



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: MINI SPEAKER

Test Model: C01

Environmental Conditions

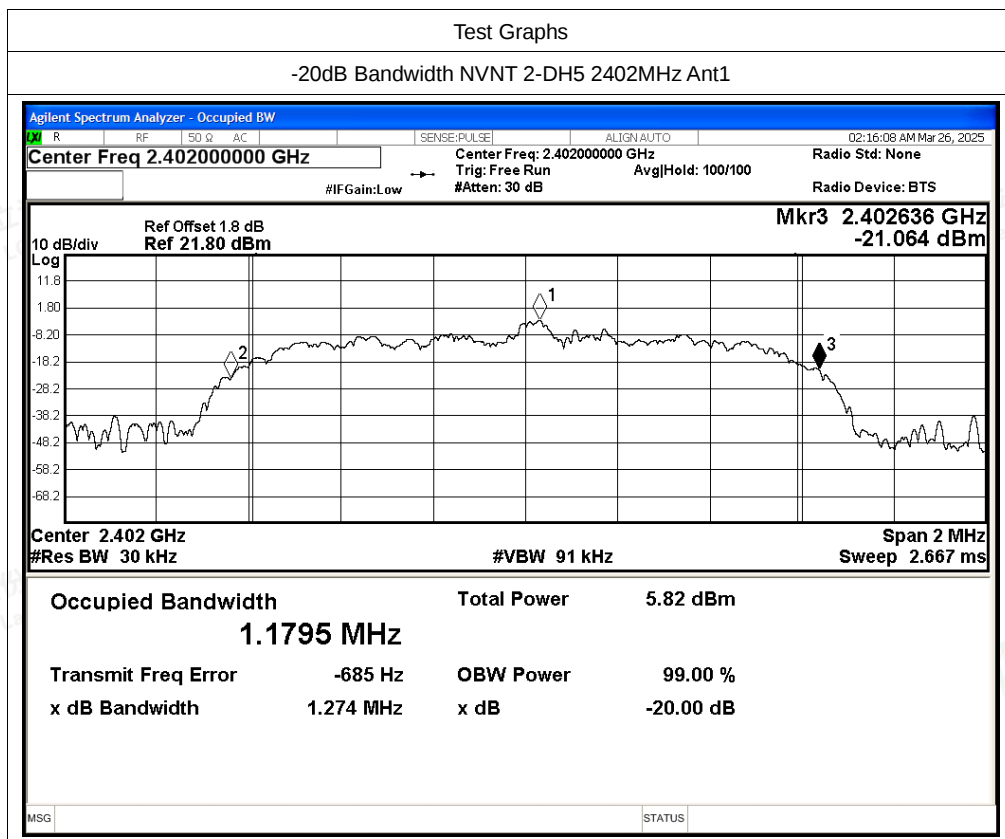
Temperature:	23.8° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Jose Zhu
Supervised by:	Nick Peng





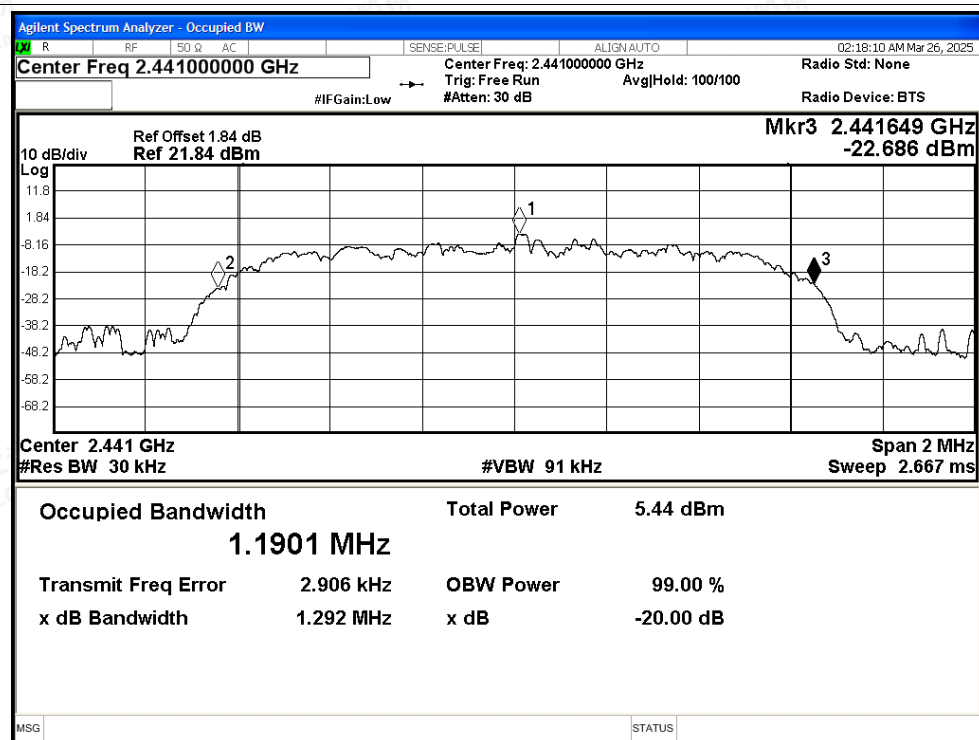
A.1 -20dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	2-DH5	2402	Ant1	1.274	N/A	Pass
NVNT	2-DH5	2441	Ant1	1.292	N/A	Pass
NVNT	2-DH5	2480	Ant1	1.282	N/A	Pass

