

FCC Appendix RF Test Data for 2.4G

FCC ID : 2A2P5-OMR606

Company : Acer Gadget Inc.

EUT : Tri-Mode Gaming Mouse

Model Number : OMR606

Report No. : CTA26062701702

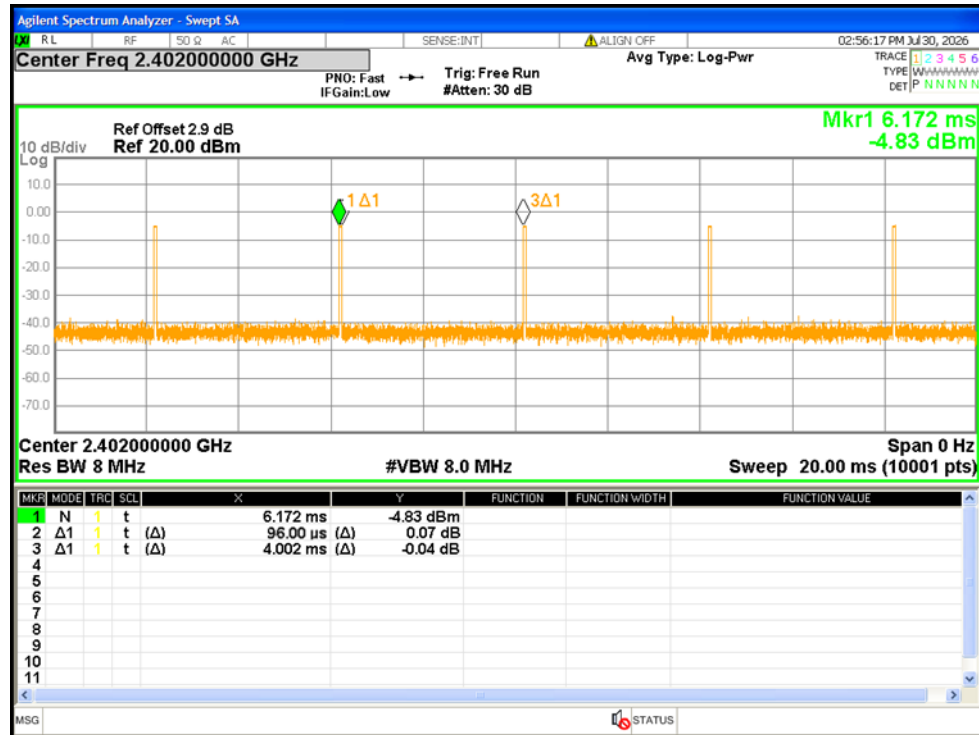
Reviewed By : Eric Wang

Duty Cycle

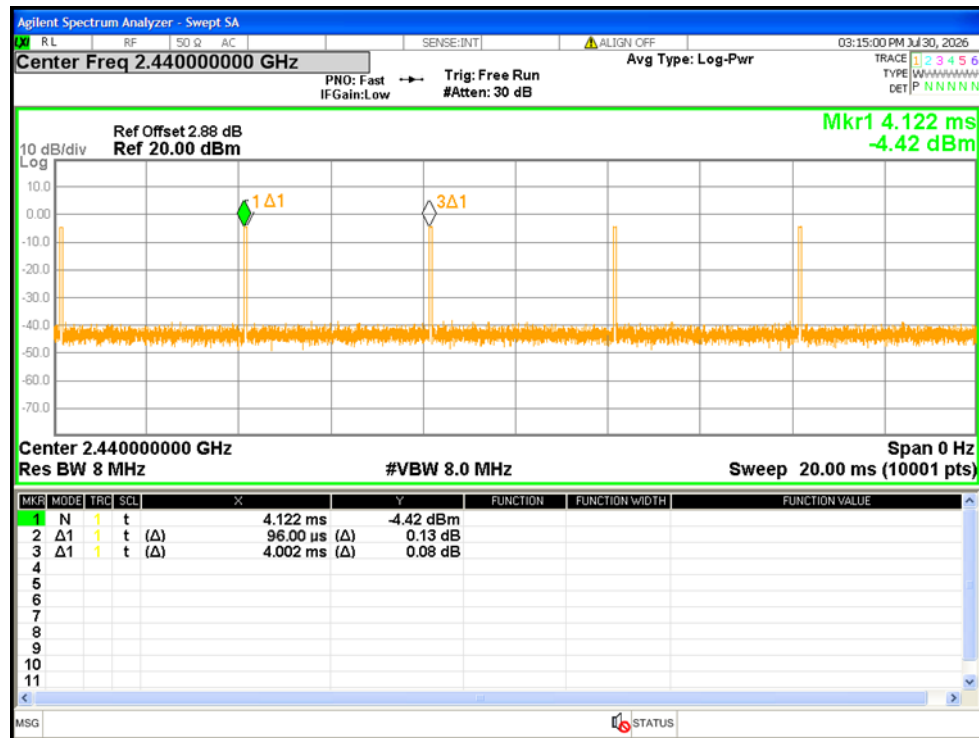
Condition	Mode	Frequency (MHz)	On Time (ms)	Period (ms)	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	2.4G	2402	0.096	4.002	2.4	16.20	17.86
NVNT	2.4G	2440	0.096	4.002	2.4	16.20	17.86
NVNT	2.4G	2480	0.096	4.002	2.4	16.20	17.86

