



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Portable Party Speaker

Test Model: T502PRO

Environmental Conditions

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



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A.1 -20dB Bandwidth

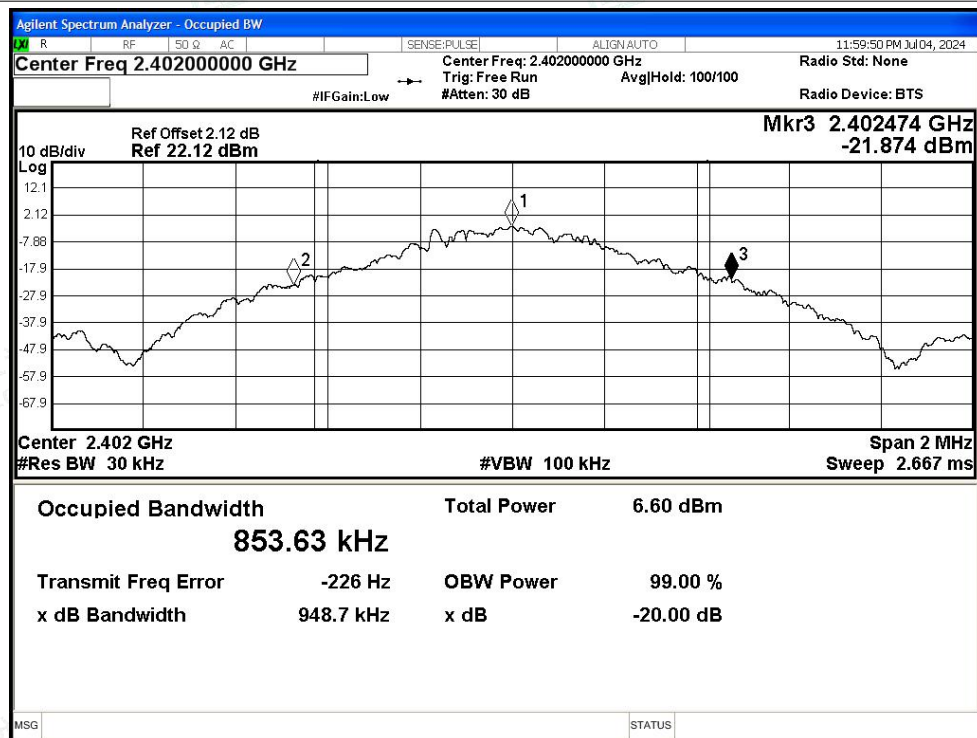
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	0.949	N/A	Pass
NVNT	1-DH5	2441	Ant1	0.925	N/A	Pass
NVNT	1-DH5	2480	Ant1	0.934	N/A	Pass





Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1



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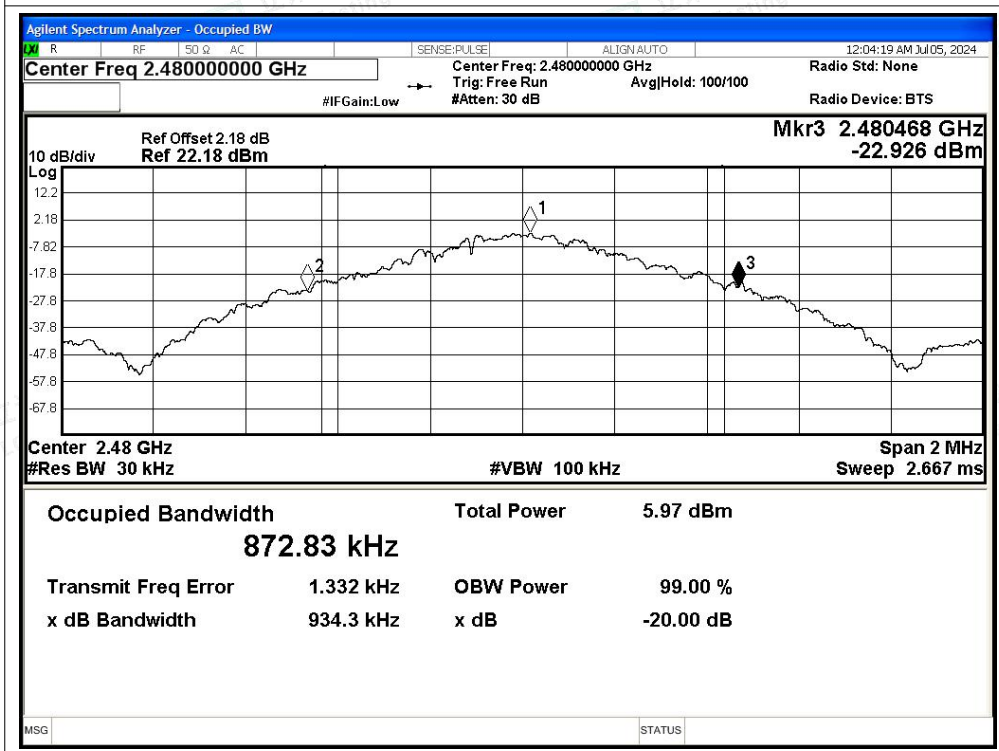
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-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1



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A.2 Maximum Conducted Output Power

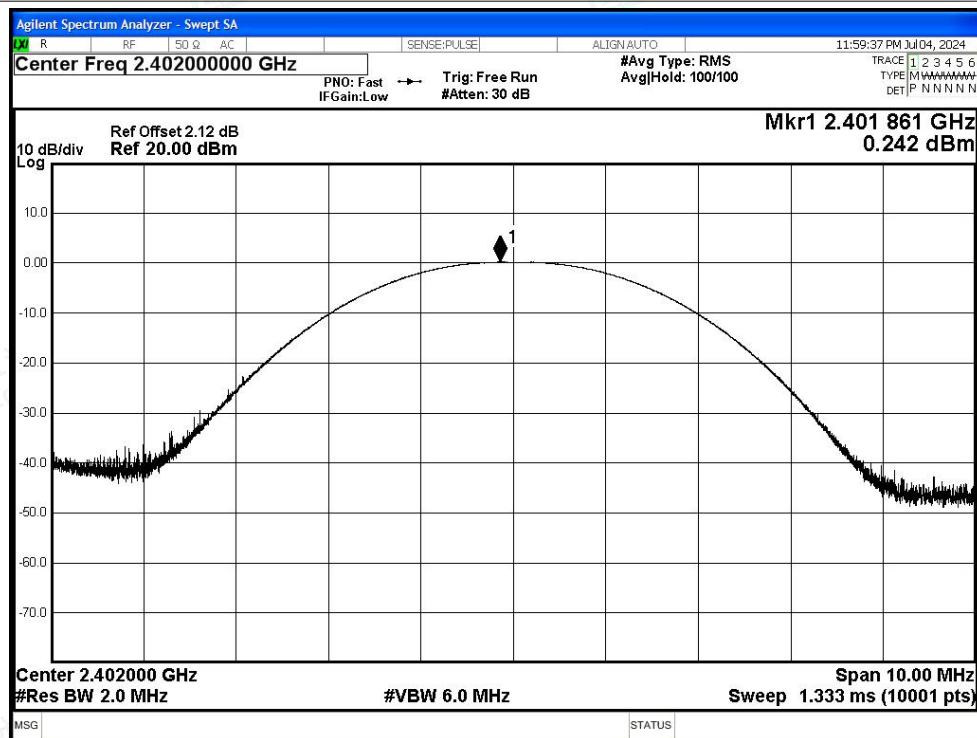
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	0.24	0	0.24	21	Pass
NVNT	1-DH5	2441	Ant1	0.21	0	0.21	21	Pass
NVNT	1-DH5	2480	Ant1	0.15	0	0.15	21	Pass



