



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Keyboard

Test Model: SG8912

Environmental Conditions

Temperature:	23.5 ° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Nick Peng
Supervised by:	Ling Zhu



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A.1 -20dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	0.946	Pass
NVNT	1-DH5	2441	Ant1	0.961	Pass
NVNT	1-DH5	2480	Ant1	0.972	Pass



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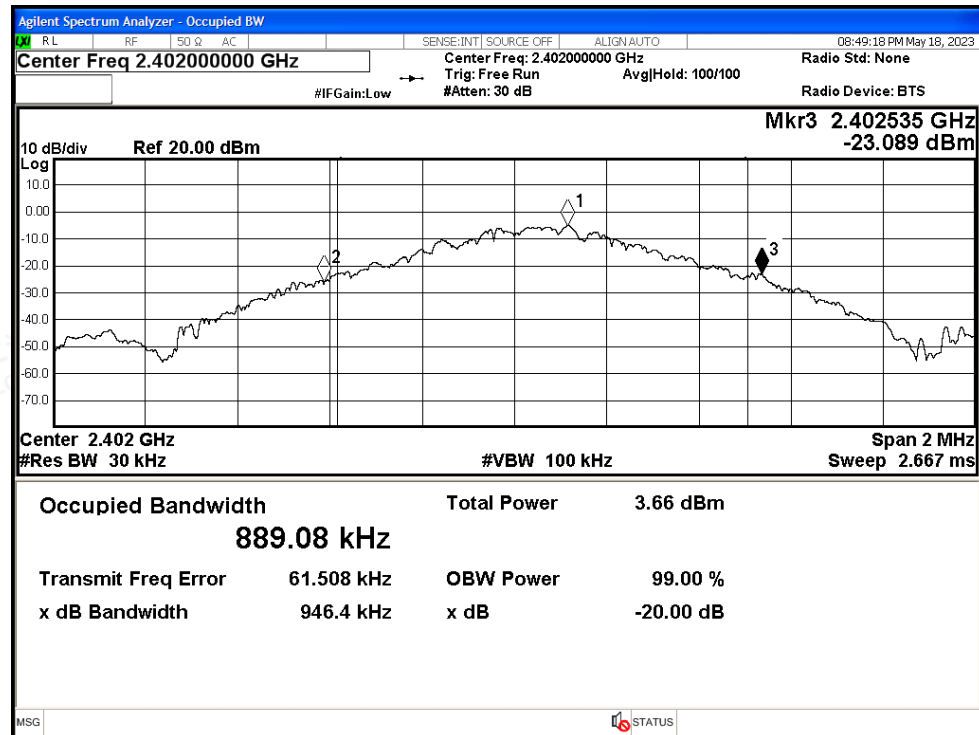
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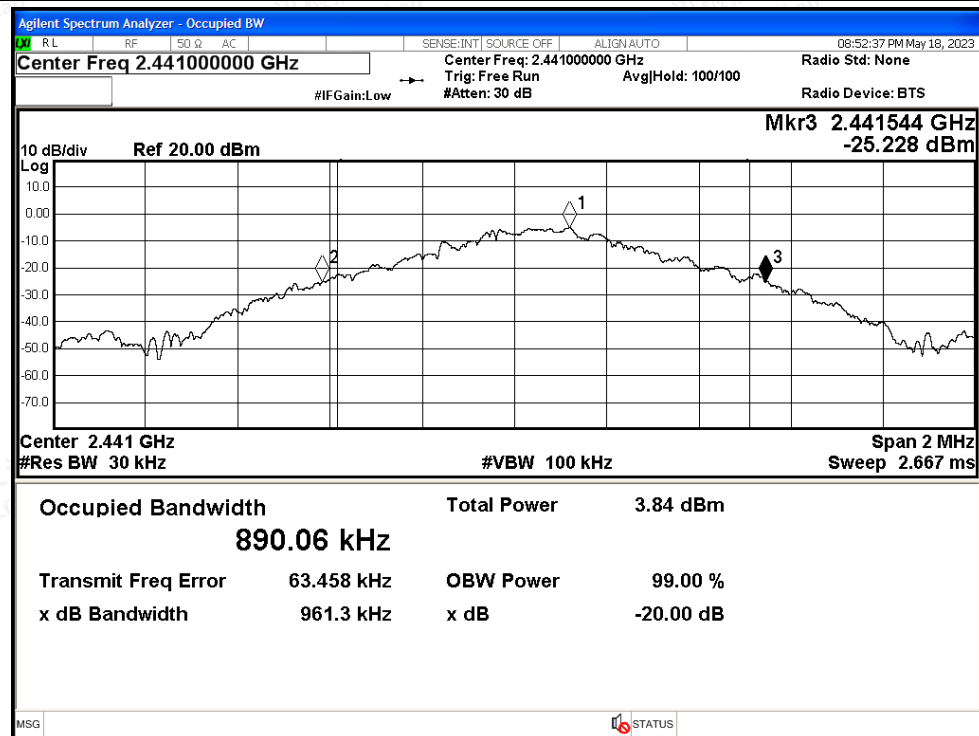


Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1

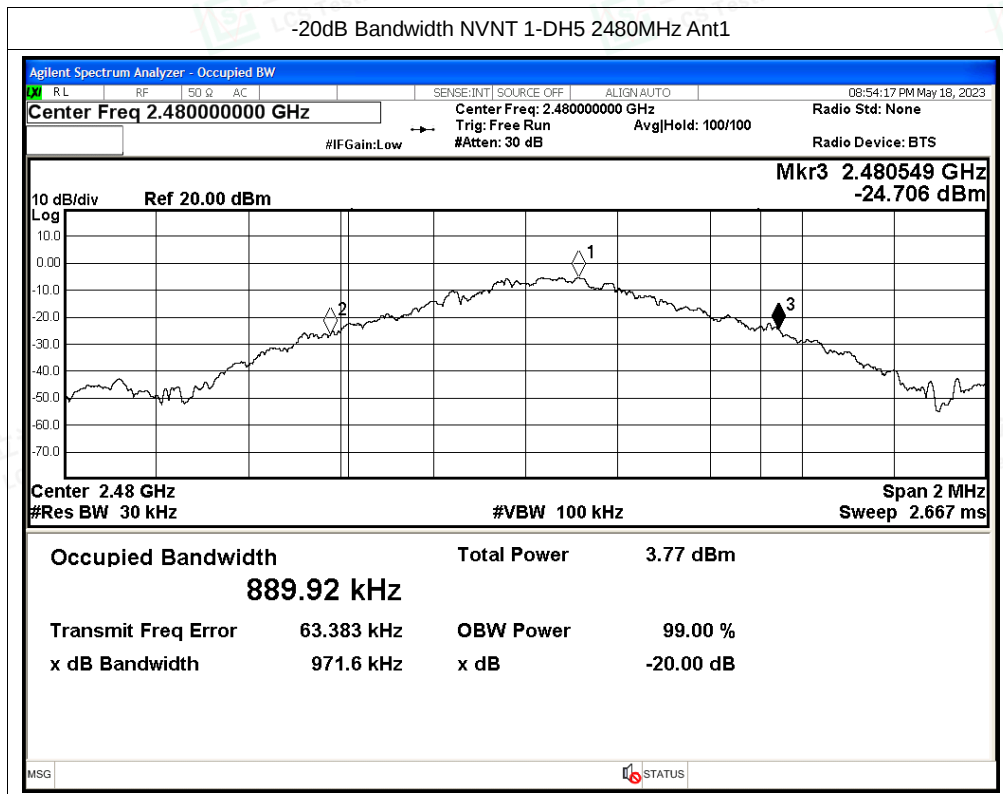


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A.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	-2.55	21	Pass
NVNT	1-DH5	2441	Ant1	-2.35	21	Pass
NVNT	1-DH5	2480	Ant1	-2.46	21	Pass