Test Graphs

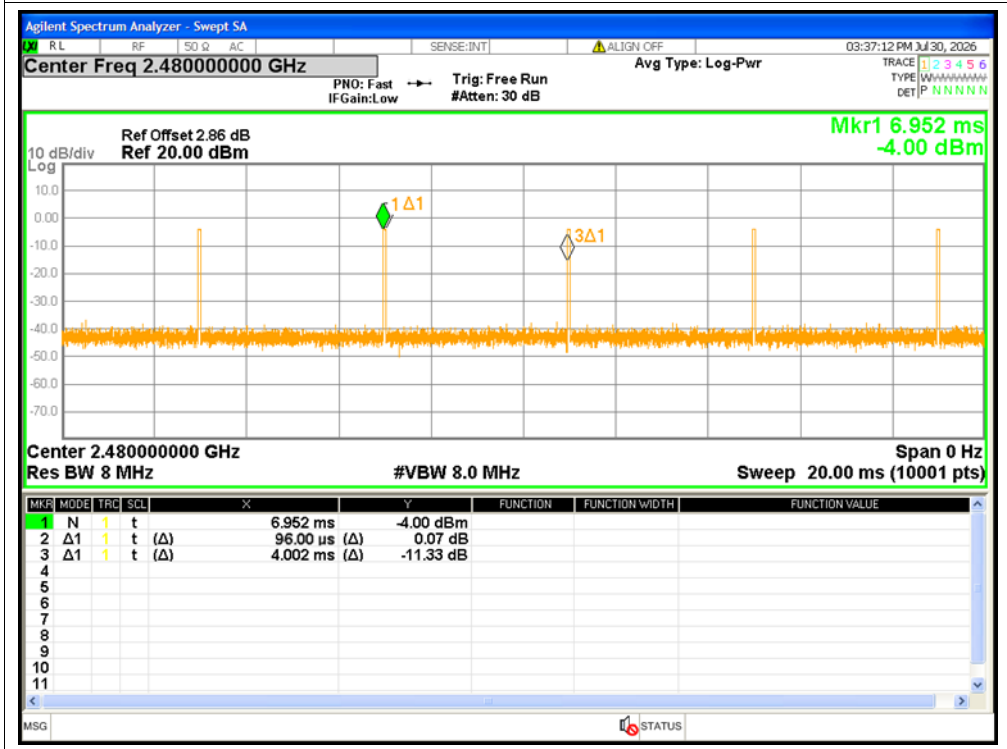
Duty Cycle NVNT 2.4G 2402MHz



Duty Cycle NVNT 2.4G 2440MHz



Duty Cycle NVNT 2.4G 2480MHz



Maximum Peak Conducted Output Power

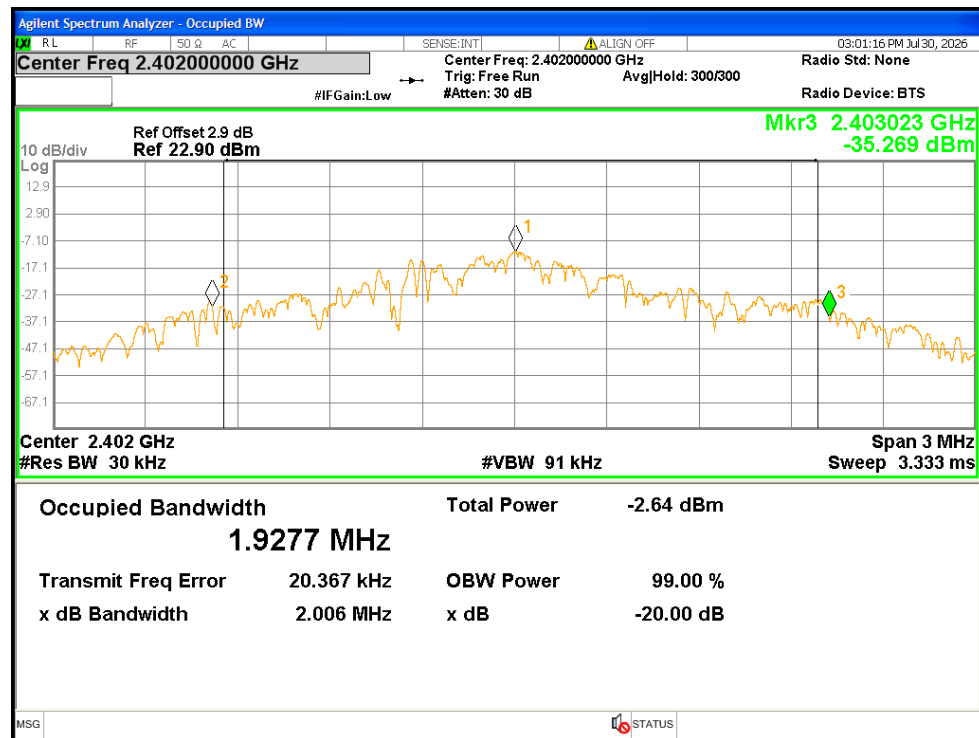
Condition	Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	2.4G	2402	-5.19	<=30	Pass
NVNT	2.4G	2440	-4.66	<=30	Pass
NVNT	2.4G	2480	-4.06	<=30	Pass