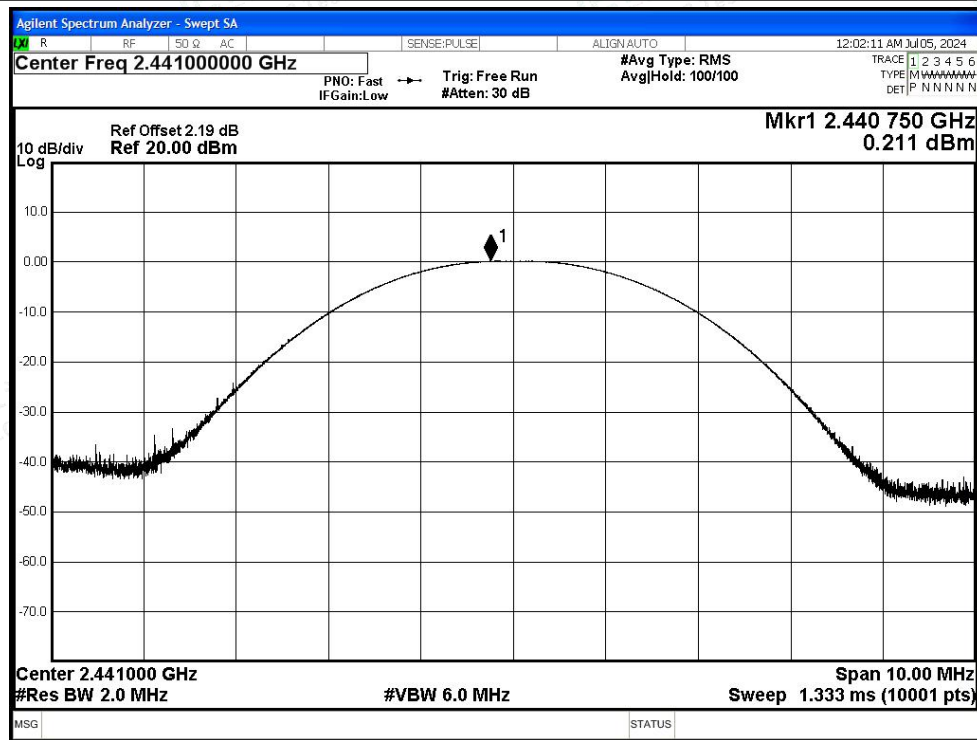


Test Graphs

Power NVNT 1-DH5 2402MHz Ant1



Power NVNT 1-DH5 2441MHz Ant1



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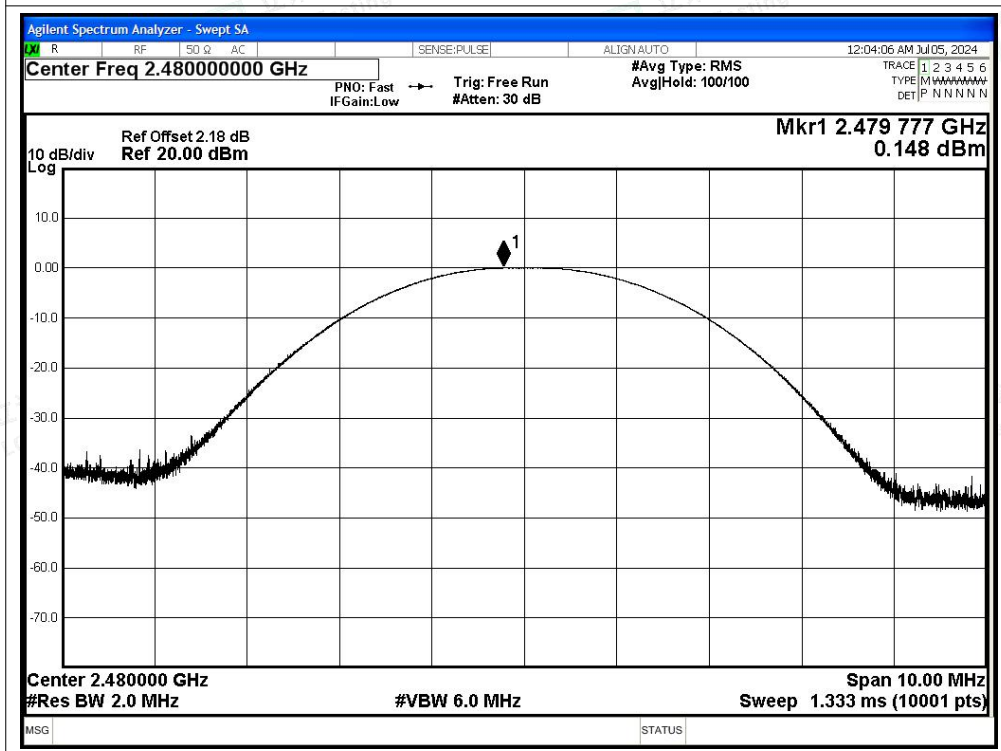
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Power NVNT 1-DH5 2480MHz Ant1



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A.3 Carrier Frequencies Separation

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2401.994	2403.014	1.02	0.633	Pass

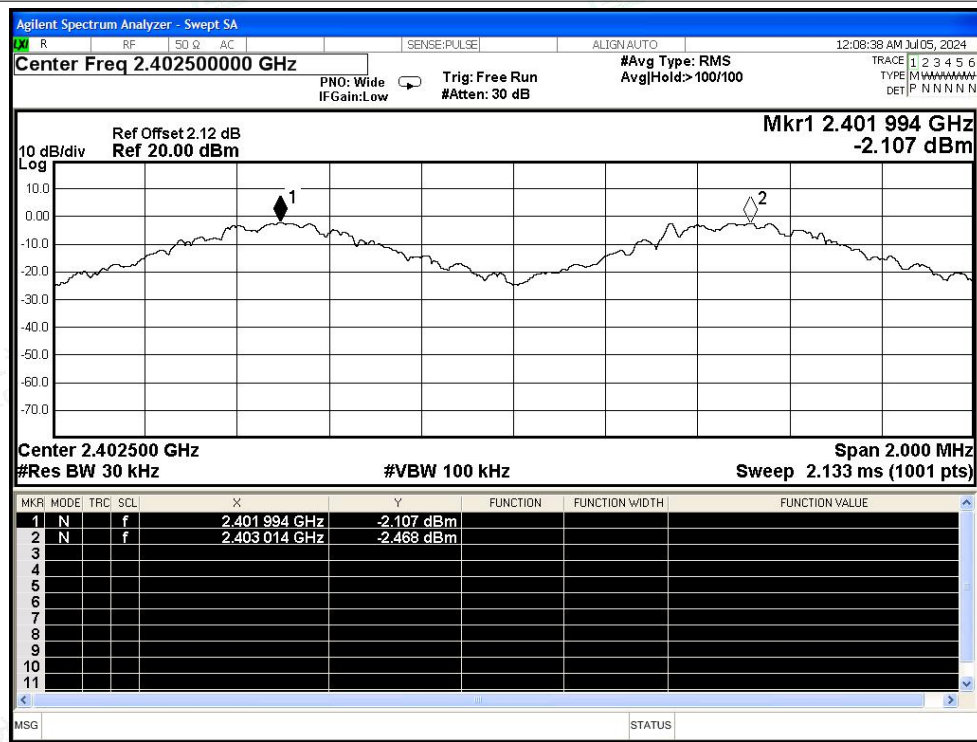


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Test Graphs

CFS NVNT 1-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	1-DH5	2402	Ant1	2.878	296.434	103	31600	400	Pass

