



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: INKY75

Test Model: INKY75

Environmental Conditions

Temperature:	23.6°C
Relative Humidity:	52.9%
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	0.951	N/A	Pass
NVNT	1-DH5	2441	Ant1	0.942	N/A	Pass
NVNT	1-DH5	2480	Ant1	0.948	N/A	Pass



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Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1

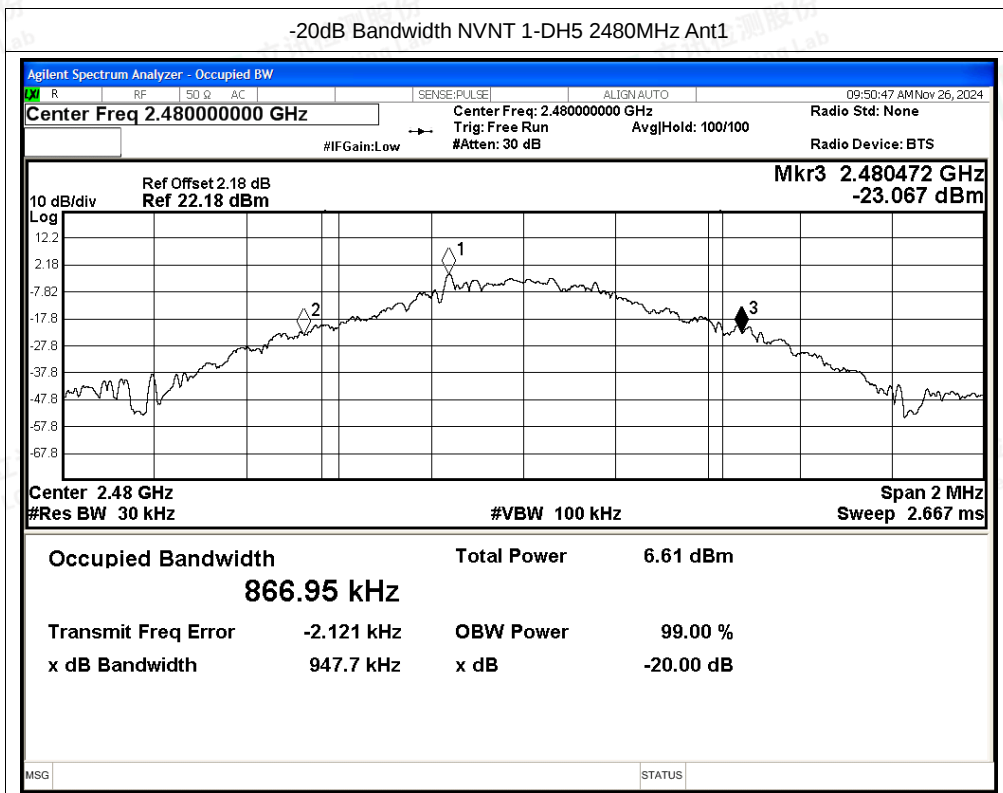


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A.2 Maximum Peak Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	0.70	21	Pass
NVNT	1-DH5	2441	Ant1	0.39	21	Pass
NVNT	1-DH5	2480	Ant1	0.43	21	Pass

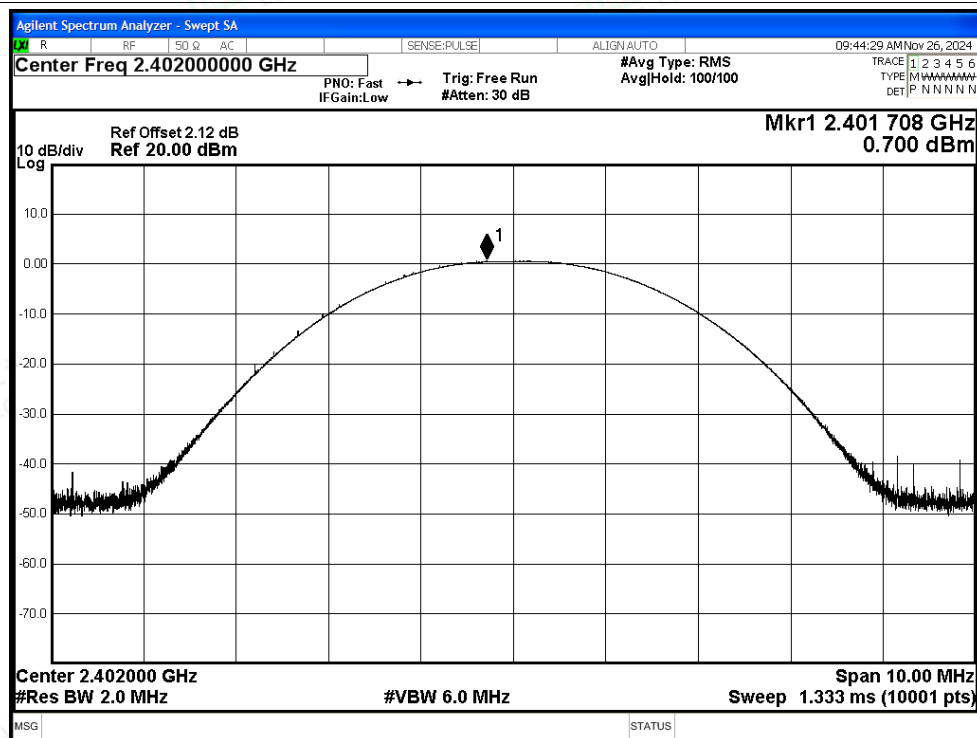


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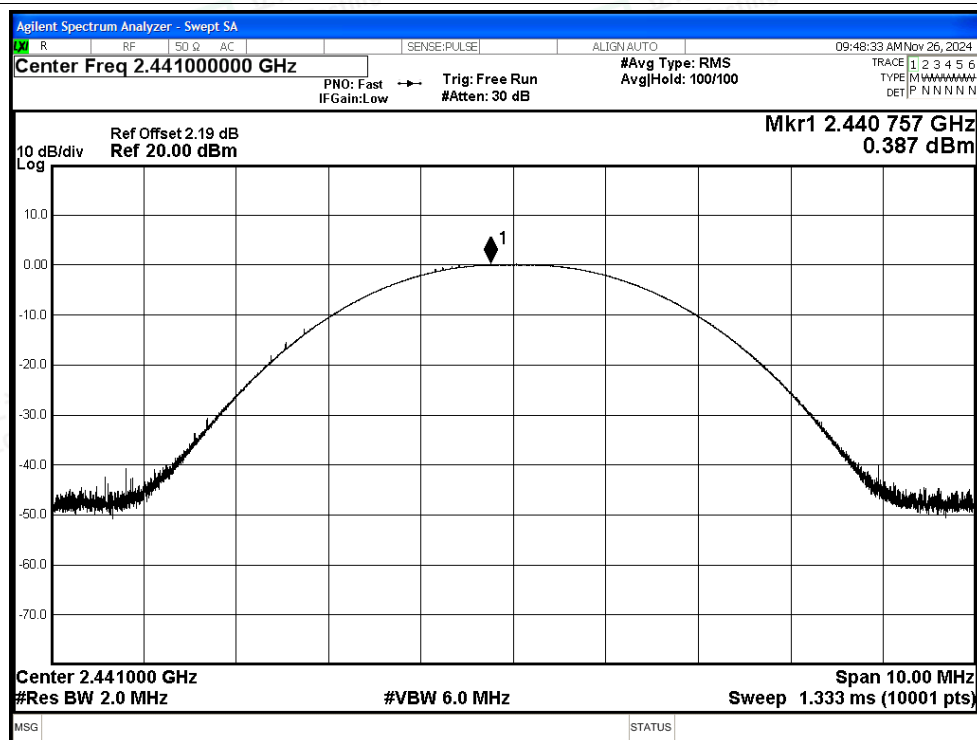