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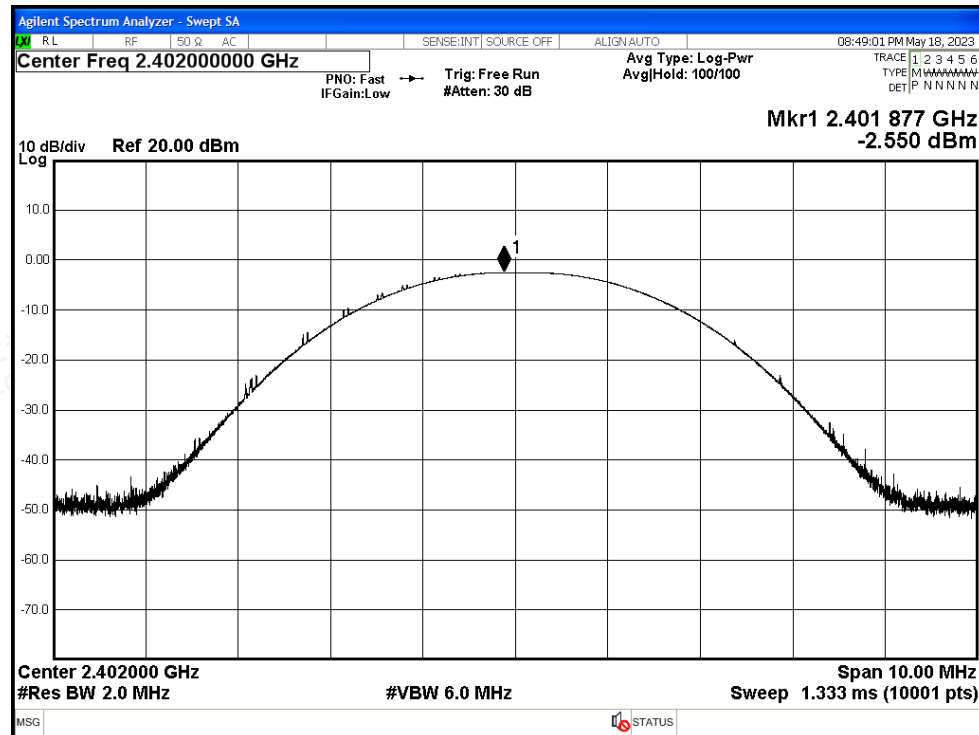
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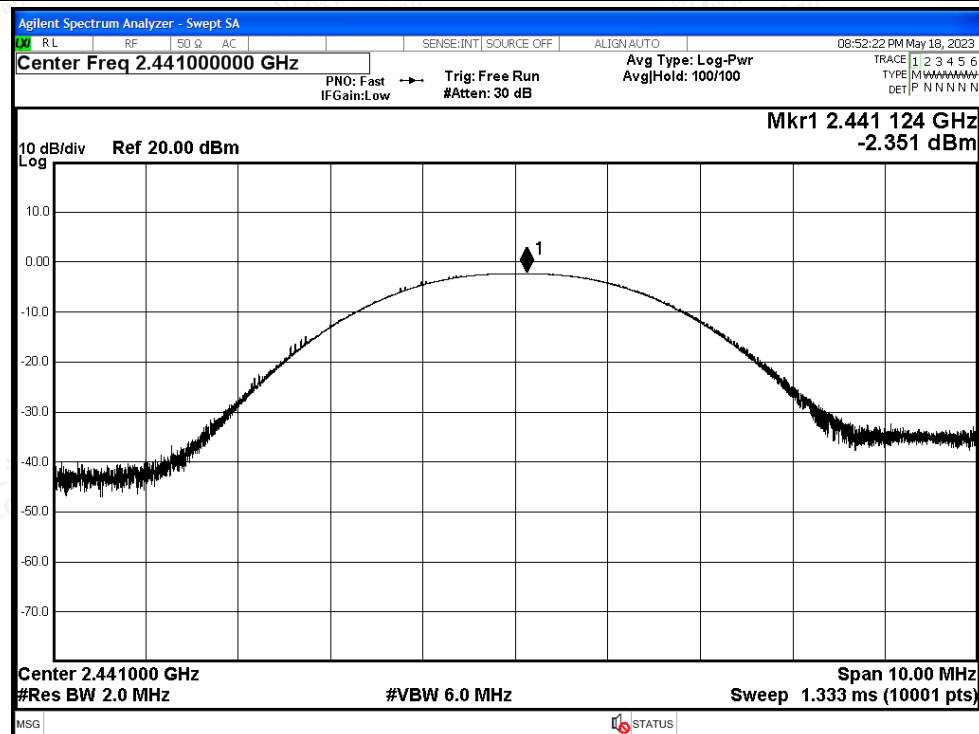


Test Graphs

Power NVNT 1-DH5 2402MHz Ant1



Power NVNT 1-DH5 2441MHz Ant1

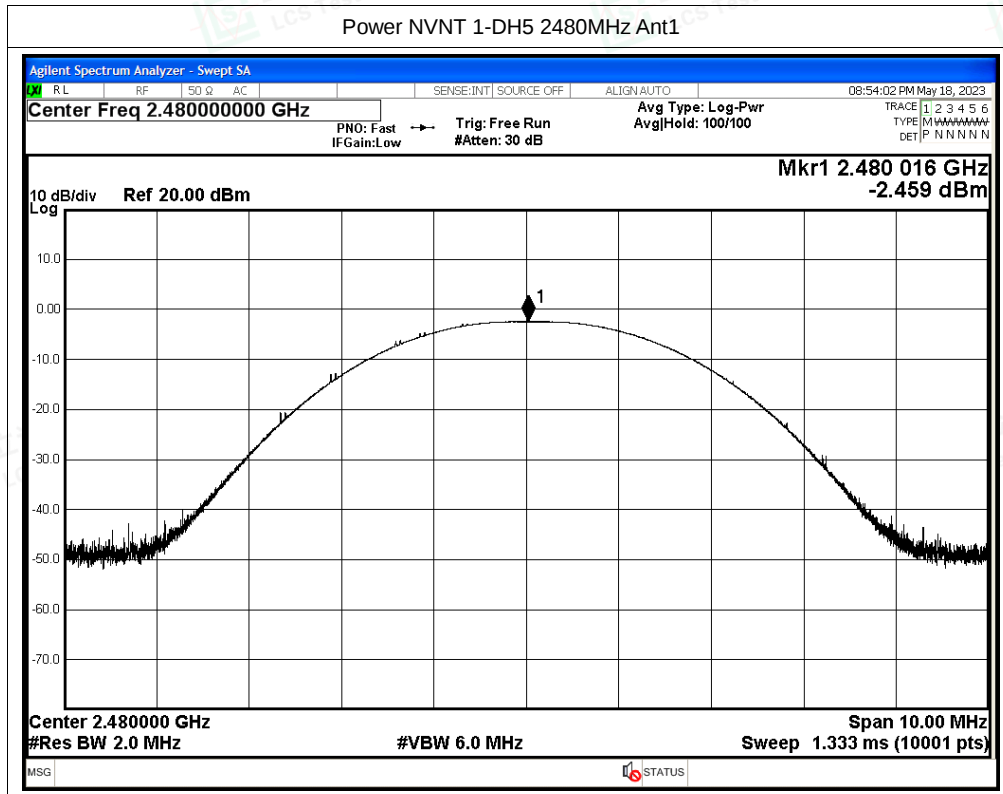


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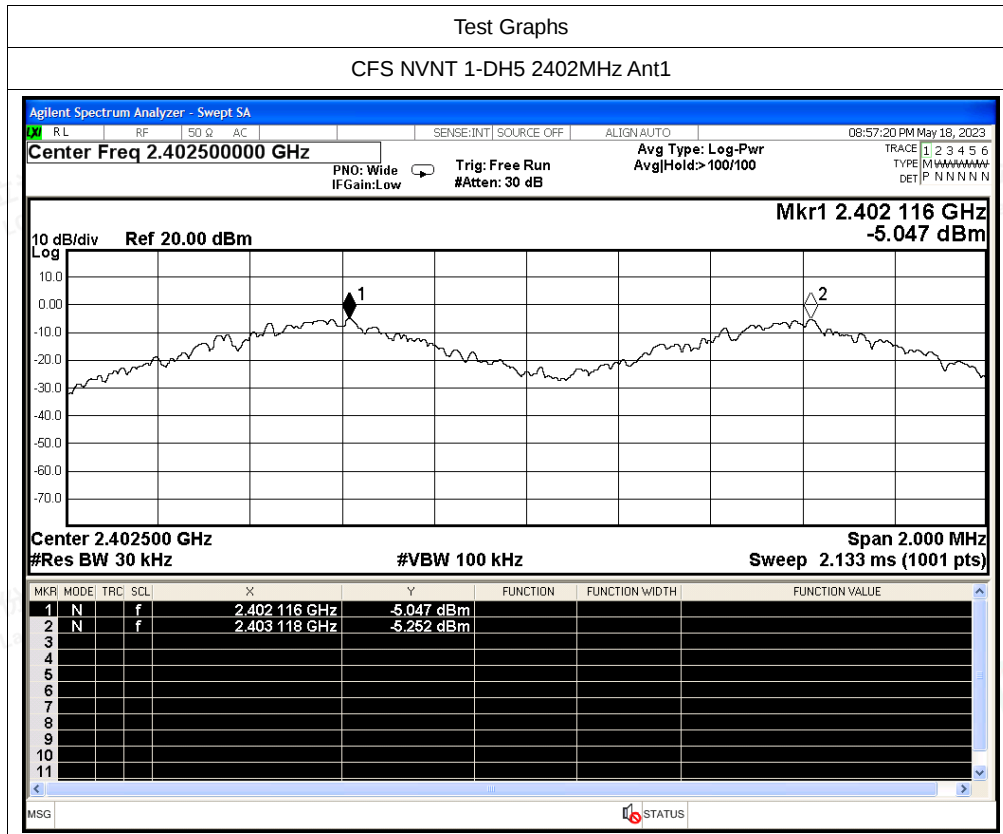
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A.3 Carrier Frequencies Separation

