



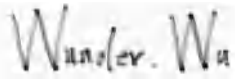
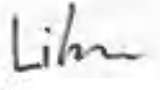
Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Formuler Z10

Test Model: Z10

Environmental Conditions

Temperature:	23.5°C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	 Wunder Wu
Supervised by:	 Li Huan





A.1 -20dB Bandwidth

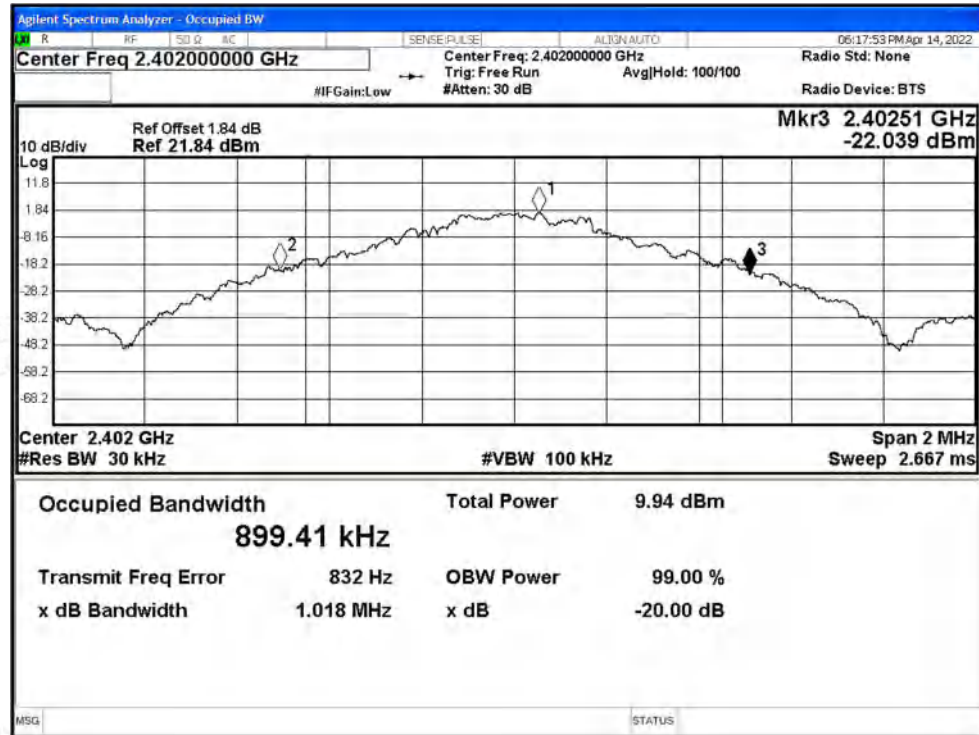
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	1.018	0	Pass
NVNT	1-DH5	2441	Ant1	1.026	0	Pass
NVNT	1-DH5	2480	Ant1	0.966	0	Pass
NVNT	2-DH5	2402	Ant1	1.317	0	Pass
NVNT	2-DH5	2441	Ant1	1.281	0	Pass
NVNT	2-DH5	2480	Ant1	1.287	0	Pass
NVNT	3-DH5	2402	Ant1	1.296	0	Pass
NVNT	3-DH5	2441	Ant1	1.279	0	Pass
NVNT	3-DH5	2480	Ant1	1.281	0	Pass



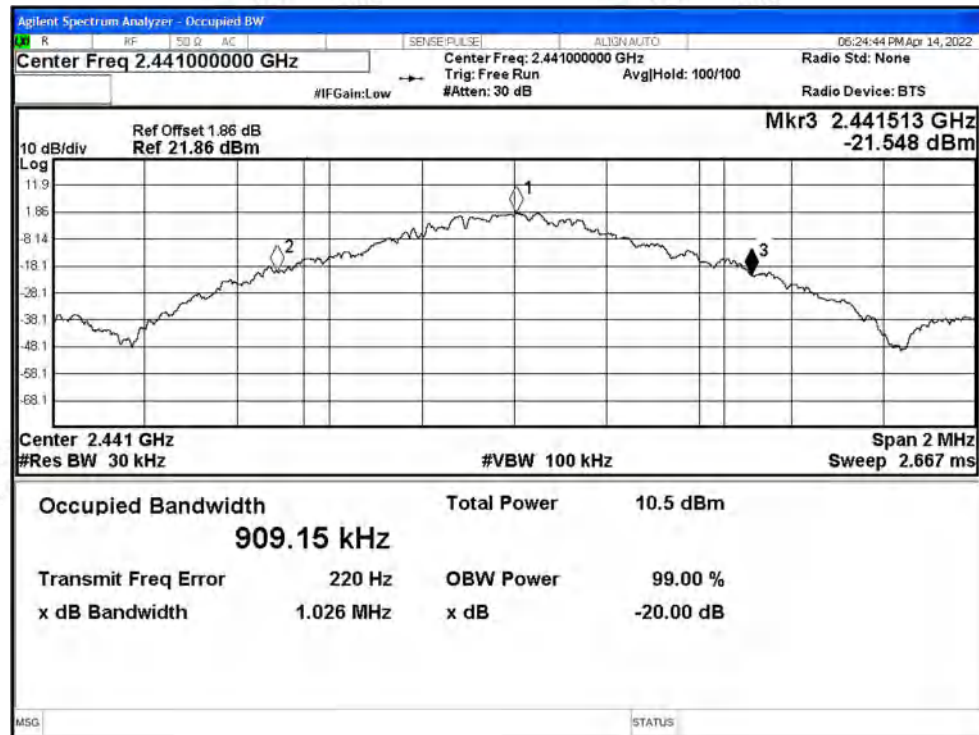


Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1





-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1

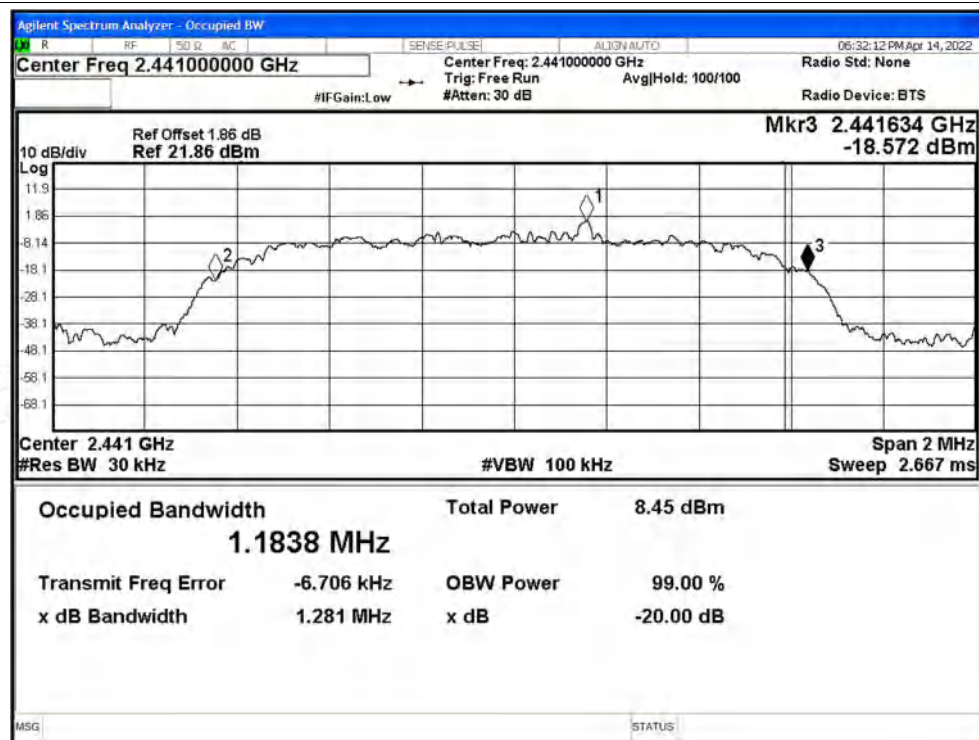


-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1





-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1

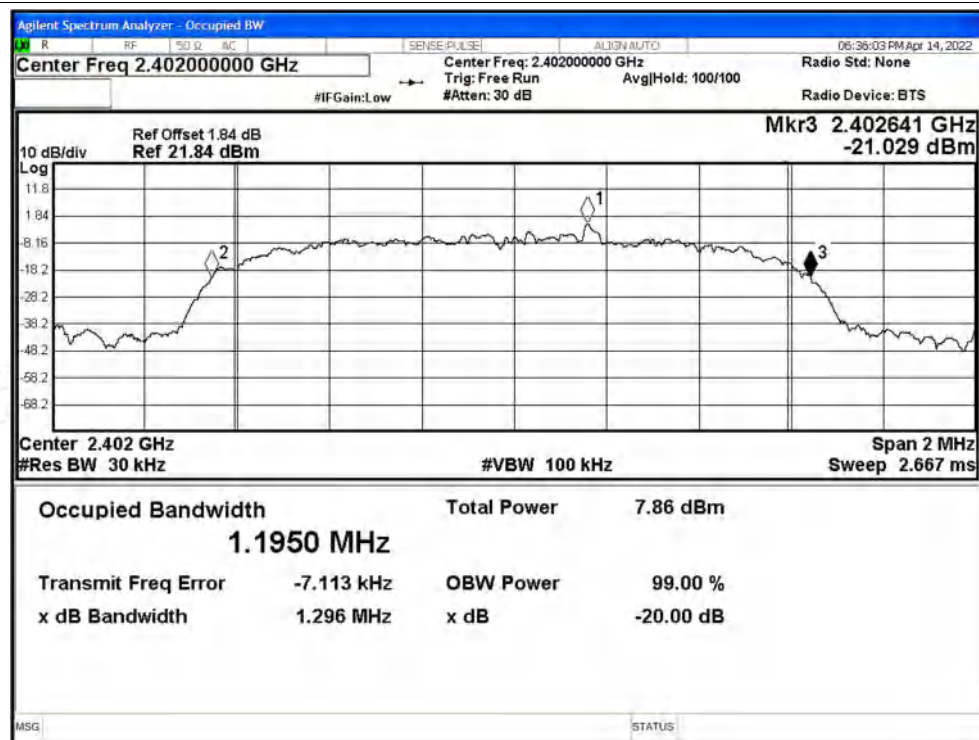


-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1

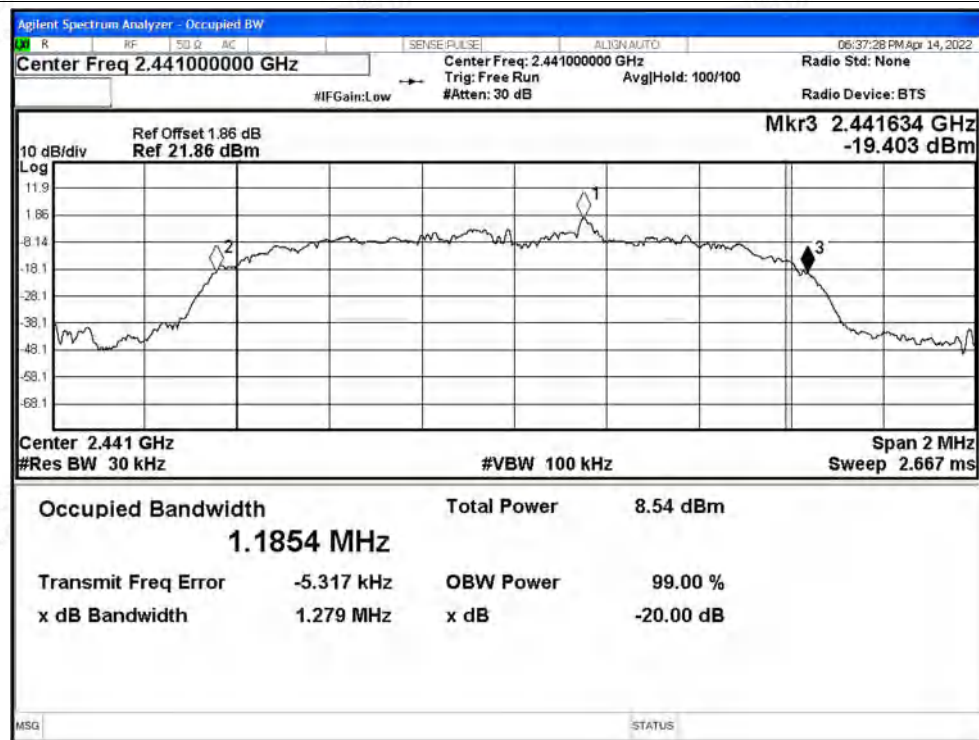




-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1

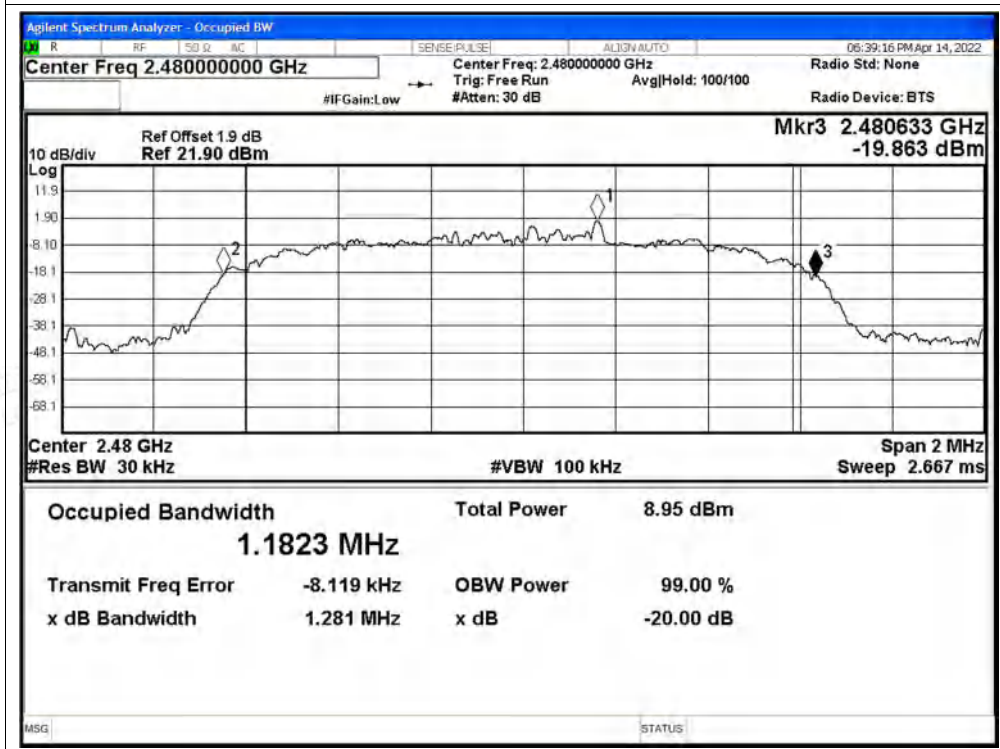


-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1





-20dB Bandwidth NVNT 3-DH5 2480MHz Ant1





A.2 Maximum Peak Conducted Output Power

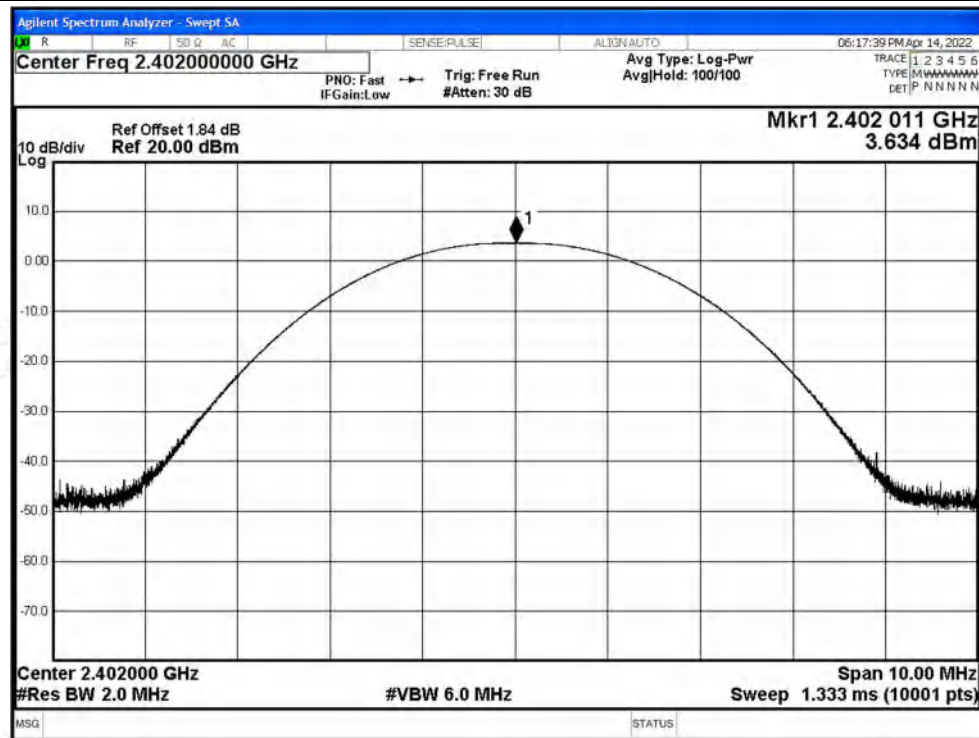
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	3.63	0	3.63	21	Pass
NVNT	1-DH5	2441	Ant1	4.44	0	4.44	21	Pass
NVNT	1-DH5	2480	Ant1	4.53	0	4.53	21	Pass
NVNT	2-DH5	2402	Ant1	3.73	0	3.73	21	Pass
NVNT	2-DH5	2441	Ant1	4.22	0	4.22	21	Pass
NVNT	2-DH5	2480	Ant1	4.24	0	4.24	21	Pass
NVNT	3-DH5	2402	Ant1	3.81	0	3.81	21	Pass
NVNT	3-DH5	2441	Ant1	4.25	0	4.25	21	Pass
NVNT	3-DH5	2480	Ant1	4.3	0	4.3	21	Pass