Test Graphs

Power NVNT 1-DH5 2402MHz Ant1



Power NVNT 1-DH5 2441MHz Ant1

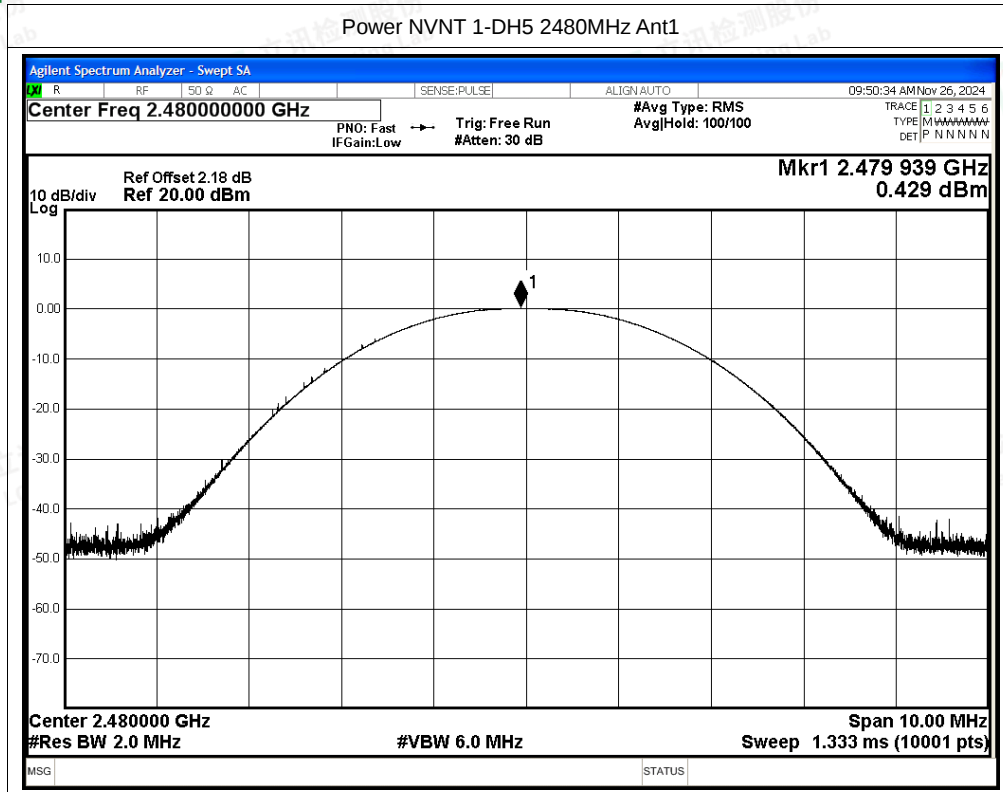


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A.3 Carrier Frequencies Separation

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2402.058	2402.974	0.916	0.634	Pass

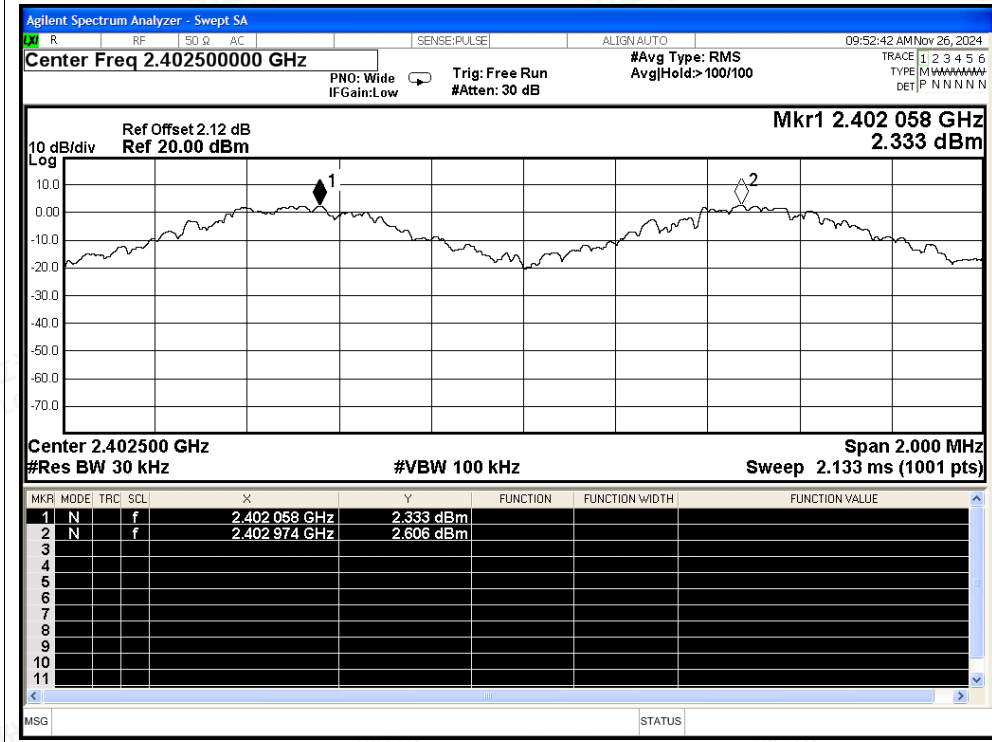


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Test Graphs

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	2.91	291	100	31600	400	Pass

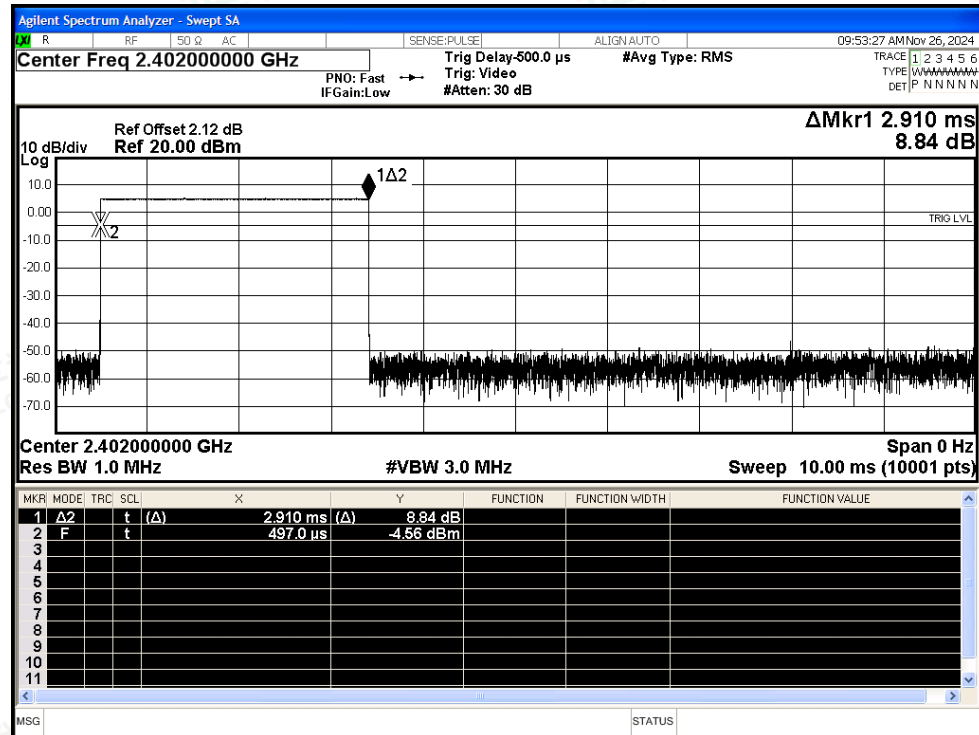


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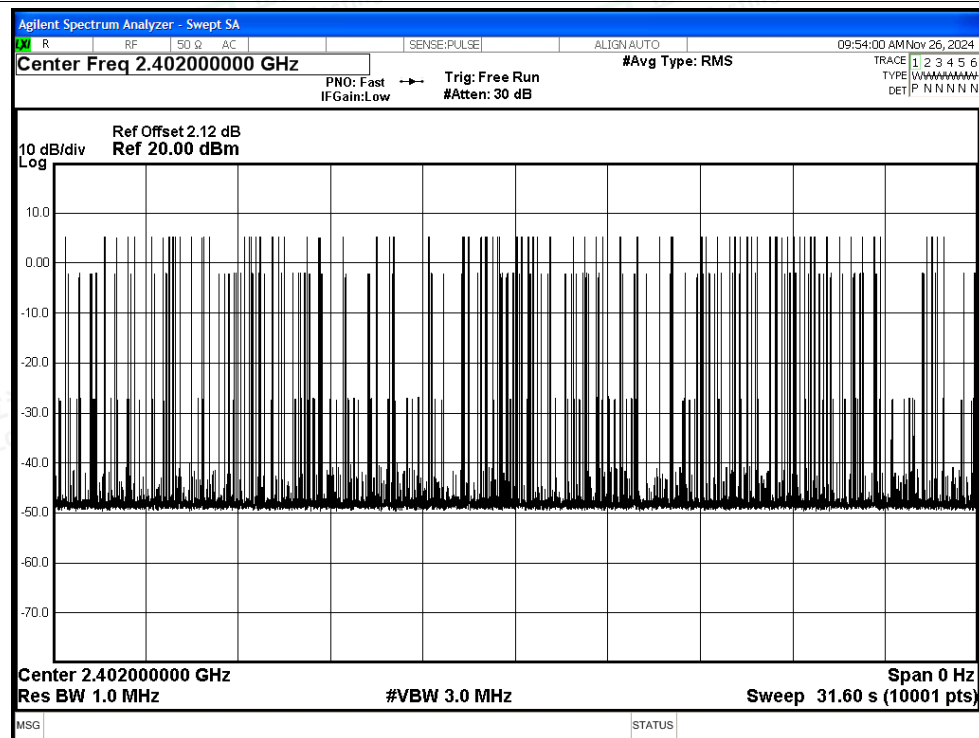


