



## Appendix A

### RF Test Data for BT (Conducted Measurement)

Product Name: Smart POS

Test Model: WIZARPOS Q3B

#### Environmental Conditions

Temperature:	23.8° C
Relative Humidity:	52.1%
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	0.974	N/A	Pass
NVNT	1-DH5	2441	Ant1	0.972	N/A	Pass
NVNT	1-DH5	2480	Ant1	0.968	N/A	Pass
NVNT	2-DH5	2402	Ant1	1.32	N/A	Pass
NVNT	2-DH5	2441	Ant1	1.286	N/A	Pass
NVNT	2-DH5	2480	Ant1	1.28	N/A	Pass
NVNT	3-DH5	2402	Ant1	1.298	N/A	Pass
NVNT	3-DH5	2441	Ant1	1.269	N/A	Pass
NVNT	3-DH5	2480	Ant1	1.297	N/A	Pass

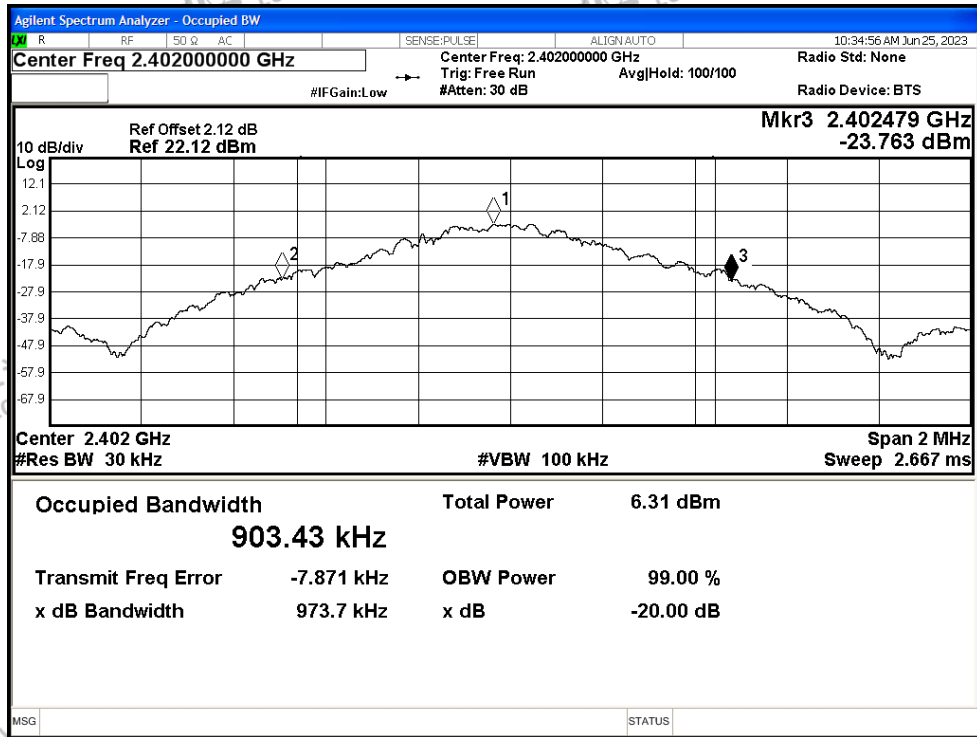


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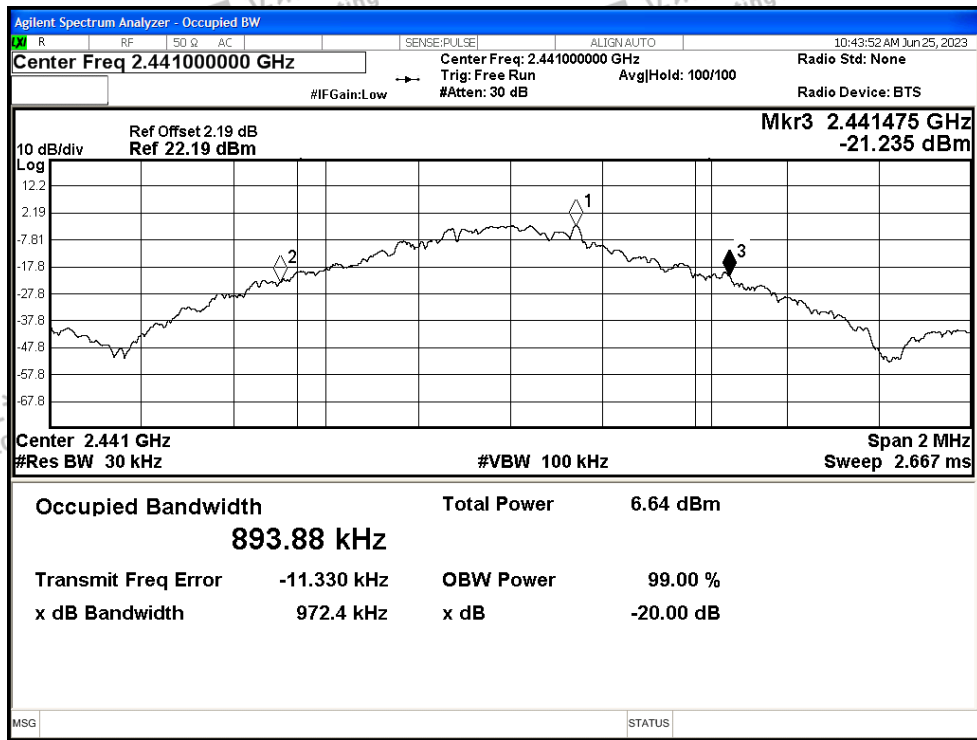


Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1

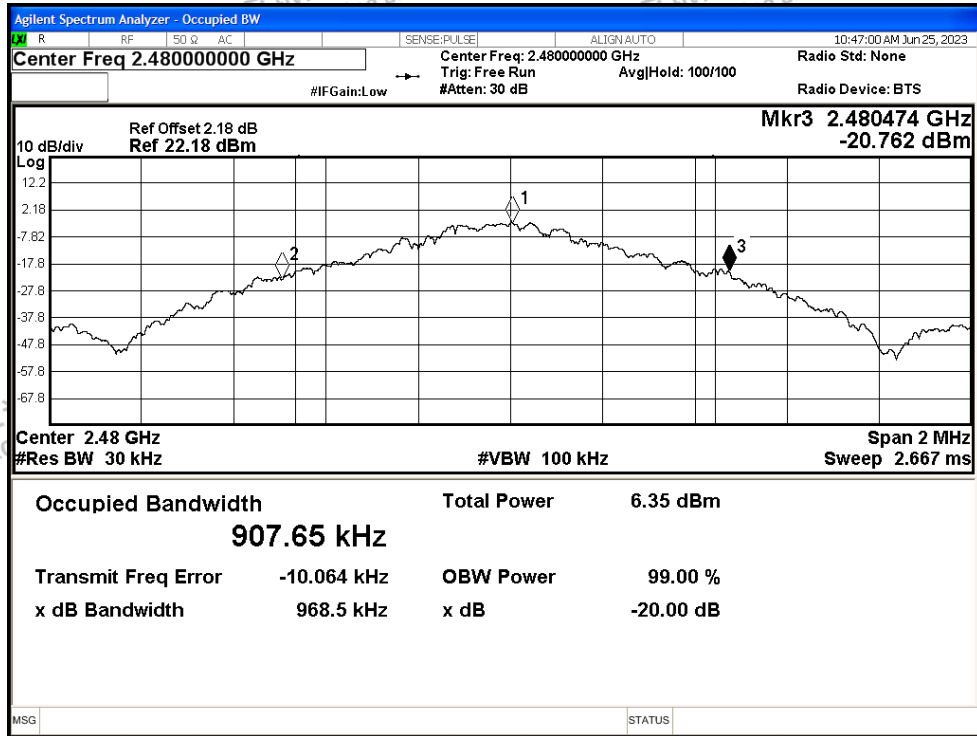


-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1

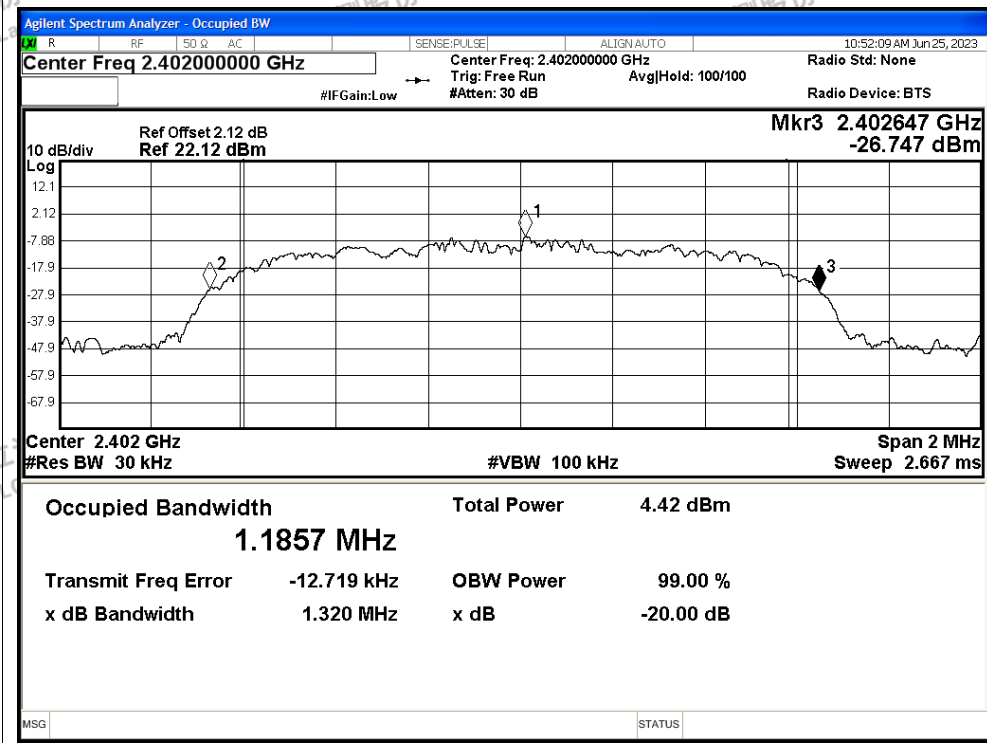




-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1

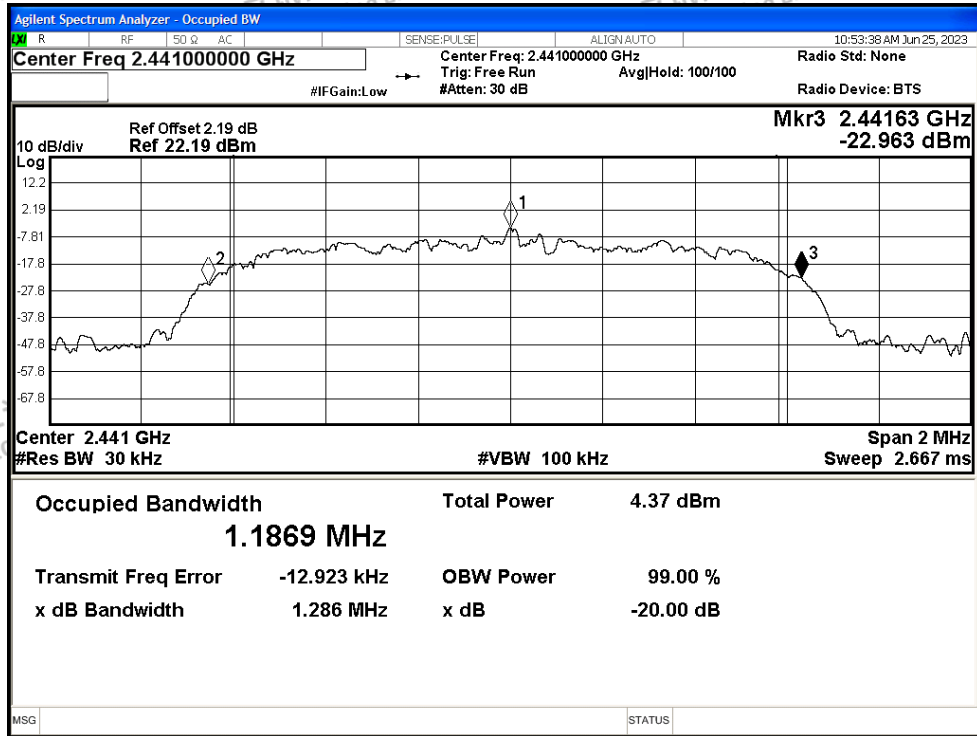


-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1

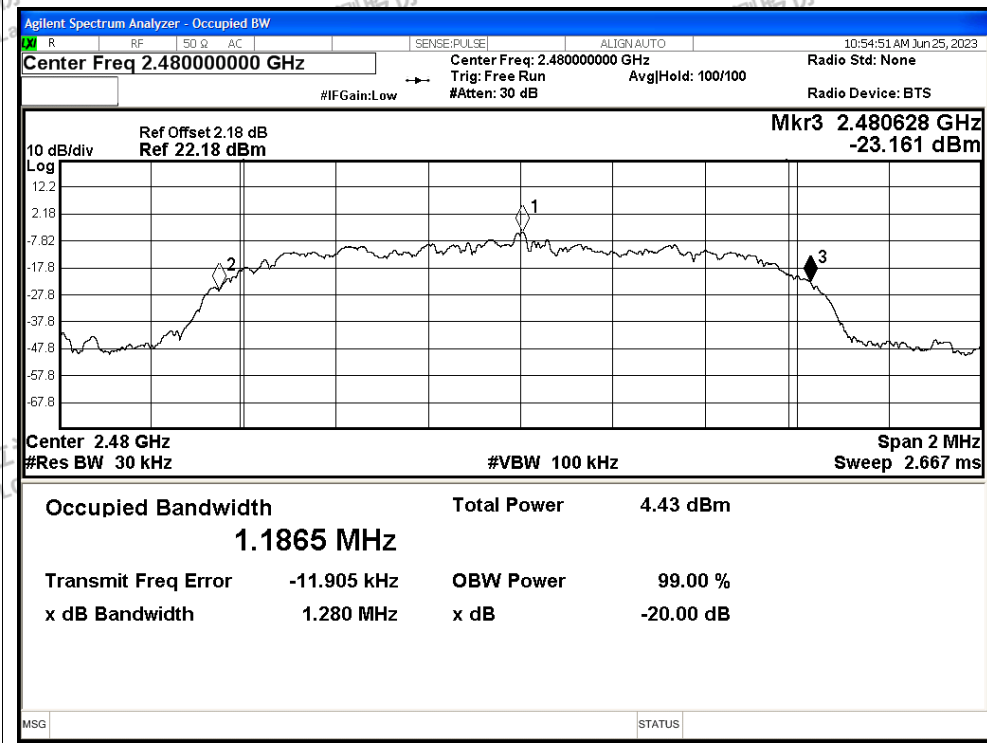




-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1

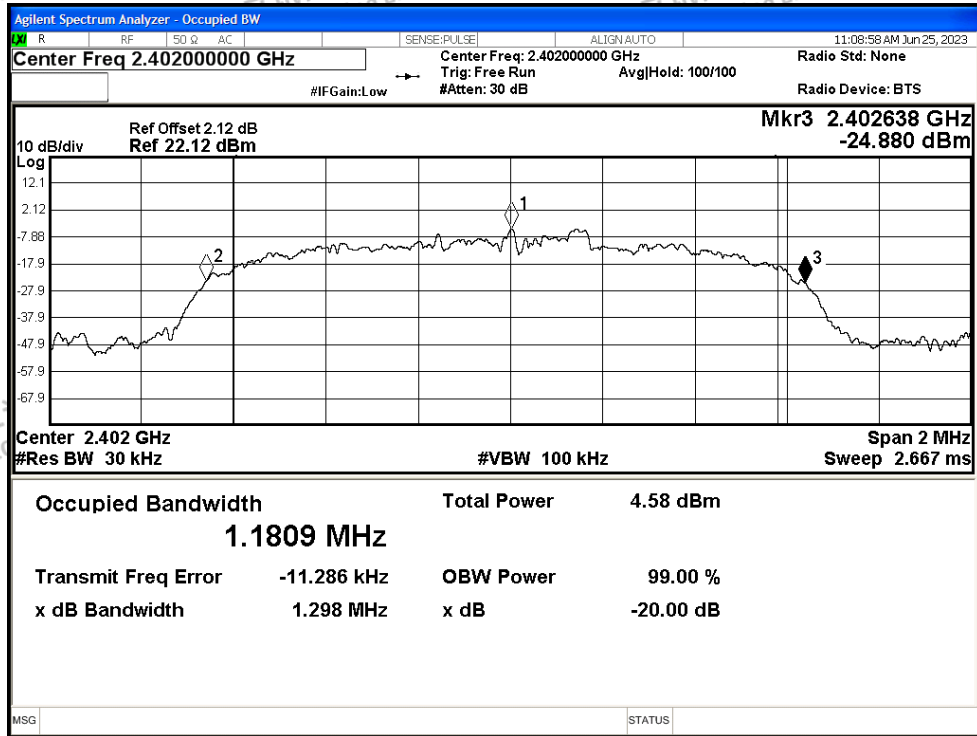


-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1

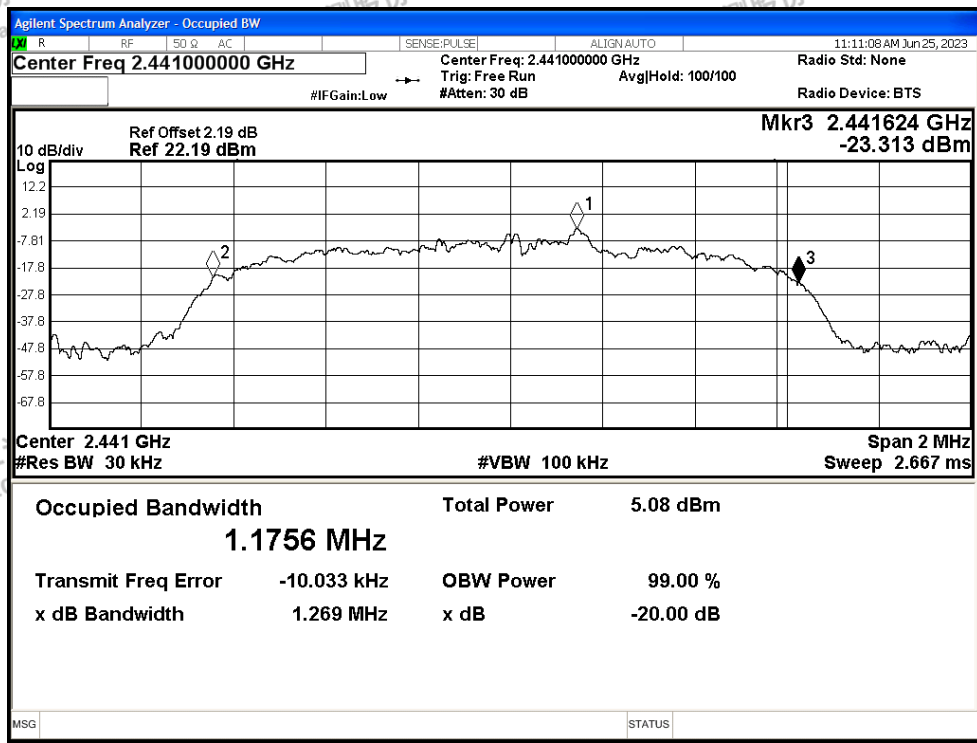




-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1

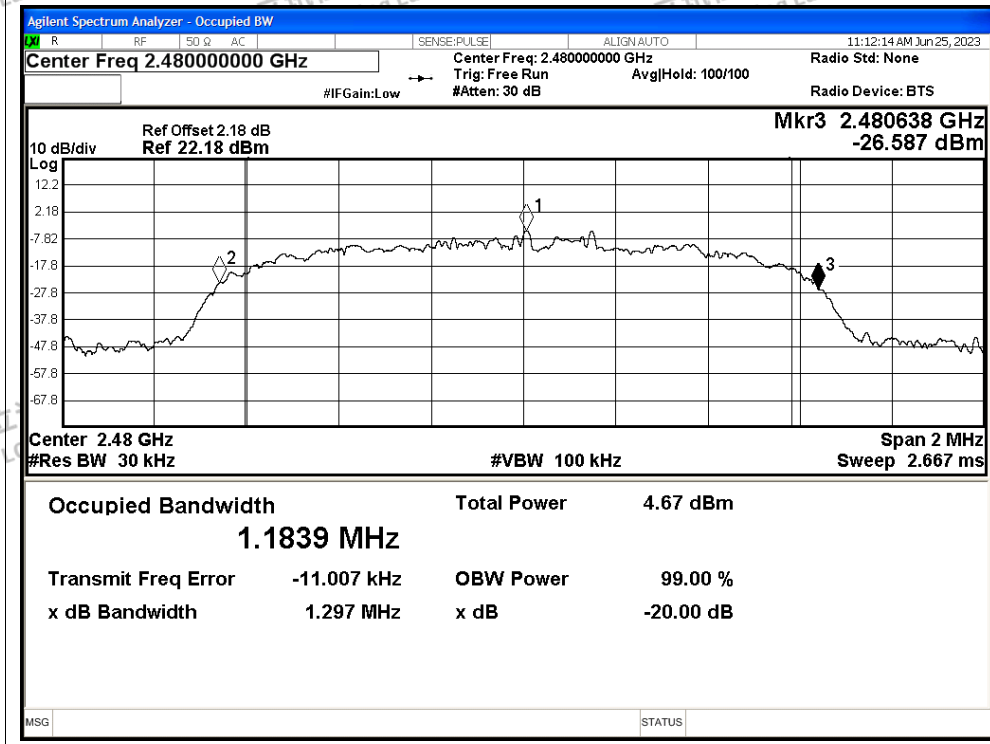


-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1





-20dB Bandwidth NVNT 3-DH5 2480MHz Ant1







## A.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	0.23	21	Pass
NVNT	1-DH5	2441	Ant1	0.42	21	Pass
NVNT	1-DH5	2480	Ant1	0.36	21	Pass
NVNT	2-DH5	2402	Ant1	-0.05	21	Pass
NVNT	2-DH5	2441	Ant1	0.2	21	Pass
NVNT	2-DH5	2480	Ant1	0.2	21	Pass
NVNT	3-DH5	2402	Ant1	0.09	21	Pass
NVNT	3-DH5	2441	Ant1	0.31	21	Pass
NVNT	3-DH5	2480	Ant1	0.25	21	Pass

