



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Massage Chair

Test Model: HL-6100

Environmental Conditions

Temperature:	23.8° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Eason Zhou
Supervised by:	Nick Peng



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A.1 -20dB Bandwidth

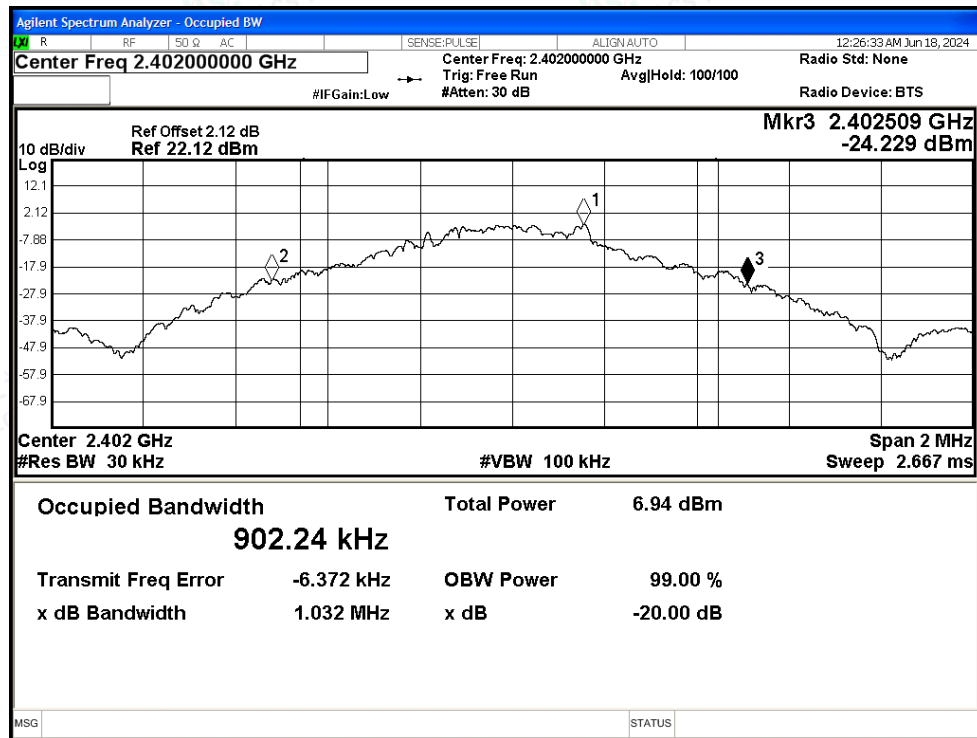
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	1.032	N/A	Pass
NVNT	1-DH5	2441	Ant1	0.964	N/A	Pass
NVNT	1-DH5	2480	Ant1	1.026	N/A	Pass
NVNT	2-DH5	2402	Ant1	1.304	N/A	Pass
NVNT	2-DH5	2441	Ant1	1.278	N/A	Pass
NVNT	2-DH5	2480	Ant1	1.273	N/A	Pass



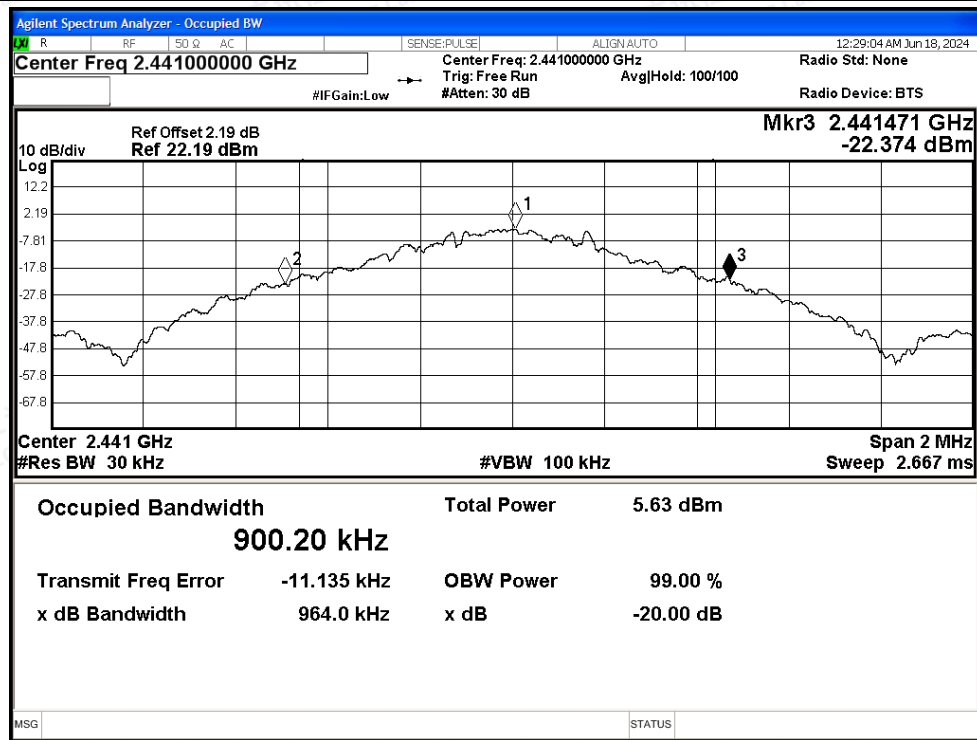


Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1

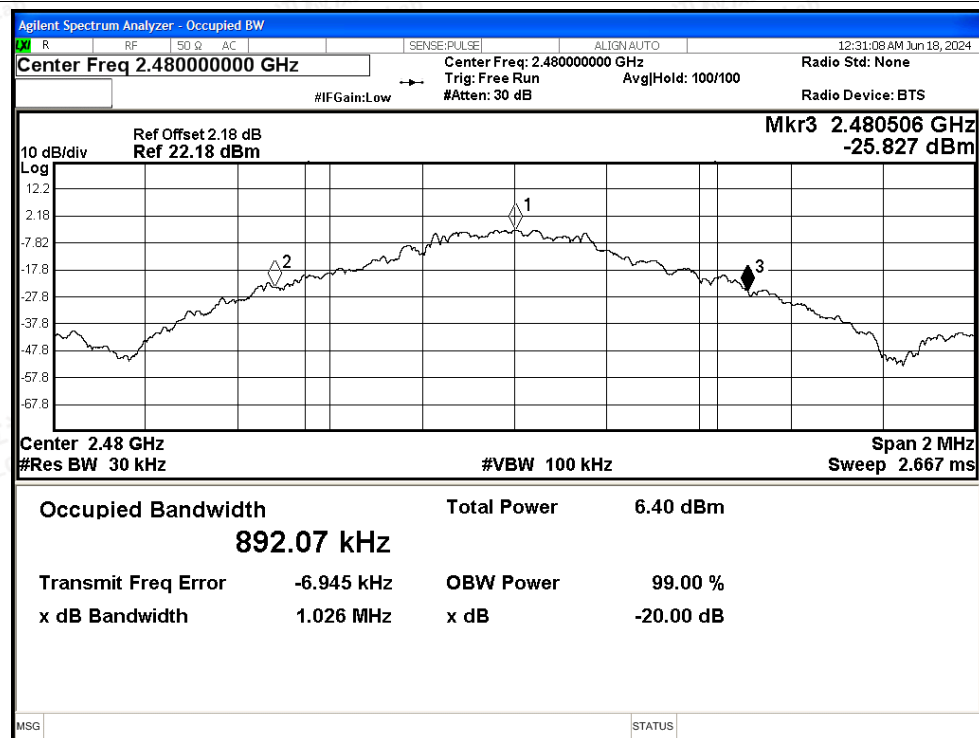


-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1

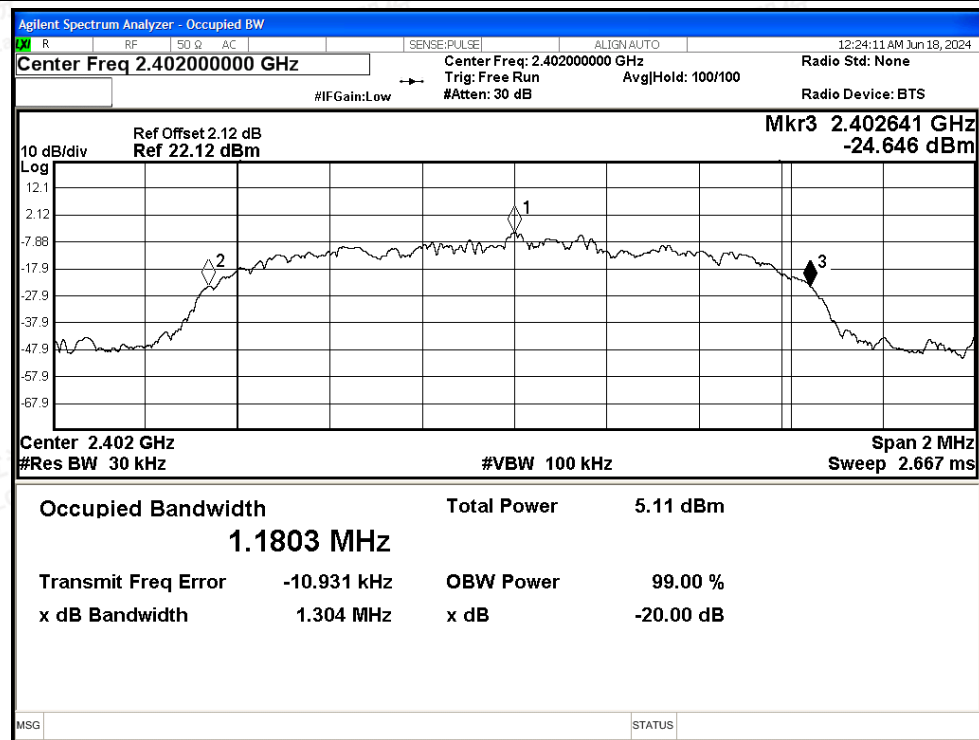




-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1

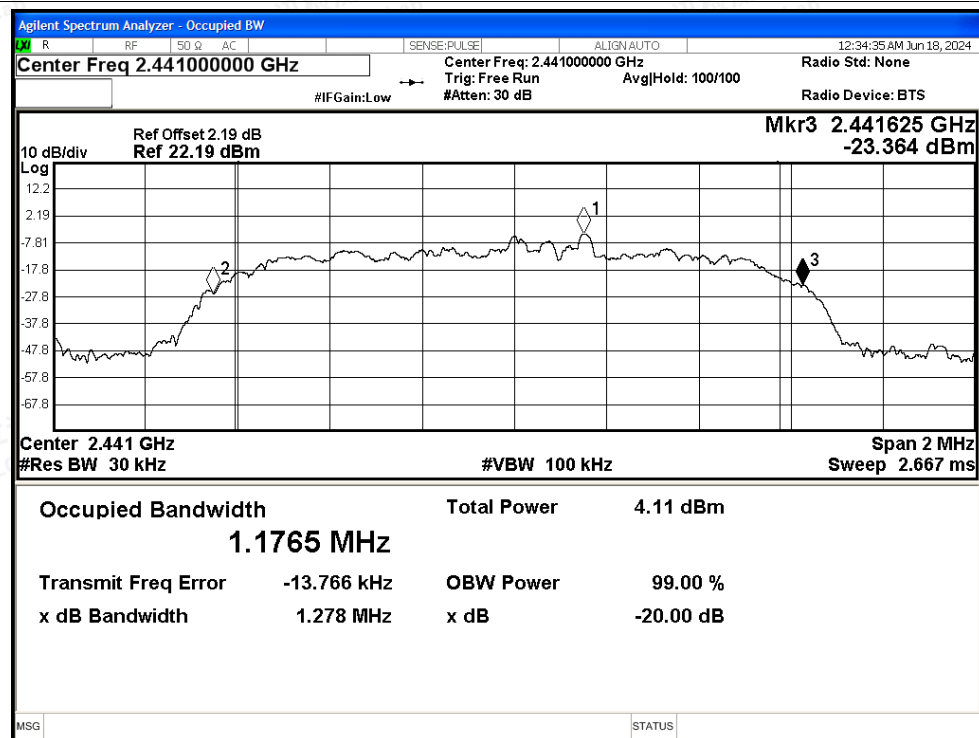


-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1

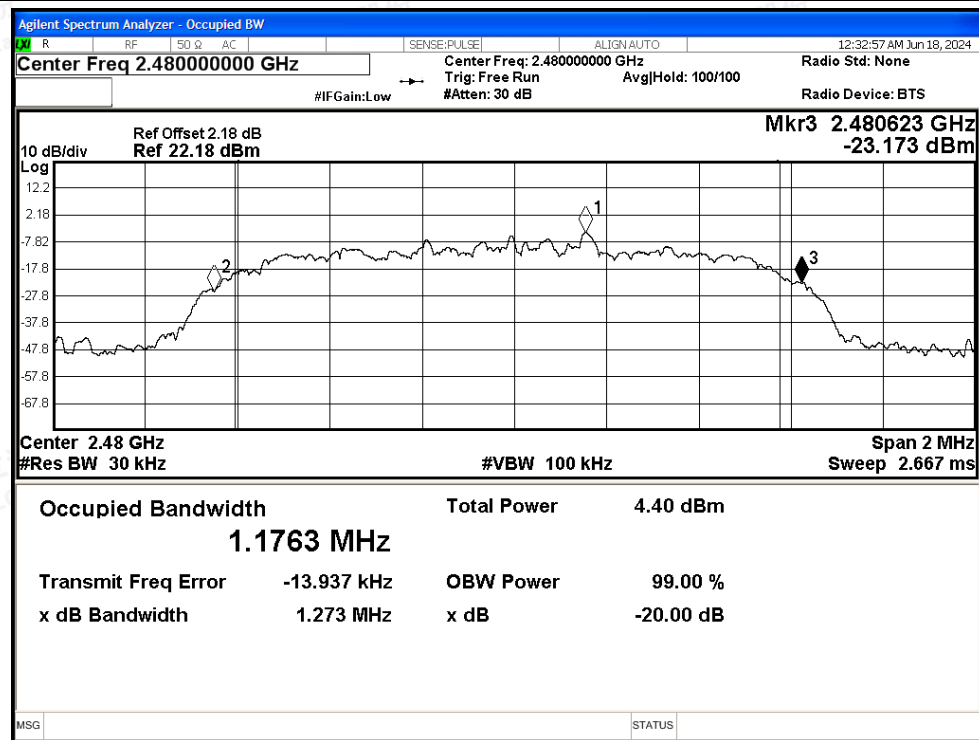




-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1



-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1





A.2 Maximum Conducted Output Power

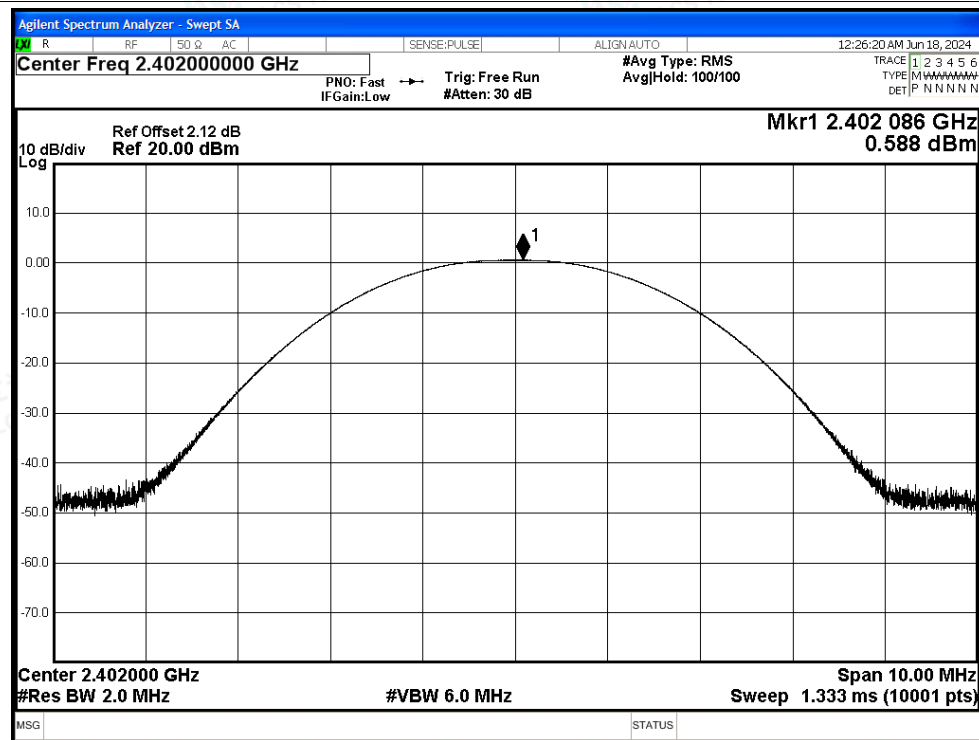
Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	0.59	21	Pass
NVNT	1-DH5	2441	Ant1	-0.36	21	Pass
NVNT	1-DH5	2480	Ant1	-0.09	21	Pass
NVNT	2-DH5	2402	Ant1	0.39	21	Pass
NVNT	2-DH5	2441	Ant1	-0.57	21	Pass
NVNT	2-DH5	2480	Ant1	-0.28	21	Pass