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2402.116	2403.118	1.002	0.631	Pass



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A.4 Dwell Time

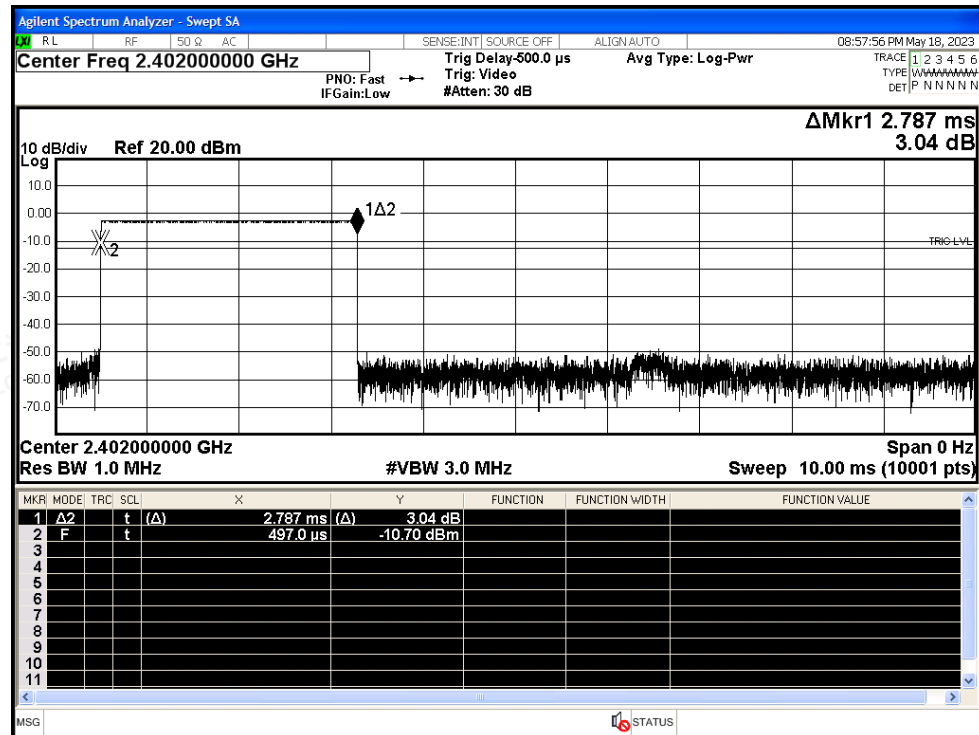
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH5	2402	Ant1	2.787	309.357	111	31600	400	Pass



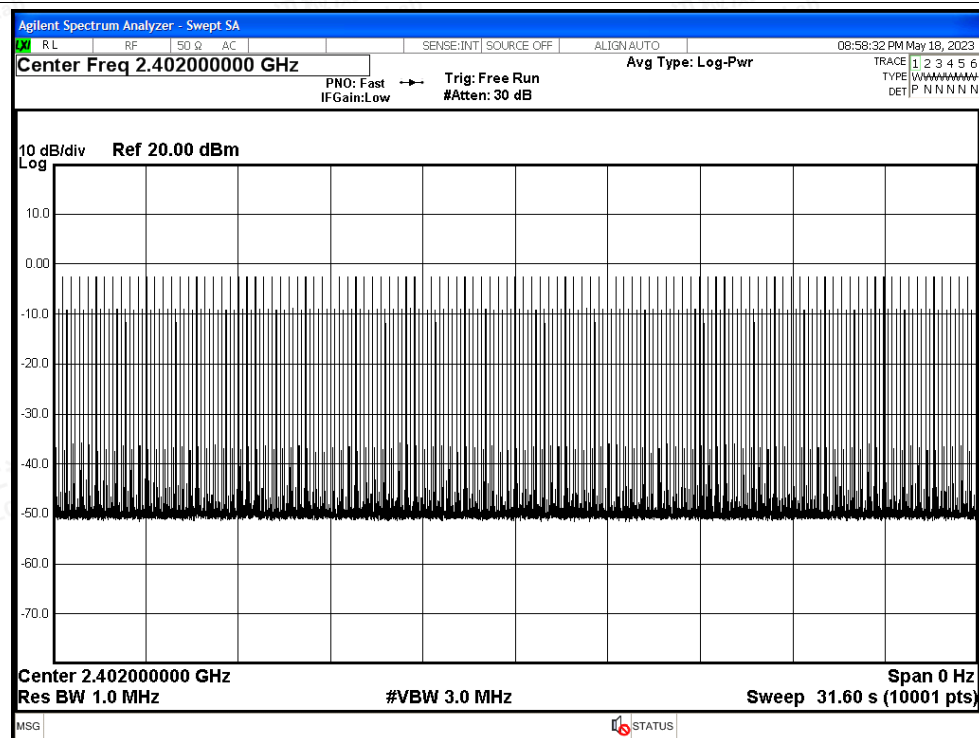


Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant1 One Burst



Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated



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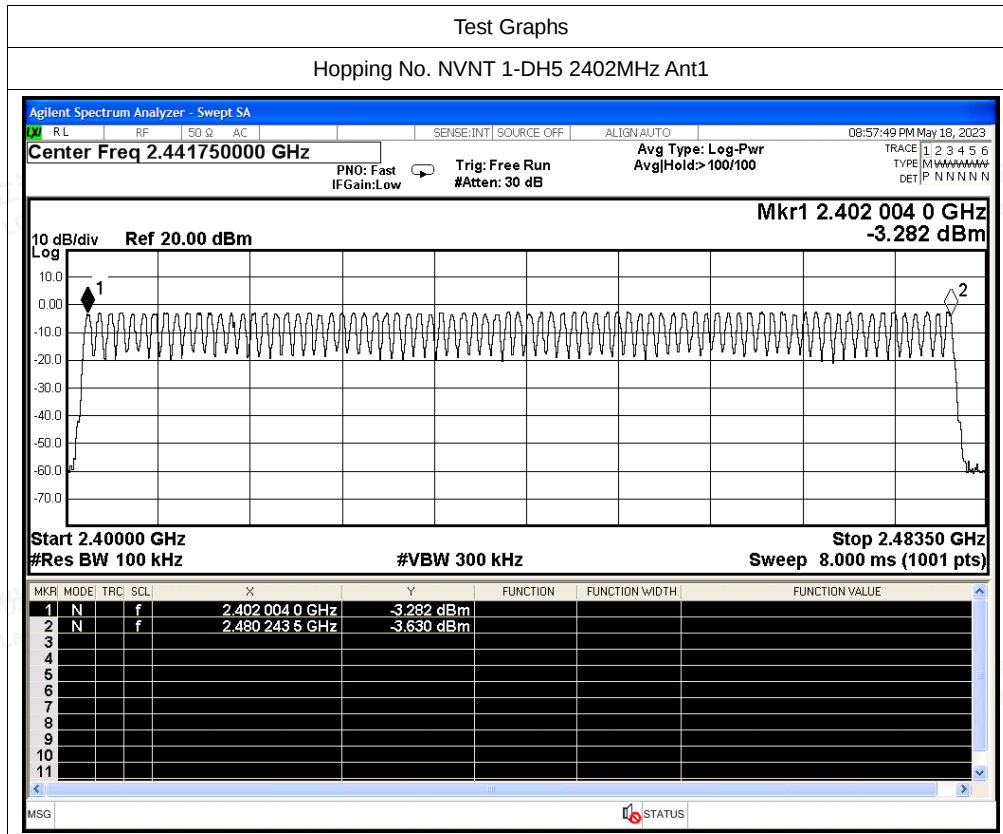
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A.5 Number of Hopping Channel

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



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A.6 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-51.45	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-54.48	-20	Pass



