



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Karaoke machine

Test Model: K26

Environmental Conditions

Temperature:	23.4° C
Relative Humidity:	52.6%
ATM Pressure:	100.0 kPa
Test Engineer:	Jerry Chu
Supervised by:	Nick Peng





A.1 -20dB Bandwidth

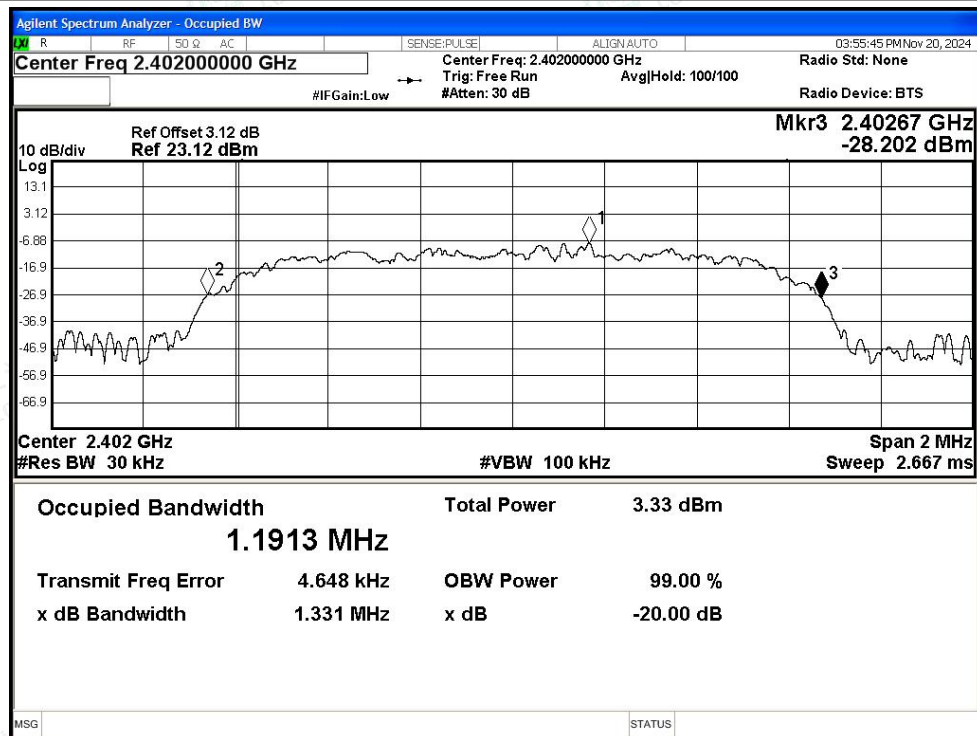
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	2-DH5	2402	Ant1	1.331	N/A	Pass
NVNT	2-DH5	2441	Ant1	1.288	N/A	Pass
NVNT	2-DH5	2480	Ant1	1.288	N/A	Pass



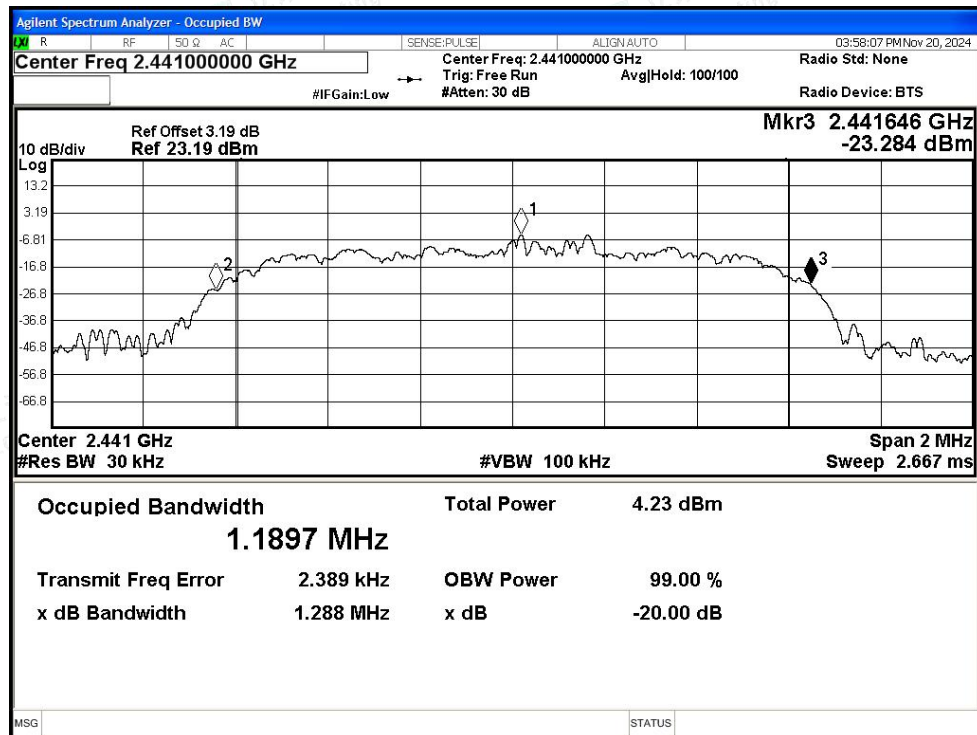


Test Graphs

-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1

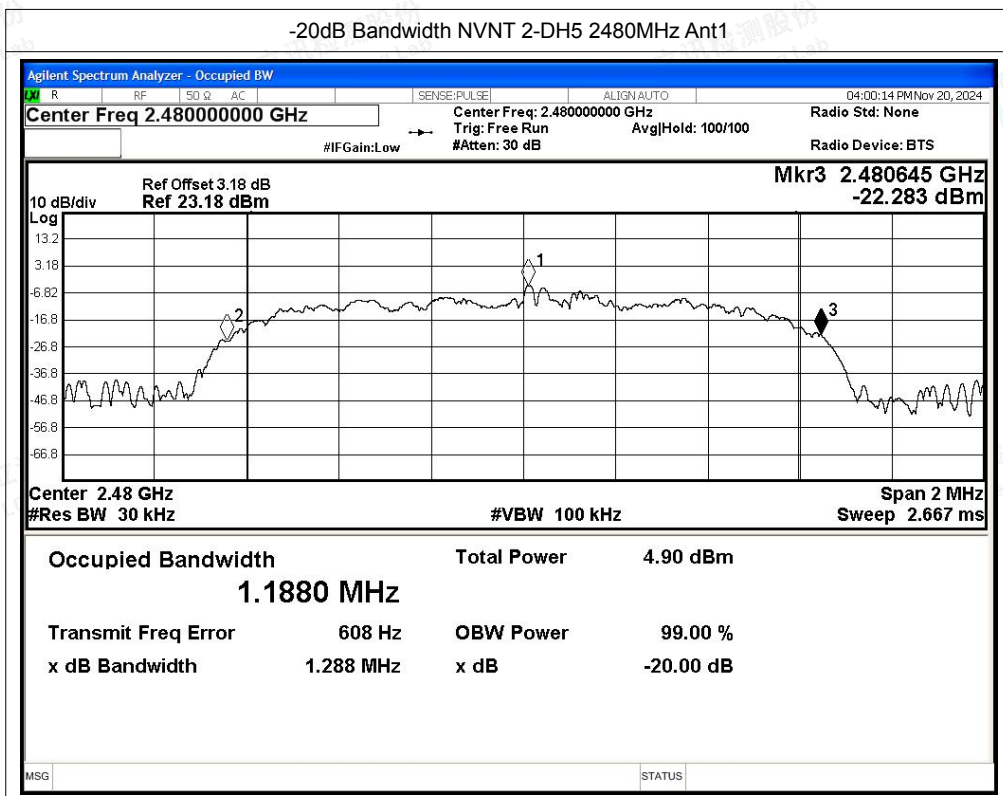


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A.2 Maximum Peak Conducted Output Power

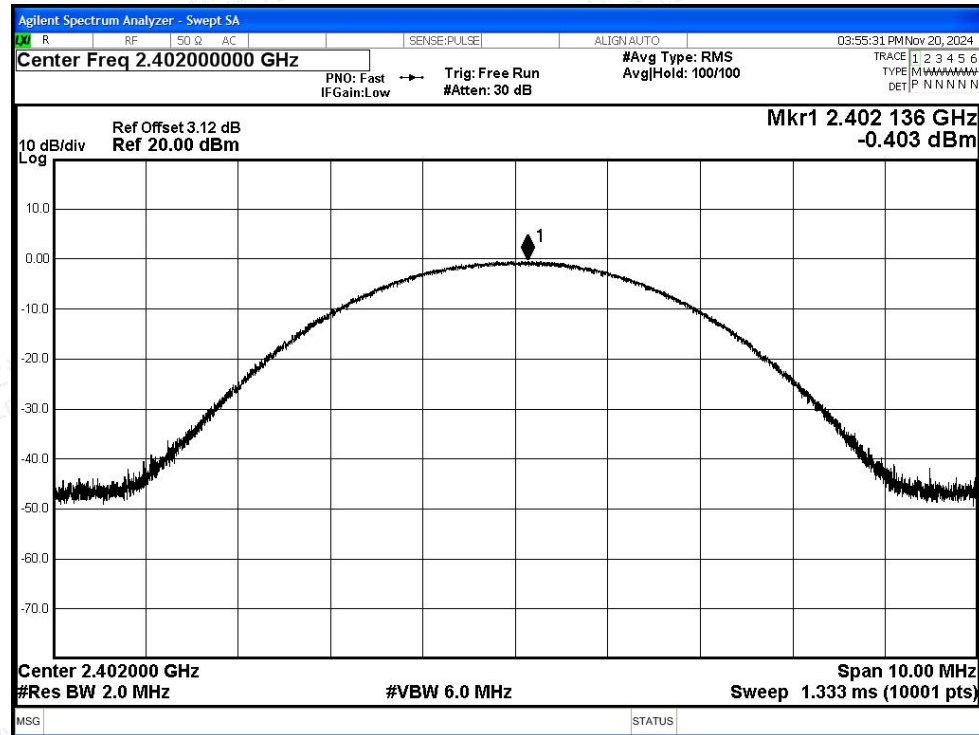
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	2-DH5	2402	Ant1	-0.4	21	Pass
NVNT	2-DH5	2441	Ant1	-0.09	21	Pass
NVNT	2-DH5	2480	Ant1	0.64	21	Pass