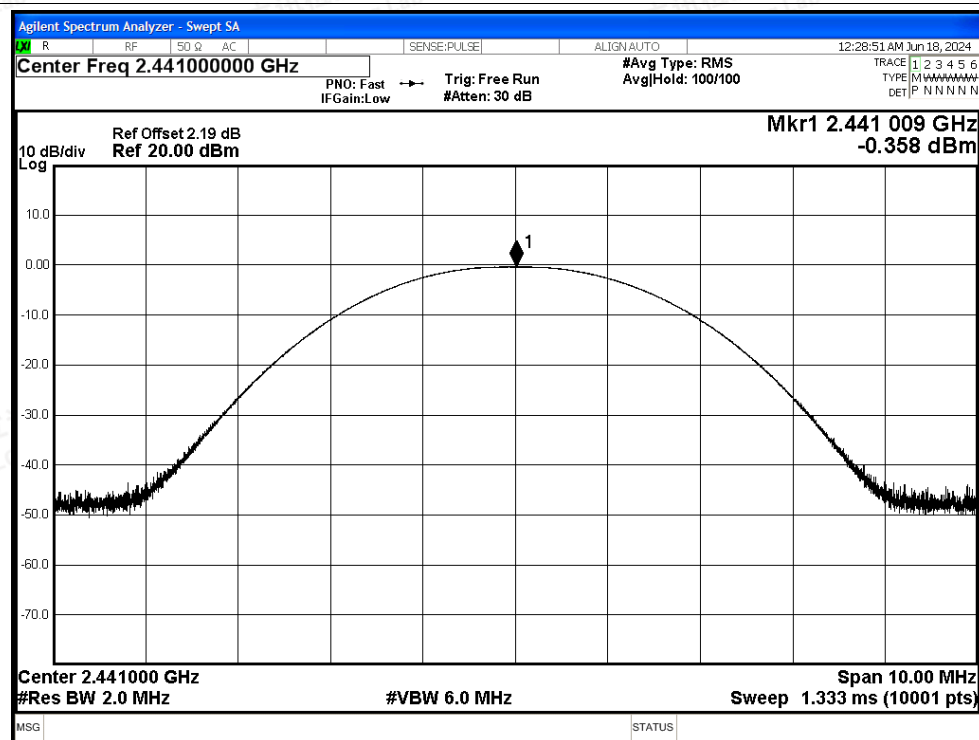


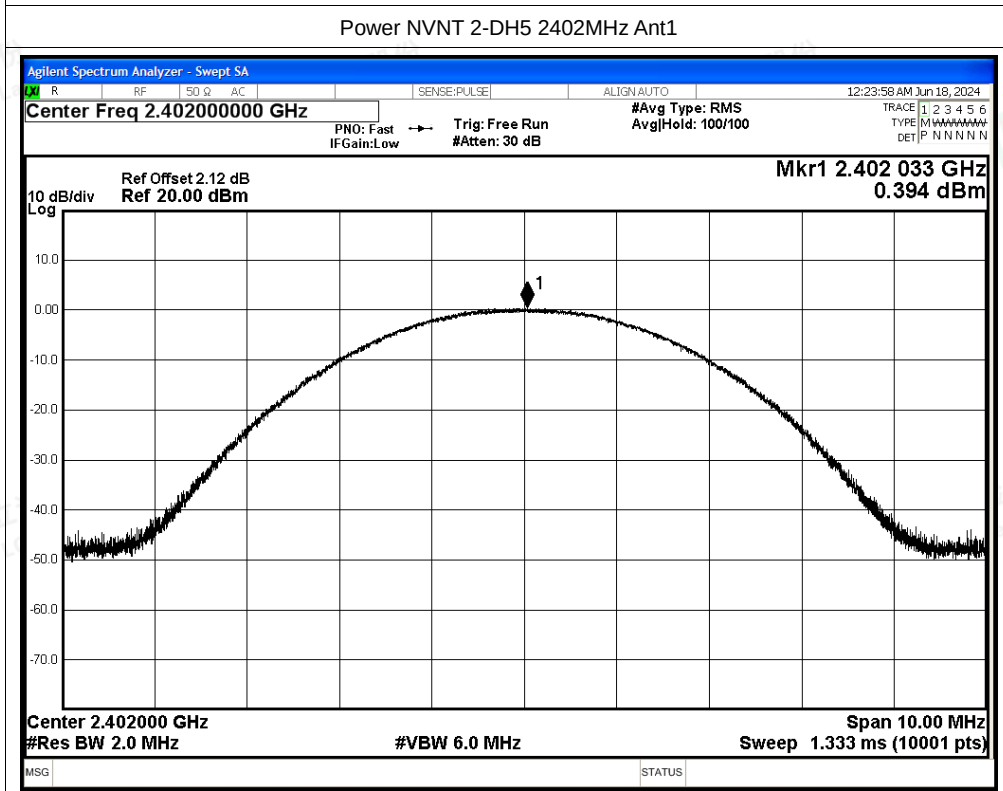
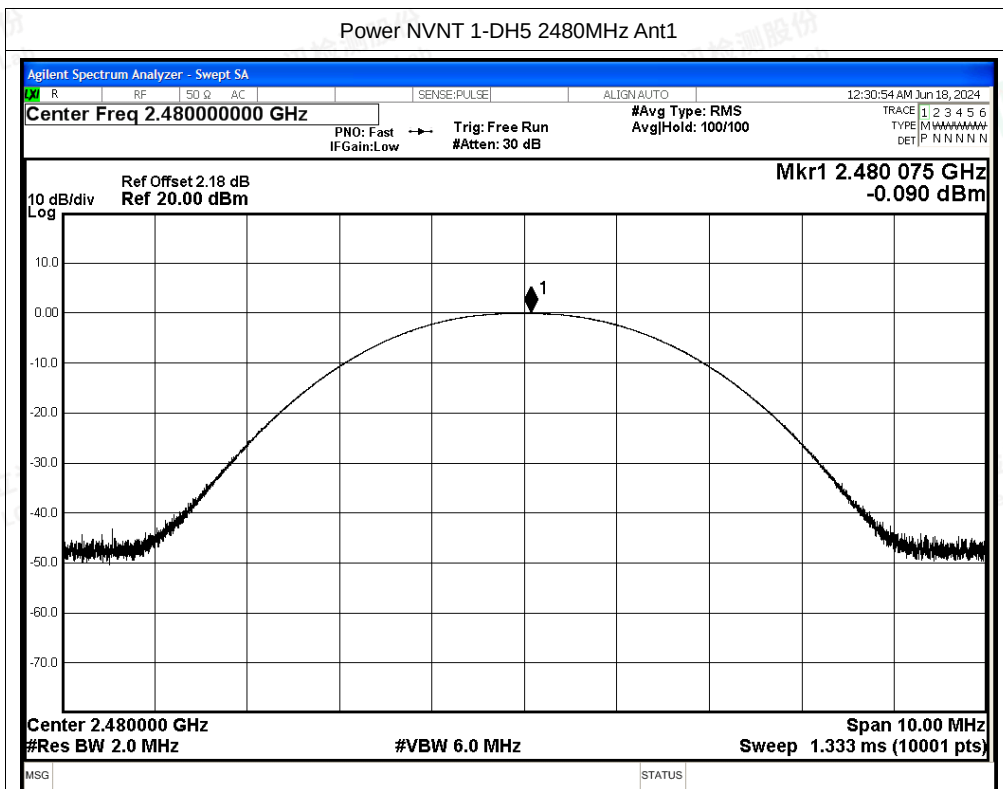
Test Graphs

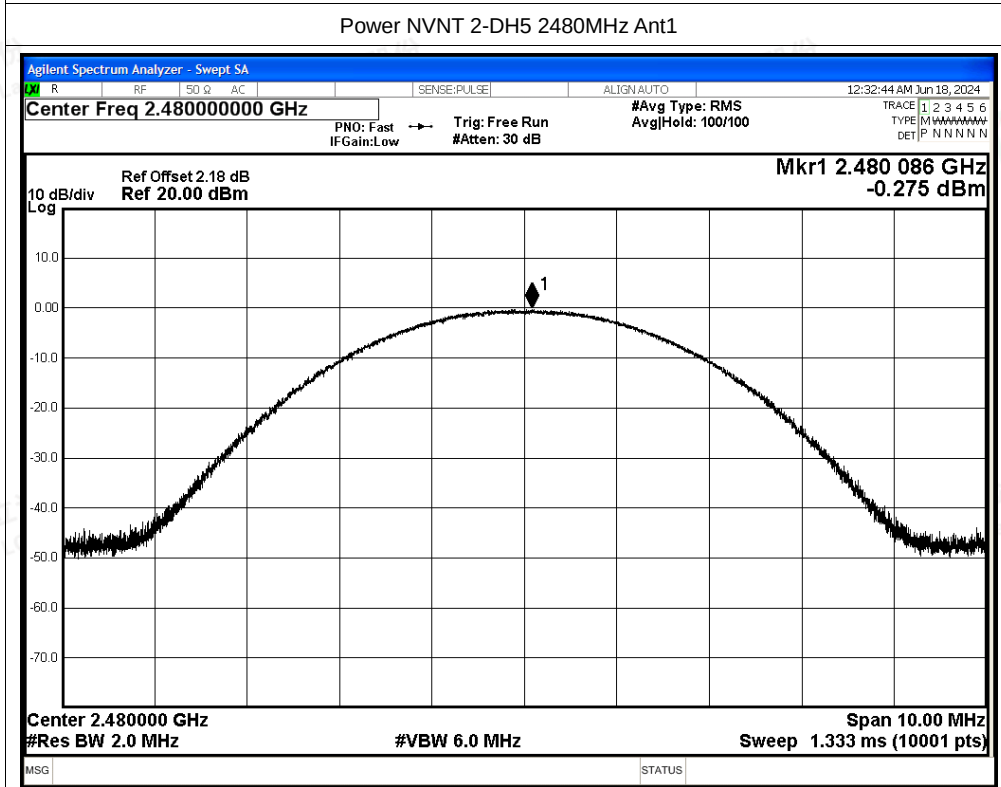
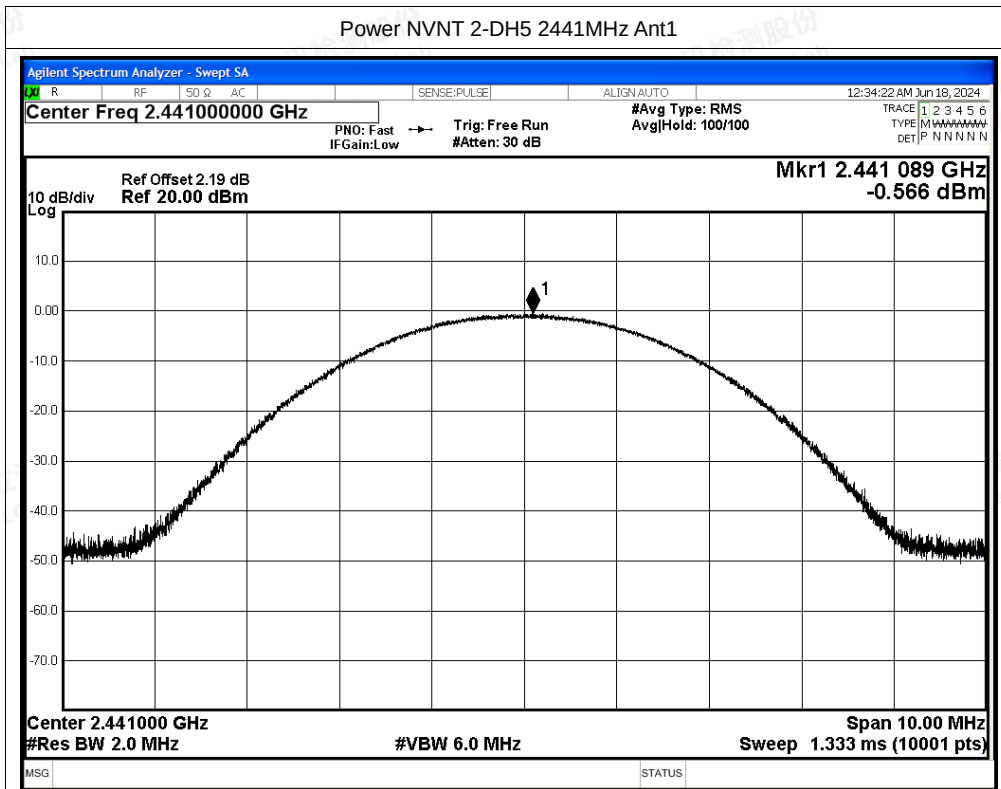
Power NVNT 1-DH5 2402MHz Ant1



Power NVNT 1-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	2402.962	1.004	0.688	Pass
NVNT	2-DH5	Ant1	2402.008	2403.004	0.996	0.869	Pass

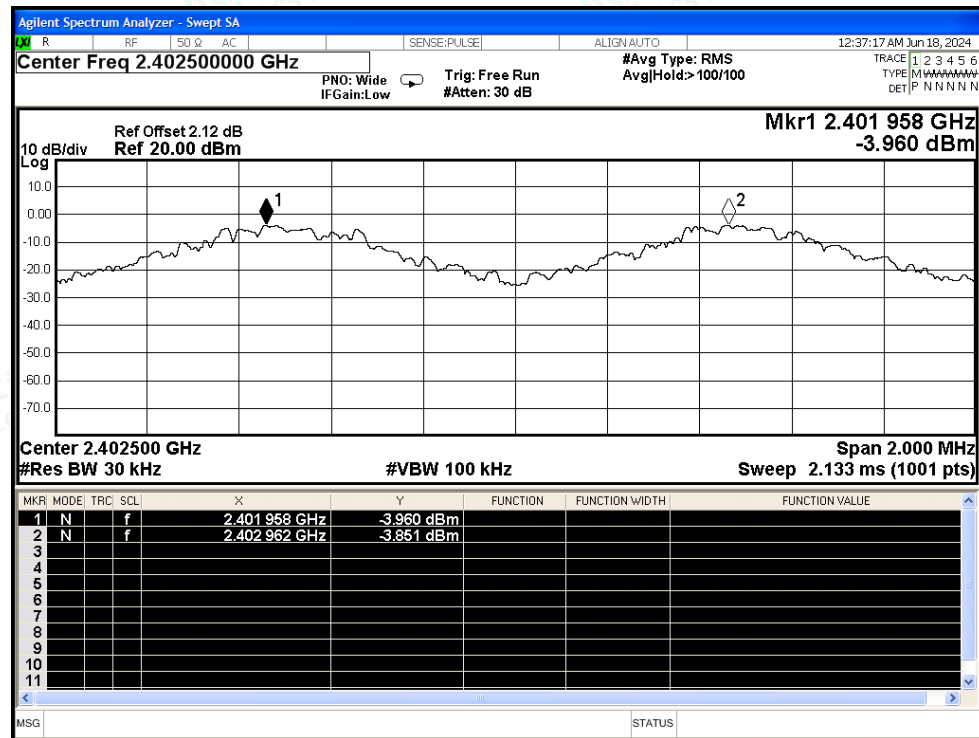


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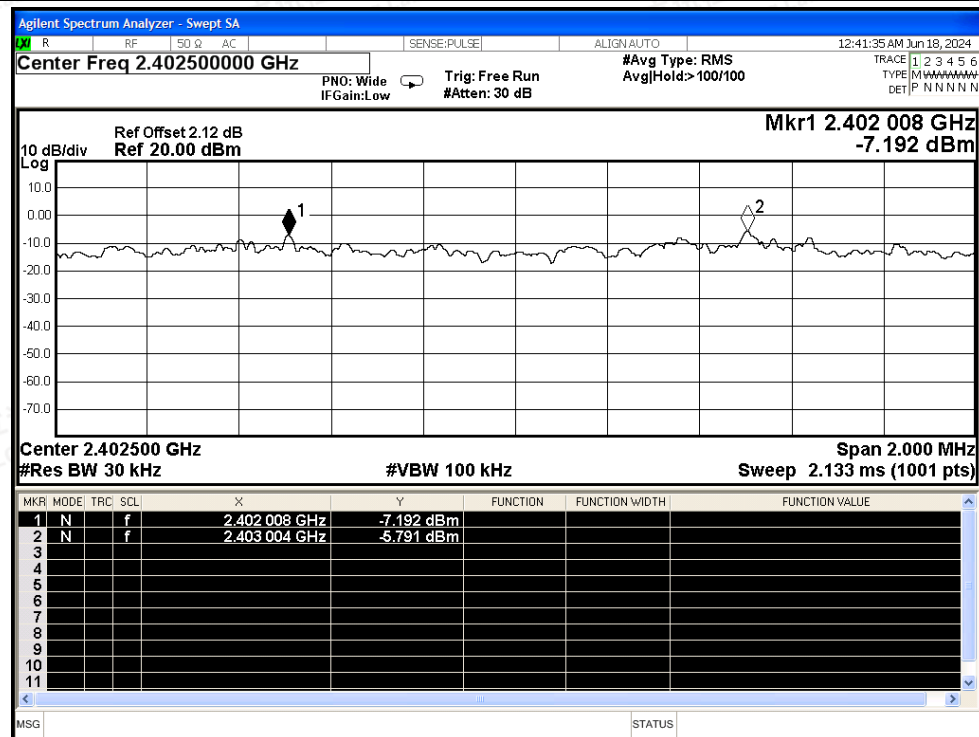


Test Graphs

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	305.492	106	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.885	297.155	103	31600	400	Pass

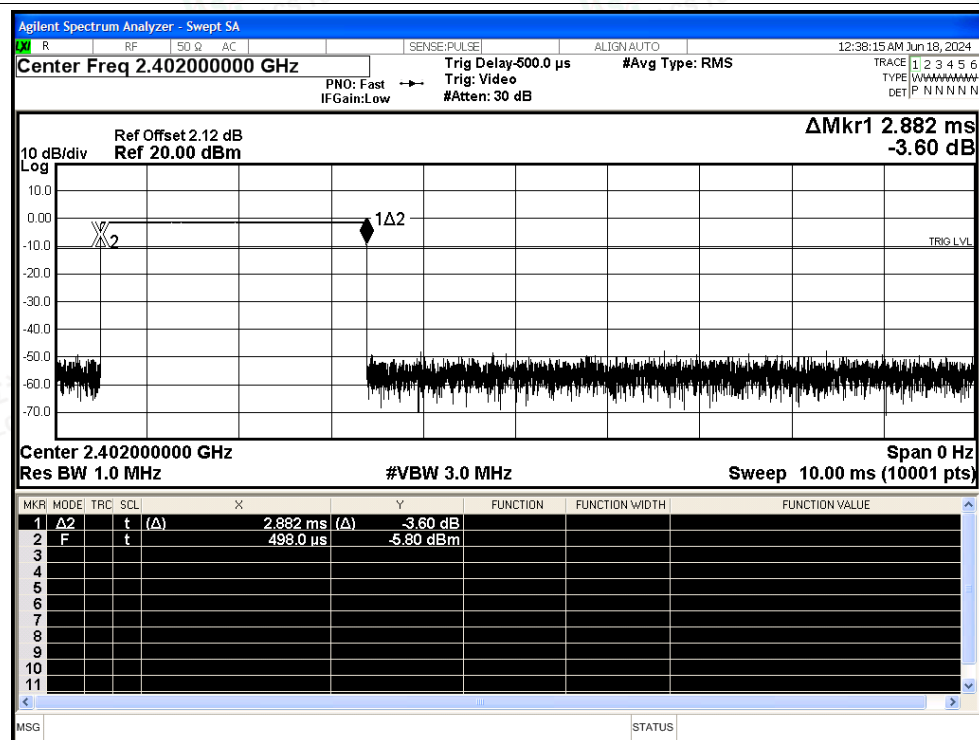


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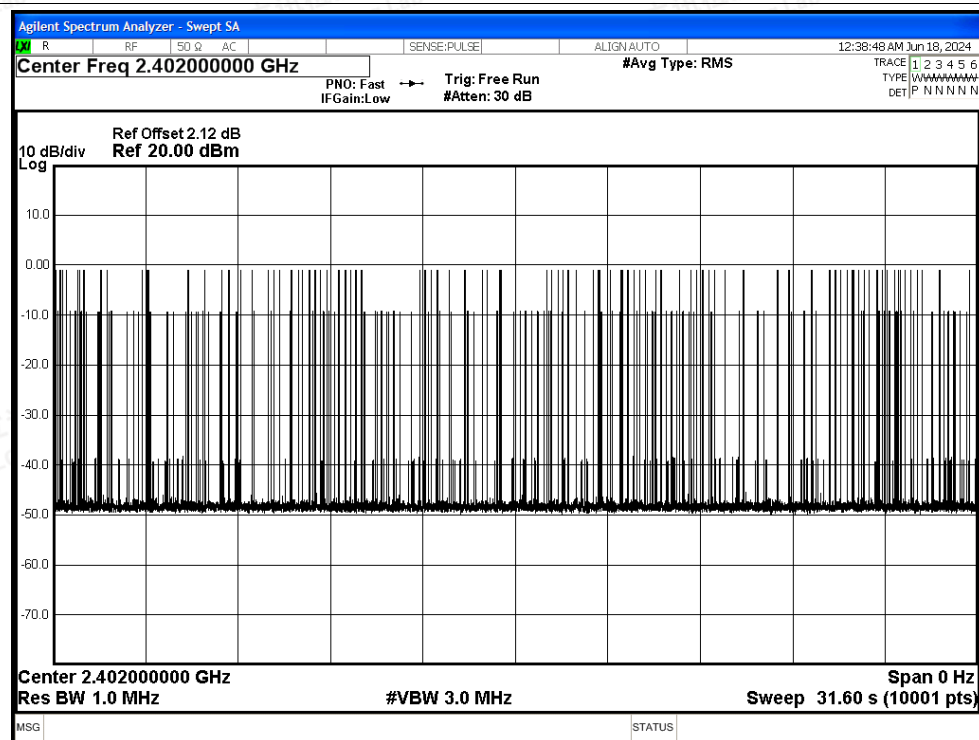