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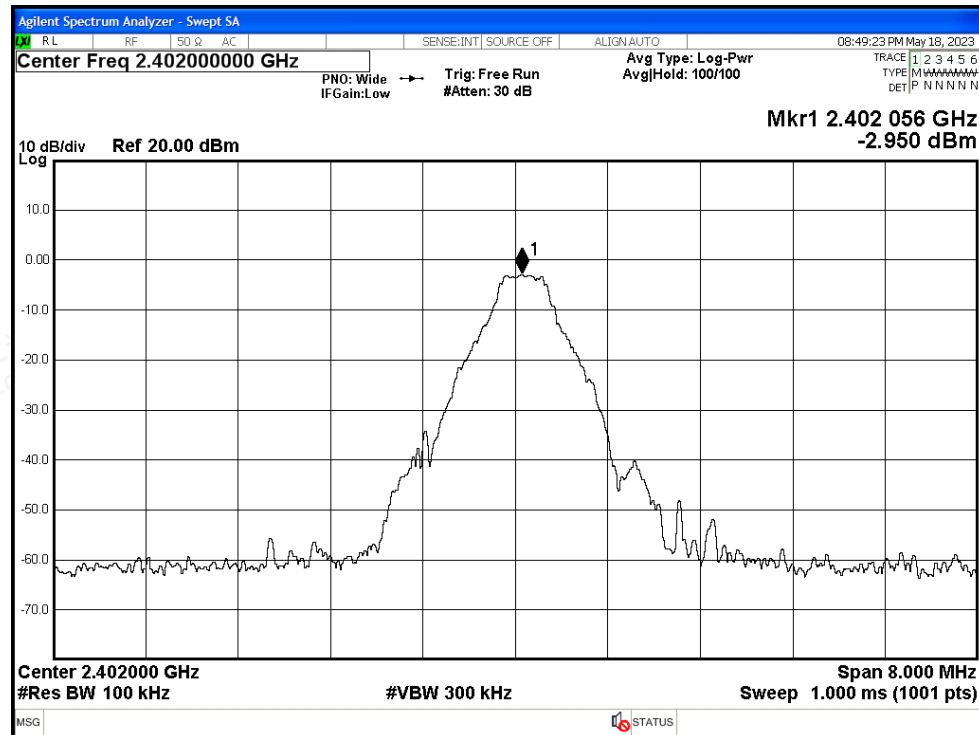
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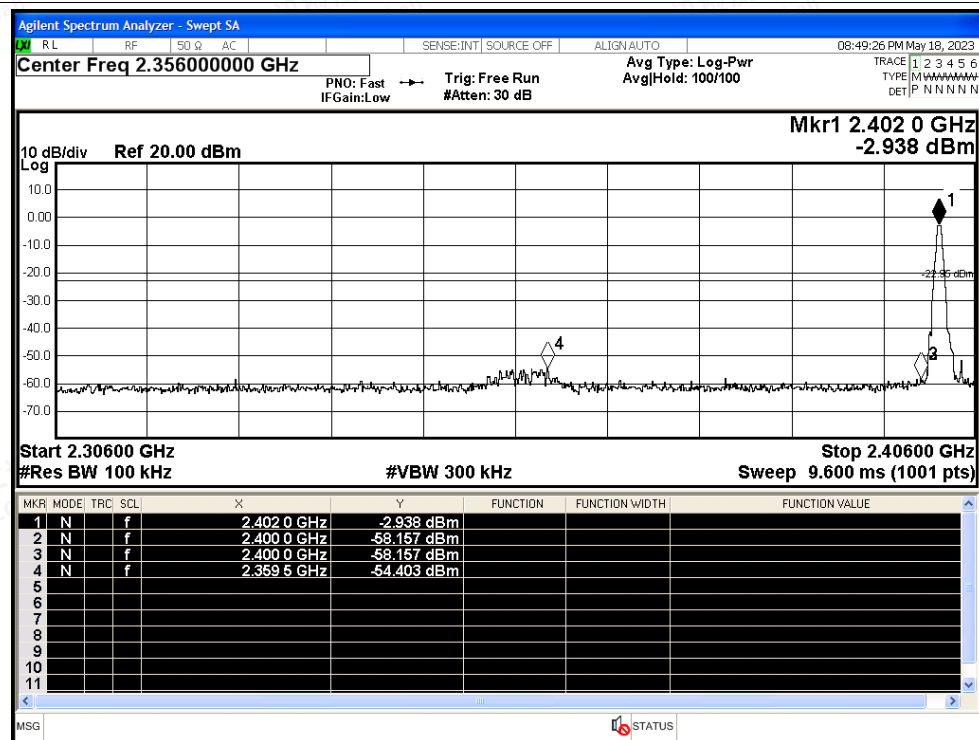


Test Graphs

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



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



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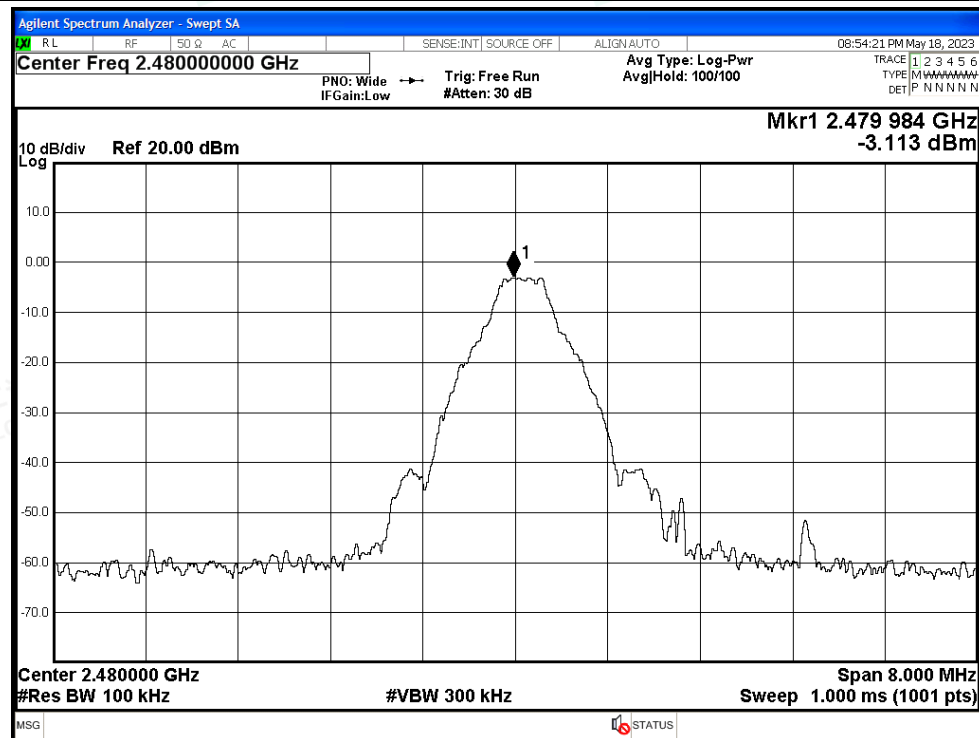
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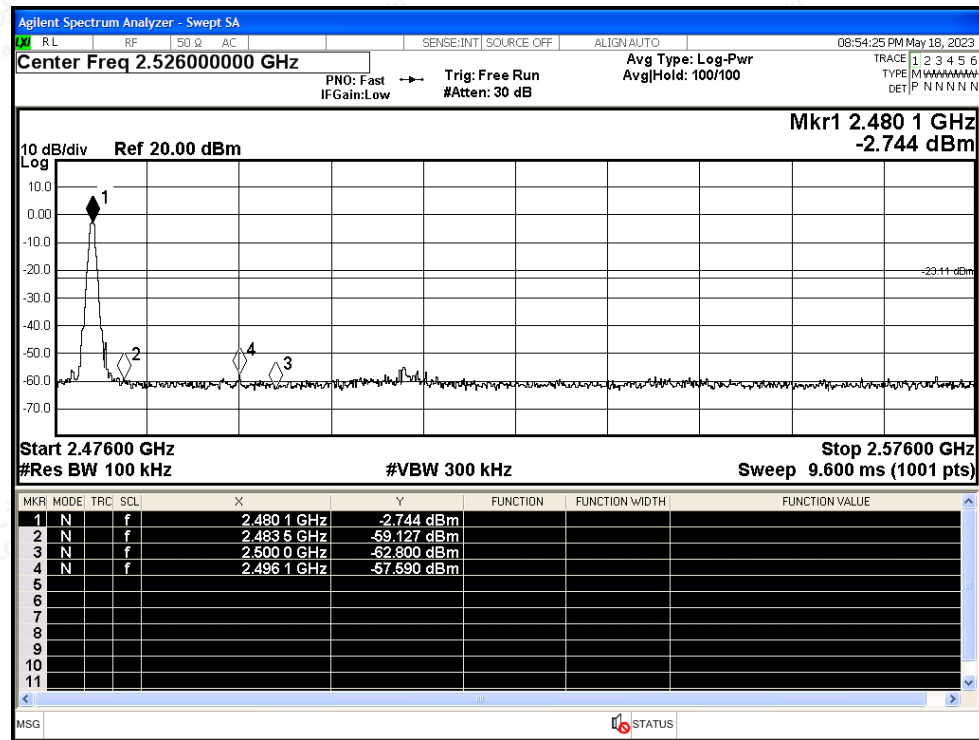
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Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref