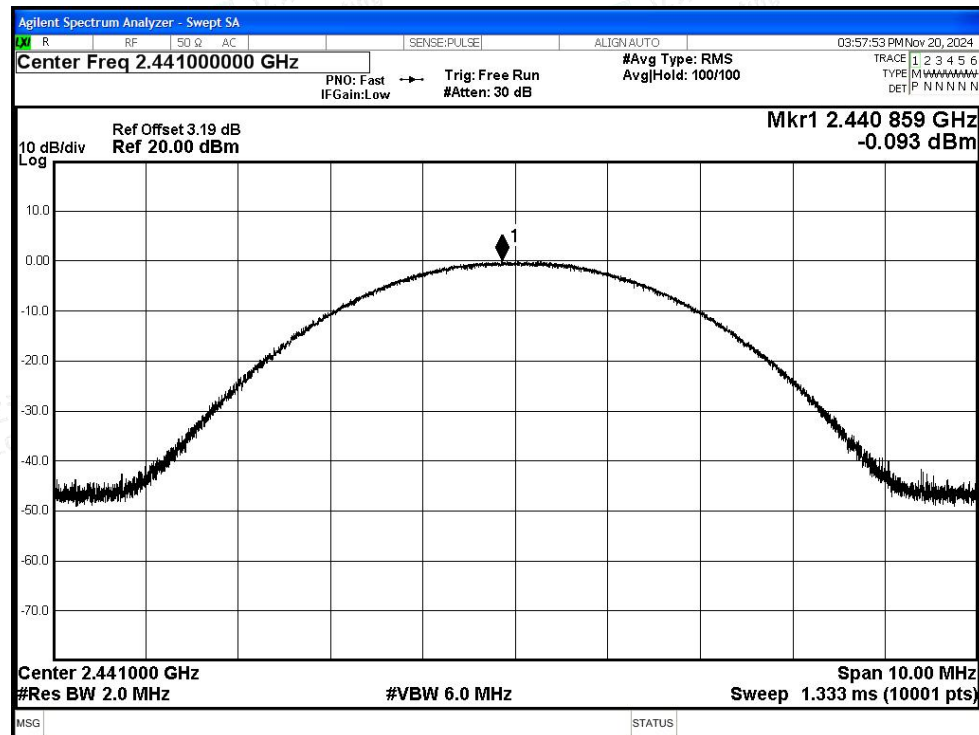


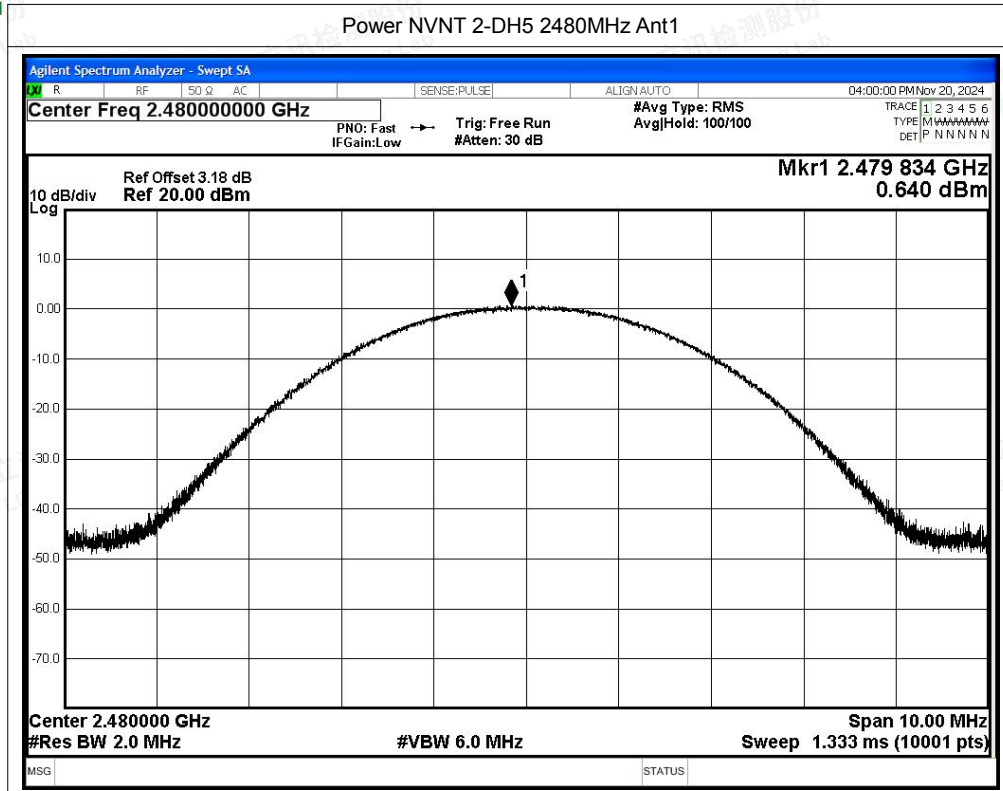
Test Graphs

Power NVNT 2-DH5 2402MHz Ant1



Power NVNT 2-DH5 2441MHz Ant1







A.3 Carrier Frequencies Separation

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	2-DH5	Ant1	2402.026	2403.036	1.01	0.887	Pass

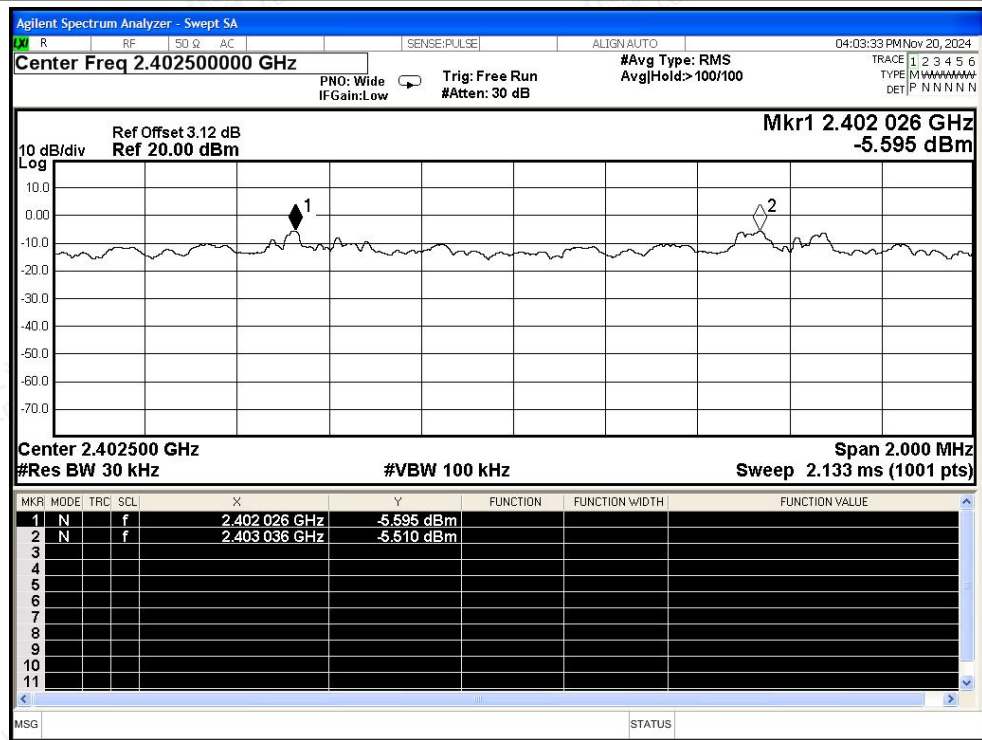


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Test Graphs

CFS NVNT 2-DH5 2402MHz Ant1



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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	278.208	96	31600	400	Pass