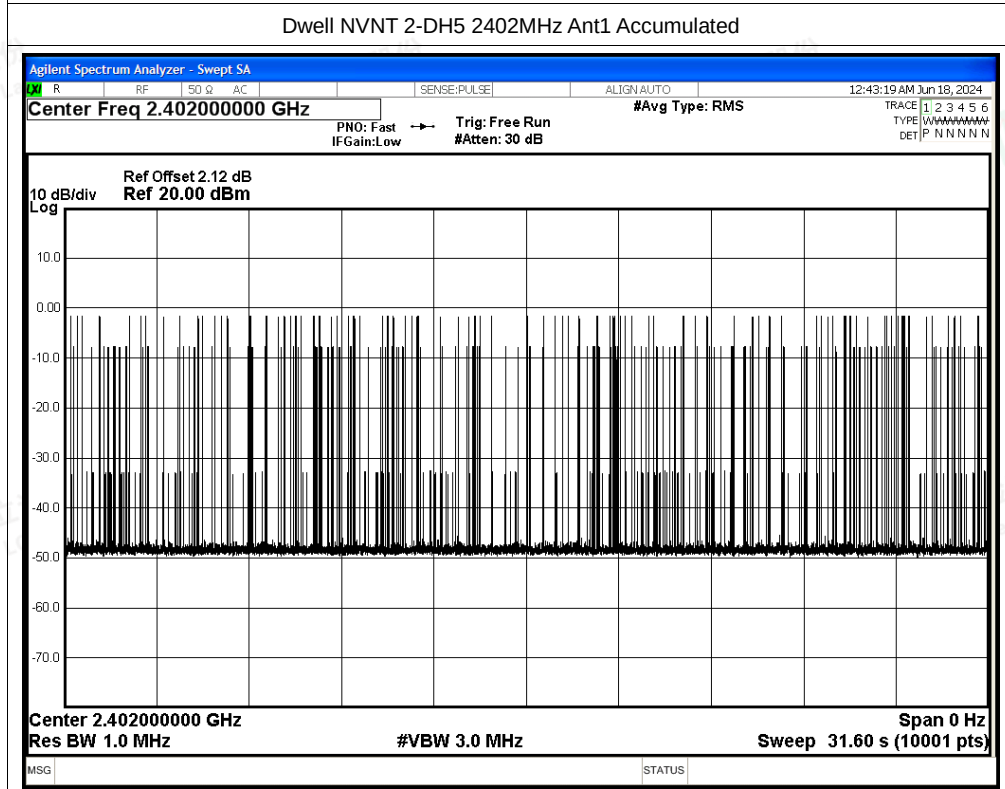
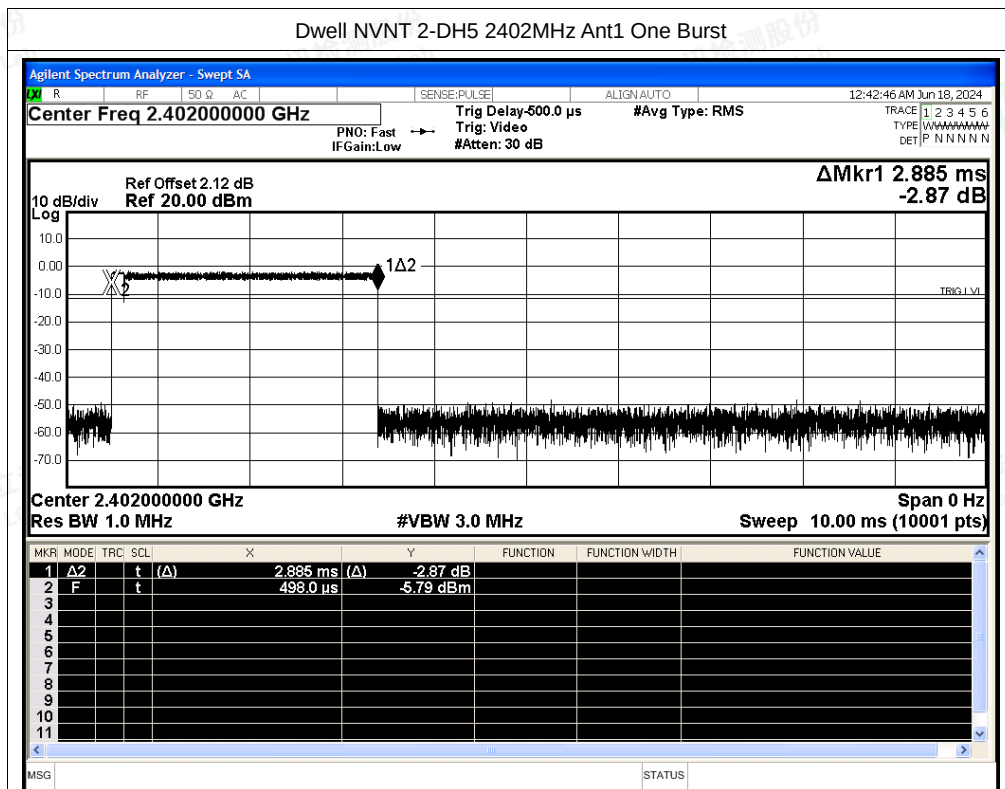
Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant1 One Burst



Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated







A.5 Number of Hopping Channel

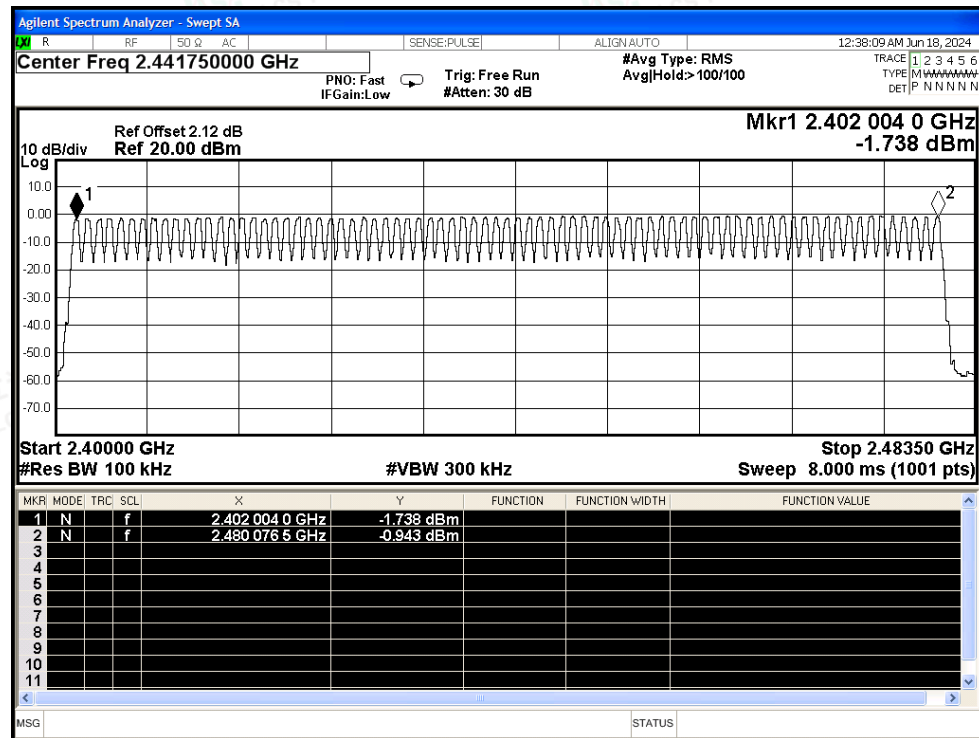
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH5	Ant1	79	15	Pass
NVNT	2-DH5	Ant1	79	15	Pass



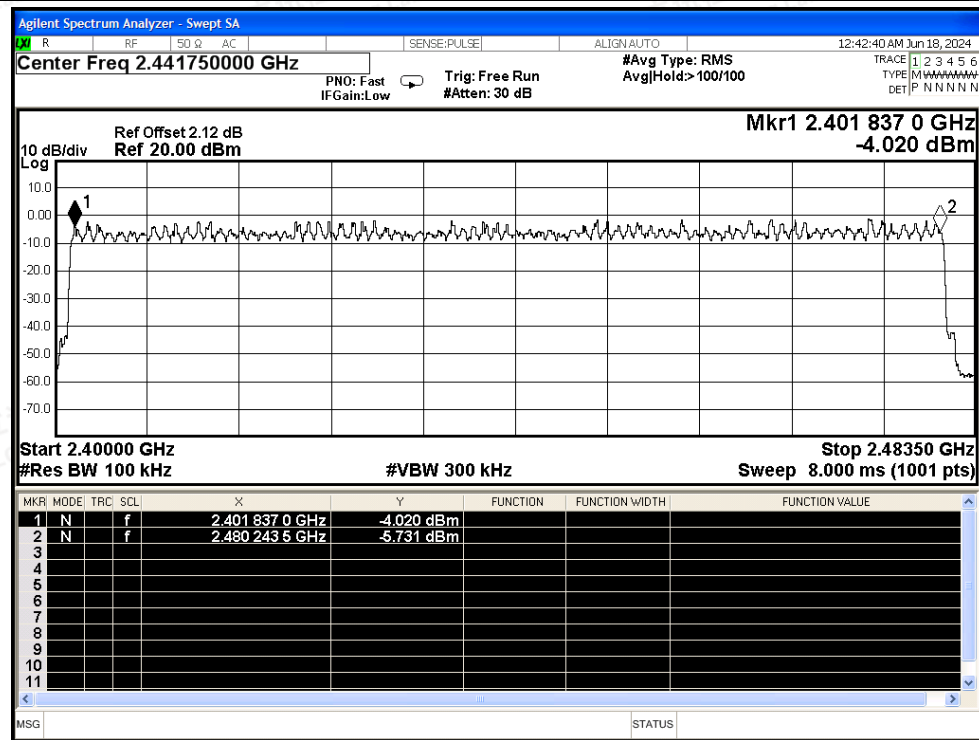


Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant1



Hopping No. NVNT 2-DH5 2402MHz Ant1





A.6 Band Edge

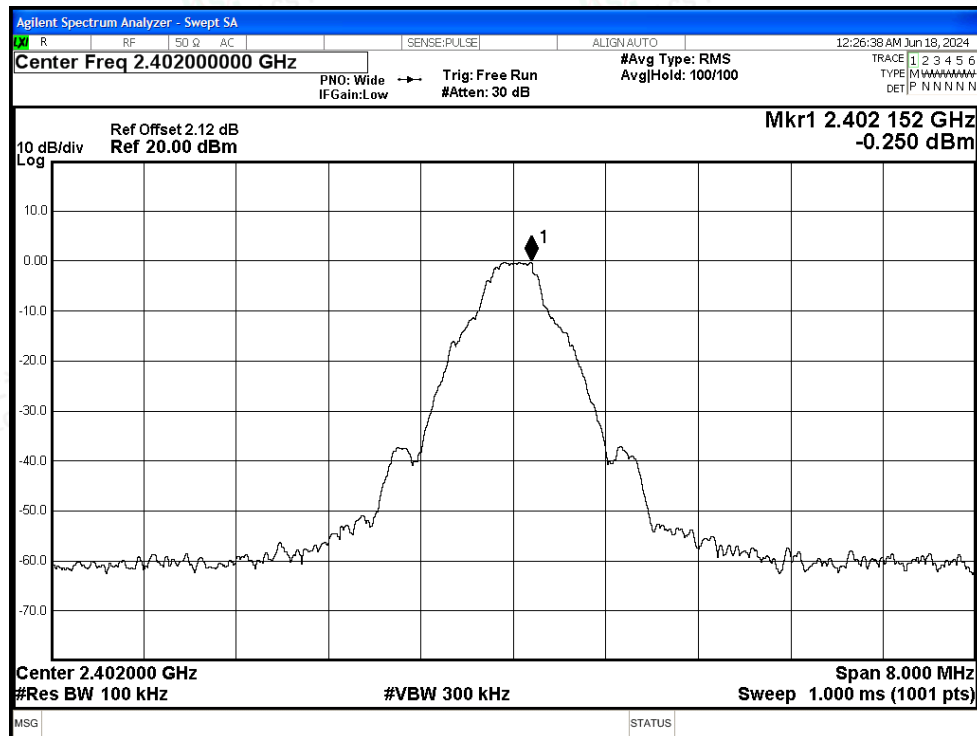
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-56.66	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-56.62	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-55.15	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-53.51	-20	Pass



