



Appendix B

RF Test Data for BT LE (Conducted Measurement)

Product Name: Smart camping screen

Test Model: Portable S

Environmental Conditions

Temperature:	23.8°C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Paddi Chen
Supervised by:	Nick Peng





B.1 -6dB Bandwidth

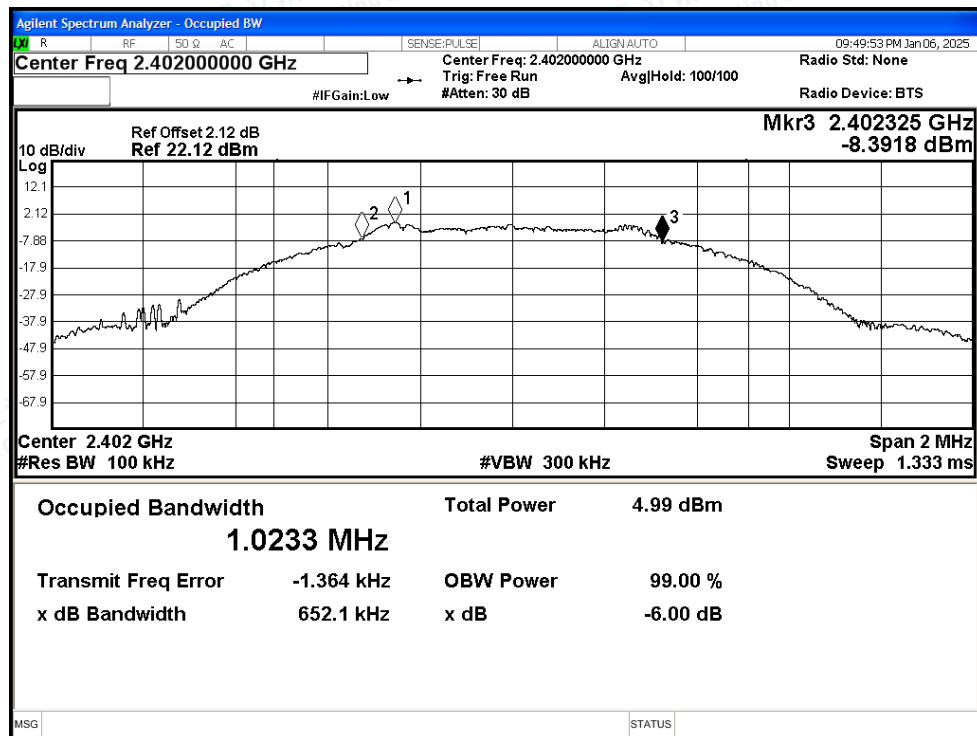
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	Ant3	0.652	>=0.5	Pass
NVNT	BLE 1M	2440	Ant3	0.648	>=0.5	Pass
NVNT	BLE 1M	2480	Ant3	0.652	>=0.5	Pass
NVNT	BLE 2M	2402	Ant3	1.118	>=0.5	Pass
NVNT	BLE 2M	2440	Ant3	1.163	>=0.5	Pass
NVNT	BLE 2M	2480	Ant3	1.167	>=0.5	Pass



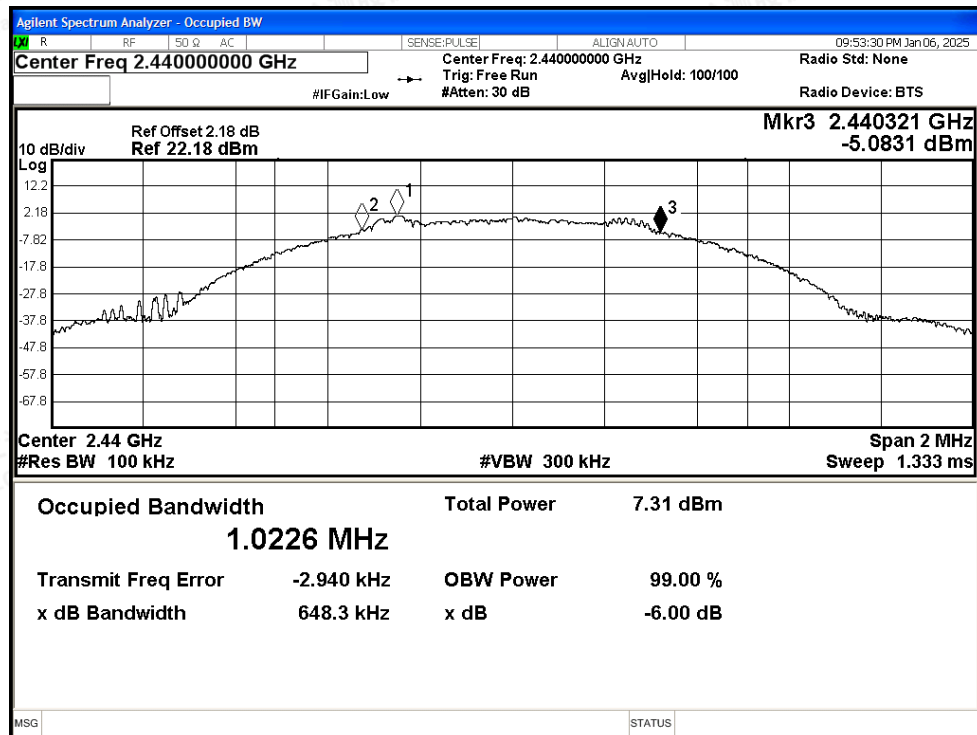


Test Graphs

-6dB Bandwidth NVNT BLE 1M 2402MHz Ant3



-6dB Bandwidth NVNT BLE 1M 2440MHz Ant3



Shenzhen LCS Compliance Testing Laboratory Ltd.

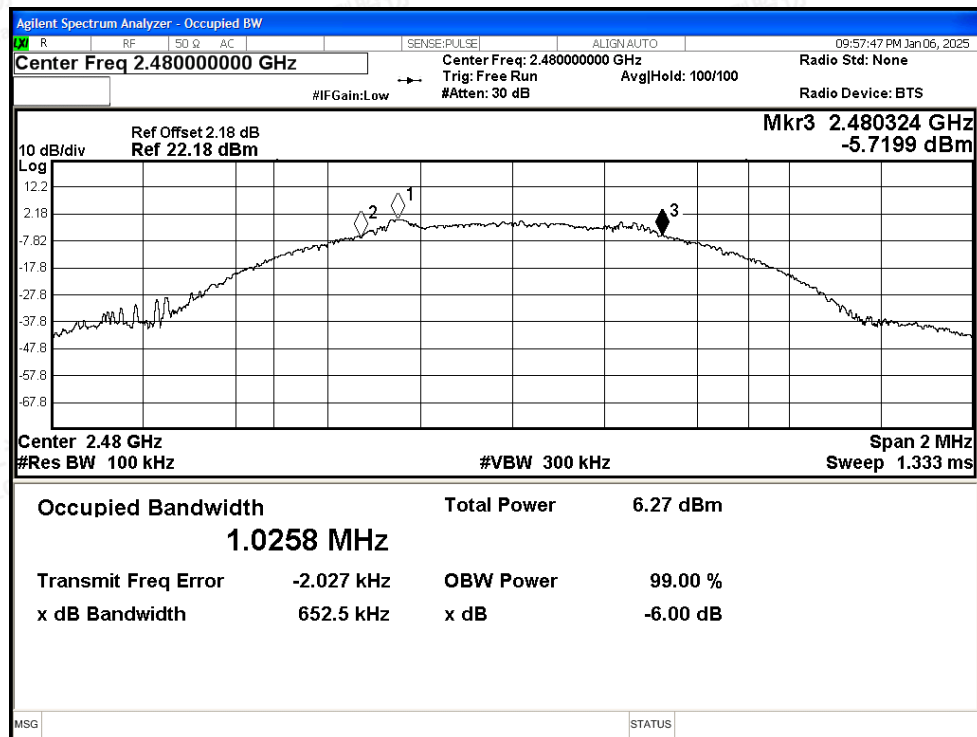
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

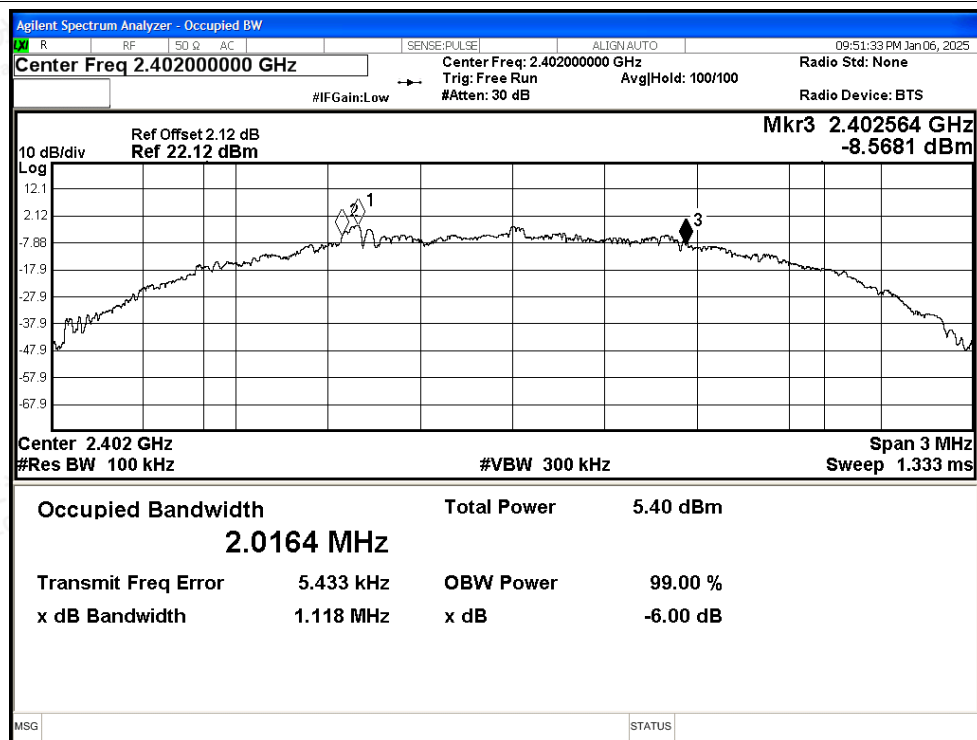
Scan code to check authenticity



-6dB Bandwidth NVNT BLE 1M 2480MHz Ant3



-6dB Bandwidth NVNT BLE 2M 2402MHz Ant3



Shenzhen LCS Compliance Testing Laboratory Ltd.

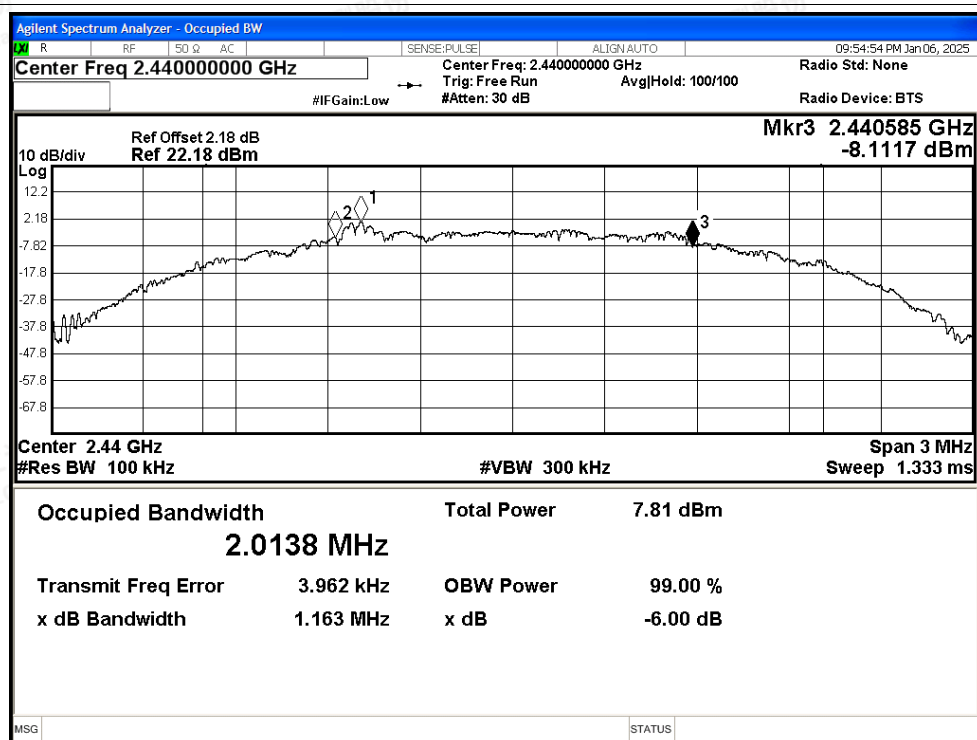
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

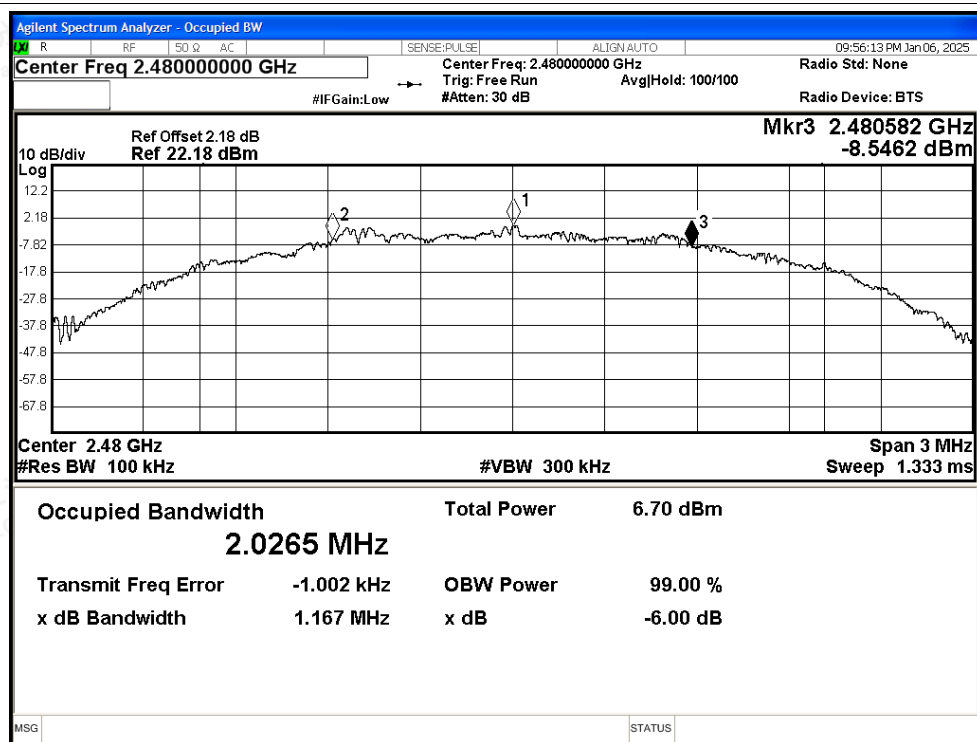
Scan code to check authenticity



-6dB Bandwidth NVNT BLE 2M 2440MHz Ant3



-6dB Bandwidth NVNT BLE 2M 2480MHz Ant3



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



B.2 Maximum Peak Conducted Output Power

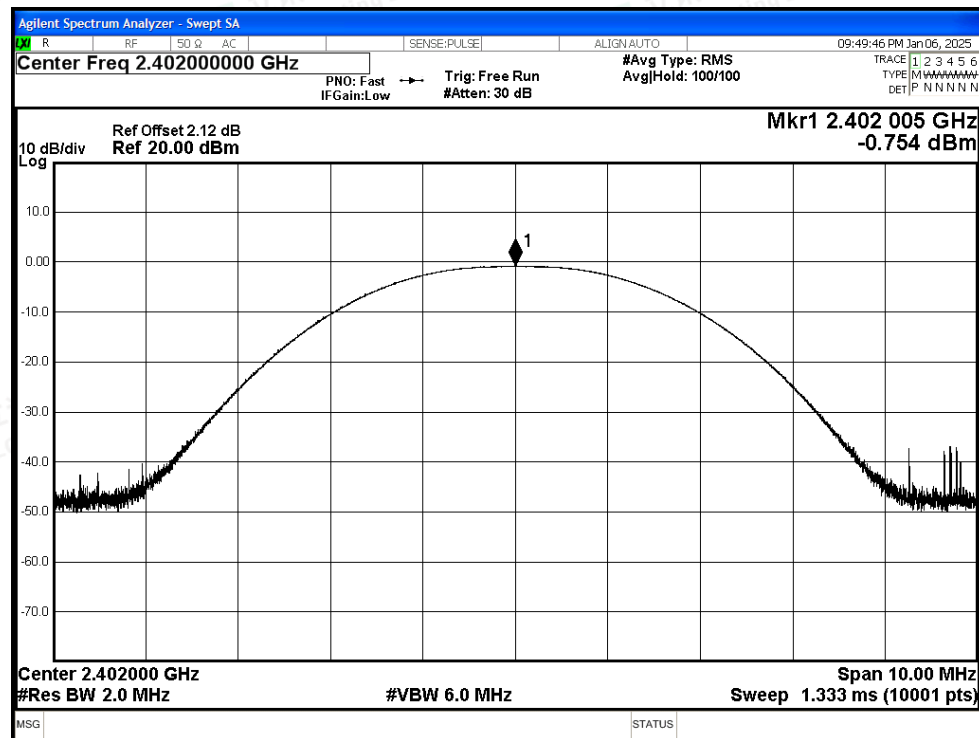
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant3	-0.75	30	Pass
NVNT	BLE 1M	2440	Ant3	1.46	30	Pass
NVNT	BLE 1M	2480	Ant3	0.5	30	Pass
NVNT	BLE 2M	2402	Ant3	-0.93	30	Pass
NVNT	BLE 2M	2440	Ant3	1.48	30	Pass
NVNT	BLE 2M	2480	Ant3	0.33	30	Pass