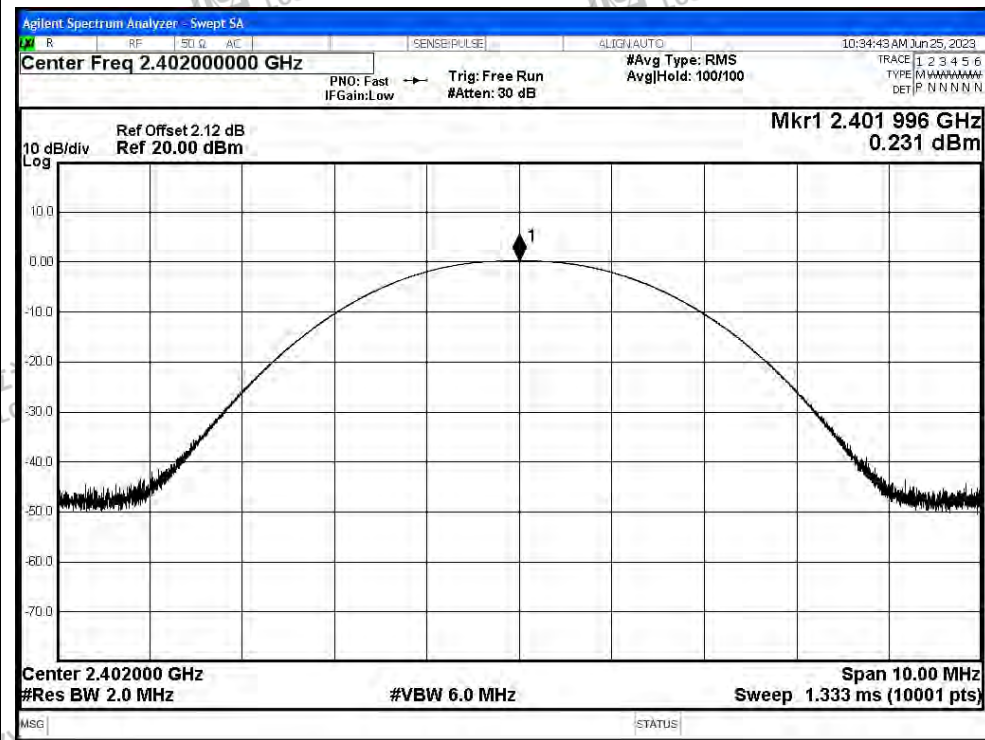




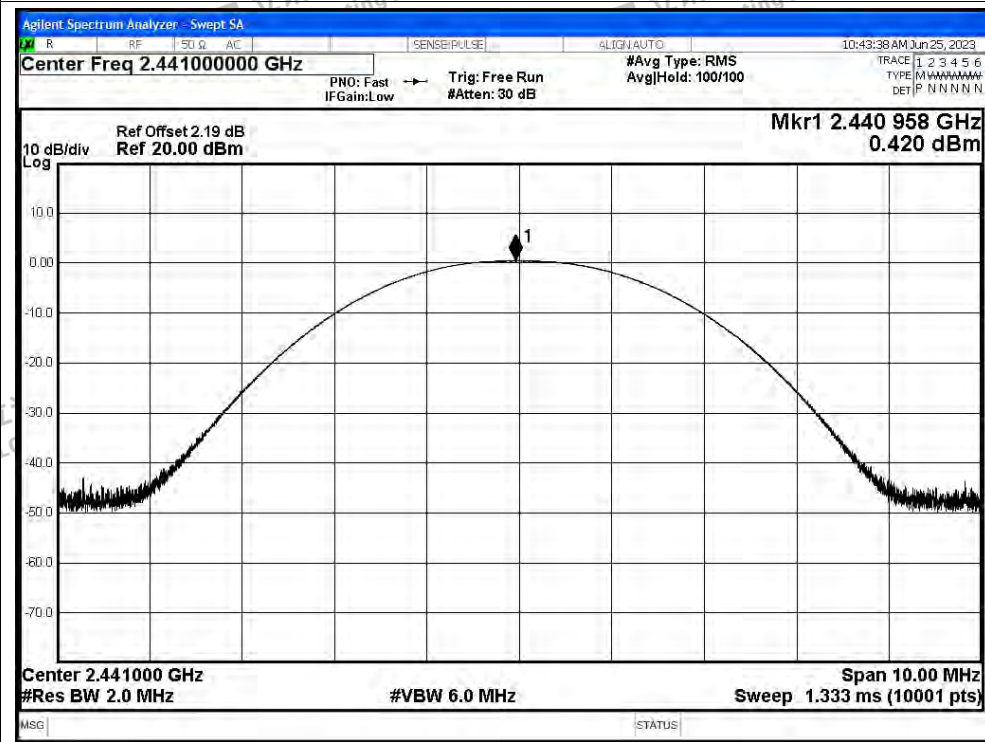


Test Graphs

Power NVNT 1-DH5 2402MHz Ant1

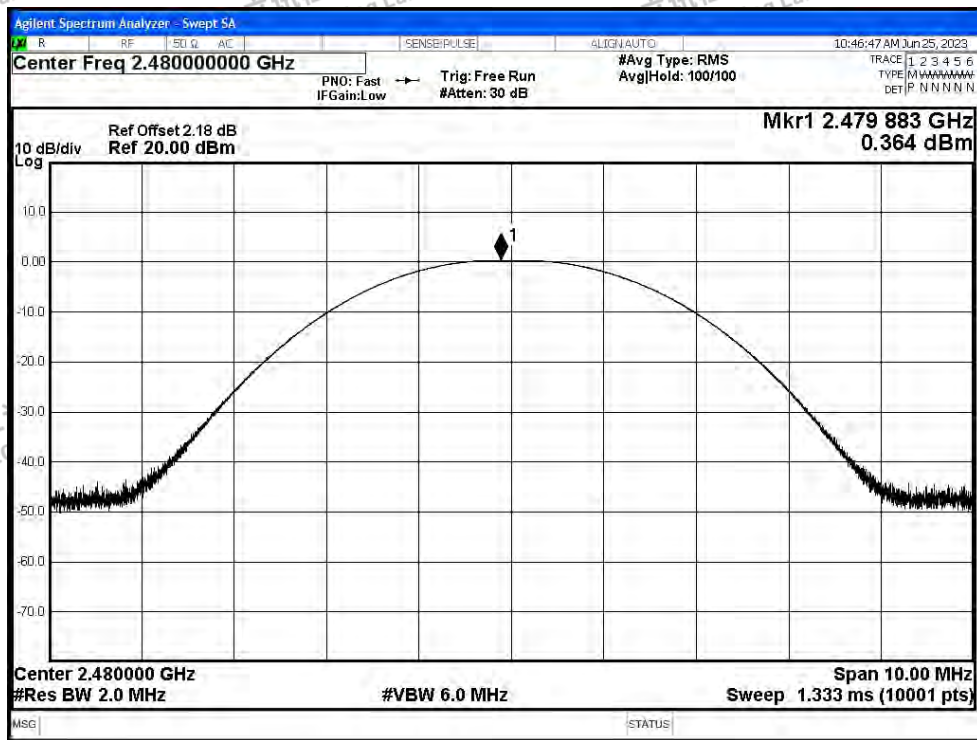


Power NVNT 1-DH5 2441MHz Ant1

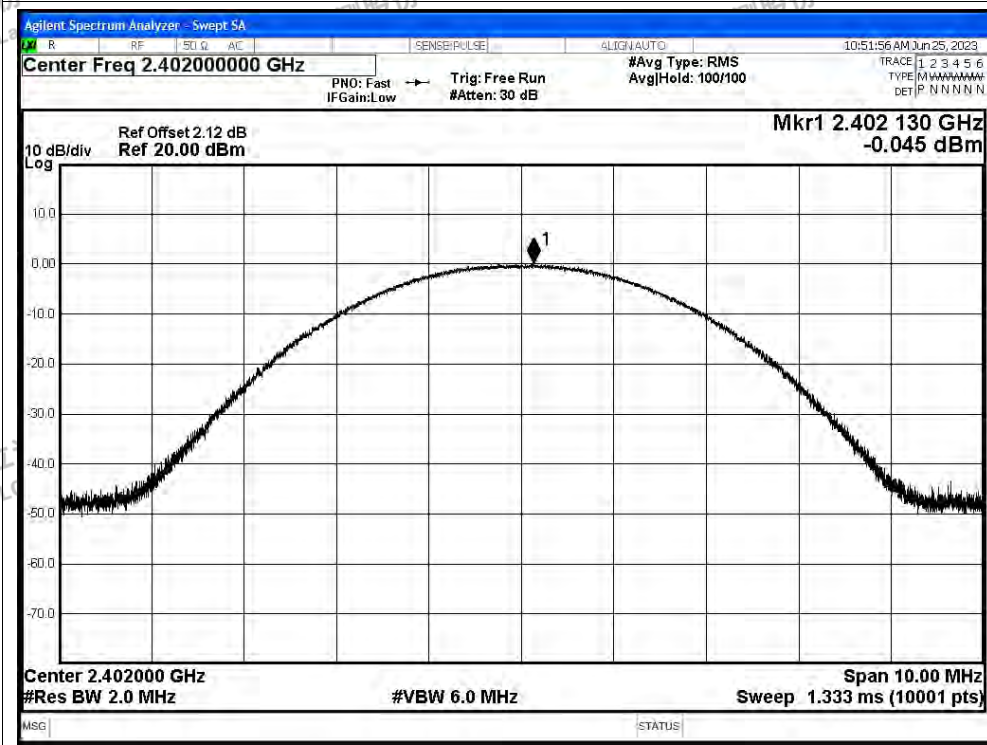




Power NVNT 1-DH5 2480MHz Ant1

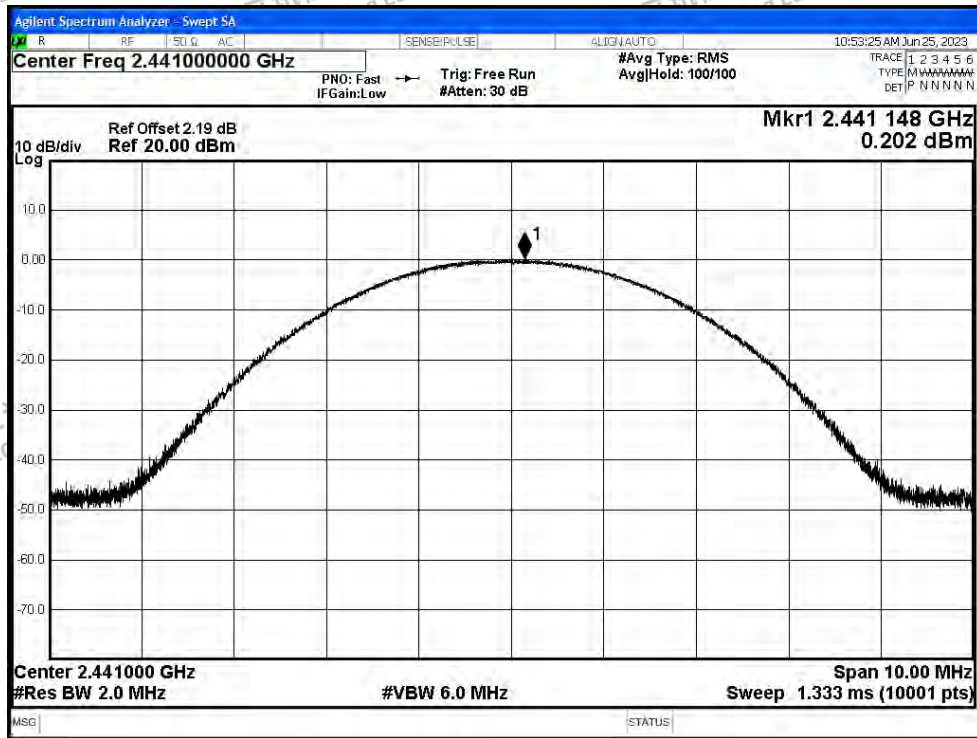


Power NVNT 2-DH5 2402MHz Ant1

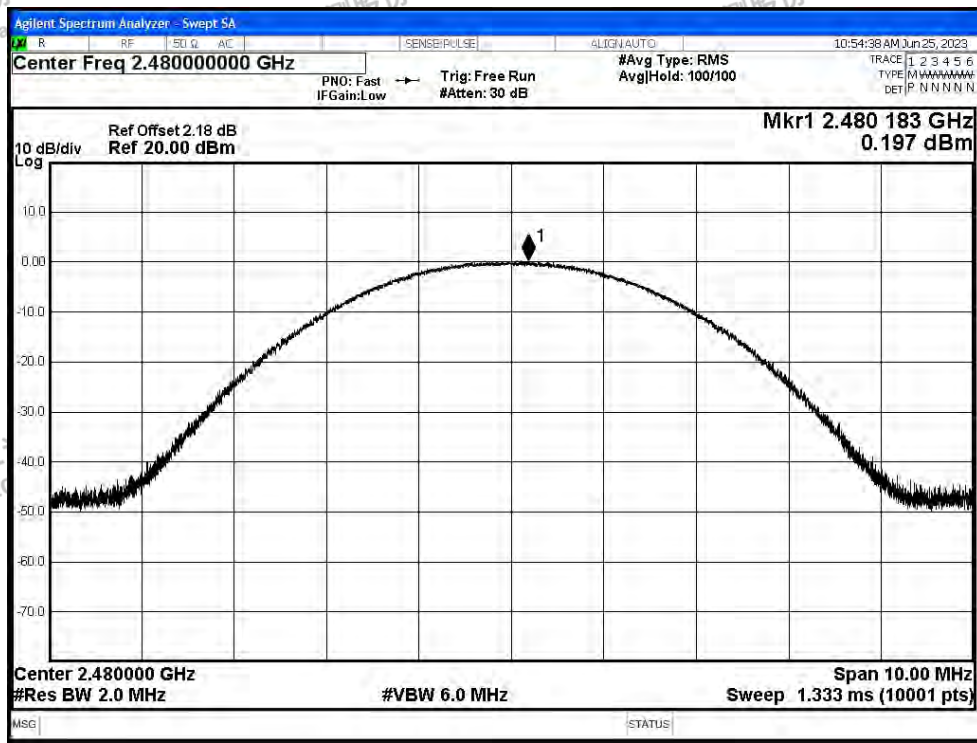




Power NVNT 2-DH5 2441MHz Ant1



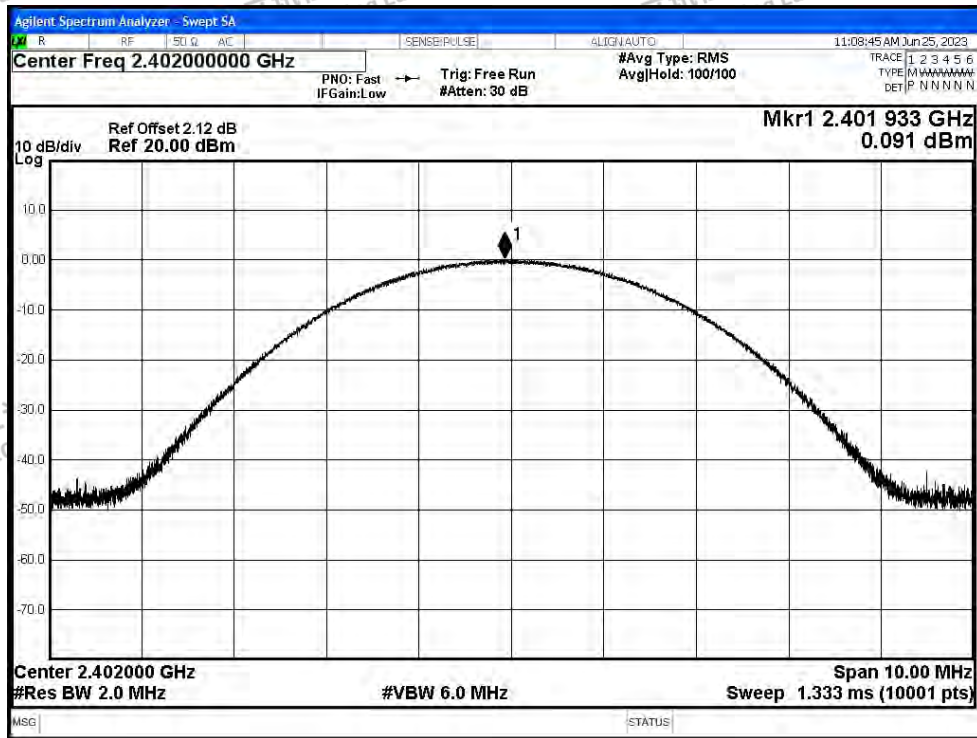
Power NVNT 2-DH5 2480MHz Ant1



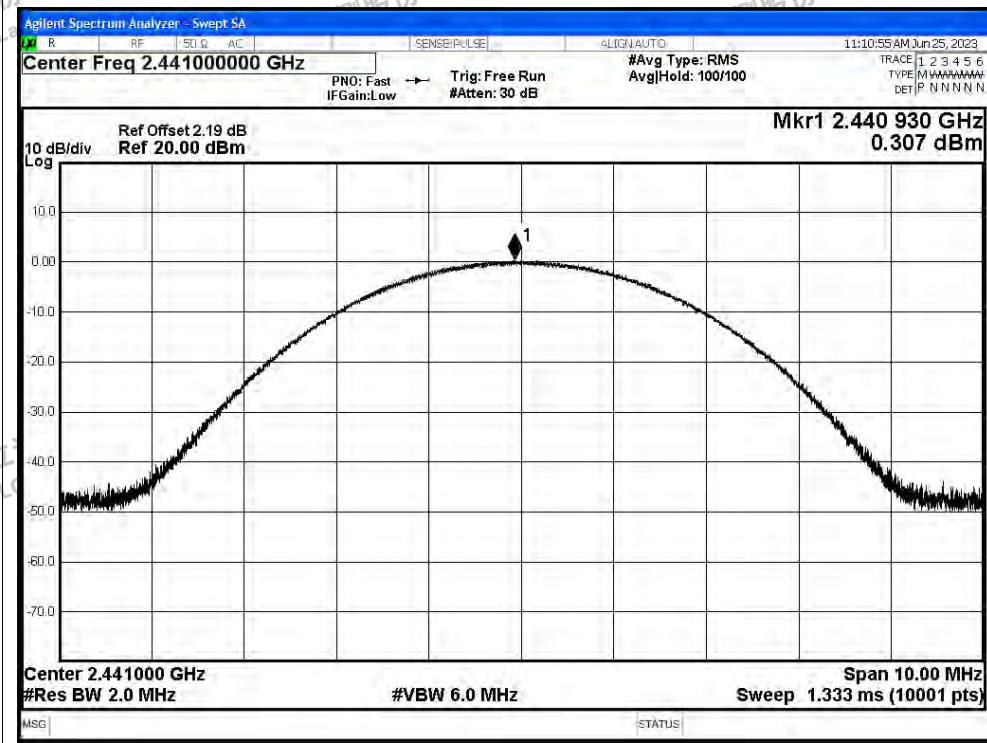




Power NVNT 3-DH5 2402MHz Ant1

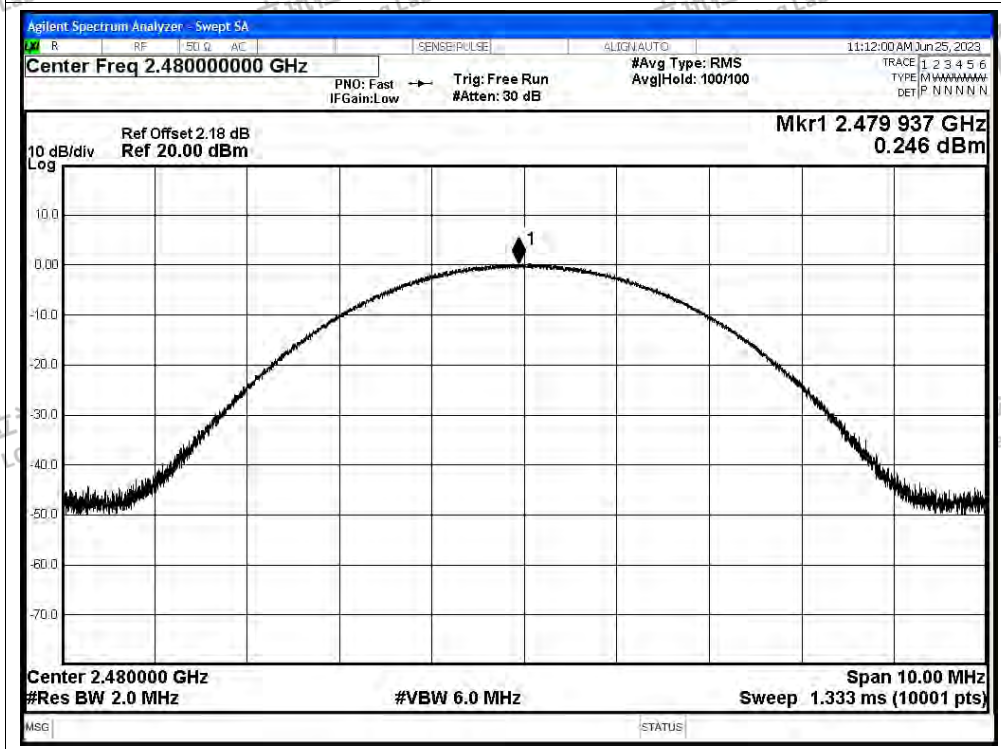


Power NVNT 3-DH5 2441MHz Ant1





Power NVNT 3-DH5 2480MHz Ant1





### A.3 Carrier Frequencies Separation

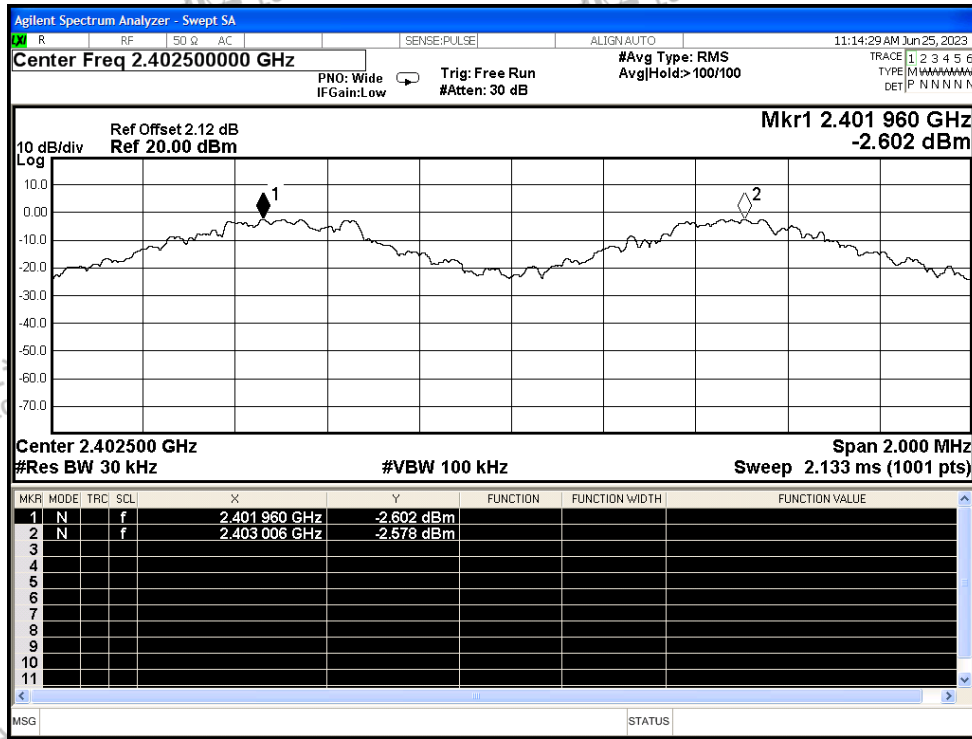
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2401.96	2403.006	1.046	0.649	Pass
NVNT	2-DH5	Ant1	2401.994	2403.002	1.008	0.880	Pass
NVNT	3-DH5	Ant1	2402.148	2403.164	1.016	0.865	Pass