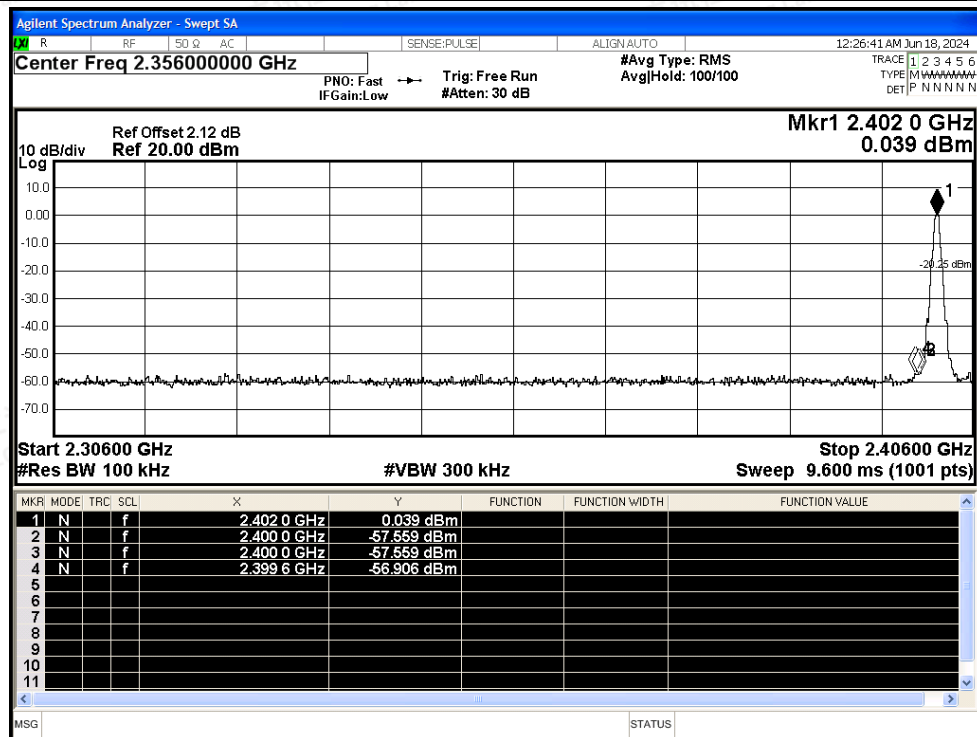


Test Graphs

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

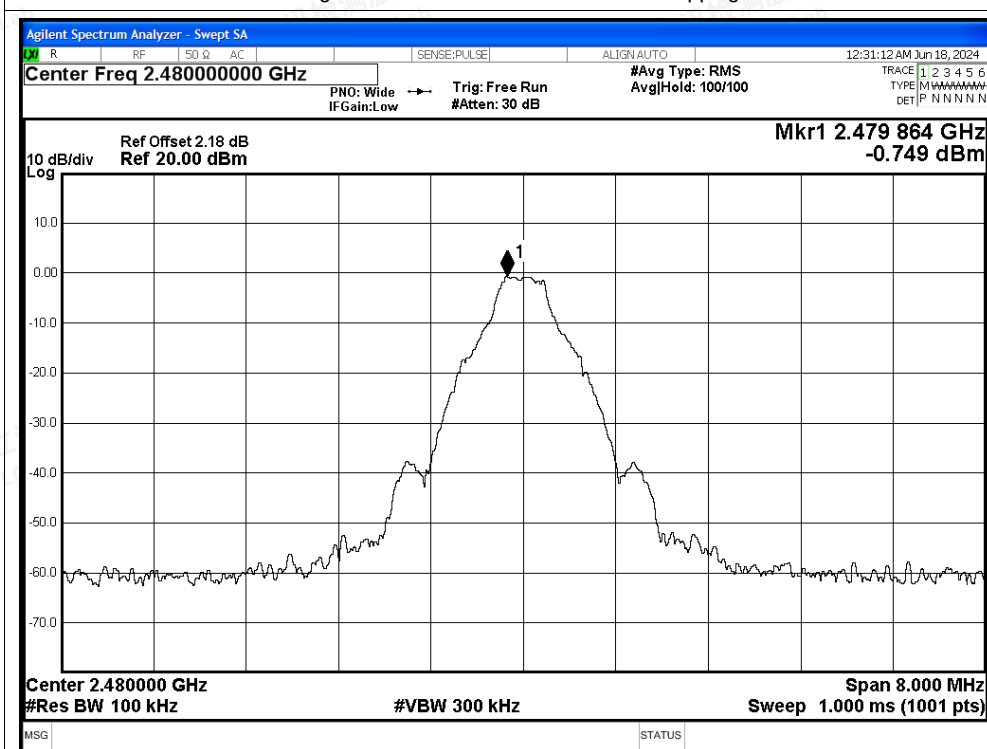


Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission

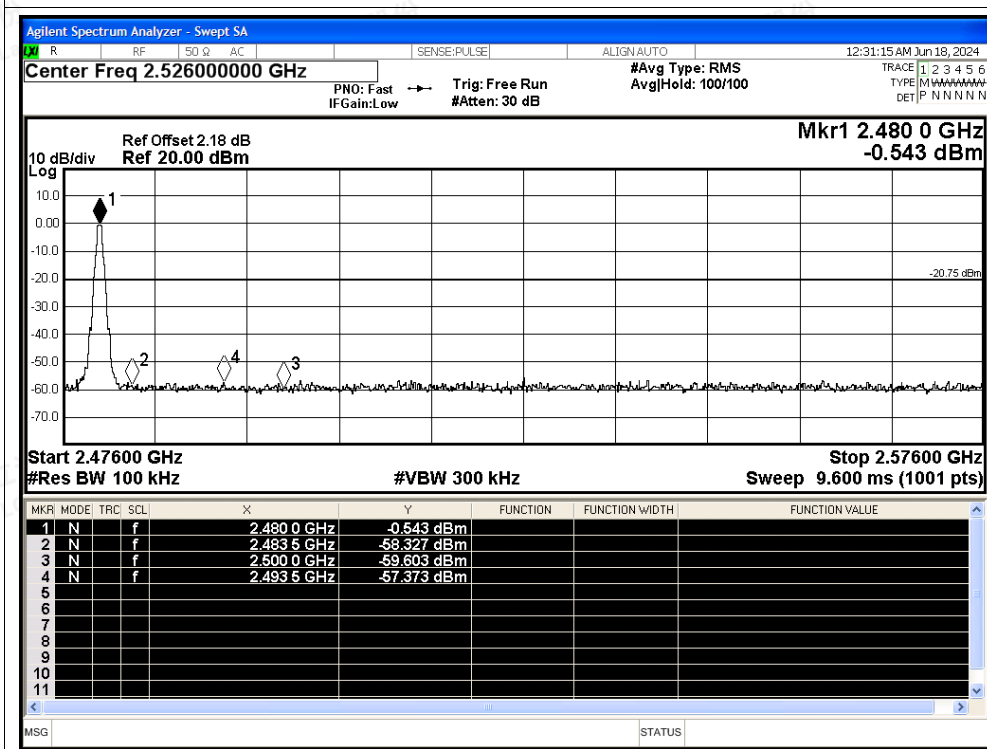


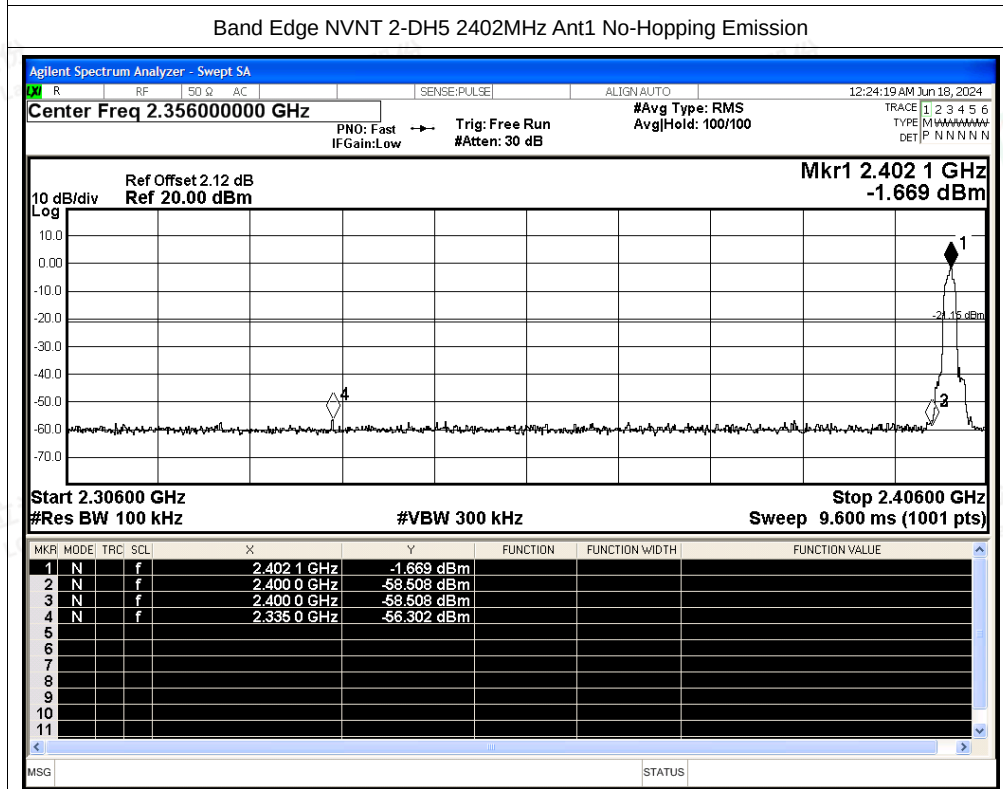
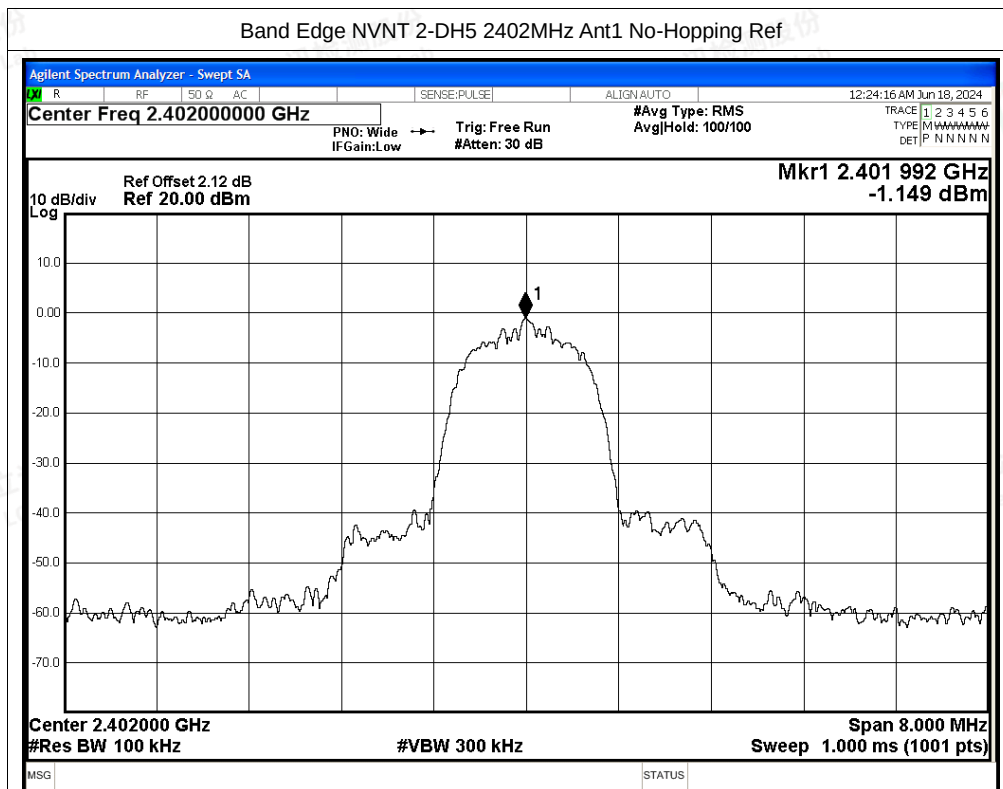


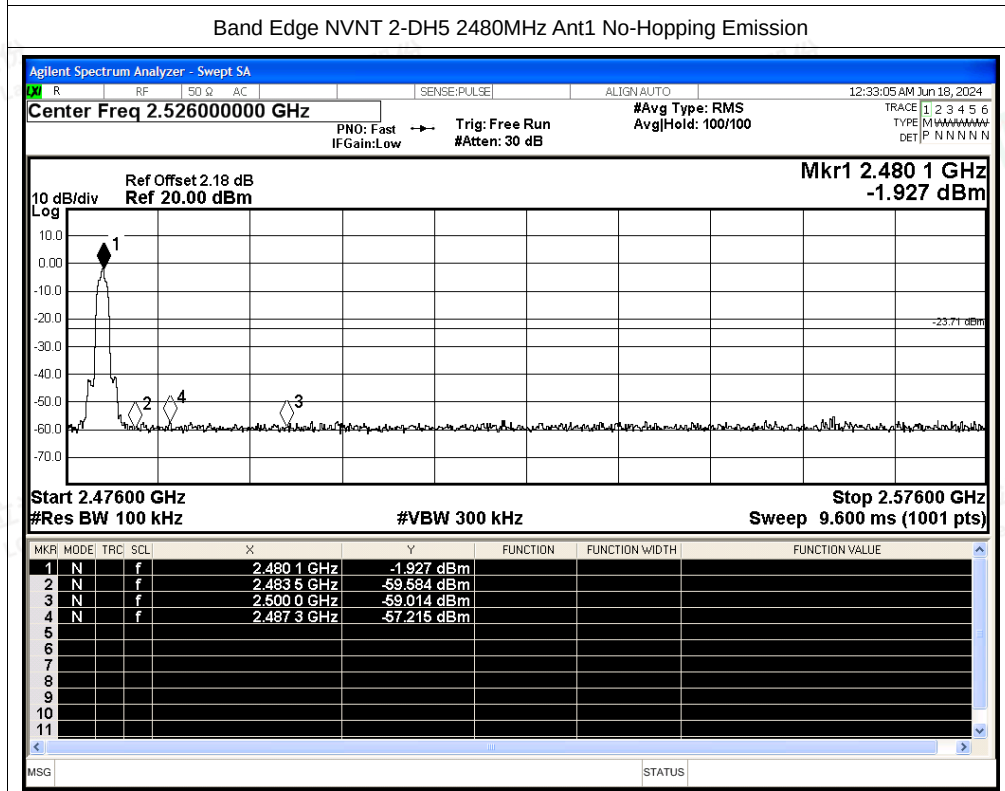
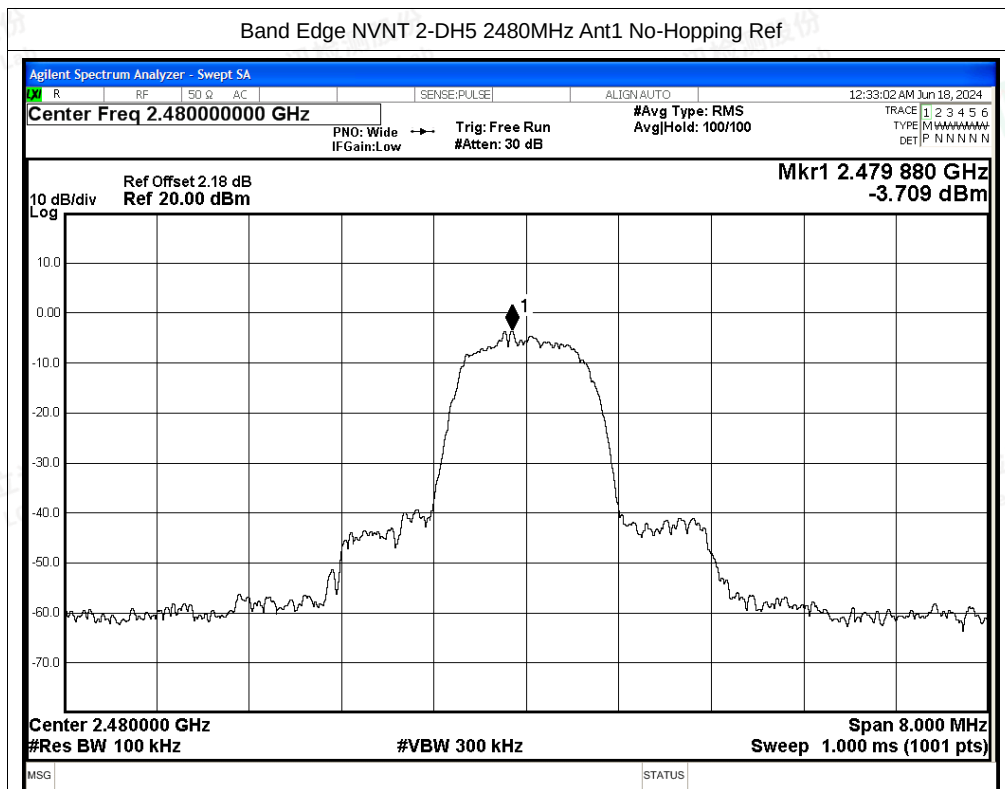
Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref



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









(Hopping)

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-54.17	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-55.09	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-53.82	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-54.15	-20	Pass

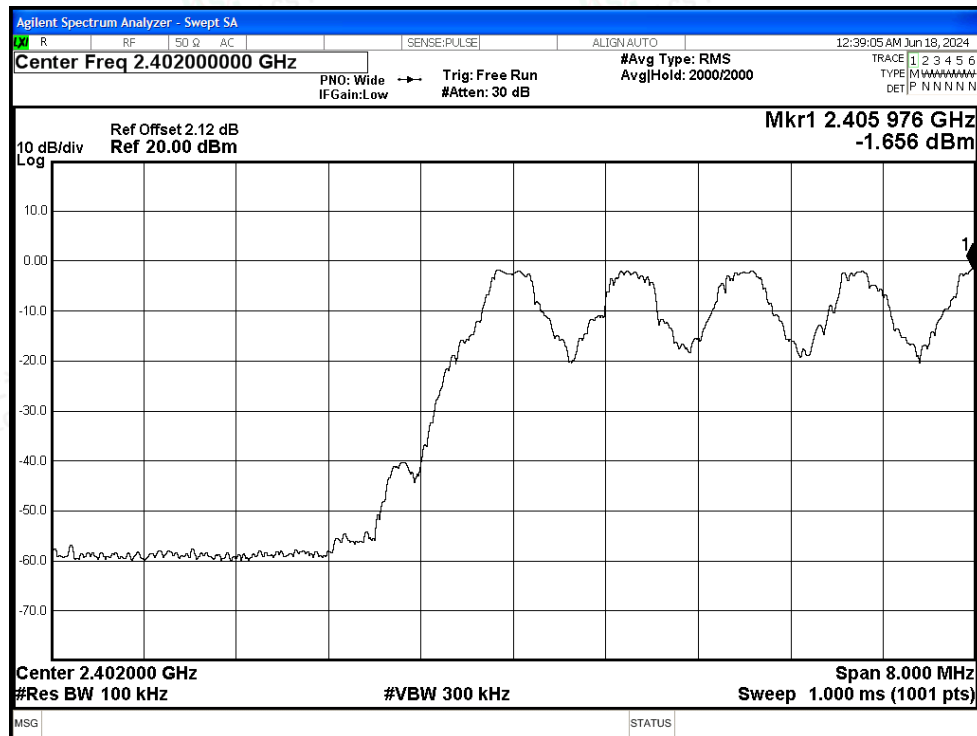


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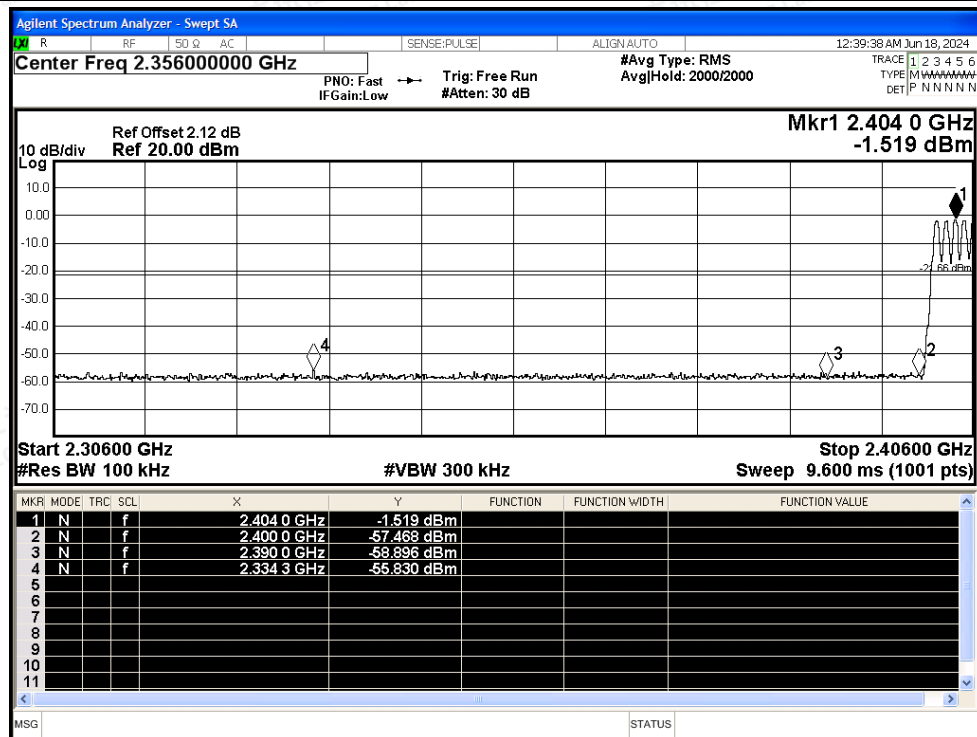