Test Graphs

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

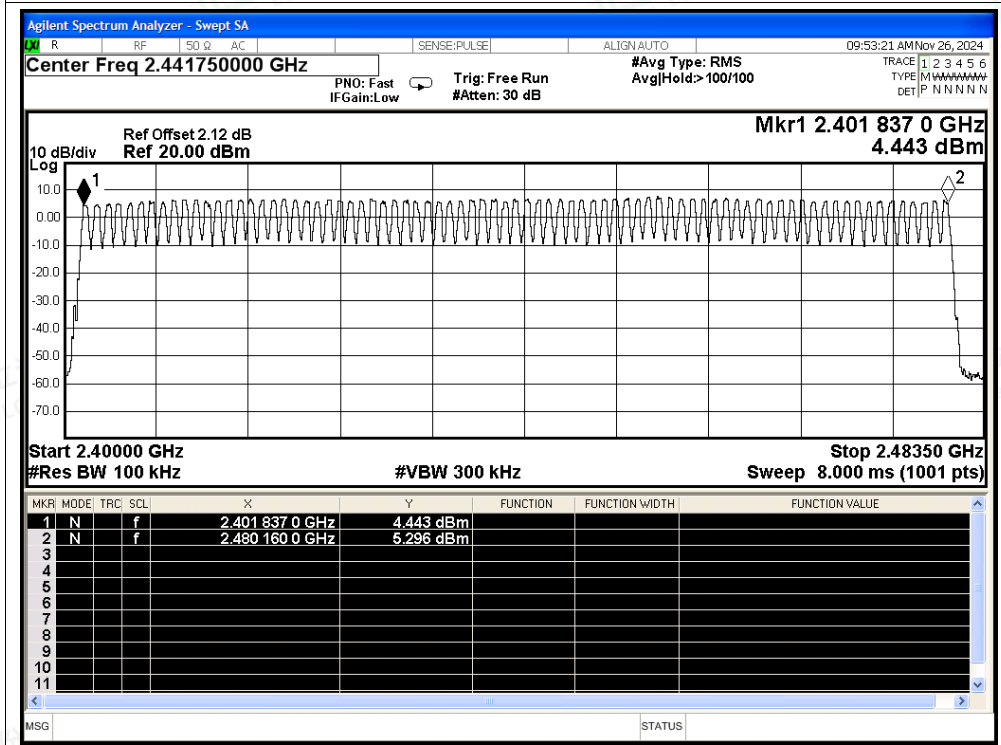
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH5	Ant1	79	15	Pass





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	-57.18	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-56.76	-20	Pass

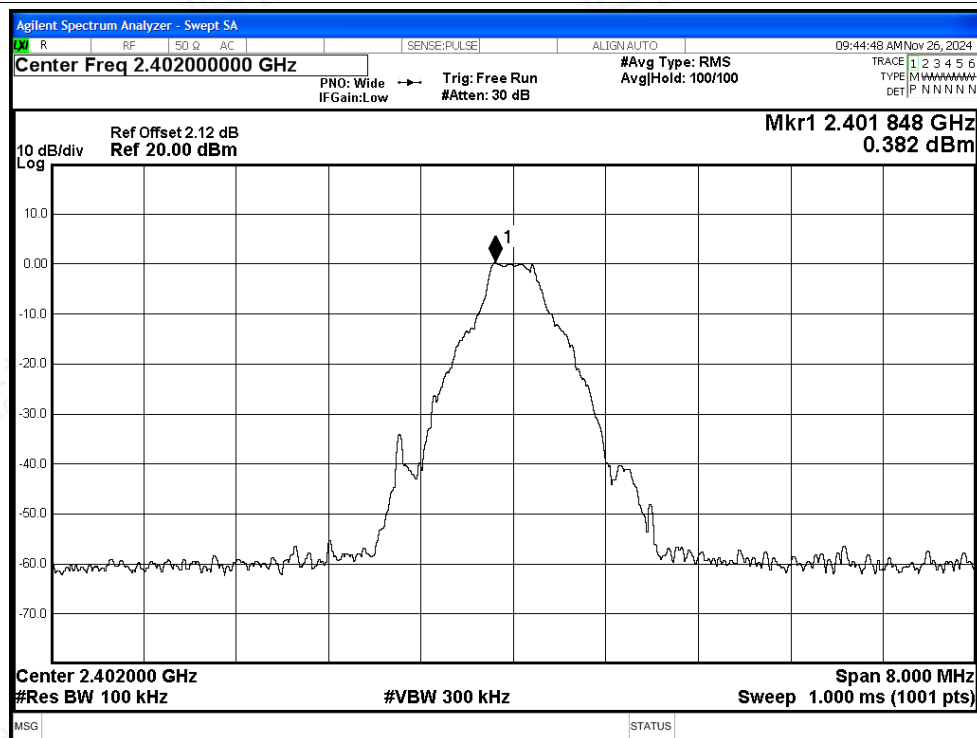


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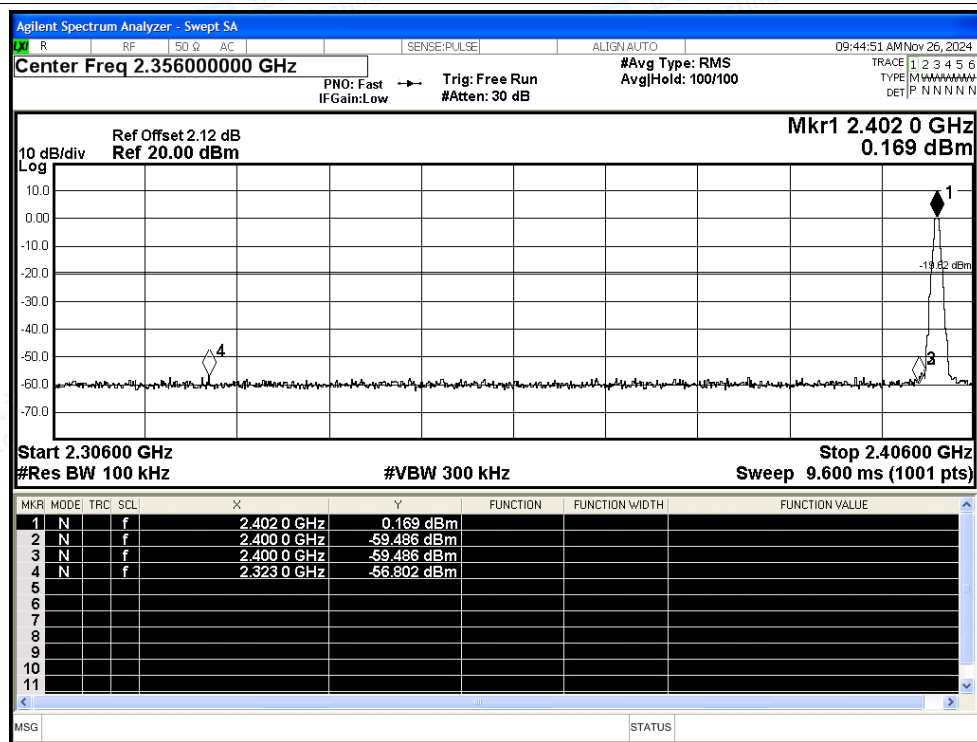