-20dB Bandwidth

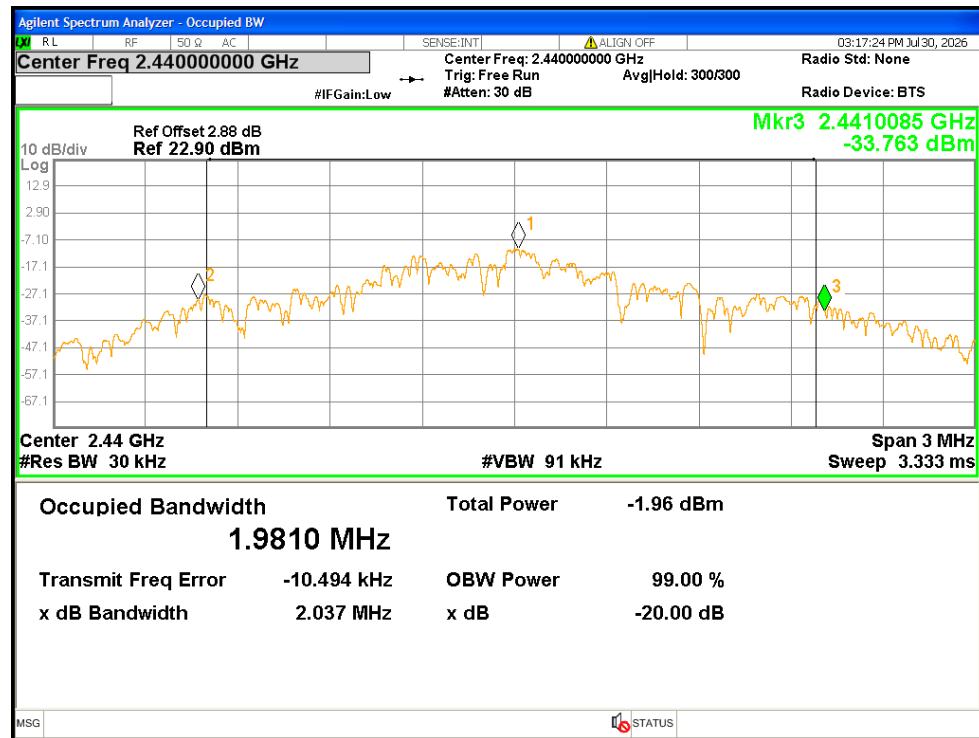
Condition	Mode	Frequency (MHz)	-20 dB Bandwidth (MHz)	Verdict
NVNT	2.4G	2402	2.006	Pass
NVNT	2.4G	2440	2.037	Pass
NVNT	2.4G	2480	2.053	Pass