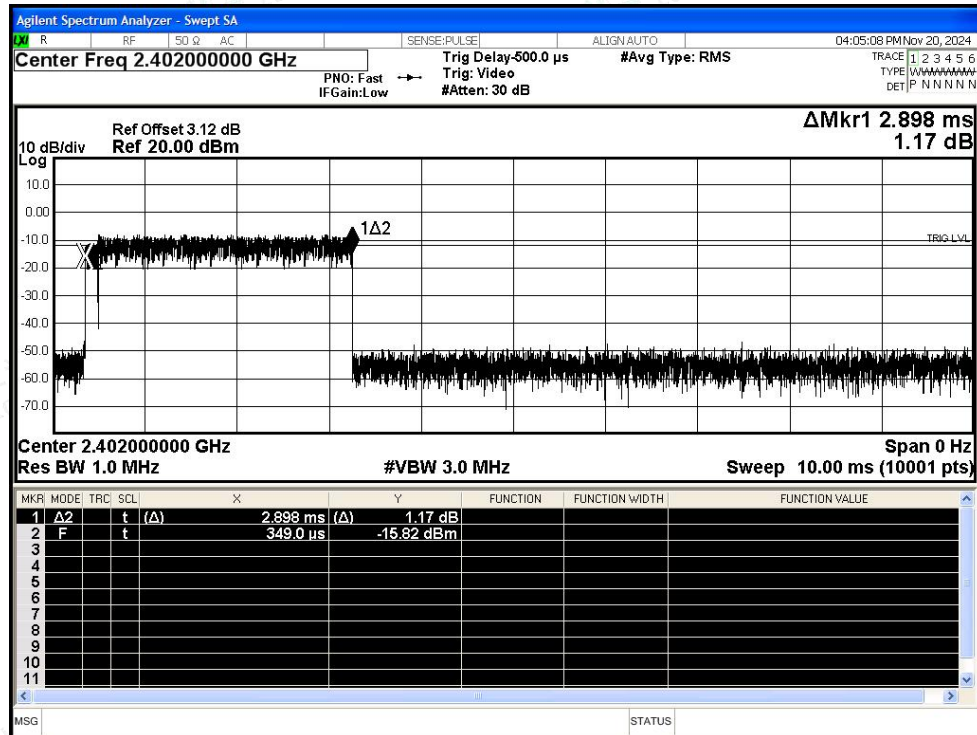


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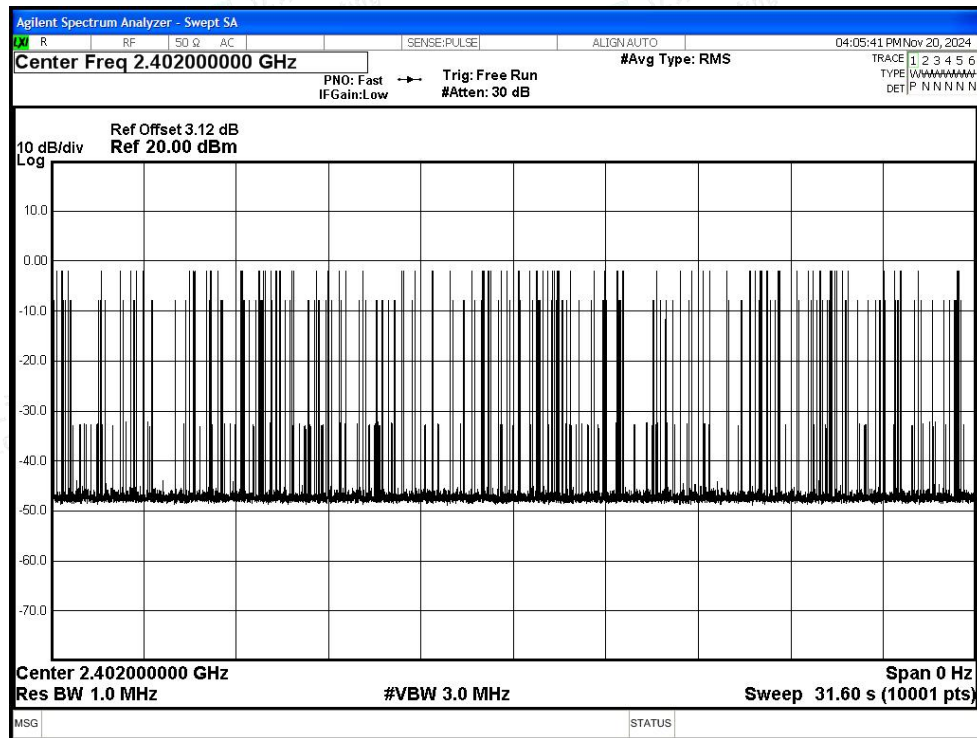


Test Graphs

Dwell NVNT 2-DH5 2402MHz Ant1 One Burst



Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated





A.5 Number of Hopping Channel

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

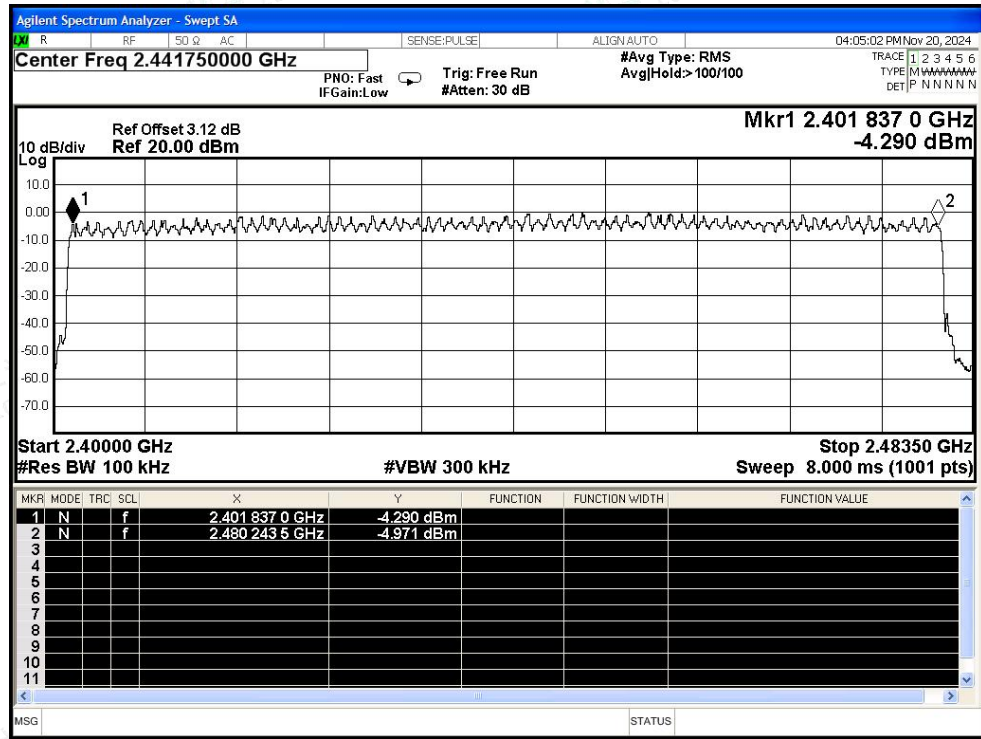


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Test Graphs

Hopping No. NVNT 2-DH5 2402MHz Ant1





A.6 Band Edge

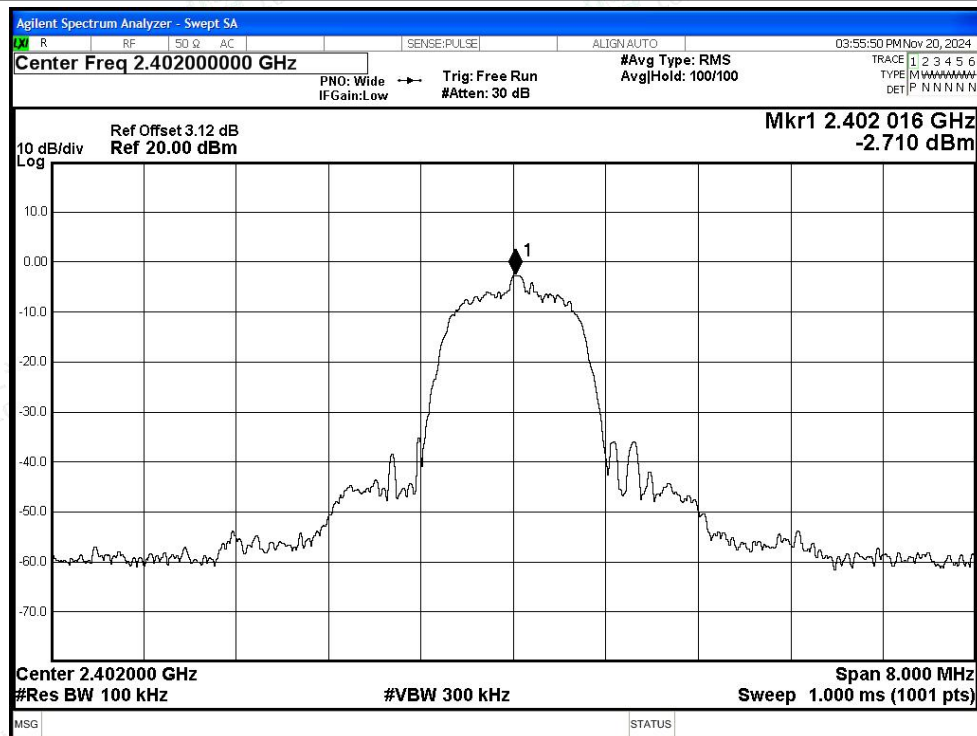
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	2-DH5	2402	Ant1	No-Hopping	-49.61	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-53.94	-20	Pass



