



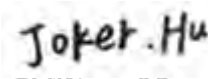

# Appendix A

## RF Test Data for BT (Conducted Measurement)

Product Name: Mibro Watch GS Pro

Test Model: XPAW013

### Environmental Conditions

Temperature:	23.5 °C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	 Joker Hu
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	0.963	N/A	Pass
NVNT	1-DH5	2441	Ant1	1.012	N/A	Pass
NVNT	1-DH5	2480	Ant1	1.013	N/A	Pass
NVNT	2-DH5	2402	Ant1	1.321	N/A	Pass
NVNT	2-DH5	2441	Ant1	1.28	N/A	Pass
NVNT	2-DH5	2480	Ant1	1.305	N/A	Pass
NVNT	3-DH5	2402	Ant1	1.277	N/A	Pass
NVNT	3-DH5	2441	Ant1	1.292	N/A	Pass
NVNT	3-DH5	2480	Ant1	1.291	N/A	Pass



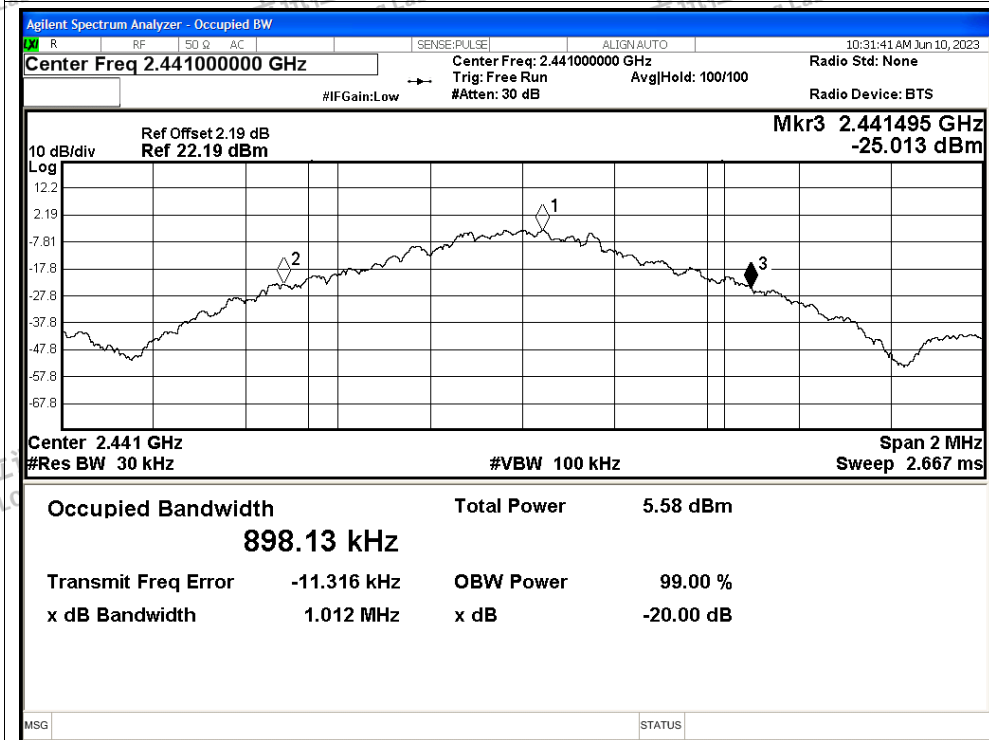


Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1

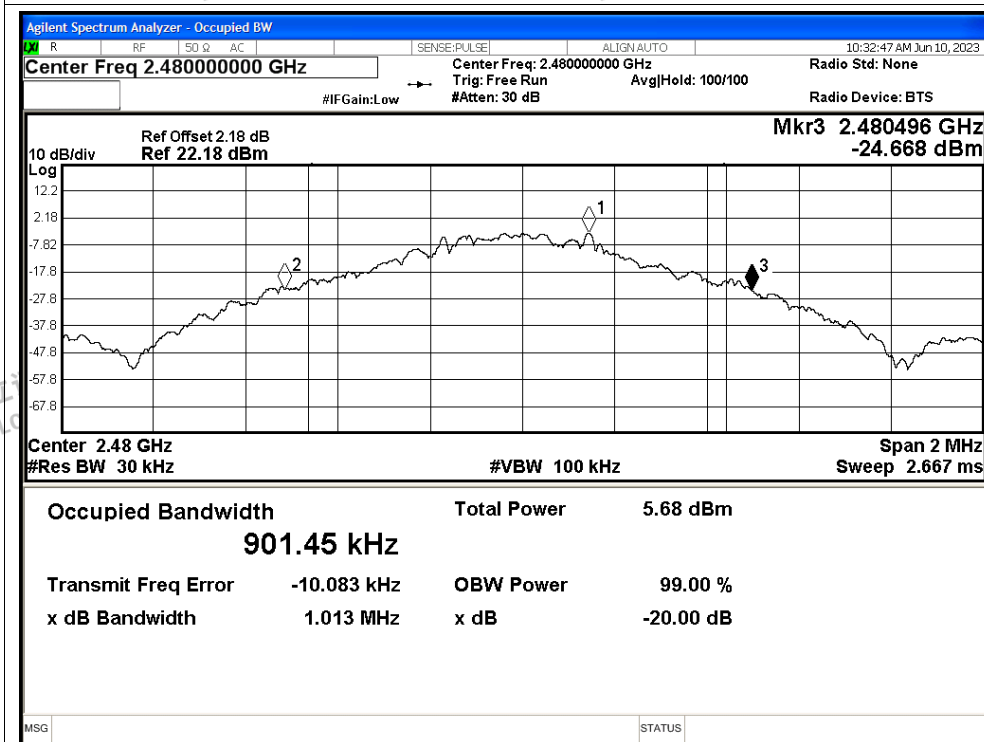


-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1

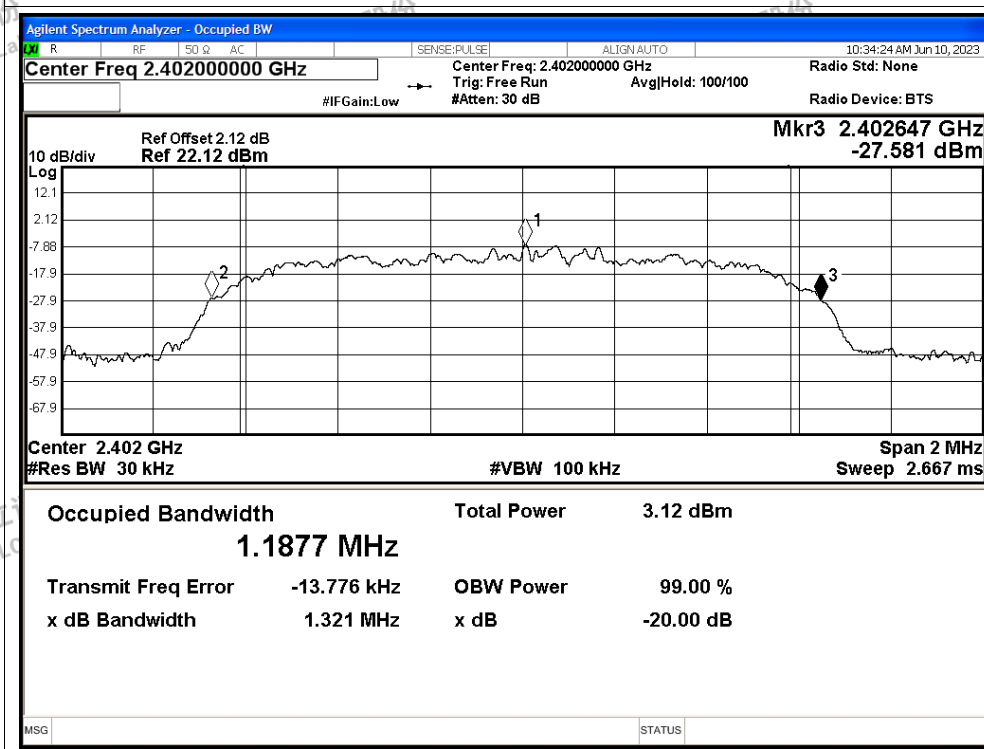




-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1

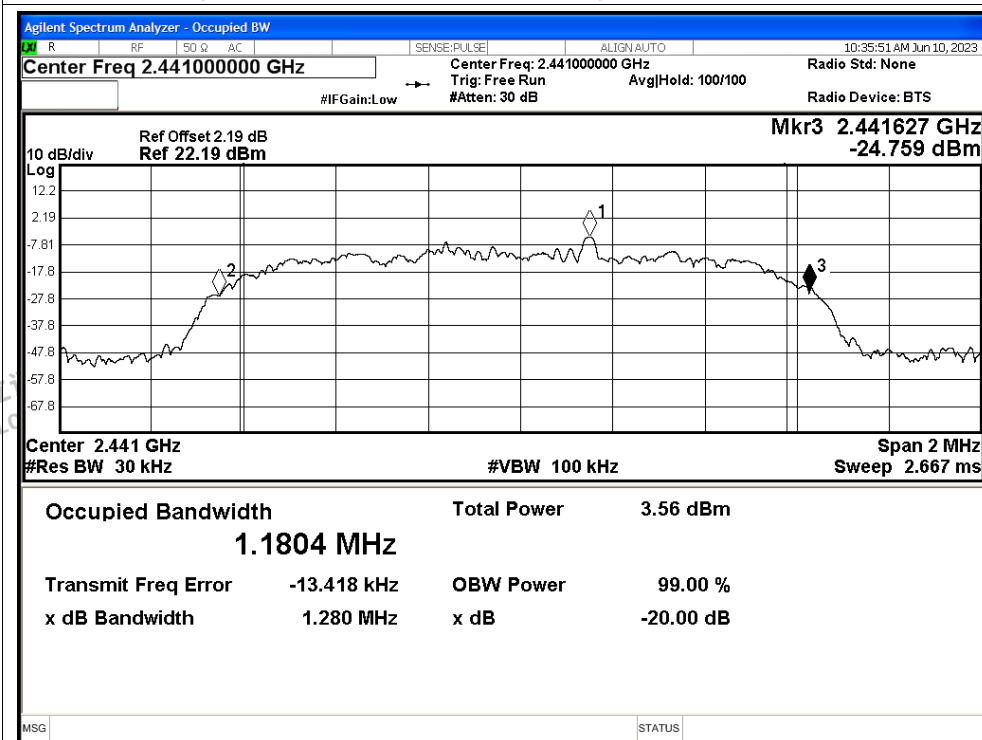


-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1

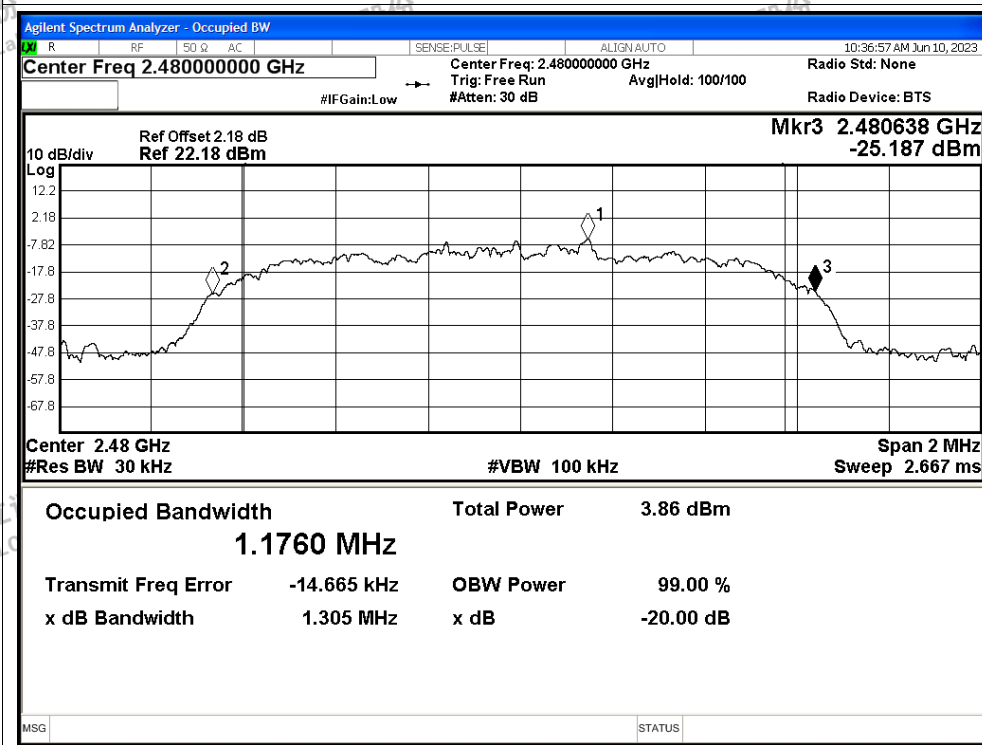




-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1

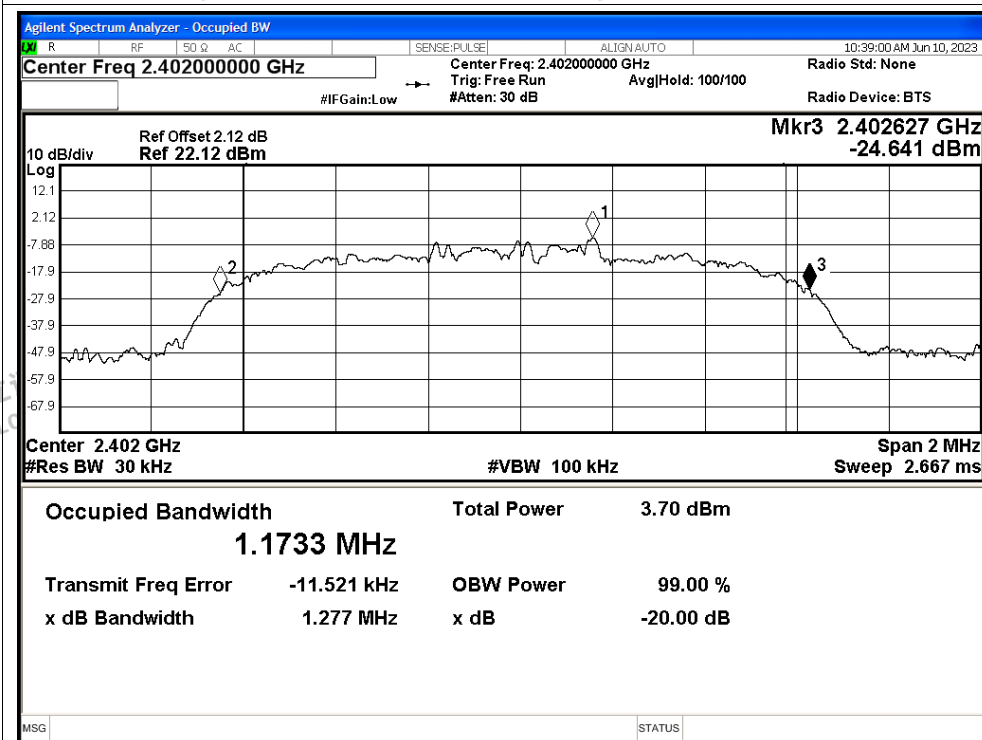


-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1

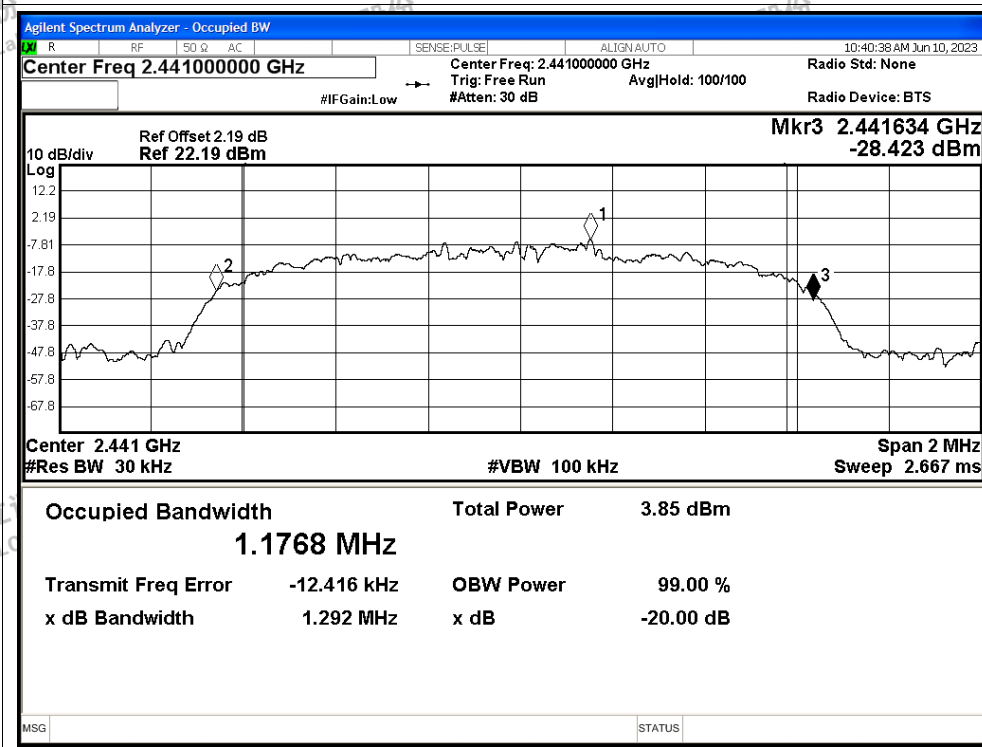




-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1

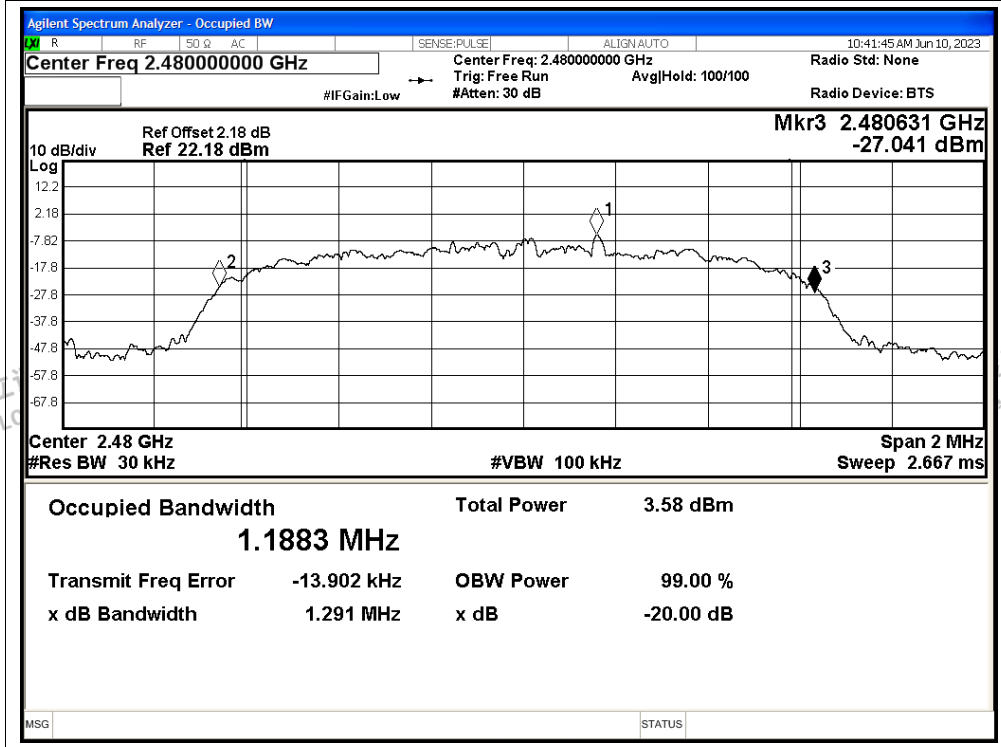


-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1





-20dB Bandwidth NVNT 3-DH5 2480MHz Ant1







## A.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	-0.91	21	Pass
NVNT	1-DH5	2441	Ant1	-0.59	21	Pass
NVNT	1-DH5	2480	Ant1	-0.66	21	Pass
NVNT	2-DH5	2402	Ant1	-1.09	21	Pass
NVNT	2-DH5	2441	Ant1	-0.83	21	Pass
NVNT	2-DH5	2480	Ant1	-0.87	21	Pass
NVNT	3-DH5	2402	Ant1	-1.06	21	Pass
NVNT	3-DH5	2441	Ant1	-0.69	21	Pass
NVNT	3-DH5	2480	Ant1	-0.77	21	Pass

