



Appendix B

RF Test Data for BT LE (Conducted Measurement)

Product Name: Interactive Flat Panel Display/Interactive LED Panel/Touch Screen Monitor/Touch Screen/

Touch Monitor/Interactive LED

Test Model: L1R-148A

Environmental Conditions

Temperature:	23.5°C
Relative Humidity:	52.6%
ATM Pressure:	100.0 kPa
Test Engineer:	Can Kun
Supervised by:	Paddi Chen





B.1 -6dB Bandwidth

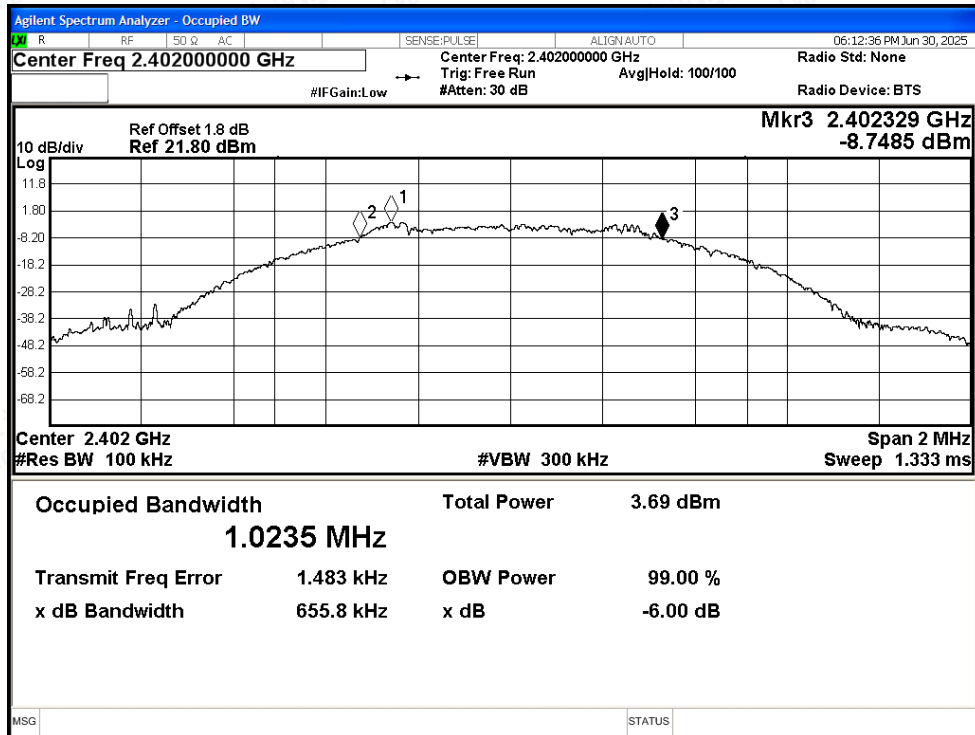
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	Ant1	0.656	≥ 0.5	Pass
NVNT	BLE 1M	2440	Ant1	0.656	≥ 0.5	Pass
NVNT	BLE 1M	2480	Ant1	0.661	≥ 0.5	Pass
NVNT	BLE 2M	2402	Ant1	1.172	≥ 0.5	Pass
NVNT	BLE 2M	2440	Ant1	1.136	≥ 0.5	Pass
NVNT	BLE 2M	2480	Ant1	1.167	≥ 0.5	Pass



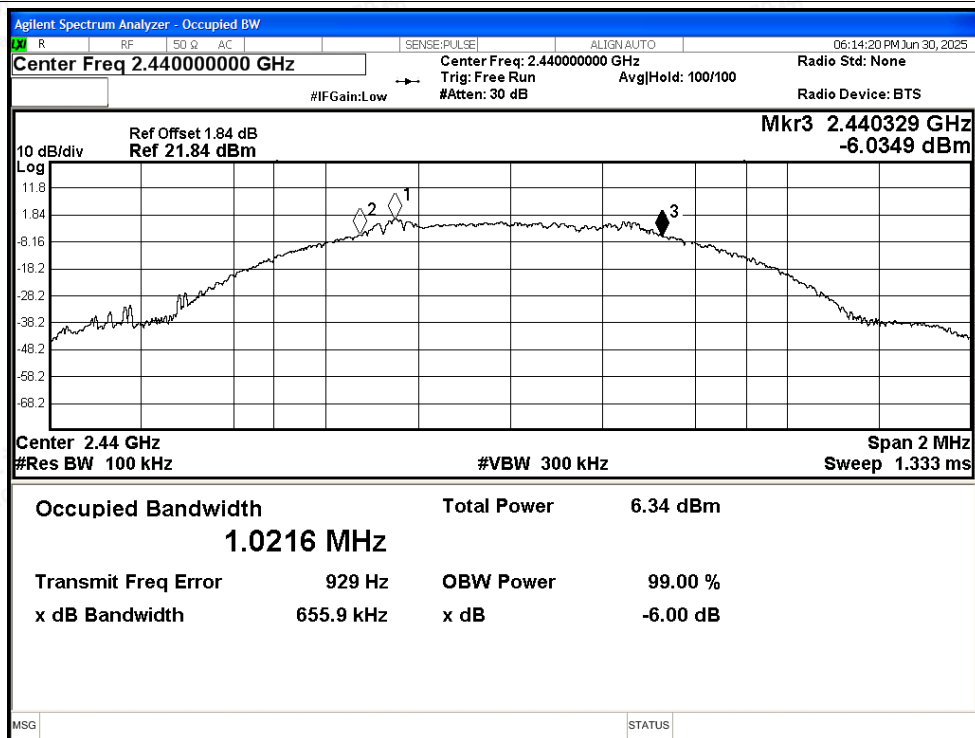


Test Graphs

-6dB Bandwidth NVNT BLE 1M 2402MHz Ant1



-6dB Bandwidth NVNT BLE 1M 2440MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

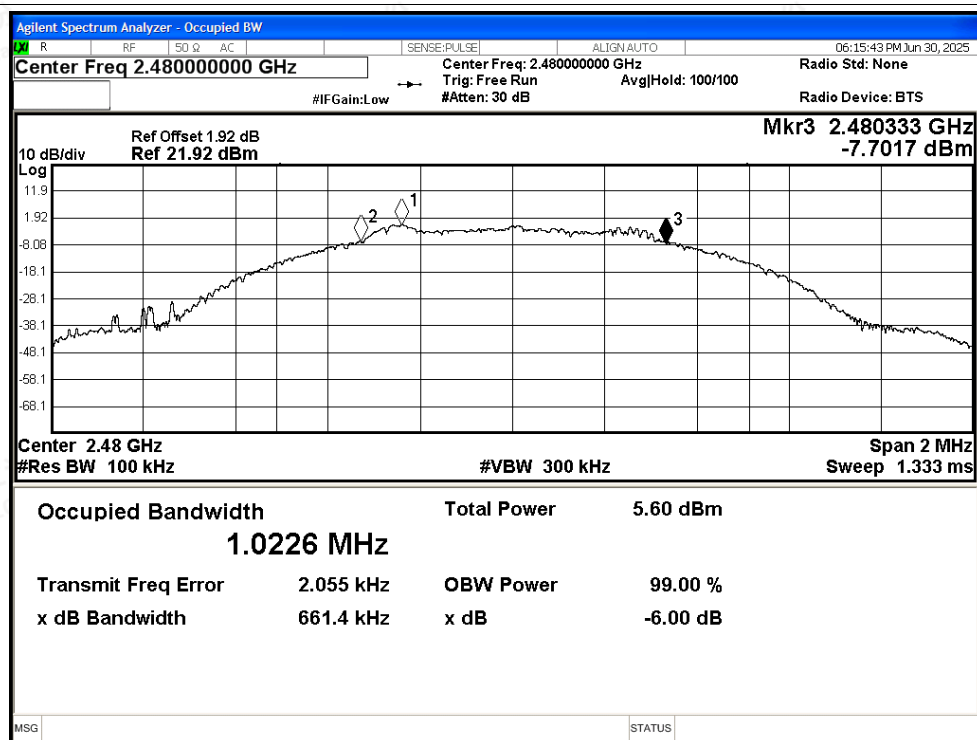
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

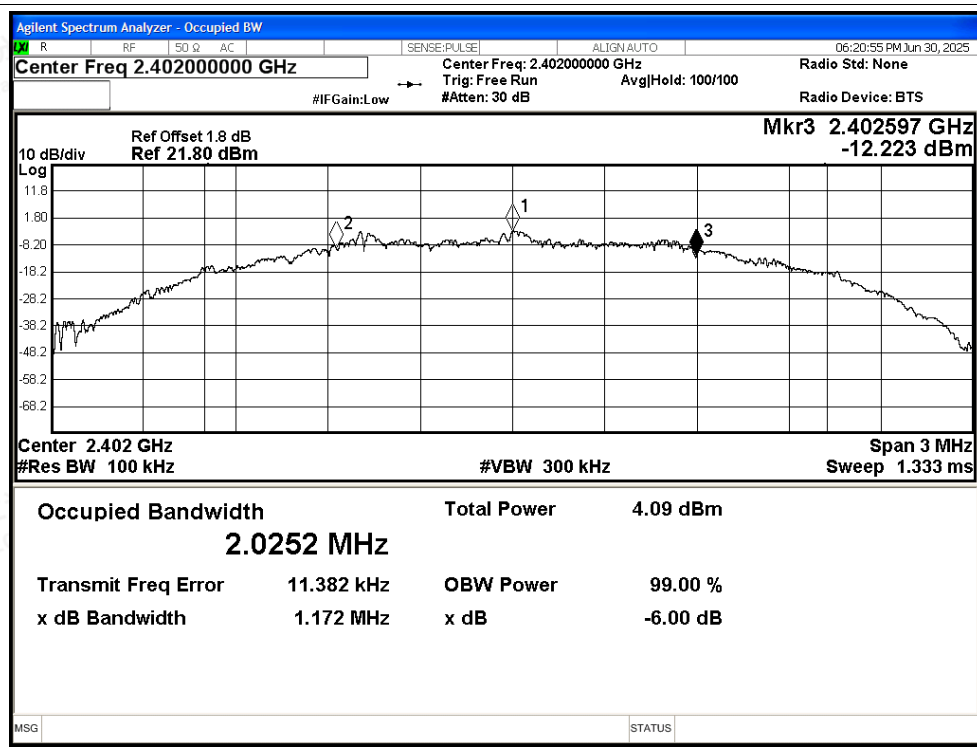
Scan code to check authenticity



-6dB Bandwidth NVNT BLE 1M 2480MHz Ant1



-6dB Bandwidth NVNT BLE 2M 2402MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

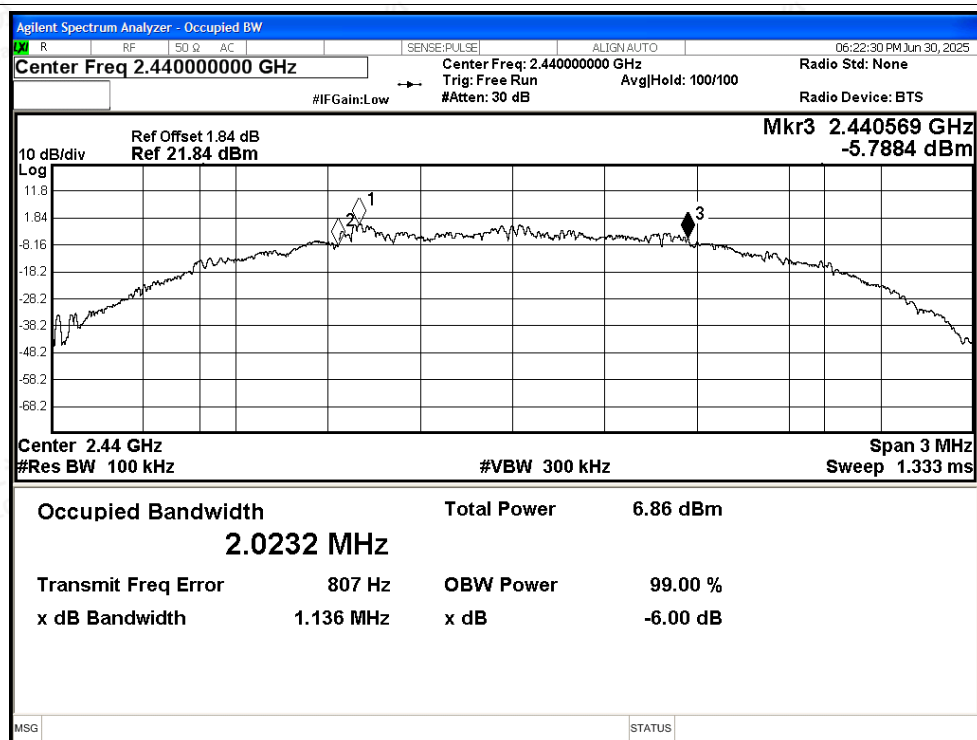
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

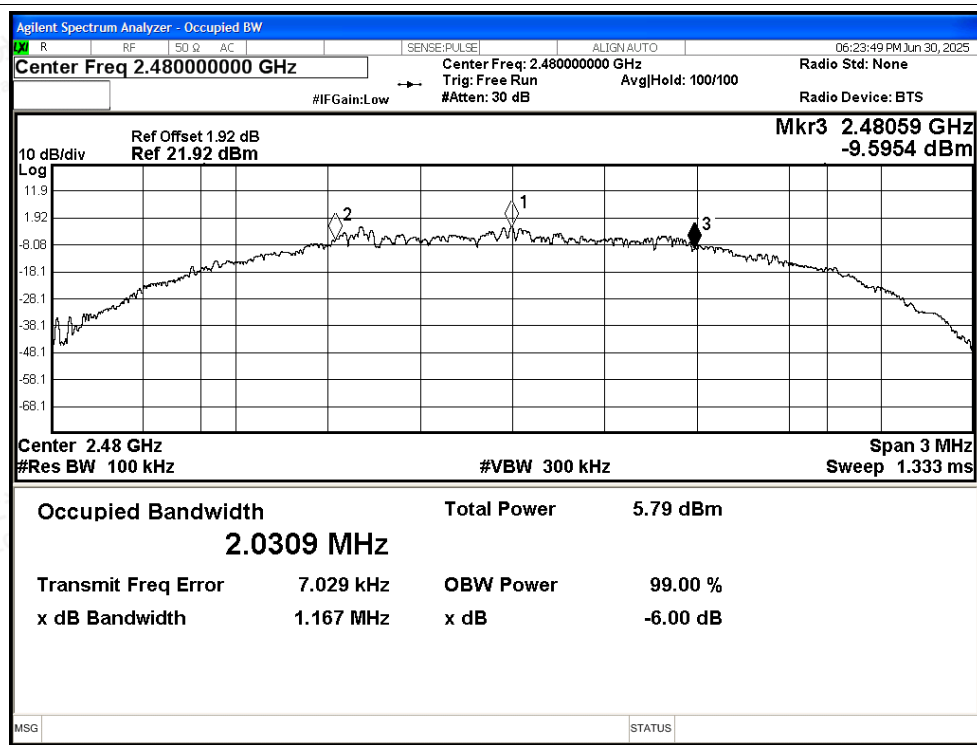
Scan code to check authenticity



-6dB Bandwidth NVNT BLE 2M 2440MHz Ant1



-6dB Bandwidth NVNT BLE 2M 2480MHz Ant1



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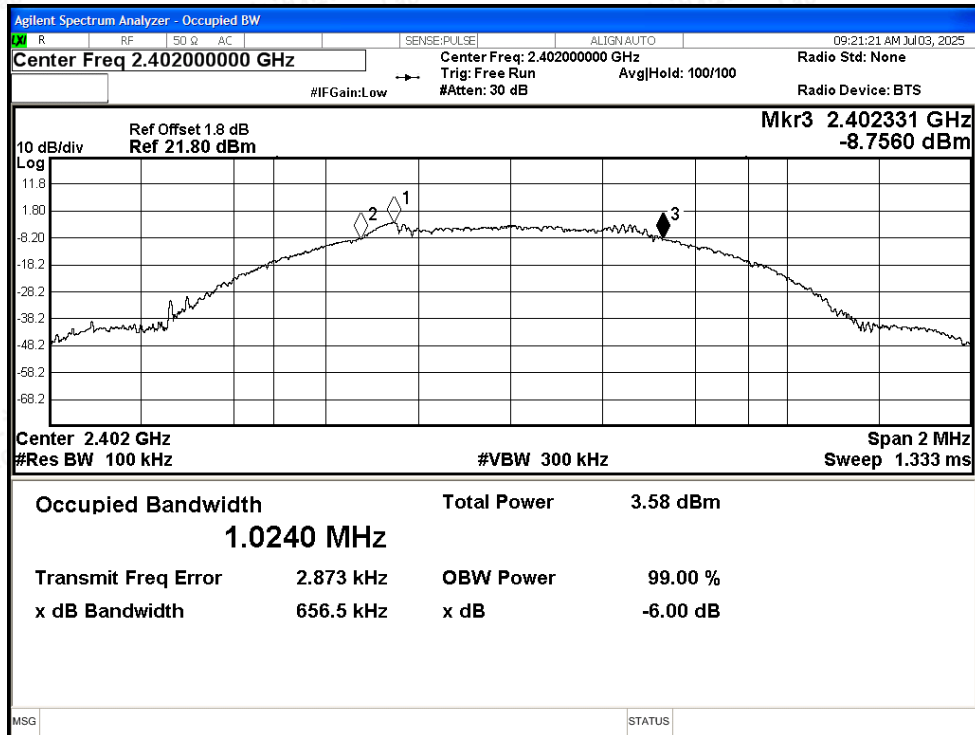
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	Ant4	0.656	≥ 0.5	Pass
NVNT	BLE 1M	2440	Ant4	0.661	≥ 0.5	Pass
NVNT	BLE 1M	2480	Ant4	0.665	≥ 0.5	Pass
NVNT	BLE 2M	2402	Ant4	1.167	≥ 0.5	Pass
NVNT	BLE 2M	2440	Ant4	1.173	≥ 0.5	Pass
NVNT	BLE 2M	2480	Ant4	1.237	≥ 0.5	Pass



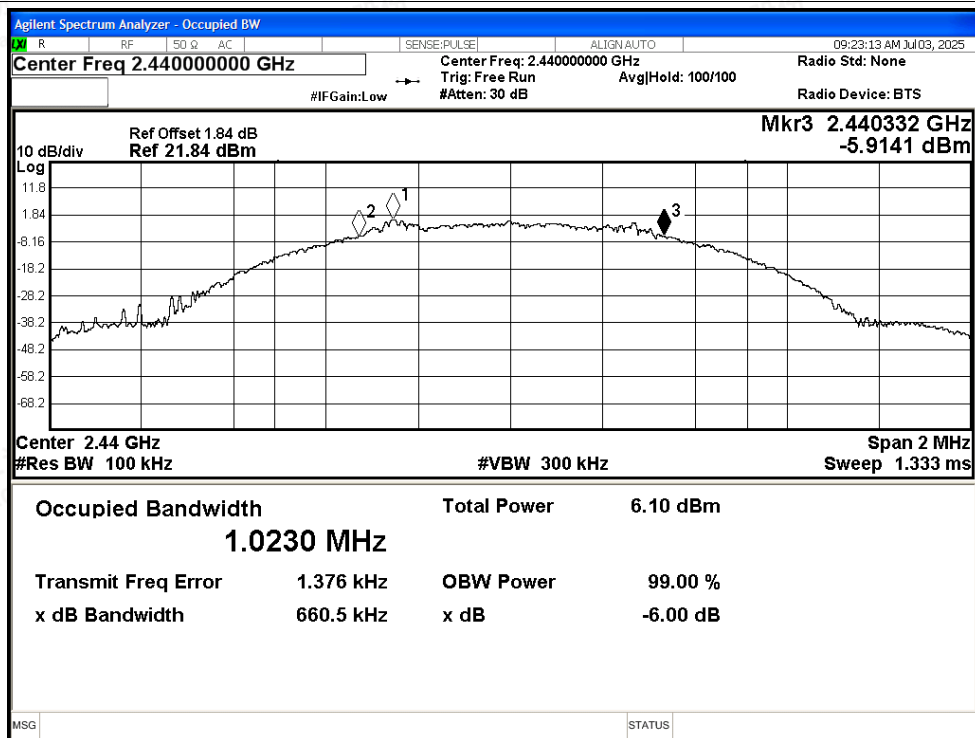


Test Graphs

-6dB Bandwidth NVNT BLE 1M 2402MHz Ant4



-6dB Bandwidth NVNT BLE 1M 2440MHz Ant4



Shenzhen LCS Compliance Testing Laboratory Ltd.

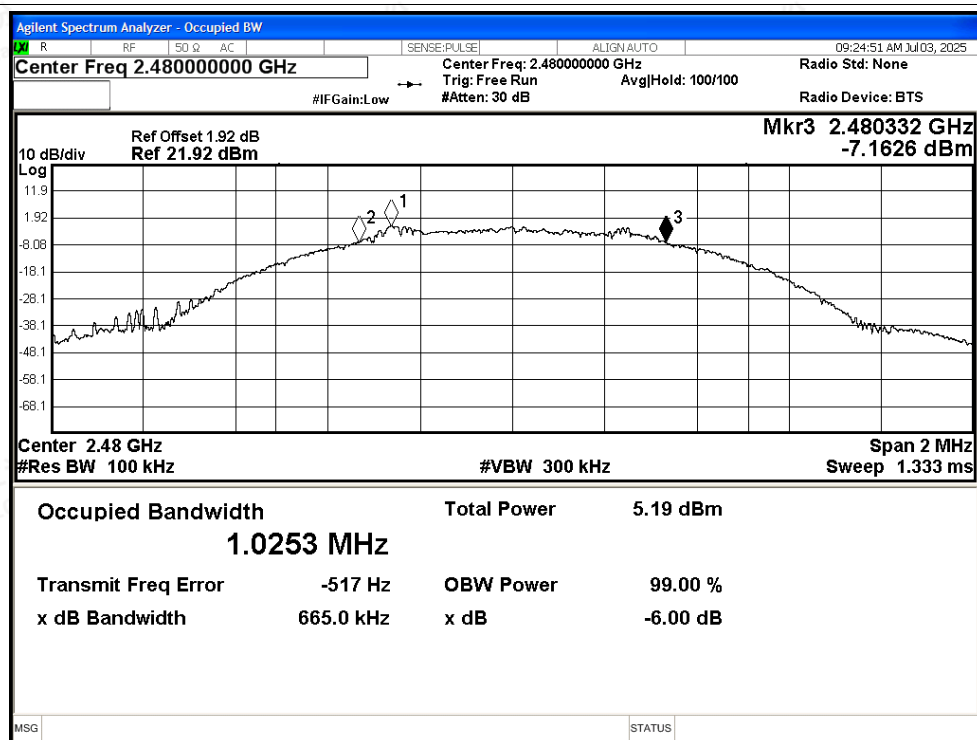
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

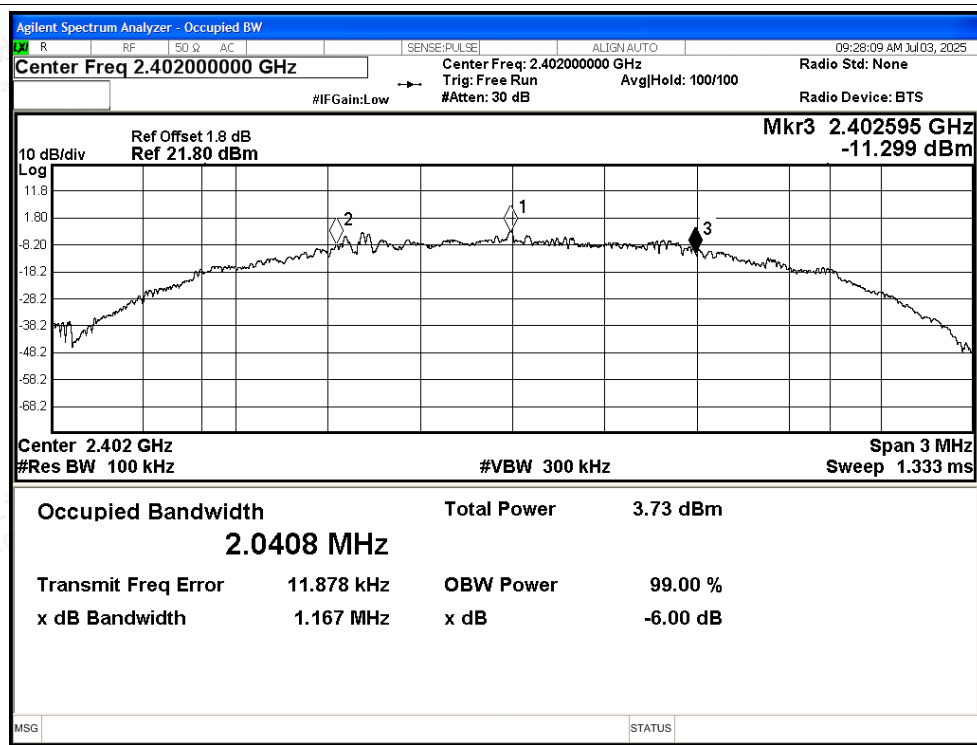
Scan code to check authenticity



-6dB Bandwidth NVNT BLE 1M 2480MHz Ant4



-6dB Bandwidth NVNT BLE 2M 2402MHz Ant4



Shenzhen LCS Compliance Testing Laboratory Ltd.

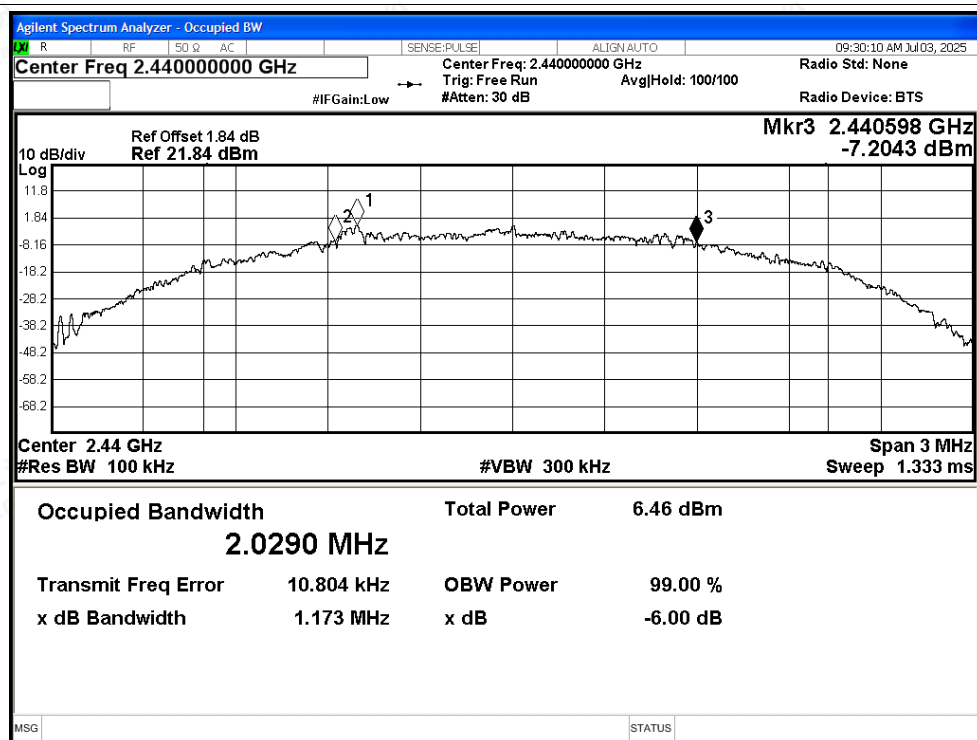
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

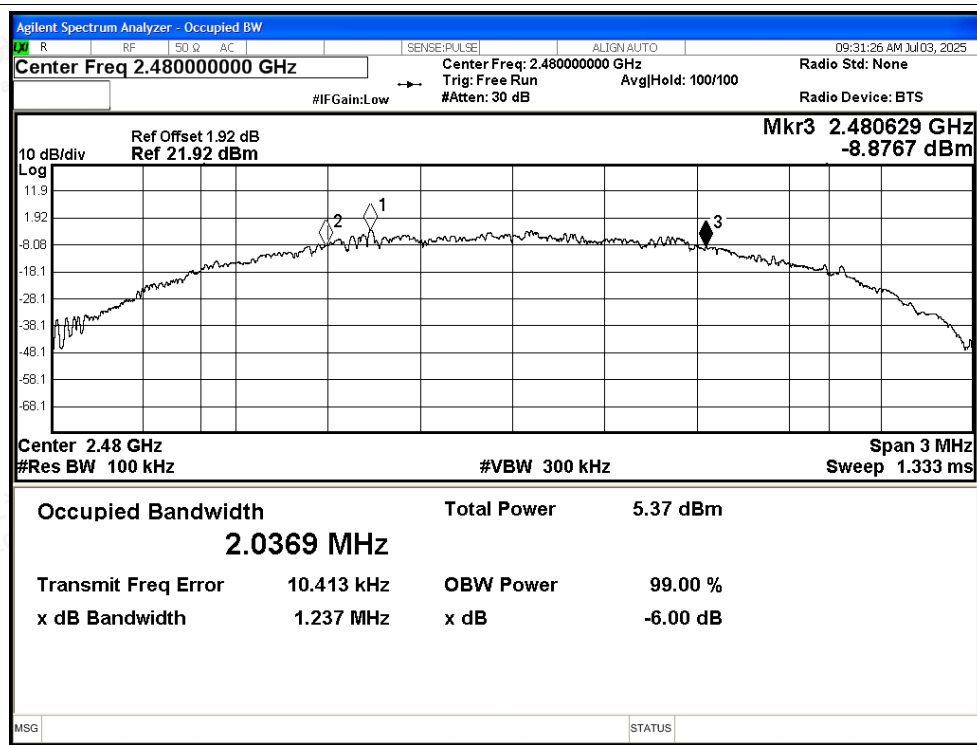
Scan code to check authenticity



-6dB Bandwidth NVNT BLE 2M 2440MHz Ant4



-6dB Bandwidth NVNT BLE 2M 2480MHz Ant4



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B.2 Maximum Peak Conducted Output Power

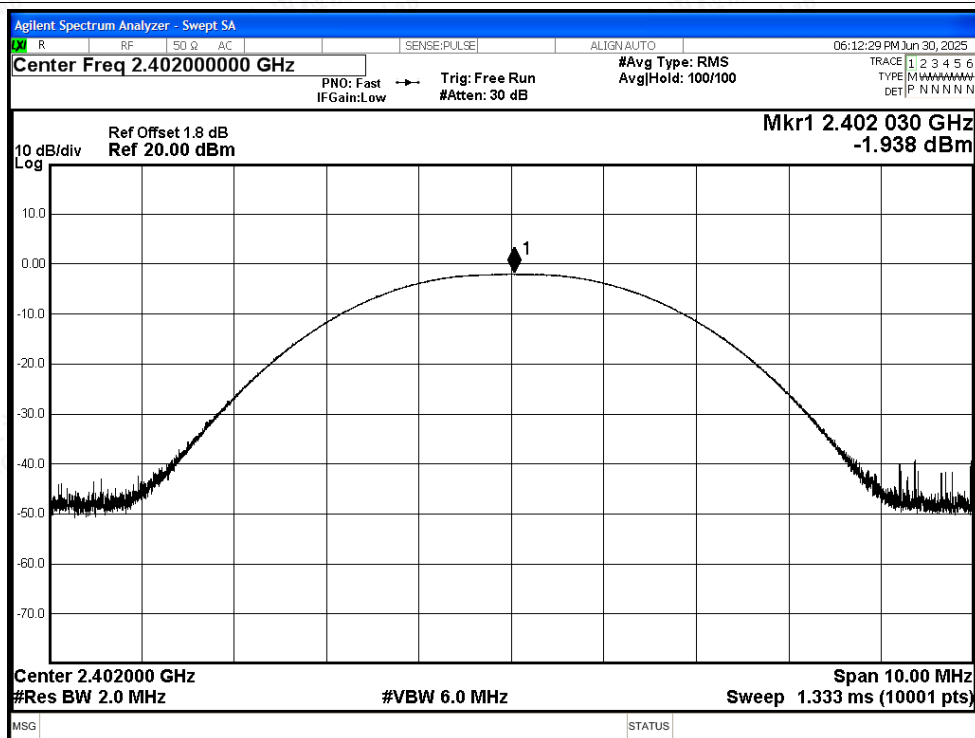
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	-1.94	30	Pass
NVNT	BLE 1M	2440	Ant1	0.73	30	Pass
NVNT	BLE 1M	2480	Ant1	-0.15	30	Pass
NVNT	BLE 2M	2402	Ant1	-2.02	30	Pass
NVNT	BLE 2M	2440	Ant1	0.56	30	Pass
NVNT	BLE 2M	2480	Ant1	-0.3	30	Pass