Test Graphs

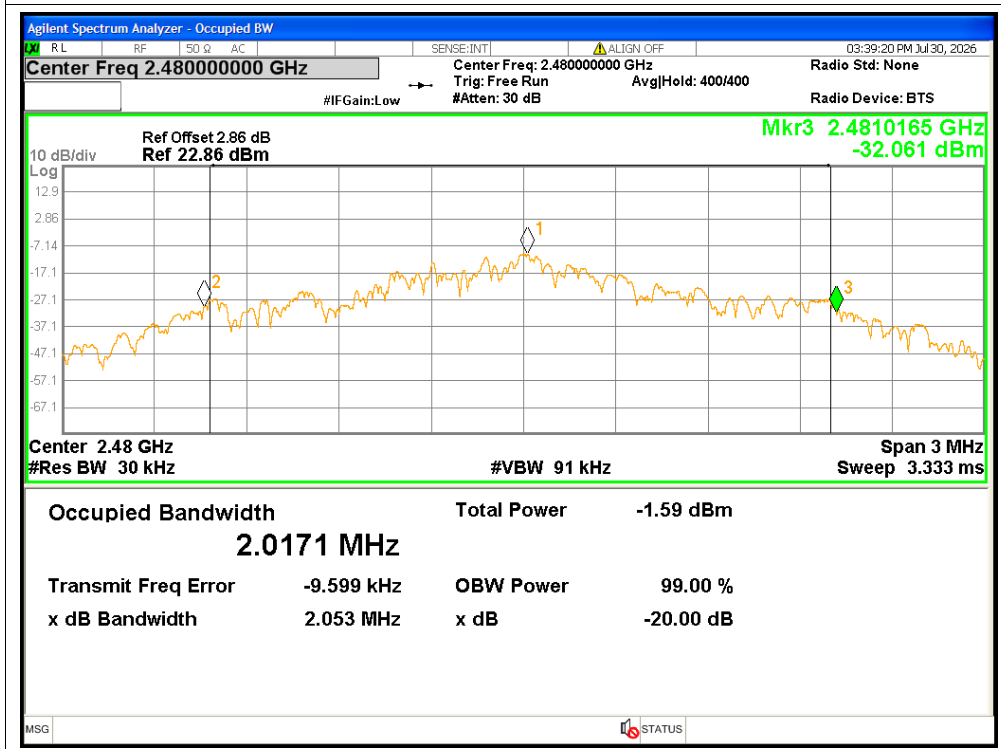
-20dB Bandwidth NVNT 2.4G 2402MHz



-20dB Bandwidth NVNT 2.4G 2440MHz



-20dB Bandwidth NVNT 2.4G 2480MHz

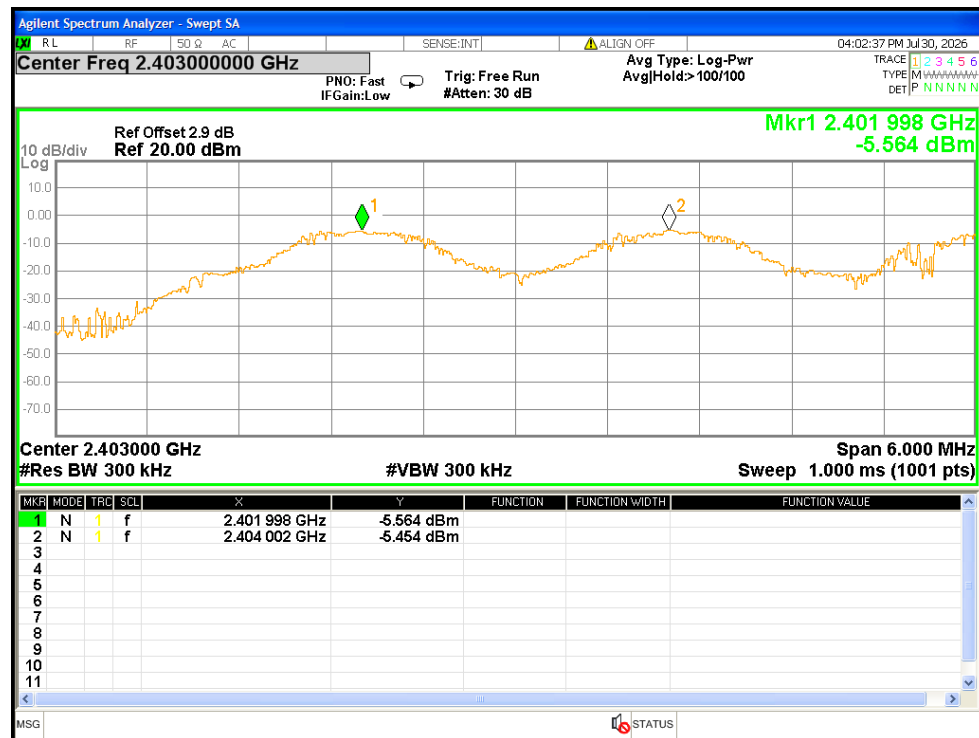


Carrier Frequencies Separation

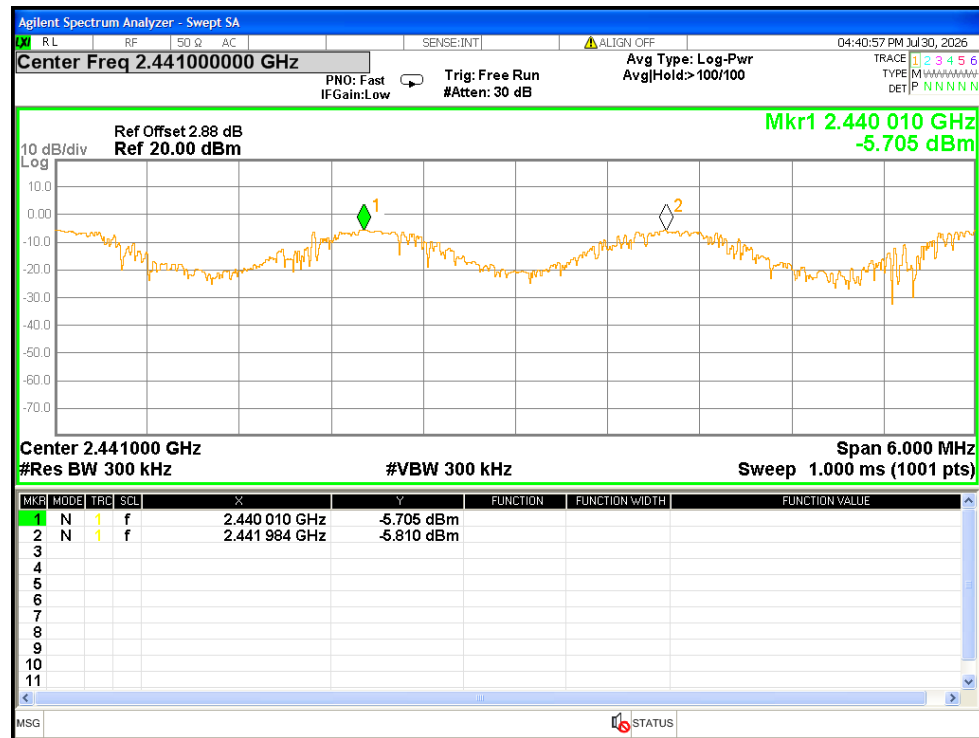
Condition	Mode	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	2.4G	2401.998	2404.002	2.004	≥ 1.337	Pass
NVNT	2.4G	2440.01	2441.984	1.974	≥ 1.358	Pass
NVNT	2.4G	2477.752	2480.002	2.25	≥ 1.369	Pass