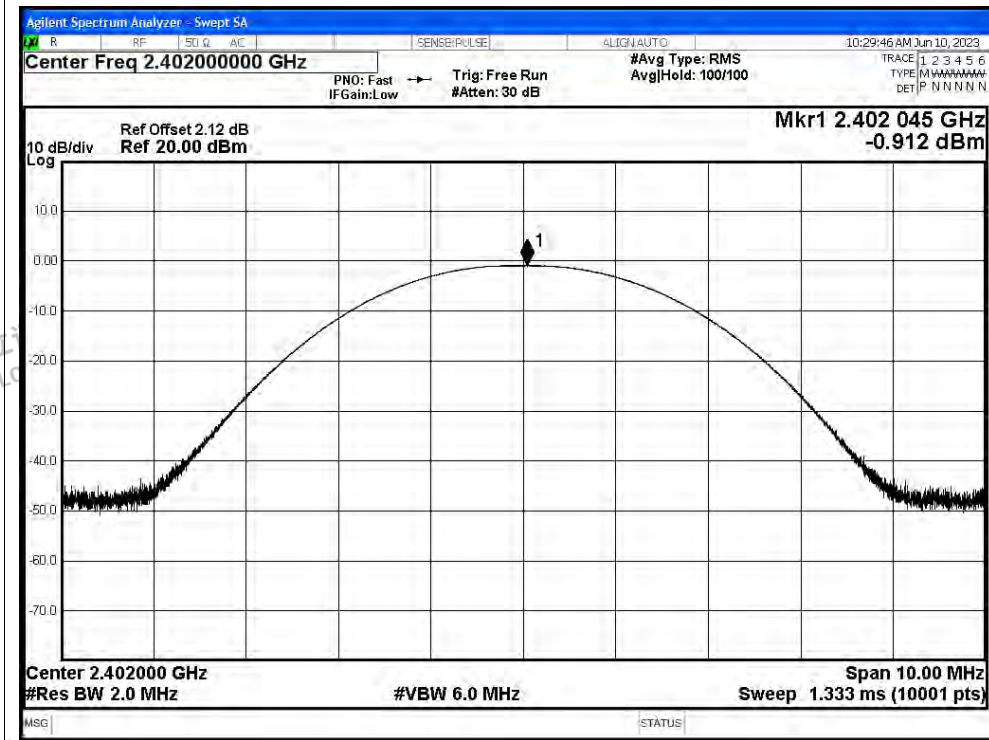




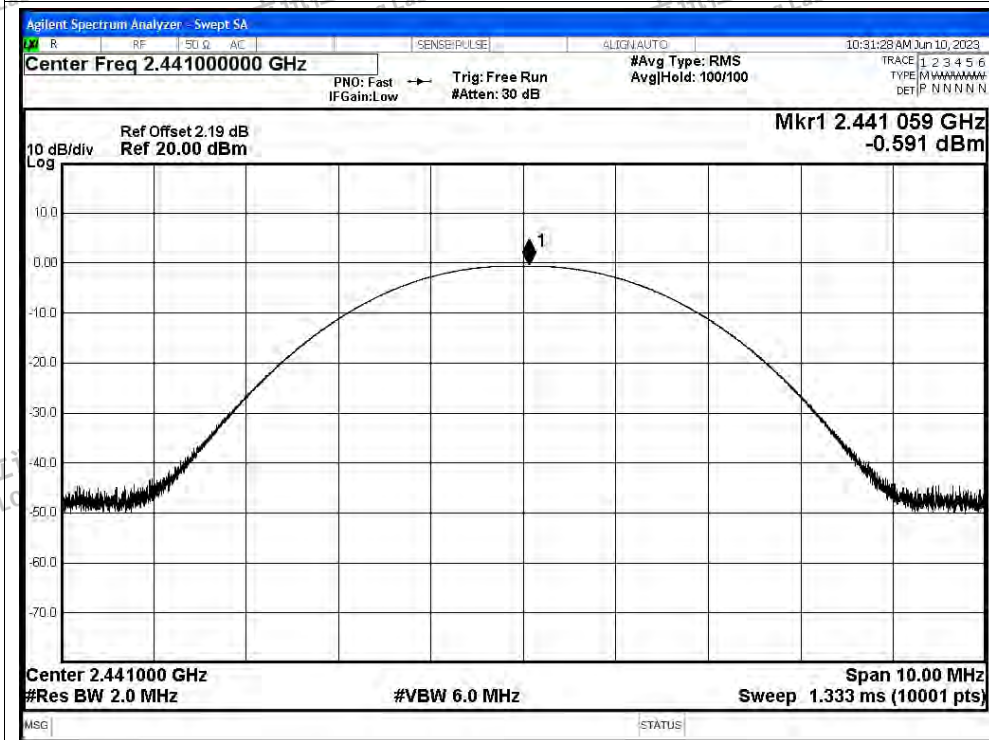


Test Graphs

Power NVNT 1-DH5 2402MHz Ant1

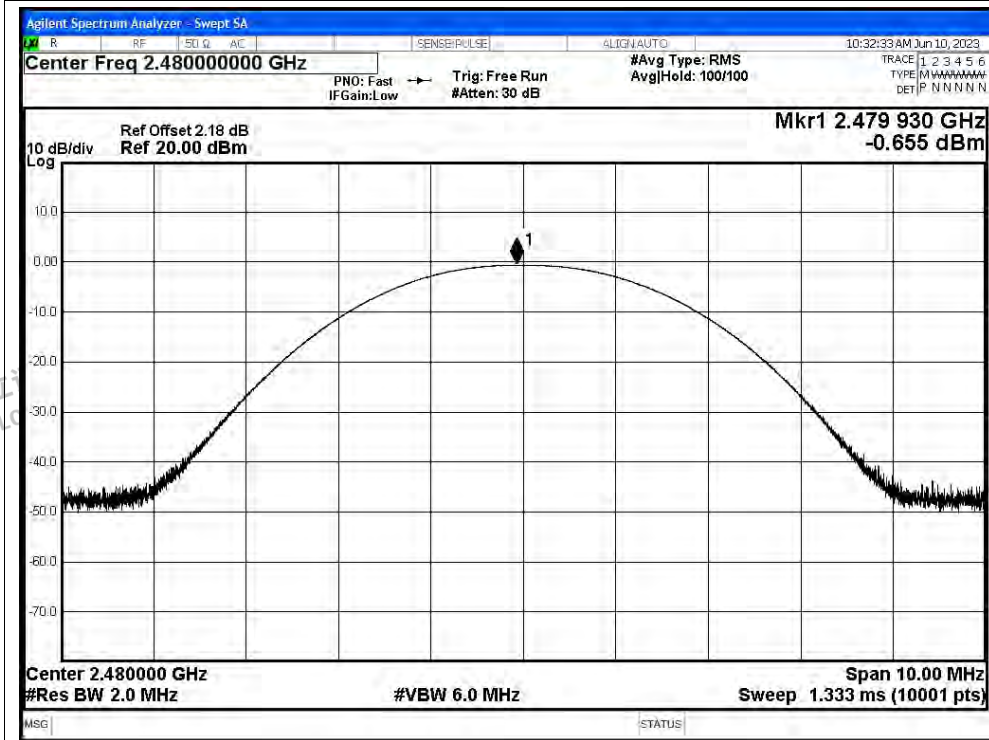


Power NVNT 1-DH5 2441MHz Ant1

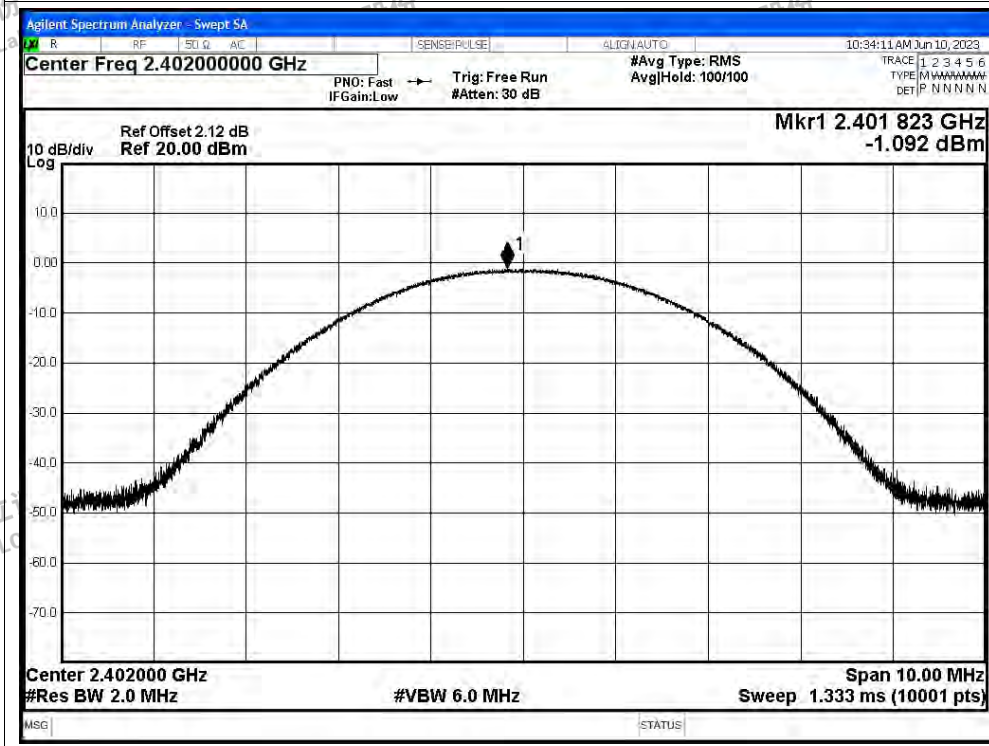




Power NVNT 1-DH5 2480MHz Ant1

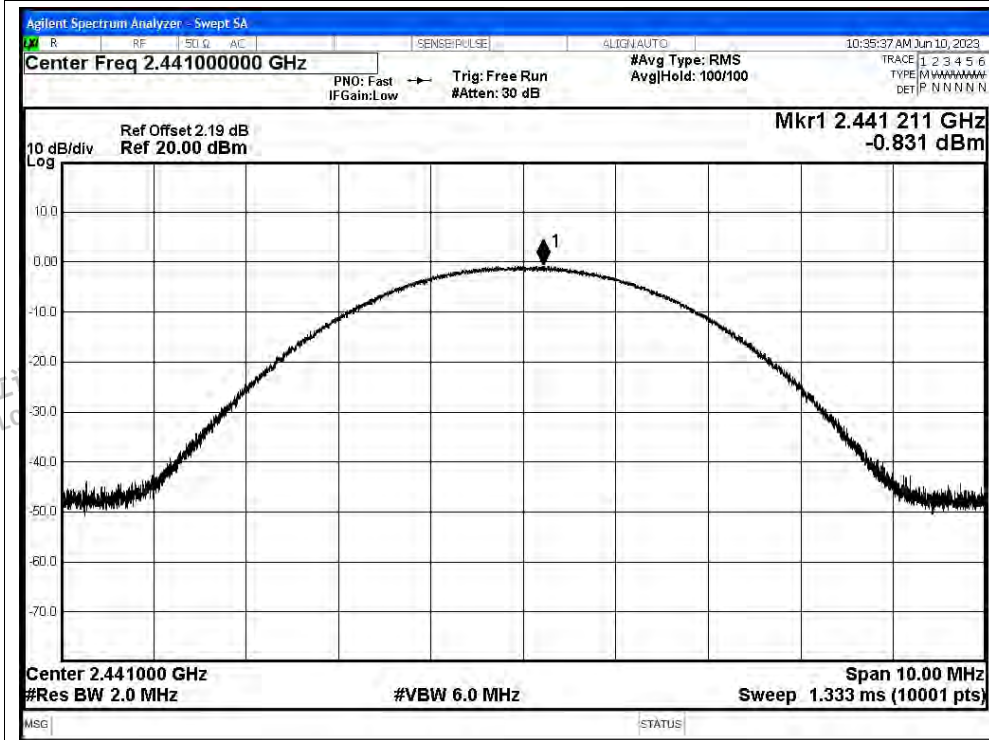


Power NVNT 2-DH5 2402MHz Ant1

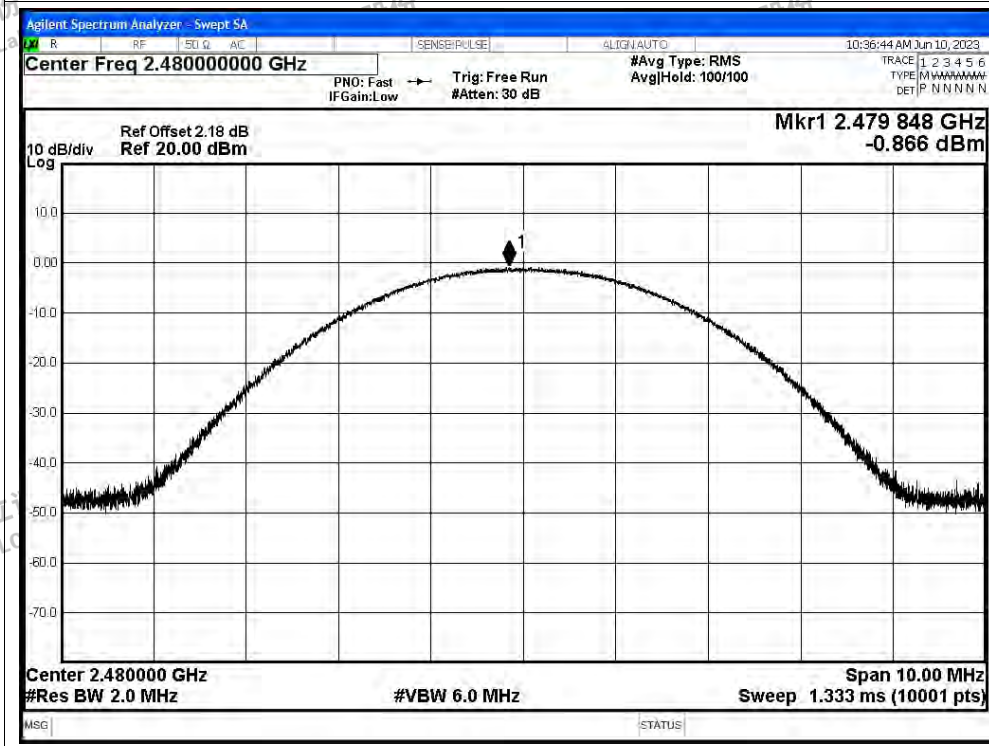




Power NVNT 2-DH5 2441MHz Ant1



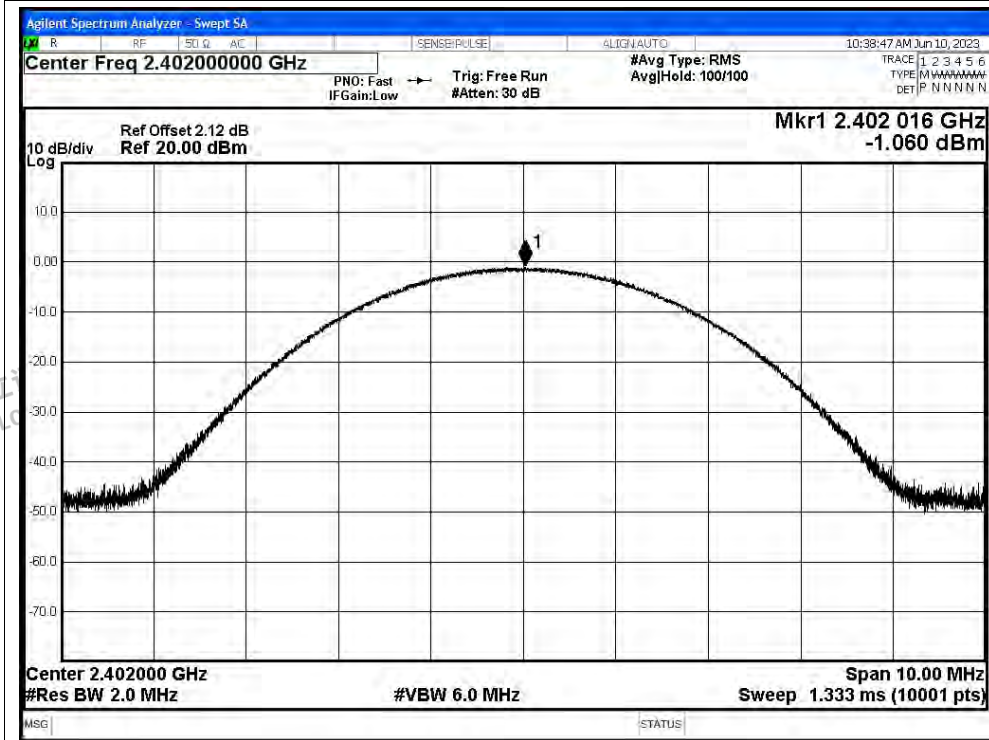
Power NVNT 2-DH5 2480MHz Ant1



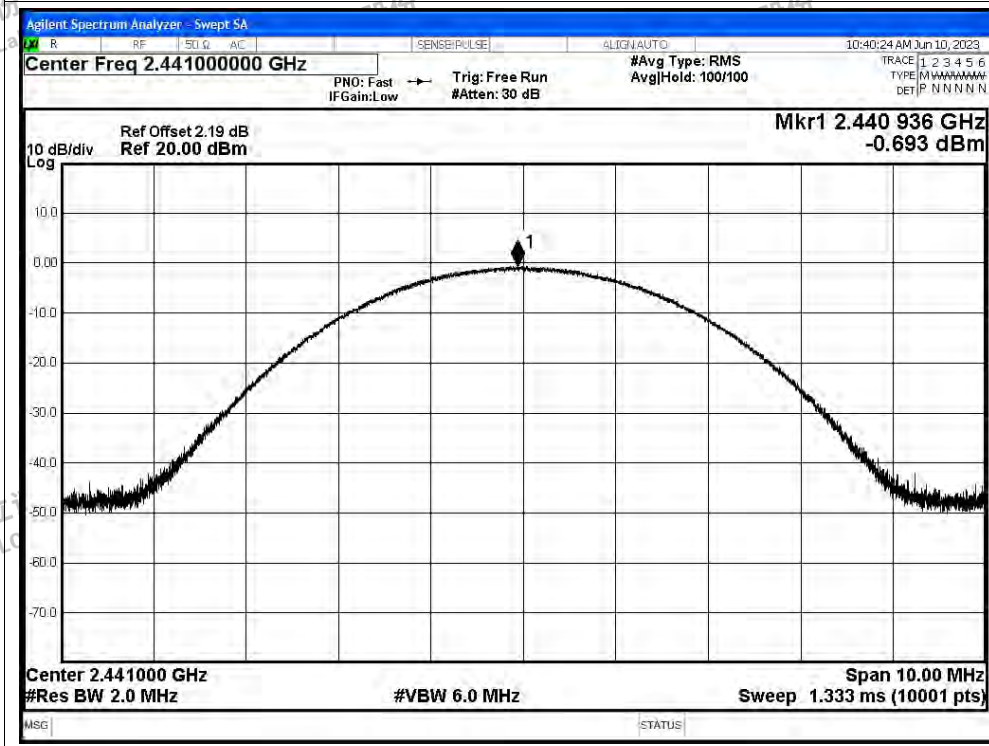


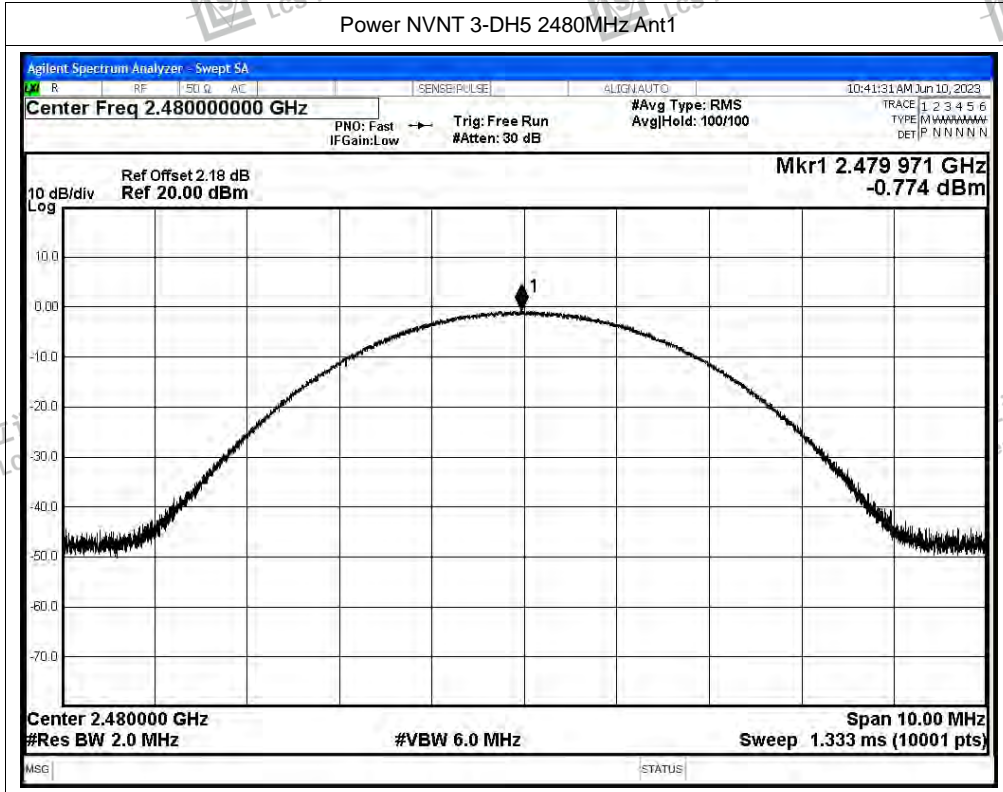


Power NVNT 3-DH5 2402MHz Ant1



Power NVNT 3-DH5 2441MHz Ant1







### A.3 Carrier Frequencies Separation

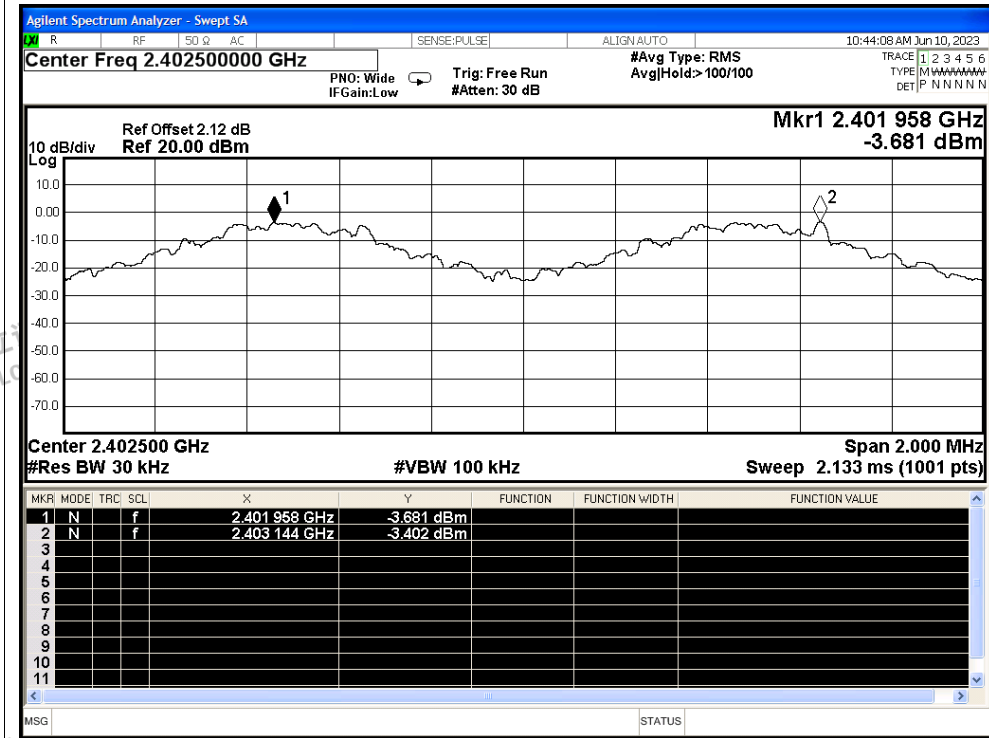
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2401.958	2403.144	1.186	0.675	Pass
NVNT	2-DH5	Ant1	2401.886	2402.99	1.104	0.881	Pass
NVNT	3-DH5	Ant1	2402.01	2403	0.99	0.861	Pass



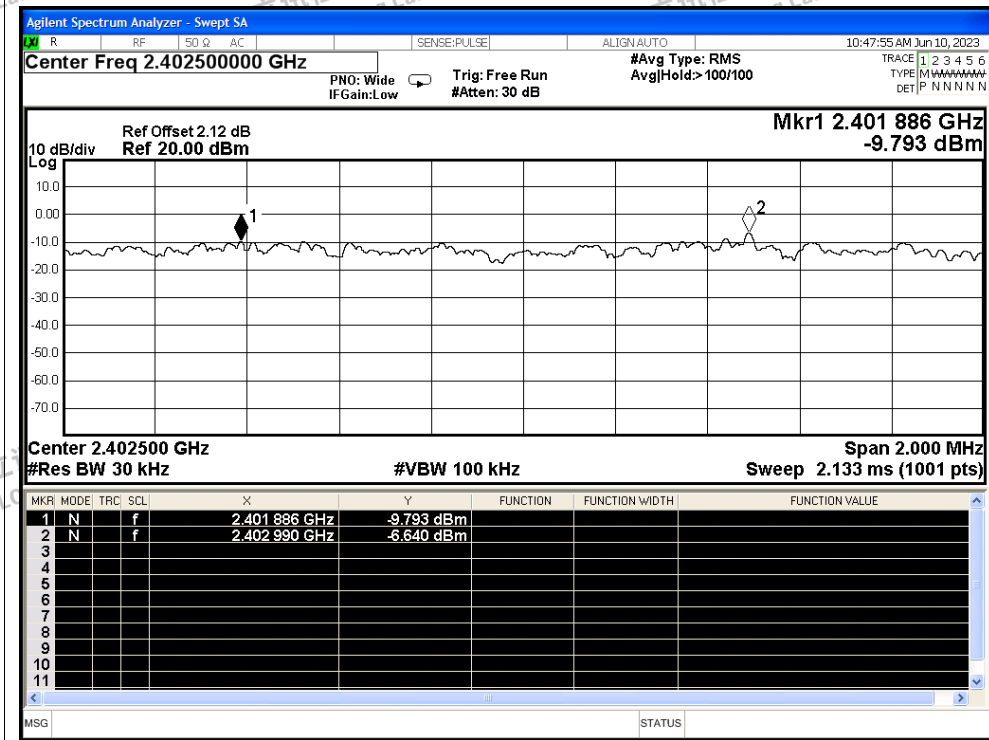


Test Graphs

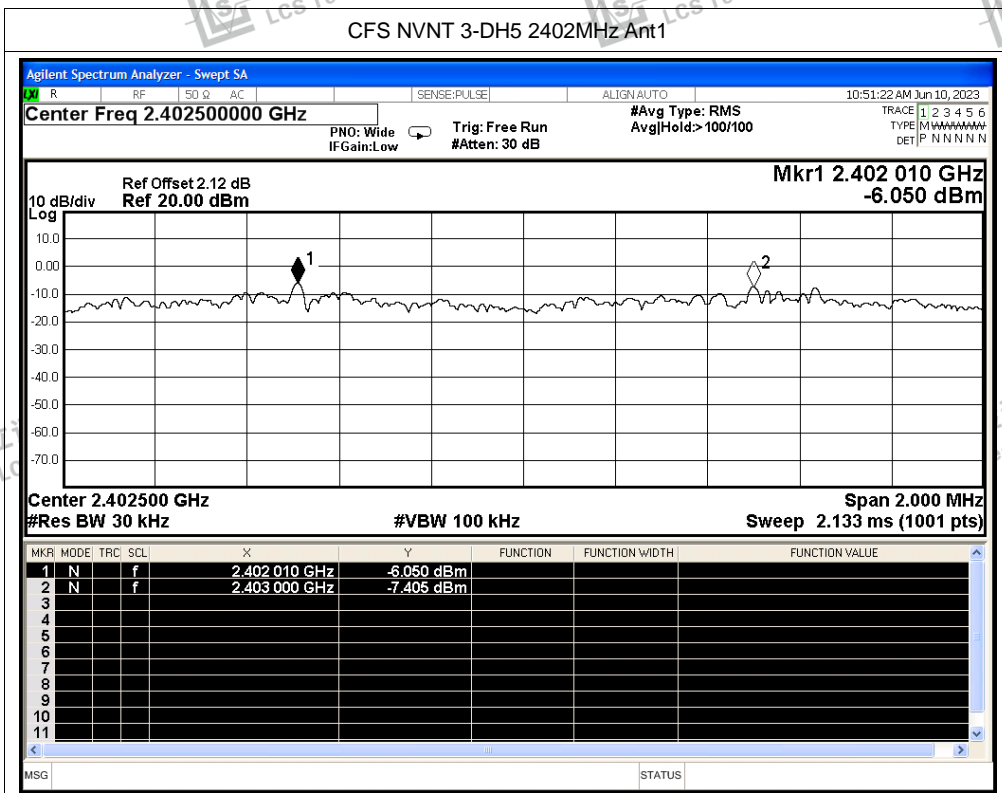
CFS NVNT 1-DH5 2402MHz Ant1



CFS NVNT 2-DH5 2402MHz Ant1









### A.4 Dwell Time

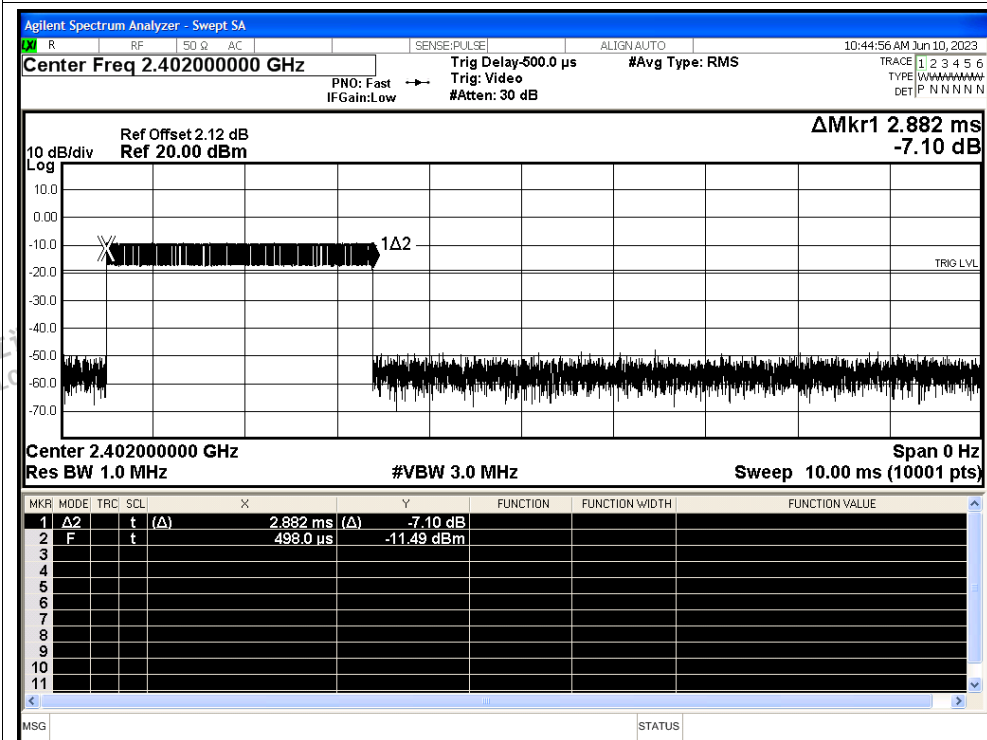
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH5	2402	Ant1	2.882	299.728	104	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.885	314.465	109	31600	400	Pass
NVNT	3-DH5	2402	Ant1	2.887	317.57	110	31600	400	Pass