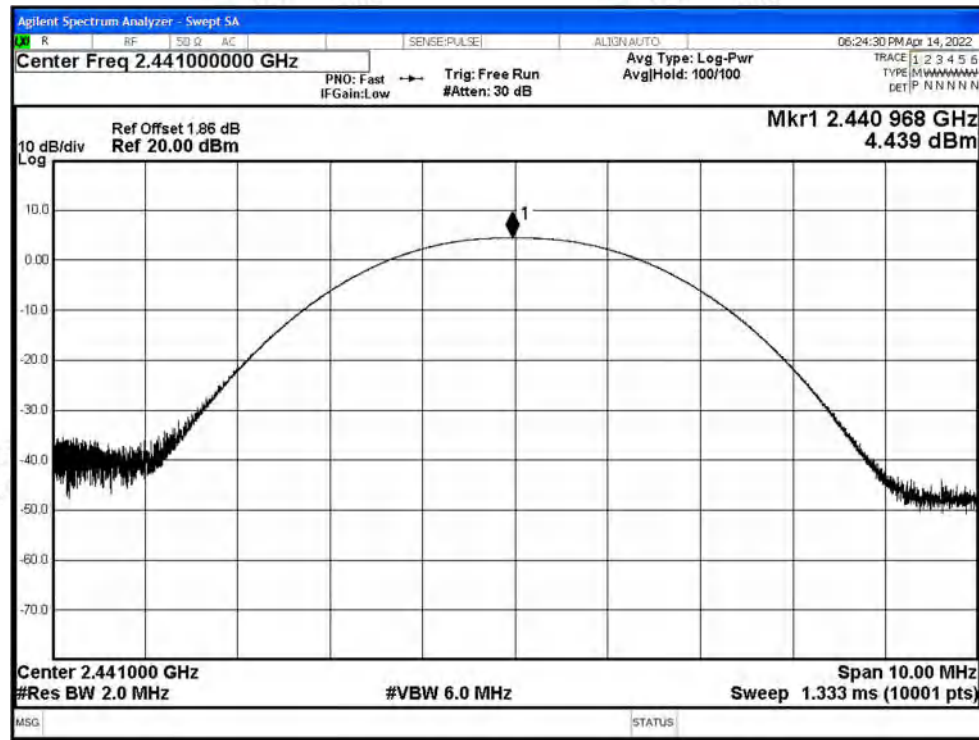


Test Graphs

Power NVNT 1-DH5 2402MHz Ant1

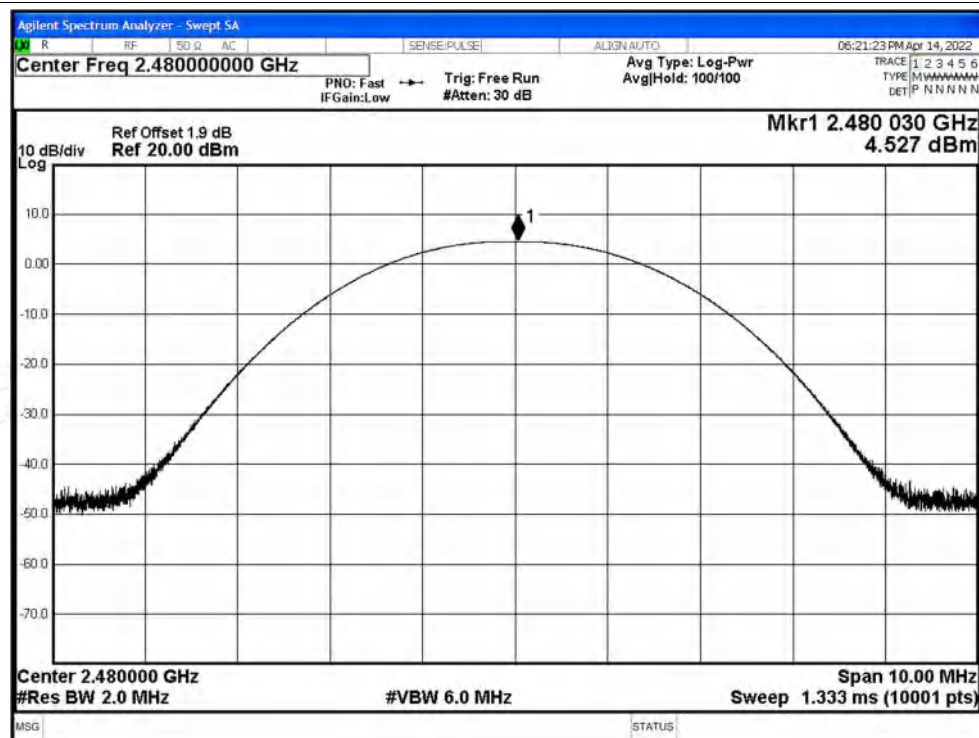


Power NVNT 1-DH5 2441MHz Ant1

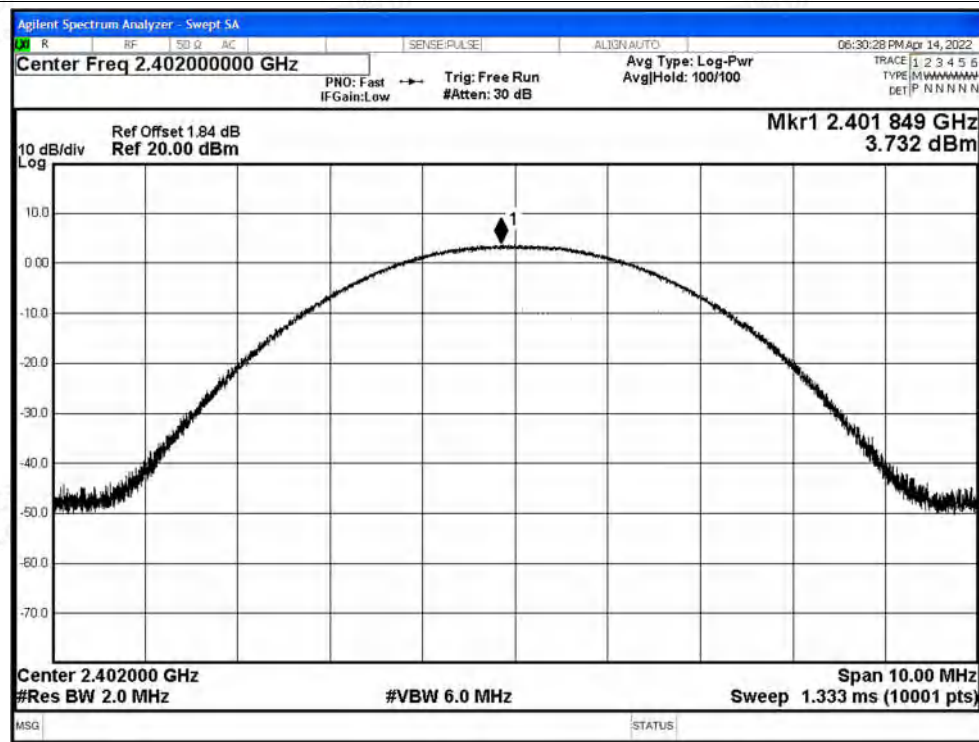




Power NVNT 1-DH5 2480MHz Ant1

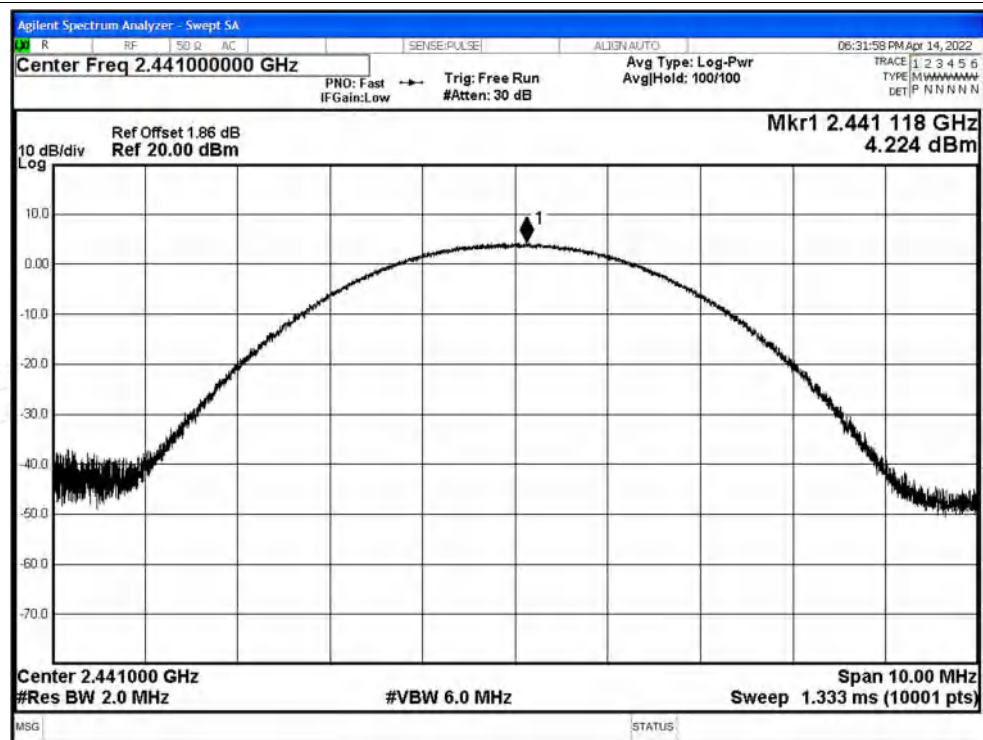


Power NVNT 2-DH5 2402MHz Ant1

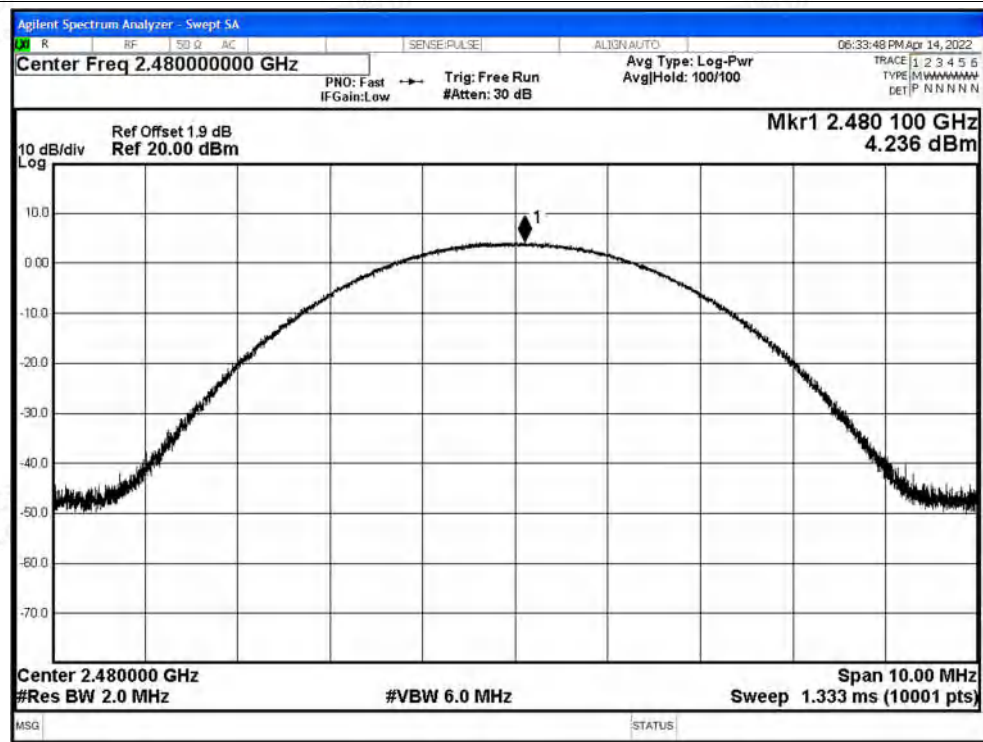




Power NVNT 2-DH5 2441MHz Ant1

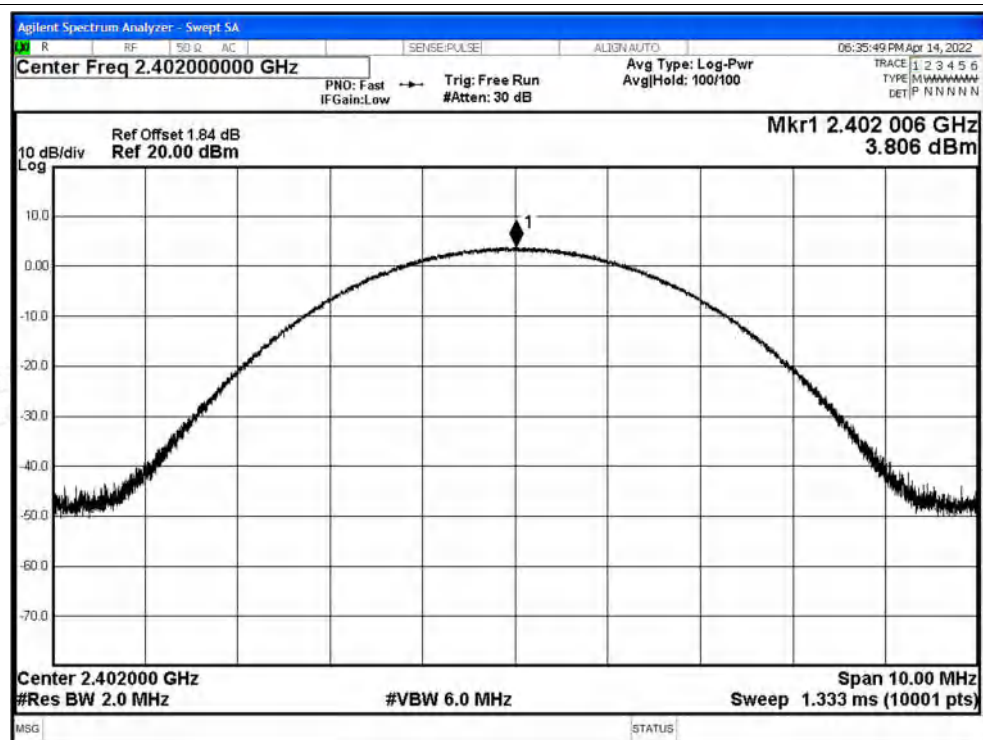


Power NVNT 2-DH5 2480MHz Ant1

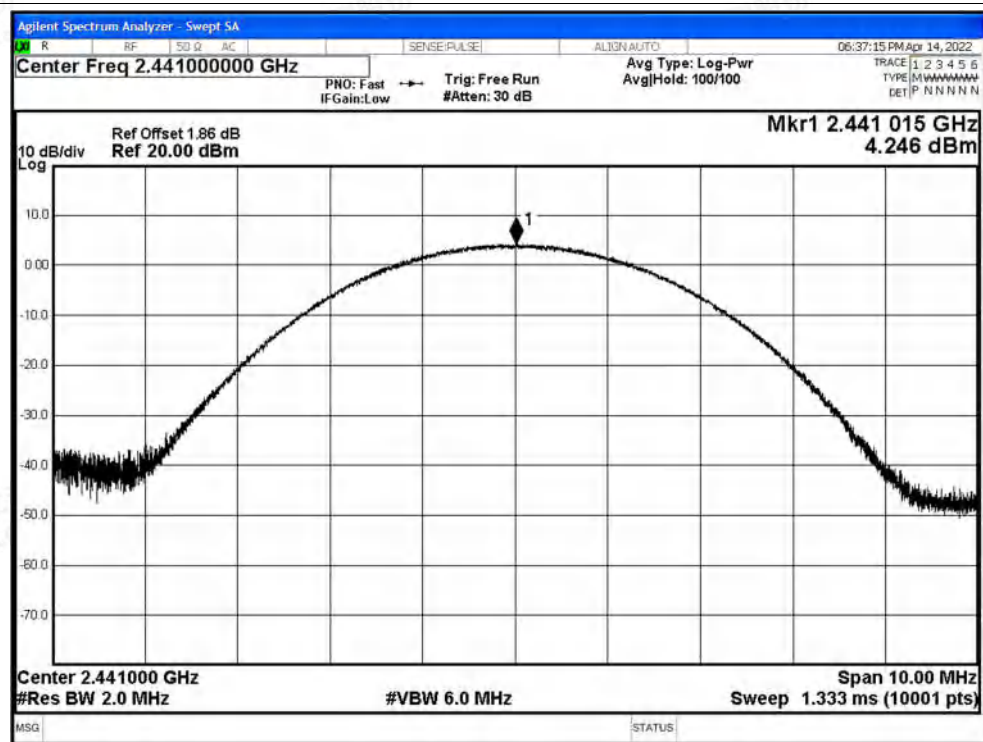


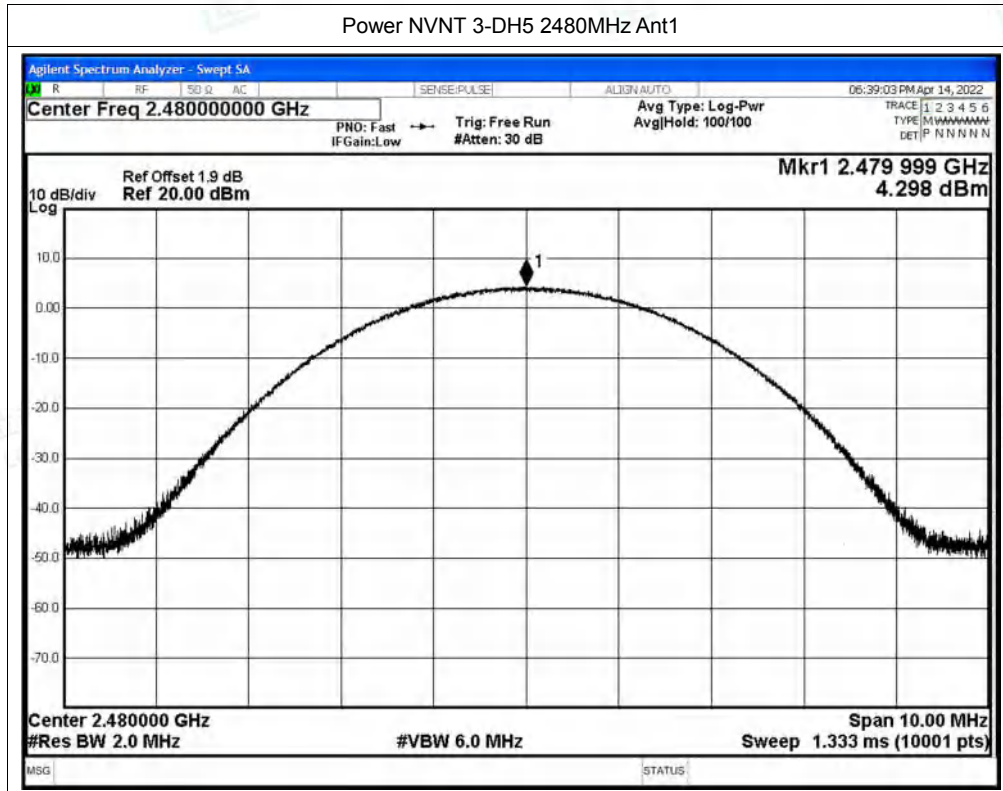


Power NVNT 3-DH5 2402MHz Ant1



Power NVNT 3-DH5 2441MHz Ant1







A.3 Carrier Frequencies Separation

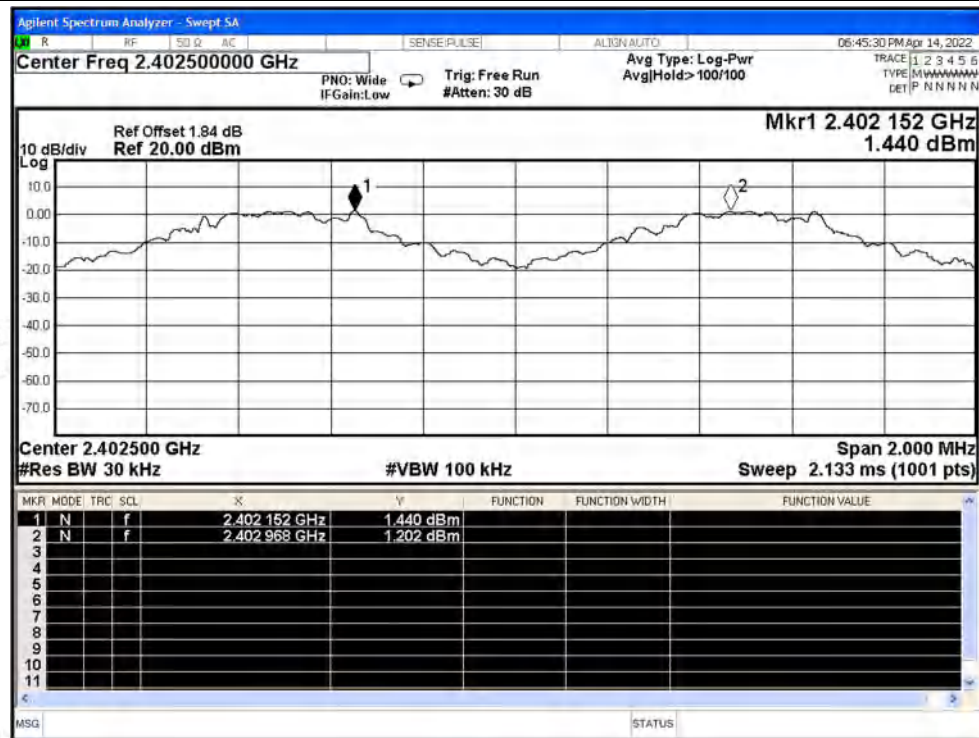
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2402.152	2402.968	0.816	0.679	Pass
NVNT	2-DH5	Ant1	2402.158	2403.158	1	0.878	Pass
NVNT	3-DH5	Ant1	2402.16	2403.166	1.006	0.864	Pass



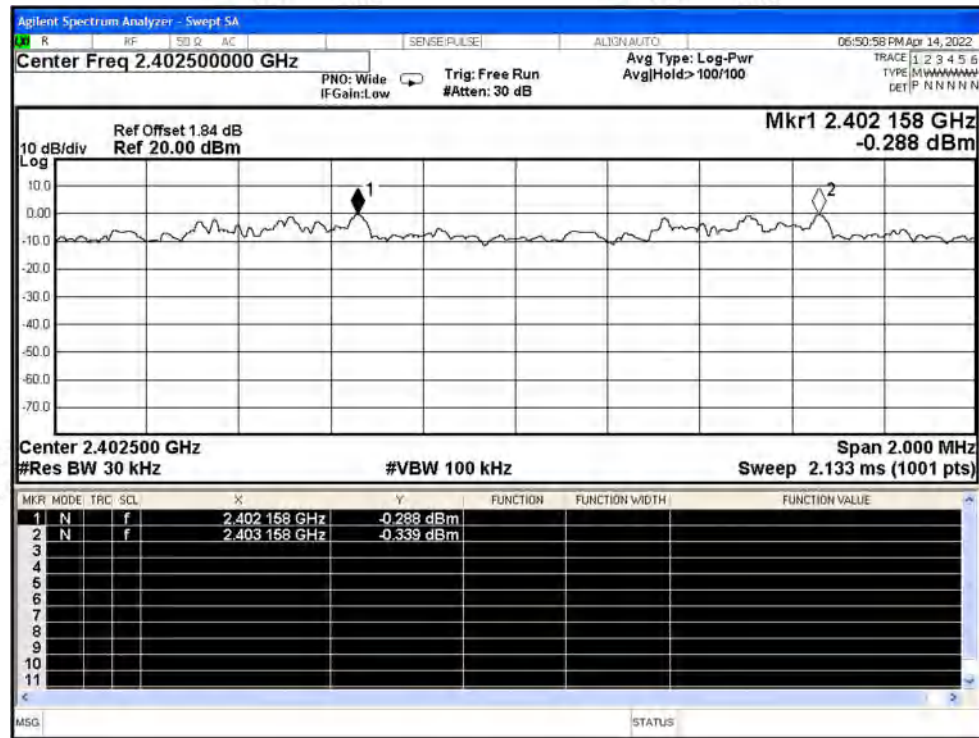


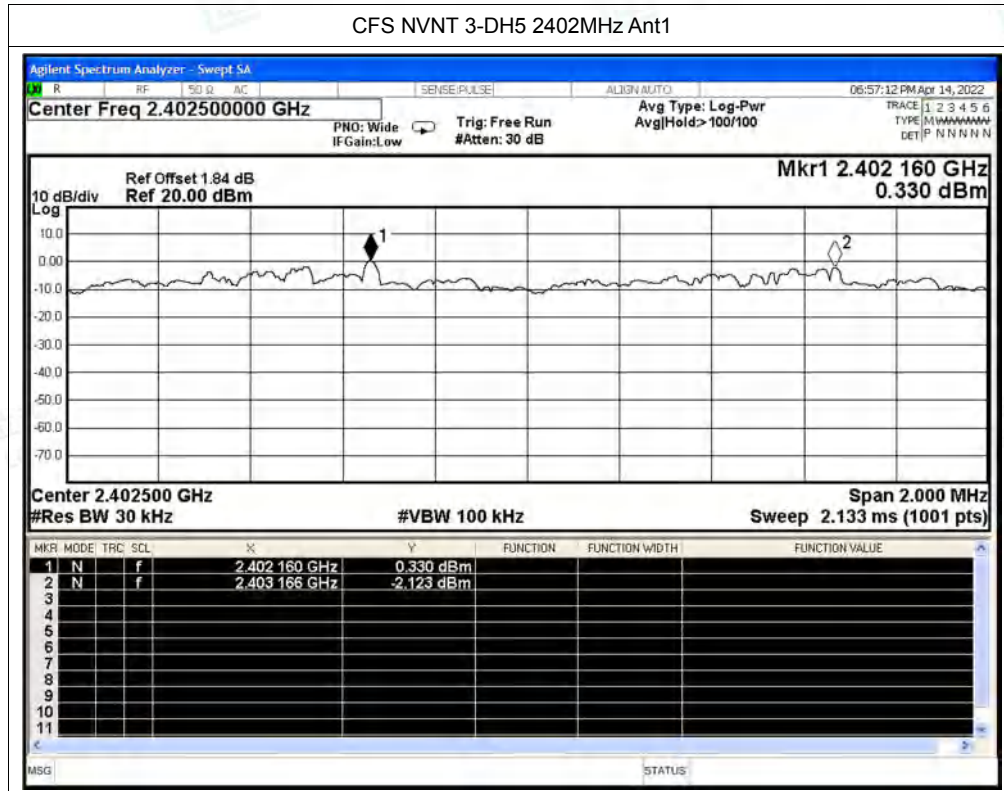
Test Graphs

CFS NVNT 1-DH5 2402MHz Ant1



CFS NVNT 2-DH5 2402MHz Ant1







A.4 Dwell Time

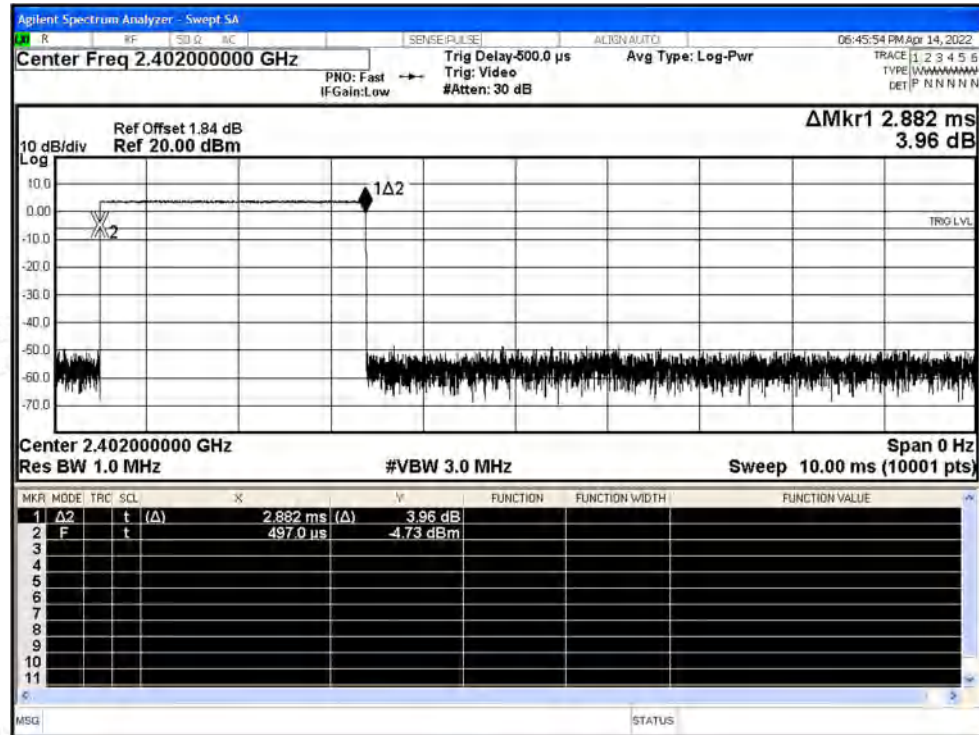
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH5	2402	Ant1	2.882	308.374	107	31600	400	Pass
NVNT	1-DH5	2441	Ant1	2.882	291.082	101	31600	400	Pass
NVNT	1-DH5	2480	Ant1	2.882	282.436	98	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.885	331.775	115	31600	400	Pass
NVNT	2-DH5	2441	Ant1	2.881	288.1	100	31600	400	Pass
NVNT	2-DH5	2480	Ant1	2.883	279.651	97	31600	400	Pass
NVNT	3-DH5	2402	Ant1	2.887	300.248	104	31600	400	Pass
NVNT	3-DH5	2441	Ant1	2.885	291.385	101	31600	400	Pass
NVNT	3-DH5	2480	Ant1	2.887	329.118	114	31600	400	Pass



