


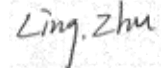
Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Smart Watch

Test Model: boAt Ultima Connect

Environmental Conditions

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





A.1 -20dB Bandwidth

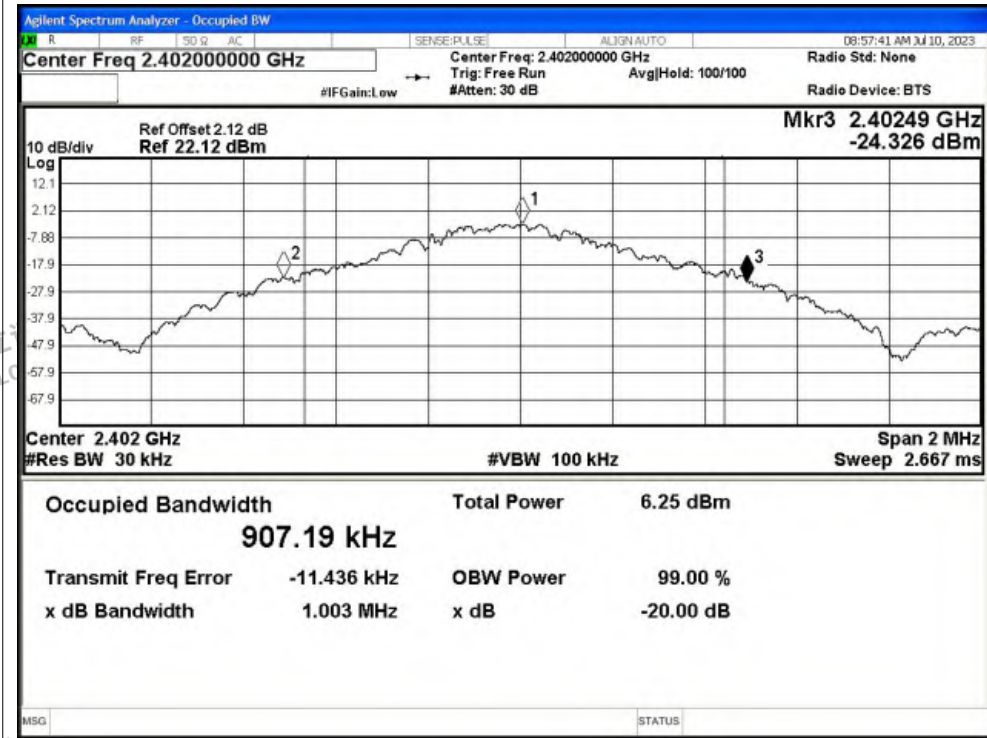
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	1.003	N/A	Pass
NVNT	1-DH5	2441	Ant1	1.02	N/A	Pass
NVNT	1-DH5	2480	Ant1	1.021	N/A	Pass
NVNT	2-DH5	2402	Ant1	1.28	N/A	Pass
NVNT	2-DH5	2441	Ant1	1.288	N/A	Pass
NVNT	2-DH5	2480	Ant1	1.288	N/A	Pass



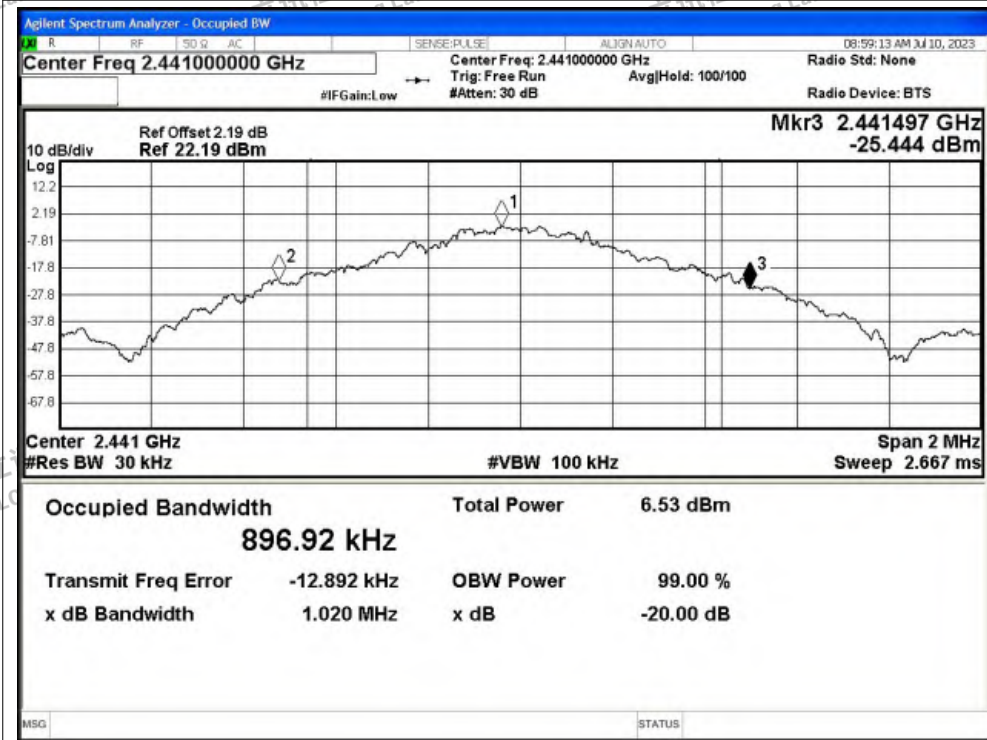


Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1



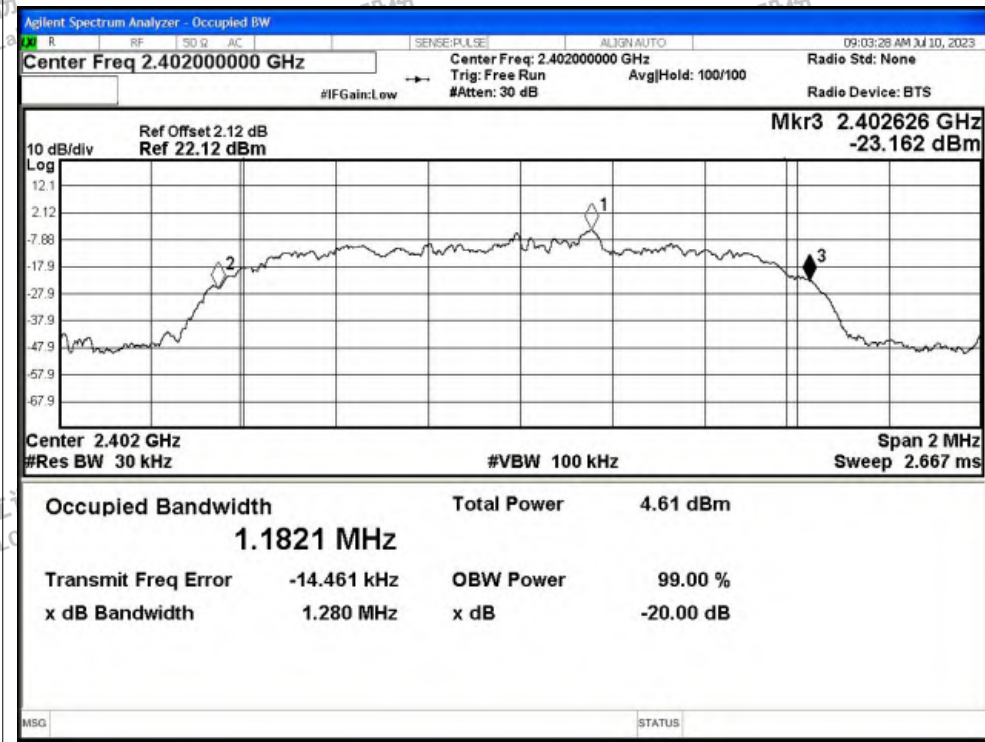
-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1



-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1

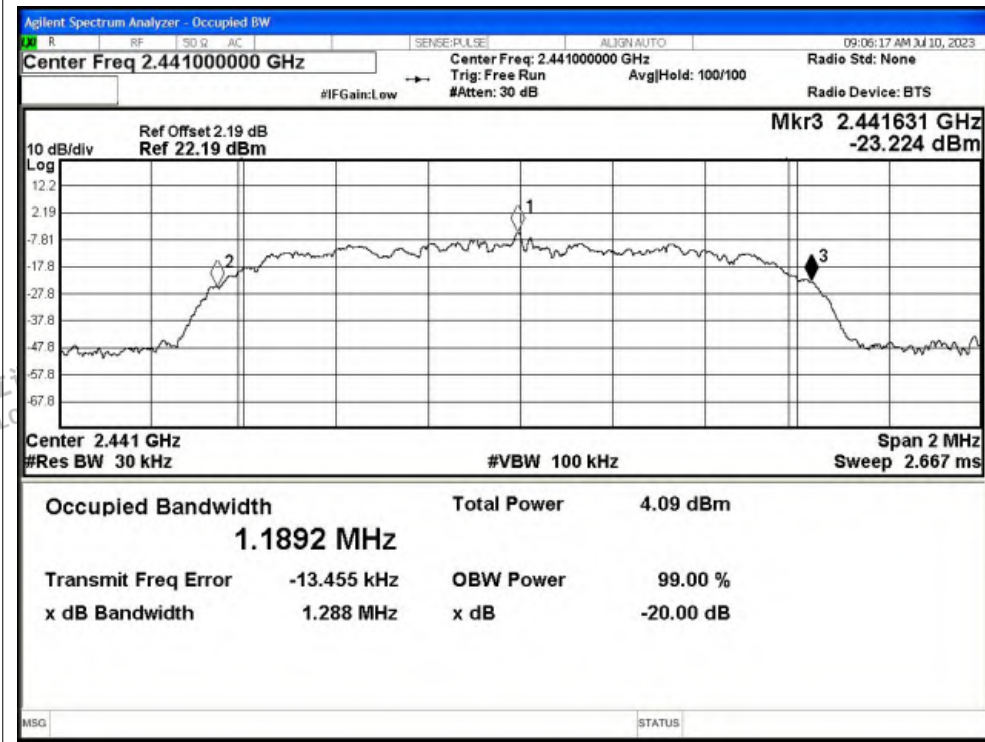


-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1

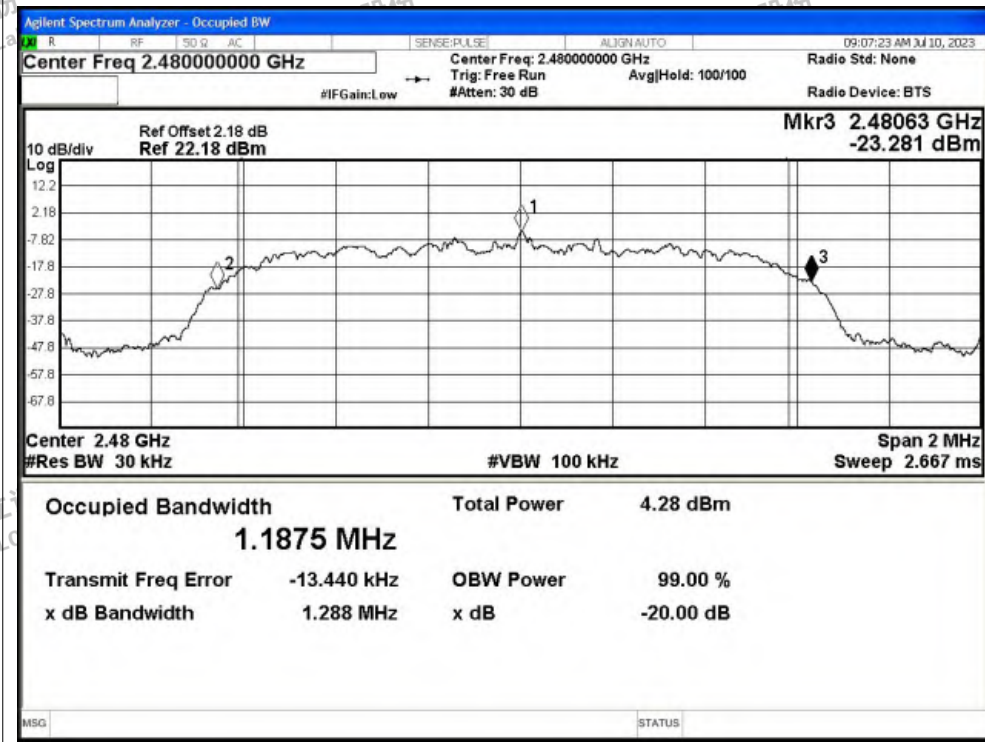


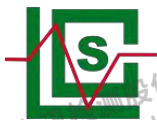


-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1



-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1





A.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	0.2	21	Pass
NVNT	1-DH5	2441	Ant1	0.41	21	Pass
NVNT	1-DH5	2480	Ant1	0.37	21	Pass
NVNT	2-DH5	2402	Ant1	0.01	21	Pass
NVNT	2-DH5	2441	Ant1	0.06	21	Pass
NVNT	2-DH5	2480	Ant1	0.12	21	Pass



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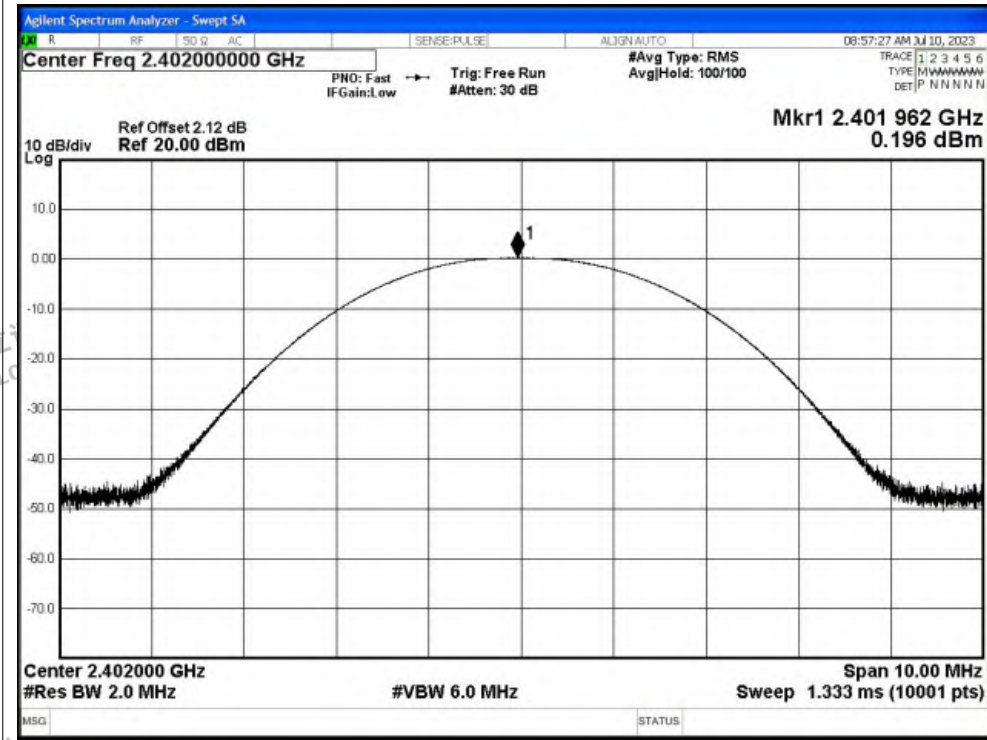
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity