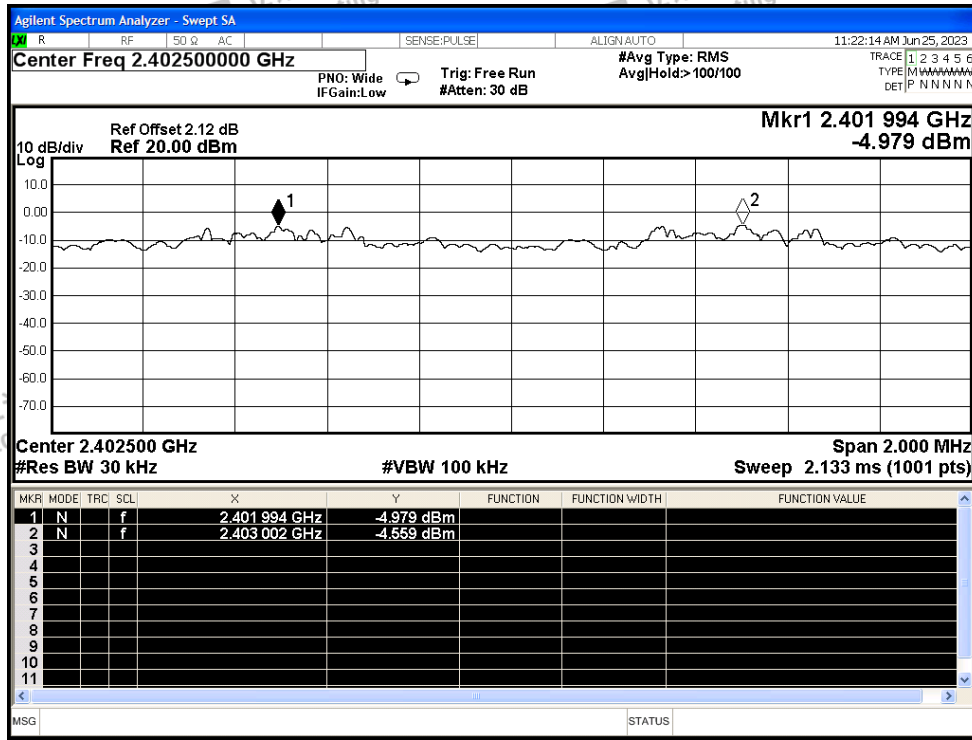


Test Graphs

CFS NVNT 1-DH5 2402MHz Ant1



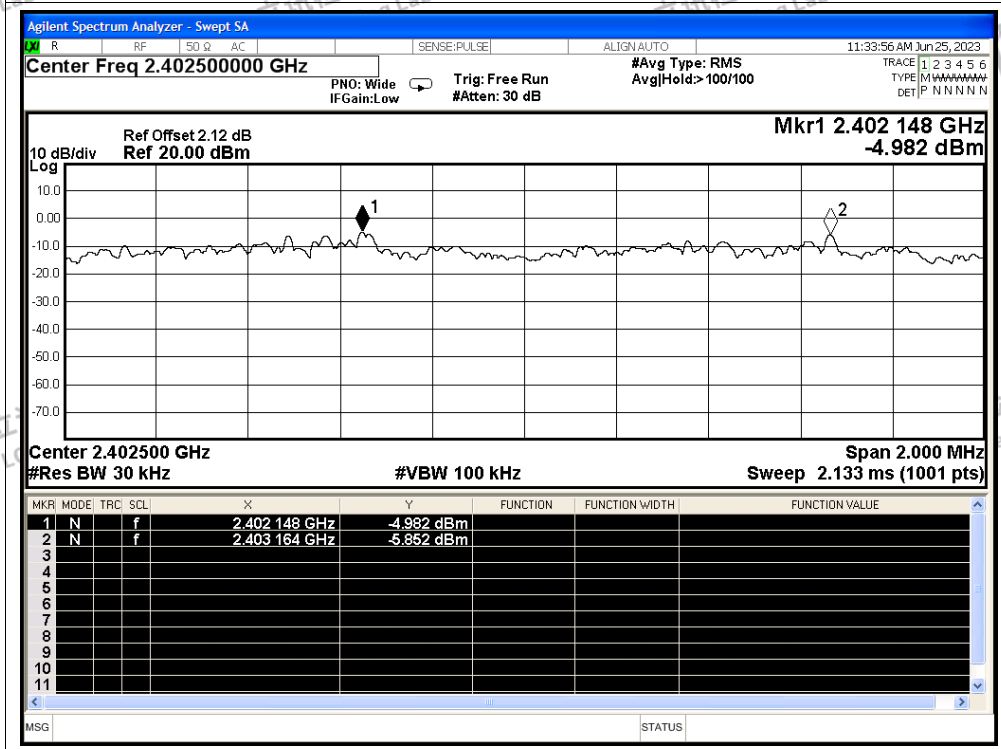
CFS NVNT 2-DH5 2402MHz Ant1







CFS NVNT 3-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	2.881	273.695	95	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.88	334.08	116	31600	400	Pass
NVNT	3-DH5	2402	Ant1	2.887	300.248	104	31600	400	Pass

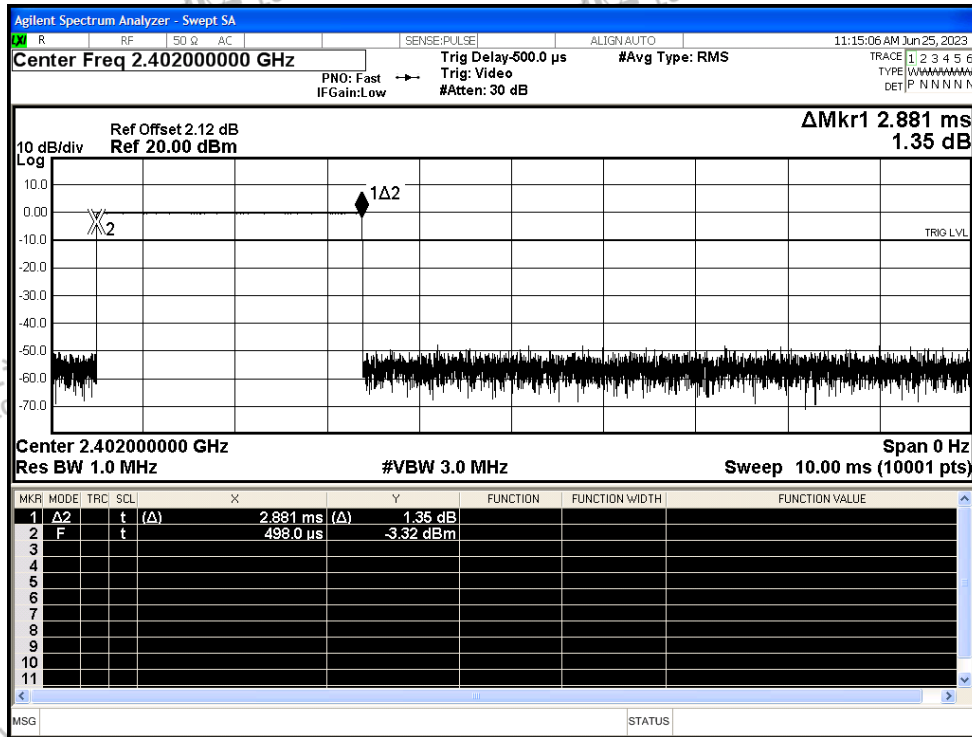


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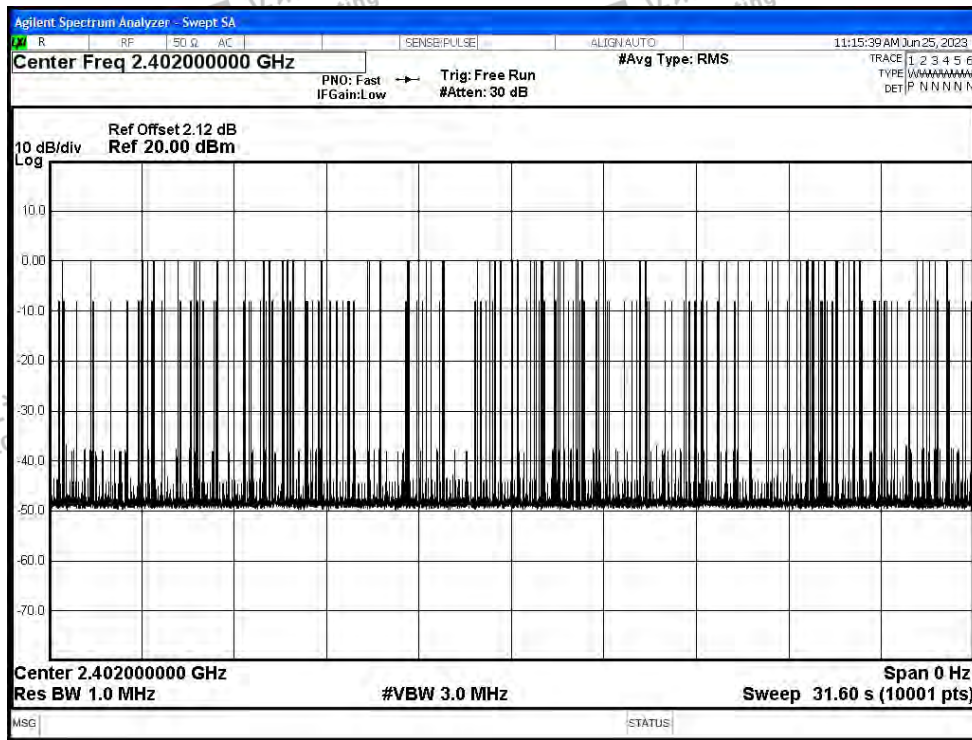


Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant1 One Burst

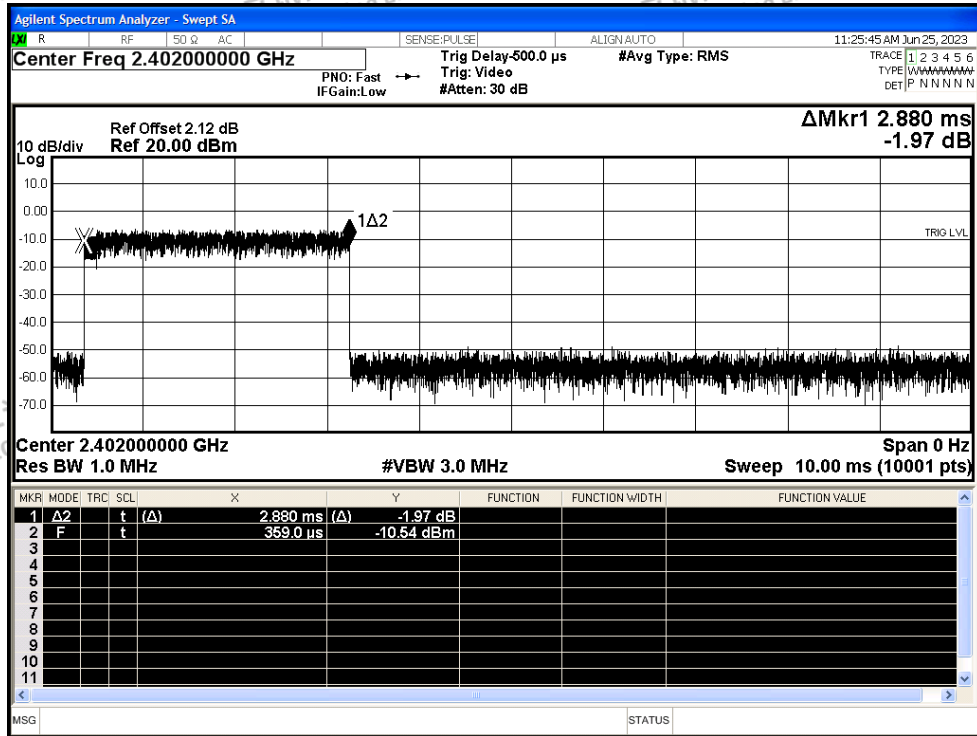


Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated

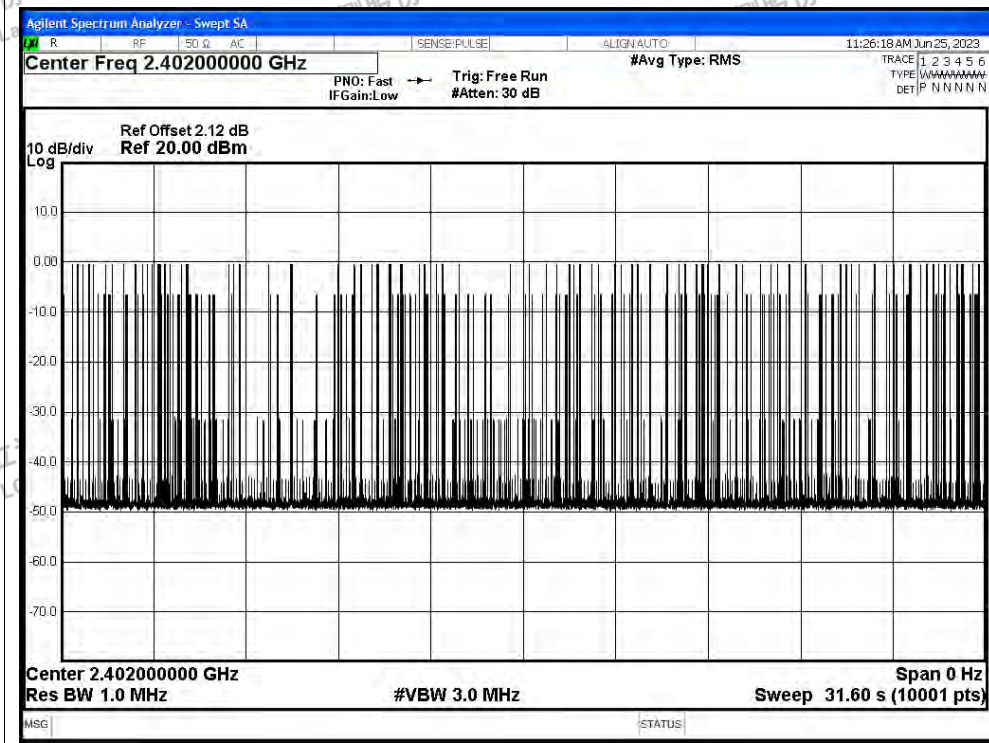




Dwell NVNT 2-DH5 2402MHz Ant1 One Burst

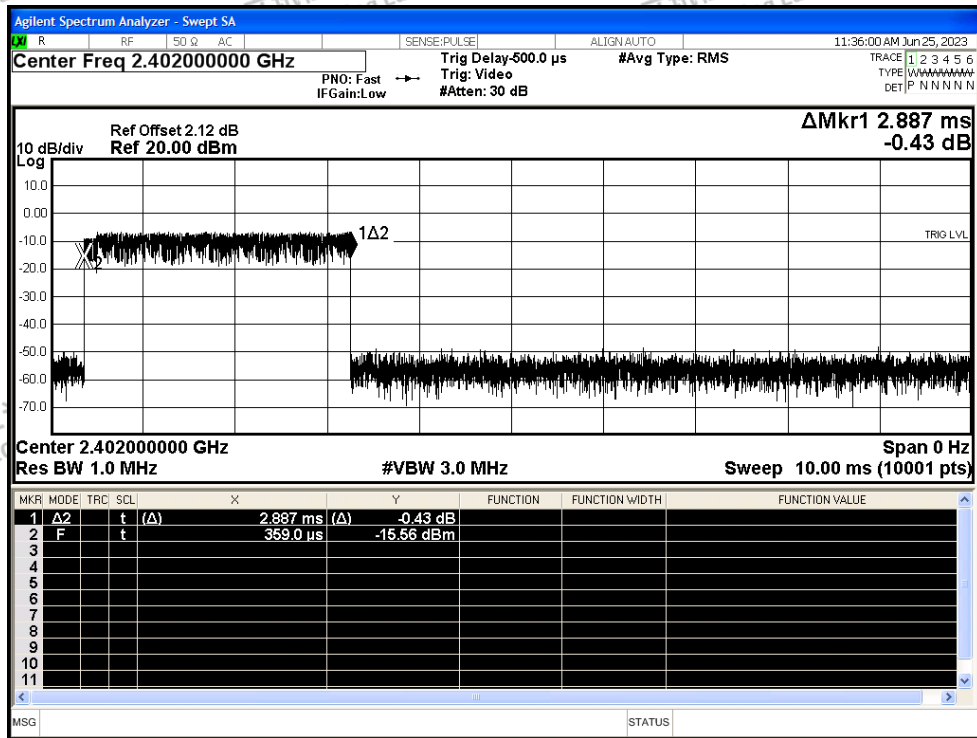


Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated

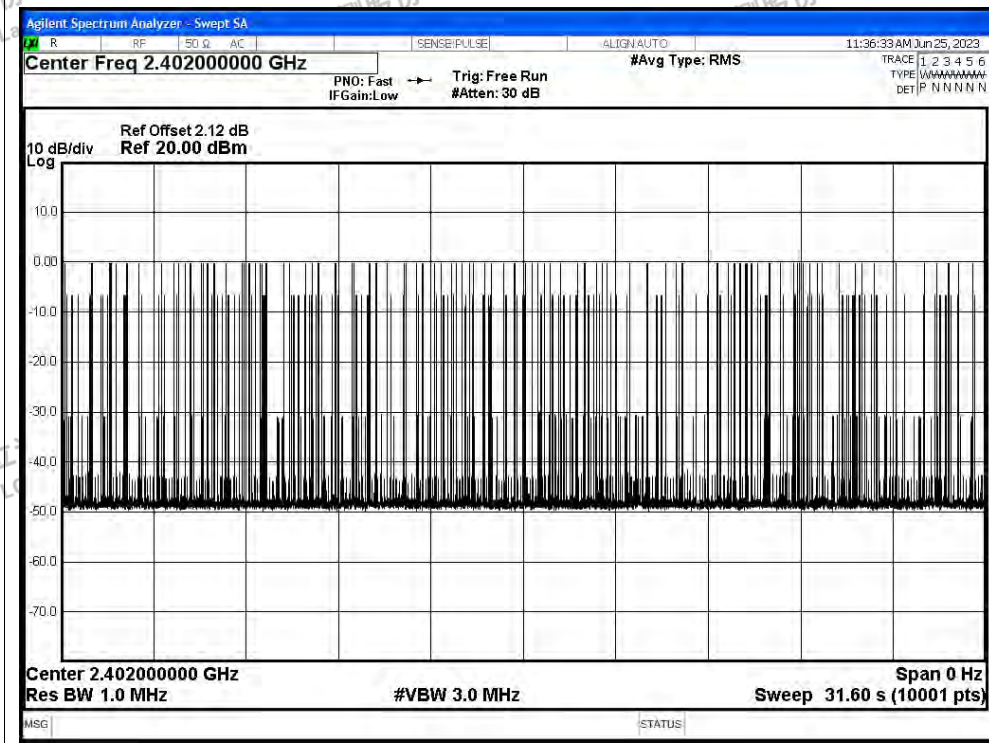




Dwell NVNT 3-DH5 2402MHz Ant1 One Burst



Dwell NVNT 3-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
NVNT	3-DH5	Ant1	79	15	Pass

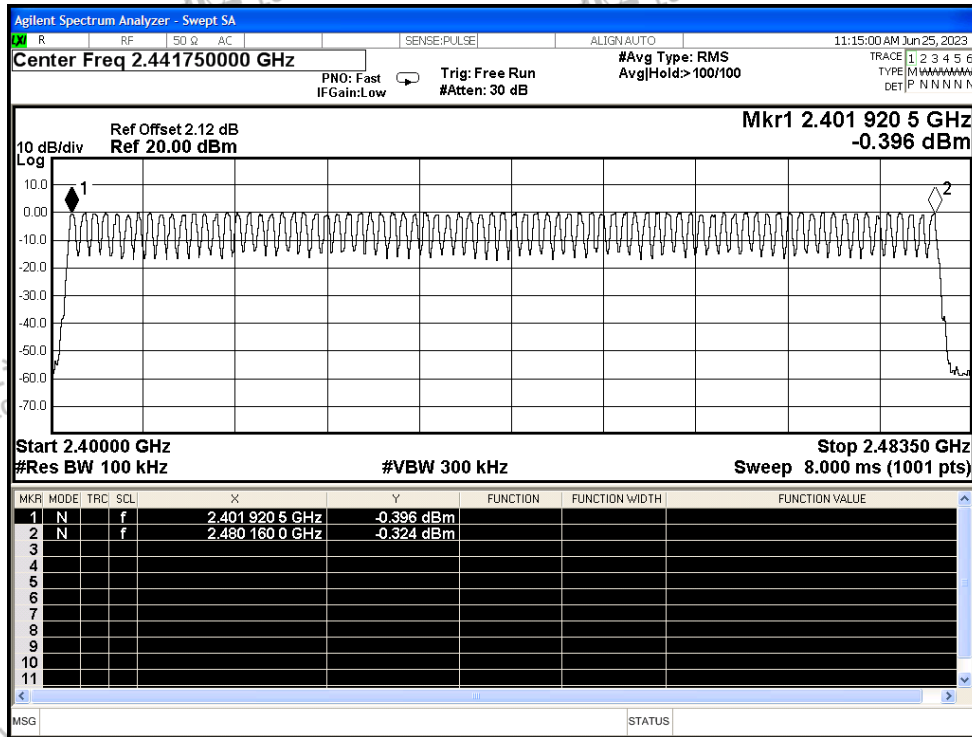


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Scan code to check authenticity