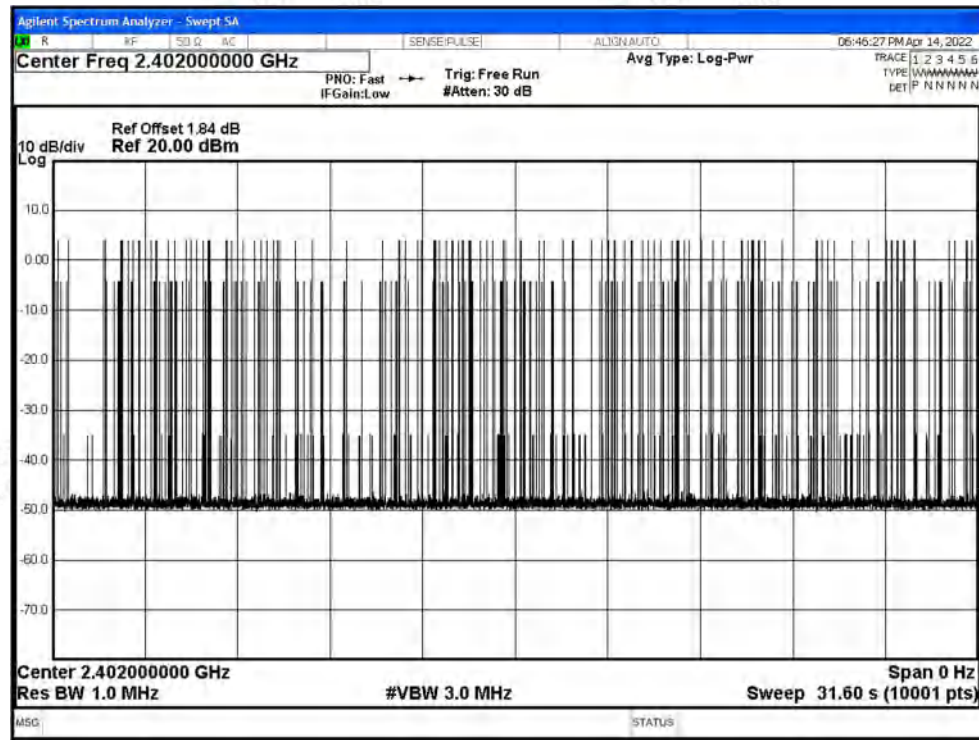


Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant1 One Burst

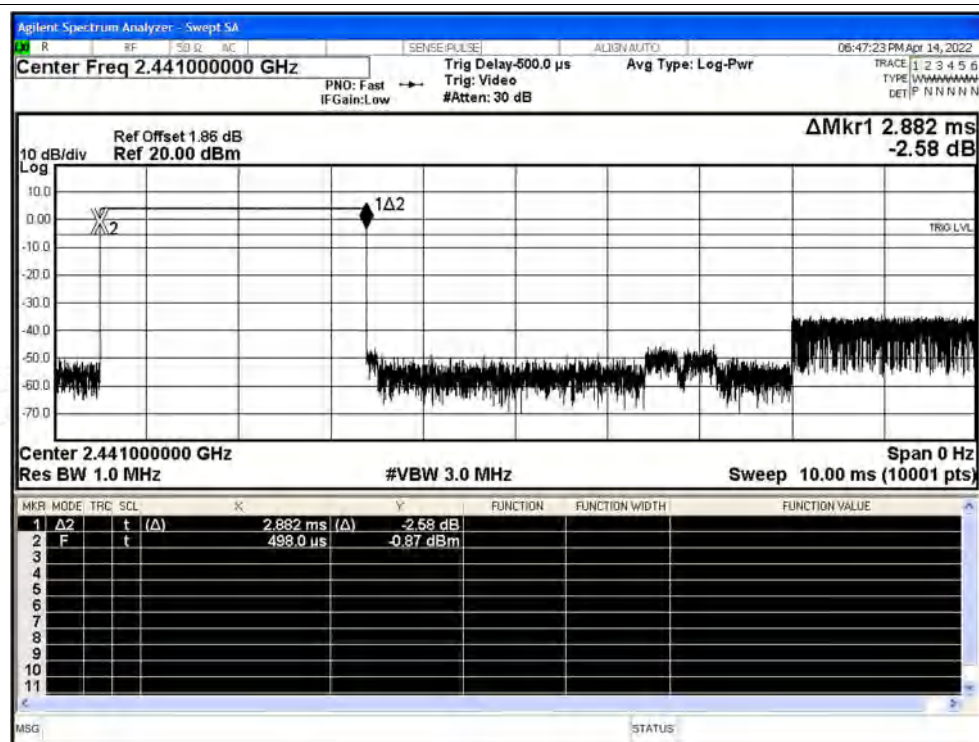


Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated

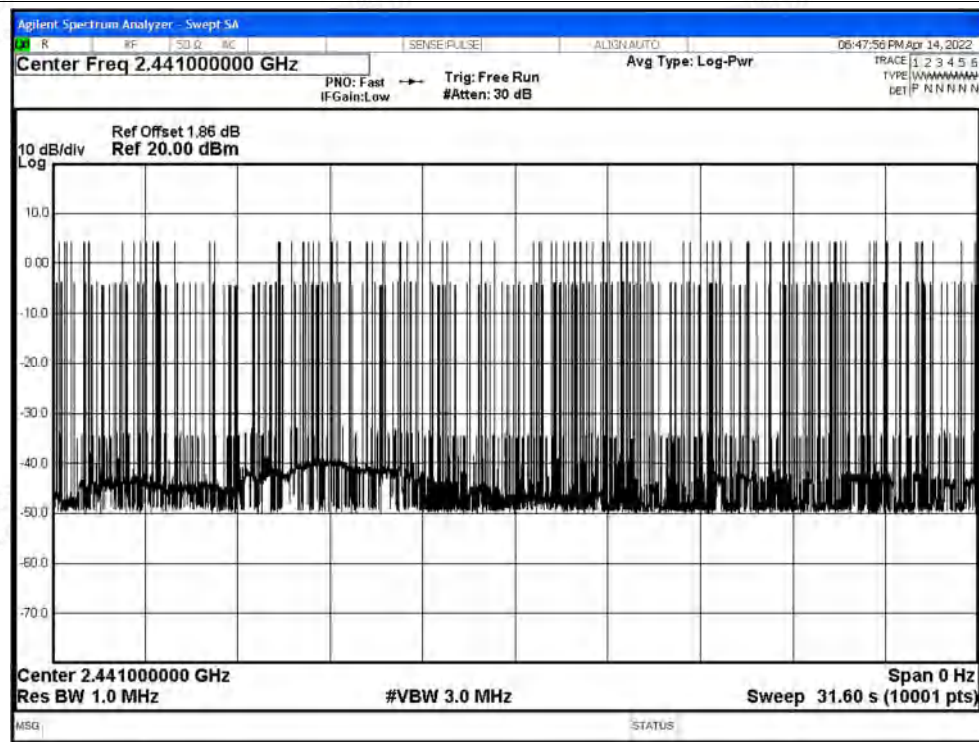




Dwell NVNT 1-DH5 2441MHz Ant1 One Burst

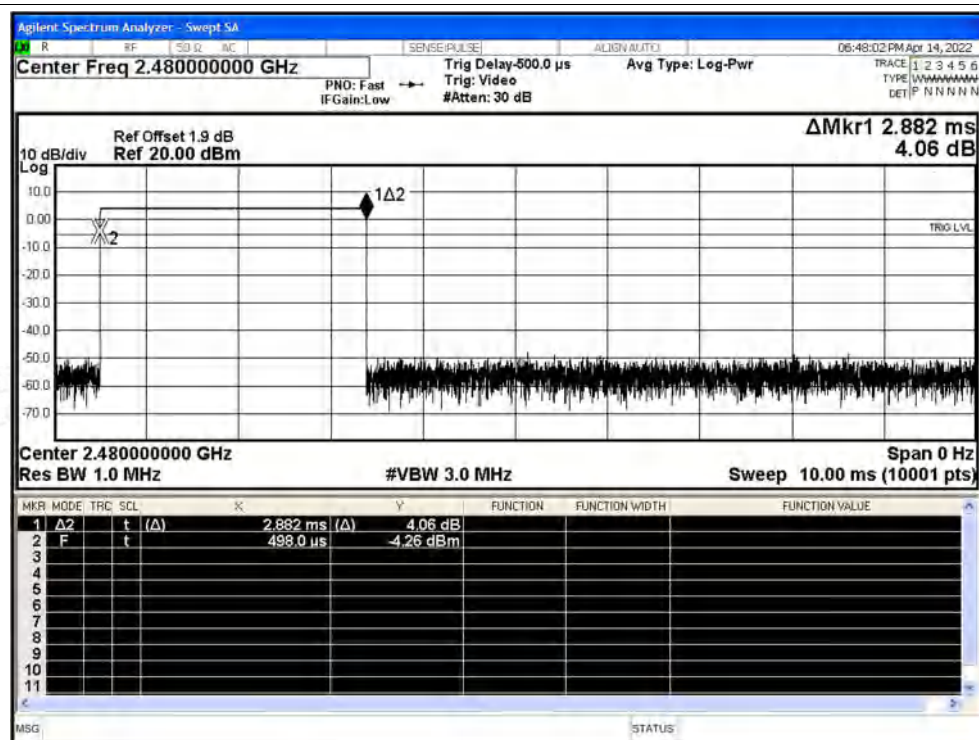


Dwell NVNT 1-DH5 2441MHz Ant1 Accumulated

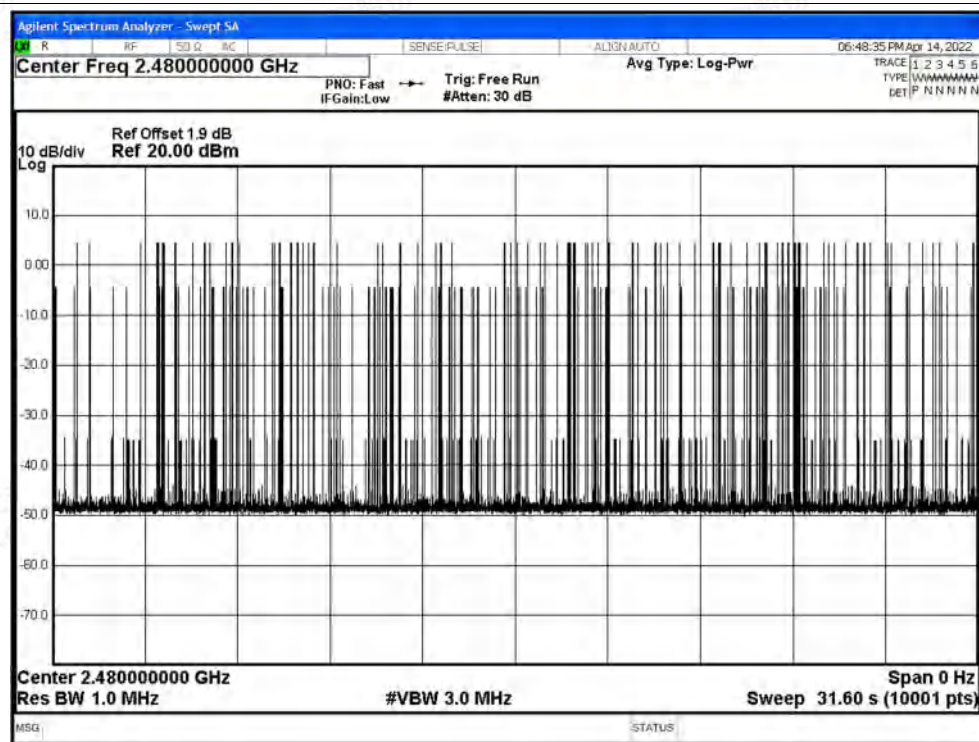




Dwell NVNT 1-DH5 2480MHz Ant1 One Burst

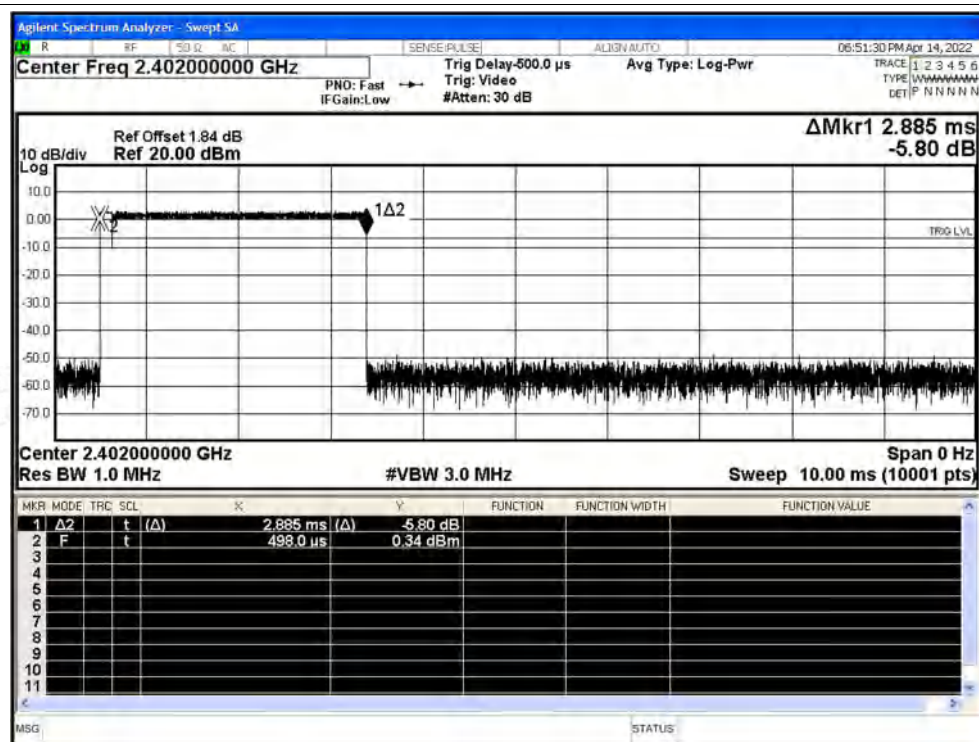


Dwell NVNT 1-DH5 2480MHz Ant1 Accumulated

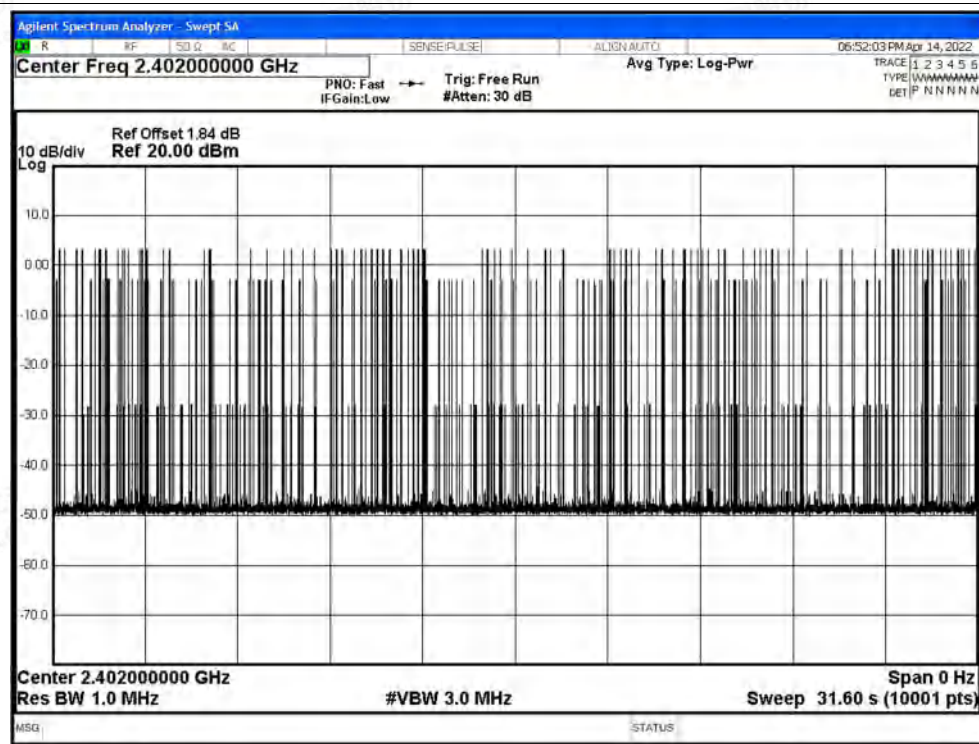




Dwell NVNT 2-DH5 2402MHz Ant1 One Burst

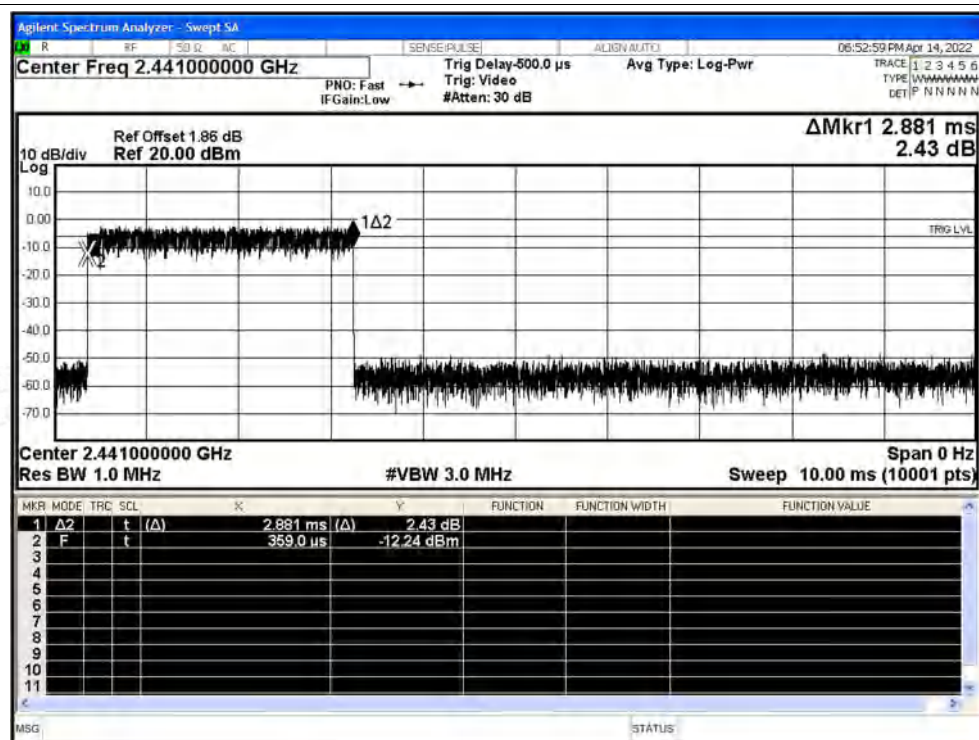


Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated

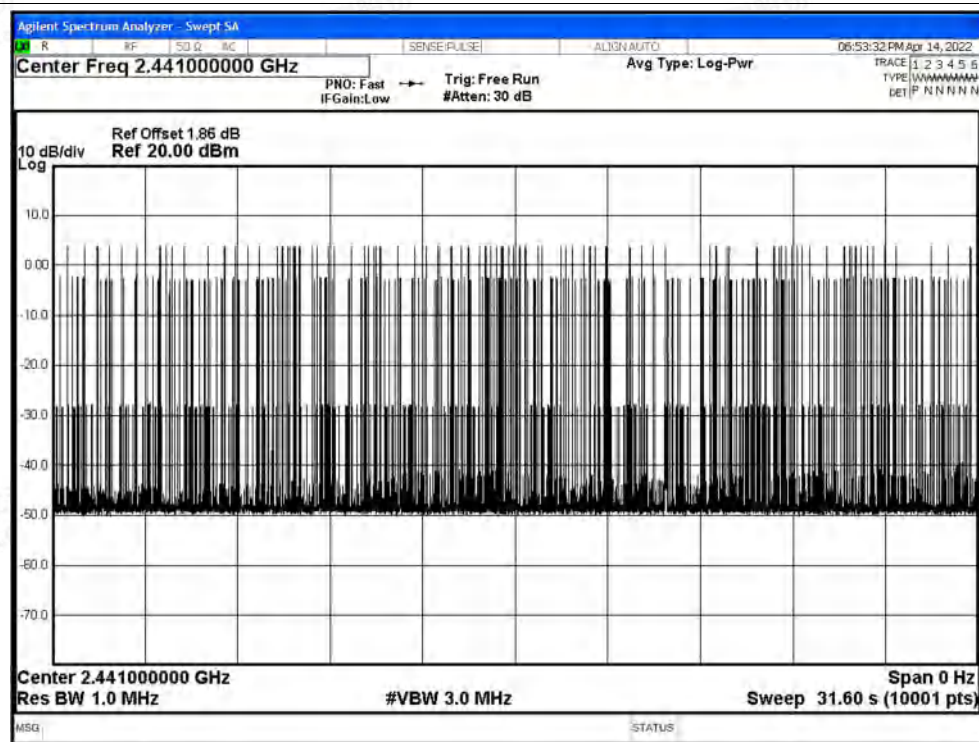




Dwell NVNT 2-DH5 2441MHz Ant1 One Burst

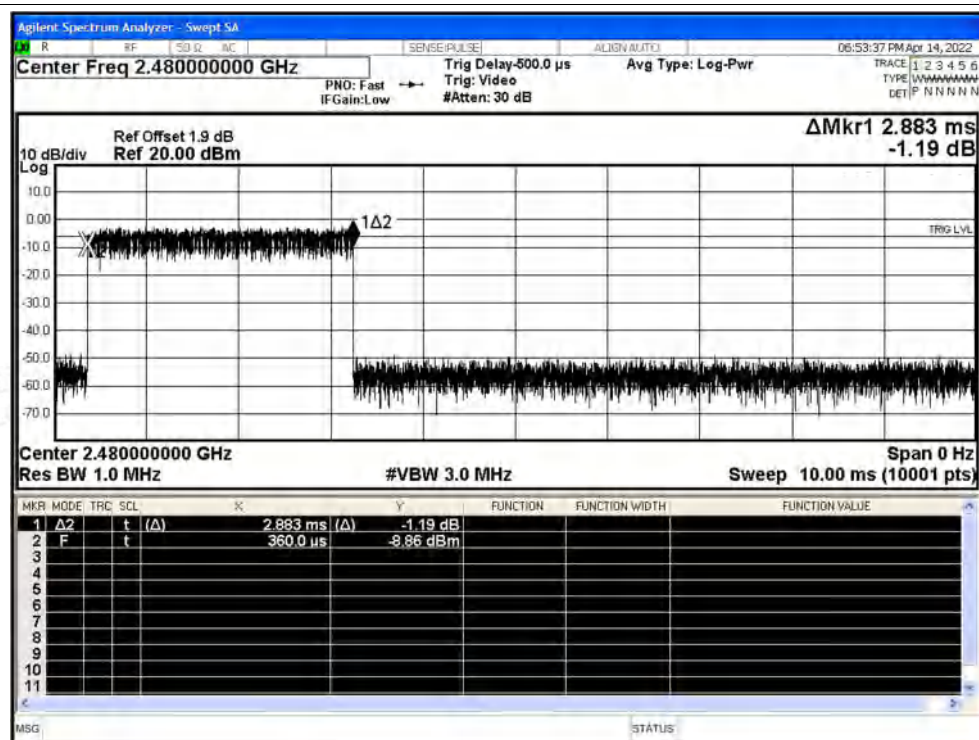


Dwell NVNT 2-DH5 2441MHz Ant1 Accumulated

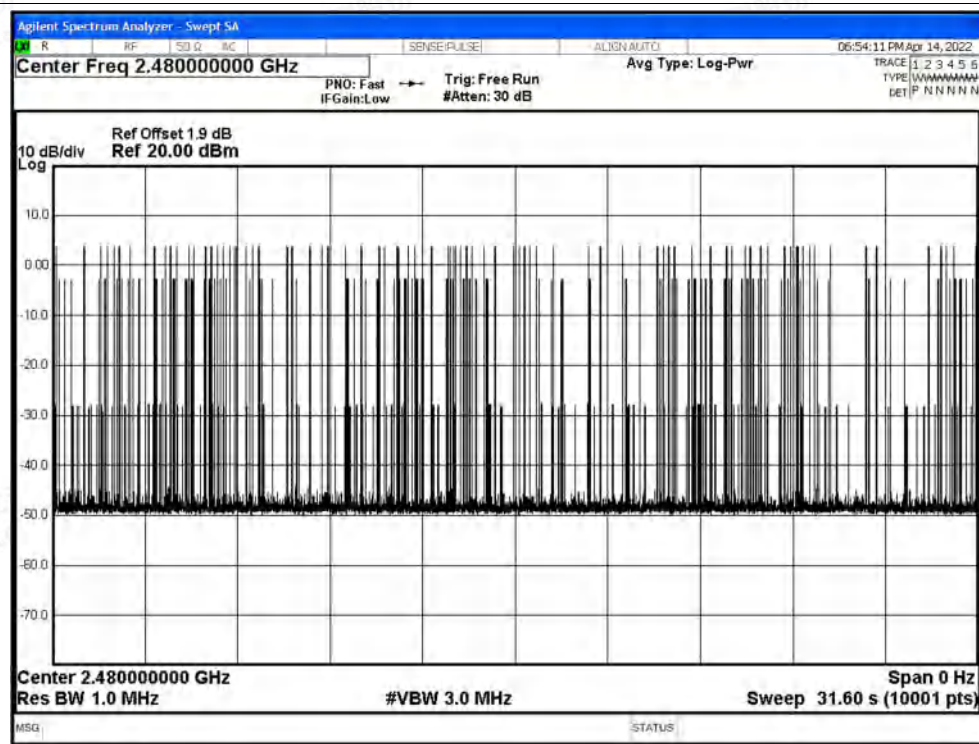




Dwell NVNT 2-DH5 2480MHz Ant1 One Burst

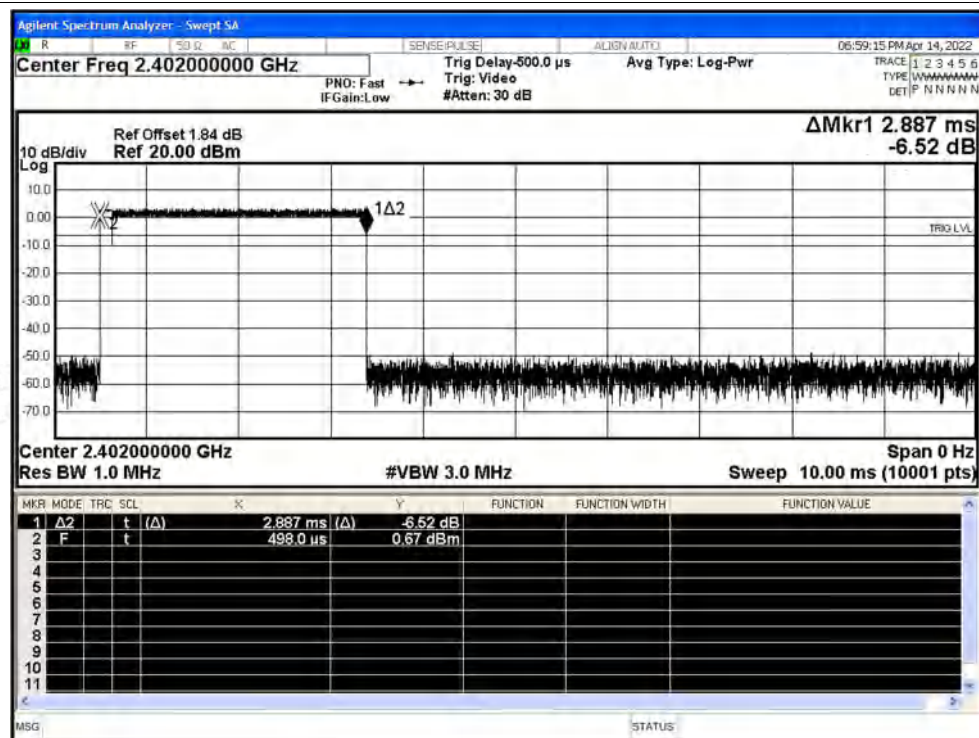


Dwell NVNT 2-DH5 2480MHz Ant1 Accumulated

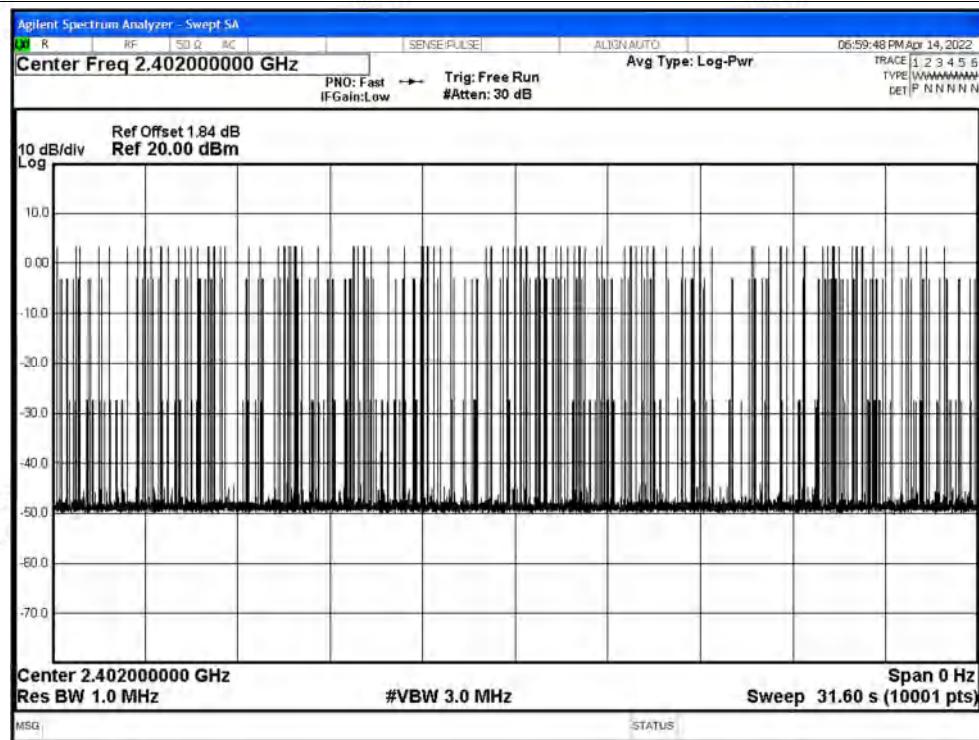




Dwell NVNT 3-DH5 2402MHz Ant1 One Burst

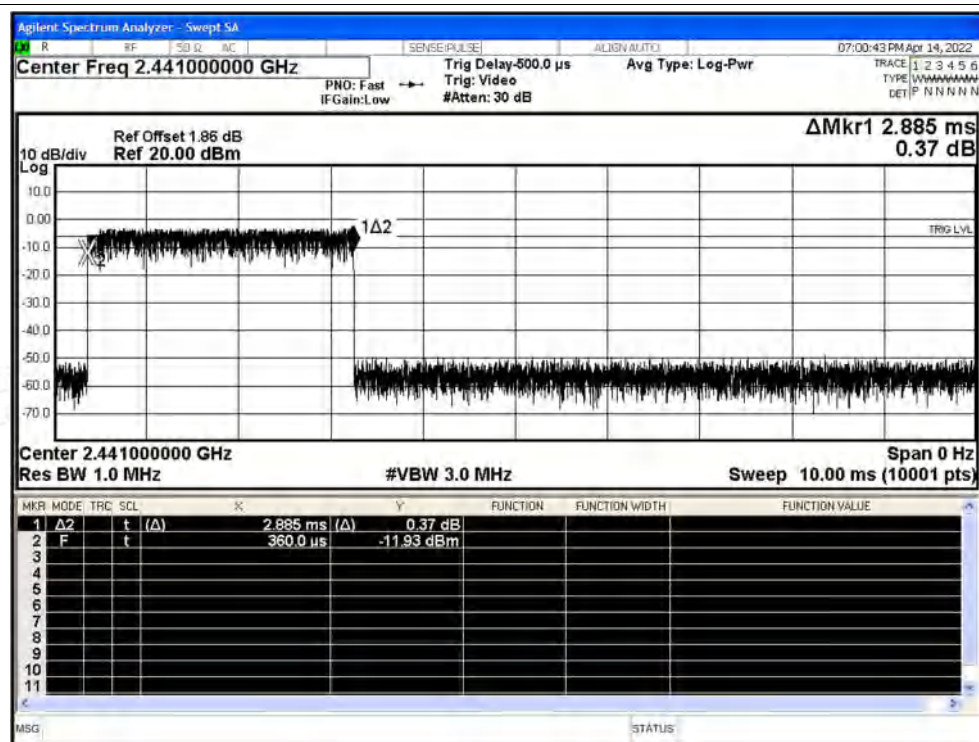