Test Graphs

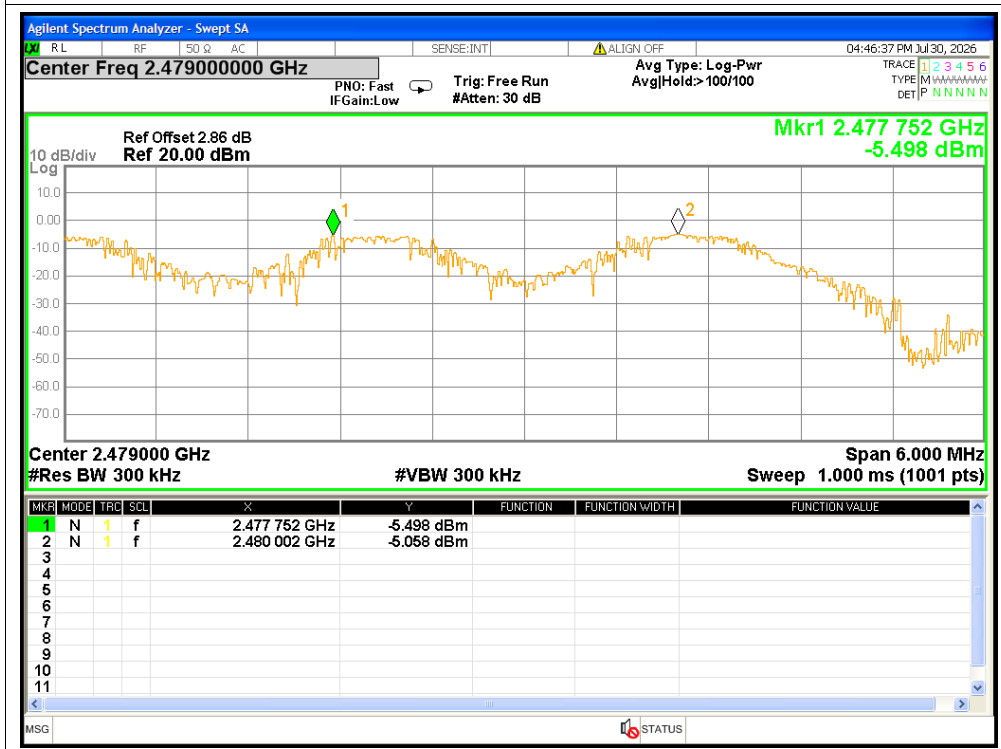
CFS NVNT 2.4G 2402MHz



CFS NVNT 2.4G 2440MHz



CFS NVNT 2.4G 2480MHz



Number of Hopping Channel

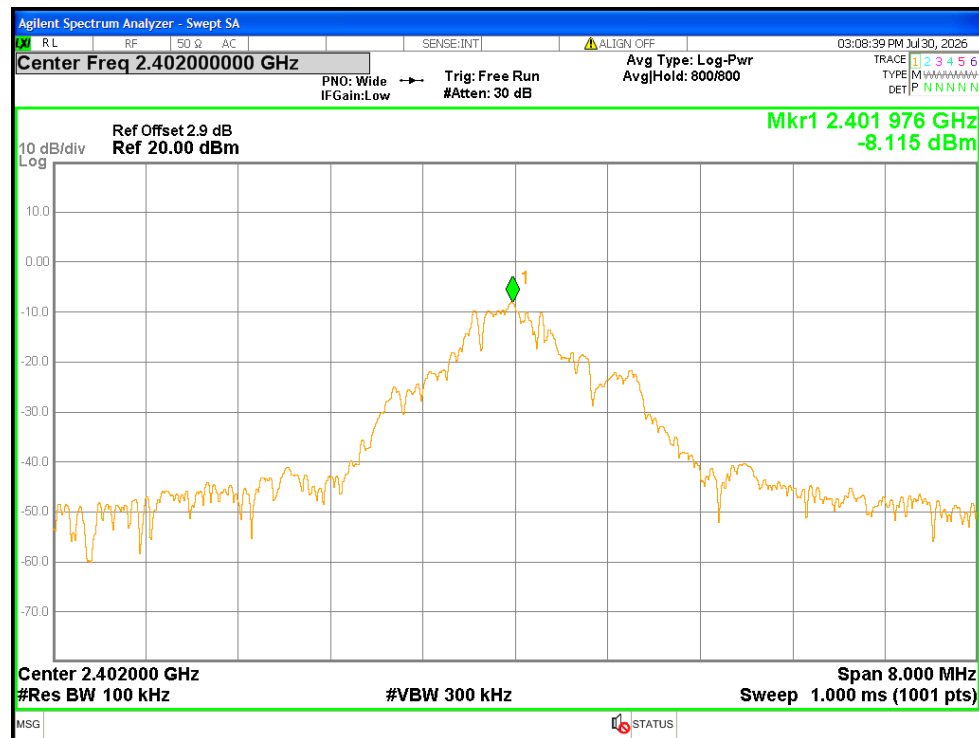
Condition	Mode	Hopping Number	Limit	Verdict
NVNT	2.4G	40	≥ 15	Pass

Band Edge

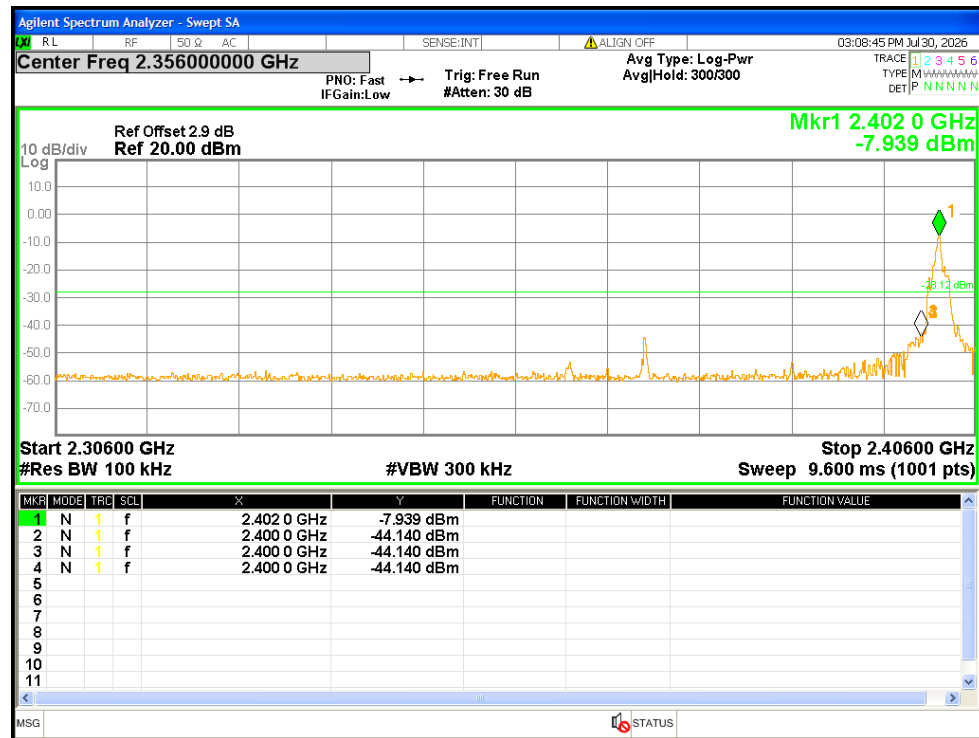
Condition	Mode	Frequency (MHz)	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	2.4G	2402	No-Hopping	-36.03	<=-20	Pass
NVNT	2.4G	2480	No-Hopping	-40.42	<=-20	Pass