Test Graphs

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



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



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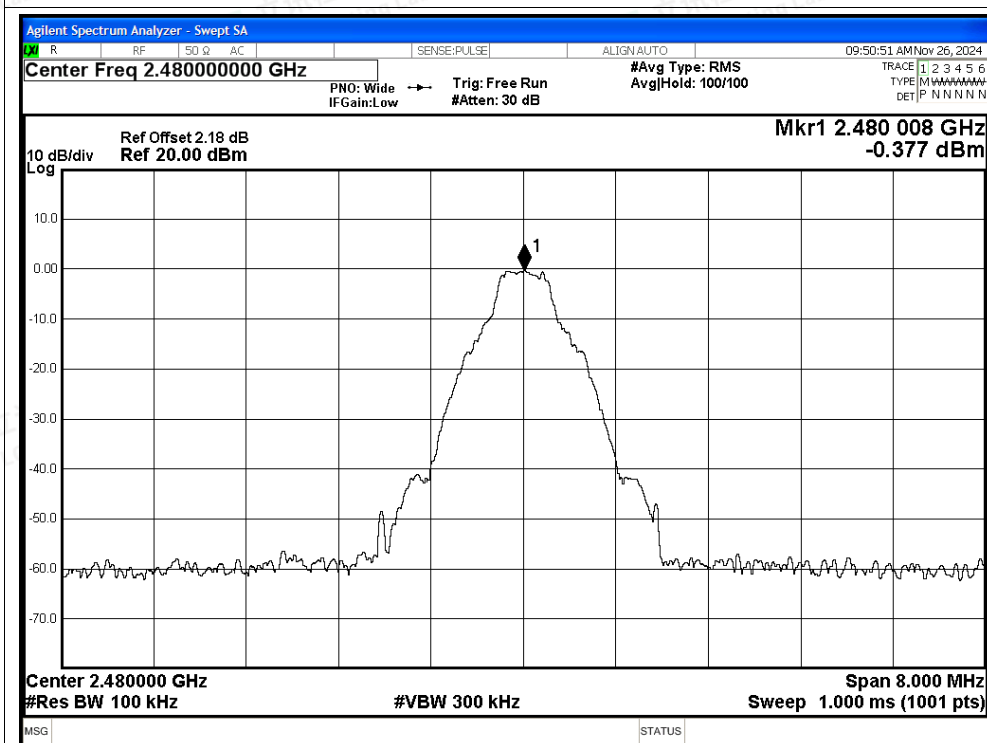
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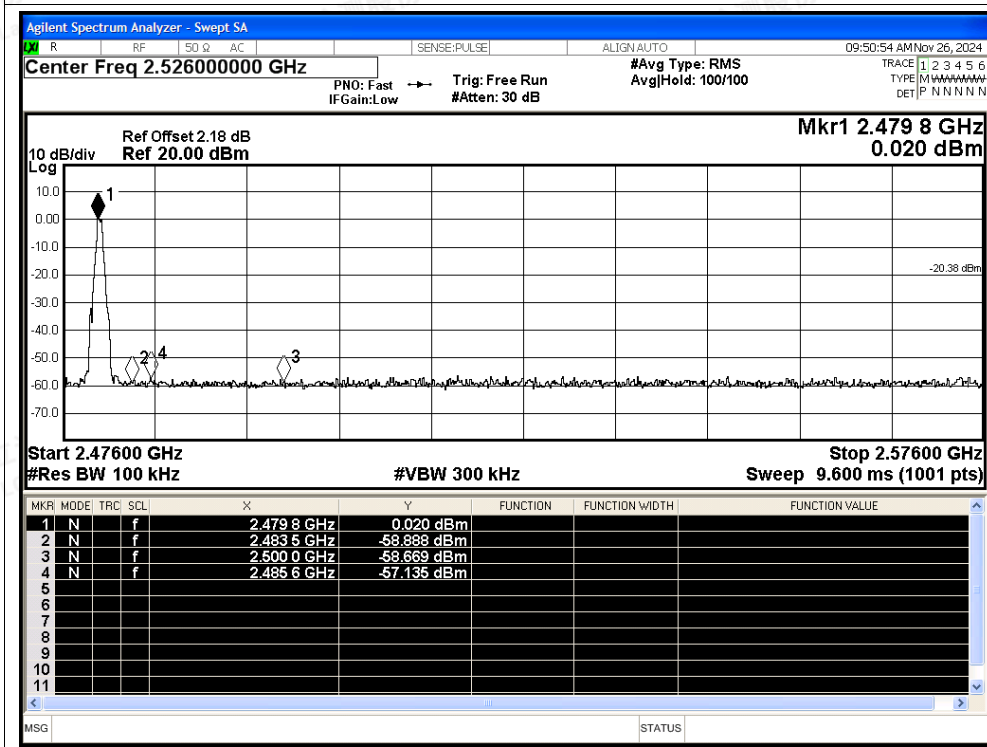
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Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref



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



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(Hopping)

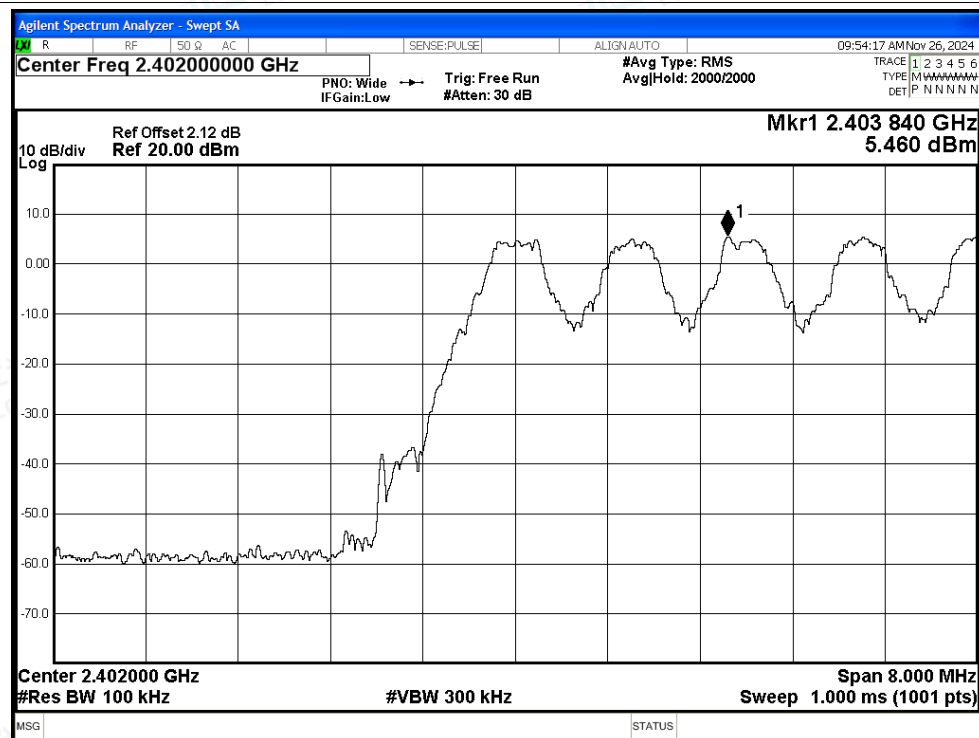
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-61.27	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-62.06	-20	Pass