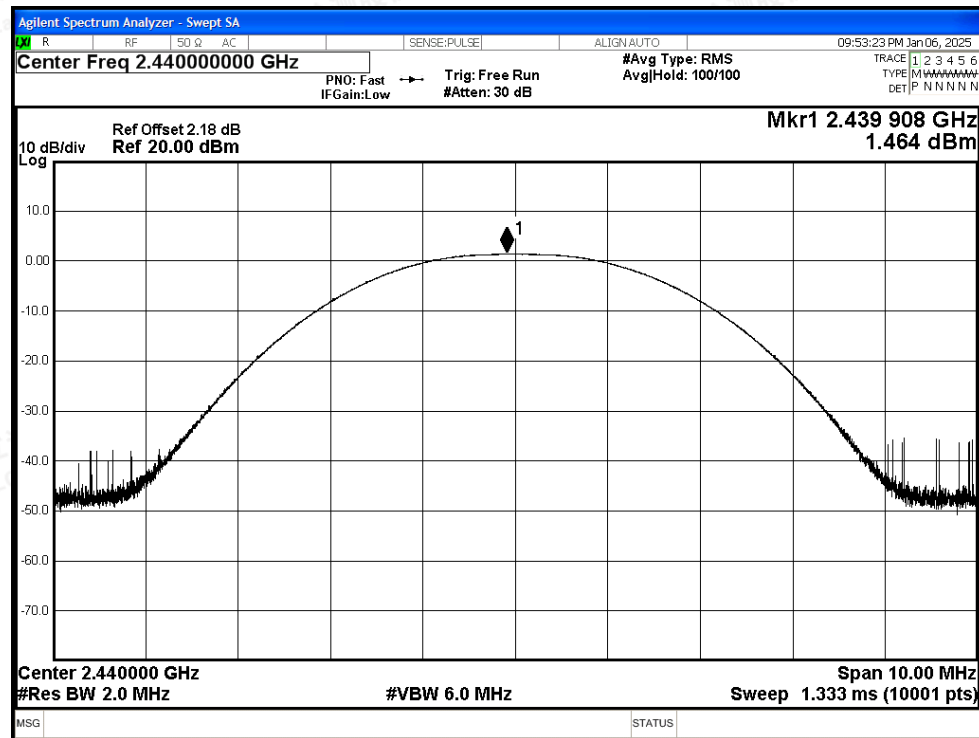


Test Graphs

Power NVNT BLE 1M 2402MHz Ant3



Power NVNT BLE 1M 2440MHz Ant3

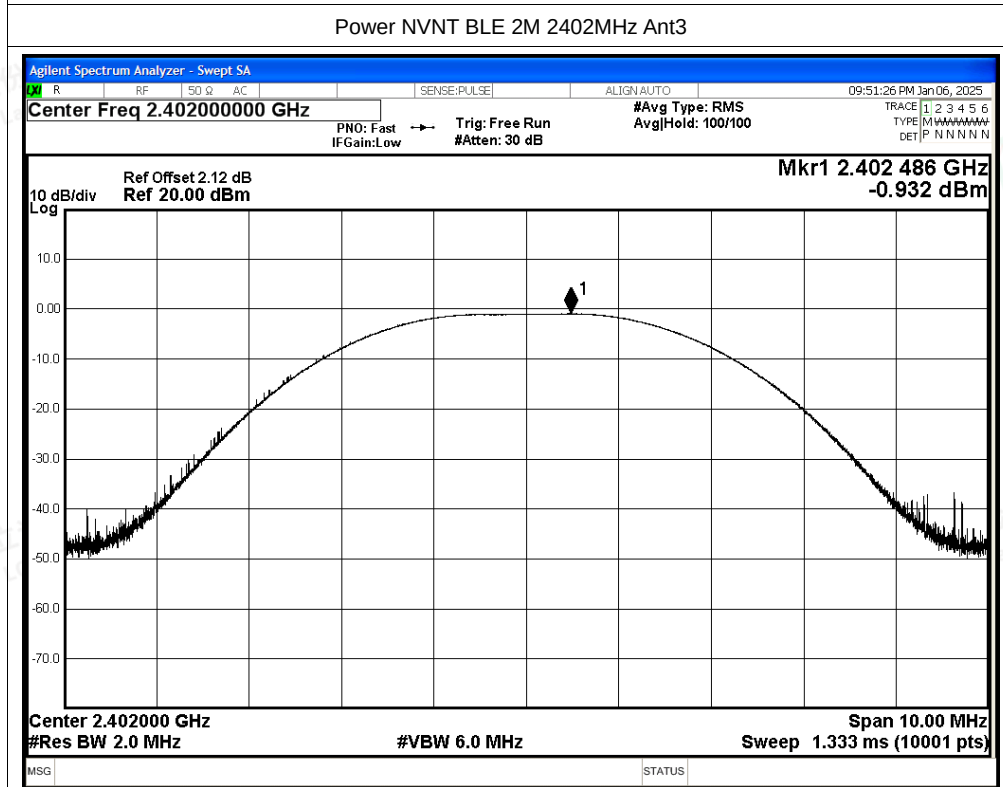
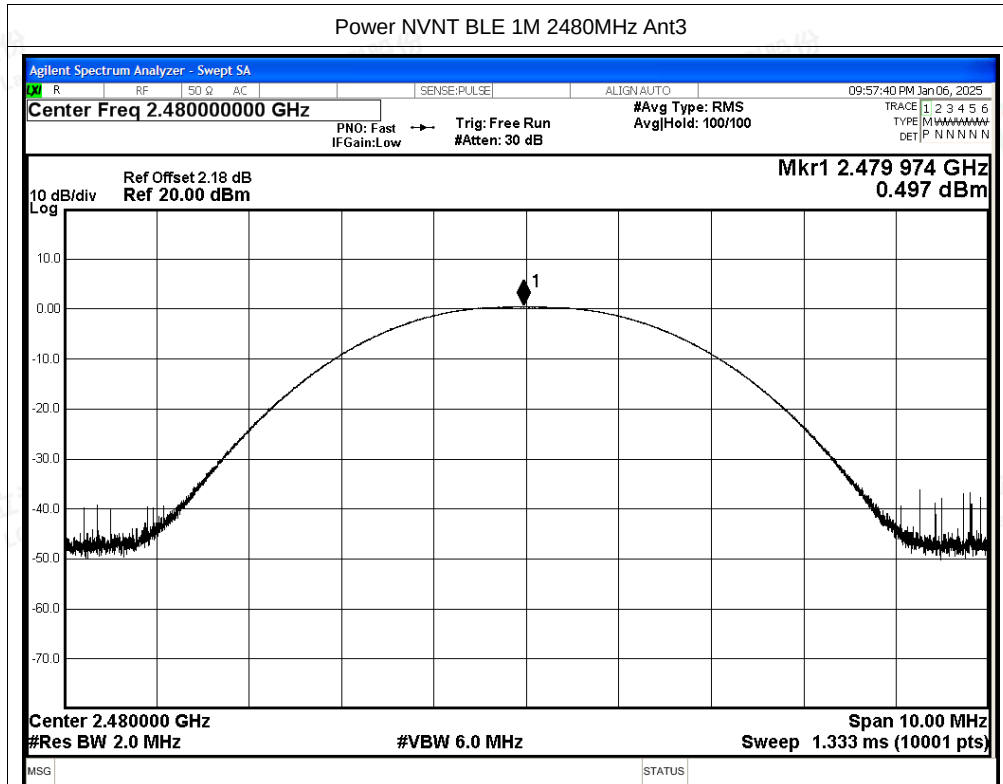


Shenzhen LCS Compliance Testing Laboratory Ltd.

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

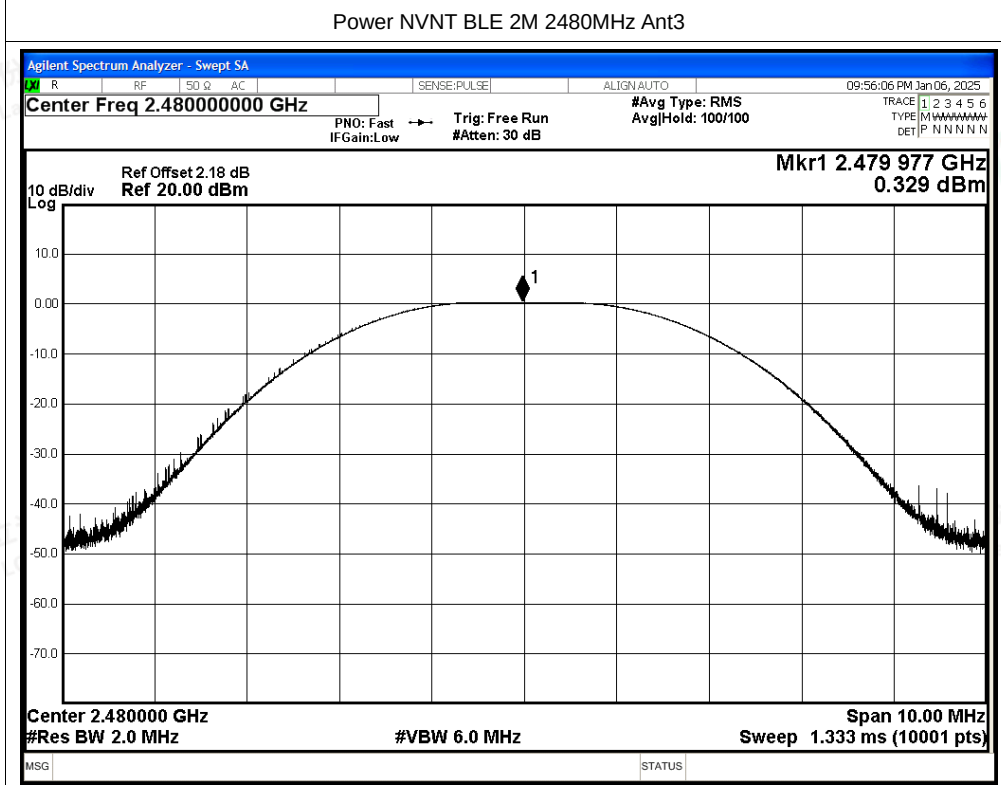
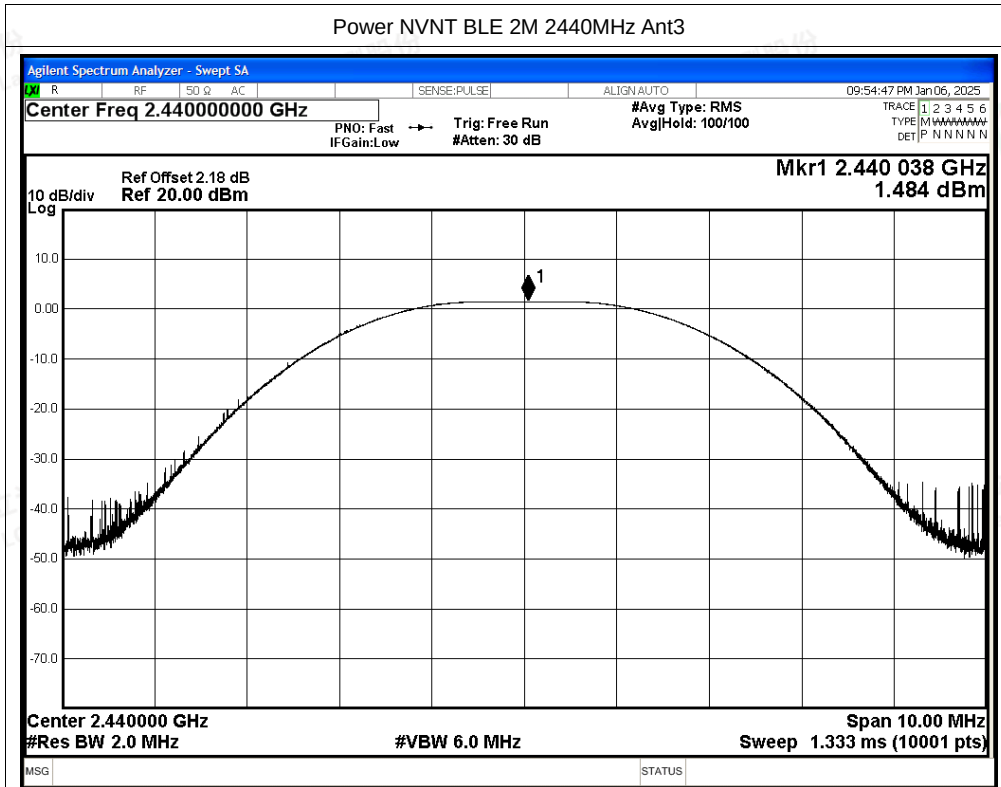


Shenzhen LCS Compliance Testing Laboratory Ltd.

