



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: SOUNDEXTREME SEB28

Test Model: SEI-EXSEB2801

Environmental Conditions

Temperature:	23.5 °C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Joker Hu Joker Hu
Supervised by:	Ling Zhu Ling Zhu



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A.1 -20dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	1.025	N/A	Pass
NVNT	1-DH5	2441	Ant1	0.983	N/A	Pass
NVNT	1-DH5	2480	Ant1	0.978	N/A	Pass
NVNT	2-DH5	2402	Ant1	1.281	N/A	Pass
NVNT	2-DH5	2441	Ant1	1.279	N/A	Pass
NVNT	2-DH5	2480	Ant1	1.312	N/A	Pass
NVNT	3-DH5	2402	Ant1	1.296	N/A	Pass
NVNT	3-DH5	2441	Ant1	1.267	N/A	Pass
NVNT	3-DH5	2480	Ant1	1.298	N/A	Pass



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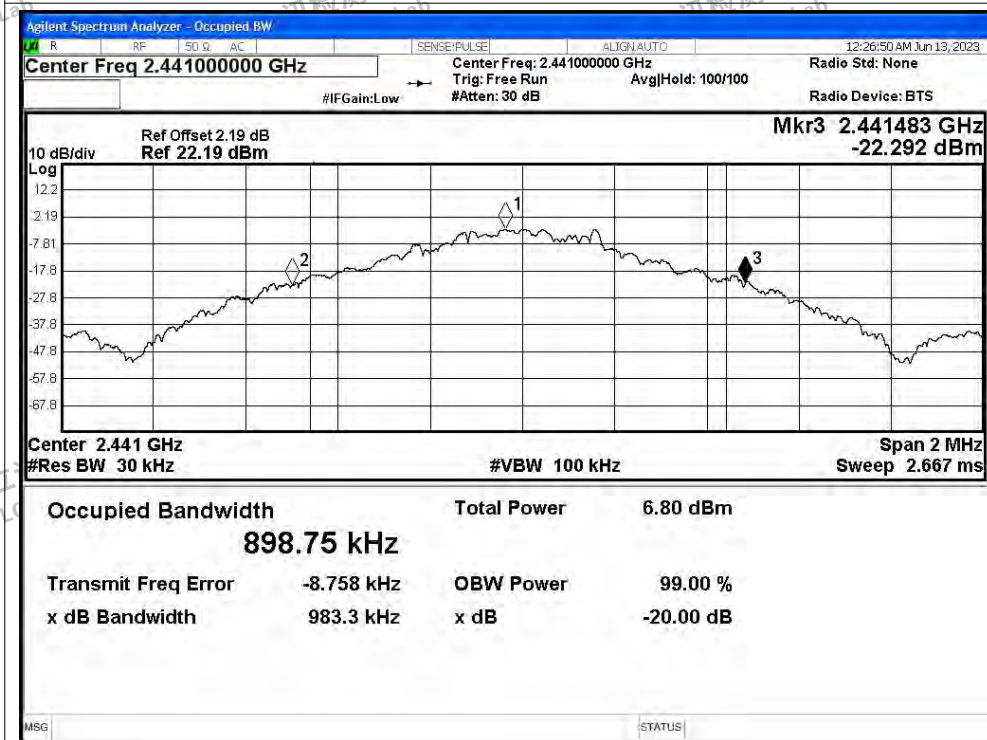


Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1



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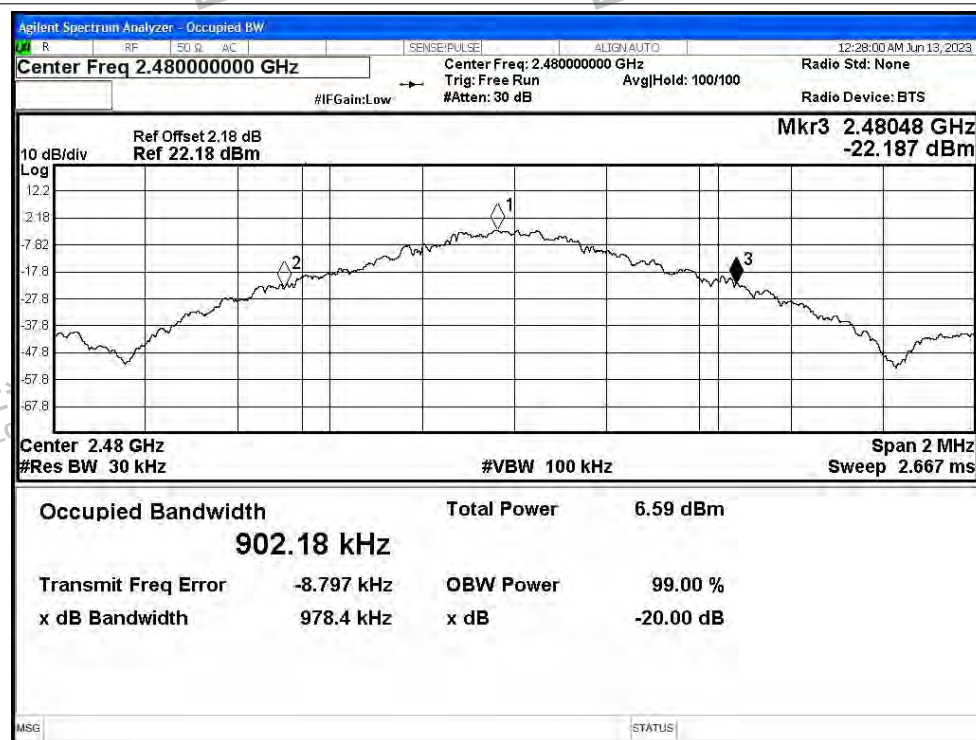
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-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1



-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1



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-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1



-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1



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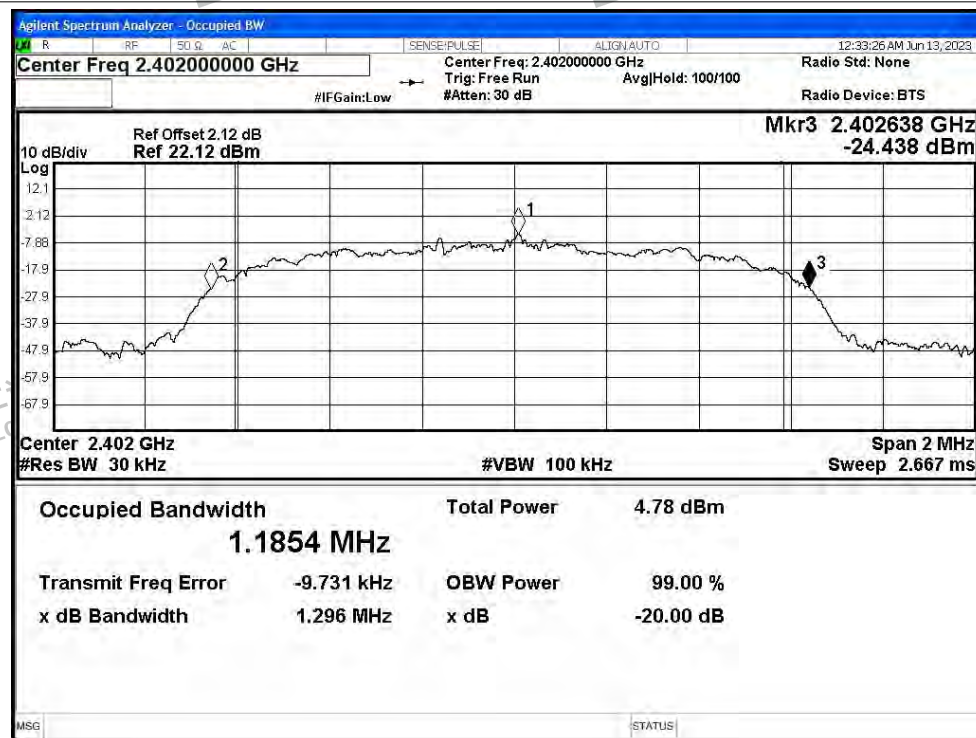
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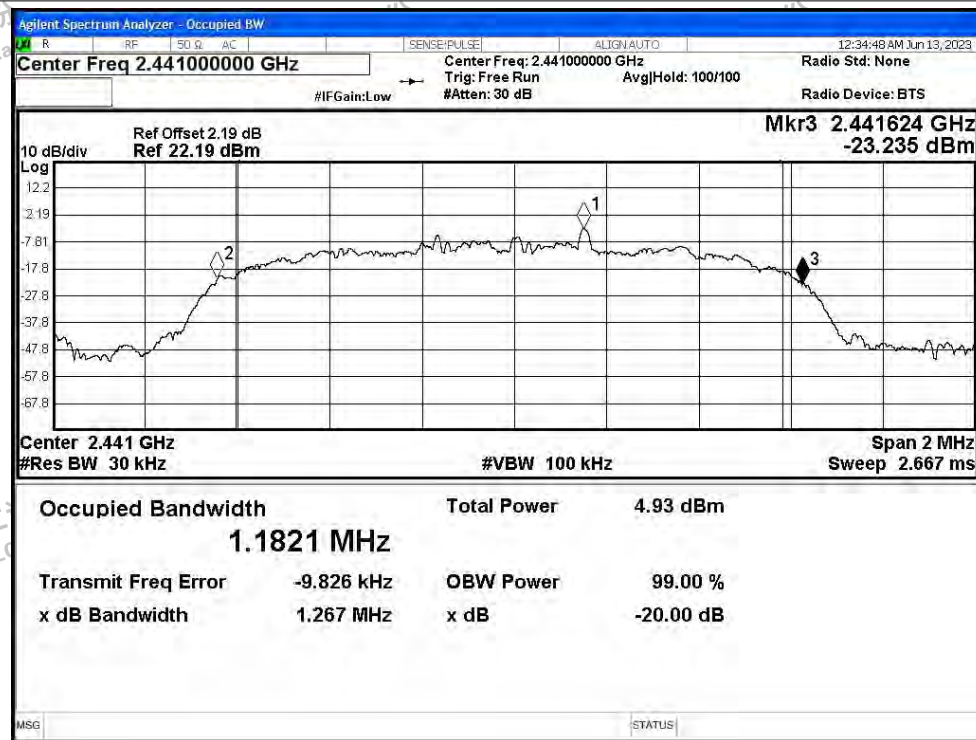
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-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1



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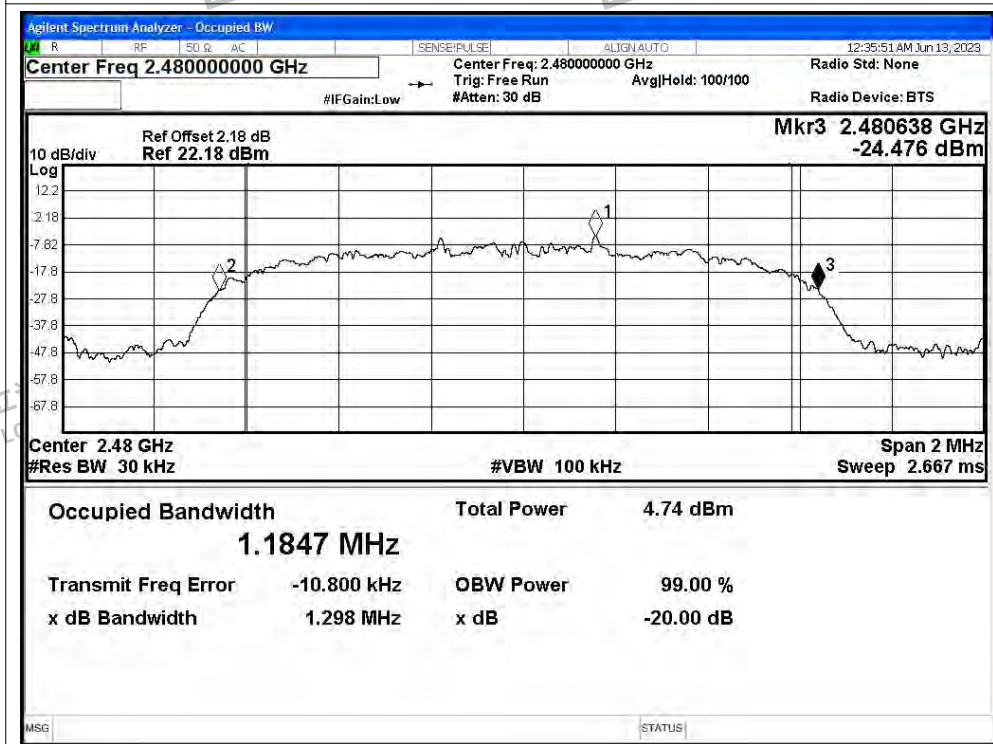
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-20dB Bandwidth NVNT 3-DH5 2480MHz Ant1



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A.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	0.45	21	Pass
NVNT	1-DH5	2441	Ant1	0.61	21	Pass
NVNT	1-DH5	2480	Ant1	0.56	21	Pass
NVNT	2-DH5	2402	Ant1	0.18	21	Pass
NVNT	2-DH5	2441	Ant1	0.33	21	Pass
NVNT	2-DH5	2480	Ant1	0.36	21	Pass
NVNT	3-DH5	2402	Ant1	0.3	21	Pass
NVNT	3-DH5	2441	Ant1	0.45	21	Pass
NVNT	3-DH5	2480	Ant1	0.42	21	Pass



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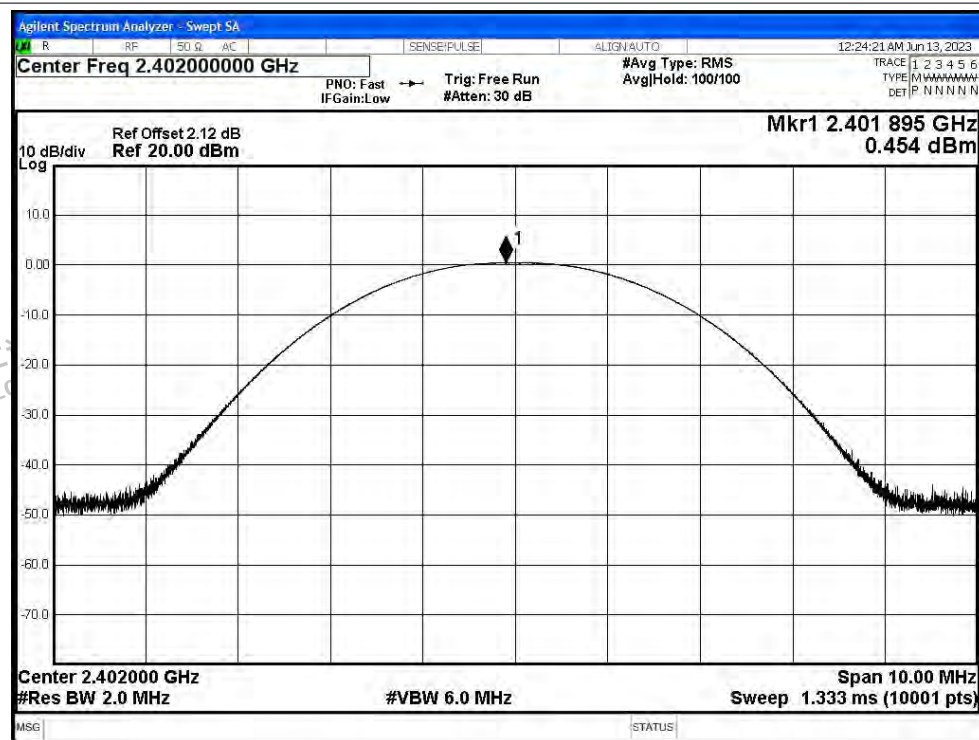
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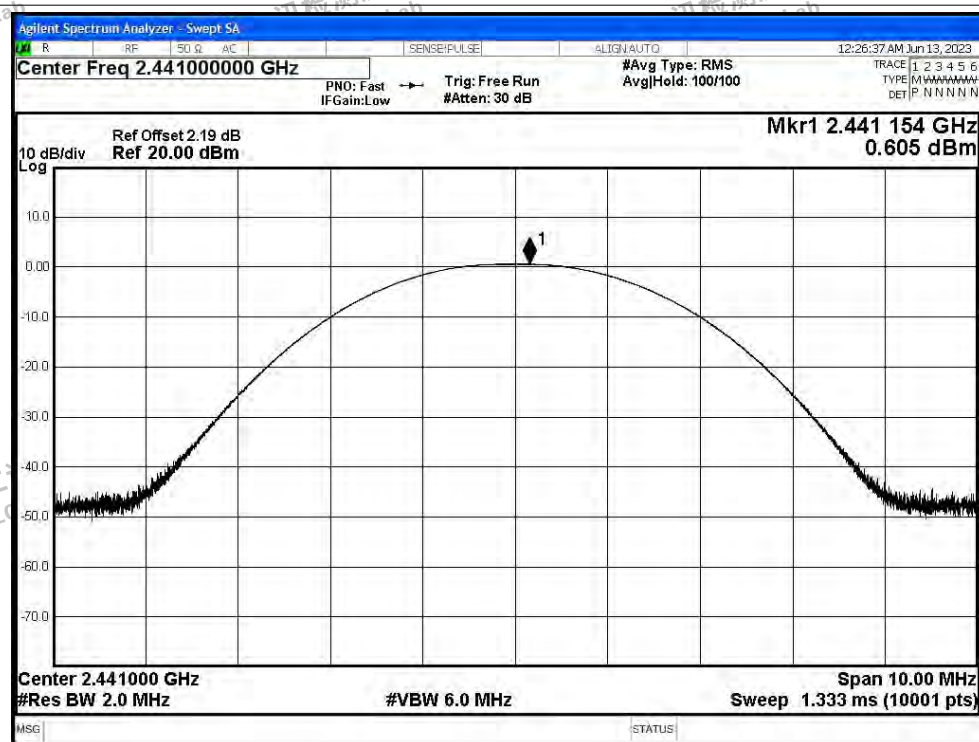


Test Graphs

Power NVNT 1-DH5 2402MHz Ant1



Power NVNT 1-DH5 2441MHz Ant1



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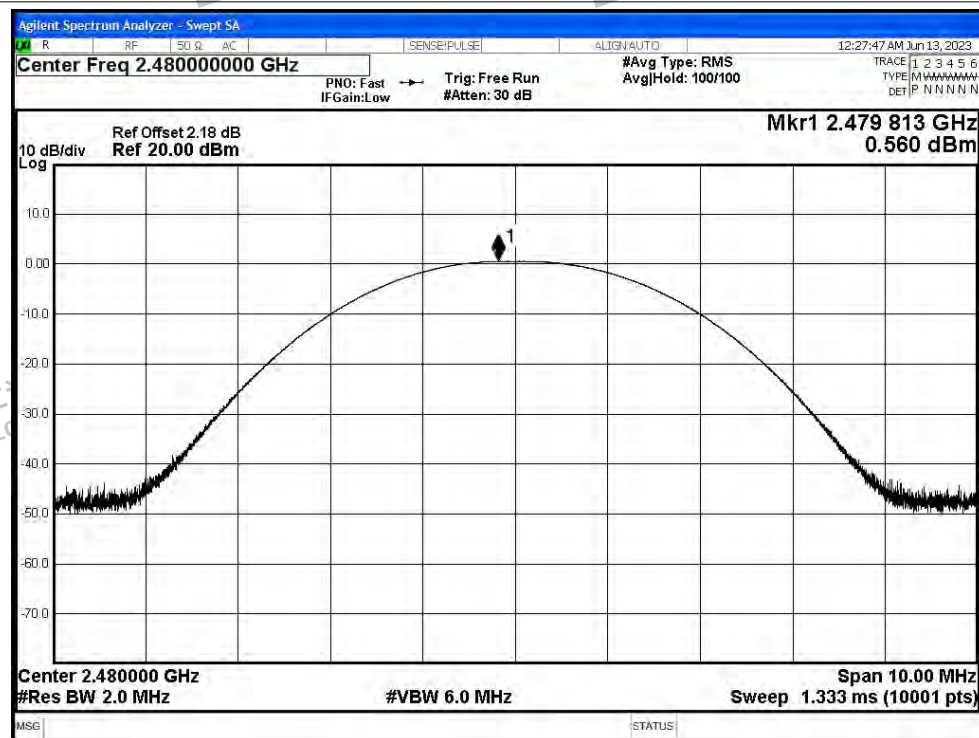
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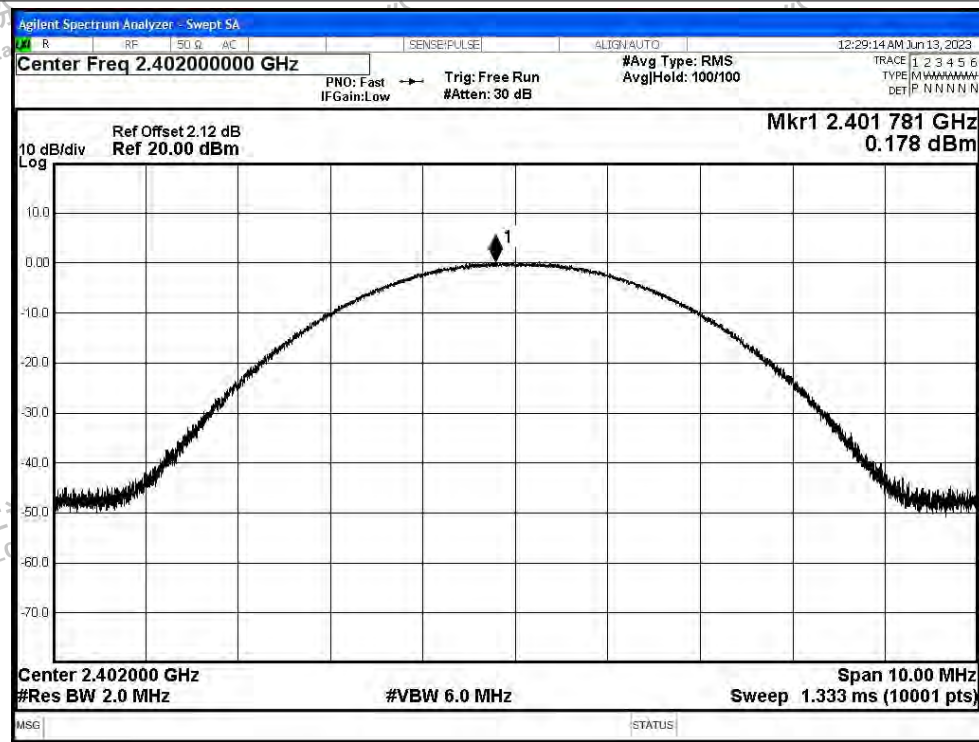
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Power NVNT 1-DH5 2480MHz Ant1