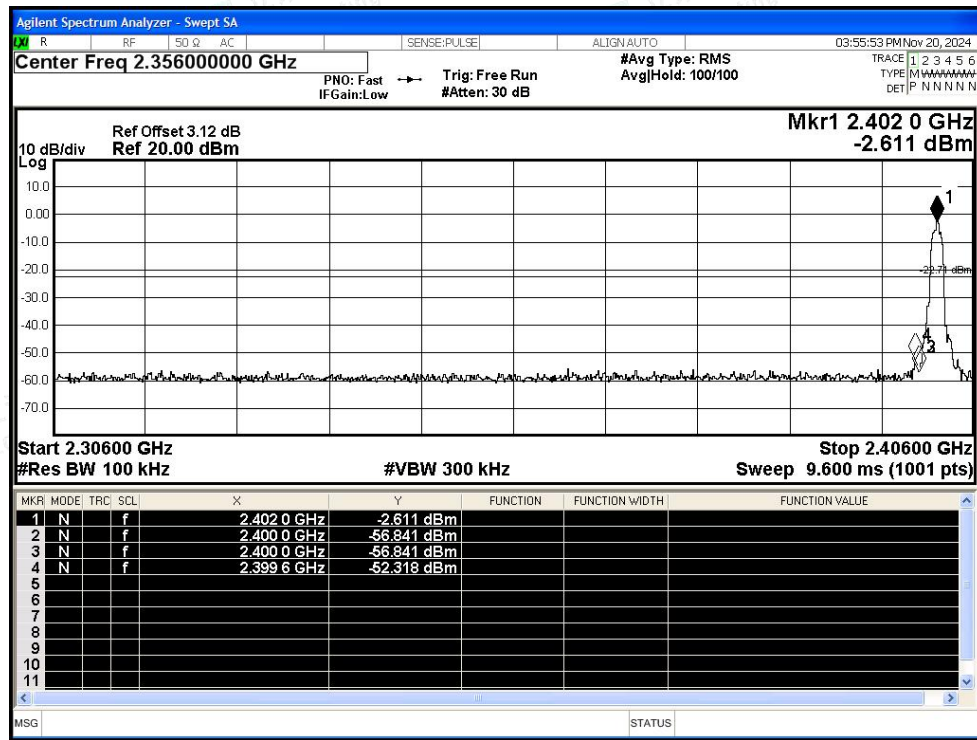


Test Graphs

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



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



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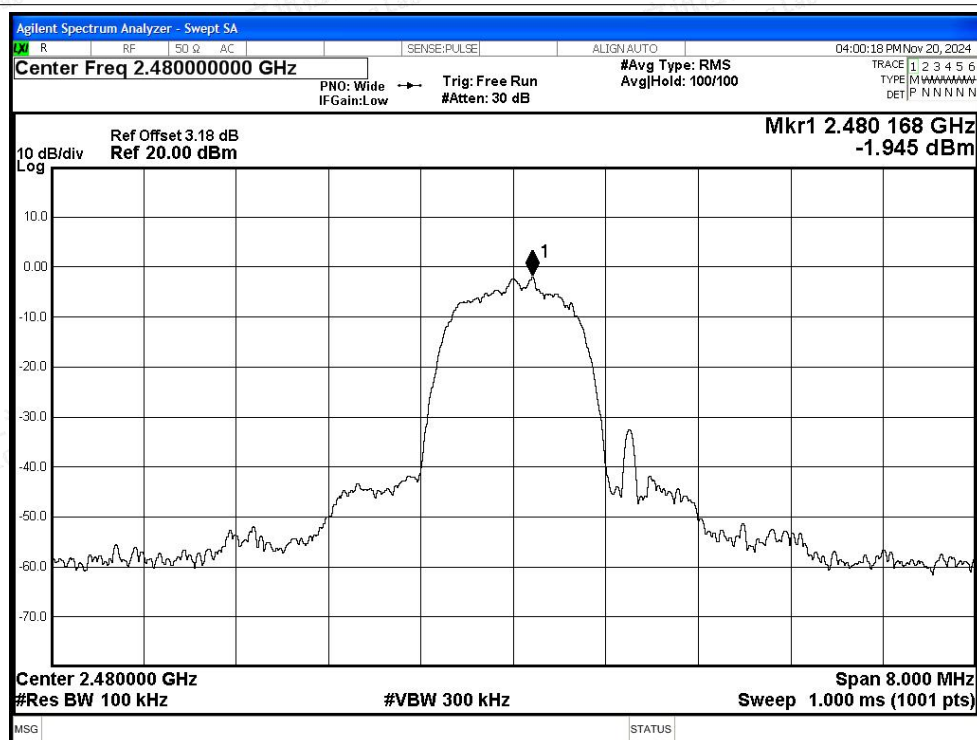
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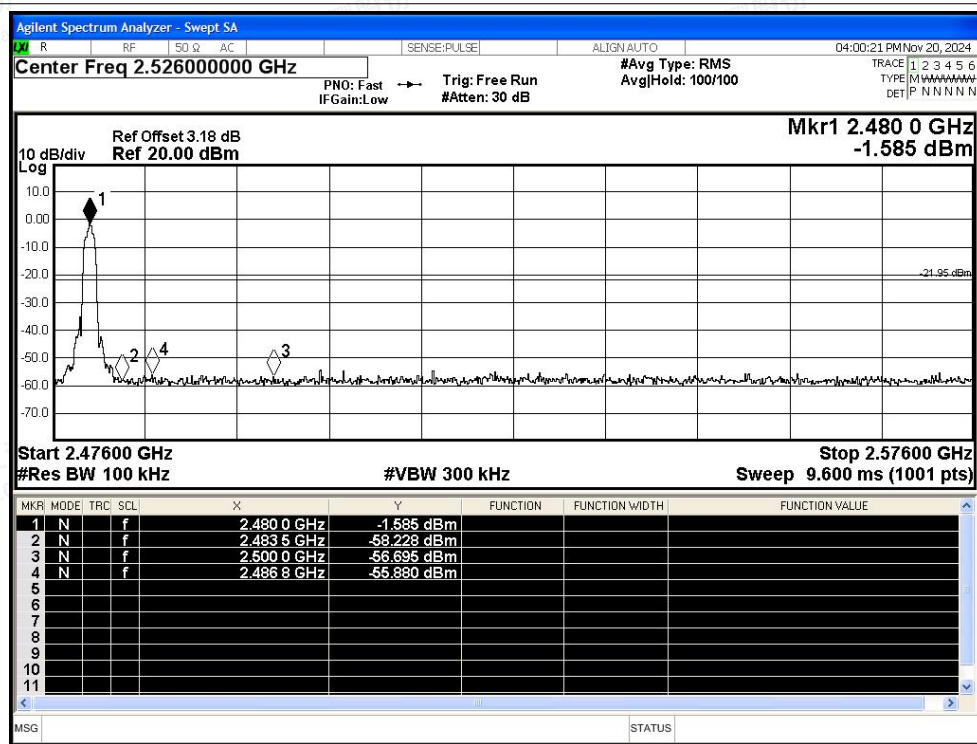
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Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref



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



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**(Hopping)**

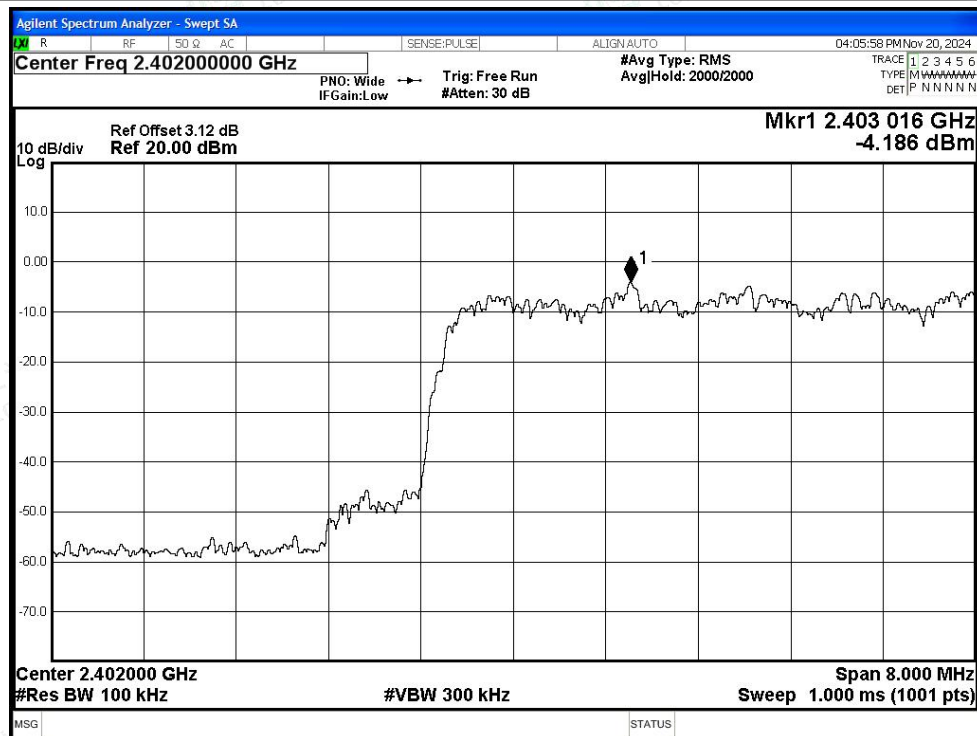
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	2-DH5	2402	Ant1	Hopping	-50.37	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-53.89	-20	Pass