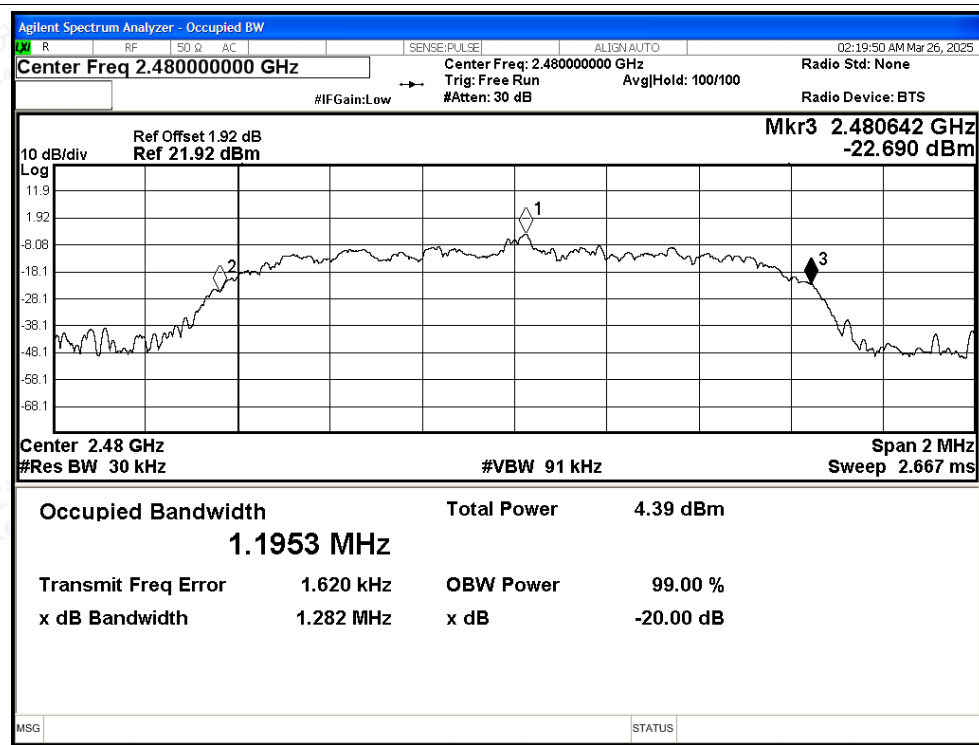




-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1



-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1



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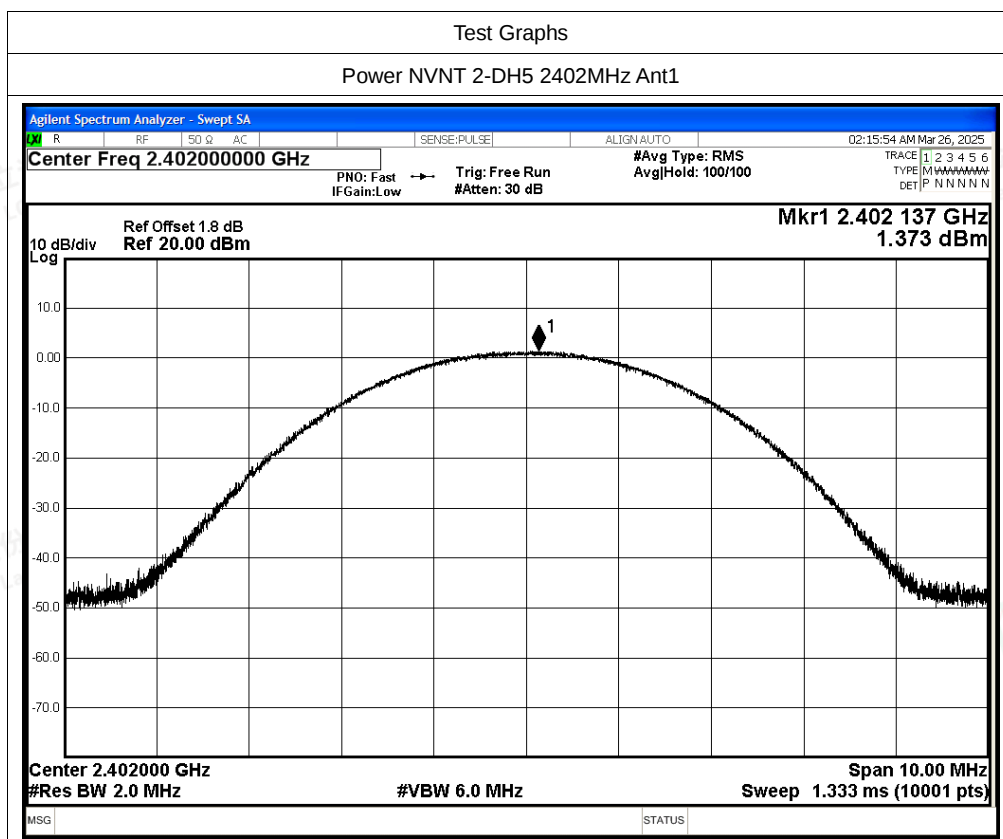
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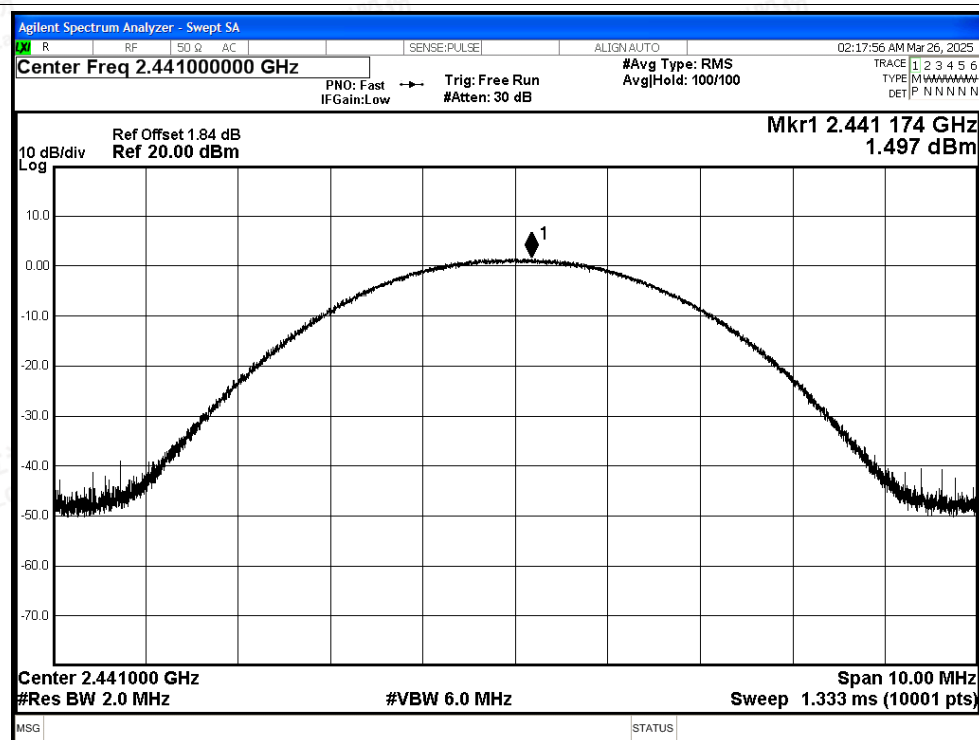
A.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	2-DH5	2402	Ant1	1.37	21	Pass
NVNT	2-DH5	2441	Ant1	1.50	21	Pass
NVNT	2-DH5	2480	Ant1	0.39	21	Pass

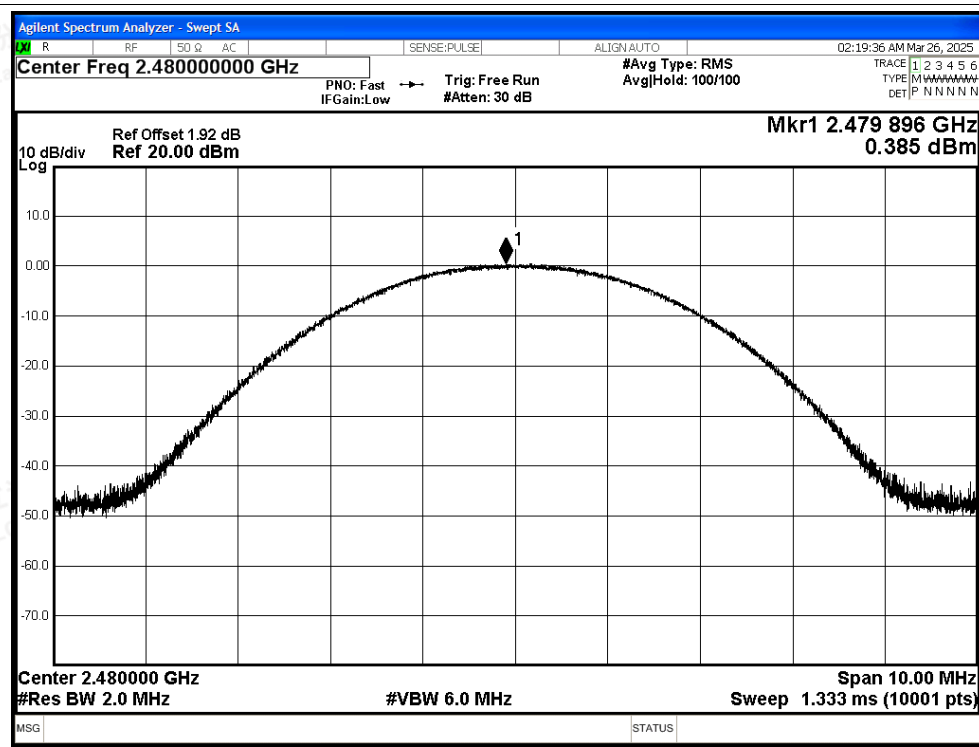




Power NVNT 2-DH5 2441MHz Ant1



Power NVNT 2-DH5 2480MHz Ant1



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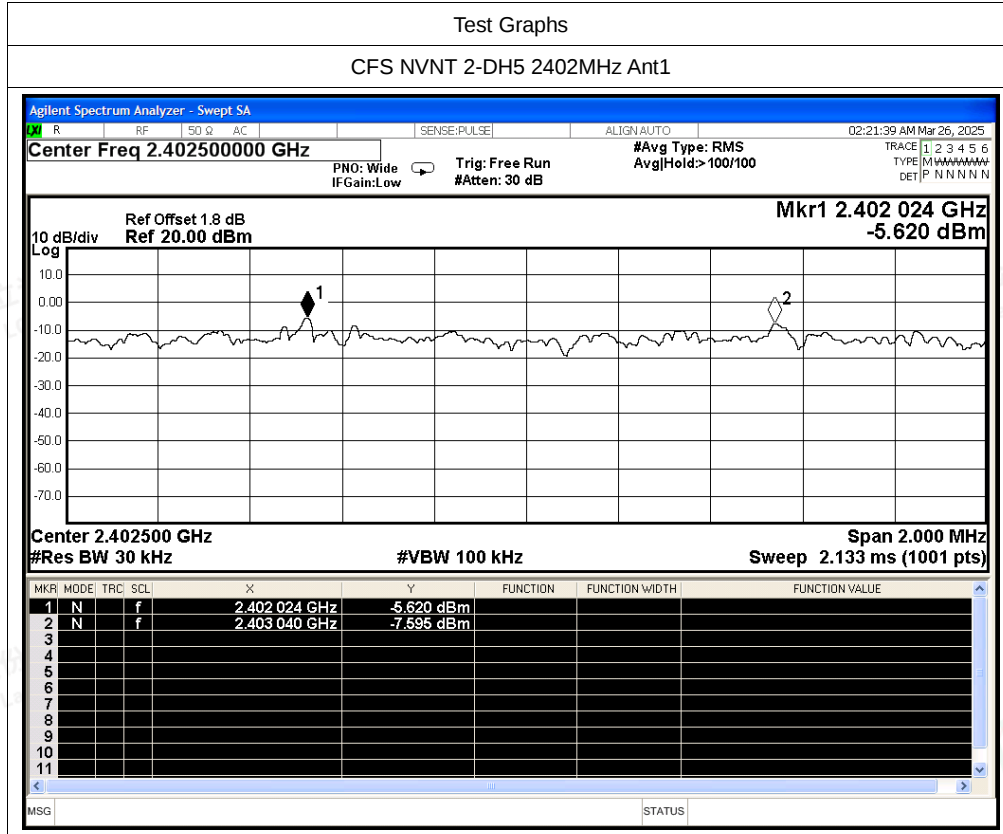
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A.3 Carrier Frequencies Separation