Test Graphs

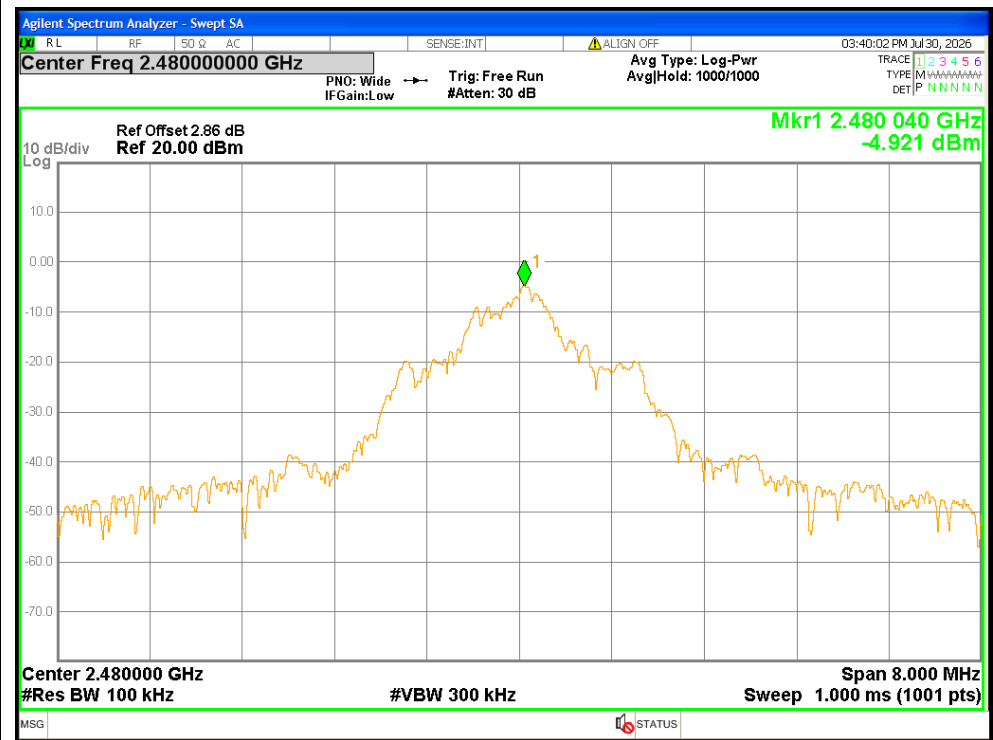
Band Edge NVNT 2.4G 2402MHz No-Hopping Ref



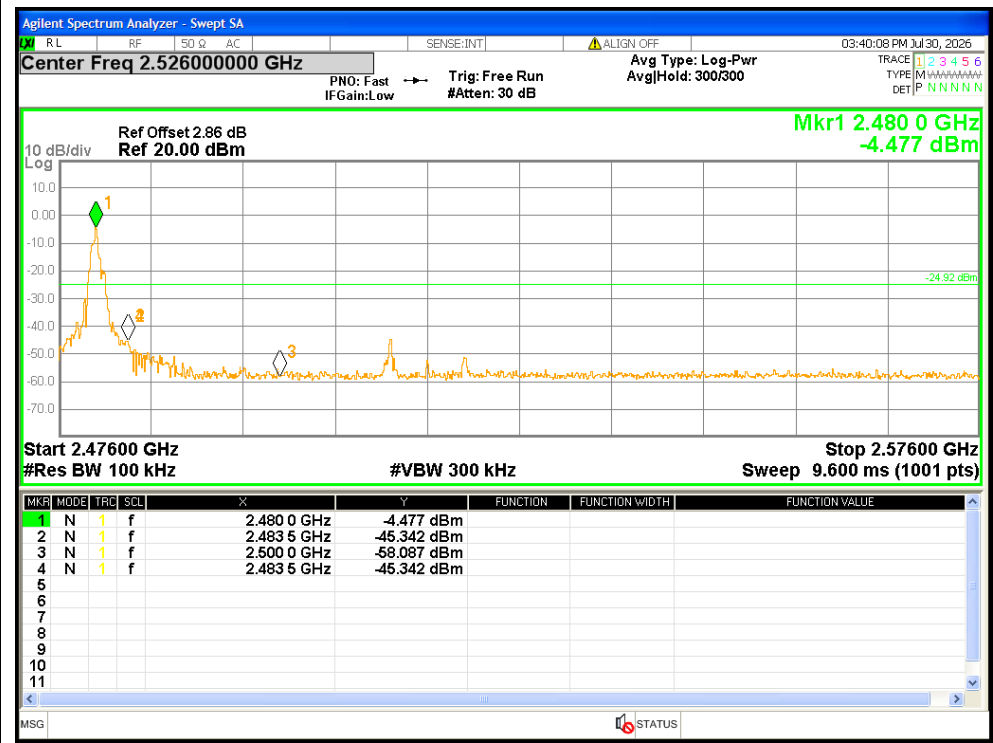
Band Edge NVNT 2.4G 2402MHz No-Hopping Emission