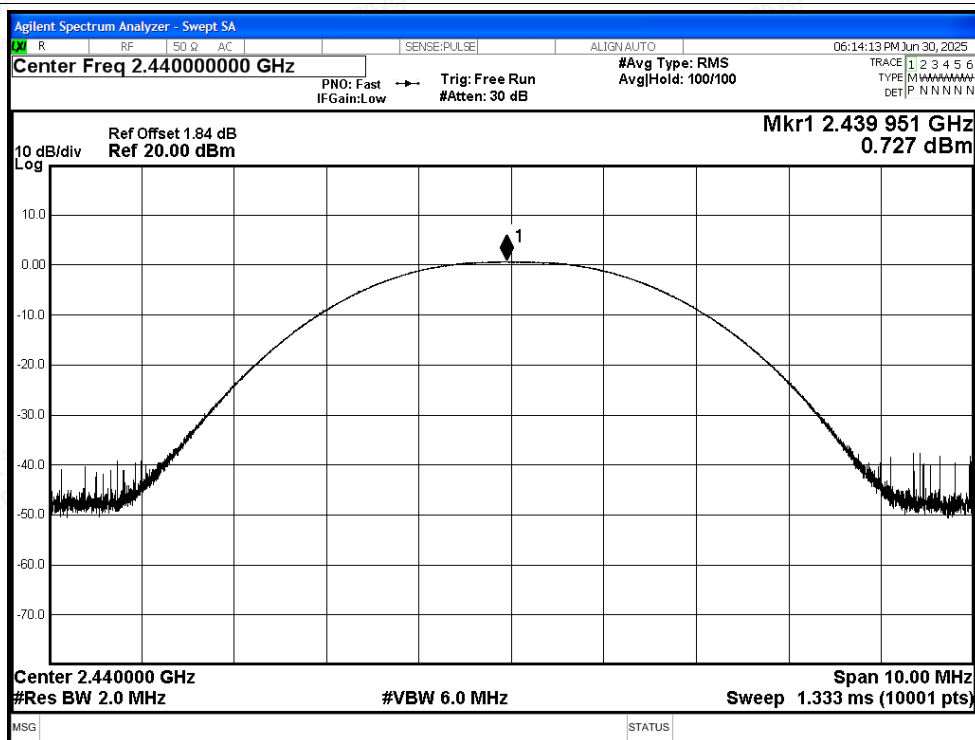


Test Graphs

Power NVNT BLE 1M 2402MHz Ant1



Power NVNT BLE 1M 2440MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

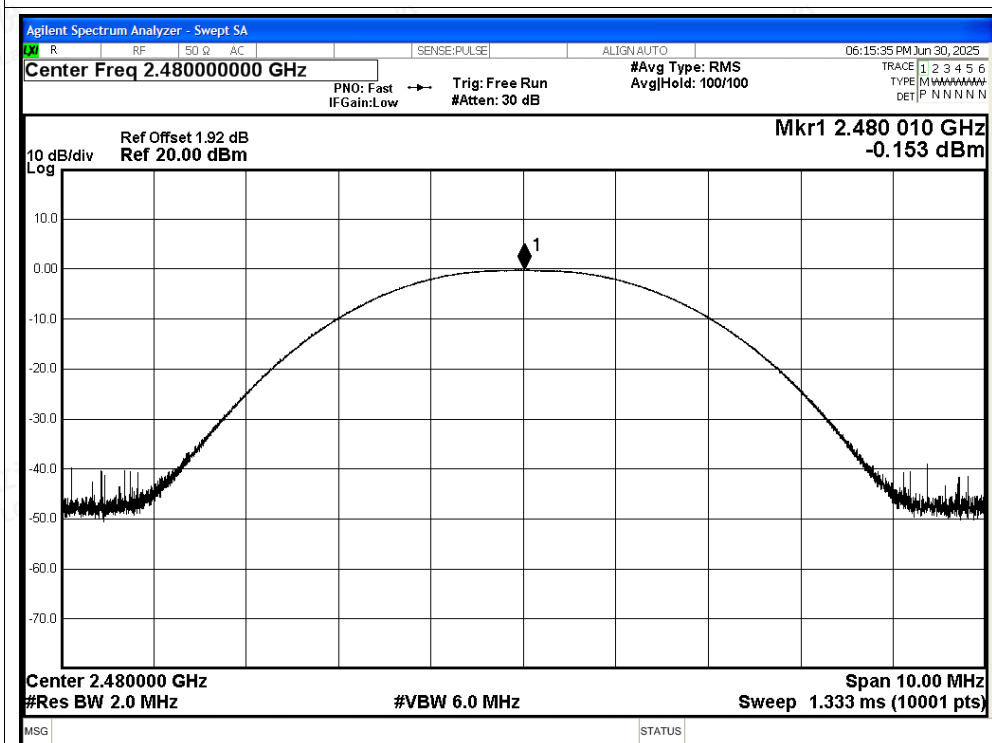
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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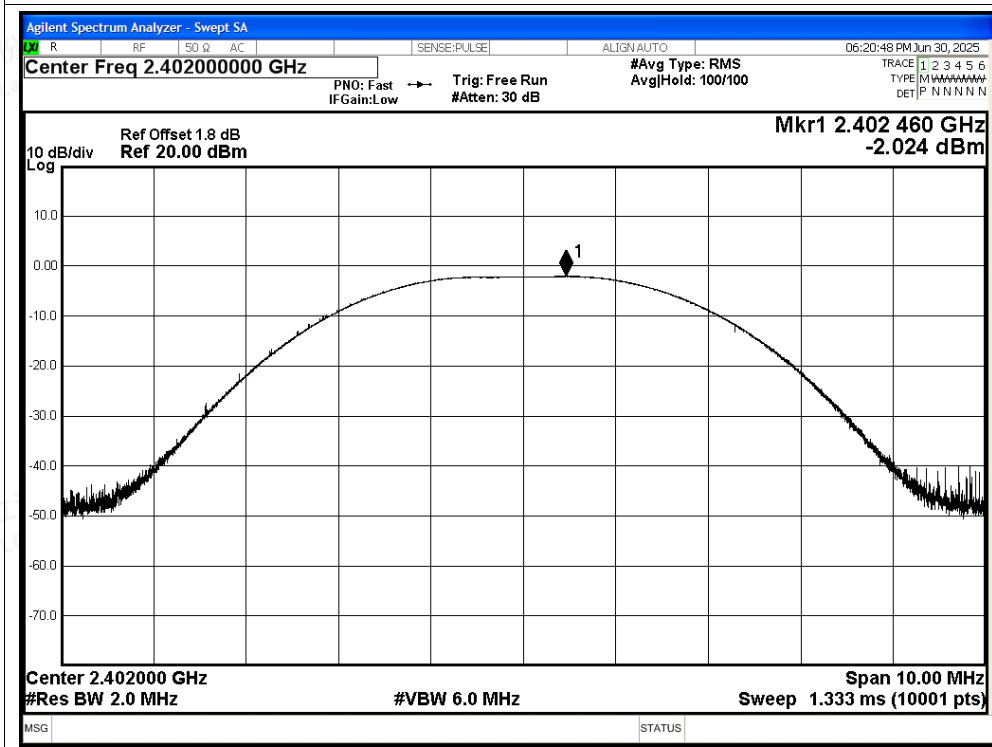
Scan code to check authenticity



Power NVNT BLE 1M 2480MHz Ant1



Power NVNT BLE 2M 2402MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

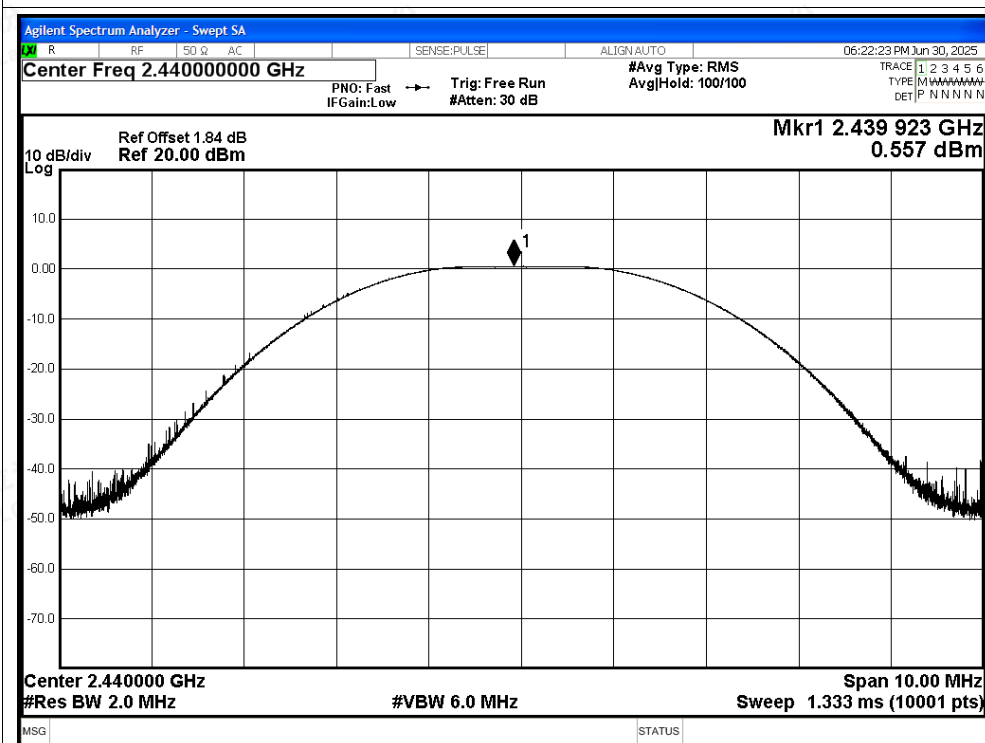
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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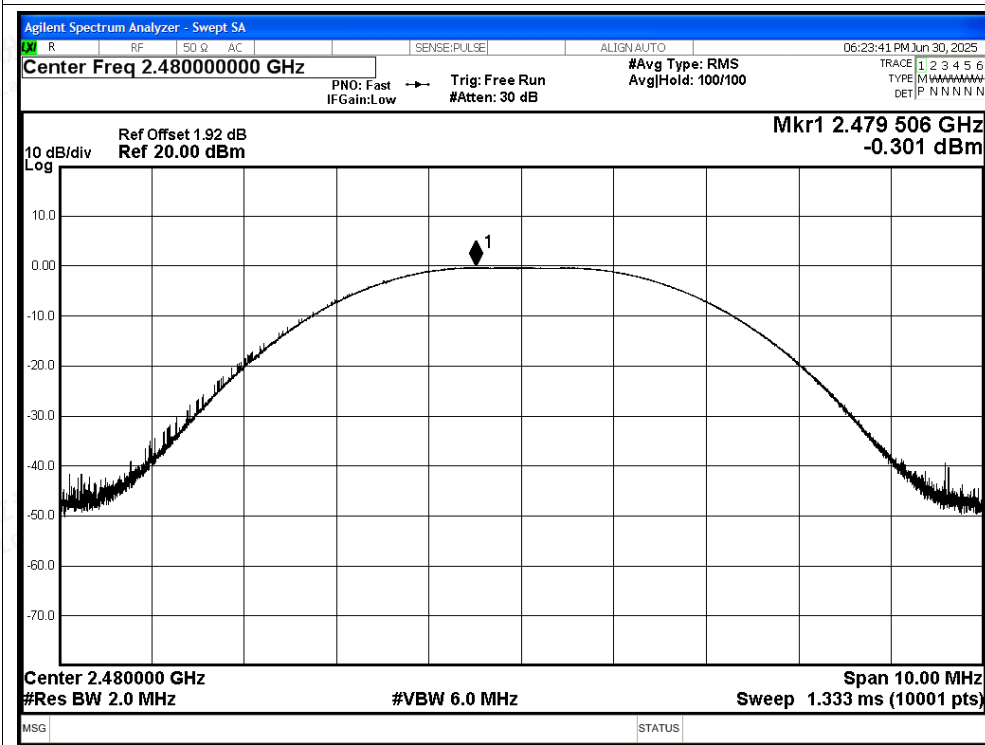
Scan code to check authenticity



Power NVNT BLE 2M 2440MHz Ant1



Power NVNT BLE 2M 2480MHz Ant1



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Scan code to check authenticity



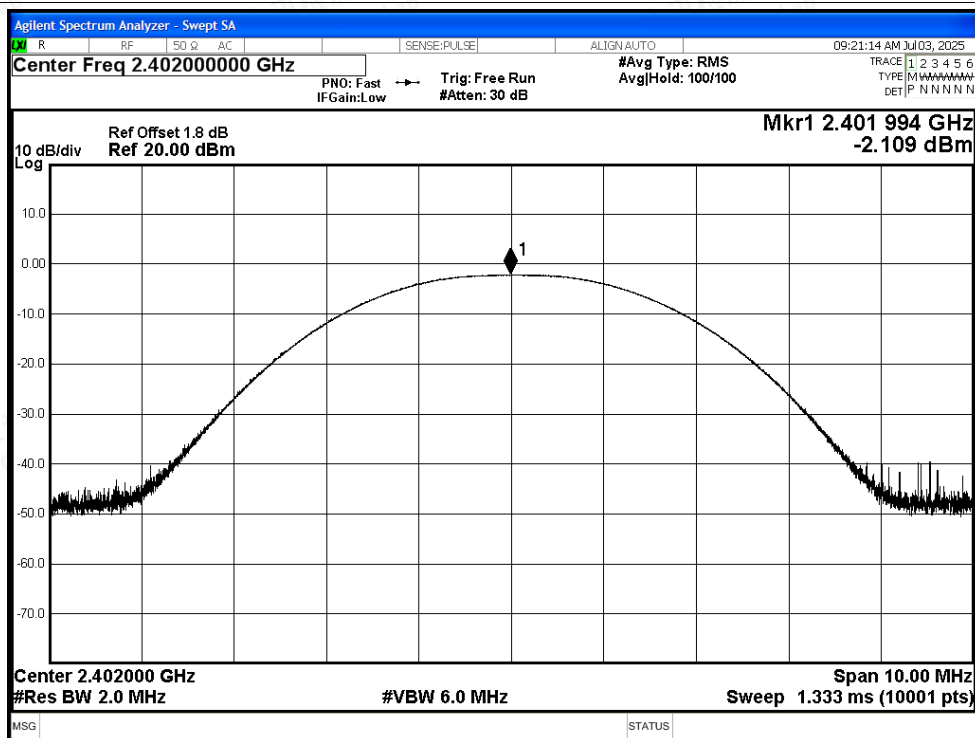
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant4	-2.11	30	Pass
NVNT	BLE 1M	2440	Ant4	0.54	30	Pass
NVNT	BLE 1M	2480	Ant4	-0.39	30	Pass
NVNT	BLE 2M	2402	Ant4	-2.24	30	Pass
NVNT	BLE 2M	2440	Ant4	0.3	30	Pass
NVNT	BLE 2M	2480	Ant4	-0.56	30	Pass



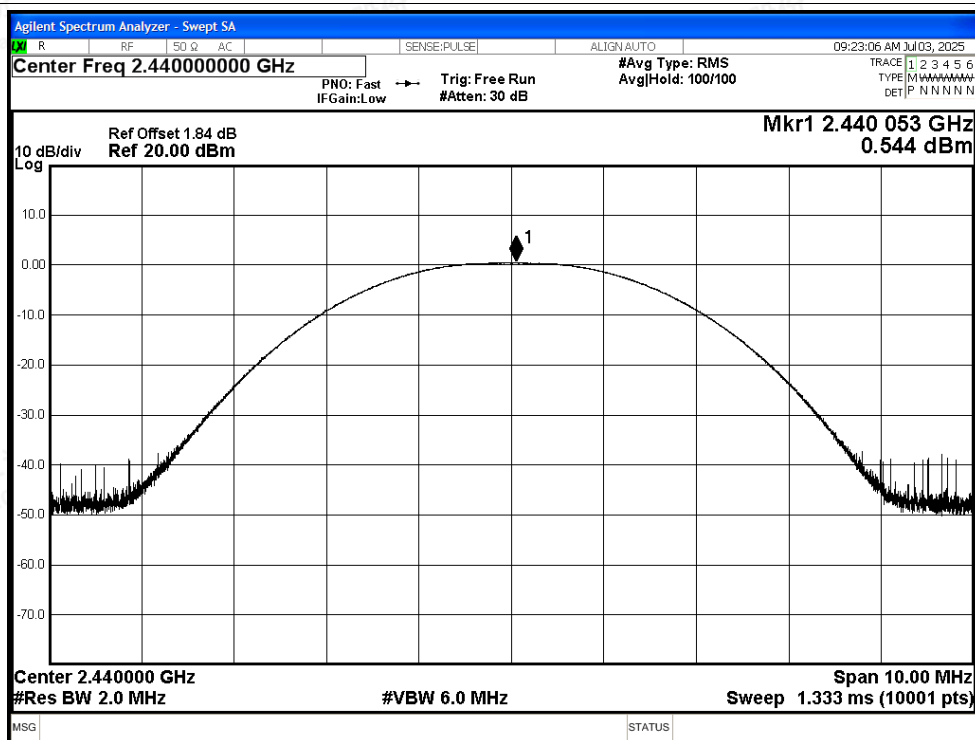


Test Graphs

Power NVNT BLE 1M 2402MHz Ant4



Power NVNT BLE 1M 2440MHz Ant4



Shenzhen LCS Compliance Testing Laboratory Ltd.

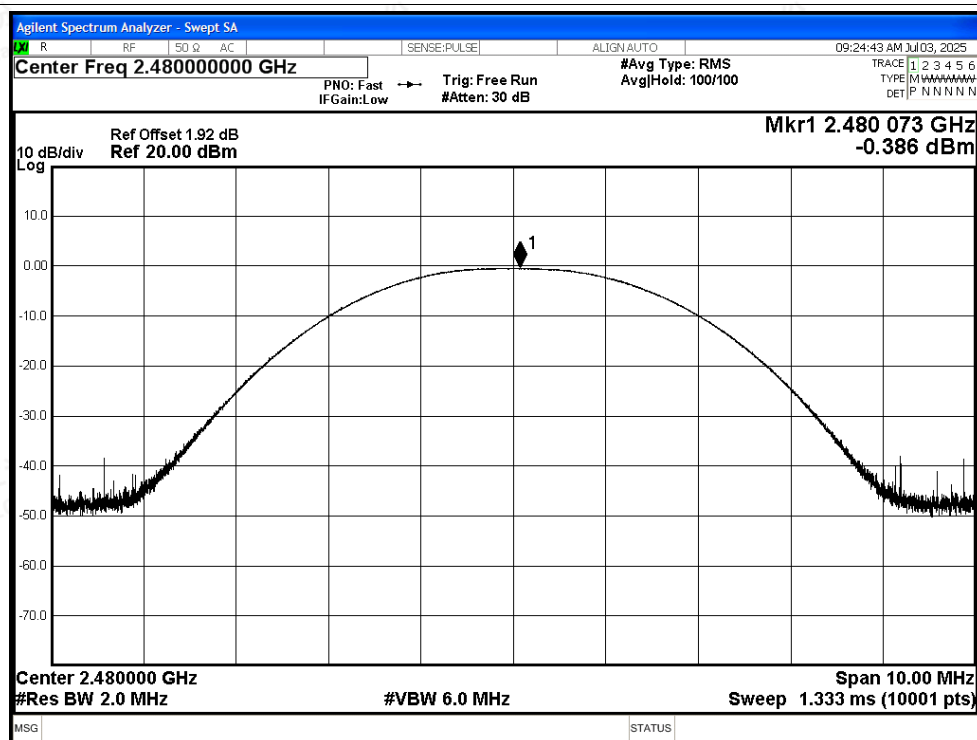
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

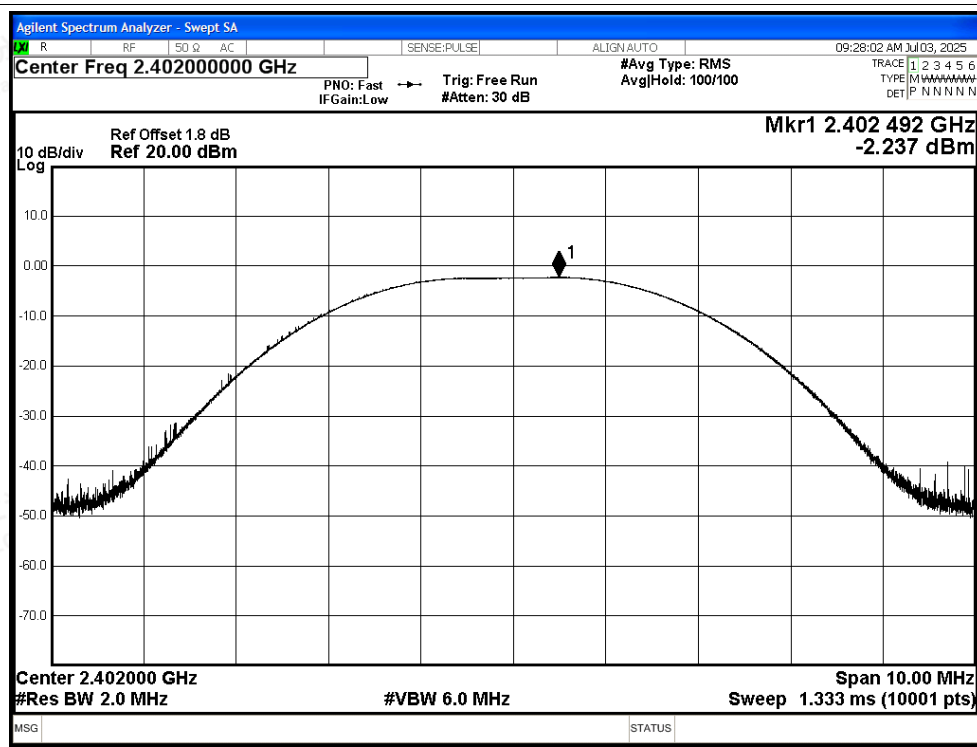
Scan code to check authenticity



Power NVNT BLE 1M 2480MHz Ant4



Power NVNT BLE 2M 2402MHz Ant4



Shenzhen LCS Compliance Testing Laboratory Ltd.

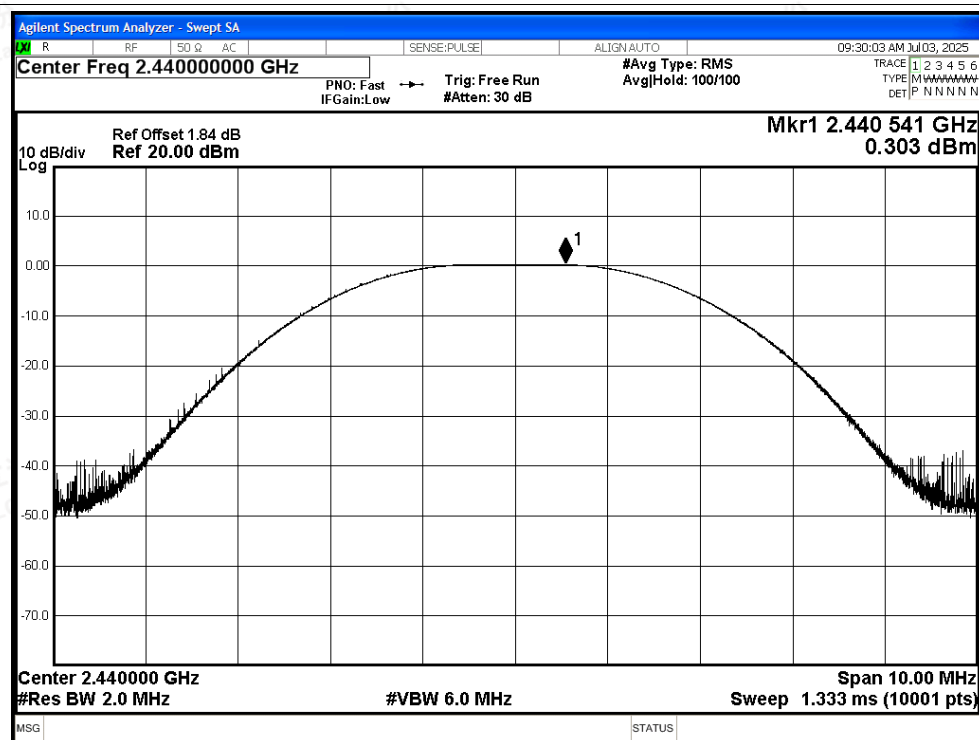
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

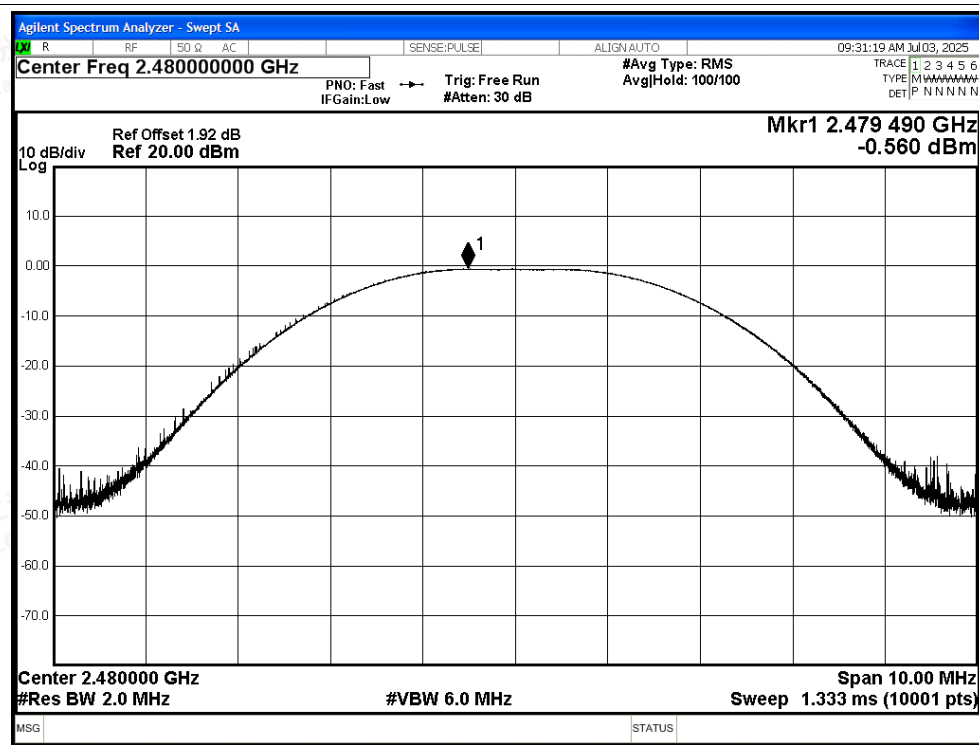
Scan code to check authenticity



Power NVNT BLE 2M 2440MHz Ant4



Power NVNT BLE 2M 2480MHz Ant4



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B.3 Maximum Power Spectral Density Level

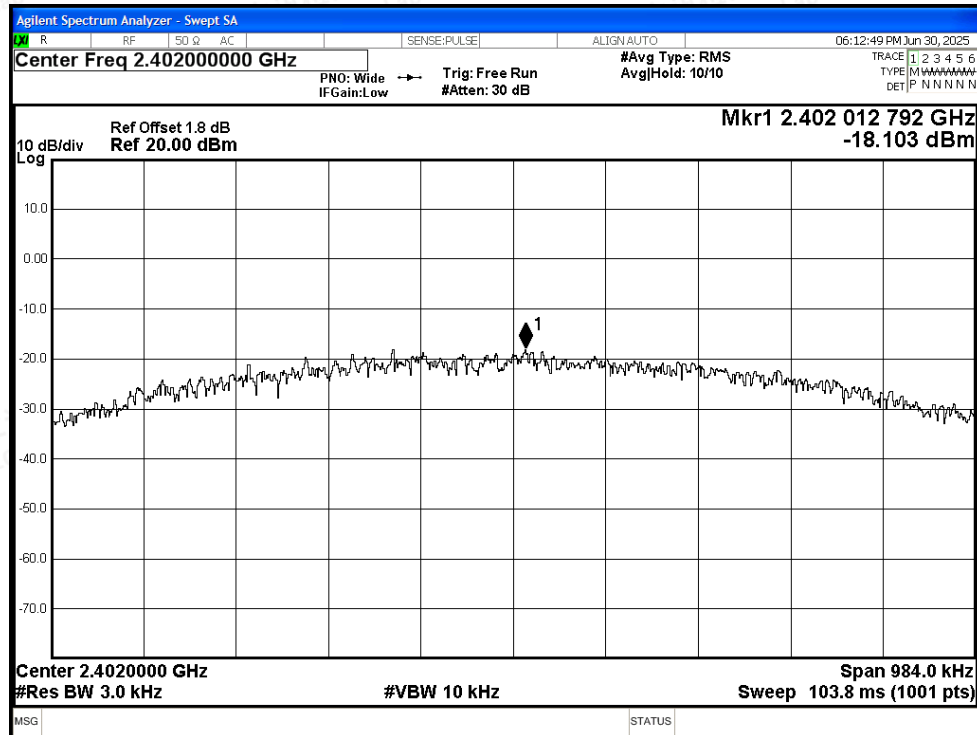
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	BLE 1M	2402	Ant1	-18.1	8	Pass
NVNT	BLE 1M	2440	Ant1	-15.55	8	Pass
NVNT	BLE 1M	2480	Ant1	-16.52	8	Pass
NVNT	BLE 2M	2402	Ant1	-21.26	8	Pass
NVNT	BLE 2M	2440	Ant1	-18.59	8	Pass
NVNT	BLE 2M	2480	Ant1	-19.48	8	Pass