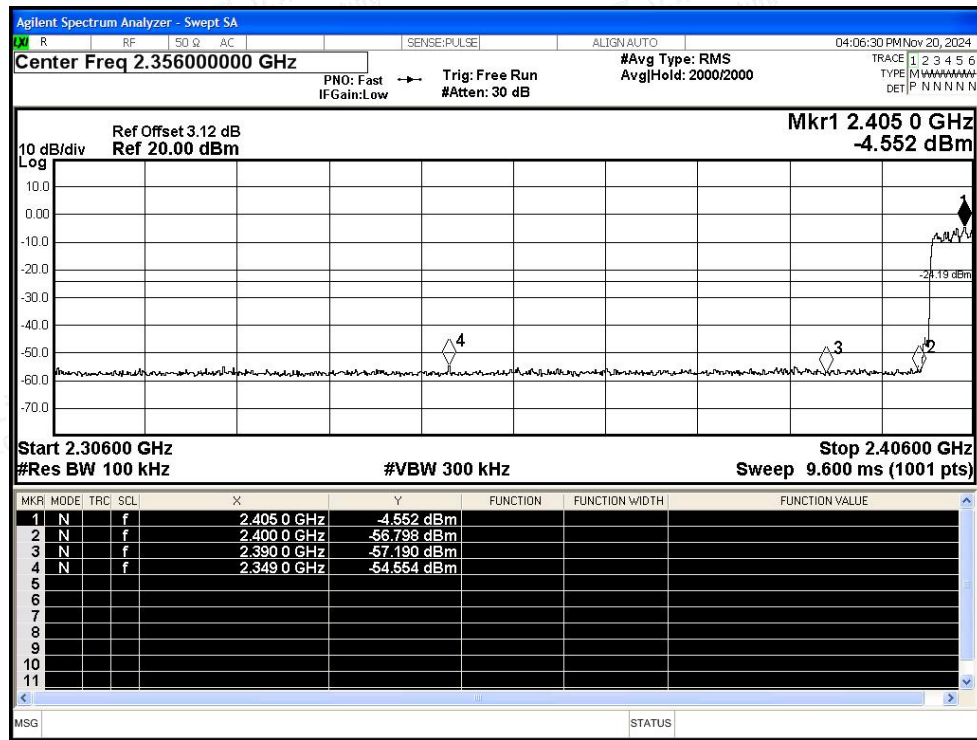


Test Graphs

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



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



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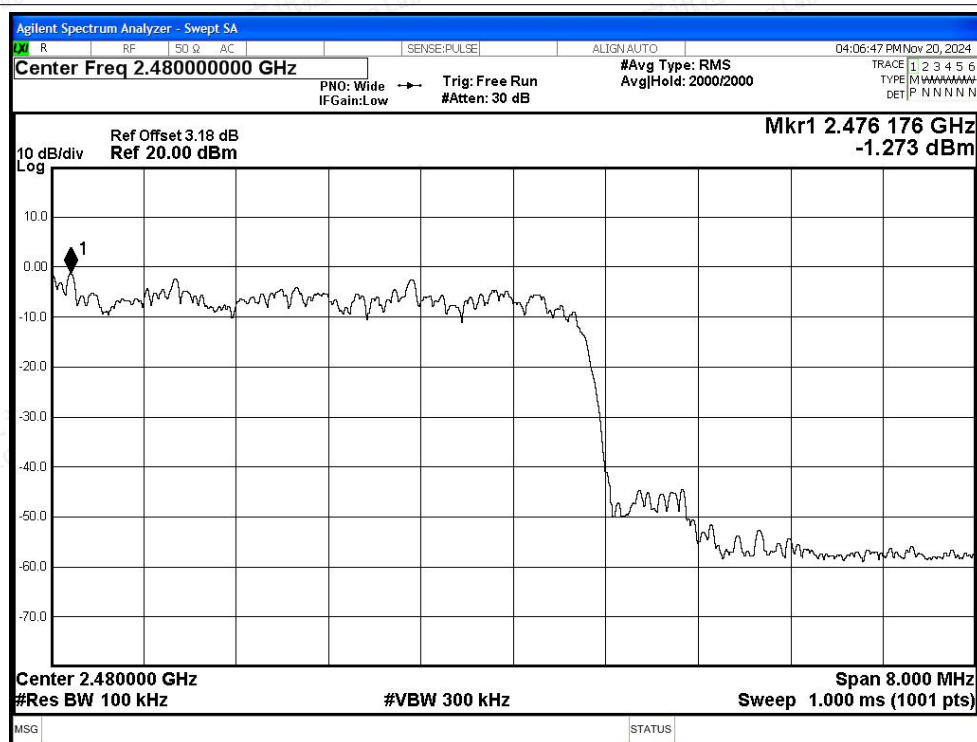
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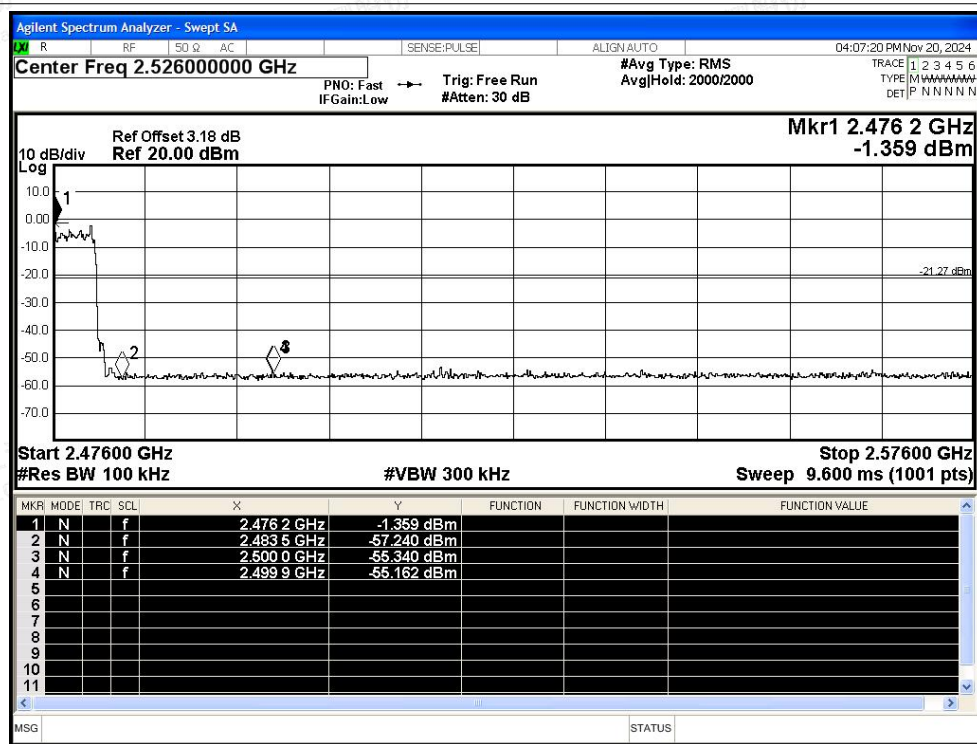
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Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Ref



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	-51.2	-20	Pass
NVNT	2-DH5	2441	Ant1	-51.63	-20	Pass
NVNT	2-DH5	2480	Ant1	-51.08	-20	Pass