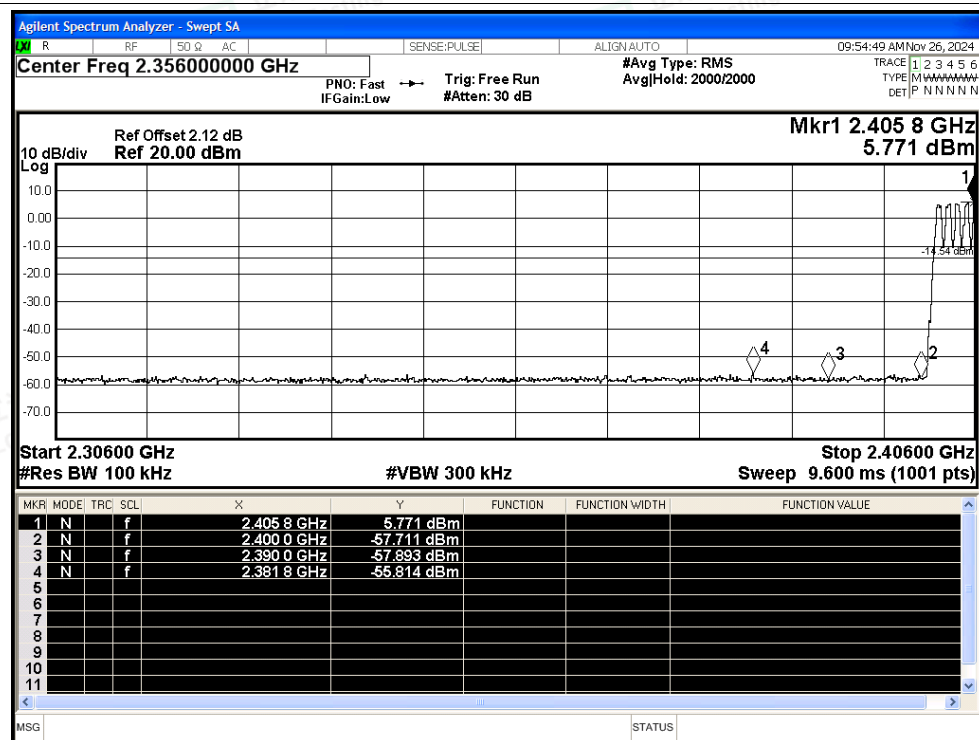


Test Graphs

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



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



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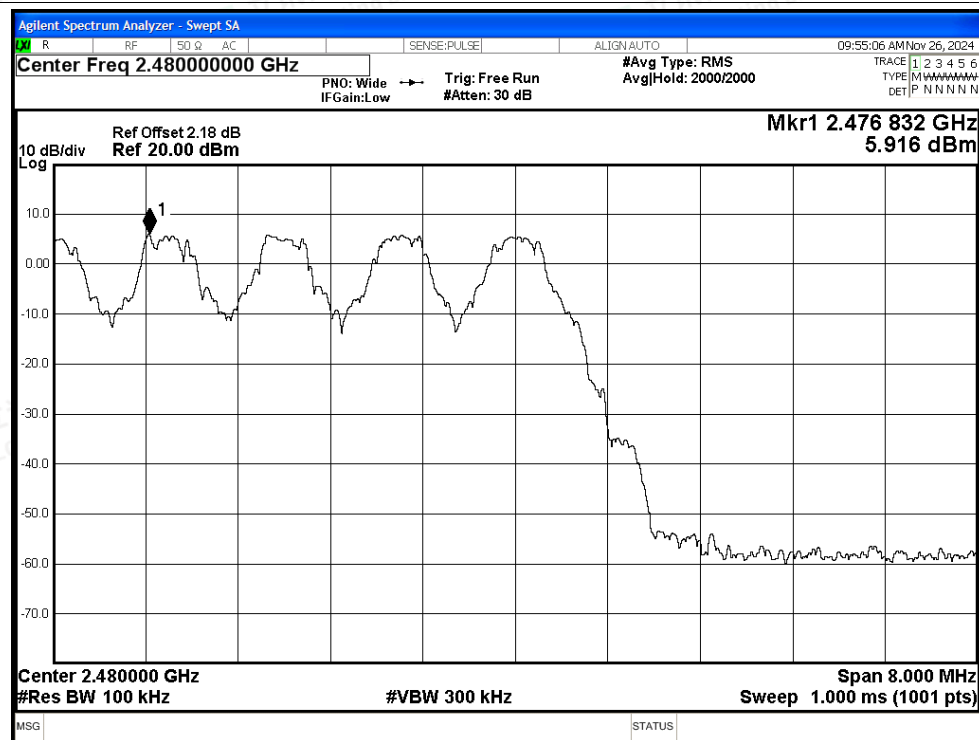
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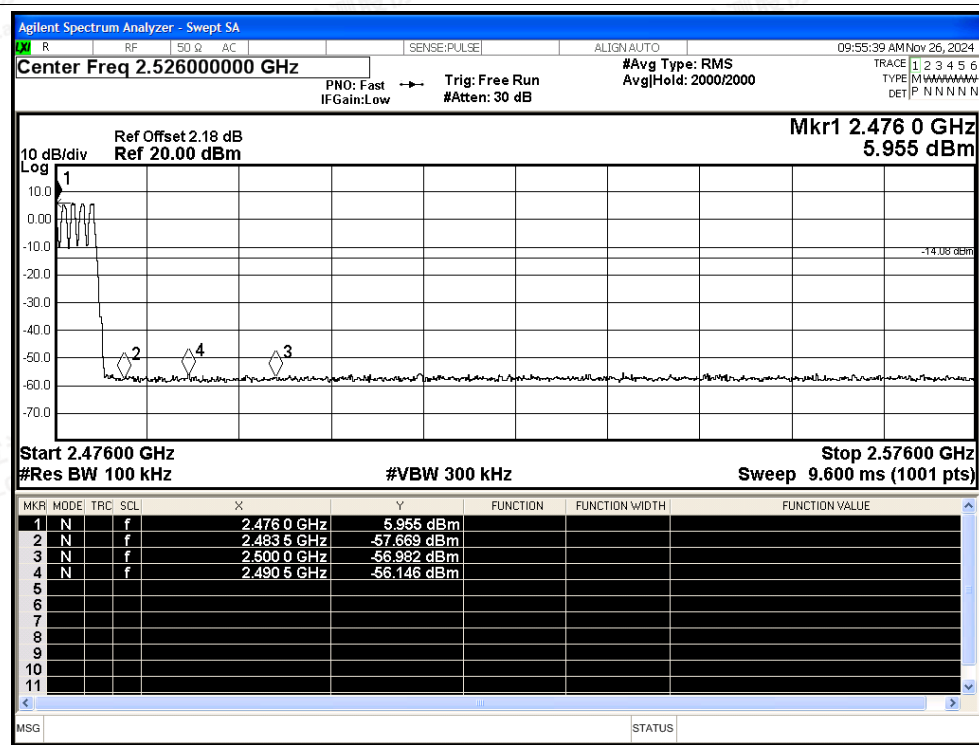
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Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Ref



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	-56.14	-20	Pass
NVNT	1-DH5	2441	Ant1	-55.44	-20	Pass
NVNT	1-DH5	2480	Ant1	-55.67	-20	Pass

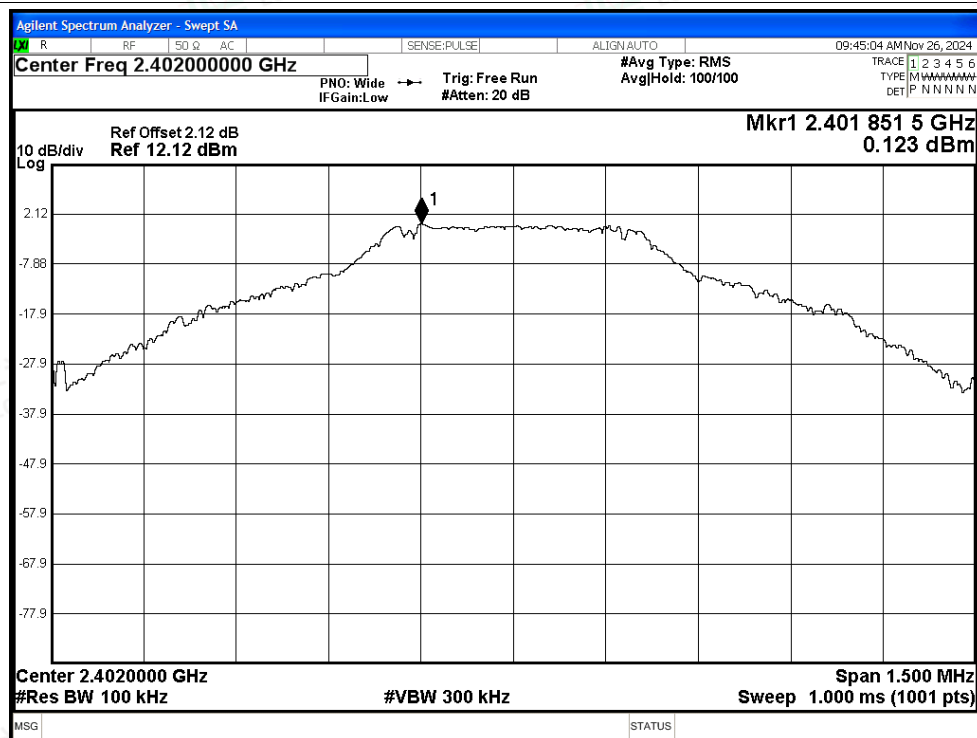


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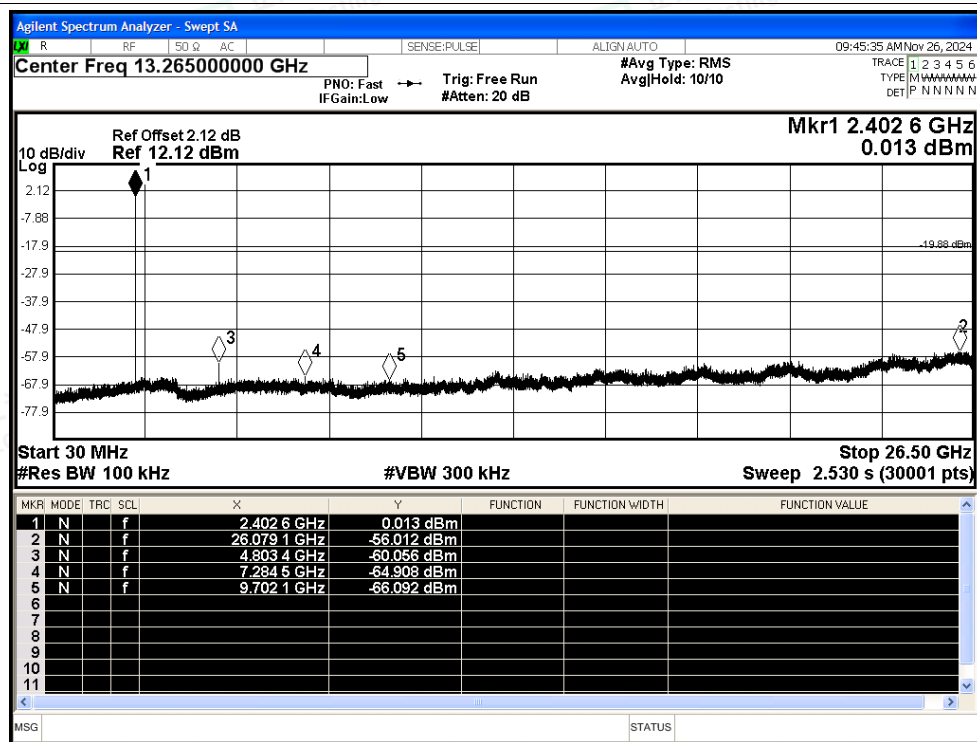