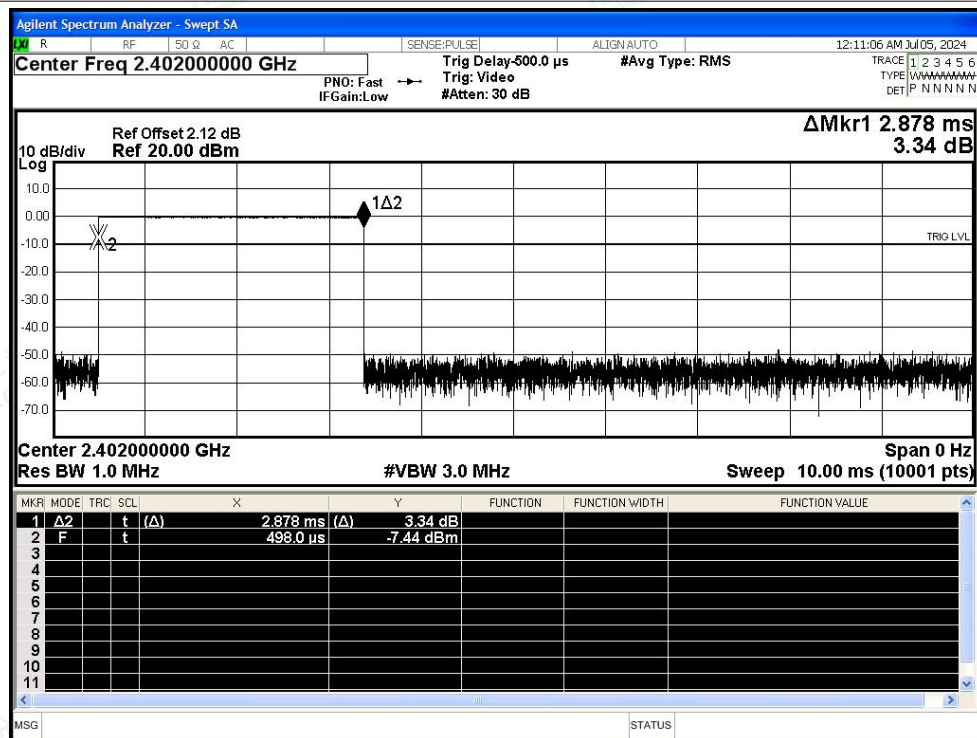


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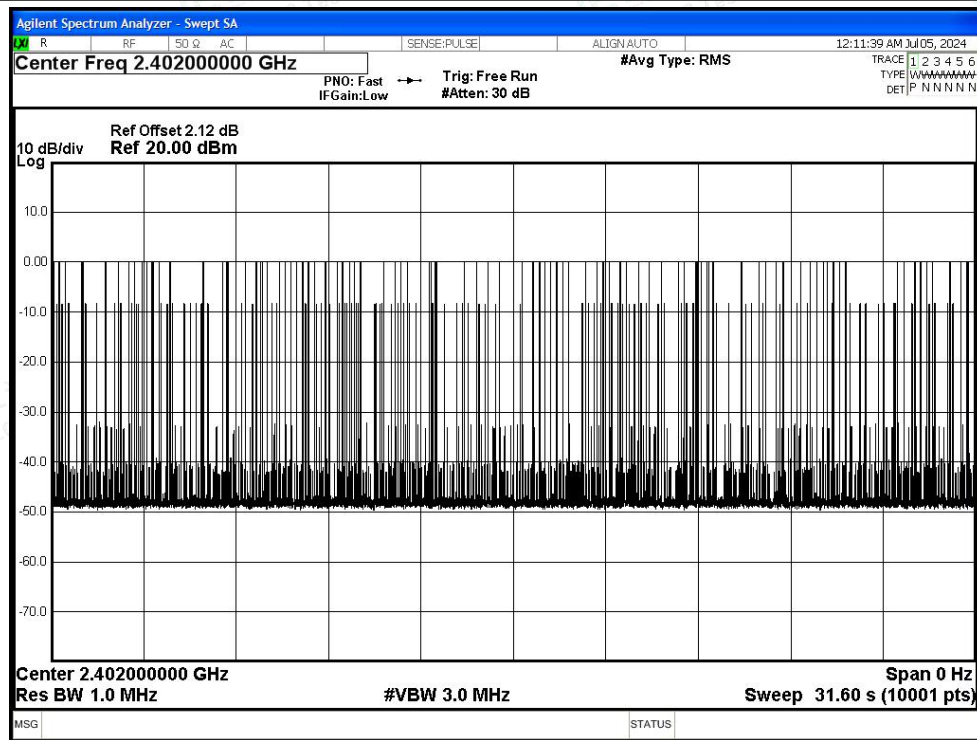


Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant1 One Burst



Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated



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A.5 Number of Hopping Channel

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

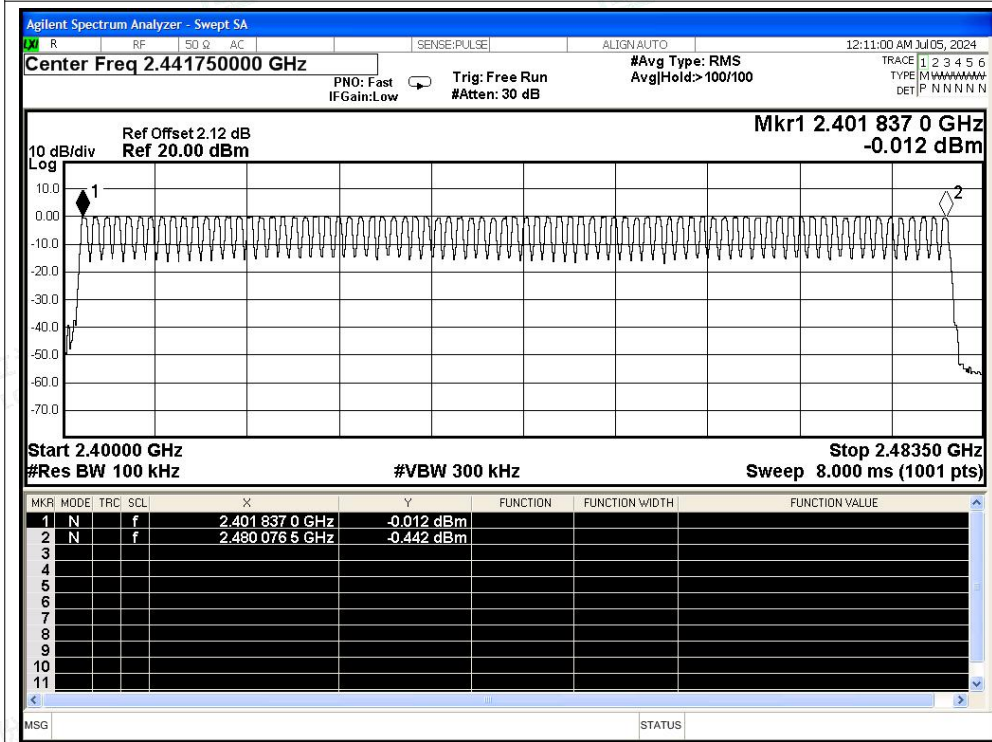


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Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant1



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A.6 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-43.2	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-55.75	-20	Pass

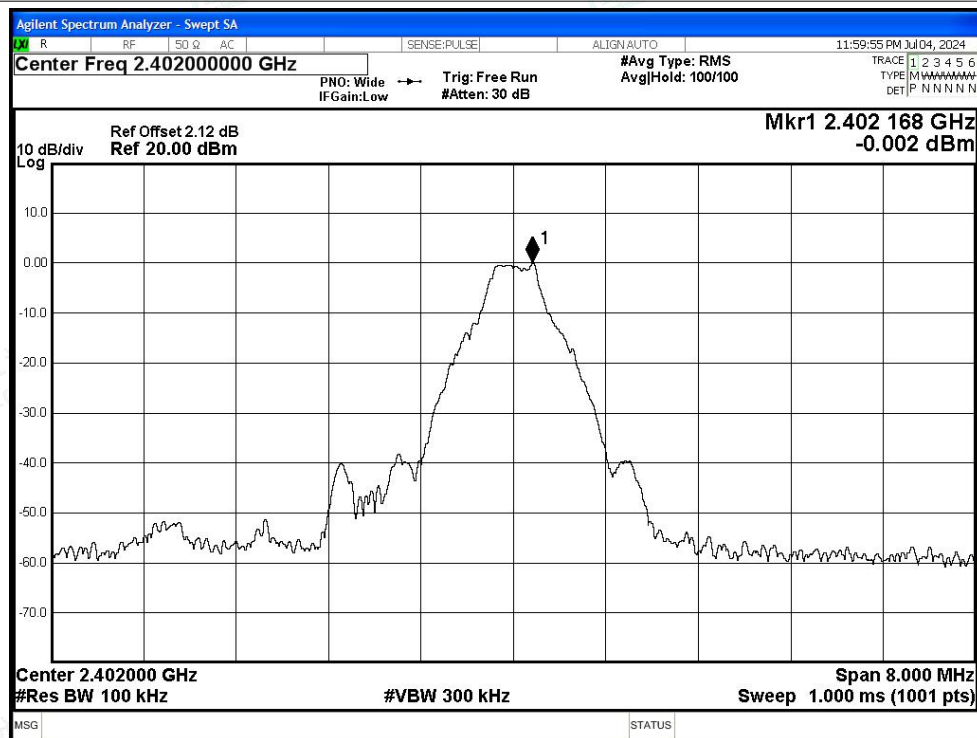


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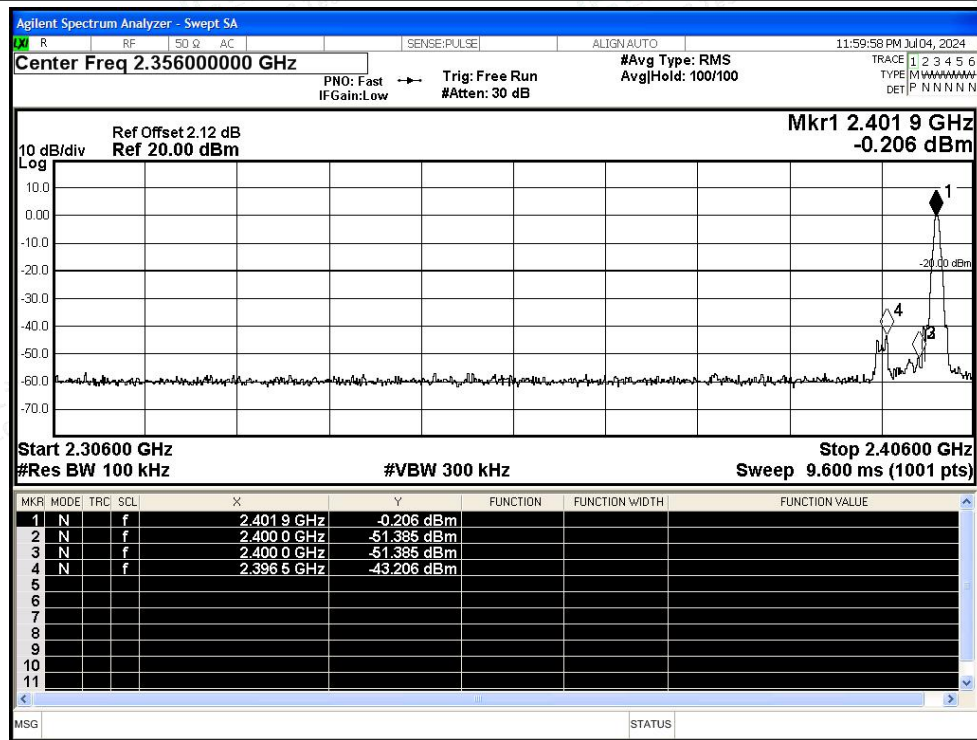