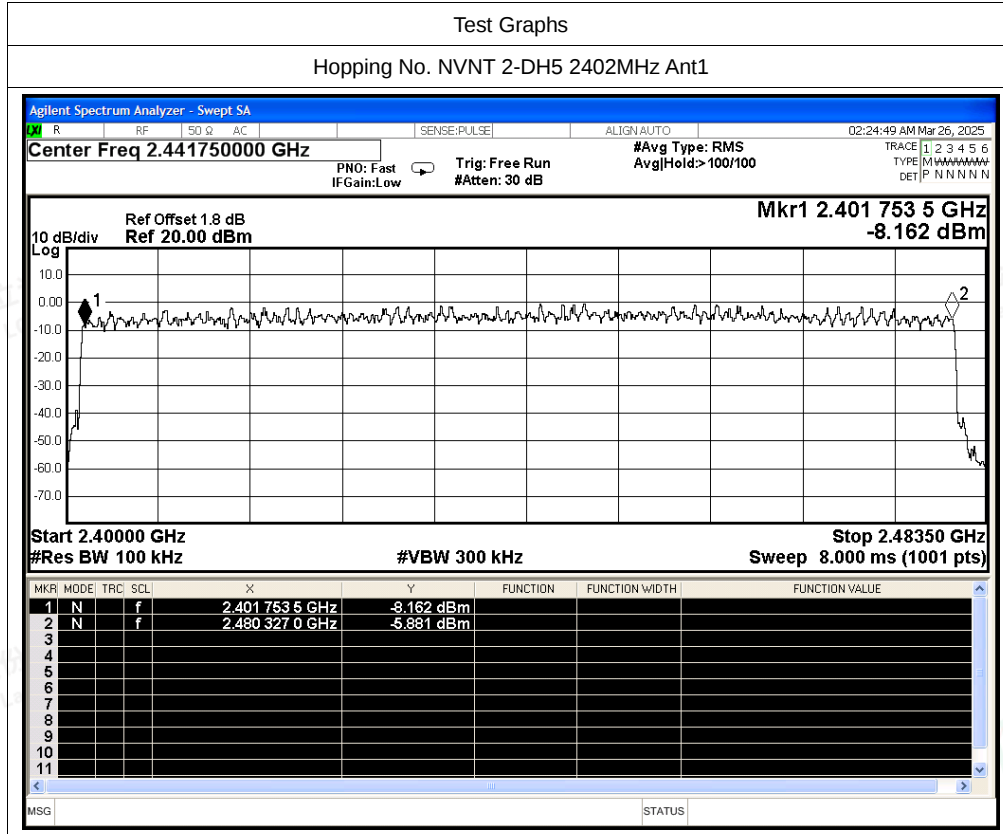
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	2-DH5	Ant1	2402.024	2403.04	1.016	0.861	Pass





A.5 Number of Hopping Channel

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





A.4 Dwell Time

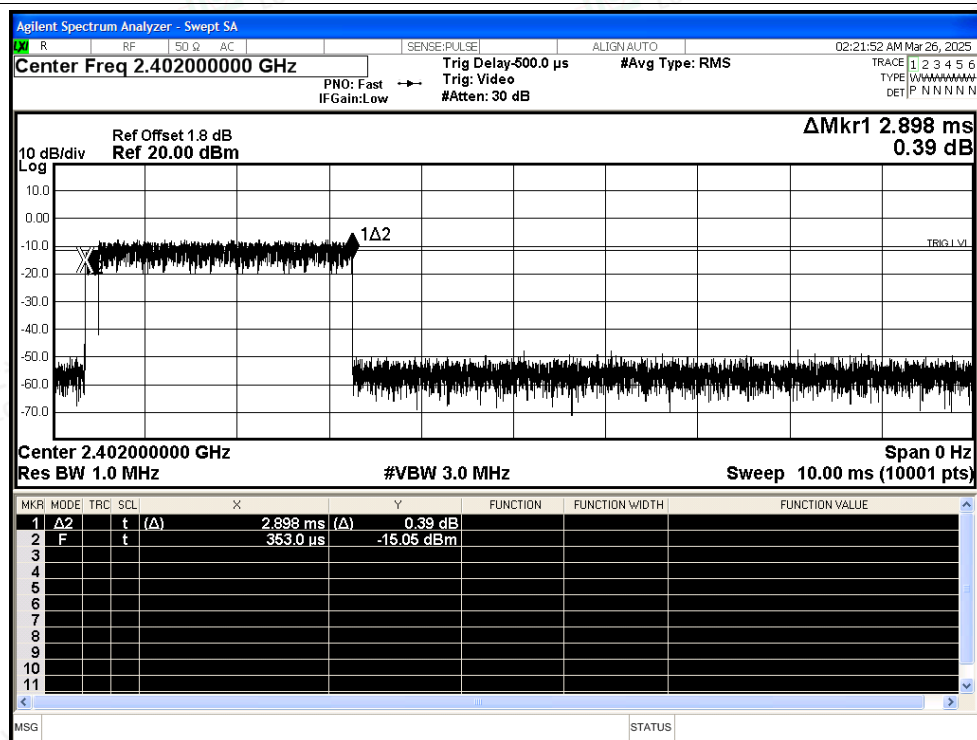
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	2-DH5	2402	Ant1	2.898	330.372	114	31600	400	Pass



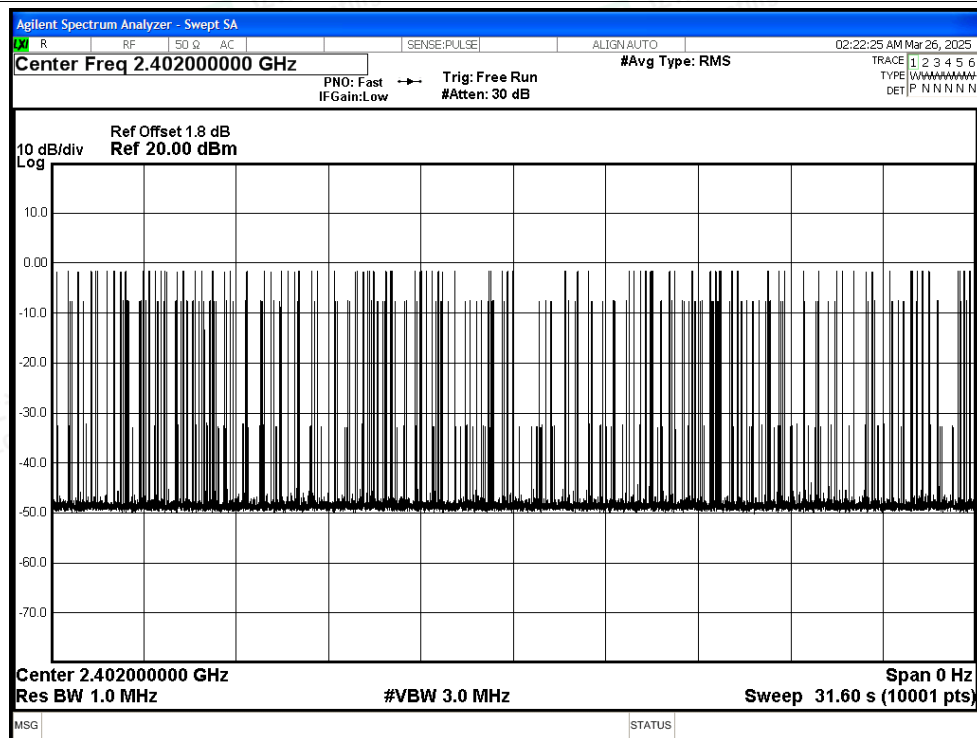


Test Graphs

Dwell NVNT 2-DH5 2402MHz Ant1 One Burst



Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated





A.6 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	2-DH5	2402	Ant1	No-Hopping	-52.55	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-52.51	-20	Pass