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission



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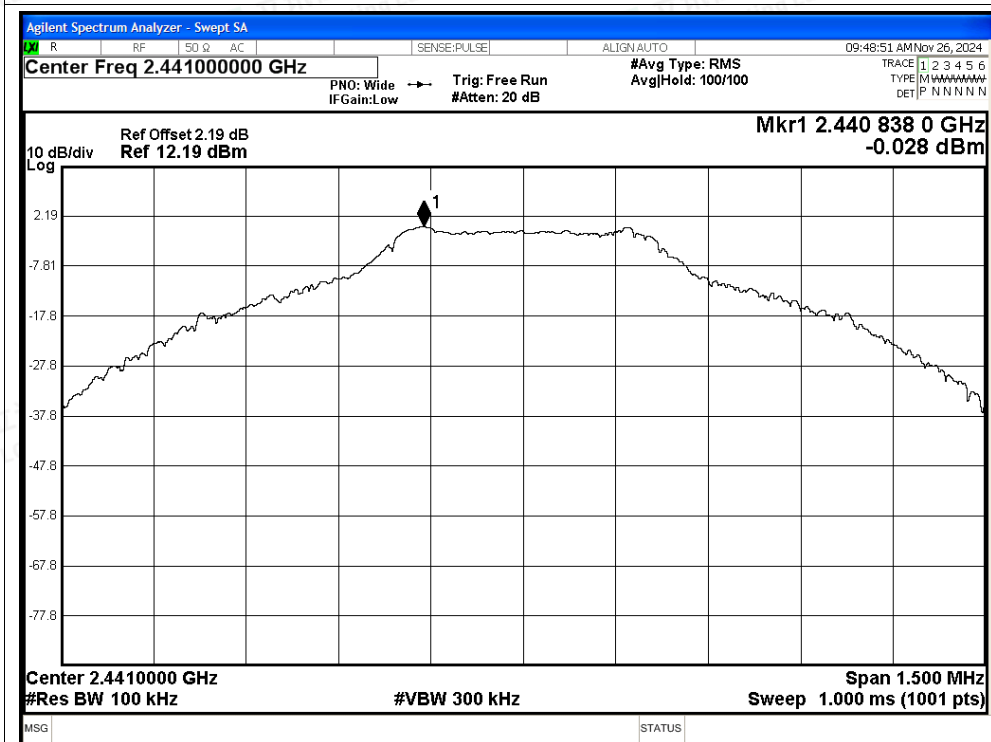
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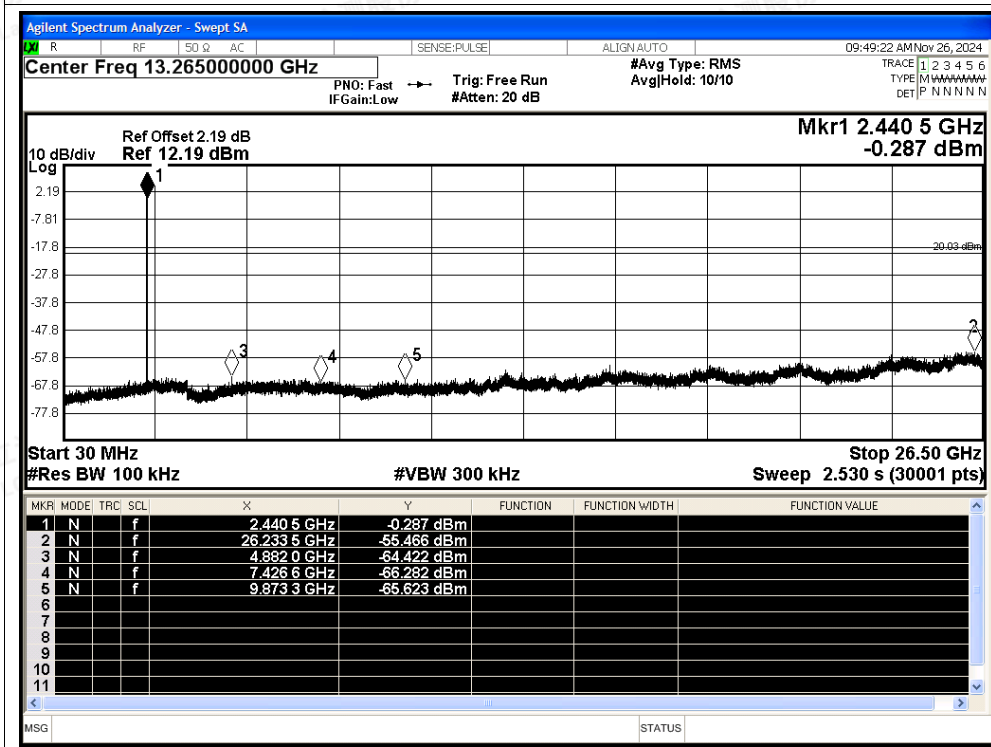
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Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission



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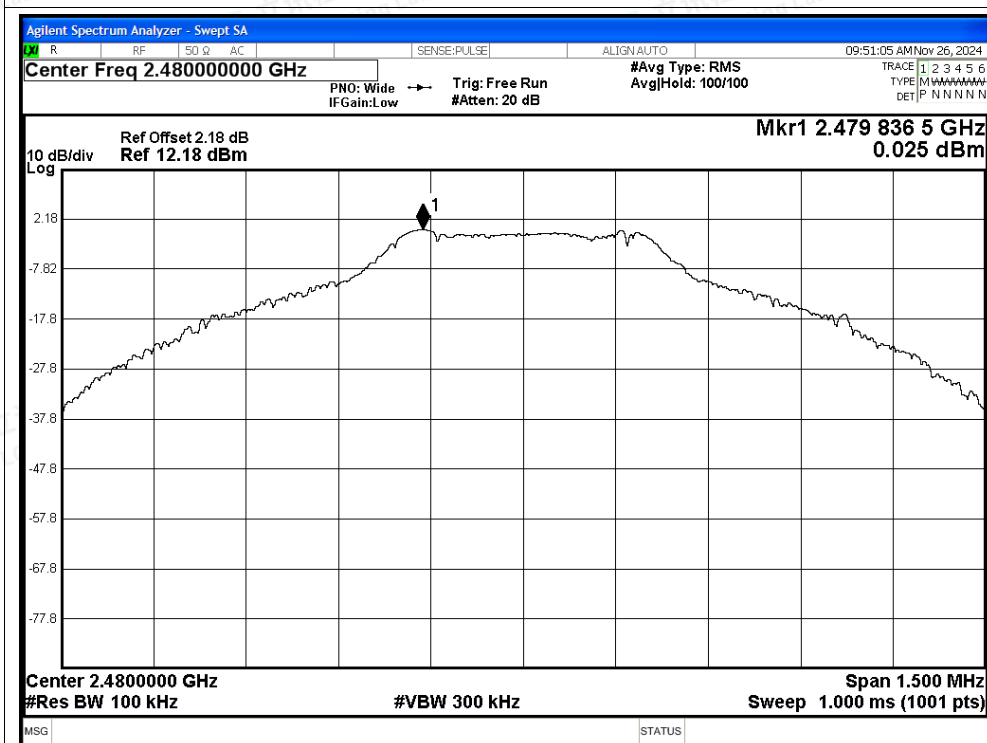
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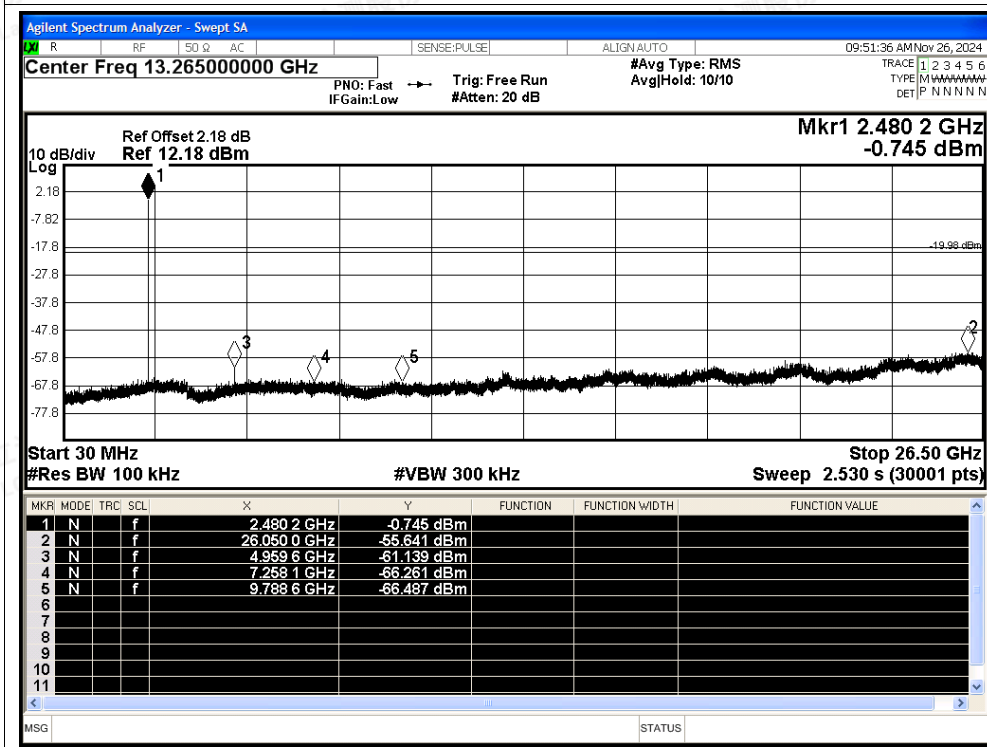
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Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref