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



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(Hopping)

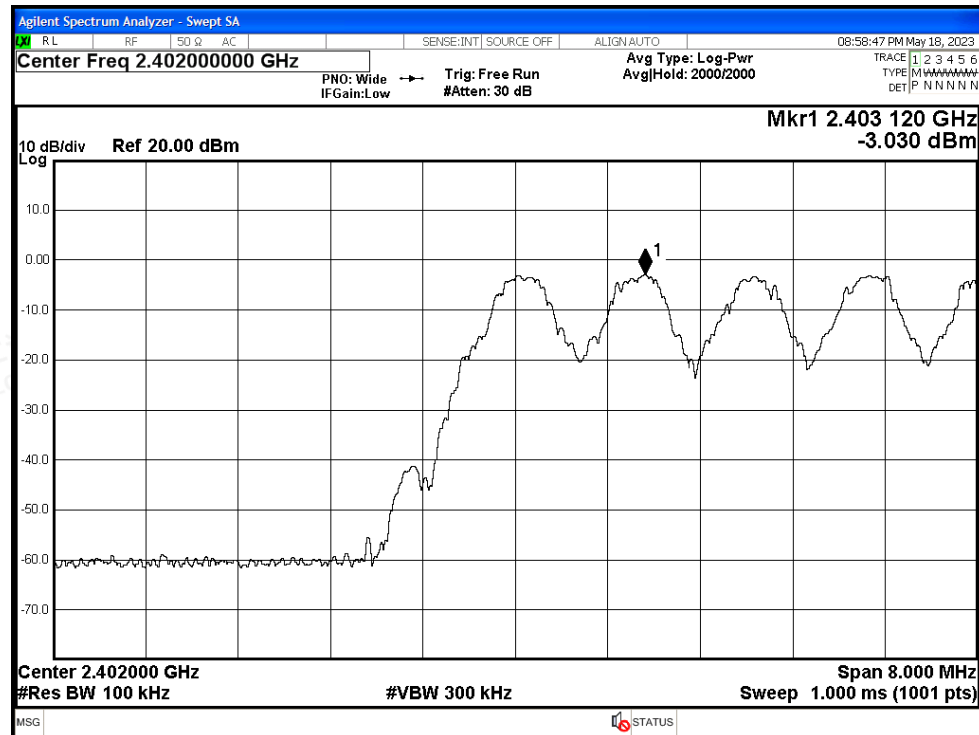
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-53.78	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-54.22	-20	Pass



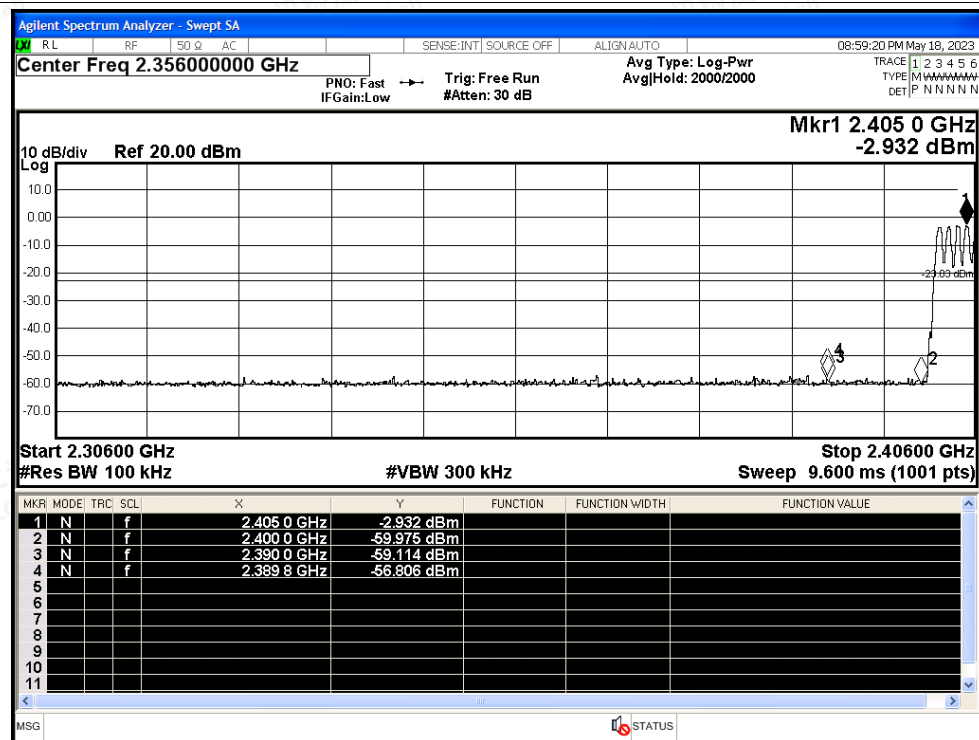


Test Graphs

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



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

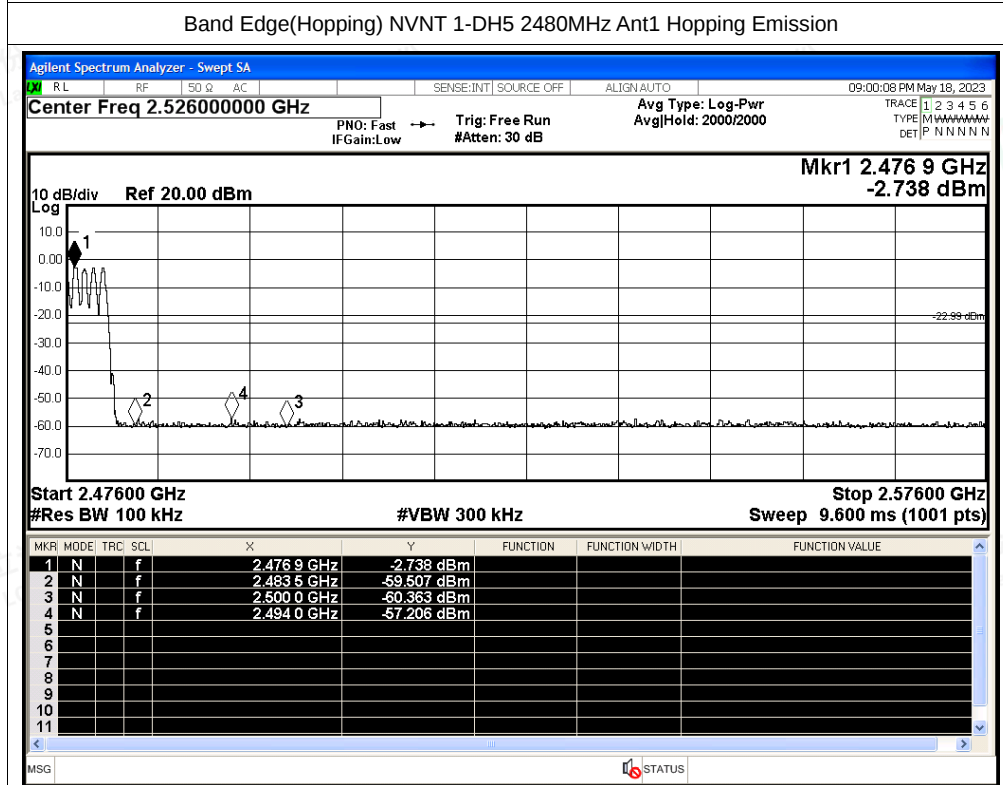
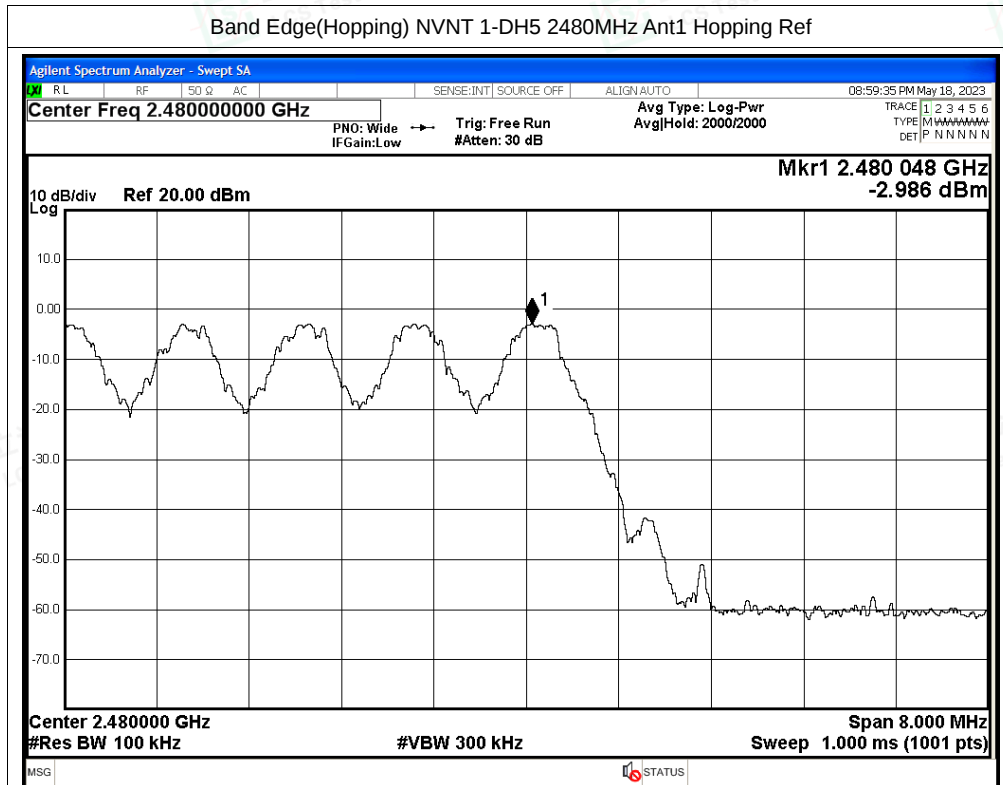