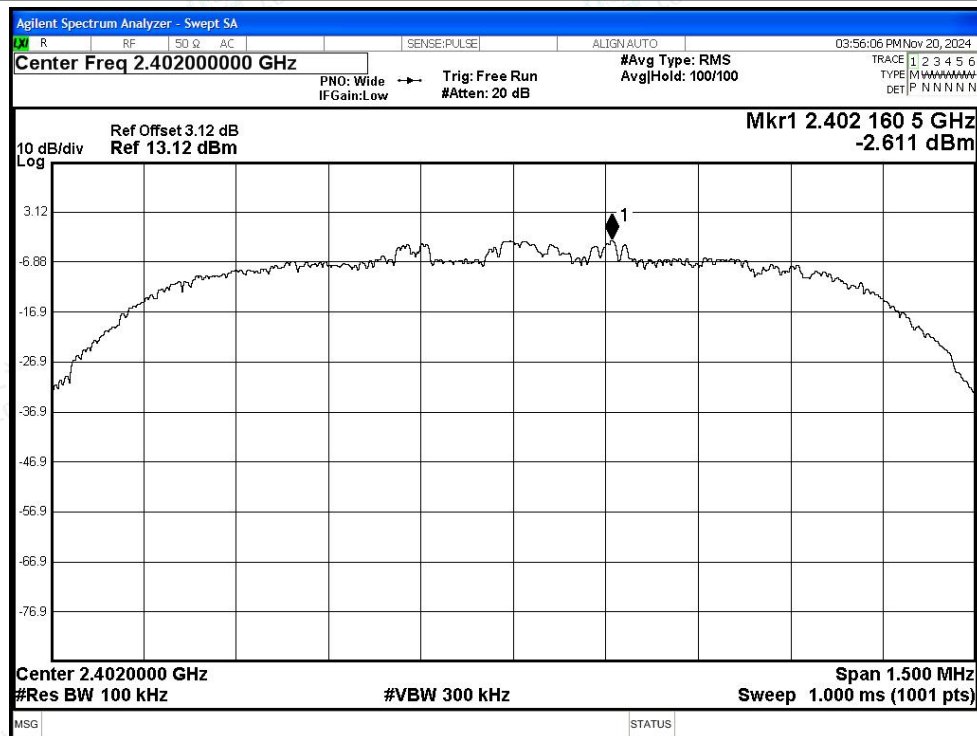


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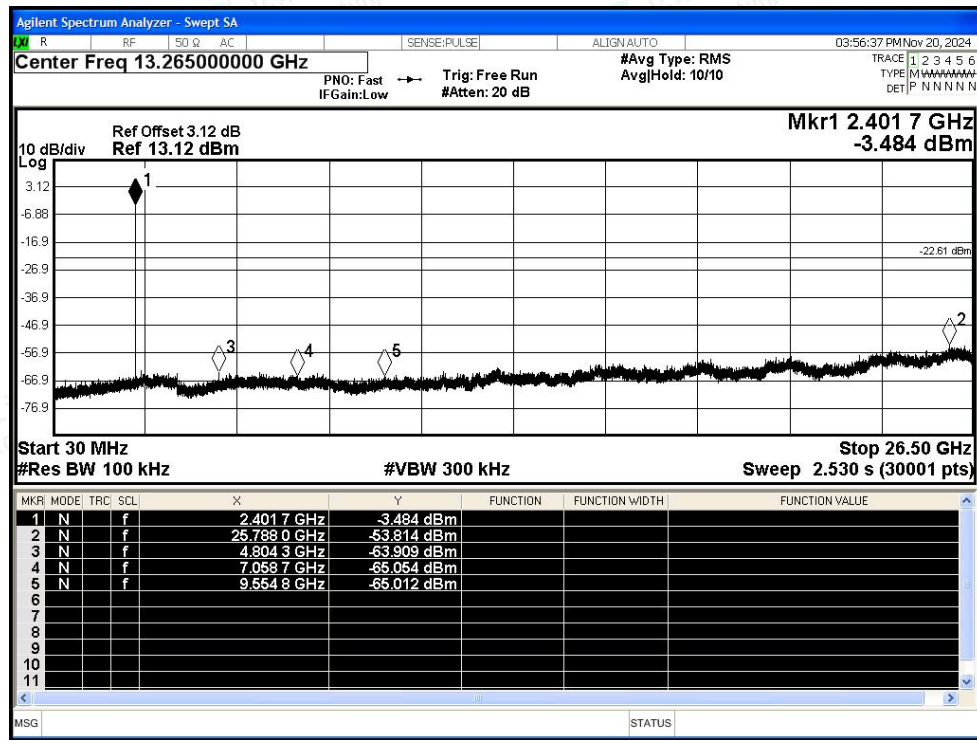


Test Graphs

Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref

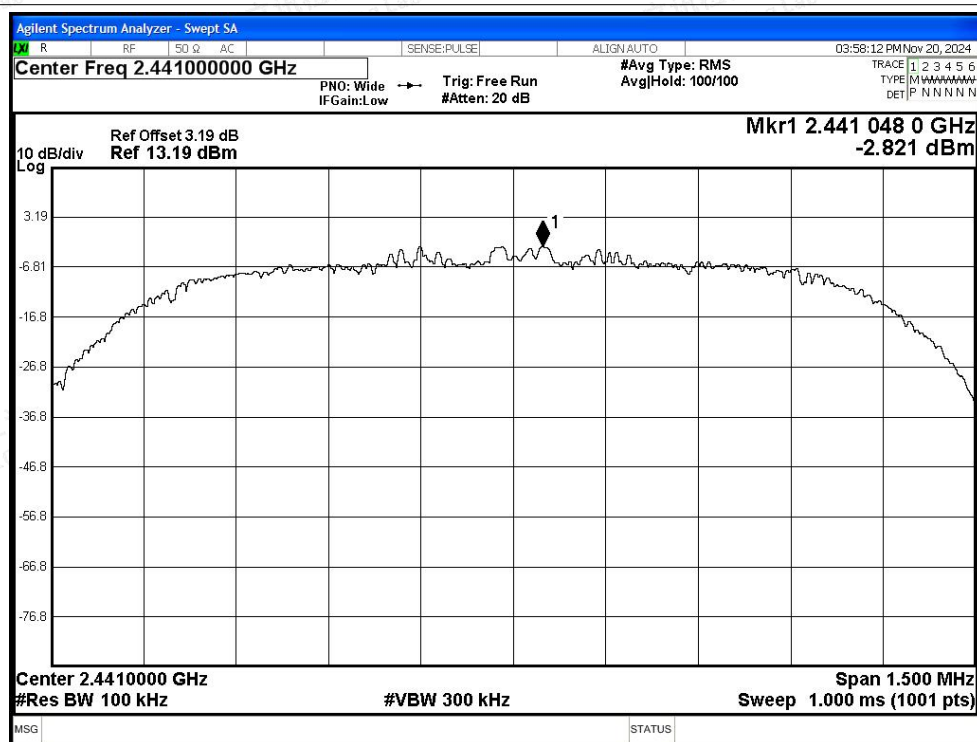


Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission

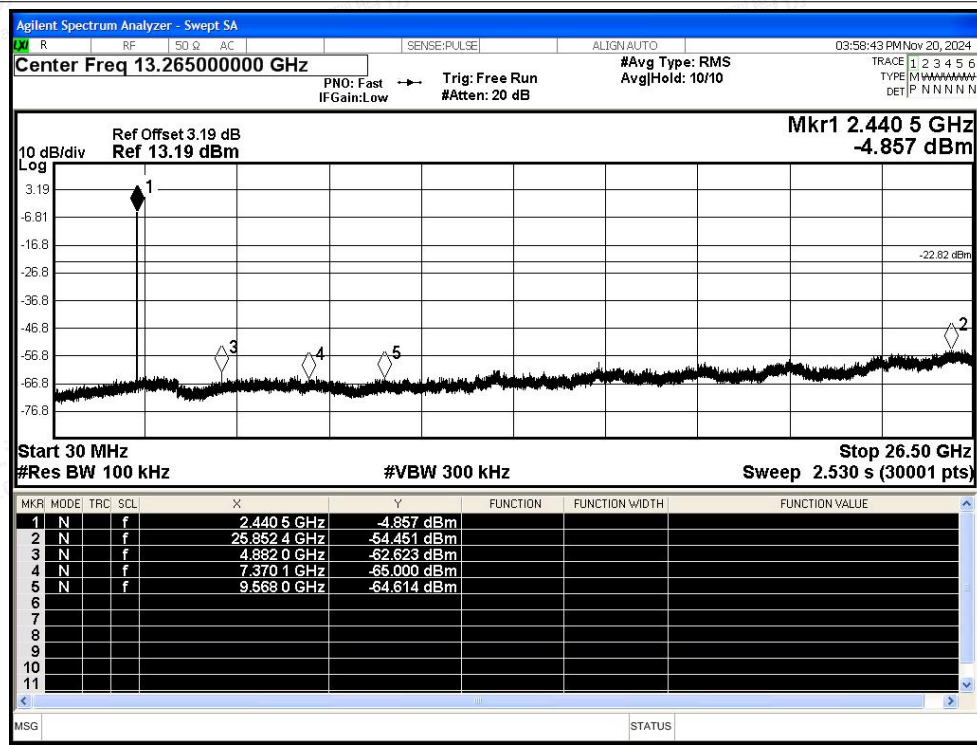




Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission



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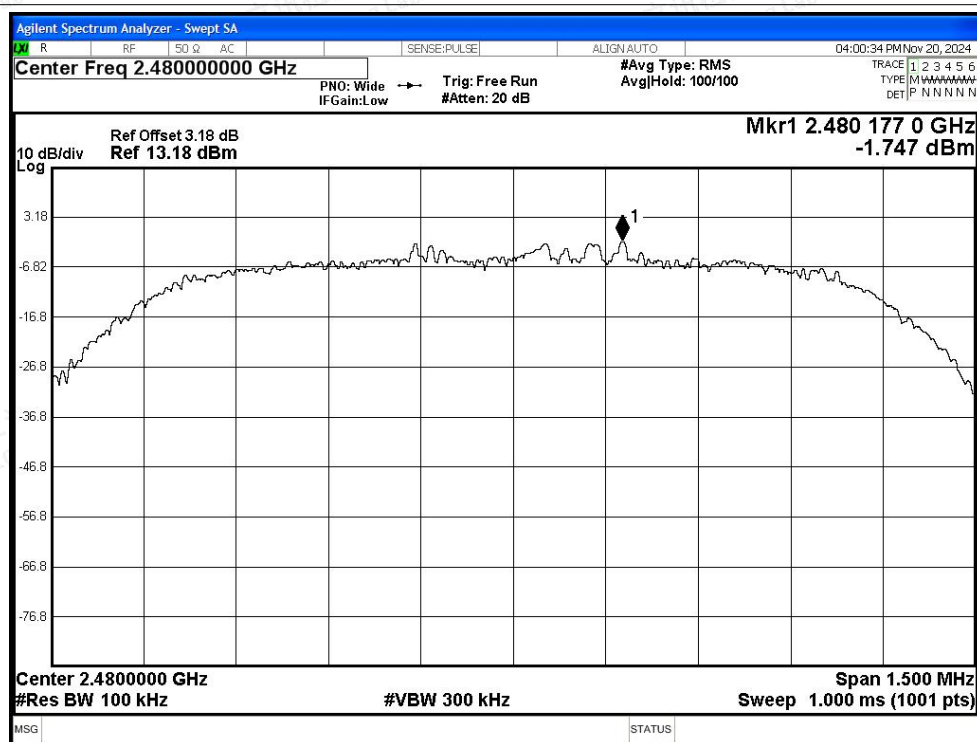
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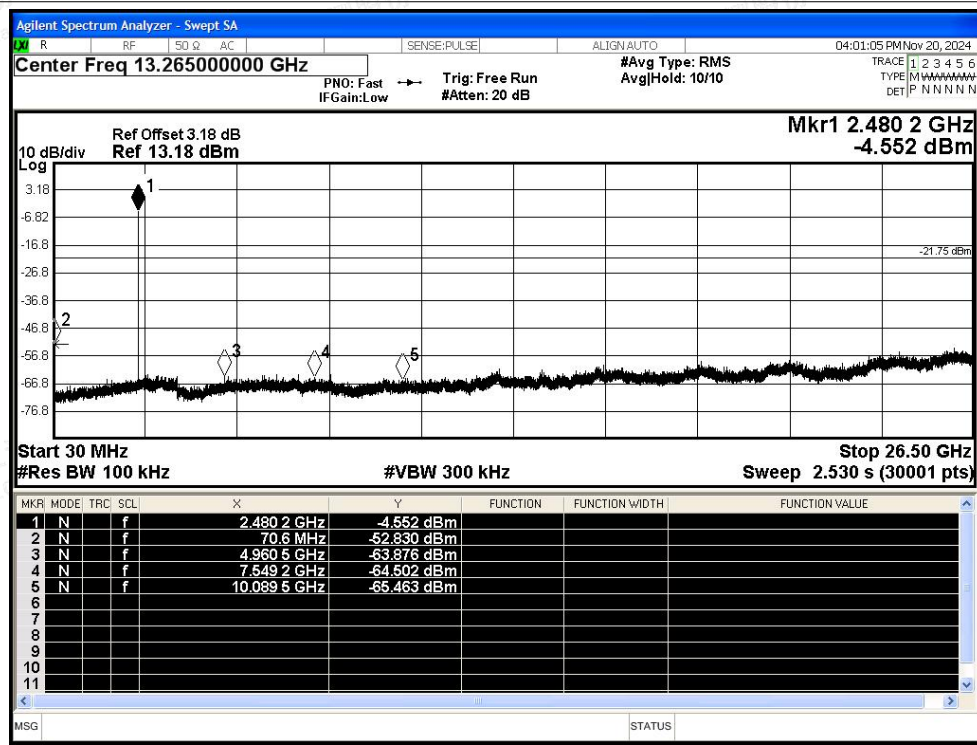
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Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Emission