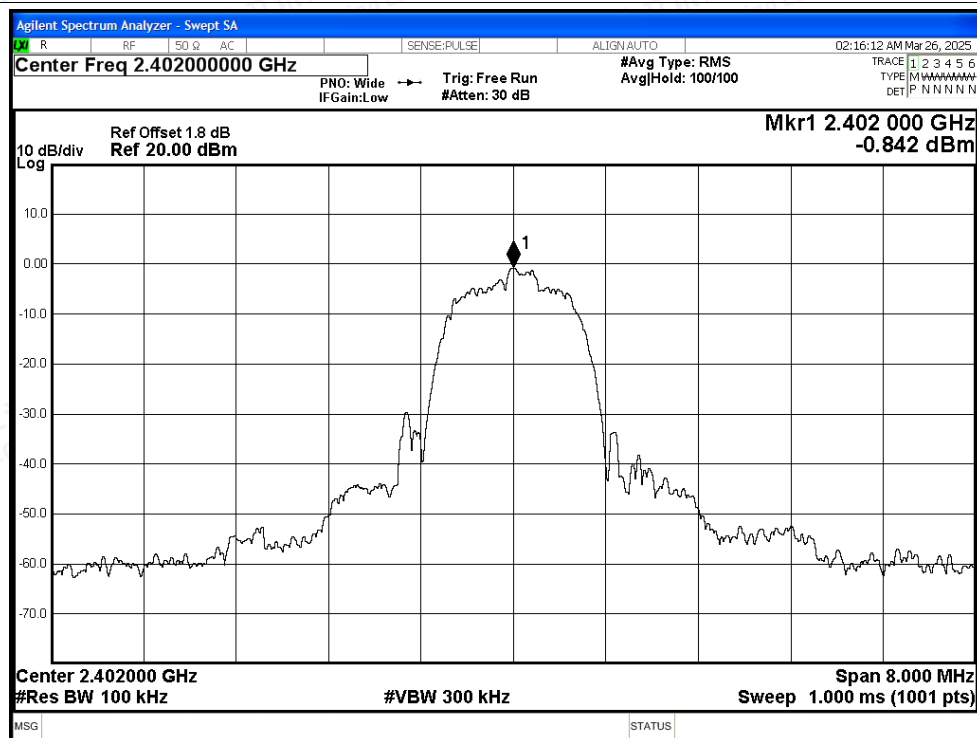


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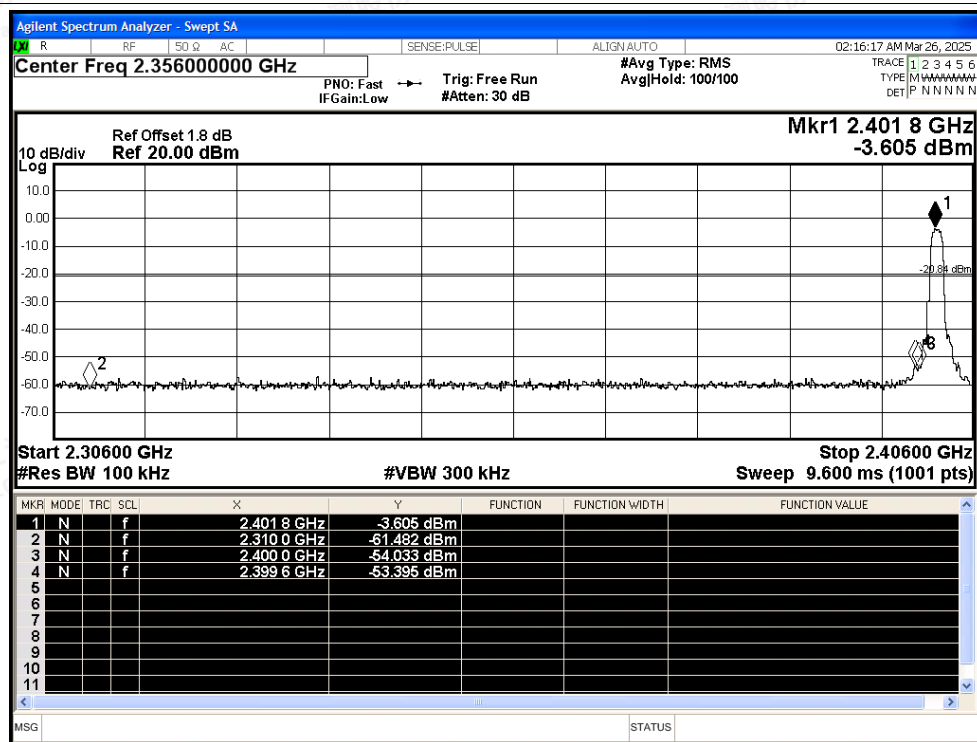


Test Graphs

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

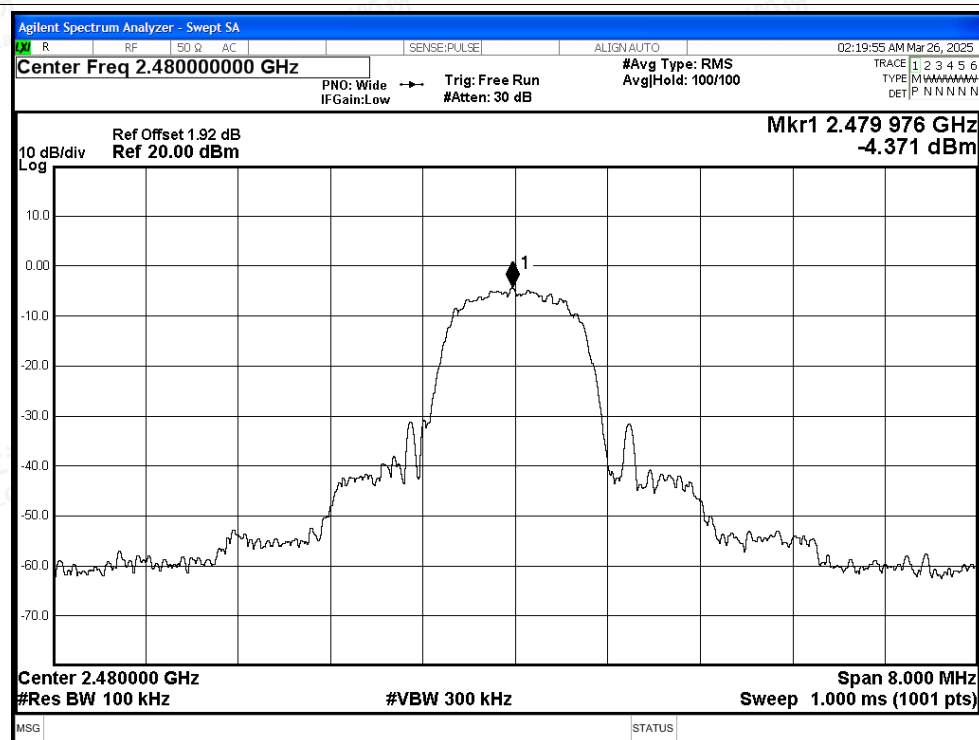


Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission

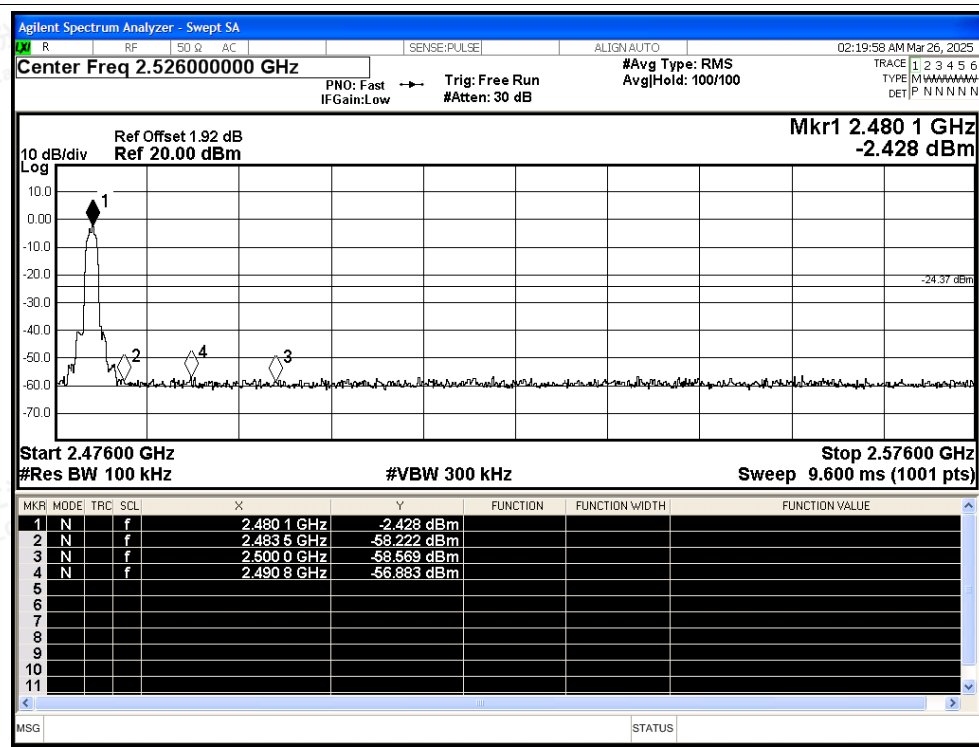




Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref



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



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**(Hopping)**

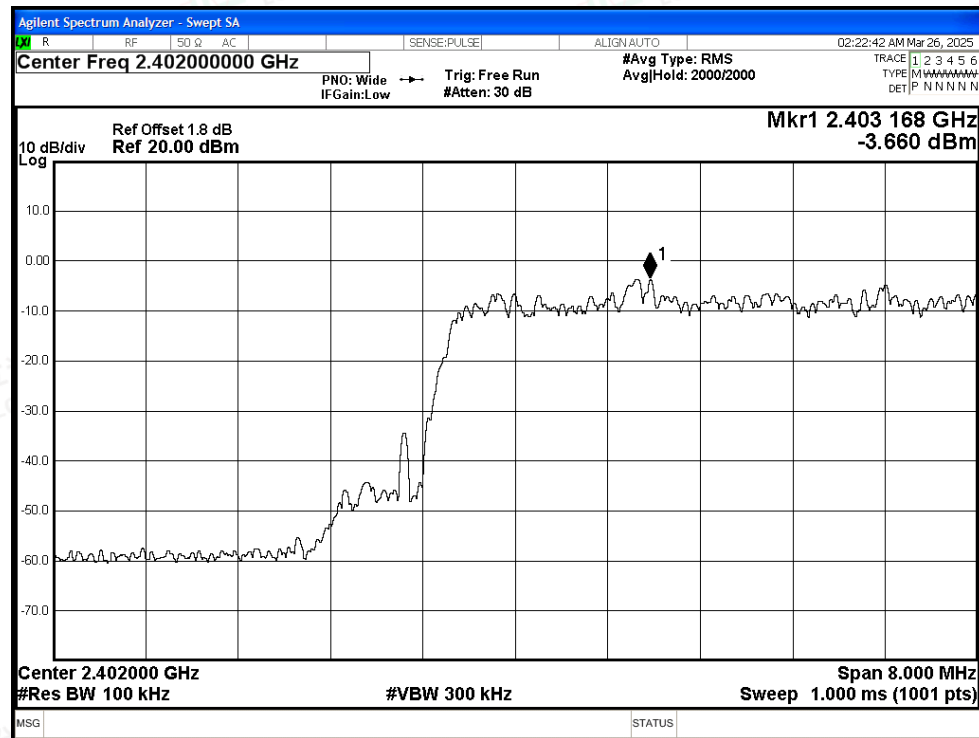
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	2-DH5	2402	Ant1	Hopping	-52.53	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-53.5	-20	Pass