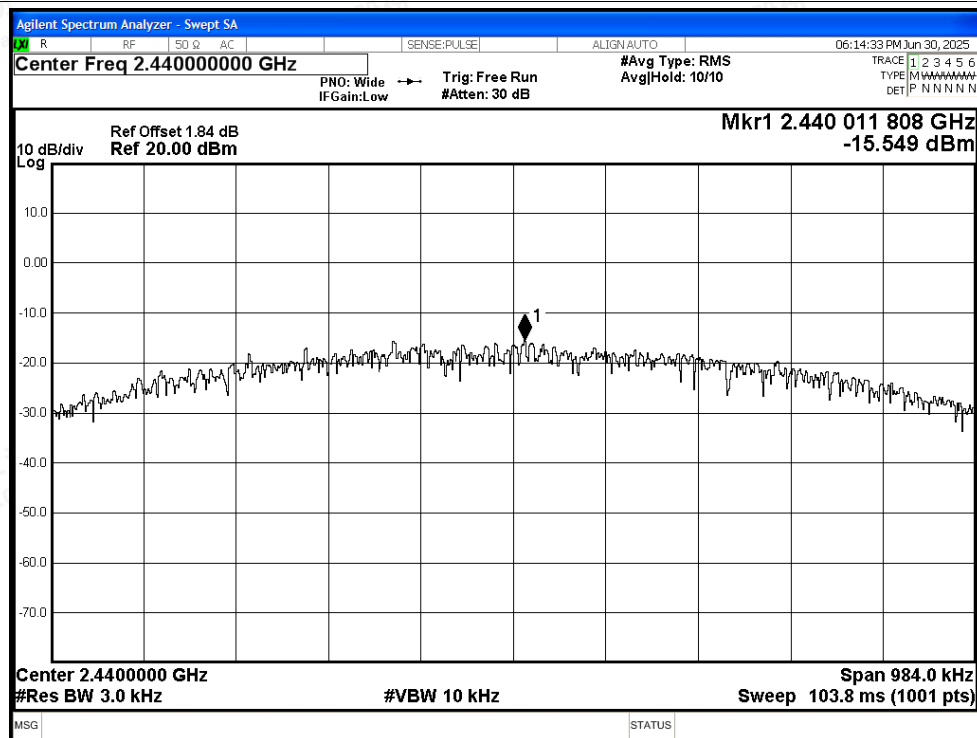


Test Graphs

PSD NVNT BLE 1M 2402MHz Ant1



PSD NVNT BLE 1M 2440MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

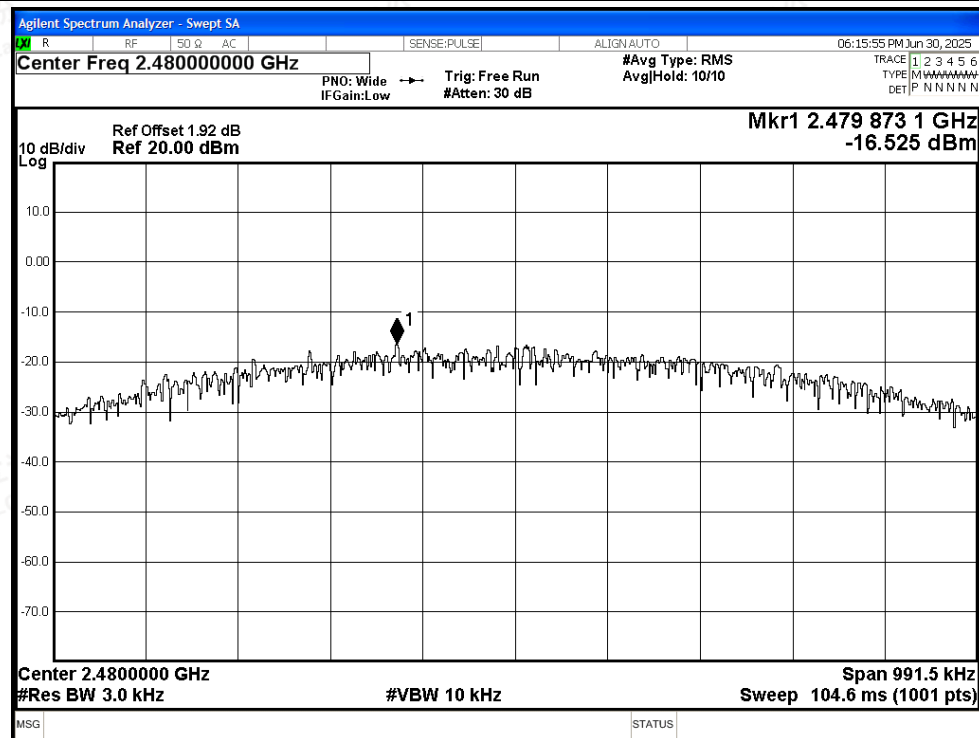
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

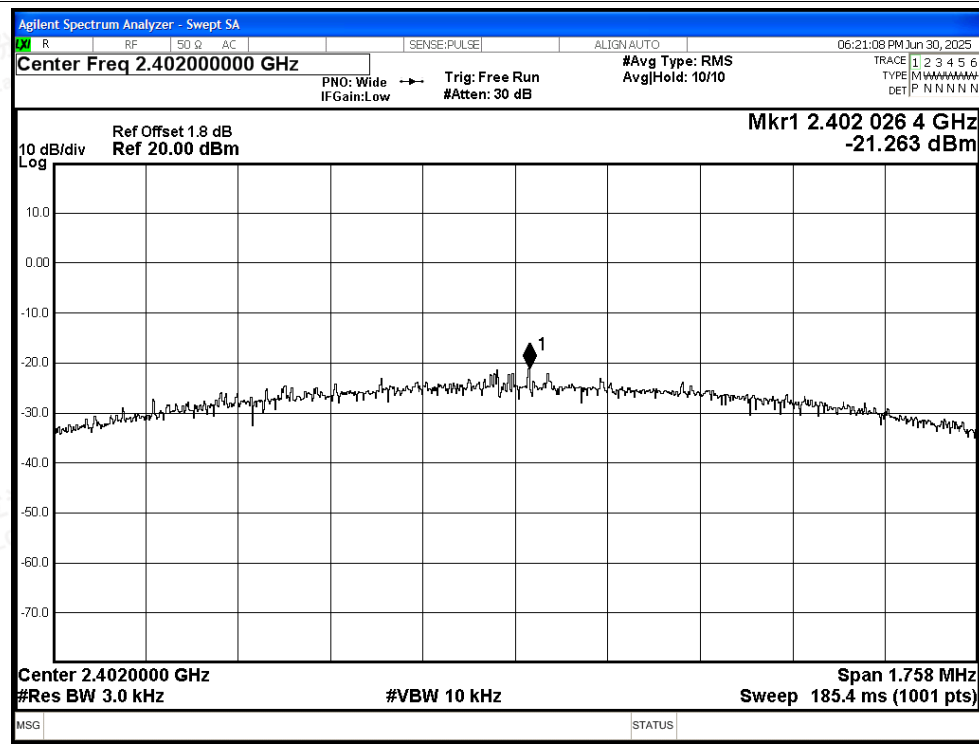
Scan code to check authenticity



PSD NVNT BLE 1M 2480MHz Ant1



PSD NVNT BLE 2M 2402MHz Ant1



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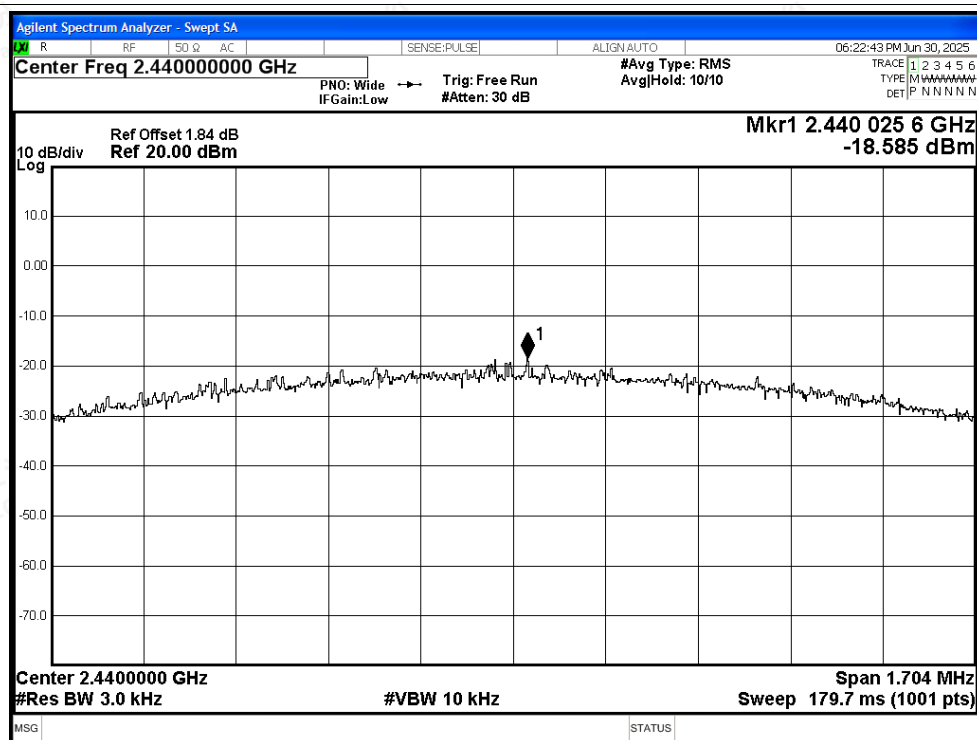
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

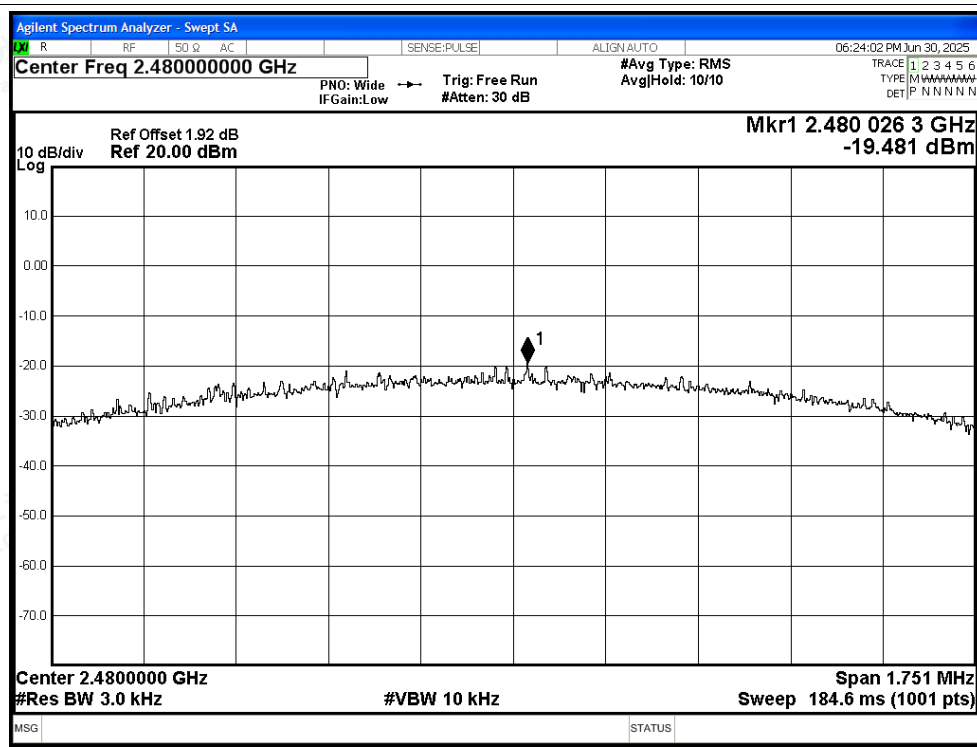
Scan code to check authenticity



PSD NVNT BLE 2M 2440MHz Ant1



PSD NVNT BLE 2M 2480MHz Ant1



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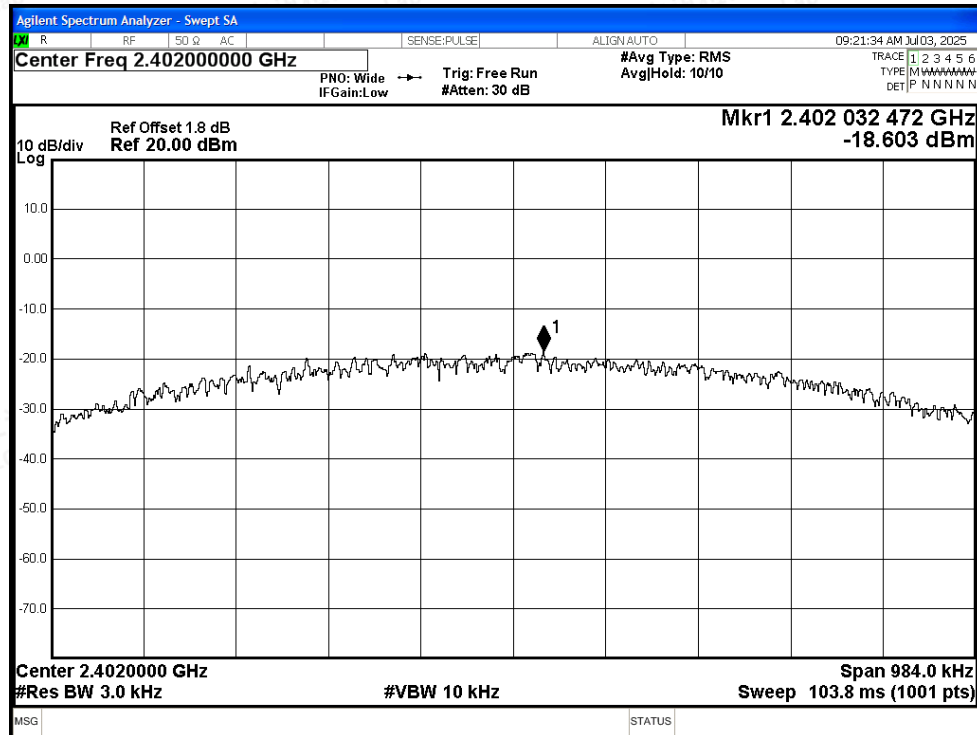
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	BLE 1M	2402	Ant4	-18.6	8	Pass
NVNT	BLE 1M	2440	Ant4	-15.75	8	Pass
NVNT	BLE 1M	2480	Ant4	-16.81	8	Pass
NVNT	BLE 2M	2402	Ant4	-21.72	8	Pass
NVNT	BLE 2M	2440	Ant4	-19.21	8	Pass
NVNT	BLE 2M	2480	Ant4	-20.61	8	Pass



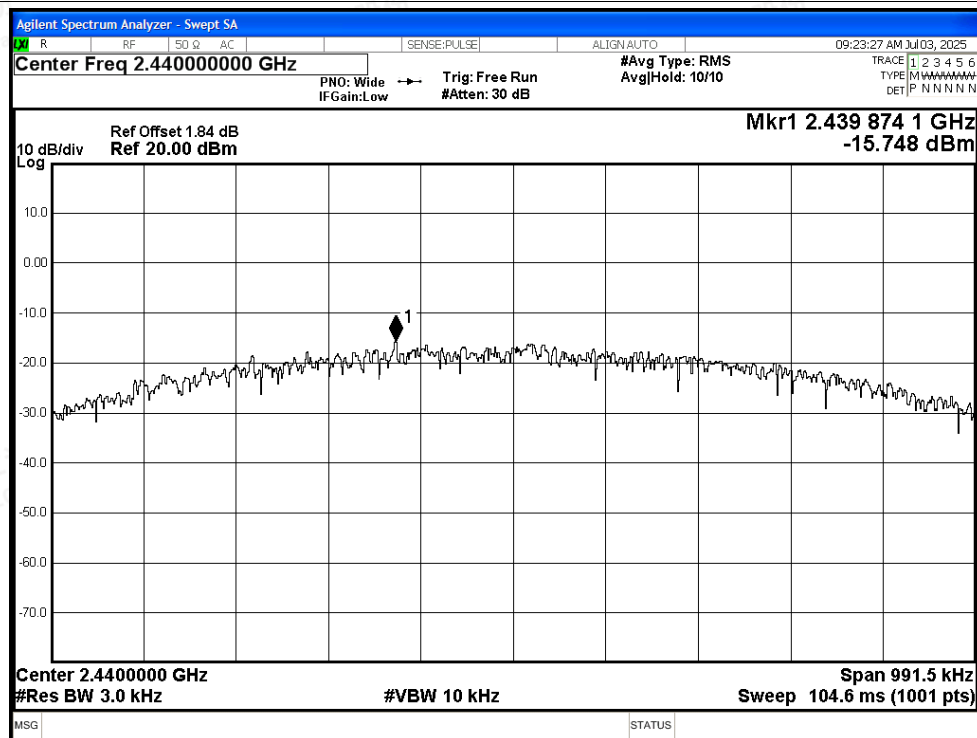


Test Graphs

PSD NVNT BLE 1M 2402MHz Ant4



PSD NVNT BLE 1M 2440MHz Ant4



Shenzhen LCS Compliance Testing Laboratory Ltd.

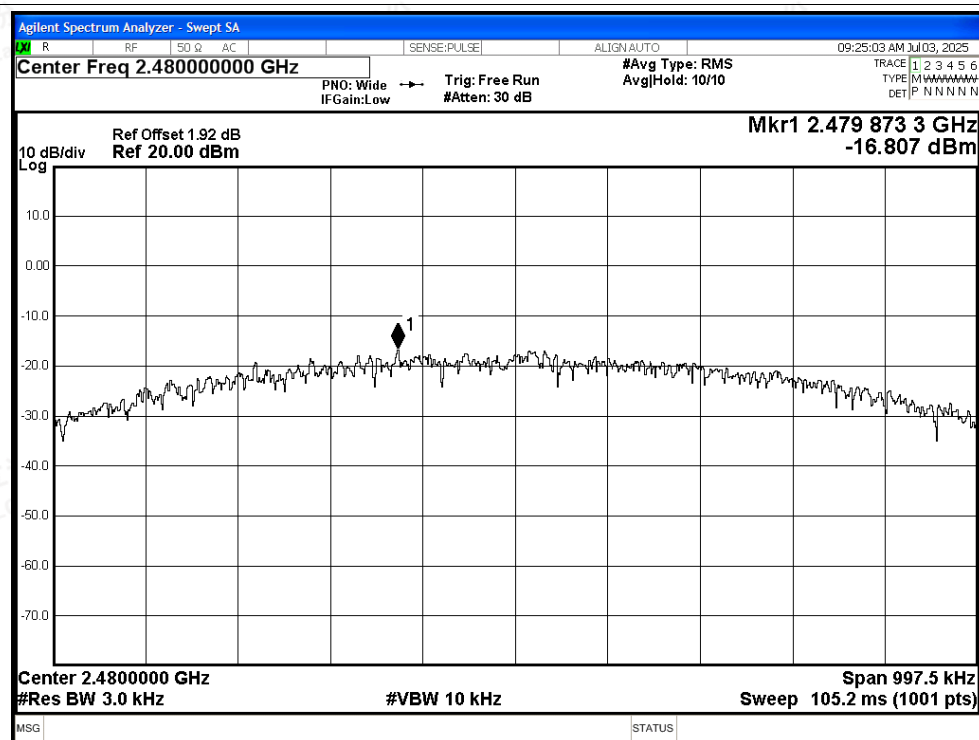
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

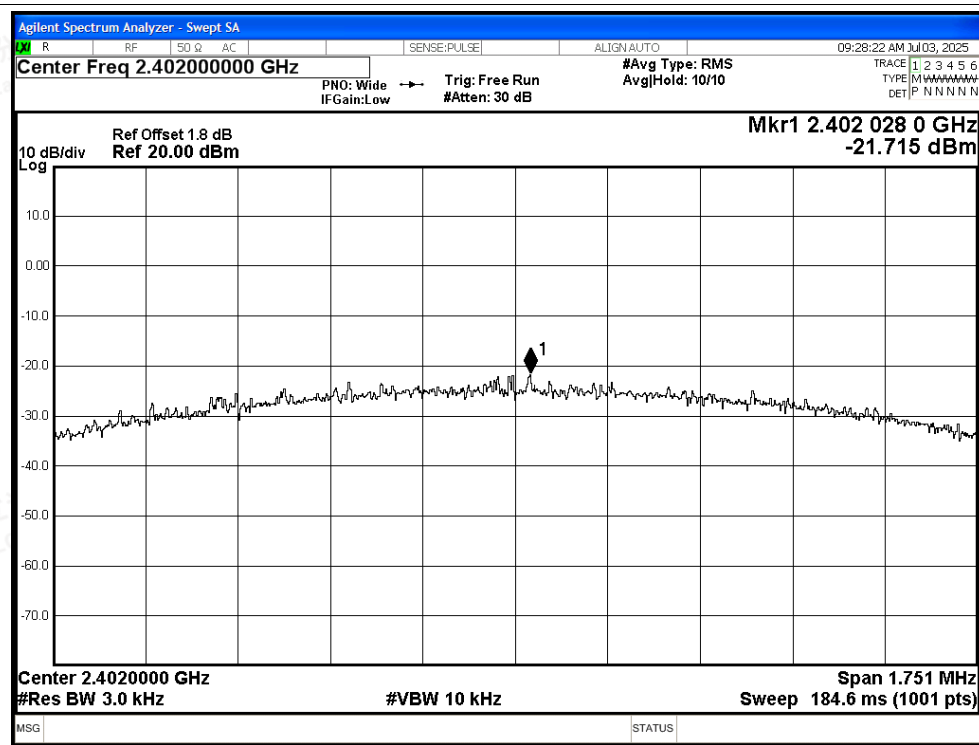
Scan code to check authenticity



PSD NVNT BLE 1M 2480MHz Ant4



PSD NVNT BLE 2M 2402MHz Ant4



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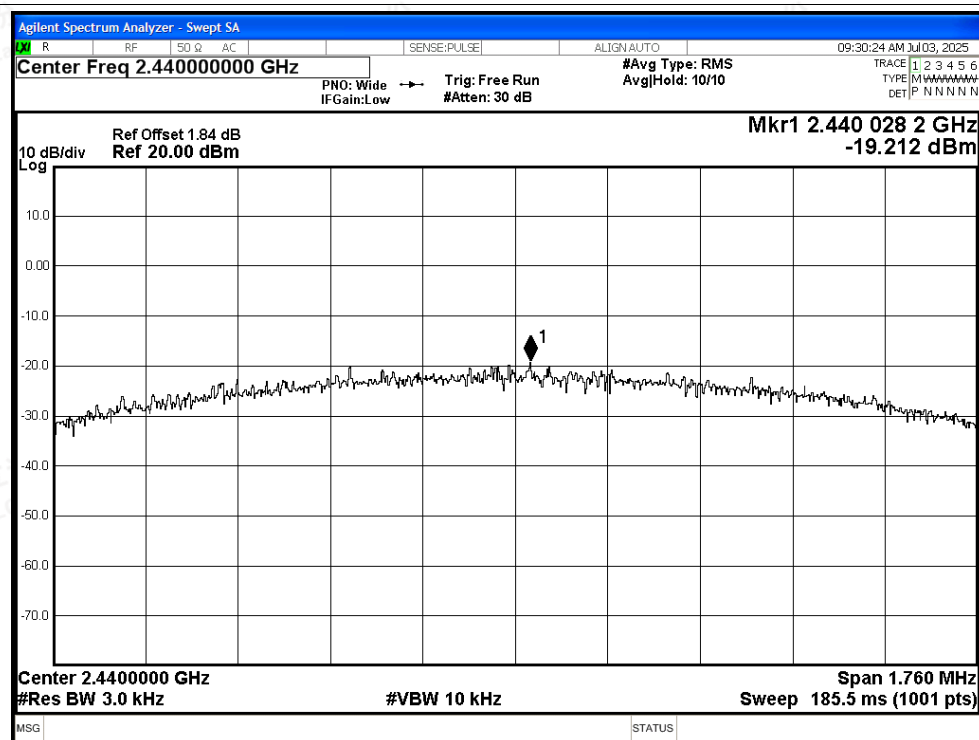
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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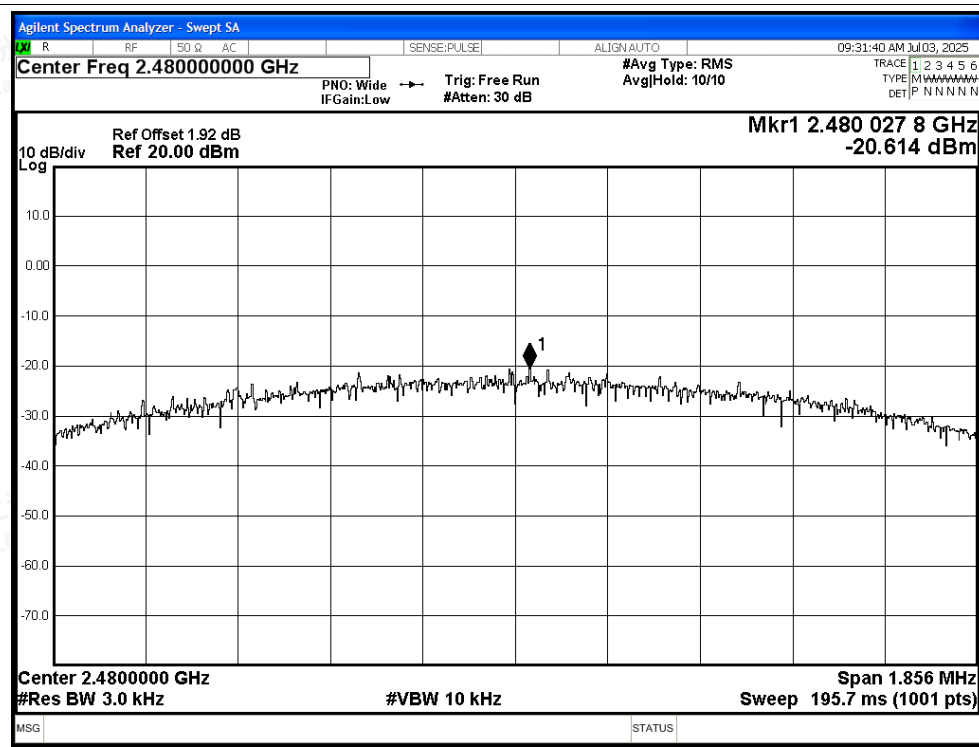
Scan code to check authenticity



PSD NVNT BLE 2M 2440MHz Ant4



PSD NVNT BLE 2M 2480MHz Ant4



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B.4 Band Edge

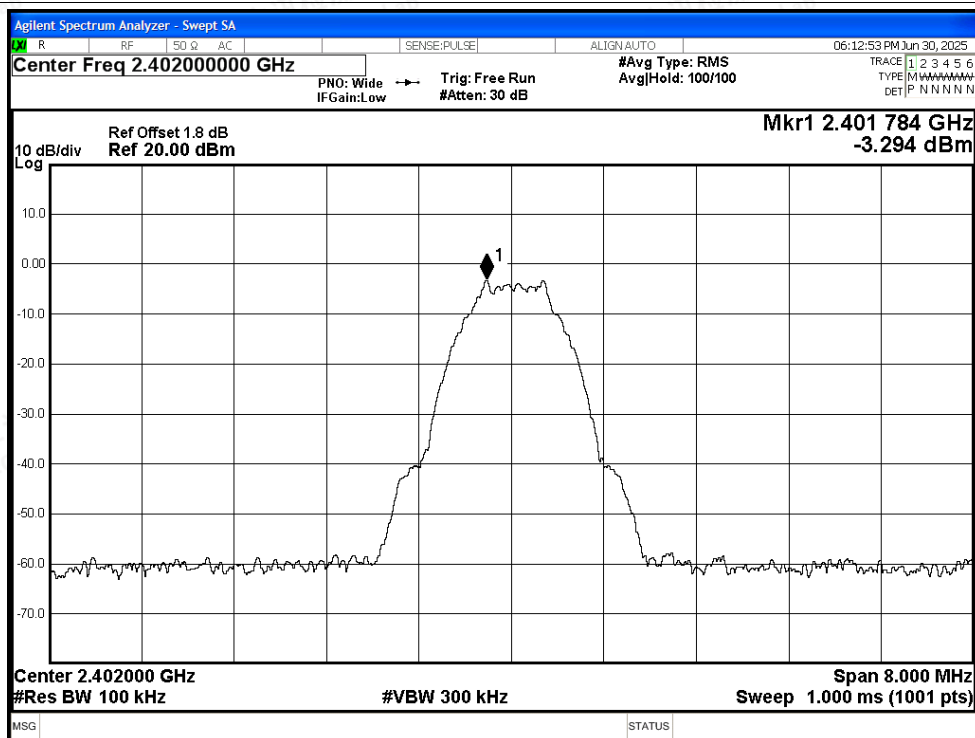
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-53.7	-20	Pass
NVNT	BLE 1M	2480	Ant1	-56	-20	Pass
NVNT	BLE 2M	2402	Ant1	-42.27	-20	Pass
NVNT	BLE 2M	2480	Ant1	-55.5	-20	Pass



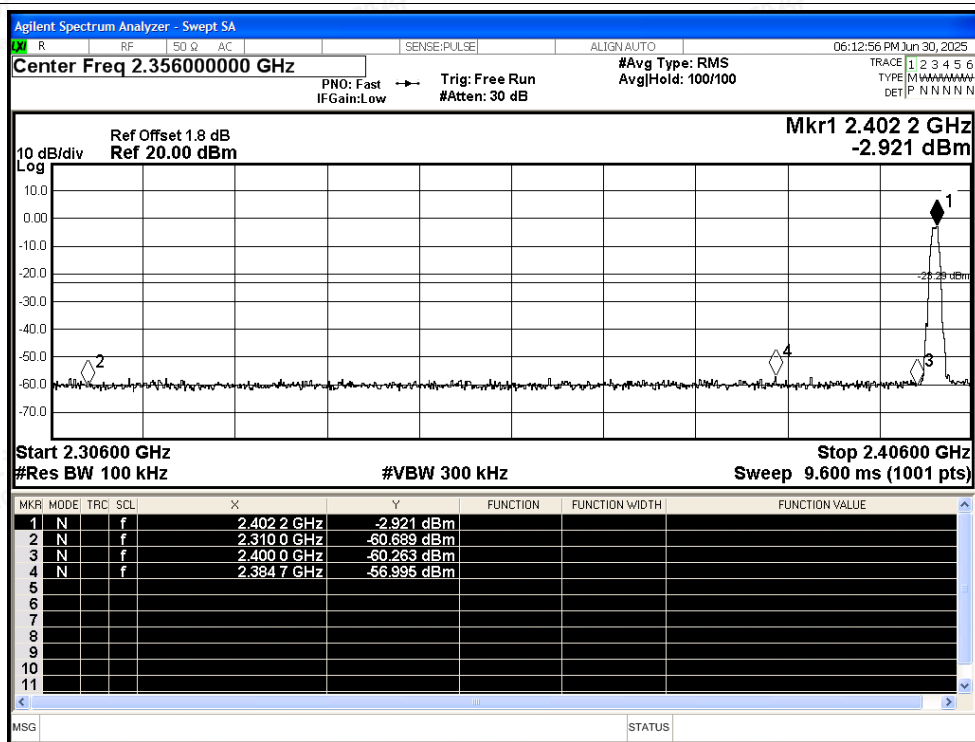


Test Graphs

Band Edge NVNT BLE 1M 2402MHz Ant1 Ref



Band Edge NVNT BLE 1M 2402MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

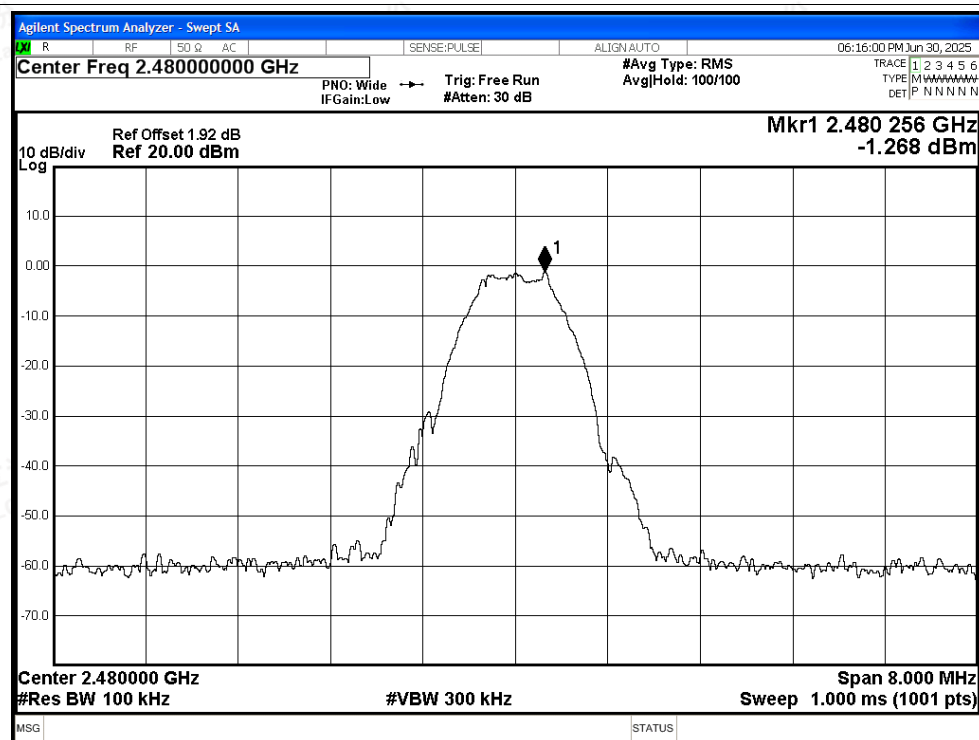
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