Dwell NVNT 3-DH5 2402MHz Ant1 Accumulated

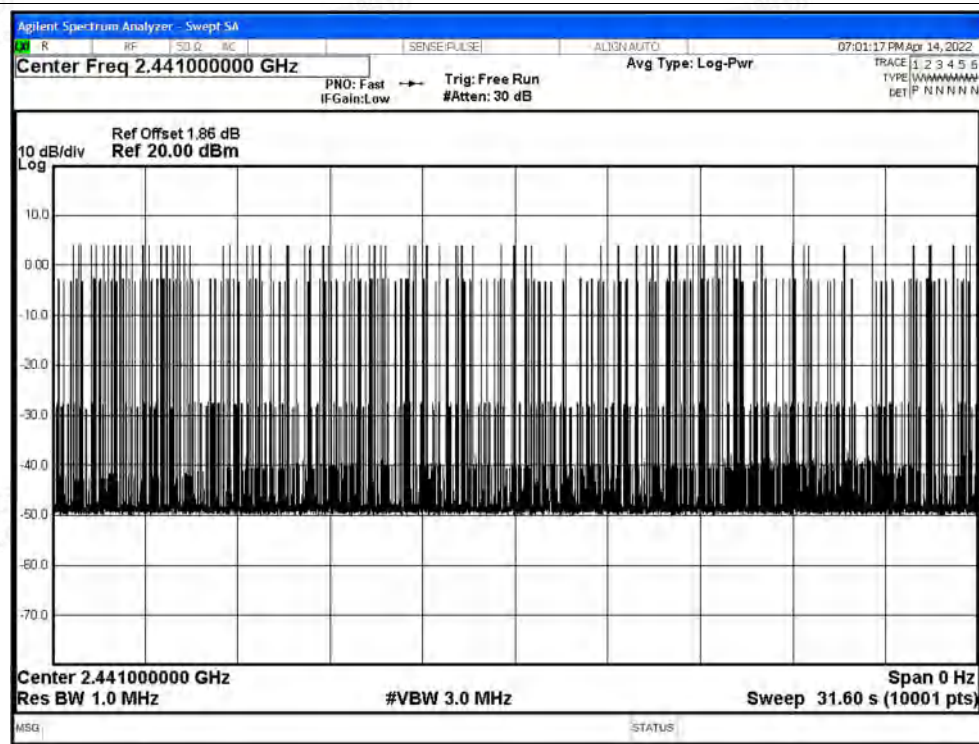




Dwell NVNT 3-DH5 2441MHz Ant1 One Burst

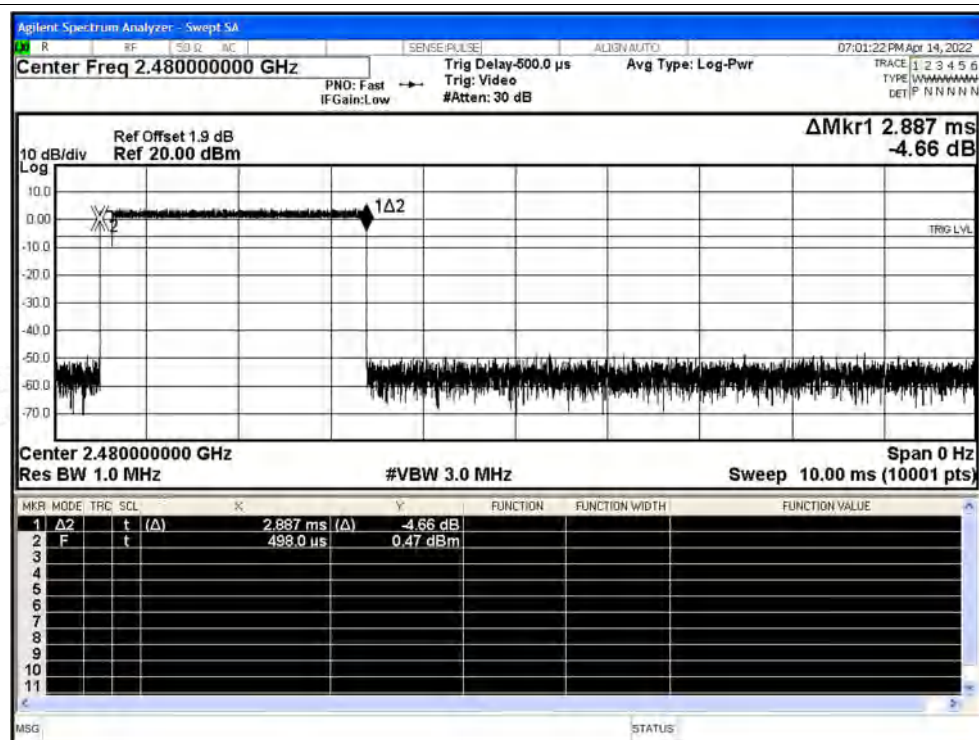


Dwell NVNT 3-DH5 2441MHz Ant1 Accumulated

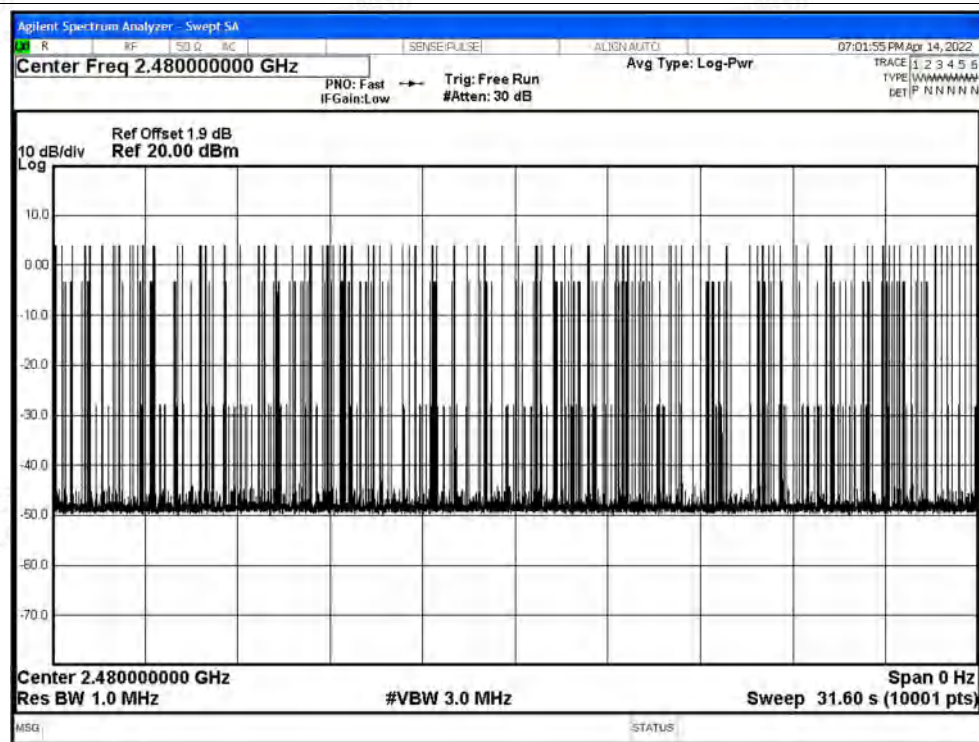




Dwell NVNT 3-DH5 2480MHz Ant1 One Burst



Dwell NVNT 3-DH5 2480MHz Ant1 Accumulated





A.5 Number of Hopping Channel

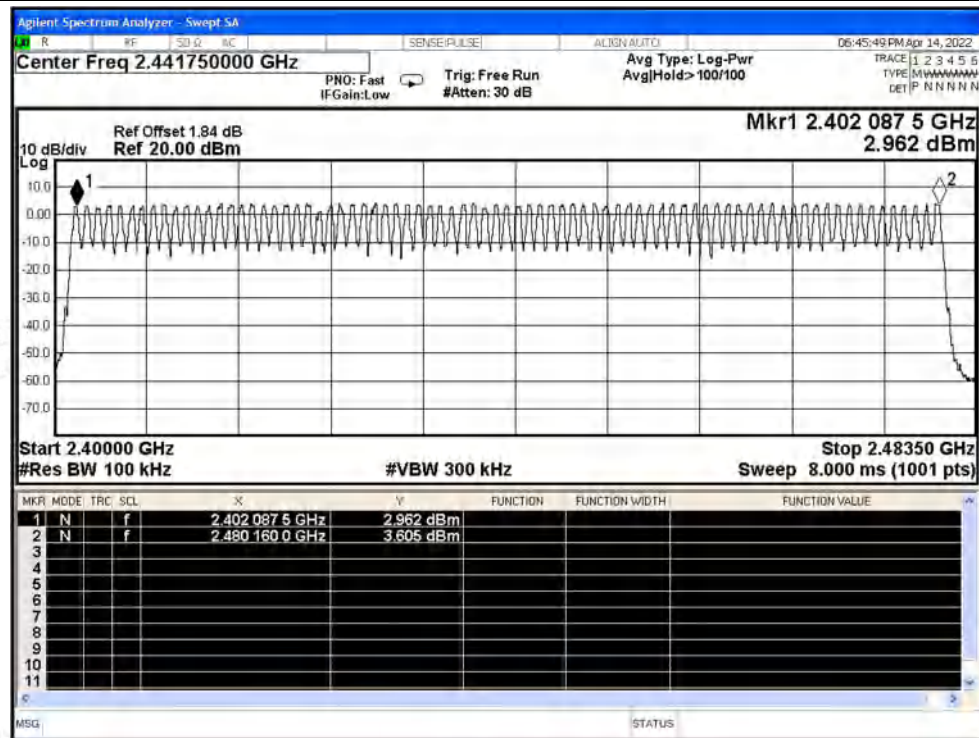
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH5	Ant1	79	15	Pass
NVNT	2-DH5	Ant1	79	15	Pass
NVNT	3-DH5	Ant1	79	15	Pass



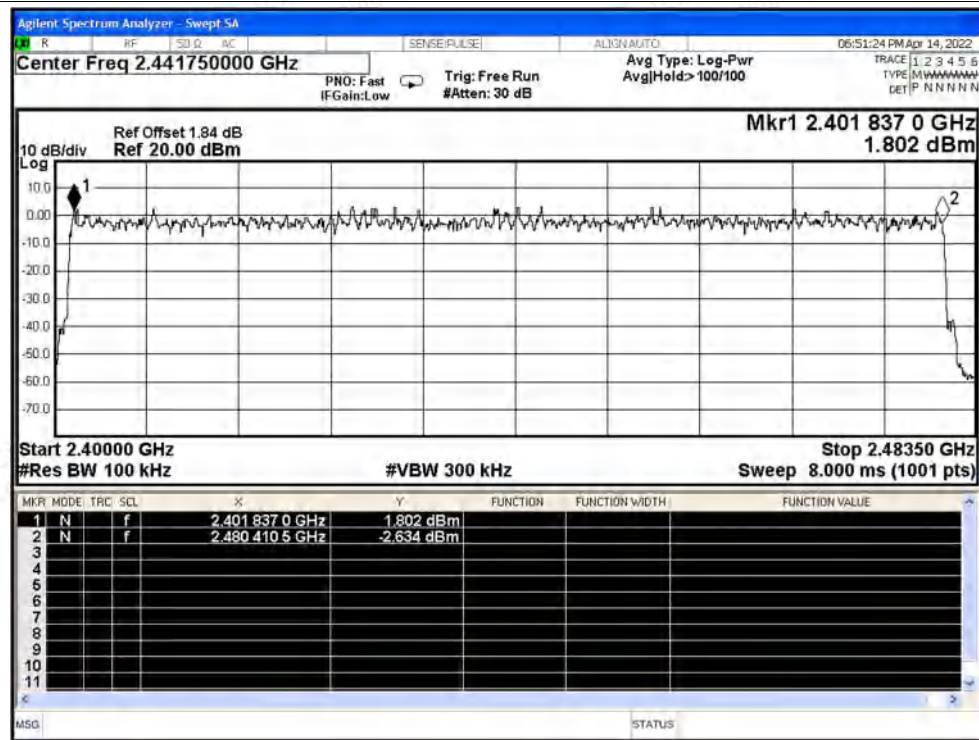


Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant1

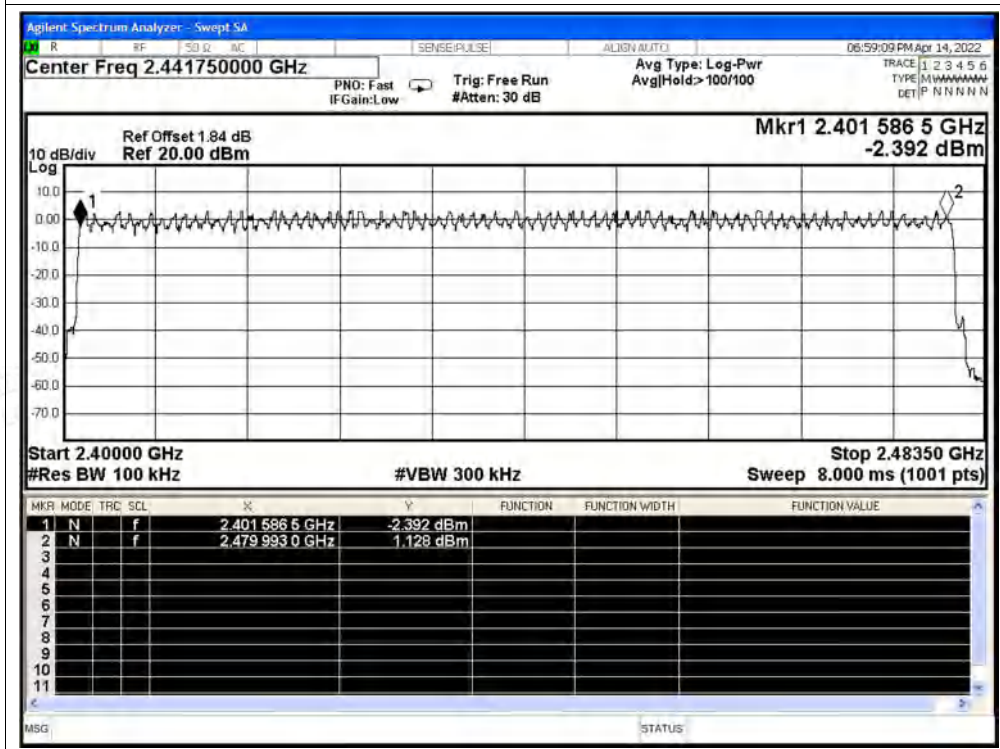


Hopping No. NVNT 2-DH5 2402MHz Ant1





Hopping No. NVNT 3-DH5 2402MHz Ant1





A.6 Band Edge

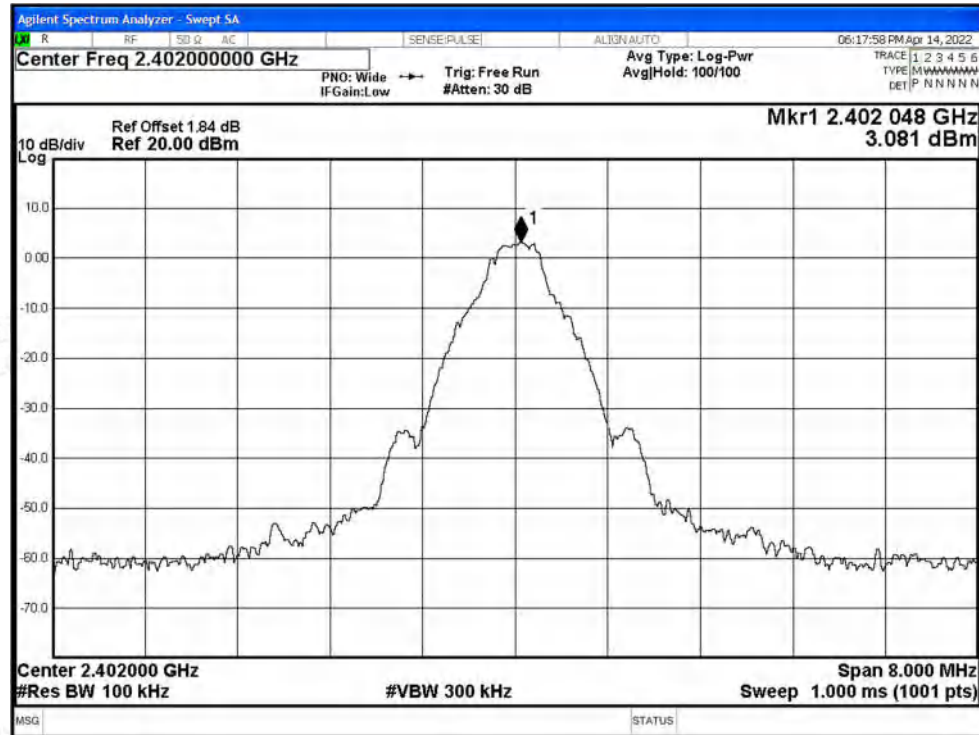
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-56.84	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-60.71	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-55.24	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-59.96	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-55.26	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-57.91	-20	Pass