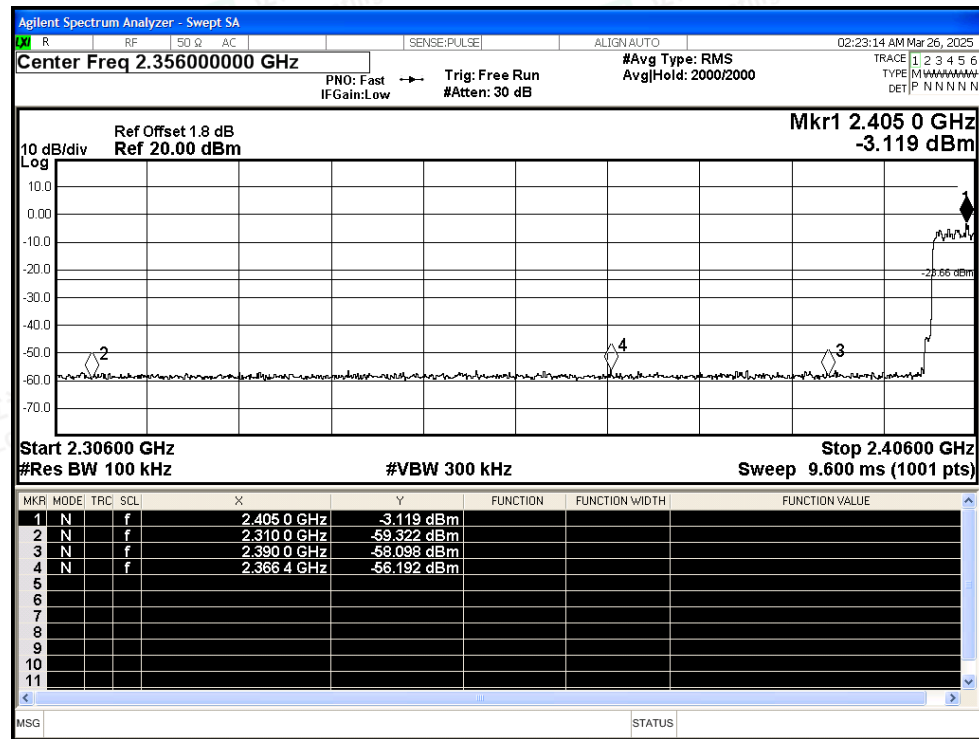


Test Graphs

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

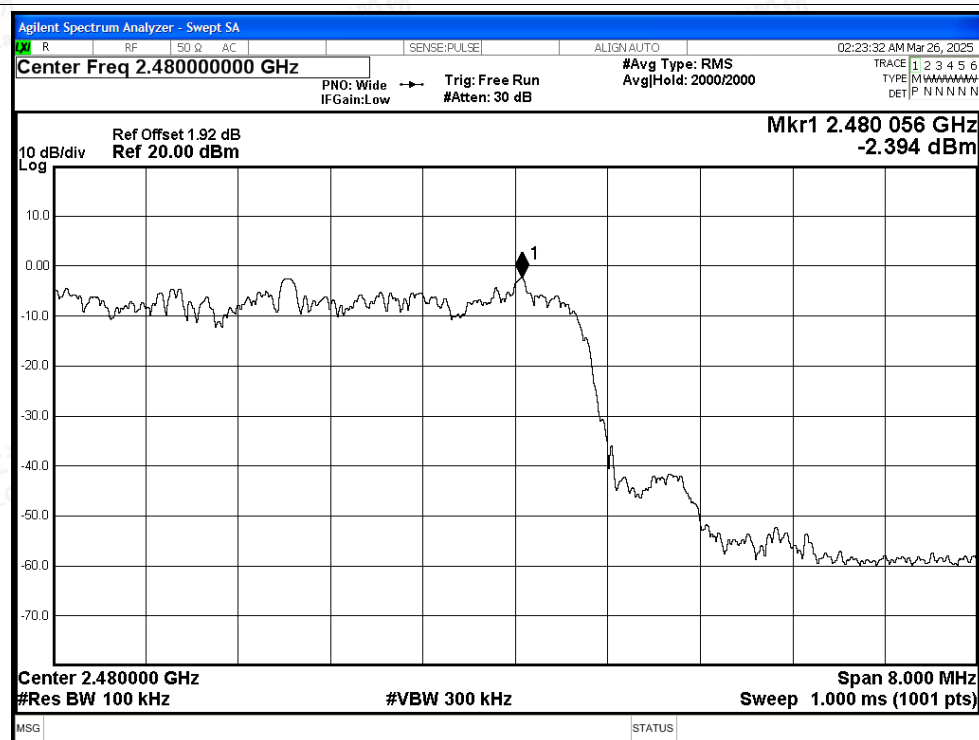


Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Emission

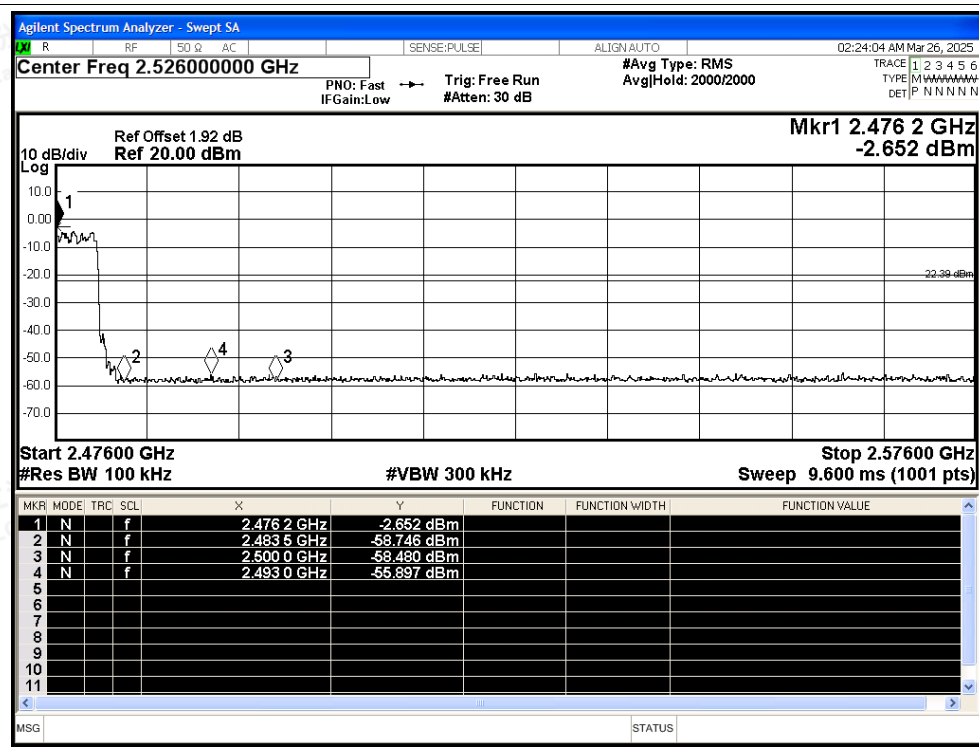




Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Ref



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



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A.7 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	2-DH5	2402	Ant1	-54.36	-20	Pass
NVNT	2-DH5	2441	Ant1	-54.76	-20	Pass
NVNT	2-DH5	2480	Ant1	-53.21	-20	Pass