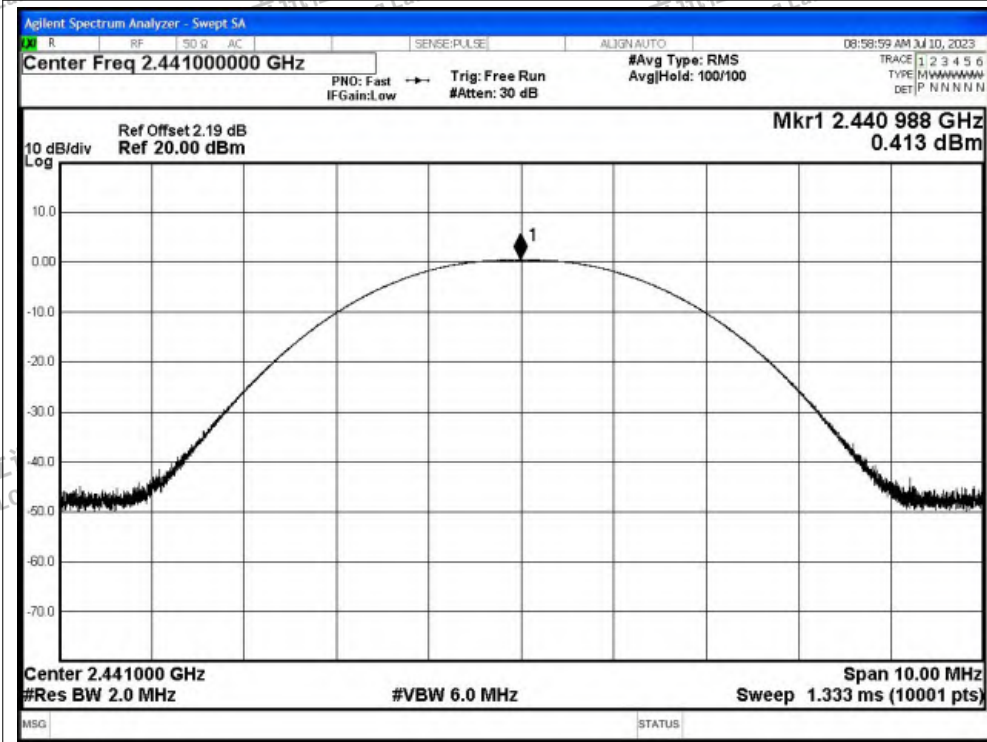


Test Graphs

Power NVNT 1-DH5 2402MHz Ant1

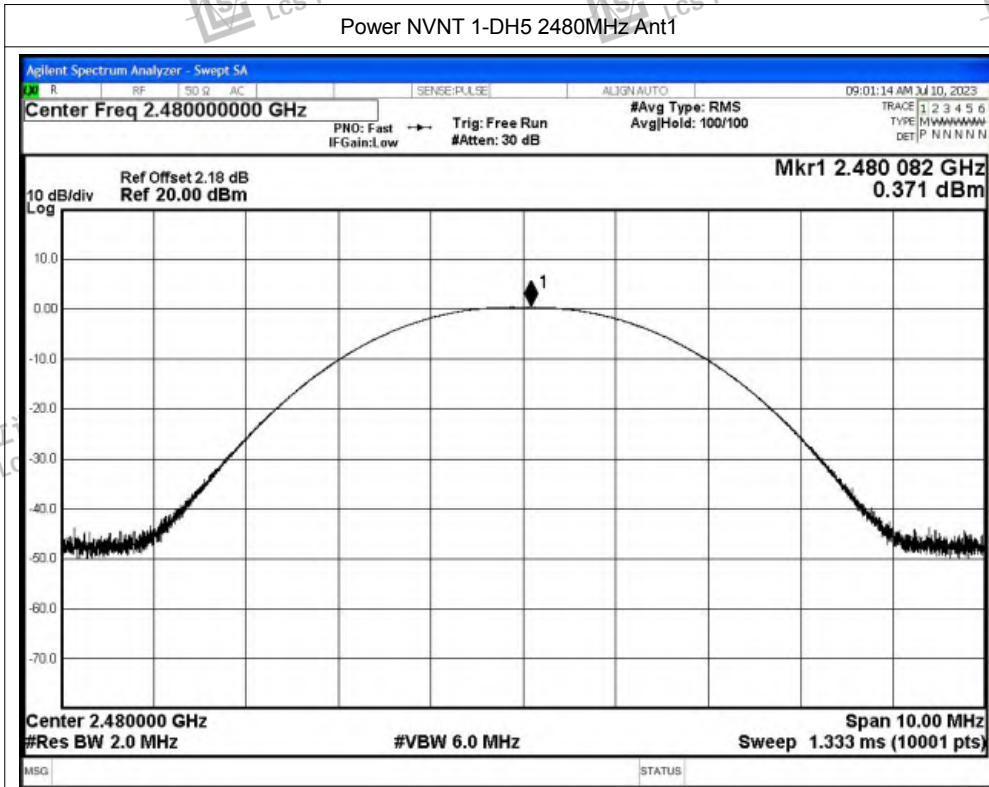


Power NVNT 1-DH5 2441MHz Ant1

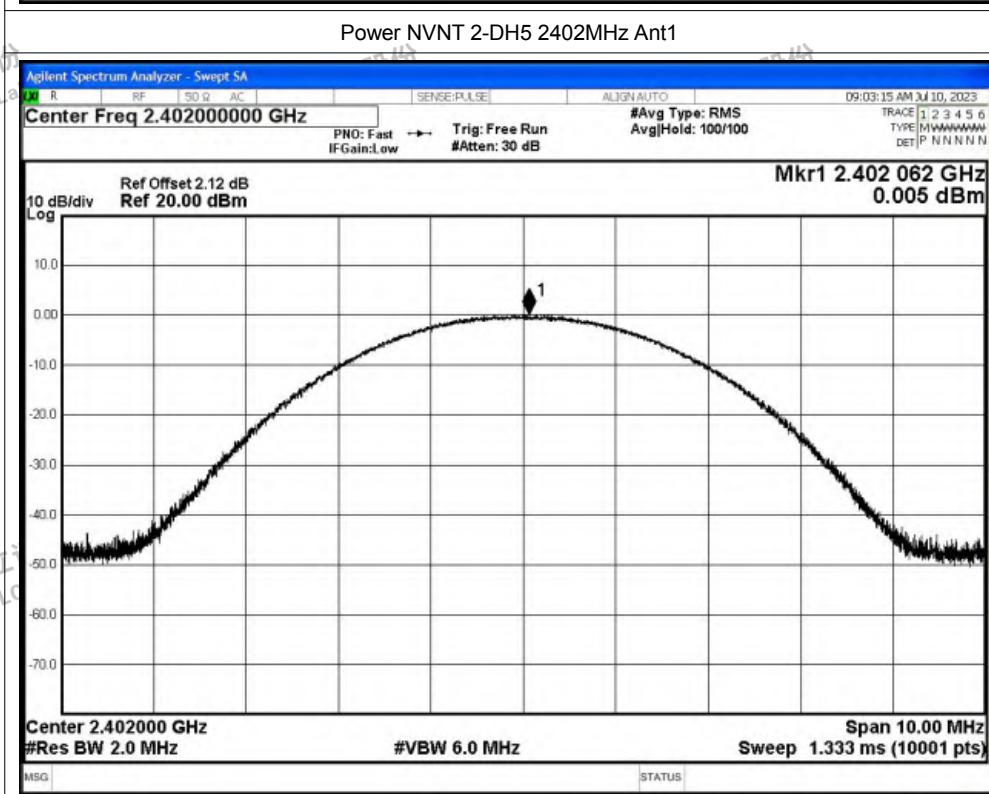




Power NVNT 1-DH5 2480MHz Ant1



Power NVNT 2-DH5 2402MHz Ant1



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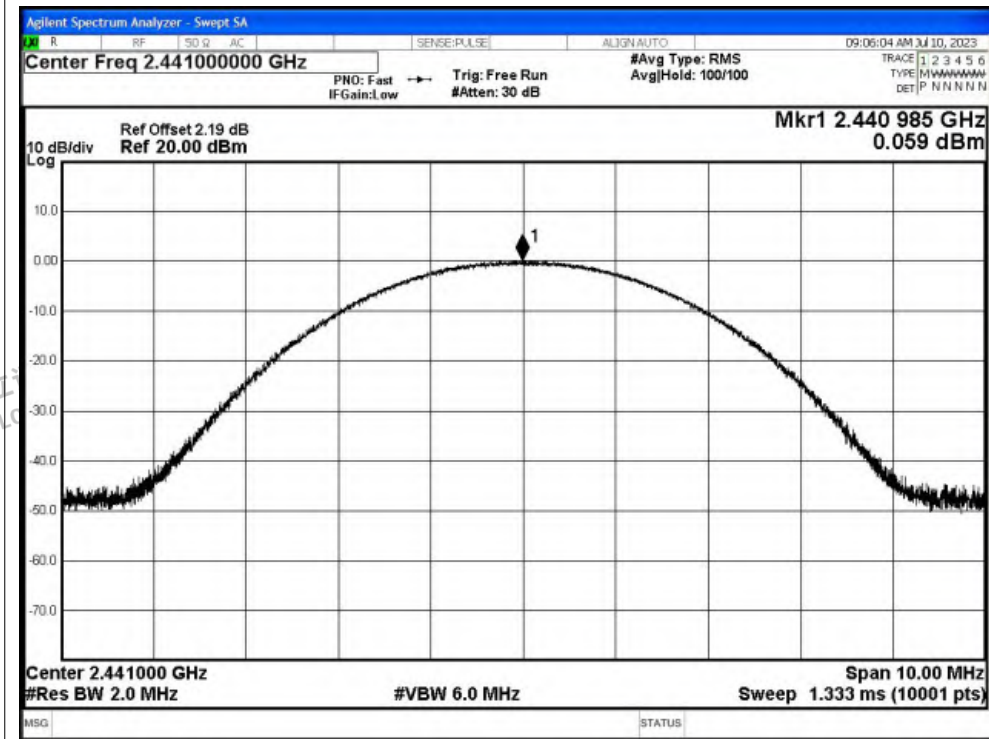
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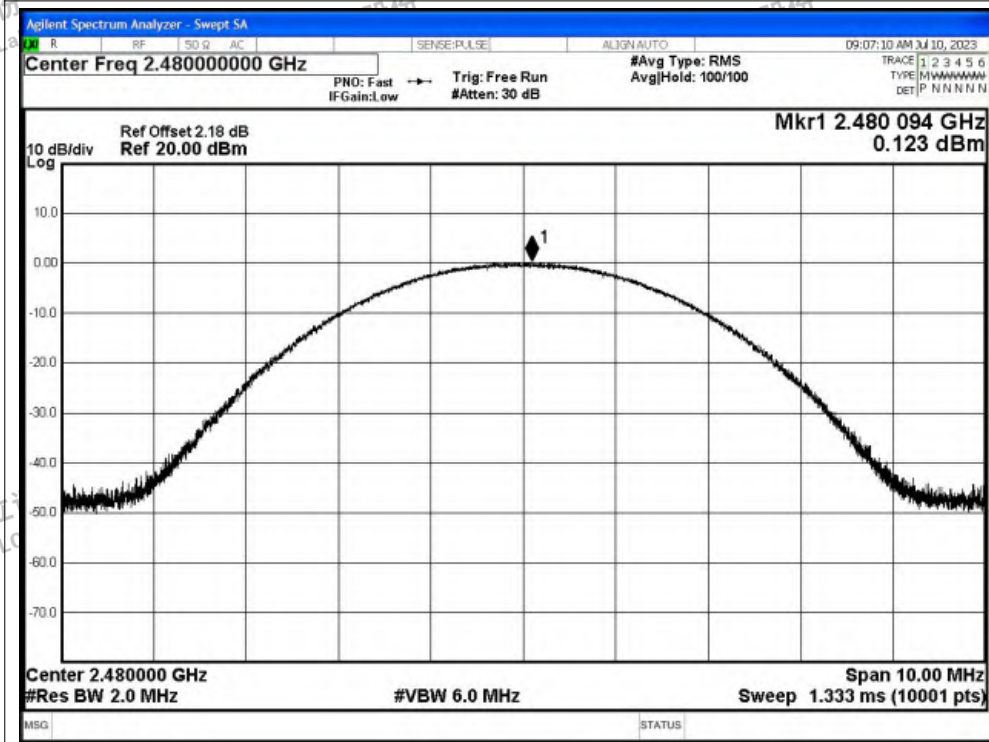
Scan code to check authenticity



Power NVNT 2-DH5 2441MHz Ant1



Power NVNT 2-DH5 2480MHz Ant1

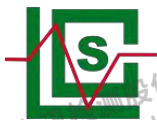


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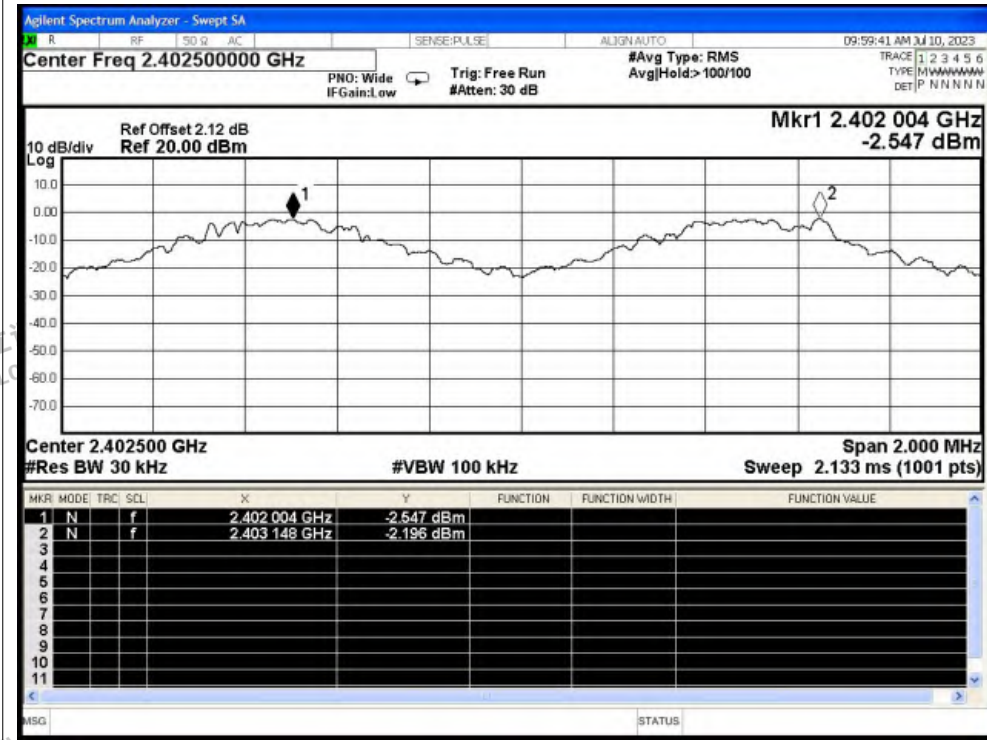
A.3 Carrier Frequencies Separation

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2402.004	2403.148	1.144	0.681	Pass
NVNT	2-DH5	Ant1	2402.15	2403.15	1	0.859	Pass

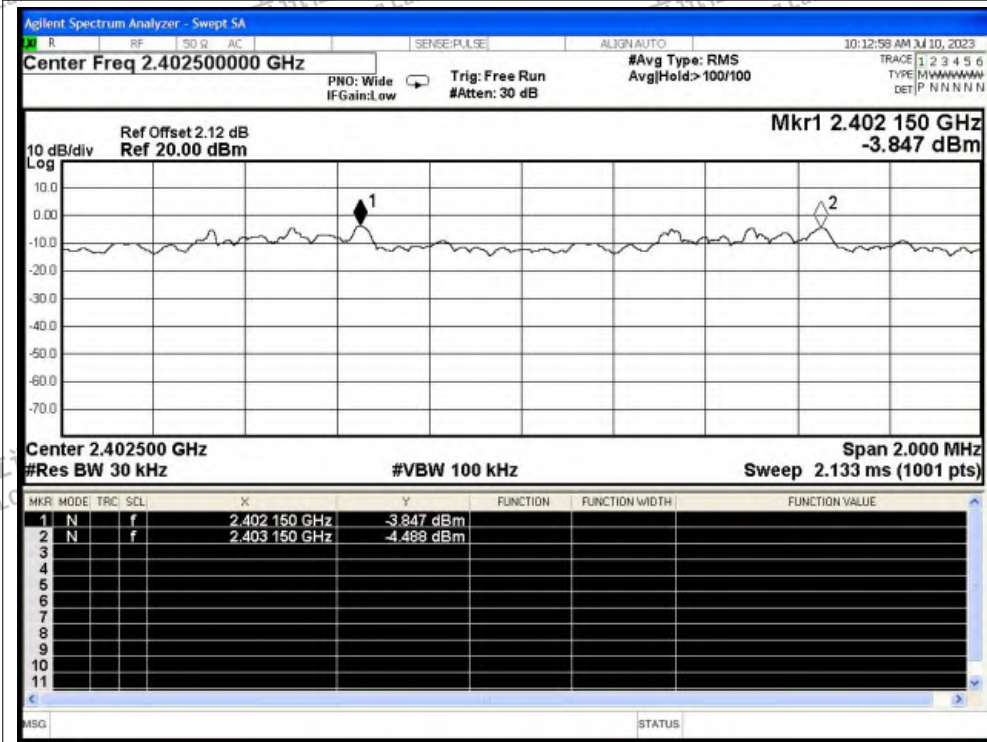


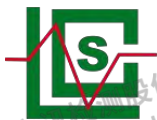
Test Graphs

CFS NVNT 1-DH5 2402MHz Ant1



CFS NVNT 2-DH5 2402MHz Ant1





A.4 Dwell Time

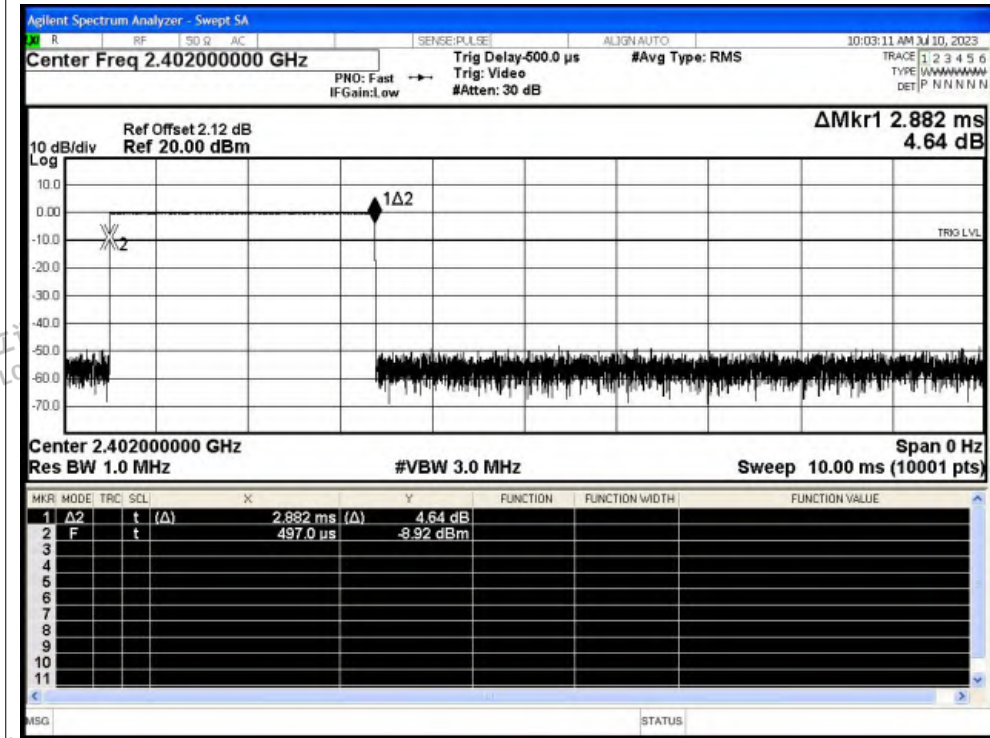
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH5	2402	Ant1	2.882	291.082	101	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.88	328.32	114	31600	400	Pass