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A.7 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-43.22	-20	Pass
NVNT	1-DH5	2441	Ant1	-46.15	-20	Pass
NVNT	1-DH5	2480	Ant1	-47.45	-20	Pass



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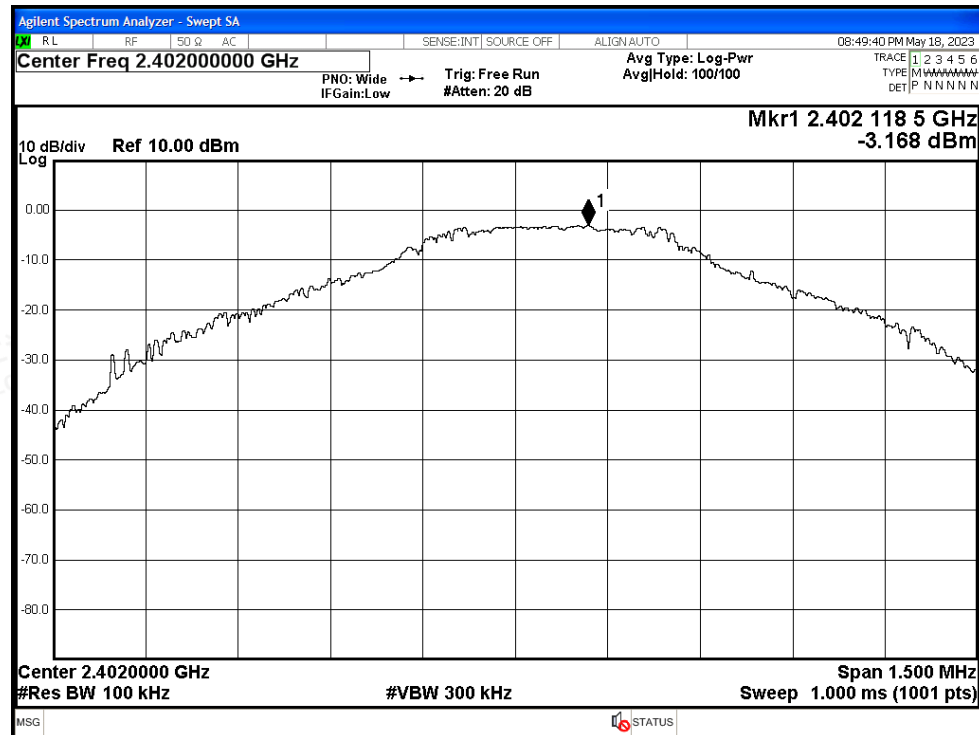
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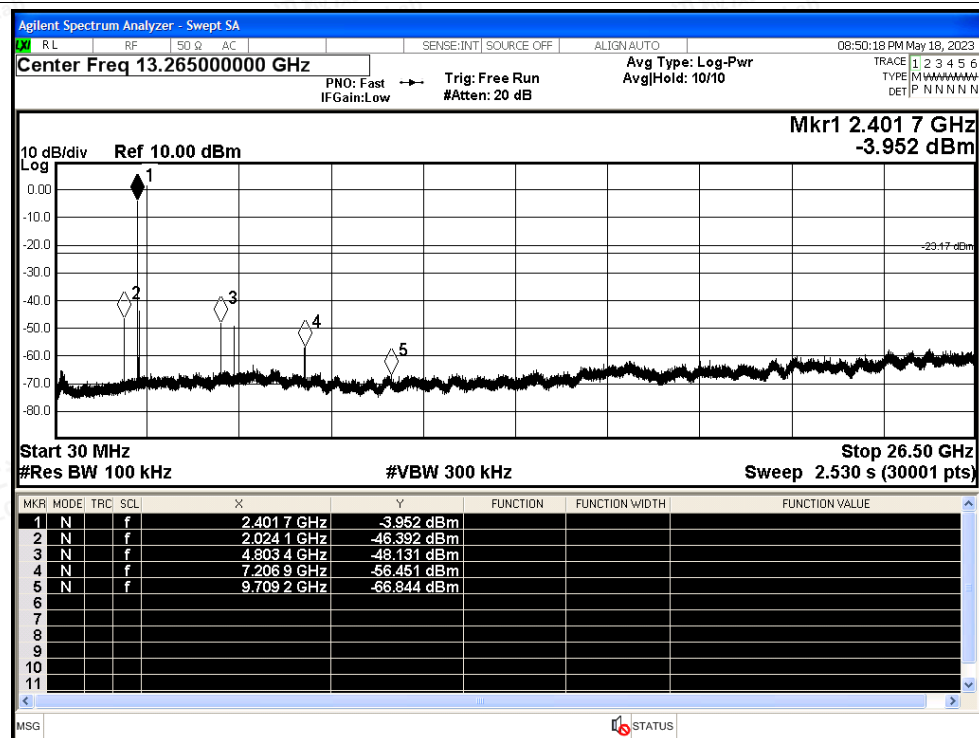