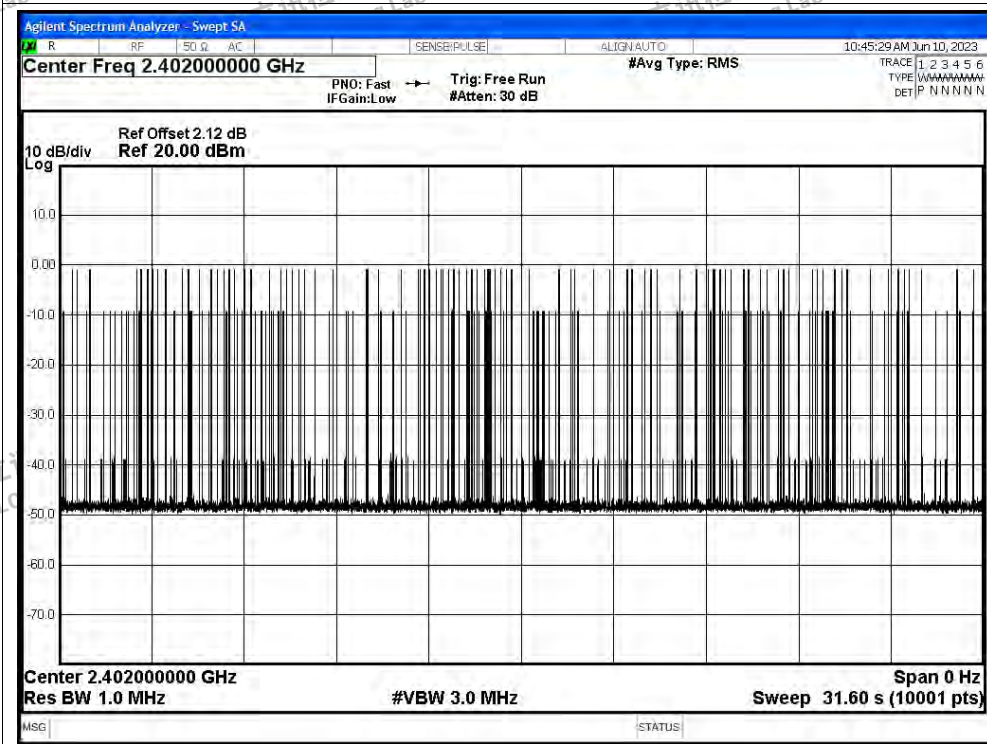


Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant1 One Burst

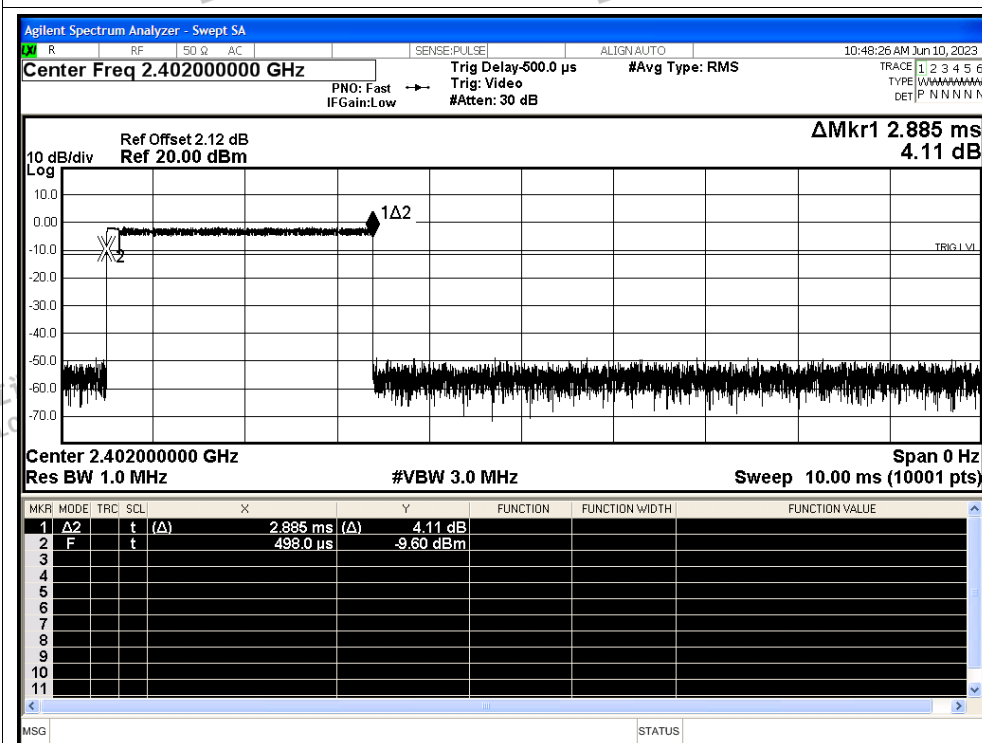


Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated

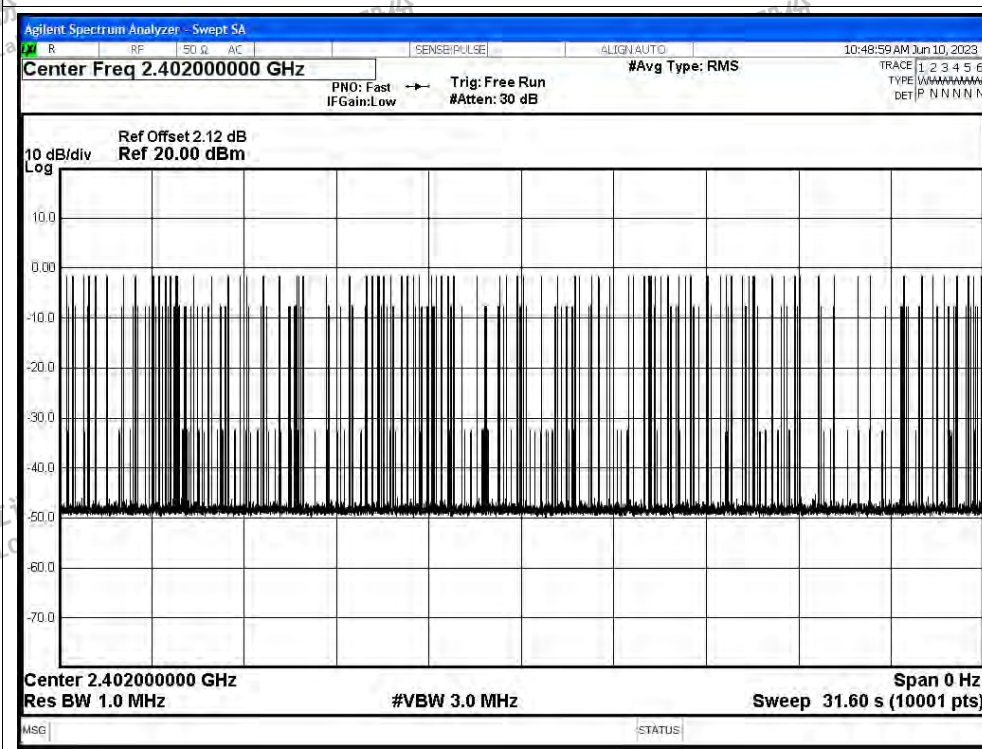




Dwell NVNT 2-DH5 2402MHz Ant1 One Burst

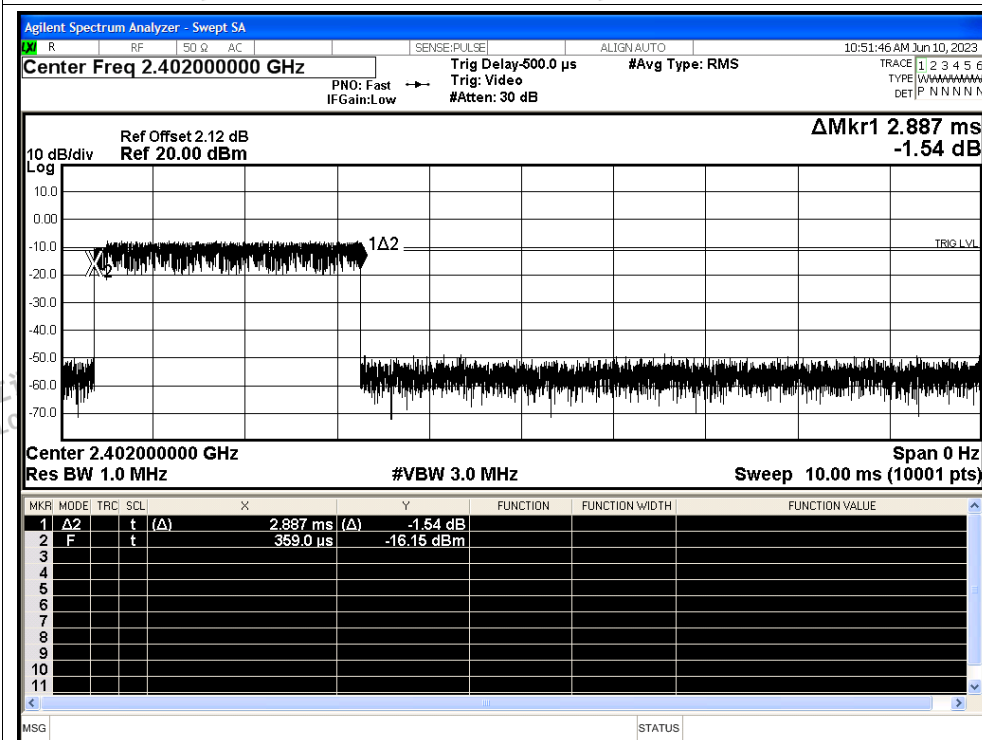


Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated

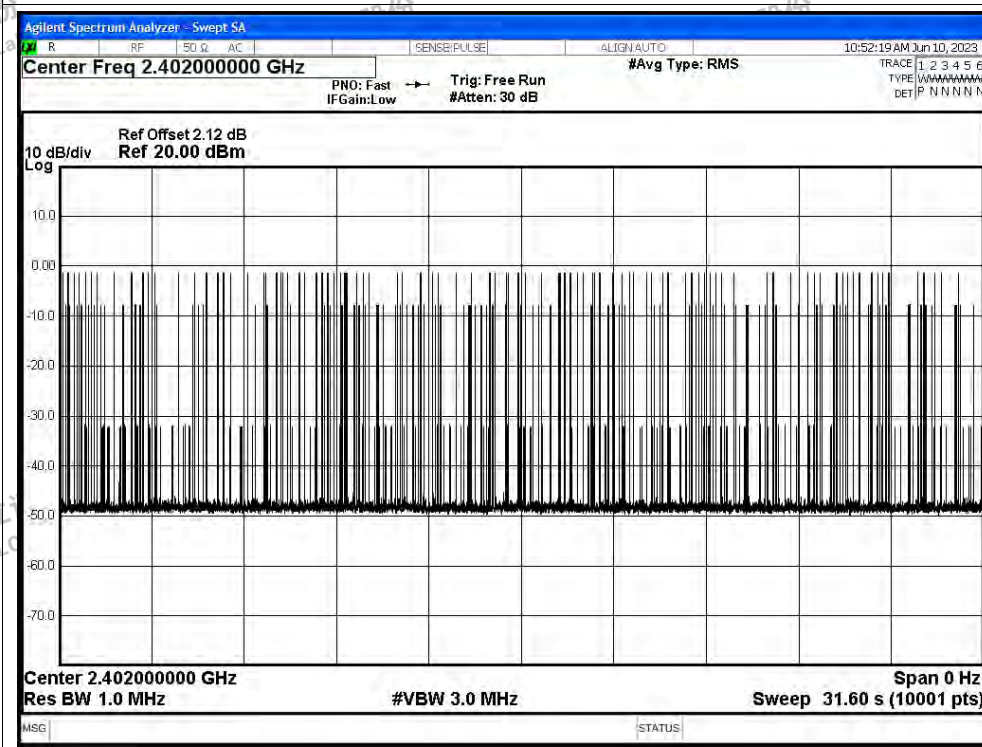




Dwell NVNT 3-DH5 2402MHz Ant1 One Burst



Dwell NVNT 3-DH5 2402MHz Ant1 Accumulated







### A.5 Number of Hopping Channel

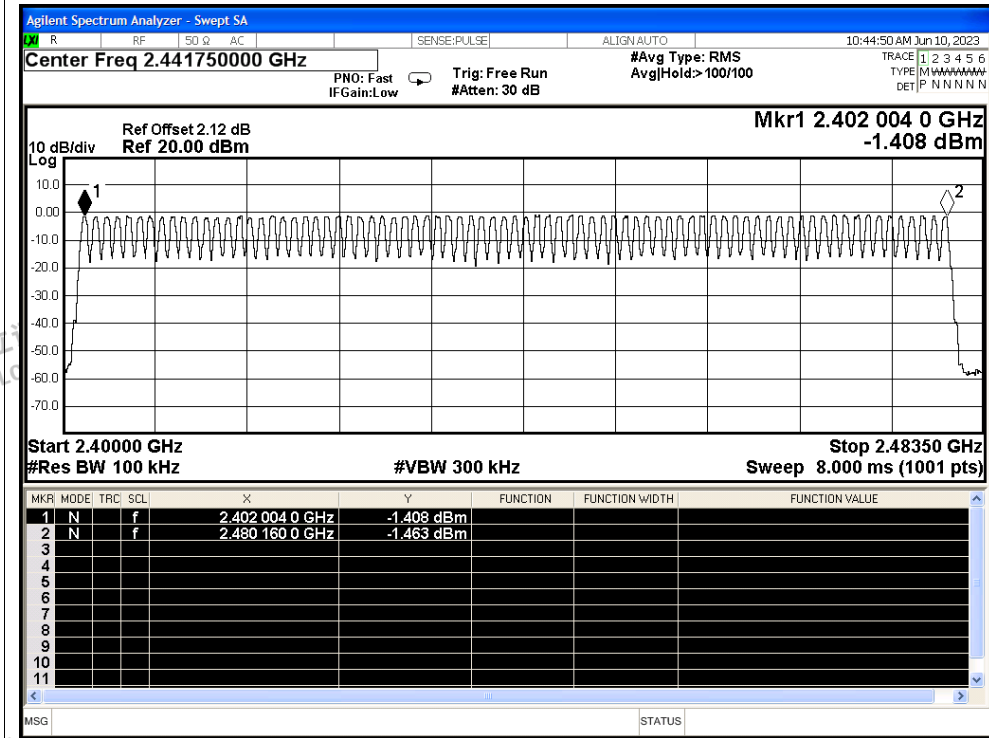
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH5	Ant1	79	15	Pass
NVNT	2-DH5	Ant1	79	15	Pass
NVNT	3-DH5	Ant1	79	15	Pass



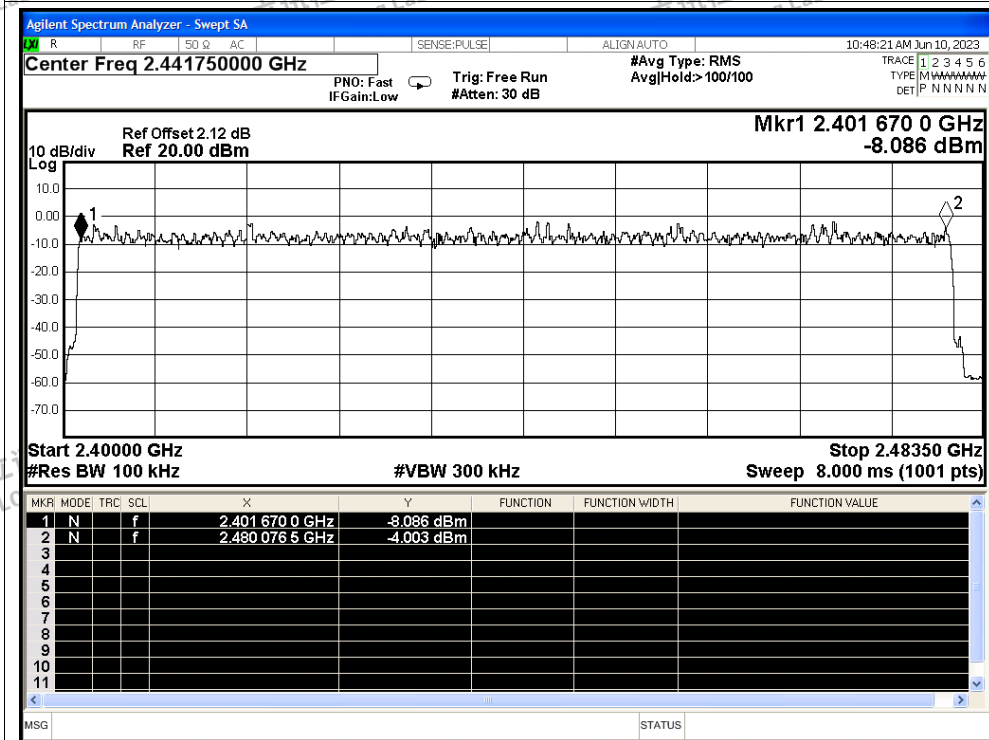


Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant1



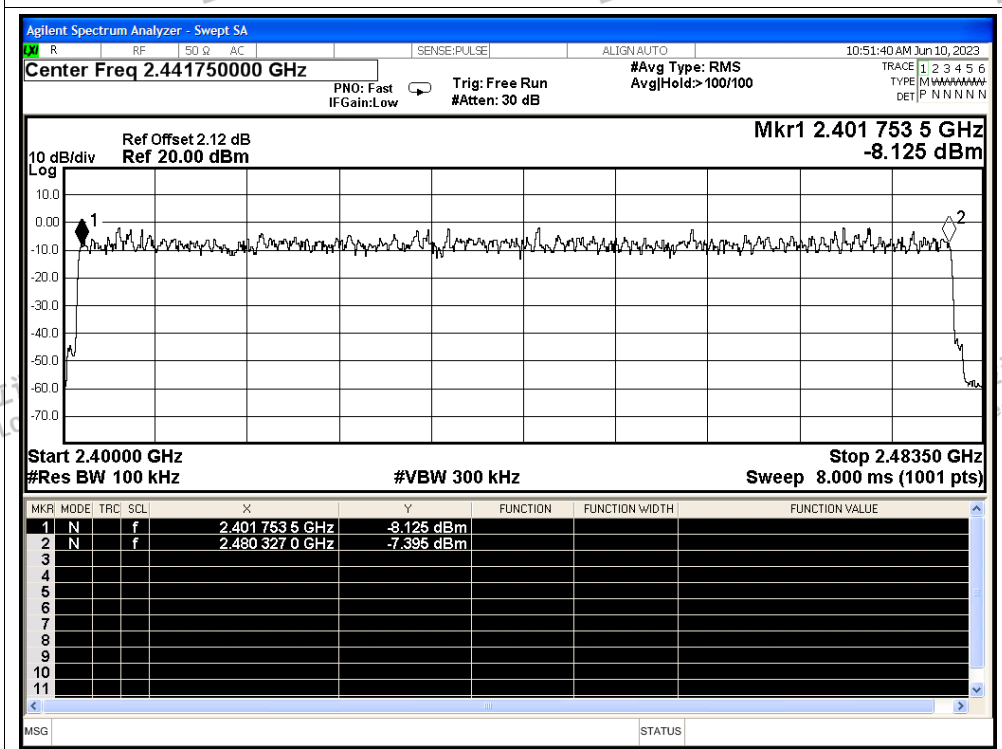
Hopping No. NVNT 2-DH5 2402MHz Ant1







Hopping No. NVNT 3-DH5 2402MHz Ant1





### A.6 Band Edge

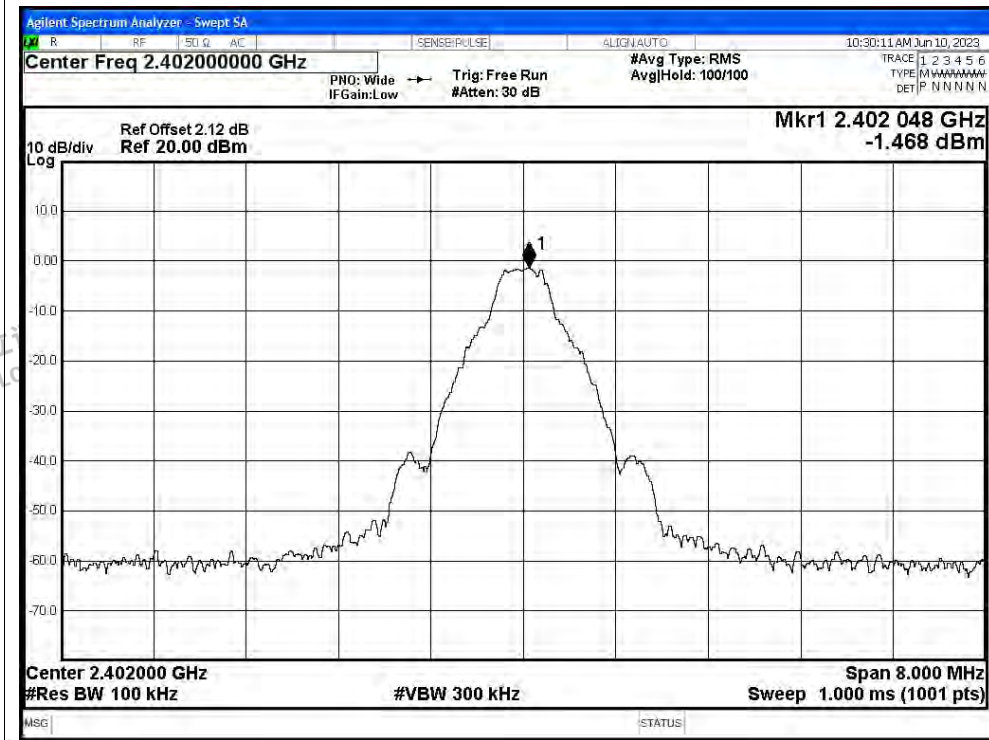
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-55.4	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-55.96	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-54.38	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-55.26	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-52.92	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-54.58	-20	Pass