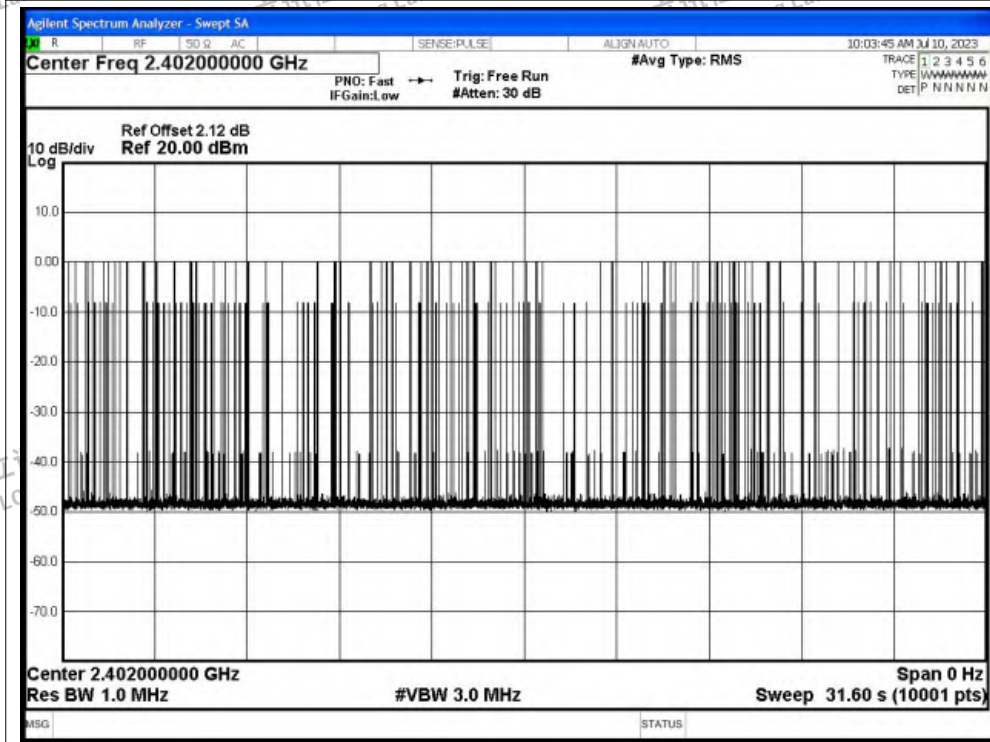


Test Graphs

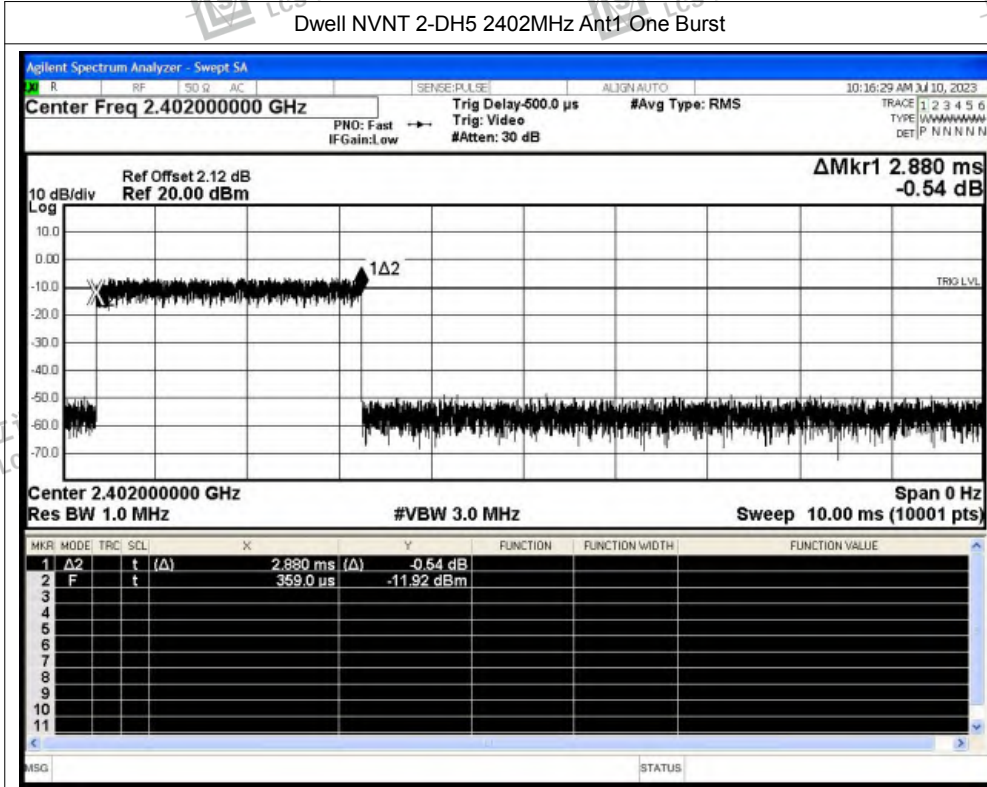
Dwell NVNT 1-DH5 2402MHz Ant1 One Burst



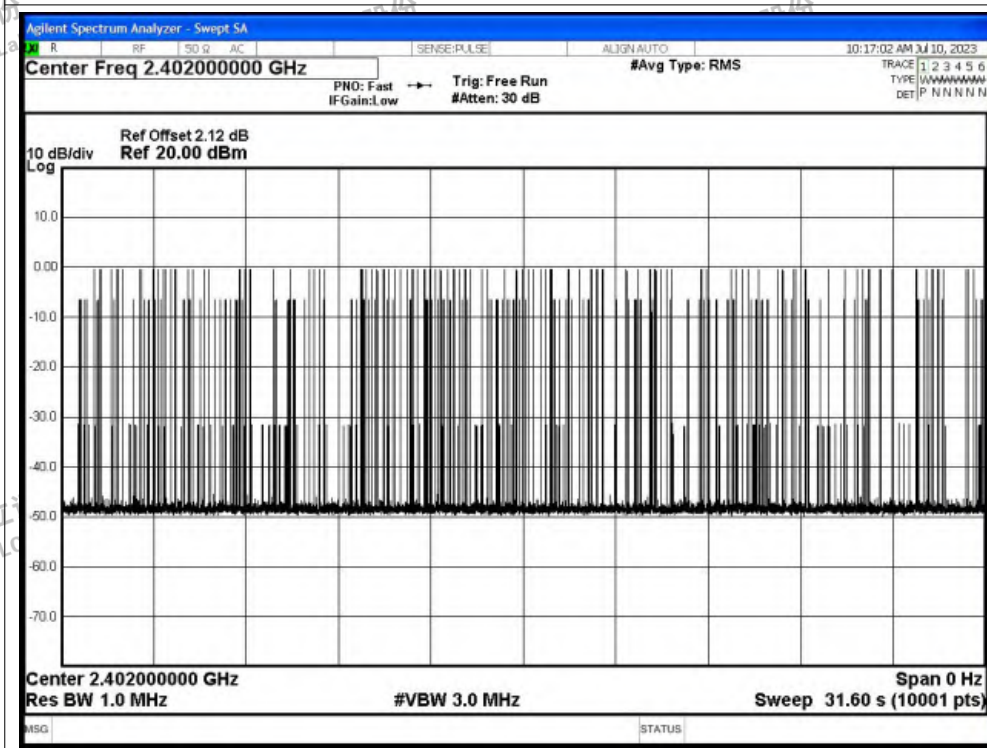
Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated

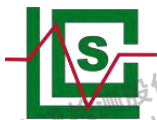


Dwell NVNT 2-DH5 2402MHz Ant1 One Burst



Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated





A.5 Number of Hopping Channel

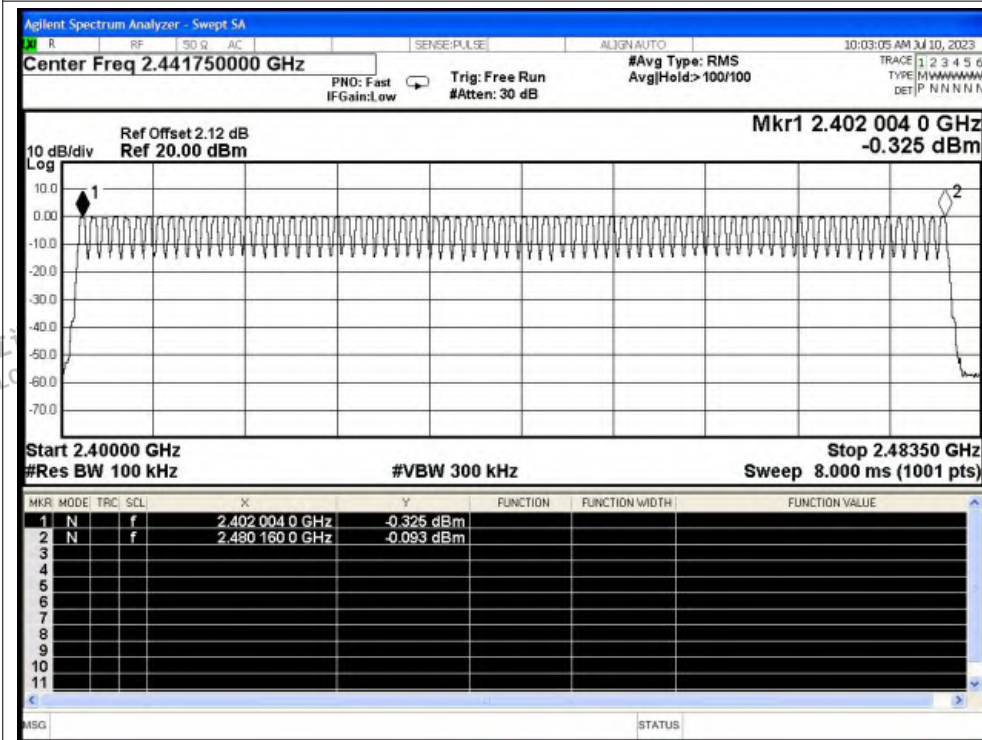
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH5	Ant1	79	15	Pass
NVNT	2-DH5	Ant1	79	15	Pass



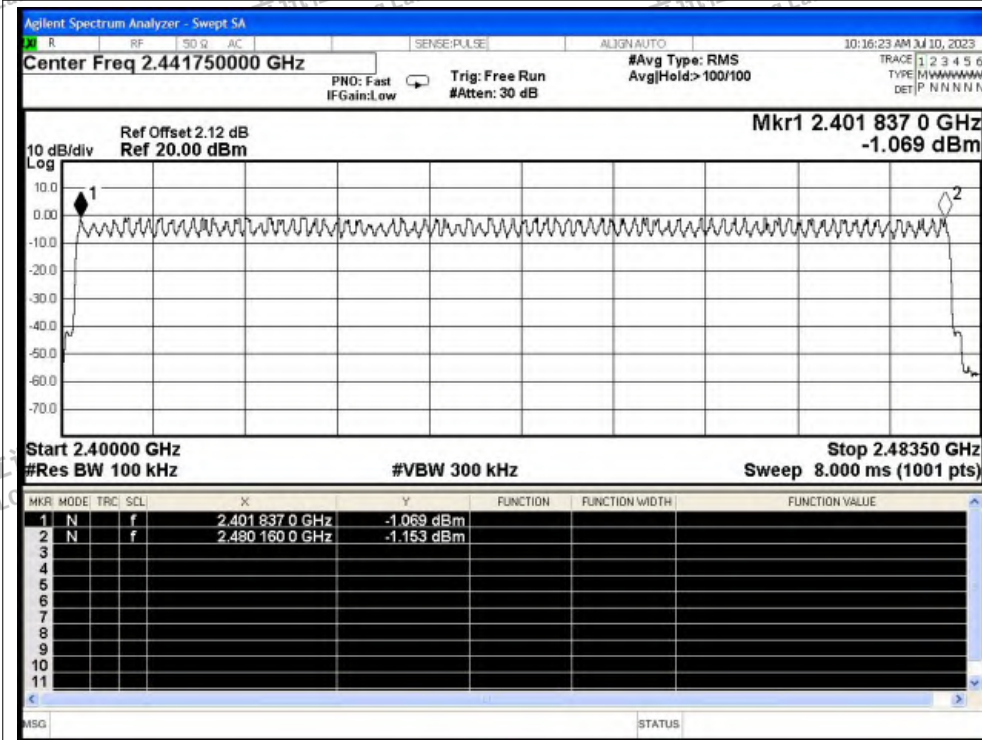


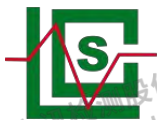
Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant1



Hopping No. NVNT 2-DH5 2402MHz Ant1





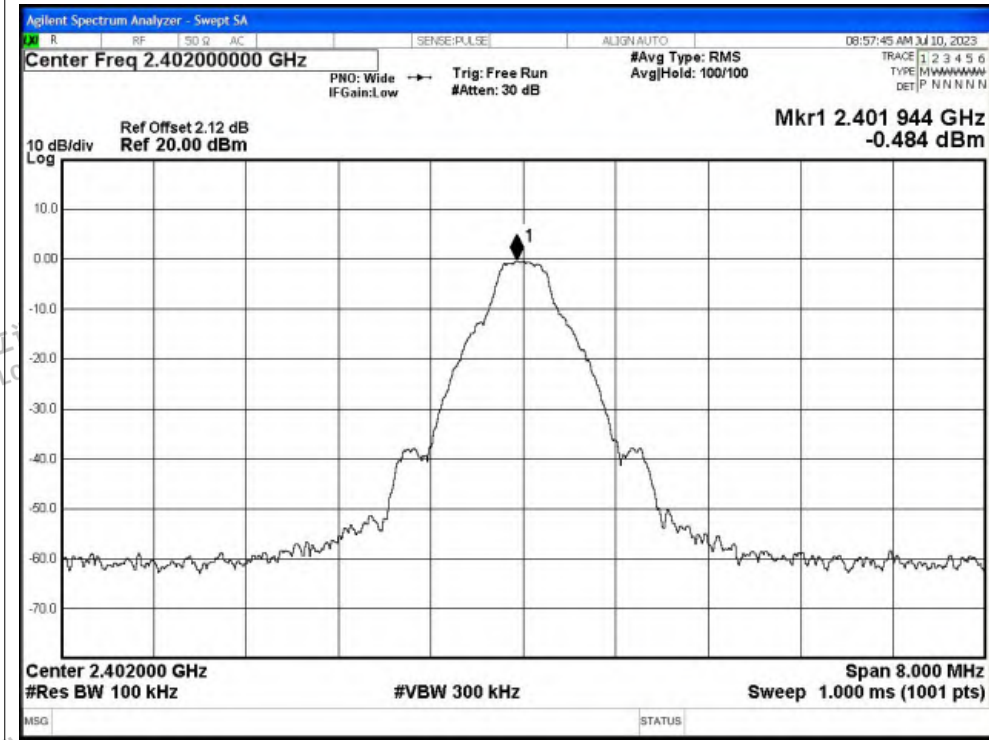
A.6 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-56.14	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-56.59	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-54.38	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-55.56	-20	Pass