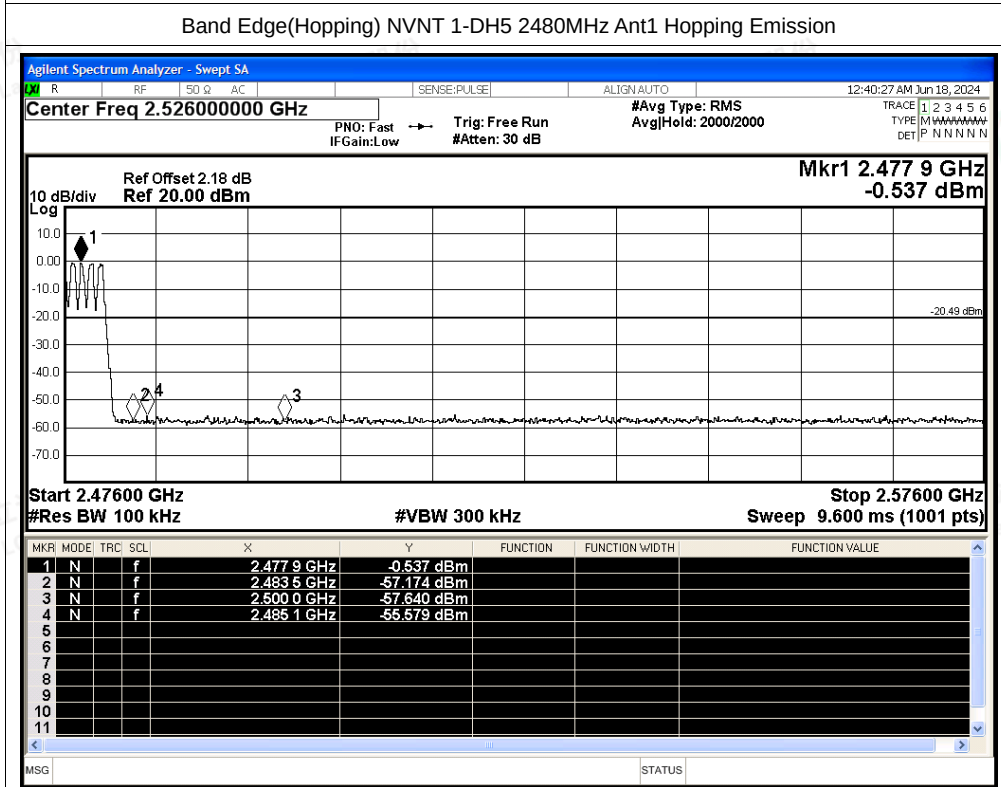
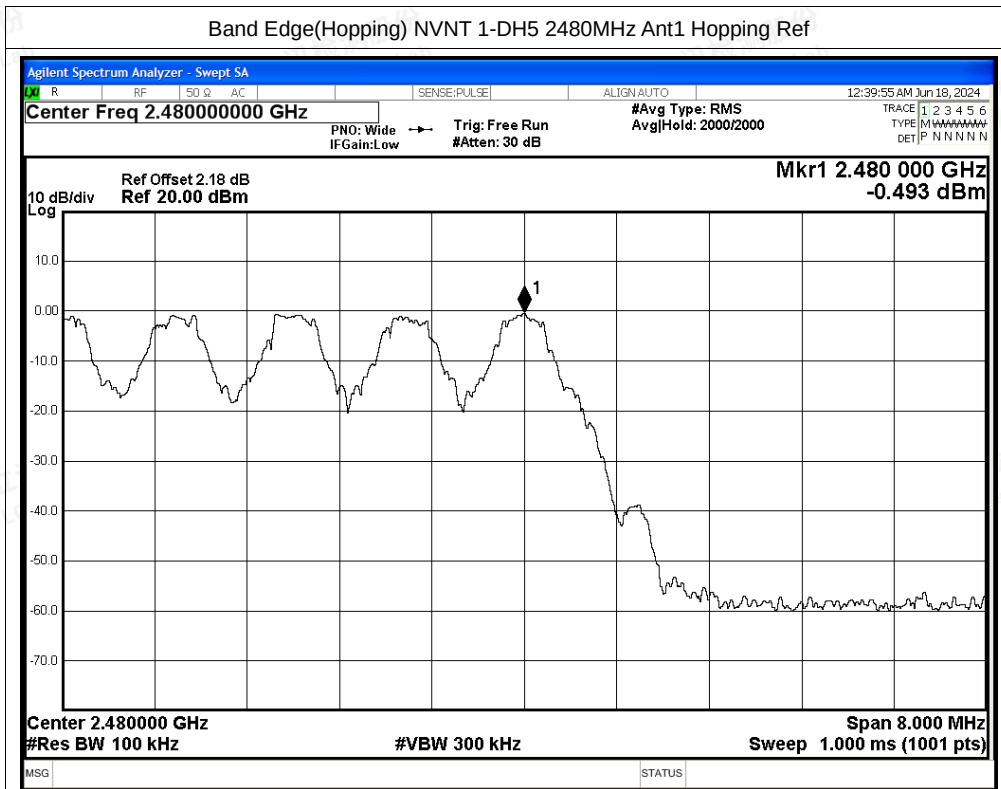
Test Graphs

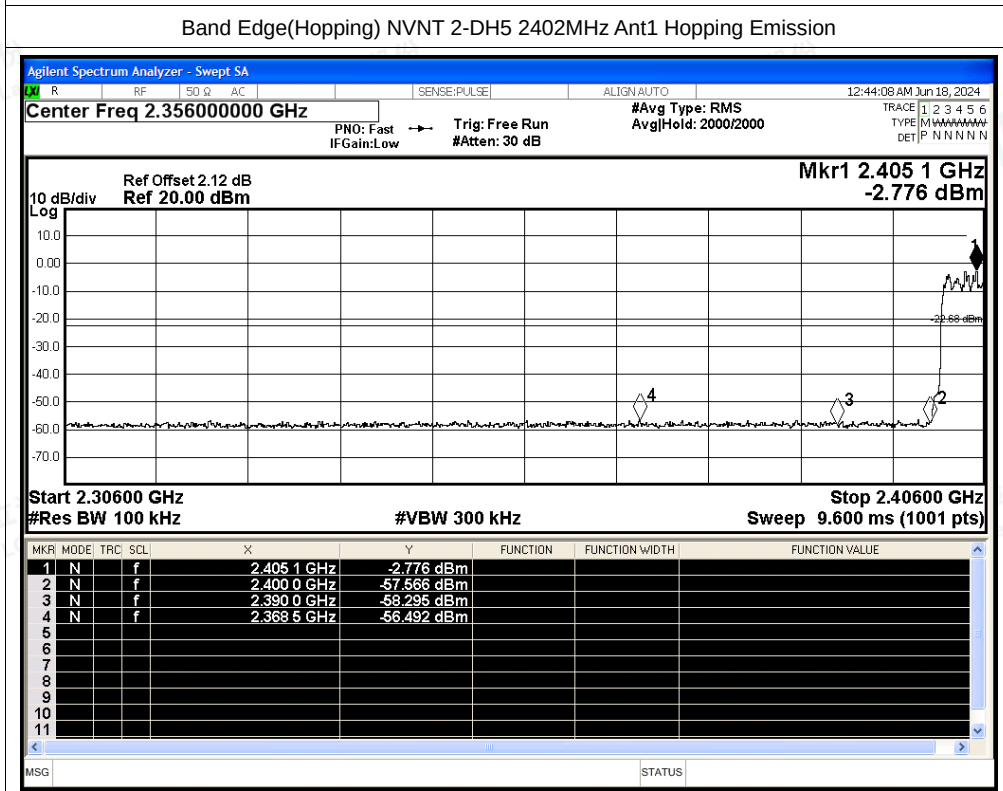
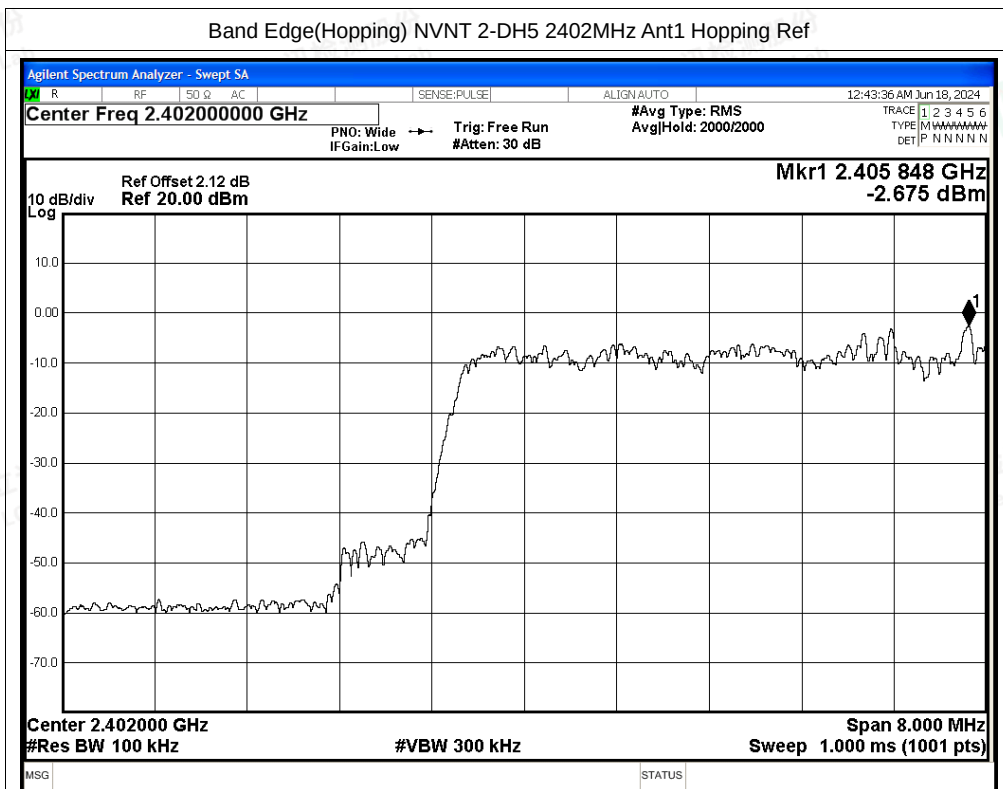
Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Ref



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

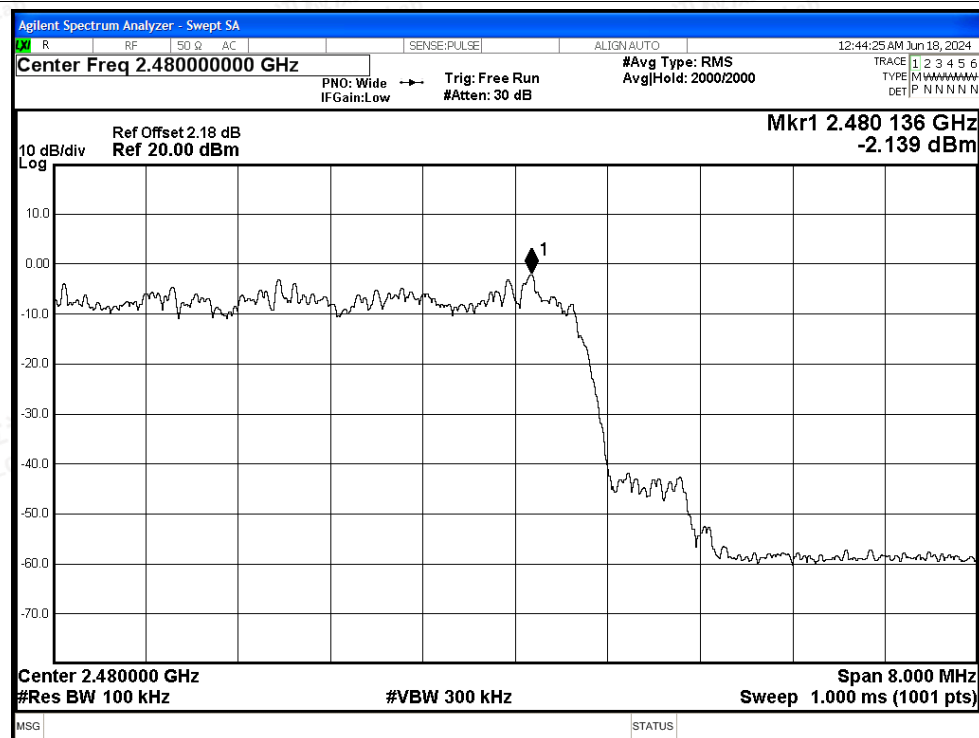




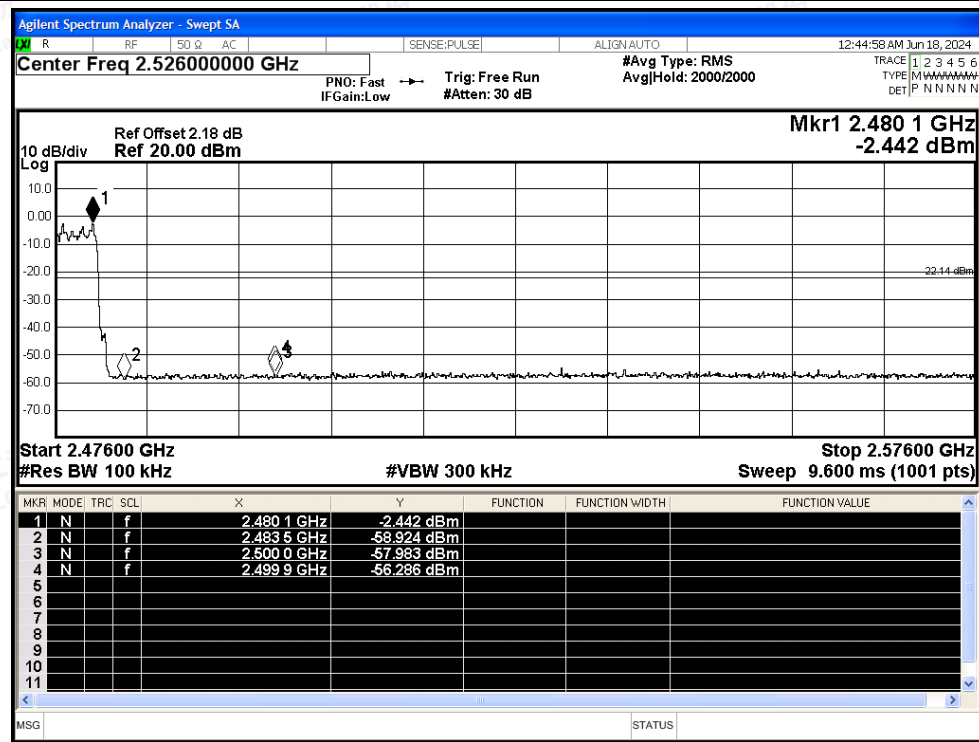




Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Ref



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	-55.13	-20	Pass
NVNT	1-DH5	2441	Ant1	-54.74	-20	Pass
NVNT	1-DH5	2480	Ant1	-54.99	-20	Pass
NVNT	2-DH5	2402	Ant1	-54.48	-20	Pass
NVNT	2-DH5	2441	Ant1	-53.96	-20	Pass
NVNT	2-DH5	2480	Ant1	-54.52	-20	Pass

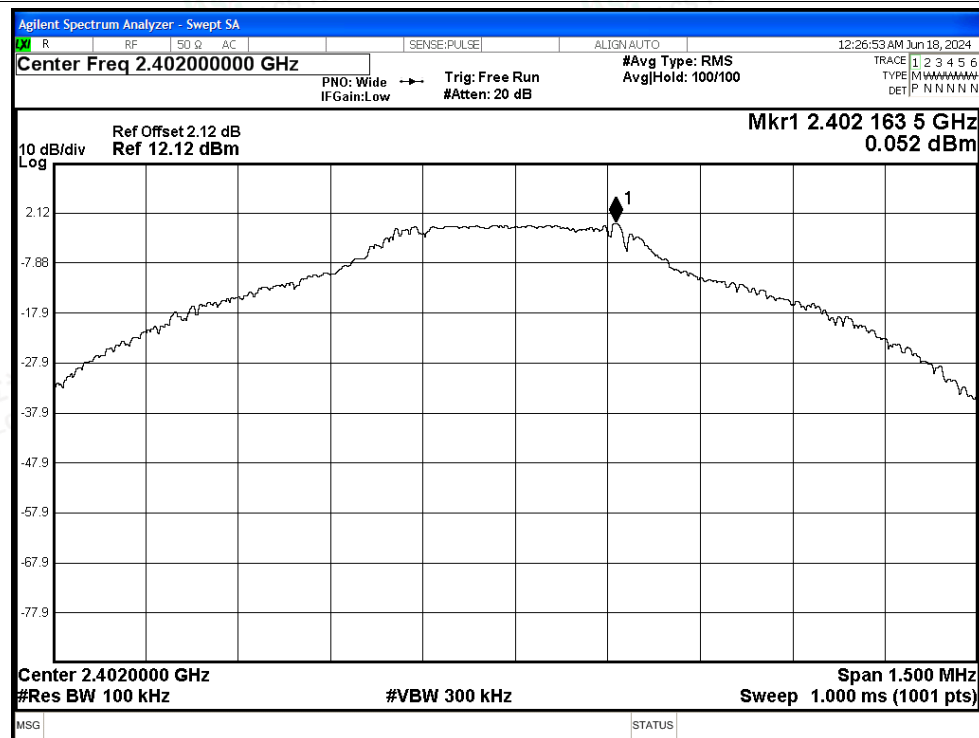


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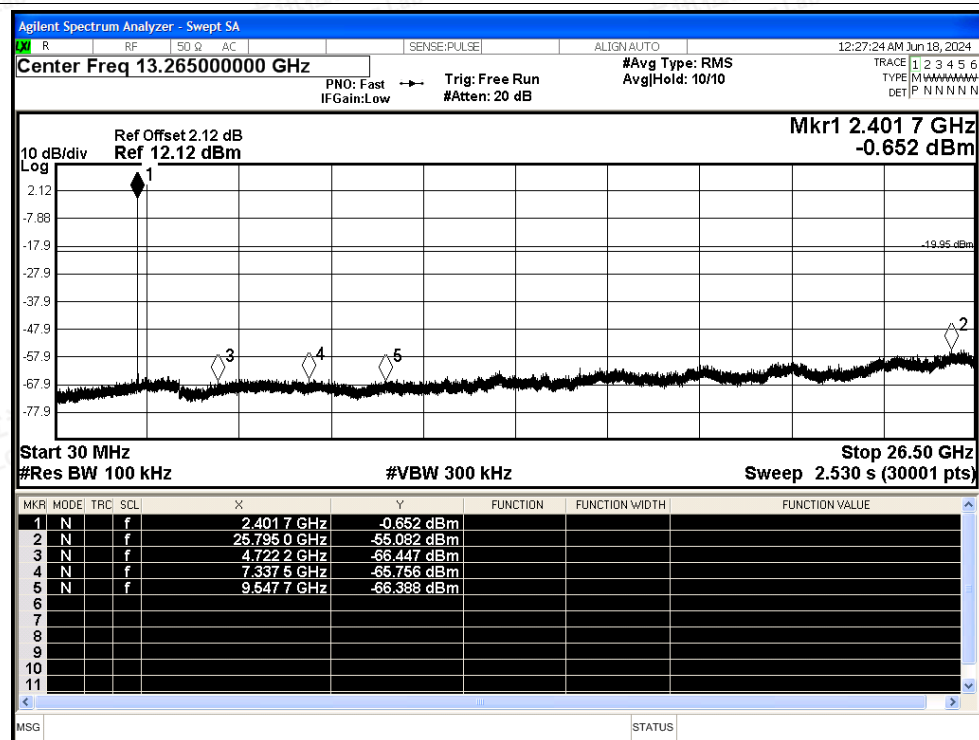


