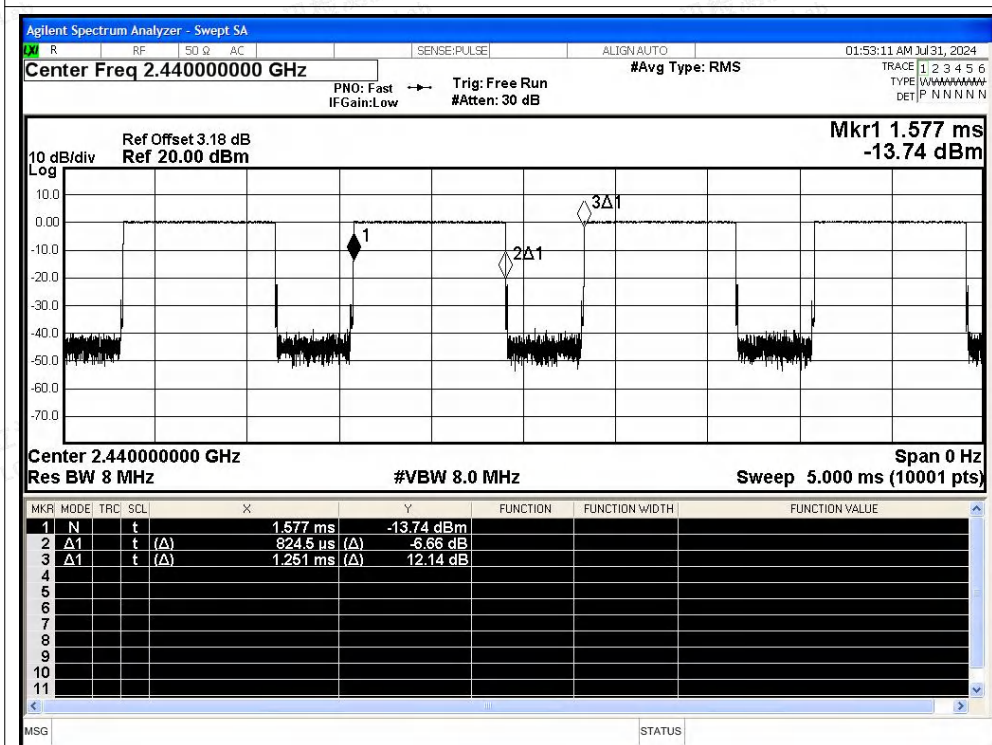


Duty Cycle NVNT BLE 2M 2402MHz Ant0

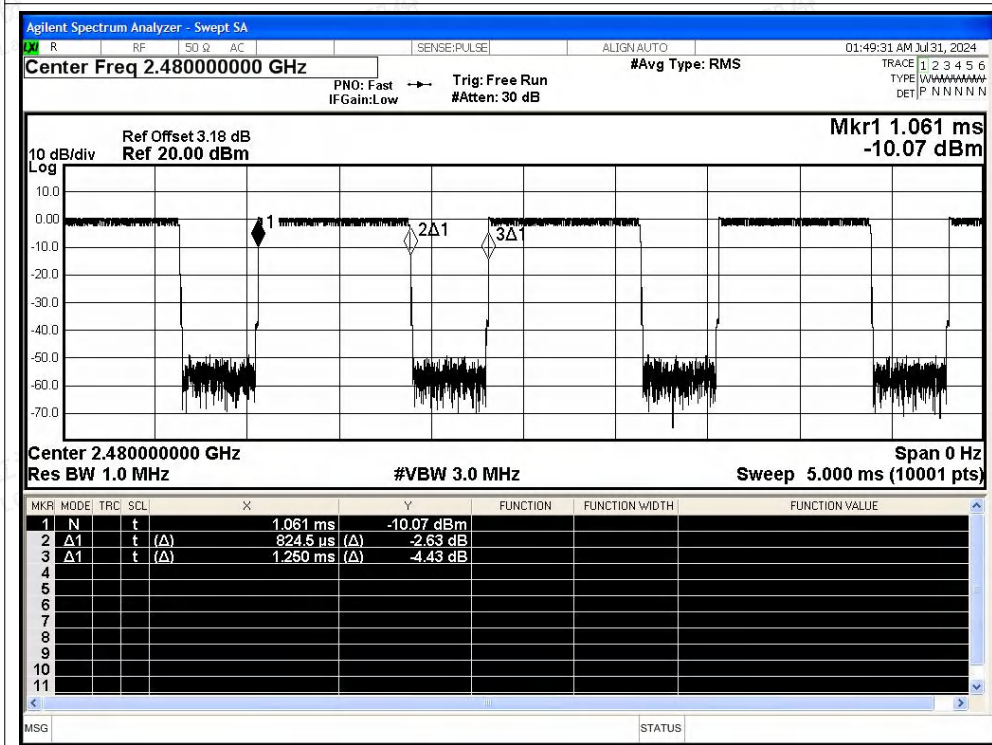




Duty Cycle NVNT BLE 2M 2440MHz Ant0



Duty Cycle NVNT BLE 2M 2480MHz Ant0





B.7 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	BLE 1M	2402	Ant0	2310	-50.18	2.93	-	48.01	Peak	74	Pass
NVNT	BLE 1M	2402	Ant0	2310	-59.01	2.93	0.59	39.77	Average	54	Pass
NVNT	BLE 1M	2402	Ant0	2346.864	-47.47	2.93	-	50.72	Peak	74	Pass
NVNT	BLE 1M	2402	Ant0	2386.224	-57.77	2.93	0.59	41.01	Average	54	Pass
NVNT	BLE 1M	2402	Ant0	2390	-49.81	2.93	-	48.38	Peak	74	Pass
NVNT	BLE 1M	2402	Ant0	2390	-57.95	2.93	0.59	40.83	Average	54	Pass
NVNT	BLE 1M	2480	Ant0	2483.5	-49.37	2.93	-	48.82	Peak	74	Pass
NVNT	BLE 1M	2480	Ant0	2483.5	-57.73	2.93	0.59	41.05	Average	54	Pass
NVNT	BLE 1M	2480	Ant0	2485.024	-44.35	2.93	-	53.84	Peak	74	Pass
NVNT	BLE 1M	2480	Ant0	2486.8	-56.85	2.93	0.59	41.93	Average	54	Pass