Power NVNT 2-DH5 2402MHz Ant1



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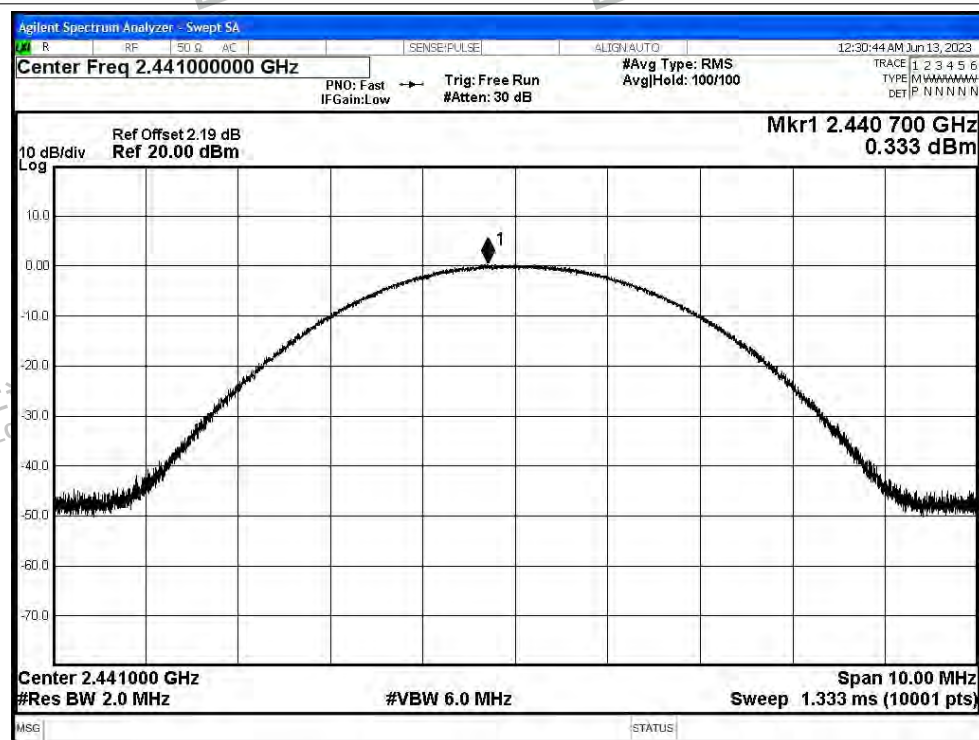
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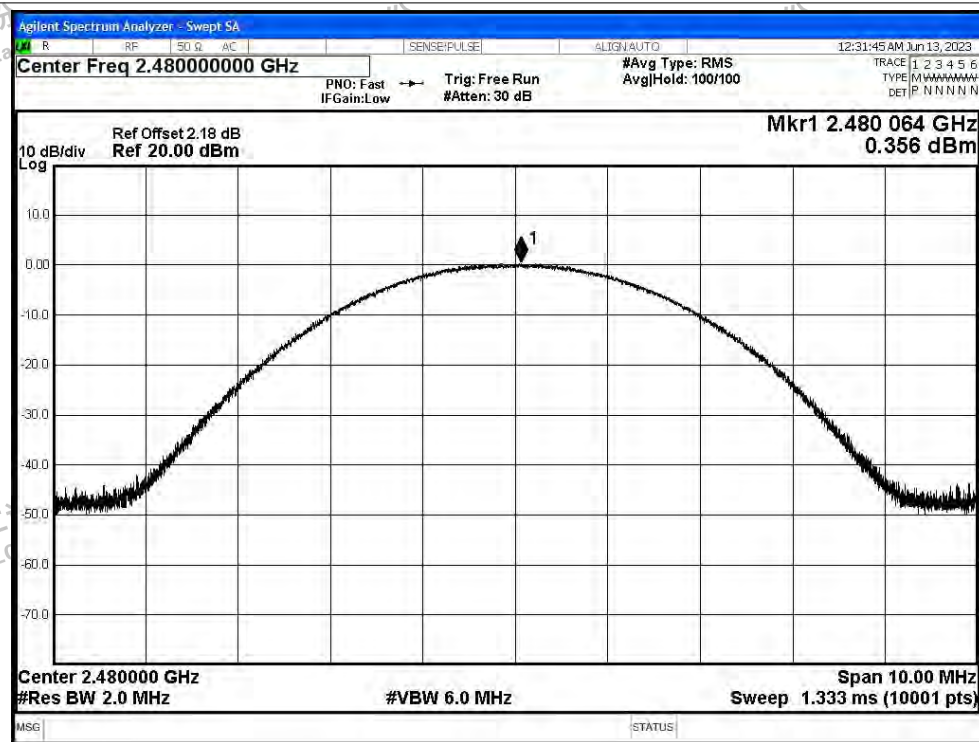
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Power NVNT 2-DH5 2441MHz Ant1



Power NVNT 2-DH5 2480MHz Ant1



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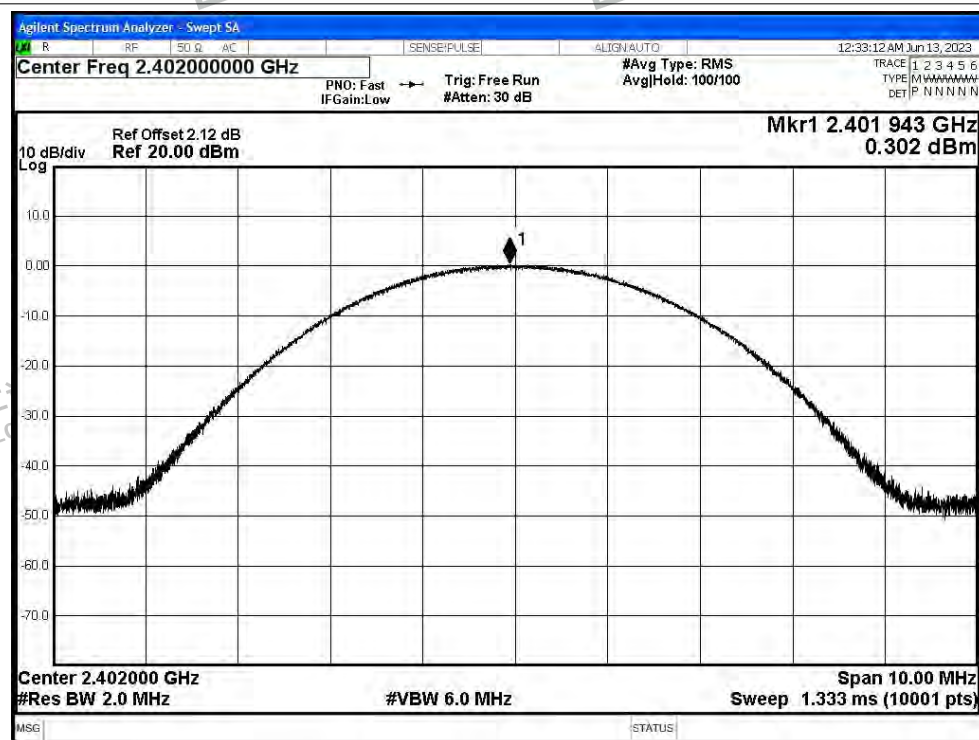
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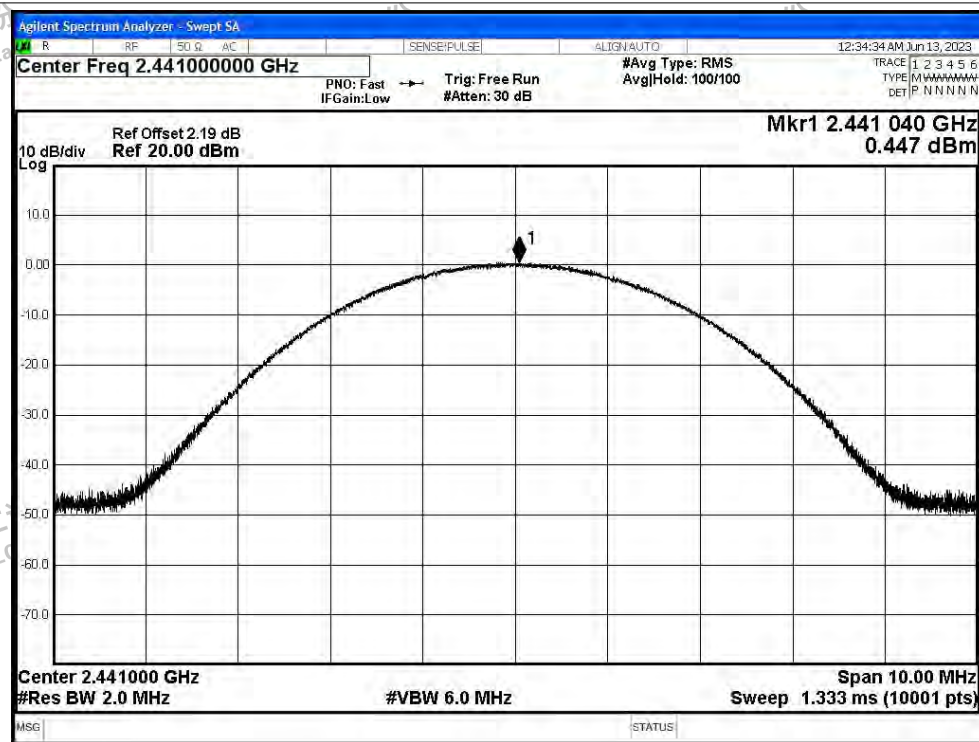
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Power NVNT 3-DH5 2402MHz Ant1



Power NVNT 3-DH5 2441MHz Ant1

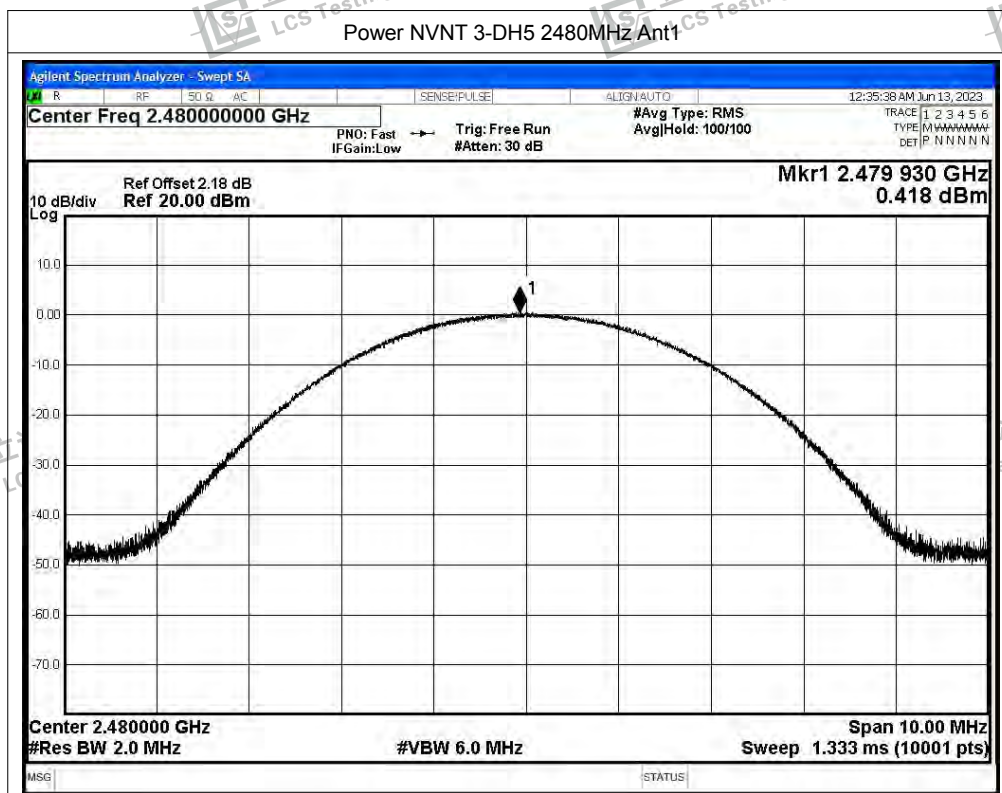


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A.3 Carrier Frequencies Separation

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2401.956	2403.154	1.198	0.683	Pass
NVNT	2-DH5	Ant1	2401.984	2403.016	1.032	0.875	Pass
NVNT	3-DH5	Ant1	2402.018	2403.148	1.13	0.865	Pass



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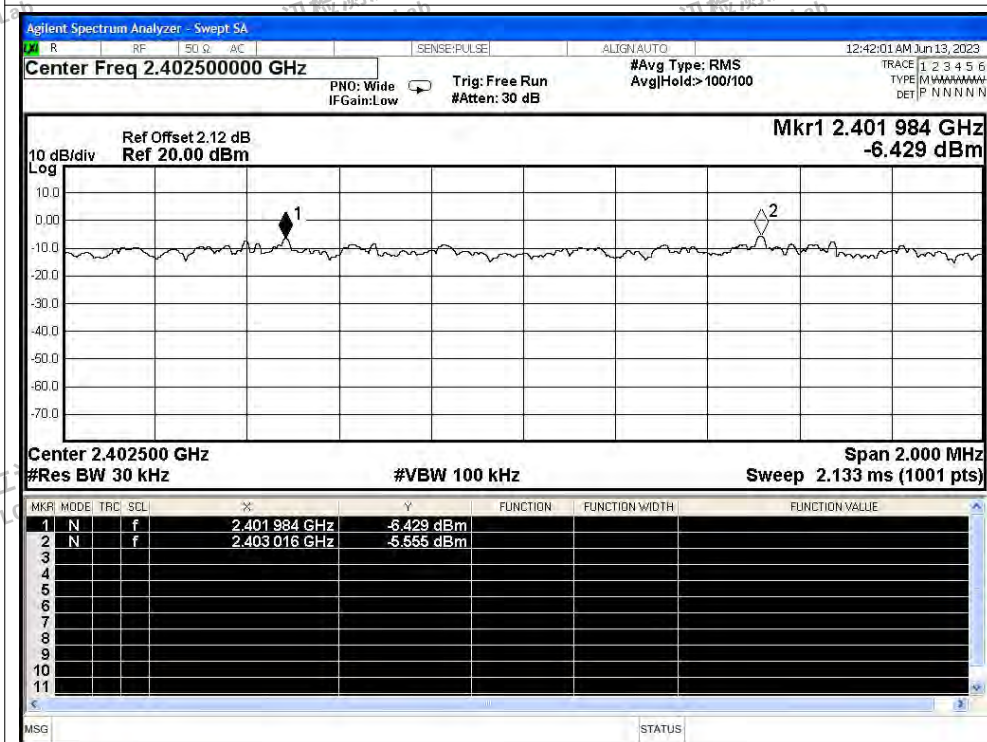


Test Graphs

CFS NVNT 1-DH5 2402MHz Ant1



CFS NVNT 2-DH5 2402MHz Ant1

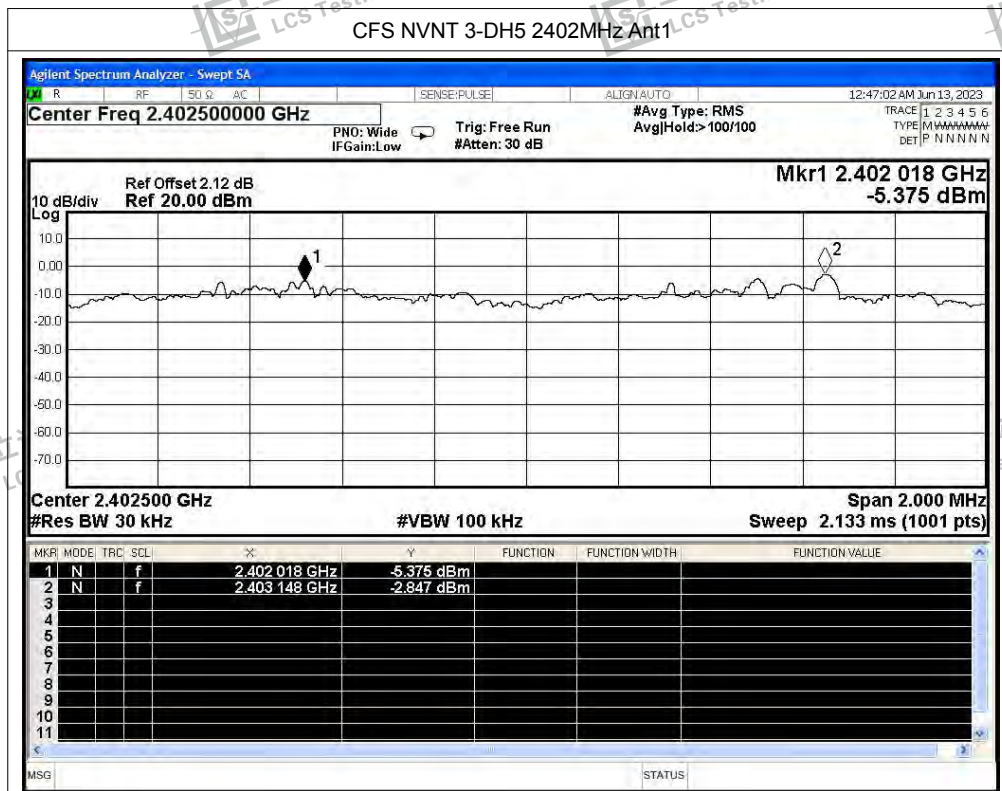


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A.4 Dwell Time

Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH5	2402	Ant1	2.882	288.2	100	31600	400	Pass
NVNT	2-DH5	2402	Ant1	0.014	0.826	59	31600	400	Pass
NVNT	3-DH5	2402	Ant1	2.887	288.7	100	31600	400	Pass



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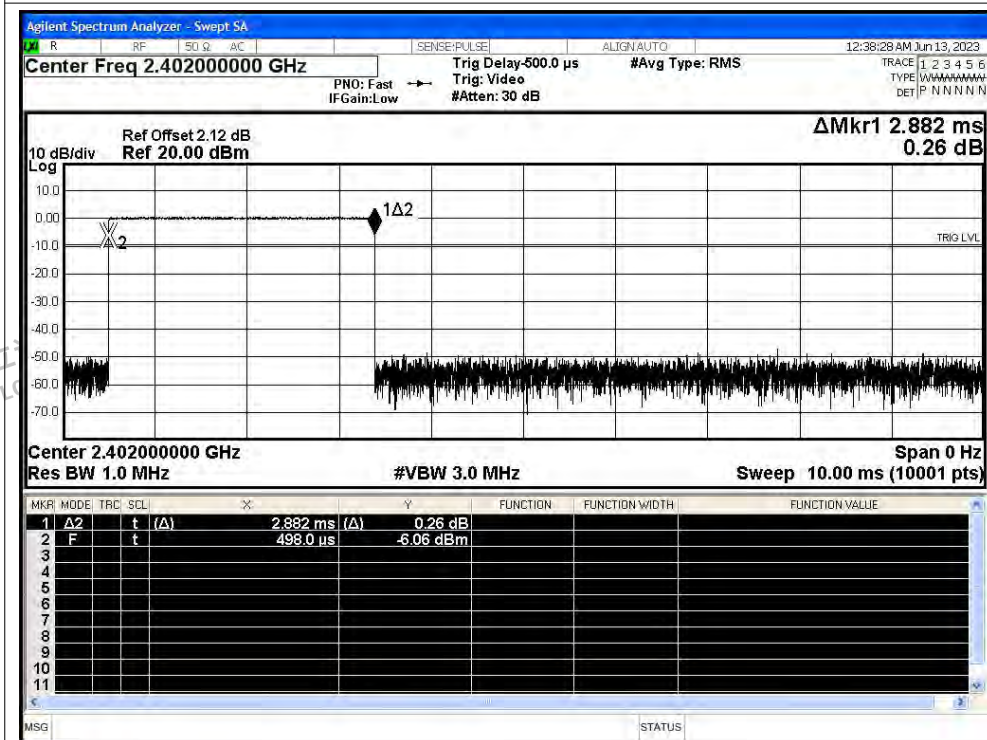
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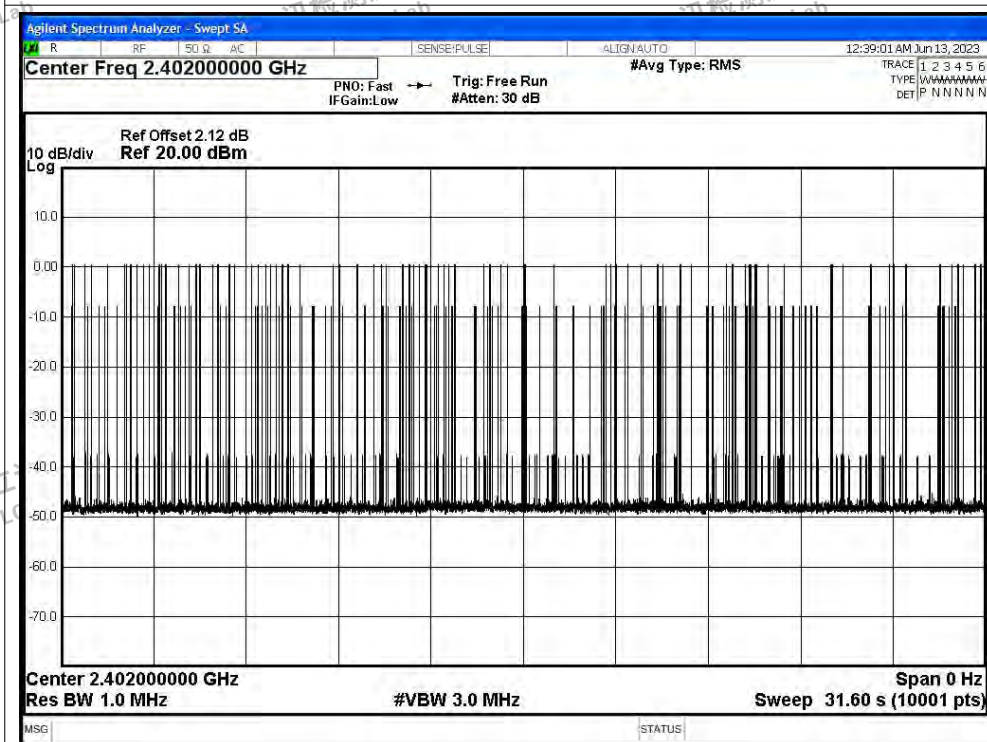


Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant1 One Burst



Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated



Shenzhen LCS Compliance Testing Laboratory Ltd.