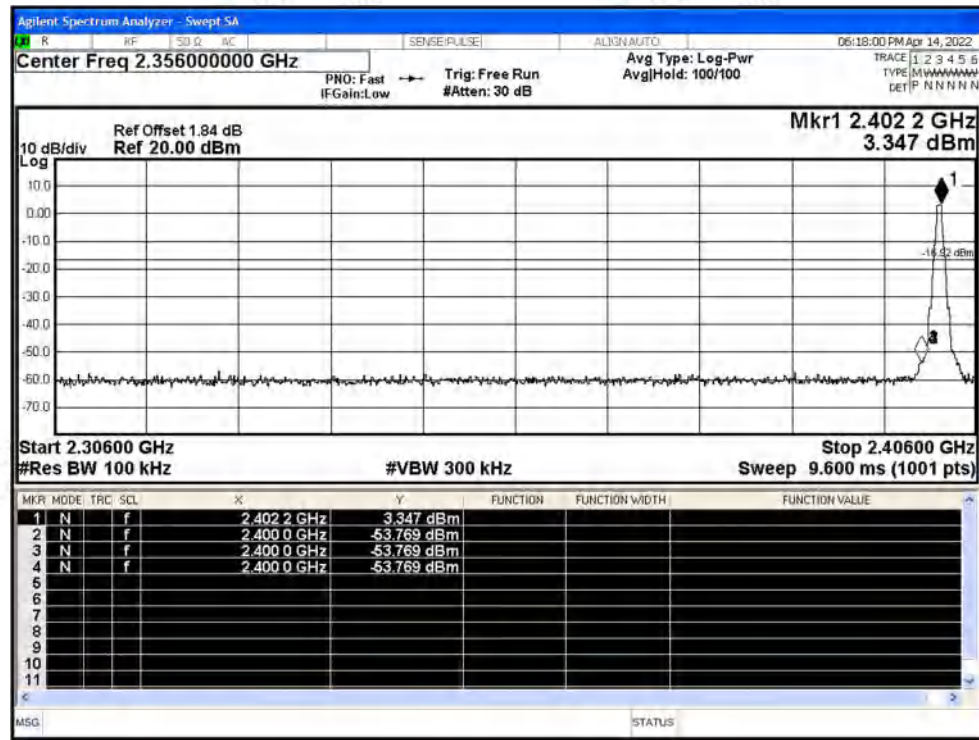


Test Graphs

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

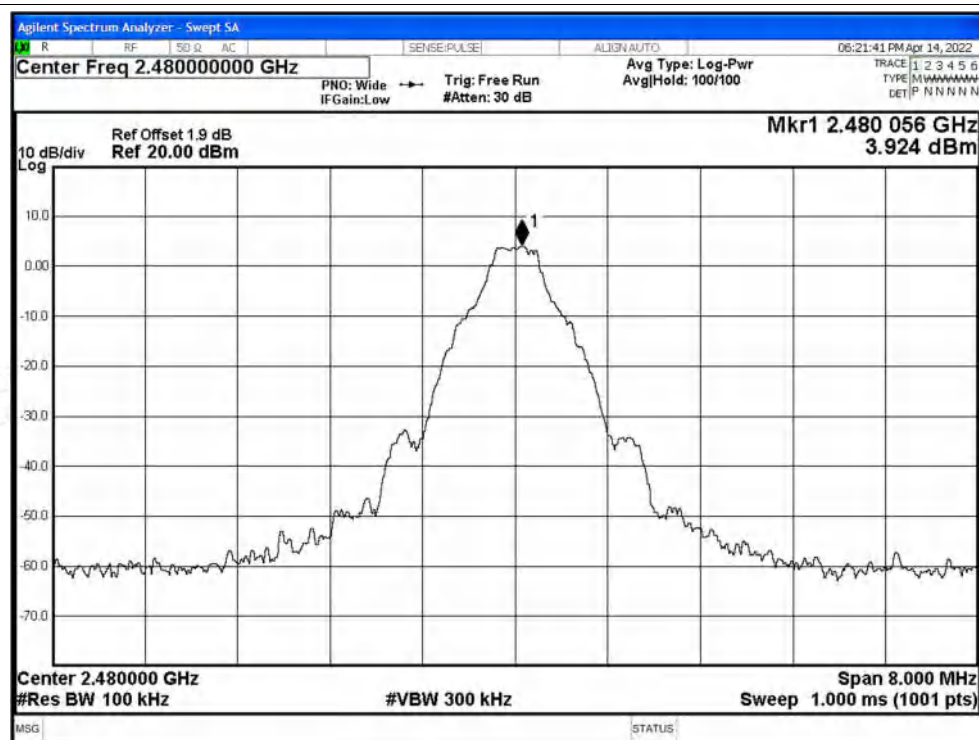


Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission

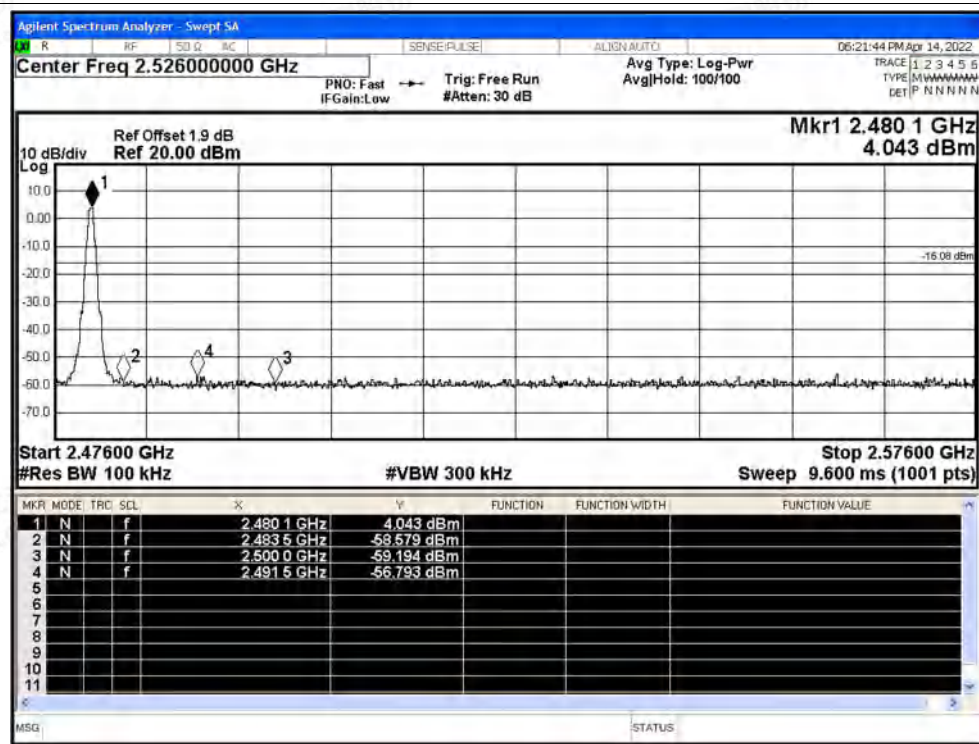




Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref

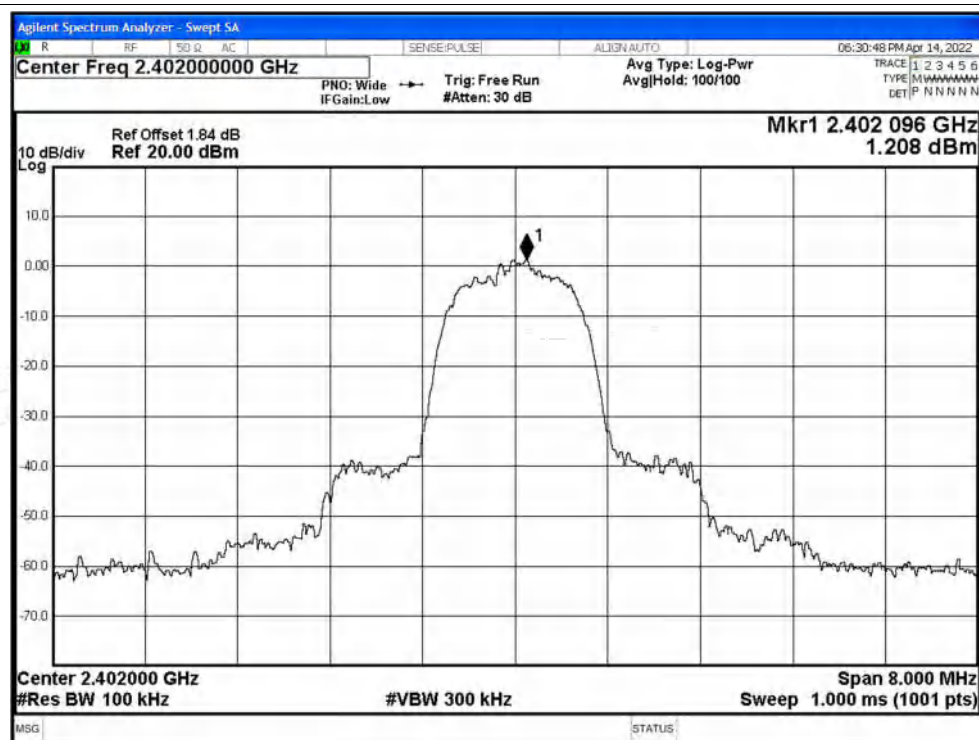


Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission

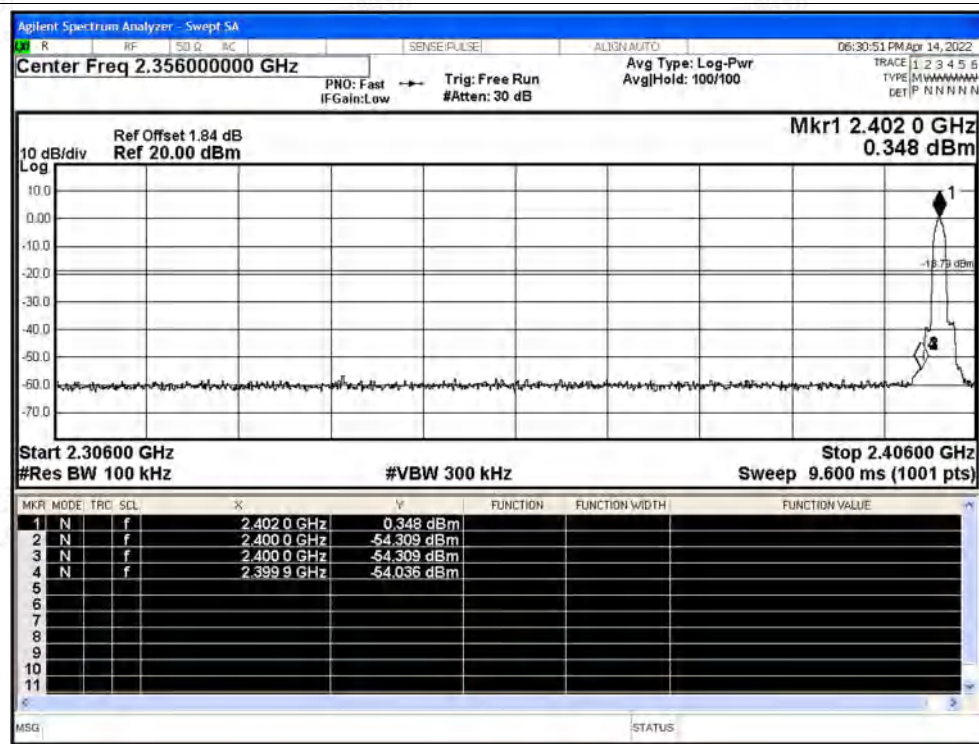




Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref

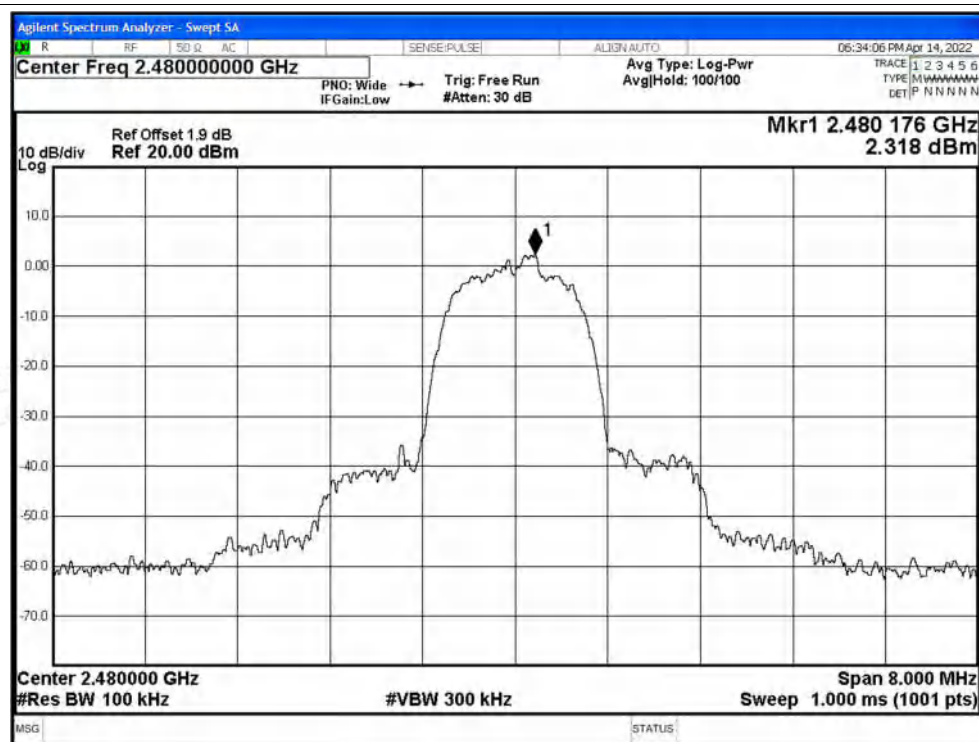


Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission

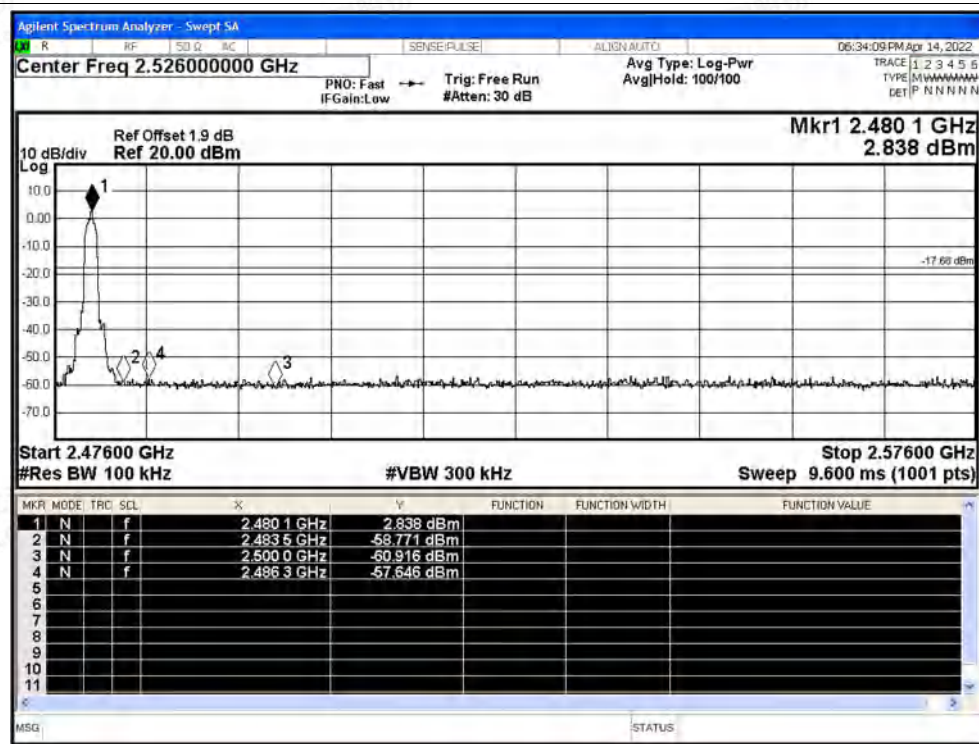




Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref



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

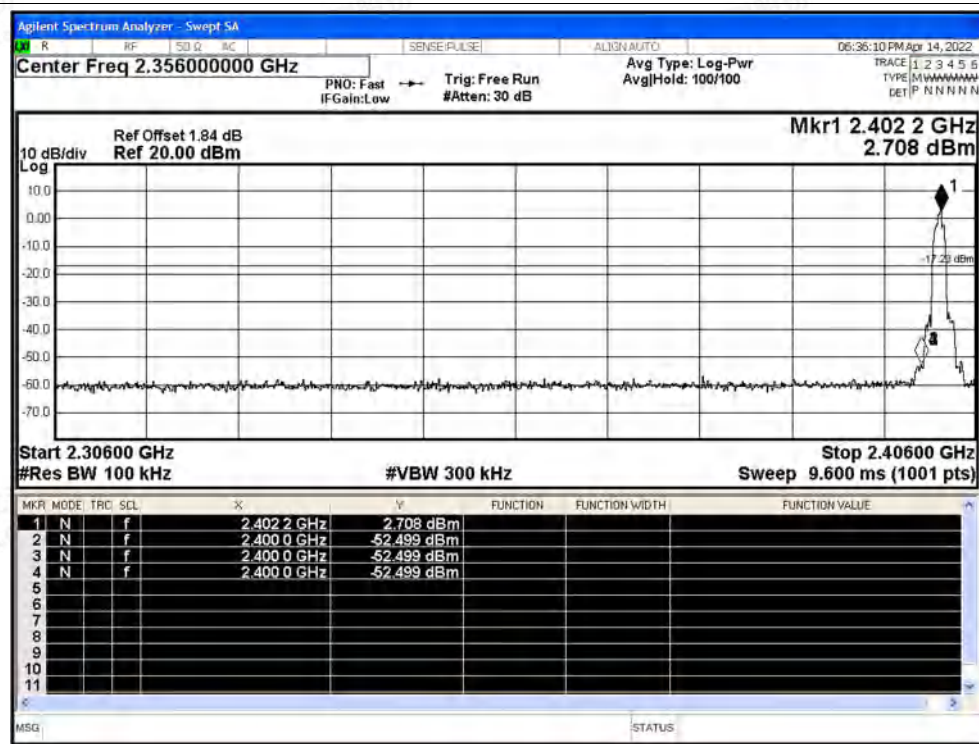




Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Ref

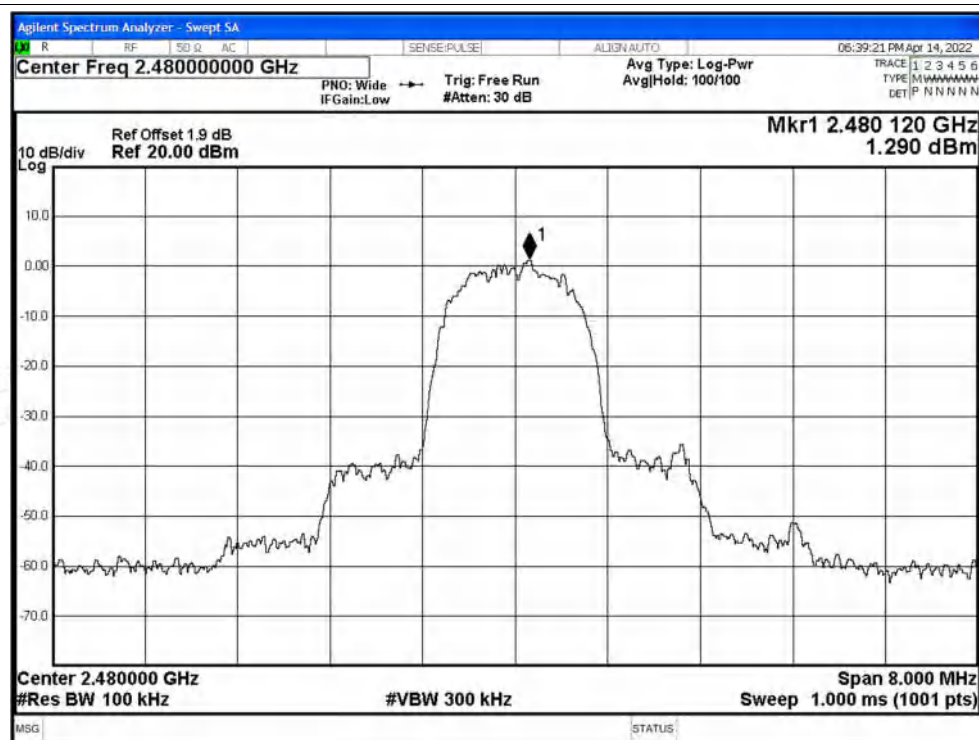


Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Emission

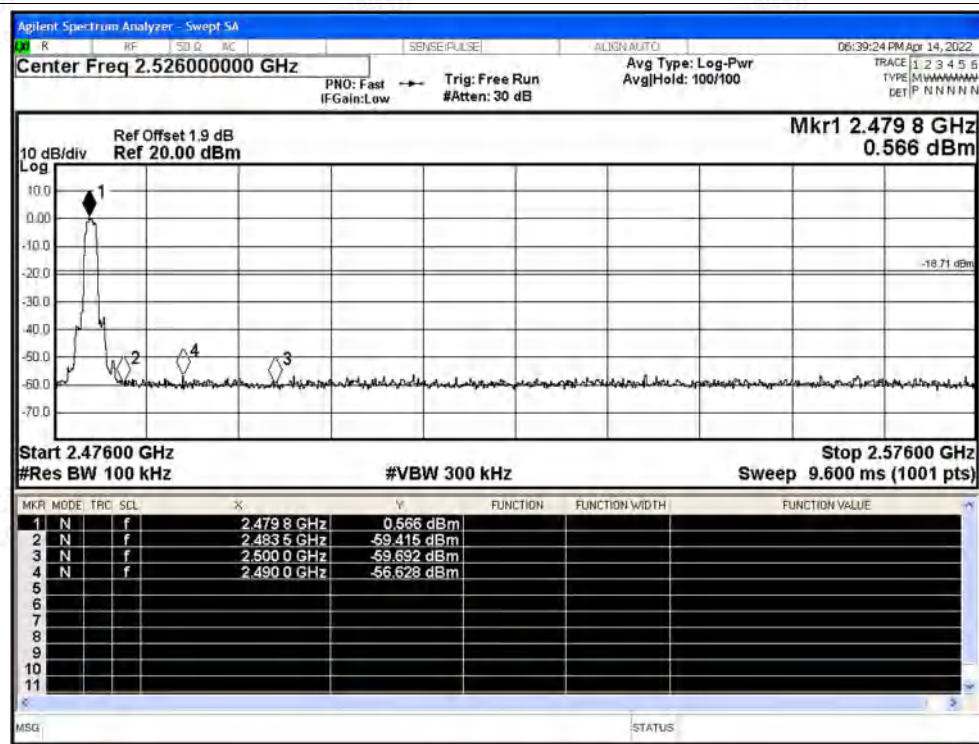




Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Ref



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





(Hopping)

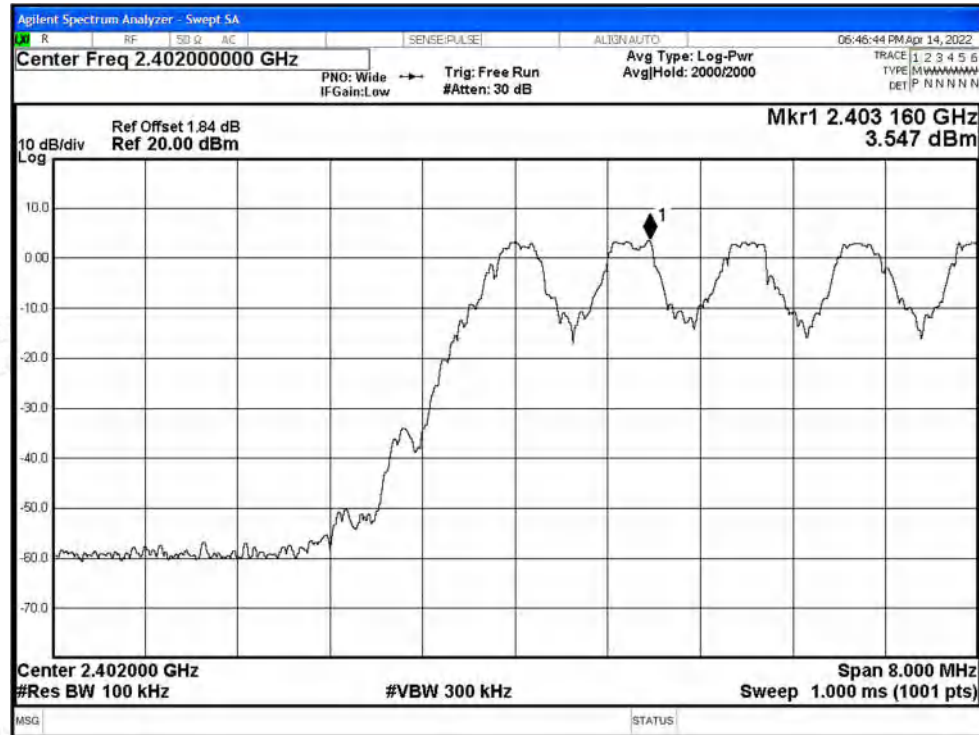
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-60.23	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-60.1	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-58.84	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-57.03	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-58.68	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-58.85	-20	Pass



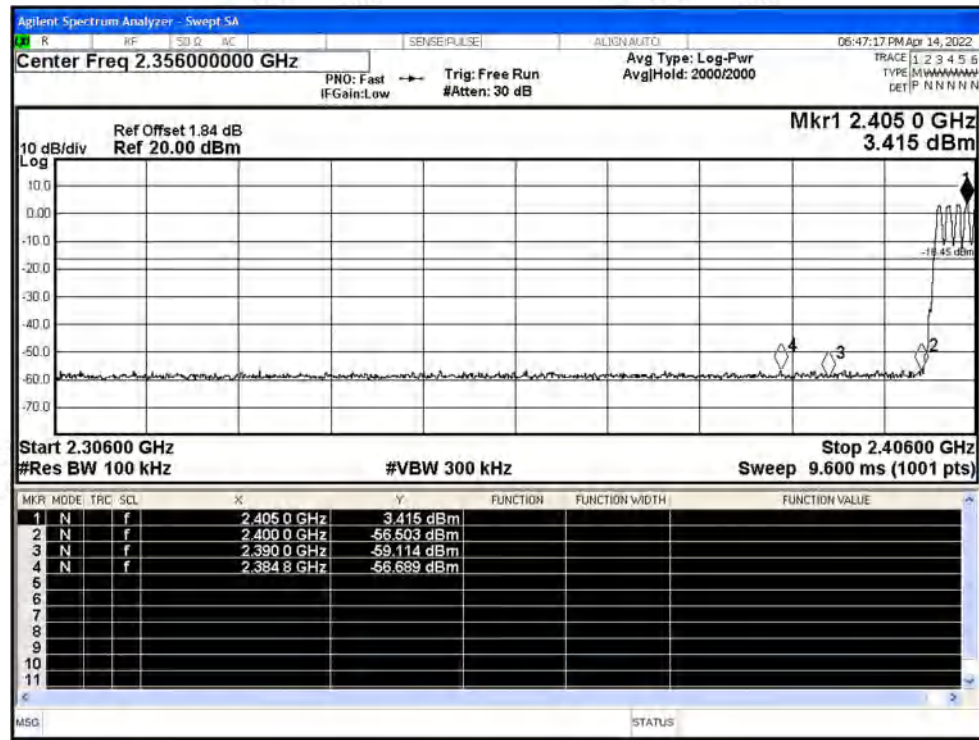


Test Graphs

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

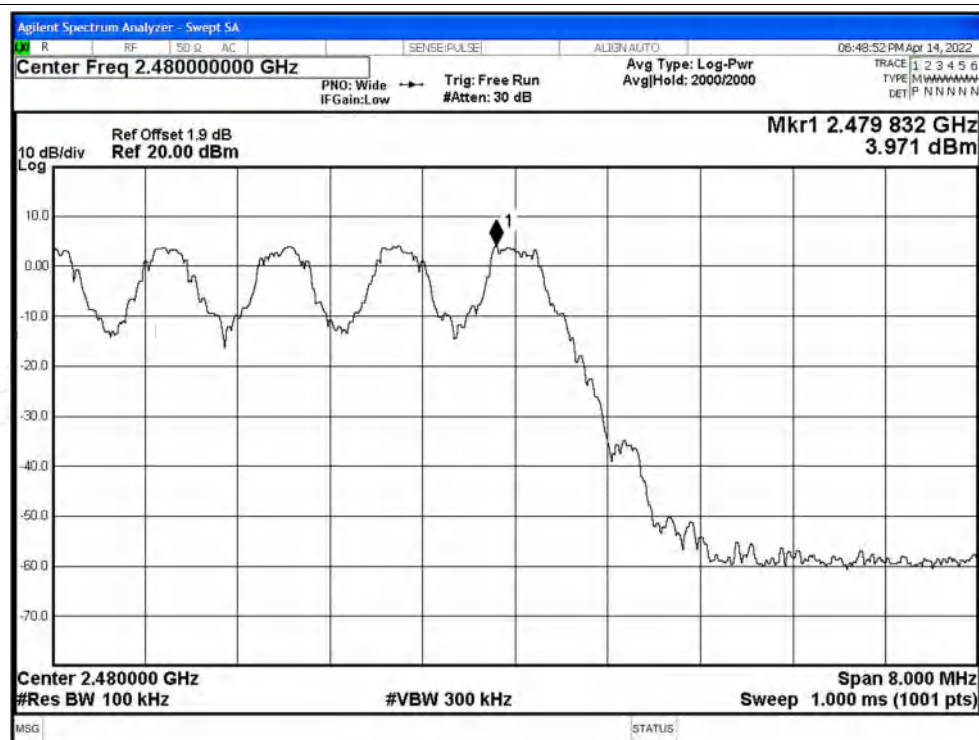


Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission

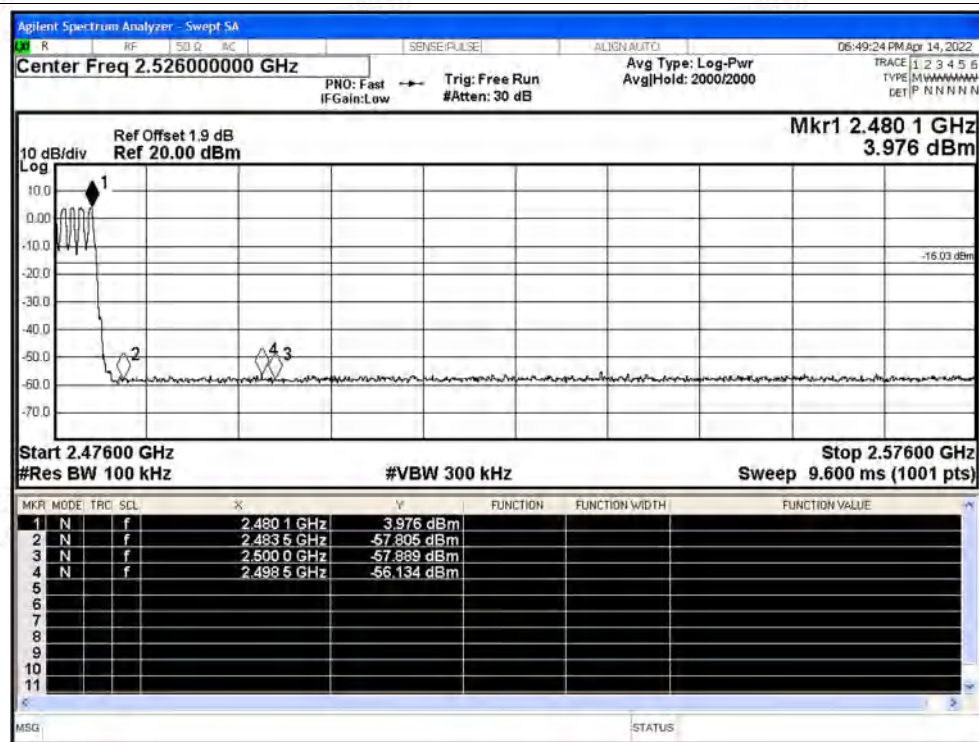




Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Ref



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

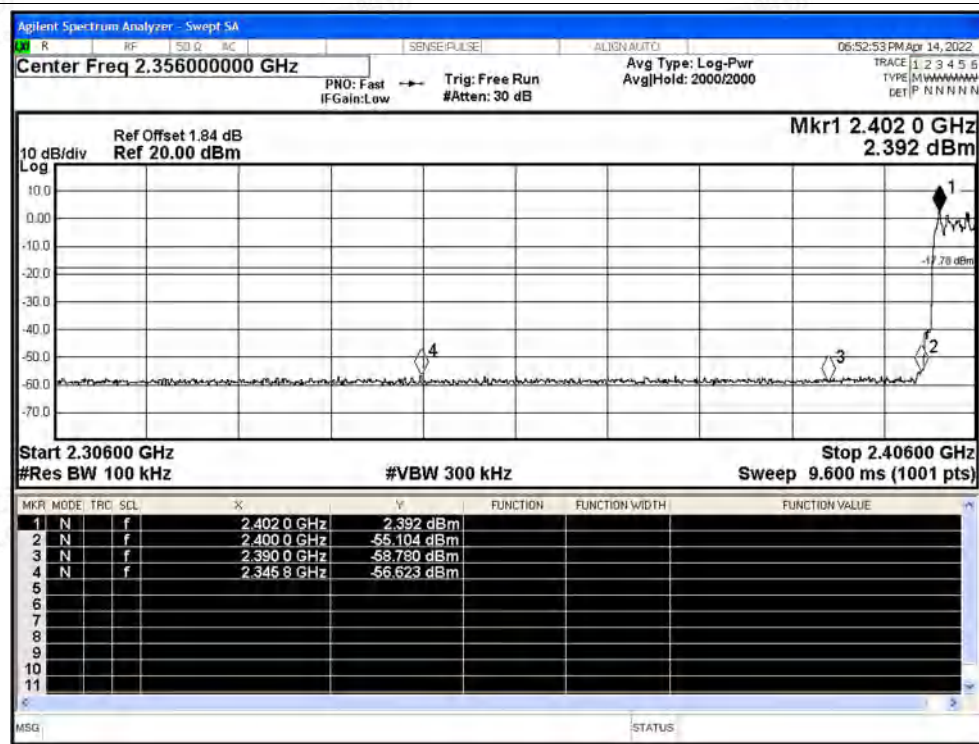




Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Ref



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



Shenzhen LCS Compliance Testing Laboratory Ltd.