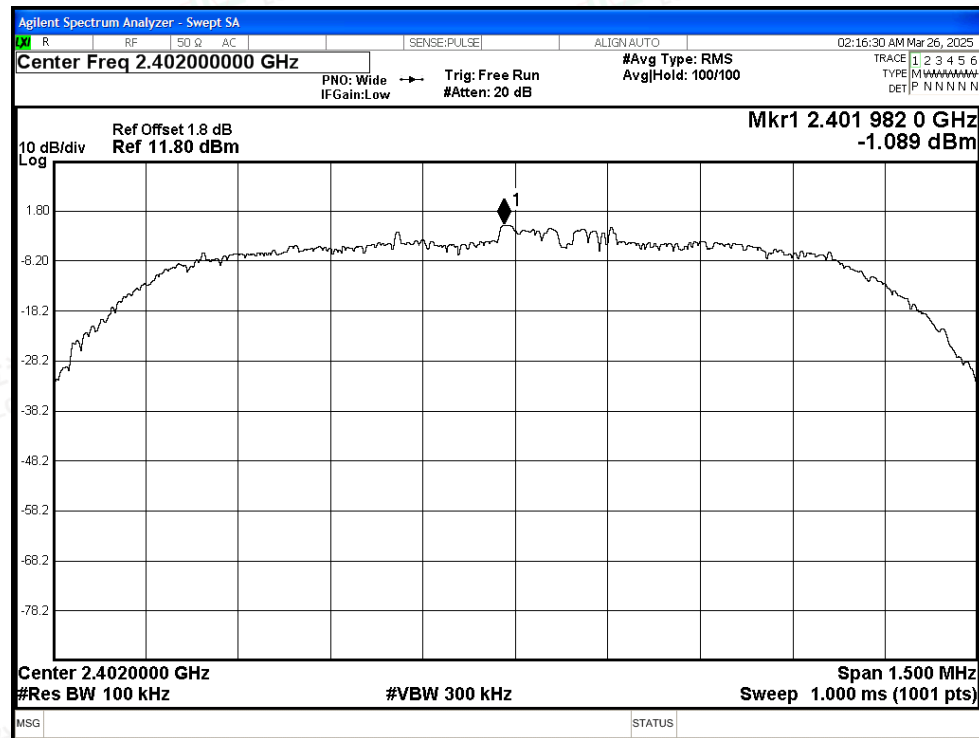


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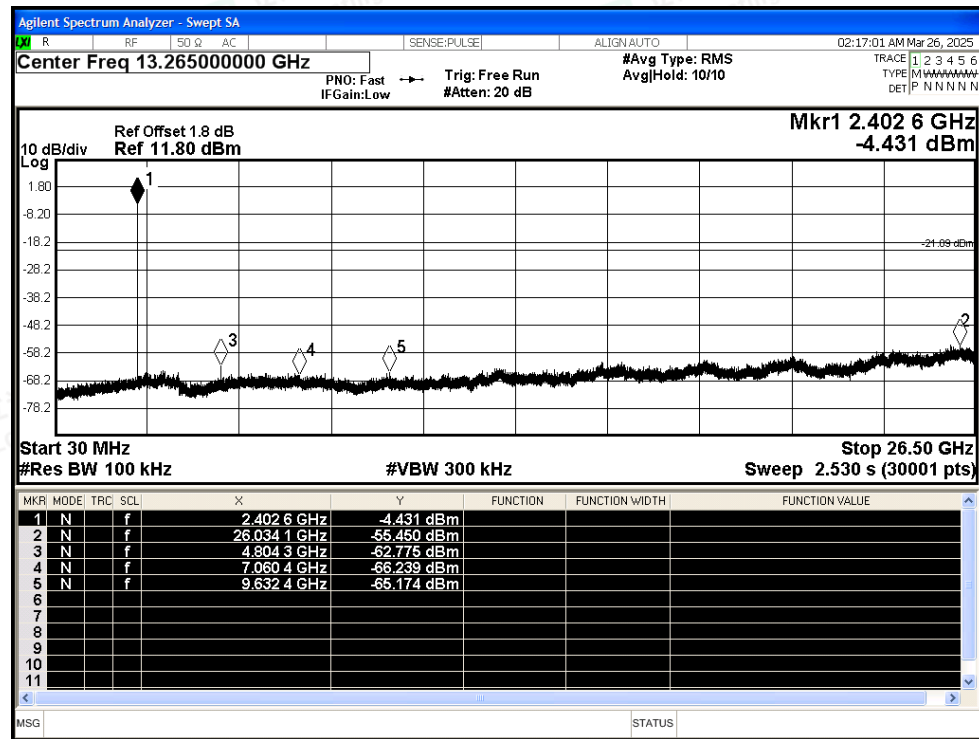


Test Graphs

Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref

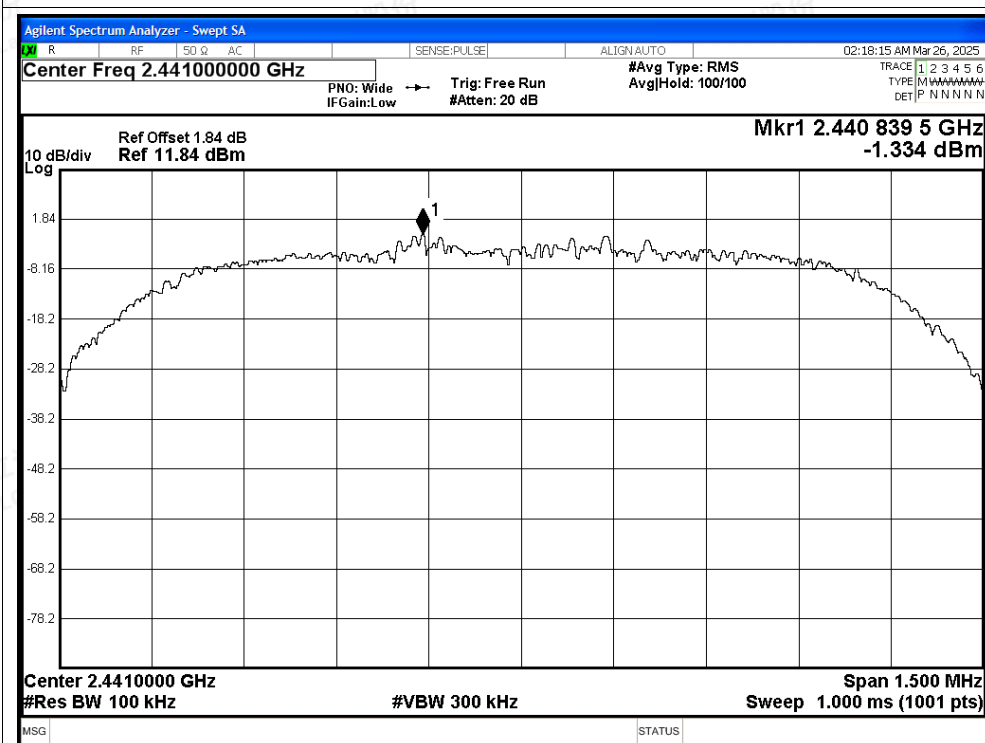


Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission

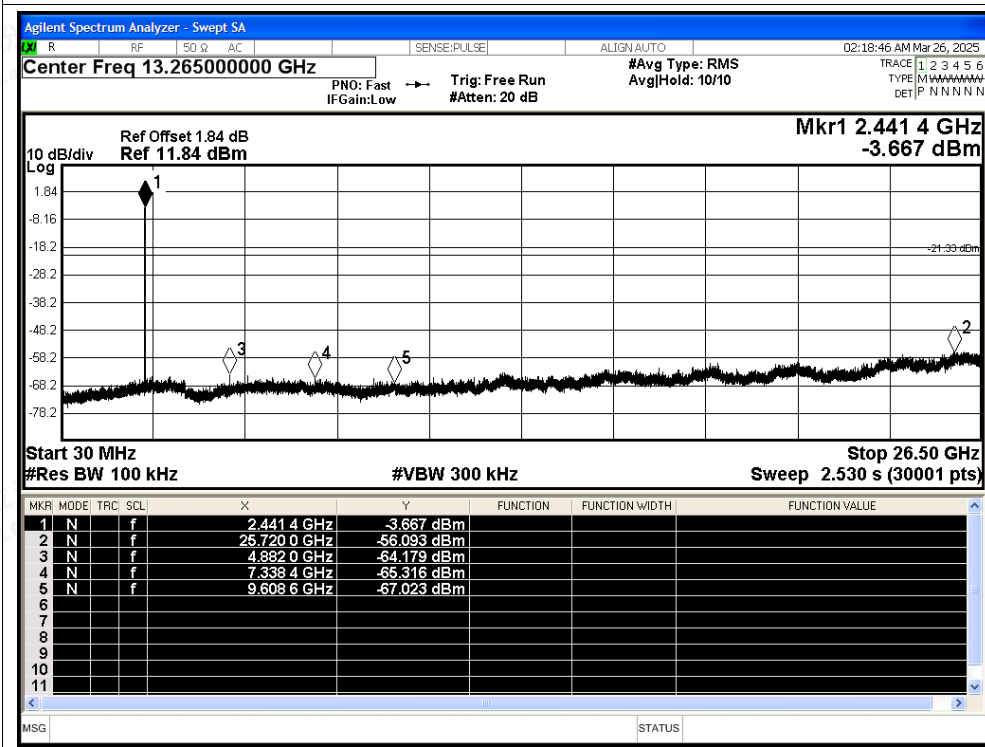




Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission



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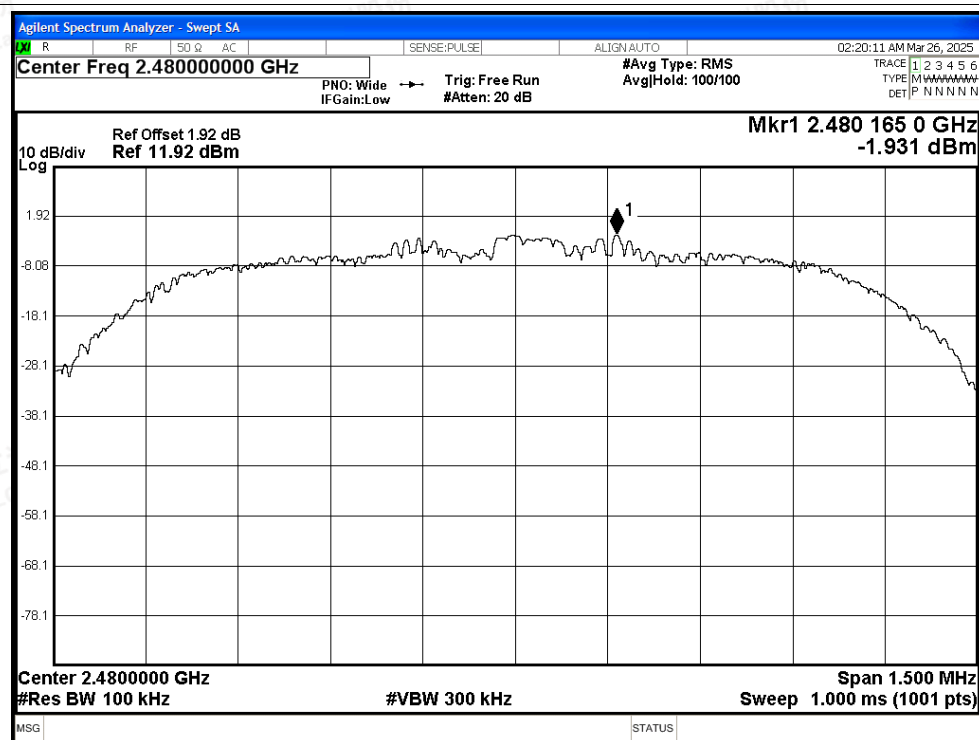
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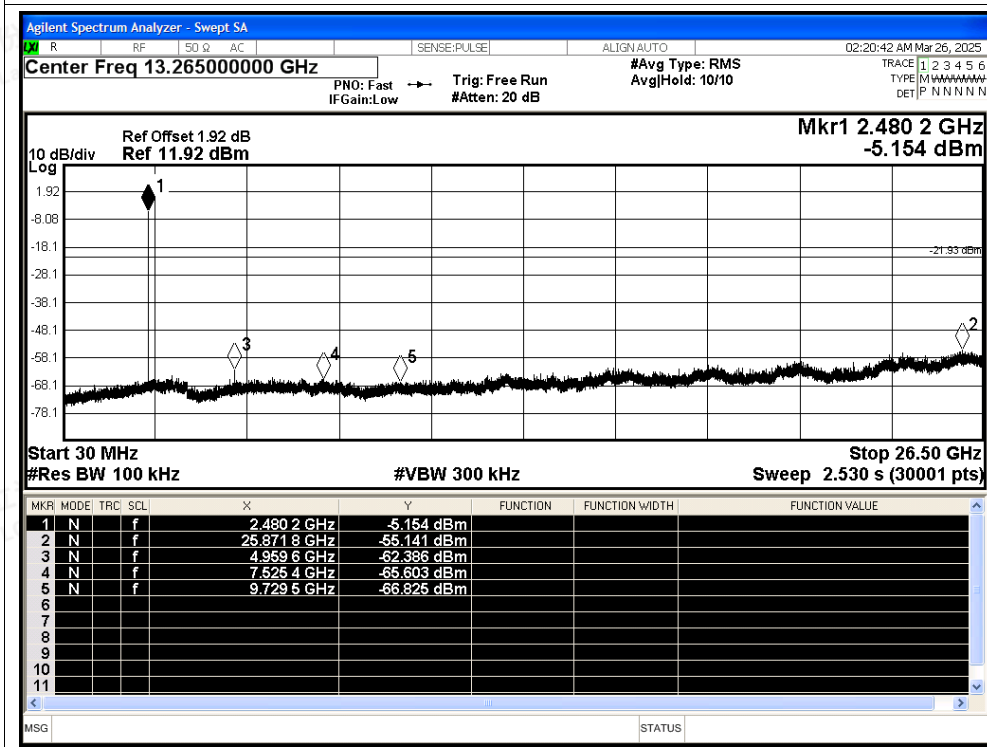
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Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Emission