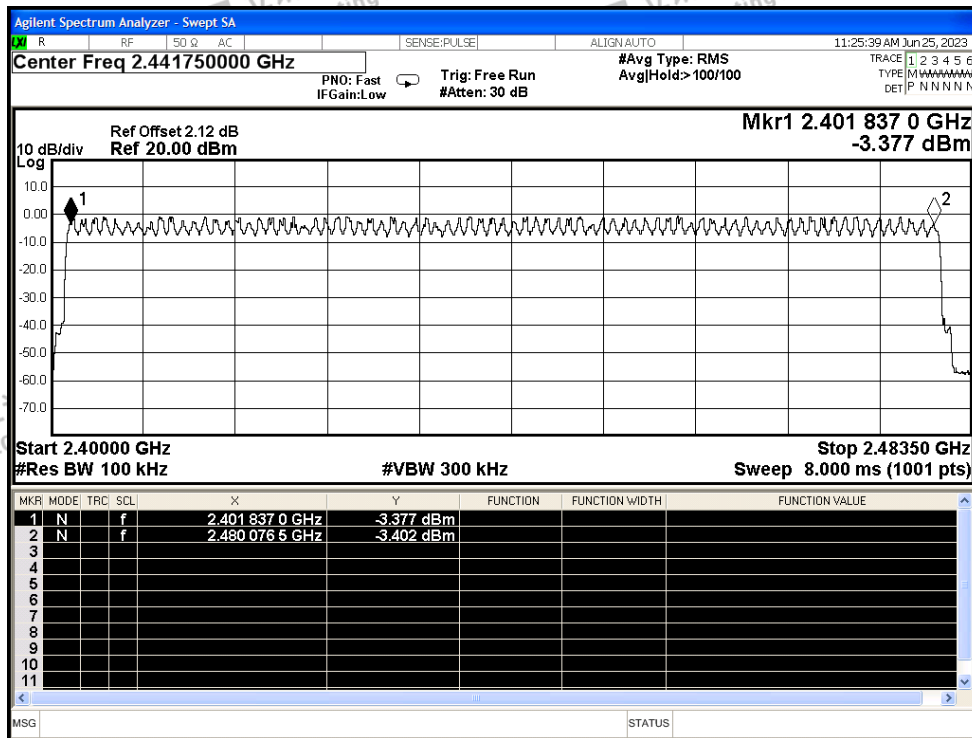


Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant1



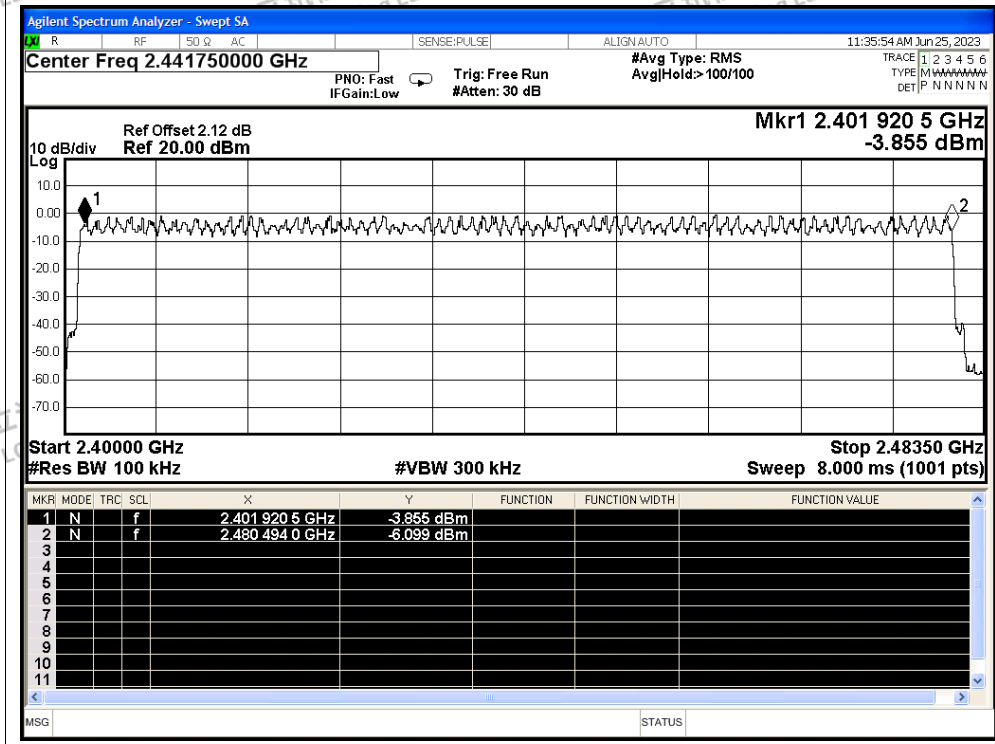
Hopping No. NVNT 2-DH5 2402MHz Ant1







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	-56.57	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-56.61	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-54.59	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-54.83	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-52.67	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-54.47	-20	Pass

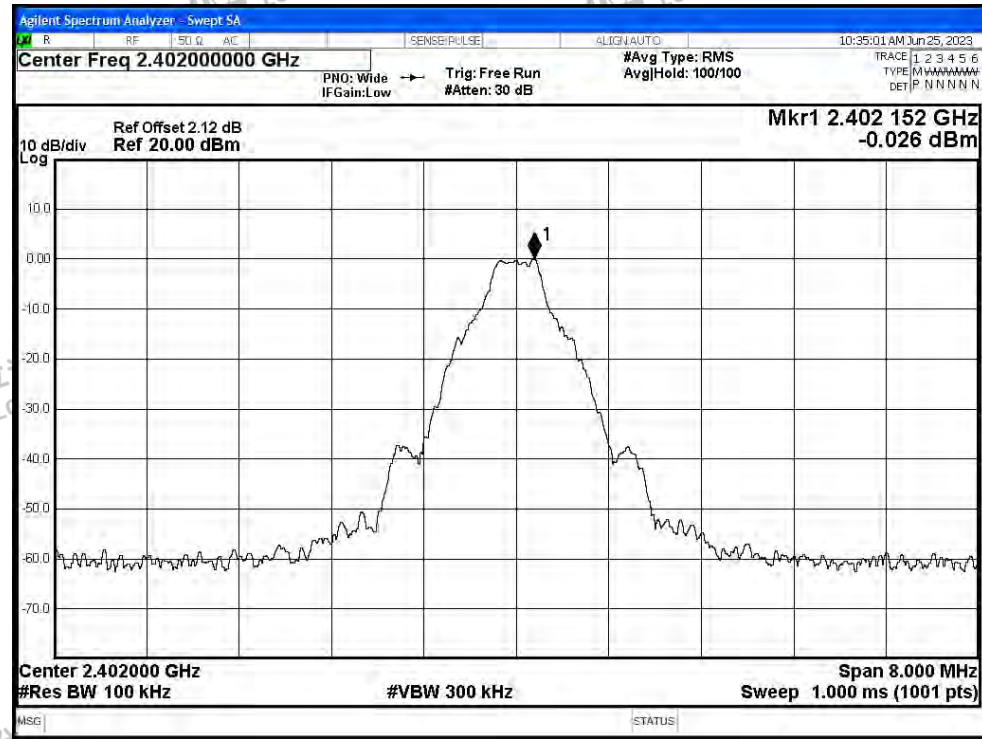


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Scan code to check authenticity

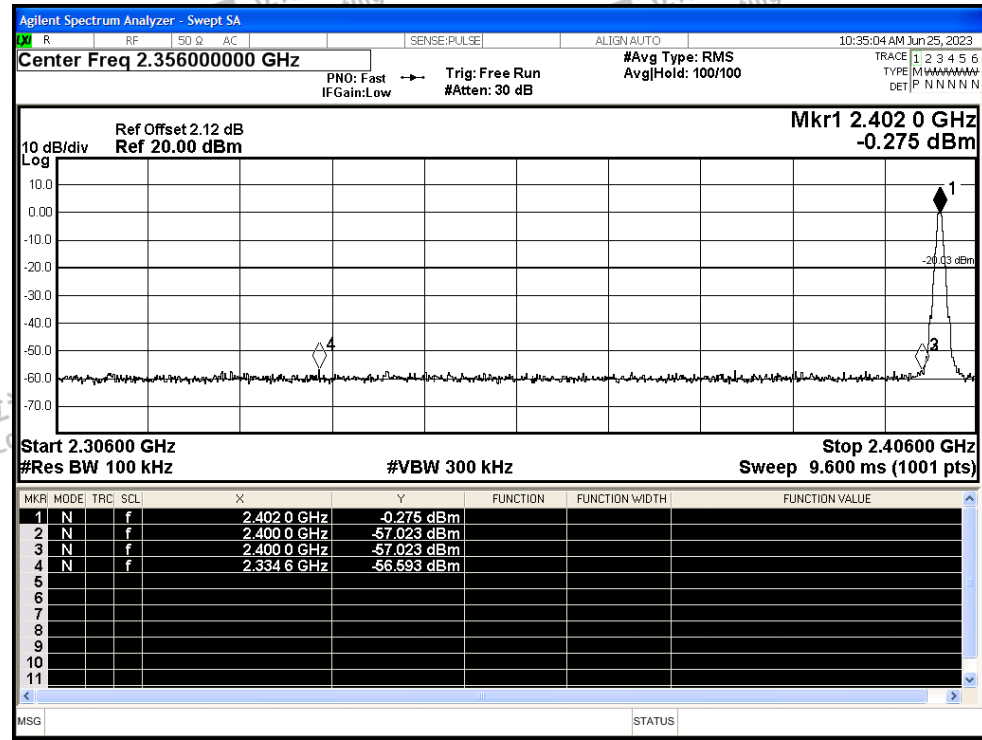


Test Graphs

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

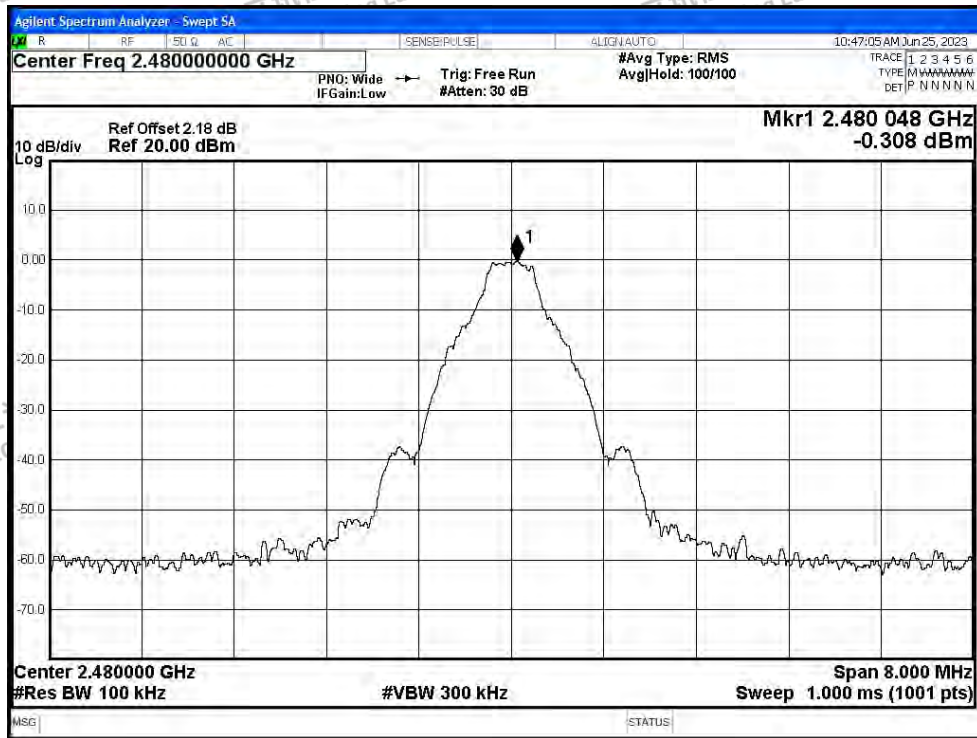


Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission

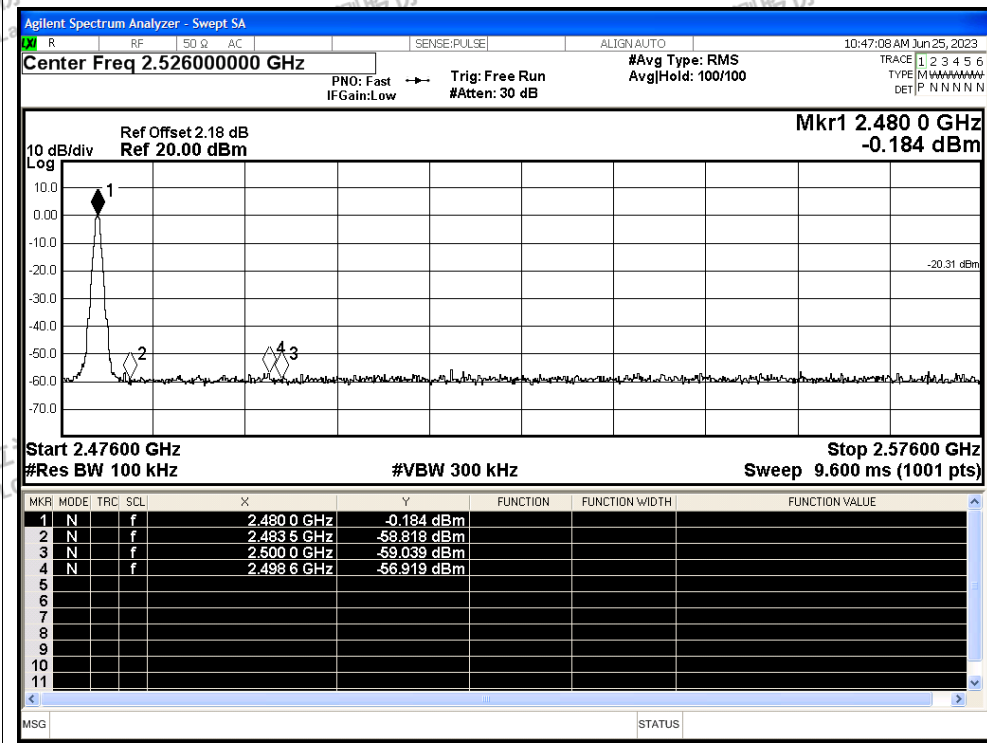




Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref

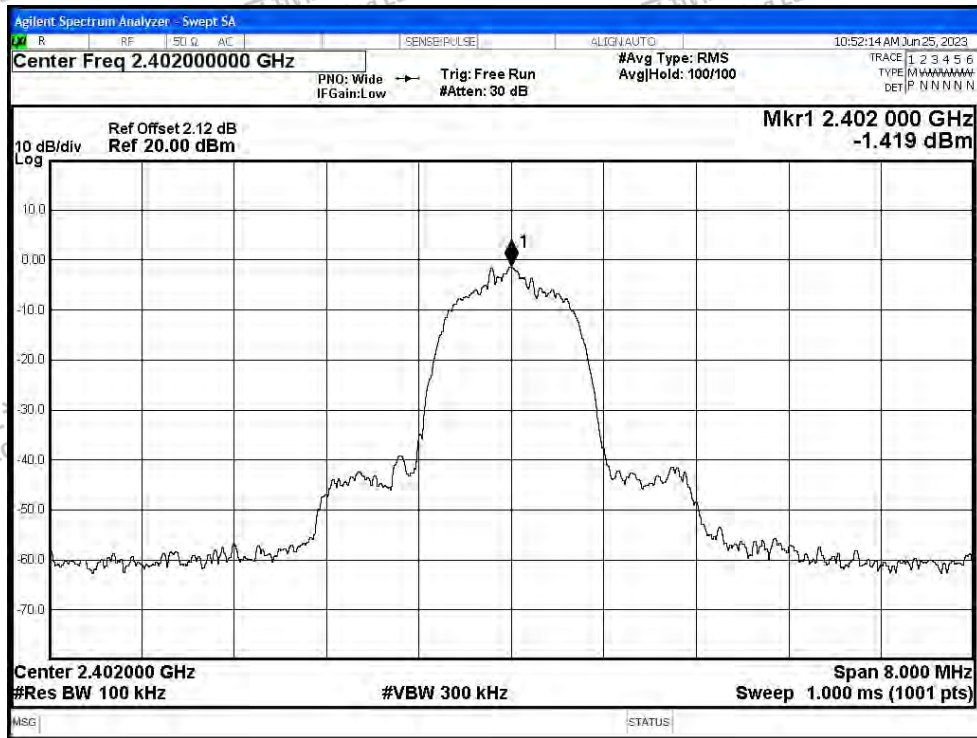


Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission

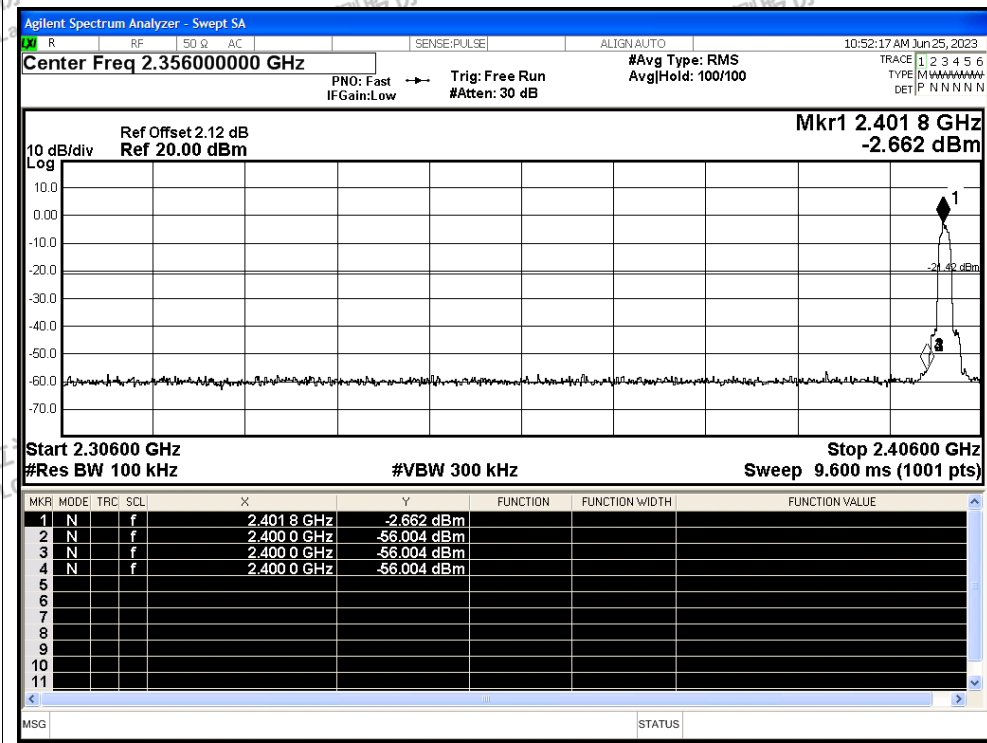




Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref



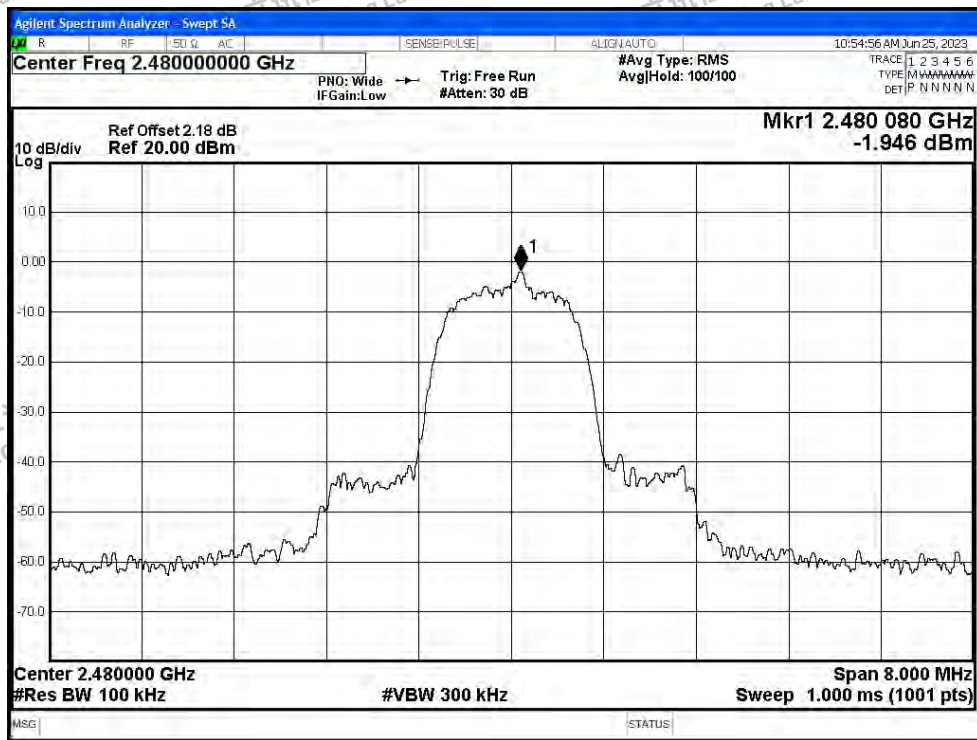
Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission