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission



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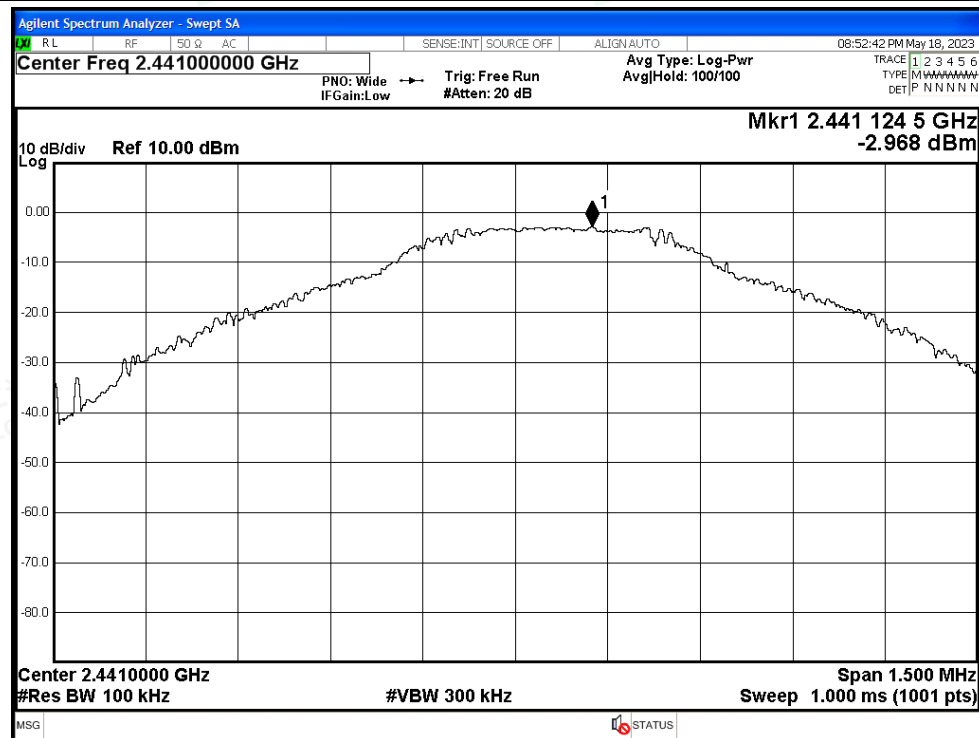
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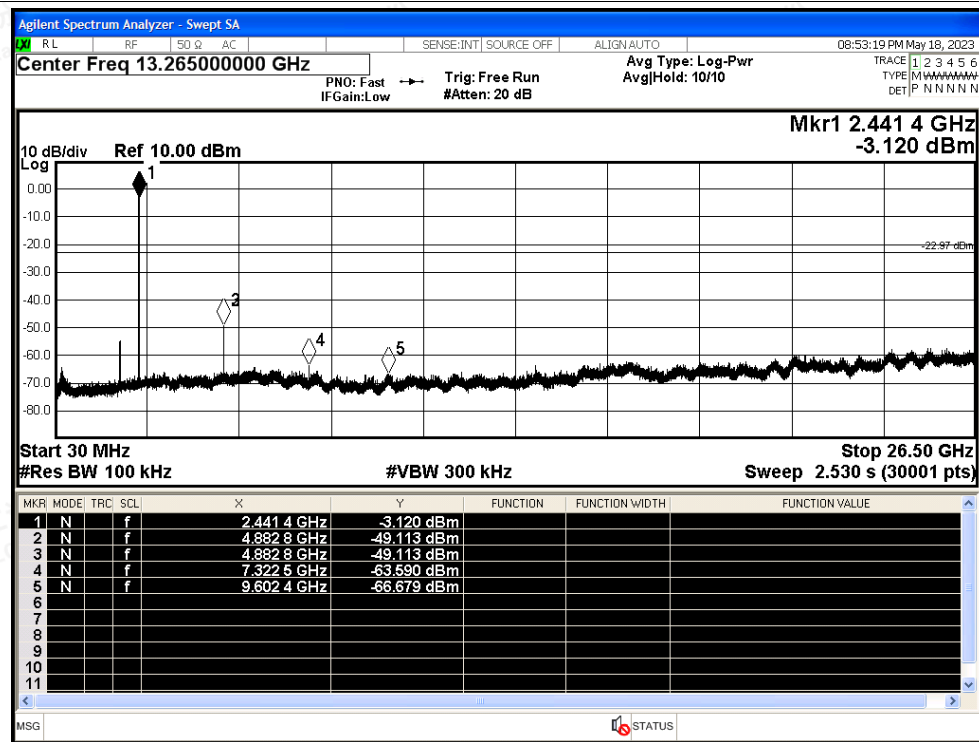
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Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission



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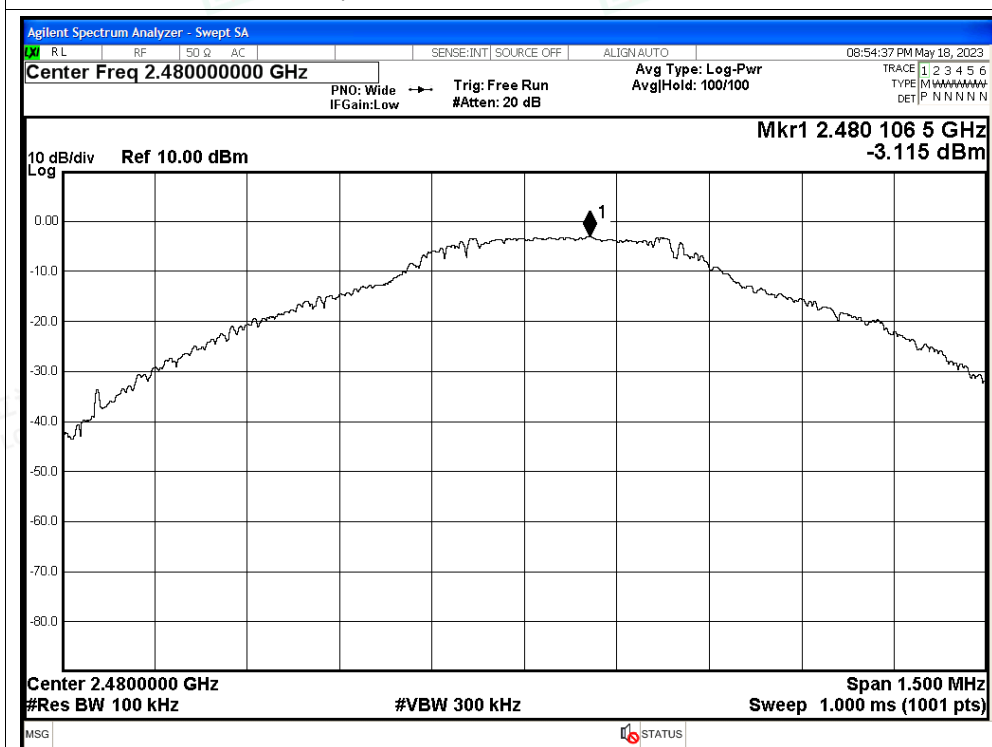
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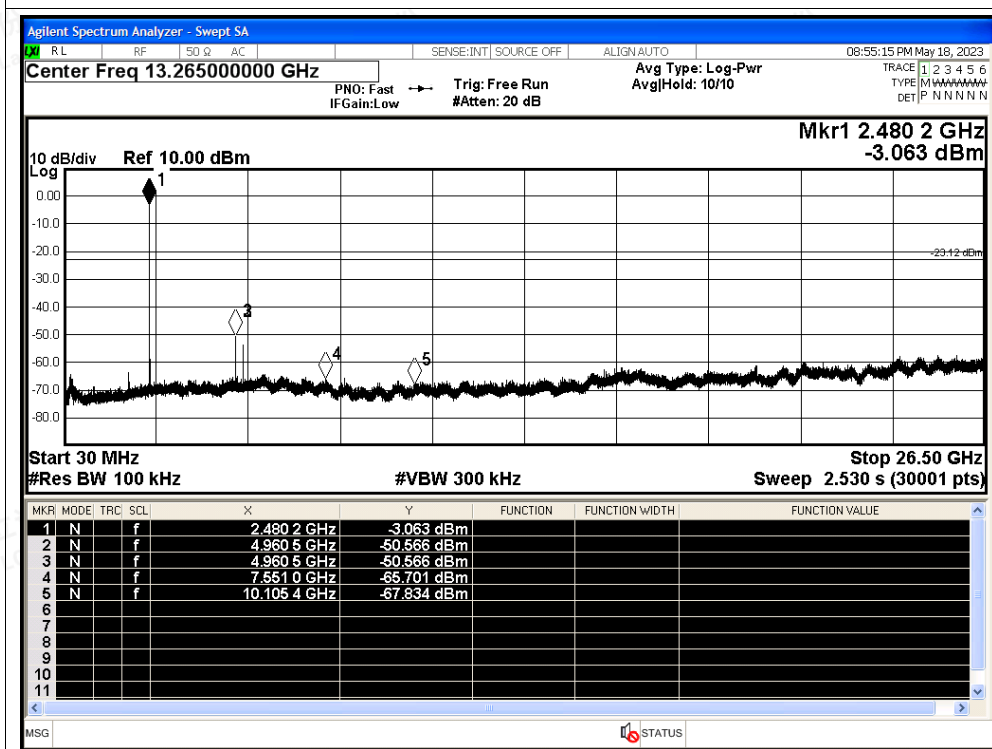
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Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission



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A.8 Restrict Band

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-52.19	2.34	45.38	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-62.05	2.34	35.52	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2355.984	-46.59	2.34	50.98	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2352.912	-57.23	2.34	40.34	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-52.33	2.34	45.24	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-61.62	2.34	35.95	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-51.08	2.34	46.49	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-60.55	2.34	37.02	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2485.24	-49.11	2.34	48.46	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.512	-60.55	2.34	37.02	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-51.2	2.34	46.37	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-61.7	2.34	35.87	Average	54	Pass