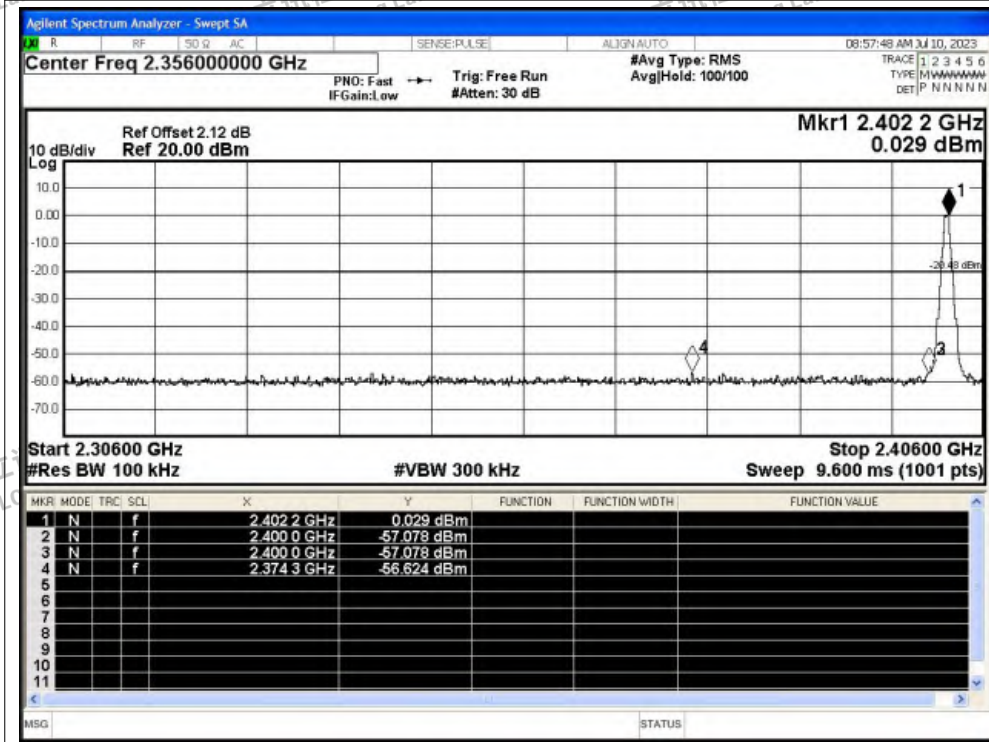


Test Graphs

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

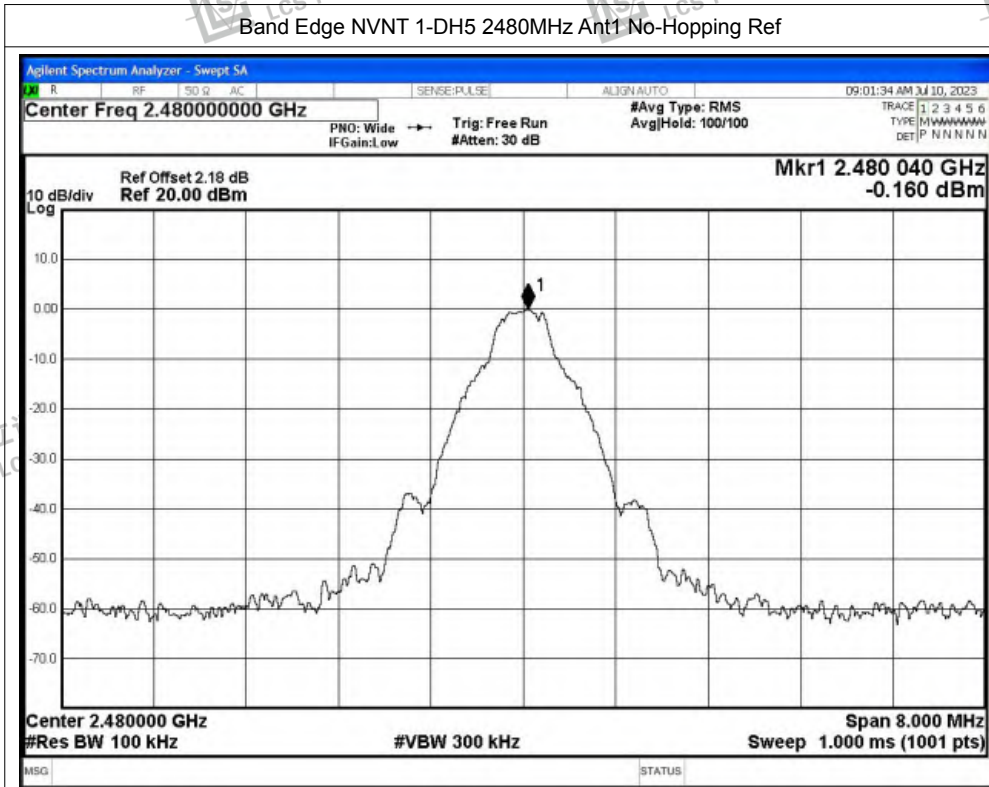


Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission

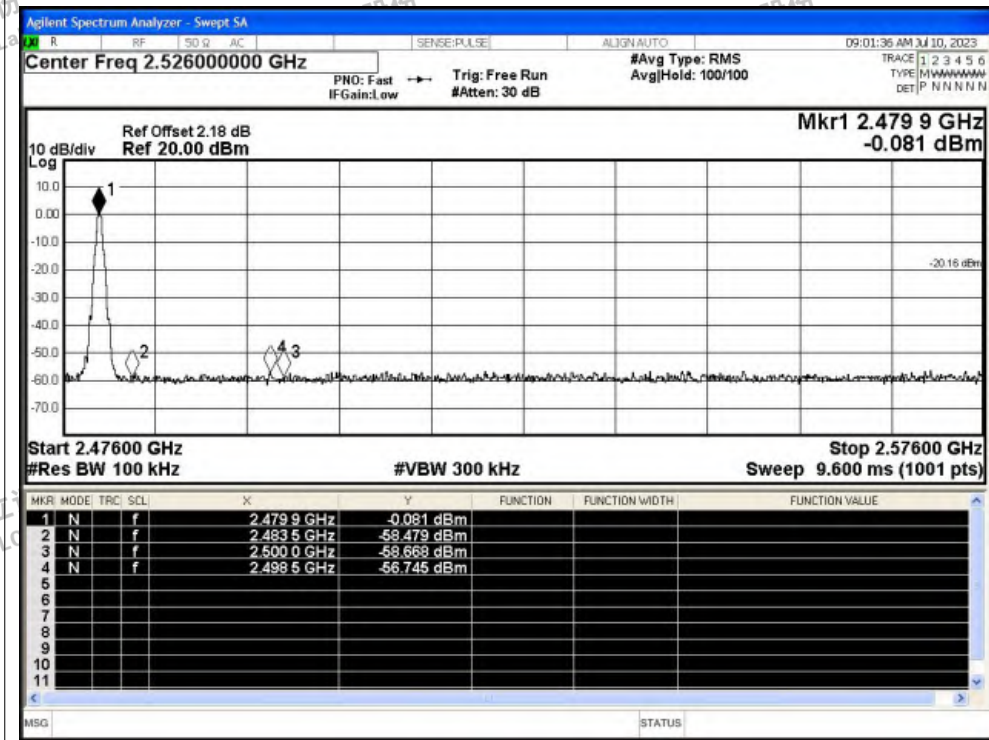




Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref



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



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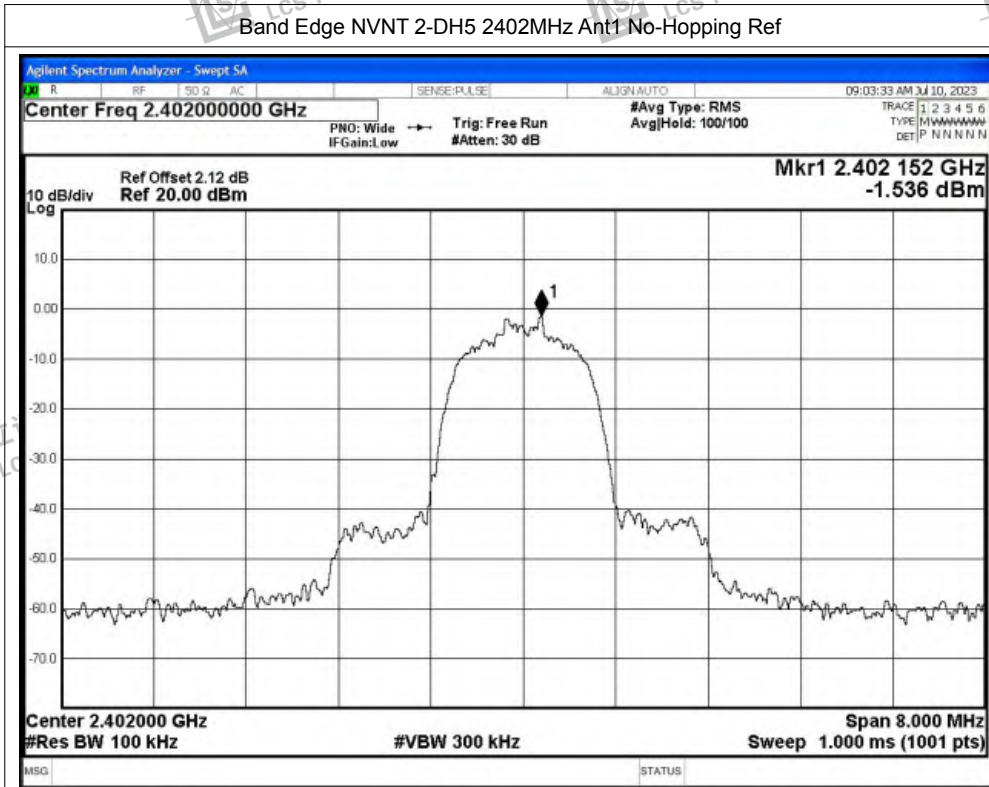
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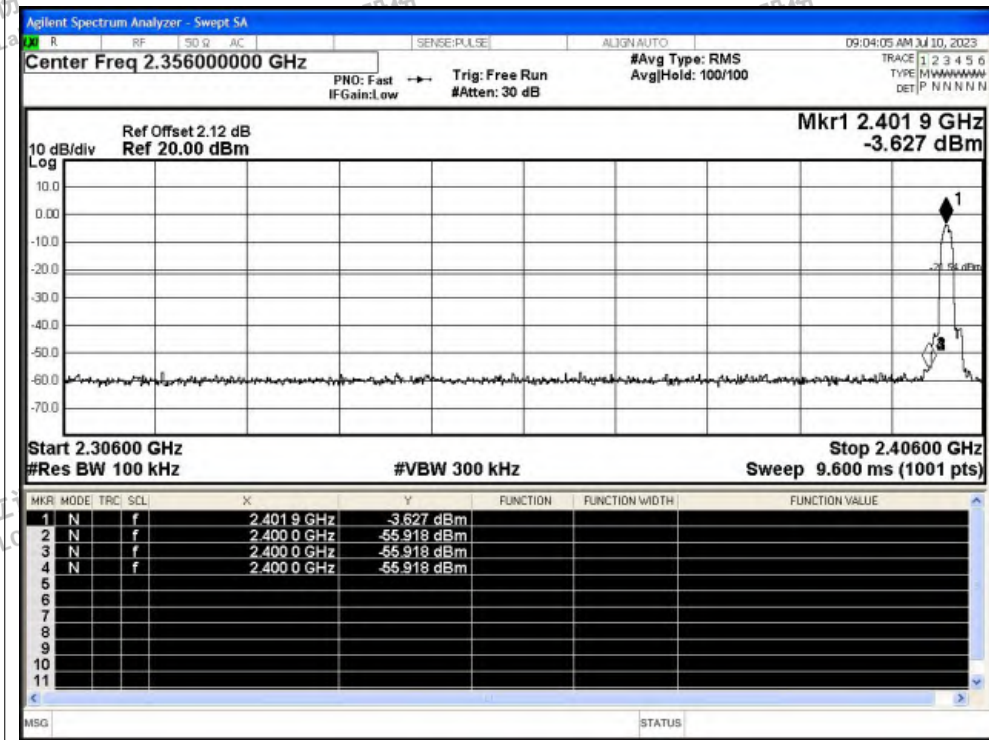
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Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref



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



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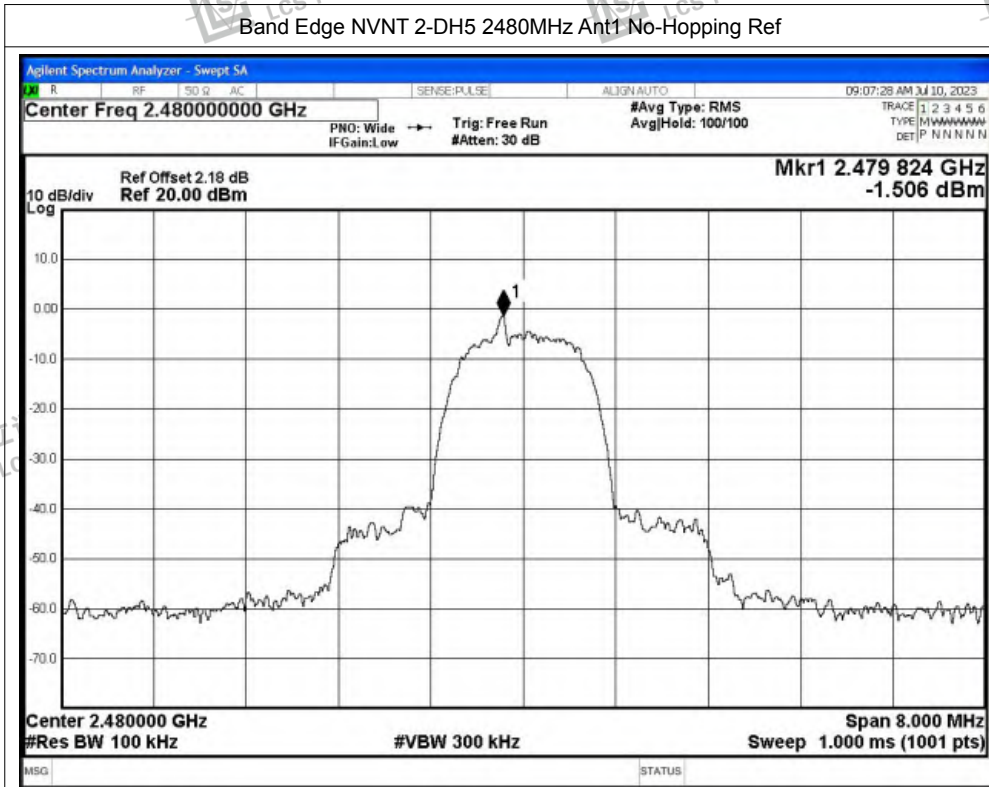
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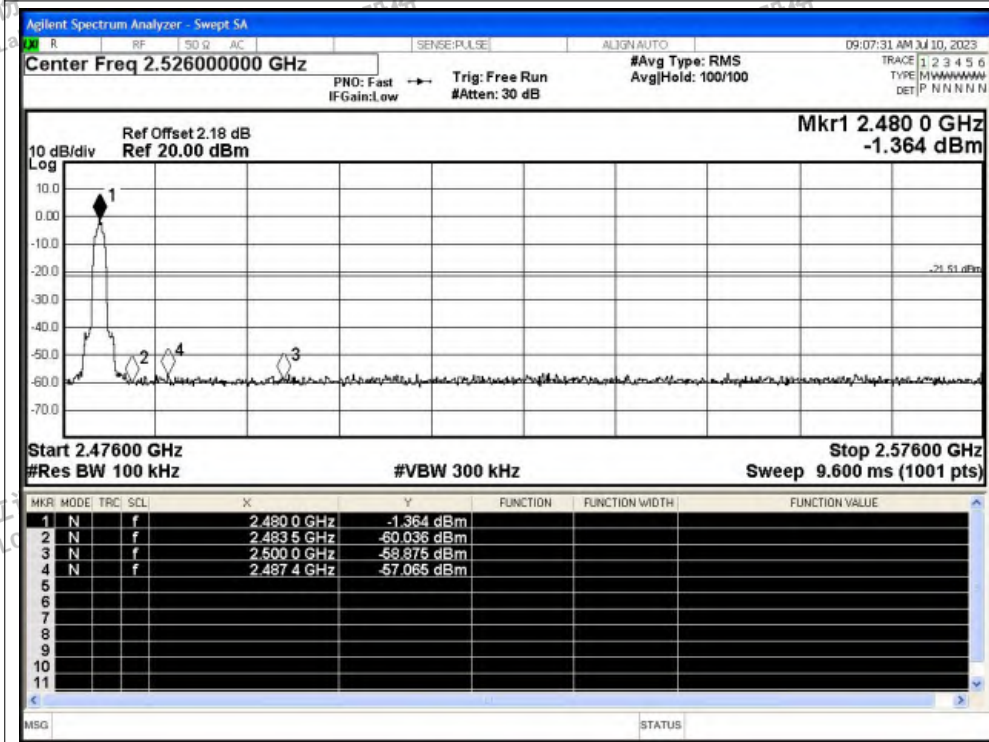
Scan code to check authenticity