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A.8 Duty Cycle

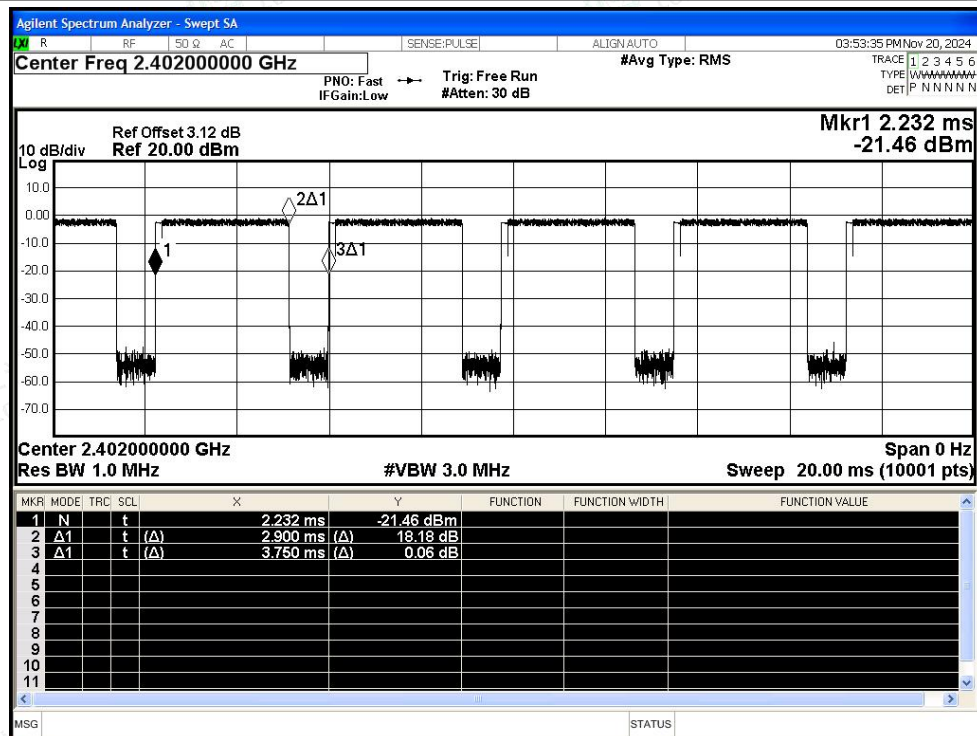
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	2-DH5	2402	Ant1	77.33	1.12	0.34
NVNT	2-DH5	2441	Ant1	77.33	1.12	0.34
NVNT	2-DH5	2480	Ant1	77.33	1.12	0.34



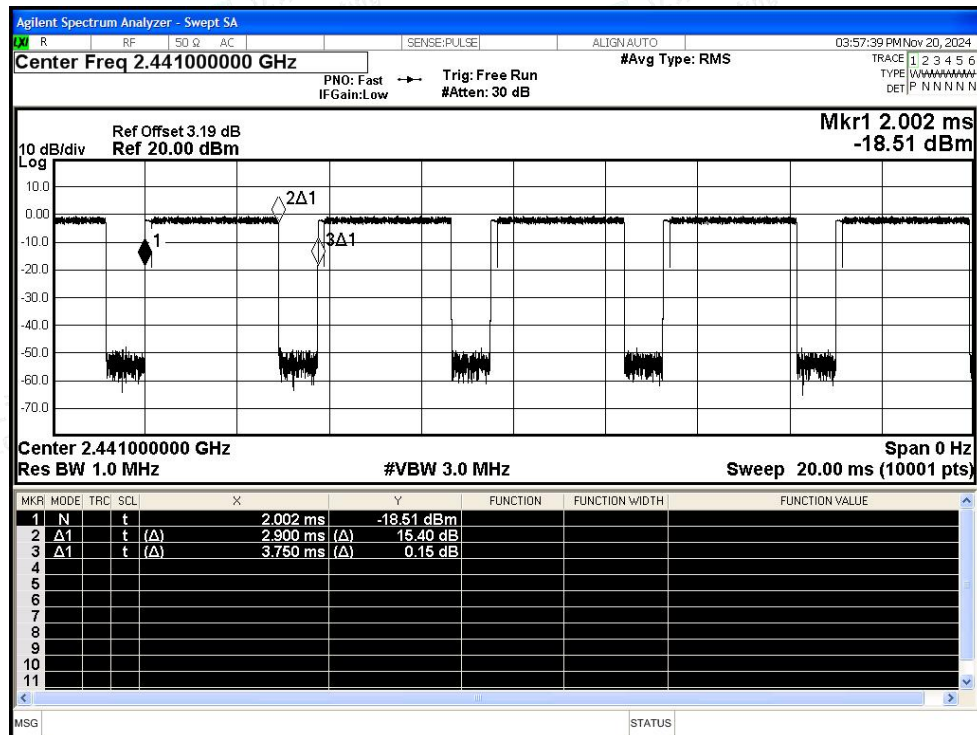


Test Graphs

Duty Cycle NVNT 2-DH5 2402MHz Ant1



Duty Cycle NVNT 2-DH5 2441MHz Ant1



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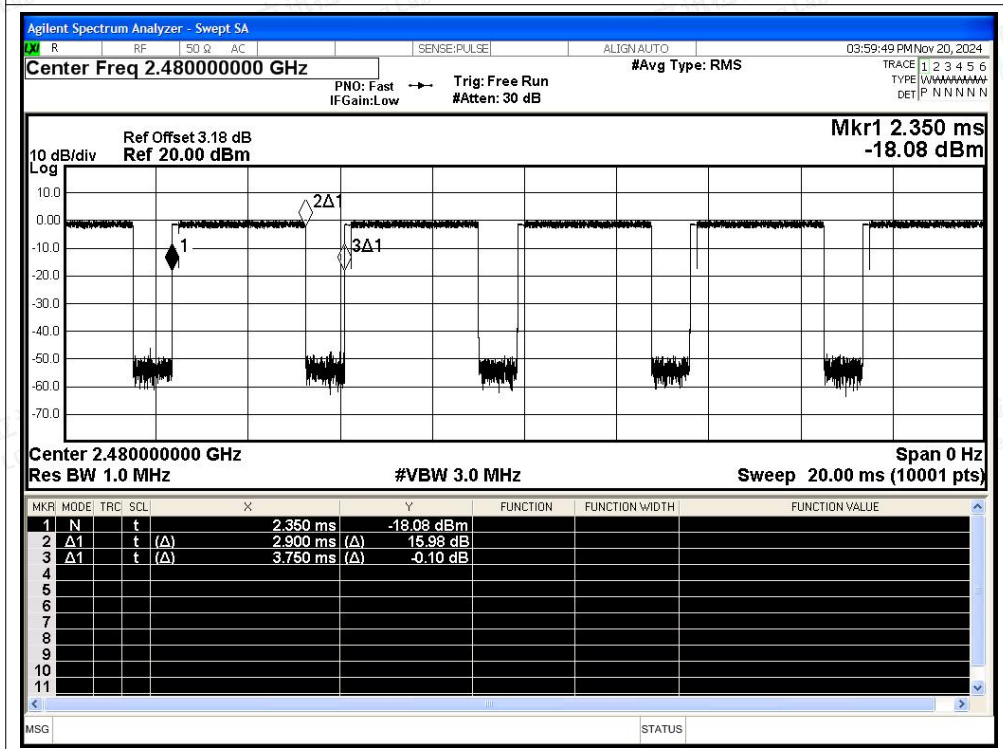
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Duty Cycle NVNT 2-DH5 2480MHz Ant1