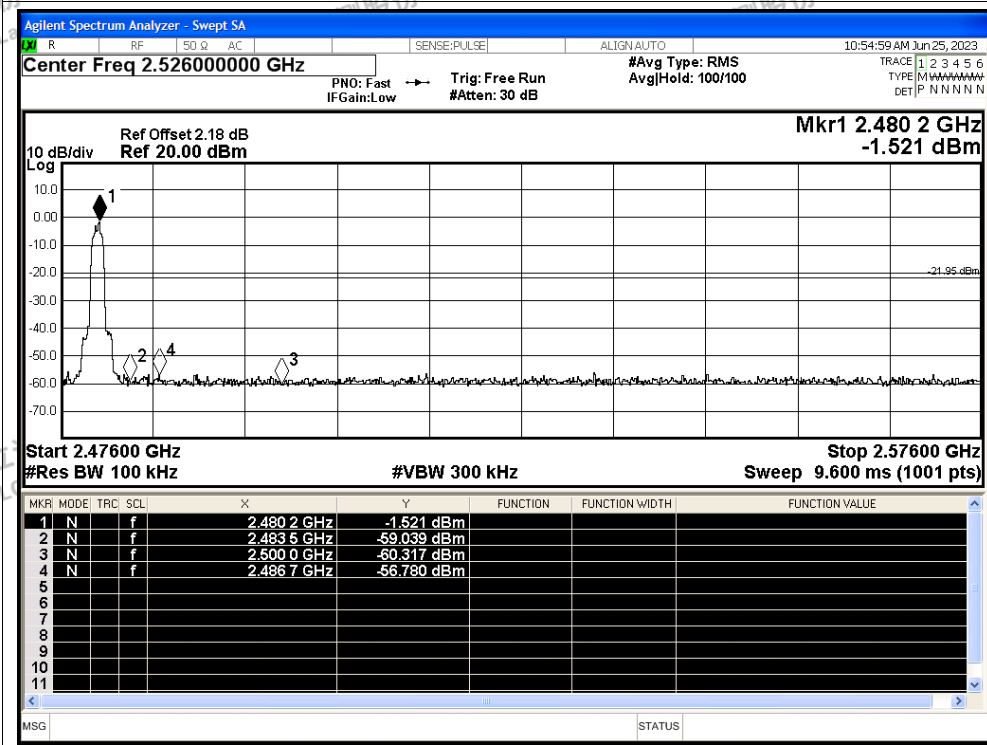




Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref

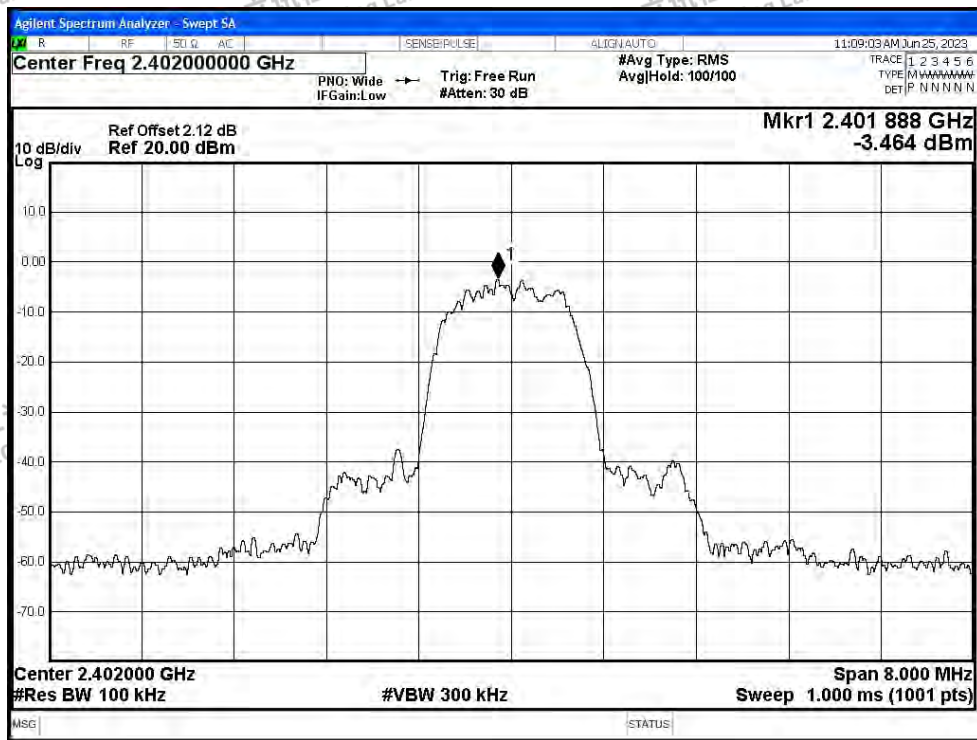


Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Emission

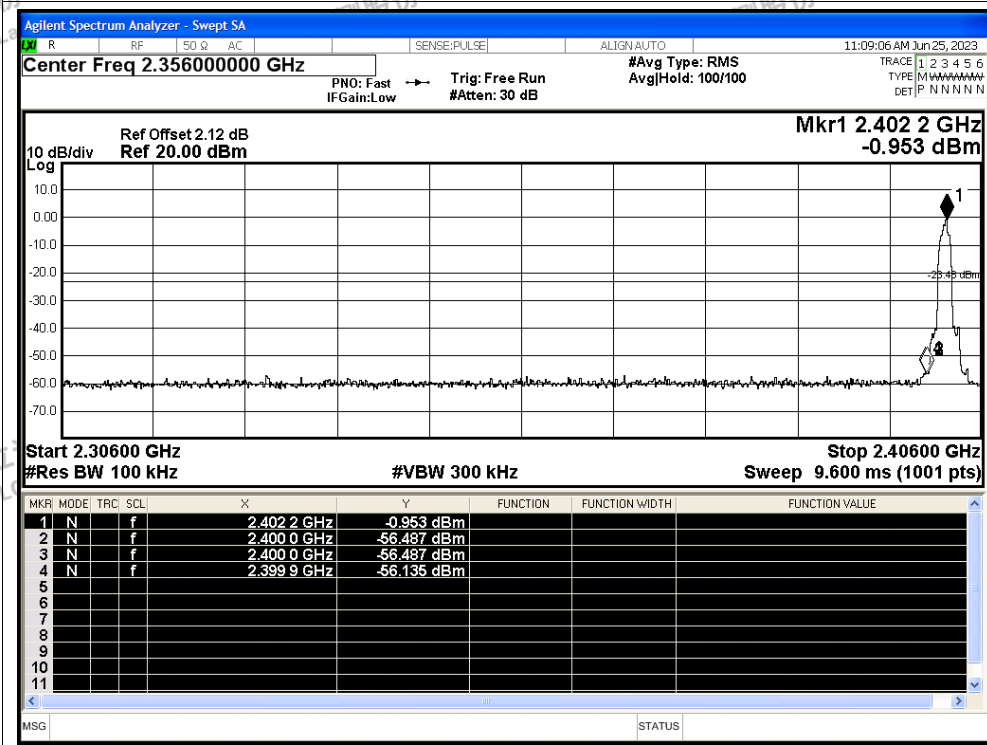




Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Ref



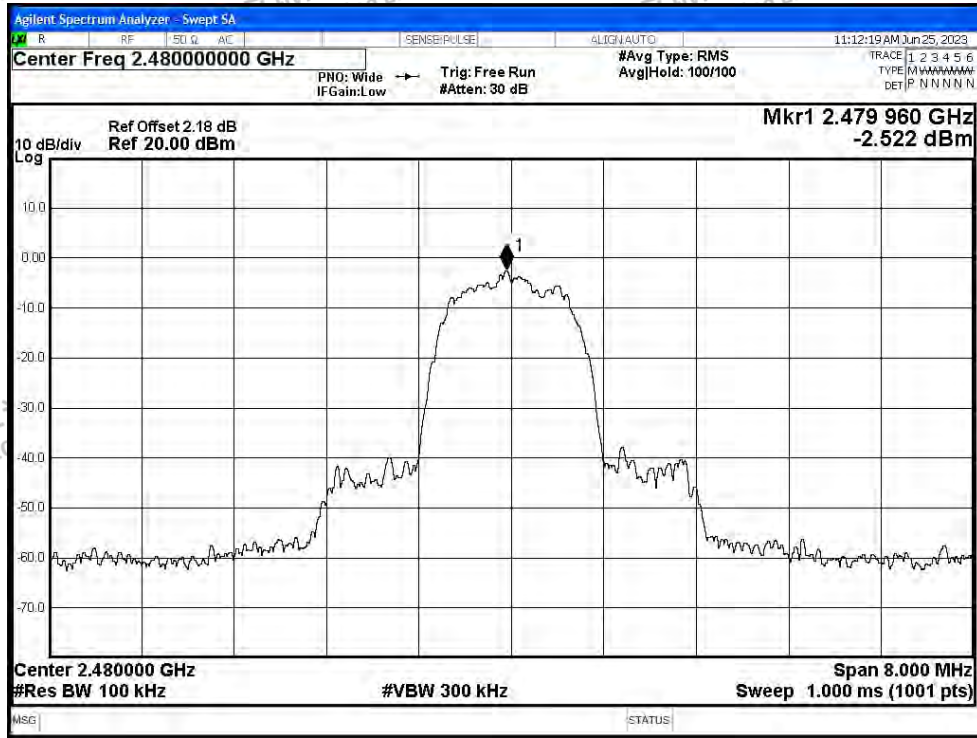
Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Emission



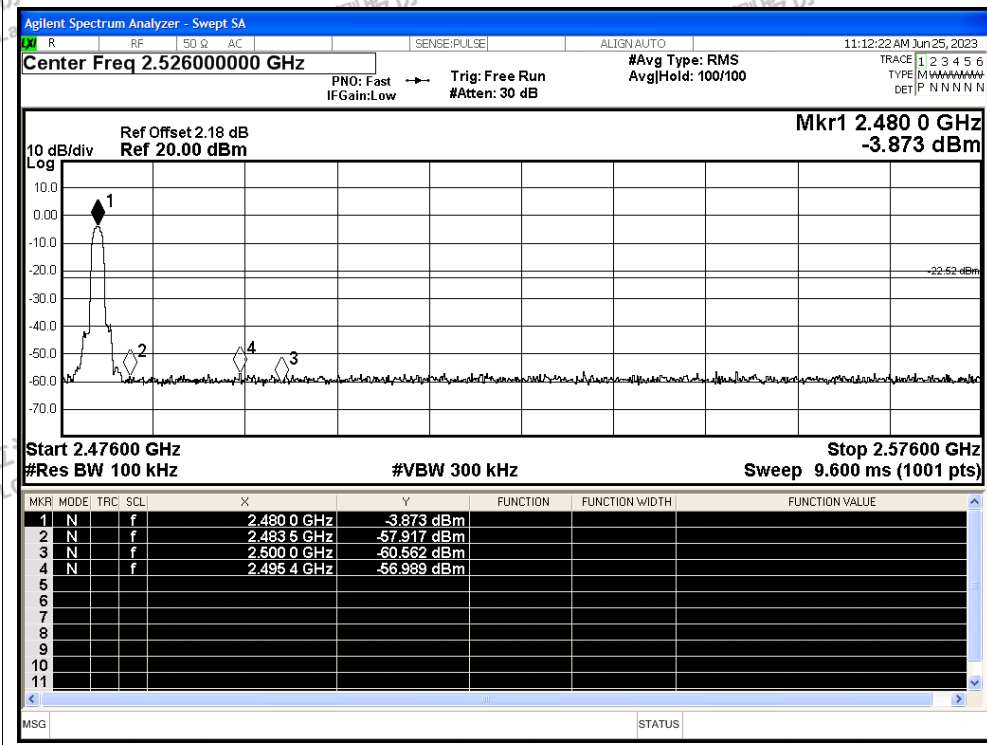




Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Ref



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	-55.77	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-56.04	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-53.1	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-54.48	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-53.07	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-55.03	-20	Pass

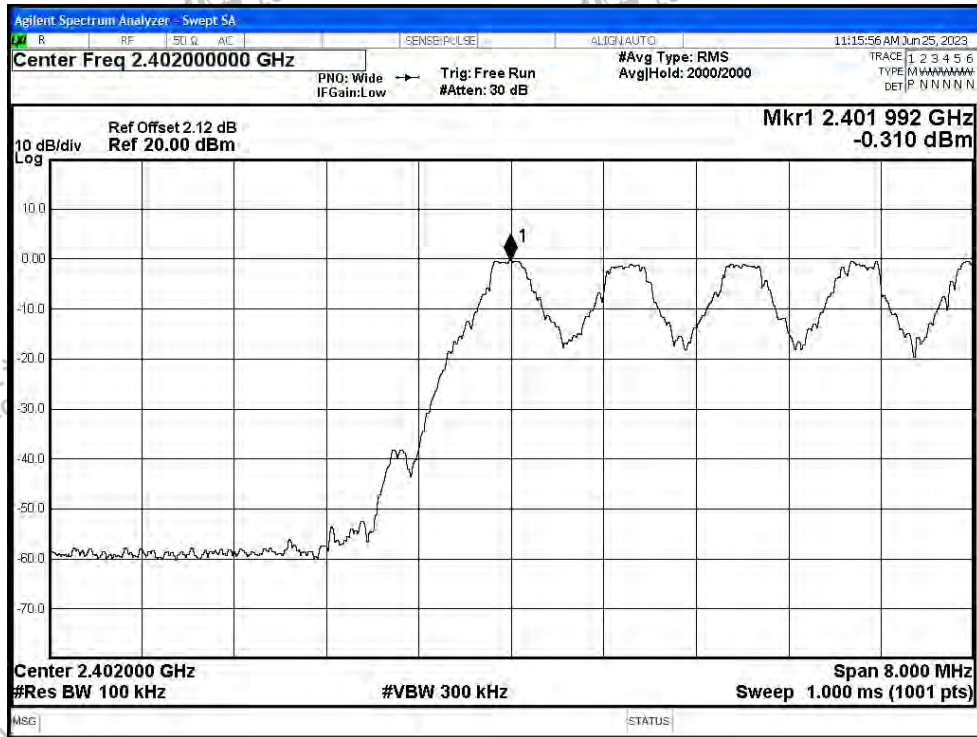


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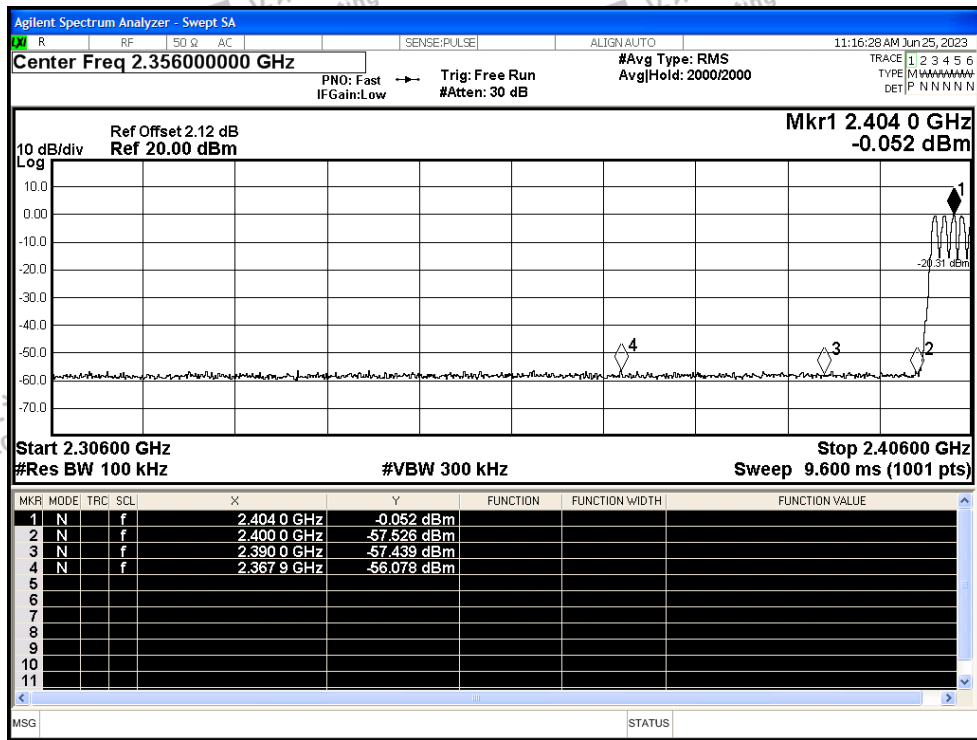


Test Graphs

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

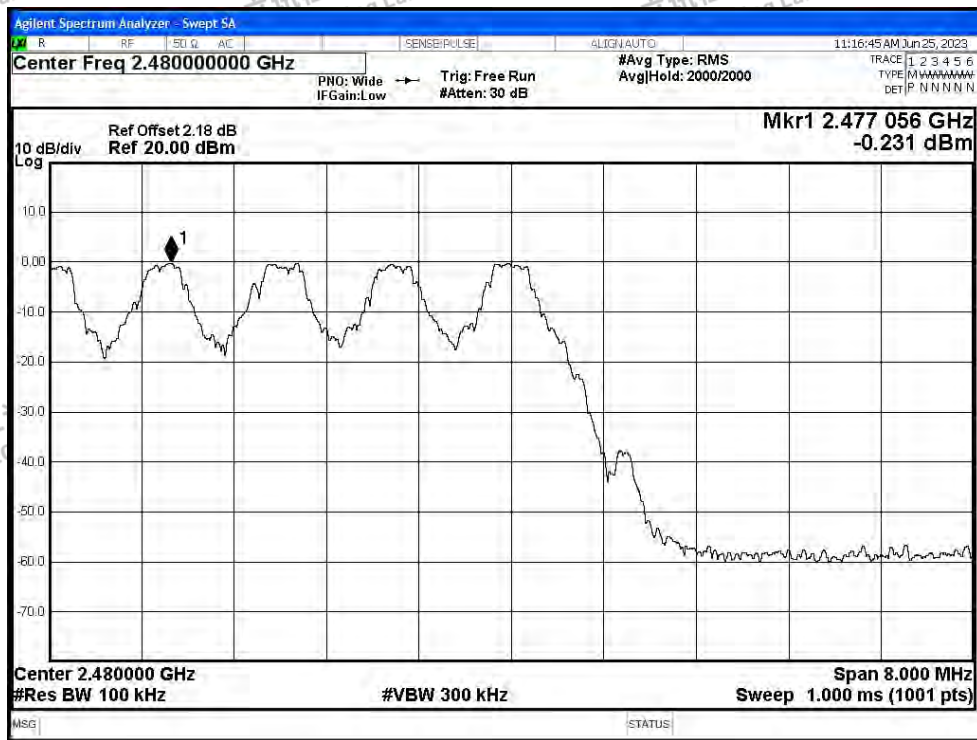


Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission

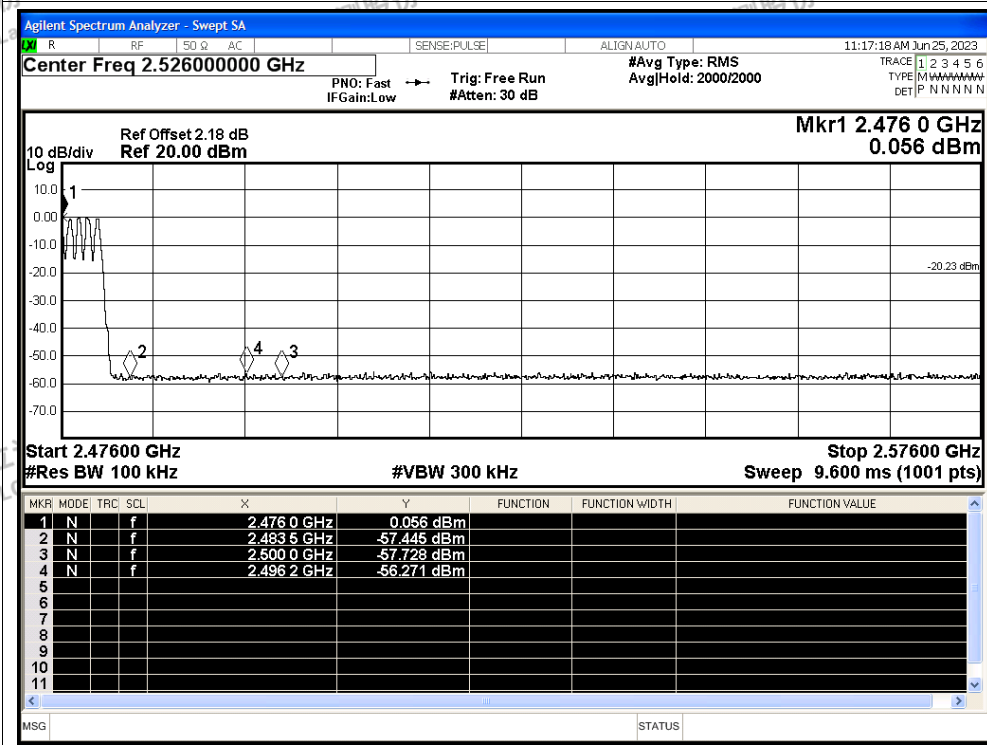




Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Ref



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

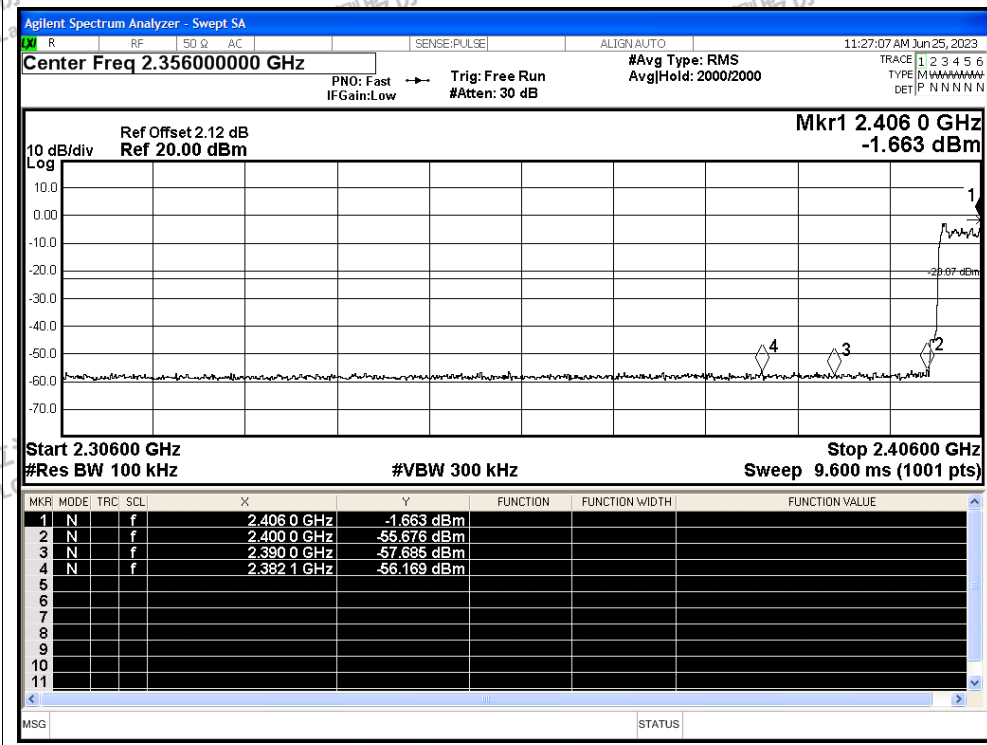




Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Ref



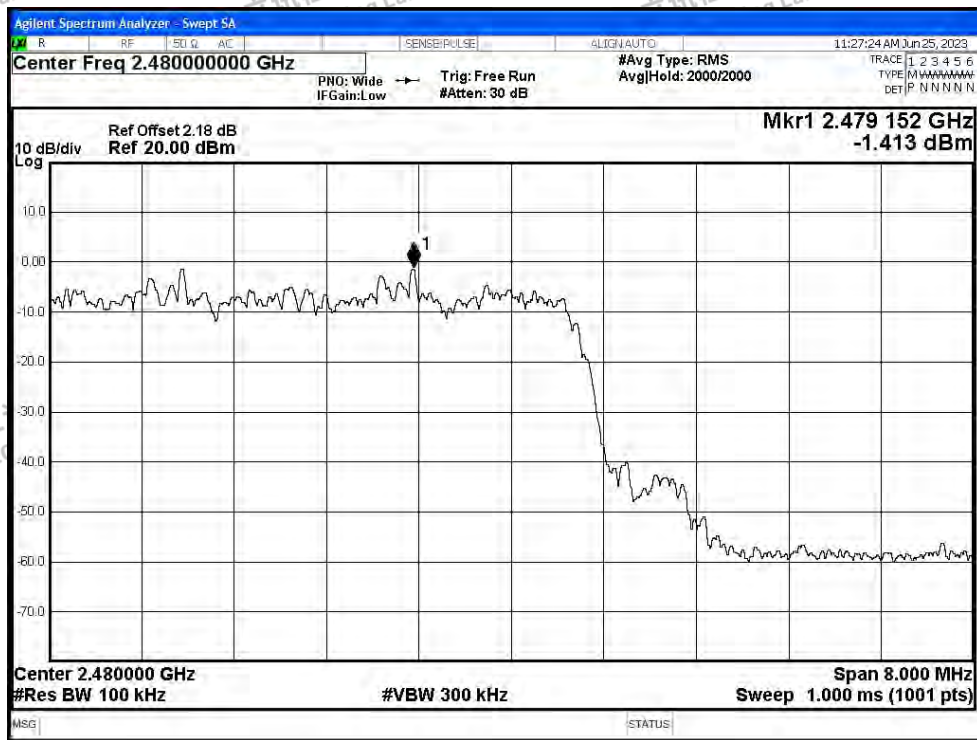
Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Emission