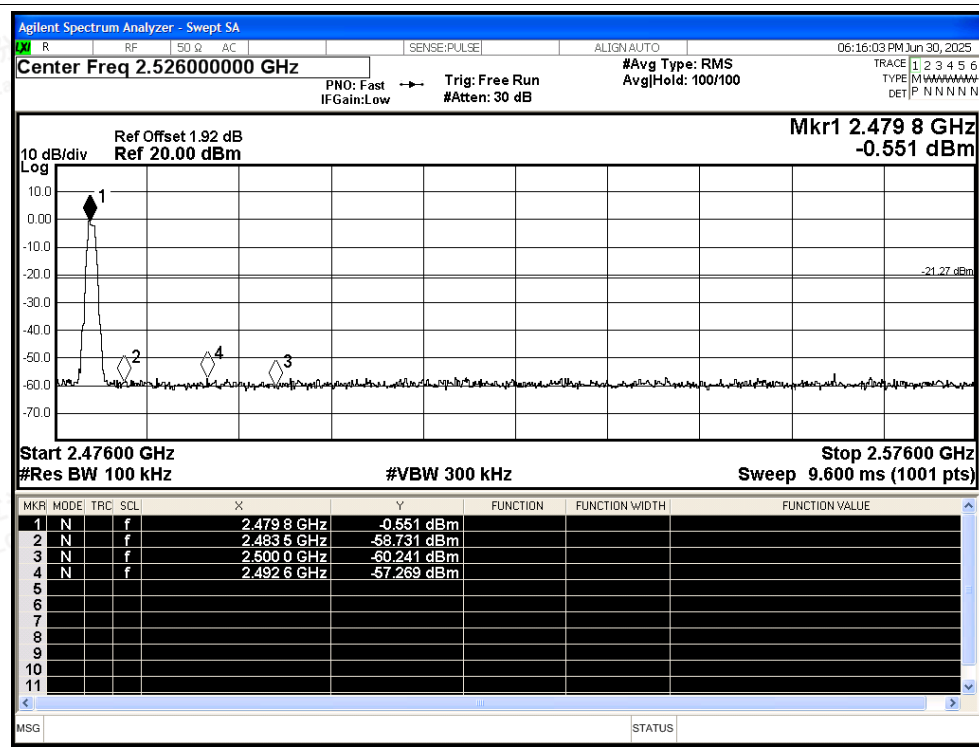
Scan code to check authenticity



Band Edge NVNT BLE 1M 2480MHz Ant1 Ref



Band Edge NVNT BLE 1M 2480MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

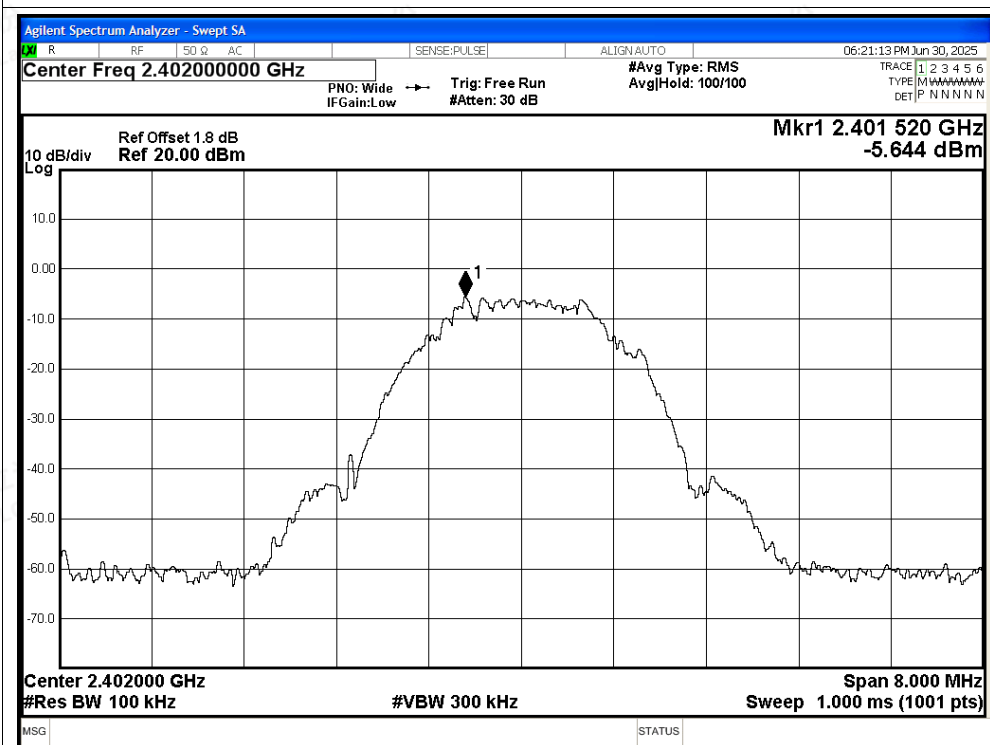
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

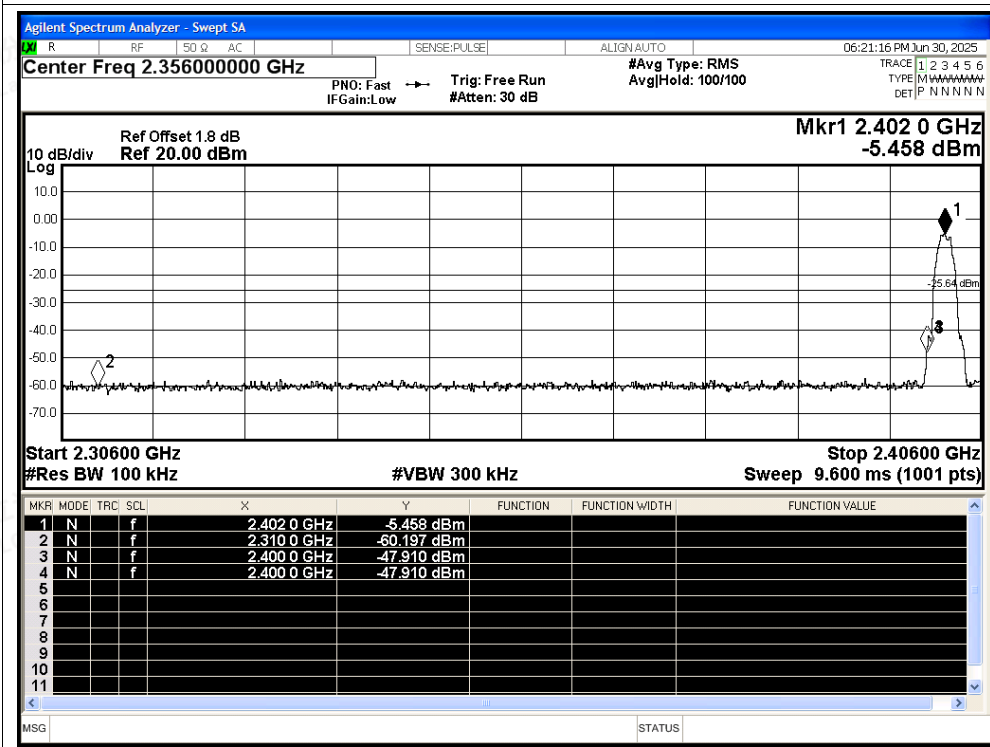
Scan code to check authenticity



Band Edge NVNT BLE 2M 2402MHz Ant1 Ref



Band Edge NVNT BLE 2M 2402MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

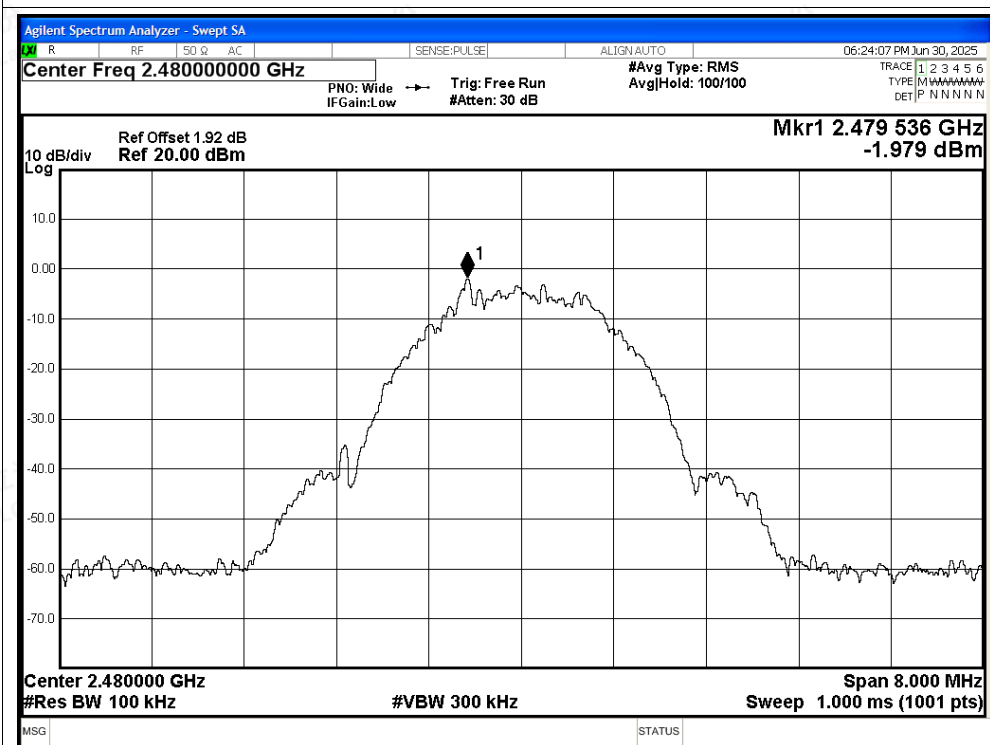
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

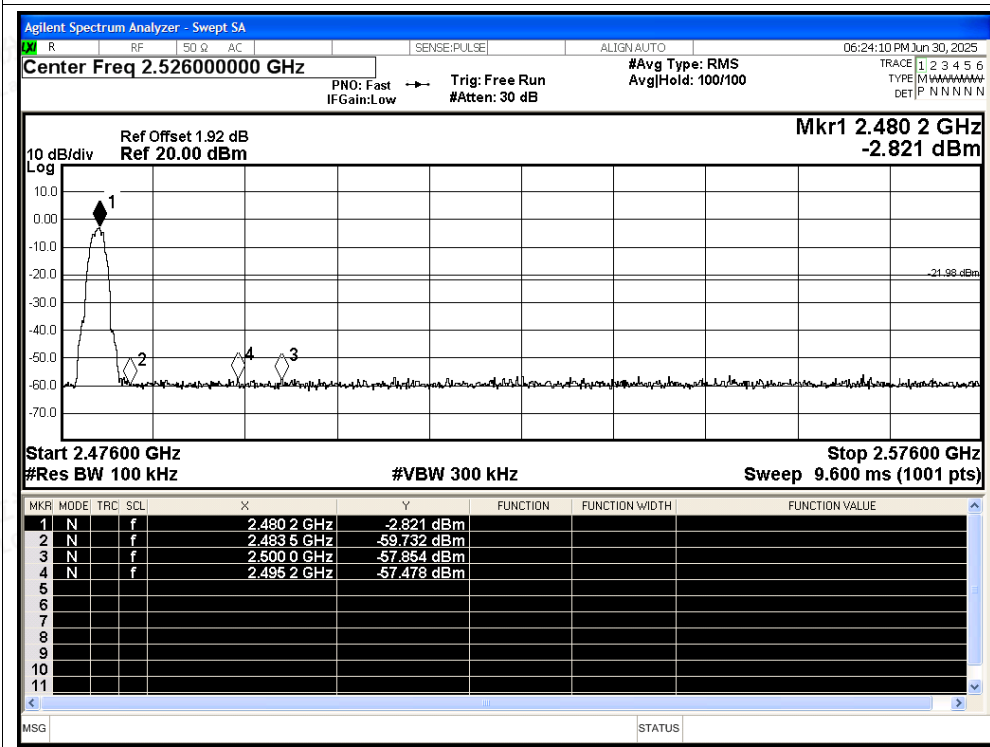
Scan code to check authenticity



Band Edge NVNT BLE 2M 2480MHz Ant1 Ref



Band Edge NVNT BLE 2M 2480MHz Ant1 Emission



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Scan code to check authenticity



Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant4	-54.6	-20	Pass
NVNT	BLE 1M	2480	Ant4	-55.76	-20	Pass
NVNT	BLE 2M	2402	Ant4	-47.64	-20	Pass
NVNT	BLE 2M	2480	Ant4	-53.63	-20	Pass

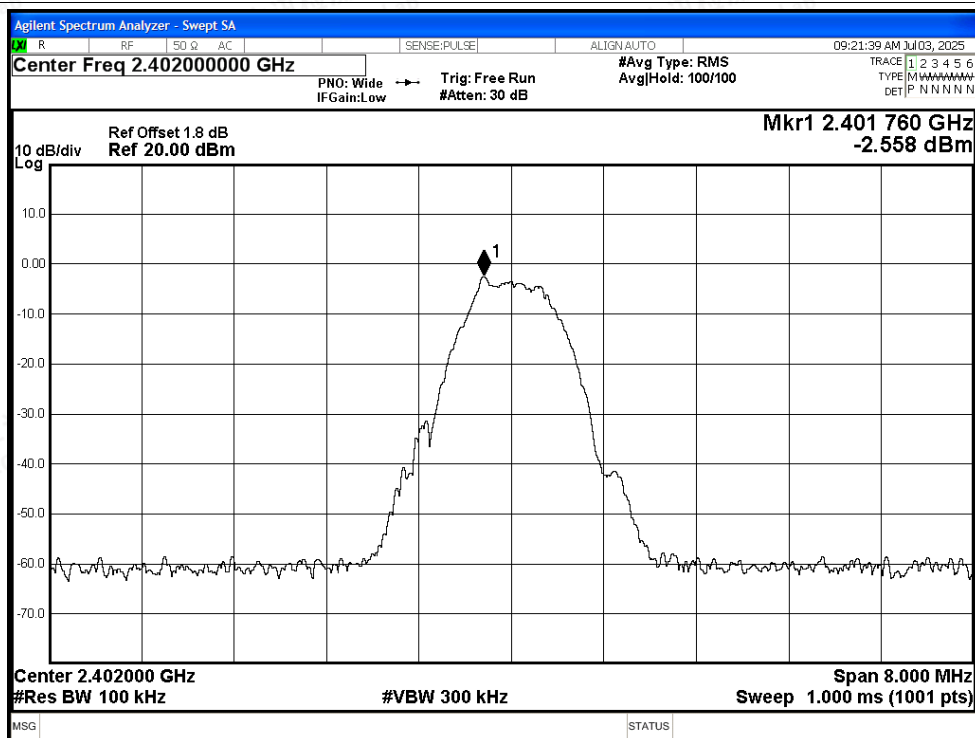


Shenzhen LCS Compliance Testing Laboratory Ltd.
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen,
518000, China
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
Scan code to check authenticity

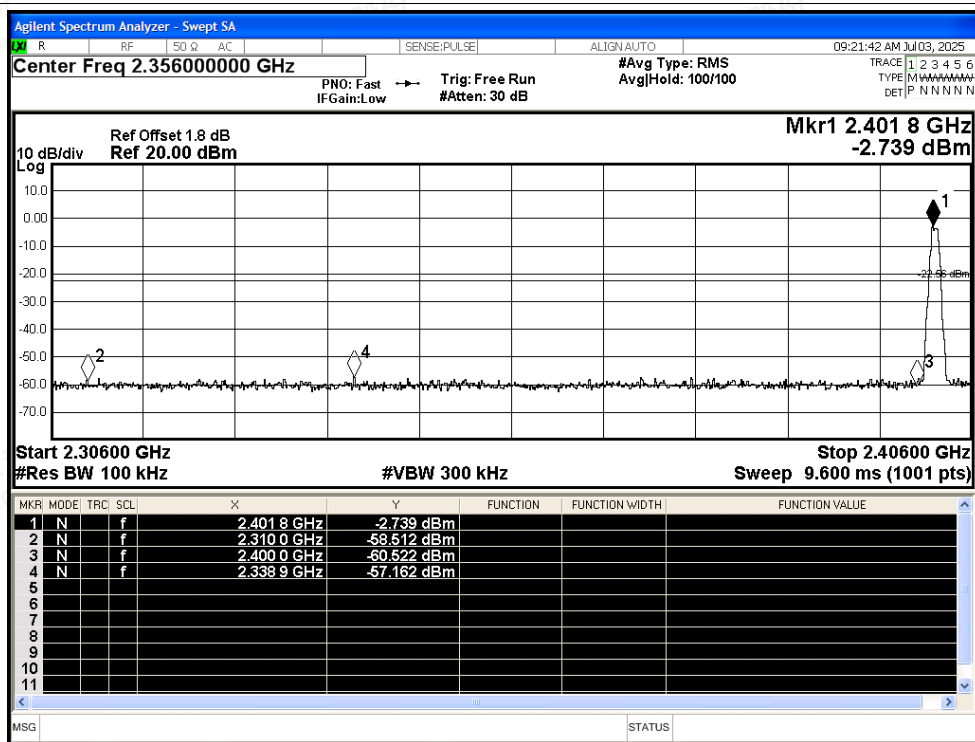


Test Graphs

Band Edge NVNT BLE 1M 2402MHz Ant4 Ref



Band Edge NVNT BLE 1M 2402MHz Ant4 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

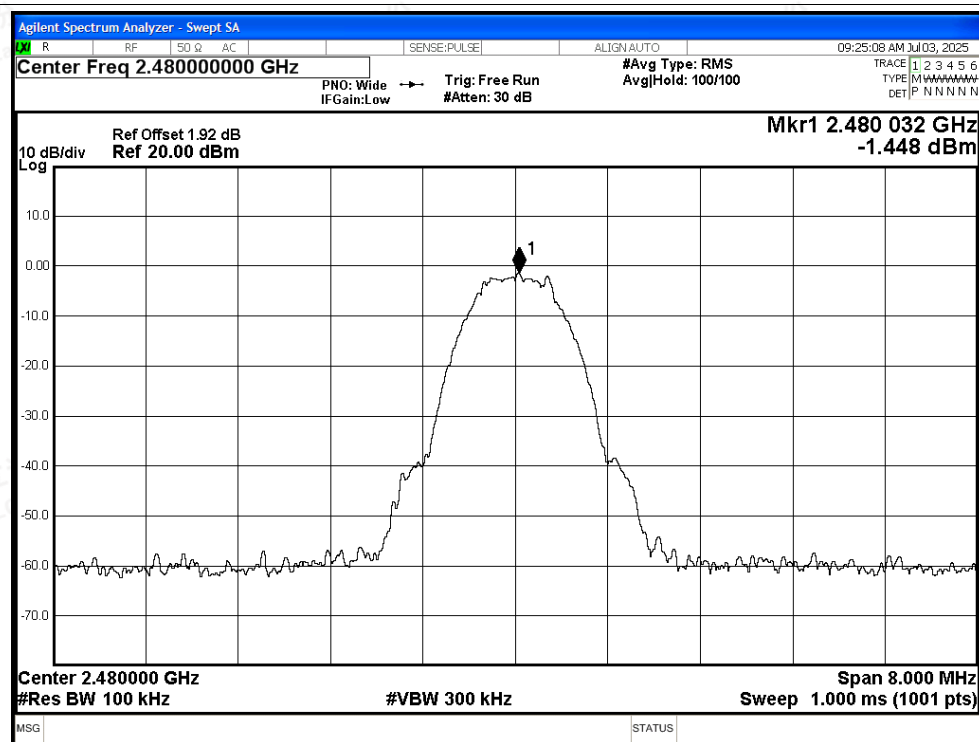
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

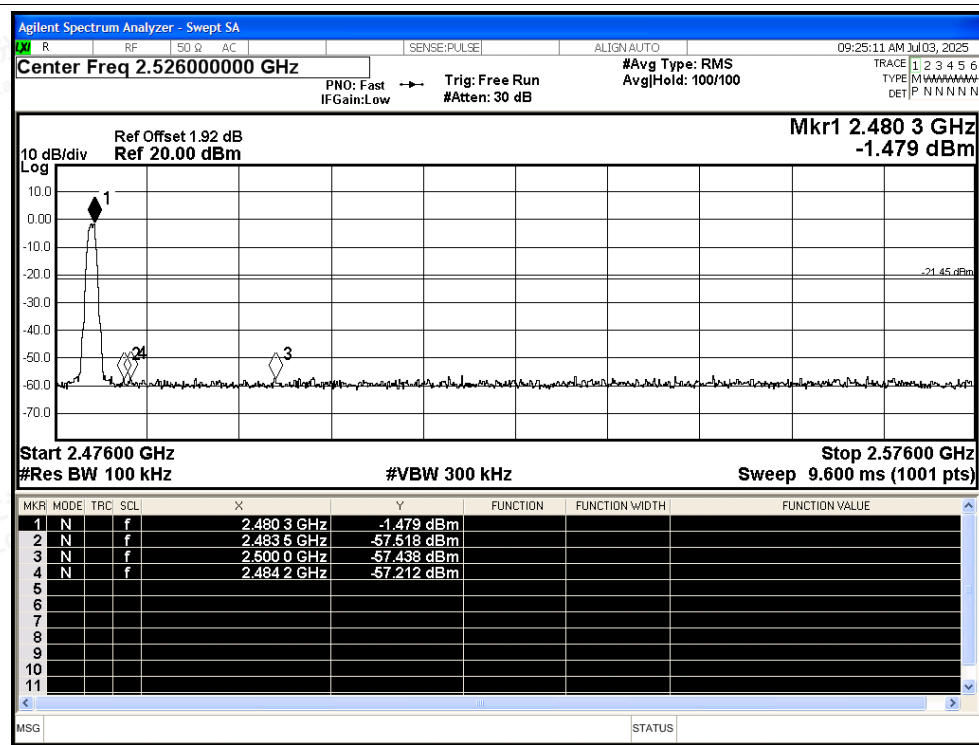
Scan code to check authenticity



Band Edge NVNT BLE 1M 2480MHz Ant4 Ref



Band Edge NVNT BLE 1M 2480MHz Ant4 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

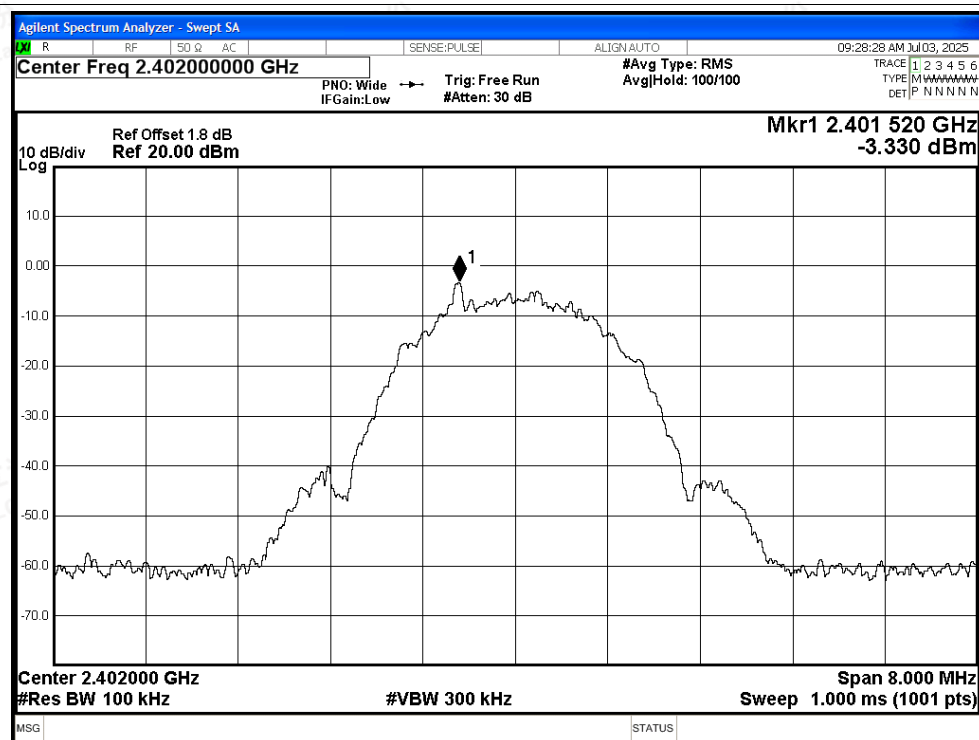
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

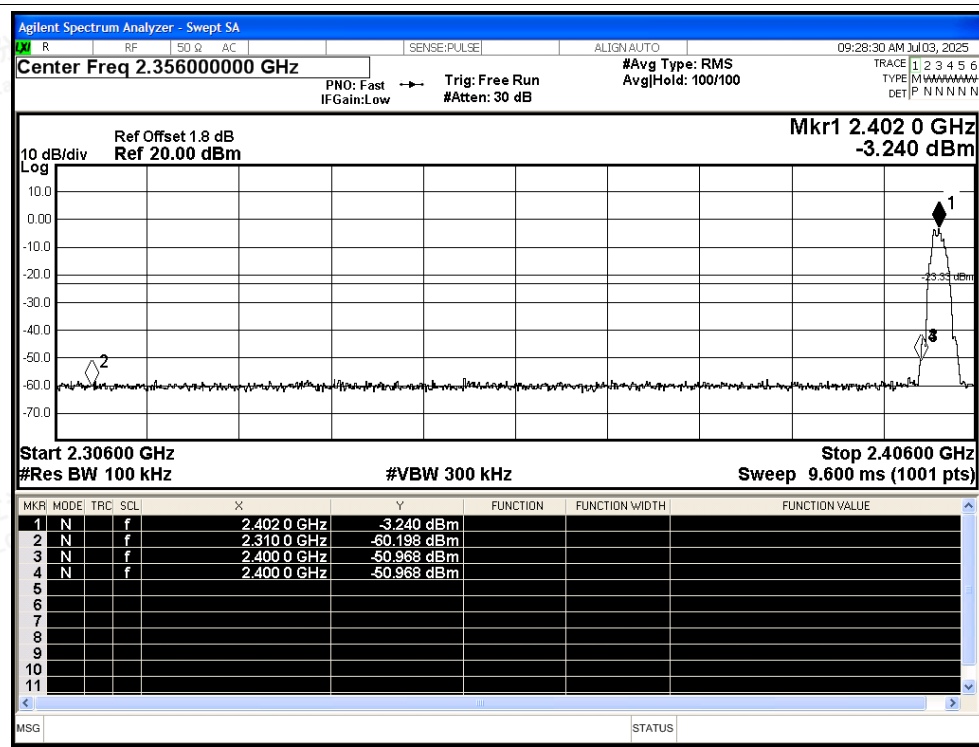
Scan code to check authenticity



Band Edge NVNT BLE 2M 2402MHz Ant4 Ref



Band Edge NVNT BLE 2M 2402MHz Ant4 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

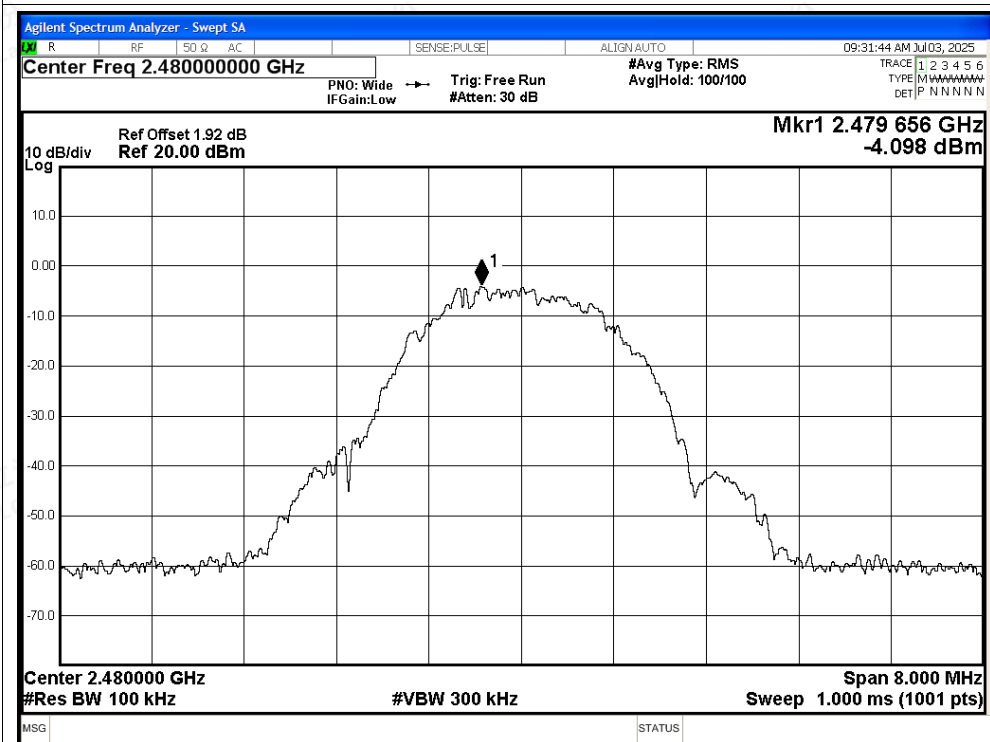
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

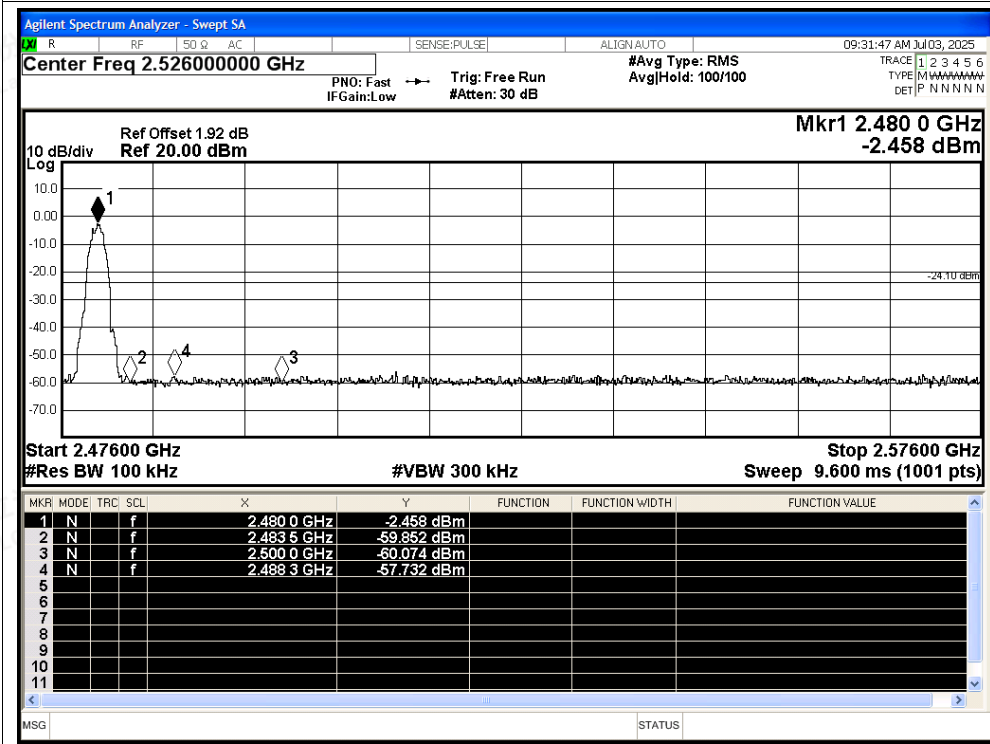
Scan code to check authenticity



Band Edge NVNT BLE 2M 2480MHz Ant4 Ref



Band Edge NVNT BLE 2M 2480MHz Ant4 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

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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	Ant1	-52.82	-20	Pass
NVNT	BLE 1M	2440	Ant1	-54.63	-20	Pass
NVNT	BLE 1M	2480	Ant1	-54.96	-20	Pass
NVNT	BLE 2M	2402	Ant1	-51.19	-20	Pass
NVNT	BLE 2M	2440	Ant1	-55.19	-20	Pass
NVNT	BLE 2M	2480	Ant1	-53.97	-20	Pass