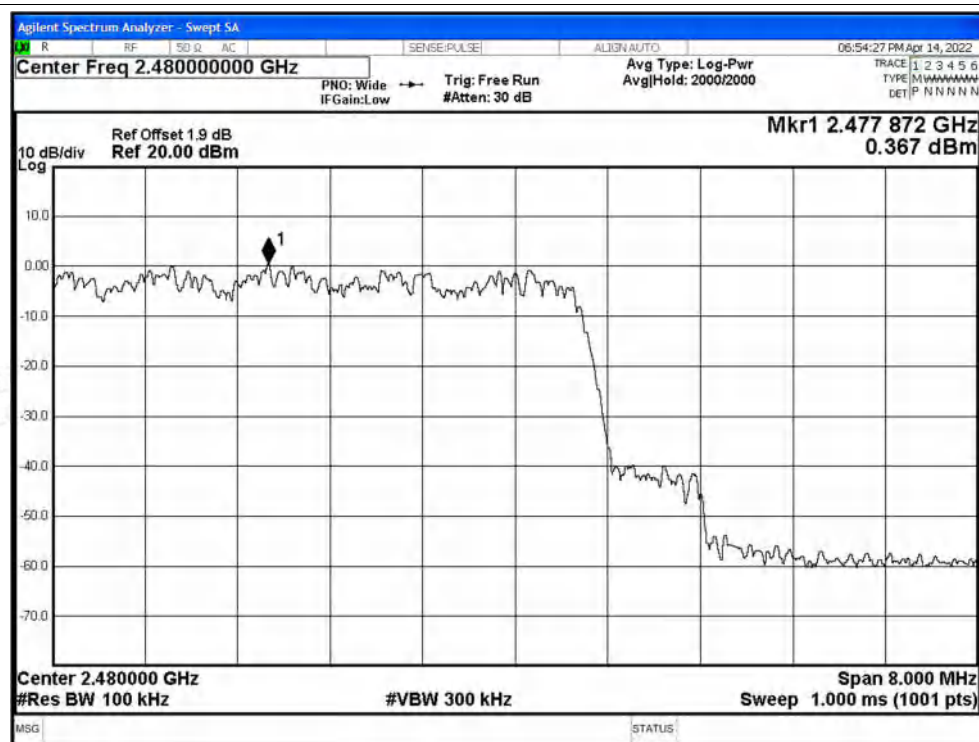
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

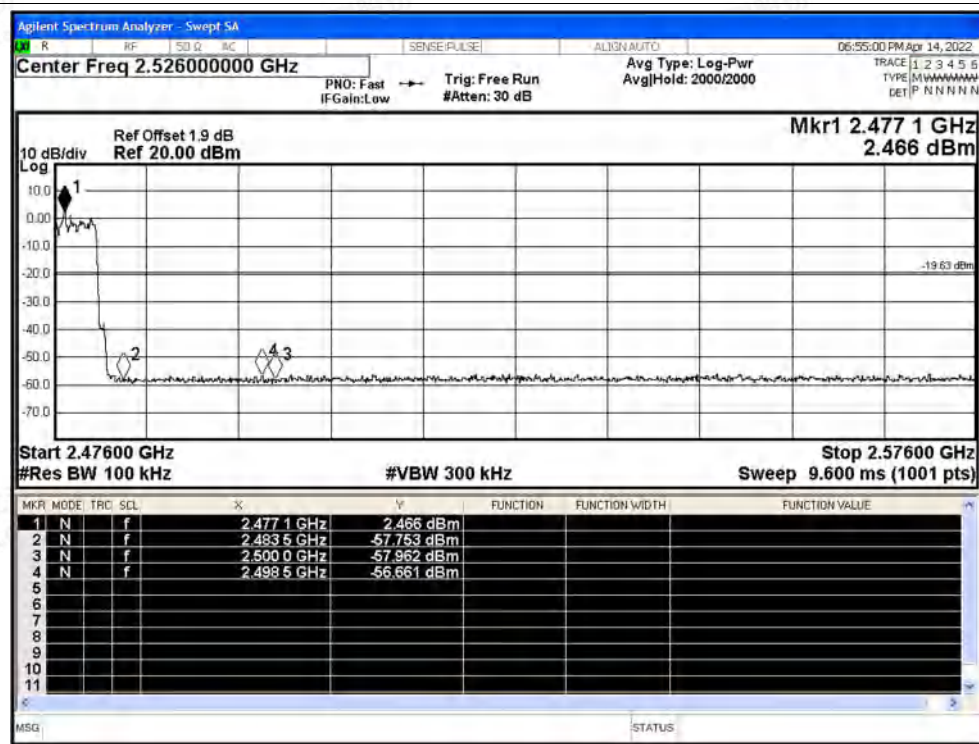
Scan code to check authenticity



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

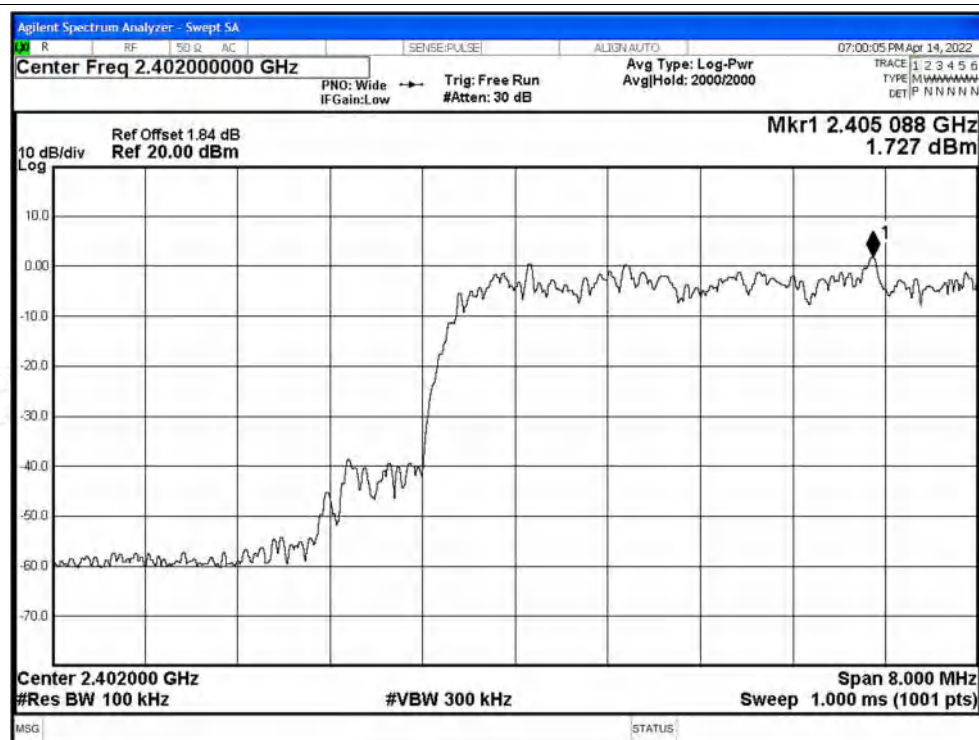


Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Emission

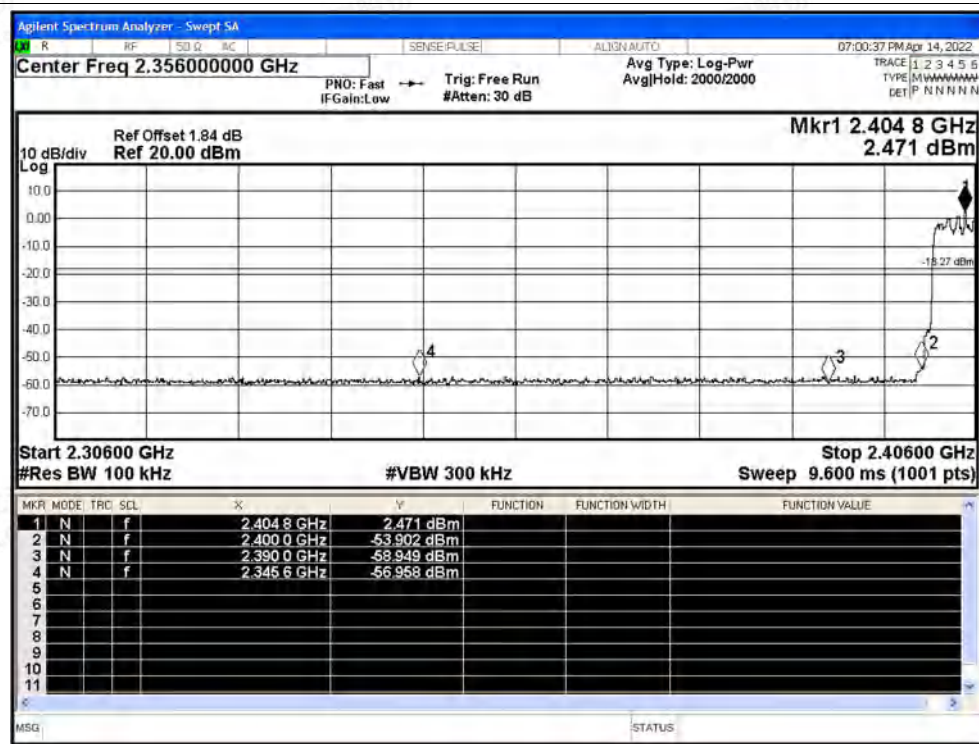




Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Ref

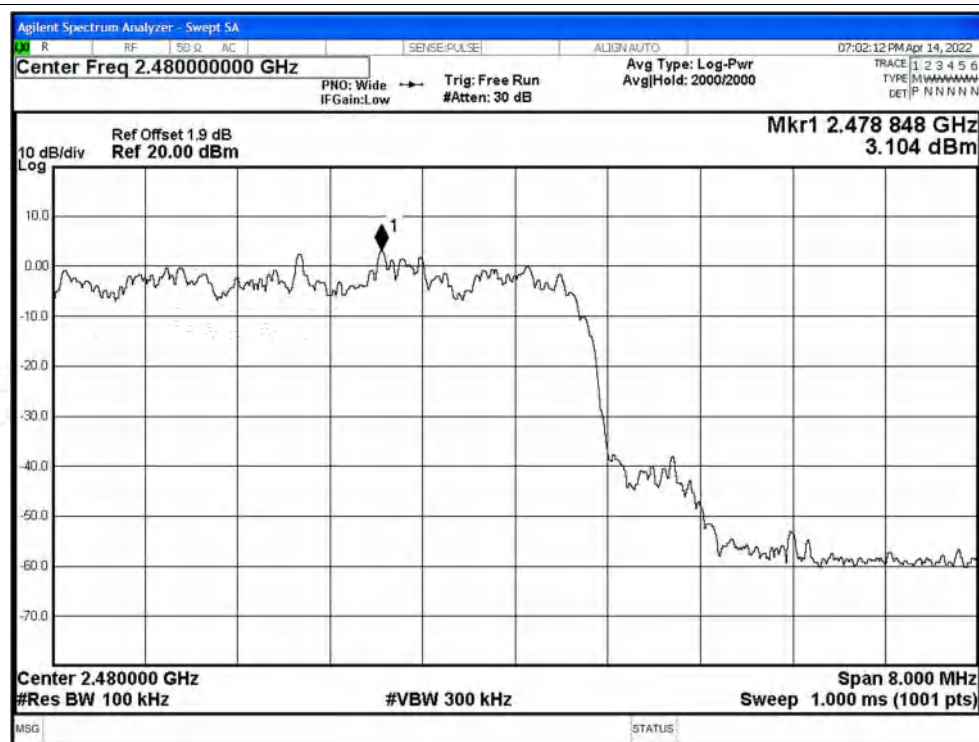


Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Emission

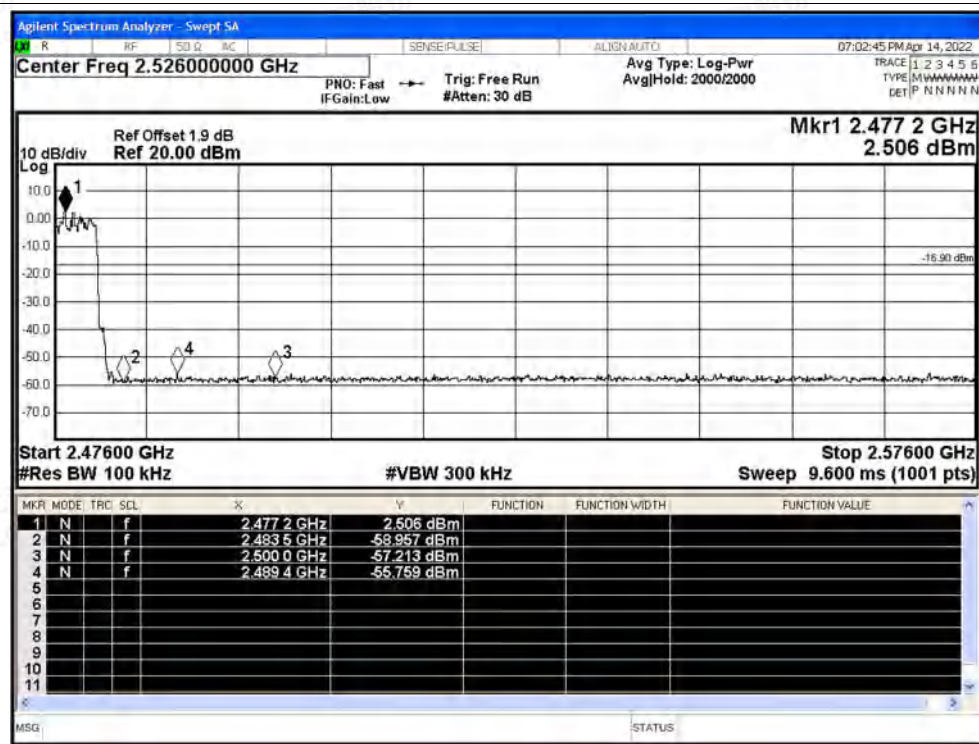




Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Ref



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





A.7 Conducted RF Spurious Emission

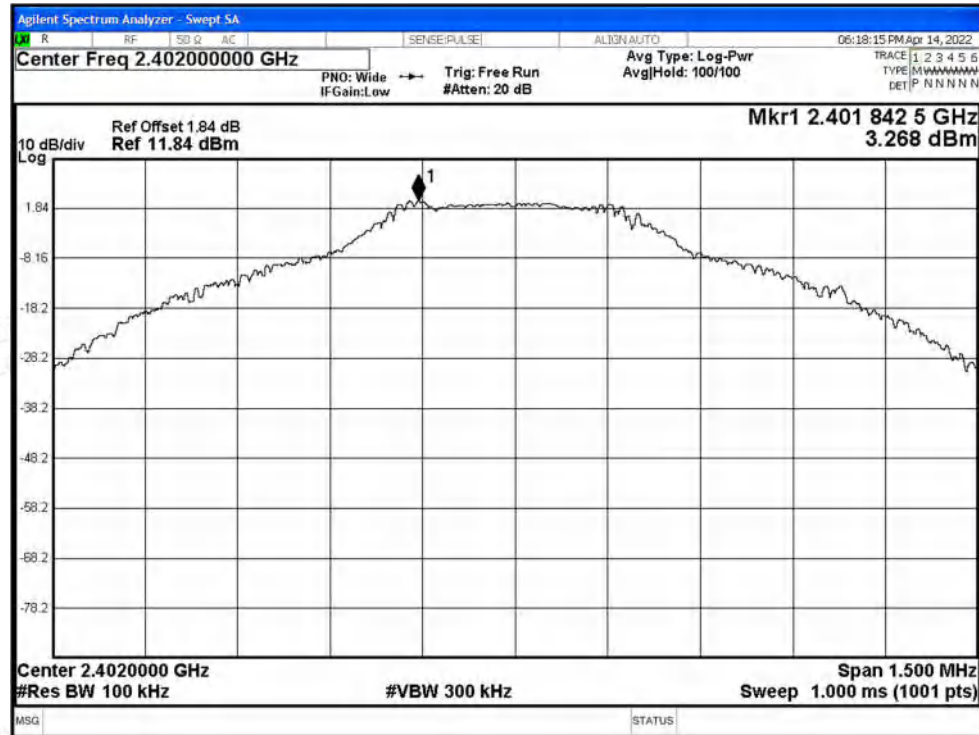
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-59.35	-20	Pass
NVNT	1-DH5	2441	Ant1	-60.56	-20	Pass
NVNT	1-DH5	2480	Ant1	-59.09	-20	Pass
NVNT	2-DH5	2402	Ant1	-57.66	-20	Pass
NVNT	2-DH5	2441	Ant1	-59.26	-20	Pass
NVNT	2-DH5	2480	Ant1	-57.06	-20	Pass
NVNT	3-DH5	2402	Ant1	-59.08	-20	Pass
NVNT	3-DH5	2441	Ant1	-58.8	-20	Pass
NVNT	3-DH5	2480	Ant1	-58.47	-20	Pass



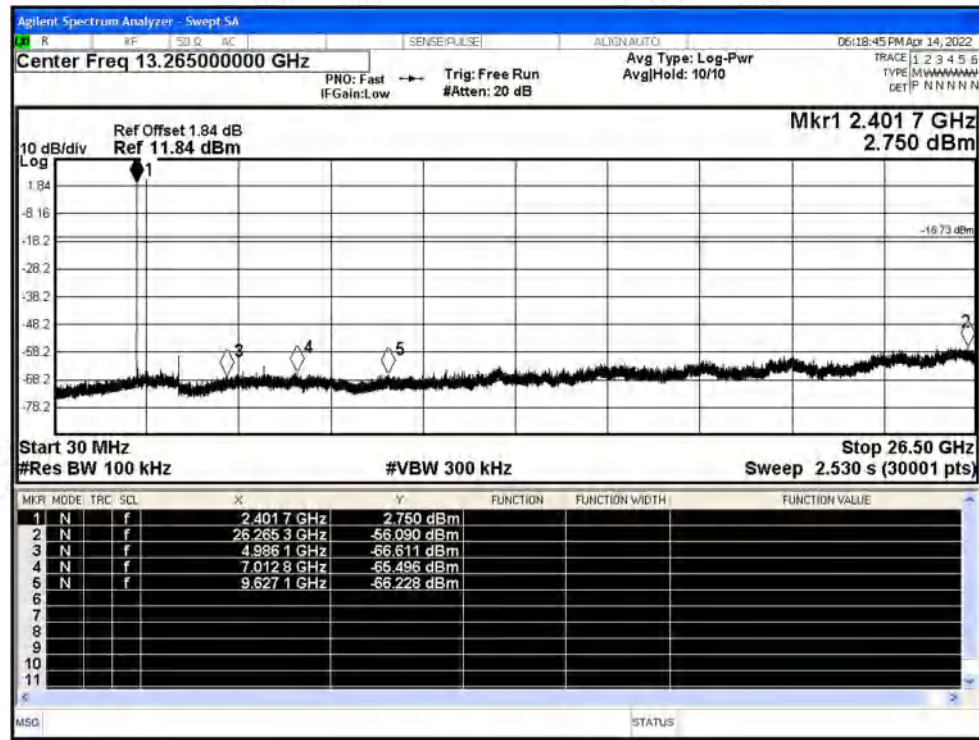


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref

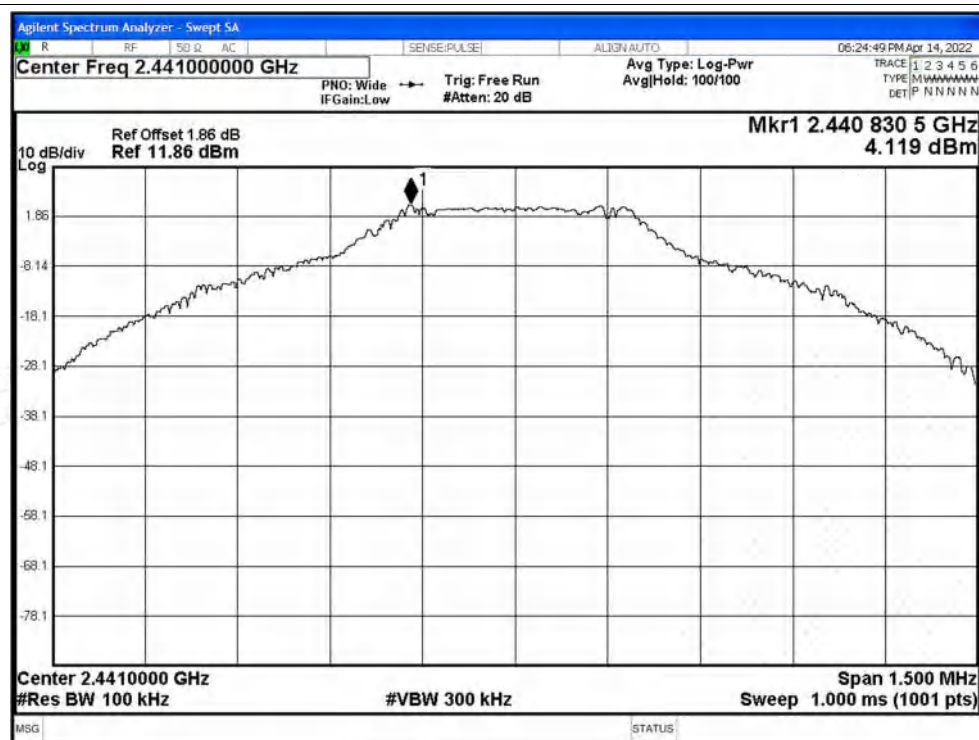


Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission

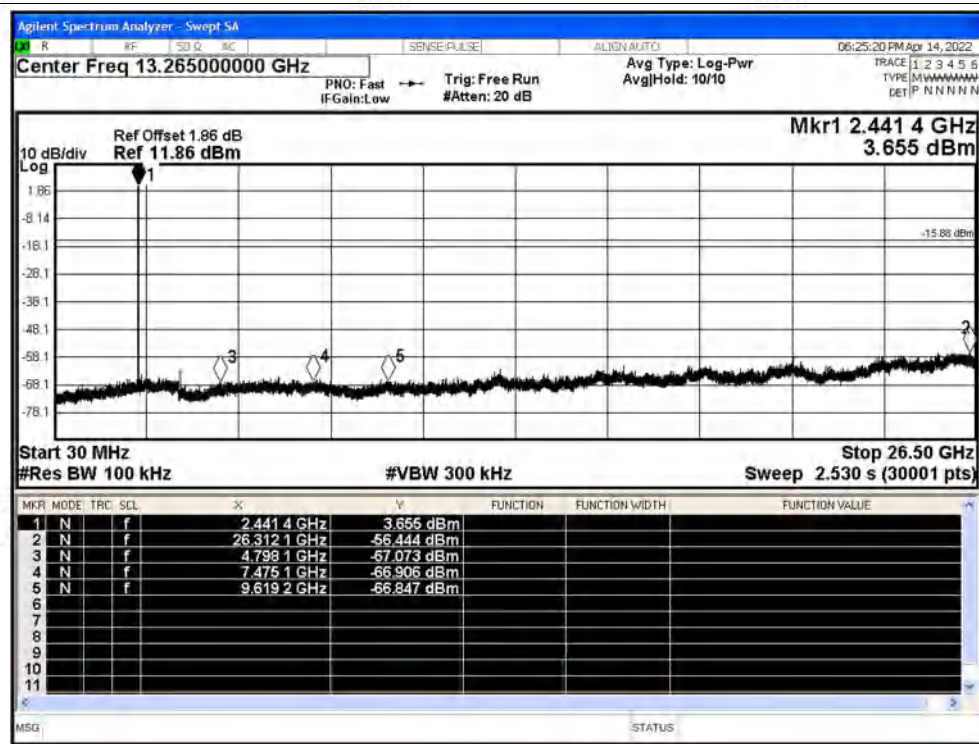




Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

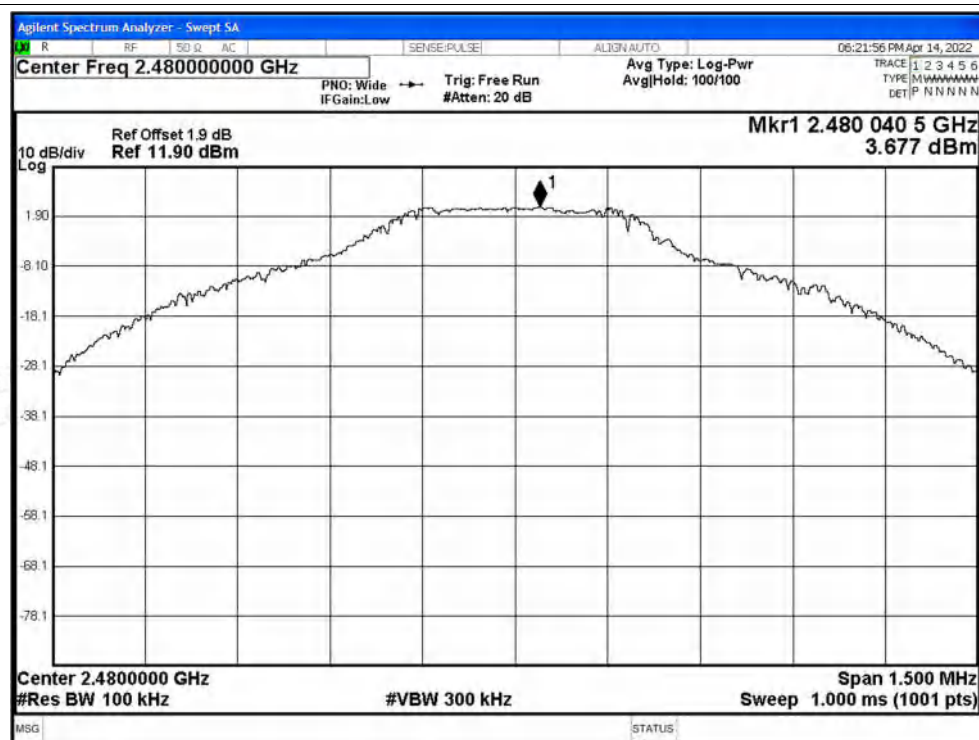
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