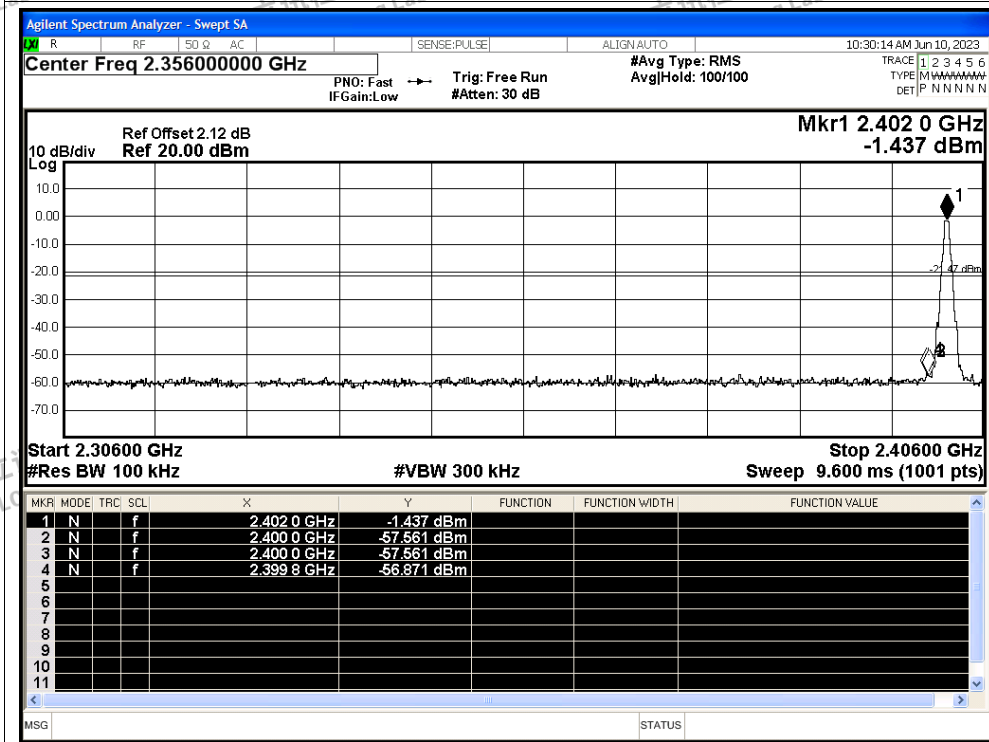


Test Graphs

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

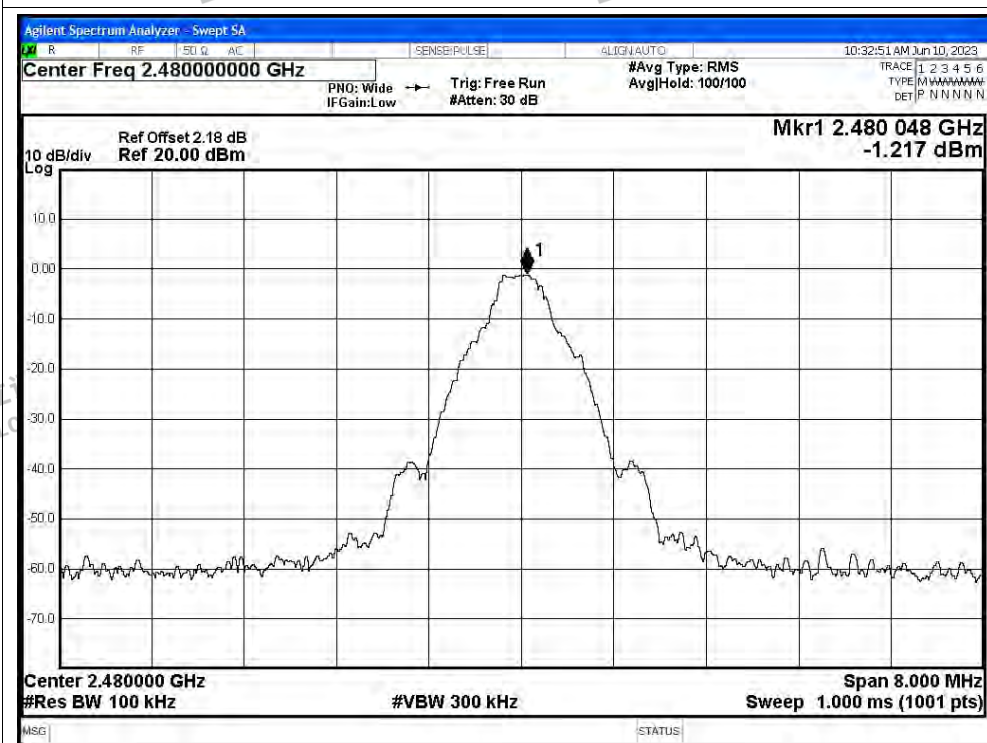


Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission

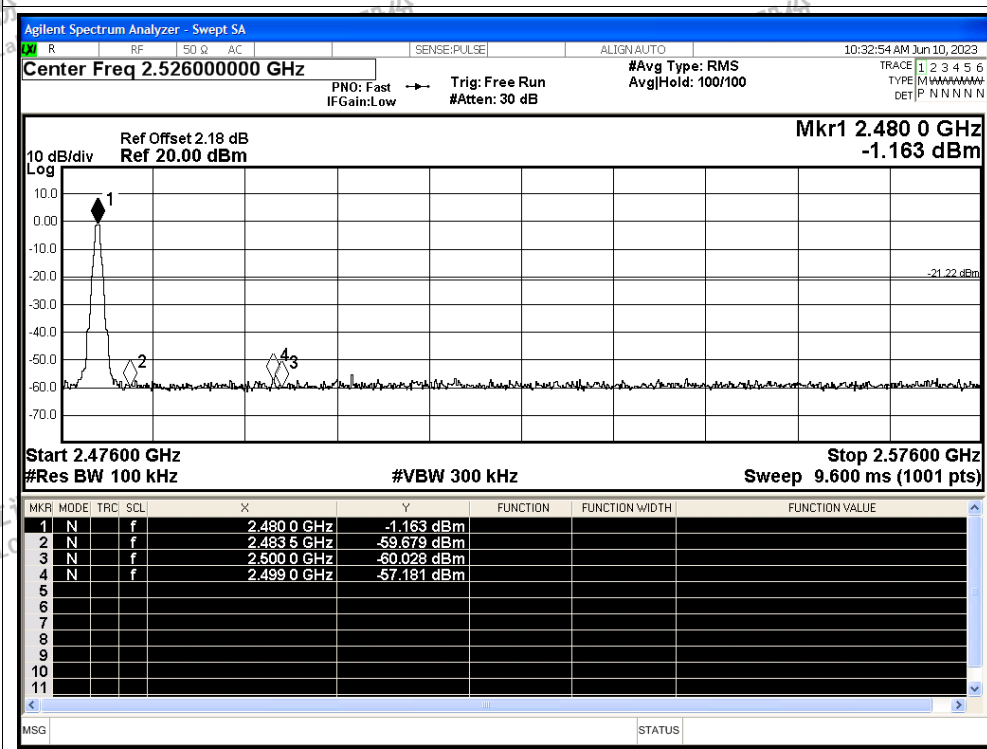




Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref

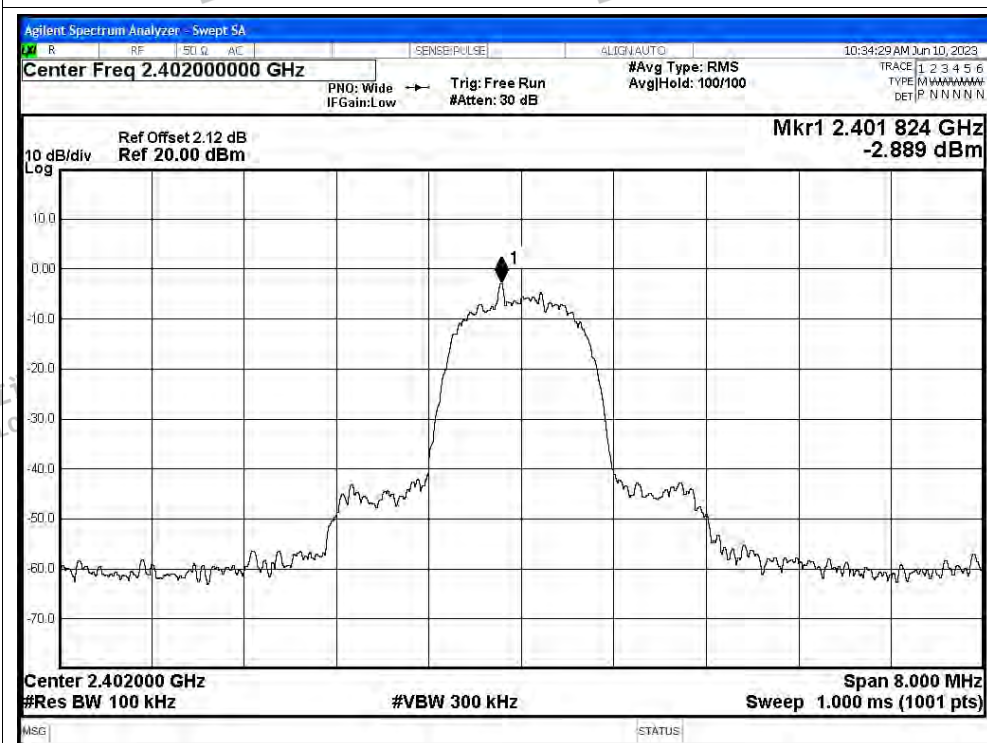


Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission

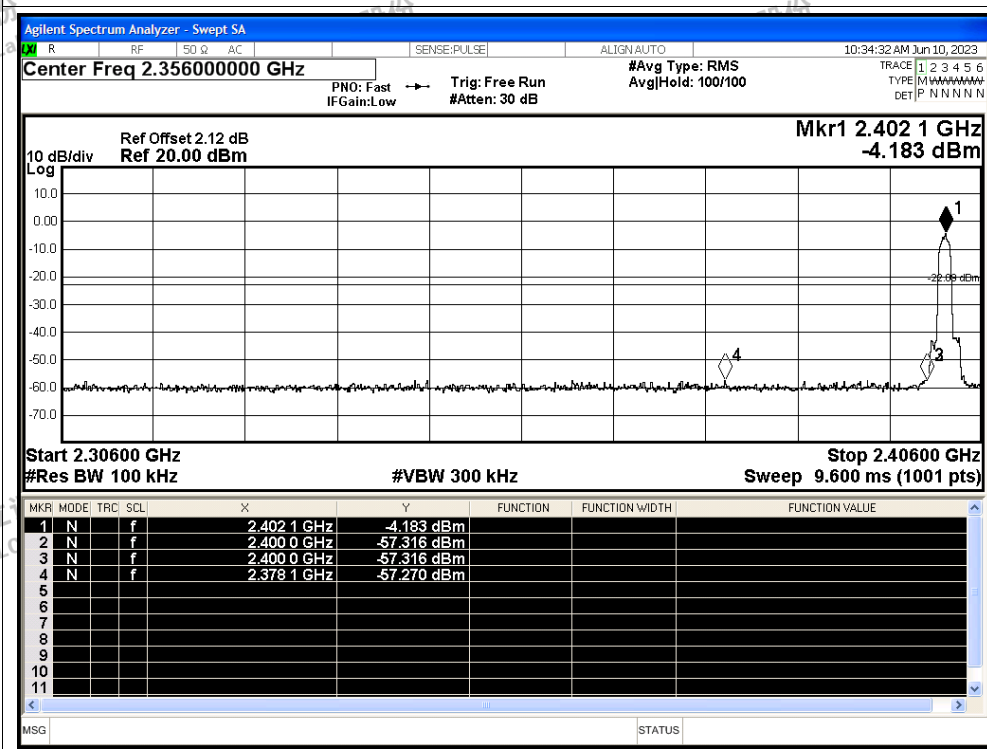




Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref



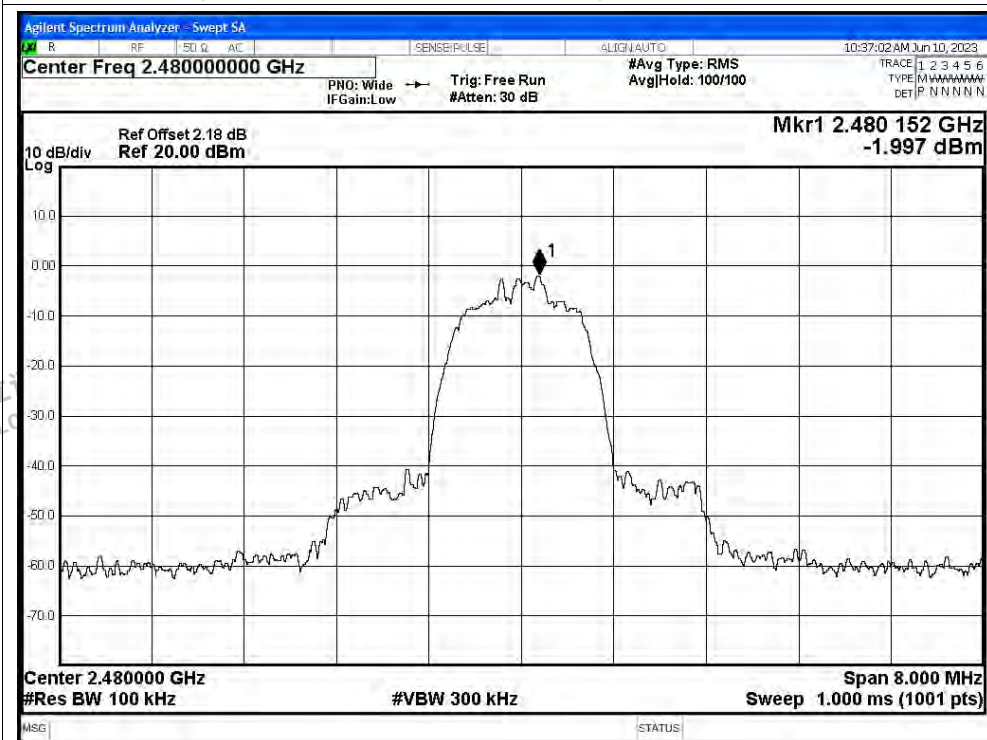
Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission



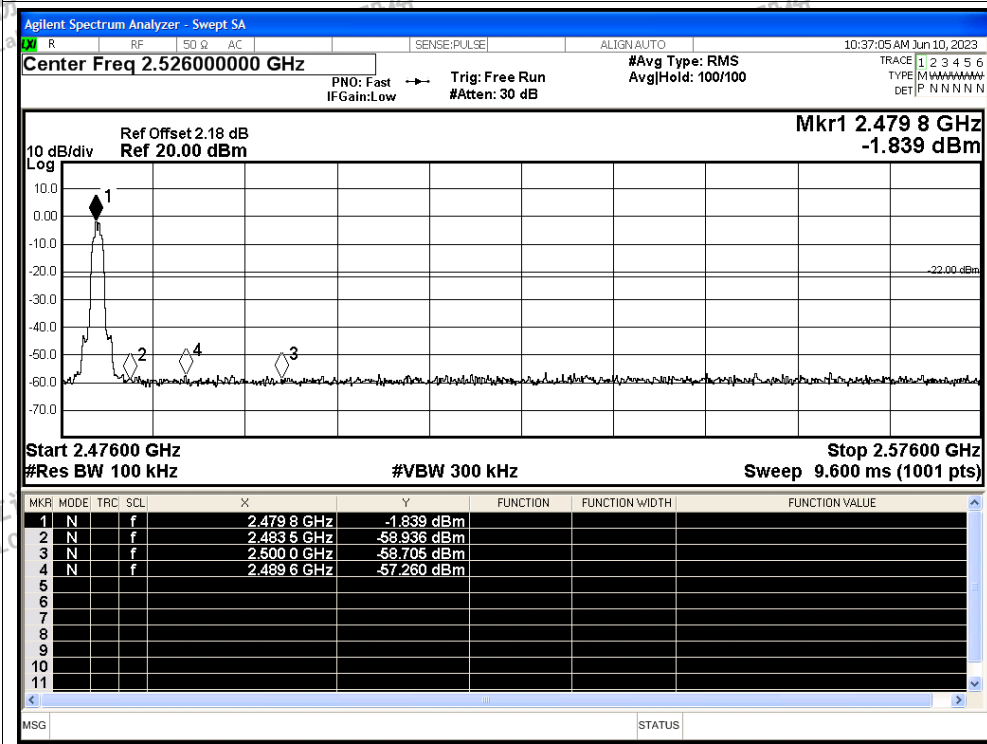




Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref

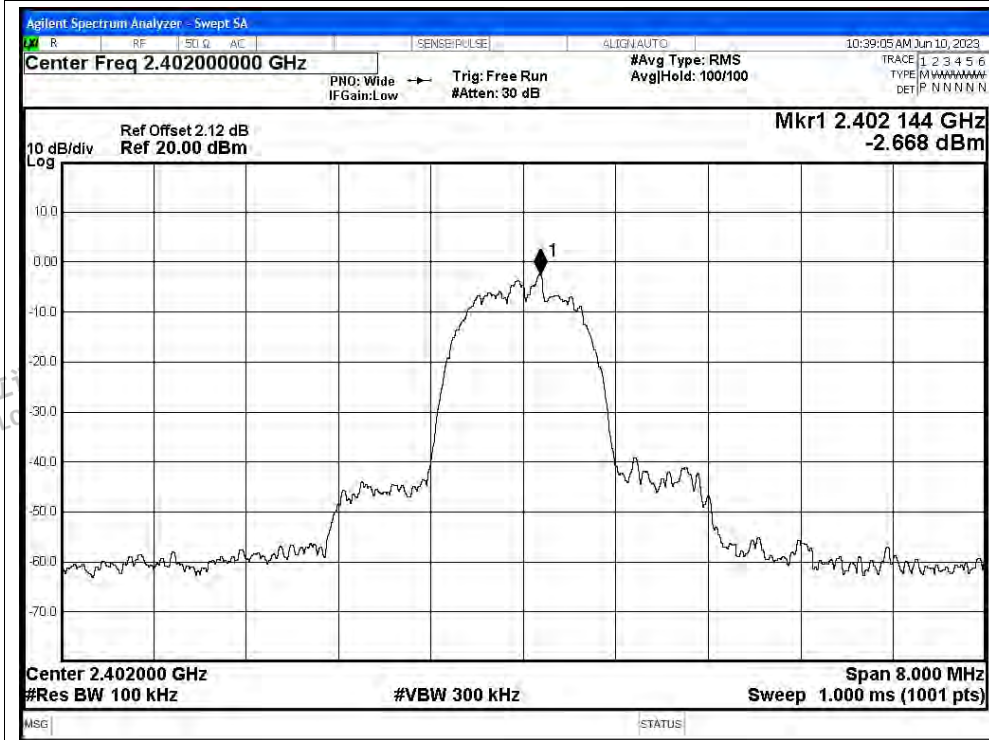


Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Emission

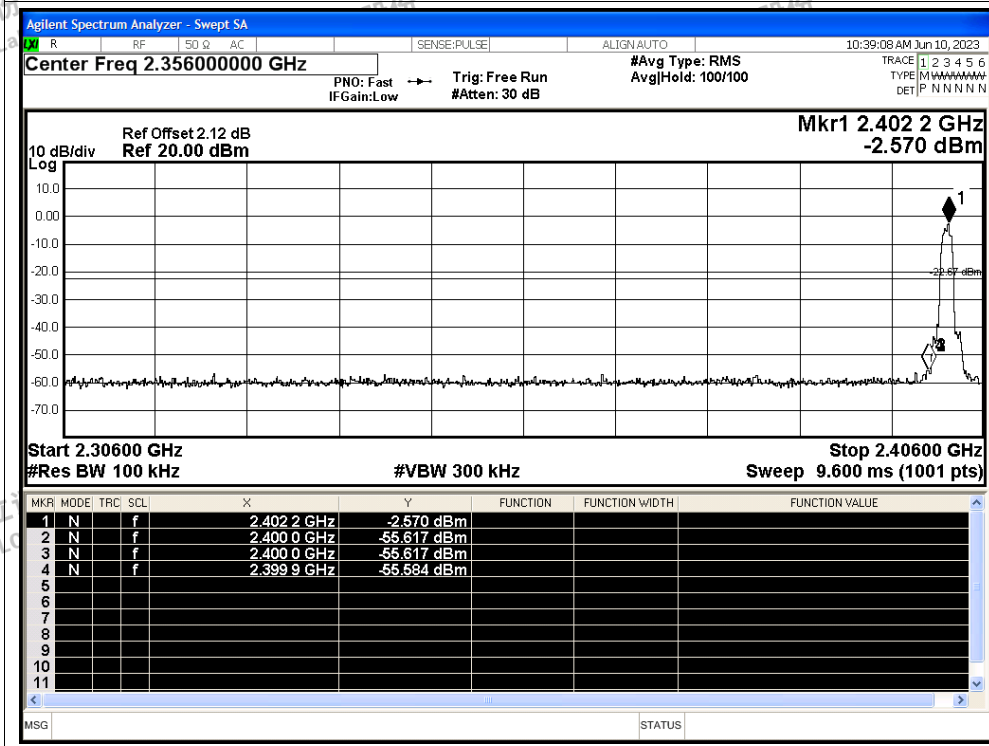




Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Ref



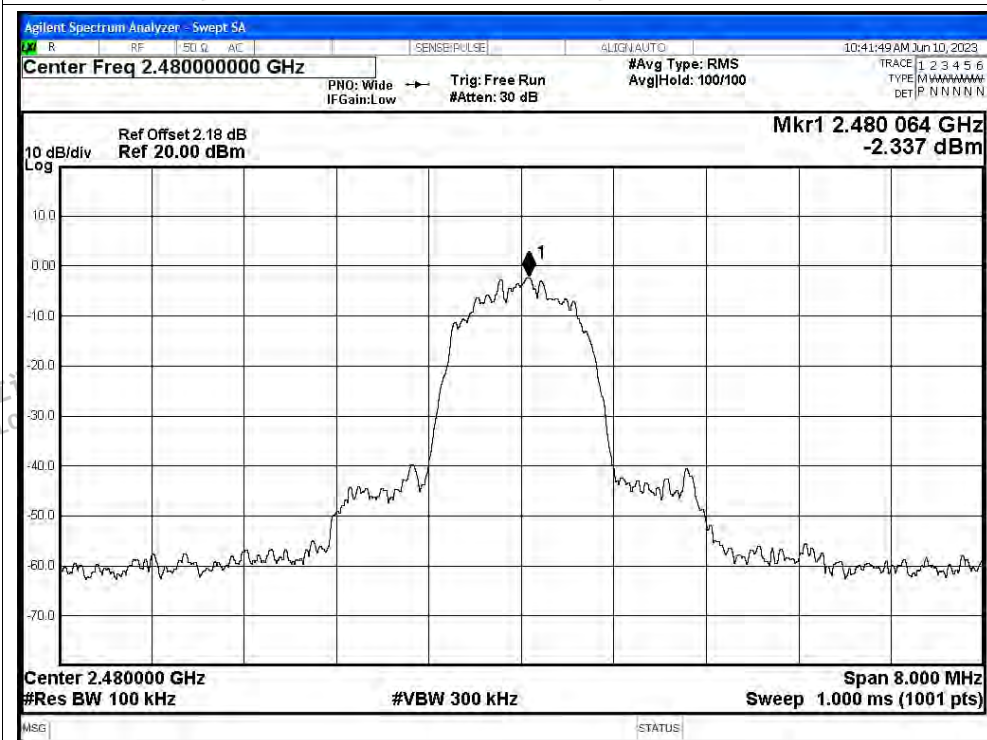
Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Emission