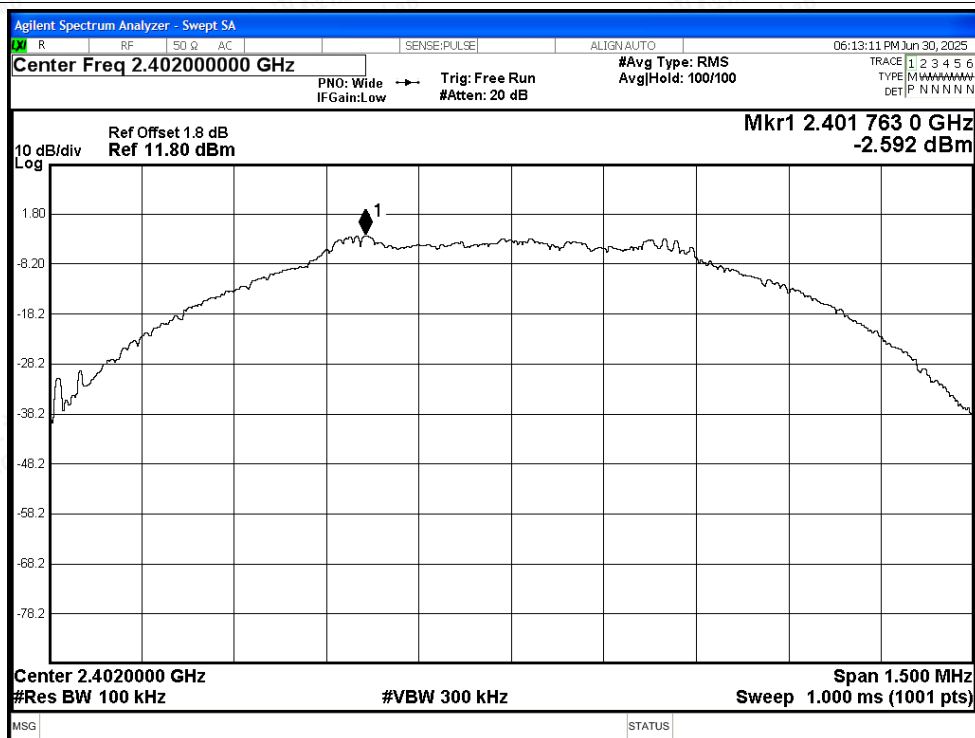


Shenzhen LCS Compliance Testing Laboratory Ltd.
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
Scan code to check authenticity

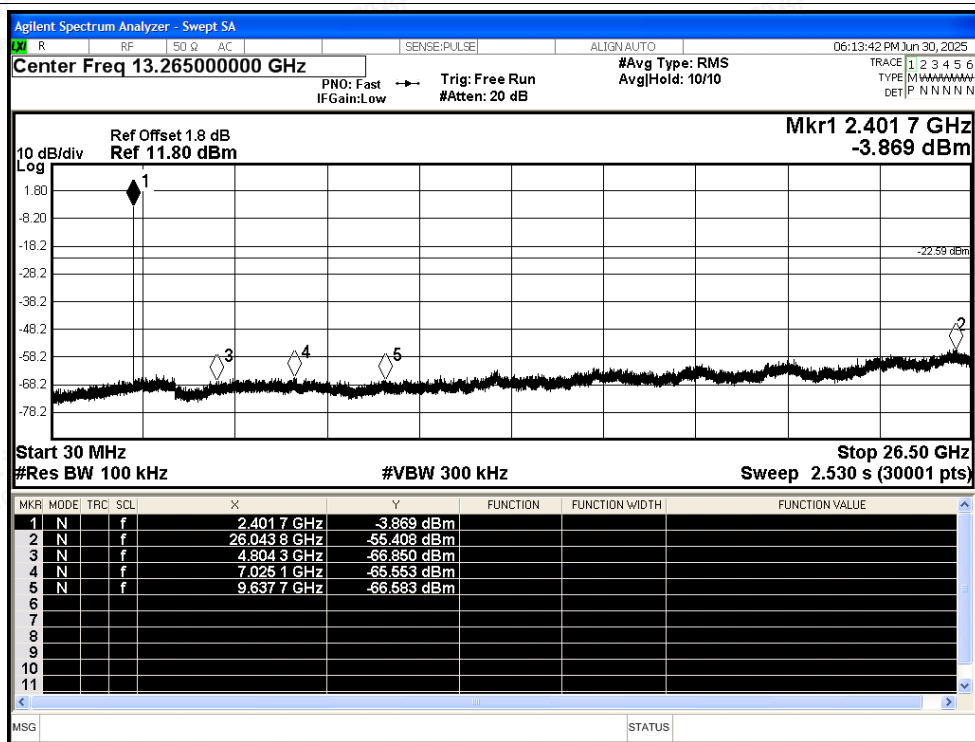


Test Graphs

Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

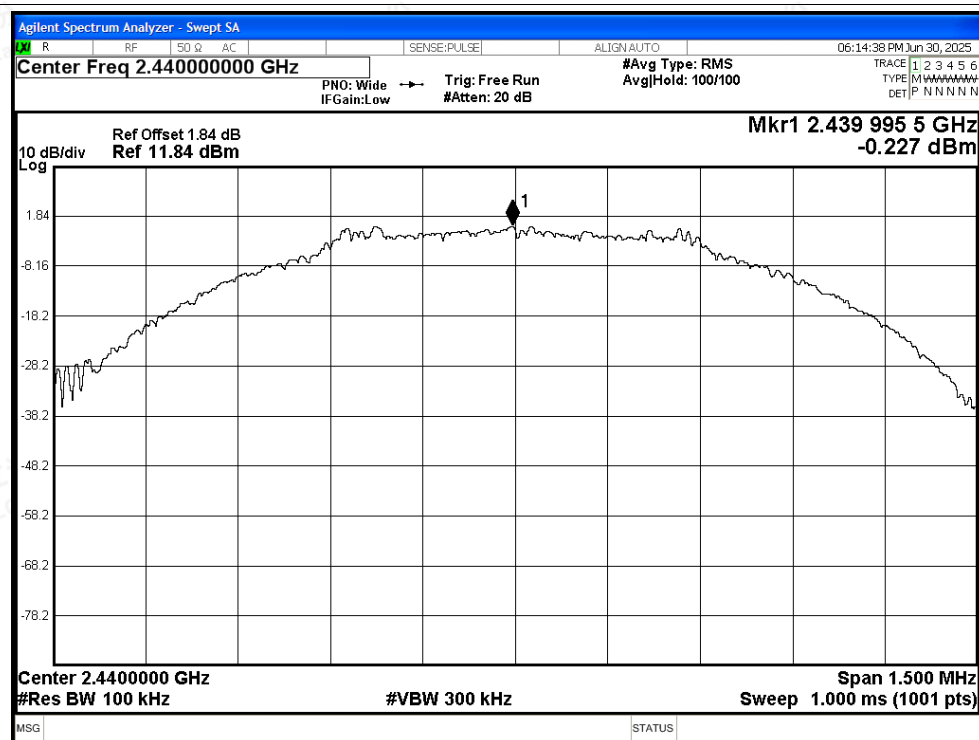
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

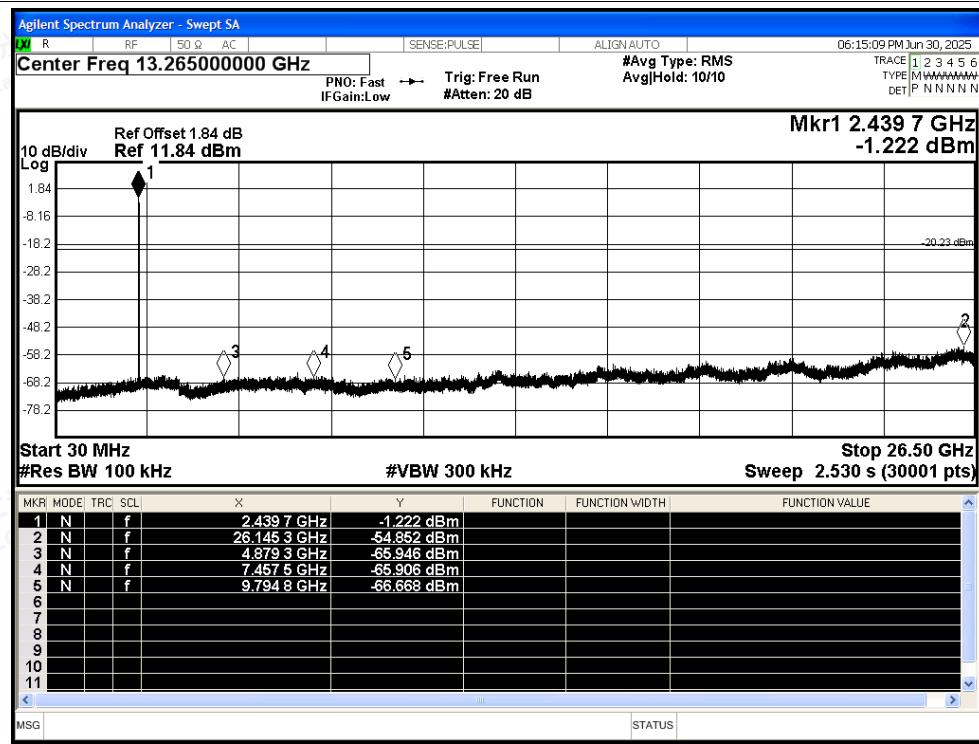
Scan code to check authenticity



Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

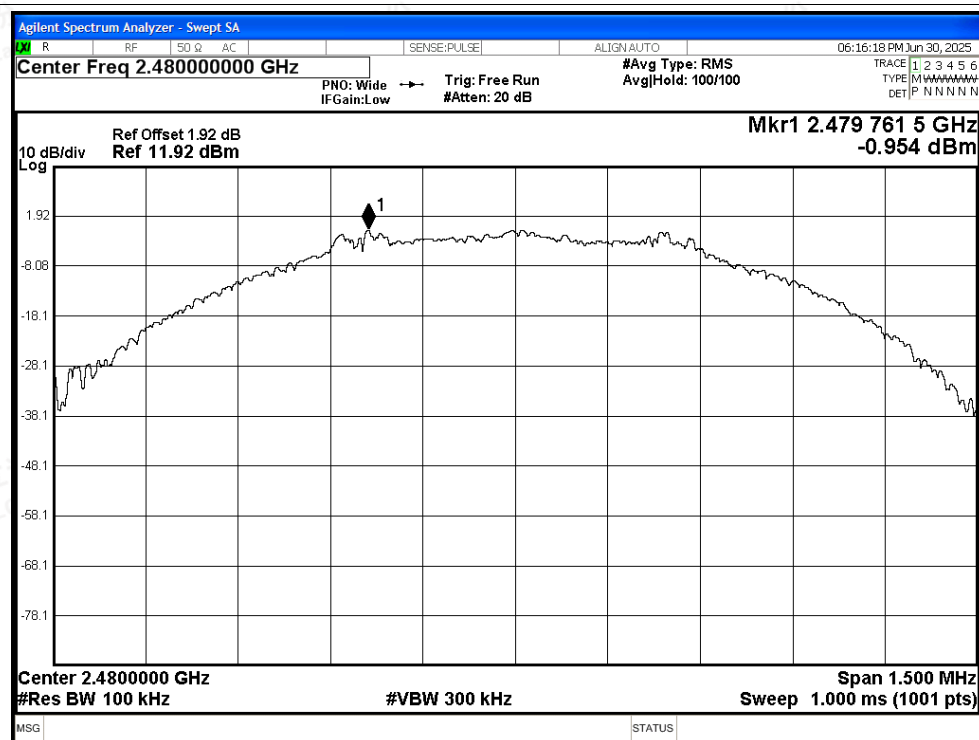
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

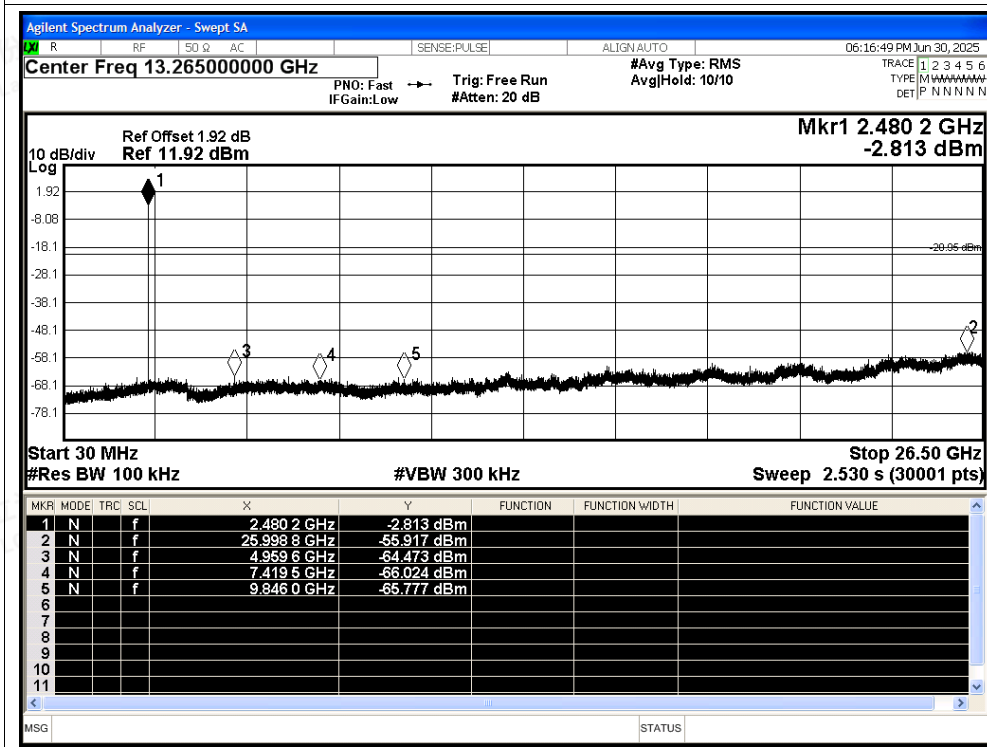
Scan code to check authenticity



Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

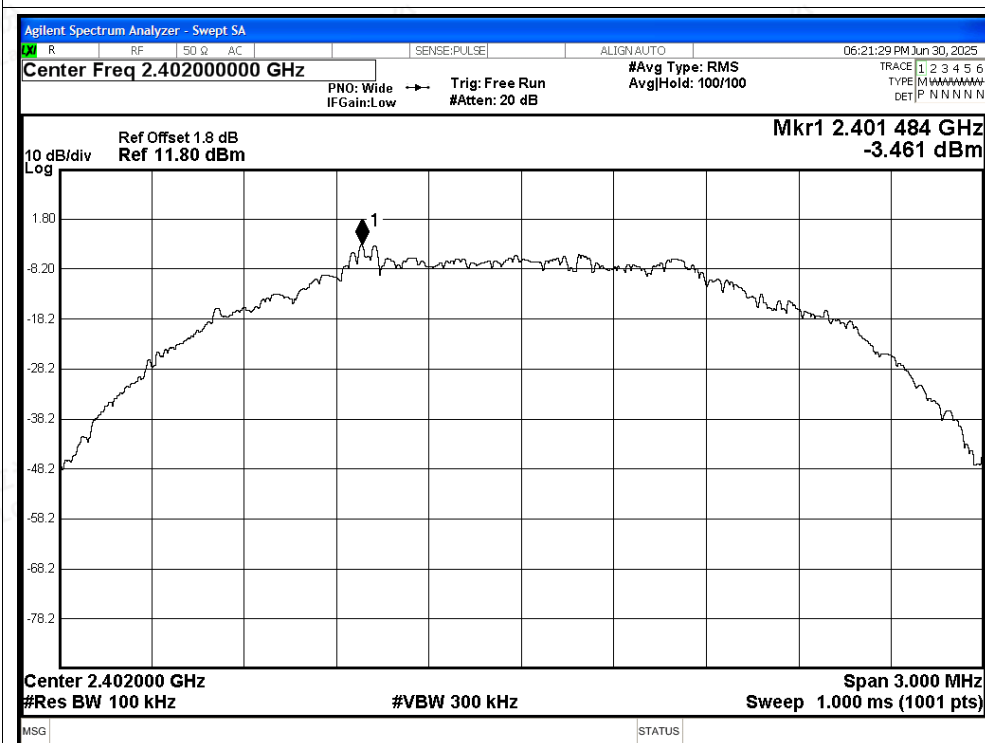
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

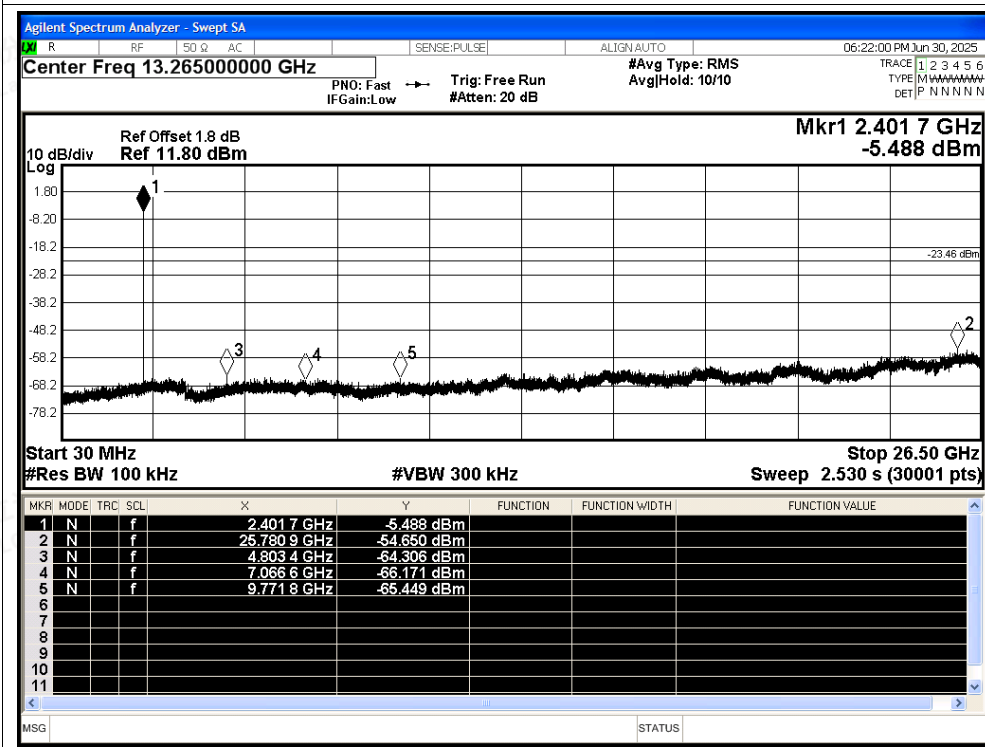
Scan code to check authenticity



Tx. Spurious NVNT BLE 2M 2402MHz Ant1 Ref



Tx. Spurious NVNT BLE 2M 2402MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

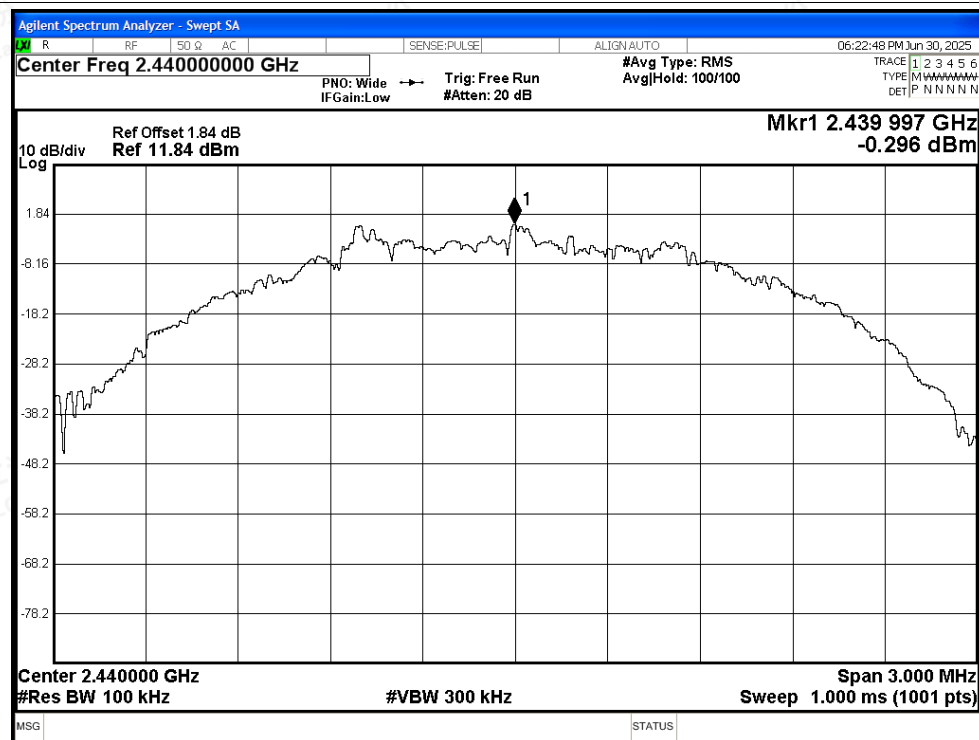
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

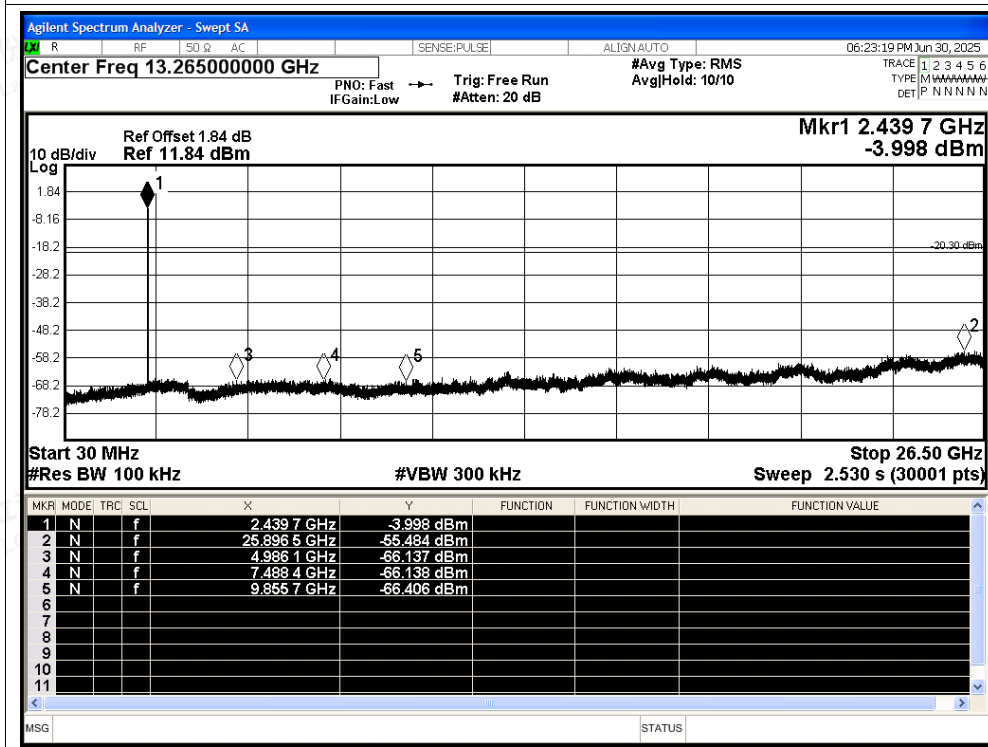
Scan code to check authenticity



Tx. Spurious NVNT BLE 2M 2440MHz Ant1 Ref



Tx. Spurious NVNT BLE 2M 2440MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

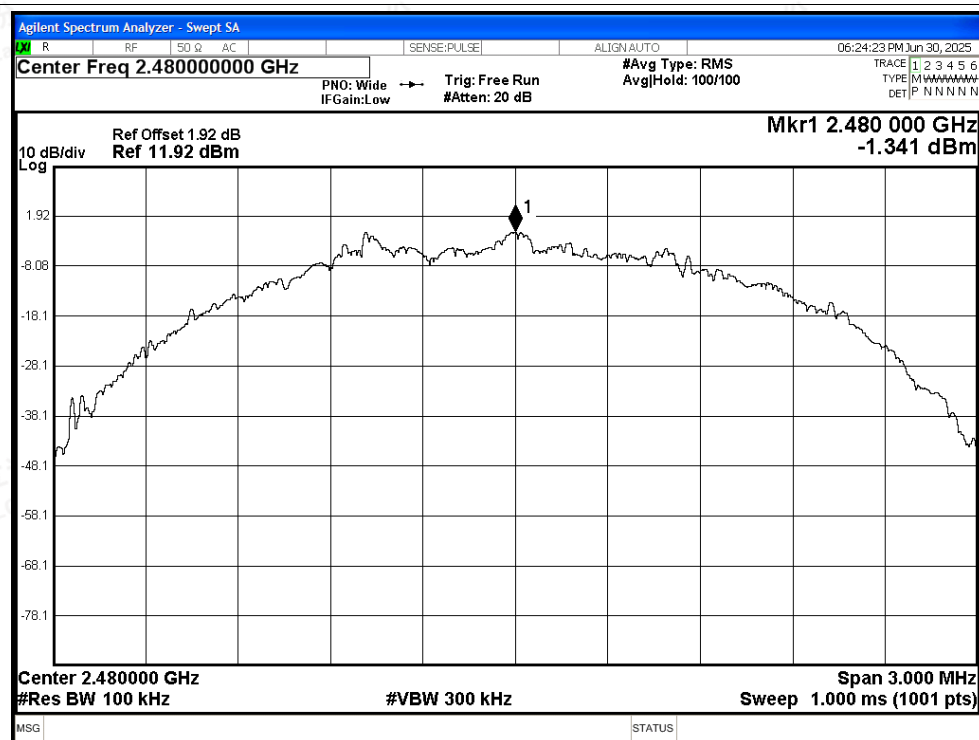
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

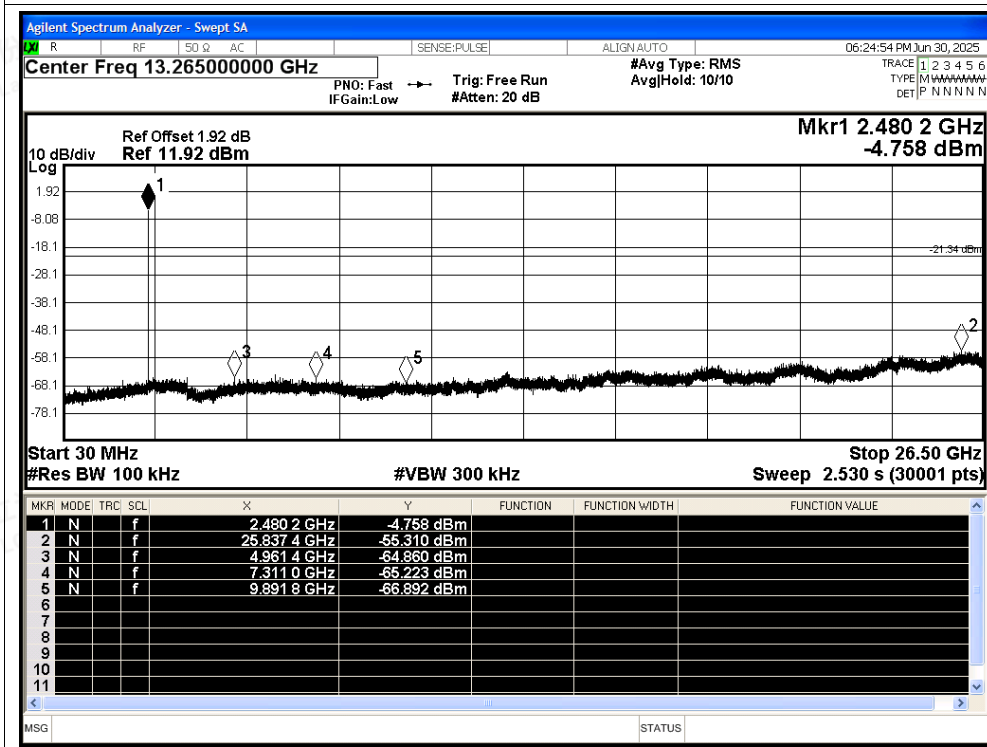
Scan code to check authenticity



Tx. Spurious NVNT BLE 2M 2480MHz Ant1 Ref



Tx. Spurious NVNT BLE 2M 2480MHz Ant1 Emission



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



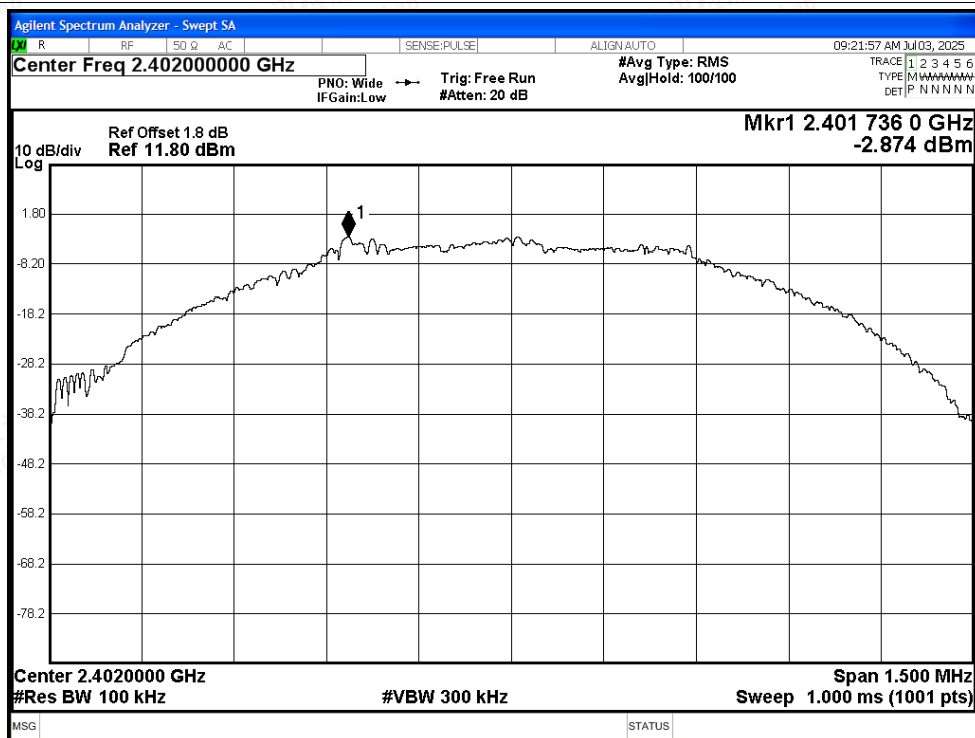
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant4	-52.39	-20	Pass
NVNT	BLE 1M	2440	Ant4	-55.77	-20	Pass
NVNT	BLE 1M	2480	Ant4	-54.19	-20	Pass
NVNT	BLE 2M	2402	Ant4	-51.44	-20	Pass
NVNT	BLE 2M	2440	Ant4	-54.51	-20	Pass
NVNT	BLE 2M	2480	Ant4	-53.33	-20	Pass



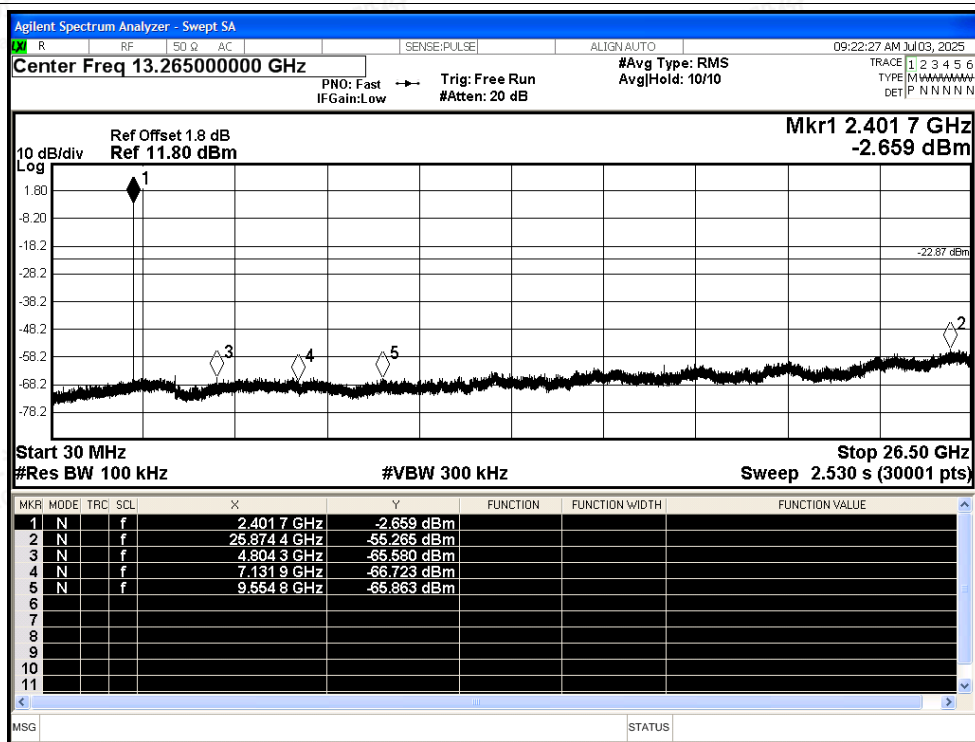


Test Graphs

Tx. Spurious NVNT BLE 1M 2402MHz Ant4 Ref



Tx. Spurious NVNT BLE 1M 2402MHz Ant4 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