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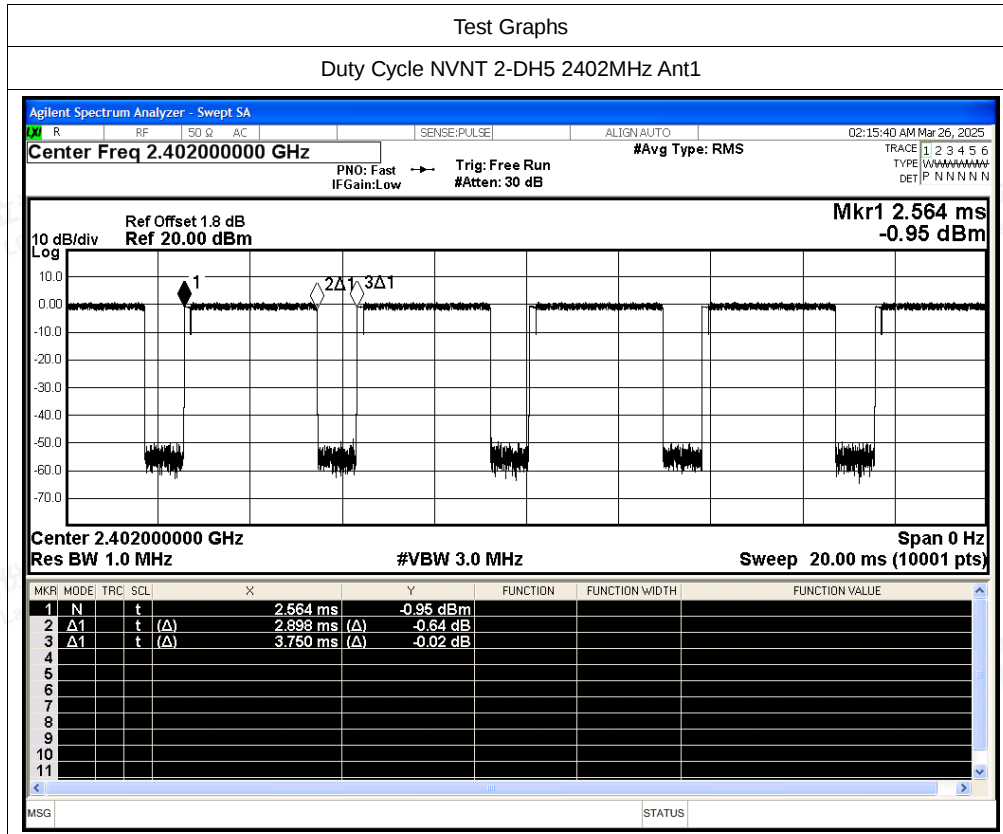
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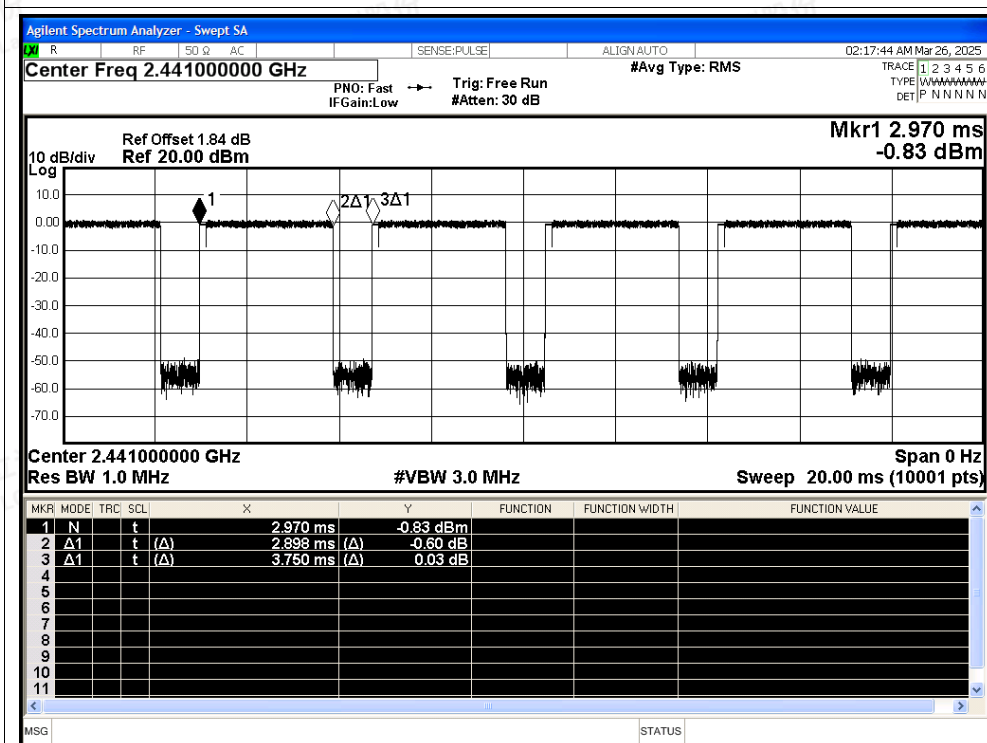
A.8 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	2-DH5	2402	Ant1	77.28	1.12	0.35
NVNT	2-DH5	2441	Ant1	77.28	1.12	0.35
NVNT	2-DH5	2480	Ant1	77.28	1.12	0.35