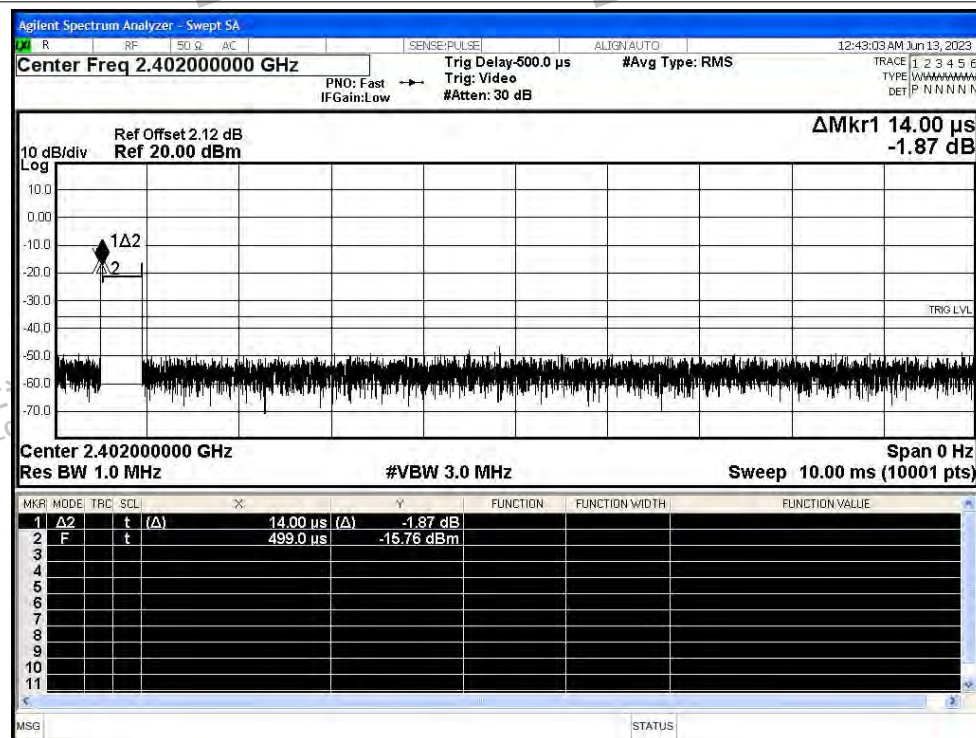
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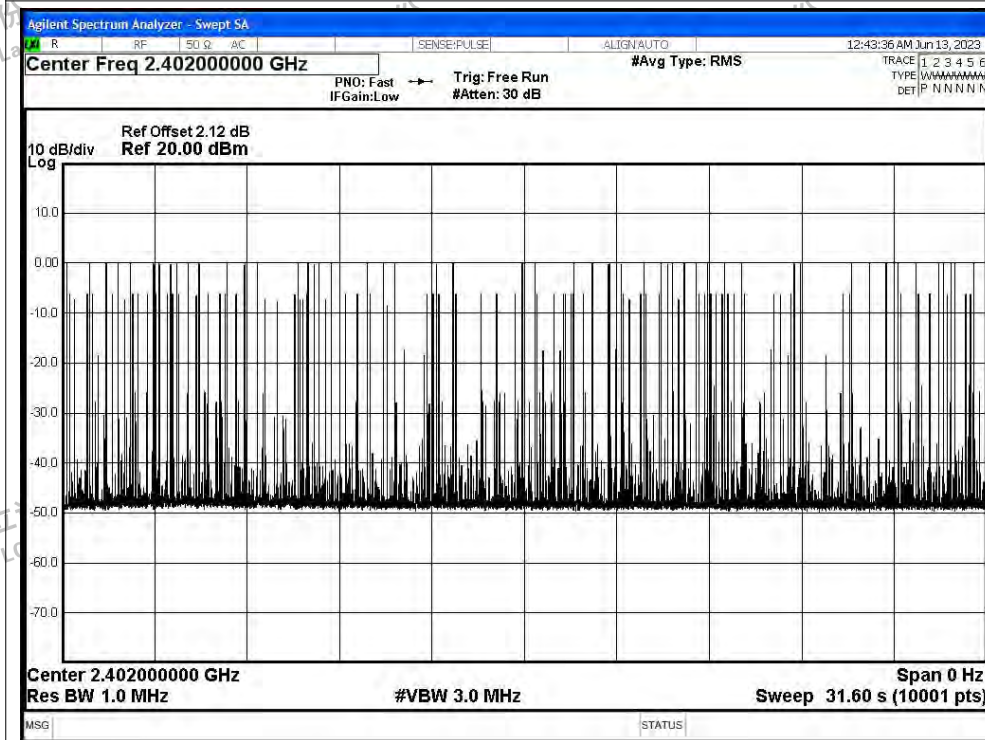
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Dwell NVNT 2-DH5 2402MHz Ant1 One Burst



Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated



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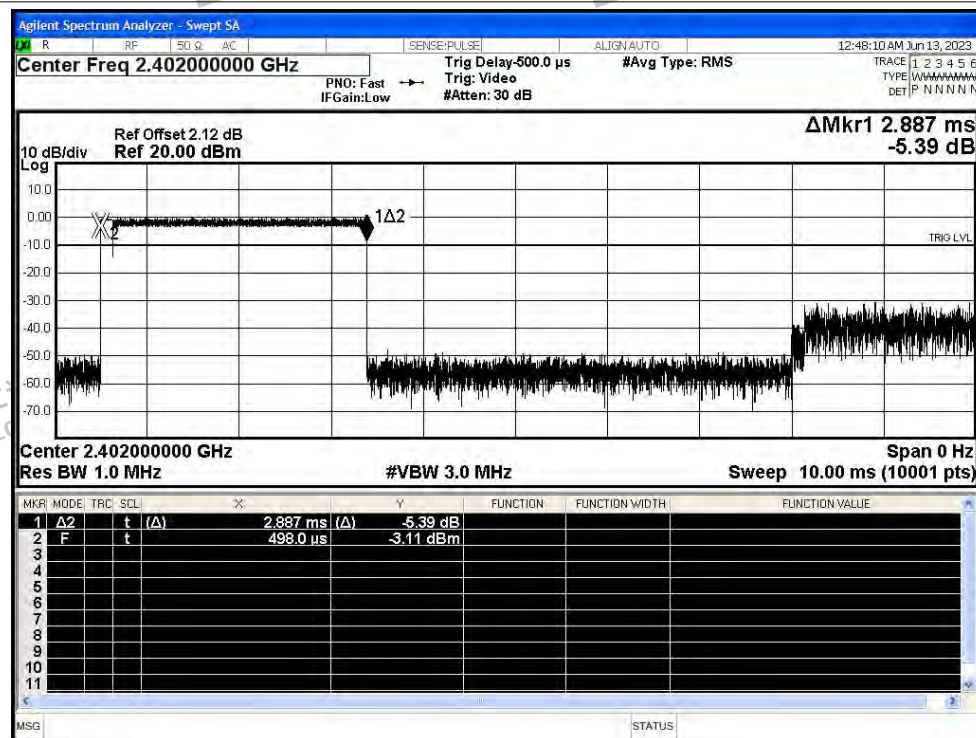
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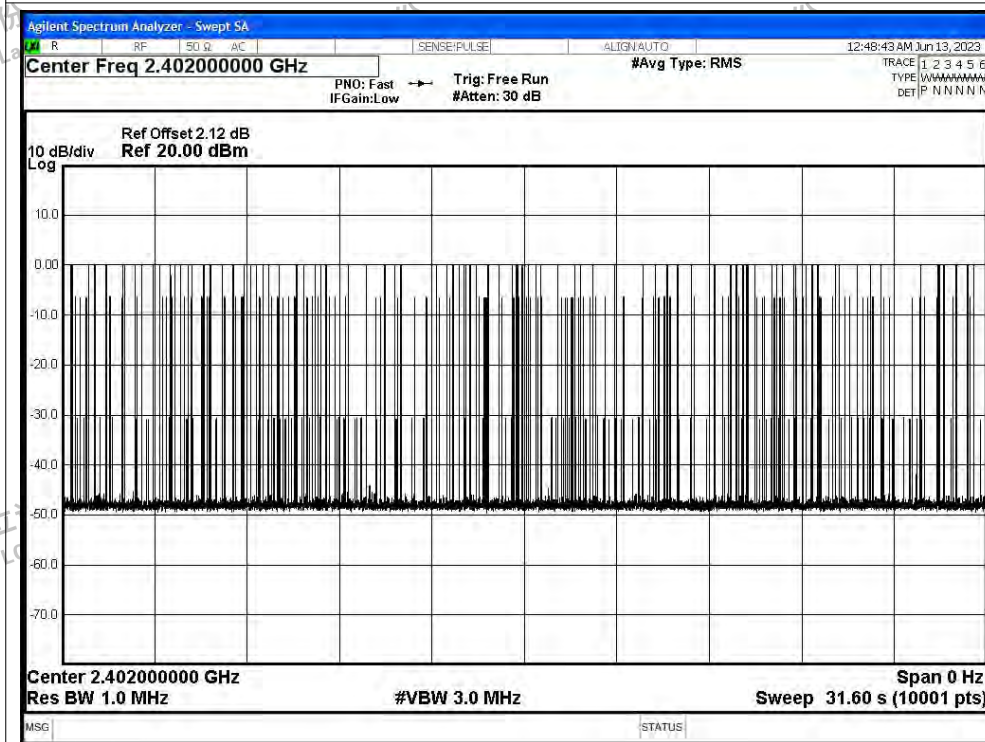
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Dwell NVNT 3-DH5 2402MHz Ant1 One Burst



Dwell NVNT 3-DH5 2402MHz Ant1 Accumulated



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A.5 Number of Hopping Channel

Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH5	Ant1	79	15	Pass
NVNT	2-DH5	Ant1	79	15	Pass
NVNT	3-DH5	Ant1	79	15	Pass



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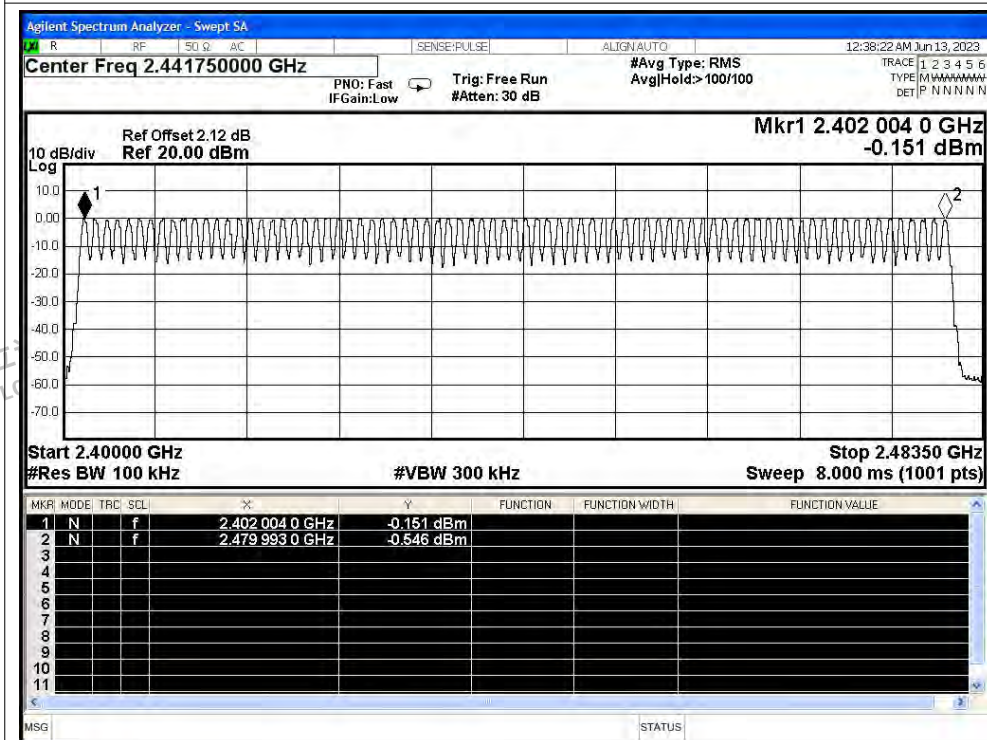
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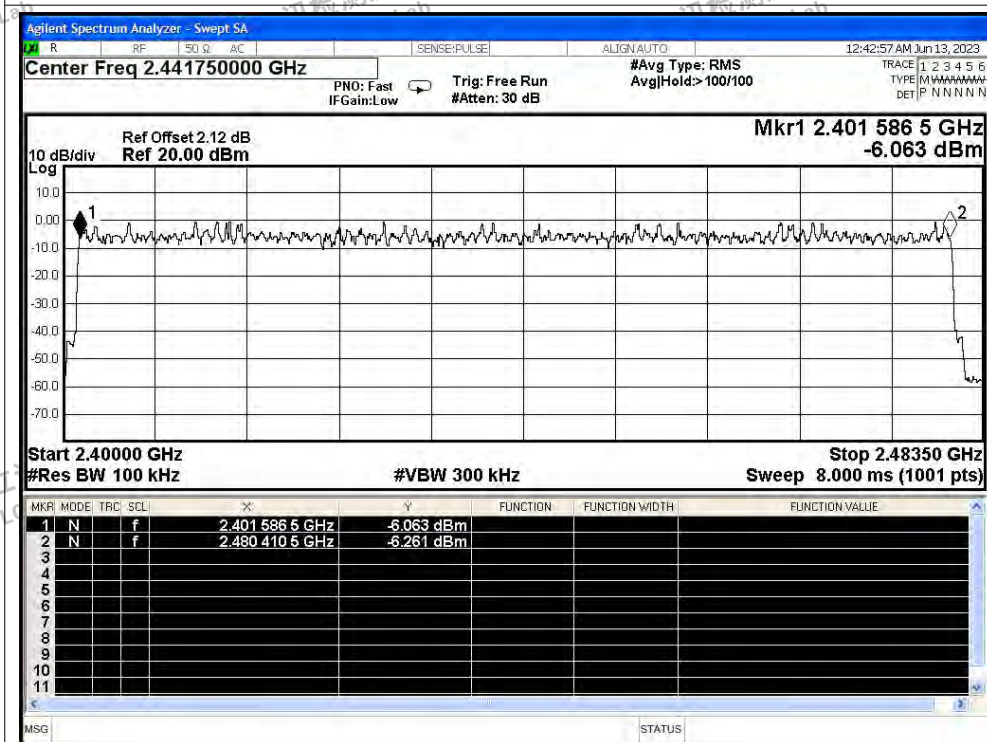


Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant1



Hopping No. NVNT 2-DH5 2402MHz Ant1



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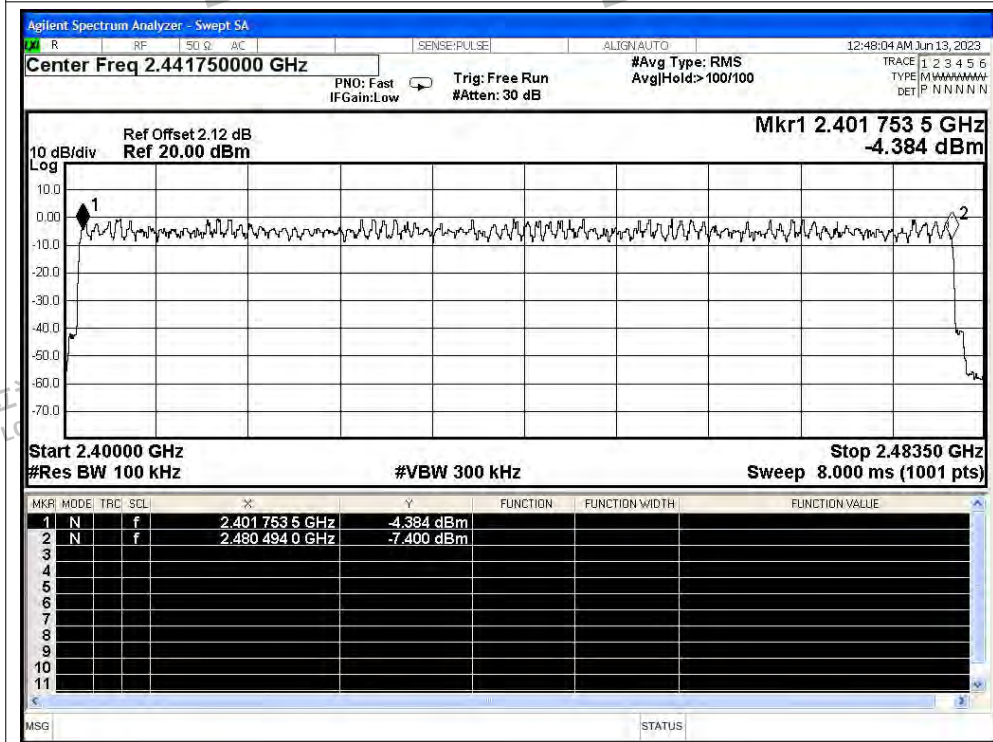
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Hopping No. NVNT 3-DH5 2402MHz Ant1



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A.6 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-56.7	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-56.92	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-53.06	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-55.14	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-54.21	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-56.56	-20	Pass



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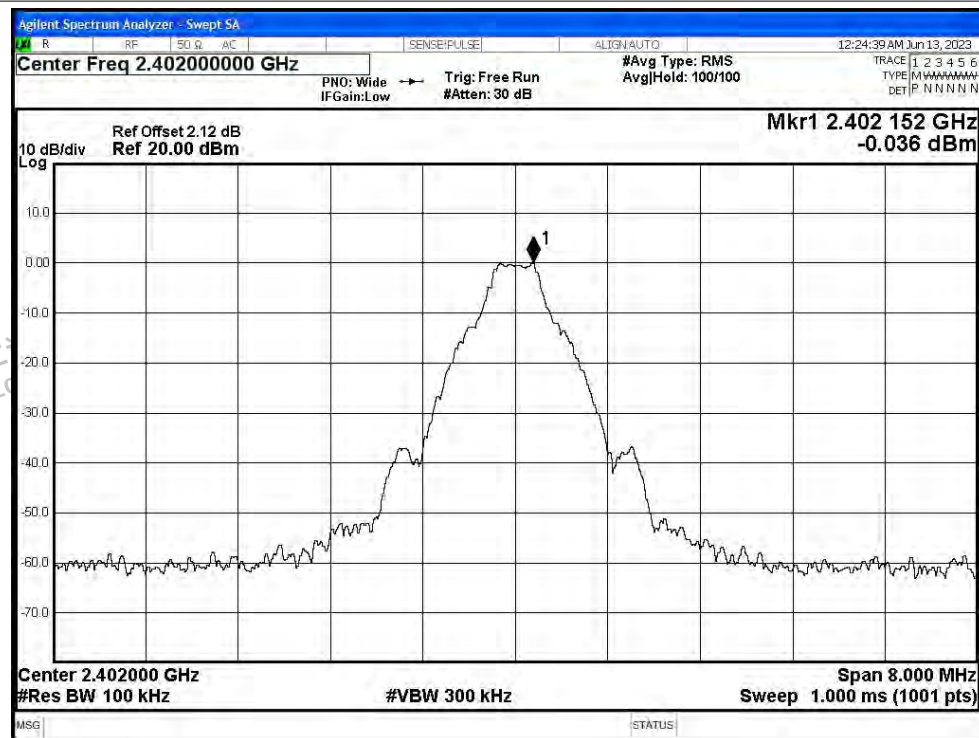
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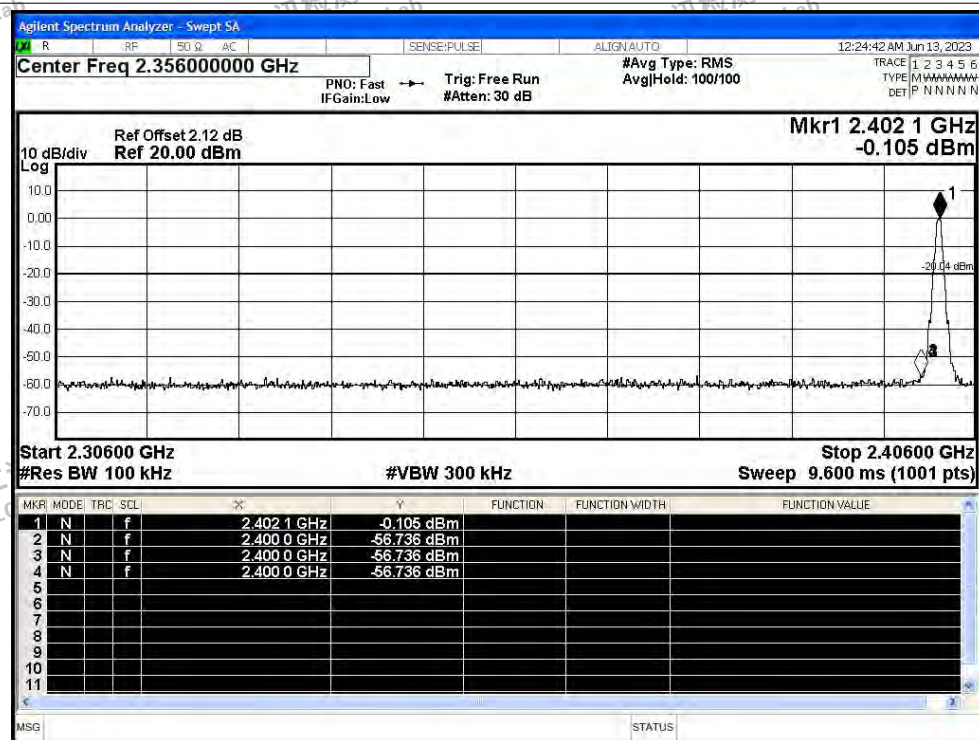


Test Graphs

Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Ref



Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission



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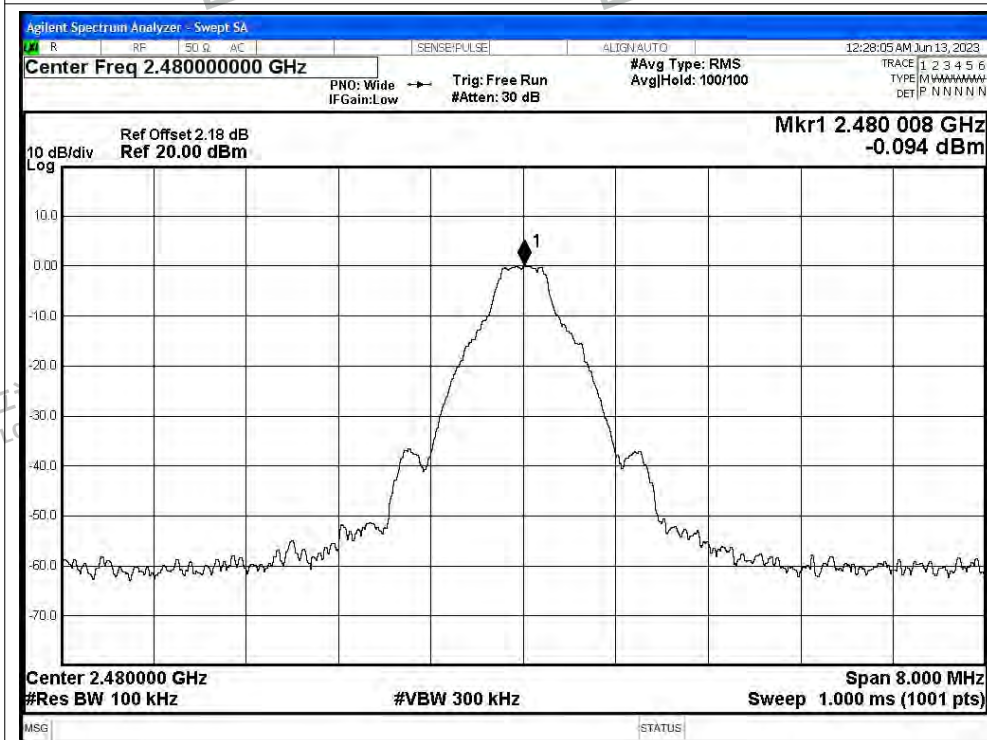
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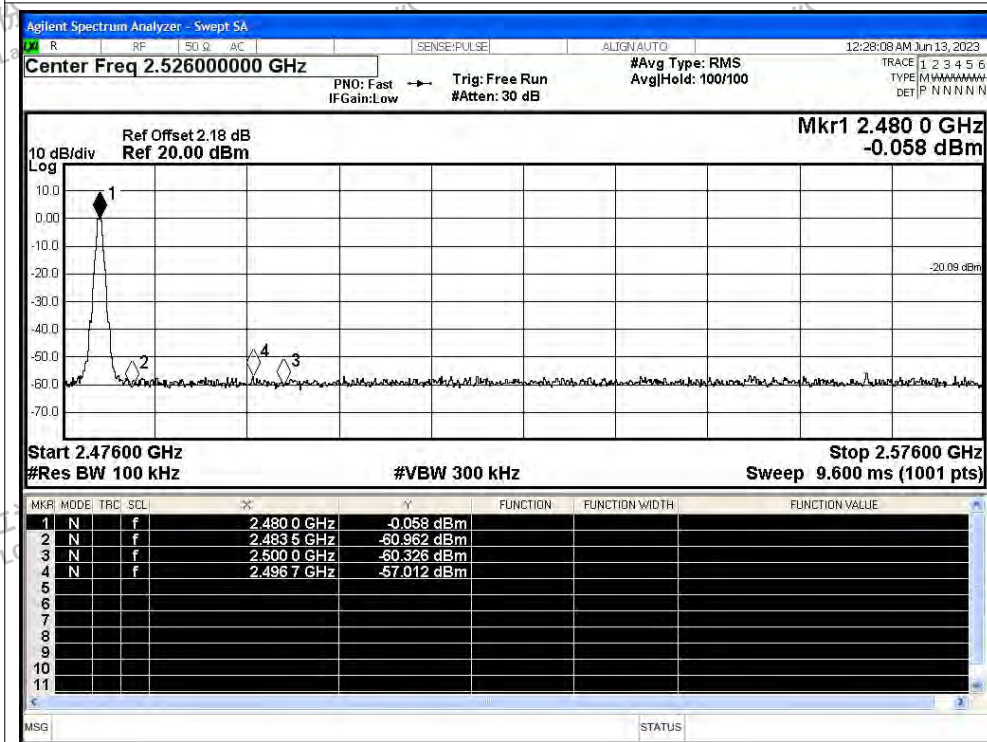
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Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref



Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission



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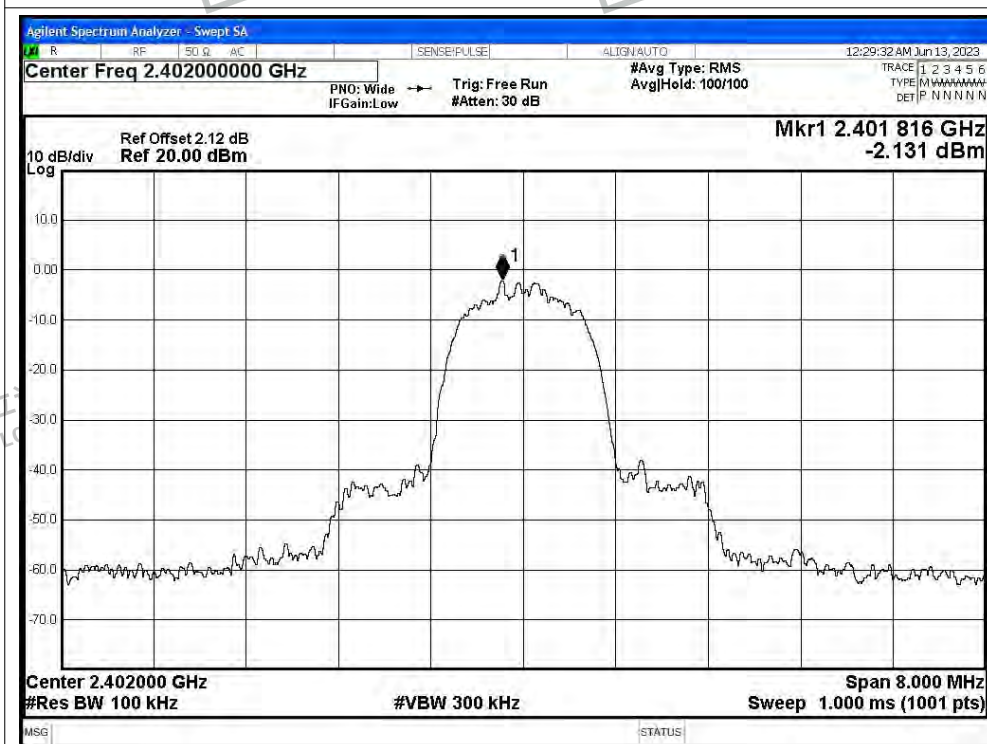
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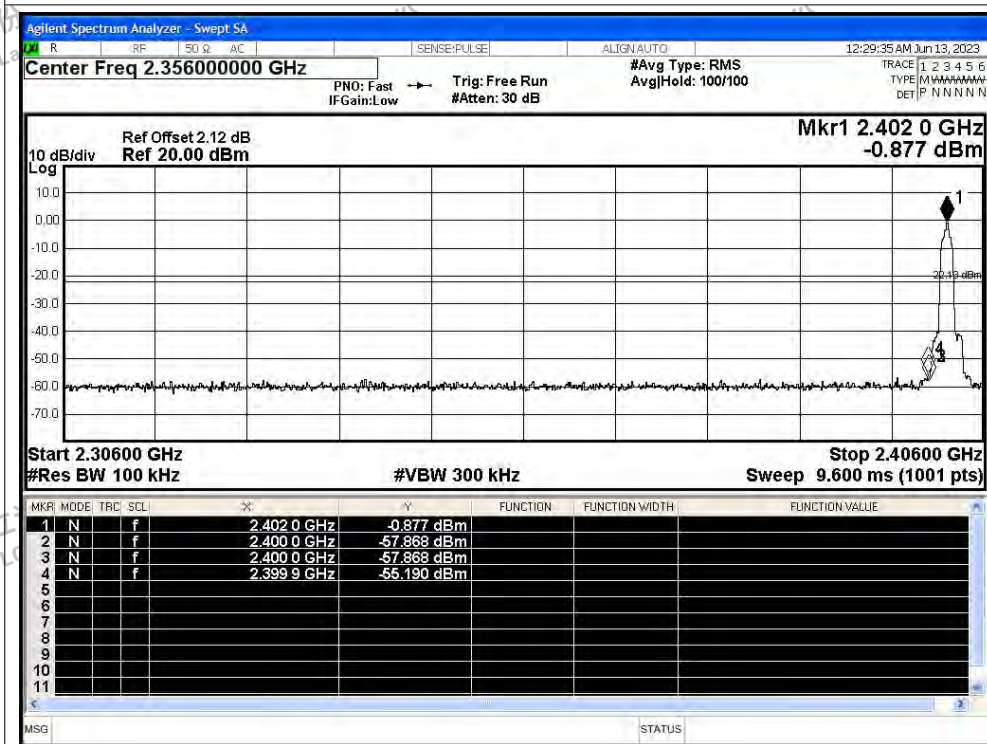
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Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref



Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission



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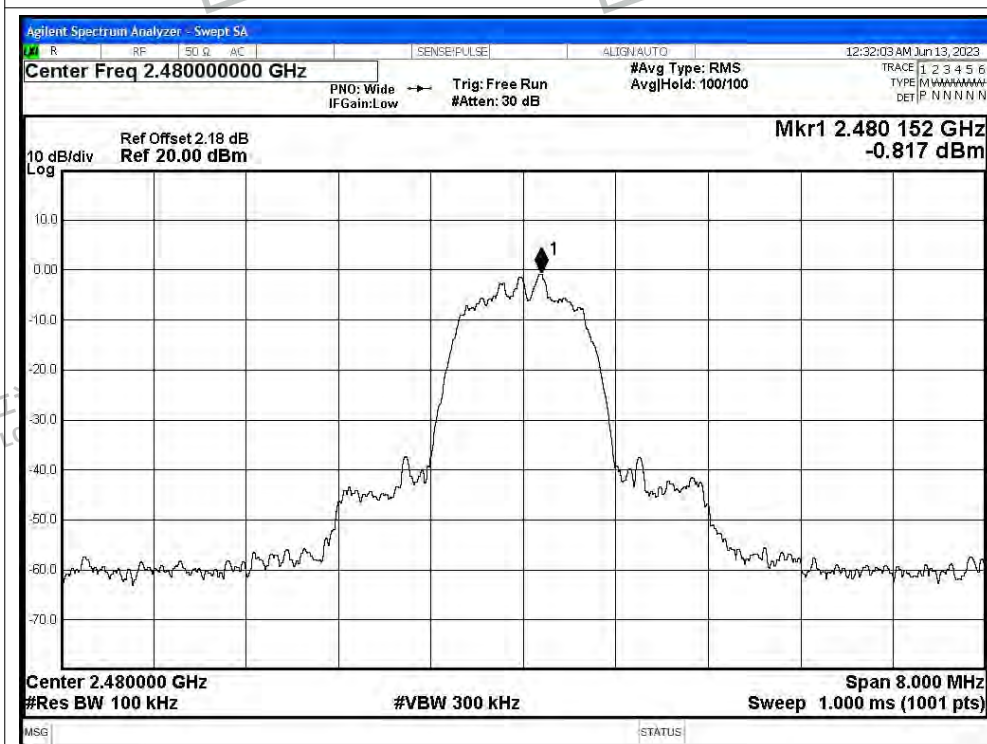
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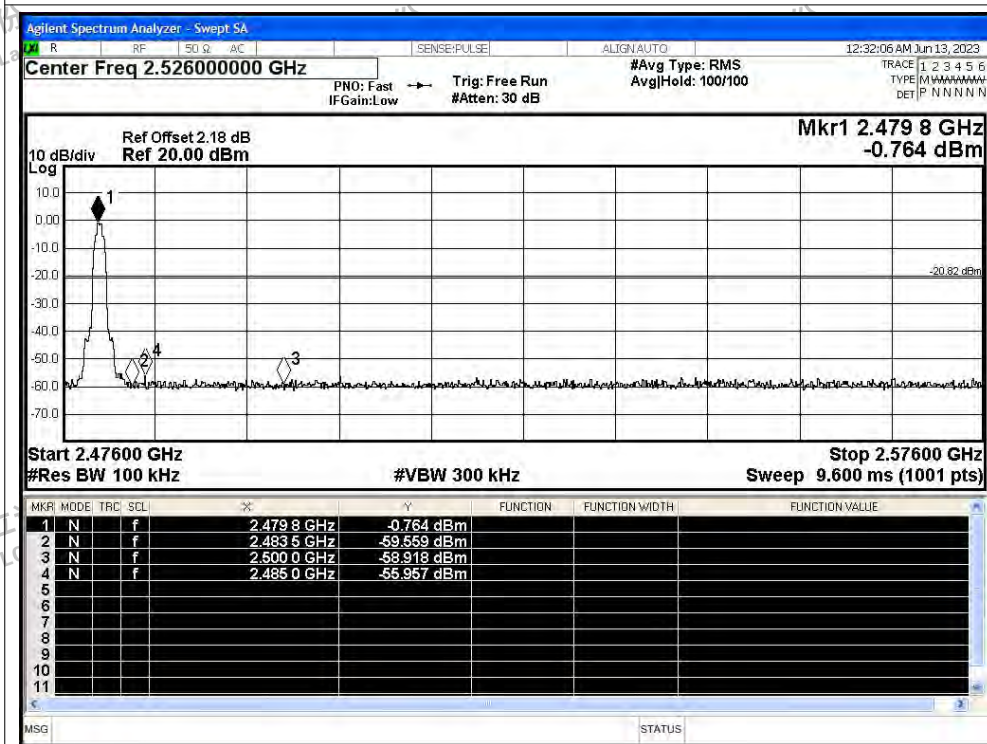
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Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref



Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Emission



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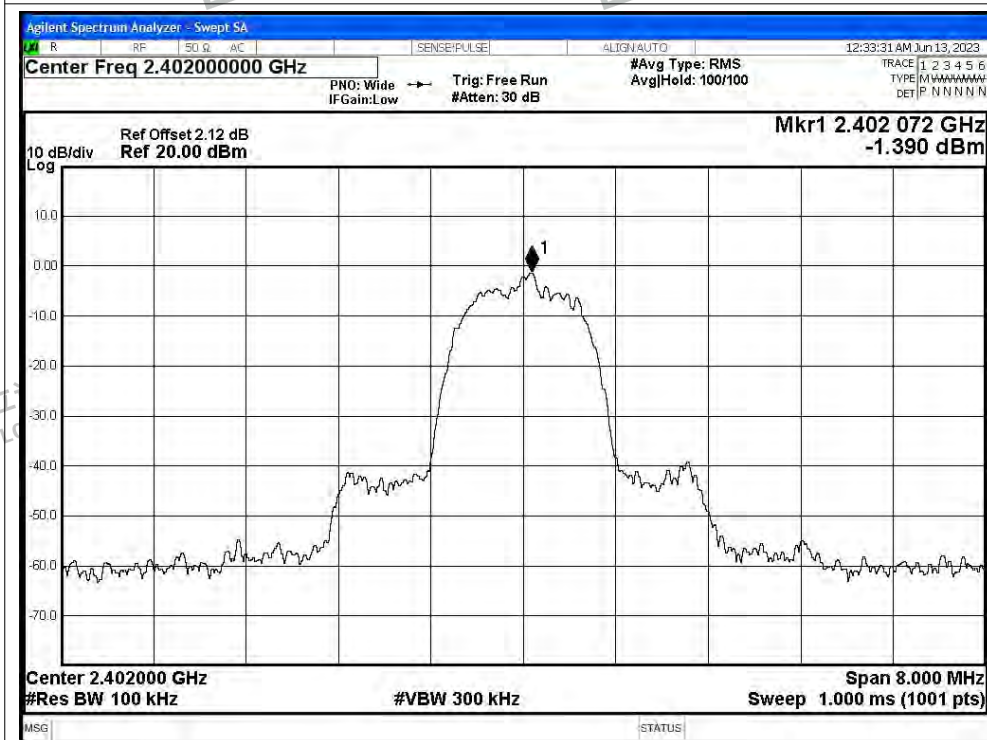
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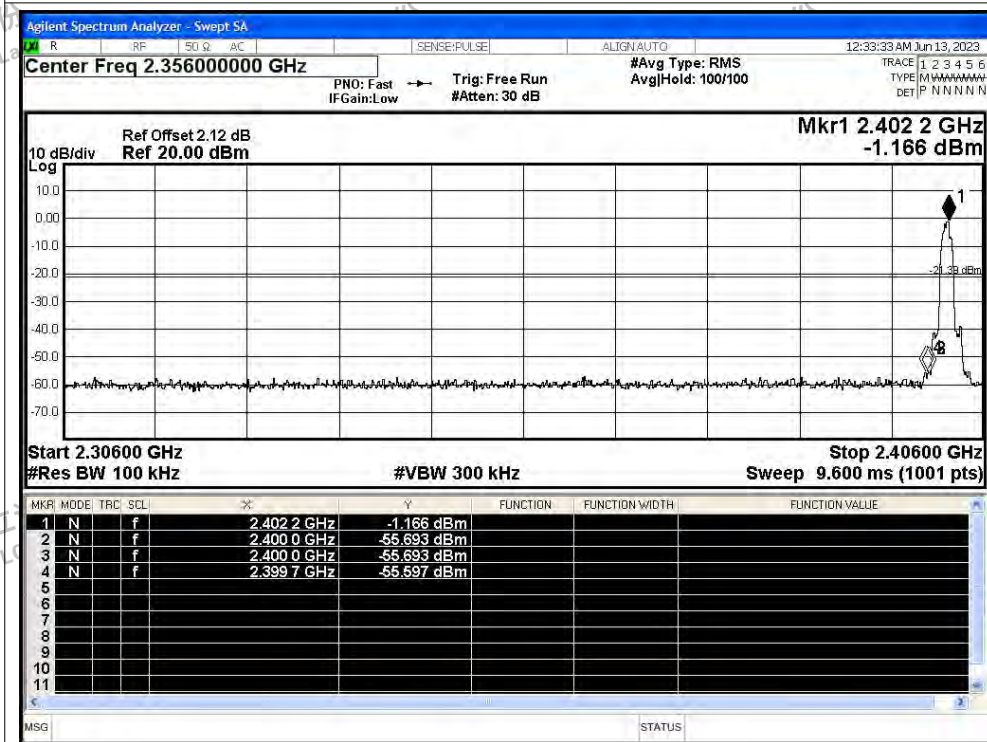
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Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Ref



Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Emission



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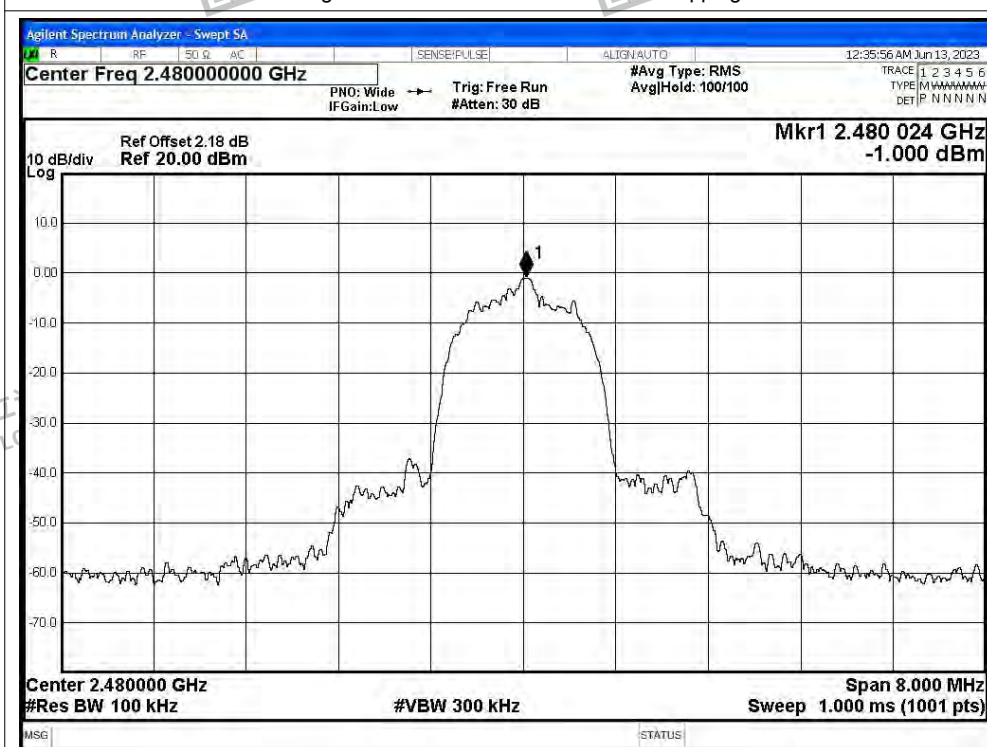
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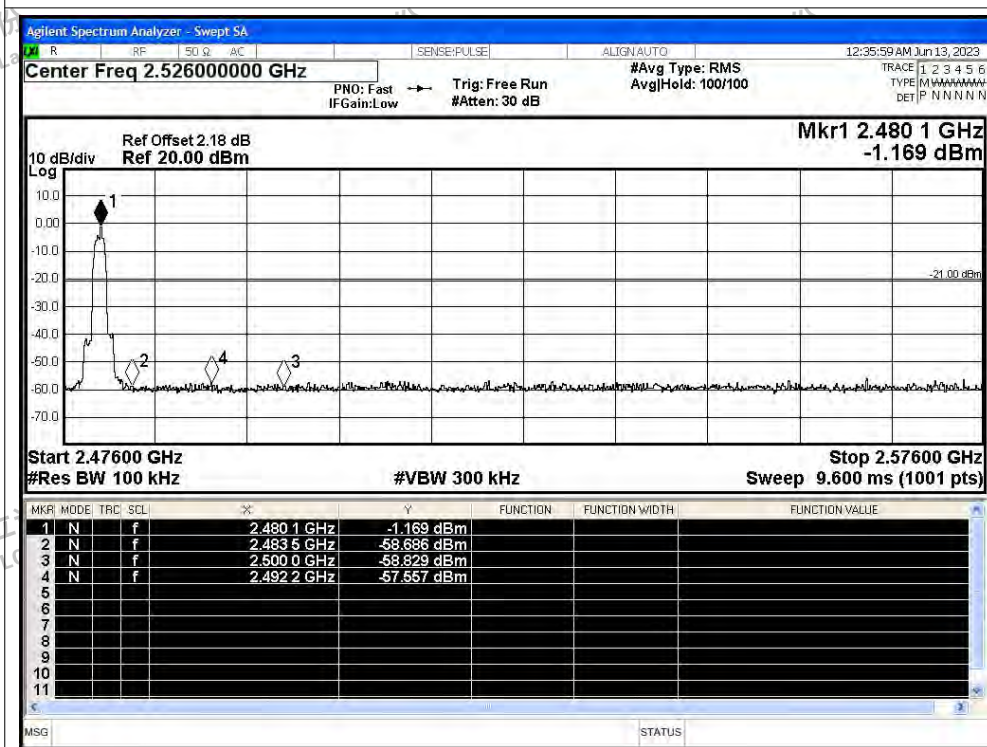
Scan code to check authenticity



Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Ref



Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Emission



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(Hopping)

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-55.42	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-55.83	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-53.55	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-55.18	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-54.77	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-54.29	-20	Pass