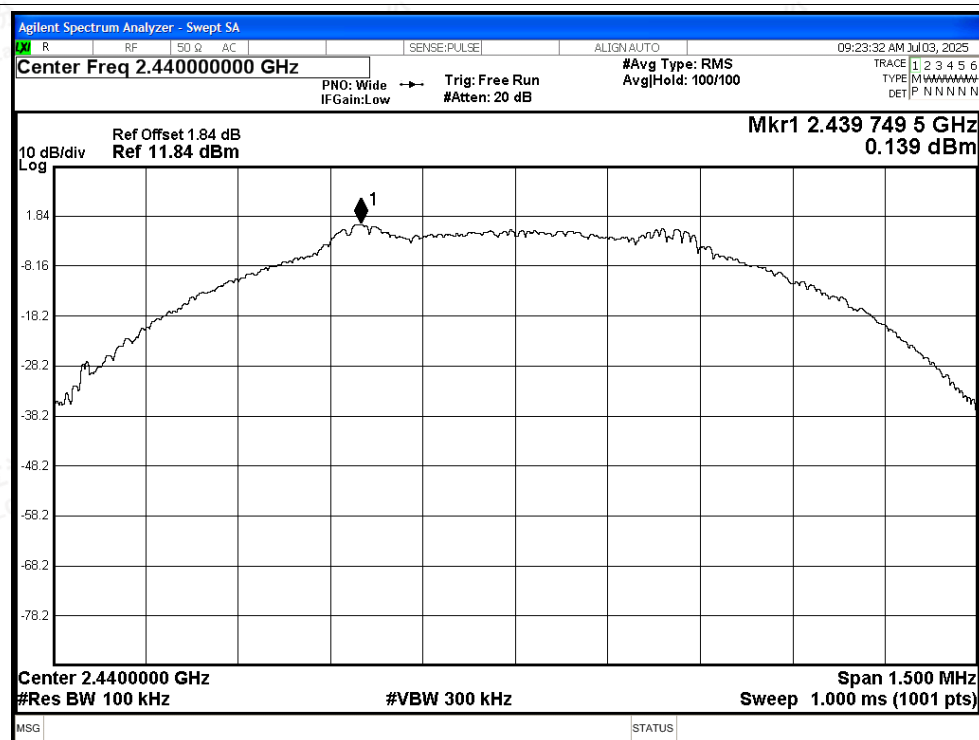
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

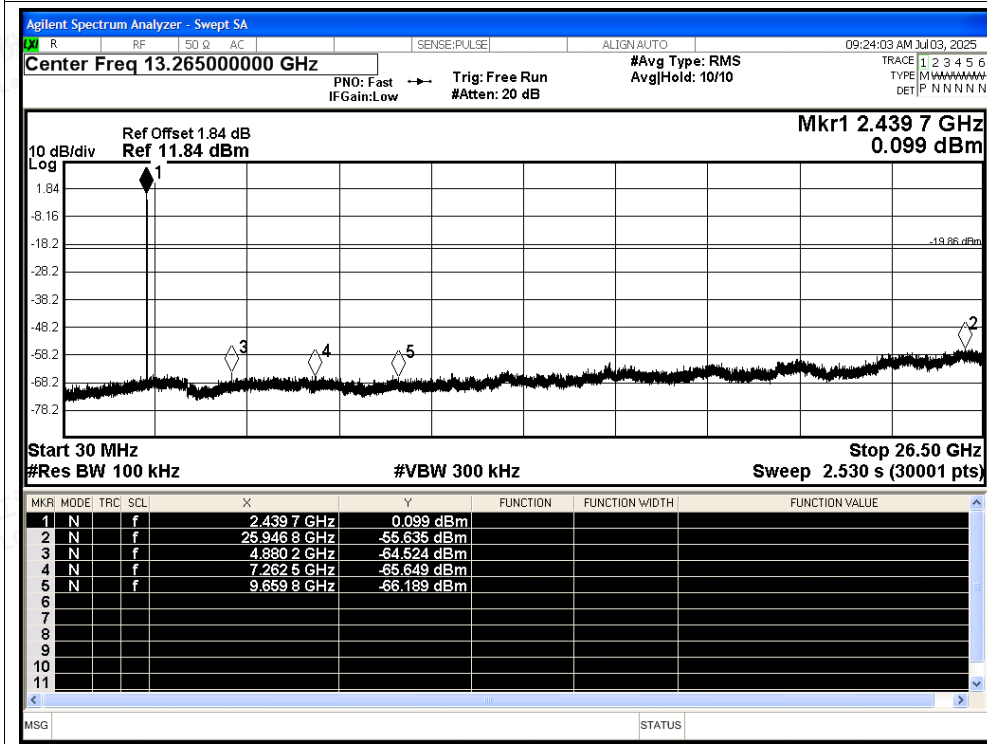
Scan code to check authenticity



Tx. Spurious NVNT BLE 1M 2440MHz Ant4 Ref



Tx. Spurious NVNT BLE 1M 2440MHz Ant4 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

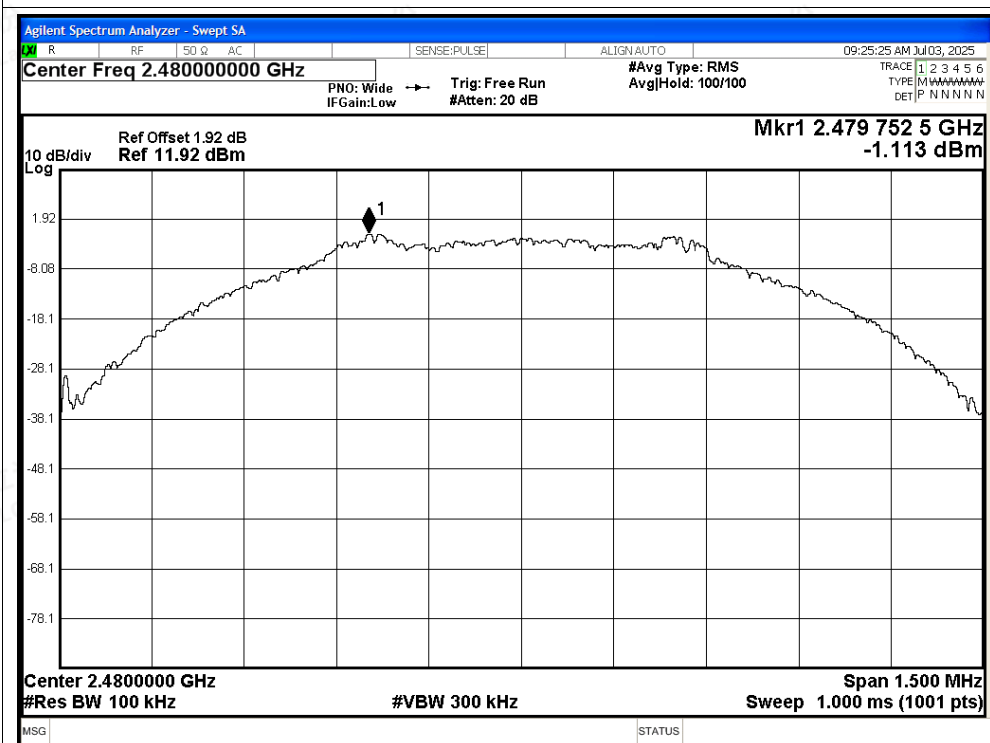
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

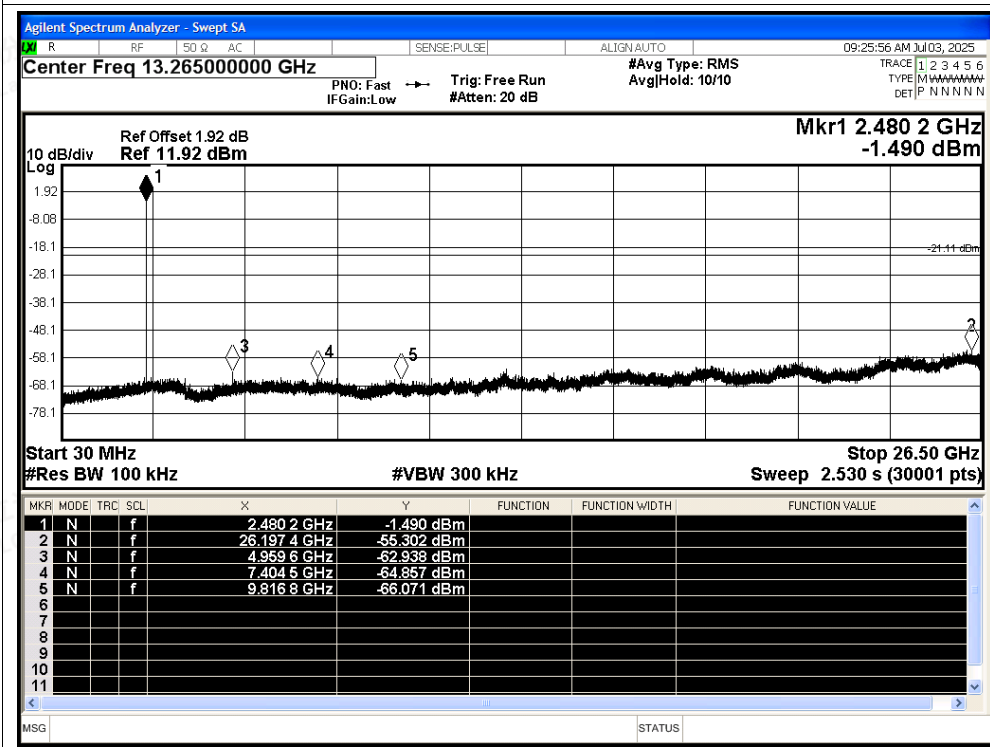
Scan code to check authenticity



Tx. Spurious NVNT BLE 1M 2480MHz Ant4 Ref



Tx. Spurious NVNT BLE 1M 2480MHz Ant4 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

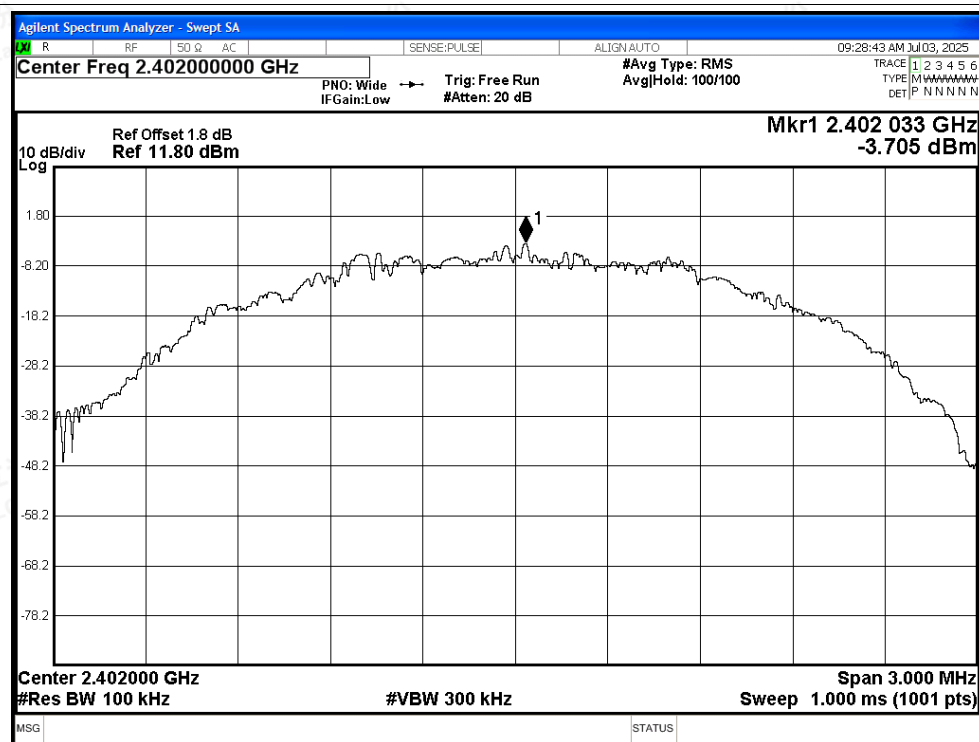
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

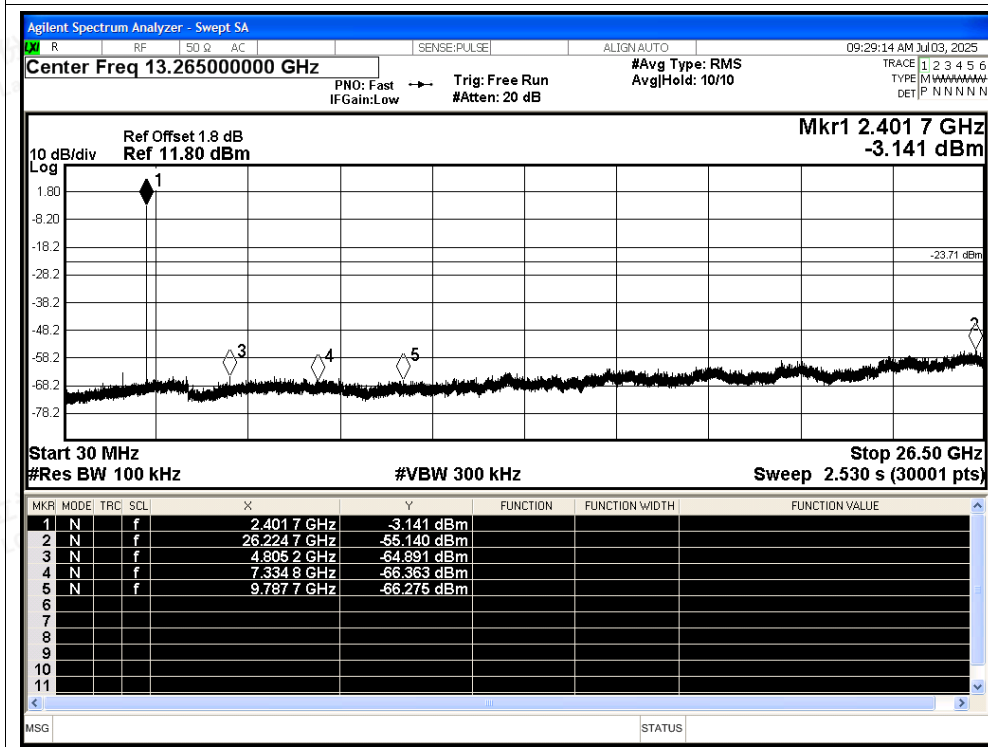
Scan code to check authenticity



Tx. Spurious NVNT BLE 2M 2402MHz Ant4 Ref



Tx. Spurious NVNT BLE 2M 2402MHz Ant4 Emission

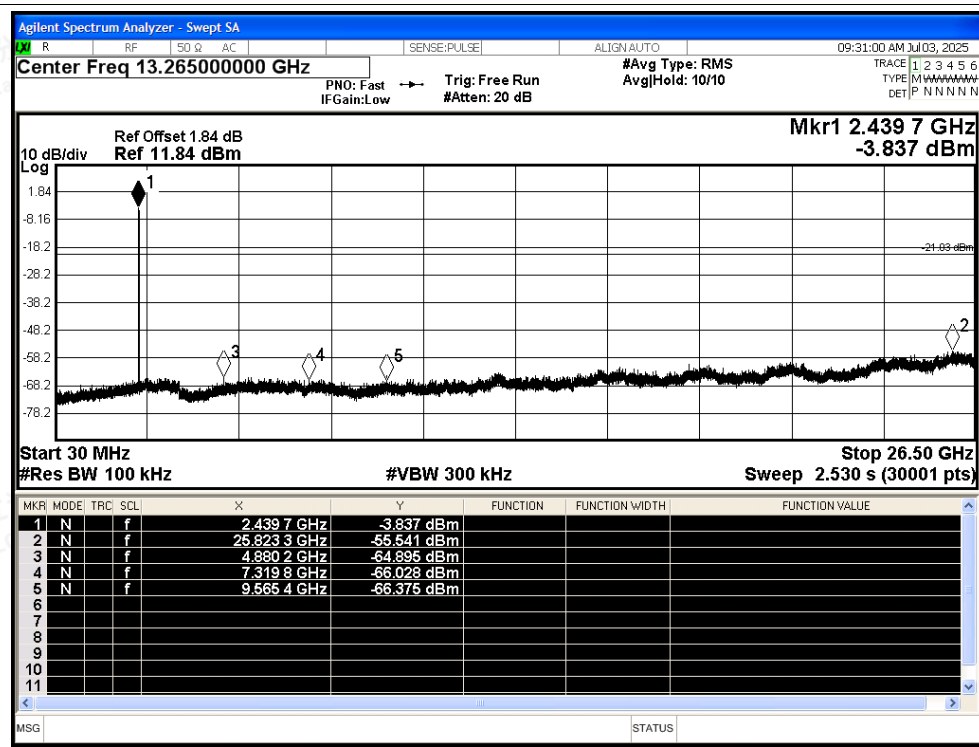




Tx. Spurious NVNT BLE 2M 2440MHz Ant4 Ref



Tx. Spurious NVNT BLE 2M 2440MHz Ant4 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

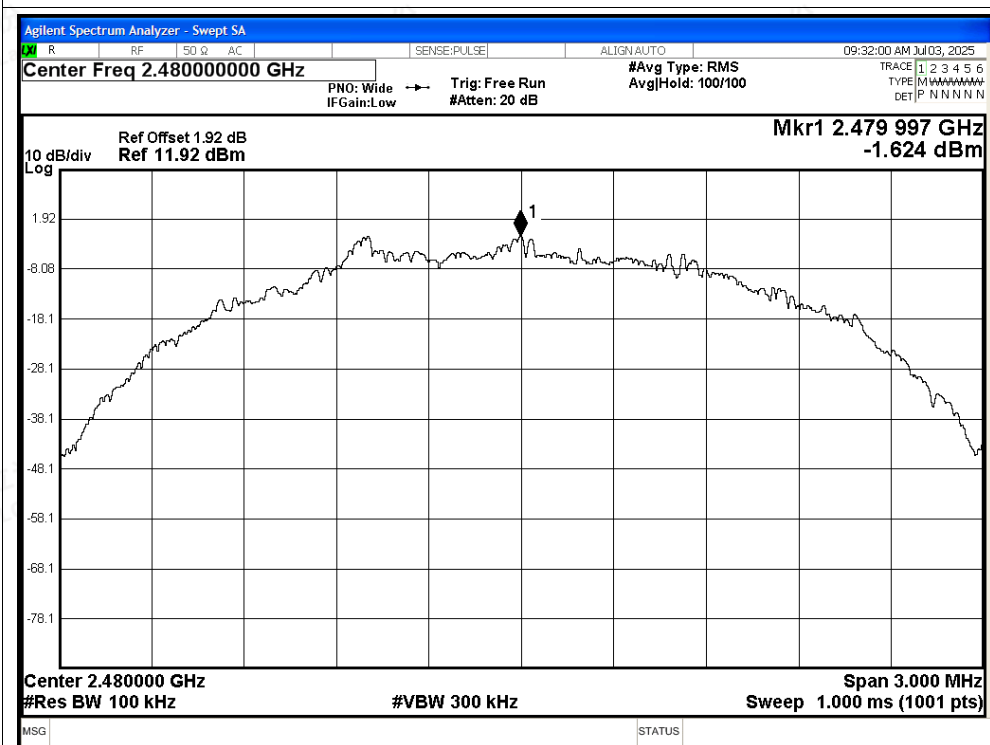
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

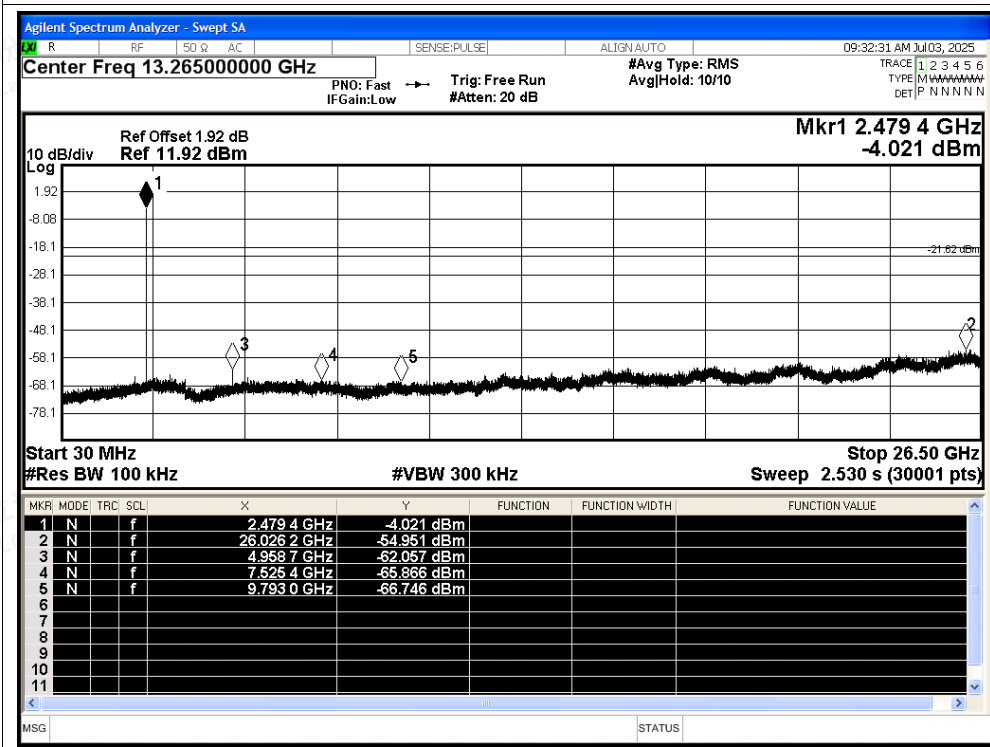
Scan code to check authenticity



Tx. Spurious NVNT BLE 2M 2480MHz Ant4 Ref



Tx. Spurious NVNT BLE 2M 2480MHz Ant4 Emission



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B.6 Duty Cycle

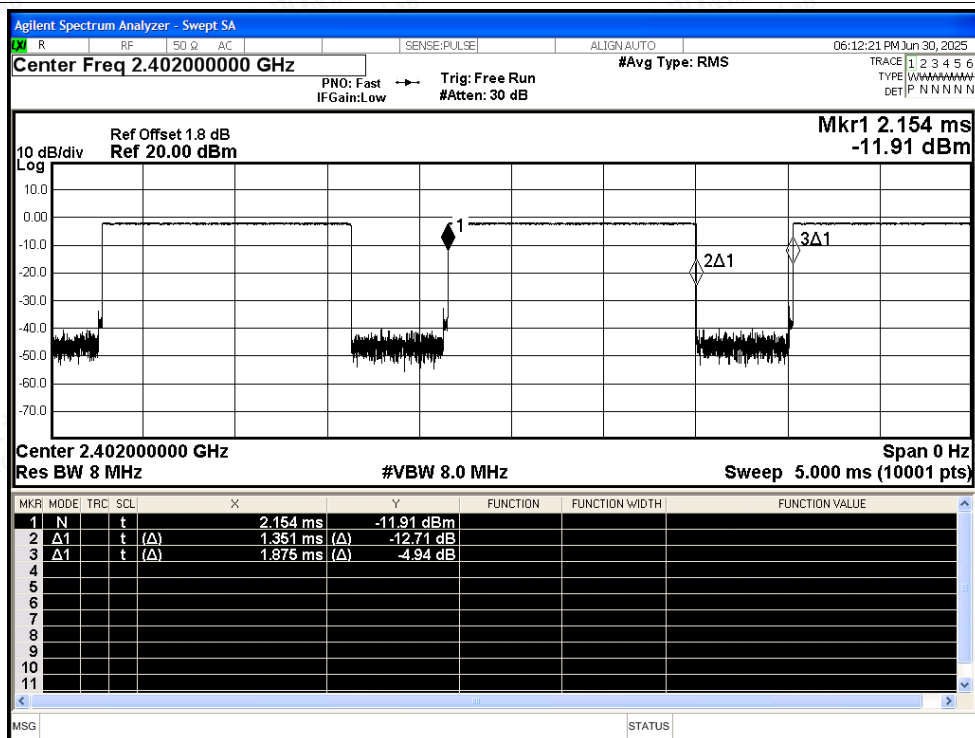
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	BLE 1M	2402	Ant1	72.03	1.42	0.74
NVNT	BLE 1M	2440	Ant1	72.03	1.42	0.74
NVNT	BLE 1M	2480	Ant1	72.03	1.42	0.74
NVNT	BLE 2M	2402	Ant1	54.38	2.65	1.47
NVNT	BLE 2M	2440	Ant1	54.4	2.64	1.47
NVNT	BLE 2M	2480	Ant1	54.4	2.64	1.47



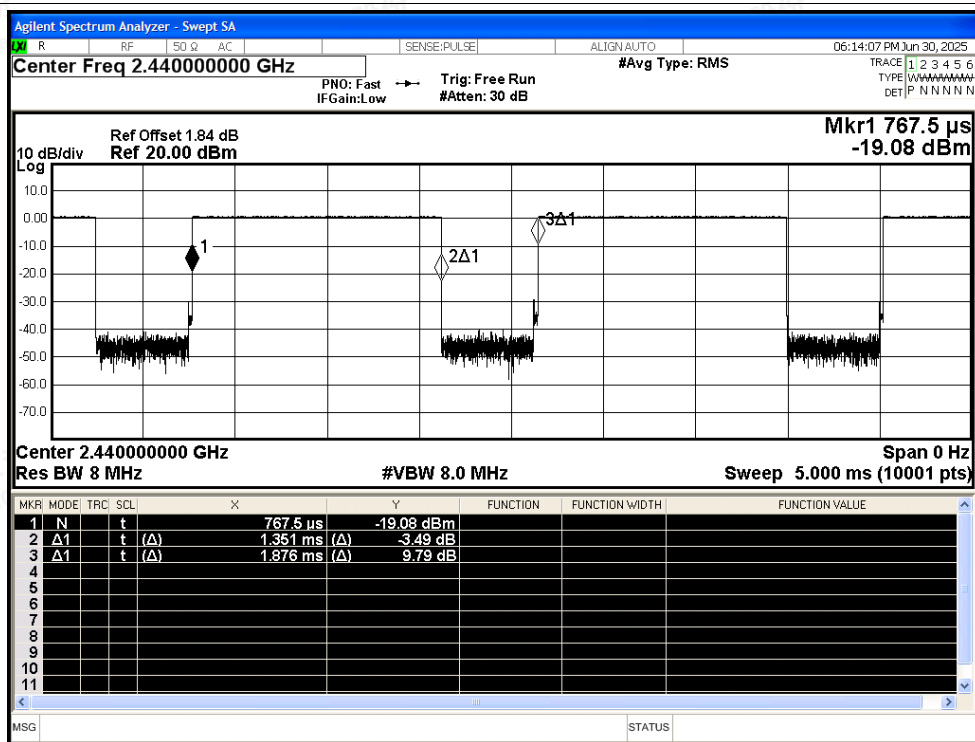


Test Graphs

Duty Cycle NVNT BLE 1M 2402MHz Ant1



Duty Cycle NVNT BLE 1M 2440MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

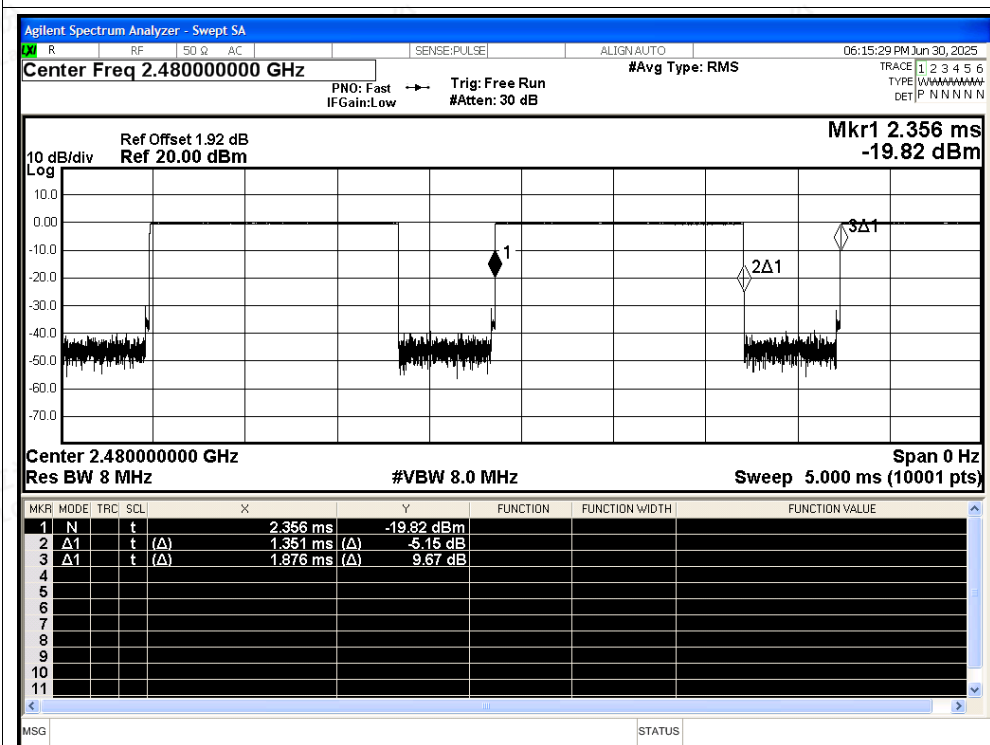
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

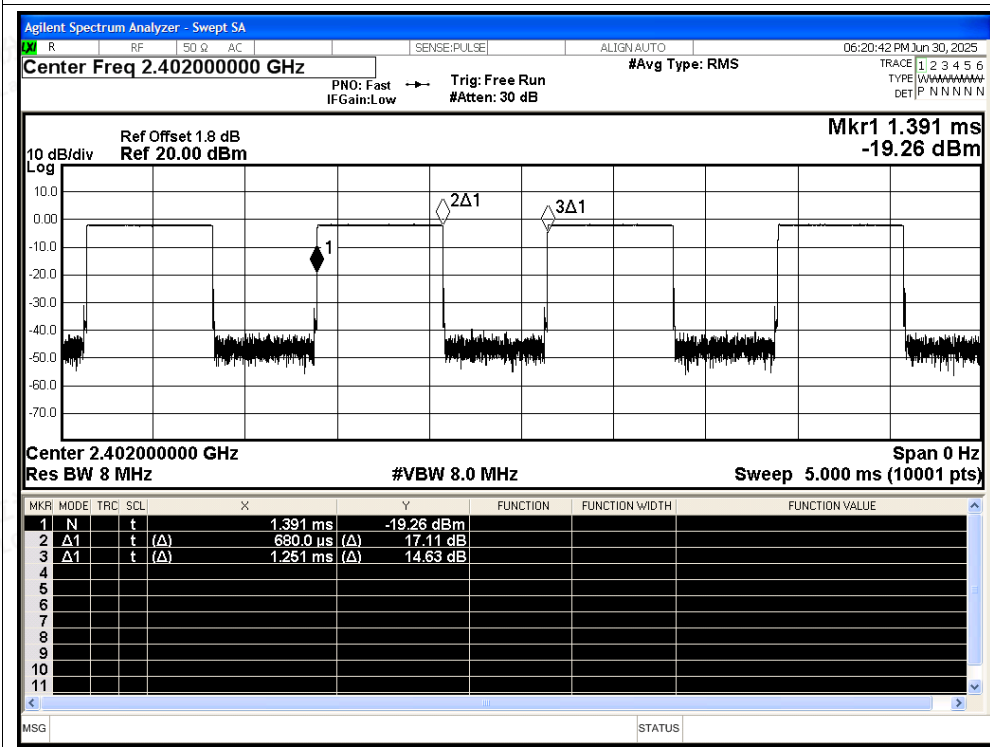
Scan code to check authenticity



Duty Cycle NVNT BLE 1M 2480MHz Ant1



Duty Cycle NVNT BLE 2M 2402MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