NVNT	BLE 1M	2480	Ant0	2500	-49.84	2.93	-	48.35	Peak	74	Pass
NVNT	BLE 1M	2480	Ant0	2500	-57.87	2.93	0.59	40.91	Average	54	Pass
NVNT	BLE 2M	2402	Ant0	2310	-48.77	2.93	-	49.42	Peak	74	Pass
NVNT	BLE 2M	2402	Ant0	2310	-57.26	2.93	1.81	42.74	Average	54	Pass
NVNT	BLE 2M	2402	Ant0	2387.184	-45.94	2.93	-	52.25	Peak	74	Pass
NVNT	BLE 2M	2402	Ant0	2372.976	-56.7	2.93	1.81	43.3	Average	54	Pass
NVNT	BLE 2M	2402	Ant0	2390	-49.3	2.93	-	48.89	Peak	74	Pass
NVNT	BLE 2M	2402	Ant0	2390	-57.16	2.93	1.81	42.84	Average	54	Pass
NVNT	BLE 2M	2480	Ant0	2483.5	-46.54	2.93	-	51.65	Peak	74	Pass
NVNT	BLE 2M	2480	Ant0	2483.5	-56.6	2.93	1.81	43.4	Average	54	Pass
NVNT	BLE 2M	2480	Ant0	2483.608	-43.06	2.93	-	55.13	Peak	74	Pass
NVNT	BLE 2M	2480	Ant0	2491.456	-56.1	2.93	1.81	43.9	Average	54	Pass
NVNT	BLE 2M	2480	Ant0	2500	-49.79	2.93	-	48.4	Peak	74	Pass
NVNT	BLE 2M	2480	Ant0	2500	-57.3	2.93	1.81	42.7	Average	54	Pass