Test Graphs

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



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



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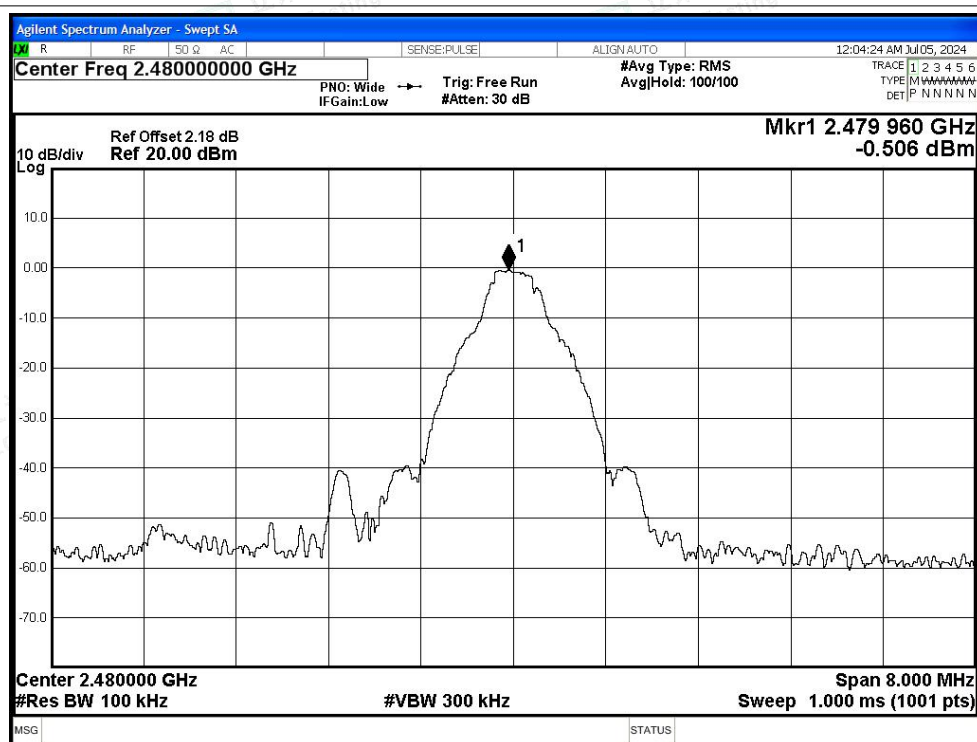
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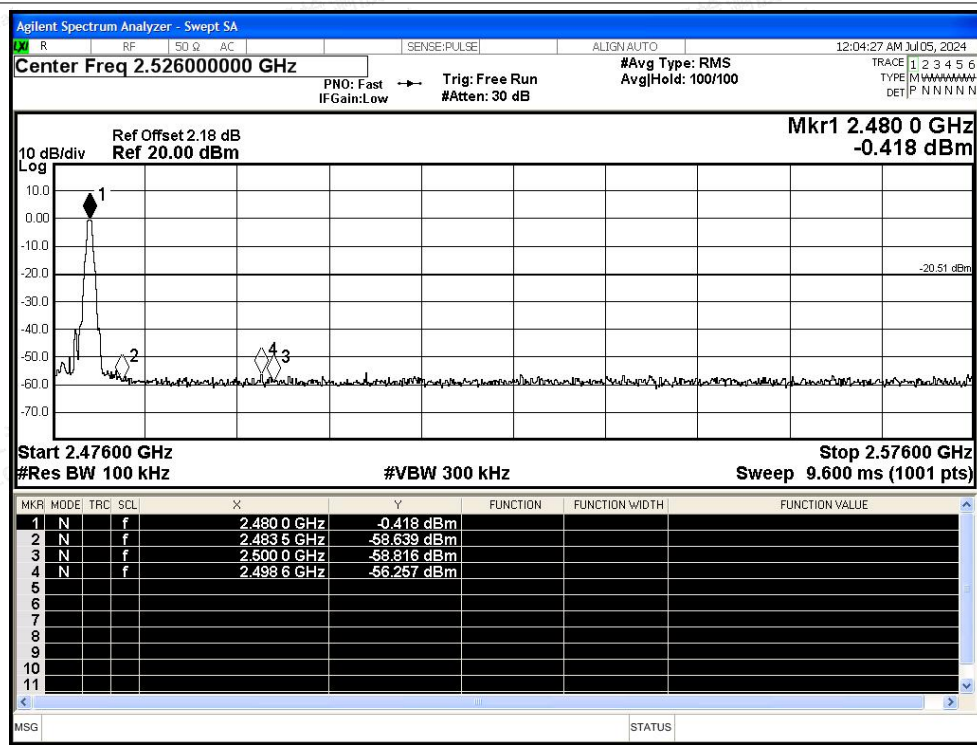
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Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref



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



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(Hopping)

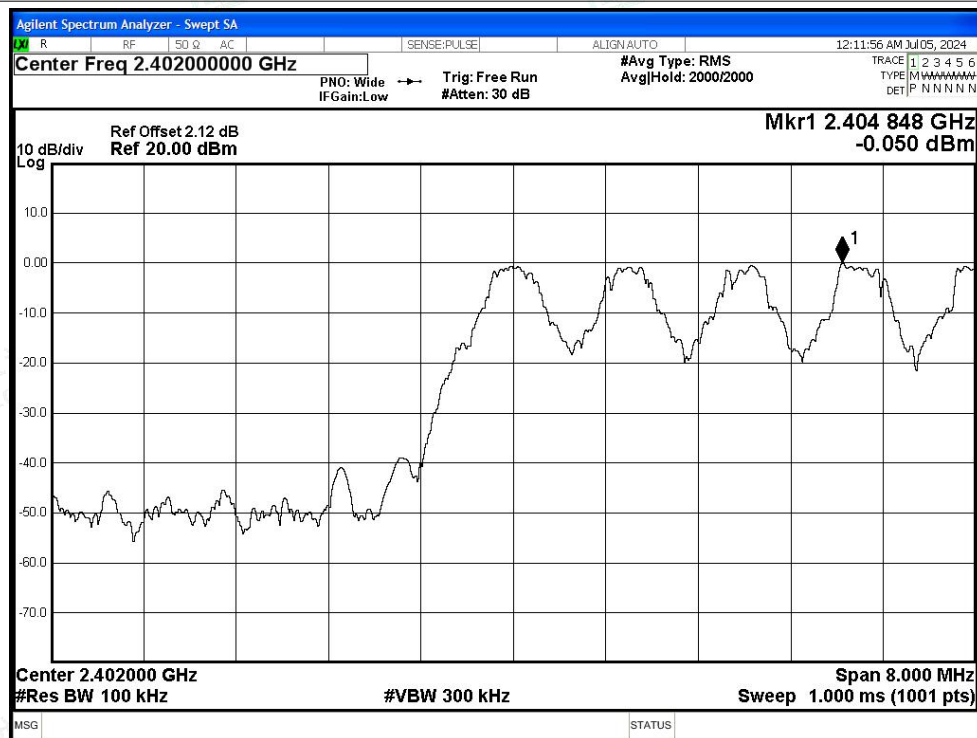
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-55.44	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-55.16	-20	Pass