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	77.6	1.1	0.34
NVNT	1-DH5	2441	Ant1	77.63	1.1	0.34
NVNT	1-DH5	2480	Ant1	77.6	1.1	0.34

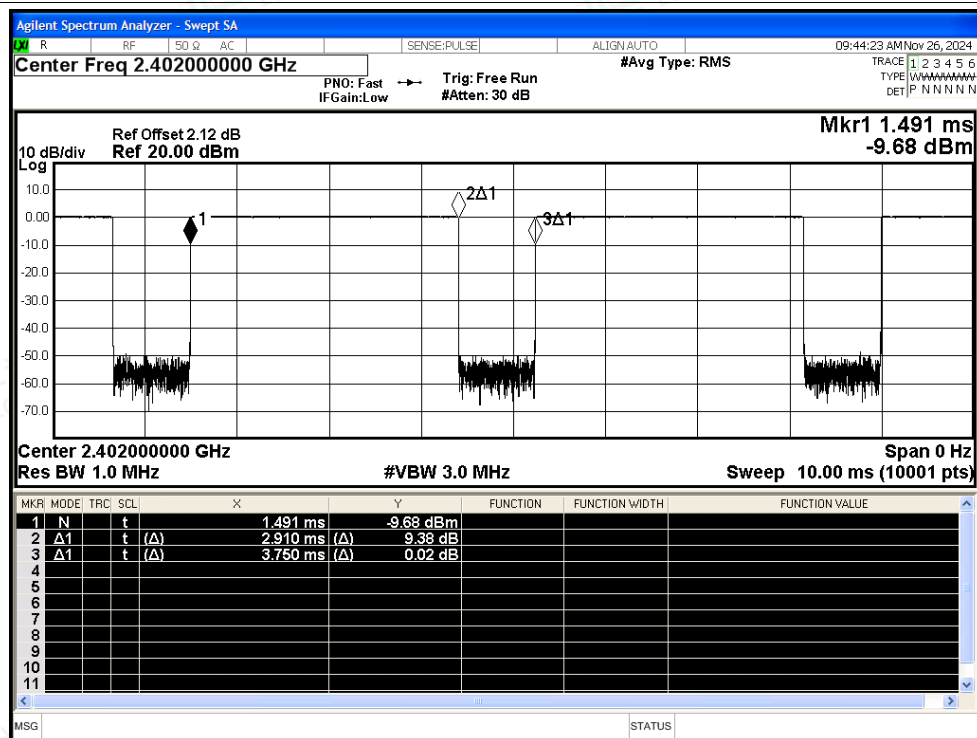


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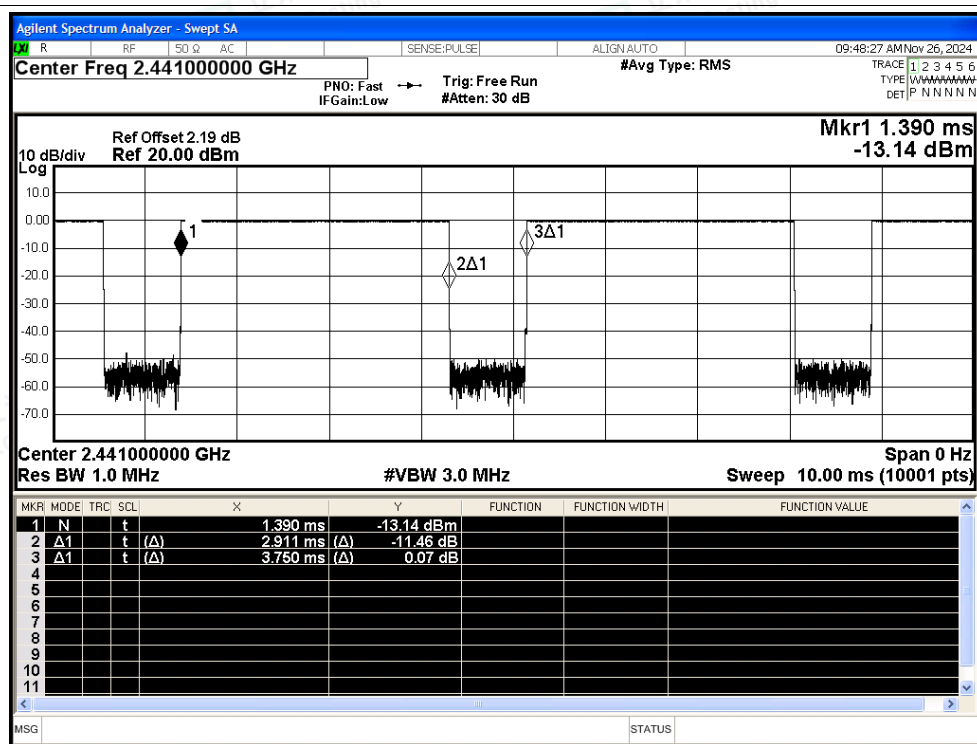