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

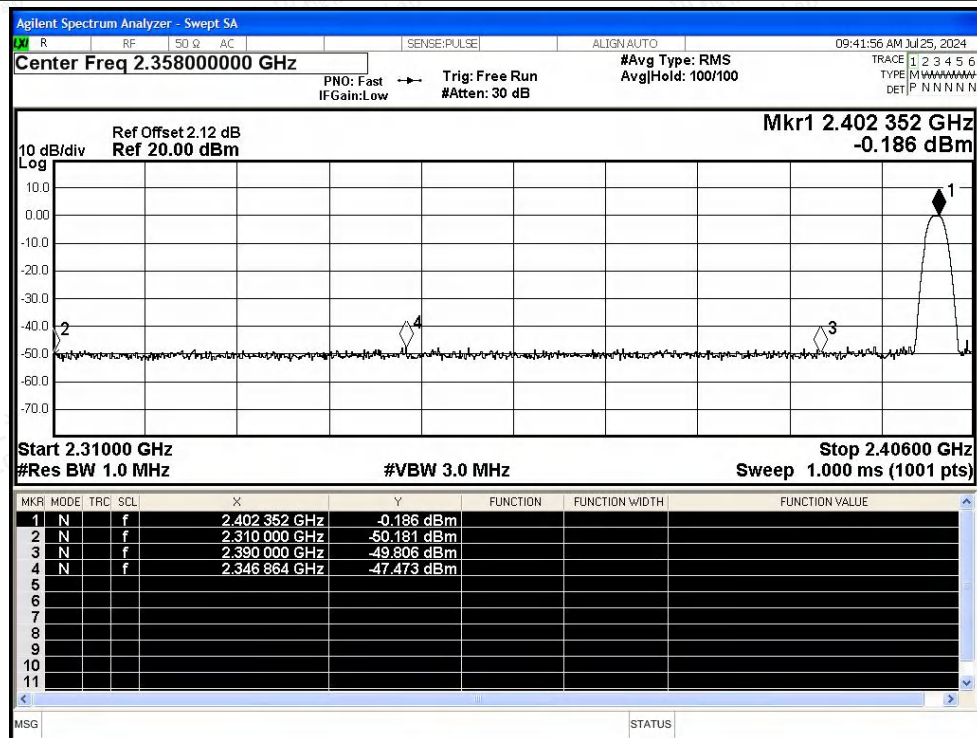
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity

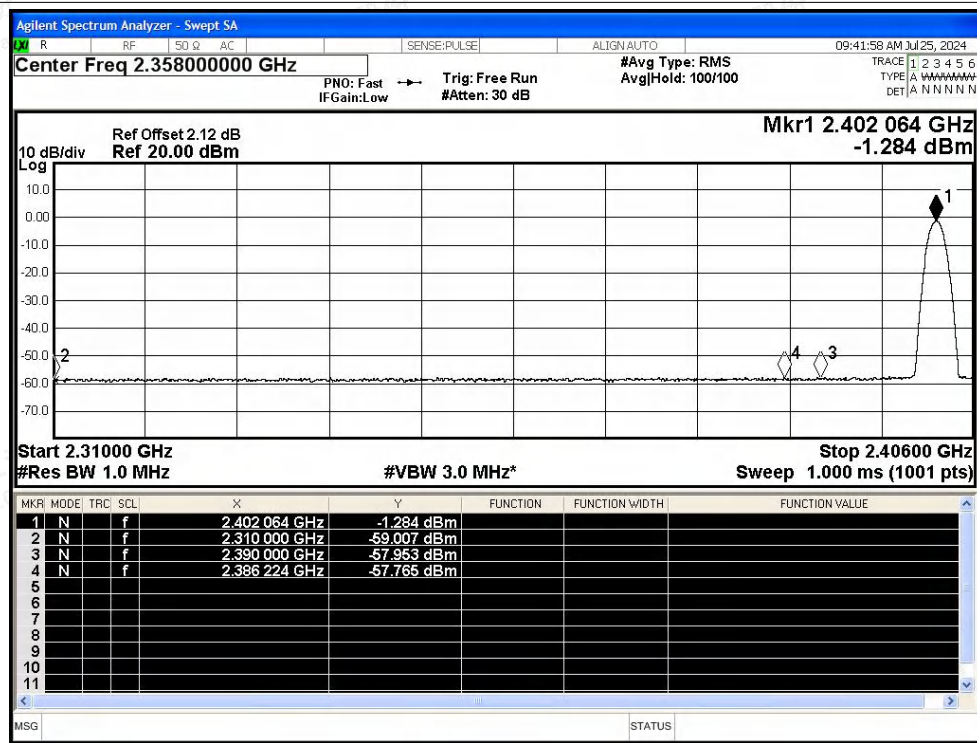


Test Graphs

Restrict Band NVNT BLE 1M 2402MHz Ant0 Peak



Restrict Band NVNT BLE 1M 2402MHz Ant0 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