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



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



B.3 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	BLE 1M	2402	Ant3	-17.43	8	Pass
NVNT	BLE 1M	2440	Ant3	-15.02	8	Pass
NVNT	BLE 1M	2480	Ant3	-16.15	8	Pass
NVNT	BLE 2M	2402	Ant3	-20.57	8	Pass
NVNT	BLE 2M	2440	Ant3	-17.93	8	Pass
NVNT	BLE 2M	2480	Ant3	-19.75	8	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

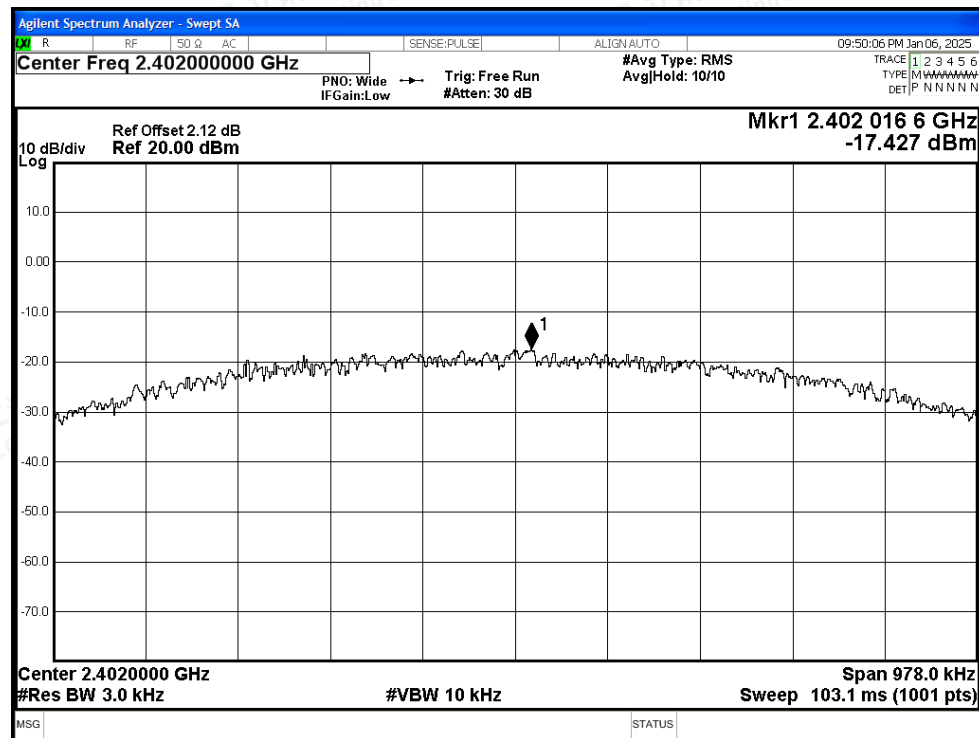
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity

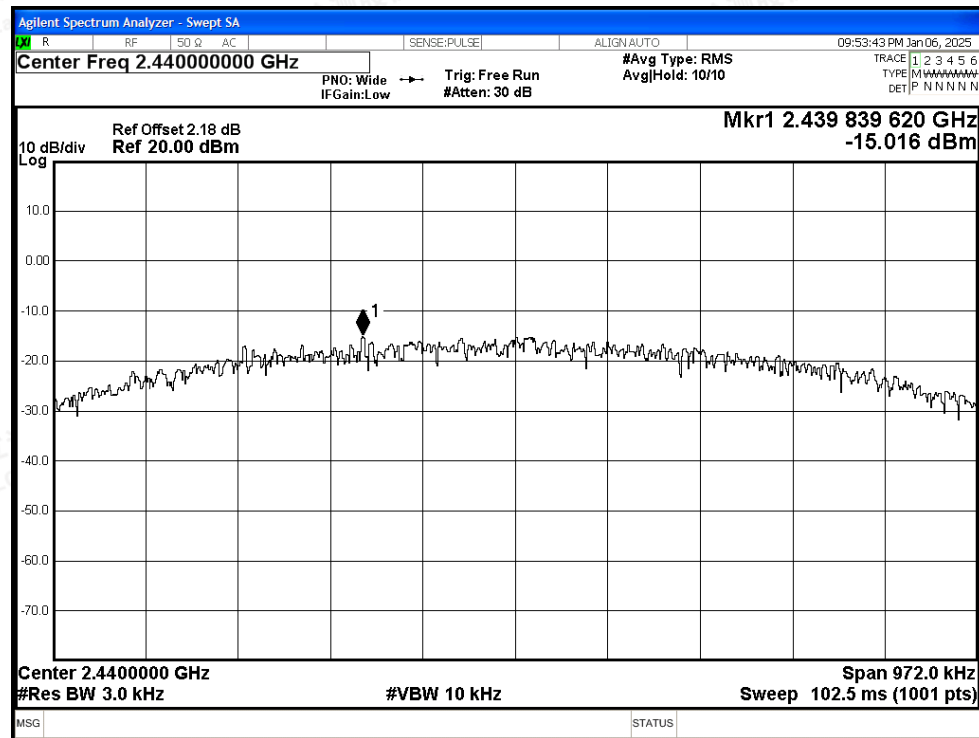


Test Graphs

PSD NVNT BLE 1M 2402MHz Ant3



PSD NVNT BLE 1M 2440MHz Ant3



Shenzhen LCS Compliance Testing Laboratory Ltd.

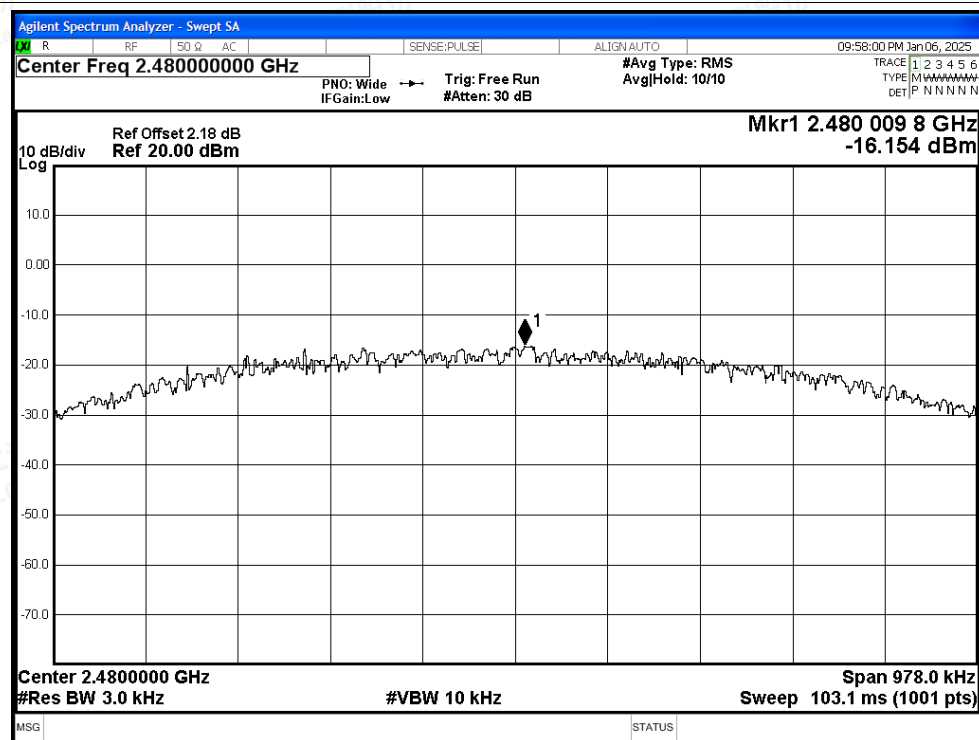
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

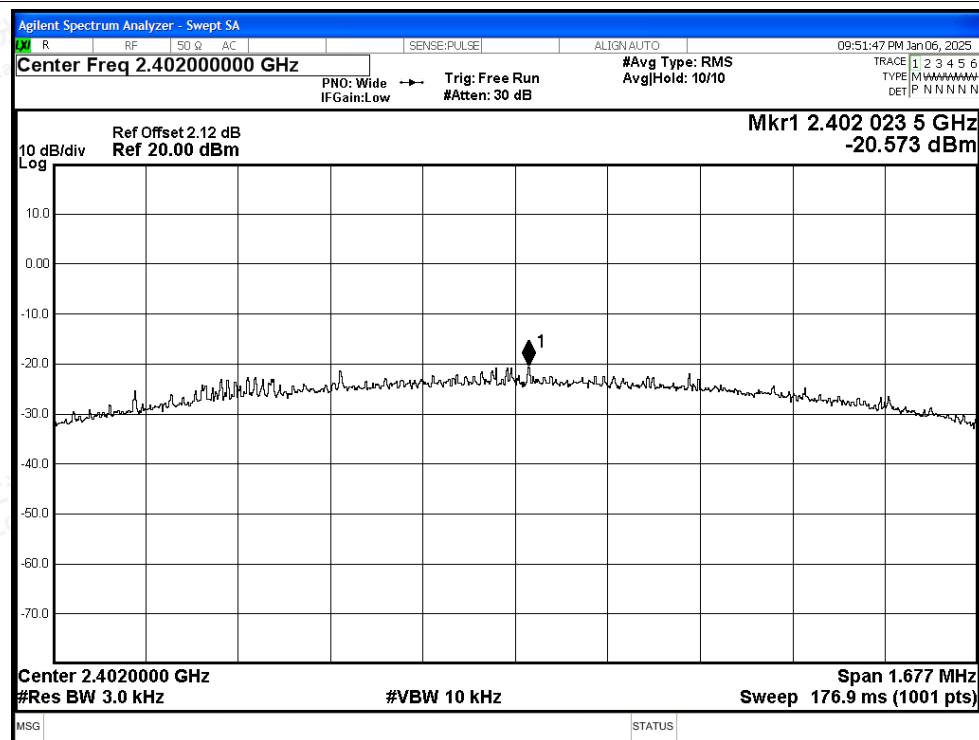
Scan code to check authenticity



PSD NVNT BLE 1M 2480MHz Ant3



PSD NVNT BLE 2M 2402MHz Ant3



Shenzhen LCS Compliance Testing Laboratory Ltd.

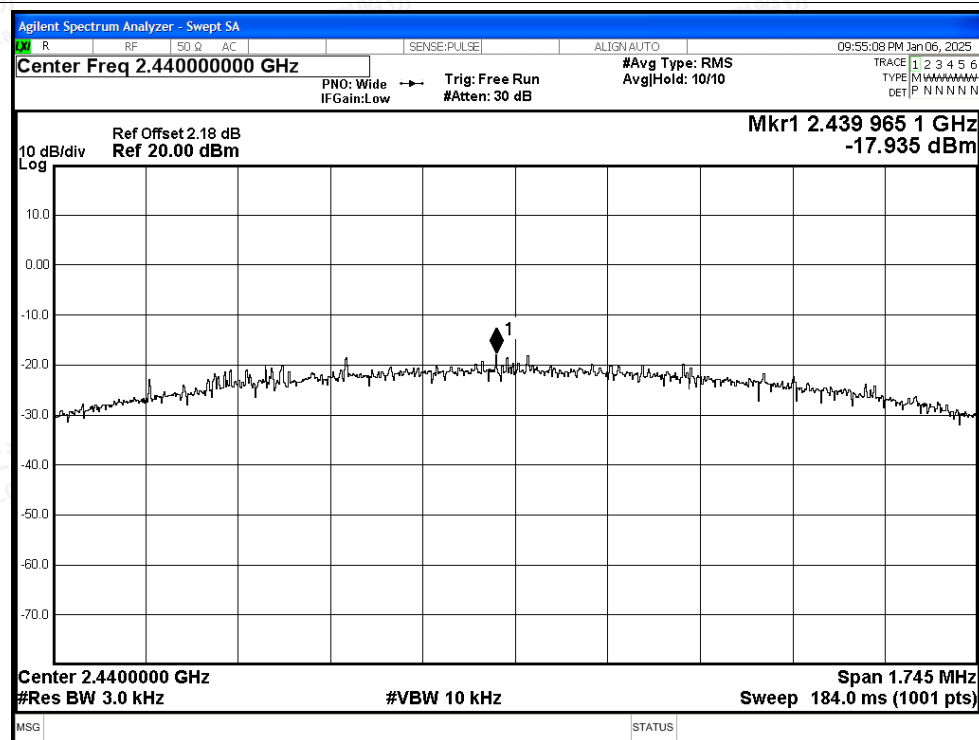
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

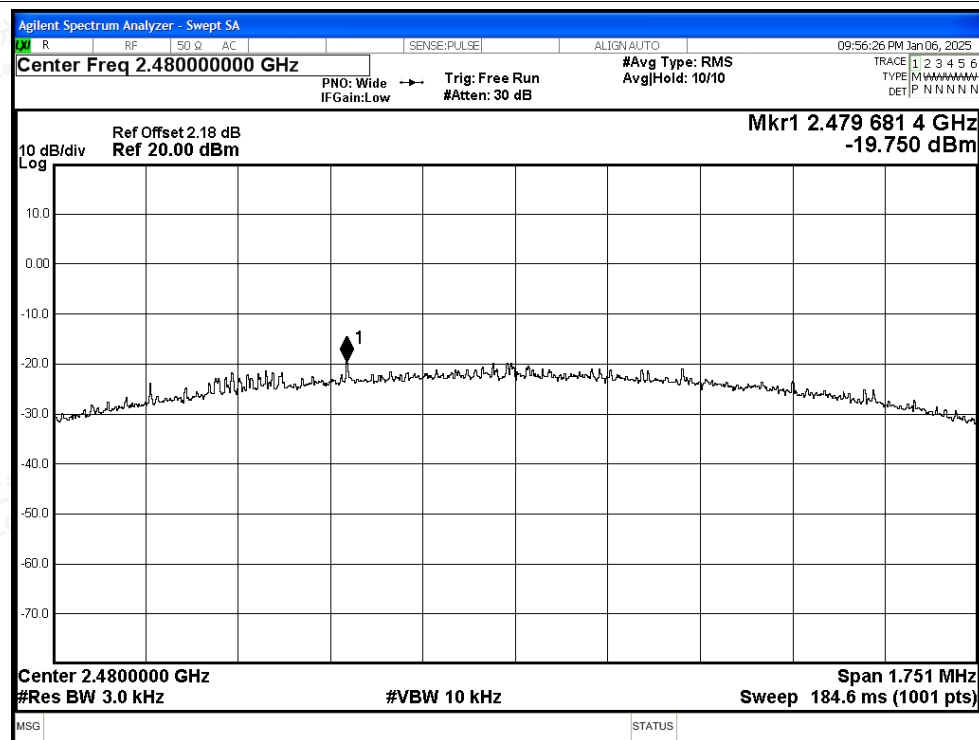
Scan code to check authenticity



PSD NVNT BLE 2M 2440MHz Ant3



PSD NVNT BLE 2M 2480MHz Ant3



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



B.4 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant3	-55.25	-20	Pass
NVNT	BLE 1M	2480	Ant3	-56.12	-20	Pass
NVNT	BLE 2M	2402	Ant3	-43.86	-20	Pass
NVNT	BLE 2M	2480	Ant3	-55.77	-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

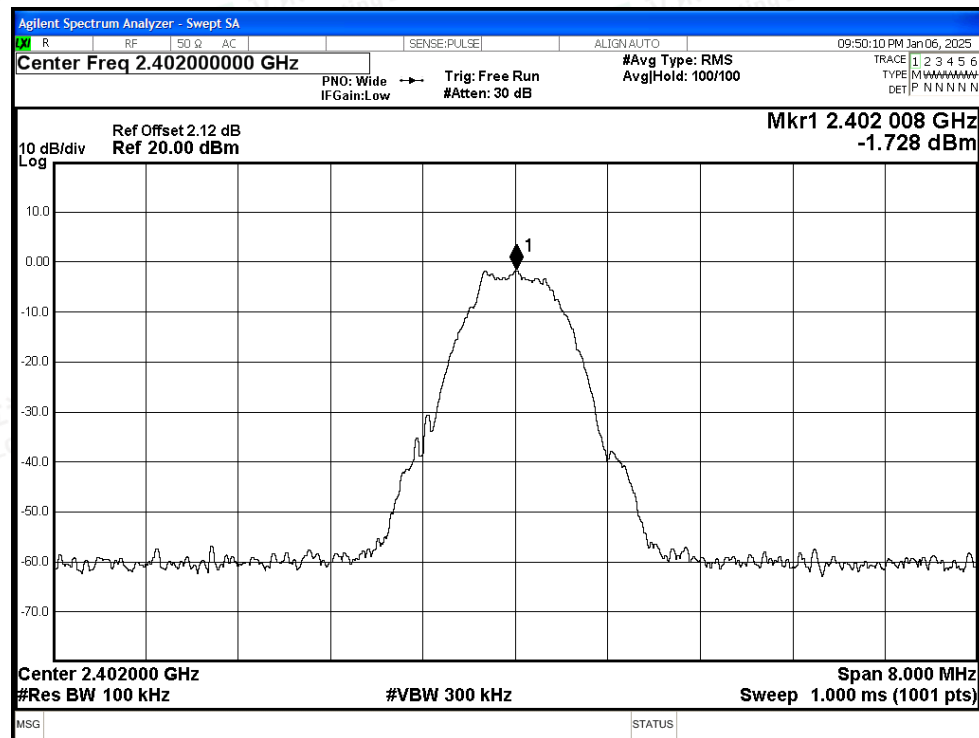
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity