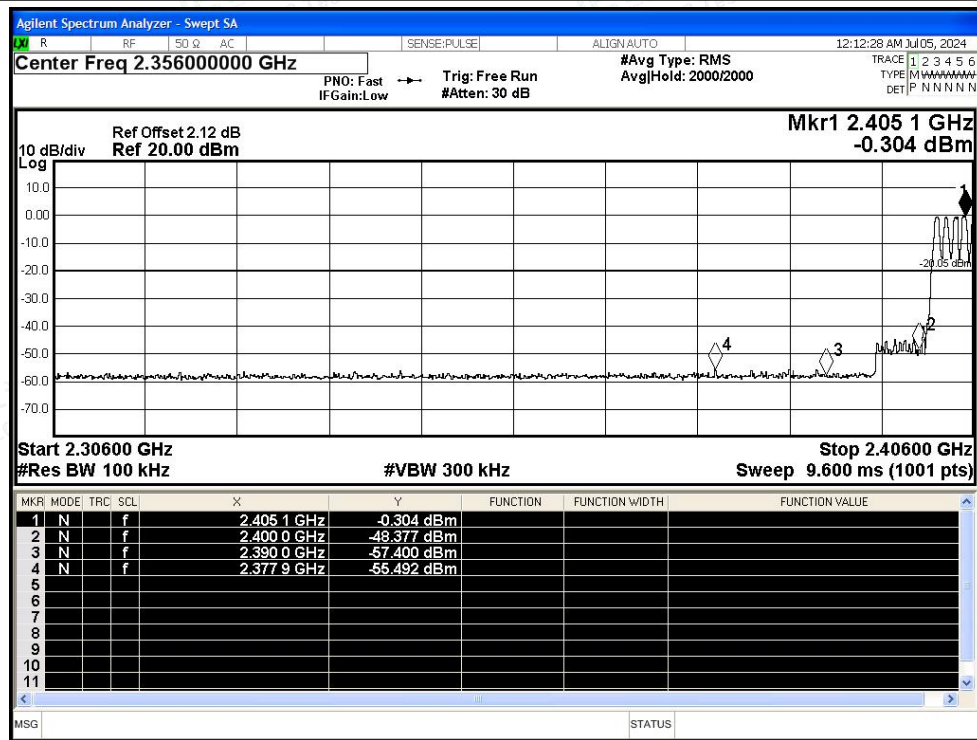


Test Graphs

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



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



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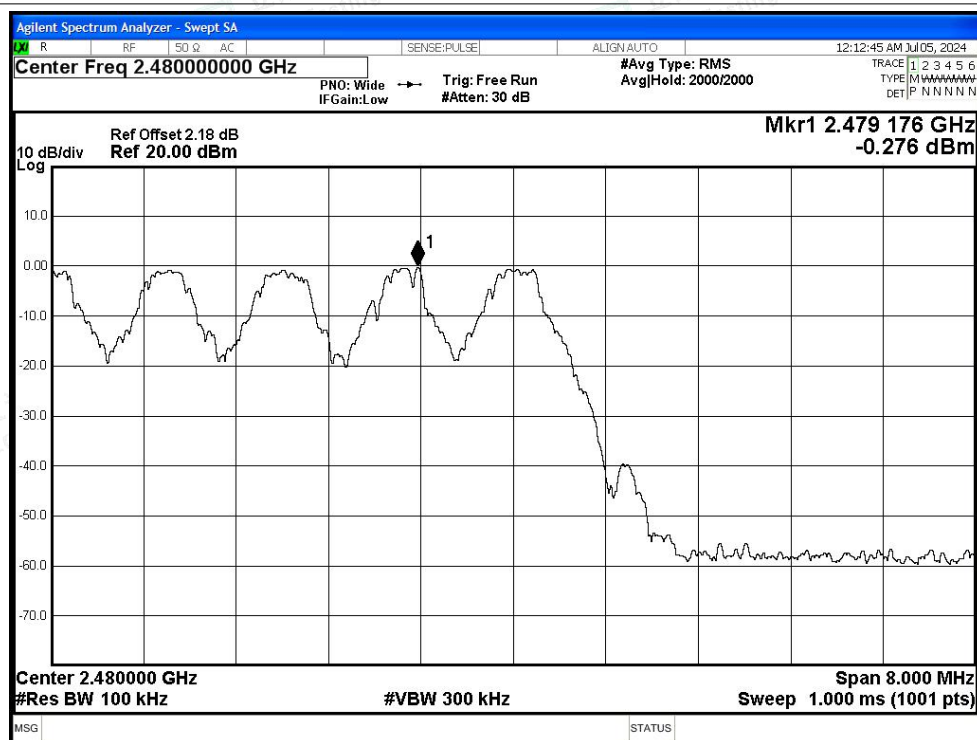
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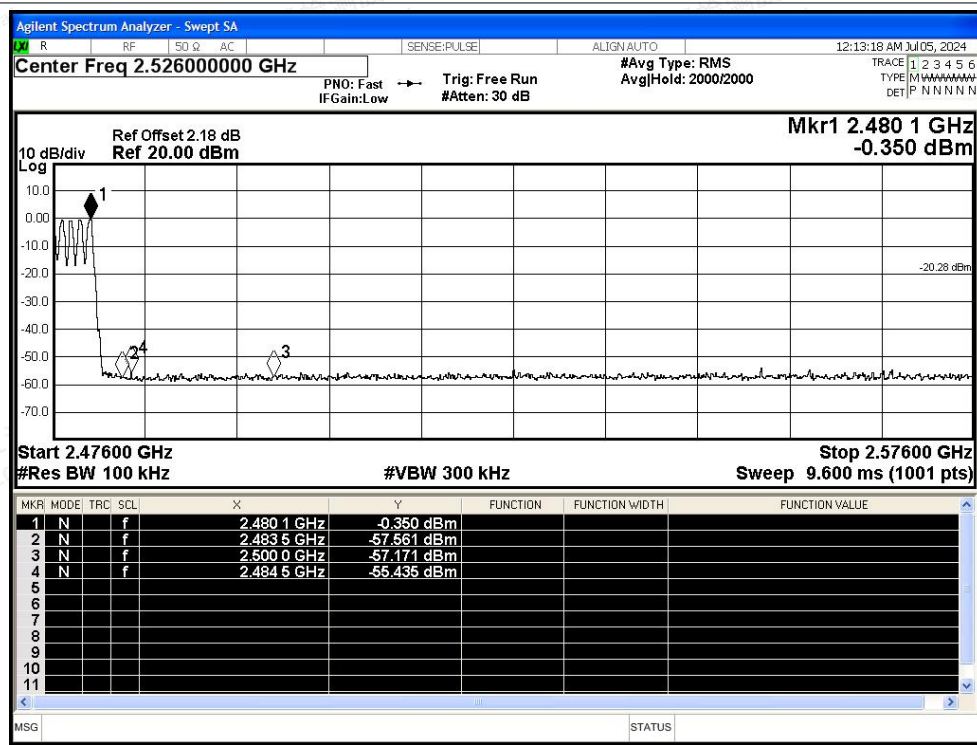
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Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Ref



Band Edge(Hopping) NVNT 1-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	1-DH5	2402	Ant1	-46.12	-20	Pass
NVNT	1-DH5	2441	Ant1	-46.92	-20	Pass
NVNT	1-DH5	2480	Ant1	-46.72	-20	Pass