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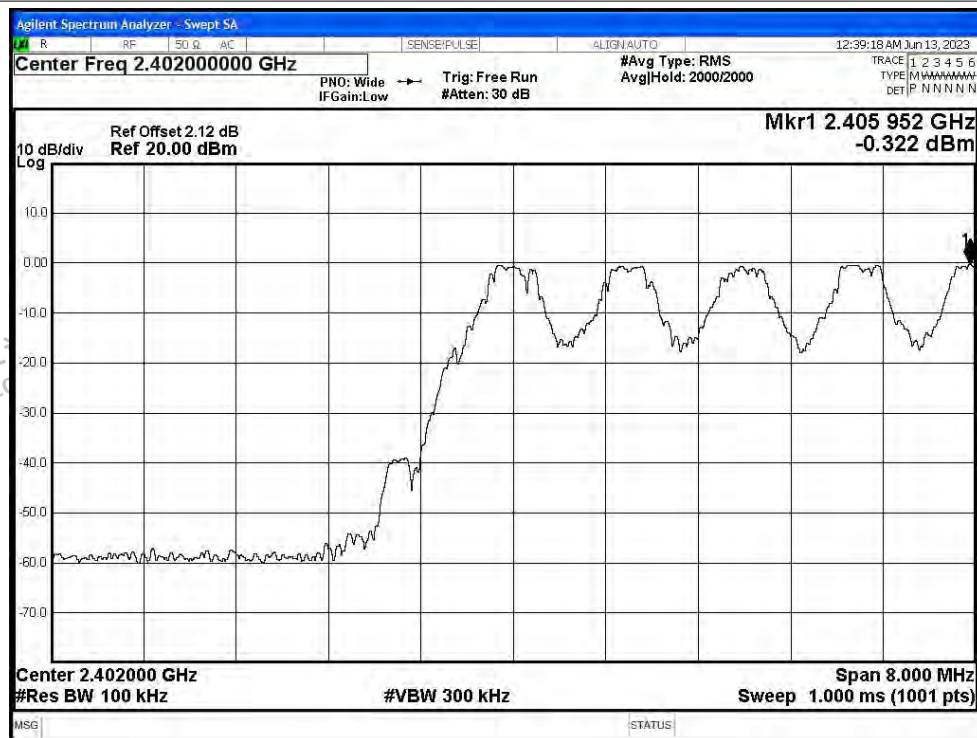
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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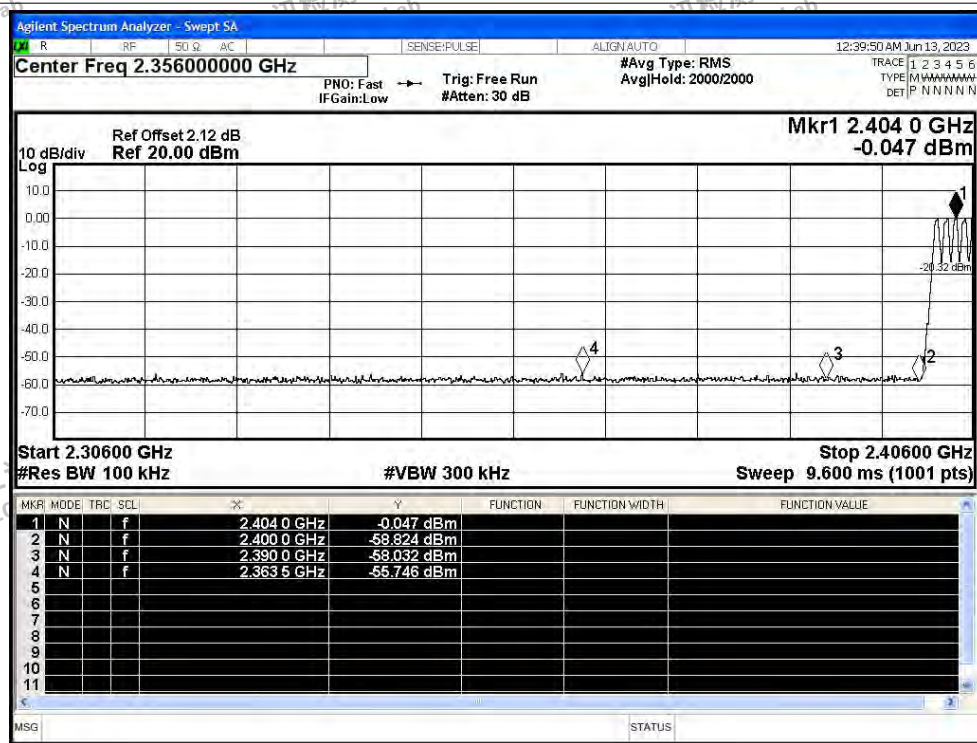


Test Graphs

Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Ref



Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

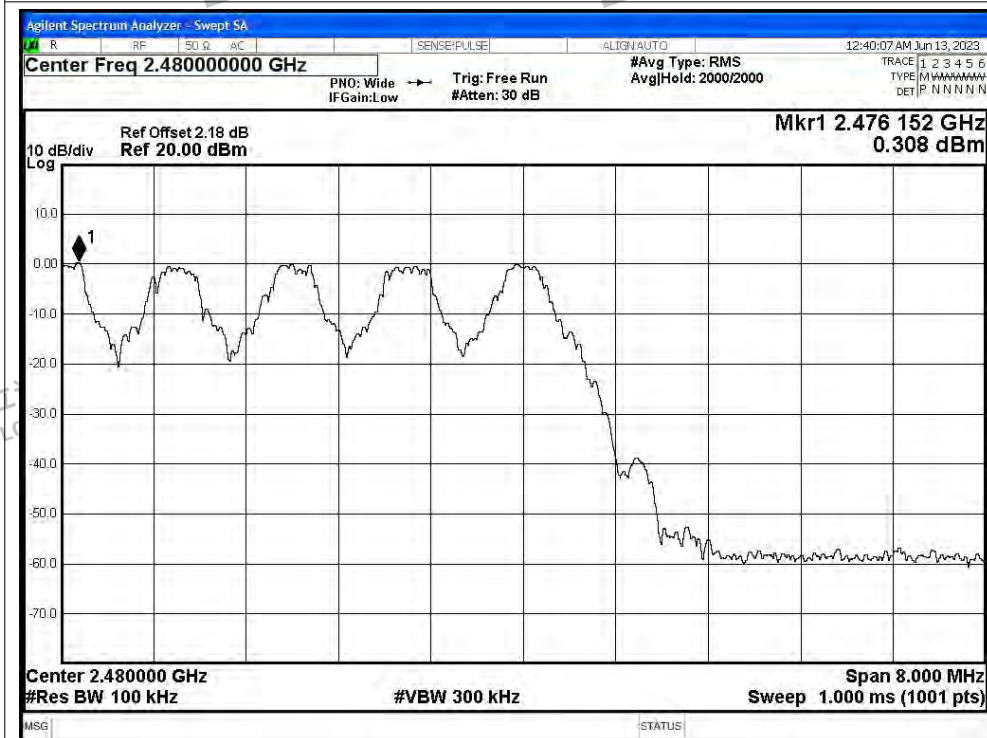
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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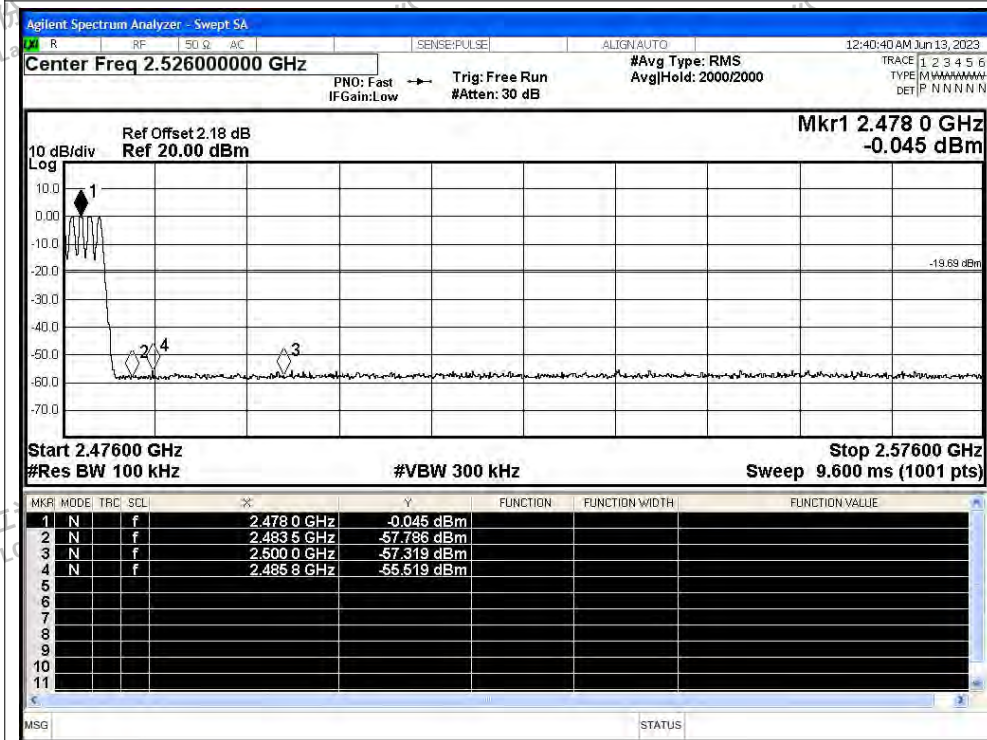
Scan code to check authenticity



Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Ref



Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

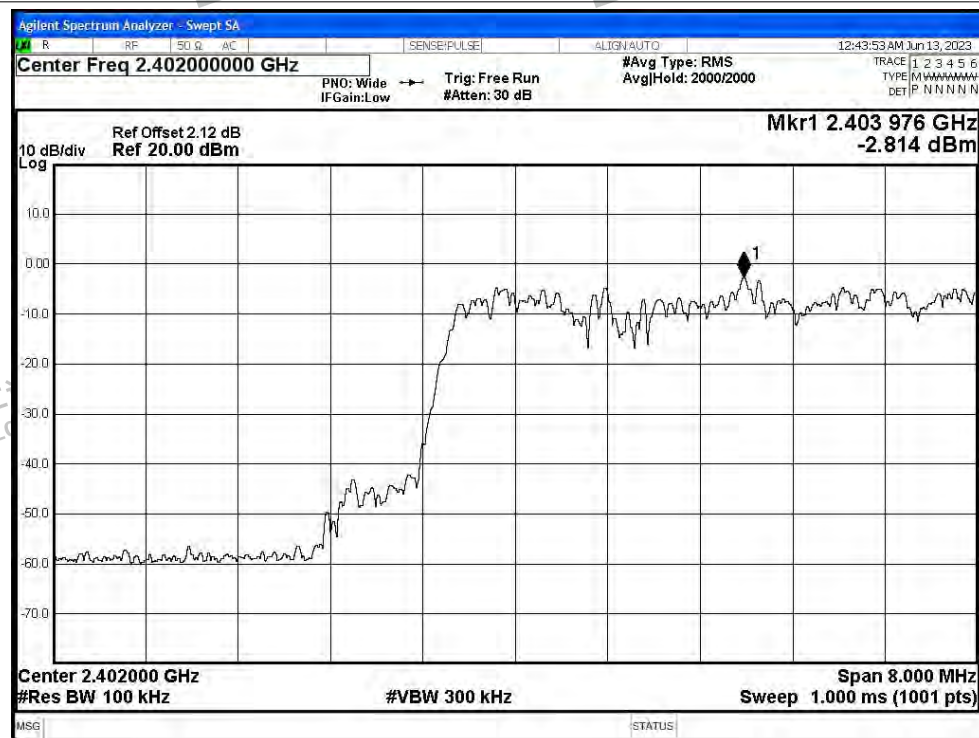
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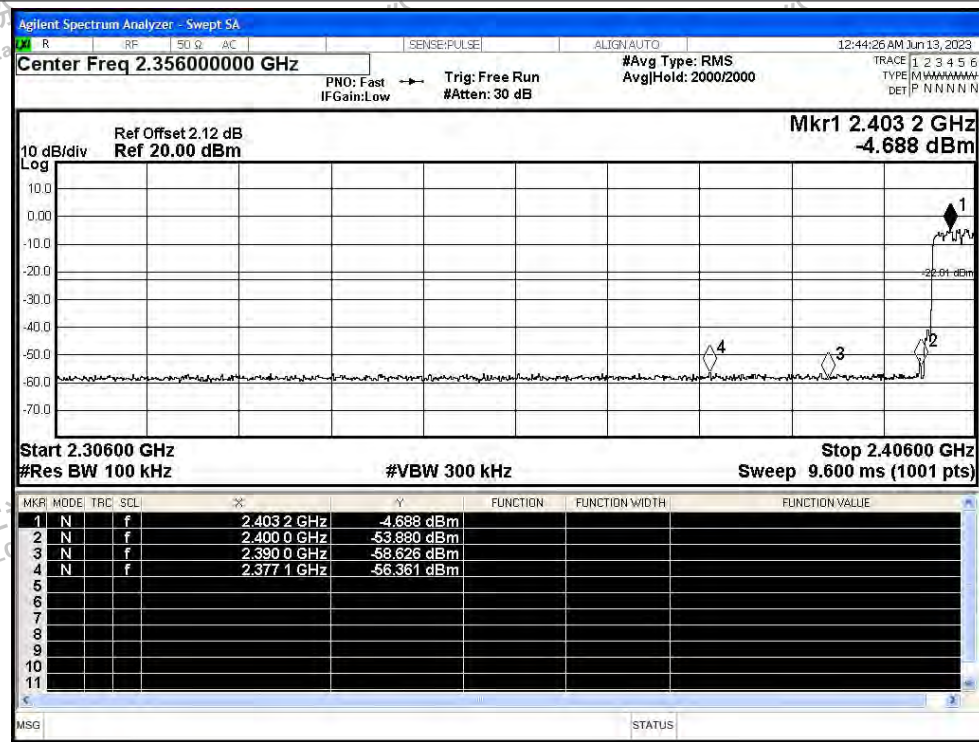
Scan code to check authenticity



Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Ref



Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Emission



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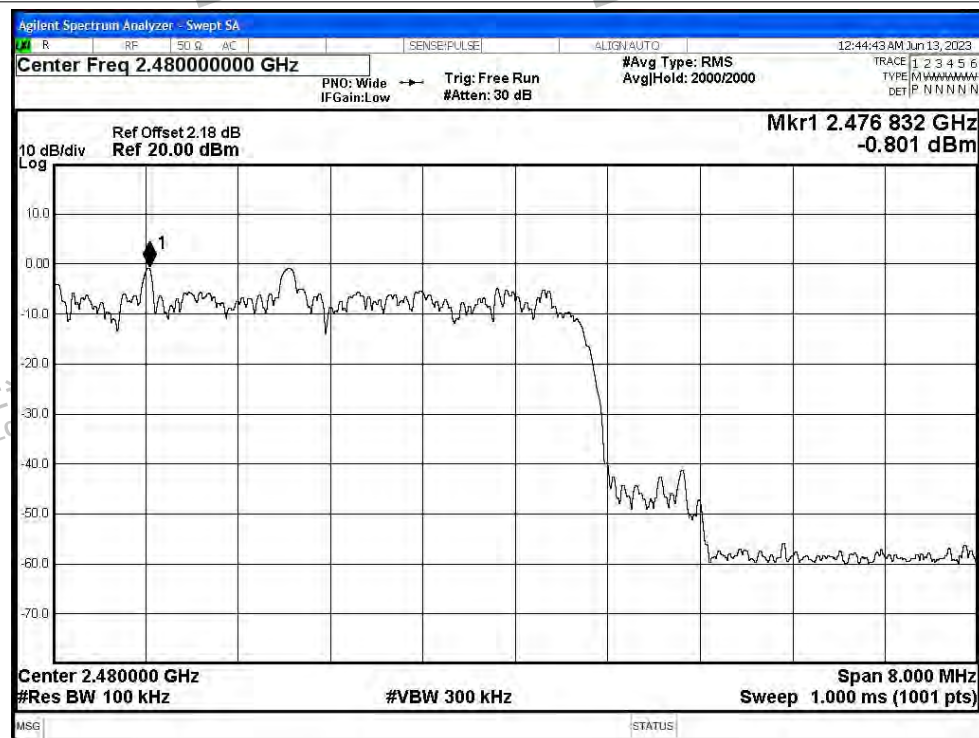
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

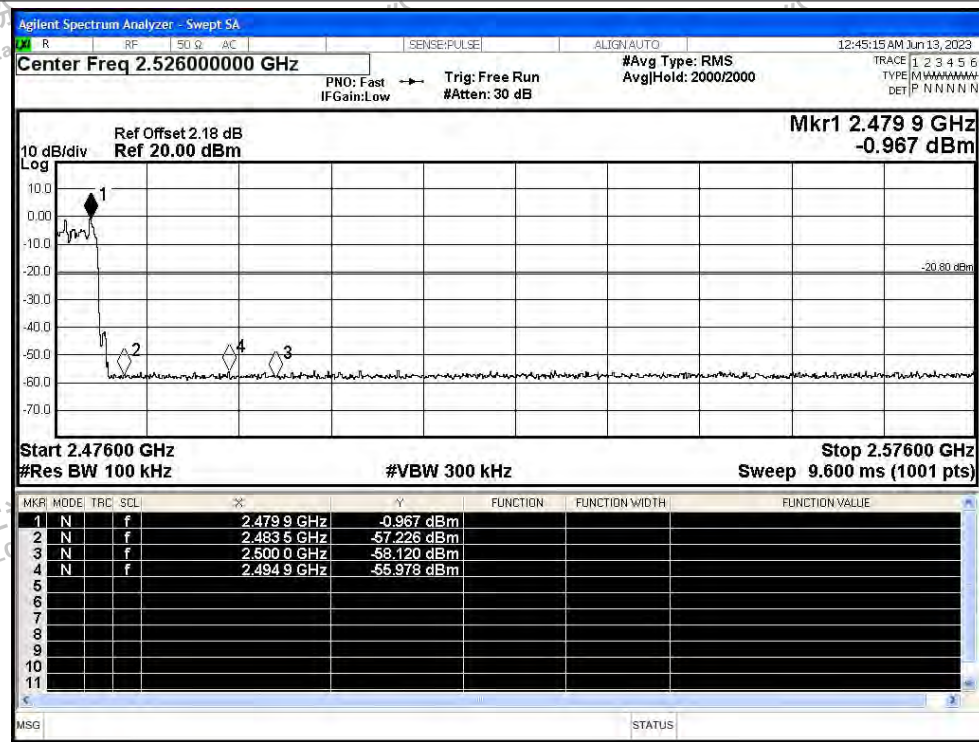
Scan code to check authenticity



Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Ref



Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

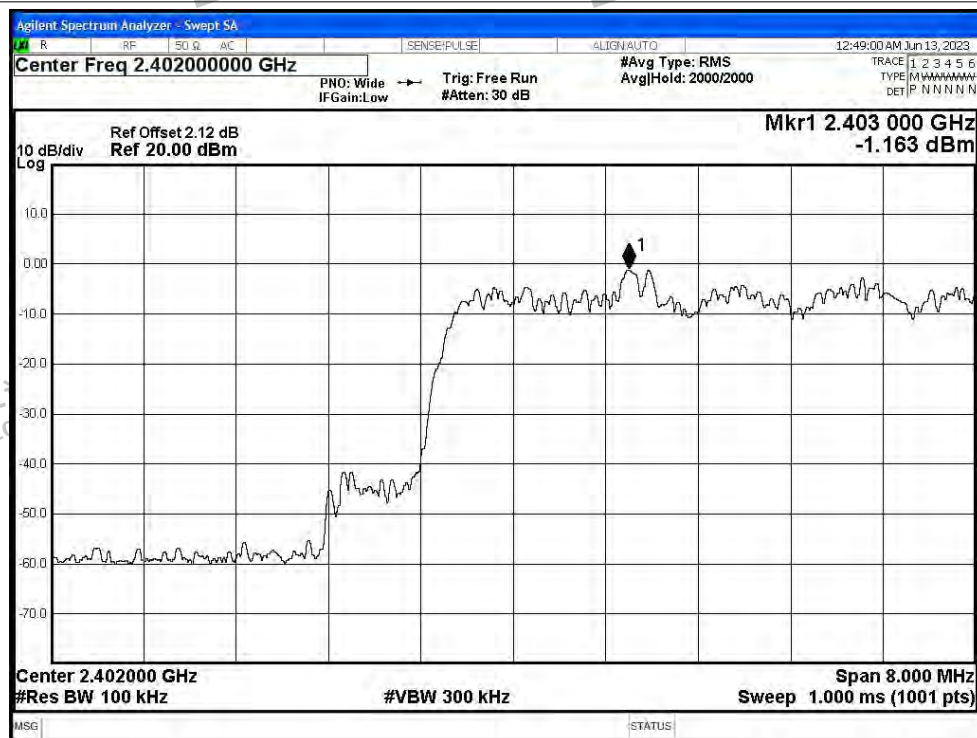
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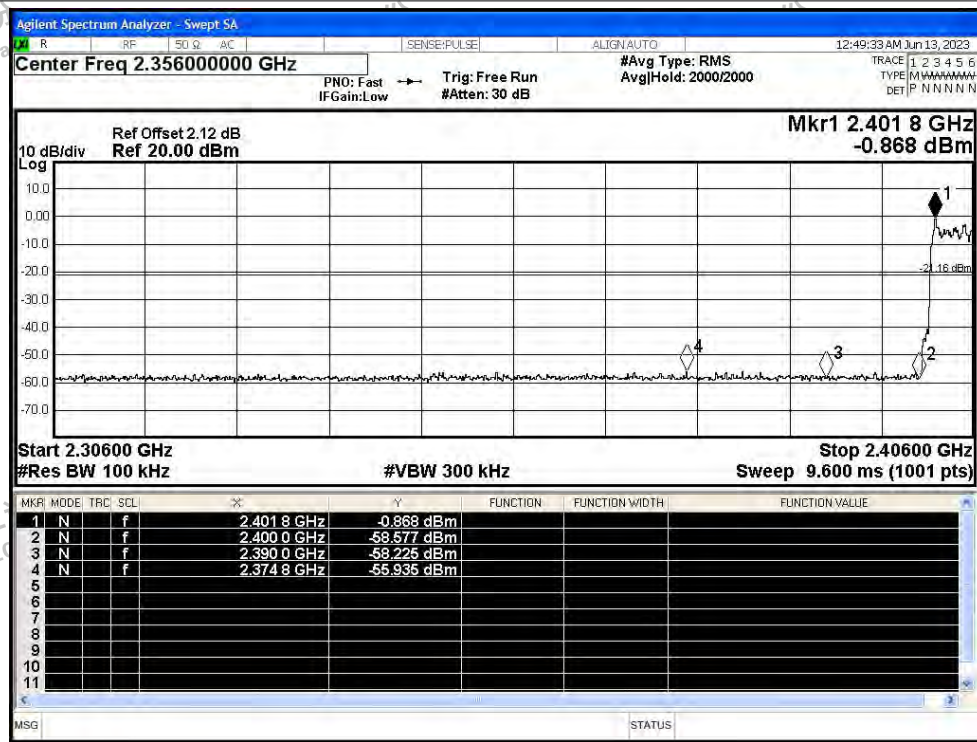
Scan code to check authenticity



Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Ref



Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

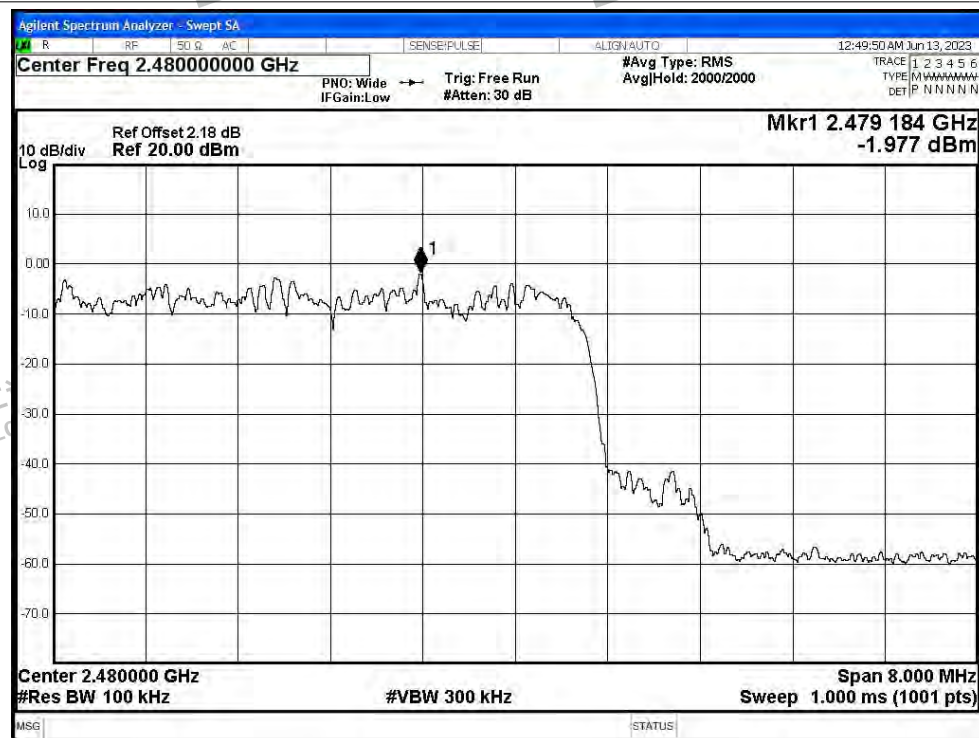
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