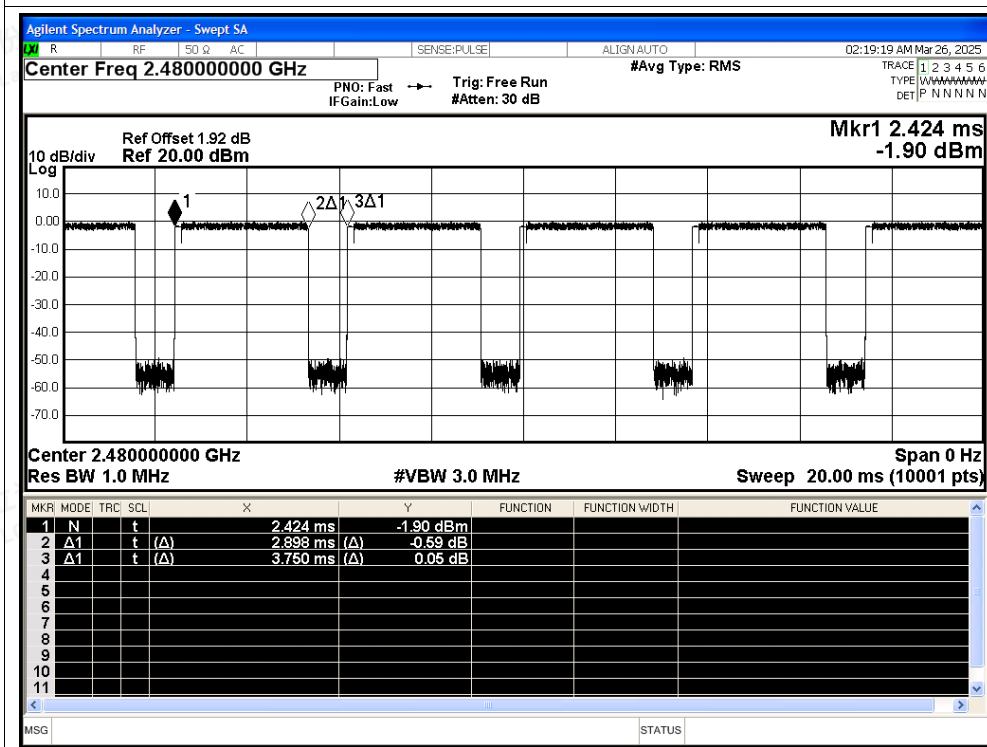




Duty Cycle NVNT 2-DH5 2441MHz Ant1



Duty Cycle NVNT 2-DH5 2480MHz Ant1





A.9 Restrict Band

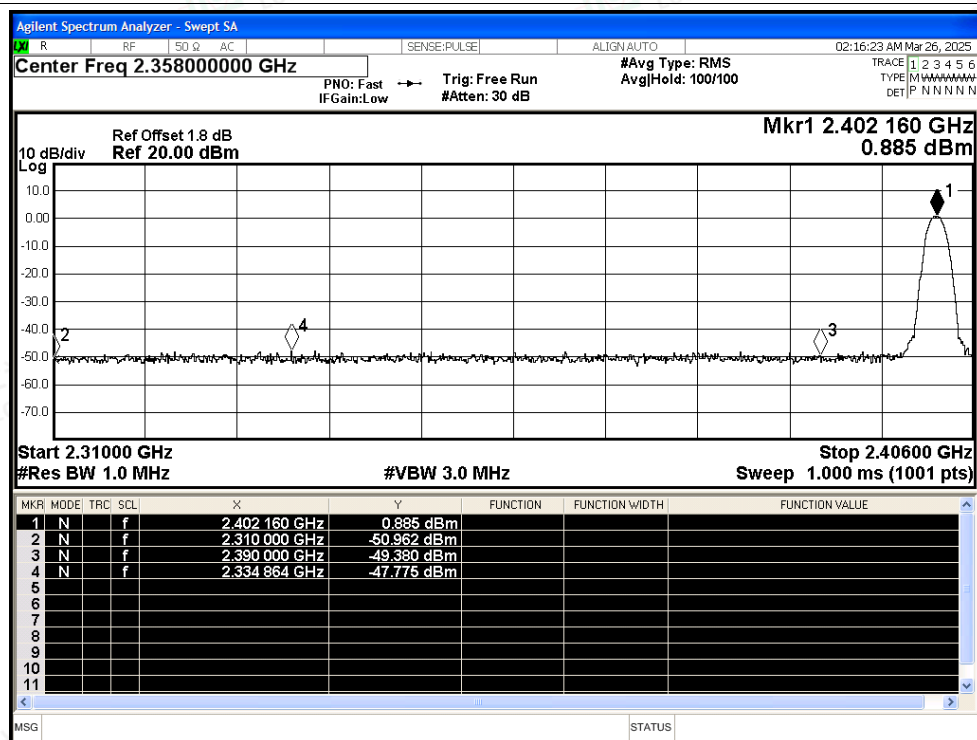
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-50.96	2	-	46.3	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-59	2	1.12	39.38	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2334.864	-47.78	2	-	49.48	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2380.752	-57.82	2	1.12	40.56	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-49.38	2	-	47.88	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-58.59	2	1.12	39.79	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-48.07	2	-	49.19	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-57.39	2	1.12	40.99	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2487.376	-47.42	2	-	49.84	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.68	-57.13	2	1.12	41.25	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-50.05	2	-	47.21	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-57.91	2	1.12	40.47	Average	54	Pass



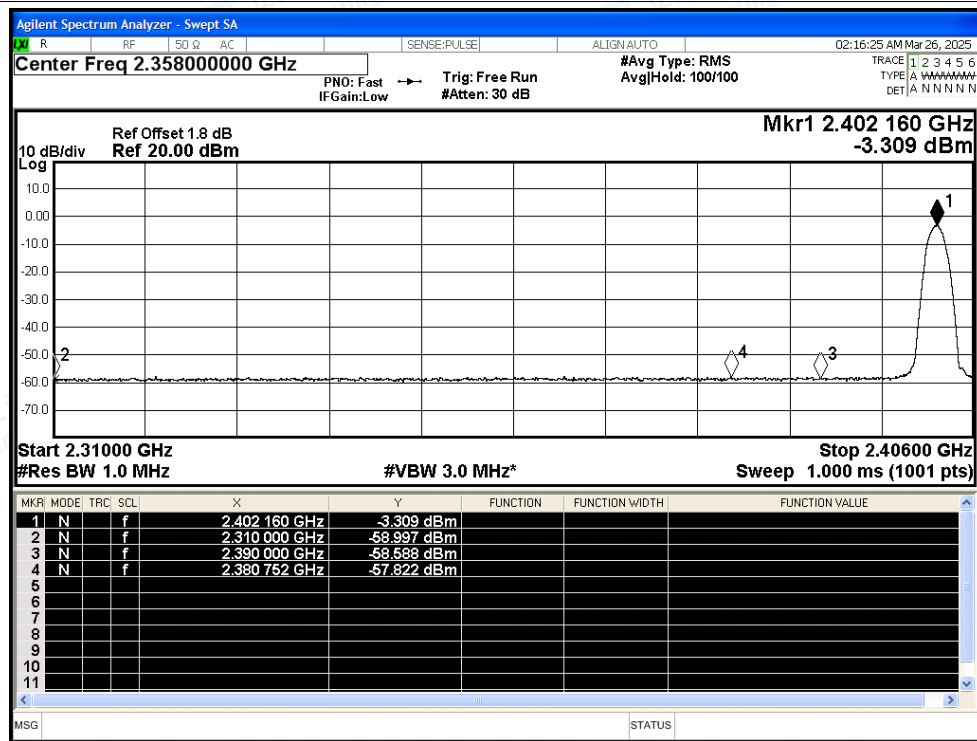


Test Graphs

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

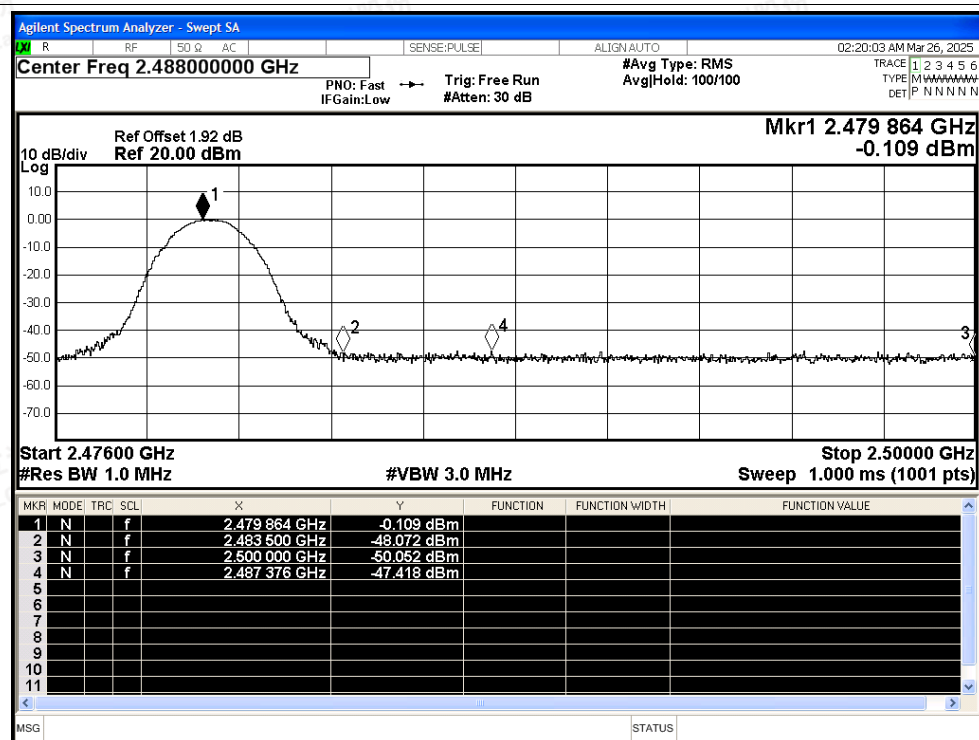


Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Average

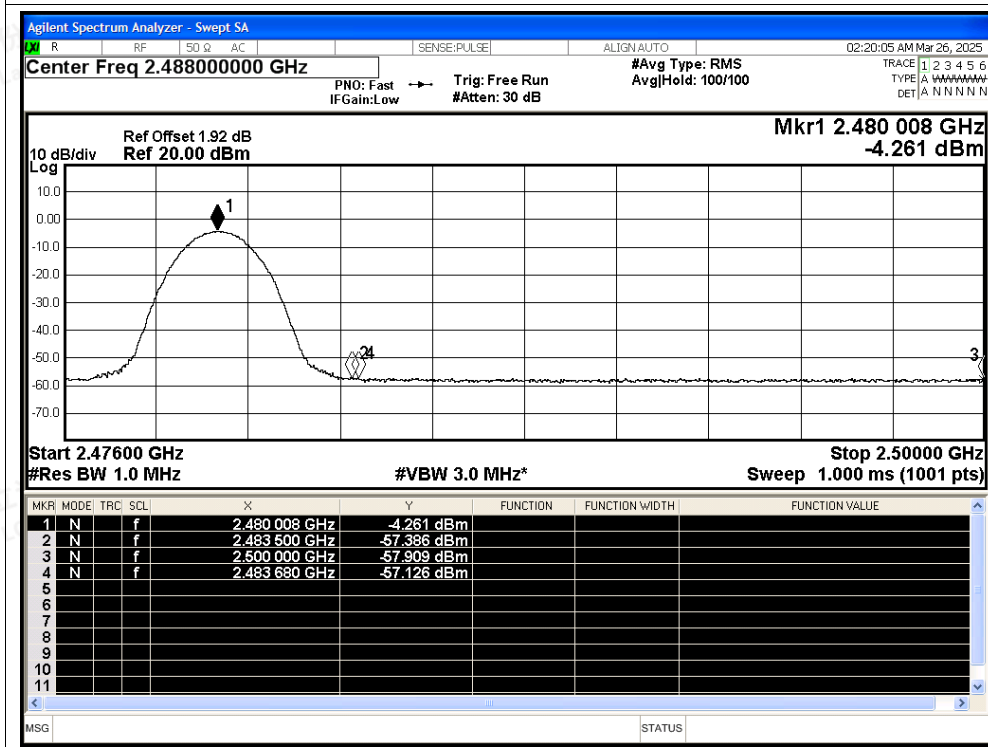




Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Peak



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



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