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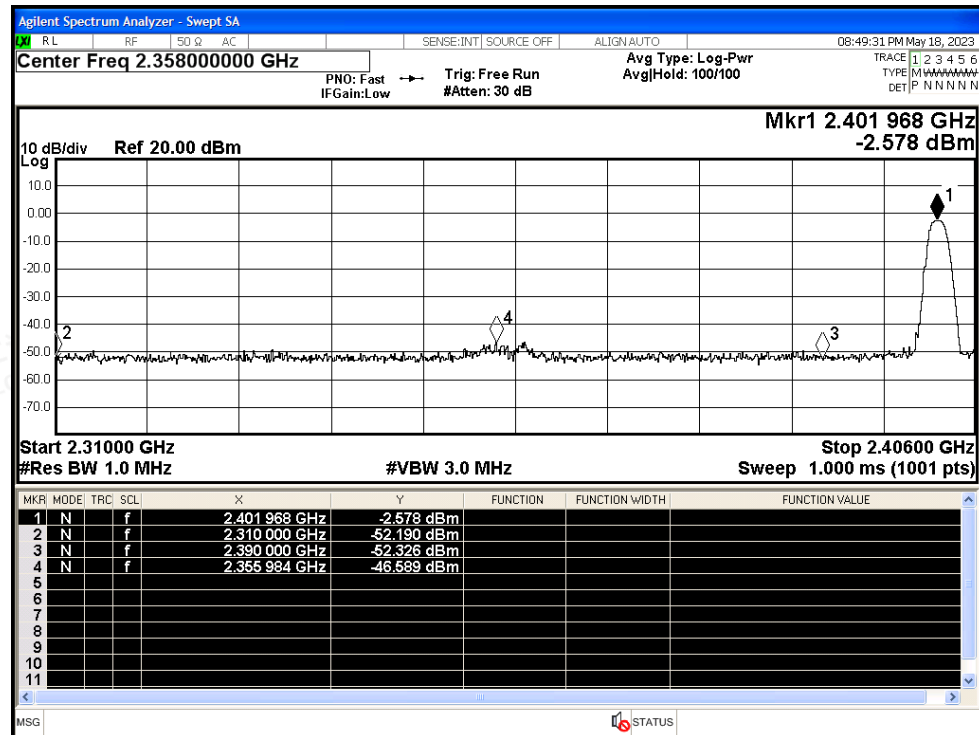
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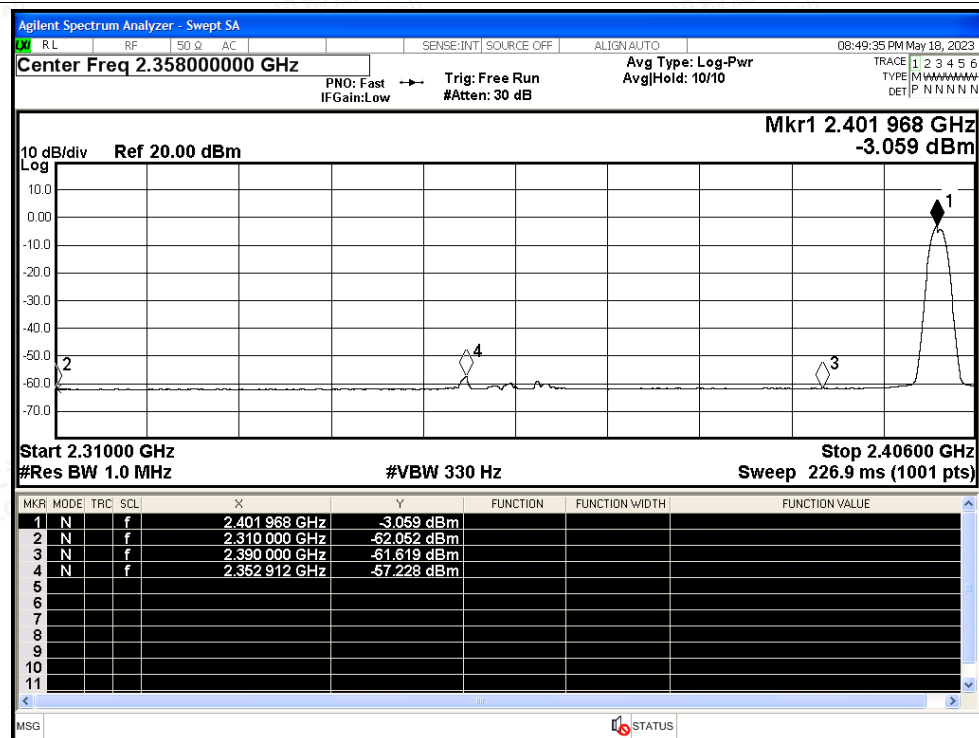


Test Graphs

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



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



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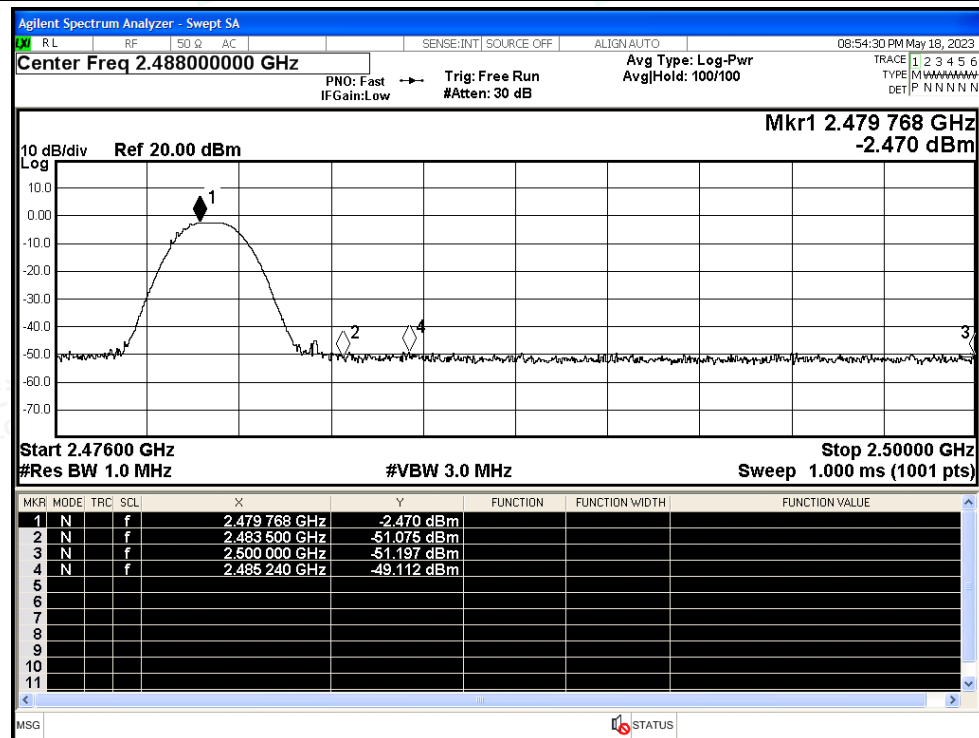
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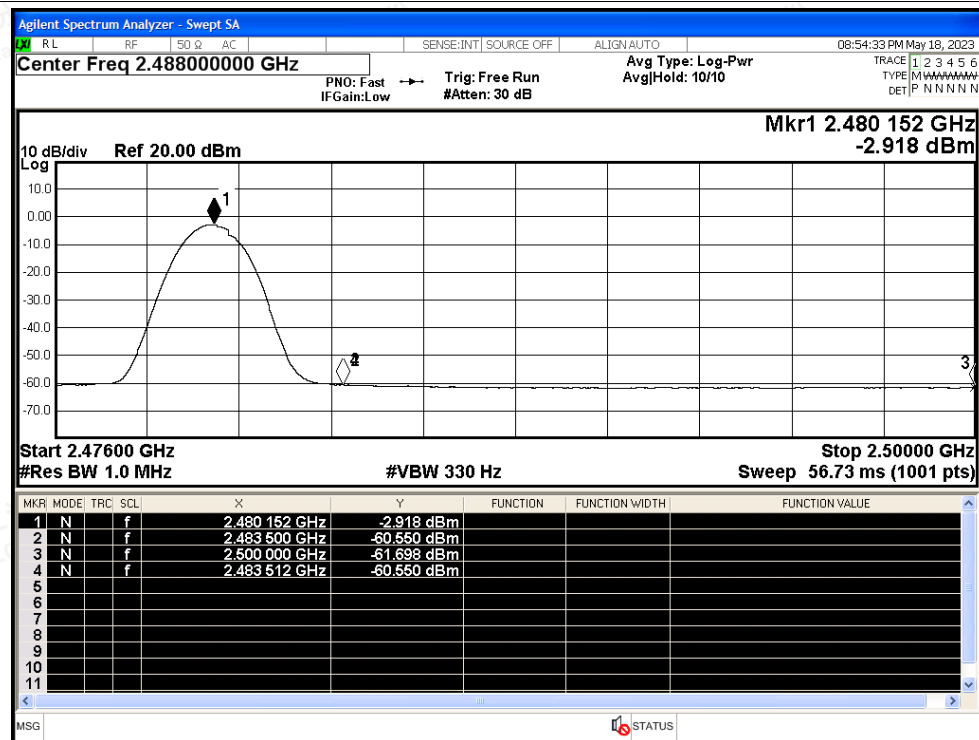
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Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Peak



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



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