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A.9 Restrict Band

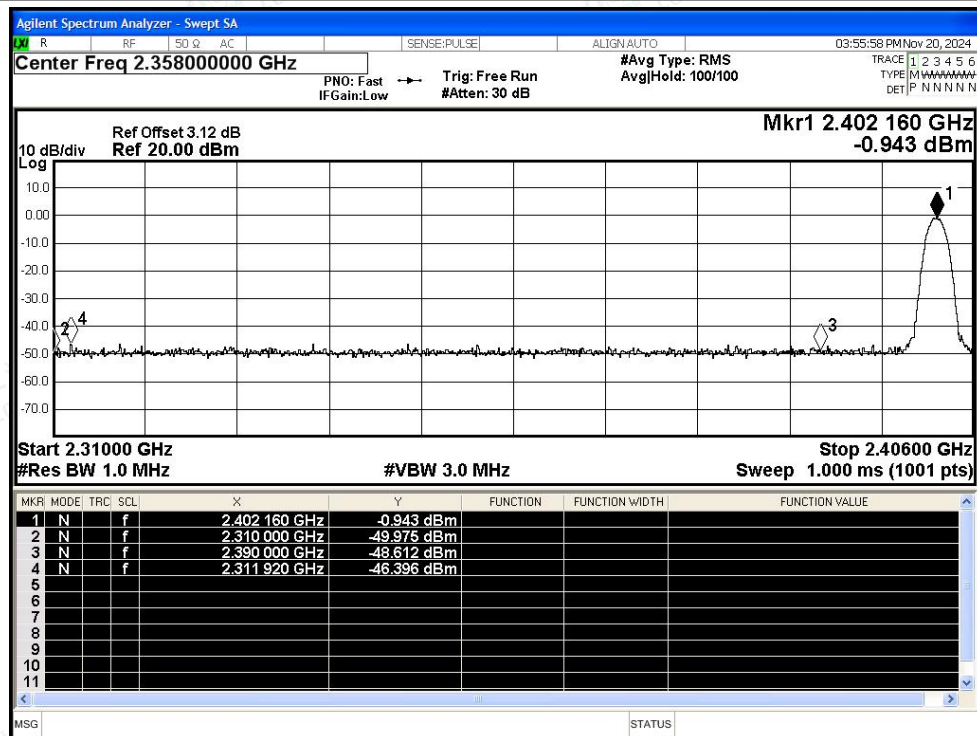
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-49.98	2	-	47.28	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-58.04	2	1.12	40.34	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2311.92	-46.4	2	-	50.86	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2372.688	-56.61	2	1.12	41.77	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-48.61	2	-	48.65	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-57.23	2	1.12	41.15	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-48.61	2	-	48.65	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-56.43	2	1.12	41.95	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2486.632	-45.44	2	-	51.82	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2488.792	-56.01	2	1.12	42.37	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-47.98	2	-	49.28	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-56.97	2	1.12	41.41	Average	54	Pass



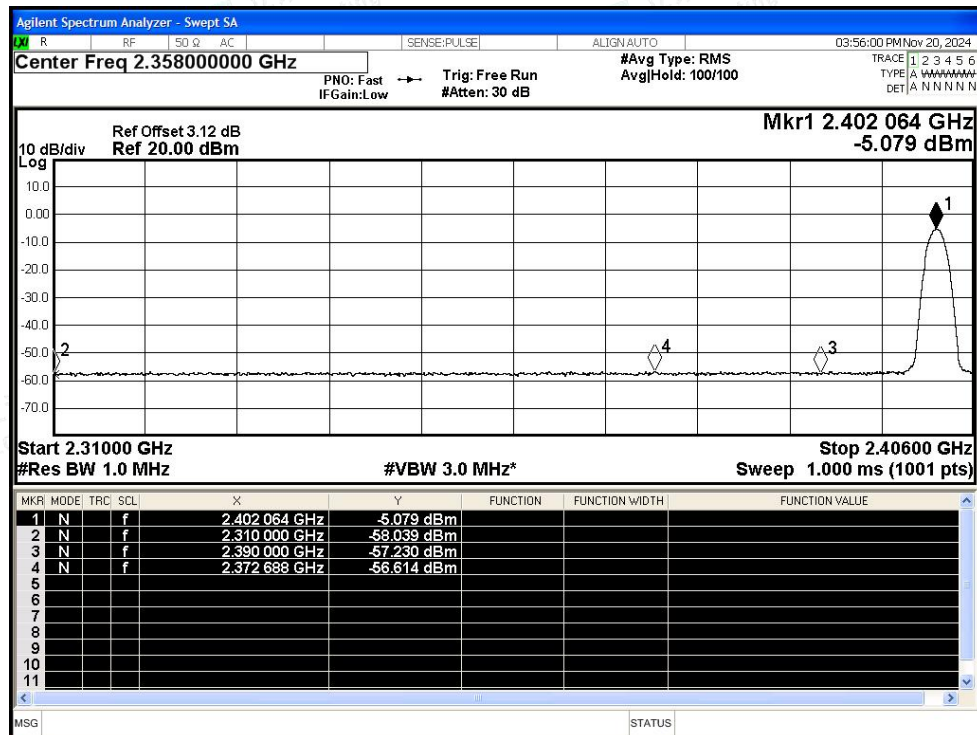


Test Graphs

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



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



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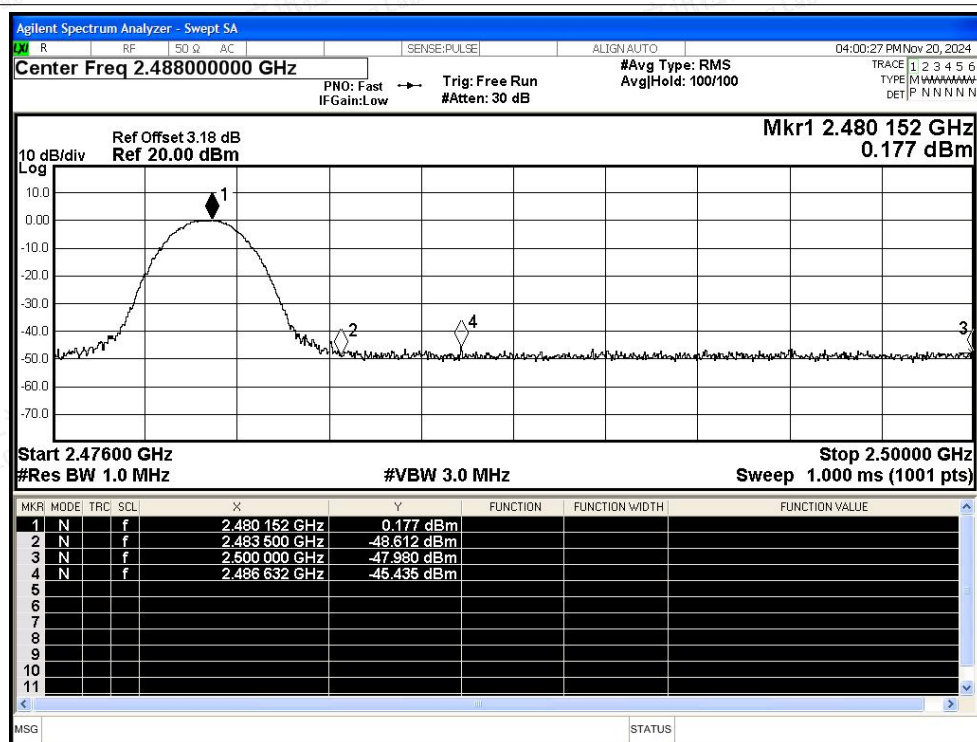
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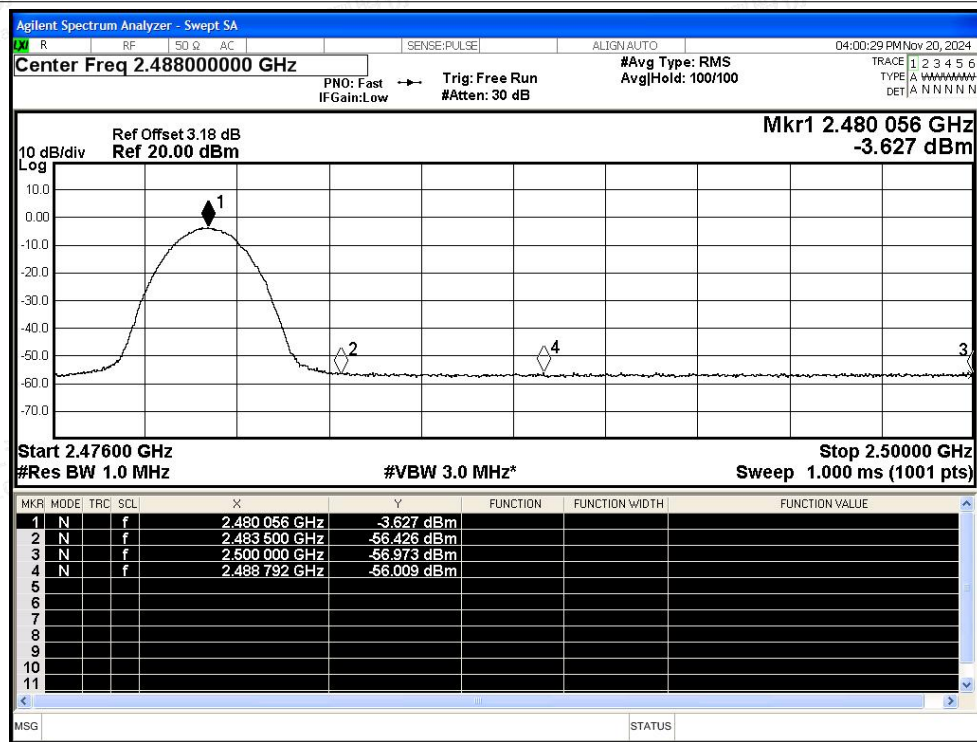
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Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Peak



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



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