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref

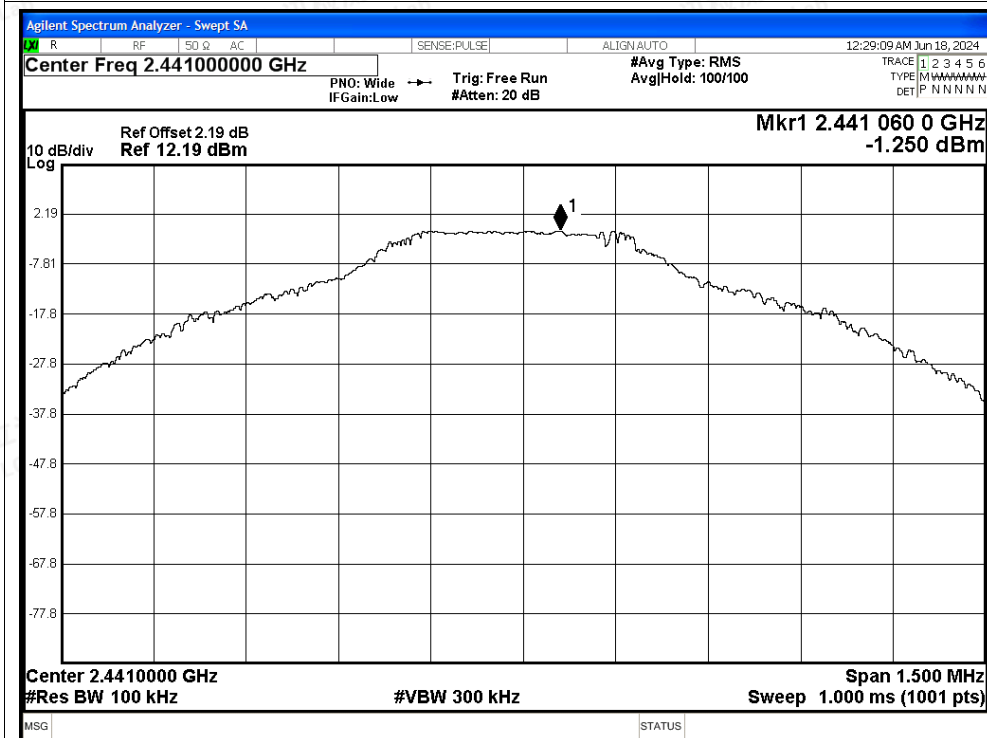


Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission

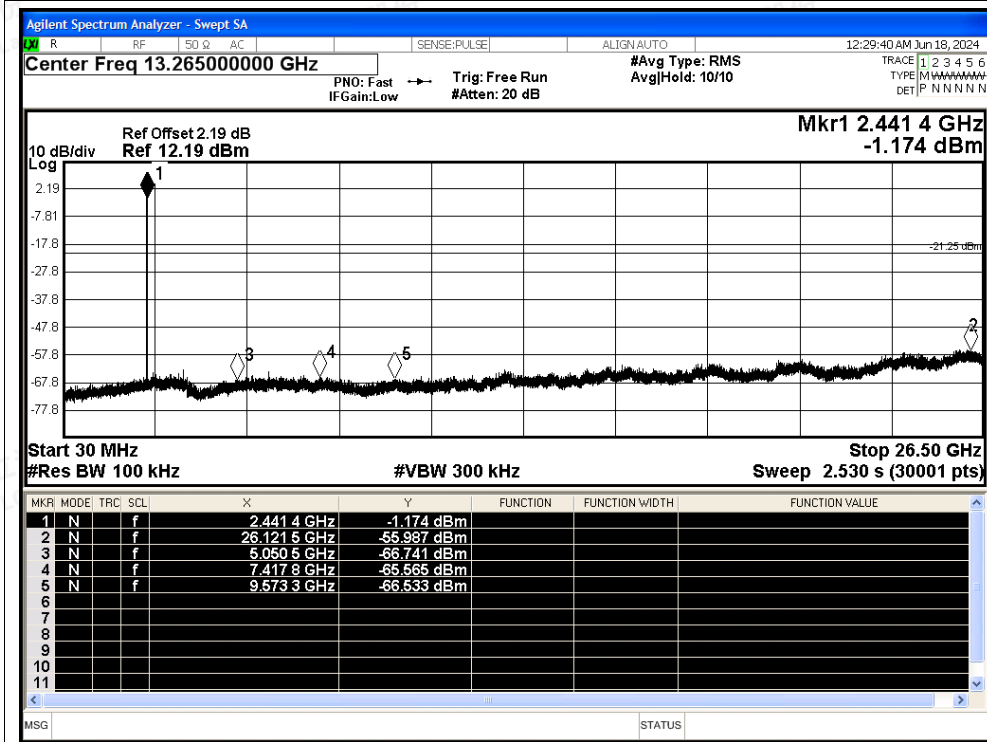




Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref

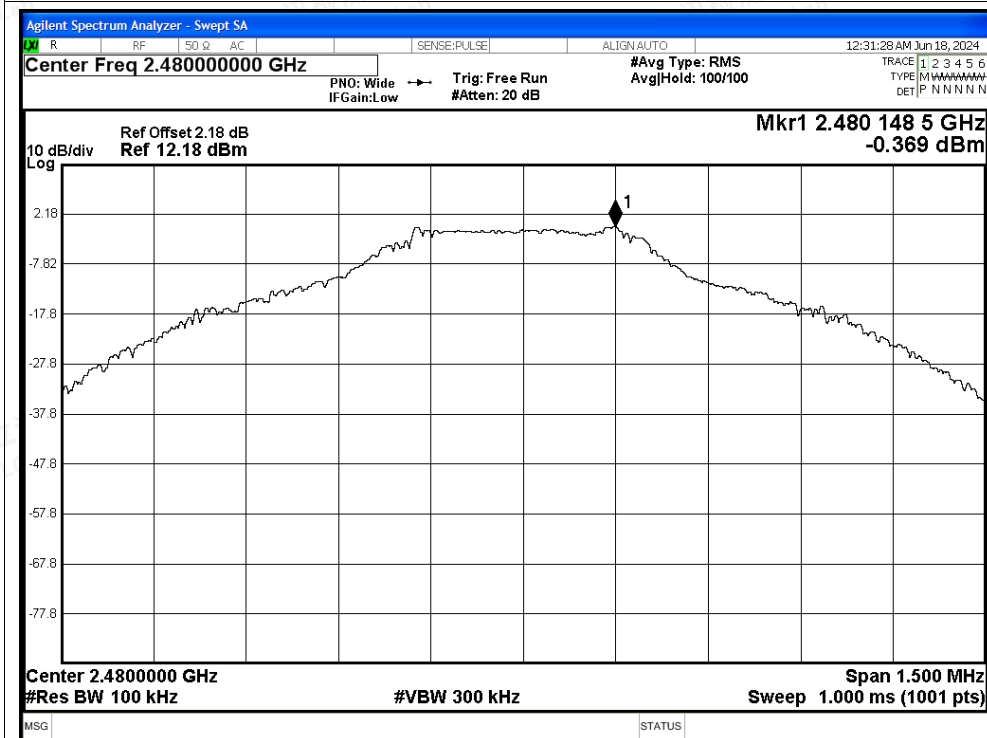


Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission

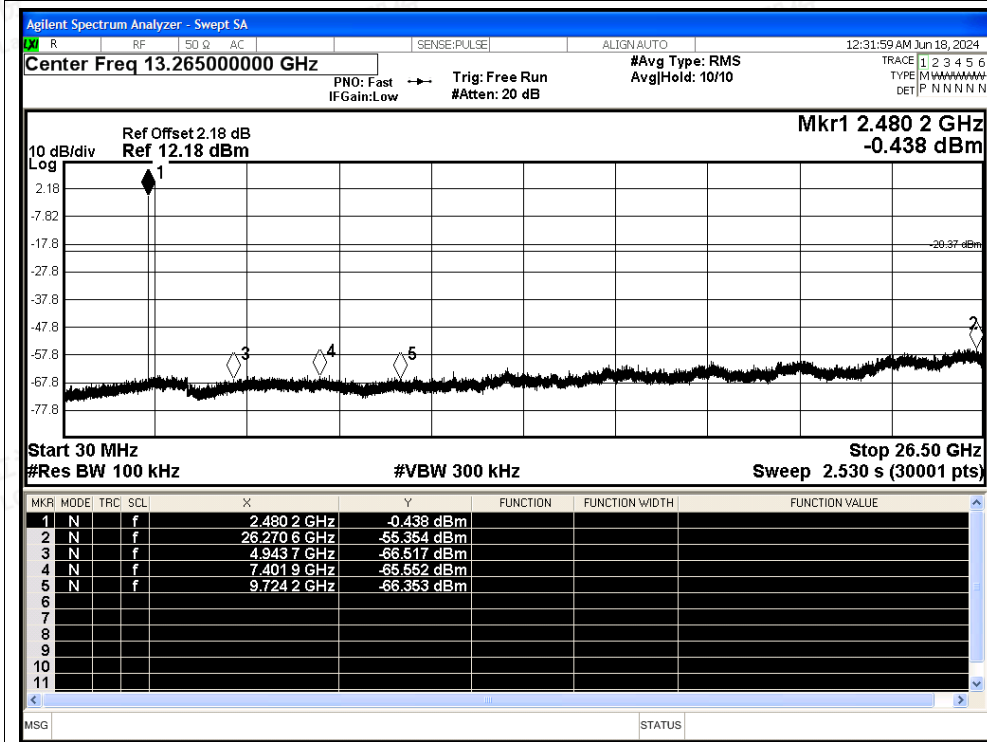




Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref

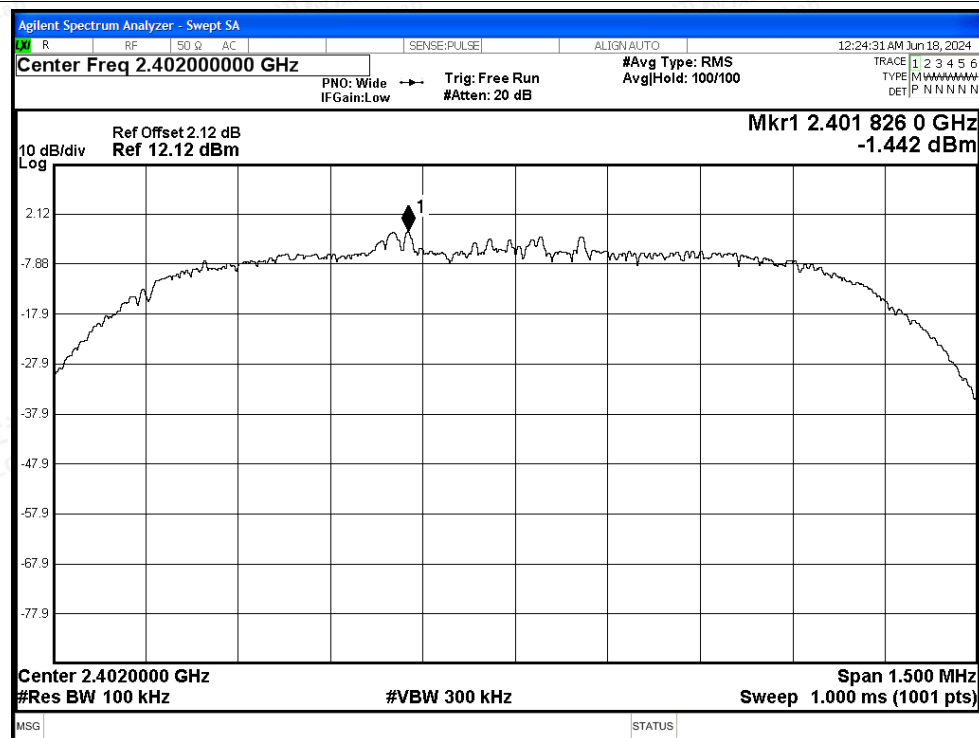


Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission

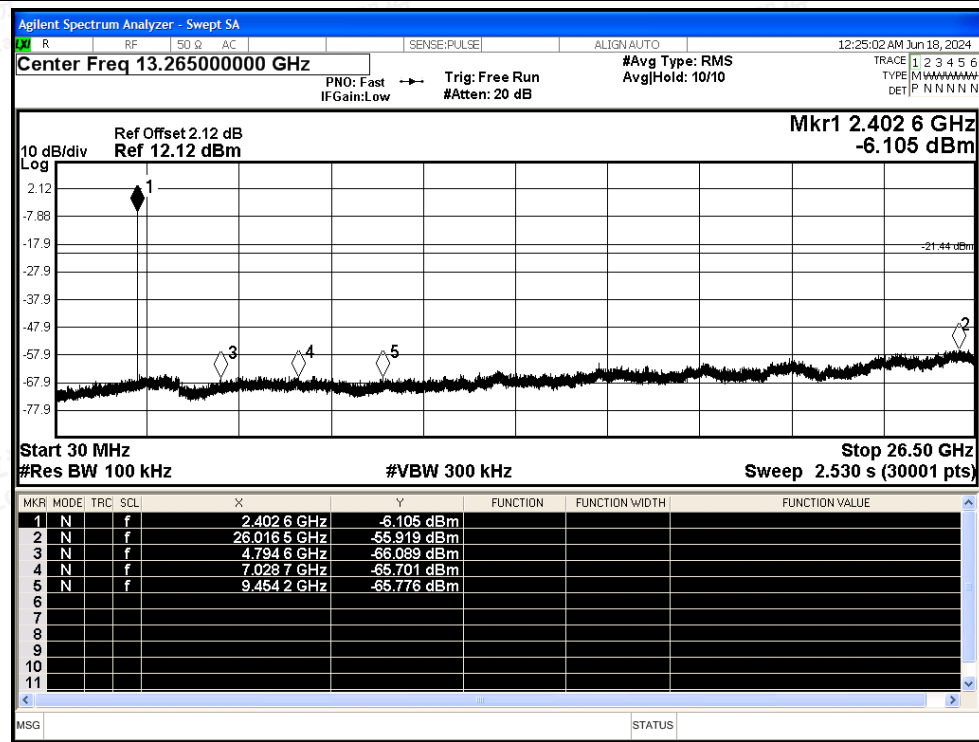




Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref

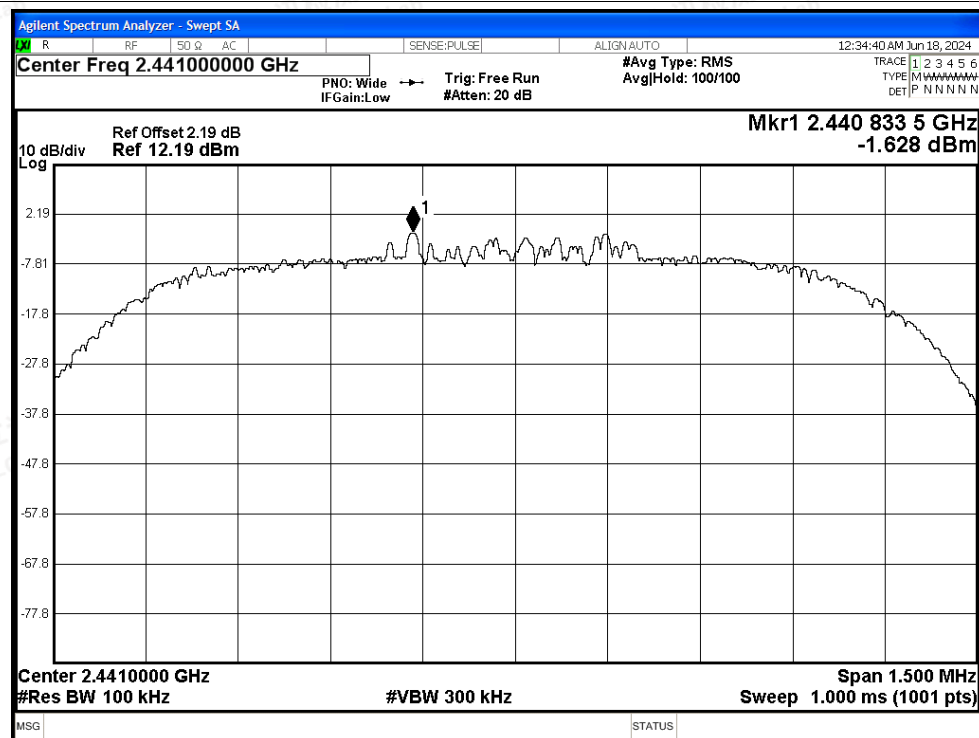


Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission

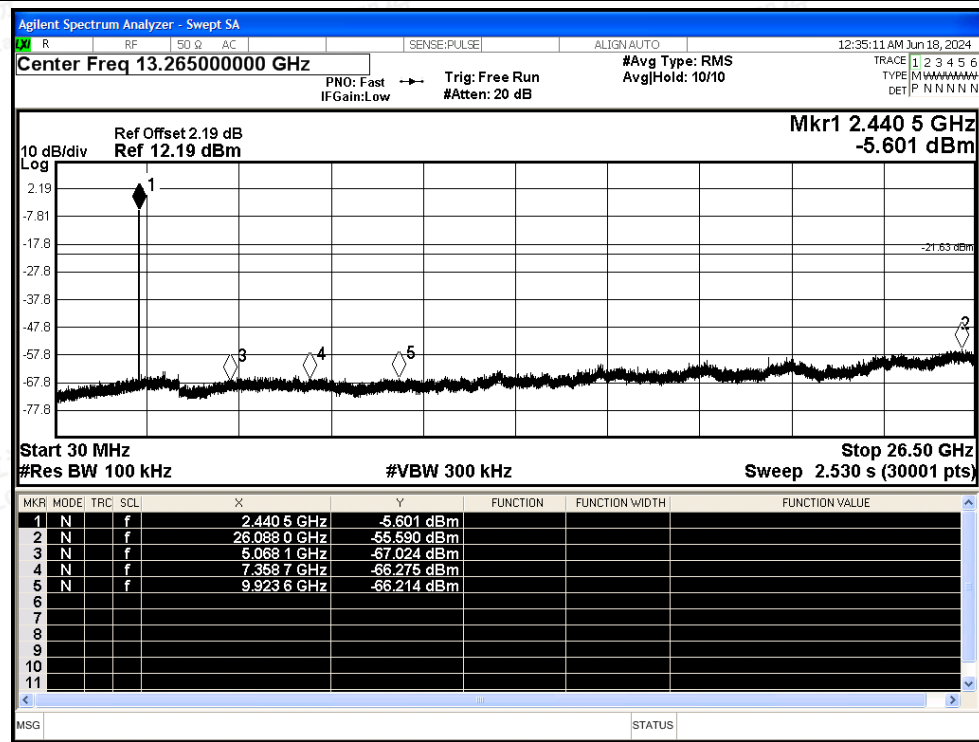




Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref

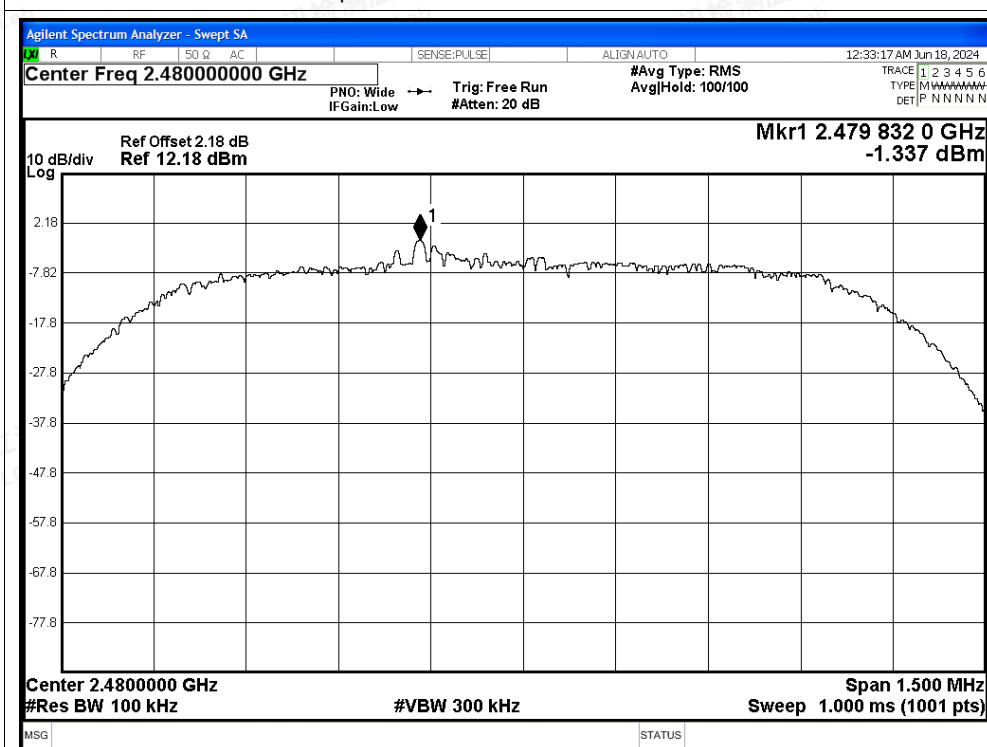


Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission

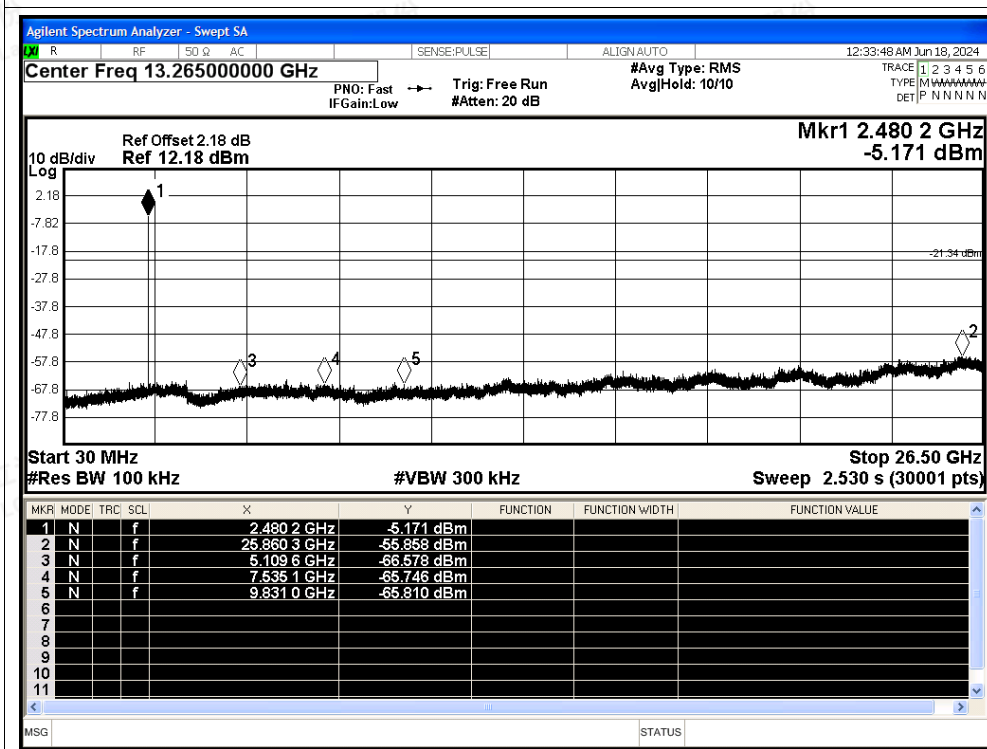




Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Emission





A.8 Duty Cycle

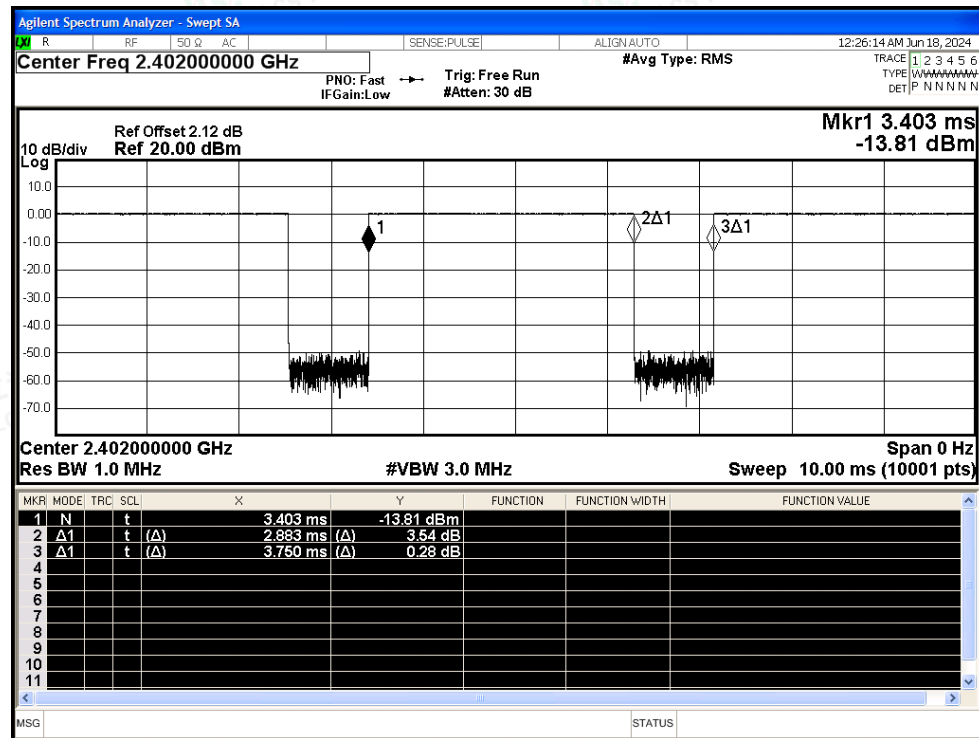
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	1-DH5	2402	Ant1	76.88	1.14	0.35
NVNT	1-DH5	2441	Ant1	76.88	1.14	0.35
NVNT	1-DH5	2480	Ant1	76.86	1.14	0.35
NVNT	2-DH5	2402	Ant1	76.96	1.14	0.35
NVNT	2-DH5	2441	Ant1	76.99	1.14	0.35
NVNT	2-DH5	2480	Ant1	76.96	1.14	0.35