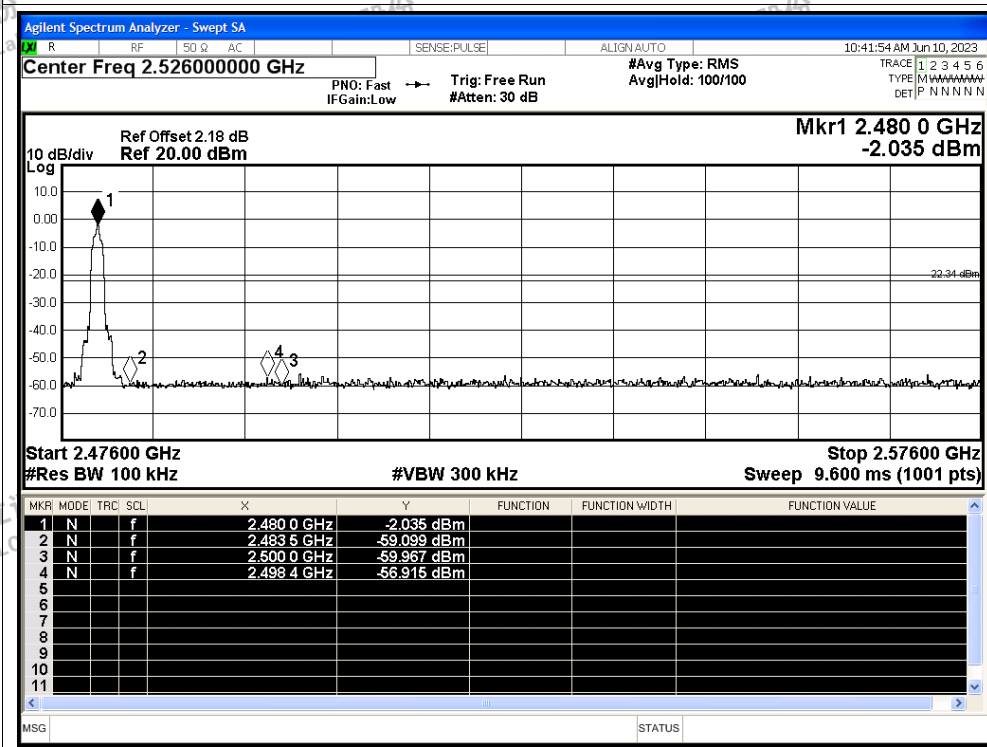




Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Ref



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





### (Hopping)

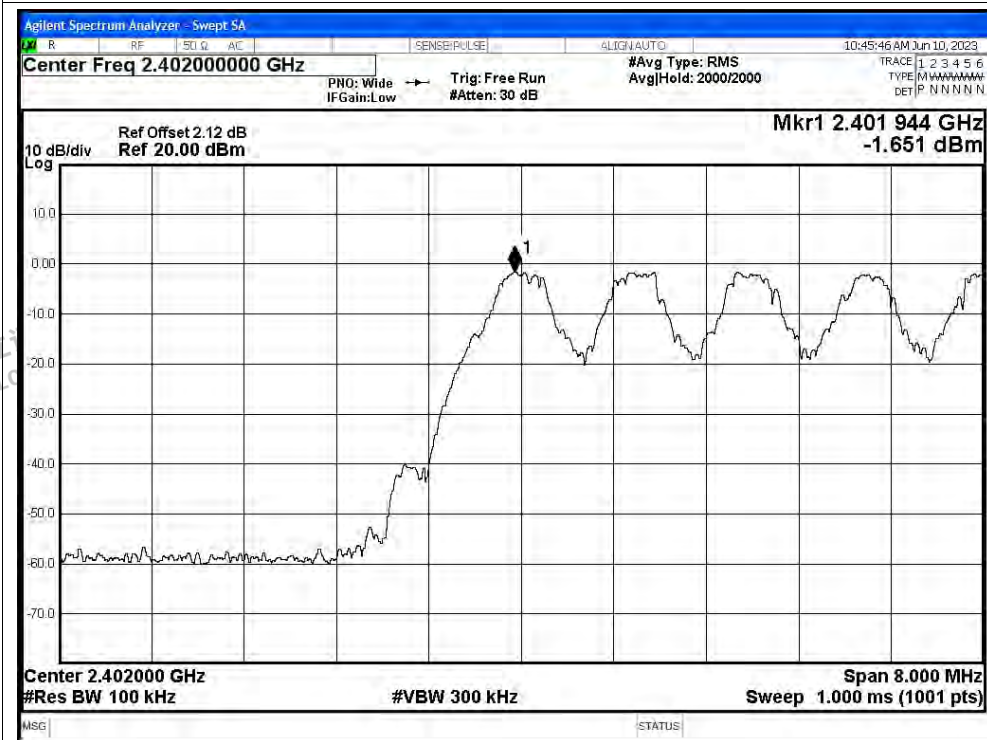
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-54.59	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-54.55	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-53.67	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-52.25	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-51.59	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-53.71	-20	Pass



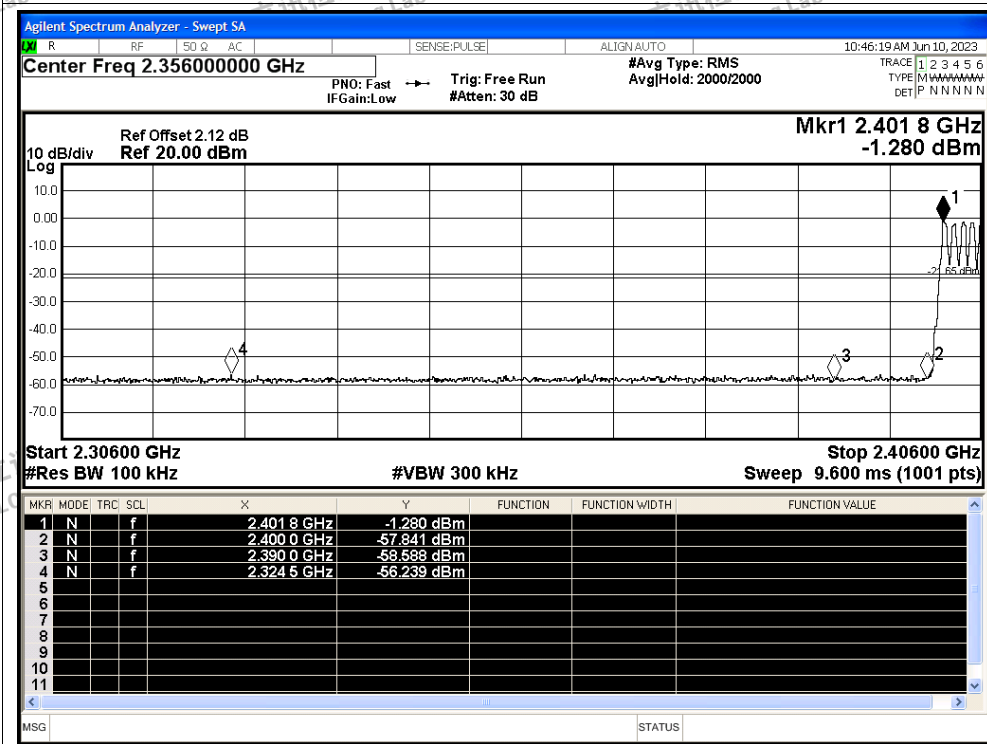


Test Graphs

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

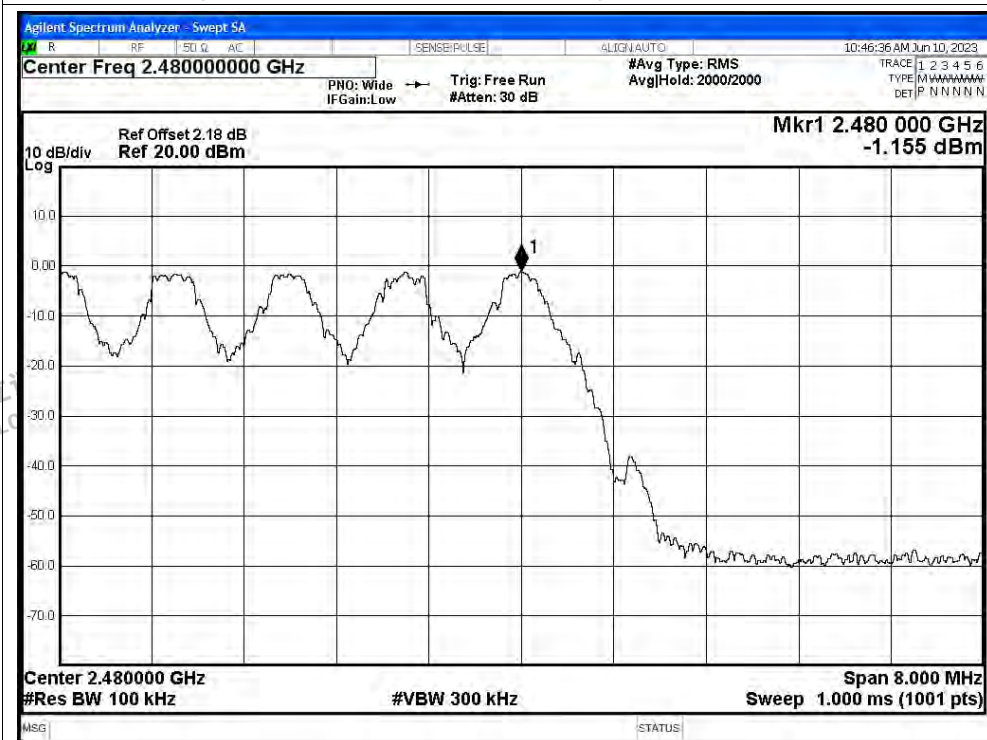


Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission

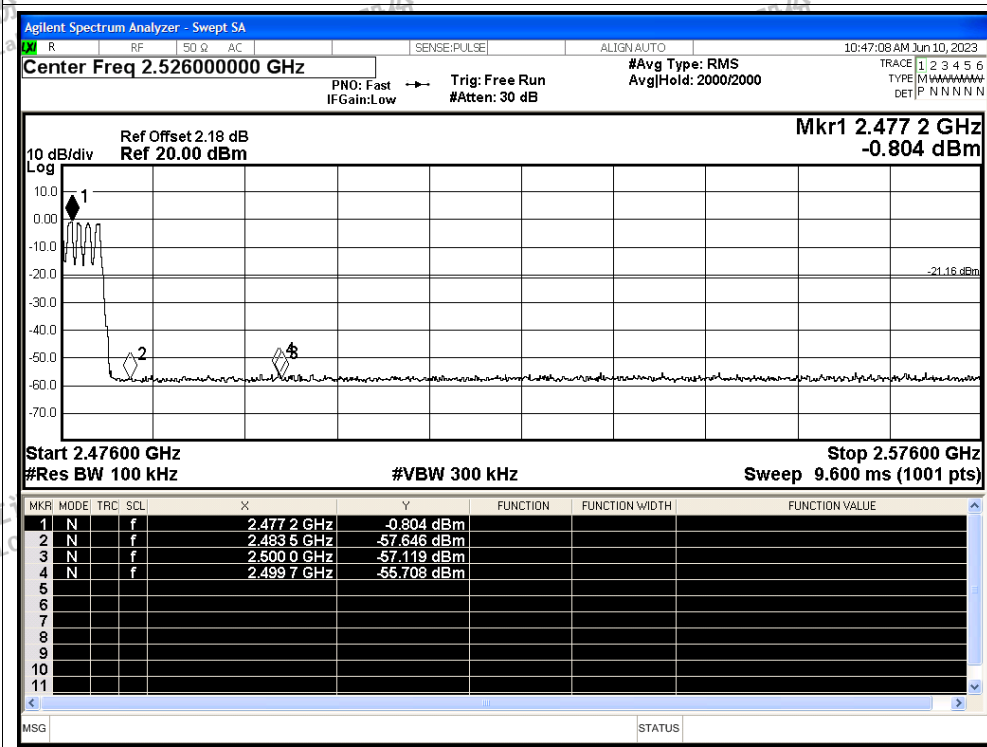




Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Ref

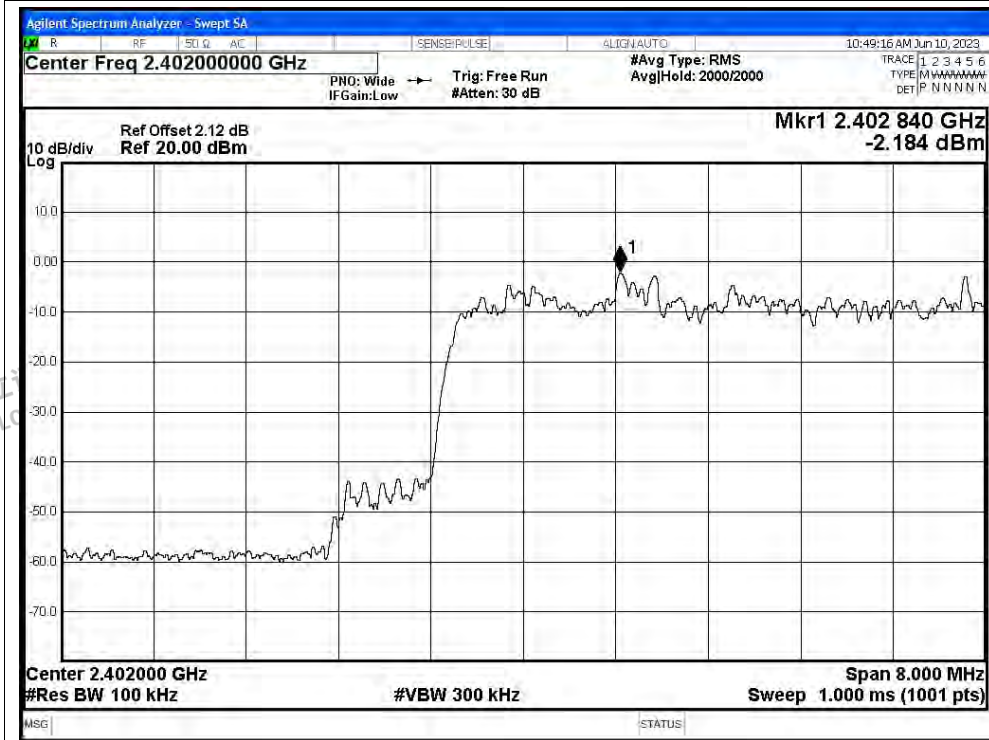


Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Emission

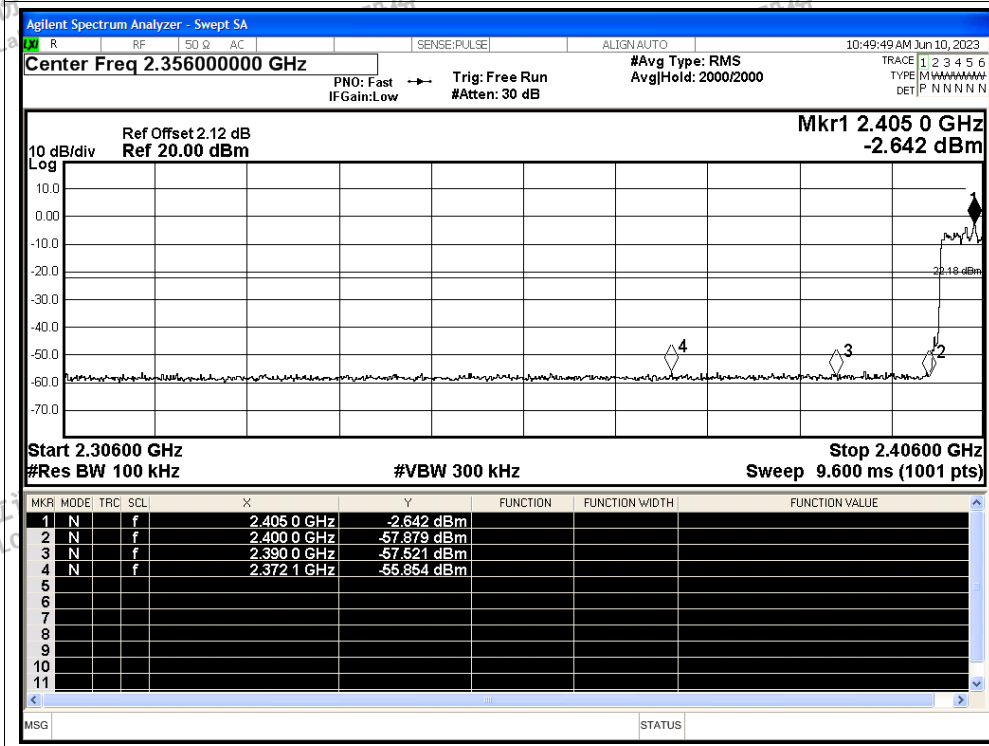




Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Ref



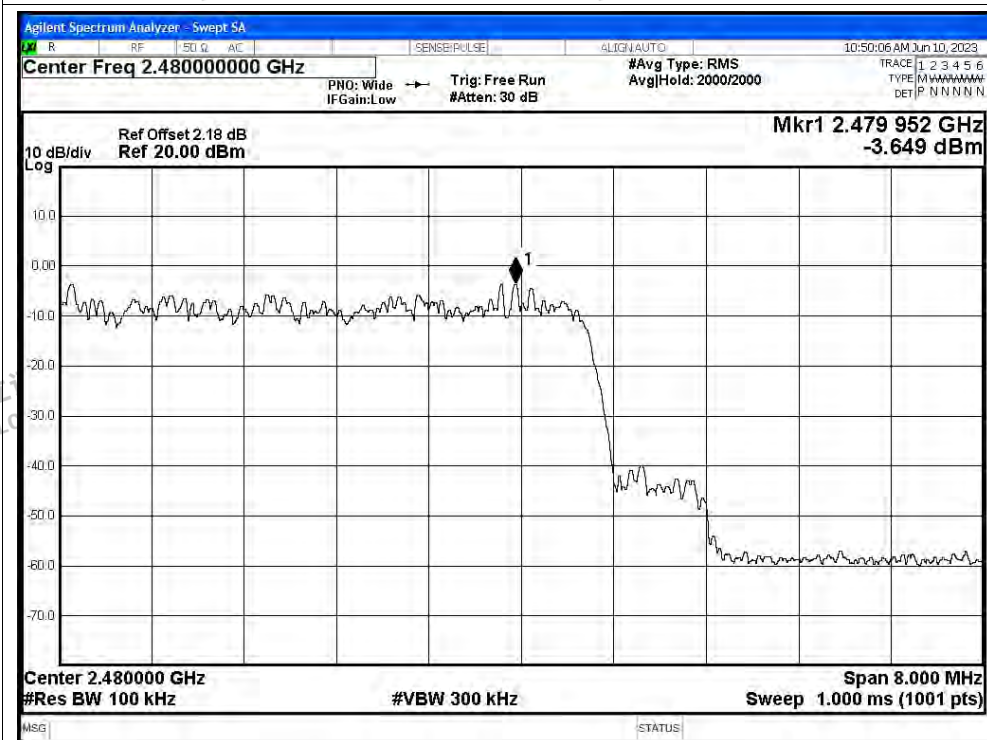
Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Emission



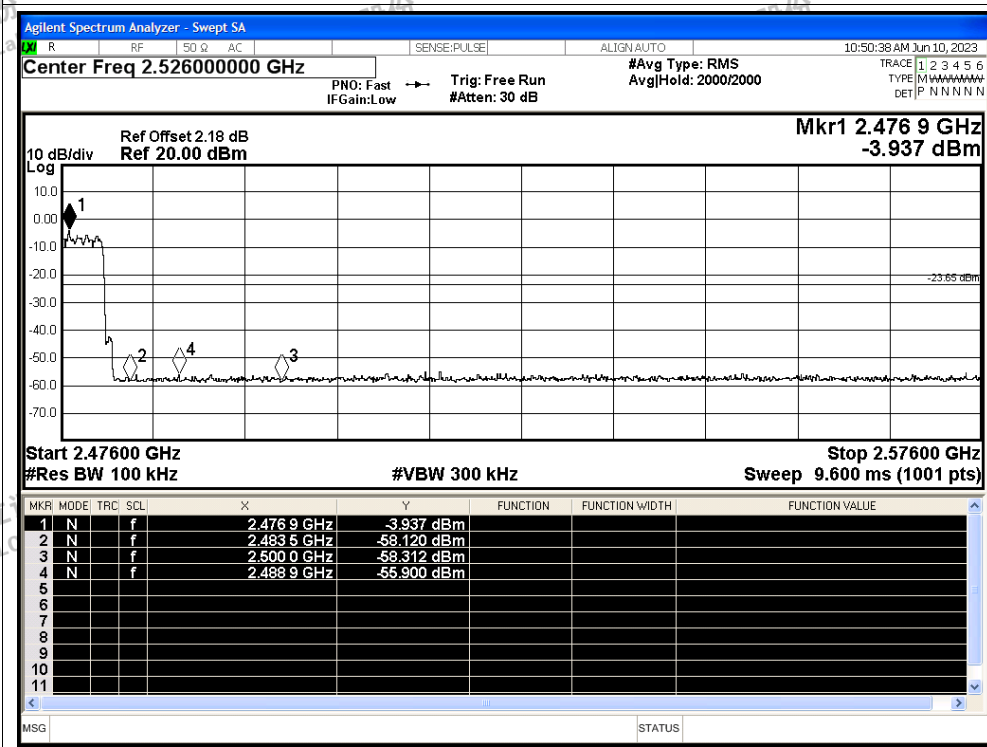




Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Ref

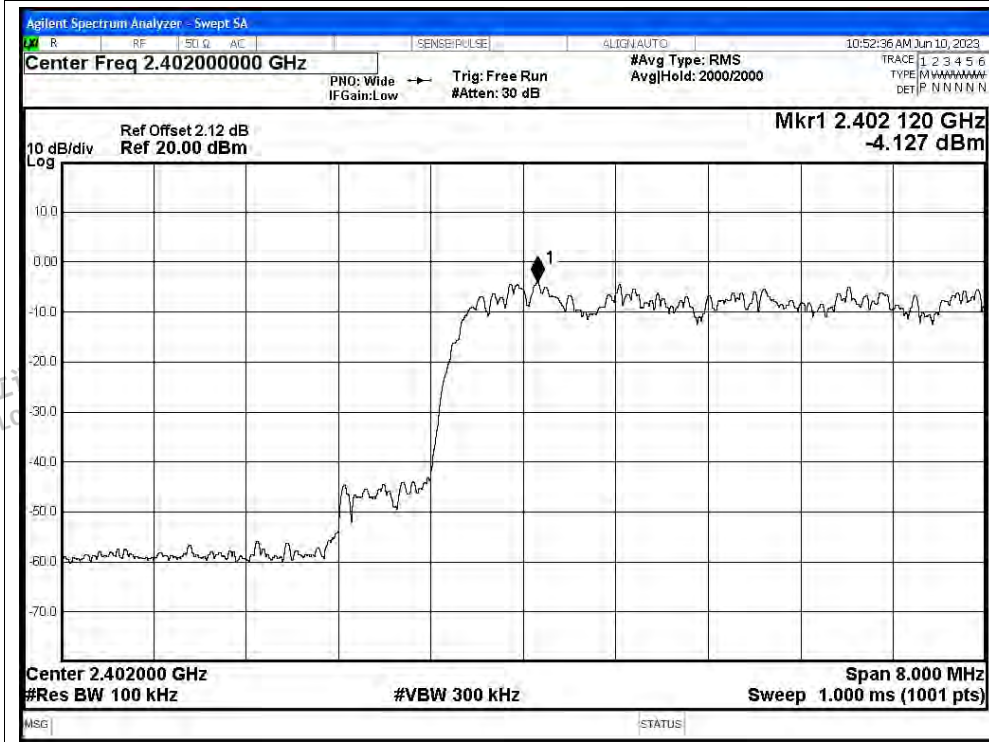


Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Emission

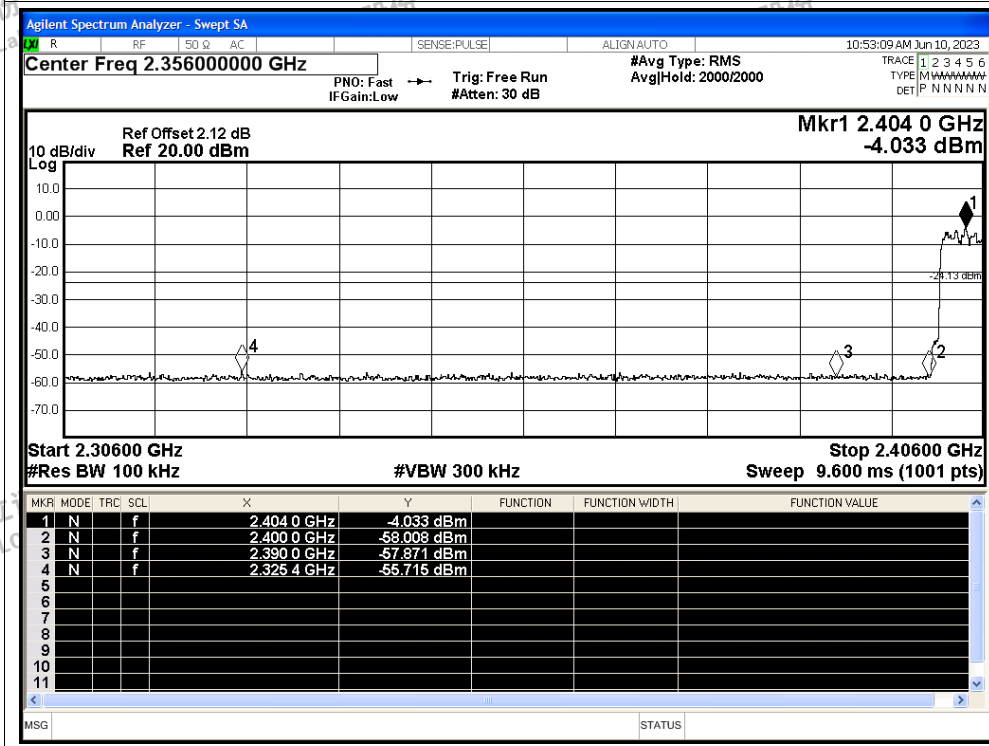




Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Ref



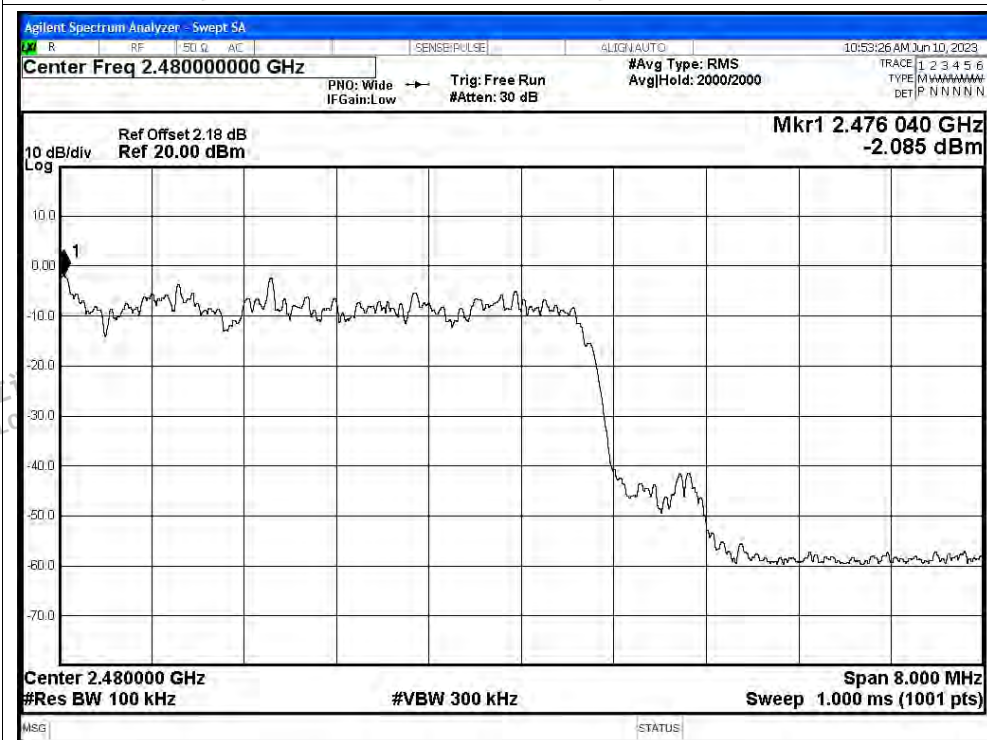
Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Emission