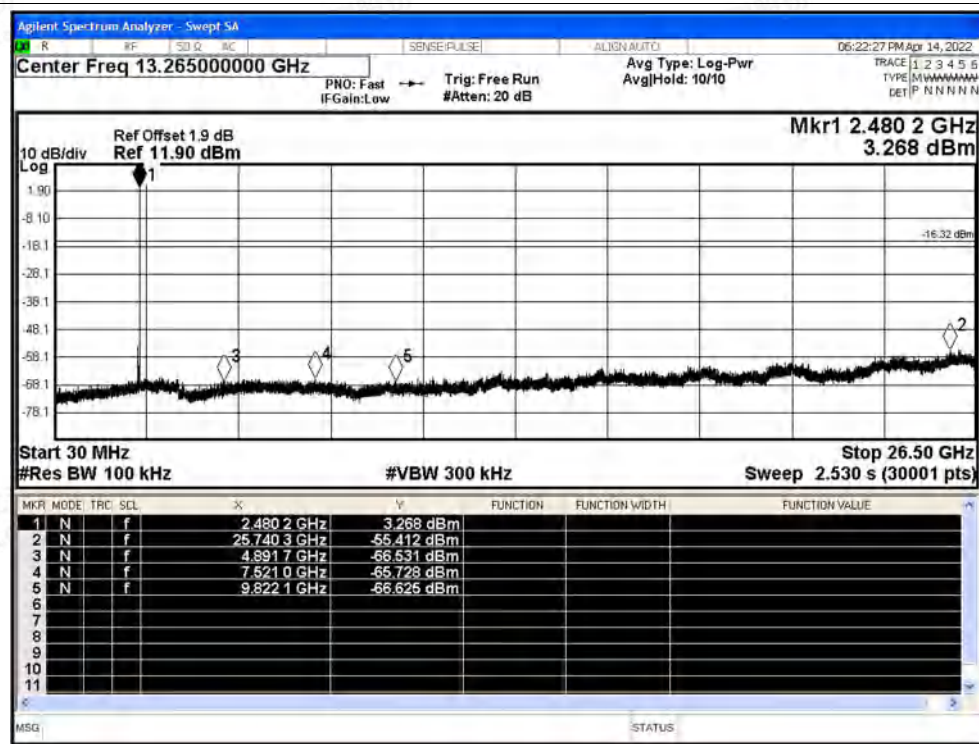
Scan code to check authenticity



Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref

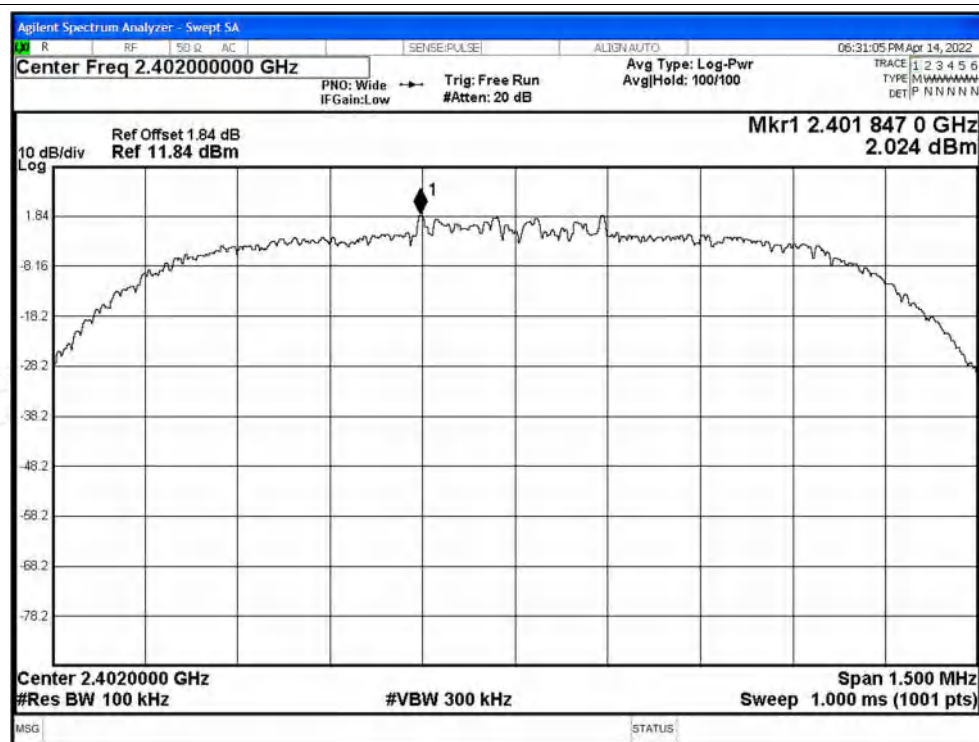


Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission

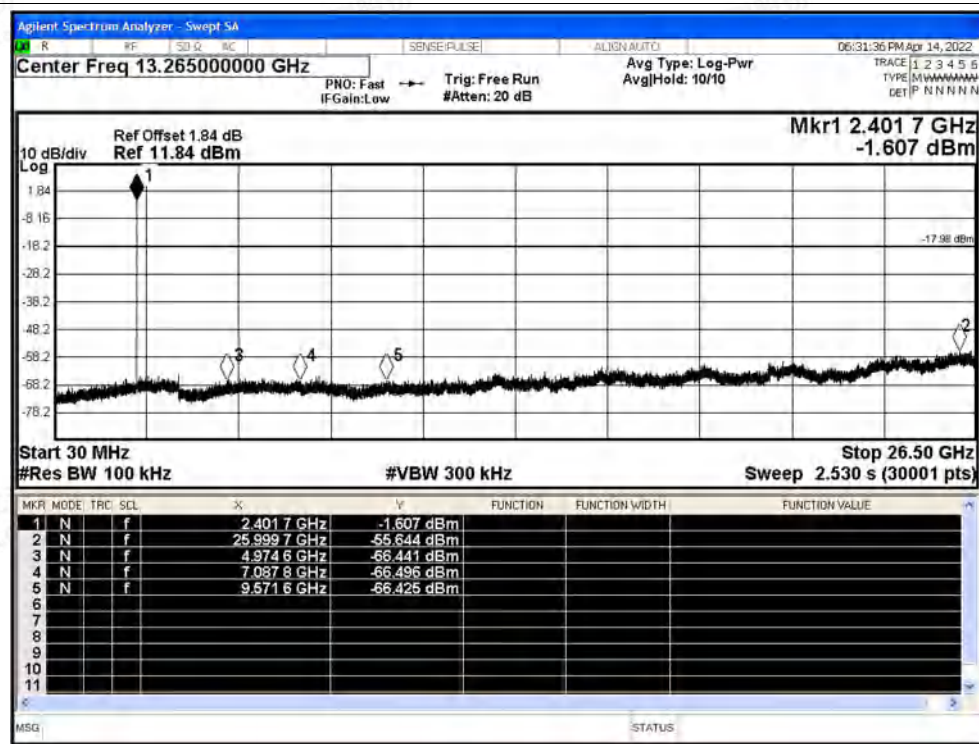




Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref

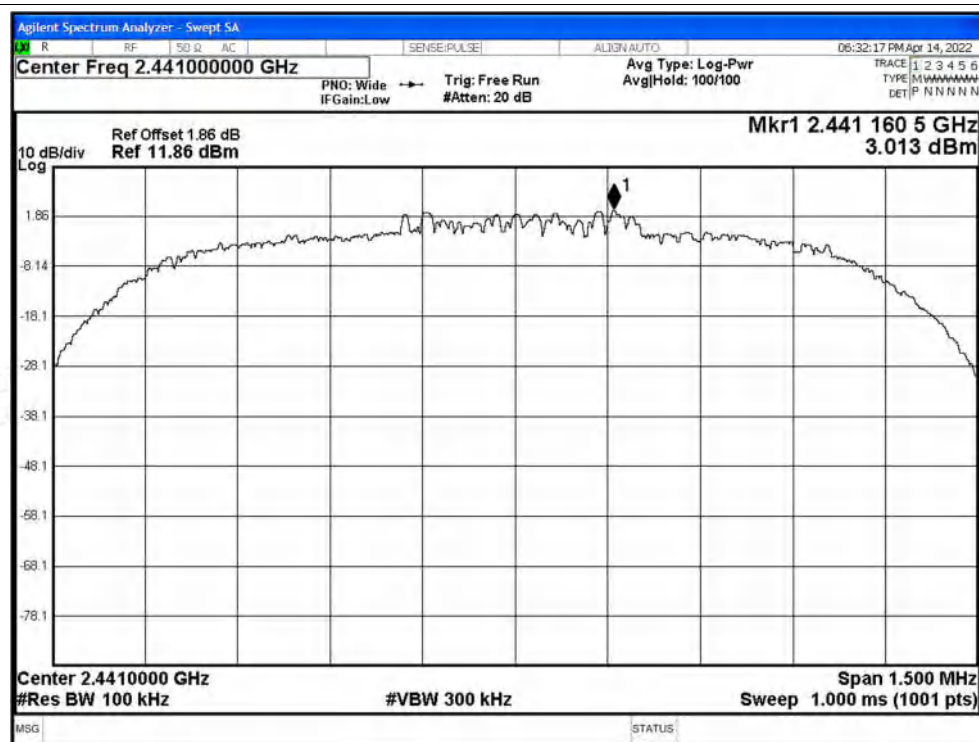


Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission

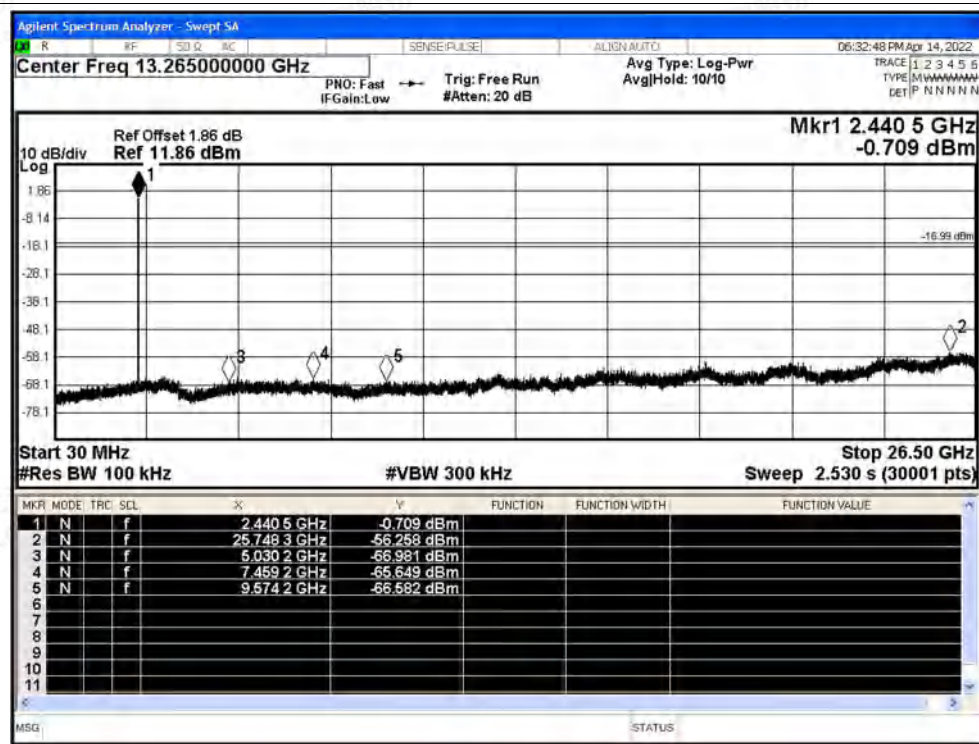




Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref

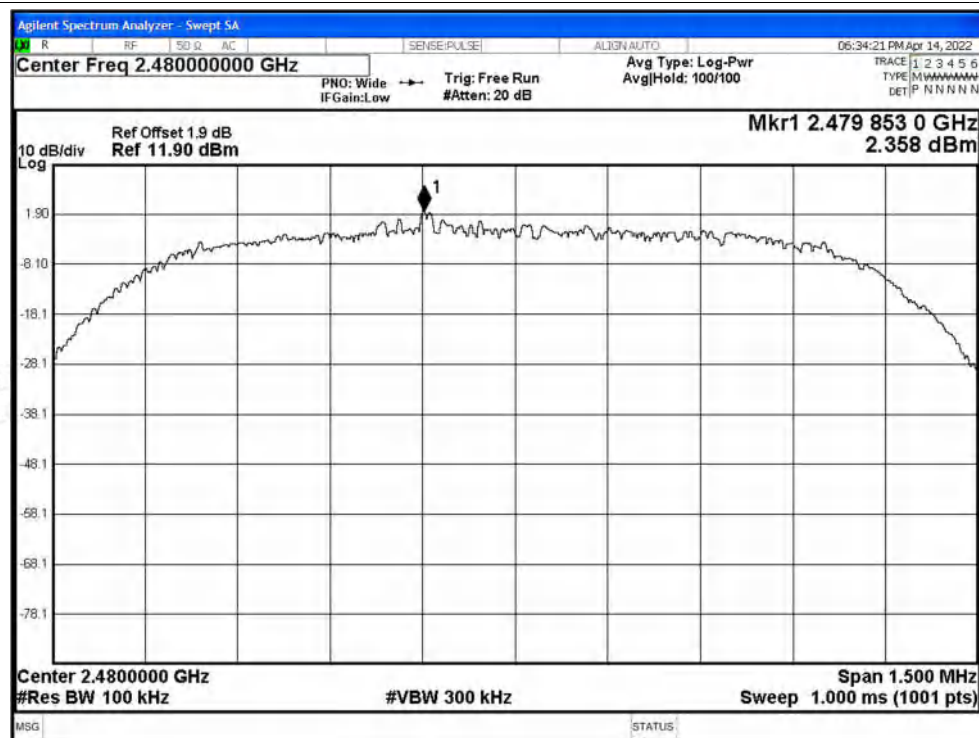


Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission

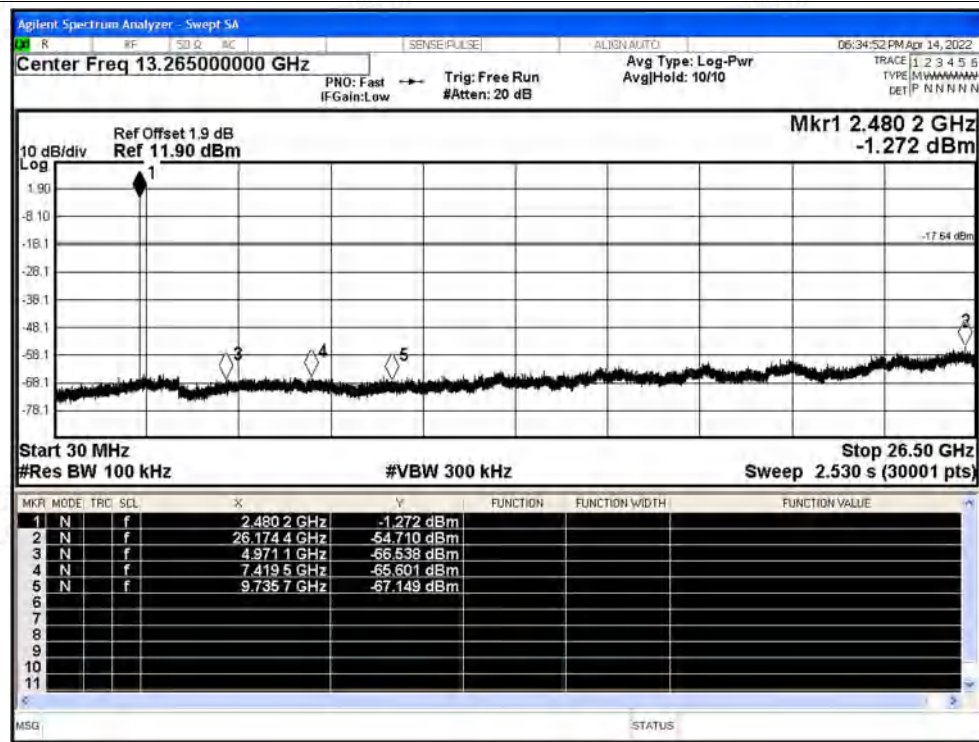




Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

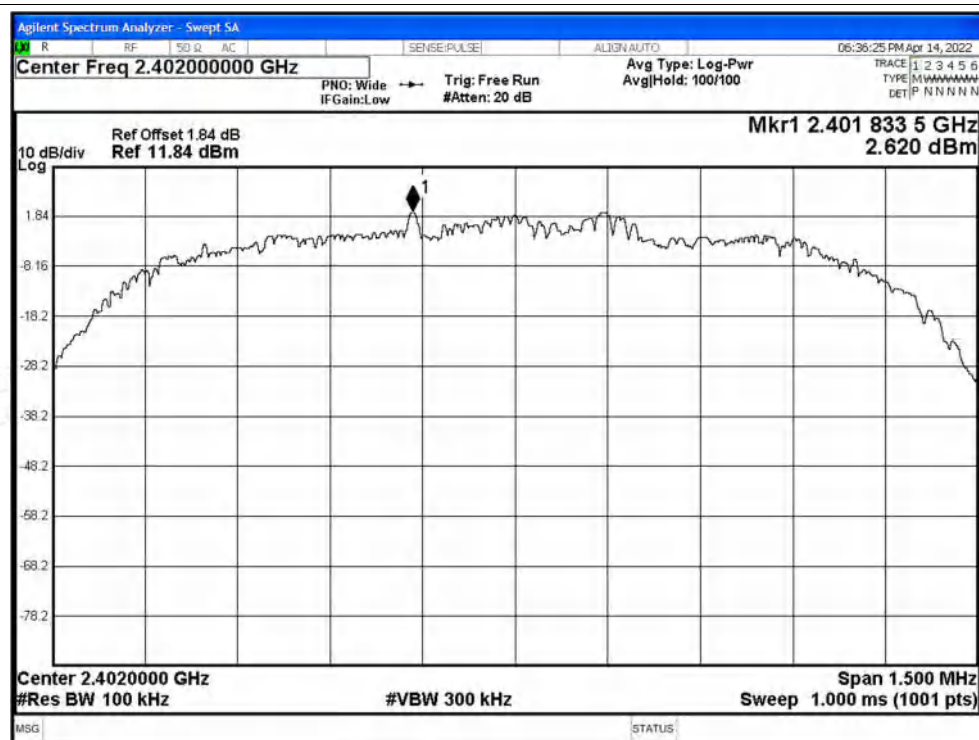
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

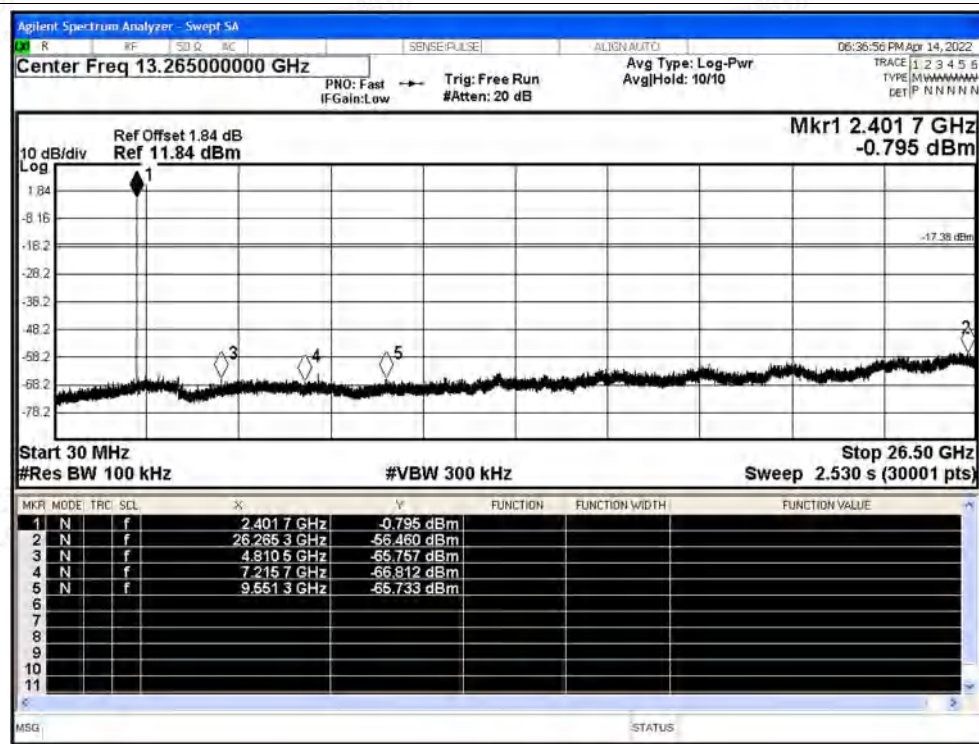
Scan code to check authenticity



Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 3-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

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

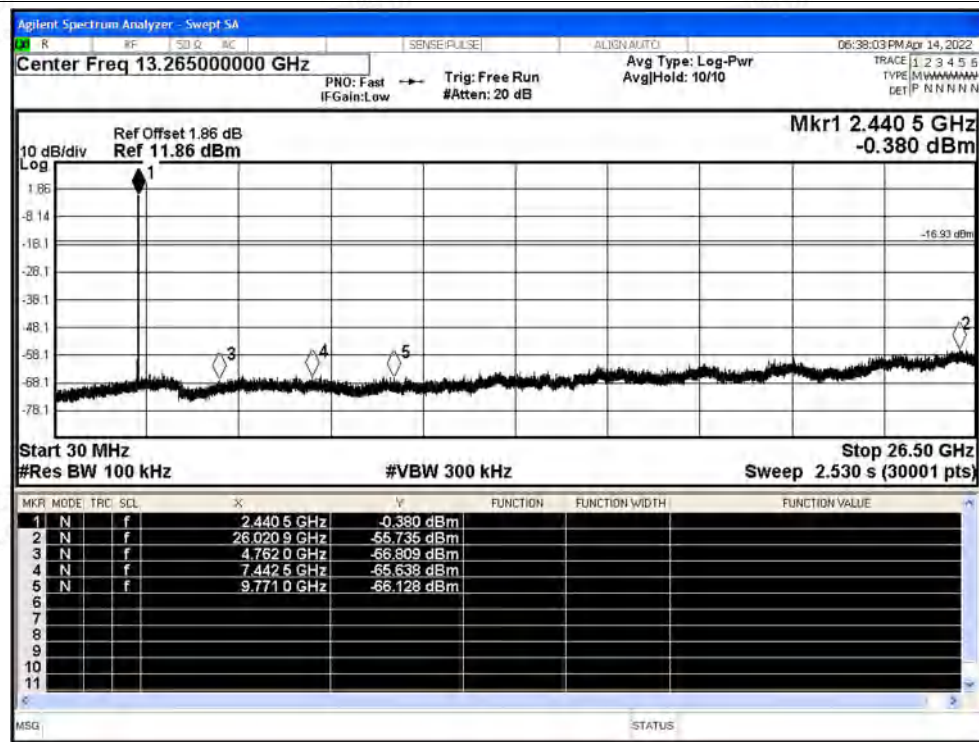
Scan code to check authenticity



Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Emission

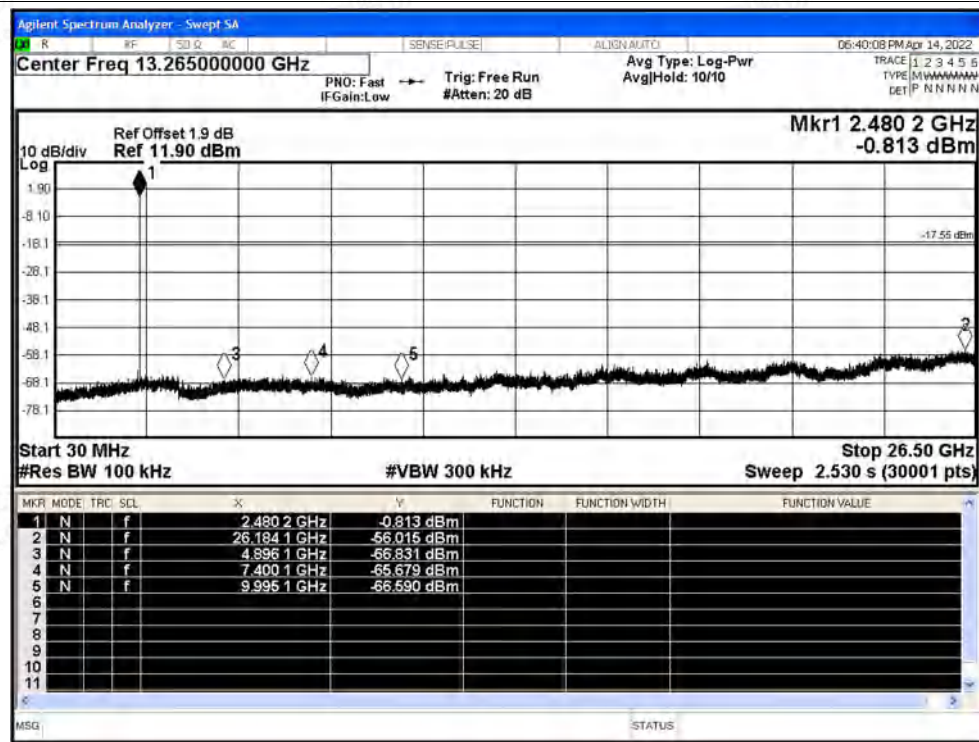




Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Emission





A.8 Restrict Band

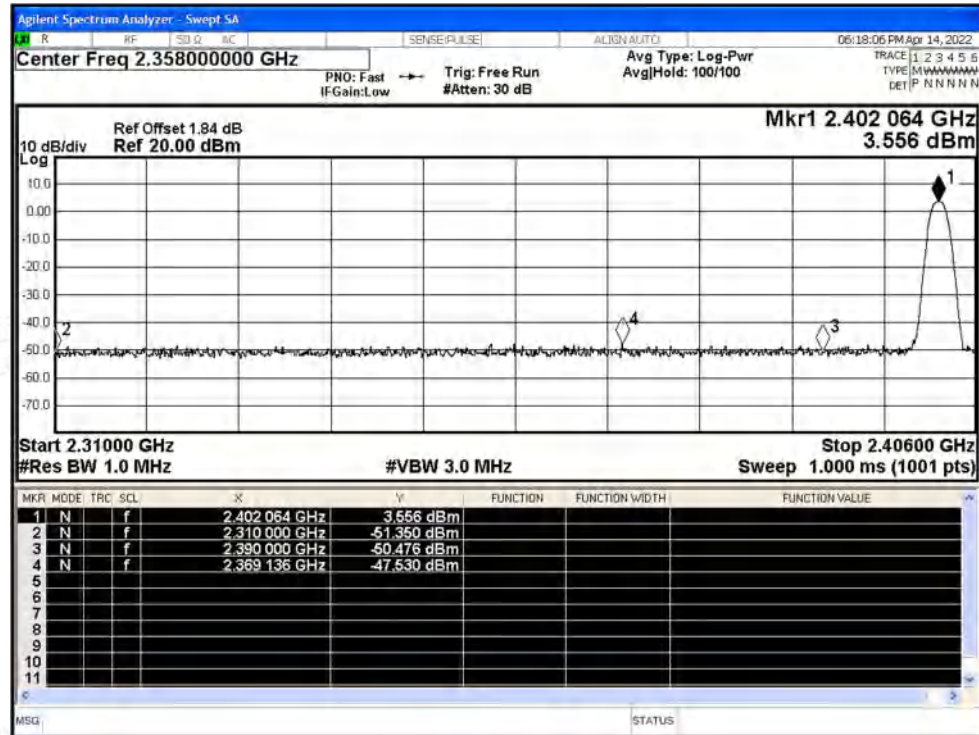
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-51.34	2	45.92	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-60.73	2	36.53	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2369.136	-47.53	2	49.73	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2386.8	-60.21	2	37.05	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-50.99	2	46.27	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-60.46	2	36.8	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-47.99	2	49.27	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-59.47	2	37.79	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.608	-46.18	2	51.08	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.584	-59.41	2	37.85	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-51.19	2	46.07	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-60.13	2	37.13	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-52.71	2	44.55	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-60.63	2	36.63	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2332.272	-47.58	2	49.68	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2389.2	-60.18	2	37.08	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-50.02	2	47.24	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-60.35	2	36.91	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-49.53	2	47.73	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-59.41	2	37.85	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2484.664	-47.53	2	49.73	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.632	-59.36	2	37.9	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-50.75	2	46.51	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-60.02	2	37.24	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-51.06	2	46.2	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-60.71	2	36.55	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310.096	-47.64	2	49.62	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2388.528	-60.27	2	36.99	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-51.57	2	45.69	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-60.39	2	36.87	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-49.29	2	47.97	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-59.18	2	38.08	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.776	-47.49	2	49.77	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.512	-59.18	2	38.08	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-50.93	2	46.33	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-60.04	2	37.22	Average	54	Pass