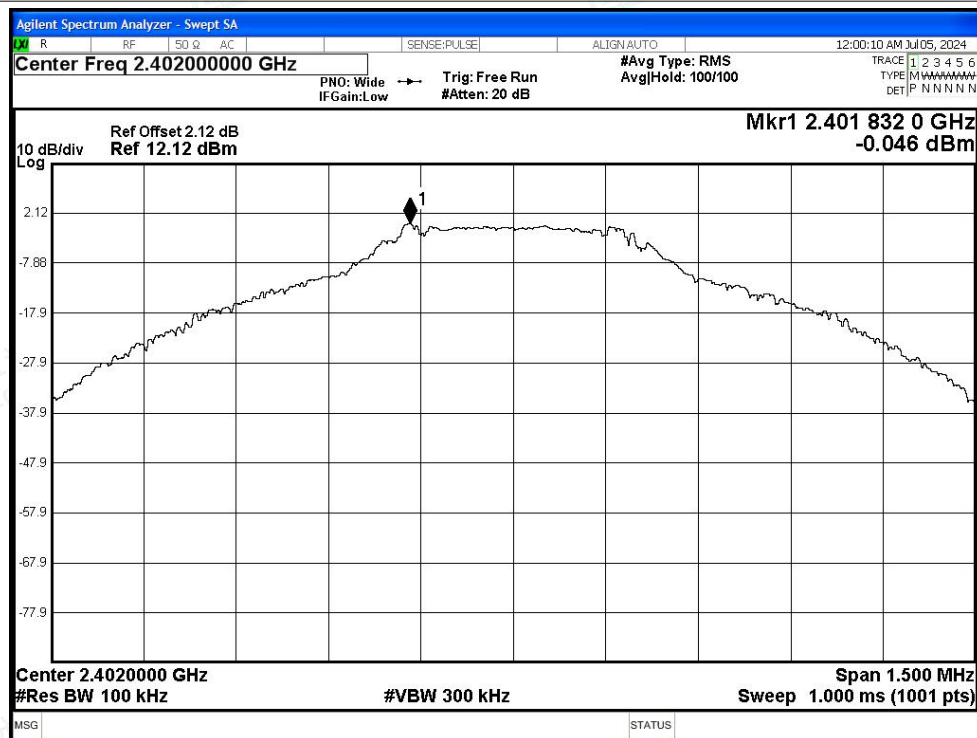


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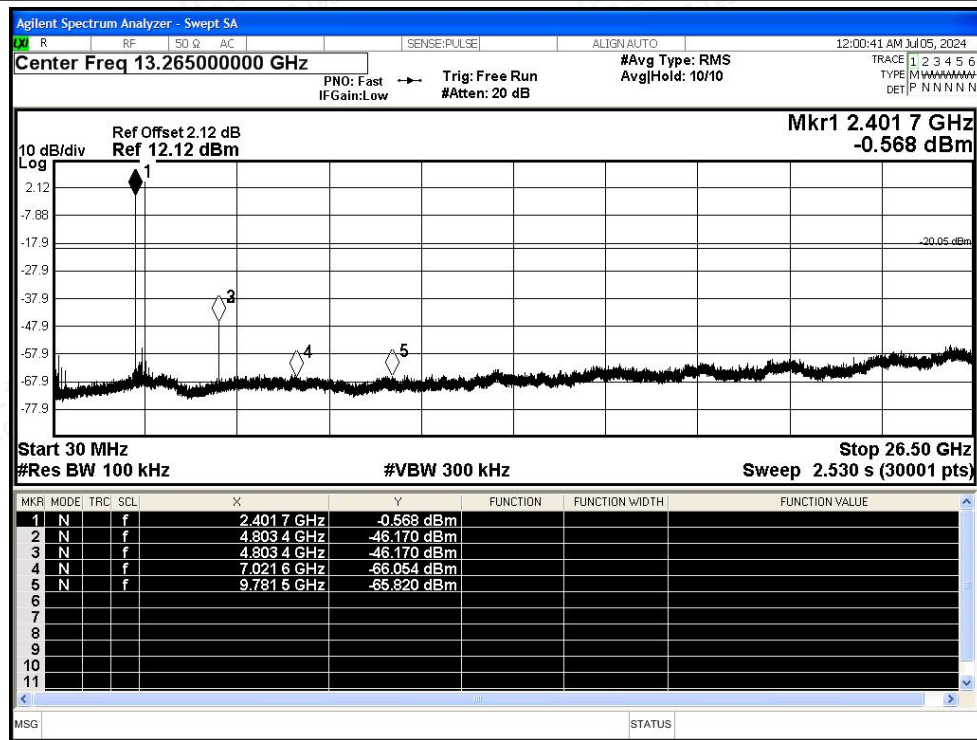


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission



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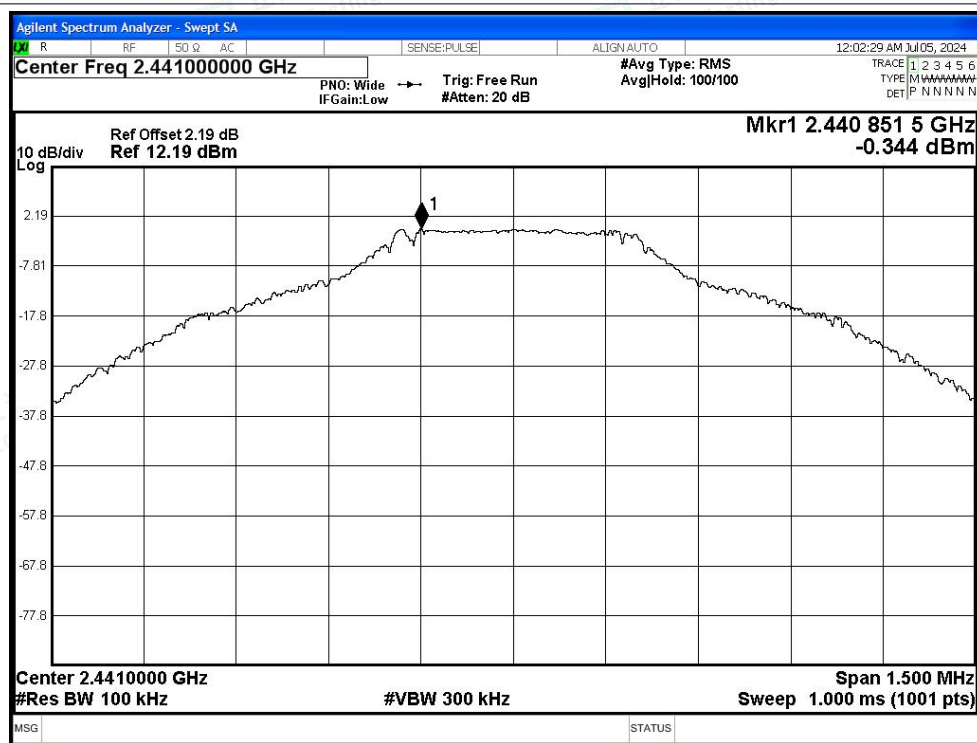
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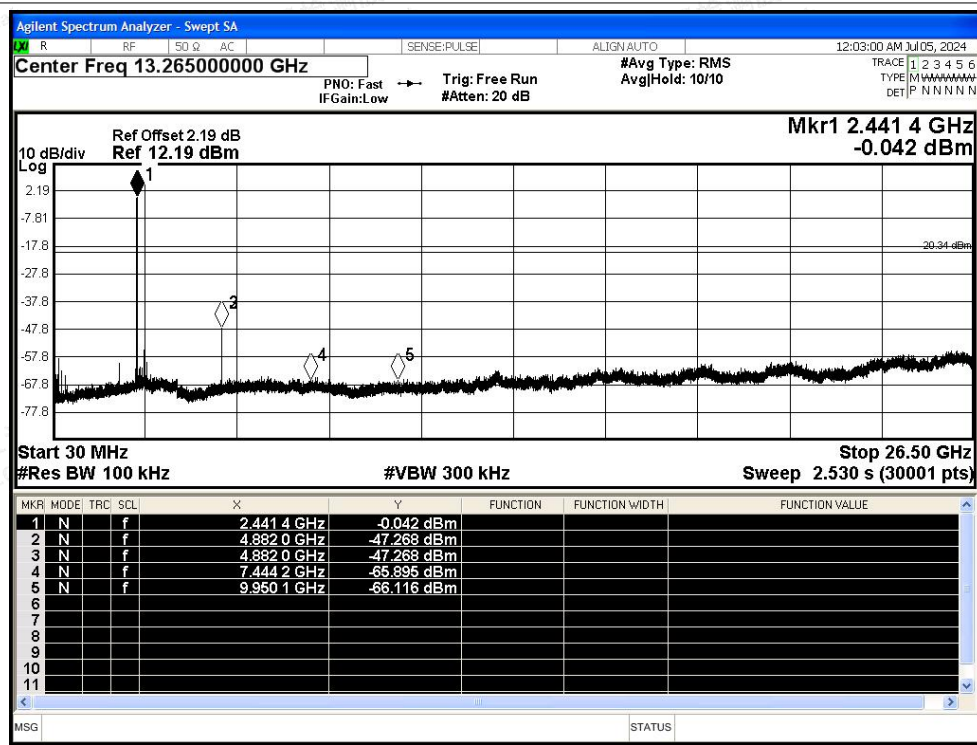
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Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission