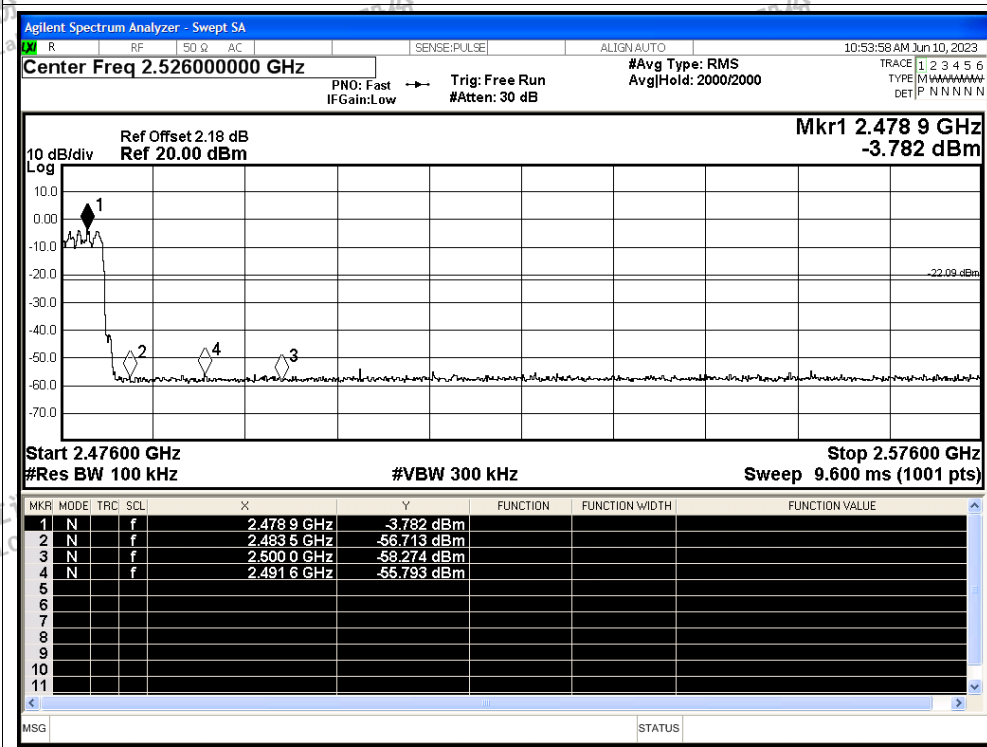




Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Ref



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





### A.7 Conducted RF Spurious Emission

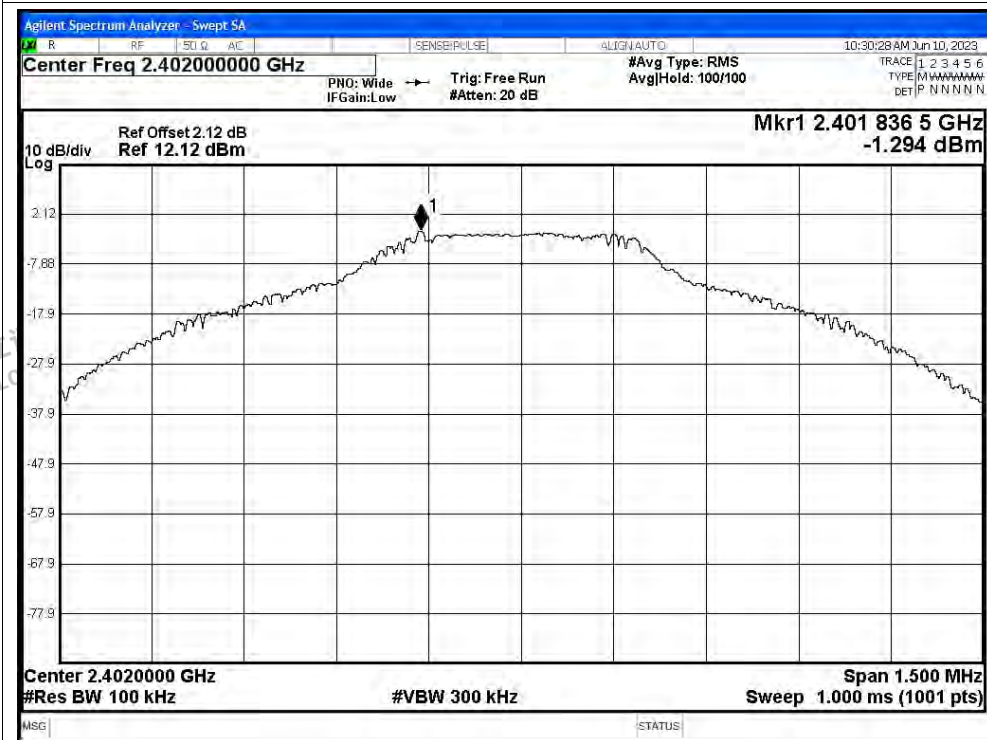
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-53.69	-20	Pass
NVNT	1-DH5	2441	Ant1	-53.63	-20	Pass
NVNT	1-DH5	2480	Ant1	-54.05	-20	Pass
NVNT	2-DH5	2402	Ant1	-52.16	-20	Pass
NVNT	2-DH5	2441	Ant1	-52.96	-20	Pass
NVNT	2-DH5	2480	Ant1	-51.81	-20	Pass
NVNT	3-DH5	2402	Ant1	-51.61	-20	Pass
NVNT	3-DH5	2441	Ant1	-52.9	-20	Pass
NVNT	3-DH5	2480	Ant1	-53.25	-20	Pass



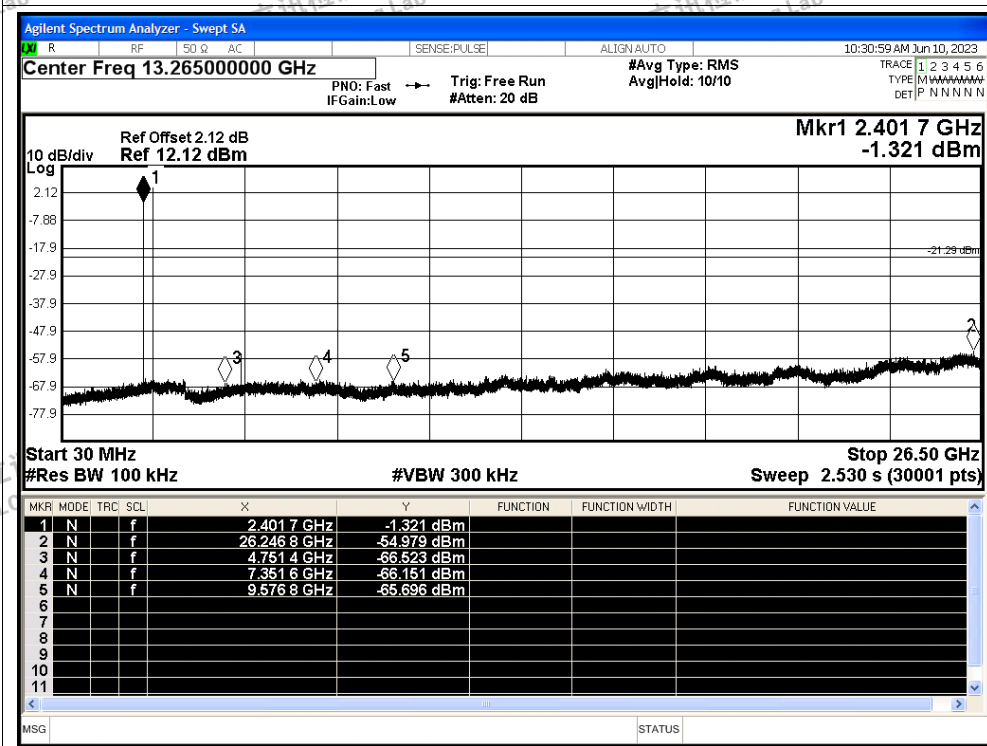


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref

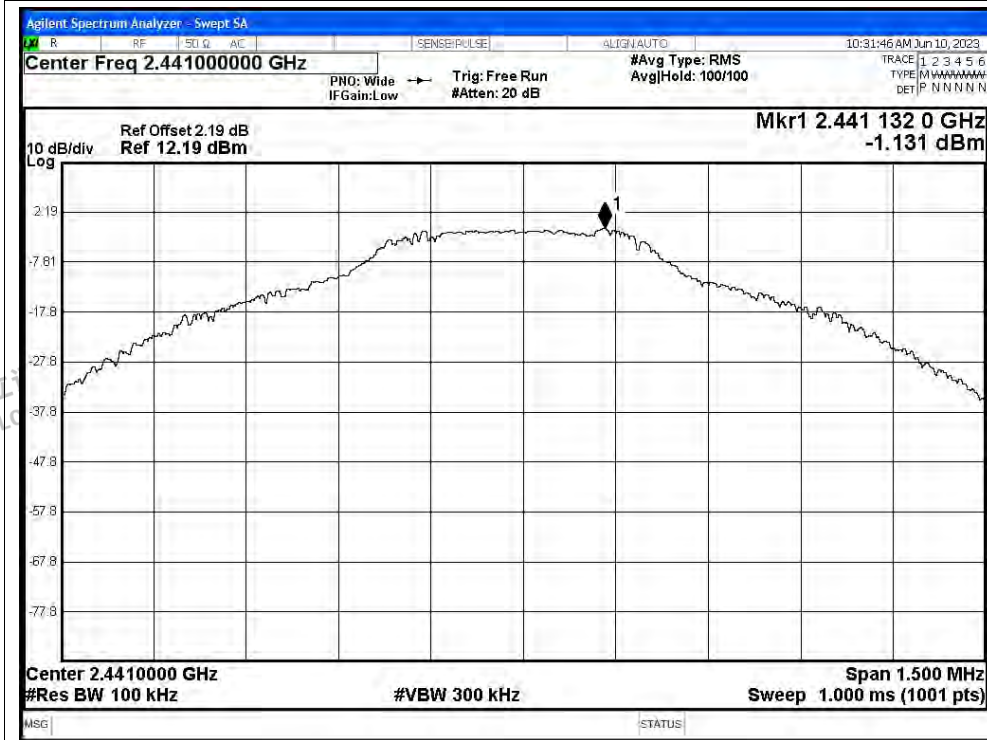


Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission

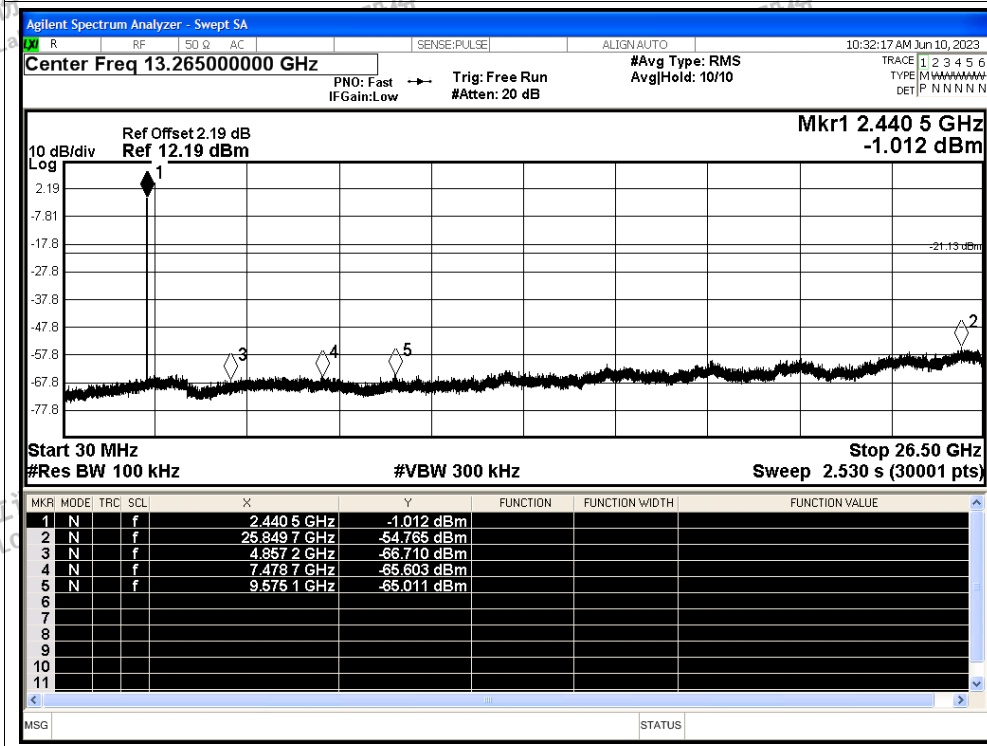




Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref

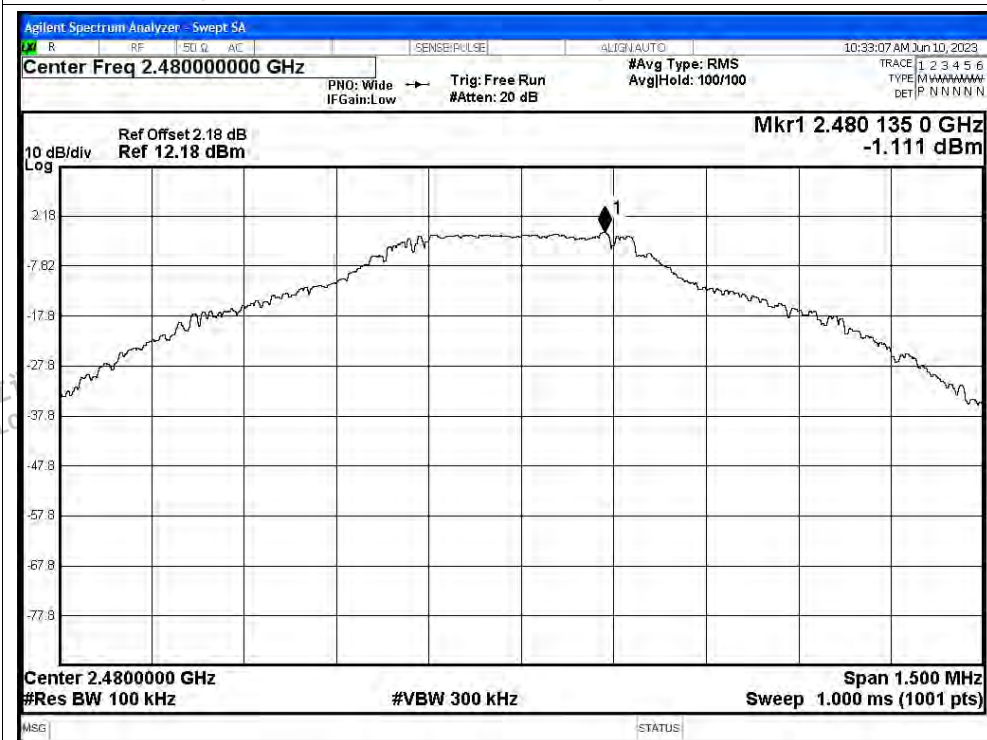


Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission

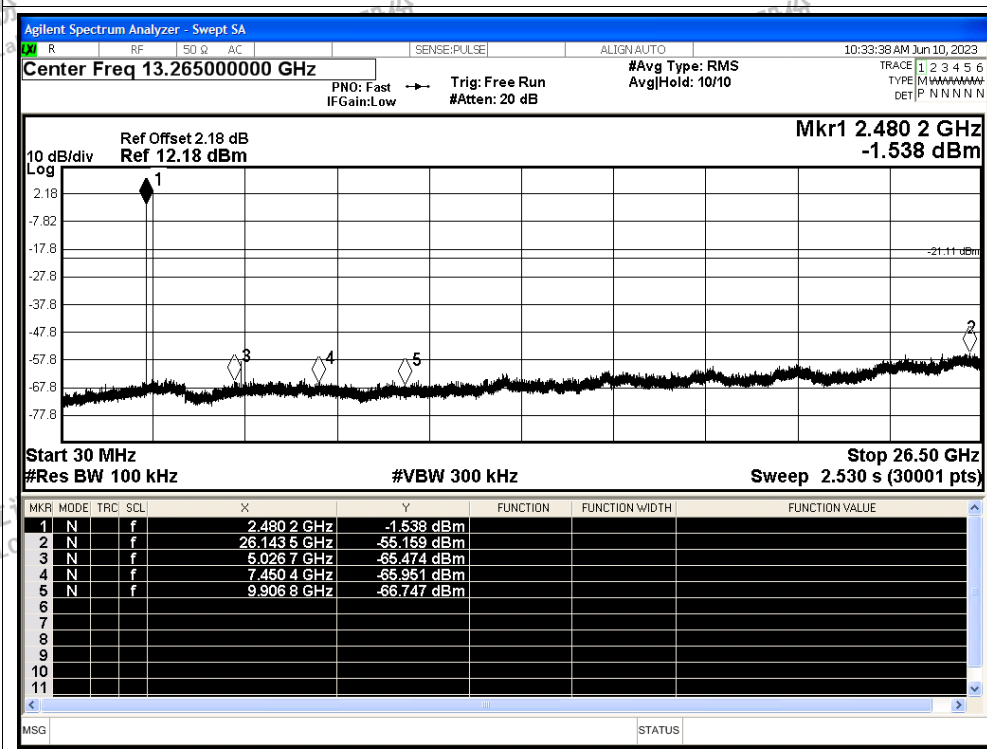




Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref



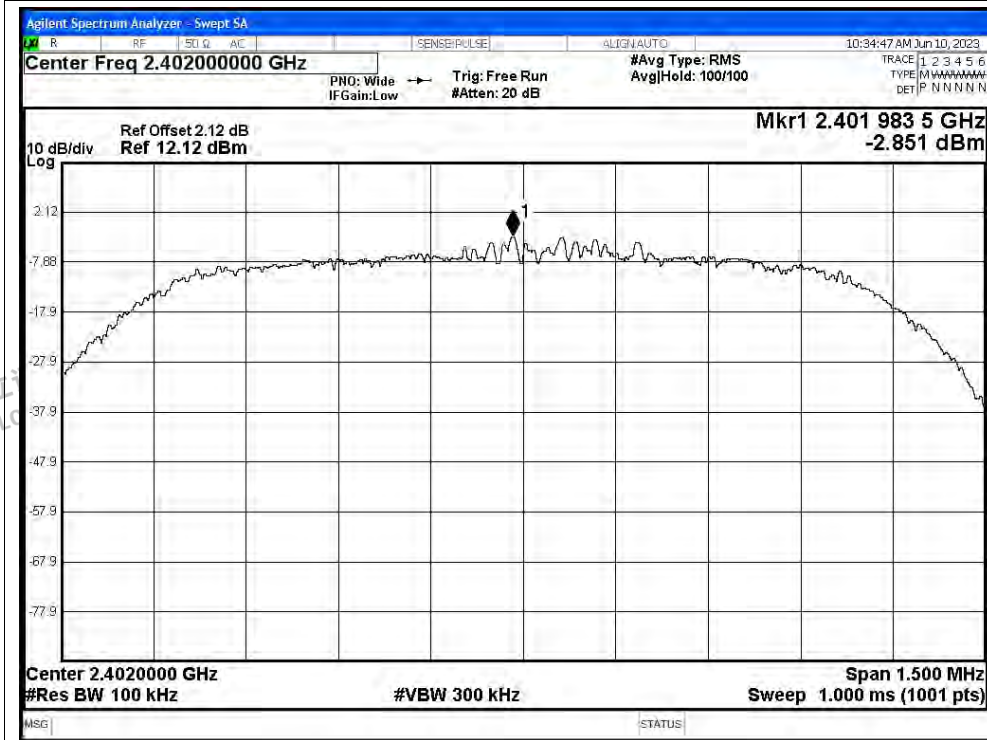
Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission



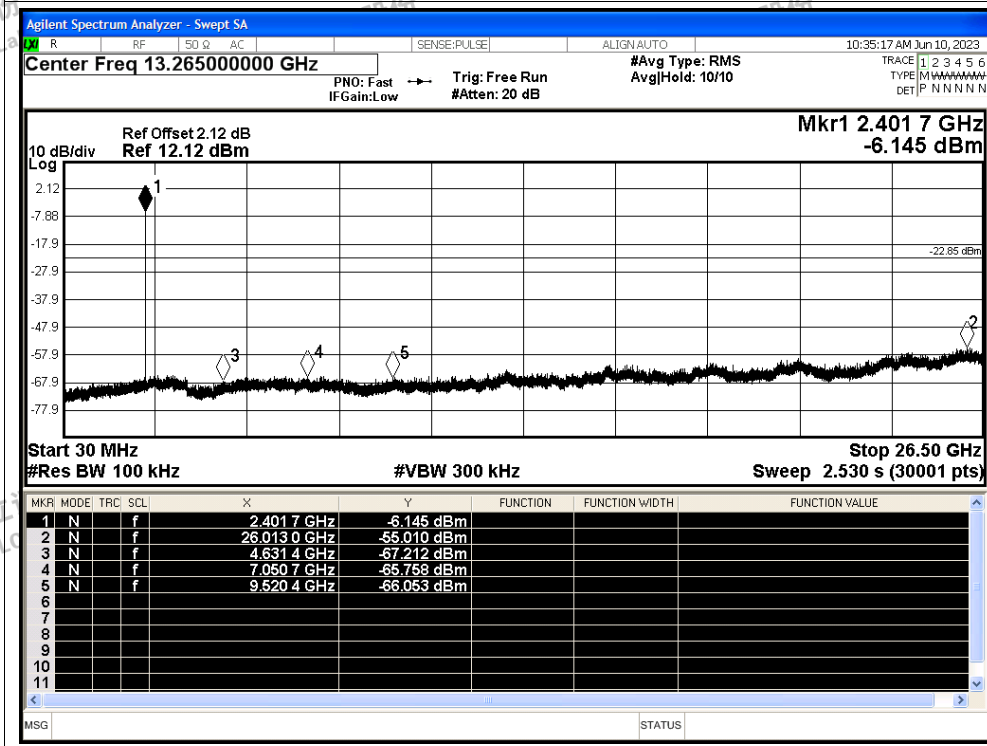




Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref



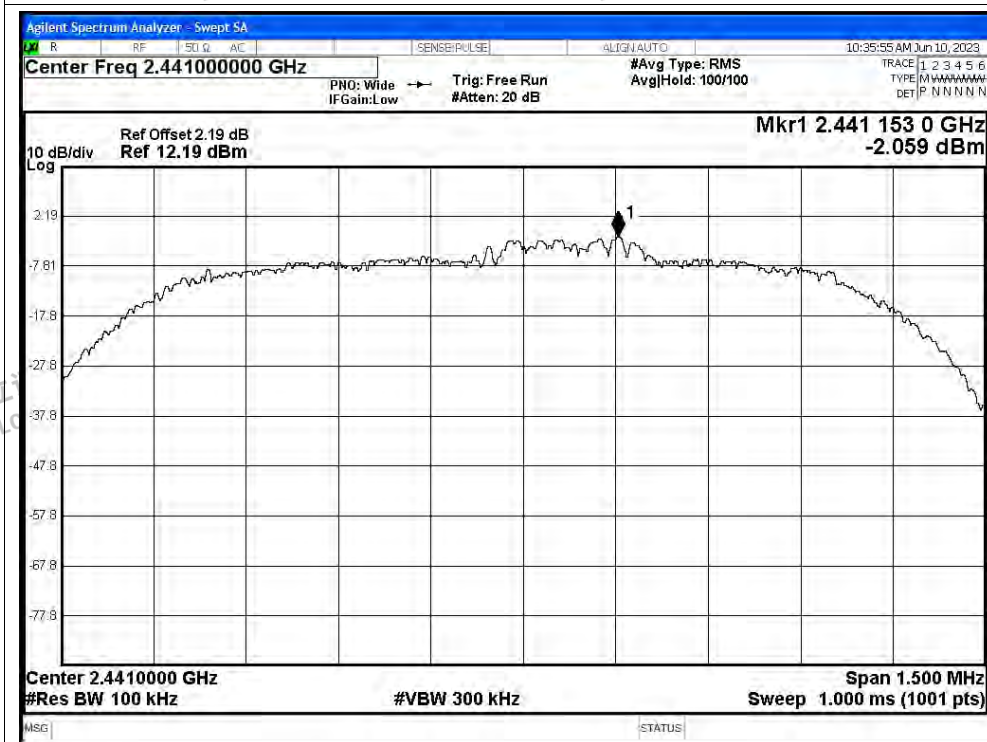
Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission