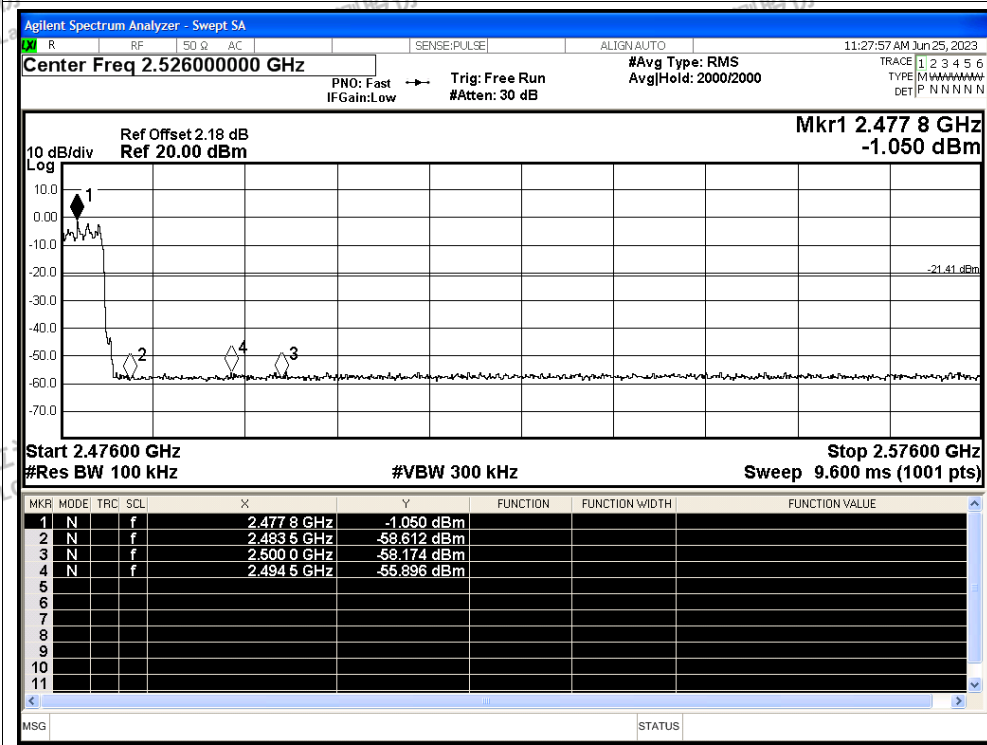




Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Ref



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

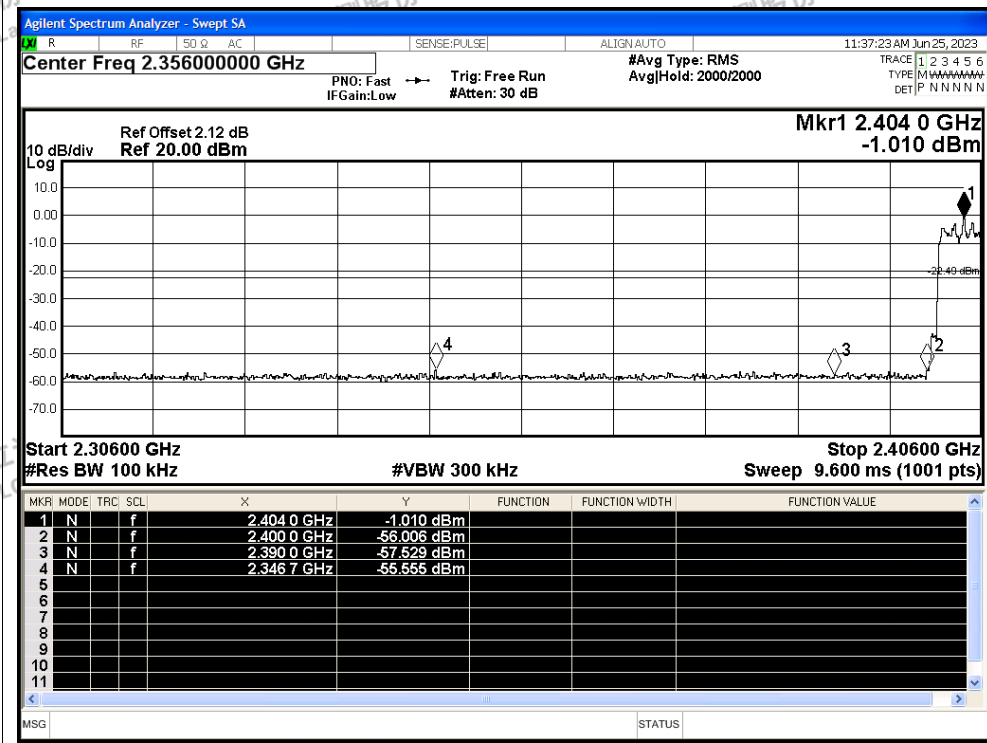




Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Ref



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



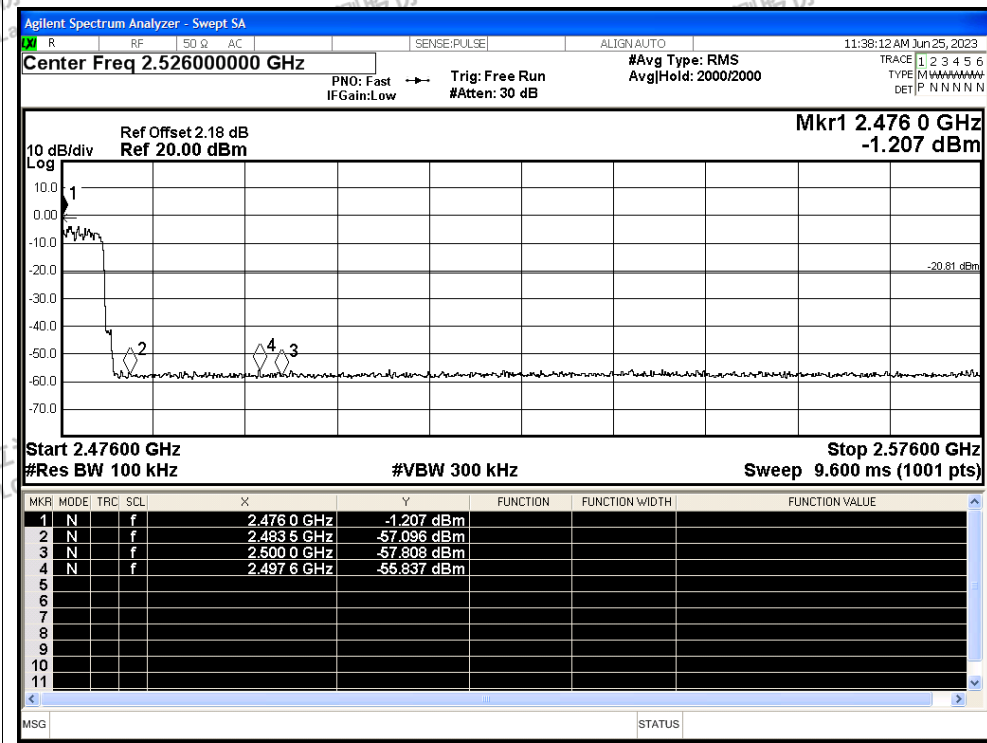




Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Ref



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	-55.09	-20	Pass
NVNT	1-DH5	2441	Ant1	-55.41	-20	Pass
NVNT	1-DH5	2480	Ant1	-54.96	-20	Pass
NVNT	2-DH5	2402	Ant1	-54.44	-20	Pass
NVNT	2-DH5	2441	Ant1	-53.4	-20	Pass
NVNT	2-DH5	2480	Ant1	-54.38	-20	Pass
NVNT	3-DH5	2402	Ant1	-54.37	-20	Pass
NVNT	3-DH5	2441	Ant1	-52.72	-20	Pass
NVNT	3-DH5	2480	Ant1	-53.55	-20	Pass

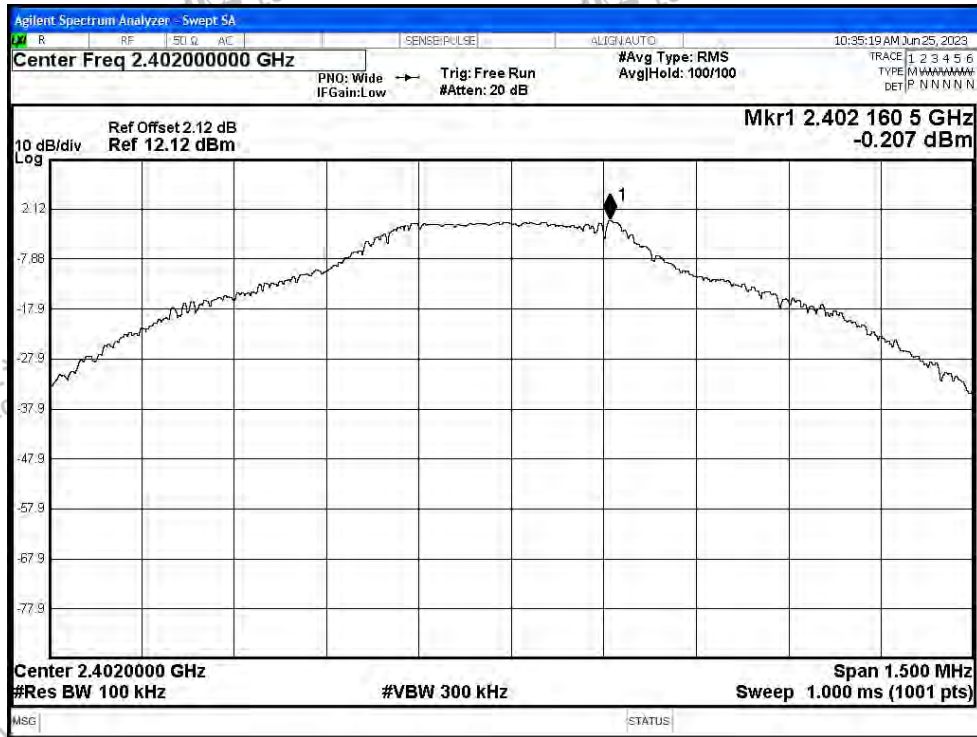


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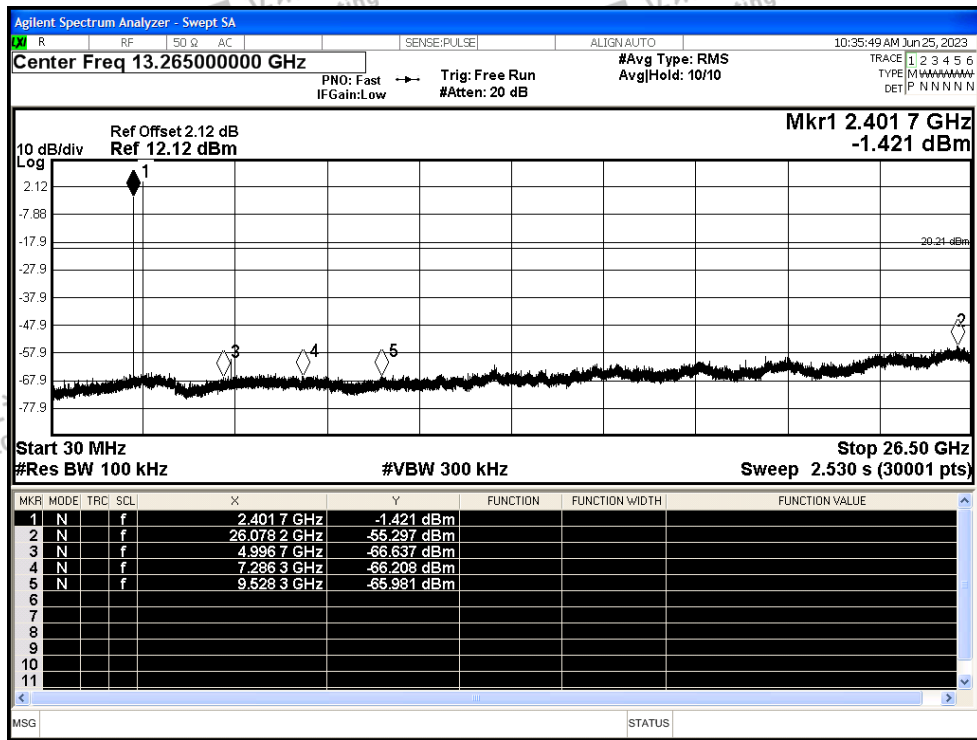


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref

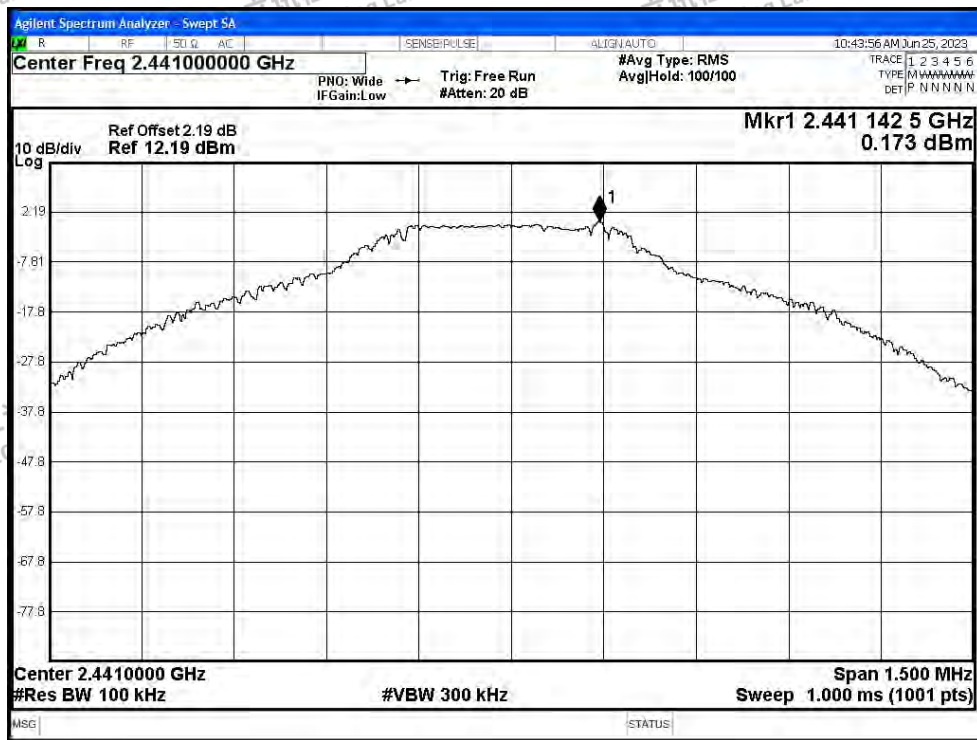


Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission

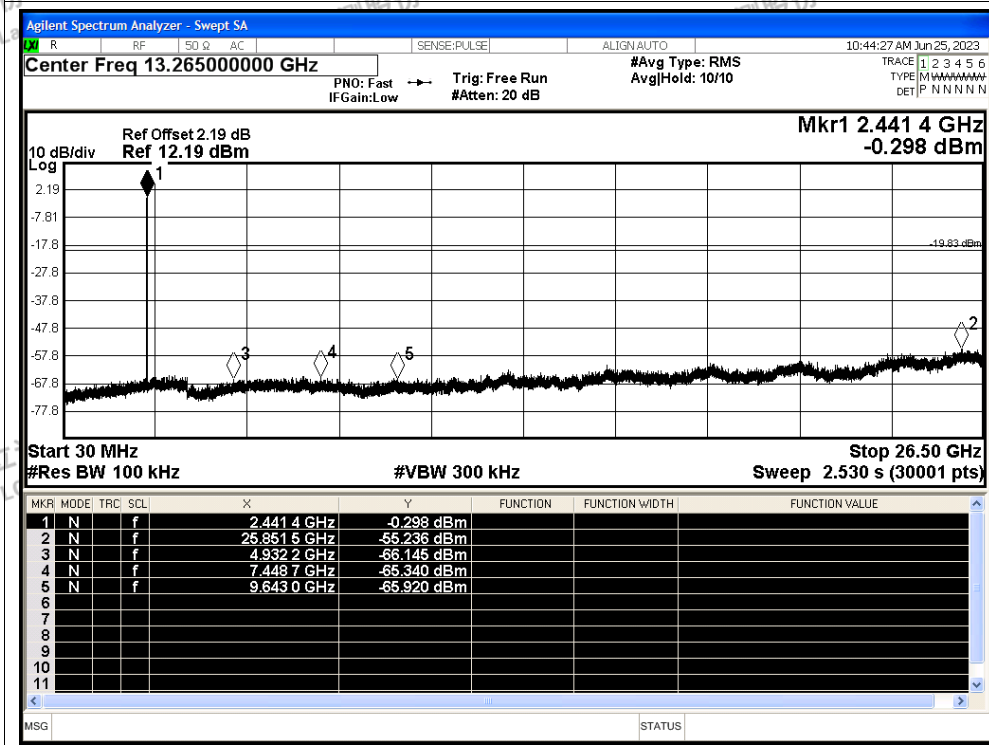




Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission

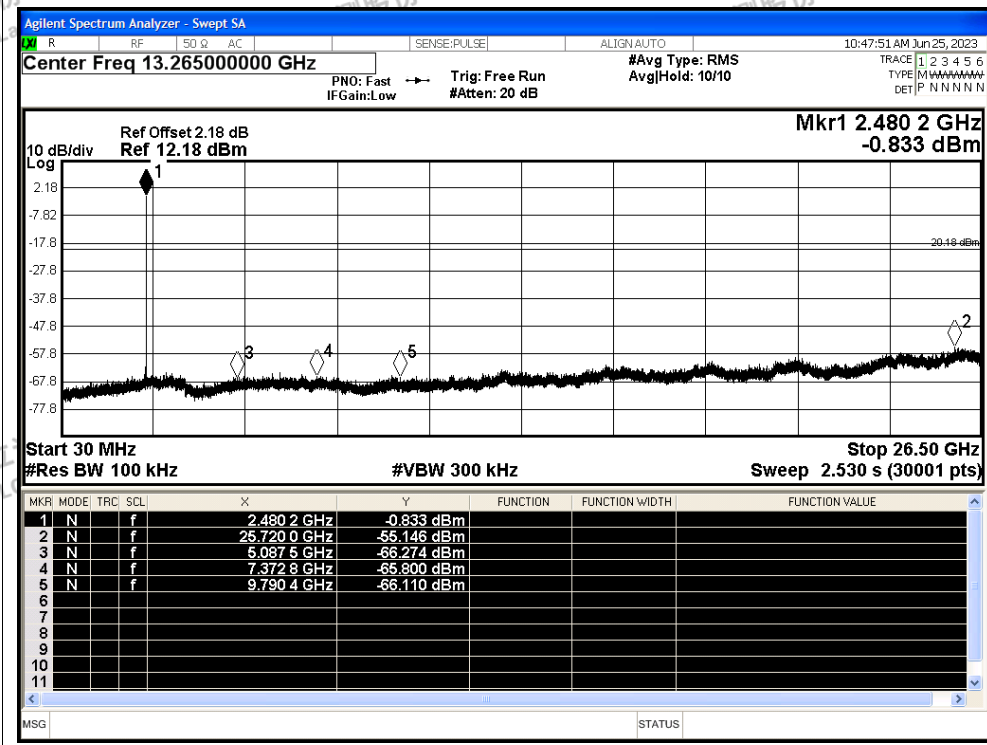




Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref



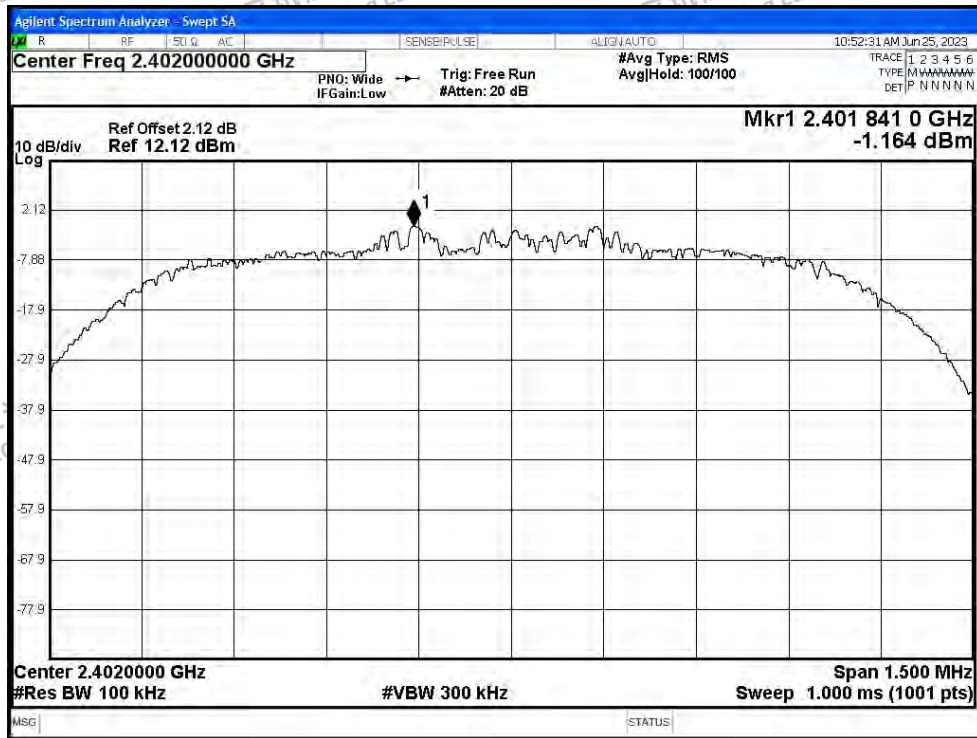
Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission



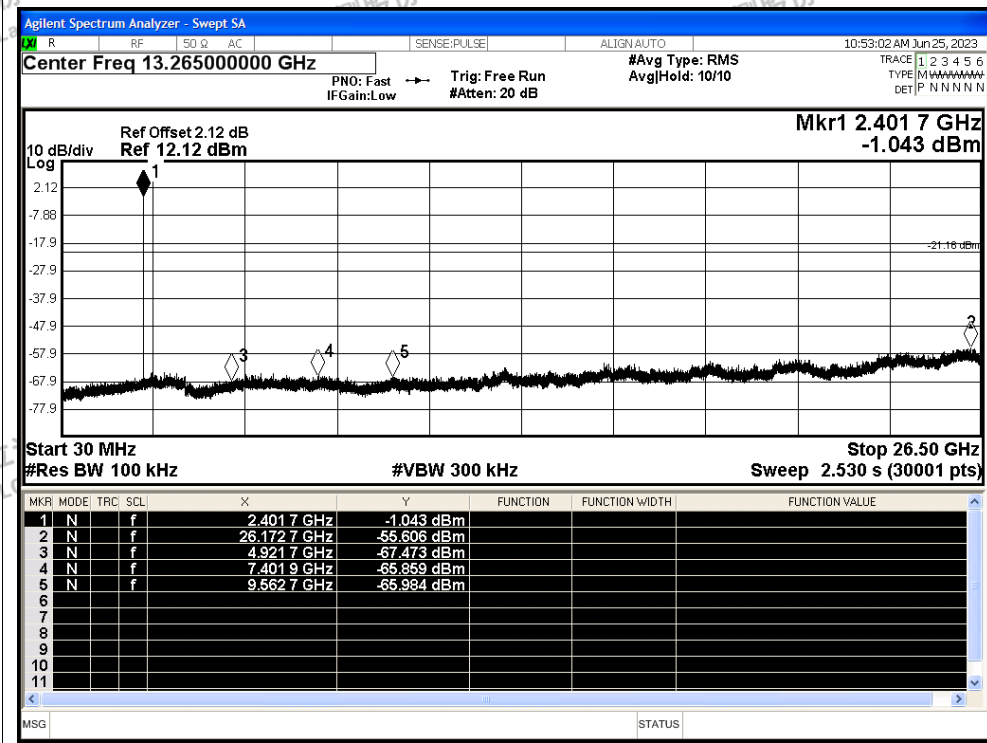




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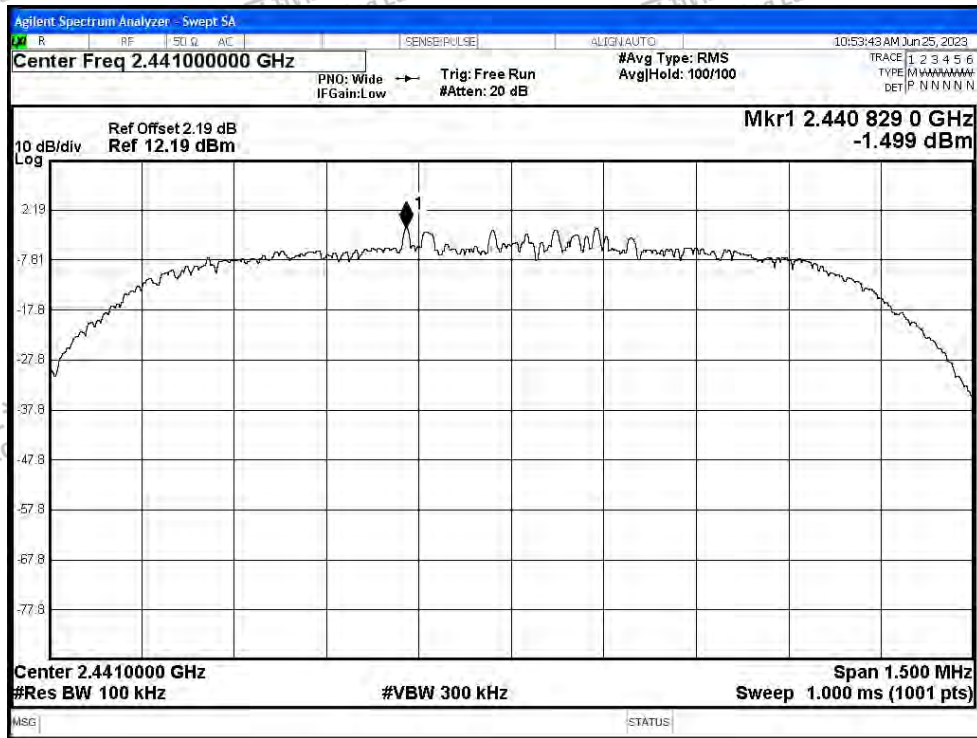