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



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

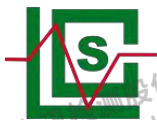


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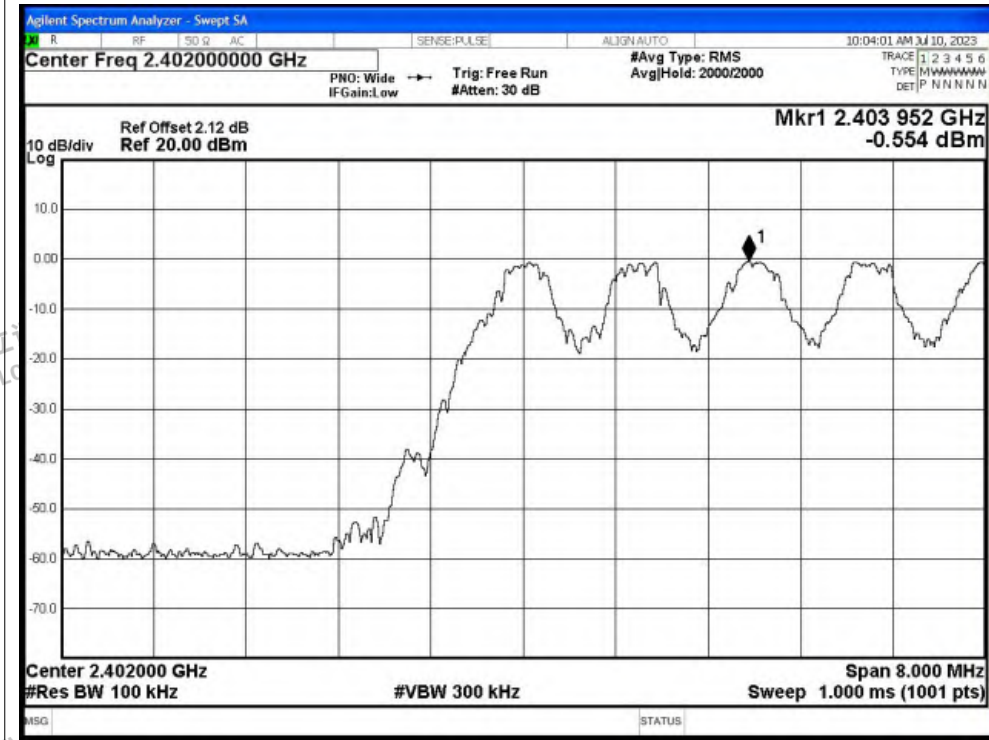
(Hopping)

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-55.85	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-56.29	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-54.53	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-53.26	-20	Pass

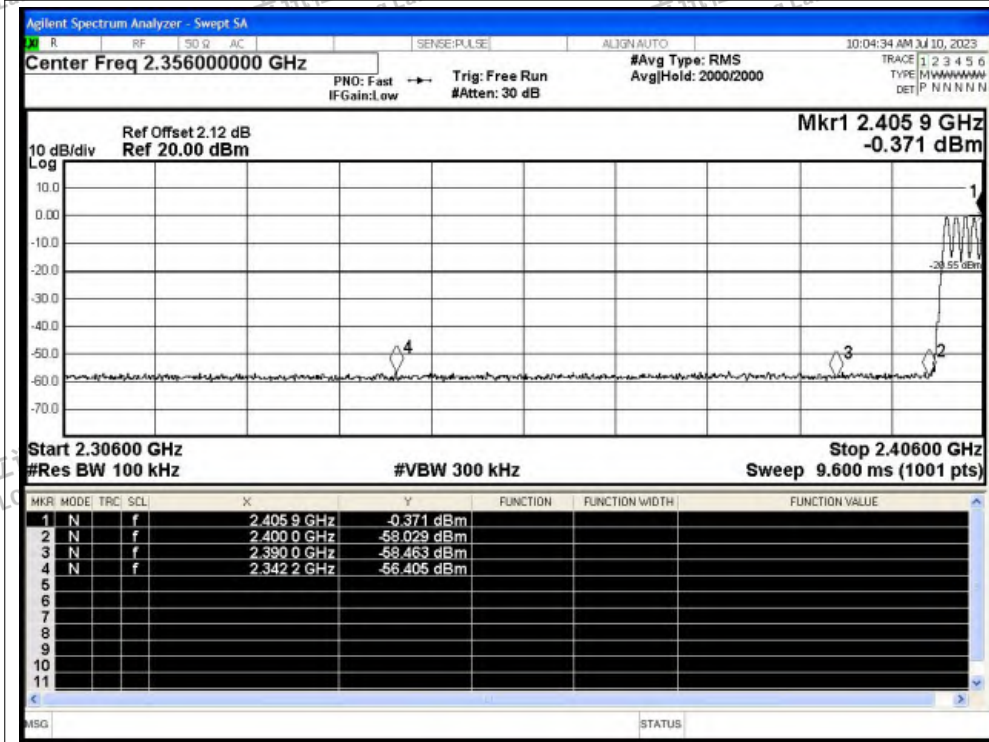


Test Graphs

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

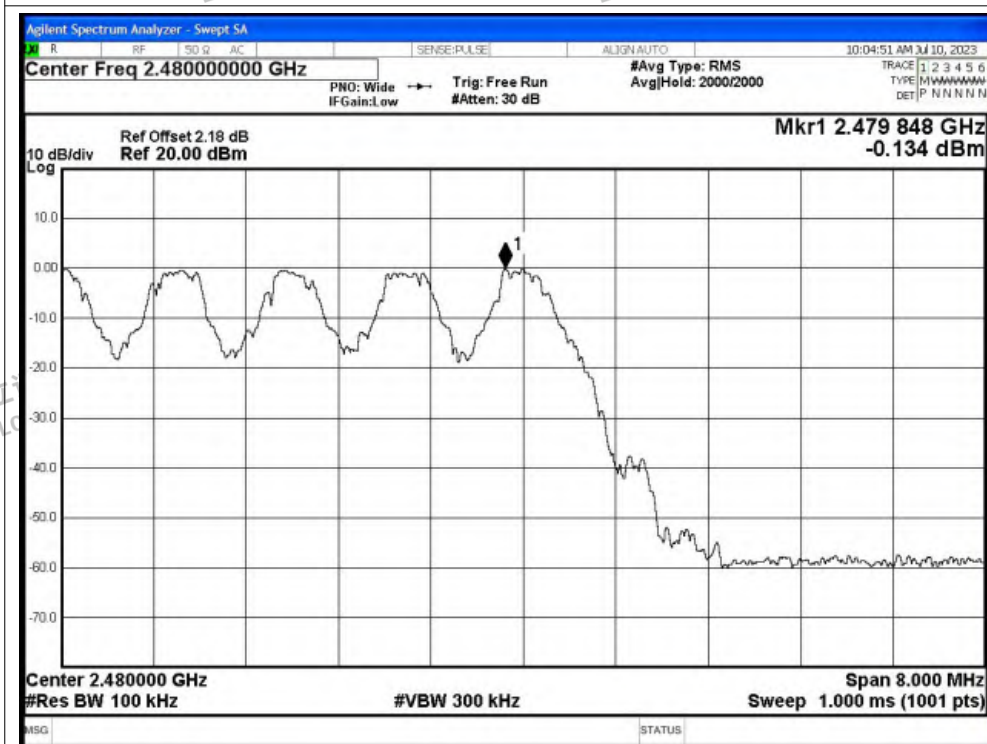


Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission

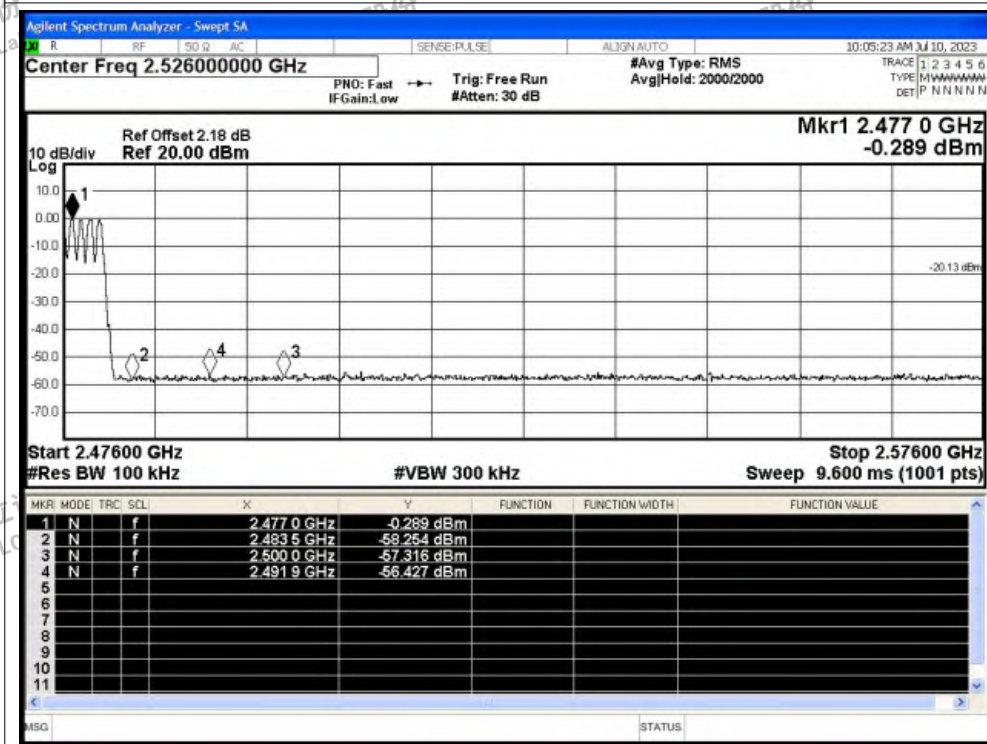




Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Ref

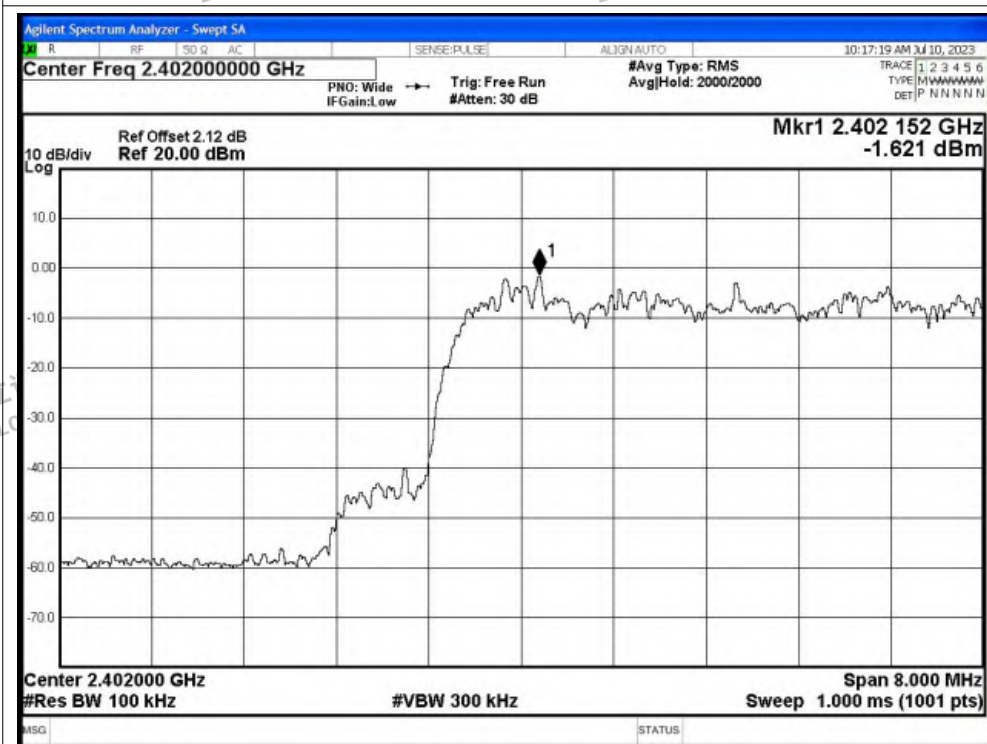


Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Emission

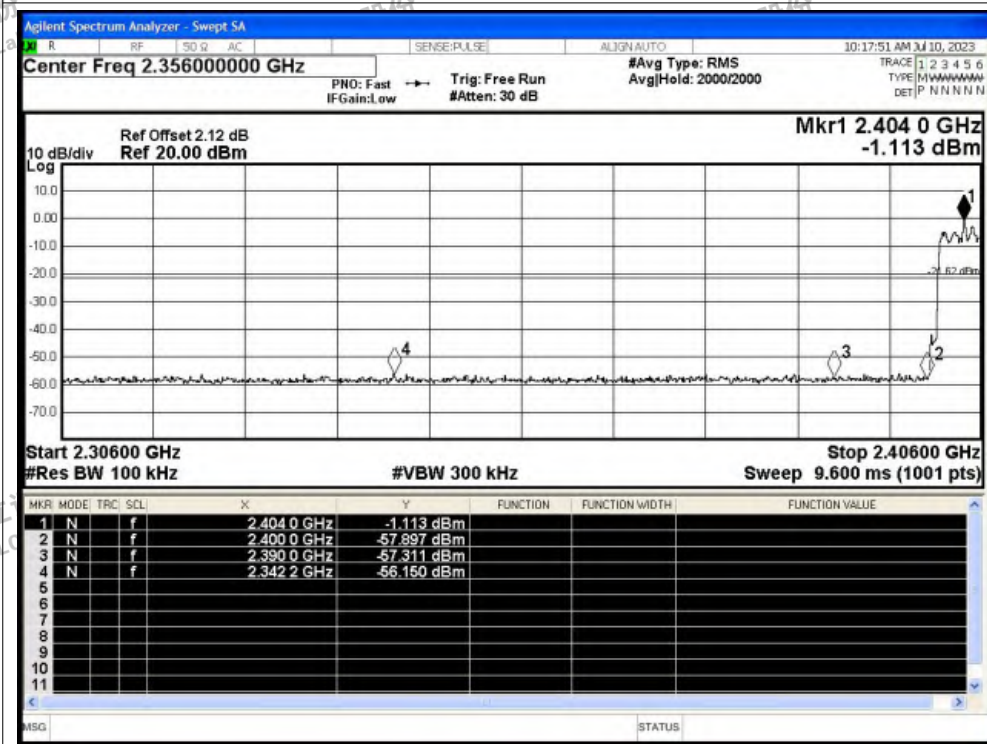




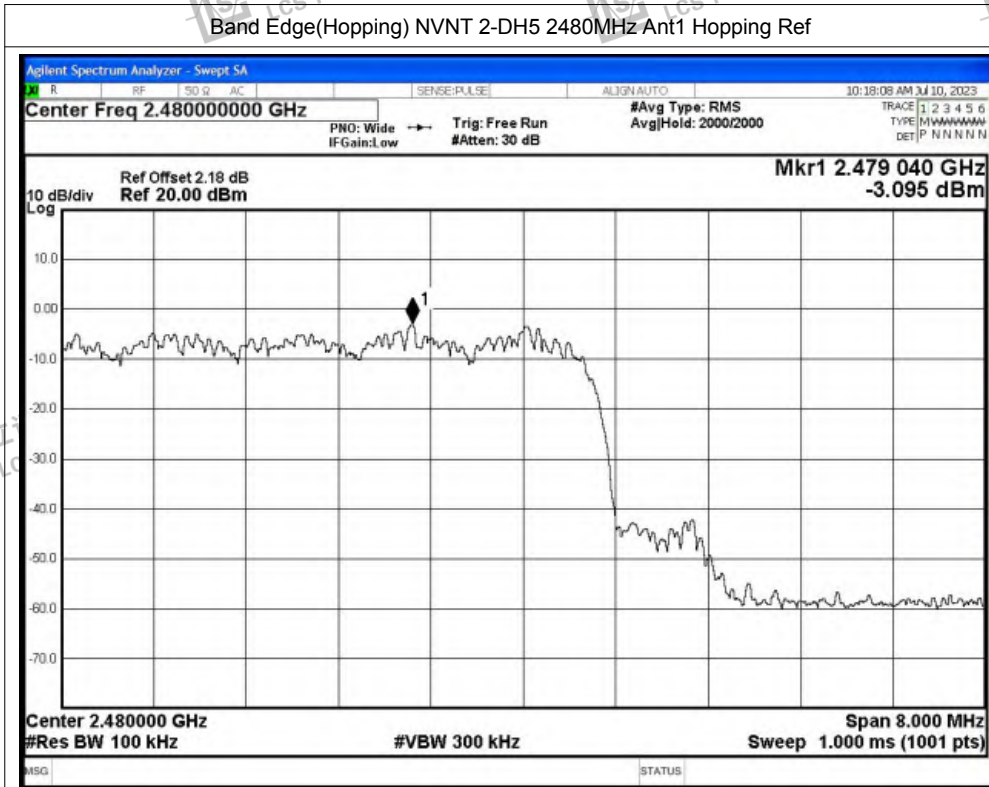
Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Ref