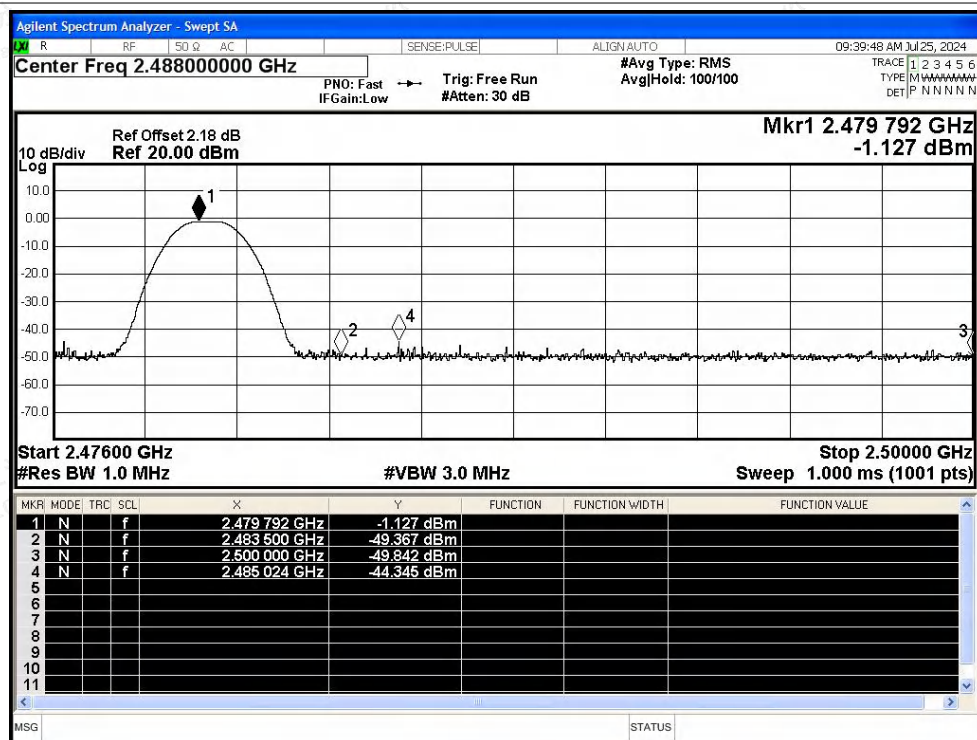
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