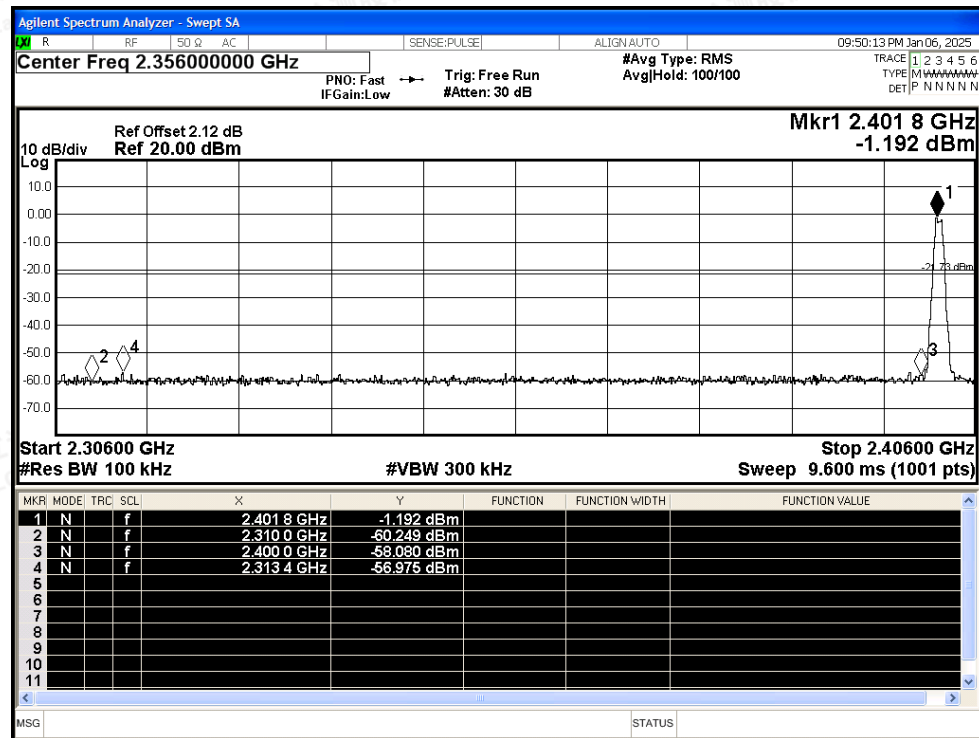


Test Graphs

Band Edge NVNT BLE 1M 2402MHz Ant3 Ref



Band Edge NVNT BLE 1M 2402MHz Ant3 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

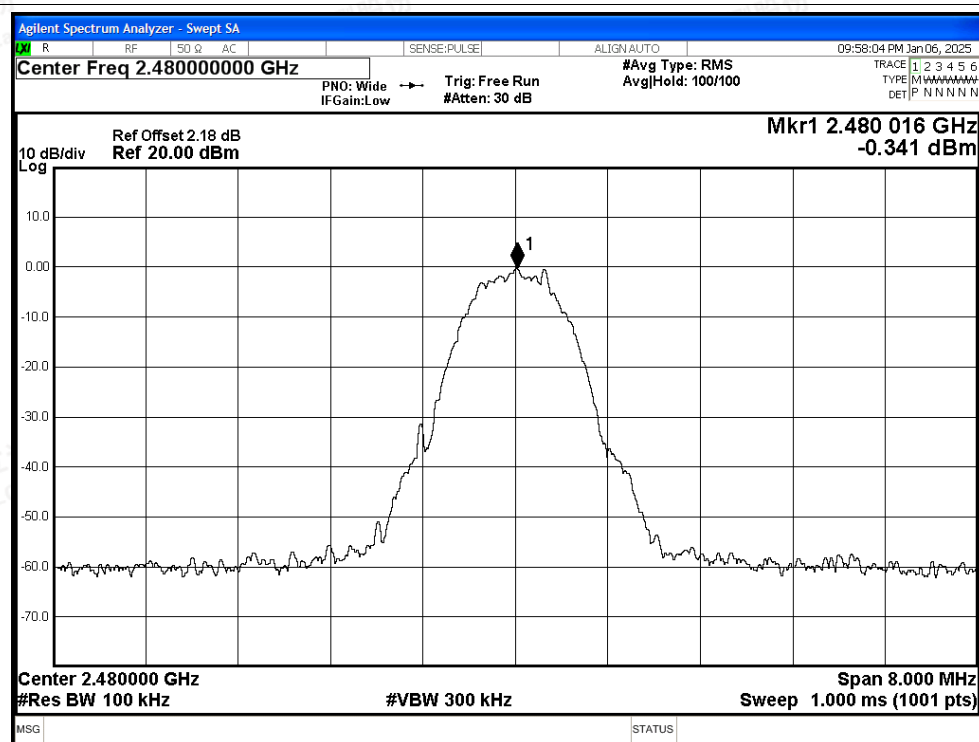
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

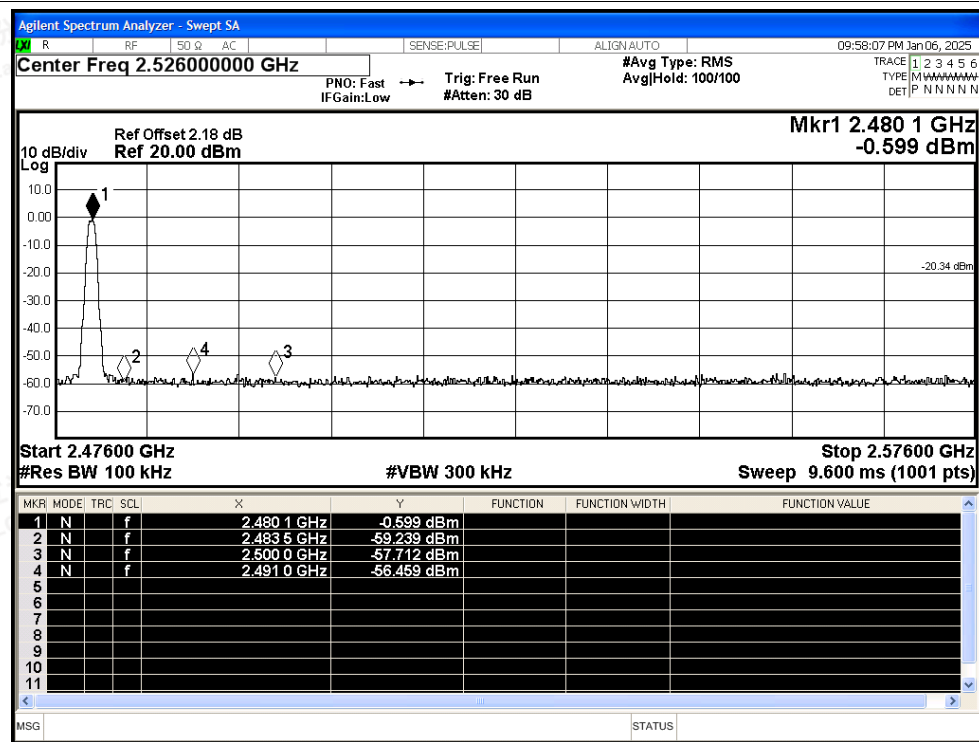
Scan code to check authenticity



Band Edge NVNT BLE 1M 2480MHz Ant3 Ref



Band Edge NVNT BLE 1M 2480MHz Ant3 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

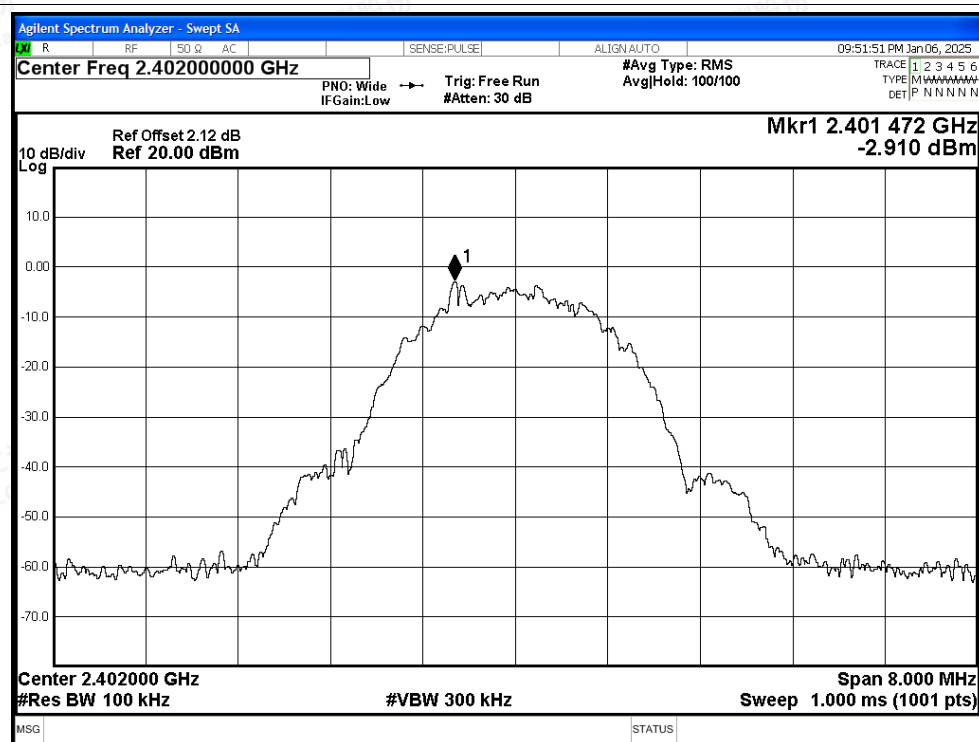
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

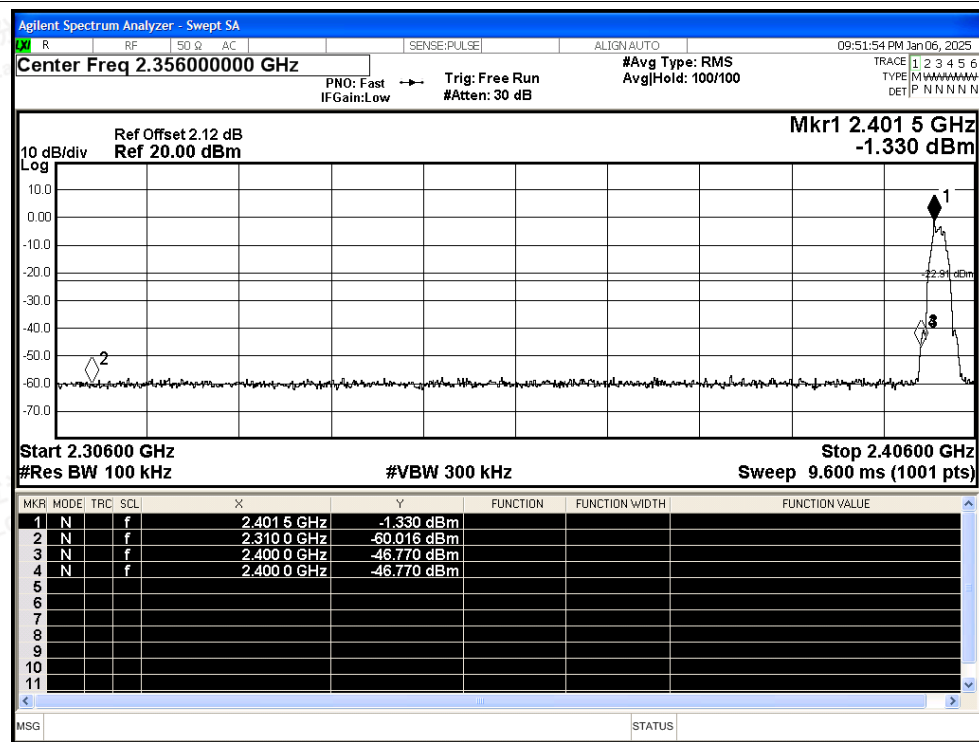
Scan code to check authenticity



Band Edge NVNT BLE 2M 2402MHz Ant3 Ref



Band Edge NVNT BLE 2M 2402MHz Ant3 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

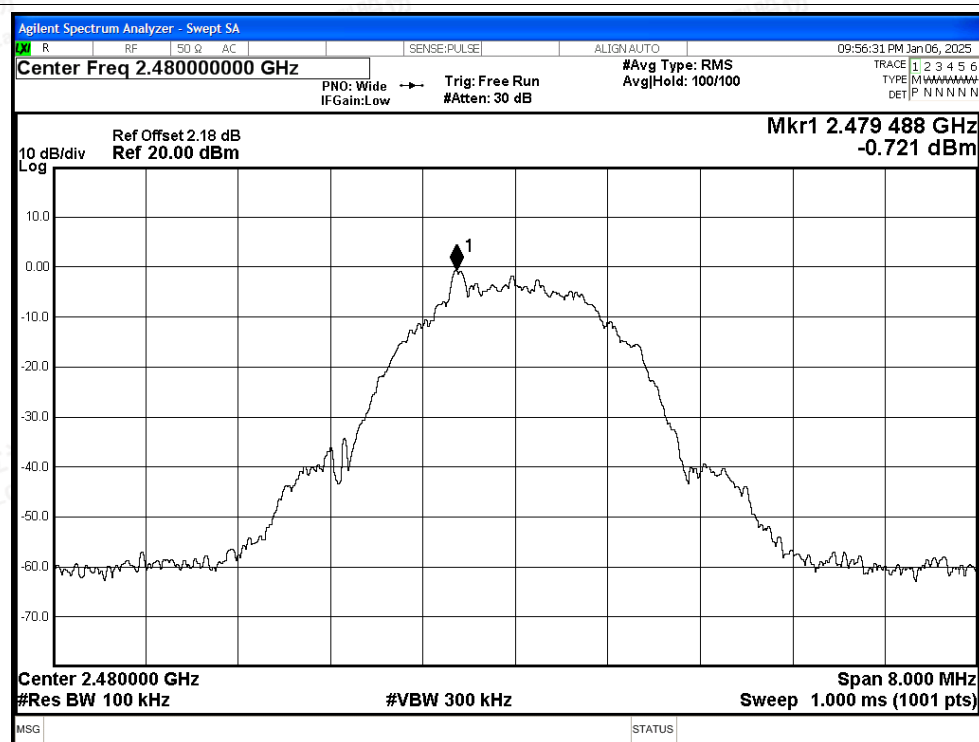
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

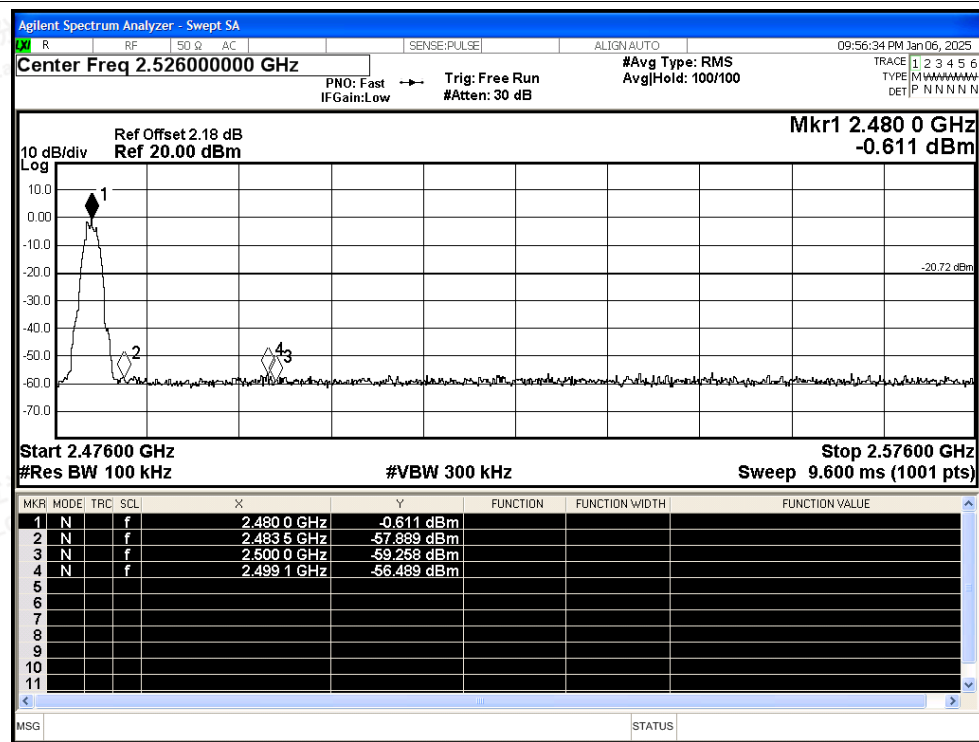
Scan code to check authenticity



Band Edge NVNT BLE 2M 2480MHz Ant3 Ref



Band Edge NVNT BLE 2M 2480MHz Ant3 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



B.5 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant3	-54.33	-20	Pass
NVNT	BLE 1M	2440	Ant3	-55.67	-20	Pass
NVNT	BLE 1M	2480	Ant3	-54.82	-20	Pass
NVNT	BLE 2M	2402	Ant3	-53.37	-20	Pass
NVNT	BLE 2M	2440	Ant3	-56	-20	Pass
NVNT	BLE 2M	2480	Ant3	-54.98	-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