Band Edge NVNT 2.4G 2480MHz No-Hopping Ref



Band Edge NVNT 2.4G 2480MHz No-Hopping Emission

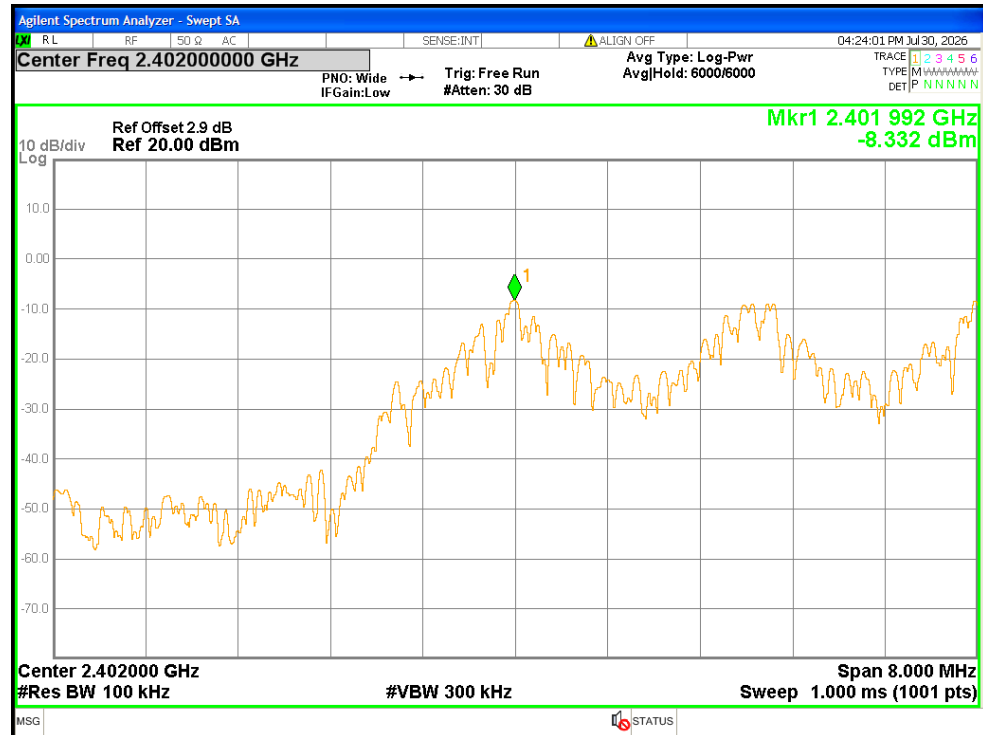


Band Edge(Hopping)

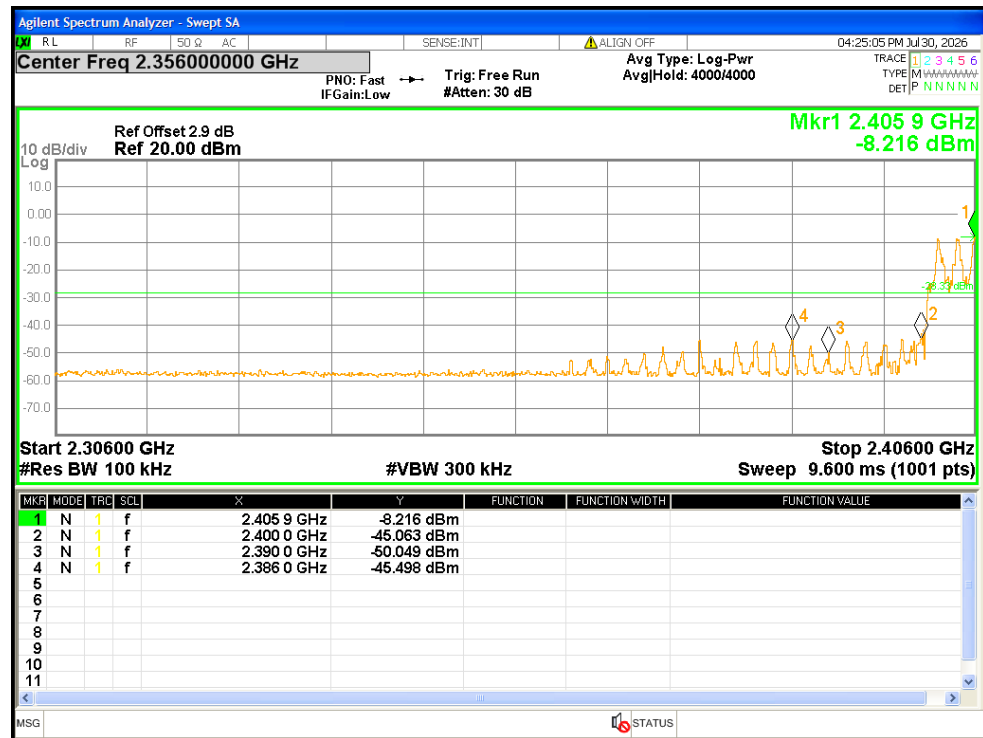
Condition	Mode	Frequency (MHz)	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	2.4G	2402	Hopping	-37.16	<=-20	Pass
NVNT	2.4G	2480	Hopping	-39.8	<=-20	Pass

Test Graphs

Band Edge(Hopping) NVNT 2.4G 2402MHz Hopping Ref



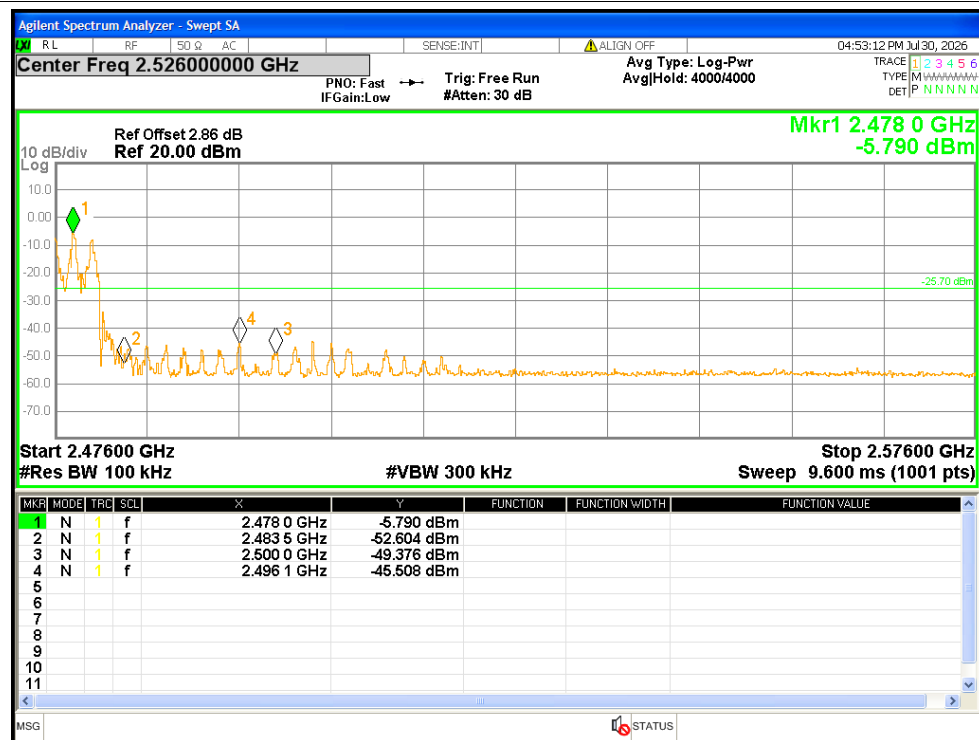
Band Edge(Hopping) NVNT 2.4G 2402MHz Hopping Emission