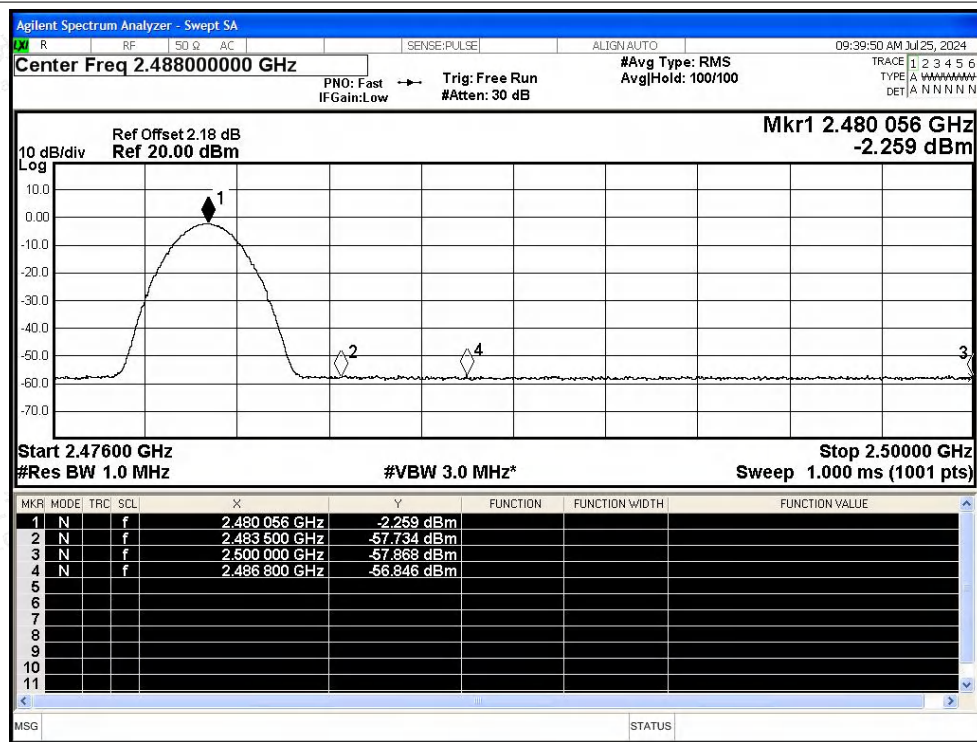
Scan code to check authenticity



Restrict Band NVNT BLE 1M 2480MHz Ant0 Peak

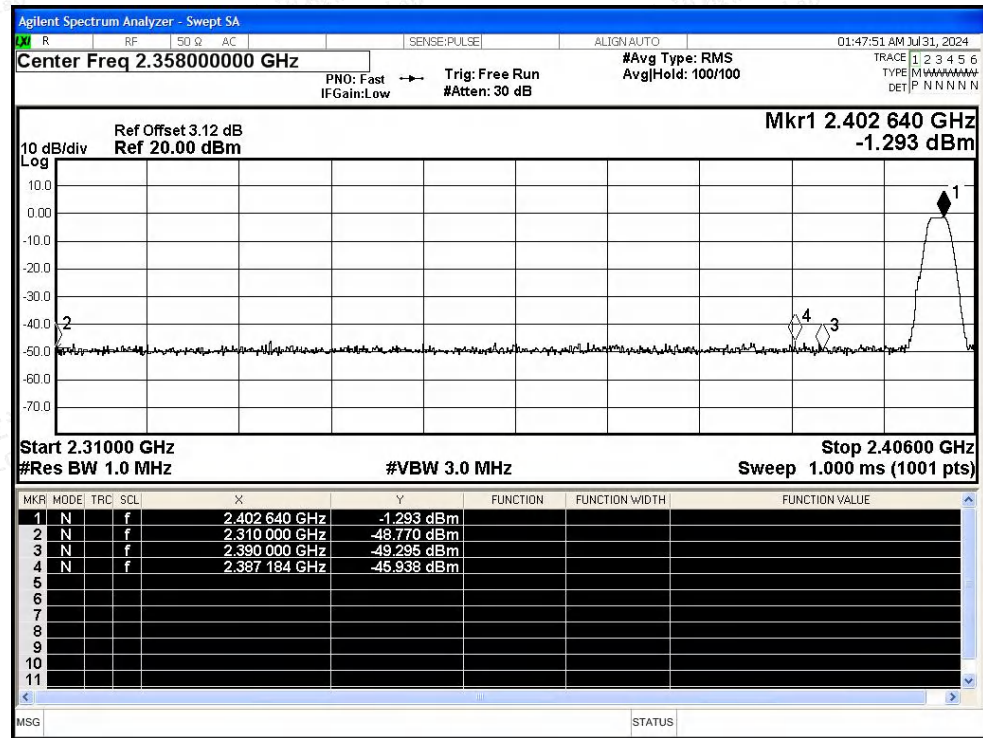


Restrict Band NVNT BLE 1M 2480MHz Ant0 Average

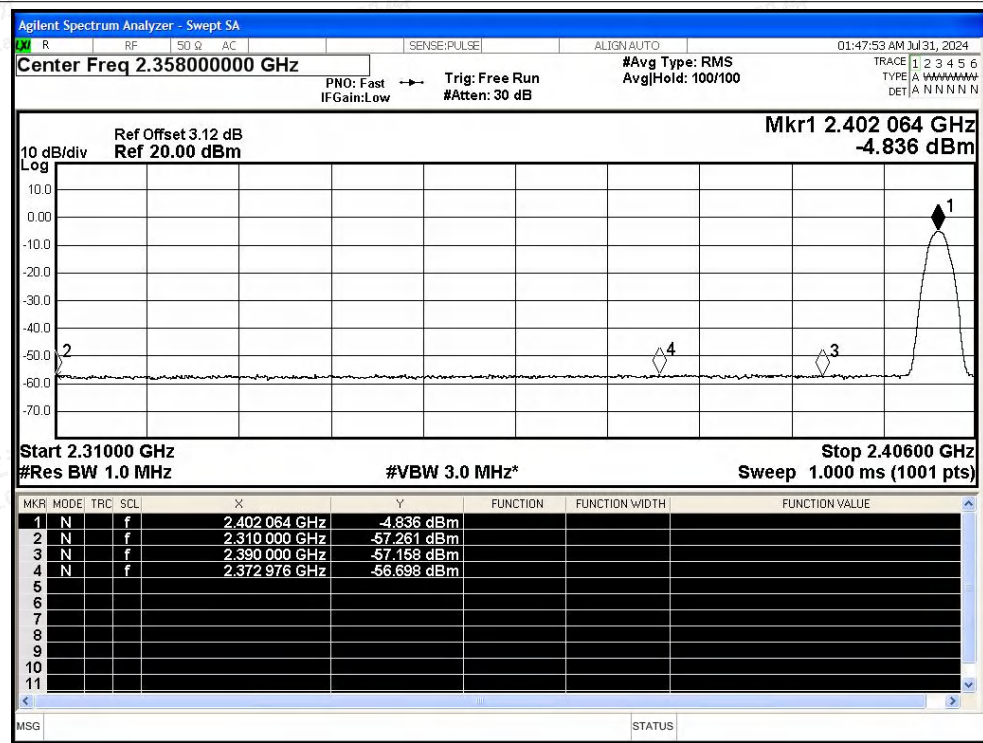




Restrict Band NVNT BLE 2M 2402MHz Ant1 Peak