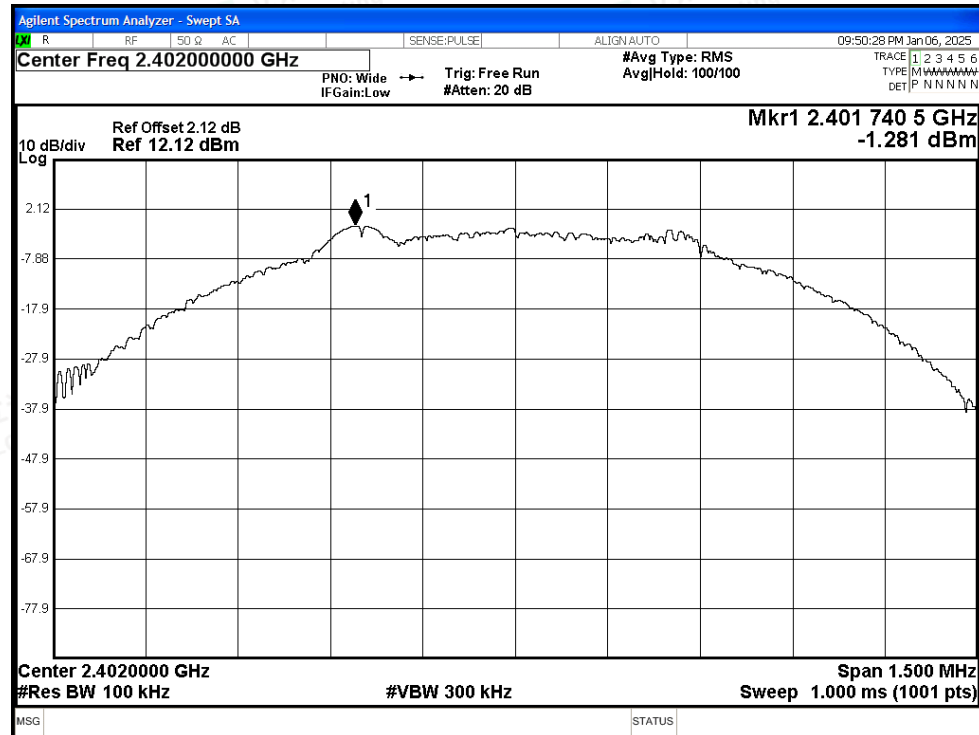
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity

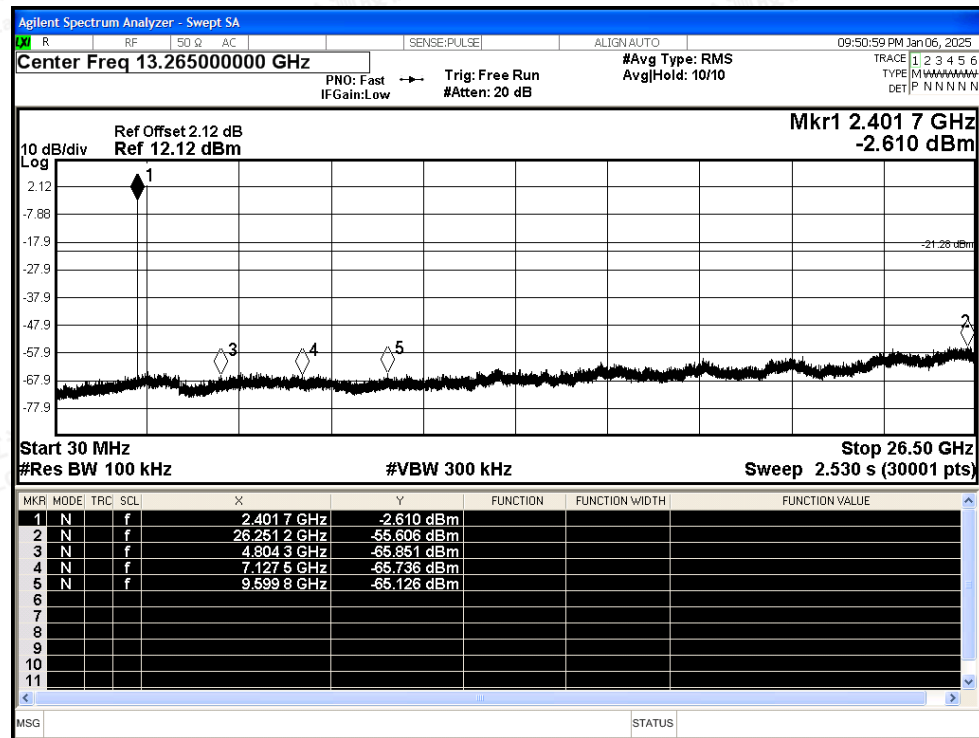


Test Graphs

Tx. Spurious NVNT BLE 1M 2402MHz Ant3 Ref



Tx. Spurious NVNT BLE 1M 2402MHz Ant3 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

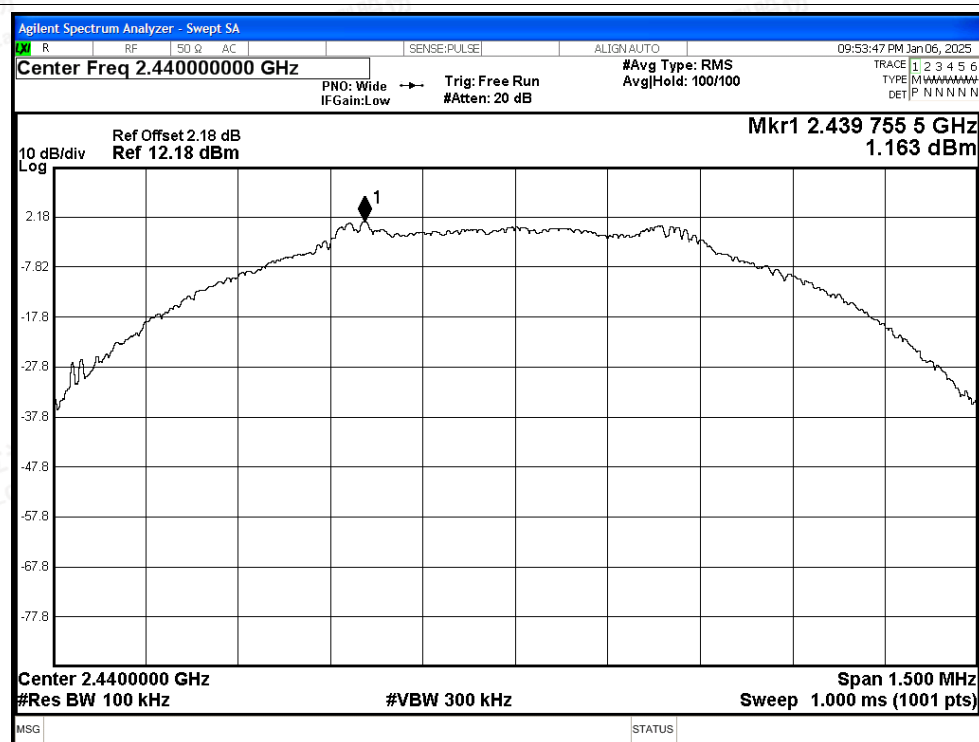
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

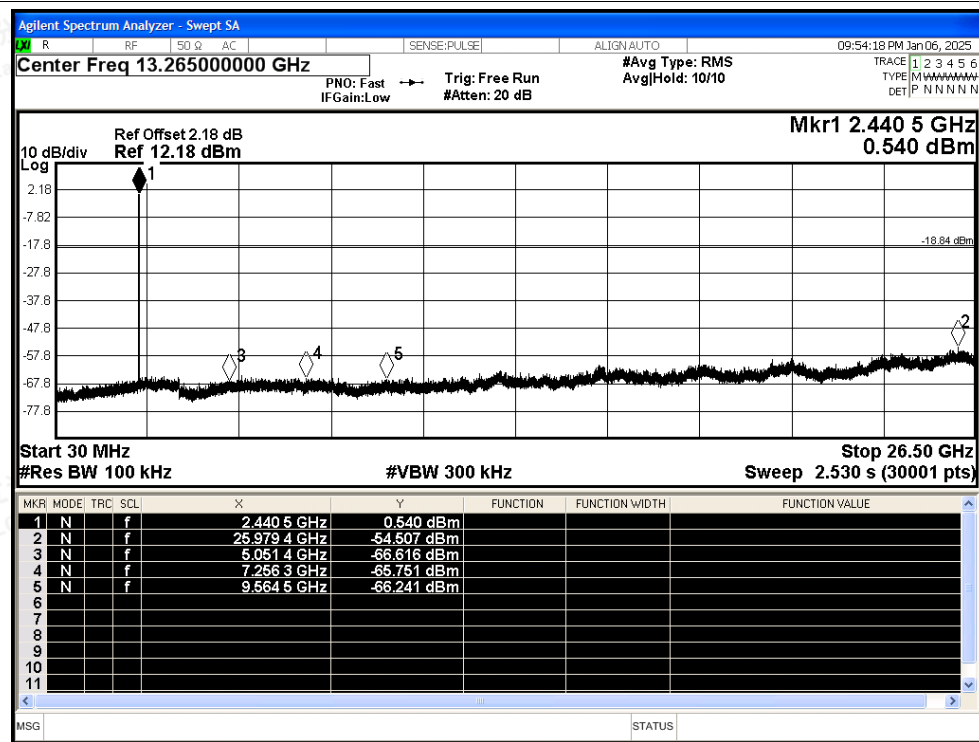
Scan code to check authenticity



Tx. Spurious NVNT BLE 1M 2440MHz Ant3 Ref



Tx. Spurious NVNT BLE 1M 2440MHz Ant3 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

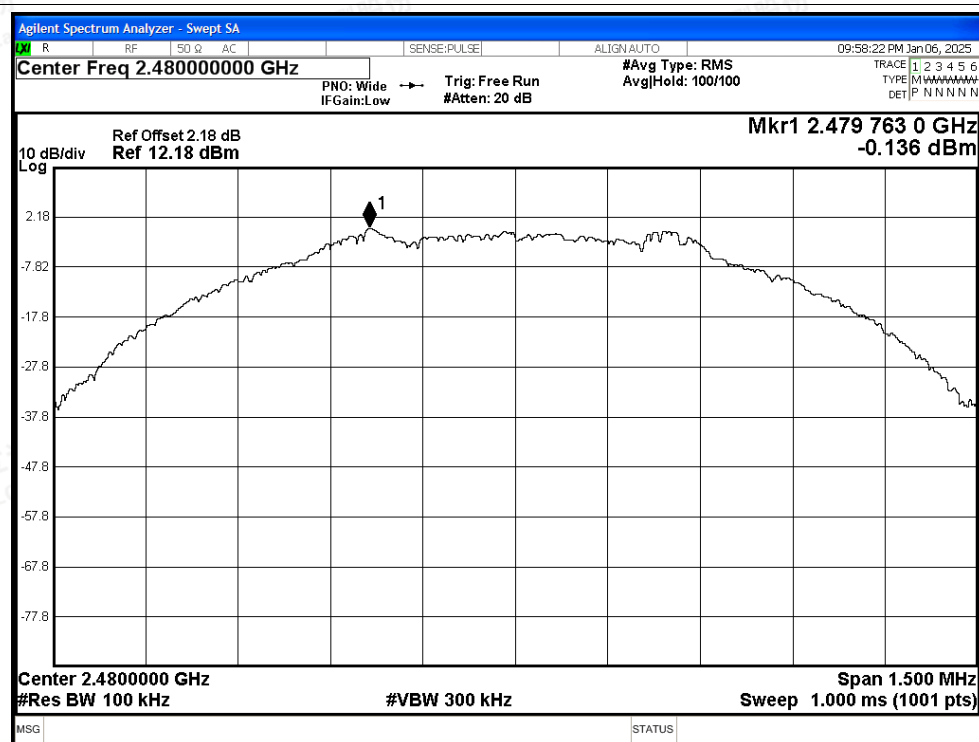
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

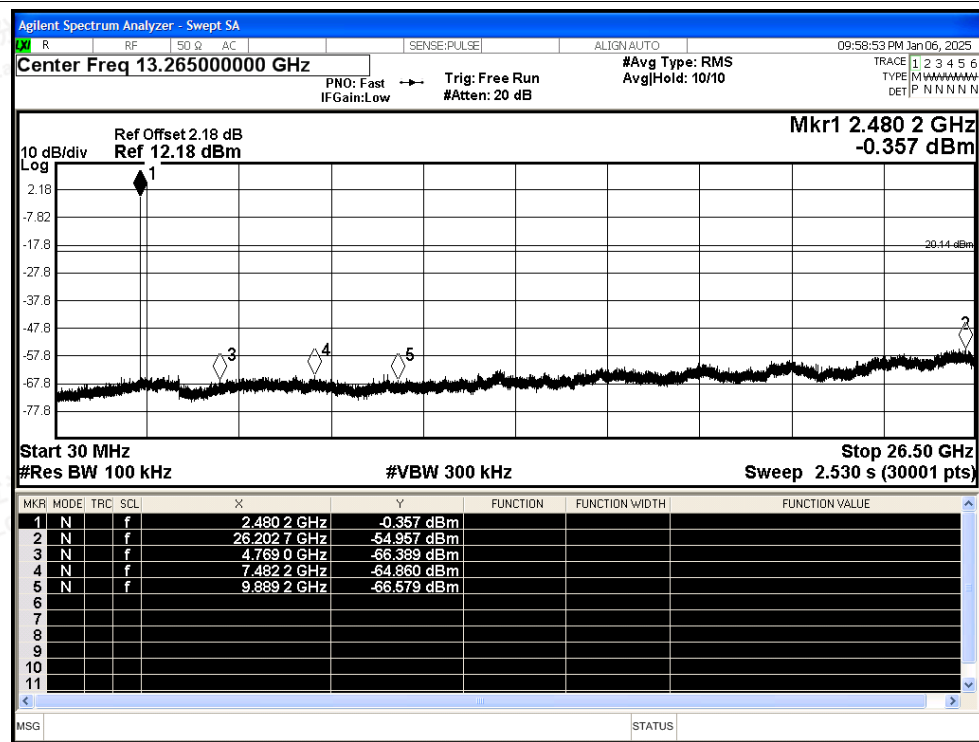
Scan code to check authenticity



Tx. Spurious NVNT BLE 1M 2480MHz Ant3 Ref



Tx. Spurious NVNT BLE 1M 2480MHz Ant3 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

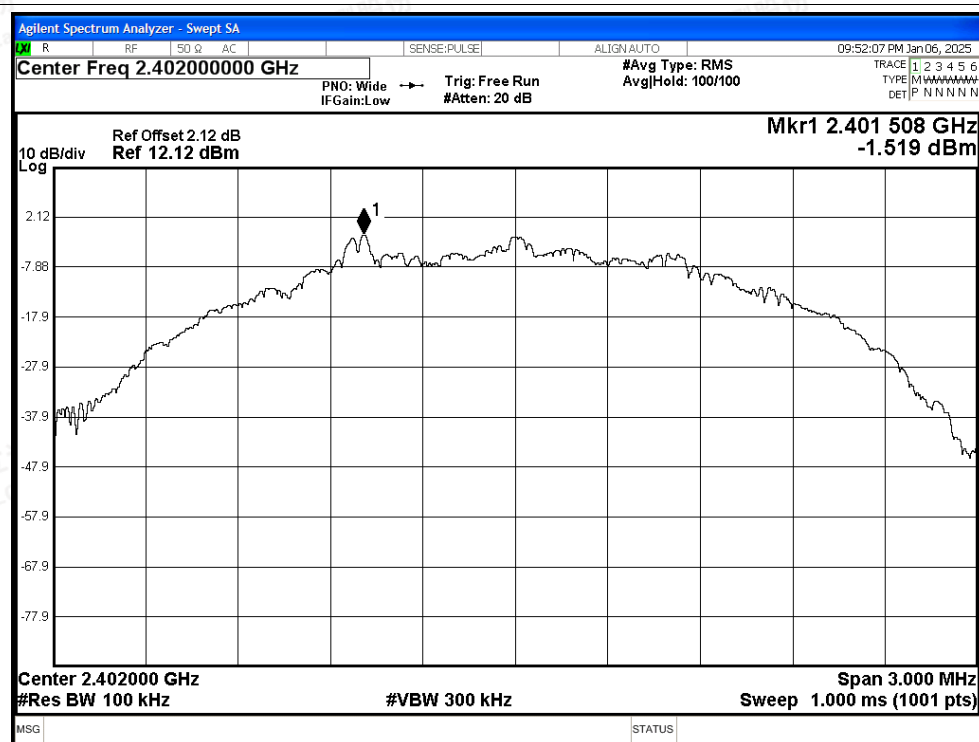
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