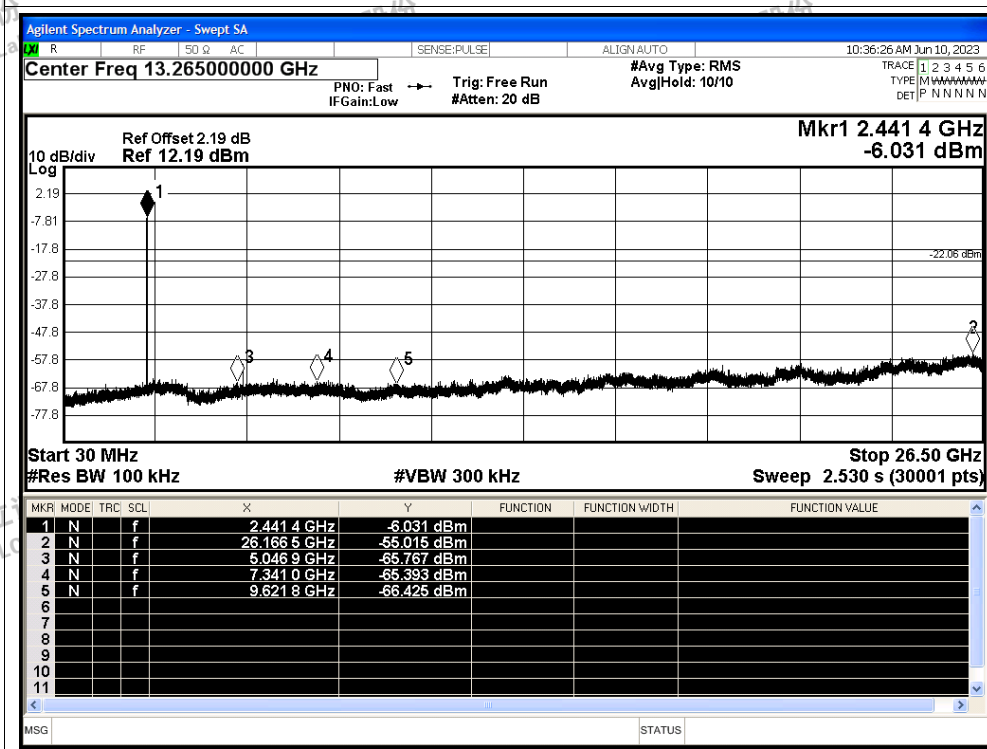




Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref

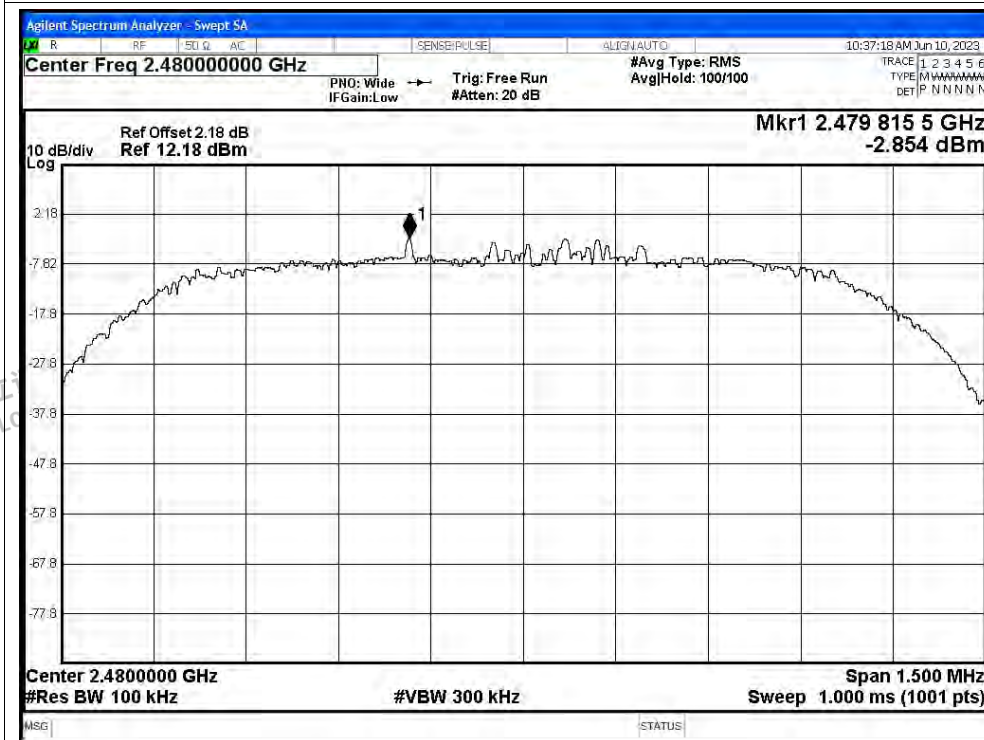


Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission

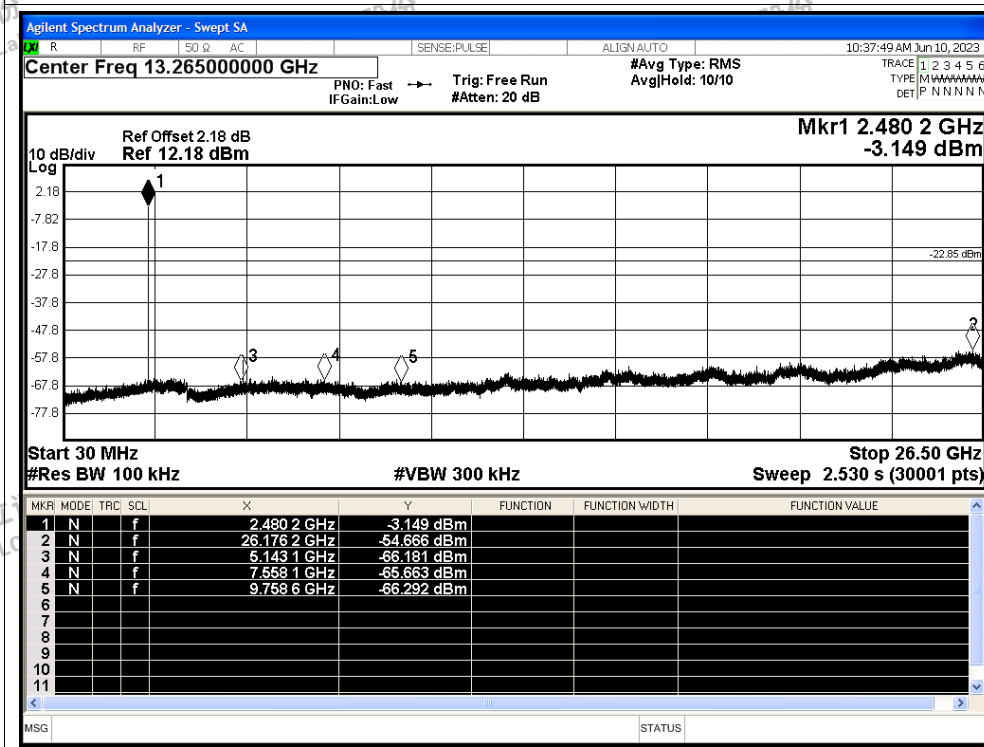




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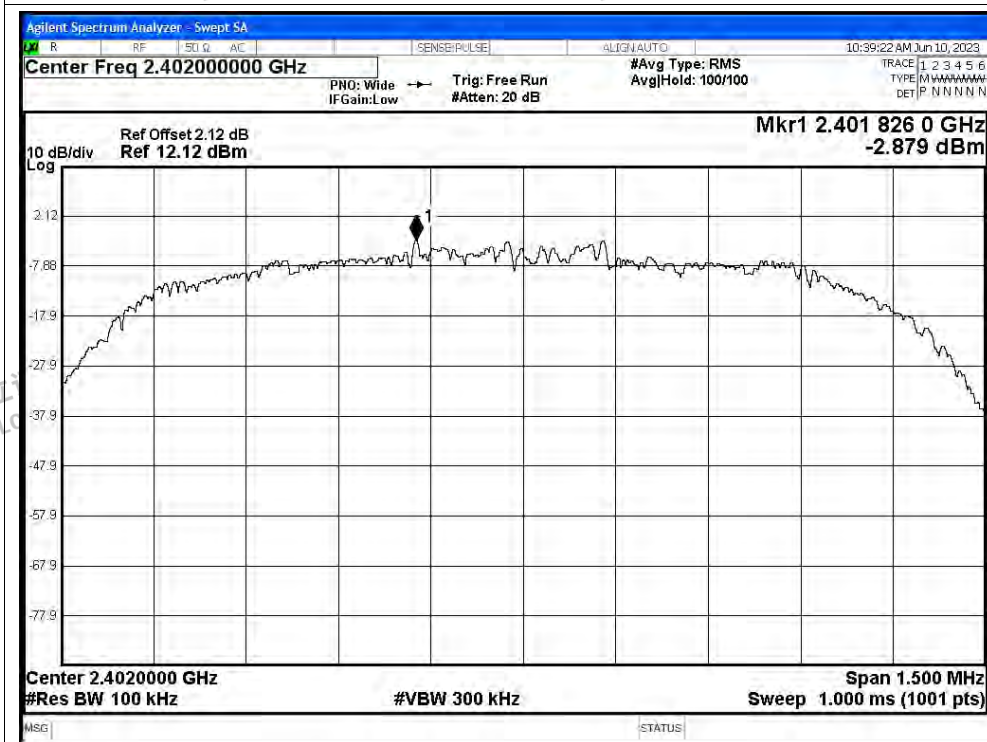


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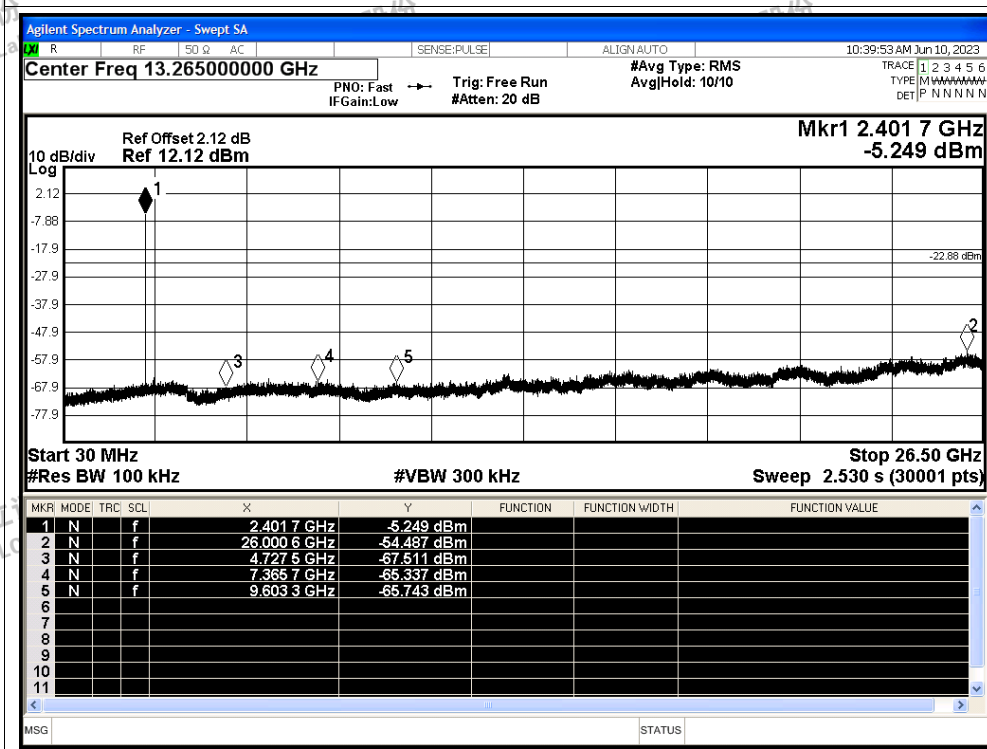




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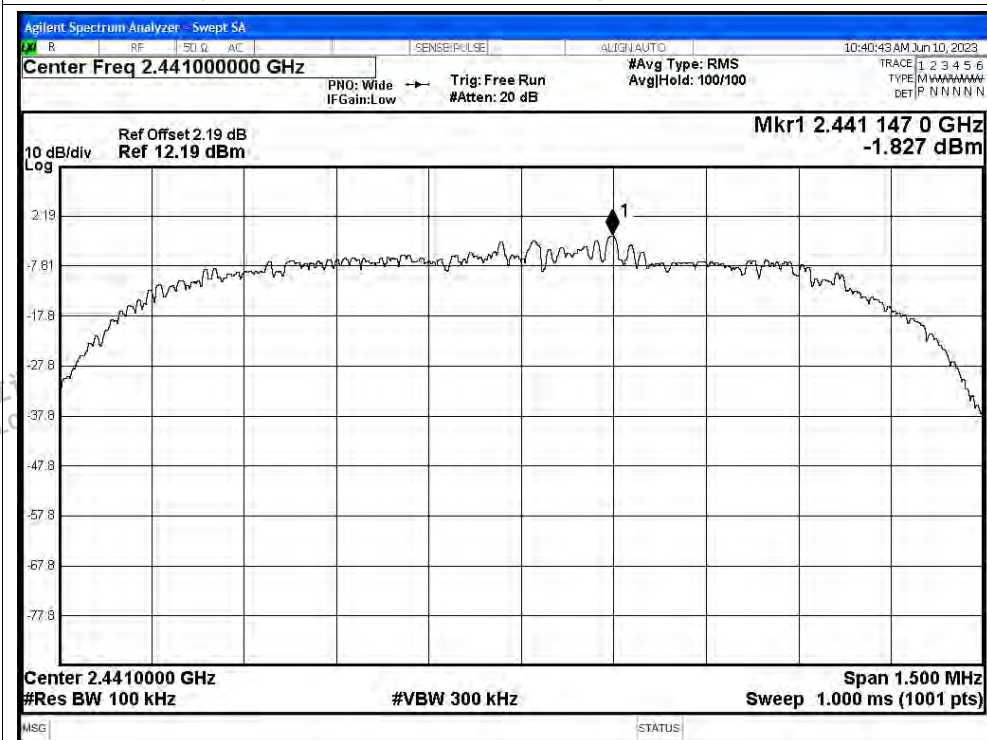


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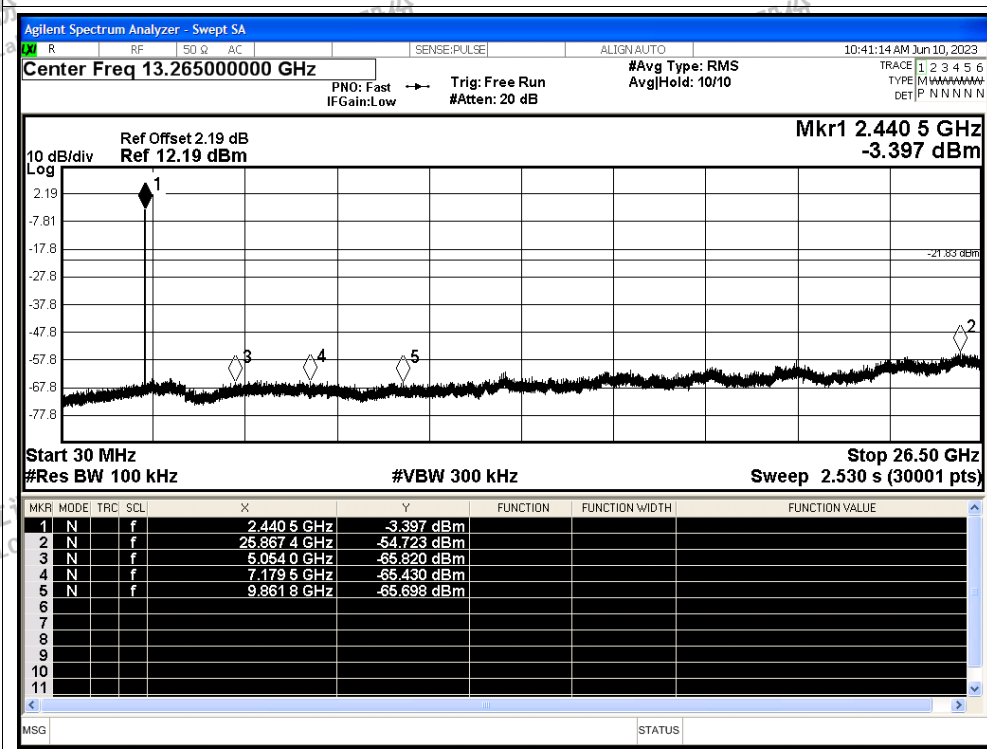




Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Ref



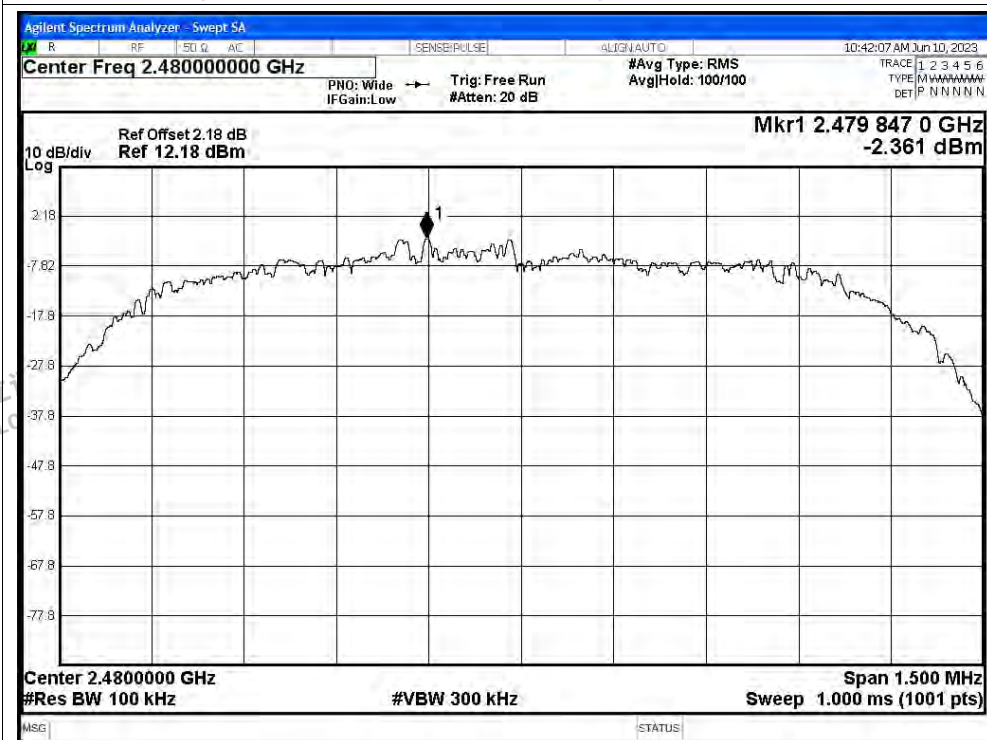
Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Emission



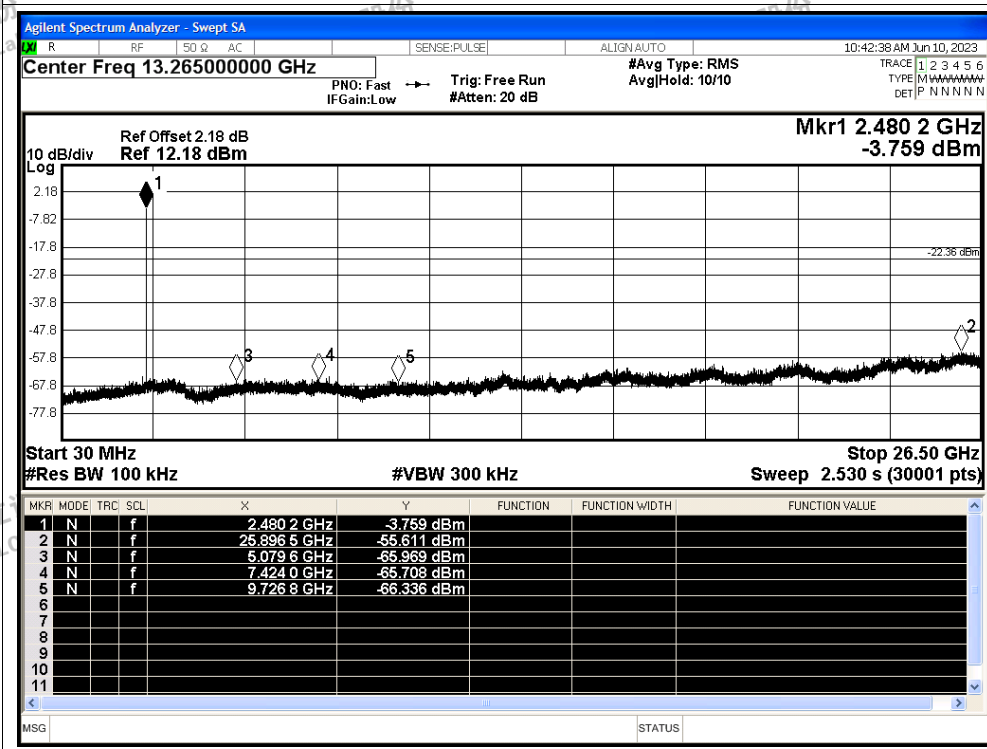




Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



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	-52.19	2	45.07	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-57.86	2	39.4	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2386.032	-46.77	2	50.49	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2388.336	-57.37	2	39.89	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-48.98	2	48.28	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-57.58	2	39.68	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-50.13	2	47.13	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-56.1	2	41.16	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2492.416	-46.37	2	50.89	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.512	-56.1	2	41.16	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-49.48	2	47.78	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-57.32	2	39.94	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-51.43	2	45.83	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-57.96	2	39.3	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2372.016	-47.25	2	50.01	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2380.56	-57.32	2	39.94	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-50.92	2	46.34	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-57.59	2	39.67	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-49.9	2	47.36	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-55.9	2	41.36	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2495.224	-46.8	2	50.46	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.512	-55.9	2	41.36	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-50.66	2	46.6	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-57.25	2	40.01	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-51.33	2	45.93	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-57.98	2	39.28	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2342.832	-47.59	2	49.67	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2384.112	-57.43	2	39.83	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-50.32	2	46.94	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-57.61	2	39.65	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-50.72	2	46.54	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-55.89	2	41.37	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2493.832	-47.19	2	50.07	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.512	-55.89	2	41.37	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-49.9	2	47.36	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-57.29	2	39.97	Average	54	Pass