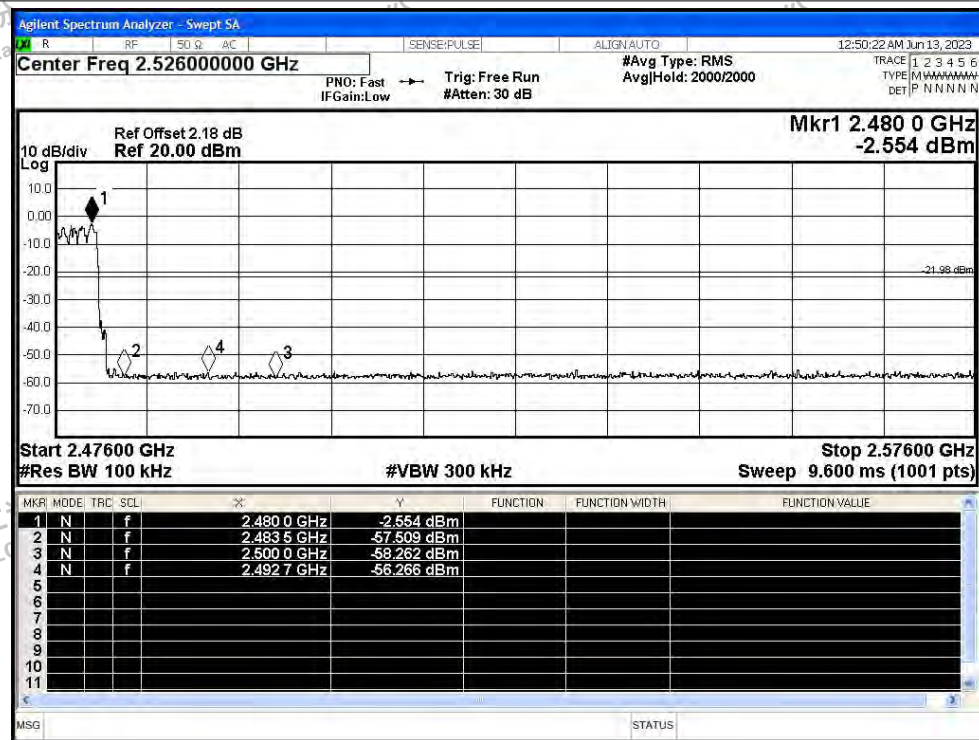
Scan code to check authenticity



Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Ref



Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Emission



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A.7 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-55.38	-20	Pass
NVNT	1-DH5	2441	Ant1	-53.53	-20	Pass
NVNT	1-DH5	2480	Ant1	-56.07	-20	Pass
NVNT	2-DH5	2402	Ant1	-47.52	-20	Pass
NVNT	2-DH5	2441	Ant1	-54.83	-20	Pass
NVNT	2-DH5	2480	Ant1	-52.91	-20	Pass
NVNT	3-DH5	2402	Ant1	-54.06	-20	Pass
NVNT	3-DH5	2441	Ant1	-48.04	-20	Pass
NVNT	3-DH5	2480	Ant1	-54.7	-20	Pass



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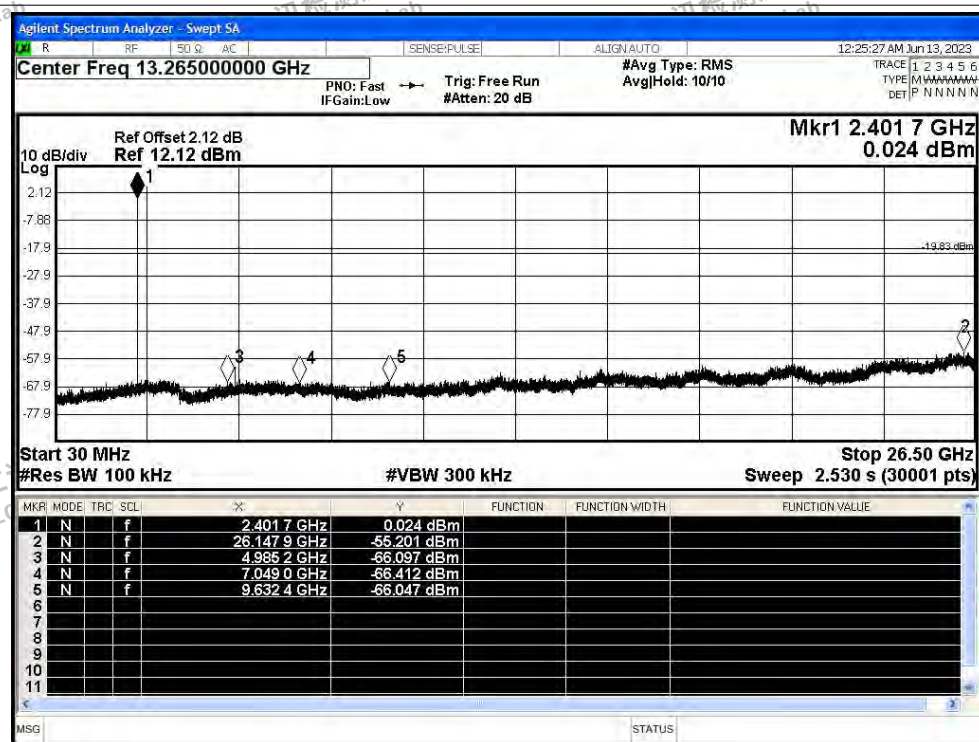


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission



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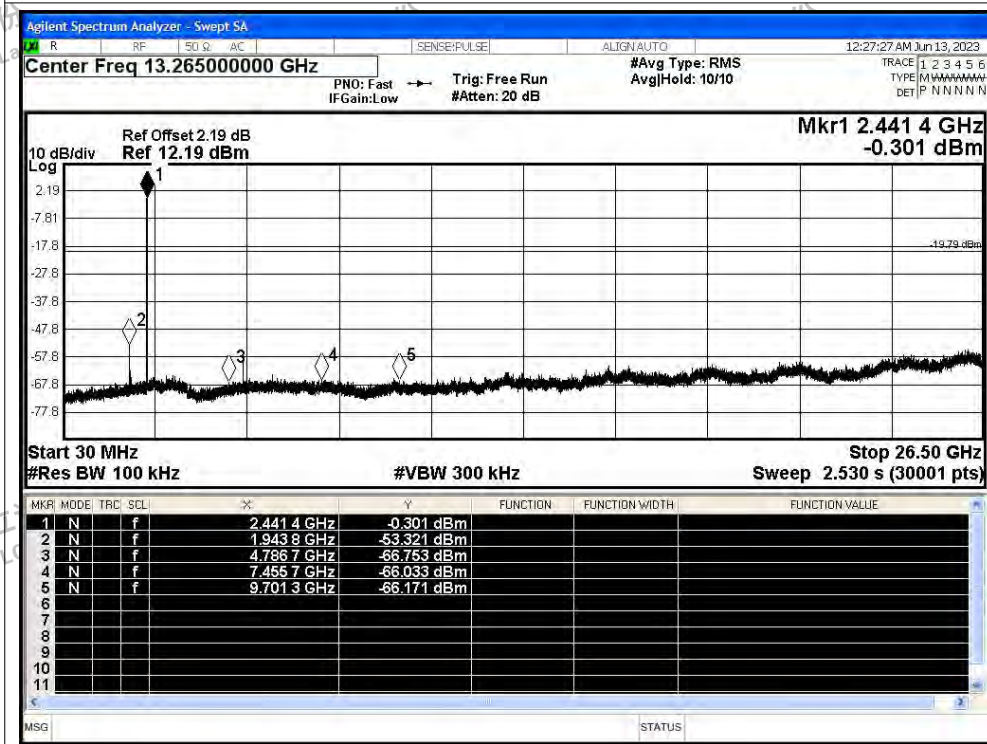
Scan code to check authenticity



Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission



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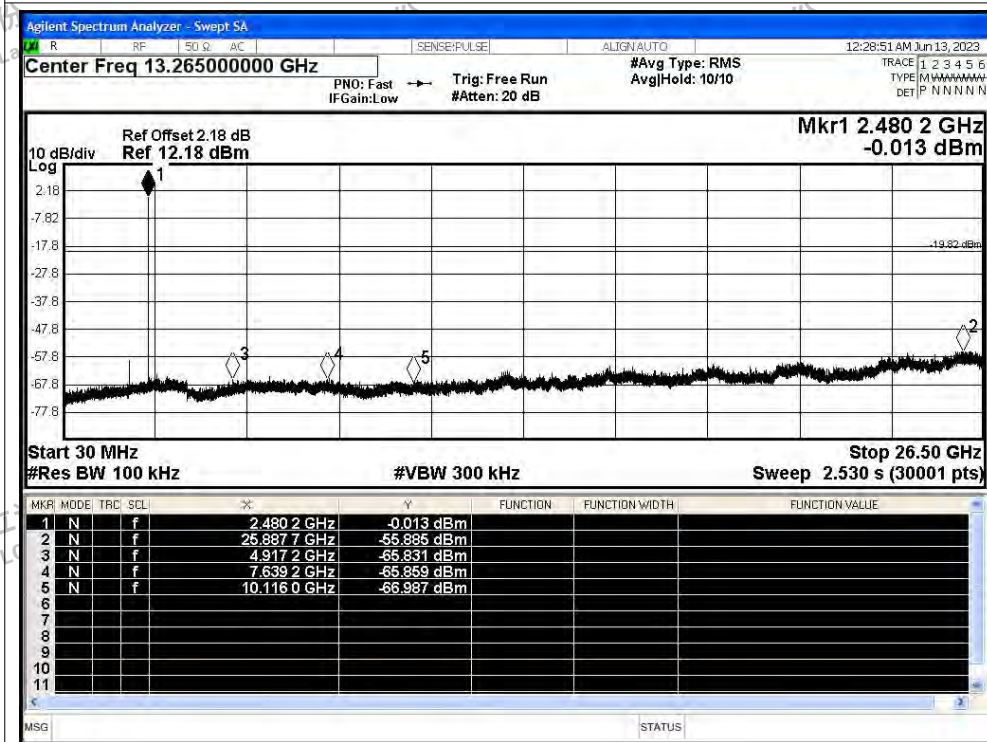
Scan code to check authenticity



Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

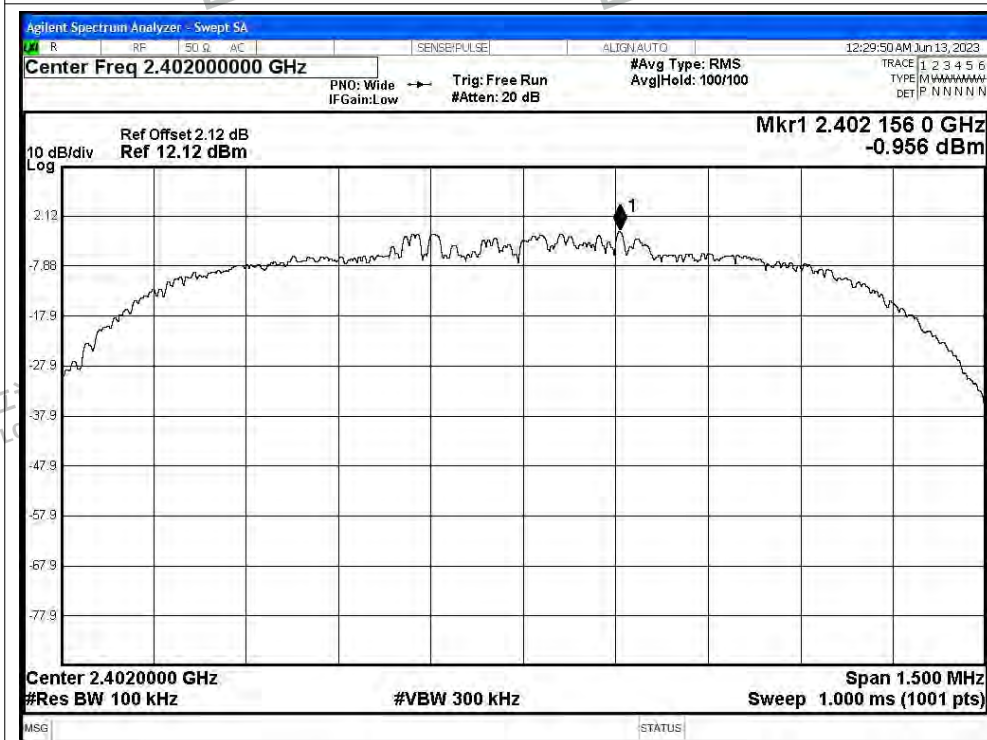
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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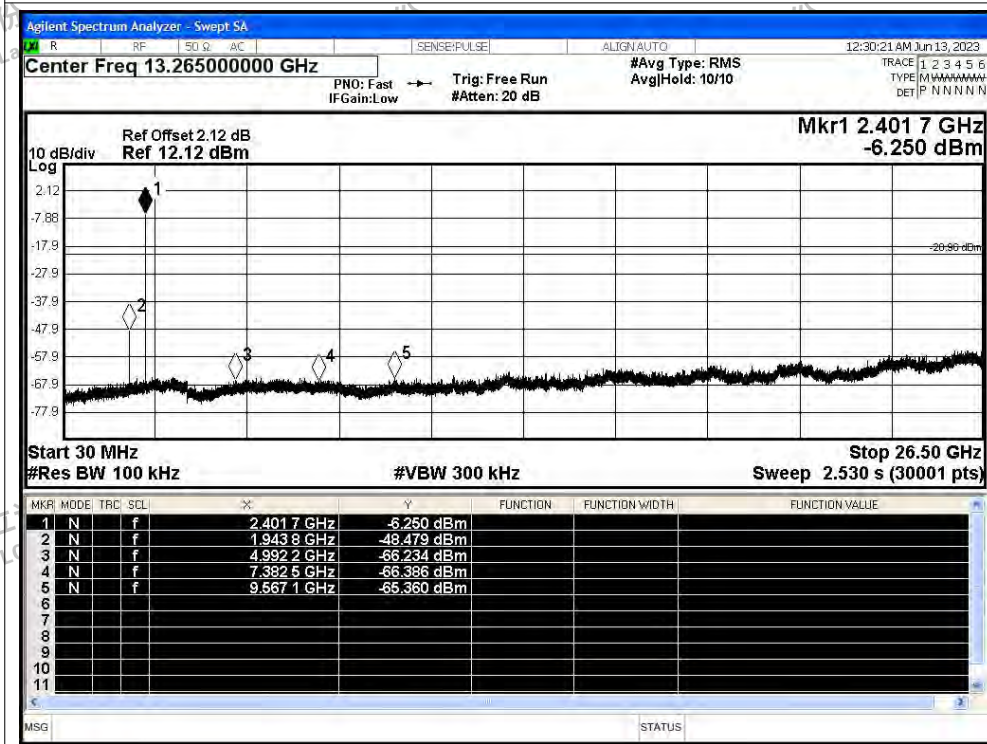
Scan code to check authenticity



Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

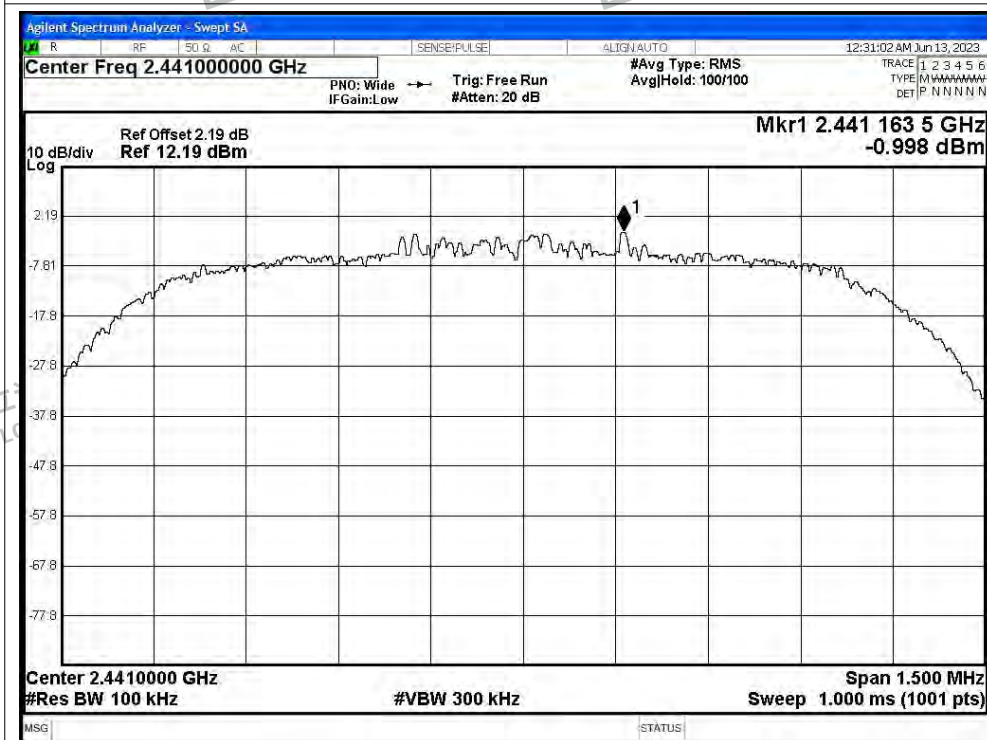
Add: 101, 201 Bldg A & 301, Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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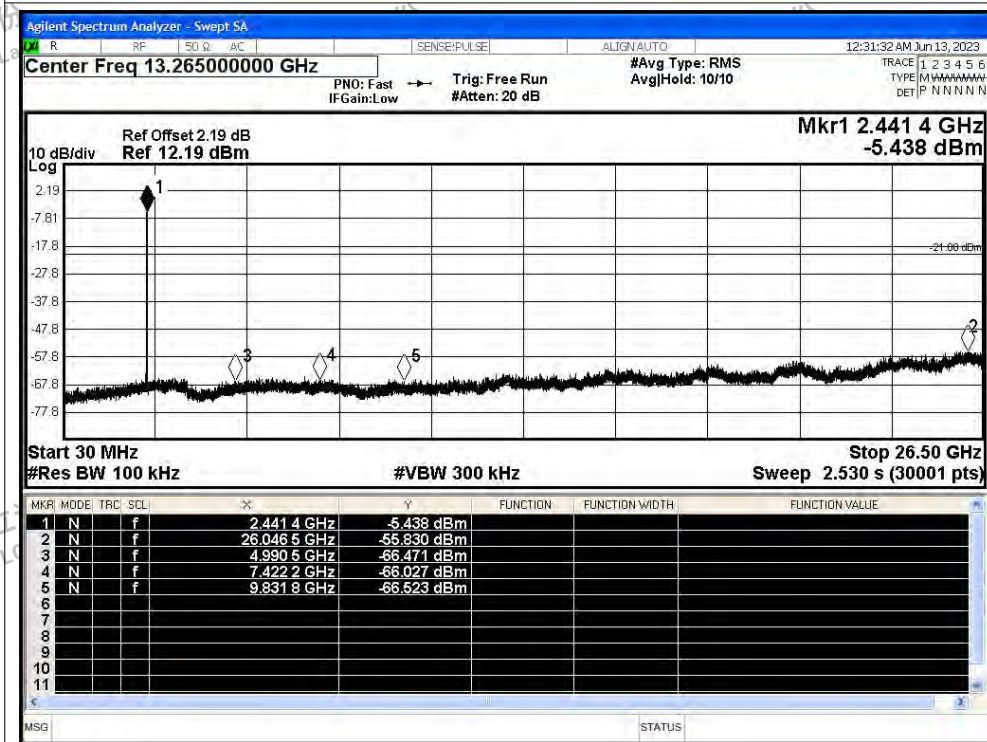
Scan code to check authenticity



Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

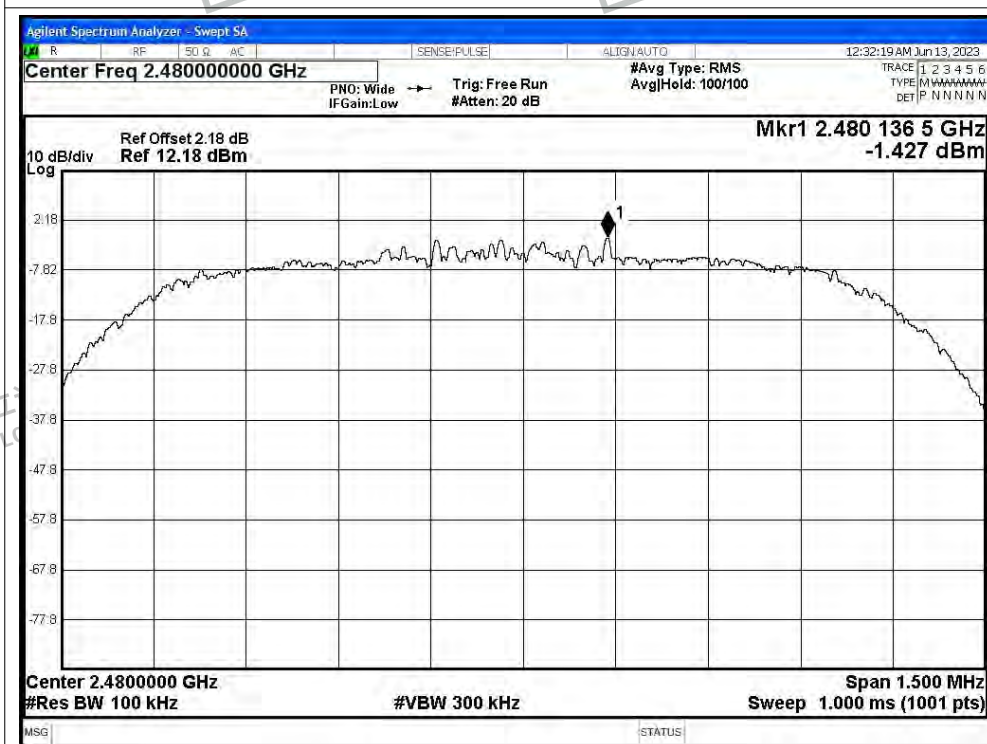
Add: 101, 201 Bldg A & 301, Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