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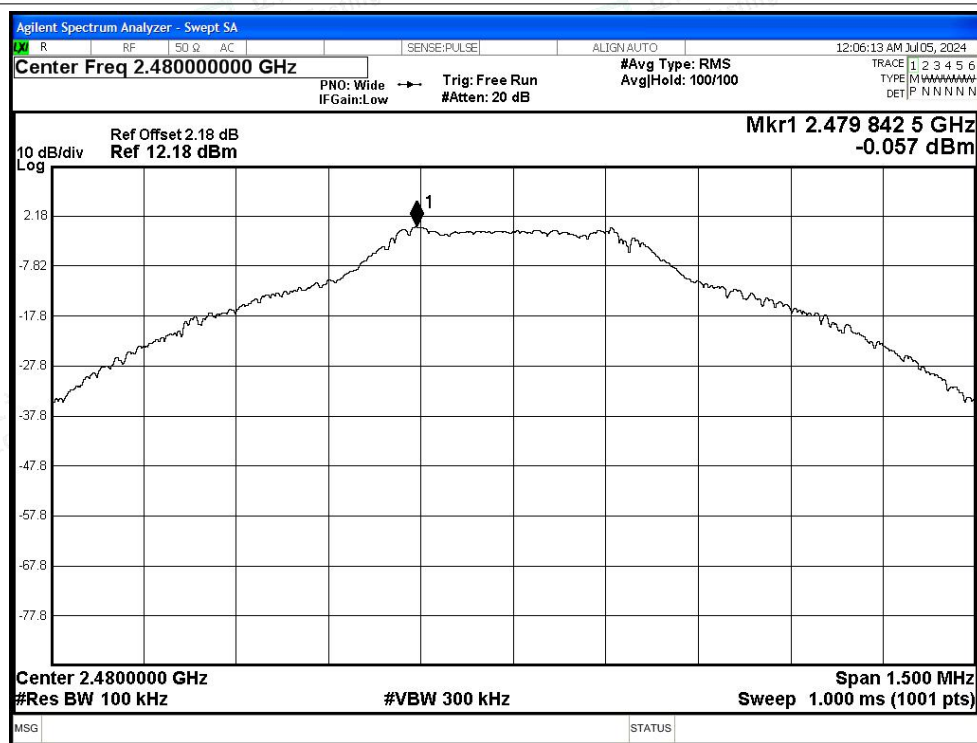
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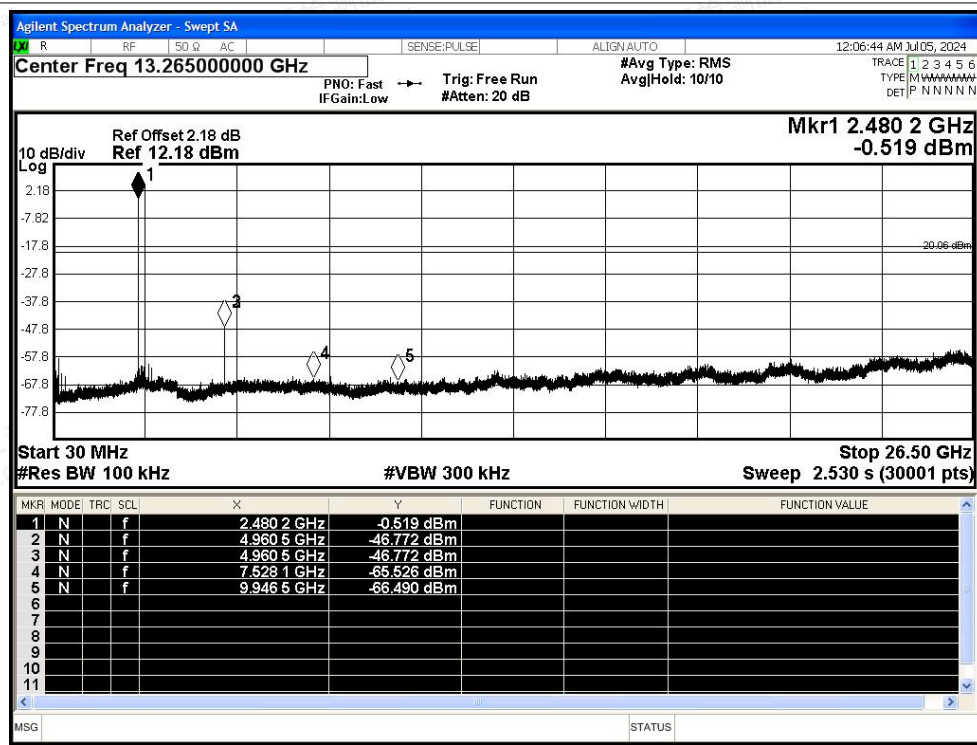
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Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission



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A.8 Duty Cycle

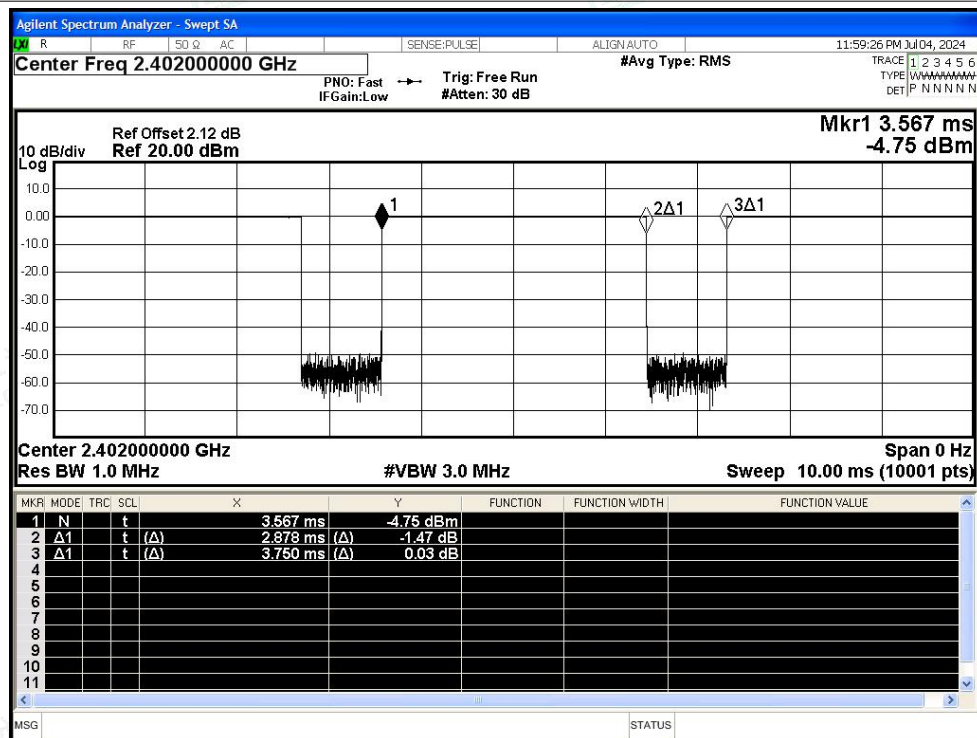
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	1-DH5	2402	Ant1	76.75	1.15	0.35
NVNT	1-DH5	2441	Ant1	76.77	1.15	0.35
NVNT	1-DH5	2480	Ant1	76.77	1.15	0.35



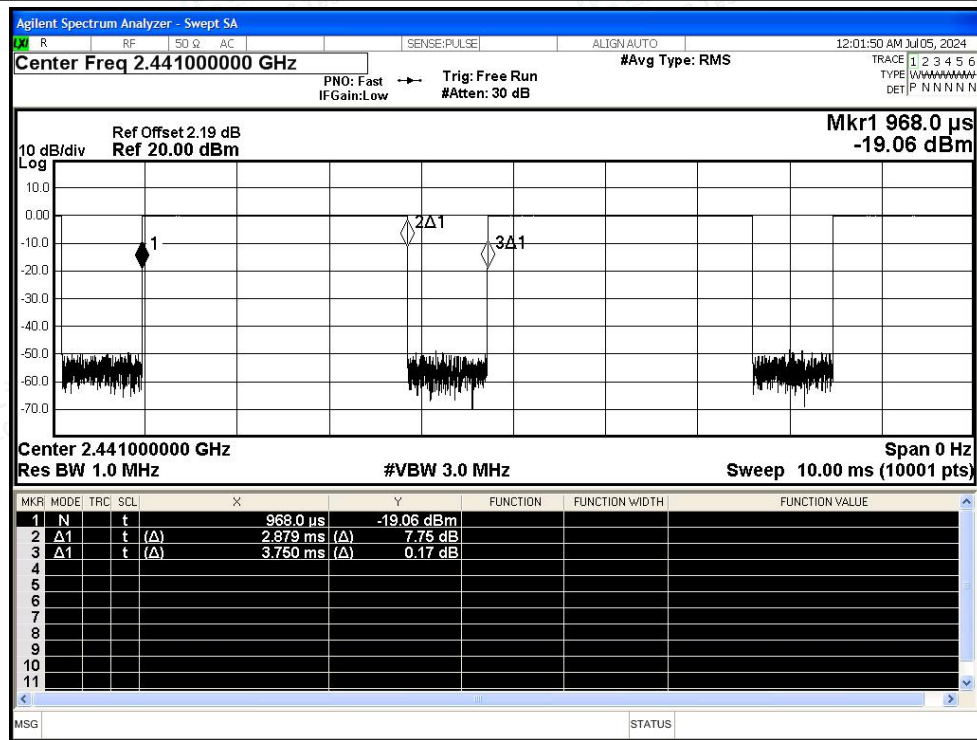


Test Graphs

Duty Cycle NVNT 1-DH5 2402MHz Ant1



Duty Cycle NVNT 1-DH5 2441MHz Ant1



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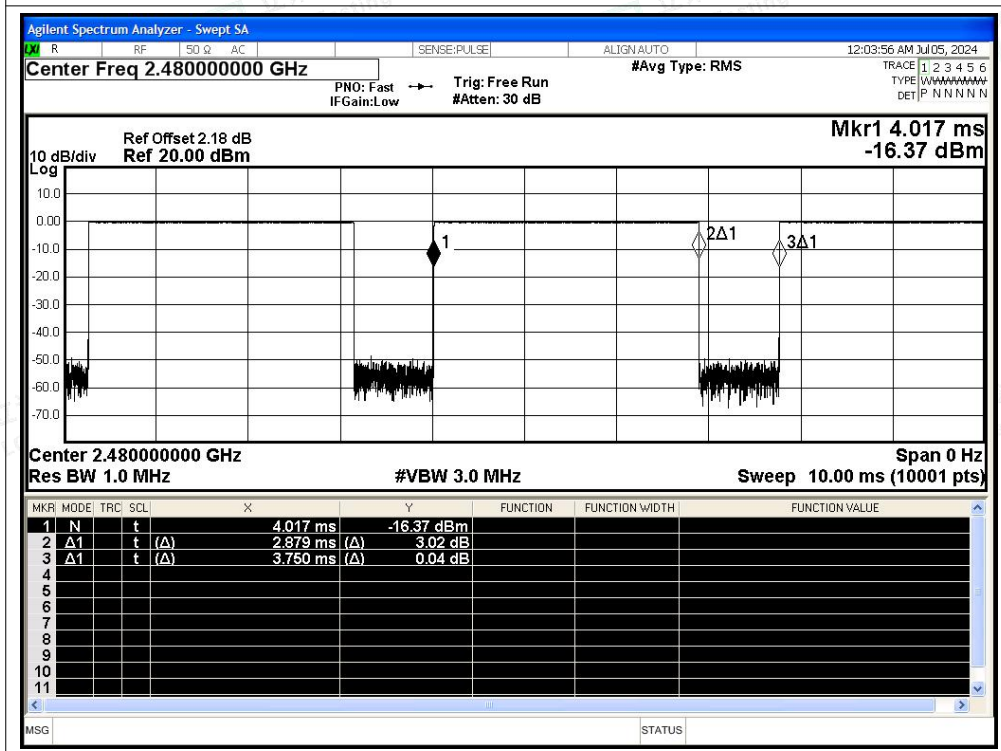
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Duty Cycle NVNT 1-DH5 2480MHz Ant1