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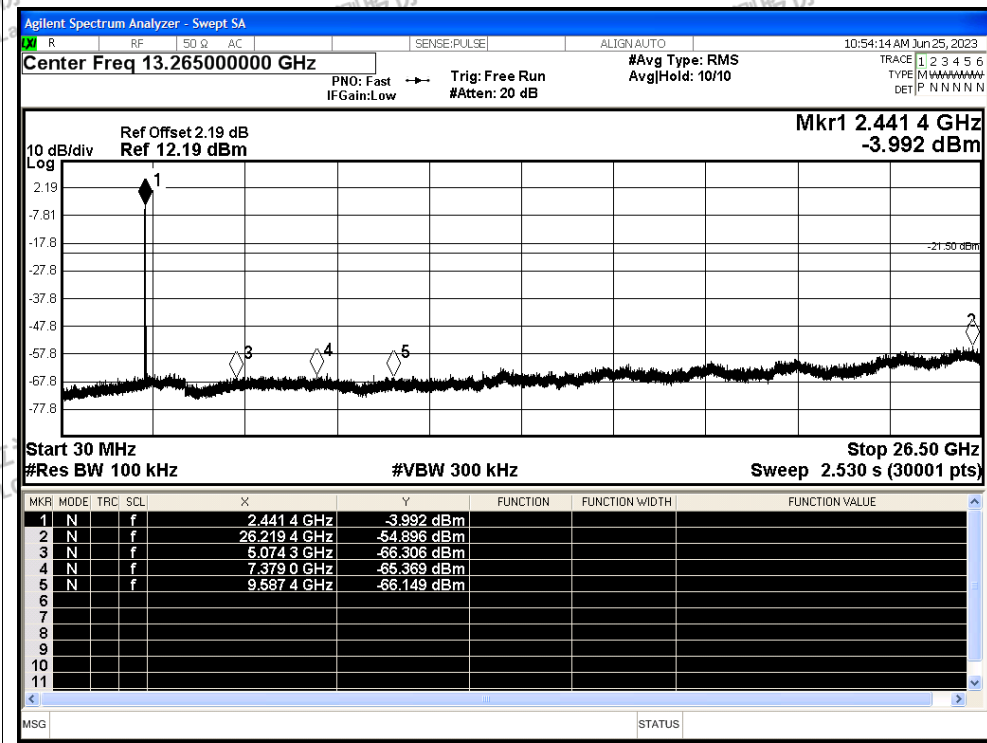




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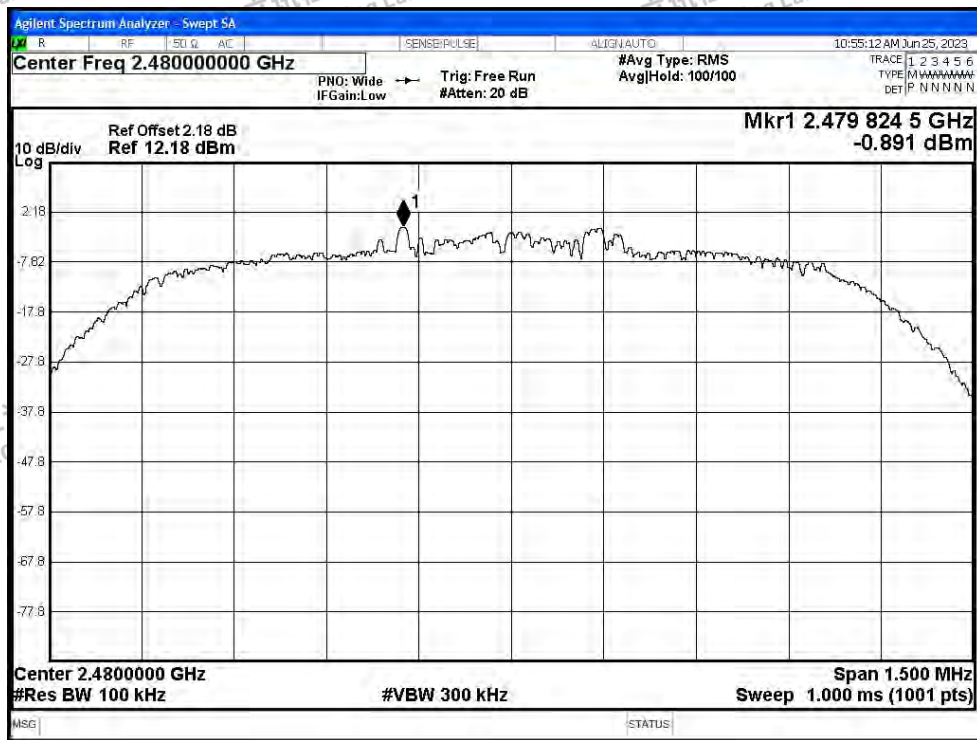


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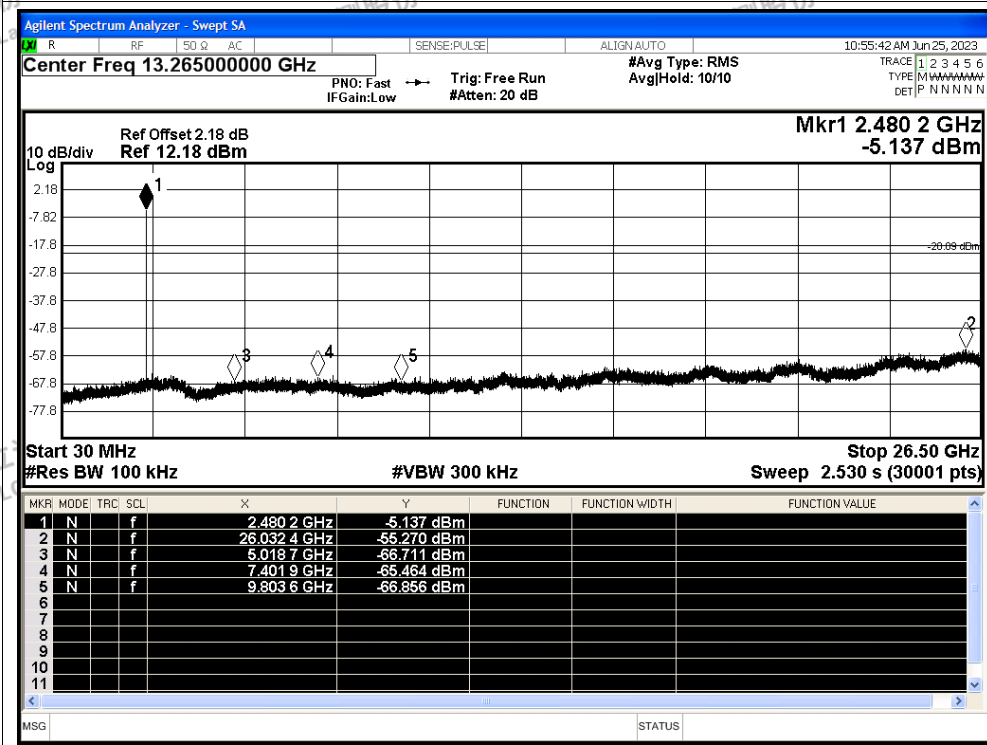




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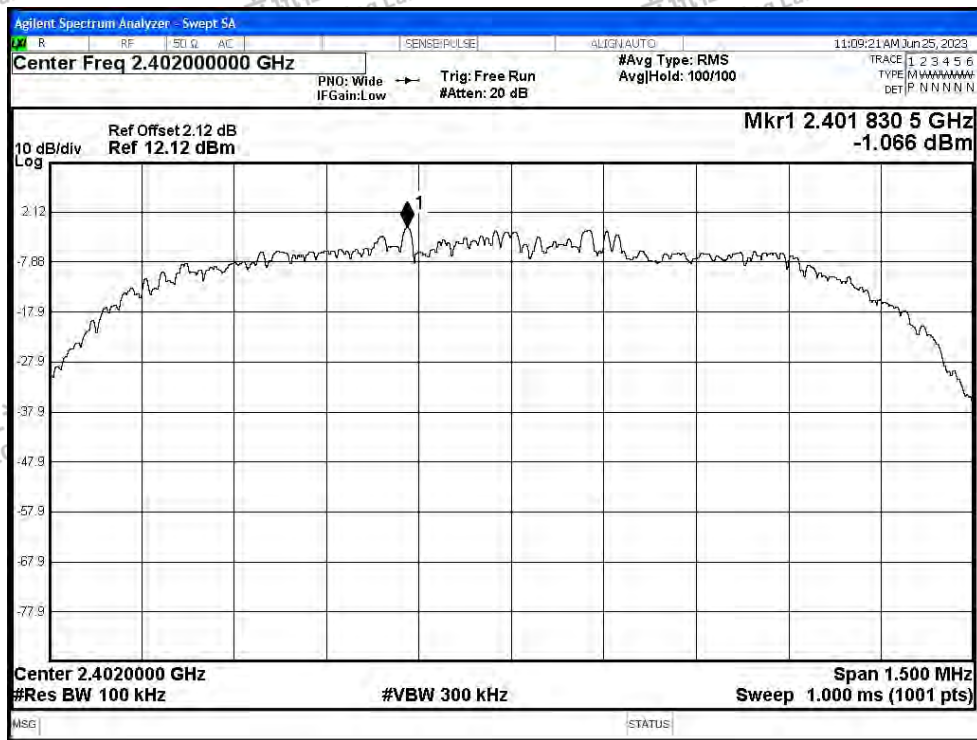


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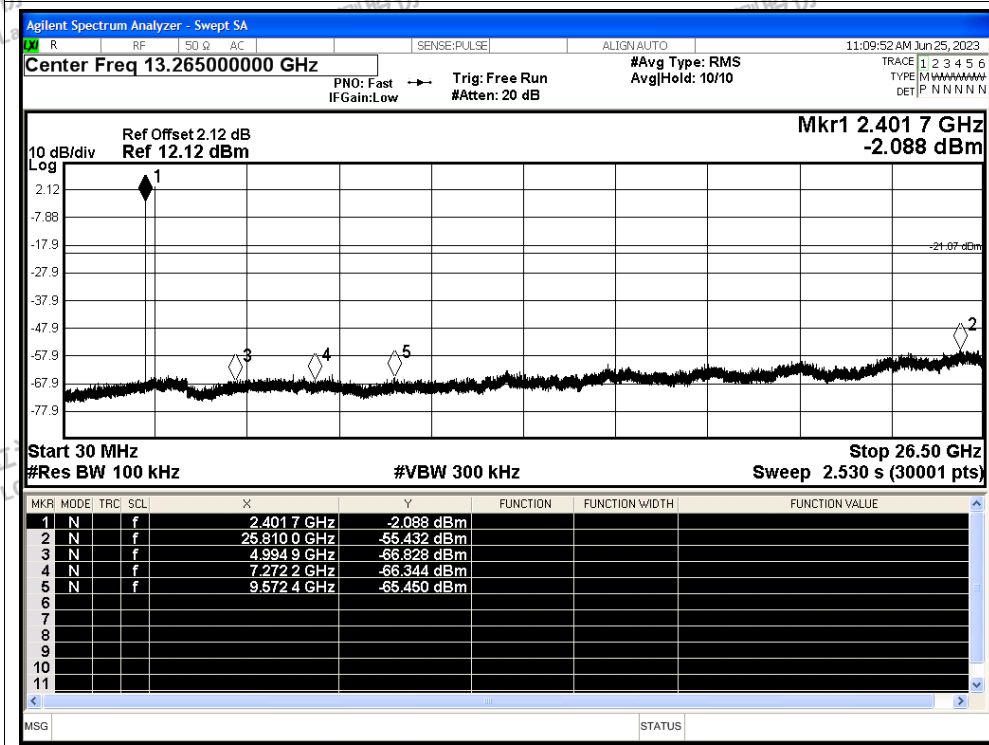




Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Ref



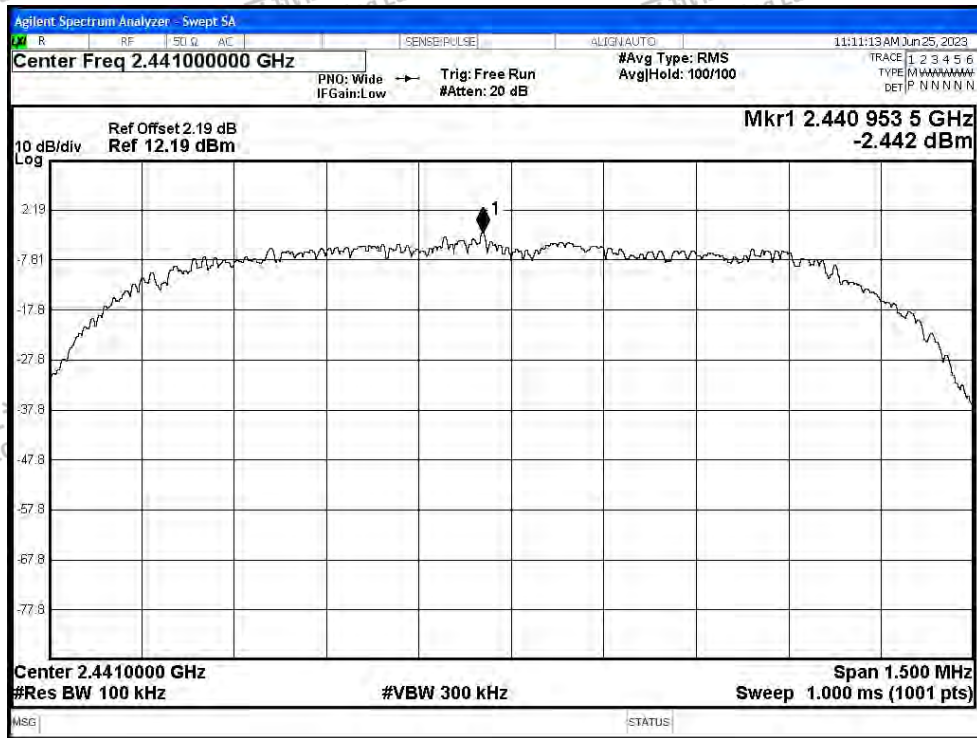
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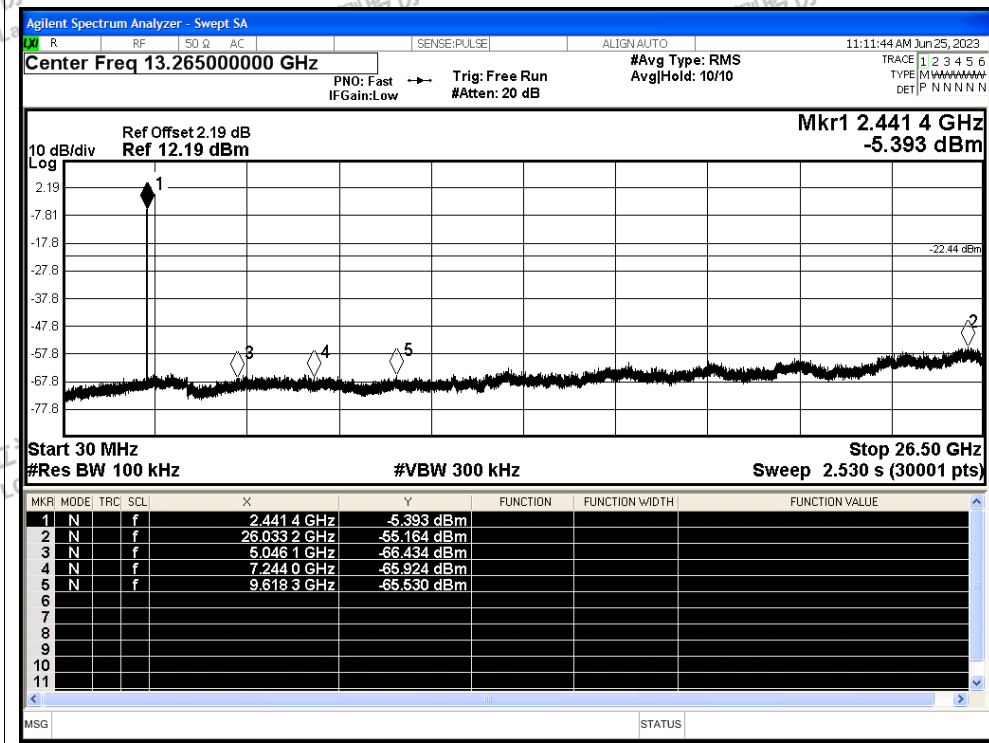




Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Emission



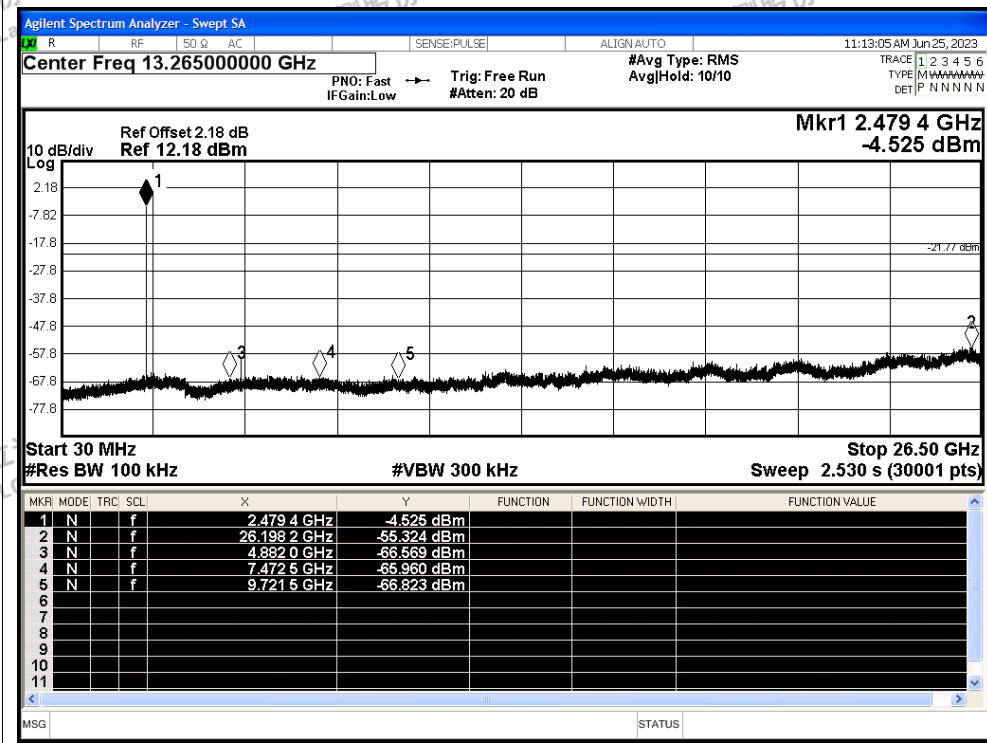




Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



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	-50.51	2	46.75	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-57.94	2	39.32	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2345.616	-47.29	2	49.97	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2384.016	-57.35	2	39.91	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-50.3	2	46.96	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-57.61	2	39.65	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-50.57	2	46.69	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-55.79	2	41.47	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2484.088	-46.78	2	50.48	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.512	-55.79	2	41.47	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-49.3	2	47.96	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-57.29	2	39.97	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-49.31	2	47.95	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-57.97	2	39.29	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2344.272	-47.64	2	49.62	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2389.968	-57.38	2	39.88	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-50.28	2	46.98	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-57.38	2	39.88	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-50.44	2	46.82	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-55.59	2	41.67	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2494.288	-46.86	2	50.4	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.512	-55.59	2	41.67	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-50.36	2	46.9	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-57.22	2	40.04	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-51.1	2	46.16	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-57.94	2	39.32	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2365.776	-47	2	50.26	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2366.736	-57.49	2	39.77	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-50.38	2	46.88	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-57.6	2	39.66	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-50.06	2	47.2	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-55.67	2	41.59	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2495.392	-46.85	2	50.41	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.512	-55.67	2	41.59	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-48.46	2	48.8	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-57.26	2	40	Average	54	Pass

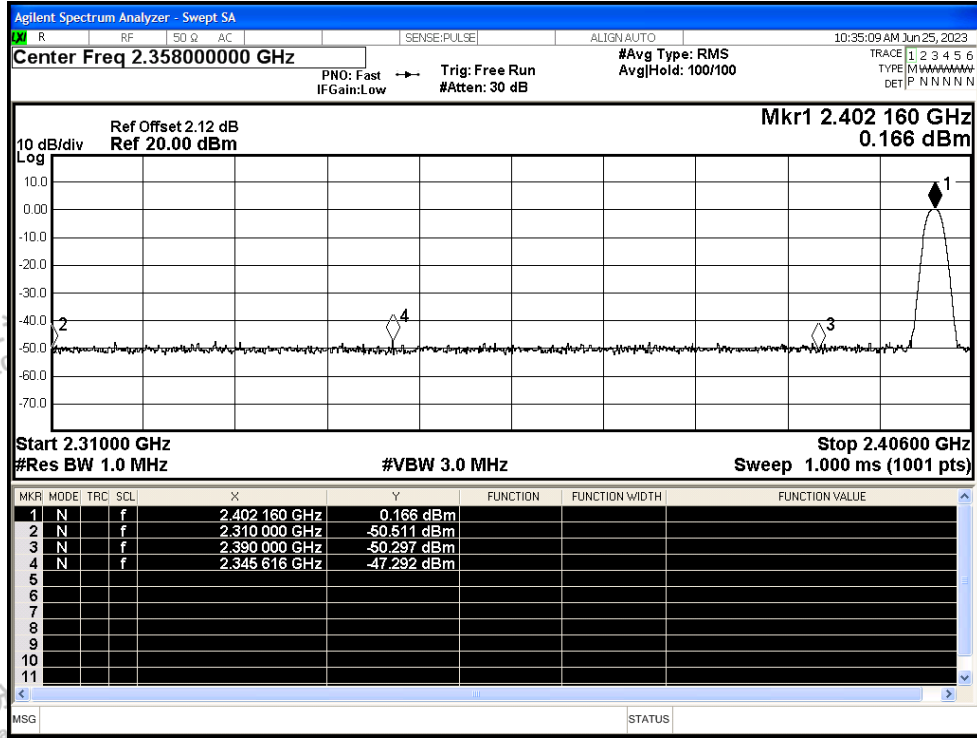


Shenzhen LCS Compliance Testing Laboratory Ltd.  
 Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China  
 Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com  
 Scan code to check authenticity