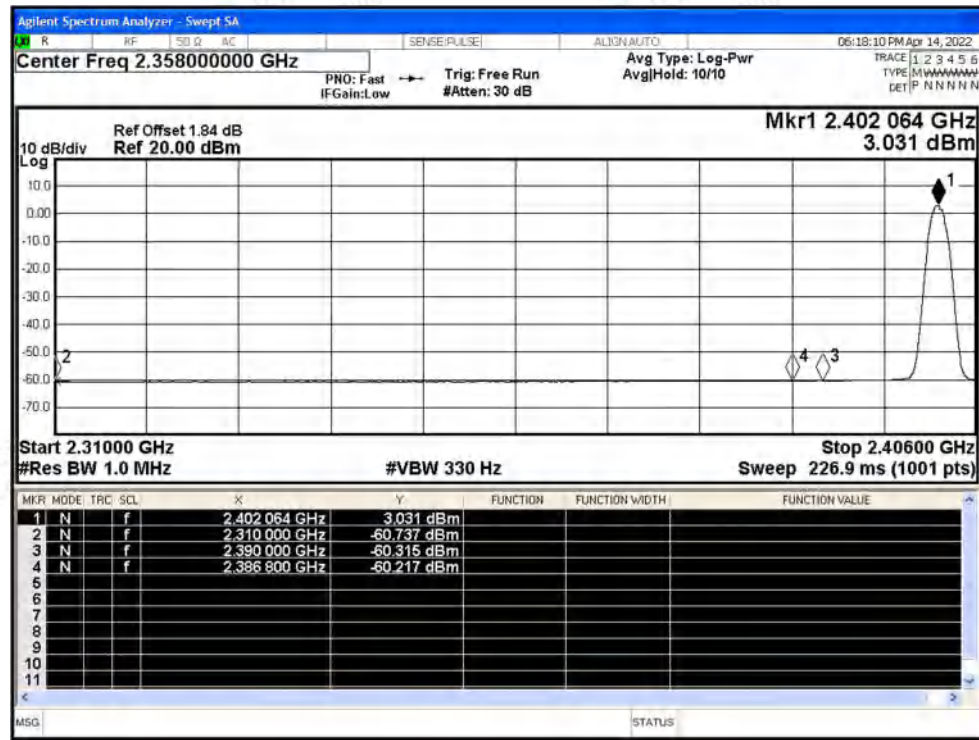


Test Graphs

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

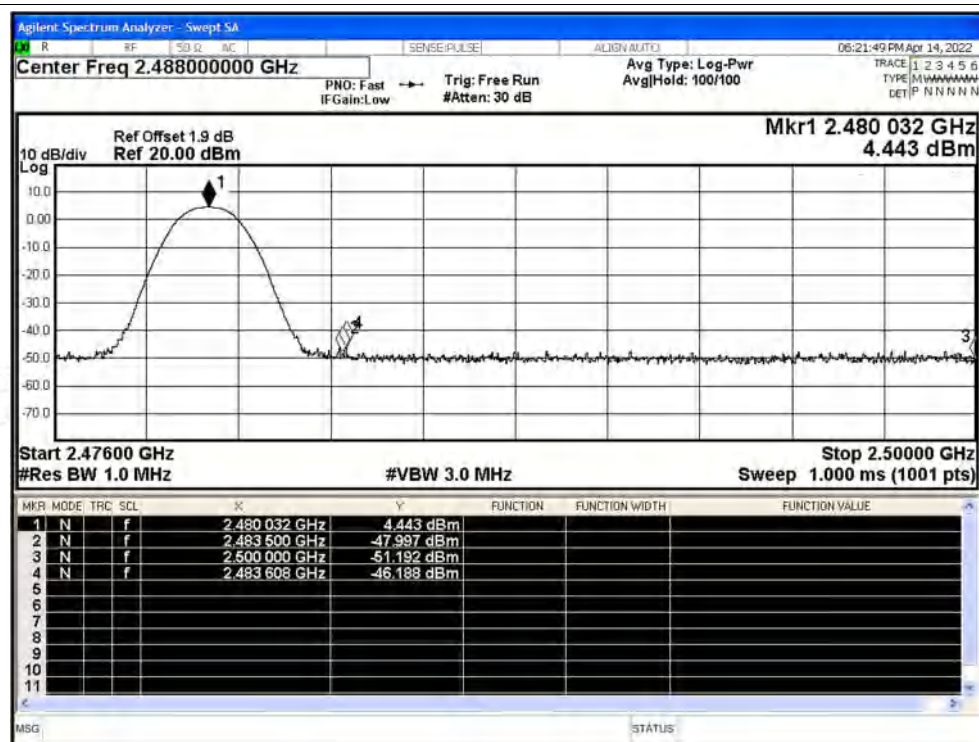


Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Average

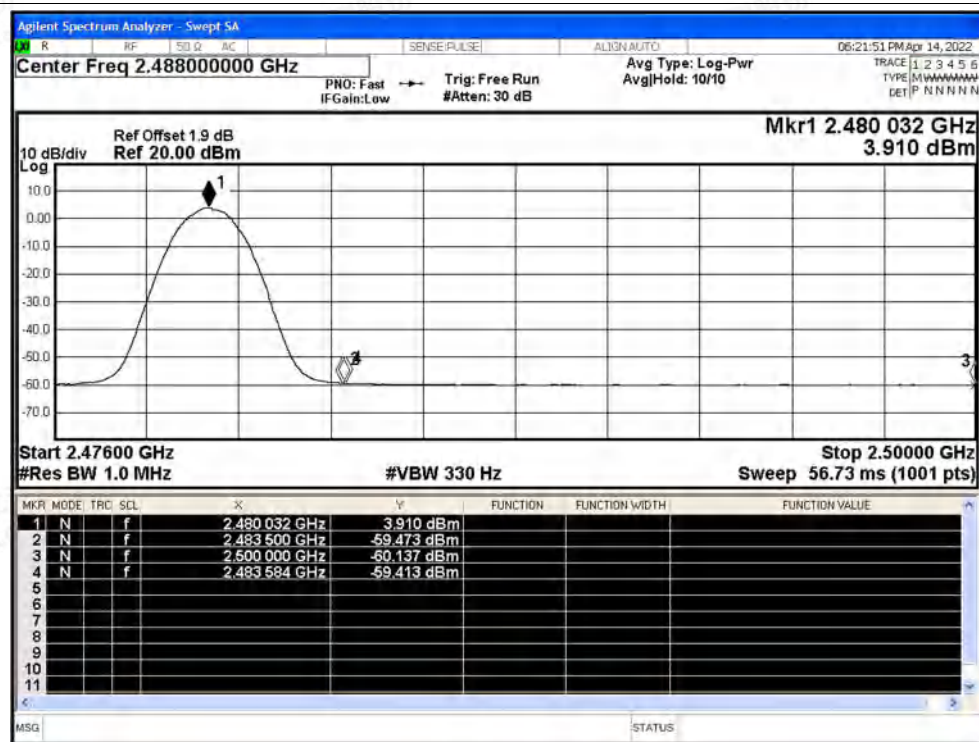




Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Peak

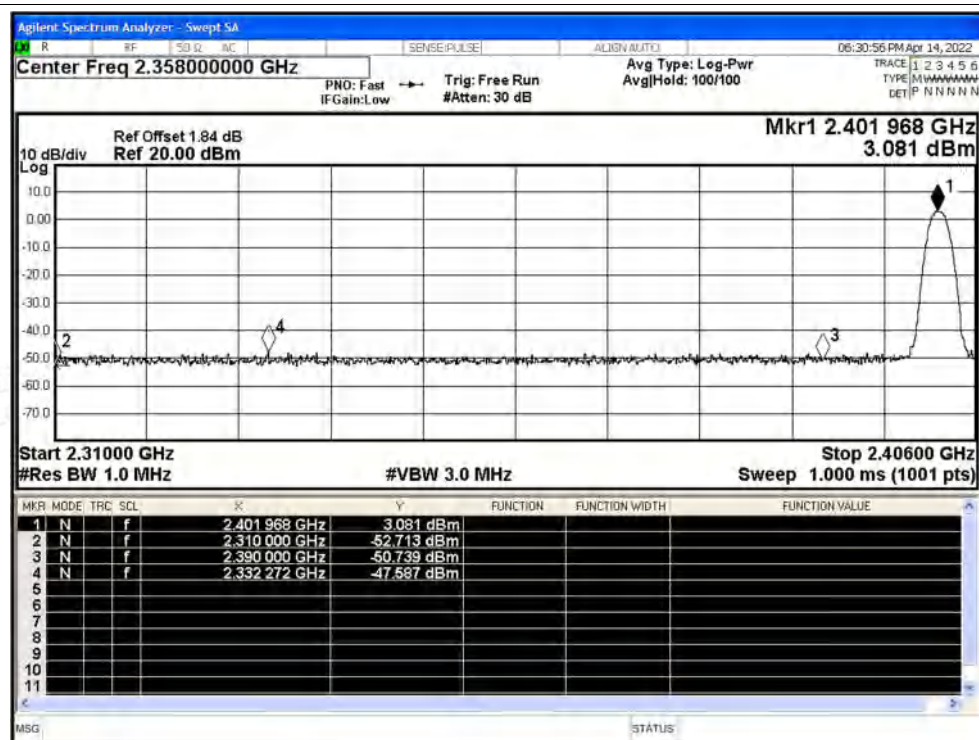


Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Average

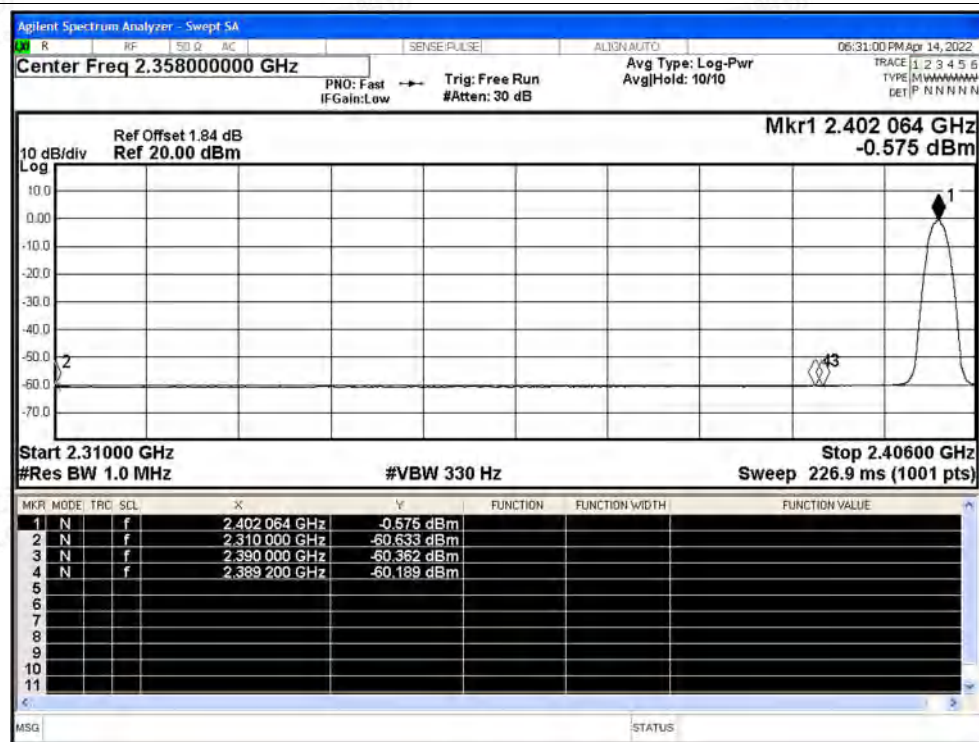




Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Peak

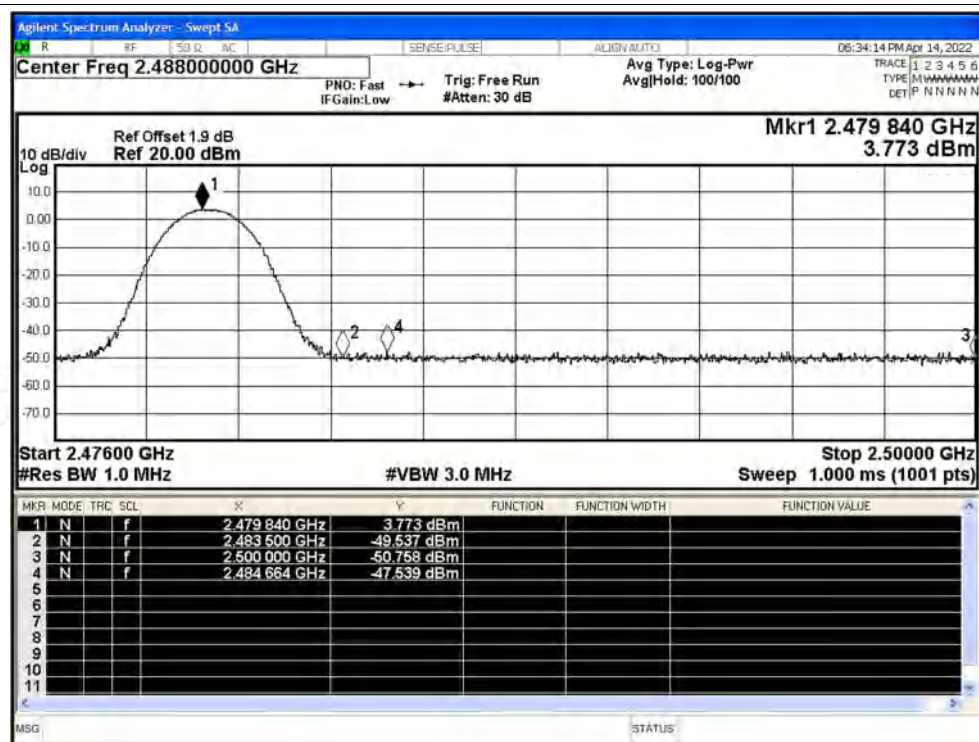


Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Average

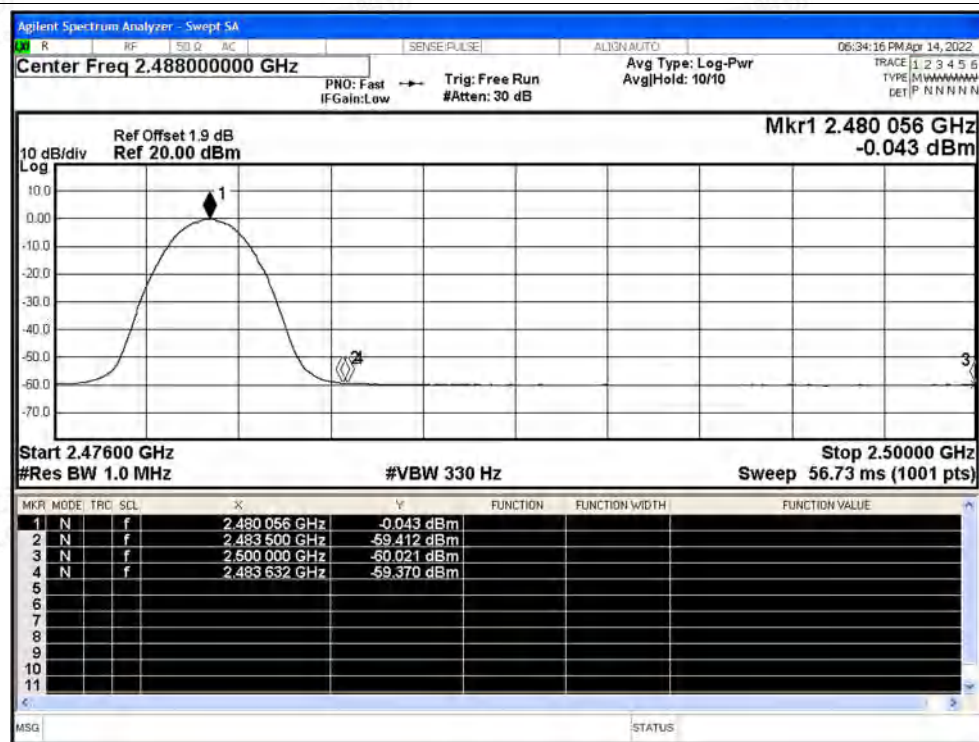




Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Peak

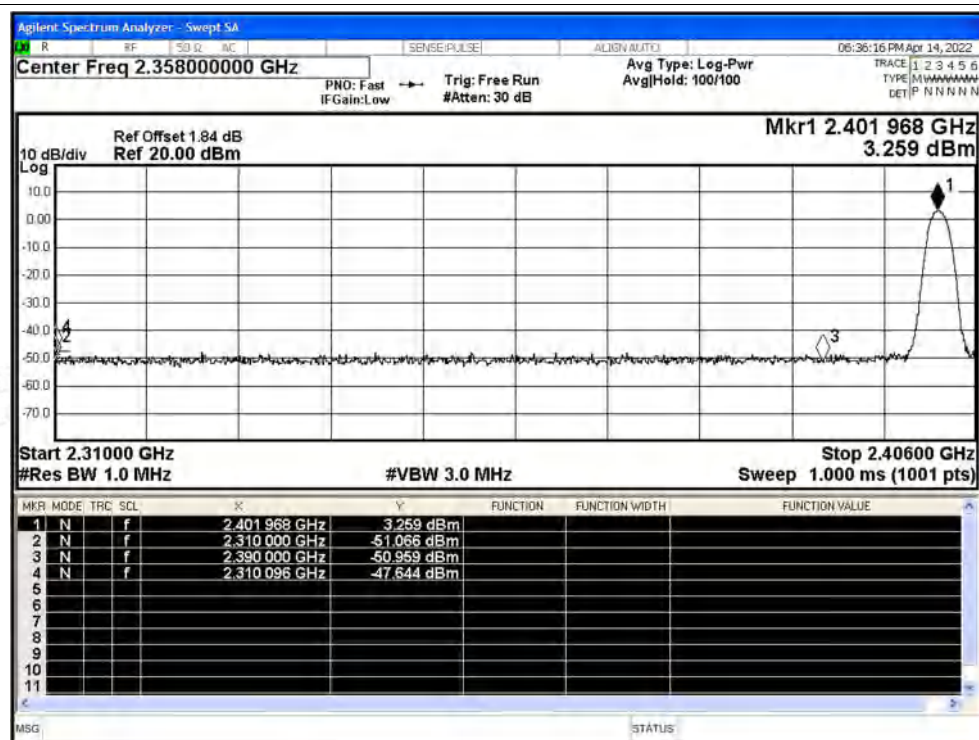


Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Average

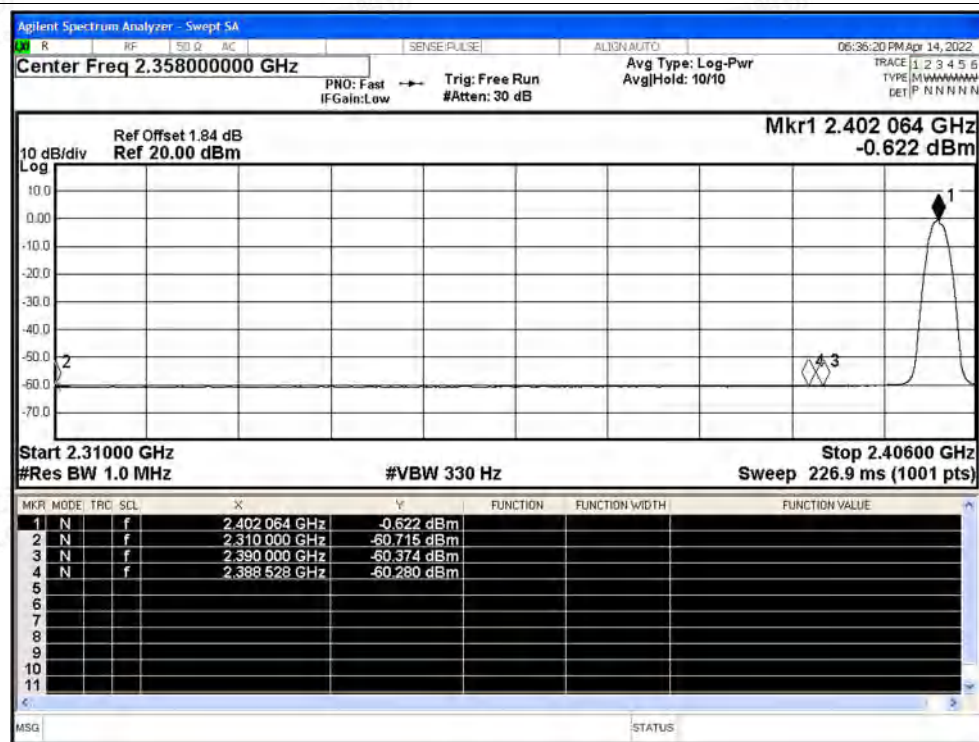




Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Peak

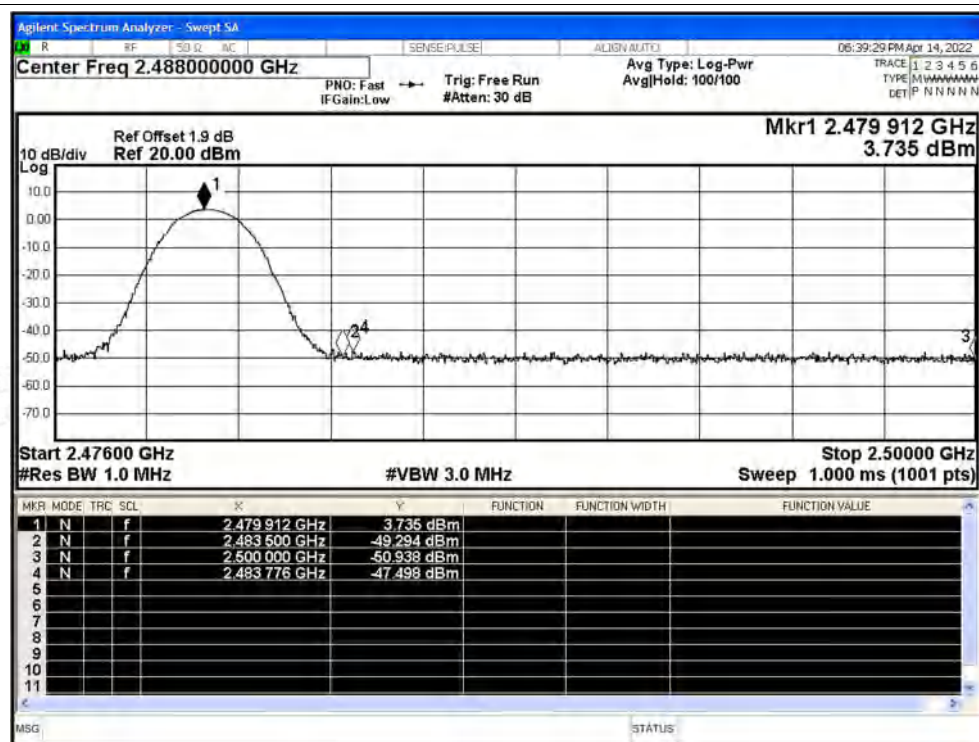


Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Average





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



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