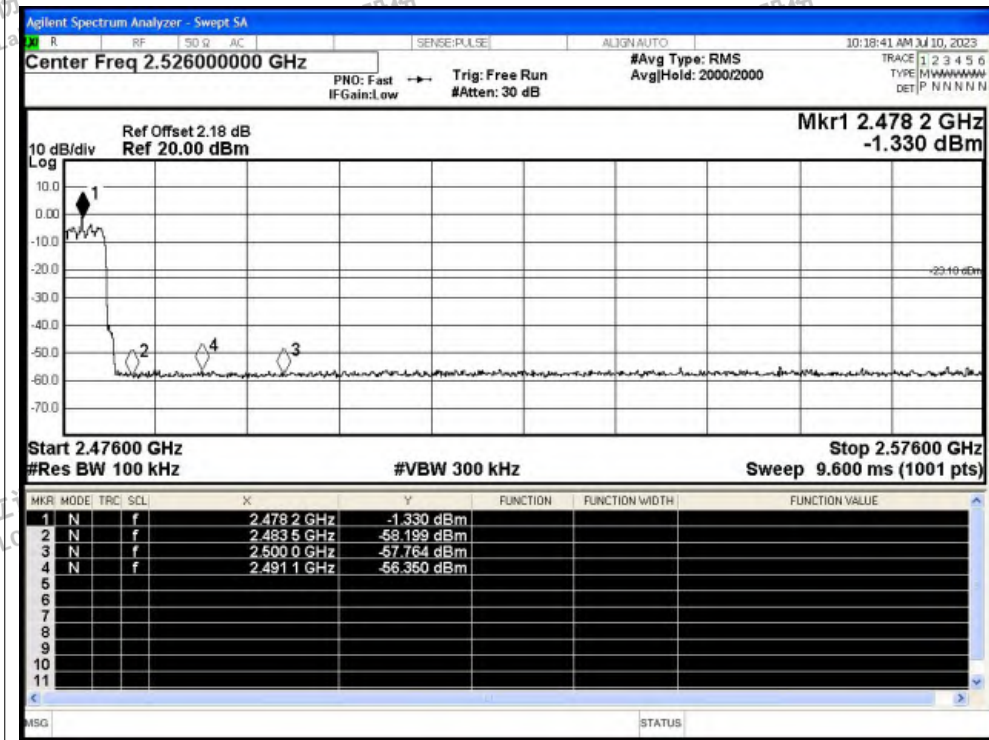
Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Emission



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



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





A.7 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-54.99	-20	Pass
NVNT	1-DH5	2441	Ant1	-54.35	-20	Pass
NVNT	1-DH5	2480	Ant1	-55.03	-20	Pass
NVNT	2-DH5	2402	Ant1	-54.48	-20	Pass
NVNT	2-DH5	2441	Ant1	-55.05	-20	Pass
NVNT	2-DH5	2480	Ant1	-53.59	-20	Pass



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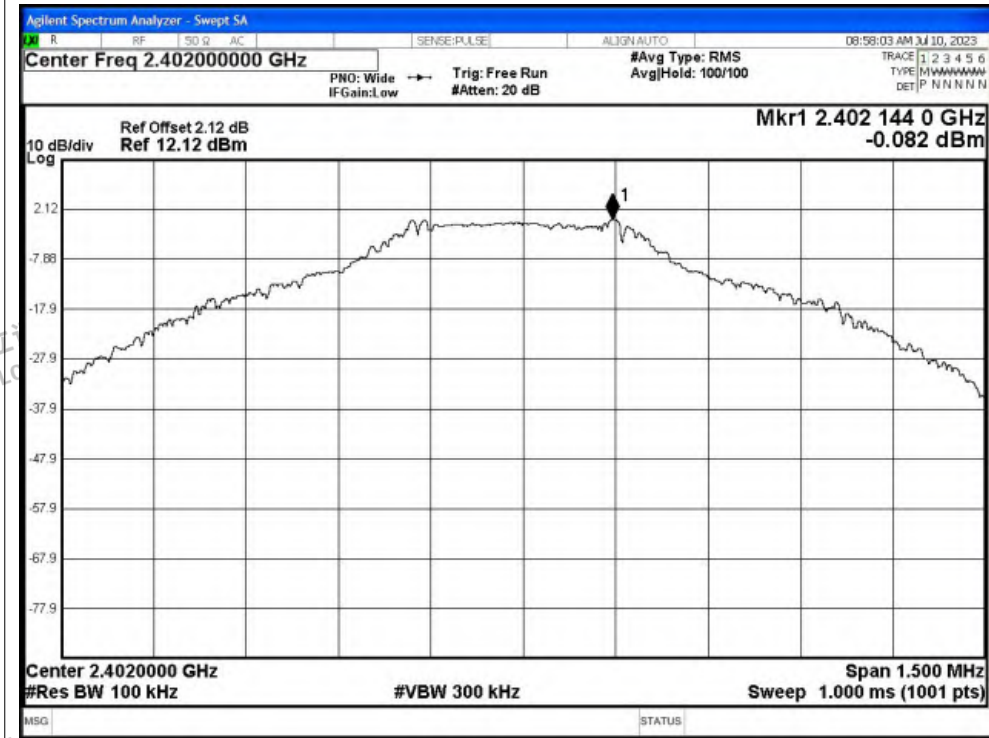
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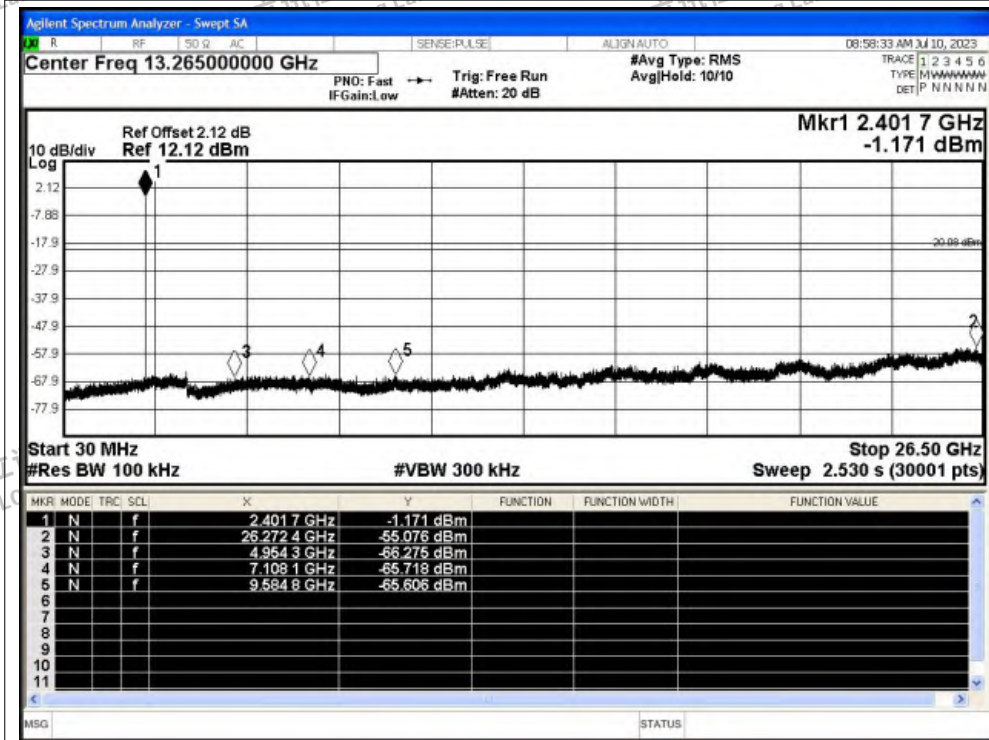


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission



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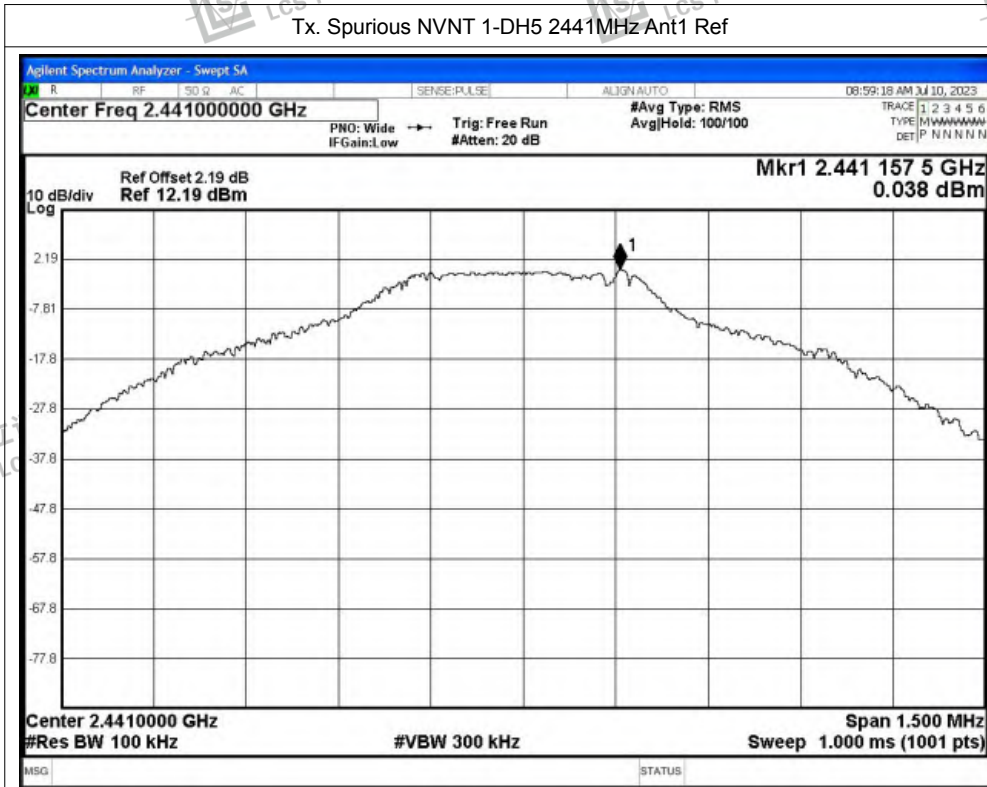
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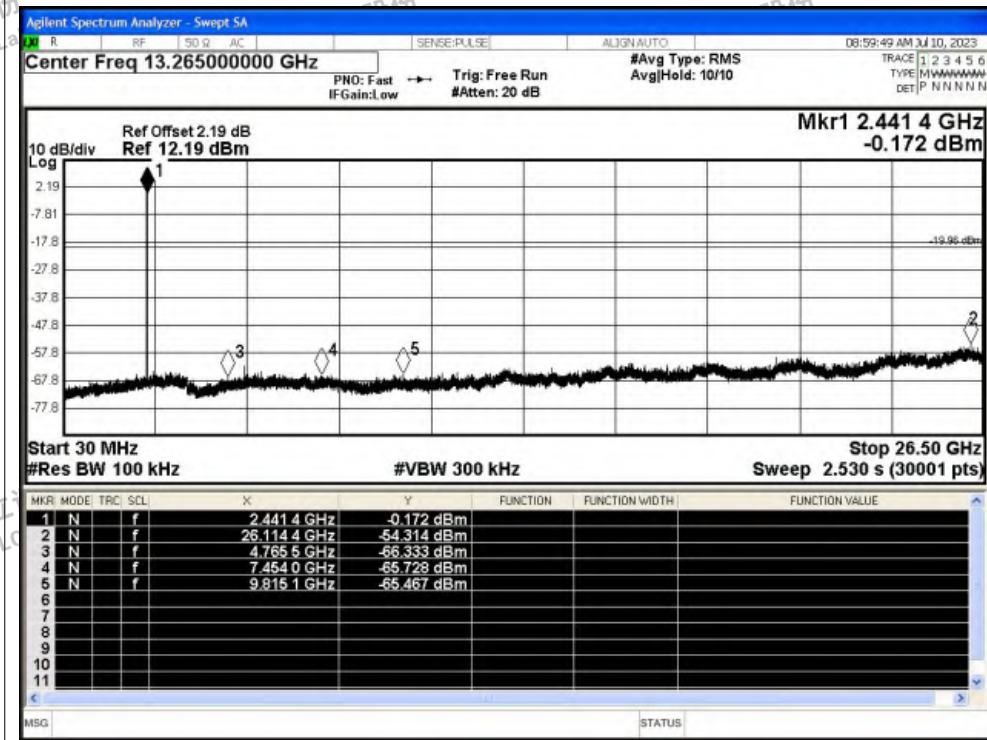
Scan code to check authenticity



Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

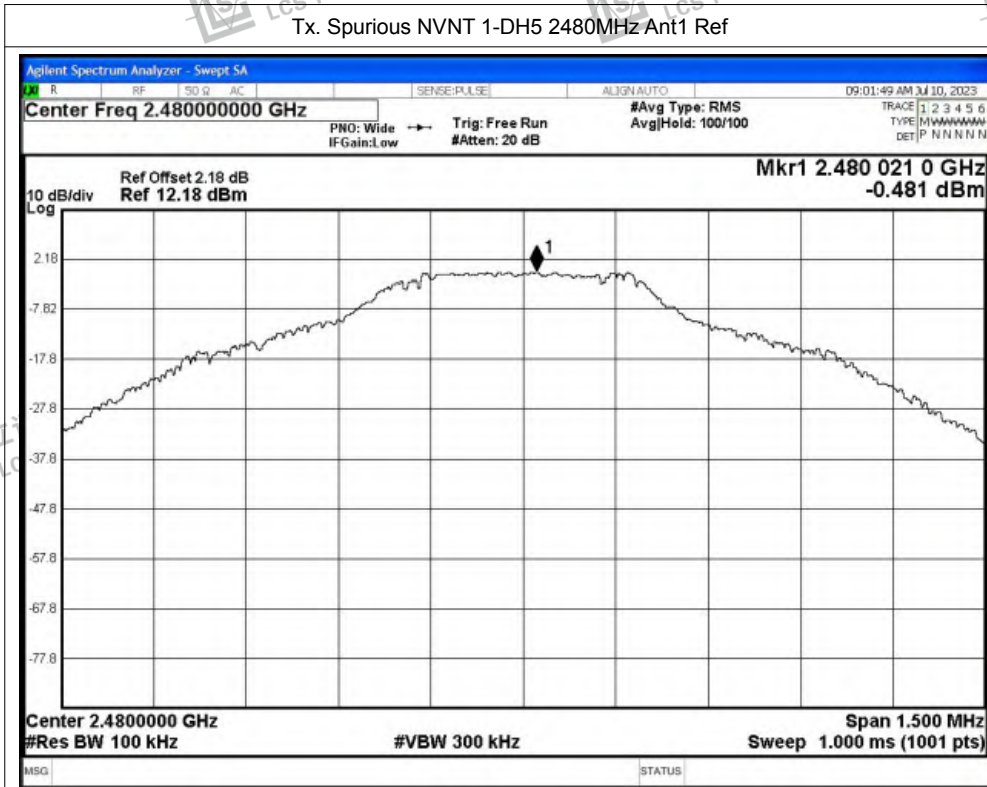
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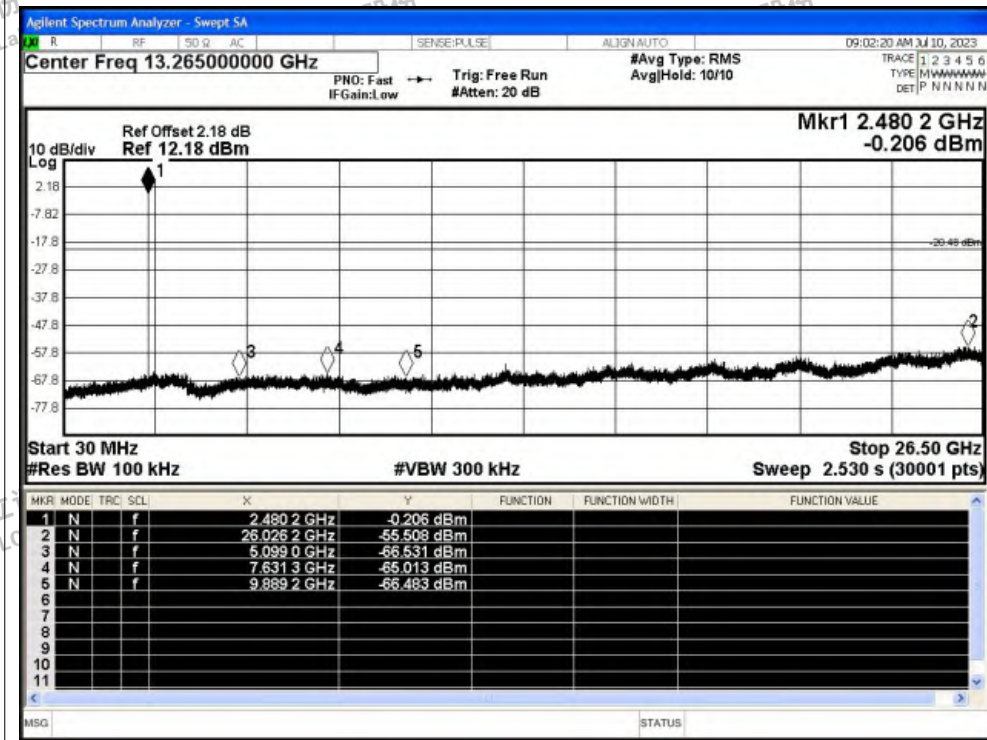
Scan code to check authenticity



Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission



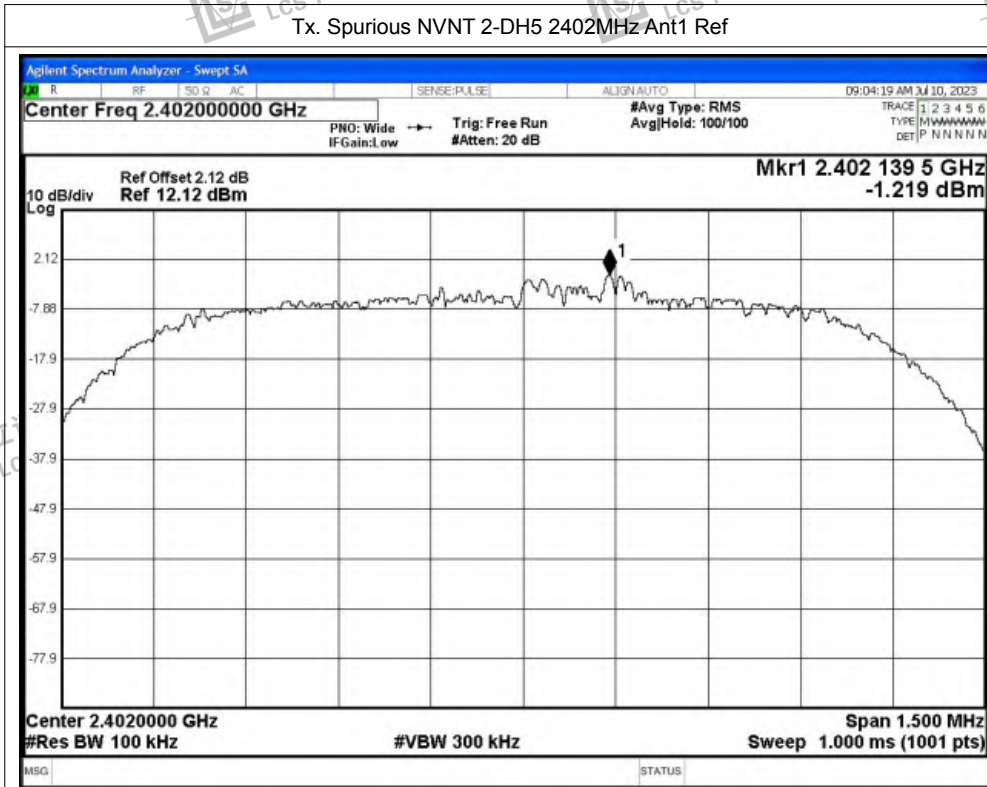
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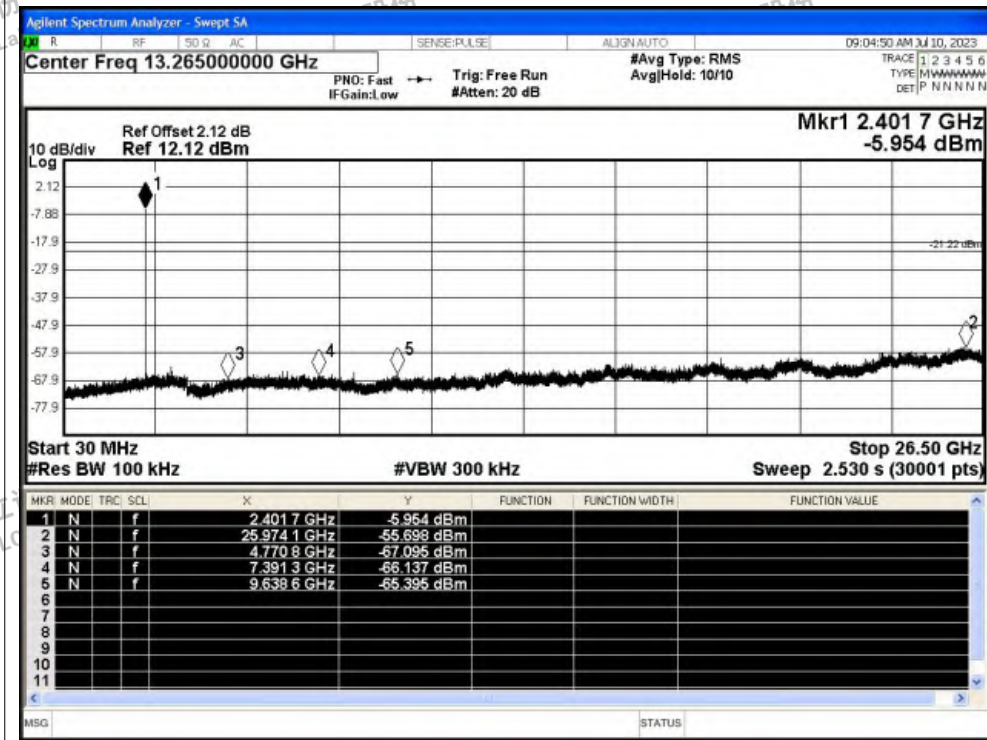
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Scan code to check authenticity

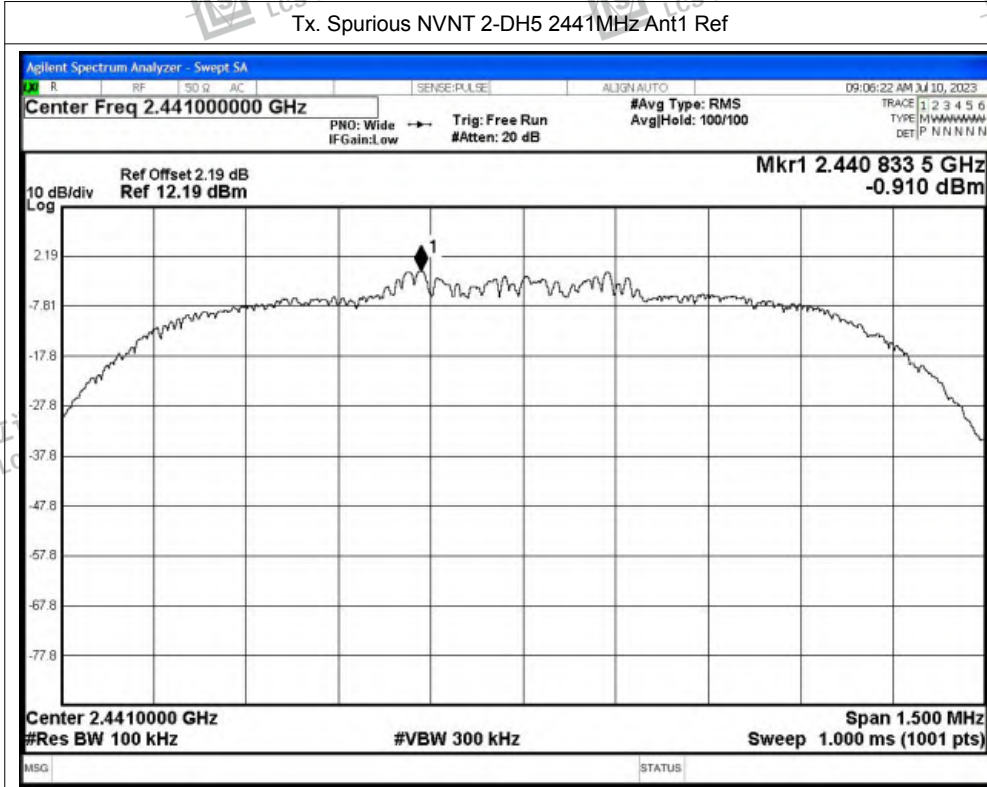
Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref



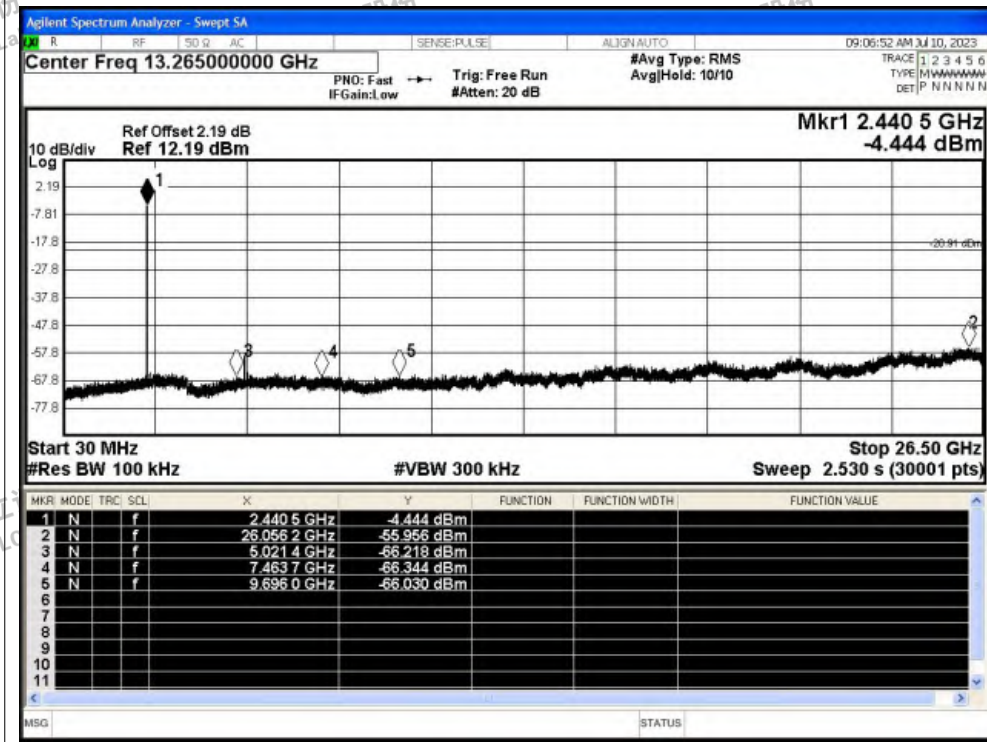
Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission



Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref

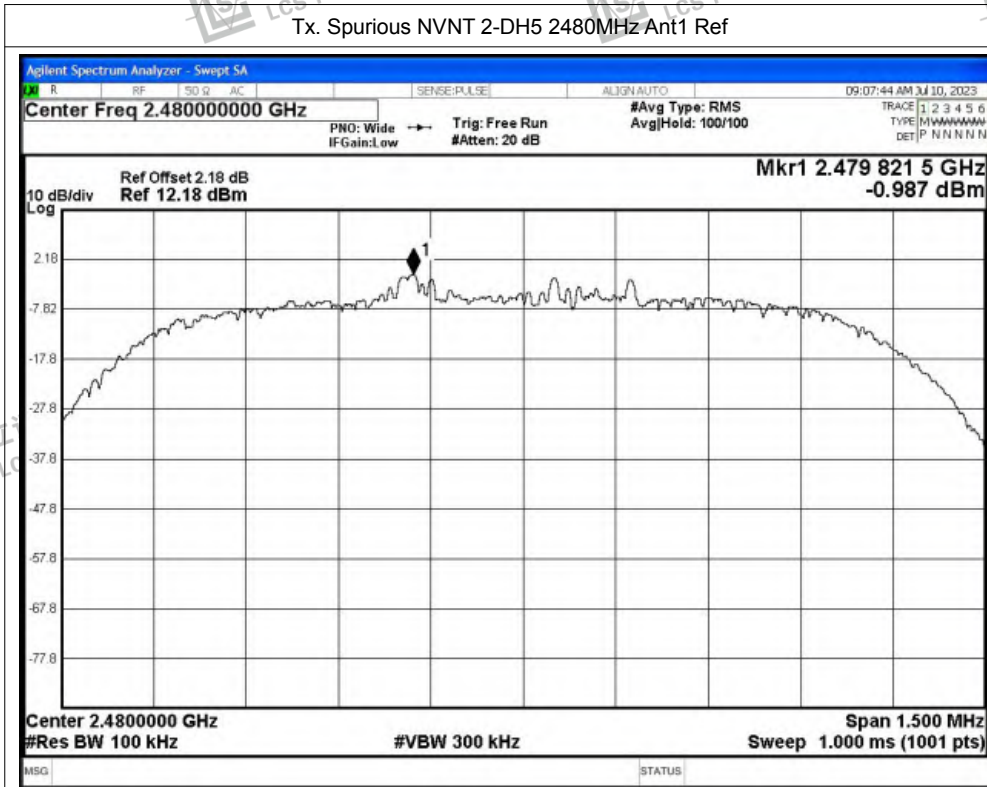


Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission

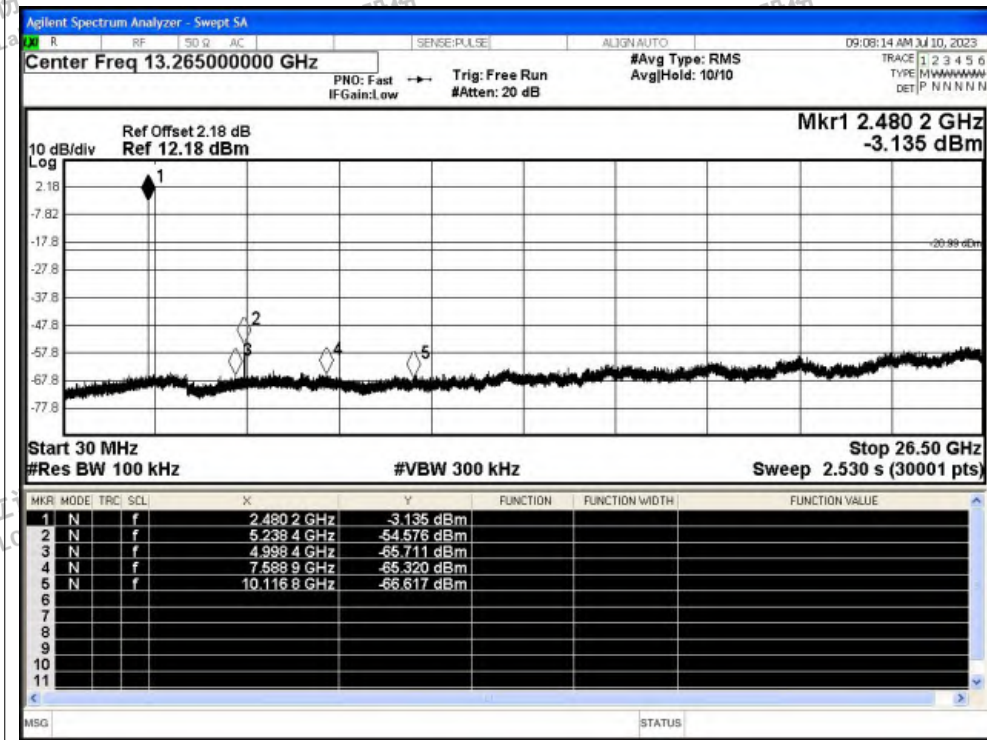




Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Emission

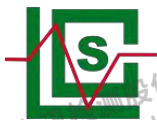


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A.8 Restrict Band

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	-50.97	2	46.29	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-57.82	2	39.44	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2367.792	-47.23	2	50.03	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2383.248	-57.38	2	39.88	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-47.9	2	49.36	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-57.53	2	39.73	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-50.08	2	47.18	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-55.72	2	41.54	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2491.912	-46.79	2	50.47	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.512	-55.72	2	41.54	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-48.7	2	48.56	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-57.23	2	40.03	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-51.04	2	46.22	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	2364.528	-47.42	2	49.84	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2376.624	-57.43	2	39.83	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-50.9	2	46.36	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-57.61	2	39.65	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-50.61	2	46.65	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-55.67	2	41.59	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2485.864	-47.24	2	50.02	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.512	-55.67	2	41.59	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-51.41	2	45.85	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-57.25	2	40.01	Average	54	Pass