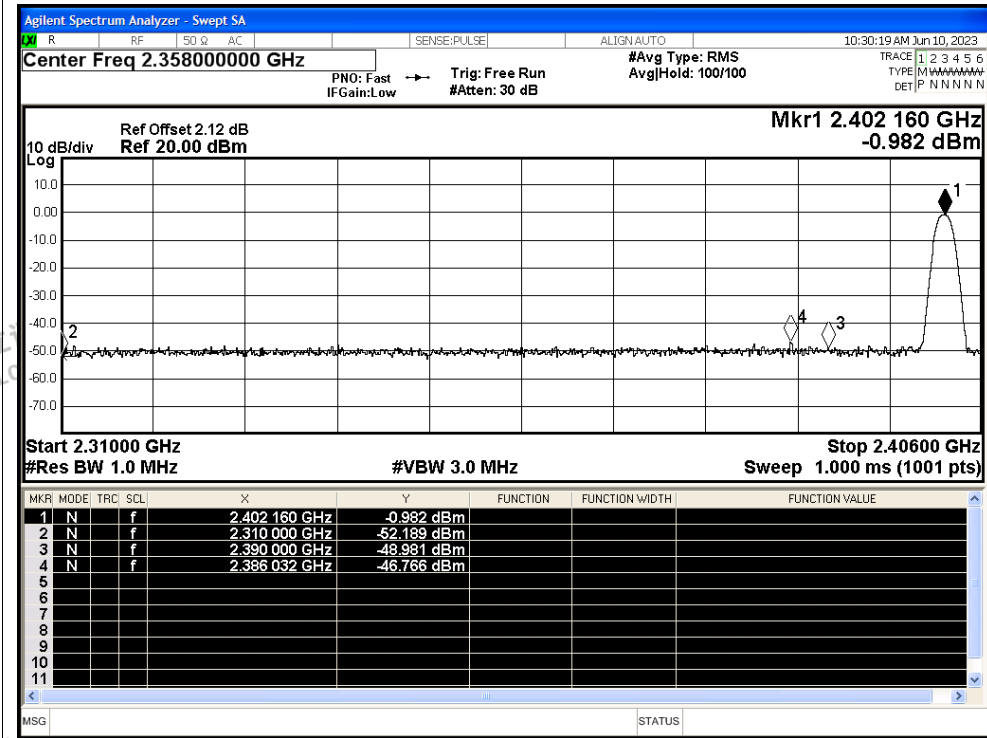




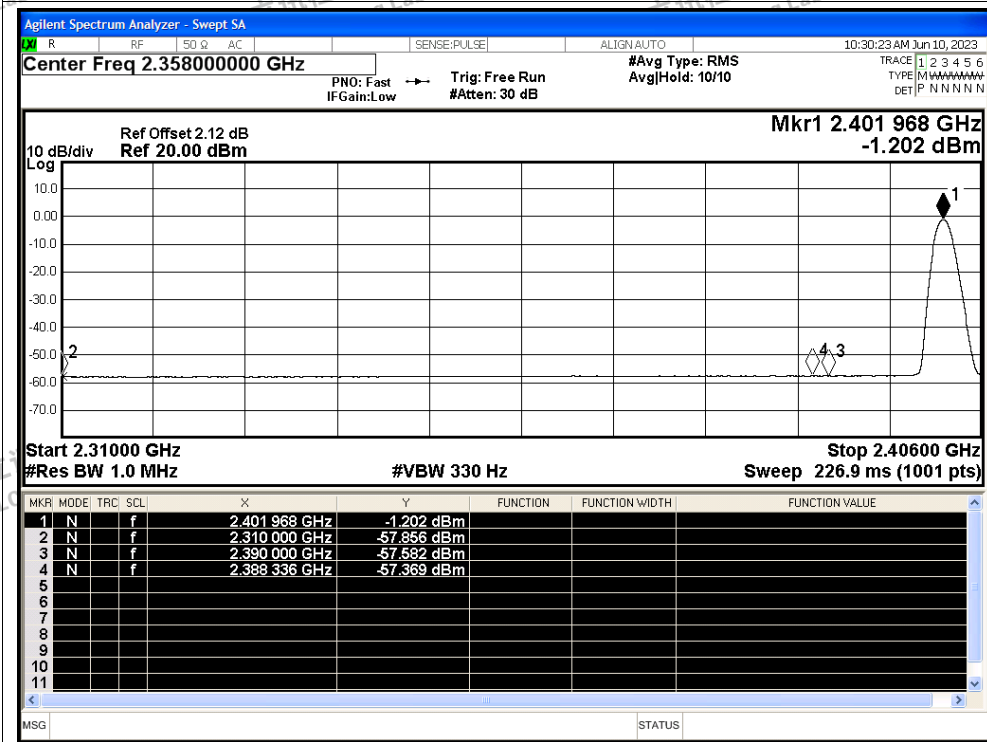


Test Graphs

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

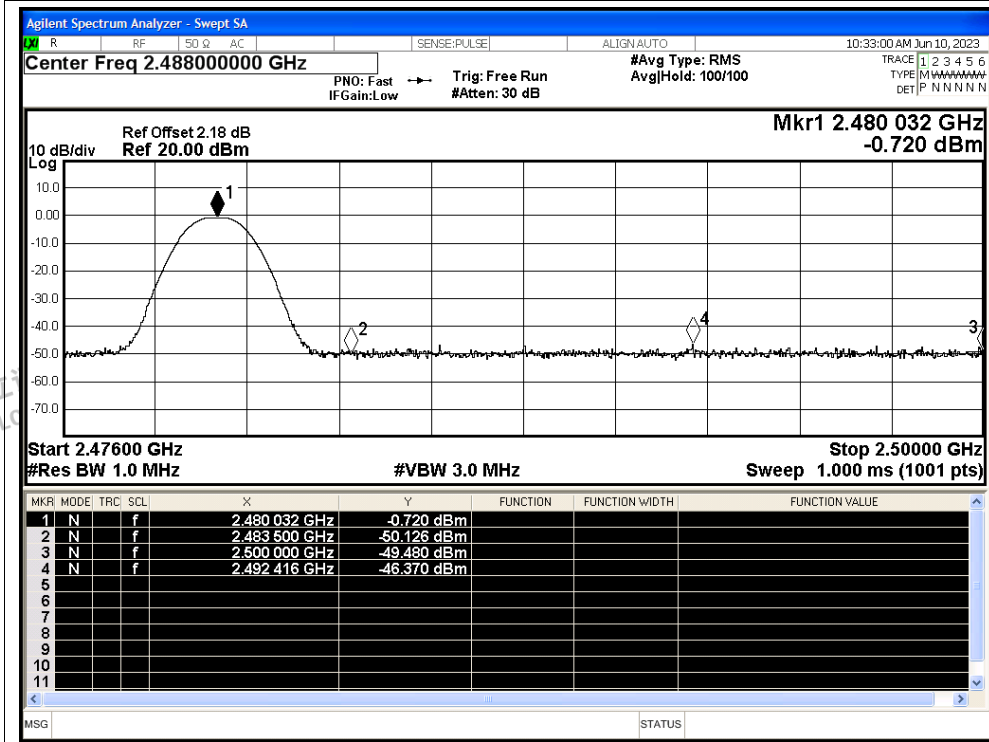


Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Average

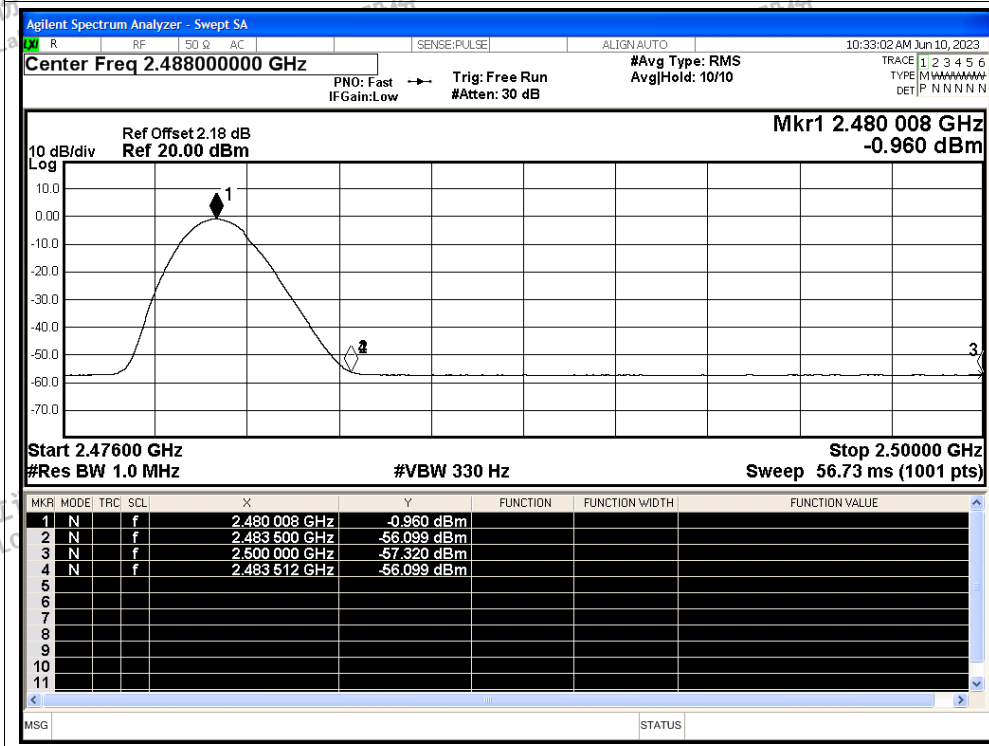




Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Peak

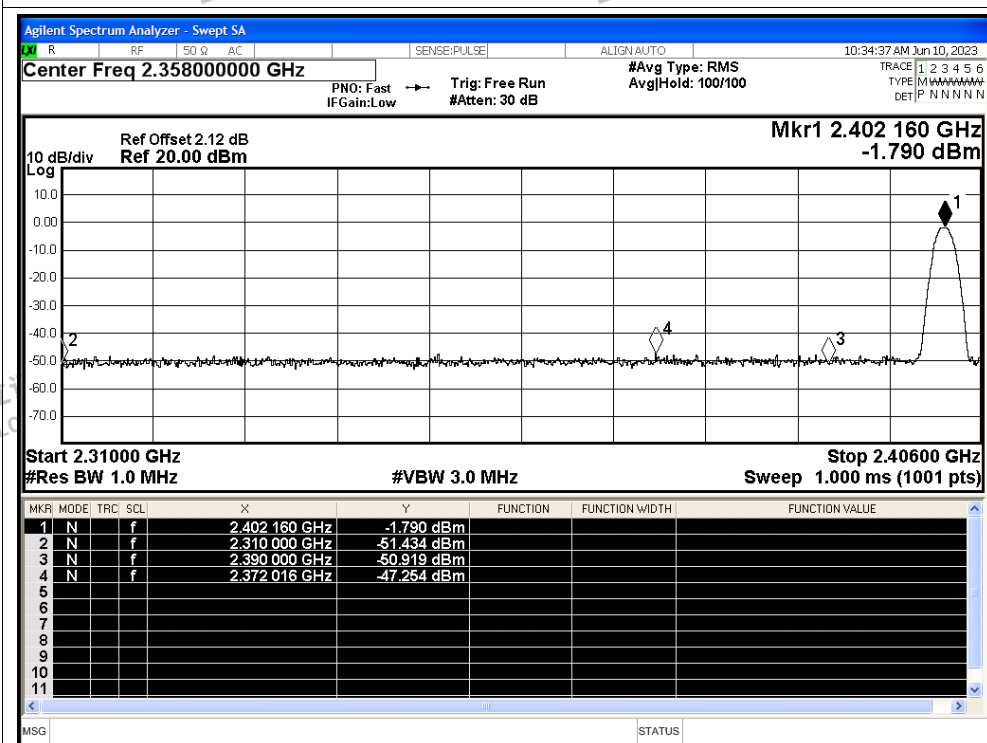


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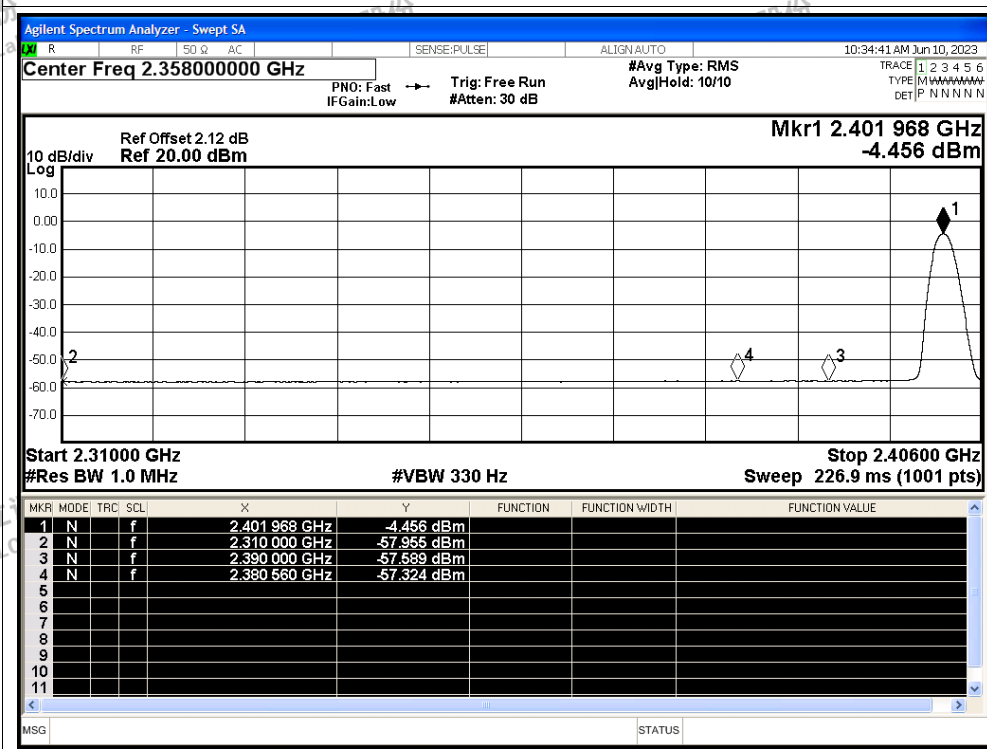




Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Peak

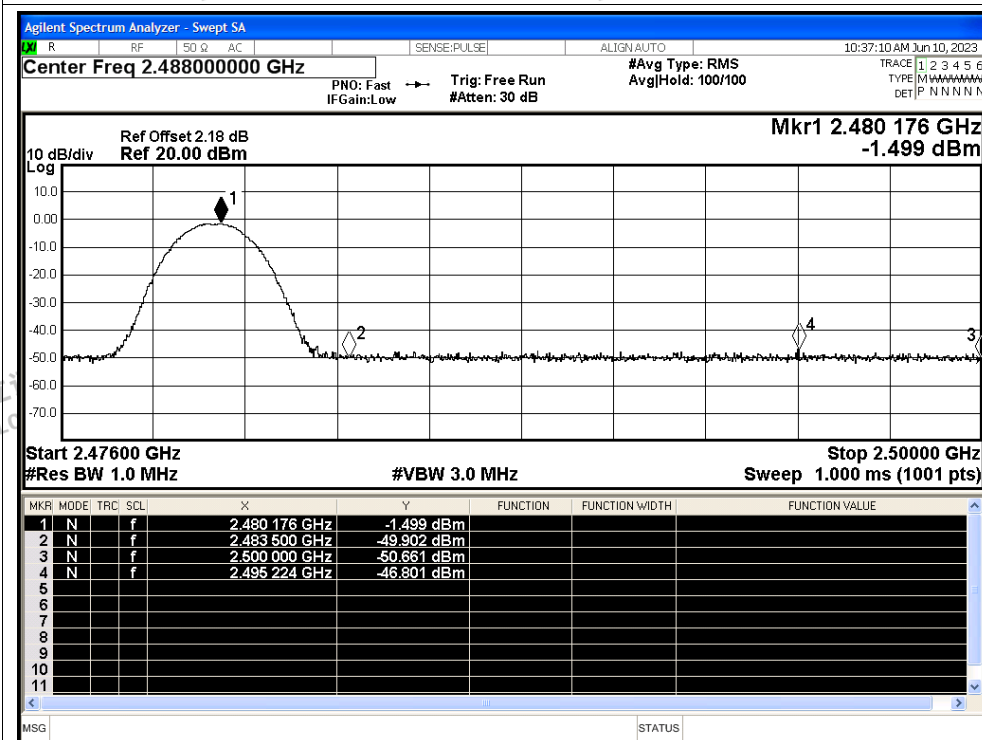


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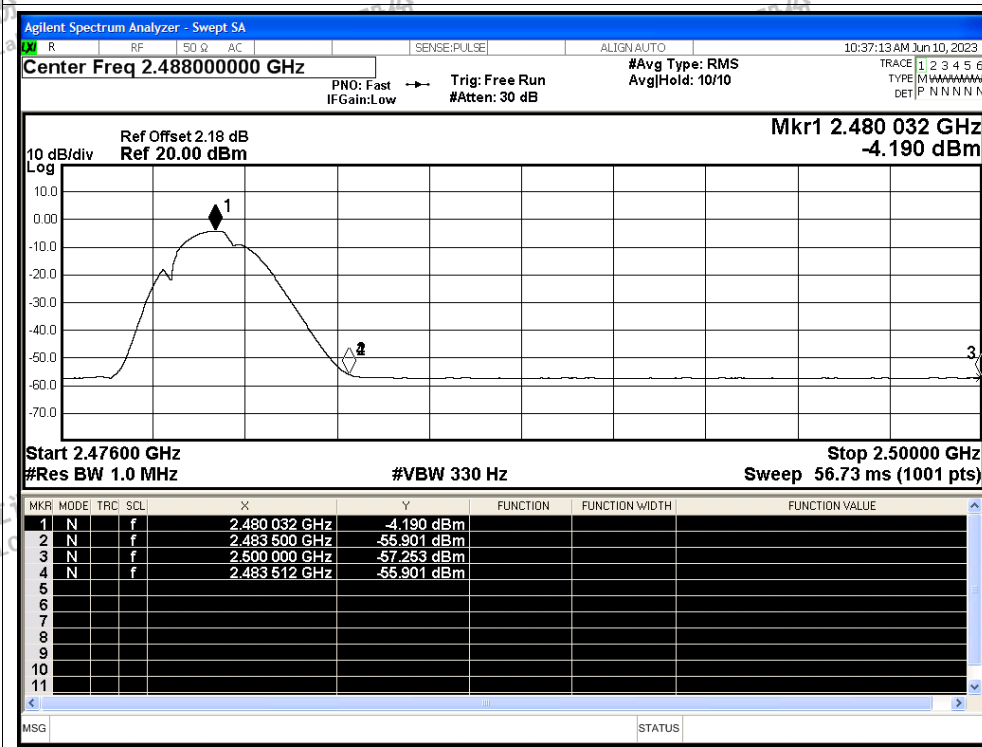




Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Peak

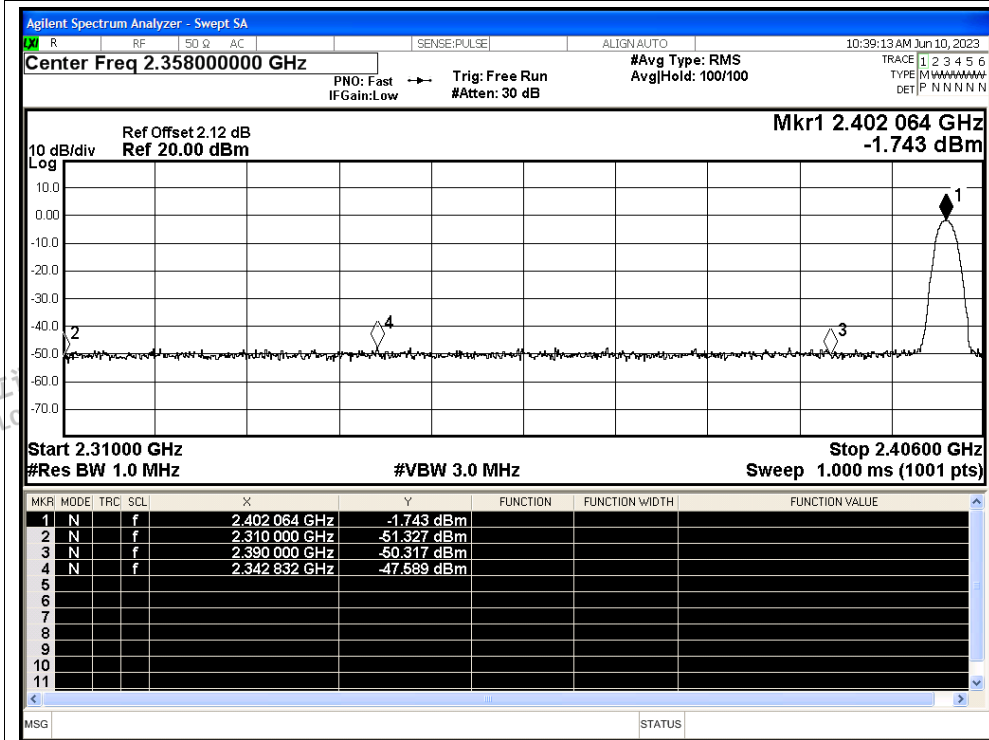


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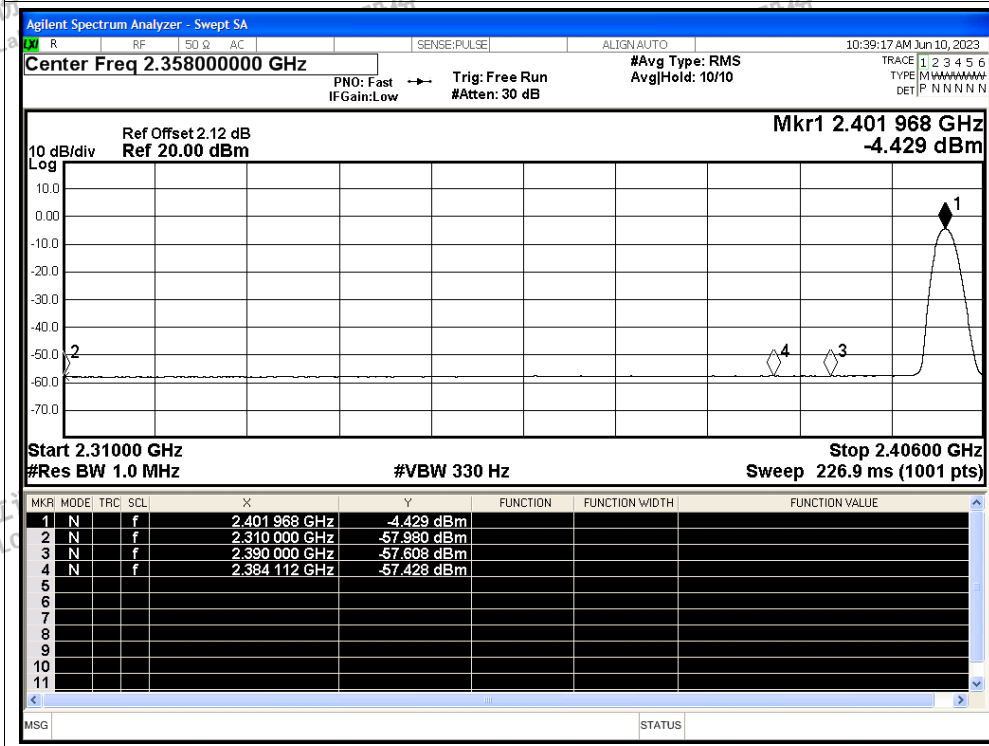




Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Peak



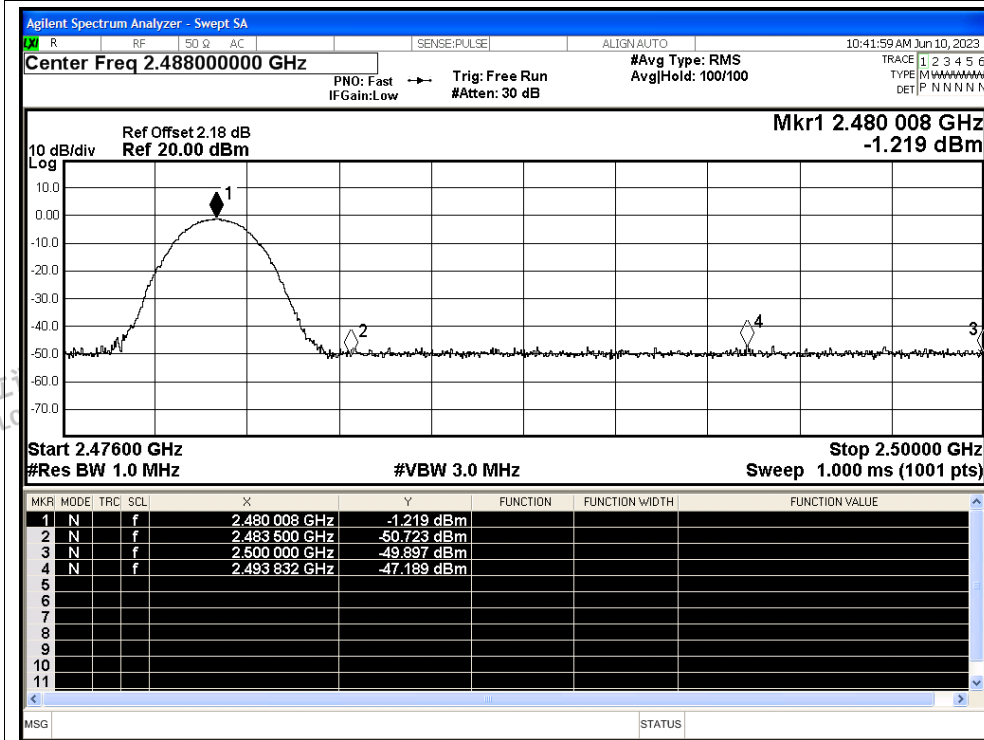
Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Average







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



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