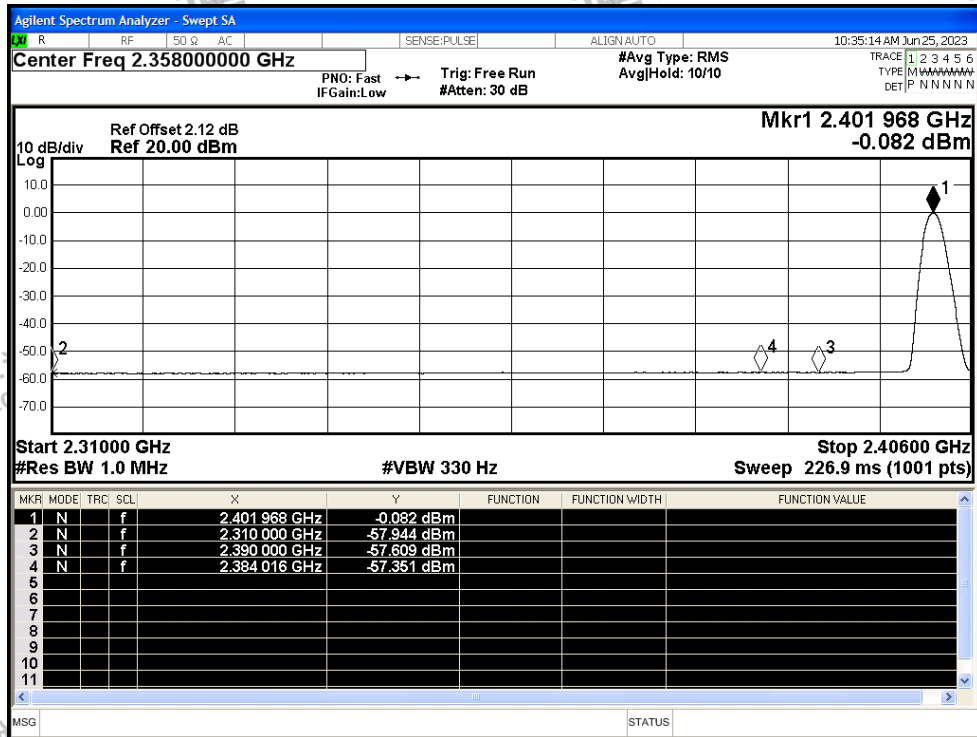


Test Graphs

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

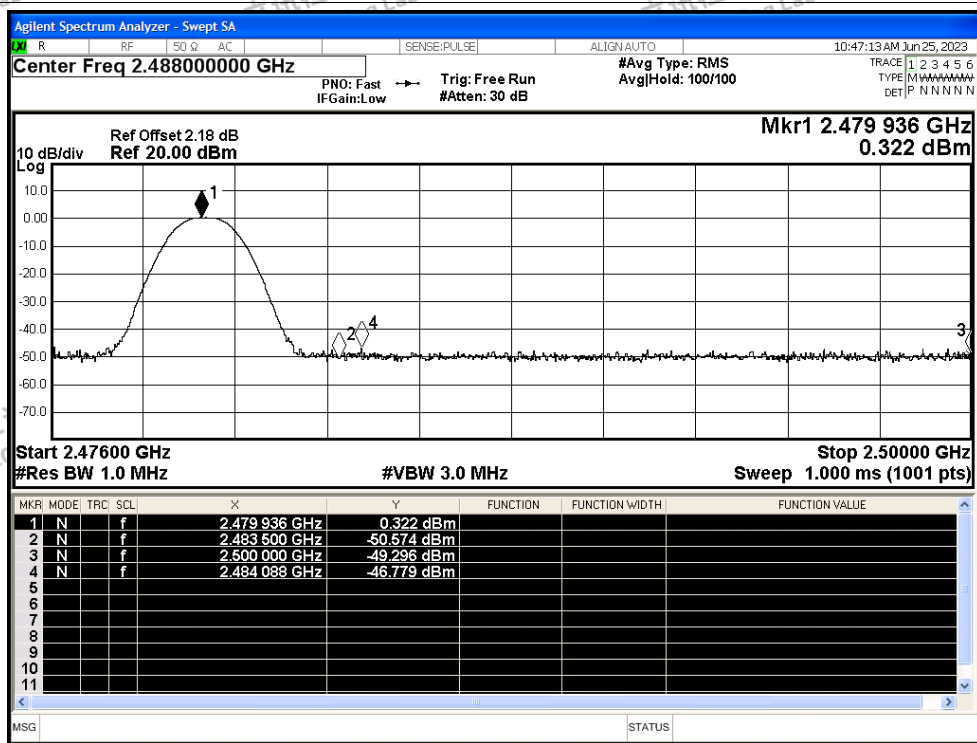


Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Average

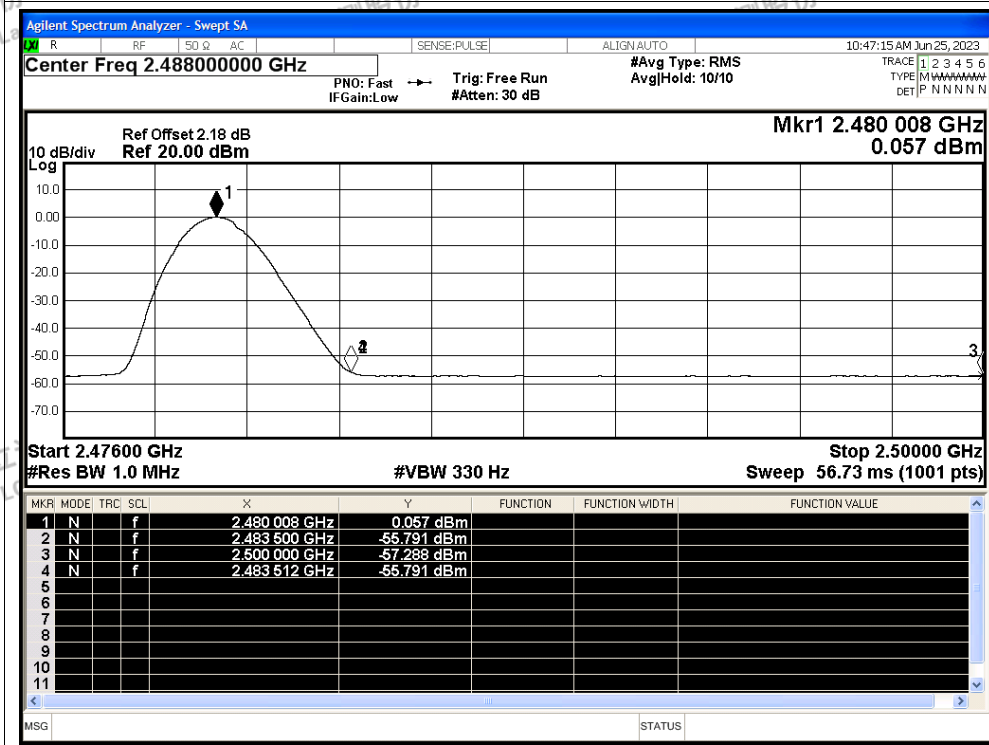




Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Peak

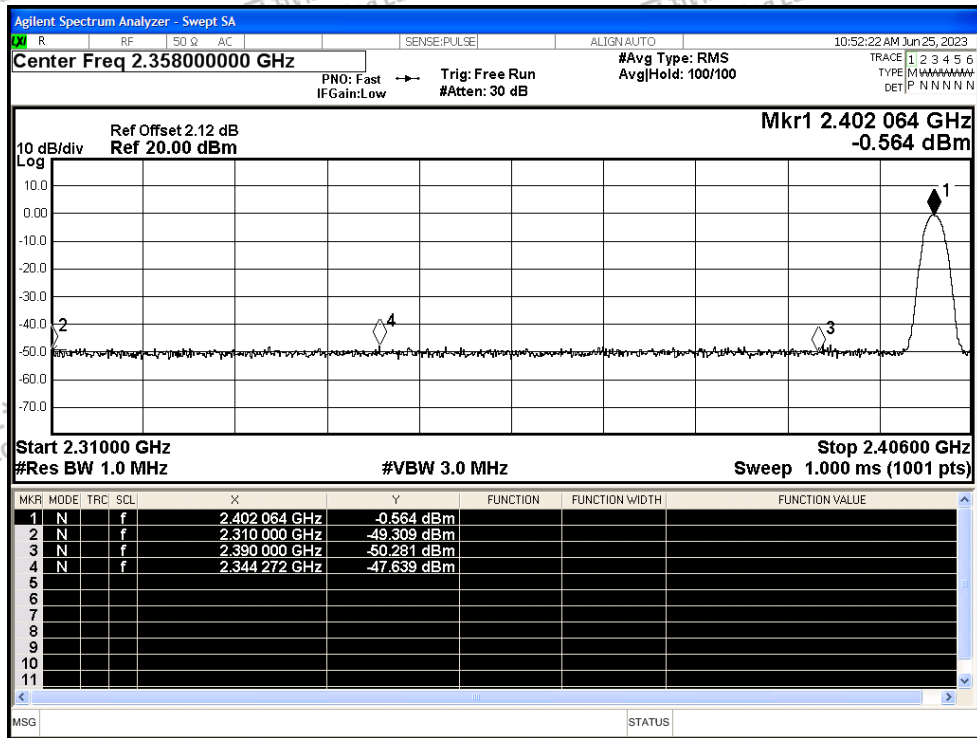


Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Average

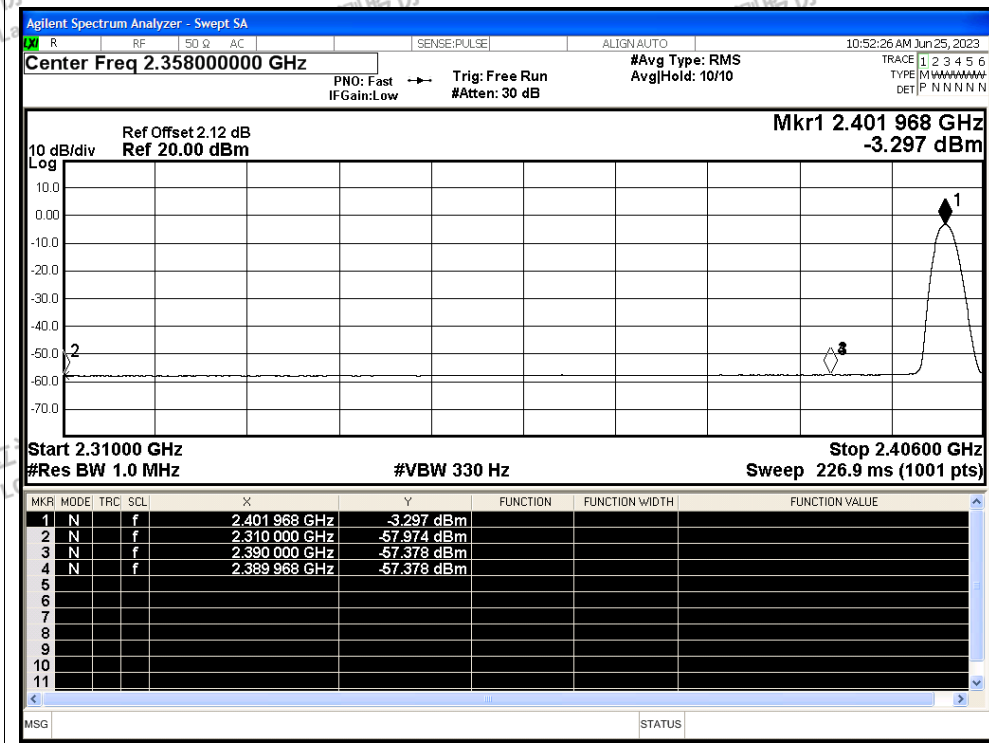




Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Peak



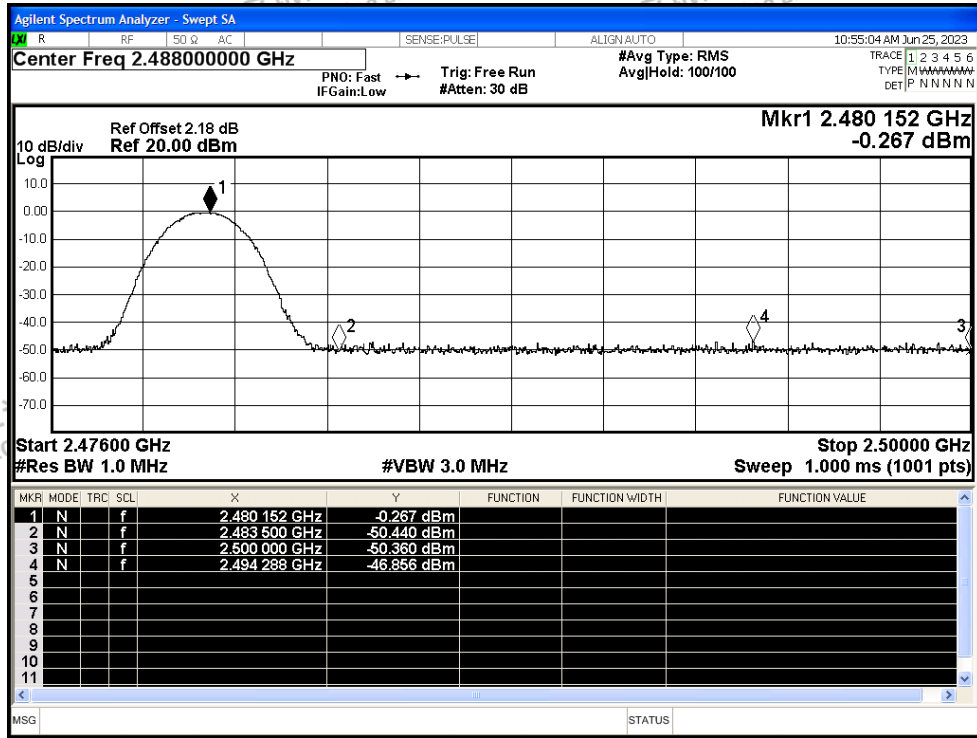
Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Average



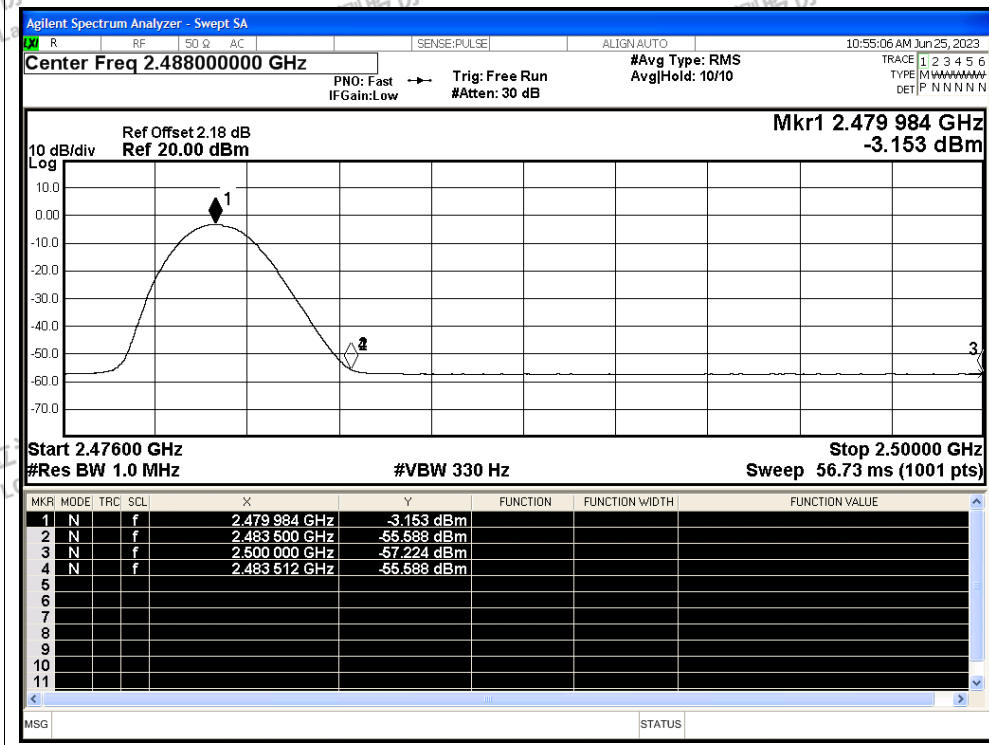




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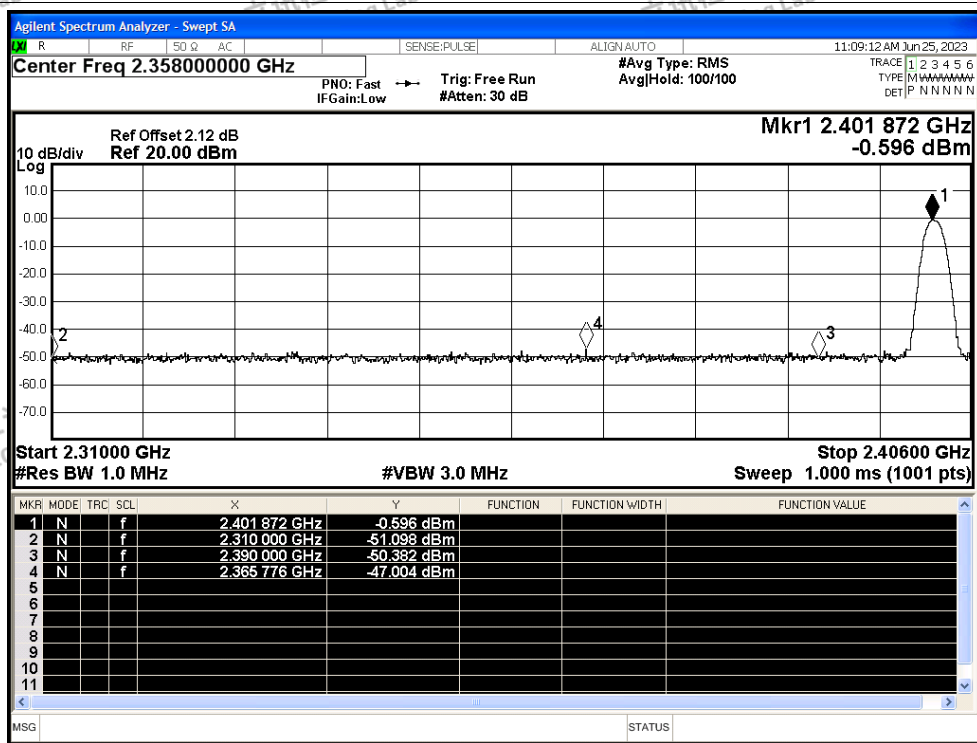


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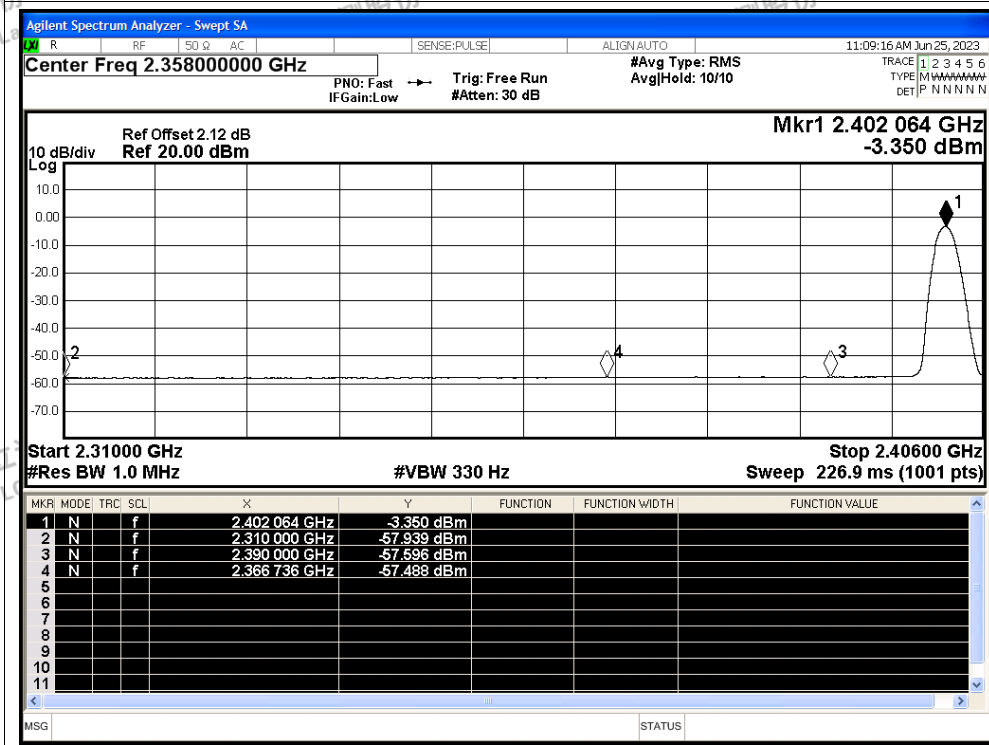




Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Peak

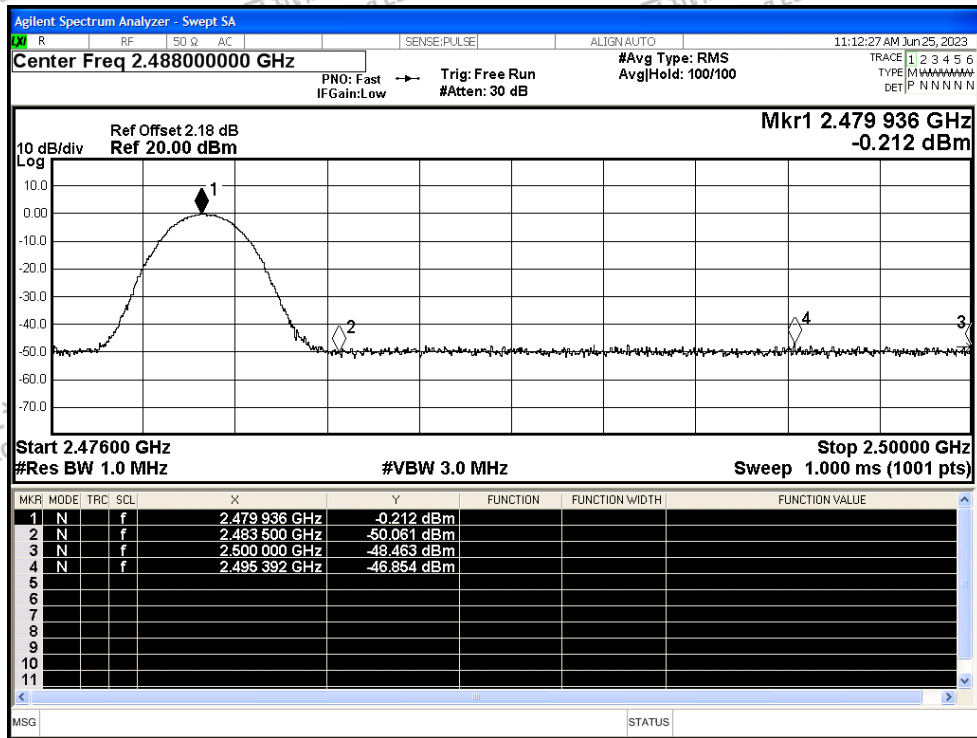


Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Average





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



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