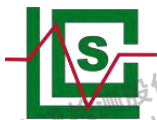


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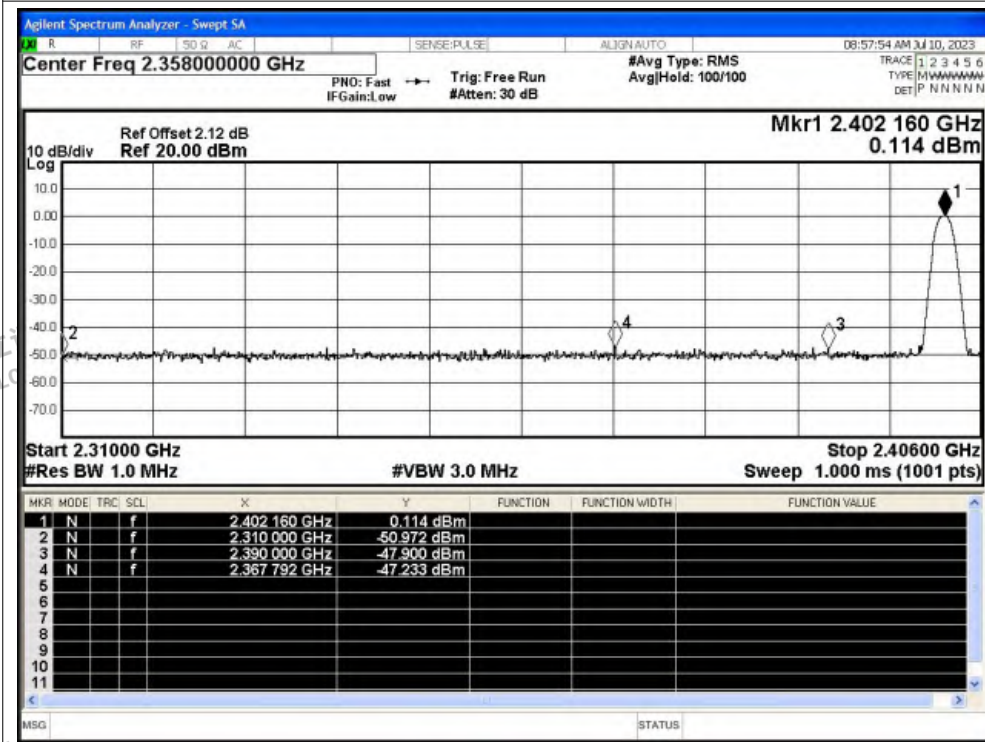
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity

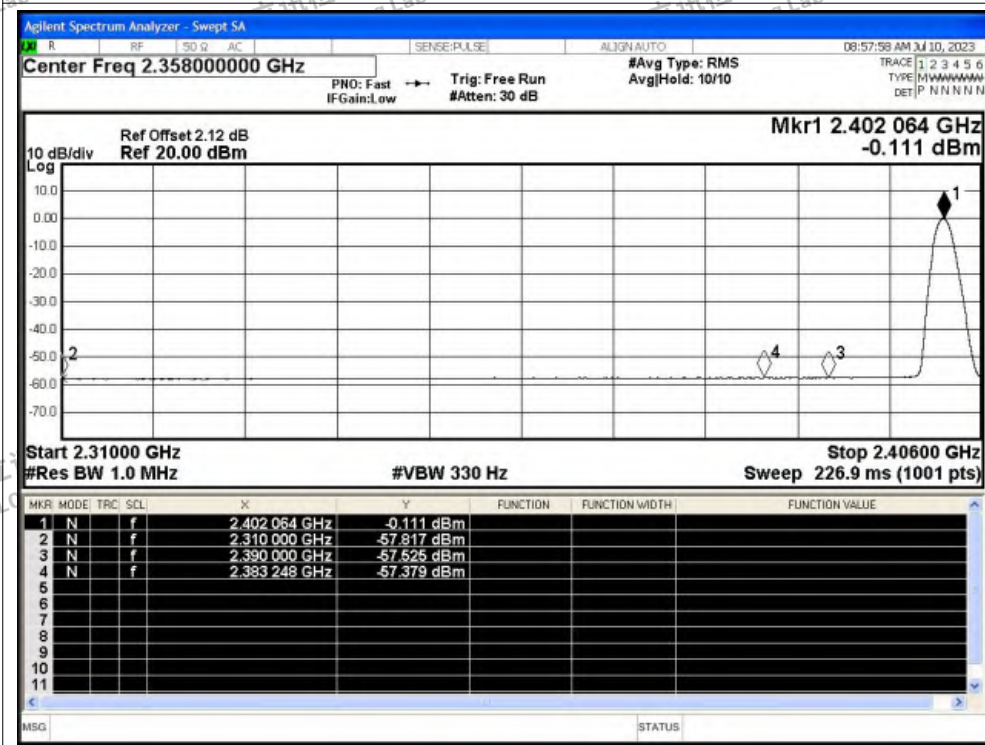


Test Graphs

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

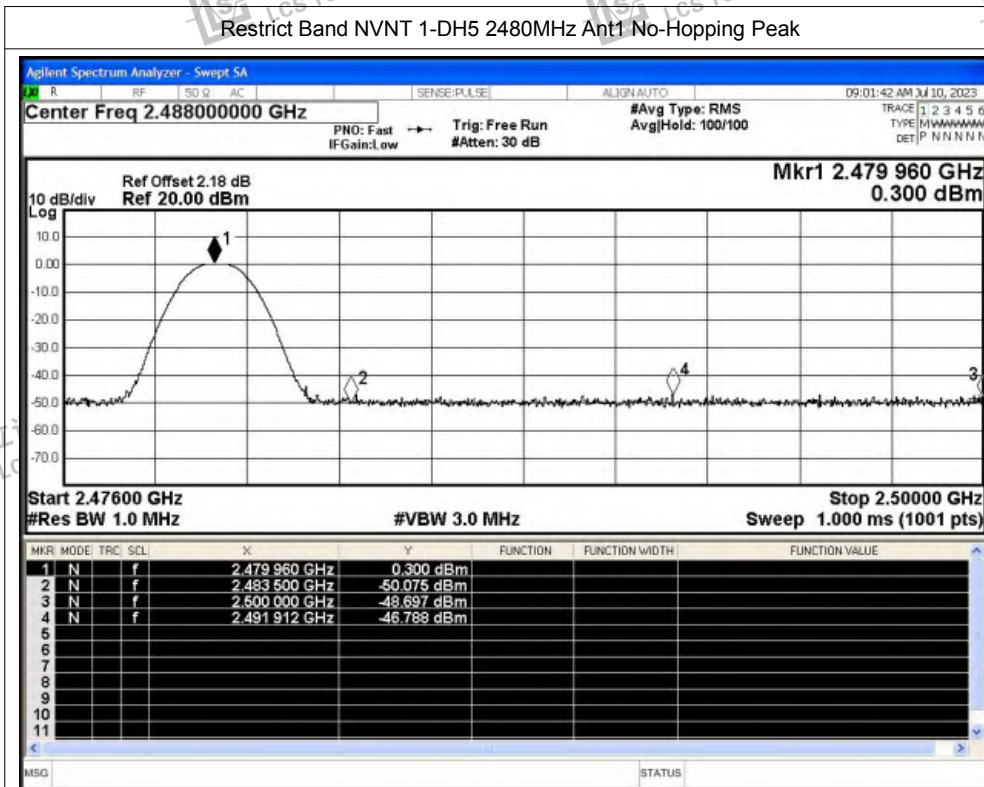


Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Average

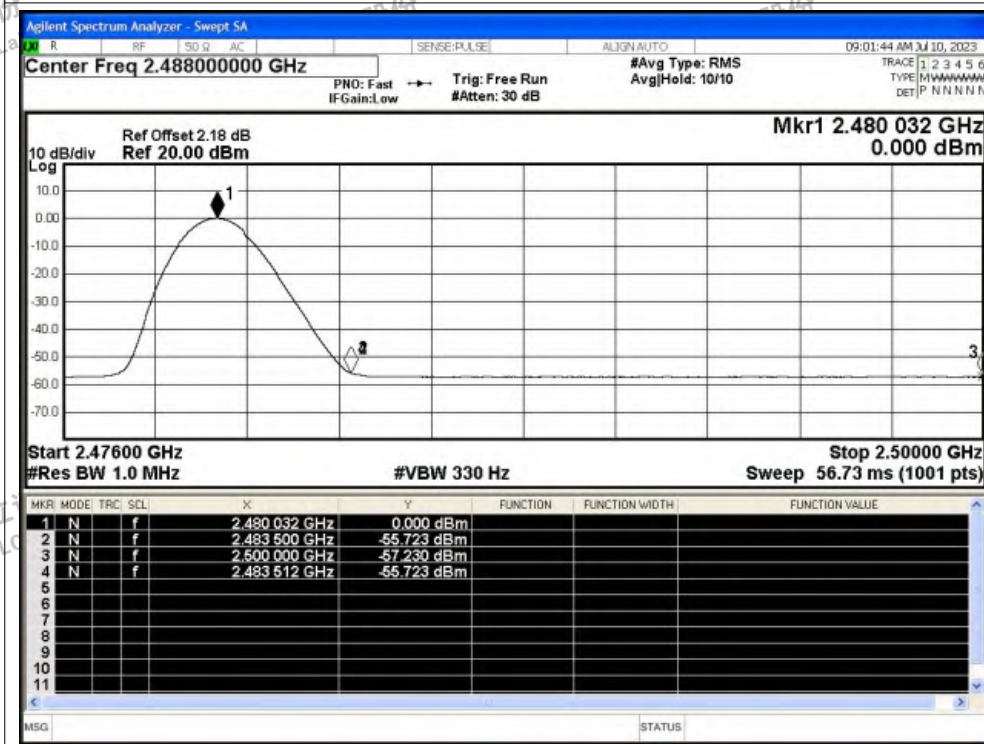




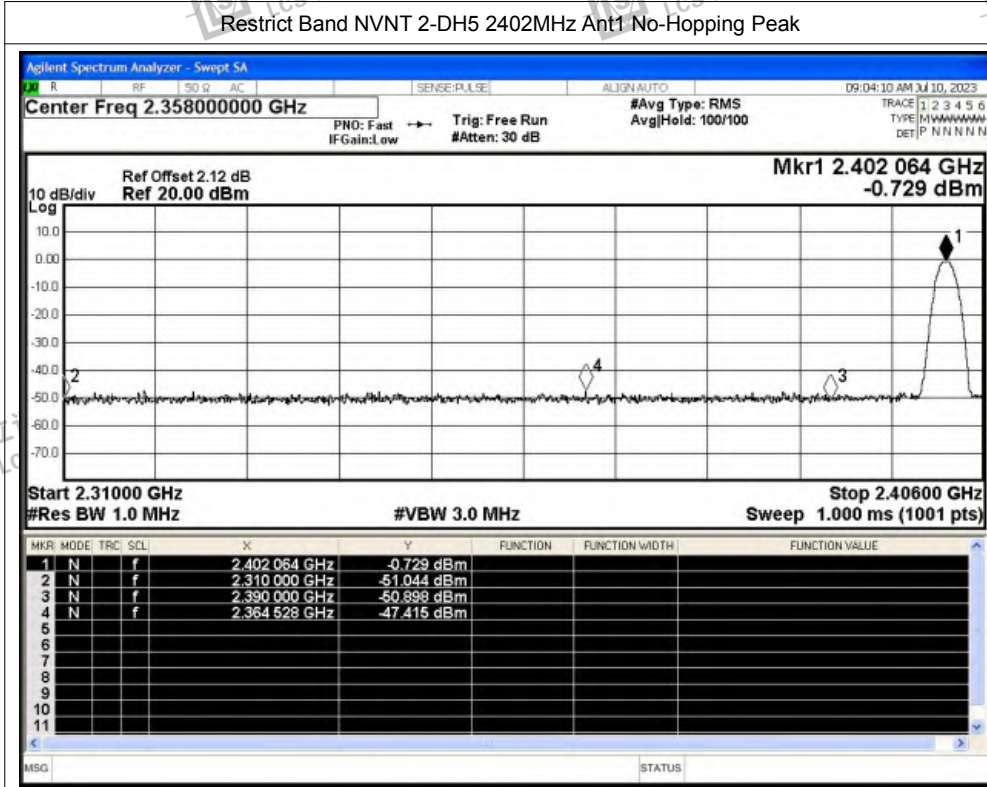
Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Peak



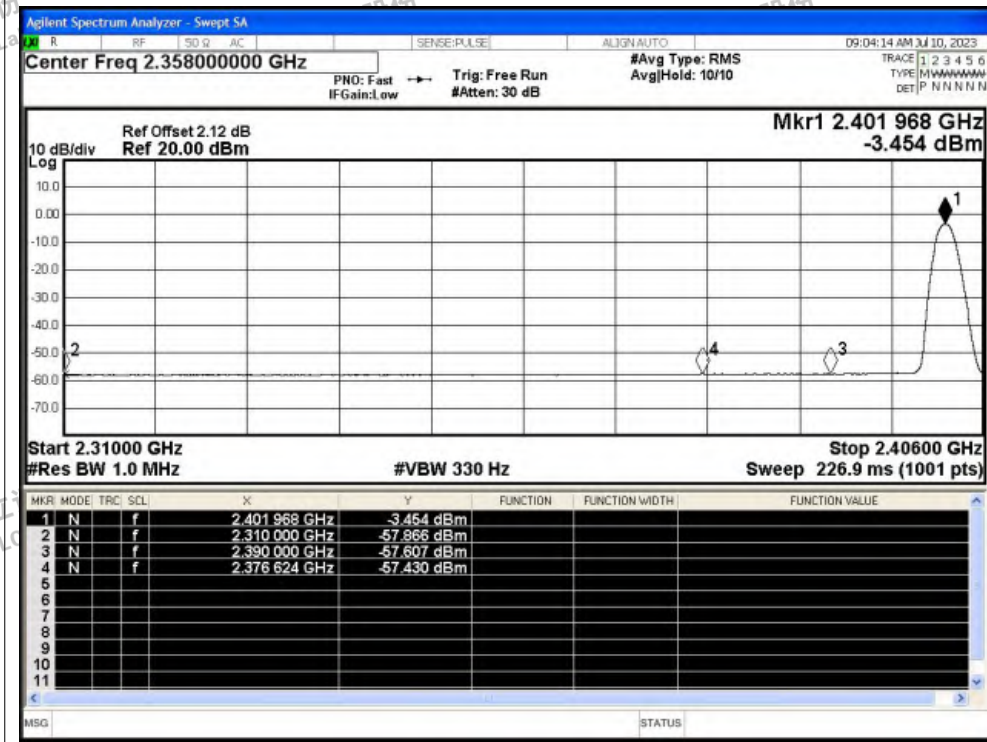
Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Average



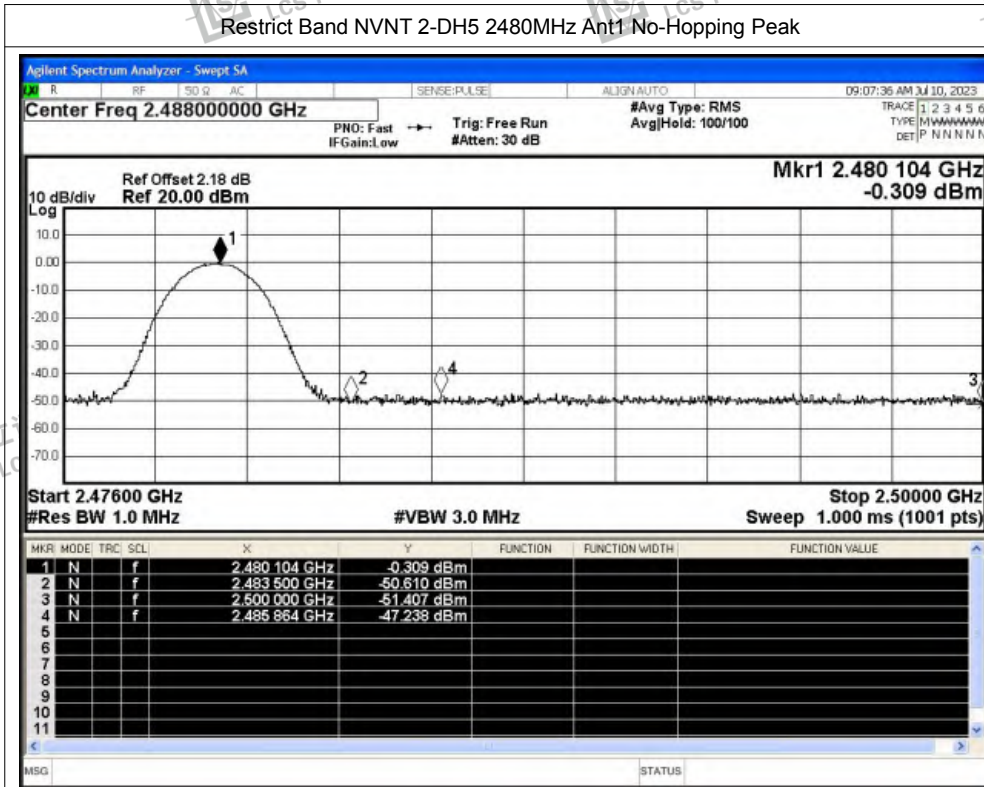
Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Peak



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



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



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