Test Graphs

Duty Cycle NVNT 1-DH5 2402MHz Ant1



Duty Cycle NVNT 1-DH5 2441MHz Ant1

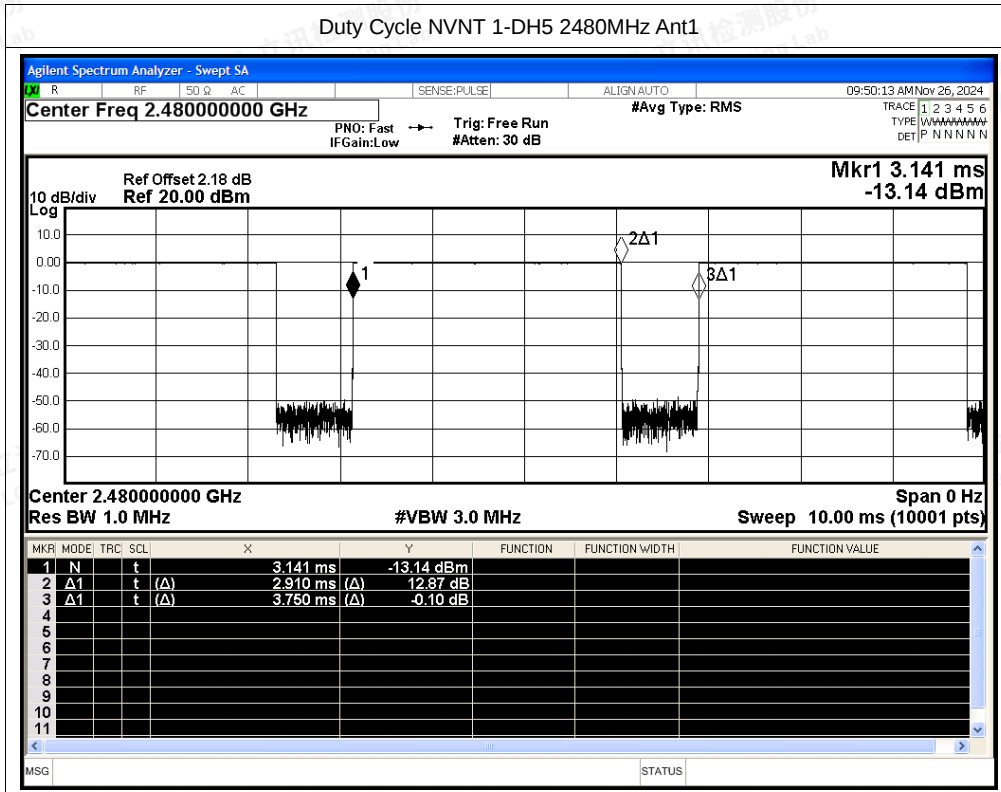


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A.9 Restrict Band

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	-52.1	2	-	45.16	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-58.97	2	1.1	39.39	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2347.44	-47.41	2	-	49.85	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2385.744	-57.58	2	1.1	40.78	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-51.04	2	-	46.22	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-58.41	2	1.1	39.95	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-50.23	2	-	47.03	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-58.59	2	1.1	39.77	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2485.168	-46.72	2	-	50.54	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.584	-57	2	1.1	41.36	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-48.89	2	-	48.37	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-58.1	2	1.1	40.26	Average	54	Pass



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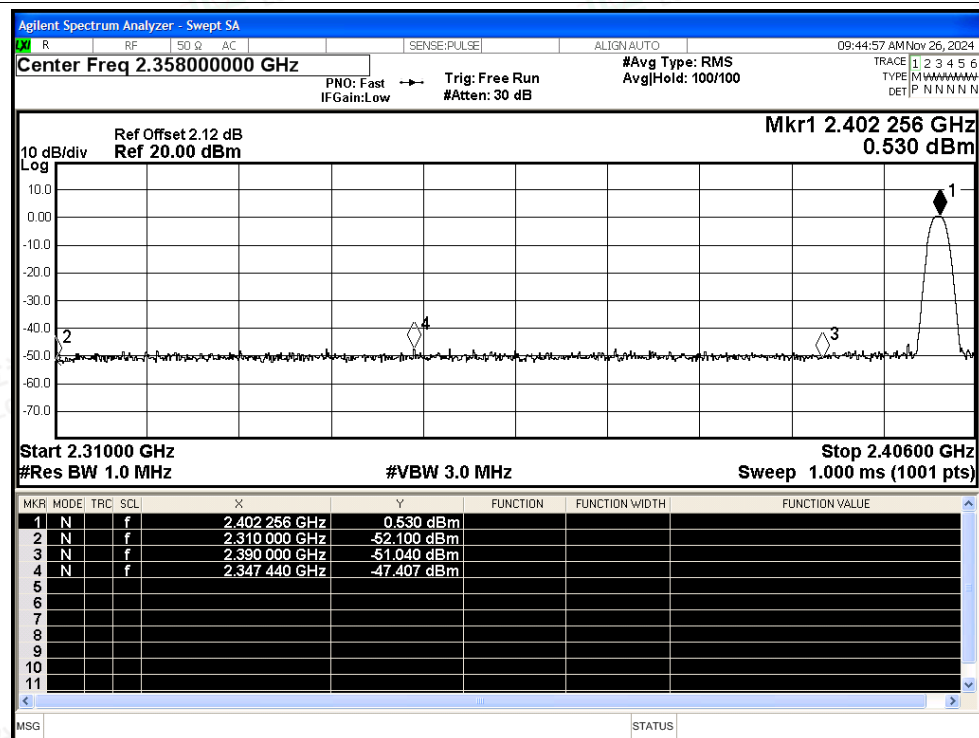
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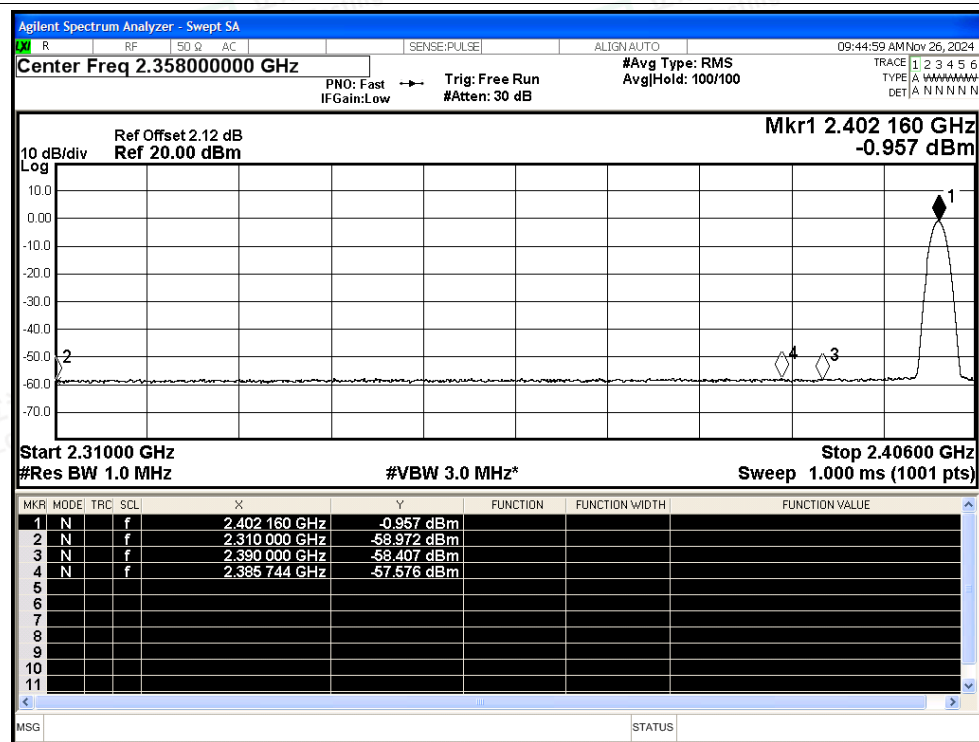


Test Graphs

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



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



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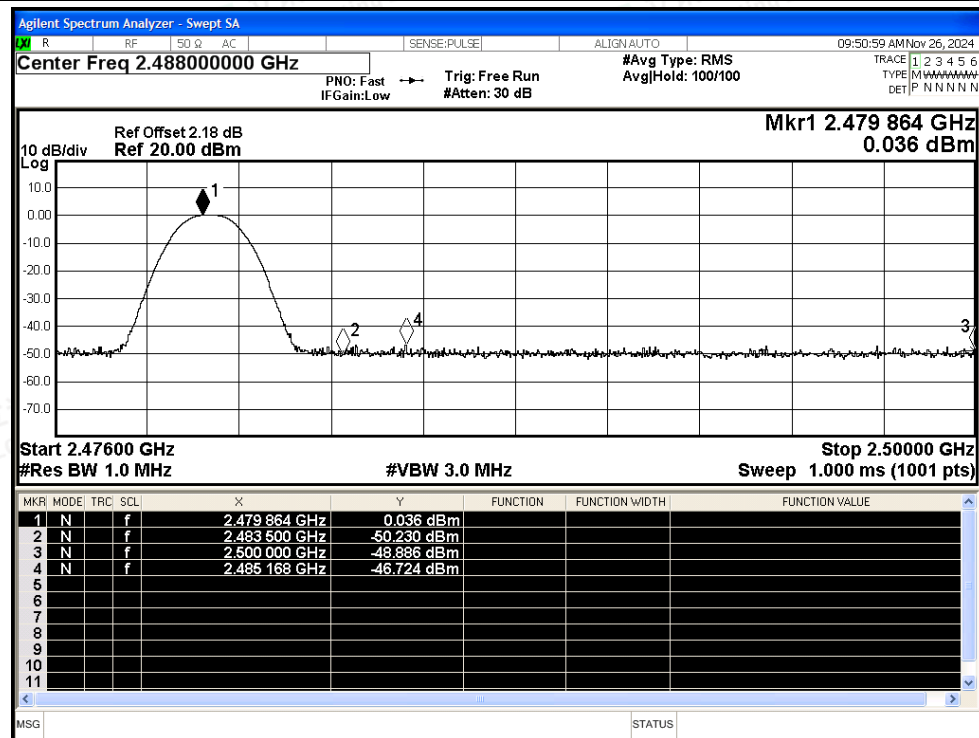
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Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Peak



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