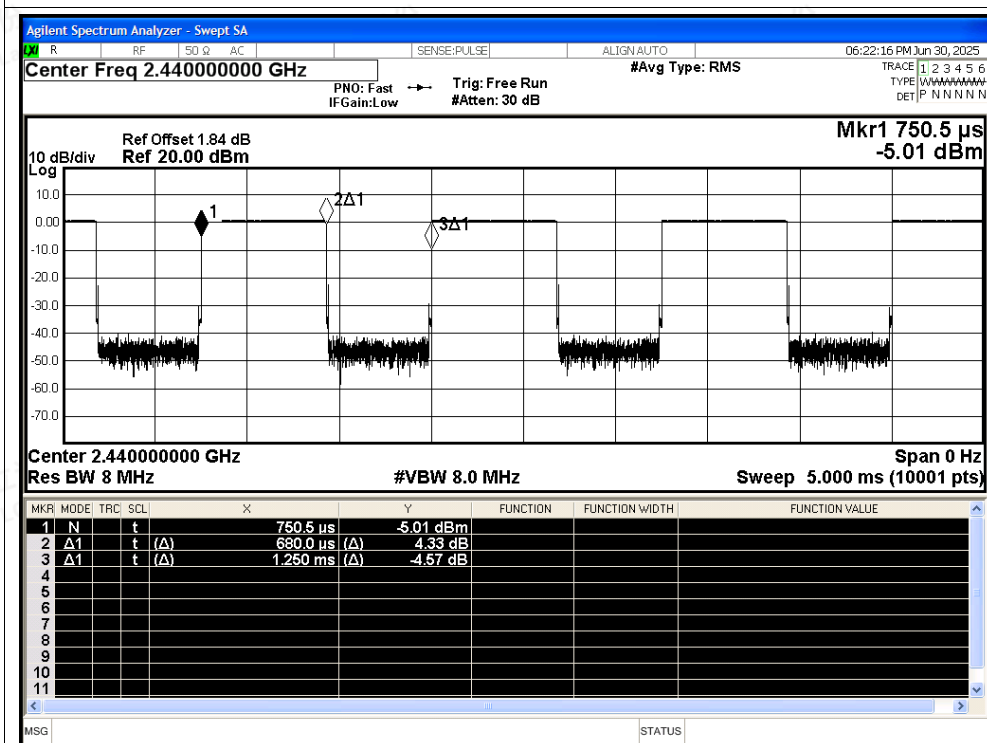
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

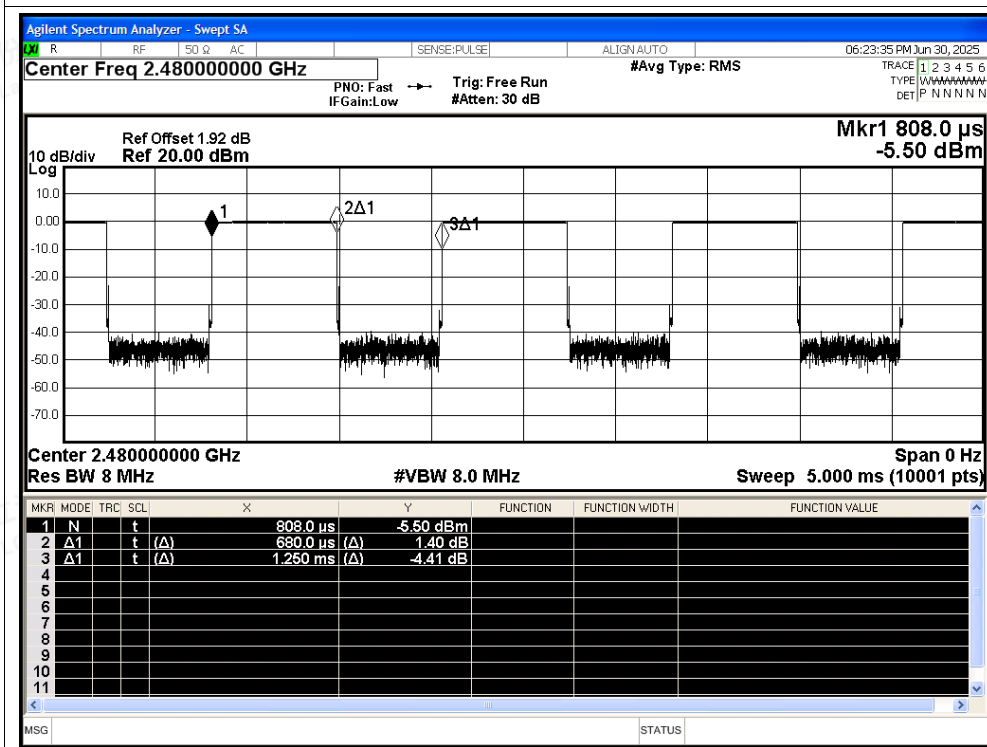
Scan code to check authenticity



Duty Cycle NVNT BLE 2M 2440MHz Ant1



Duty Cycle NVNT BLE 2M 2480MHz Ant1



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Scan code to check authenticity



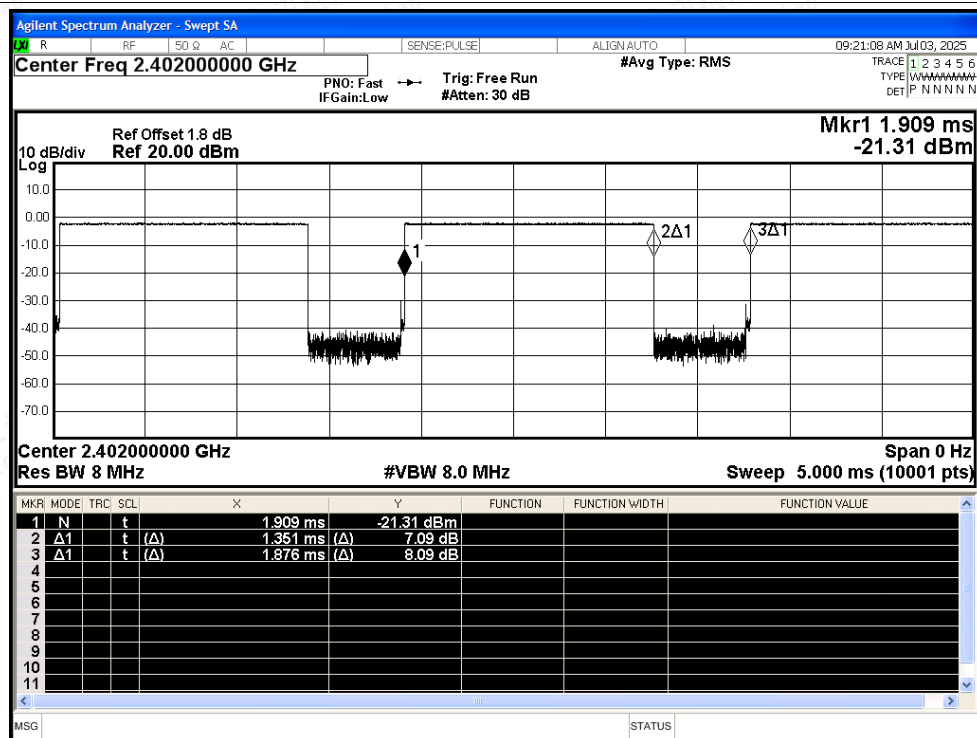
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	BLE 1M	2402	Ant4	72.01	1.43	0.74
NVNT	BLE 1M	2440	Ant4	72.03	1.42	0.74
NVNT	BLE 1M	2480	Ant4	72.03	1.42	0.74
NVNT	BLE 2M	2402	Ant4	54.4	2.64	1.47
NVNT	BLE 2M	2440	Ant4	54.42	2.64	1.47
NVNT	BLE 2M	2480	Ant4	54.4	2.64	1.47



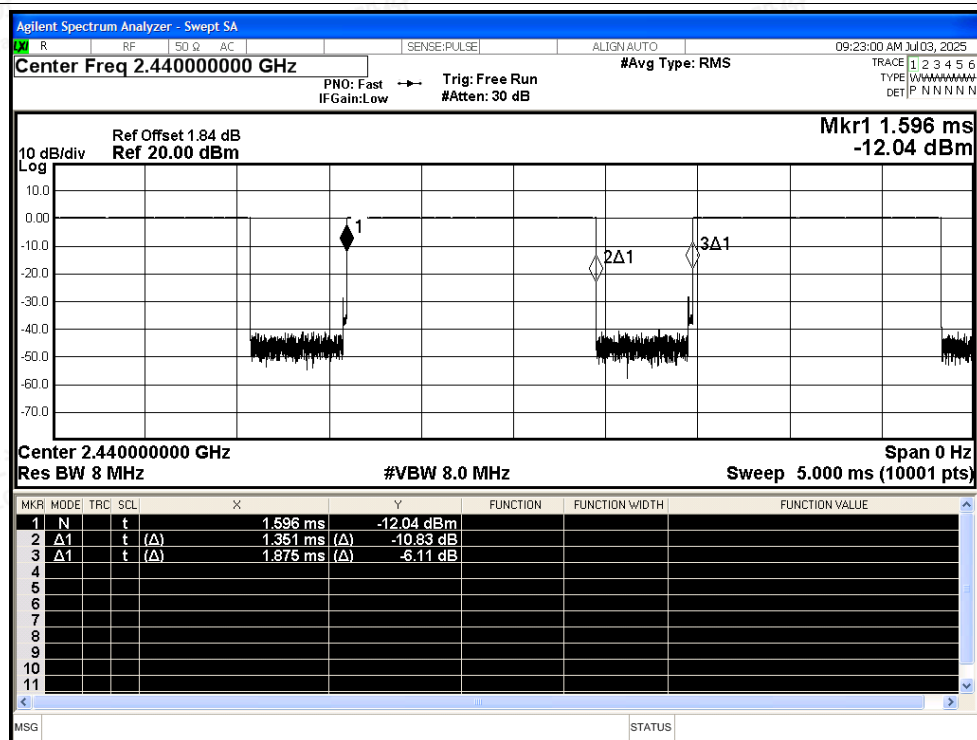


Test Graphs

Duty Cycle NVNT BLE 1M 2402MHz Ant4



Duty Cycle NVNT BLE 1M 2440MHz Ant4



Shenzhen LCS Compliance Testing Laboratory Ltd.

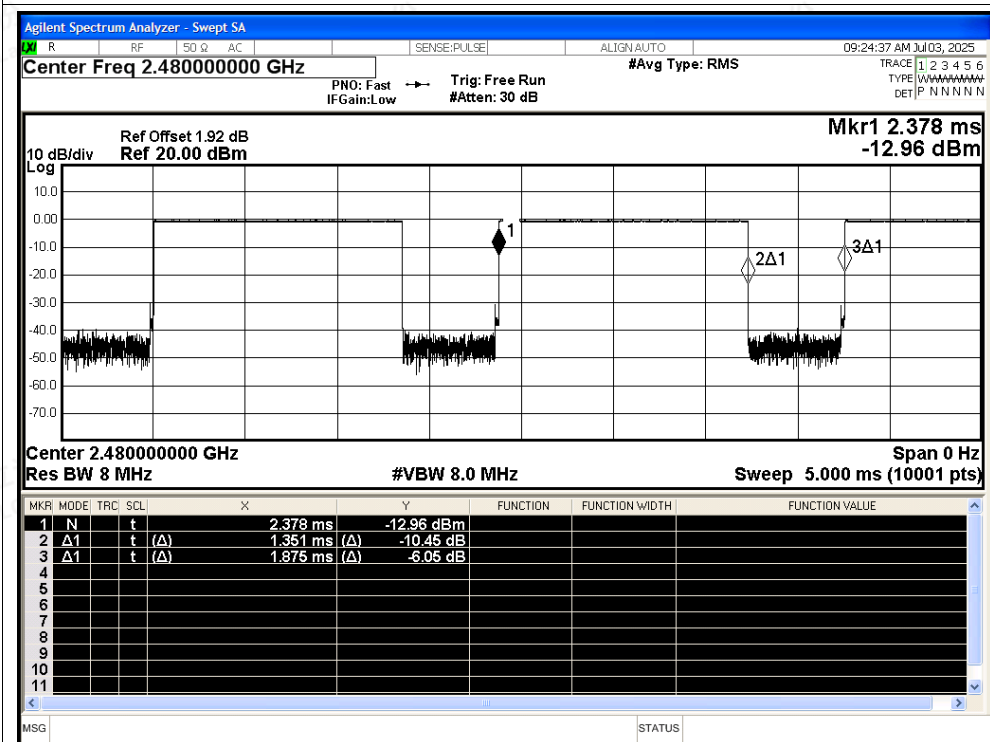
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

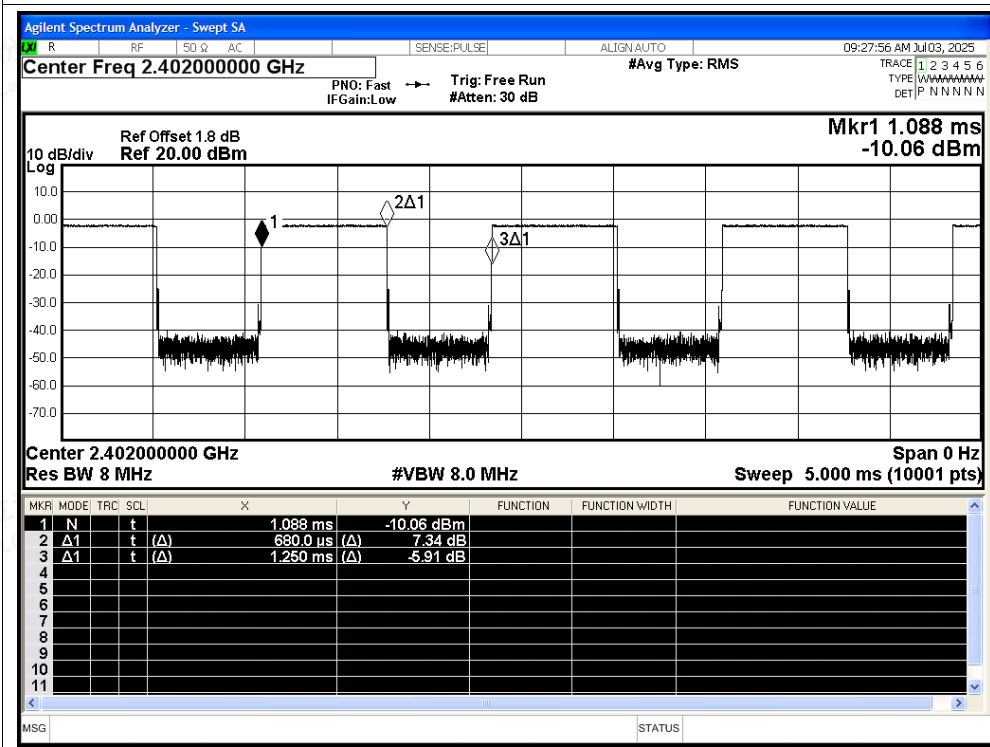
Scan code to check authenticity



Duty Cycle NVNT BLE 1M 2480MHz Ant4



Duty Cycle NVNT BLE 2M 2402MHz Ant4



Shenzhen LCS Compliance Testing Laboratory Ltd.

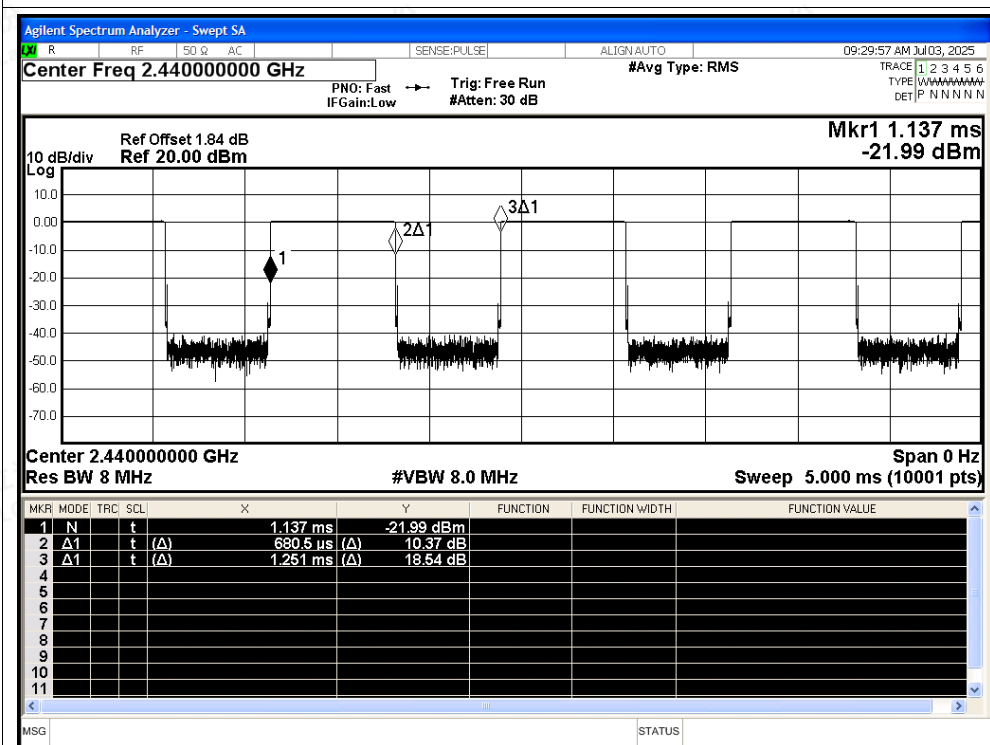
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

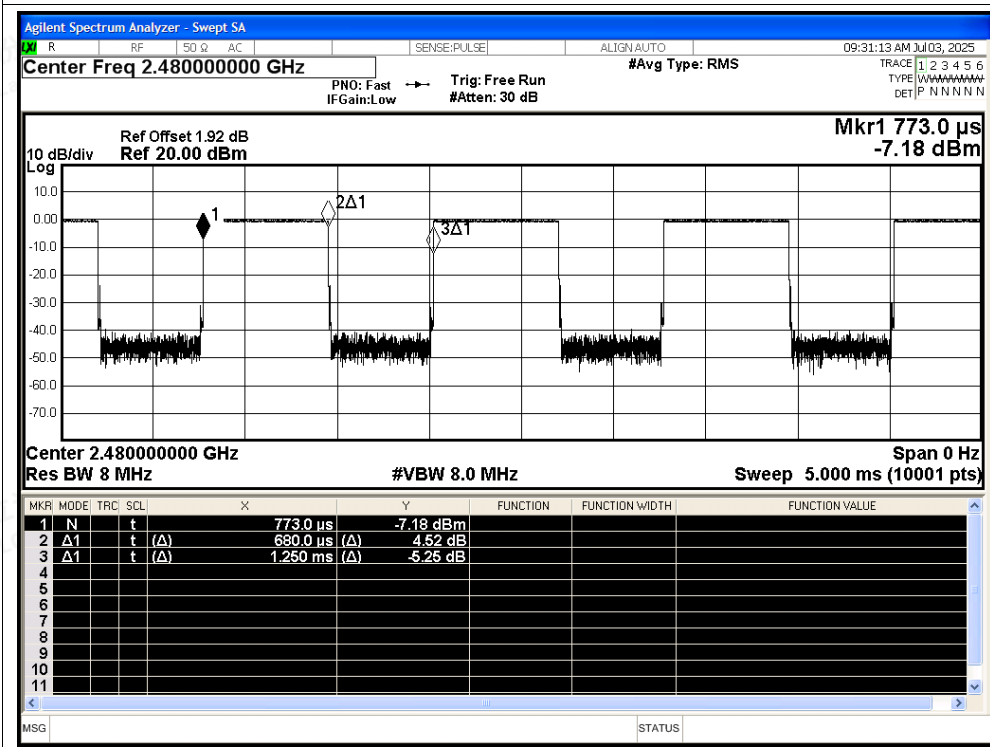
Scan code to check authenticity



Duty Cycle NVNT BLE 2M 2440MHz Ant4



Duty Cycle NVNT BLE 2M 2480MHz Ant4



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



B.7 Restrict Band

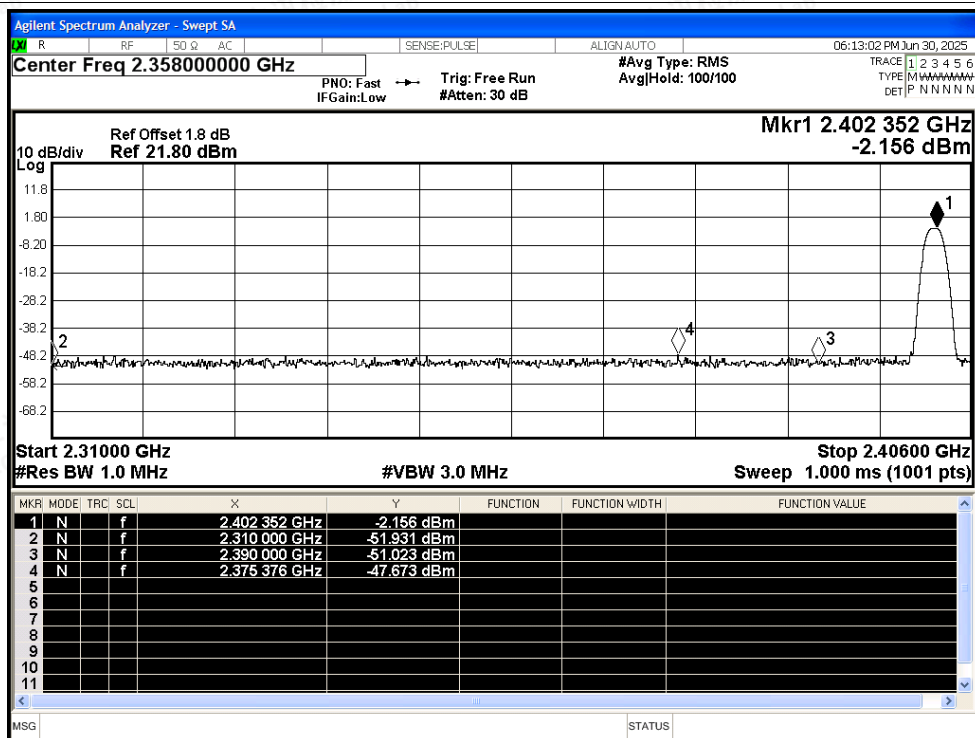
Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	BLE 1M	2402	Ant1	2310	-51.93	2.28	-	45.61	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2310	-58.84	2.28	1.42	40.12	Average	54	Pass
NVNT	BLE 1M	2402	Ant1	2375.376	-47.67	2.28	-	49.87	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2388.912	-58.34	2.28	1.42	40.62	Average	54	Pass
NVNT	BLE 1M	2402	Ant1	2390	-51.02	2.28	-	46.52	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2390	-58.71	2.28	1.42	40.25	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2483.5	-49.21	2.28	-	48.33	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2483.5	-57.81	2.28	1.42	41.15	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2485.432	-44.96	2.28	-	52.58	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2483.848	-57.69	2.28	1.42	41.27	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2500	-50.1	2.28	-	47.44	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2500	-58.08	2.28	1.42	40.88	Average	54	Pass
NVNT	BLE 2M	2402	Ant1	2310	-52.29	2.28	-	45.25	Peak	74	Pass
NVNT	BLE 2M	2402	Ant1	2310	-59.31	2.28	2.65	40.88	Average	54	Pass
NVNT	BLE 2M	2402	Ant1	2312.496	-47.49	2.28	-	50.05	Peak	74	Pass
NVNT	BLE 2M	2402	Ant1	2372.016	-57.62	2.28	2.65	42.57	Average	54	Pass
NVNT	BLE 2M	2402	Ant1	2390	-50.15	2.28	-	47.39	Peak	74	Pass
NVNT	BLE 2M	2402	Ant1	2390	-58.53	2.28	2.65	41.66	Average	54	Pass
NVNT	BLE 2M	2480	Ant1	2483.5	-49.11	2.28	-	48.43	Peak	74	Pass
NVNT	BLE 2M	2480	Ant1	2483.5	-57.83	2.28	2.64	42.35	Average	54	Pass
NVNT	BLE 2M	2480	Ant1	2485.96	-44.68	2.28	-	52.86	Peak	74	Pass
NVNT	BLE 2M	2480	Ant1	2490.76	-57.21	2.28	2.64	42.97	Average	54	Pass
NVNT	BLE 2M	2480	Ant1	2500	-49.72	2.28	-	47.82	Peak	74	Pass
NVNT	BLE 2M	2480	Ant1	2500	-57.88	2.28	2.64	42.30	Average	54	Pass



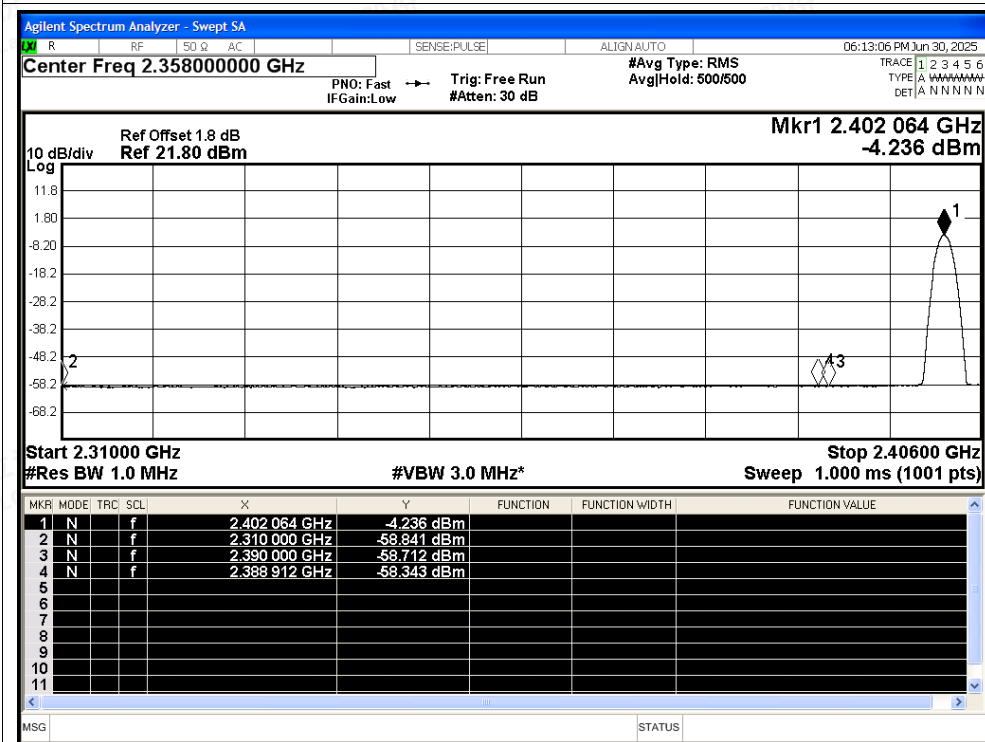


Test Graphs

Restrict Band NVNT BLE 1M 2402MHz Ant1 Peak



Restrict Band NVNT BLE 1M 2402MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

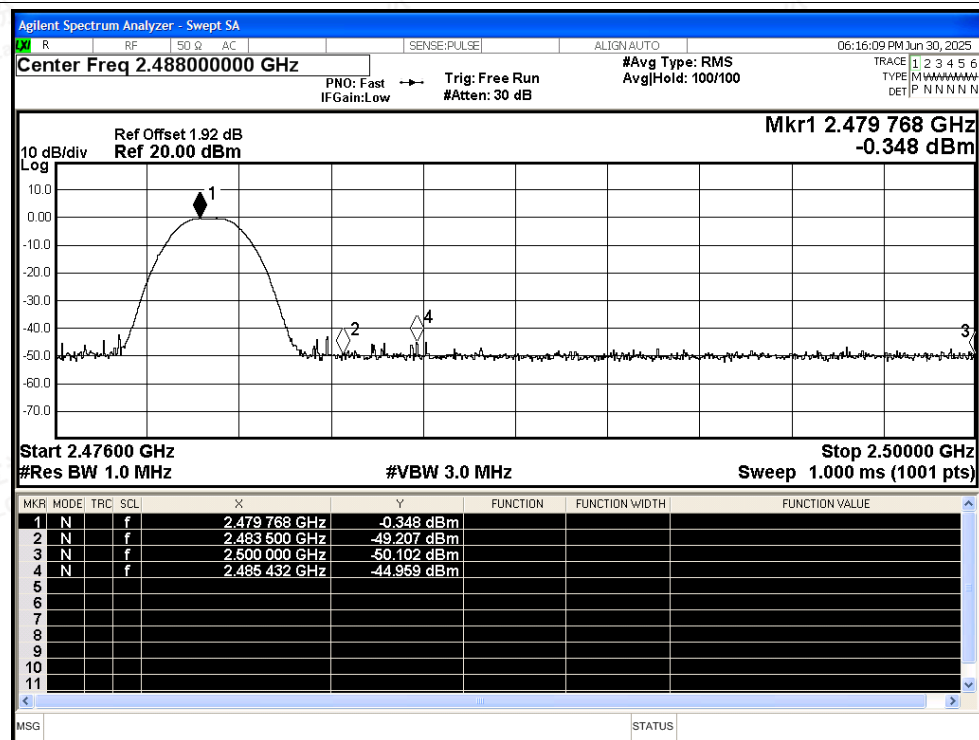
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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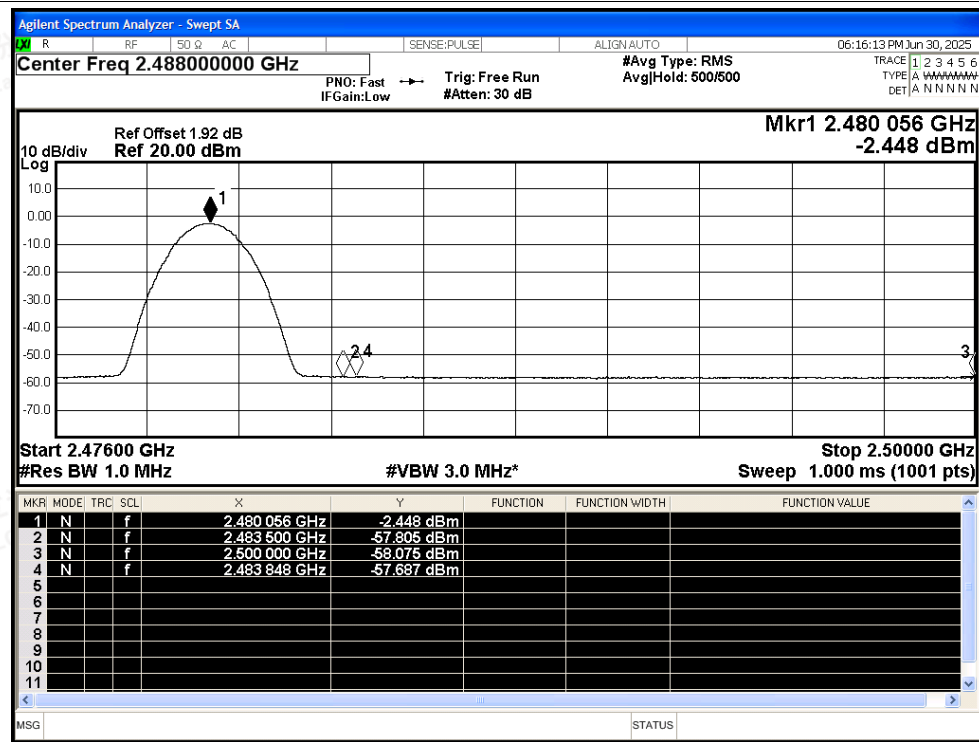
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Restrict Band NVNT BLE 1M 2480MHz Ant1 Peak