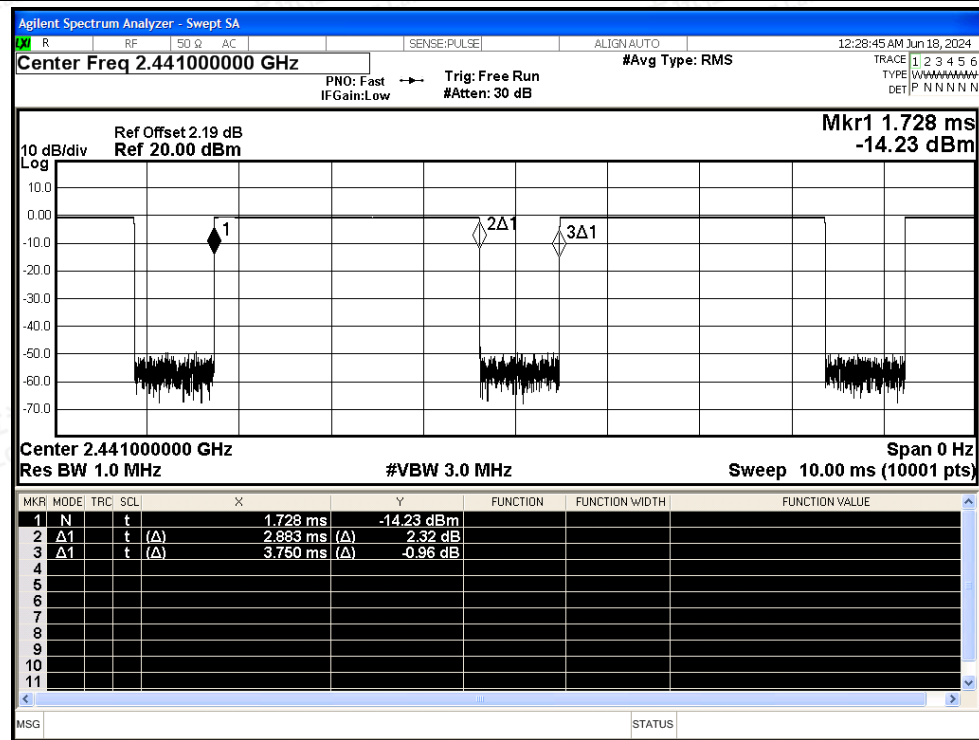


Test Graphs

Duty Cycle NVNT 1-DH5 2402MHz Ant1

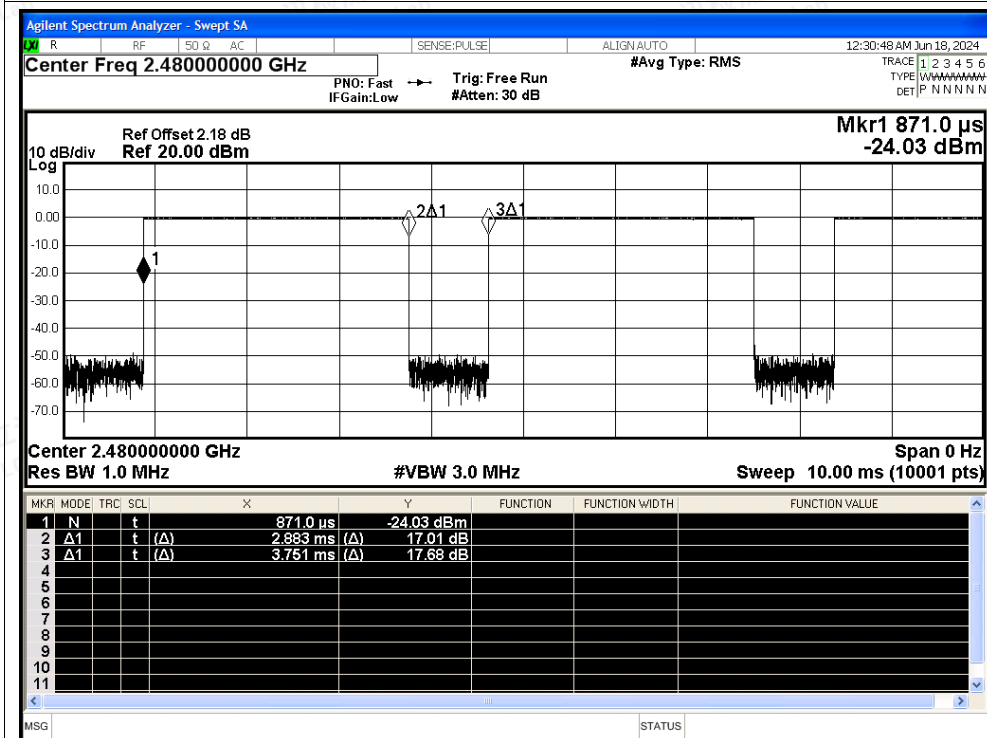


Duty Cycle NVNT 1-DH5 2441MHz Ant1

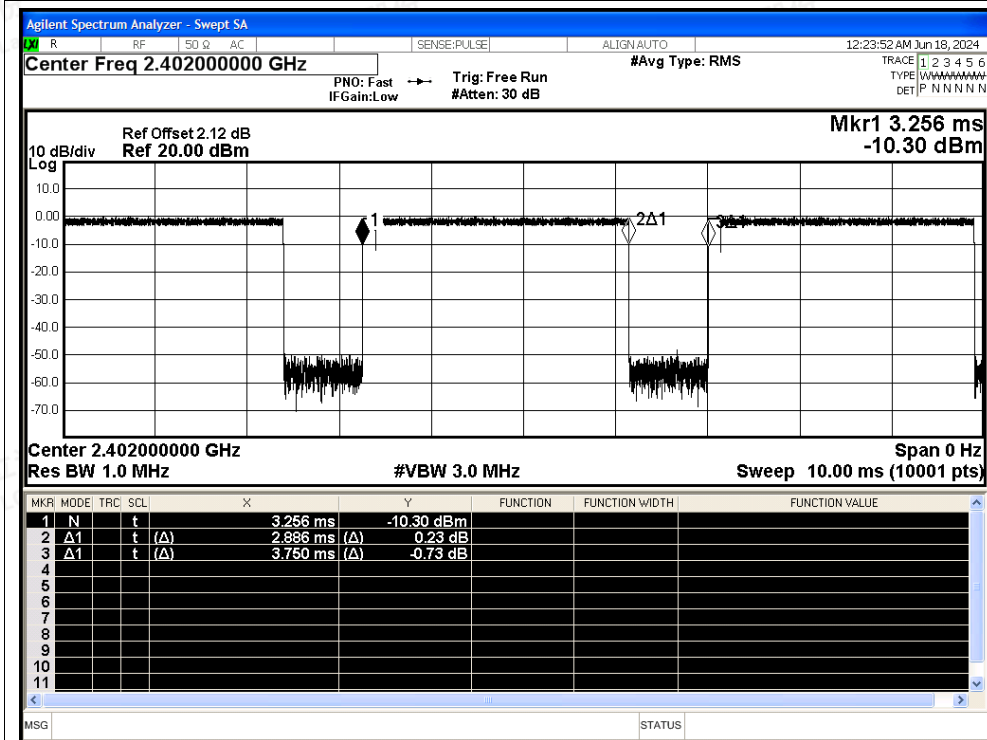




Duty Cycle NVNT 1-DH5 2480MHz Ant1

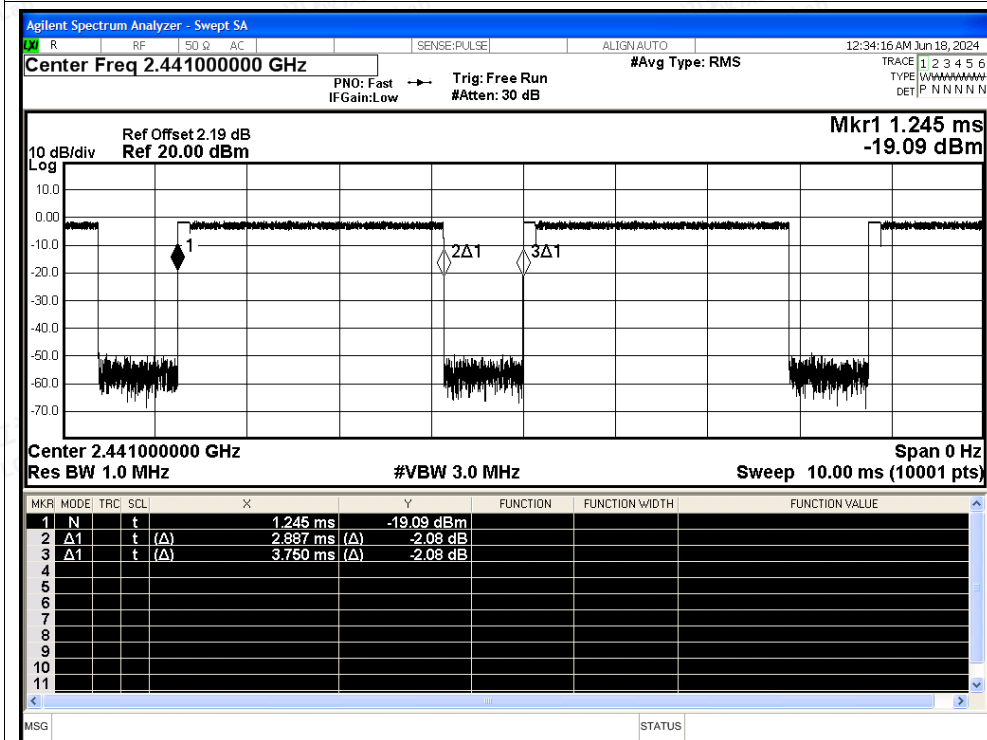


Duty Cycle NVNT 2-DH5 2402MHz Ant1

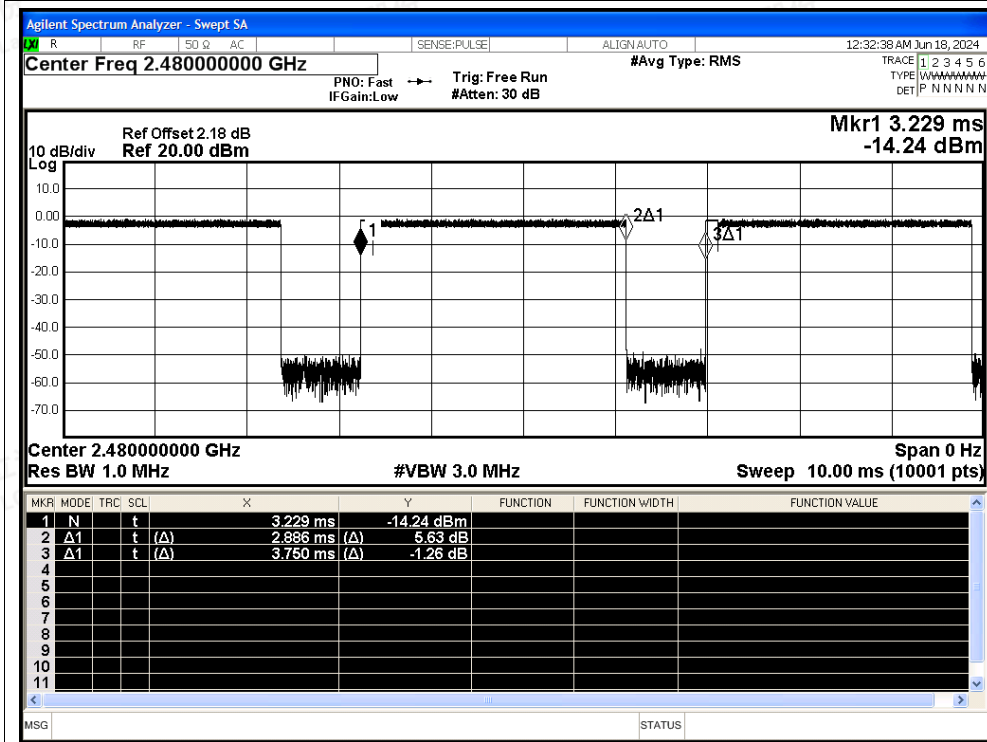




Duty Cycle NVNT 2-DH5 2441MHz Ant1



Duty Cycle NVNT 2-DH5 2480MHz Ant1





A.9 Restrict Band

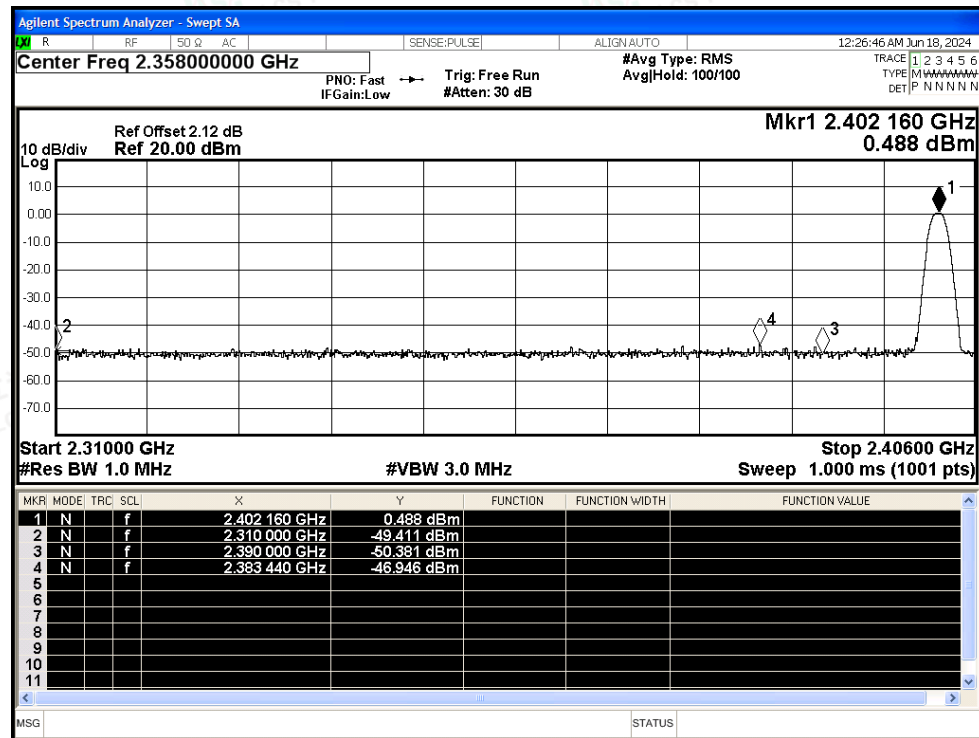
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-49.41	2	-	47.85	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-58.43	2	1.14	39.97	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2383.44	-46.95	2	-	50.31	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2338.8	-57.48	2	1.14	40.92	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-50.38	2	-	46.88	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-58.38	2	1.14	40.02	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-49.42	2	-	47.84	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-57.71	2	1.14	40.69	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2495.008	-47.53	2	-	49.73	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2487.472	-57.23	2	1.14	41.17	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-50.88	2	-	46.38	