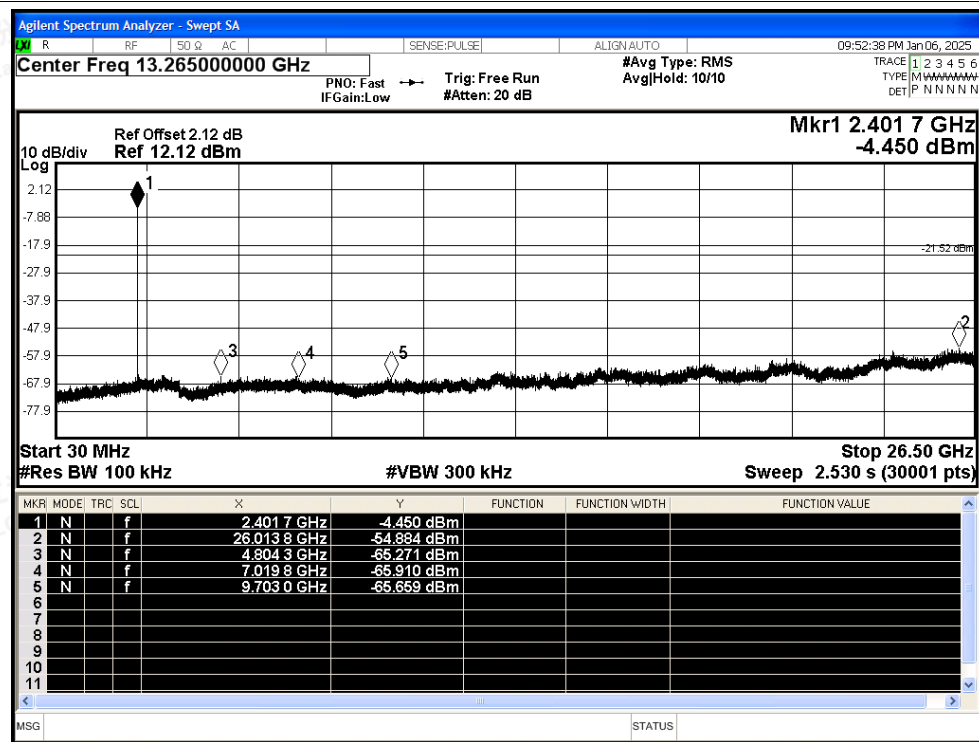
Scan code to check authenticity



Tx. Spurious NVNT BLE 2M 2402MHz Ant3 Ref



Tx. Spurious NVNT BLE 2M 2402MHz Ant3 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

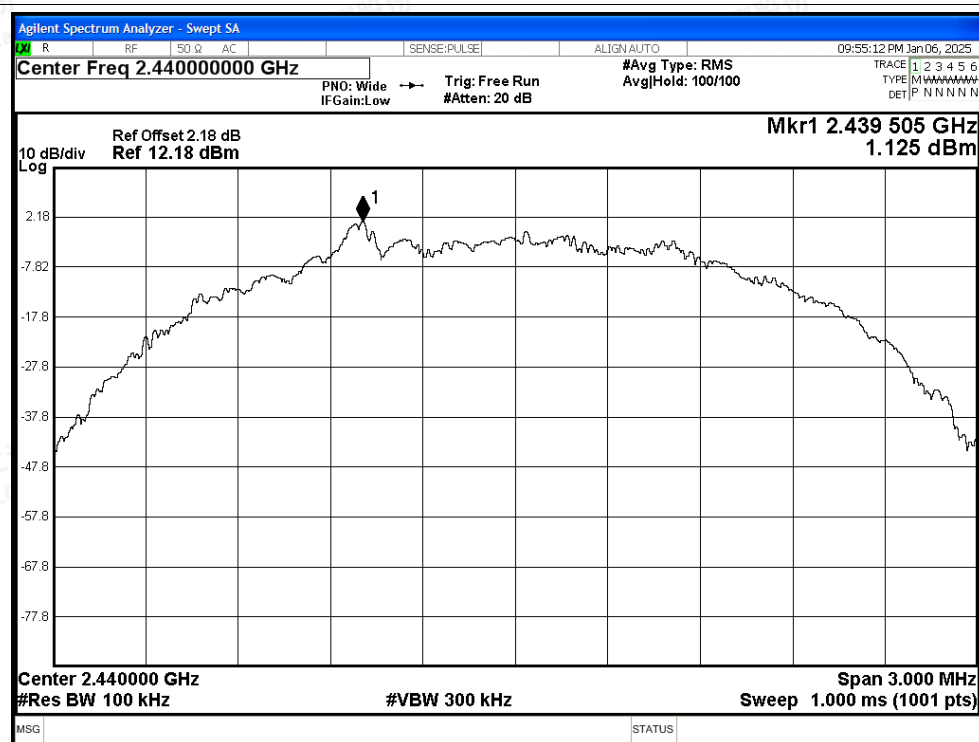
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

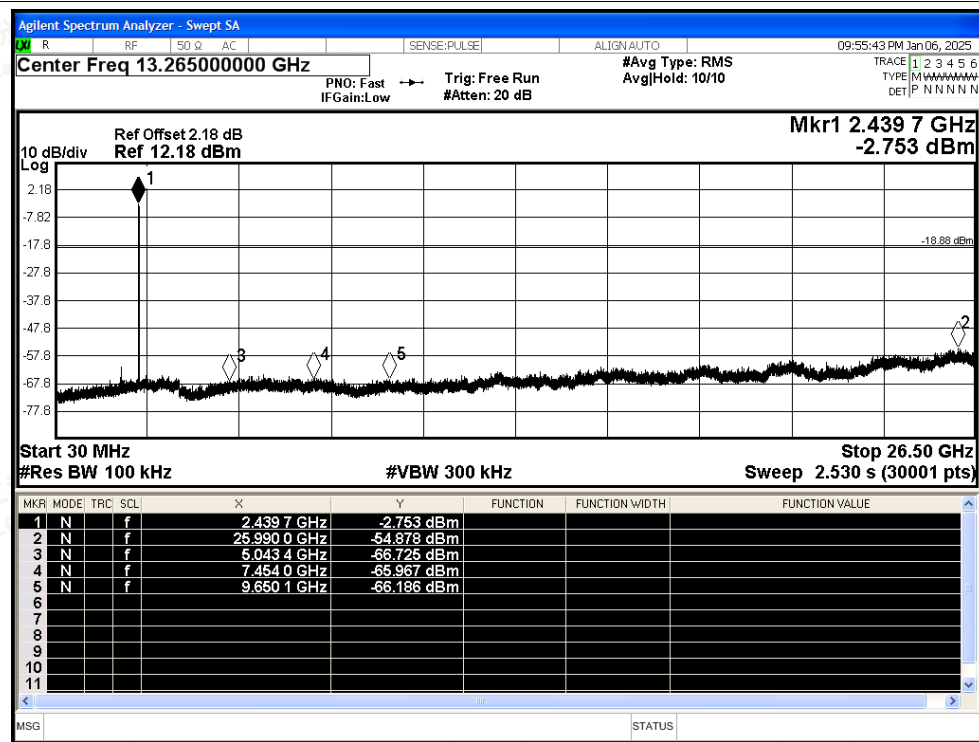
Scan code to check authenticity



Tx. Spurious NVNT BLE 2M 2440MHz Ant3 Ref



Tx. Spurious NVNT BLE 2M 2440MHz Ant3 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

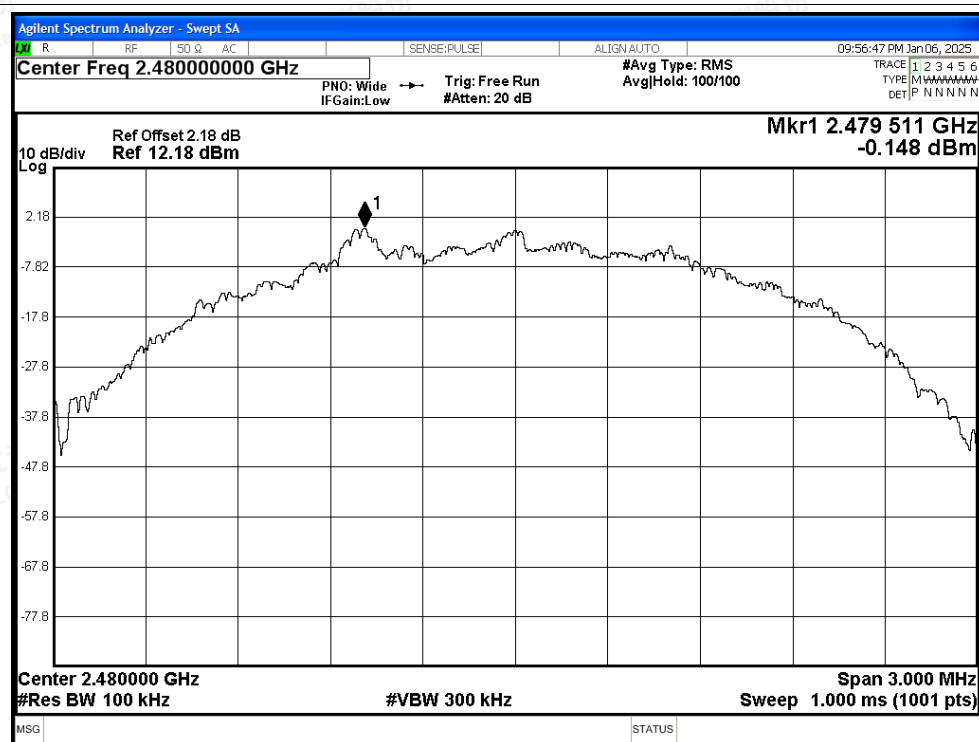
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

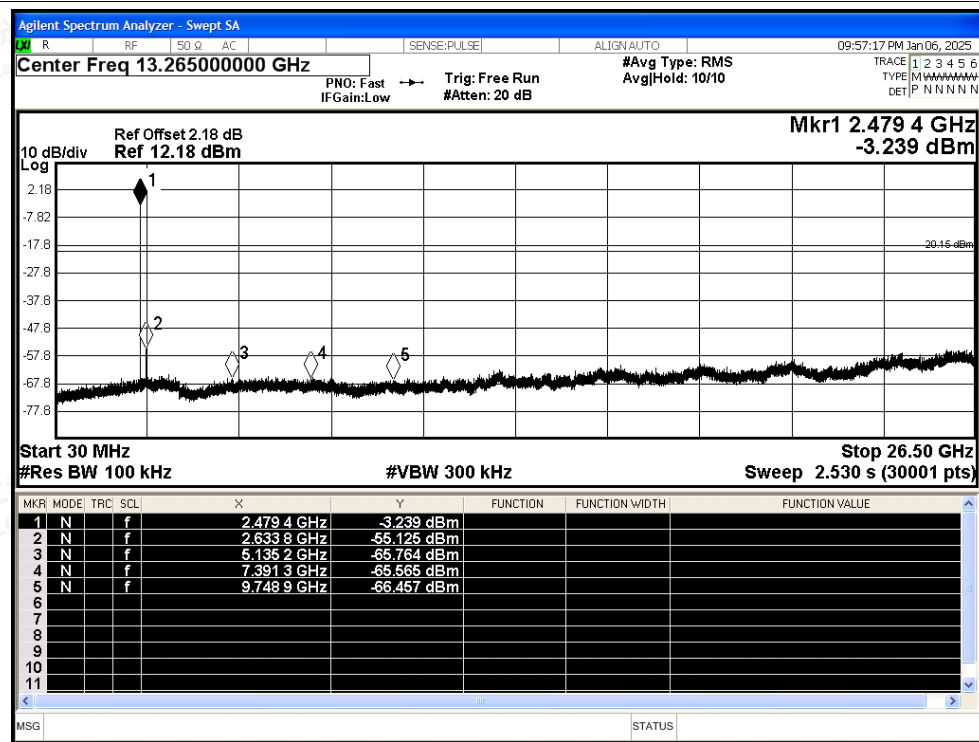
Scan code to check authenticity



Tx. Spurious NVNT BLE 2M 2480MHz Ant3 Ref



Tx. Spurious NVNT BLE 2M 2480MHz Ant3 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



B.6 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	BLE 1M	2402	Ant3	87.39	0.59	0.61
NVNT	BLE 1M	2440	Ant3	87.39	0.59	0.61
NVNT	BLE 1M	2480	Ant3	87.39	0.59	0.61
NVNT	BLE 2M	2402	Ant3	65.89	1.81	1.21
NVNT	BLE 2M	2440	Ant3	65.92	1.81	1.21
NVNT	BLE 2M	2480	Ant3	65.92	1.81	1.21



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

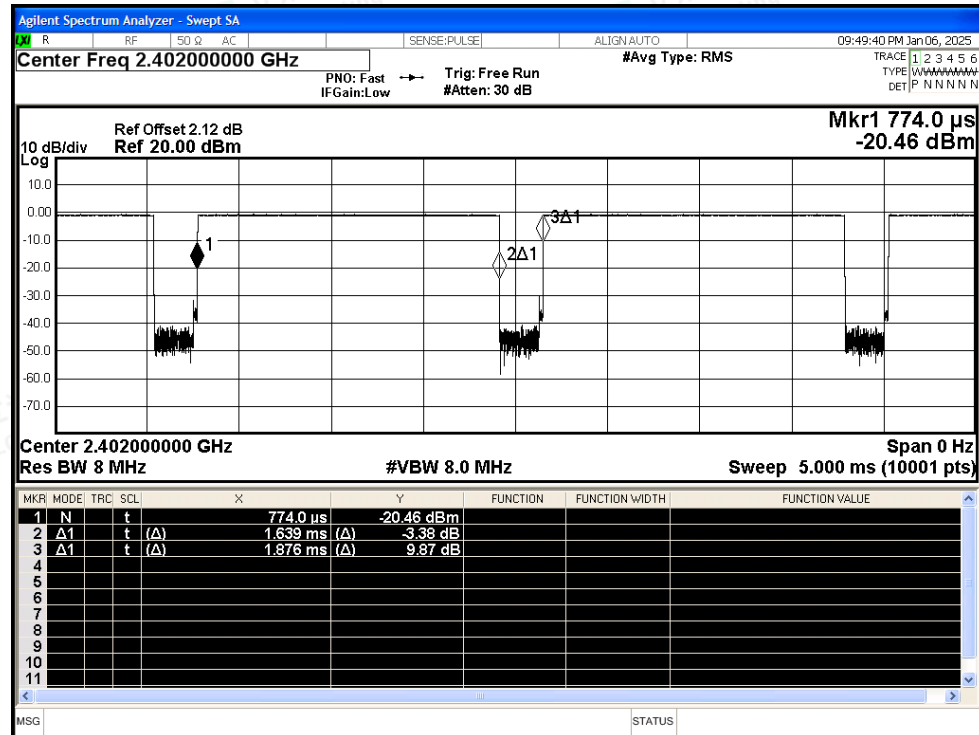
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity

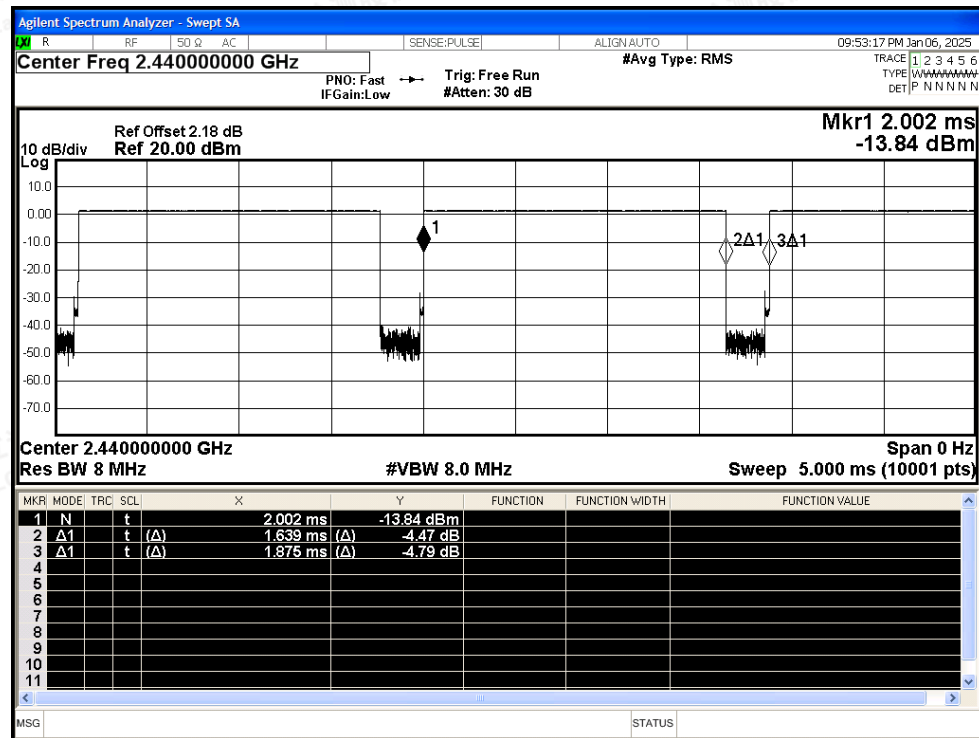


Test Graphs

Duty Cycle NVNT BLE 1M 2402MHz Ant3



Duty Cycle NVNT BLE 1M 2440MHz Ant3



Shenzhen LCS Compliance Testing Laboratory Ltd.