Restrict Band NVNT BLE 1M 2480MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

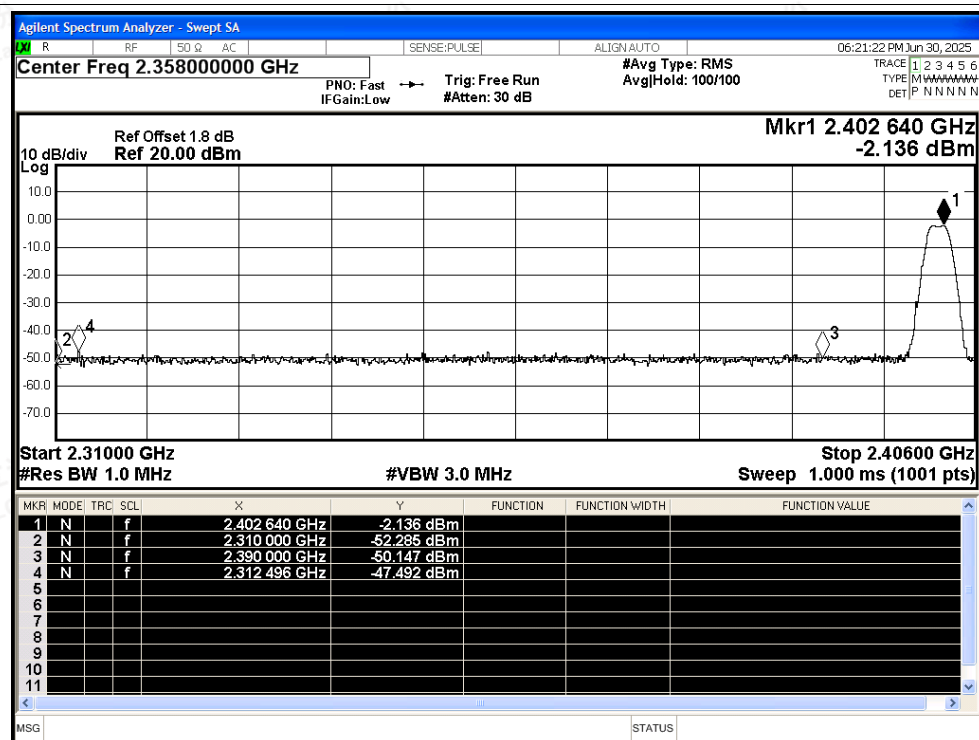
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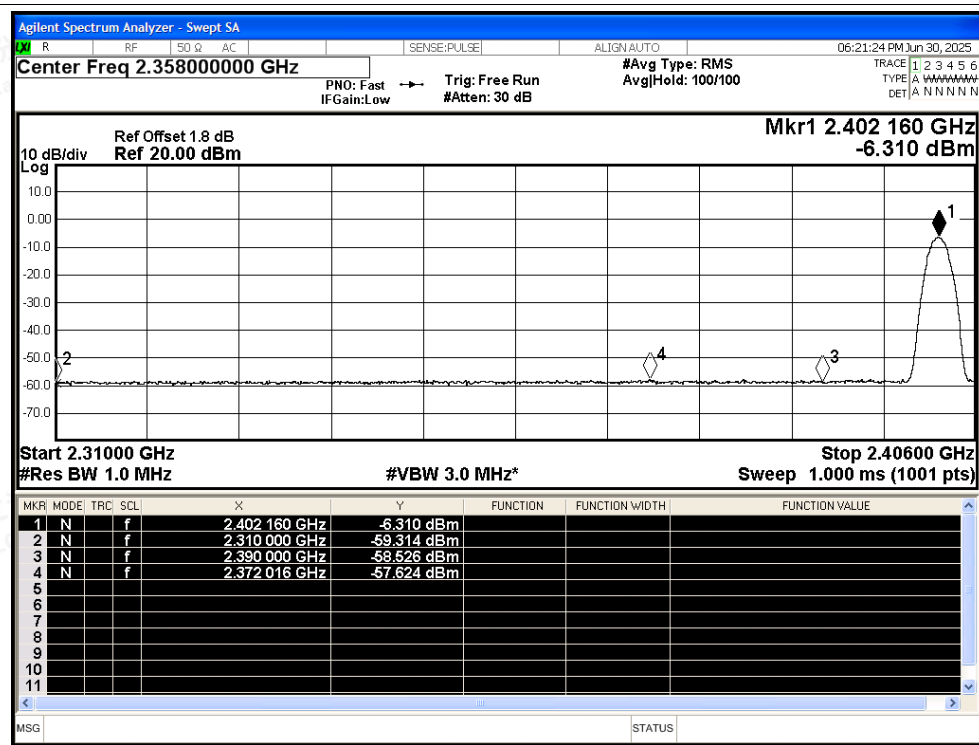
Scan code to check authenticity



Restrict Band NVNT BLE 2M 2402MHz Ant1 Peak

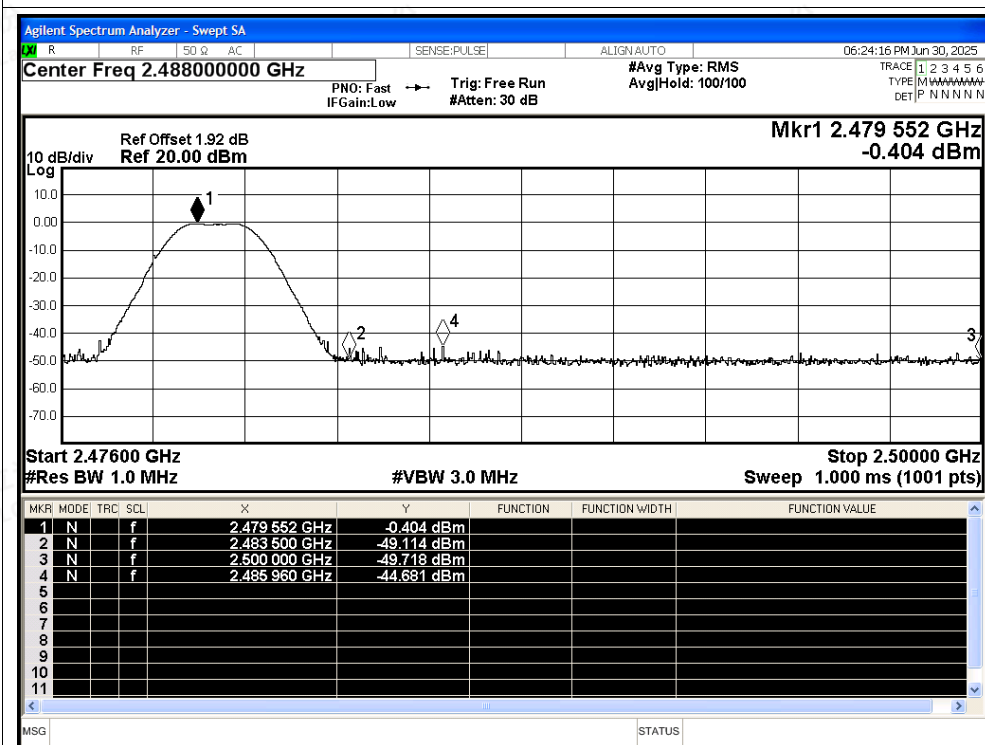


Restrict Band NVNT BLE 2M 2402MHz Ant1 Average

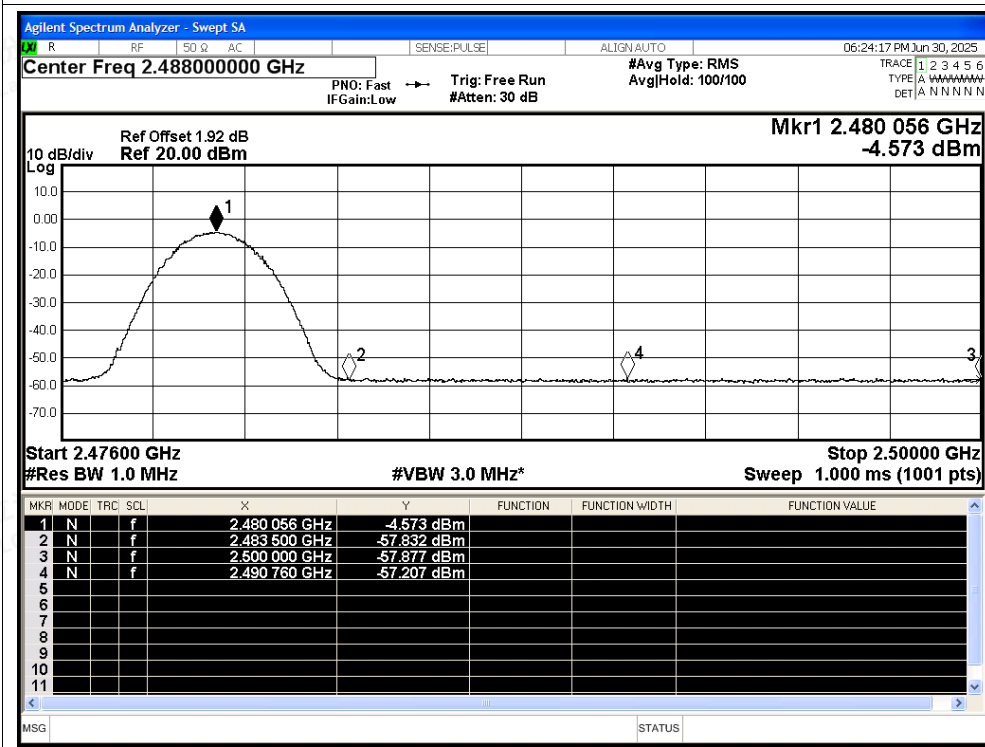




Restrict Band NVNT BLE 2M 2480MHz Ant1 Peak



Restrict Band NVNT BLE 2M 2480MHz Ant1 Average



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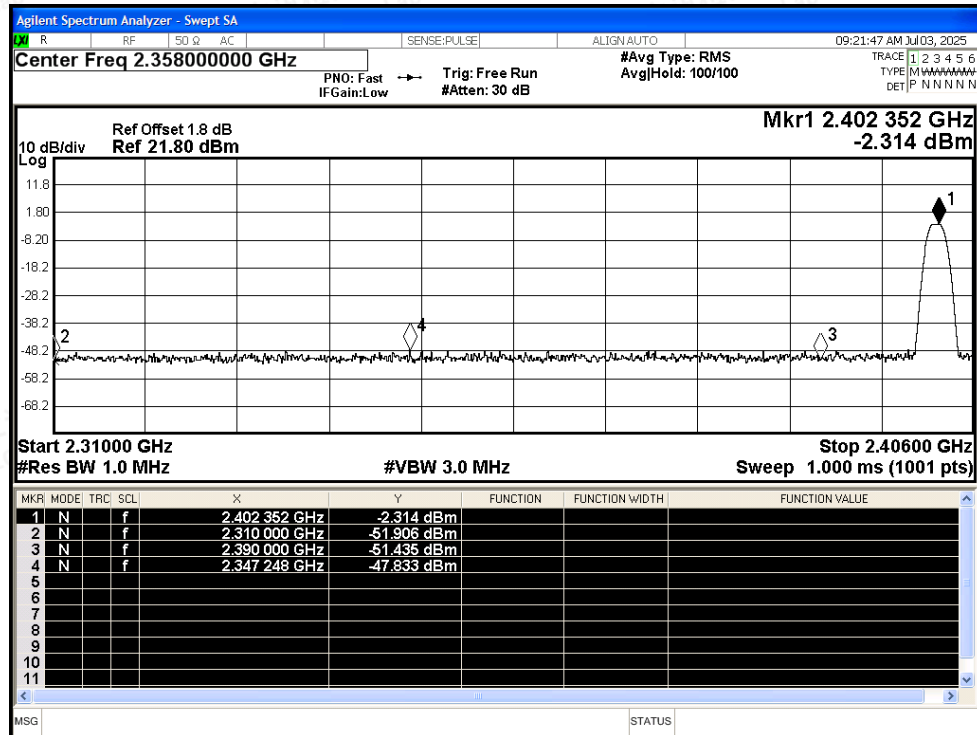
Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	BLE 1M	2402	Ant4	2310	-51.91	2	-	45.35	Peak	74	Pass
NVNT	BLE 1M	2402	Ant4	2310	-58.8	2	1.43	39.89	Average	54	Pass
NVNT	BLE 1M	2402	Ant4	2347.248	-47.83	2	-	49.43	Peak	74	Pass
NVNT	BLE 1M	2402	Ant4	2384.304	-58.28	2	1.43	40.41	Average	54	Pass
NVNT	BLE 1M	2402	Ant4	2390	-51.44	2	-	45.82	Peak	74	Pass
NVNT	BLE 1M	2402	Ant4	2390	-58.6	2	1.43	40.09	Average	54	Pass
NVNT	BLE 1M	2480	Ant4	2483.5	-50.68	2	-	46.58	Peak	74	Pass
NVNT	BLE 1M	2480	Ant4	2483.5	-57.91	2	1.42	40.77	Average	54	Pass
NVNT	BLE 1M	2480	Ant4	2484.568	-44.76	2	-	52.5	Peak	74	Pass
NVNT	BLE 1M	2480	Ant4	2483.584	-57.77	2	1.42	40.91	Average	54	Pass
NVNT	BLE 1M	2480	Ant4	2500	-49.79	2	-	47.47	Peak	74	Pass
NVNT	BLE 1M	2480	Ant4	2500	-58.21	2	1.42	40.47	Average	54	Pass
NVNT	BLE 2M	2402	Ant4	2310	-51.47	2	-	45.79	Peak	74	Pass
NVNT	BLE 2M	2402	Ant4	2310	-58.74	2	2.64	41.16	Average	54	Pass
NVNT	BLE 2M	2402	Ant4	2386.32	-47.63	2	-	49.63	Peak	74	Pass
NVNT	BLE 2M	2402	Ant4	2375.76	-57.91	2	2.64	41.99	Average	54	Pass
NVNT	BLE 2M	2402	Ant4	2390	-50.03	2	-	47.23	Peak	74	Pass
NVNT	BLE 2M	2402	Ant4	2390	-58.67	2	2.64	41.23	Average	54	Pass
NVNT	BLE 2M	2480	Ant4	2483.5	-49.43	2	-	47.83	Peak	74	Pass
NVNT	BLE 2M	2480	Ant4	2483.5	-58.28	2	2.64	41.62	Average	54	Pass
NVNT	BLE 2M	2480	Ant4	2484.592	-45.28	2	-	51.98	Peak	74	Pass
NVNT	BLE 2M	2480	Ant4	2487.112	-57.35	2	2.64	42.55	Average	54	Pass
NVNT	BLE 2M	2480	Ant4	2500	-48.6	2	-	48.66	Peak	74	Pass
NVNT	BLE 2M	2480	Ant4	2500	-57.92	2	2.64	41.98	Average	54	Pass



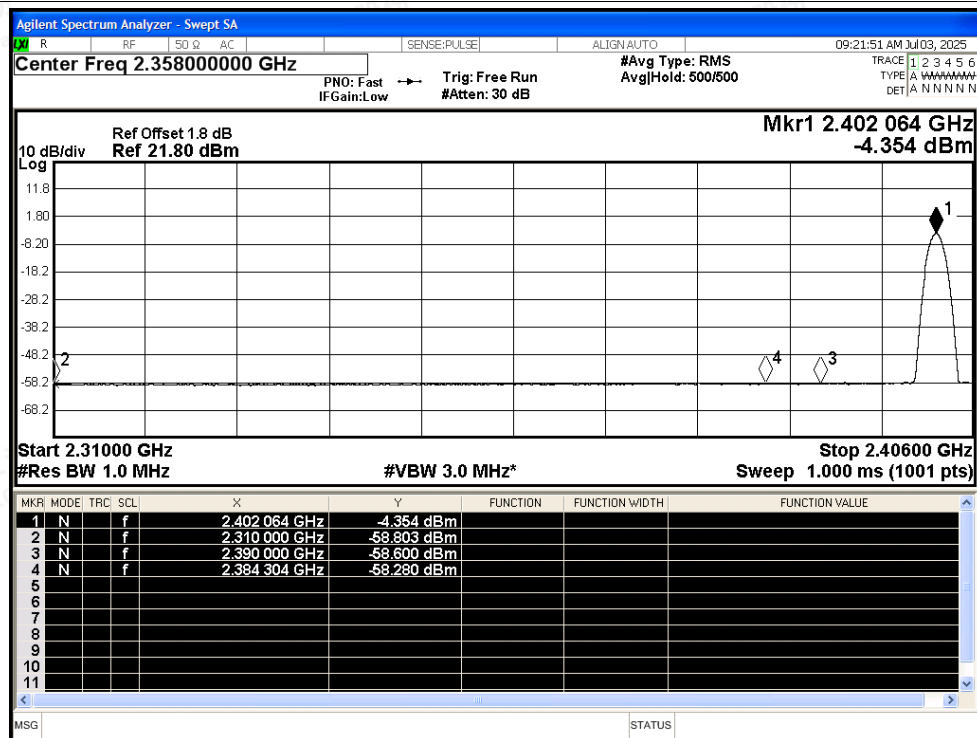


Test Graphs

Restrict Band NVNT BLE 1M 2402MHz Ant4 Peak



Restrict Band NVNT BLE 1M 2402MHz Ant4 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

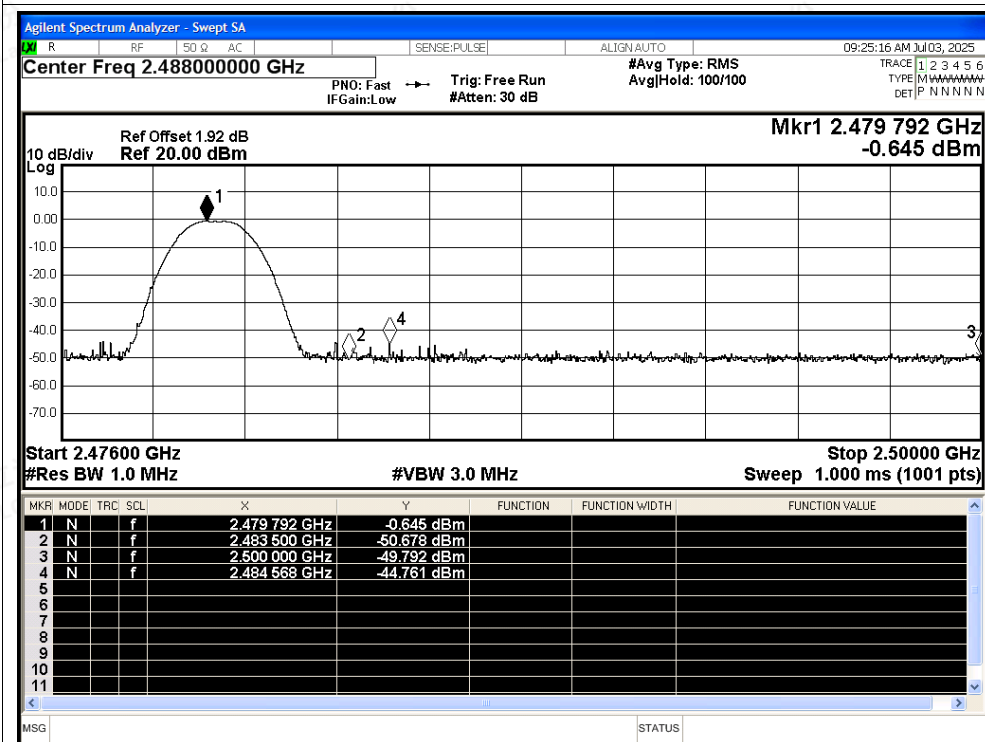
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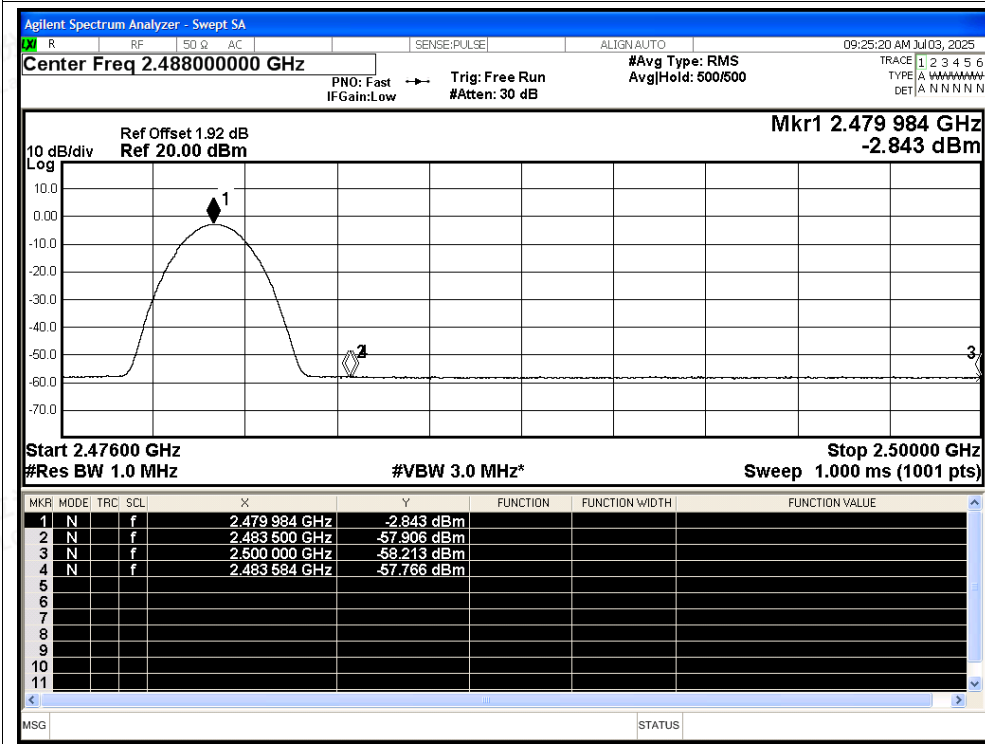
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Restrict Band NVNT BLE 1M 2480MHz Ant4 Peak



Restrict Band NVNT BLE 1M 2480MHz Ant4 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

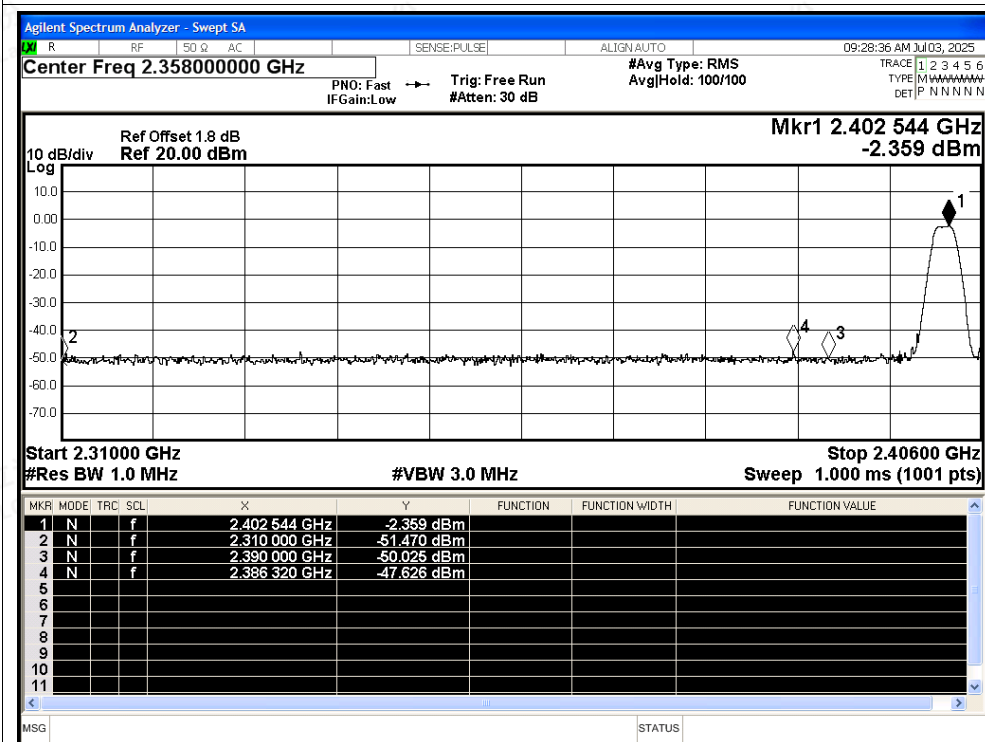
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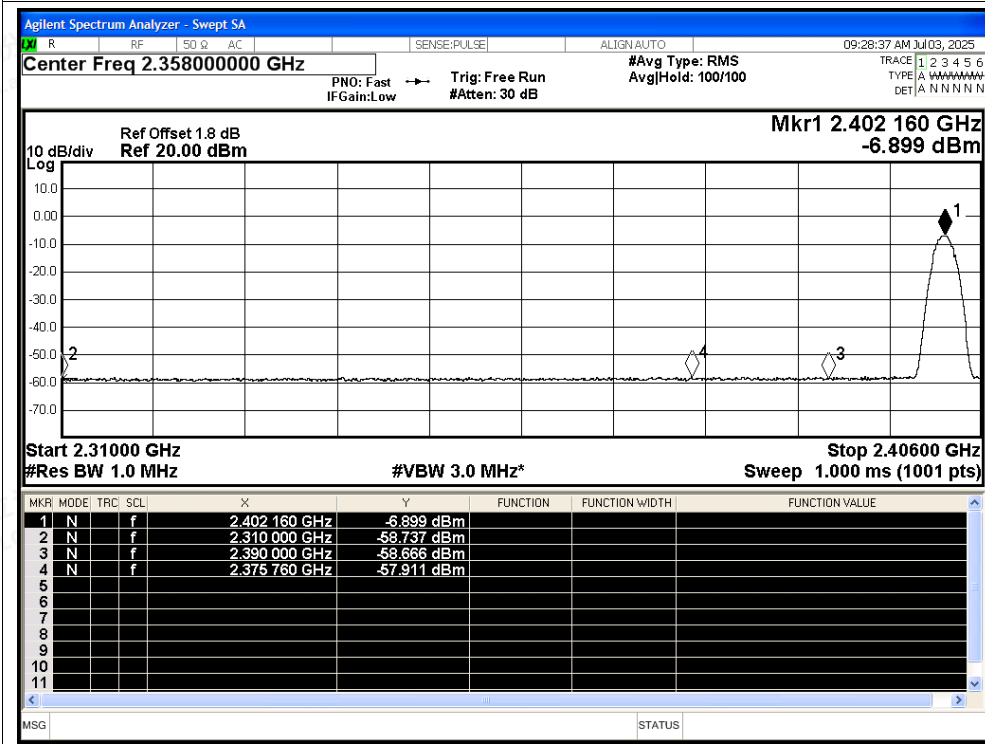
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Restrict Band NVNT BLE 2M 2402MHz Ant4 Peak



Restrict Band NVNT BLE 2M 2402MHz Ant4 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

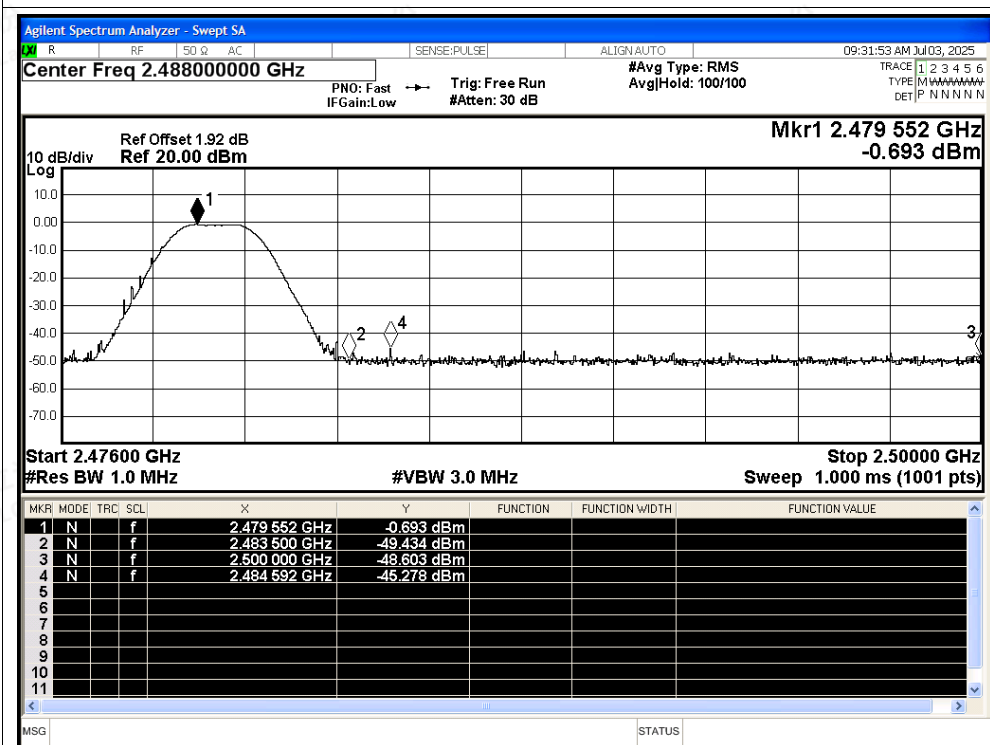
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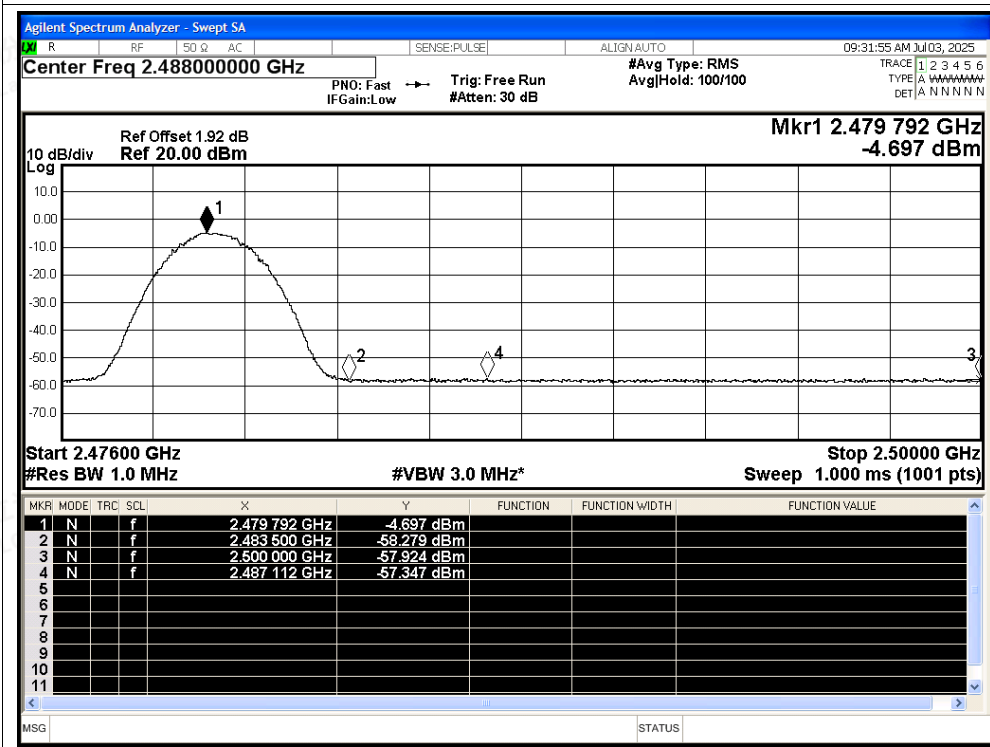
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Restrict Band NVNT BLE 2M 2480MHz Ant4 Peak



Restrict Band NVNT BLE 2M 2480MHz Ant4 Average



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