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A.9 Restrict Band

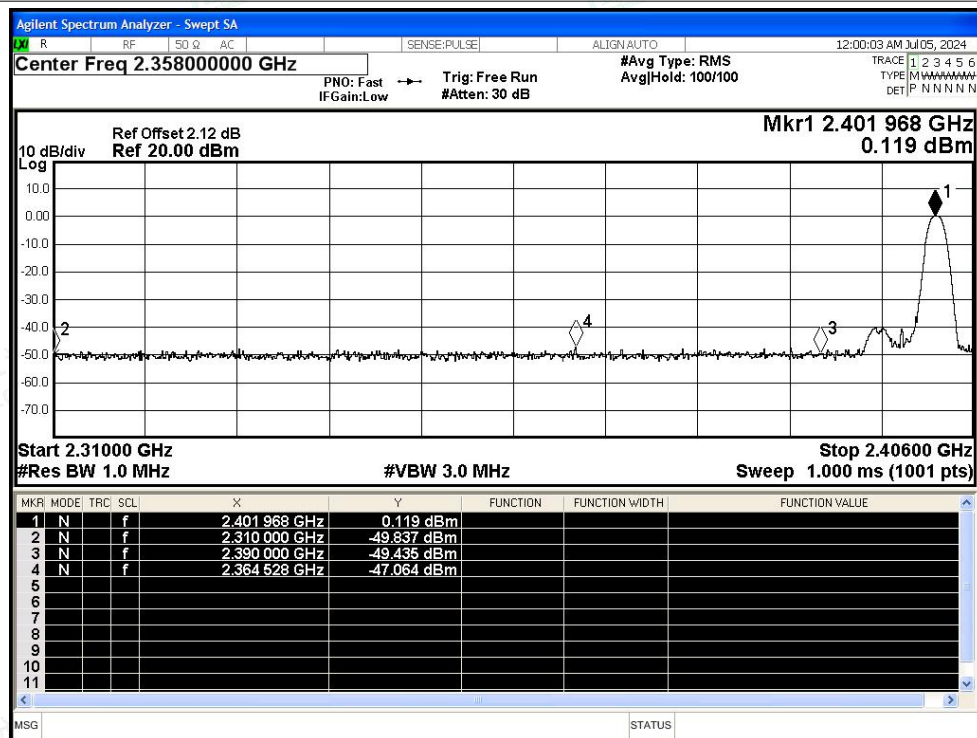
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-49.84	3.42	-	48.84	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-59.27	3.42	1.15	40.56	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2364.528	-47.06	3.42	-	51.62	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2378.256	-57.06	3.42	1.15	42.77	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-49.44	3.42	-	49.24	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-58.23	3.42	1.15	41.6	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-48.35	3.42	-	50.33	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-56.17	3.42	1.15	43.66	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2484.232	-46.29	3.42	-	52.39	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.728	-55.95	3.42	1.15	43.88	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-50.34	3.42	-	48.34	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-57.78	3.42	1.15	42.05	Average	54	Pass



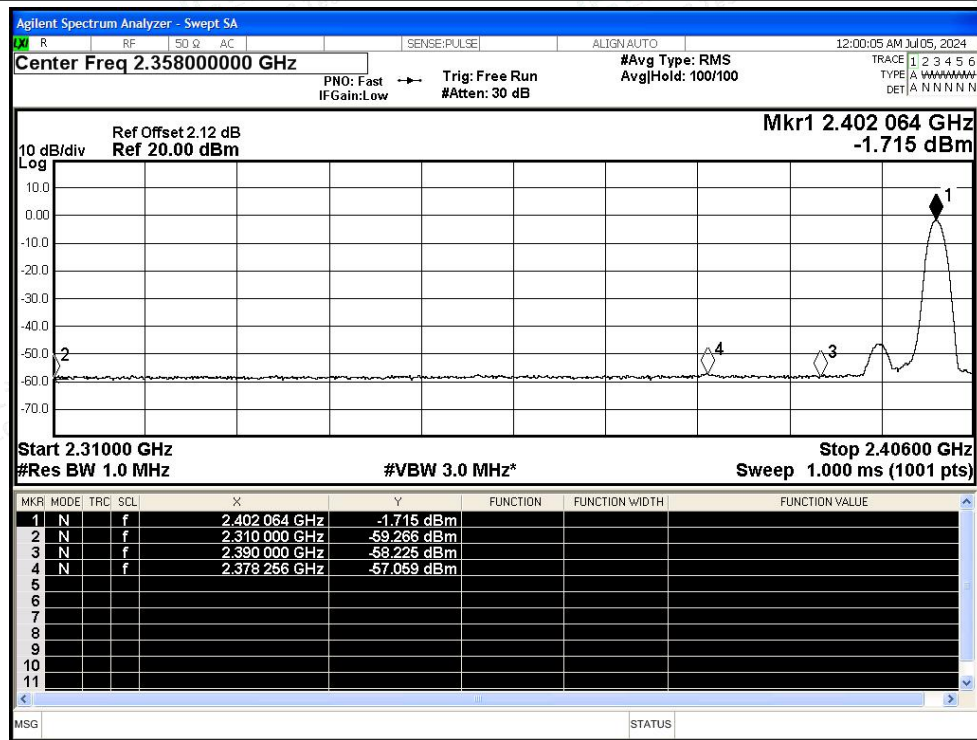


Test Graphs

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



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



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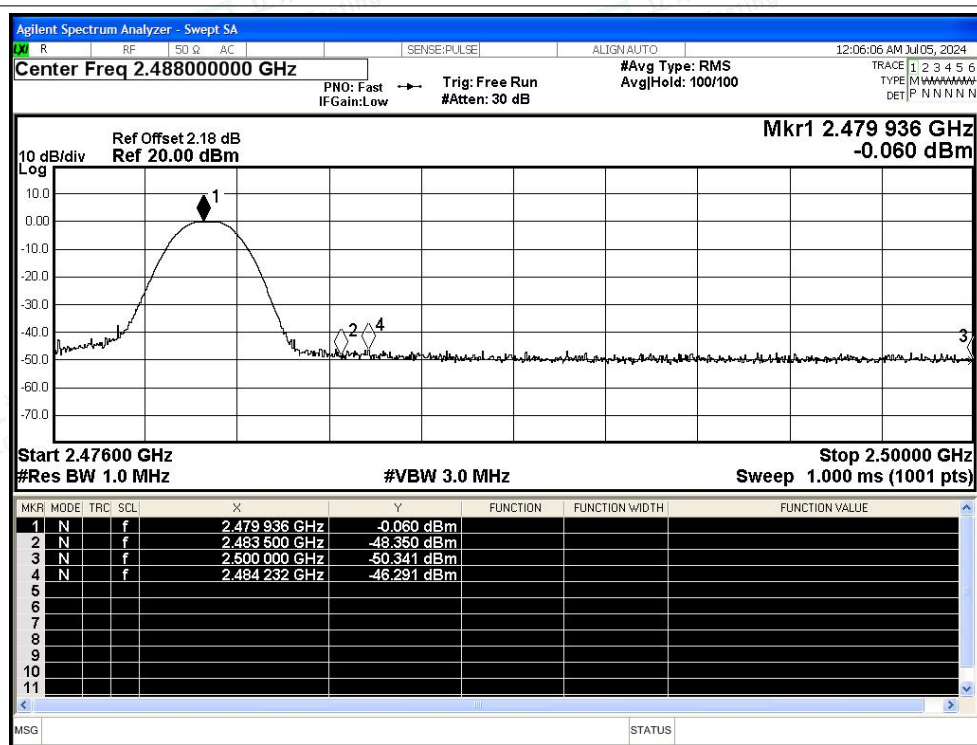
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Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Peak



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