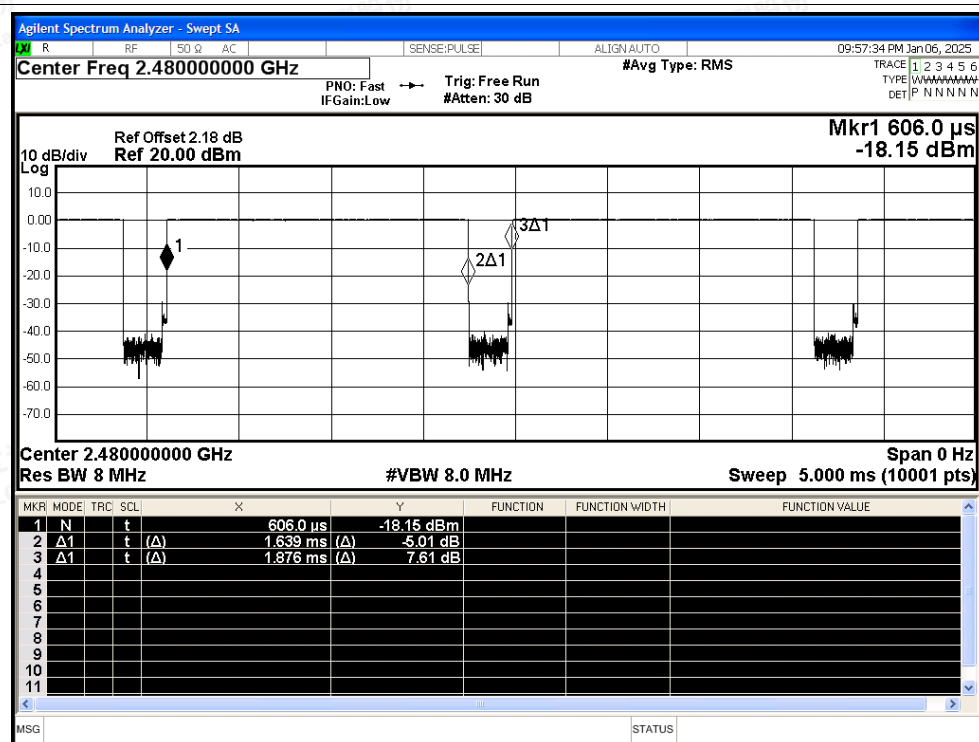
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

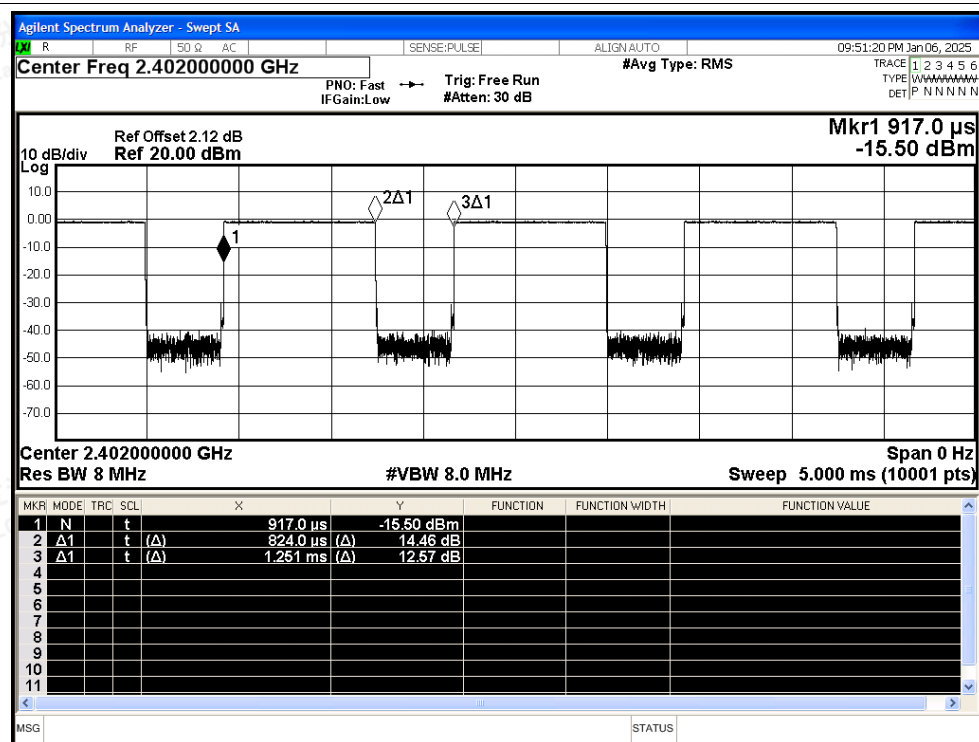
Scan code to check authenticity



Duty Cycle NVNT BLE 1M 2480MHz Ant3



Duty Cycle NVNT BLE 2M 2402MHz Ant3



Shenzhen LCS Compliance Testing Laboratory Ltd.

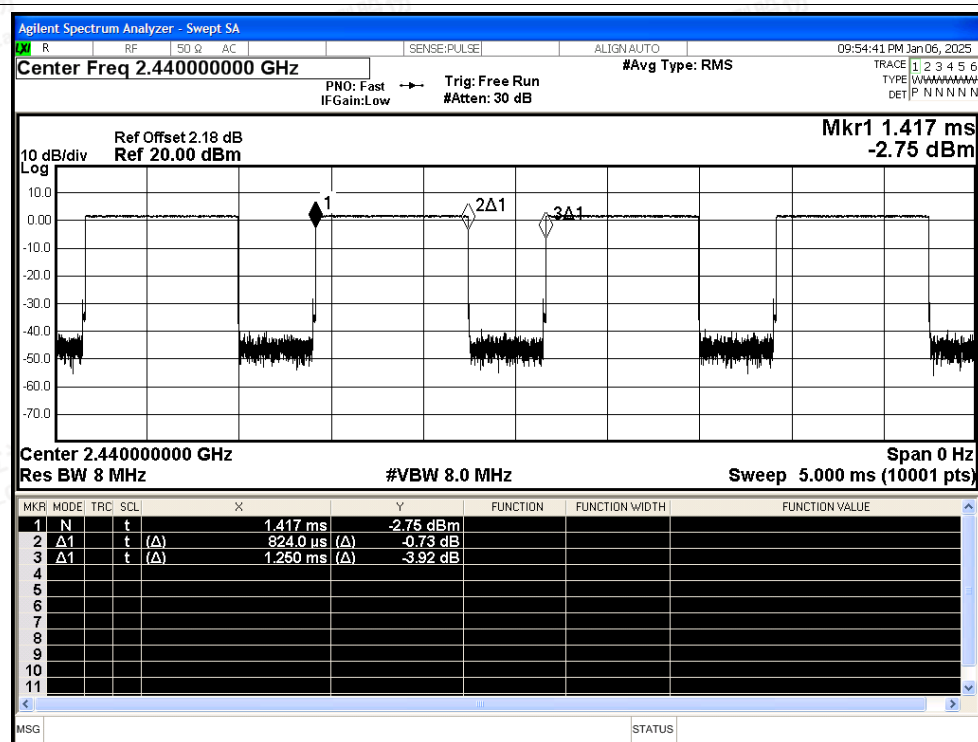
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

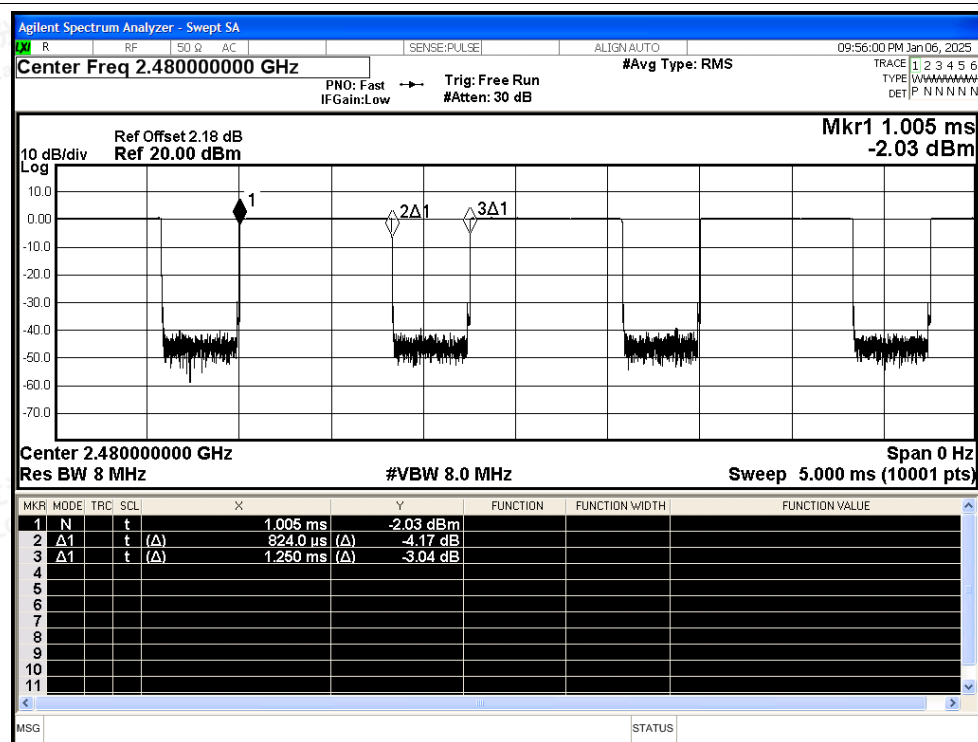
Scan code to check authenticity



Duty Cycle NVNT BLE 2M 2440MHz Ant3



Duty Cycle NVNT BLE 2M 2480MHz Ant3



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



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	Ant3	2310	-50.31	2.0	-	48.4	Peak	74	Pass
NVNT	BLE 1M	2402	Ant3	2310	-58.84	2.0	0.59	40.15	Average	54	Pass
NVNT	BLE 1M	2402	Ant3	2336.688	-47.43	2.0	-	54.12	Peak	74	Pass
NVNT	BLE 1M	2402	Ant3	2386.896	-58.06	2.0	0.59	40.39	Average	54	Pass
NVNT	BLE 1M	2402	Ant3	2390	-50.45	2.0	-	47.93	Peak	74	Pass
NVNT	BLE 1M	2402	Ant3	2390	-58.47	2.0	0.59	40.23	Average	54	Pass
NVNT	BLE 1M	2480	Ant3	2483.5	-48.86	2.0	-	46.59	Peak	74	Pass
NVNT	BLE 1M	2480	Ant3	2483.5	-57.7	2.0	0.59	39.94	Average	54	Pass
NVNT	BLE 1M	2480	Ant3	2484.808	-43.14	2.0	-	50.06	Peak	74	Pass
NVNT	BLE 1M	2480	Ant3	2483.8	-57.46	2.0	0.59	41.43	Average	54	Pass
NVNT	BLE 1M	2480	Ant3	2500	-49.33	2.0	-	47.79	Peak	74	Pass
NVNT	BLE 1M	2480	Ant3	2500	-57.62	2.0	0.59	40.57	Average	54	Pass
NVNT	BLE 2M	2402	Ant3	2310	-50.67	2.0	-	47.96	Peak	74	Pass
NVNT	BLE 2M	2402	Ant3	2310	-59.13	2.0	1.81	41.77	Average	54	Pass
NVNT	BLE 2M	2402	Ant3	2363.76	-47.2	2.0	-	52.17	Peak	74	Pass
NVNT	BLE 2M	2402	Ant3	2374.032	-57.64	2.0	1.81	41.92	Average	54	Pass
NVNT	BLE 2M	2402	Ant3	2390	-49.47	2.0	-	49.28	Peak	74	Pass
NVNT	BLE 2M	2402	Ant3	2390	-58.5	2.0	1.81	41.02	Average	54	Pass
NVNT	BLE 2M	2480	Ant3	2483.5	-49.3	2.0	-	48.4	Peak	74	Pass
NVNT	BLE 2M	2480	Ant3	2483.5	-57.3	2.0	1.81	40.15	Average	54	Pass
NVNT	BLE 2M	2480	Ant3	2486.68	-45.09	2.0	-	54.12	Peak	74	Pass
NVNT	BLE 2M	2480	Ant3	2484.448	-57.15	2.0	1.81	40.39	Average	54	Pass
NVNT	BLE 2M	2480	Ant3	2500	-47.98	2.0	-	47.93	Peak	74	Pass
NVNT	BLE 2M	2480	Ant3	2500	-58.05	2.0	1.81	40.23	Average	54	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

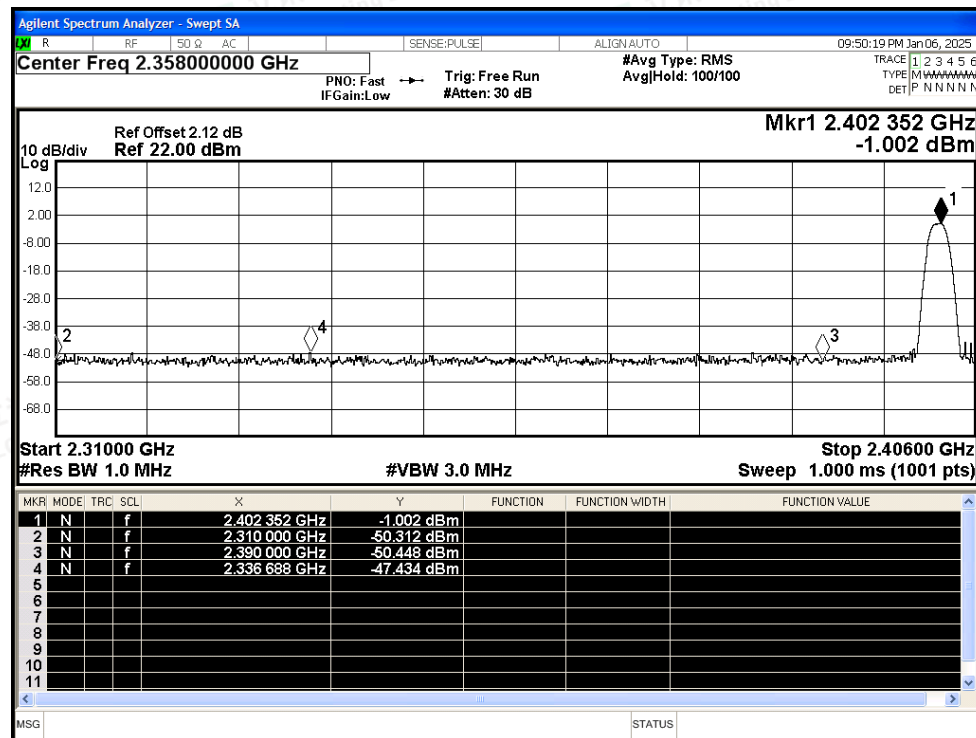
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity

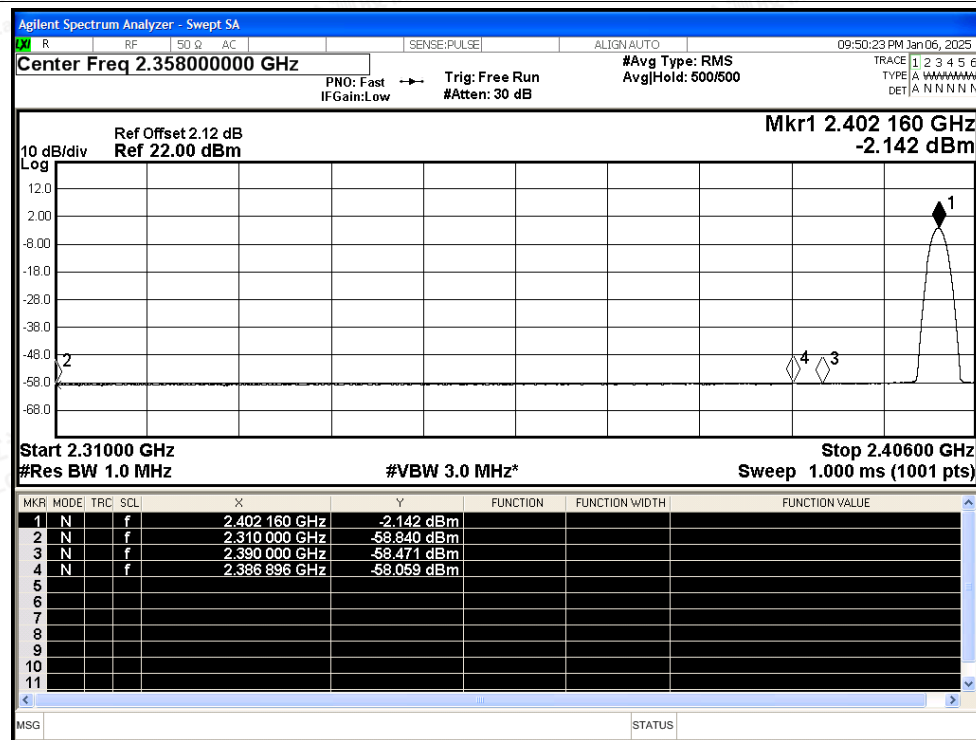


Test Graphs

Restrict Band NVNT BLE 1M 2402MHz Ant3 Peak



Restrict Band NVNT BLE 1M 2402MHz Ant3 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

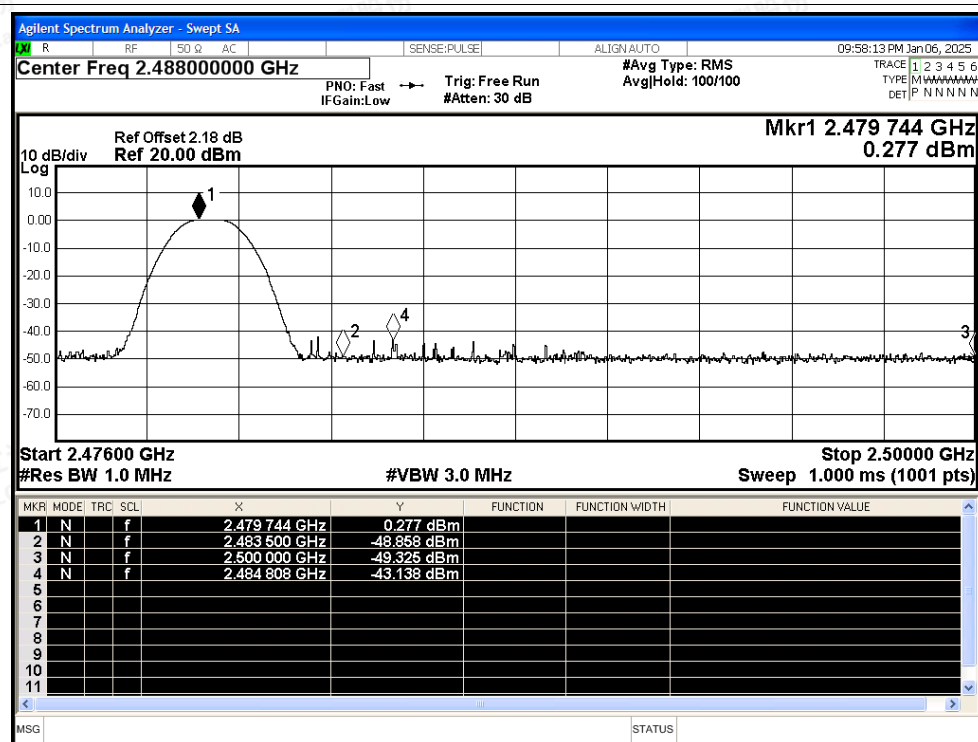
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

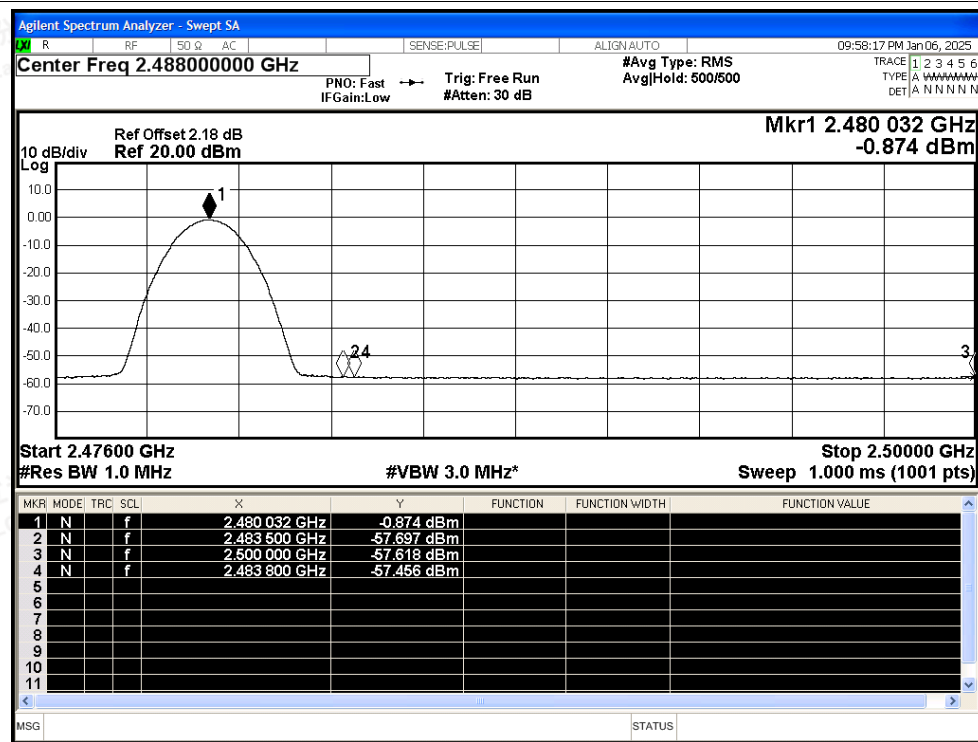
Scan code to check authenticity



Restrict Band NVNT BLE 1M 2480MHz Ant3 Peak



Restrict Band NVNT BLE 1M 2480MHz Ant3 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

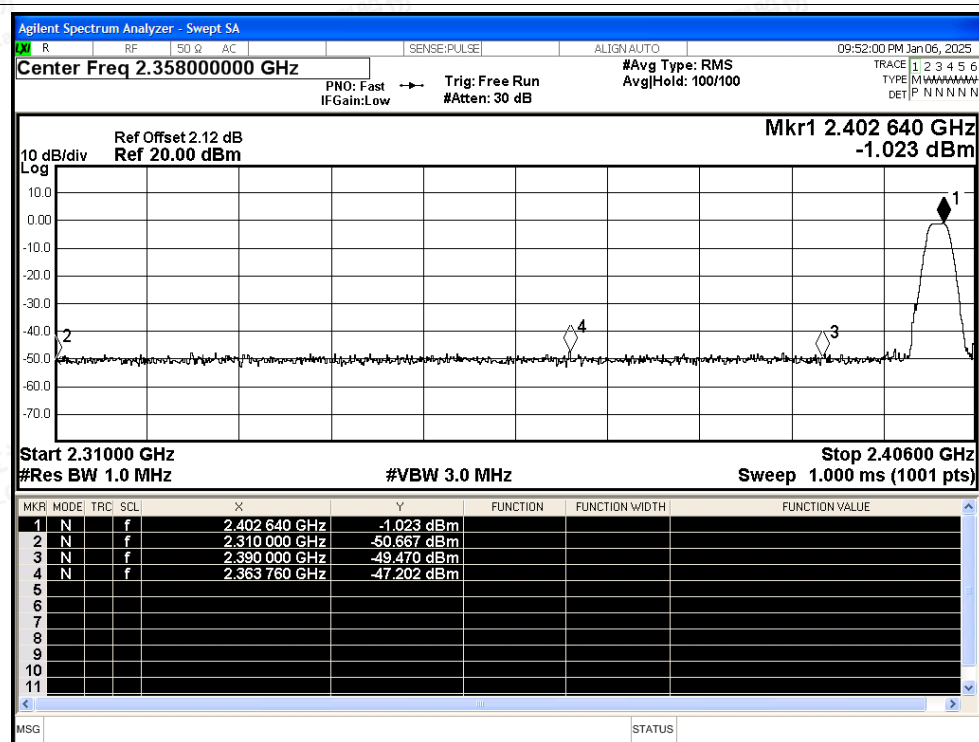
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

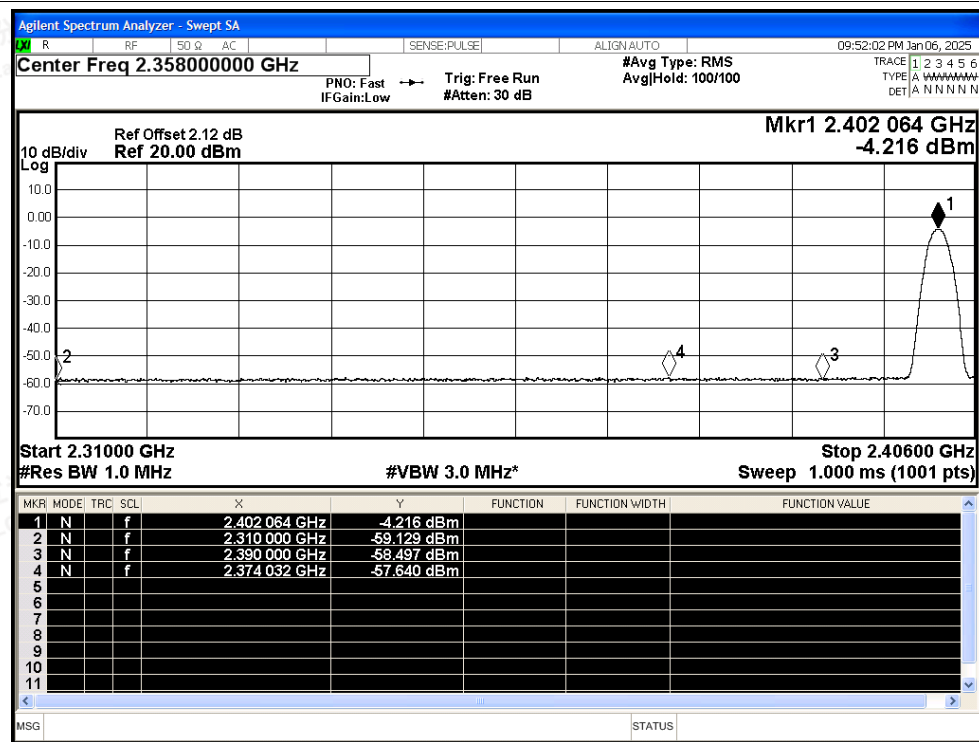
Scan code to check authenticity



Restrict Band NVNT BLE 2M 2402MHz Ant3 Peak



Restrict Band NVNT BLE 2M 2402MHz Ant3 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

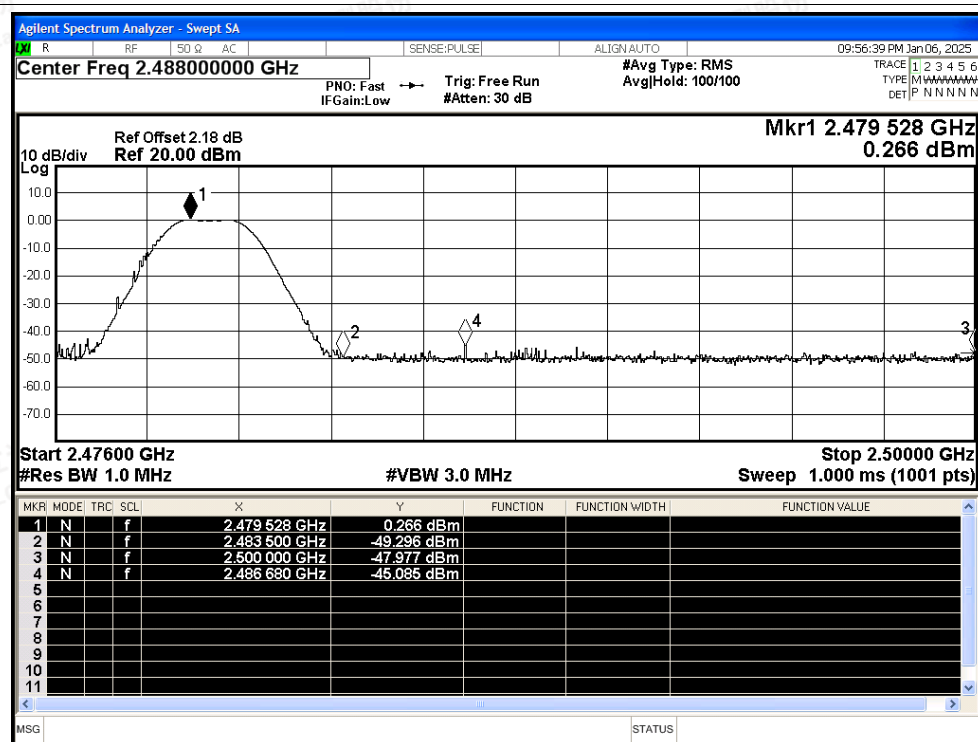
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

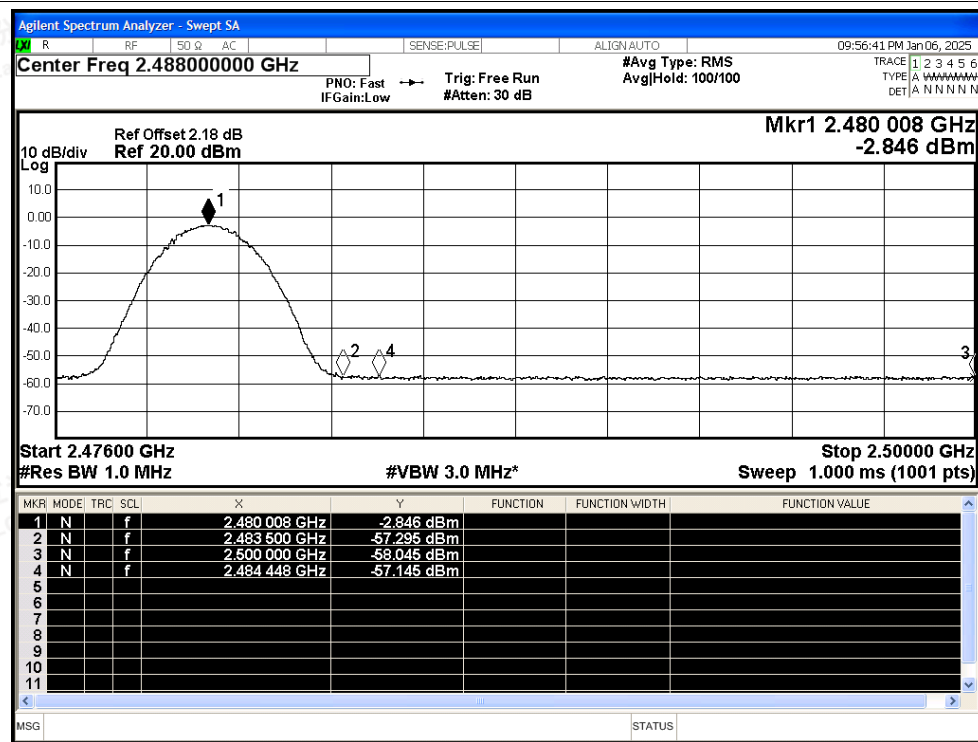
Scan code to check authenticity



Restrict Band NVNT BLE 2M 2480MHz Ant3 Peak



Restrict Band NVNT BLE 2M 2480MHz Ant3 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