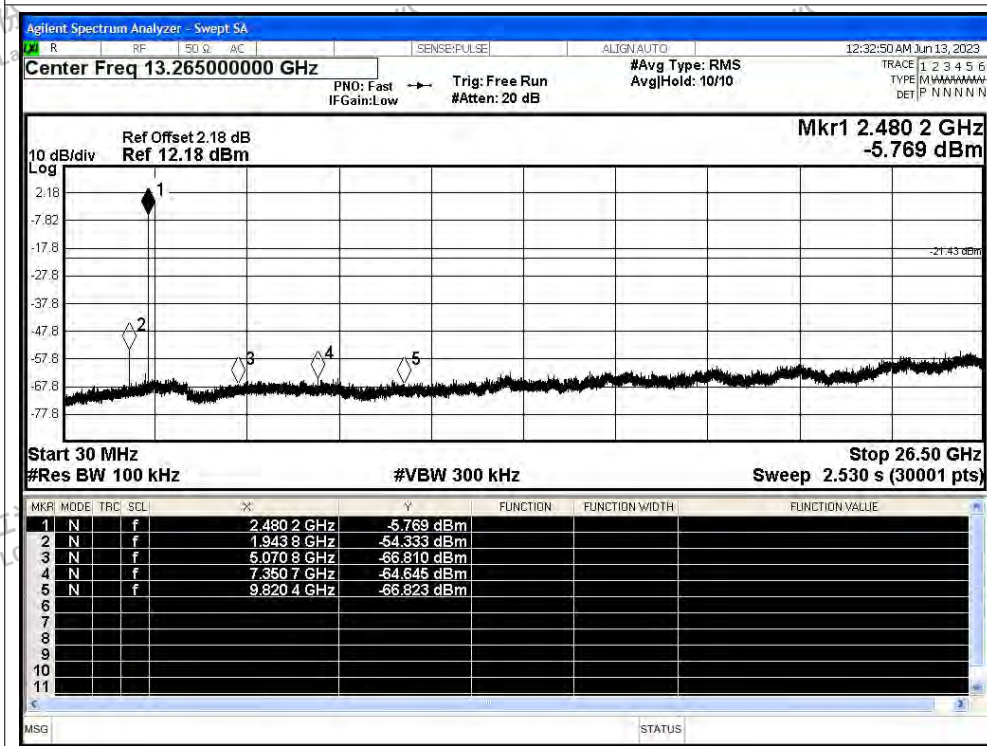
Scan code to check authenticity



Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

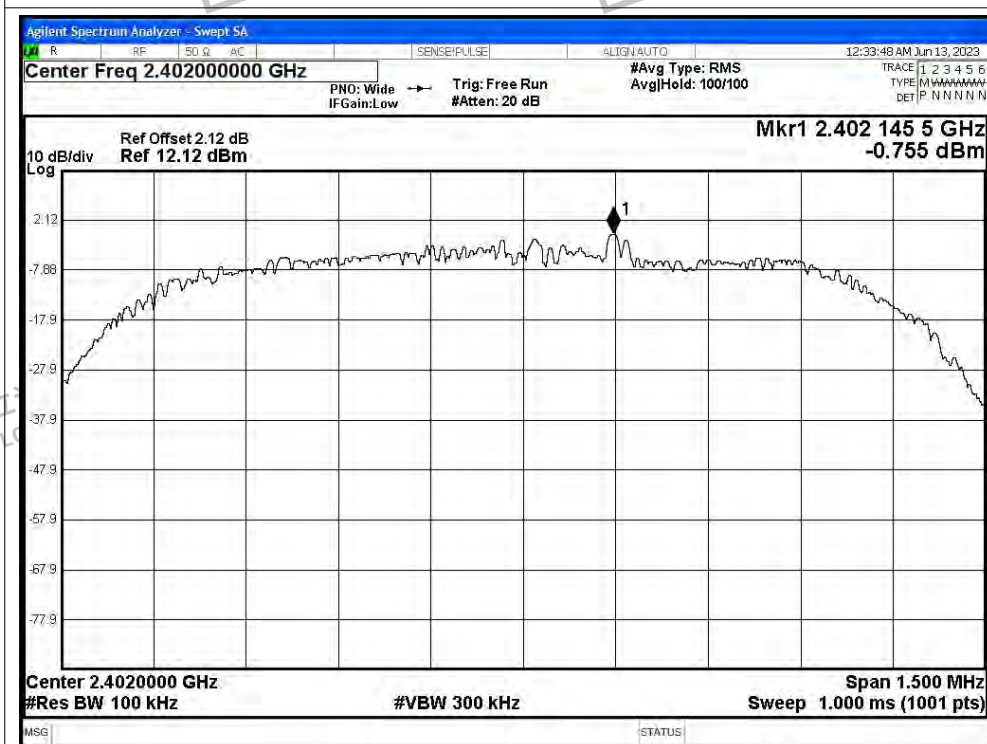
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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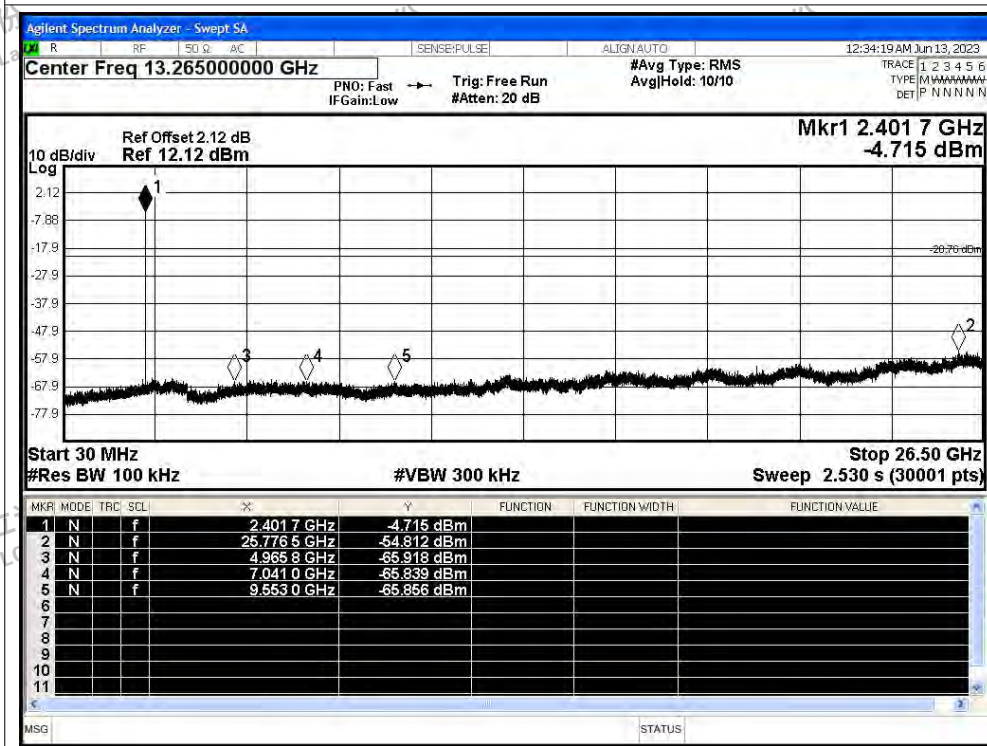
Scan code to check authenticity



Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

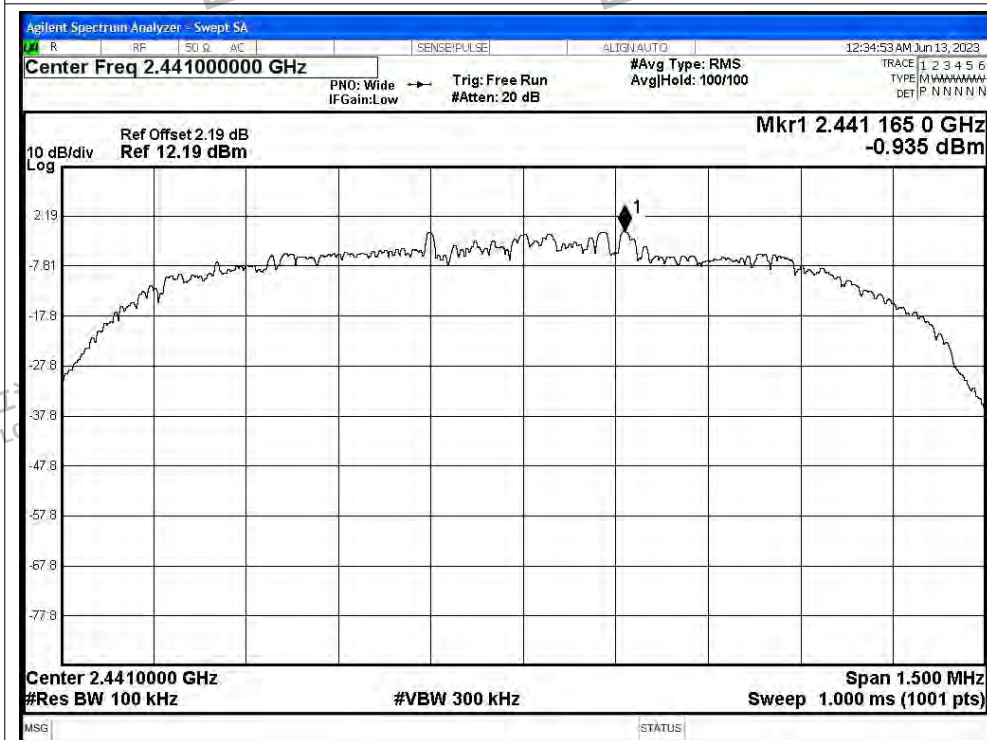
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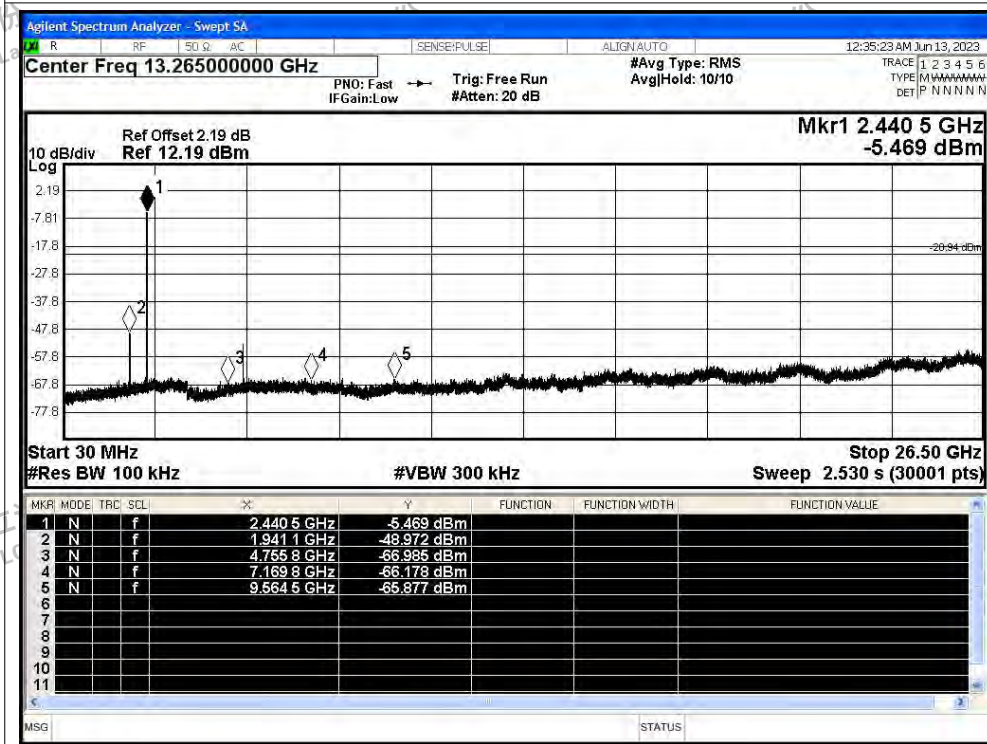
Scan code to check authenticity



Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Emission



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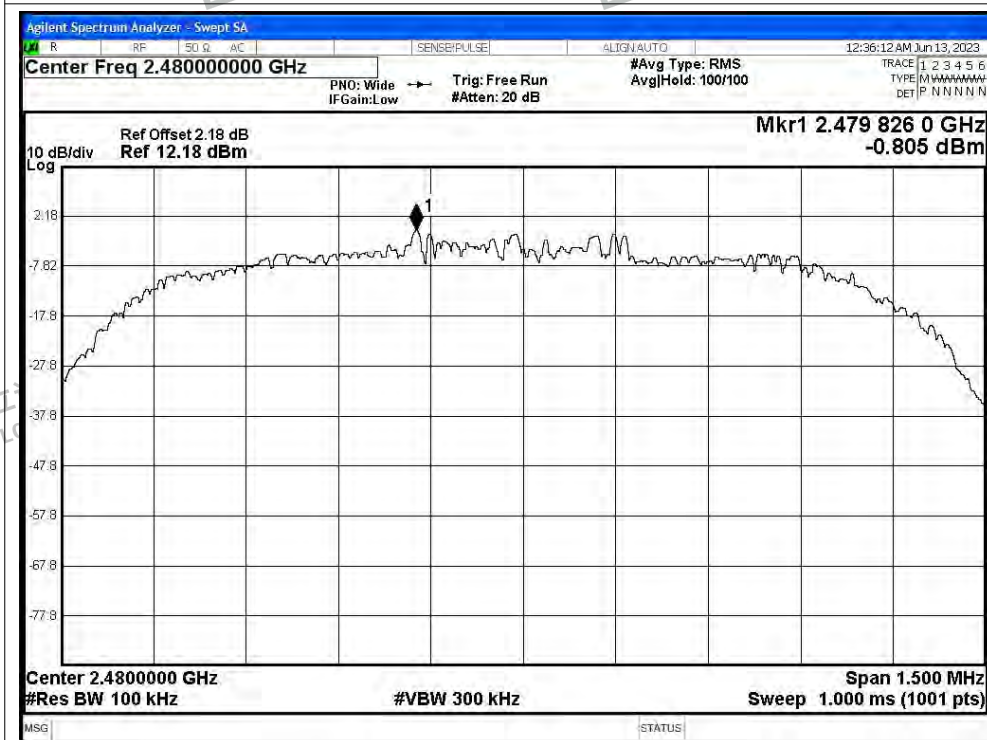
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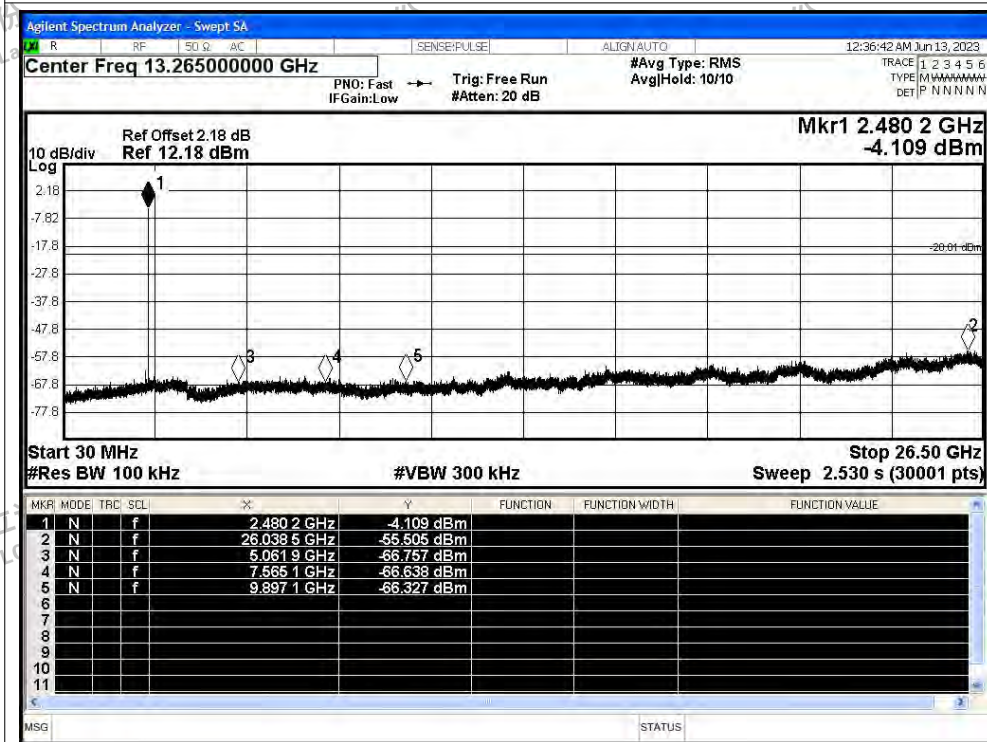
Scan code to check authenticity



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Emission



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A.8 Restrict Band

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-52.59	2	44.67	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-57.89	2	39.37	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2339.952	-47.25	2	50.01	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2378.64	-57.48	2	39.78	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-50.88	2	46.38	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-57.55	2	39.71	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-49.2	2	48.06	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-55.86	2	41.4	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2493.352	-46.76	2	50.5	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.512	-55.86	2	41.4	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-47.56	2	49.7	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-57.25	2	40.01	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-50.8	2	46.46	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-57.87	2	39.39	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2314.608	-47.68	2	49.58	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2388.816	-57.53	2	39.73	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-50.63	2	46.63	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-57.72	2	39.54	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-50.41	2	46.85	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-55.62	2	41.64	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.848	-47.09	2	50.17	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.512	-55.62	2	41.64	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-48.61	2	48.65	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-57.36	2	39.9	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-51.37	2	45.89	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-58.02	2	39.24	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2374.32	-47.5	2	49.76	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2388.24	-57.52	2	39.74	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-50	2	47.26	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-57.68	2	39.58	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-50.3	2	46.96	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-55.6	2	41.66	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2496.184	-46.59	2	50.67	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.512	-55.6	2	41.66	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-48.88	2	48.38	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-57.21	2	40.05	Average	54	Pass



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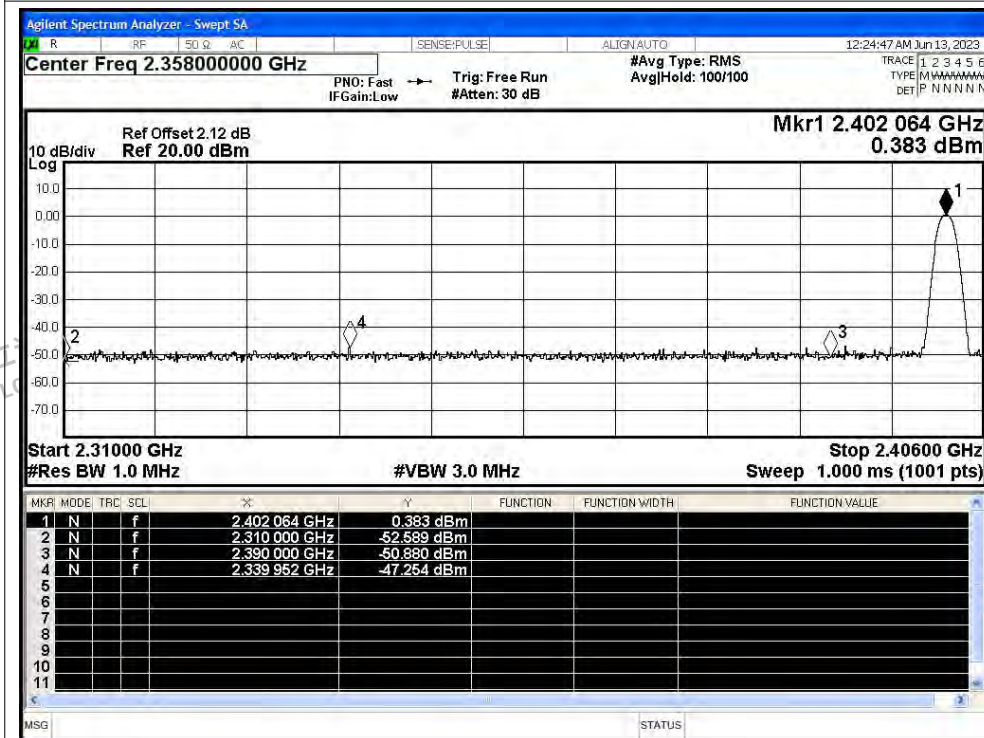
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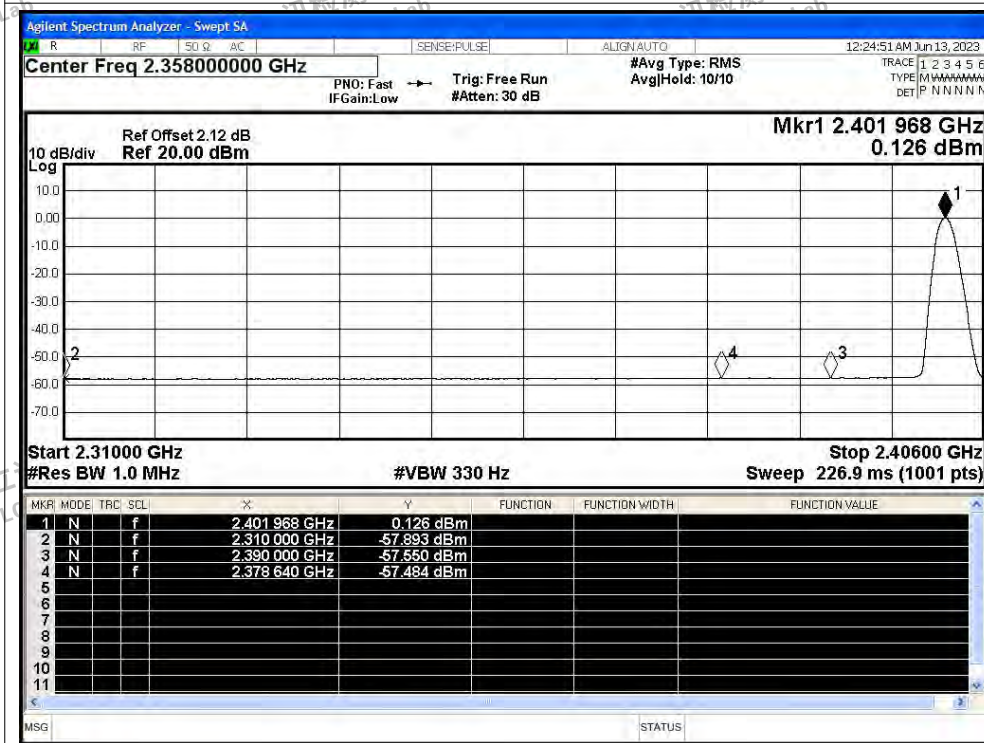