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-58.01	2	1.14	40.39	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-51.25	2	-	46.01	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-58.54	2	1.14	39.86	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2345.04	-47.38	2	-	49.88	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2317.68	-57.61	2	1.14	40.79	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-50.62	2	-	46.64	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-58.42	2	1.14	39.98	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-48.74	2	-	48.52	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-57.74	2	1.14	40.66	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2490.28	-46.44	2	-	50.82	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2486.704	-57.09	2	1.14	41.31	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-50.26	2	-	47.00	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-57.79	2	1.14	40.61	Average	54	Pass



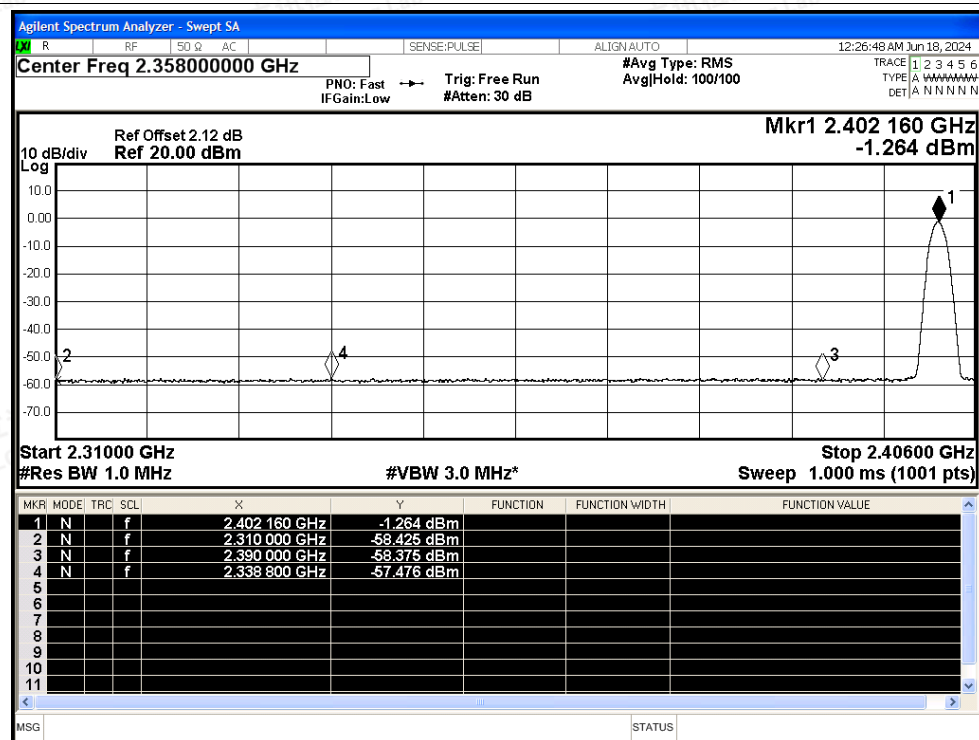


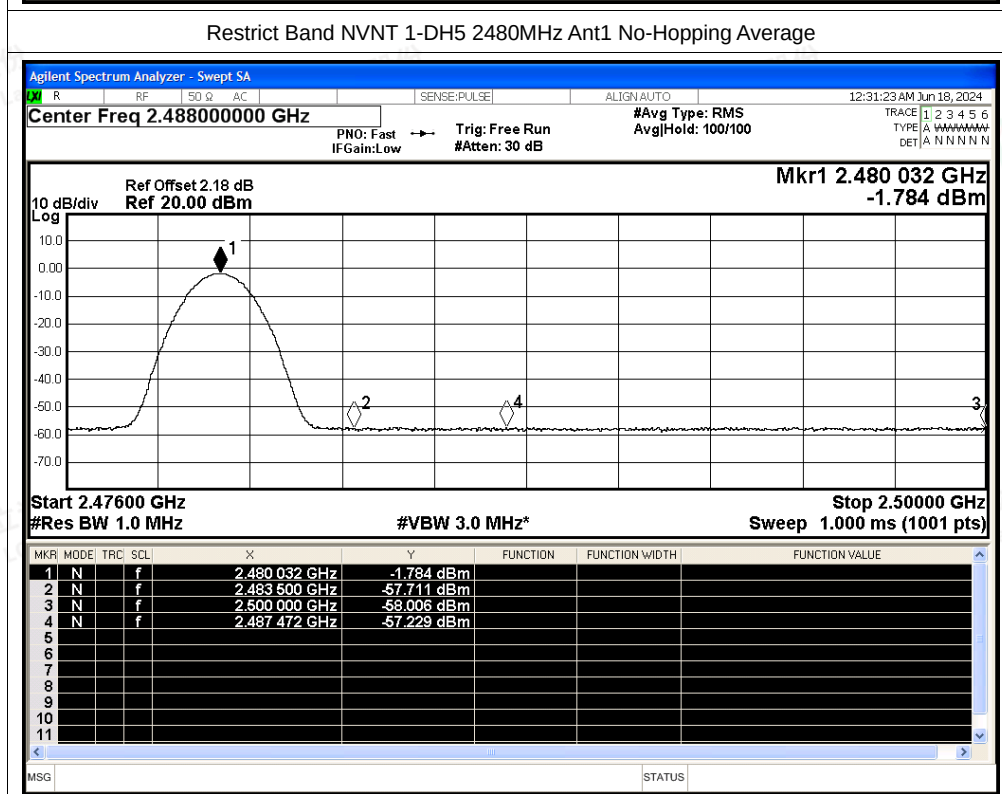
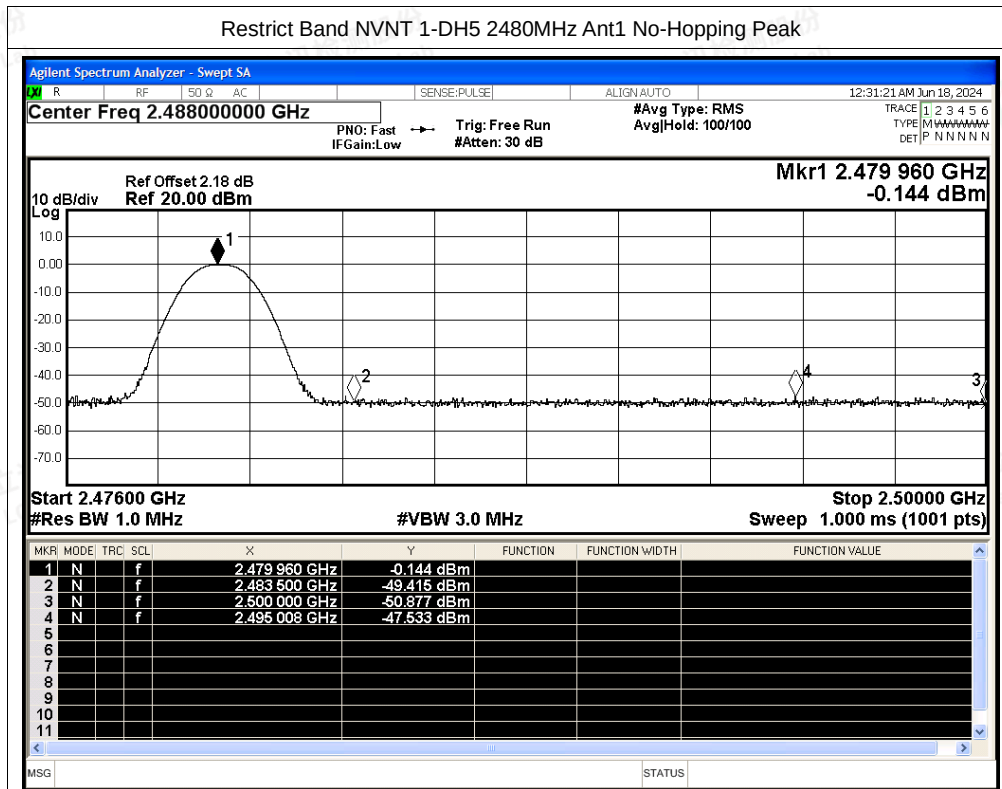
Test Graphs

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



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



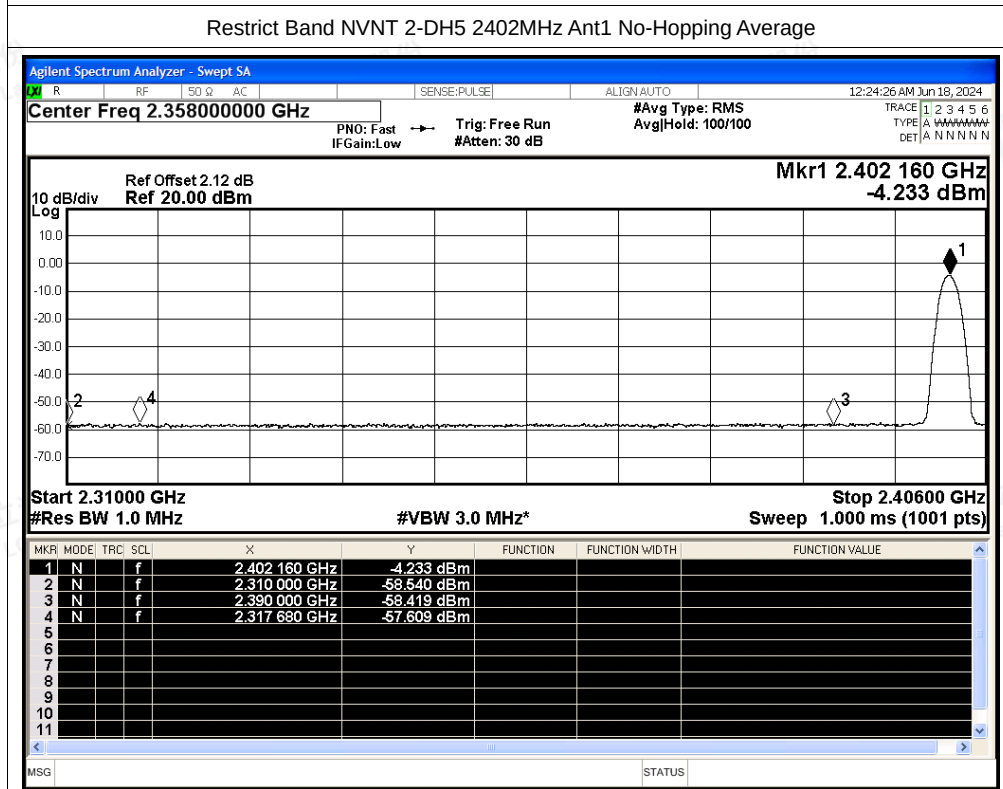
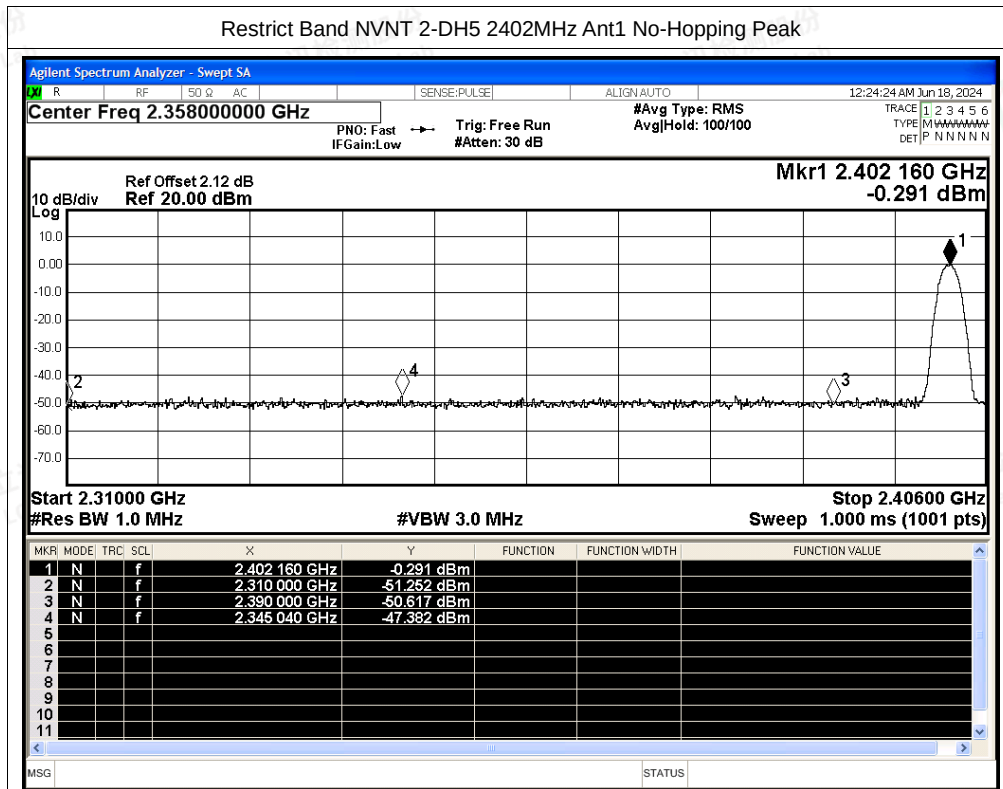


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