Restrict Band NVNT BLE 2M 2402MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

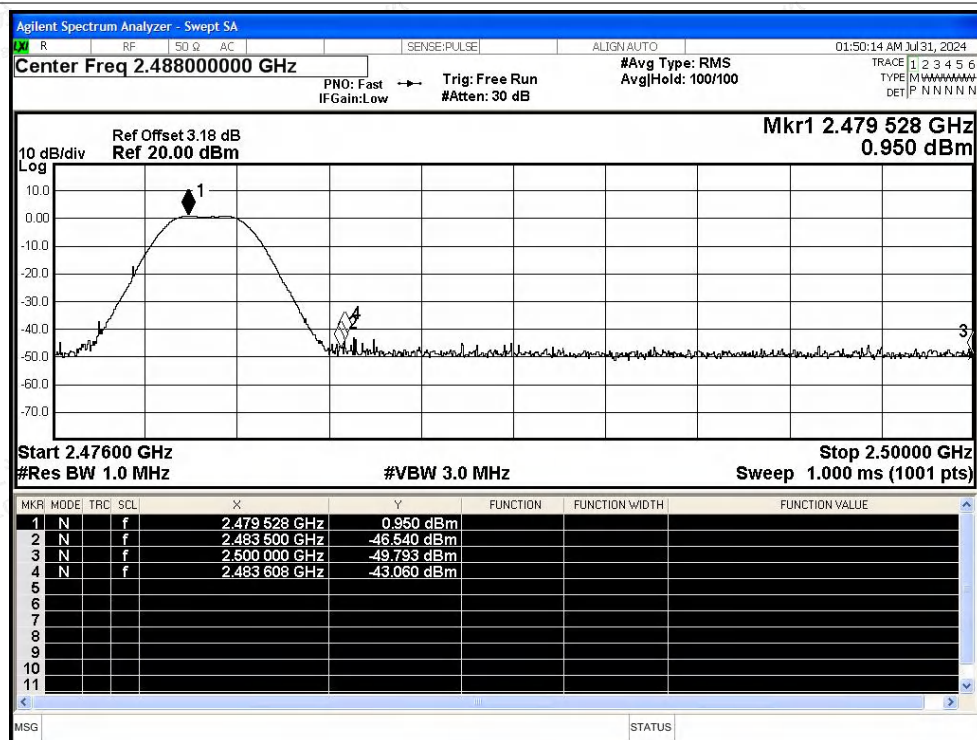
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Restrict Band NVNT BLE 2M 2480MHz Ant1 Peak



Restrict Band NVNT BLE 2M 2480MHz Ant1 Average