Test Graphs

Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Peak



Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Average



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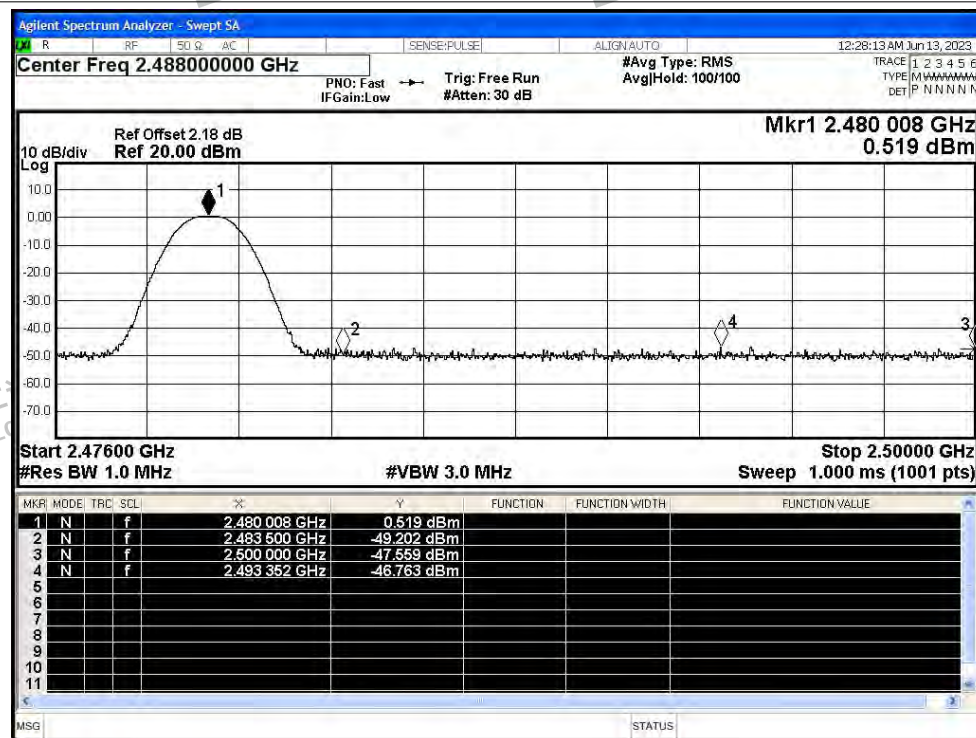
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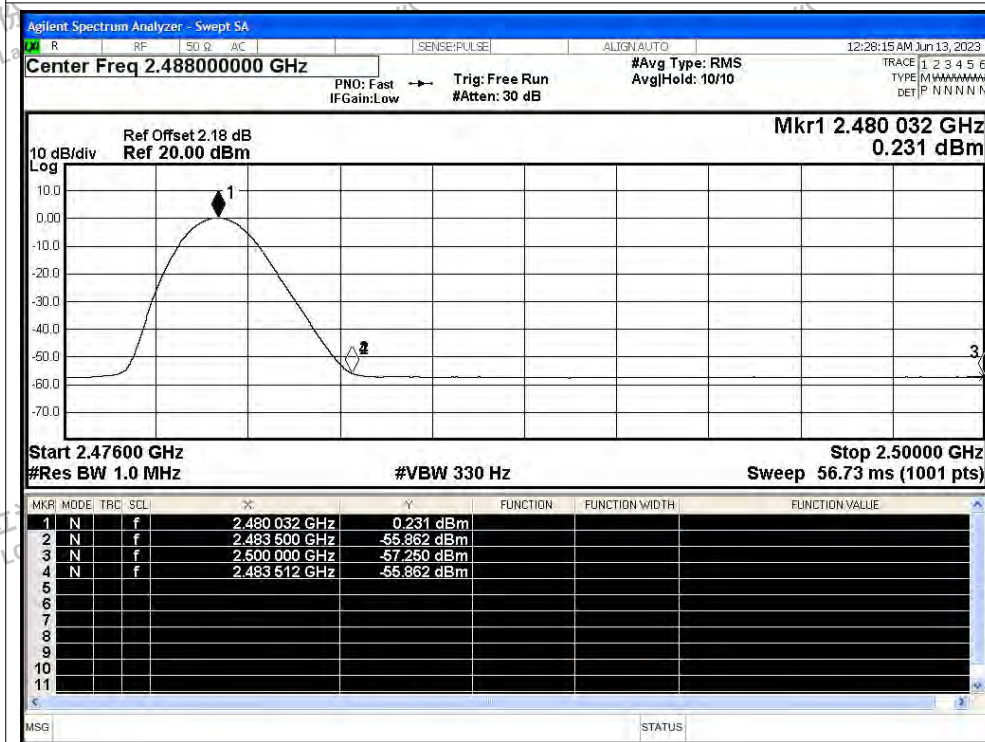
Scan code to check authenticity



Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Peak



Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

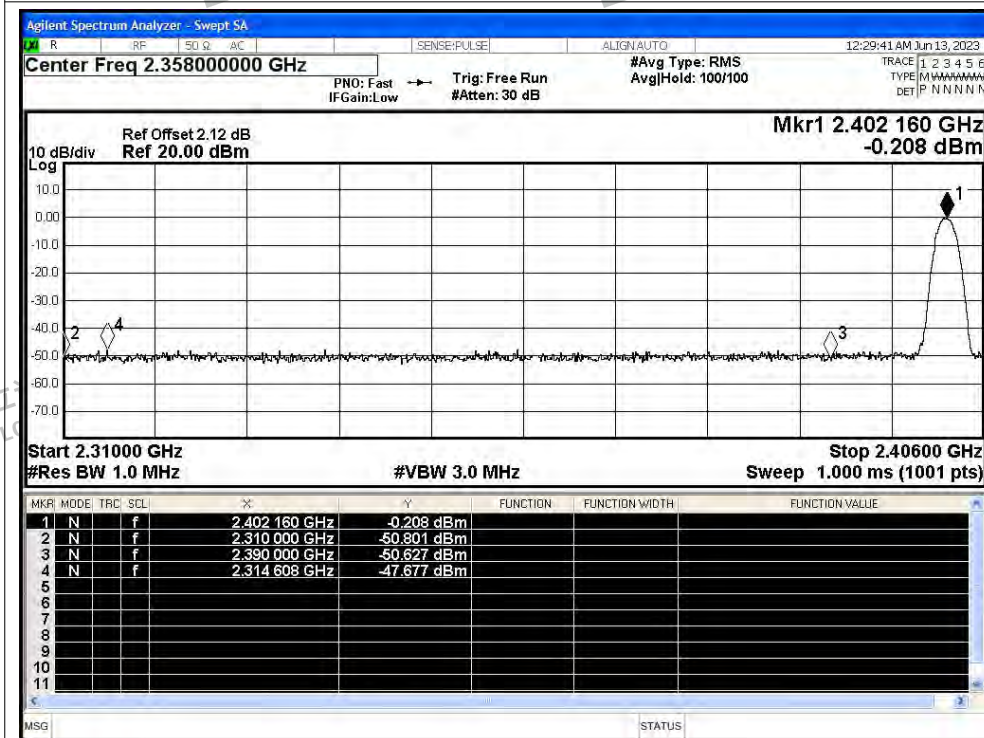
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

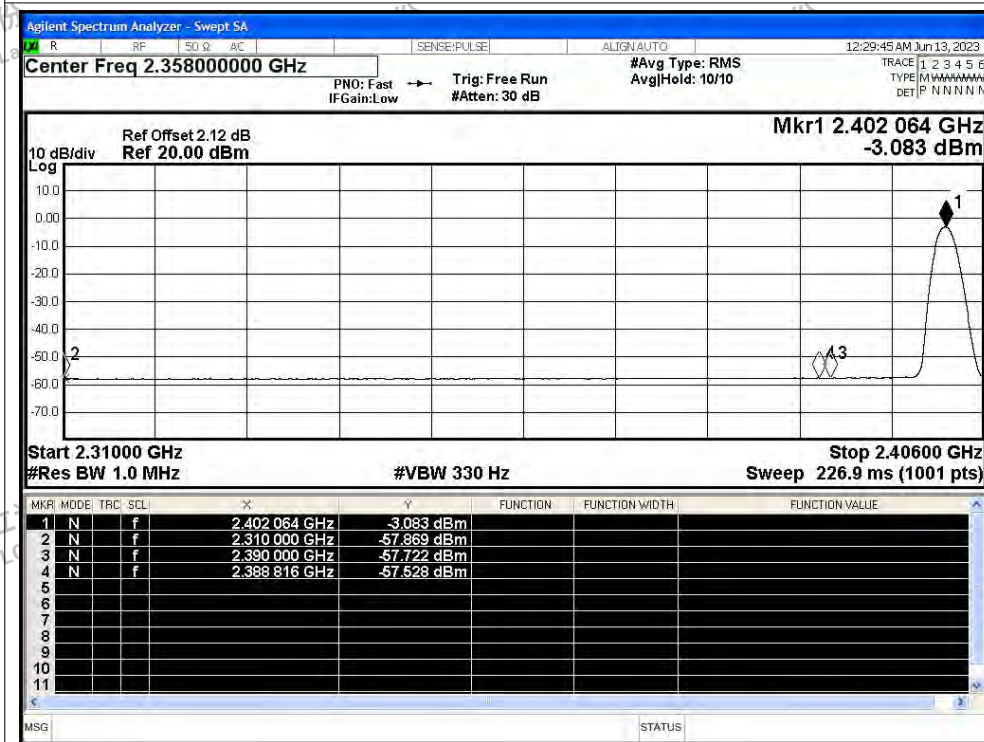
Scan code to check authenticity



Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Peak



Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

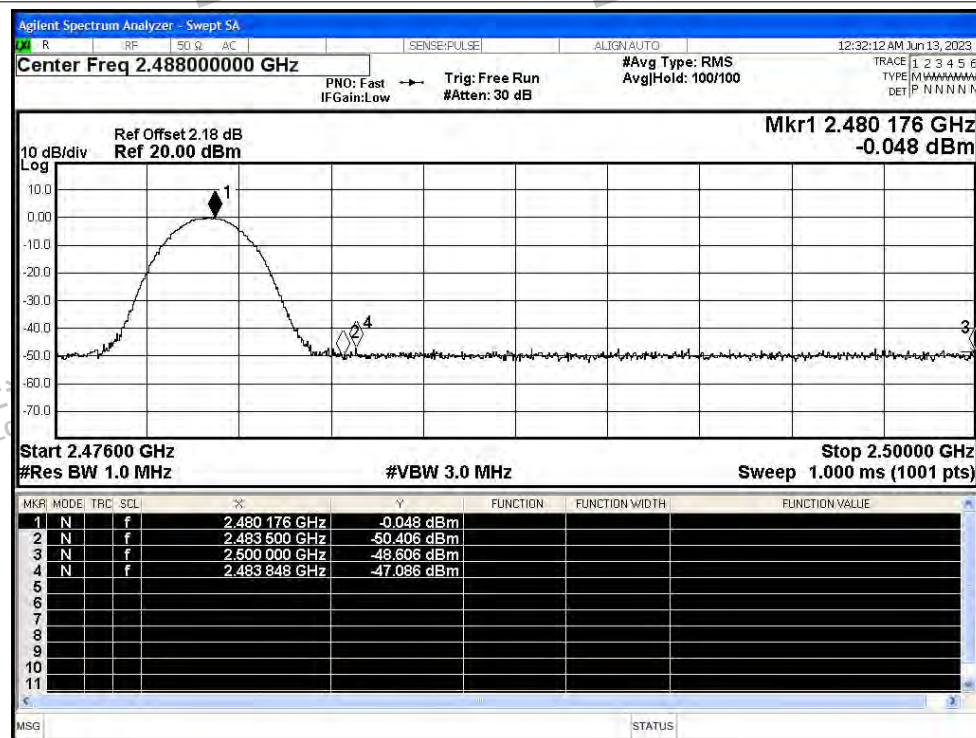
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

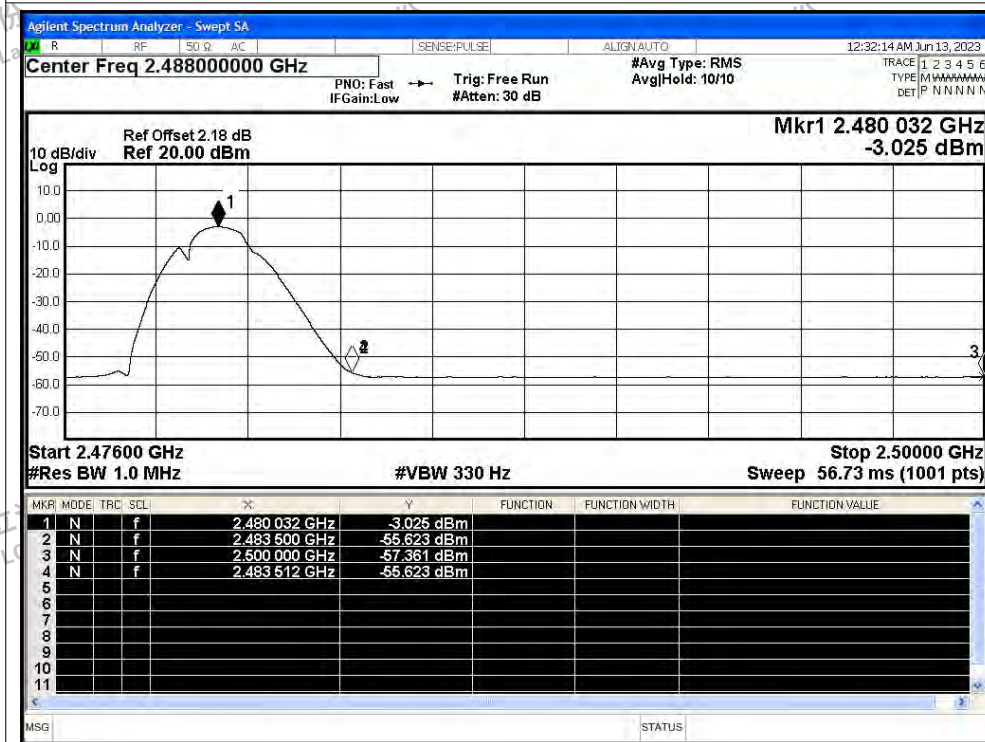
Scan code to check authenticity



Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Peak



Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

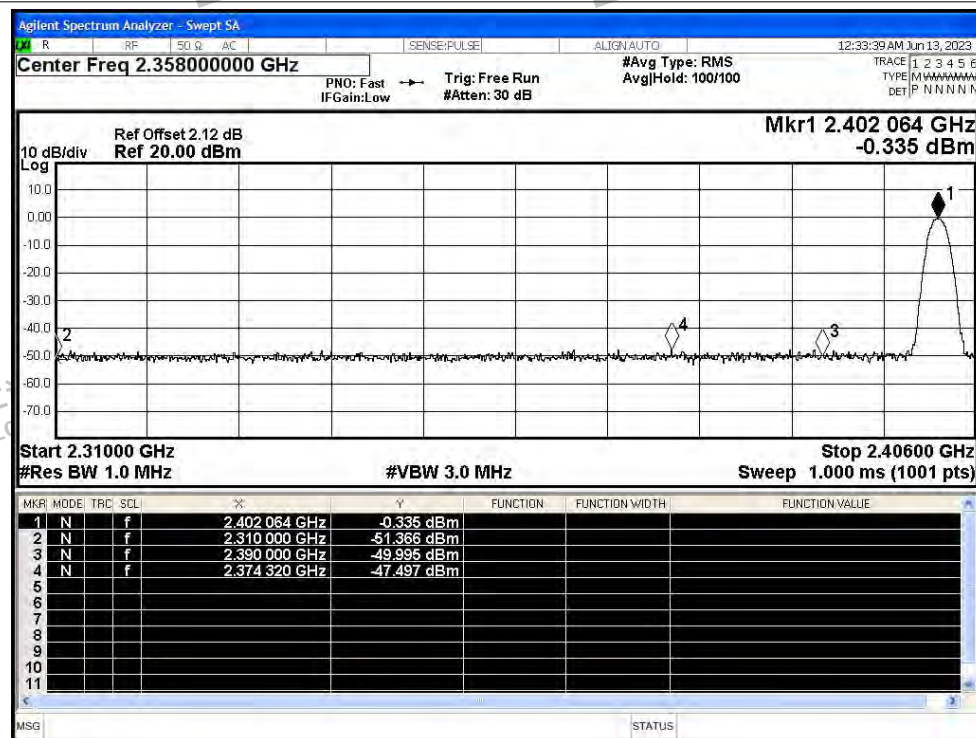
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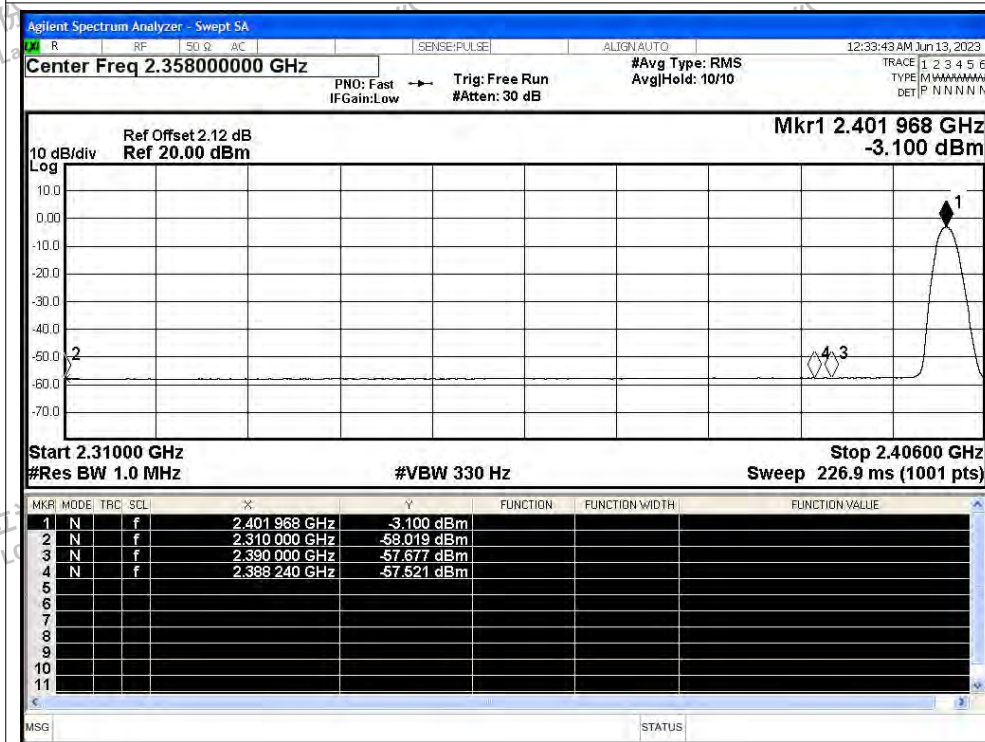
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Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Peak



Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

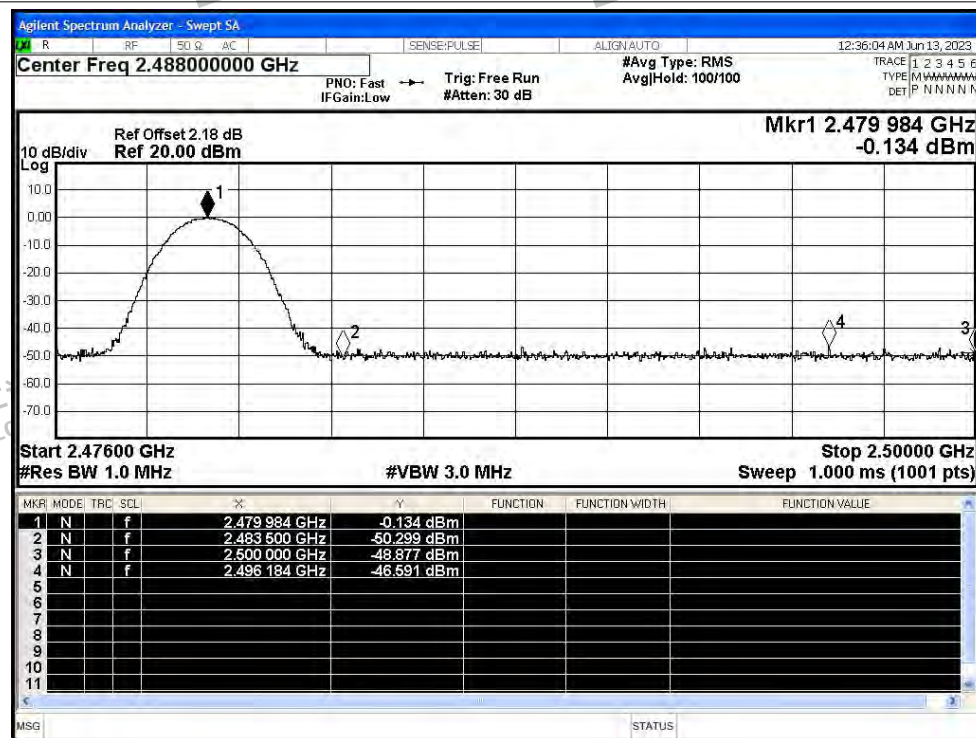
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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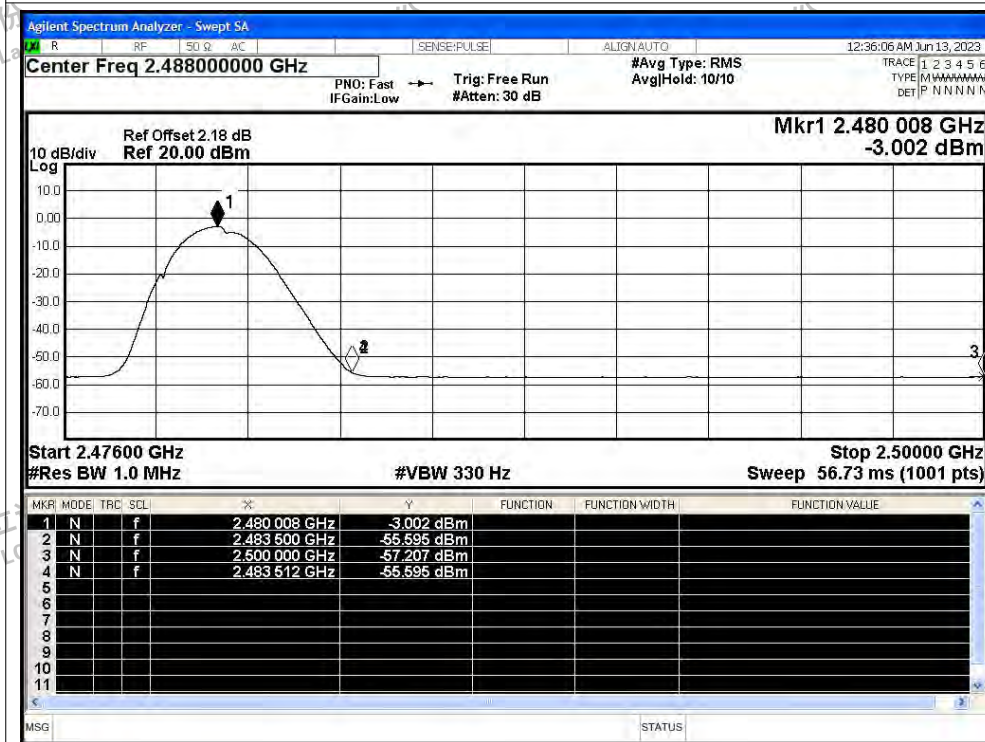
Scan code to check authenticity



Restrict Band NVNT 3-DH5 2480MHz Ant1 No-Hopping Peak



Restrict Band NVNT 3-DH5 2480MHz Ant1 No-Hopping Average



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