Band Edge(Hopping) NVNT 2.4G 2480MHz Hopping Ref



Band Edge(Hopping) NVNT 2.4G 2480MHz Hopping Emission



Conducted RF Spurious Emission

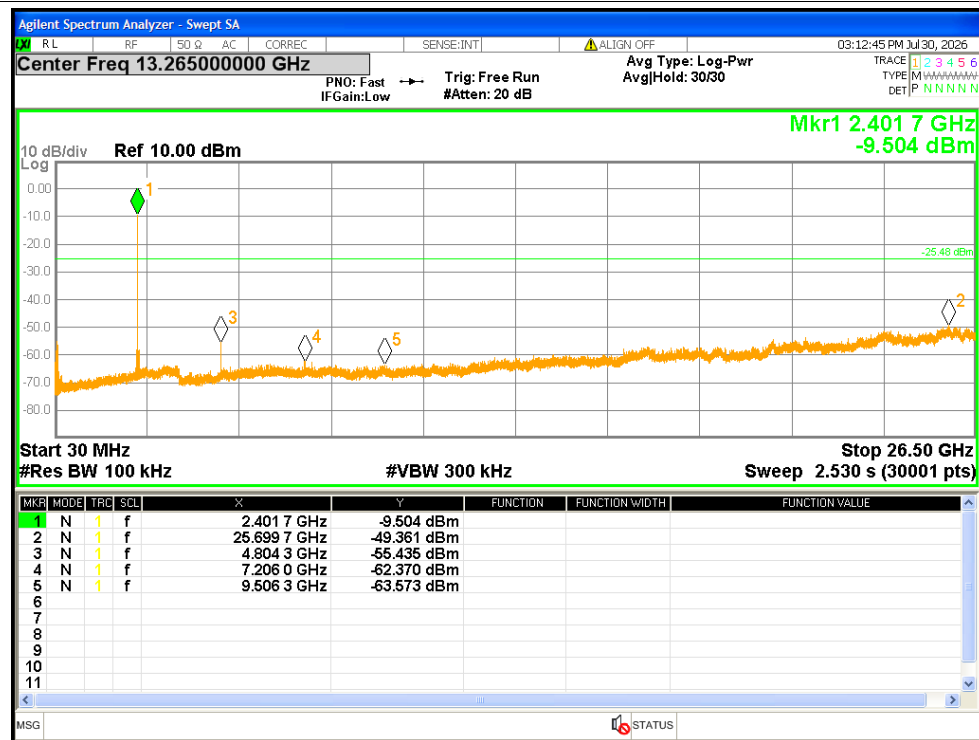
Condition	Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	2.4G	2402	-43.88	<=-20	Pass
NVNT	2.4G	2440	-42.57	<=-20	Pass
NVNT	2.4G	2480	-43	<=-20	Pass

Test Graphs

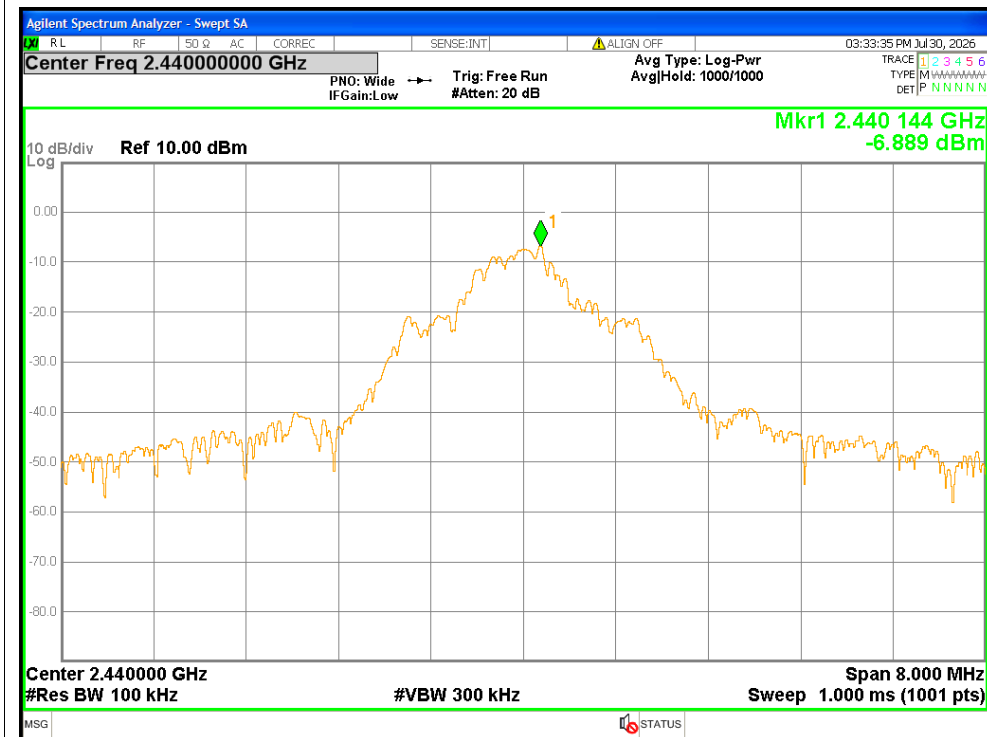
Tx. Spurious NVNT 2.4G 2402MHz Ref



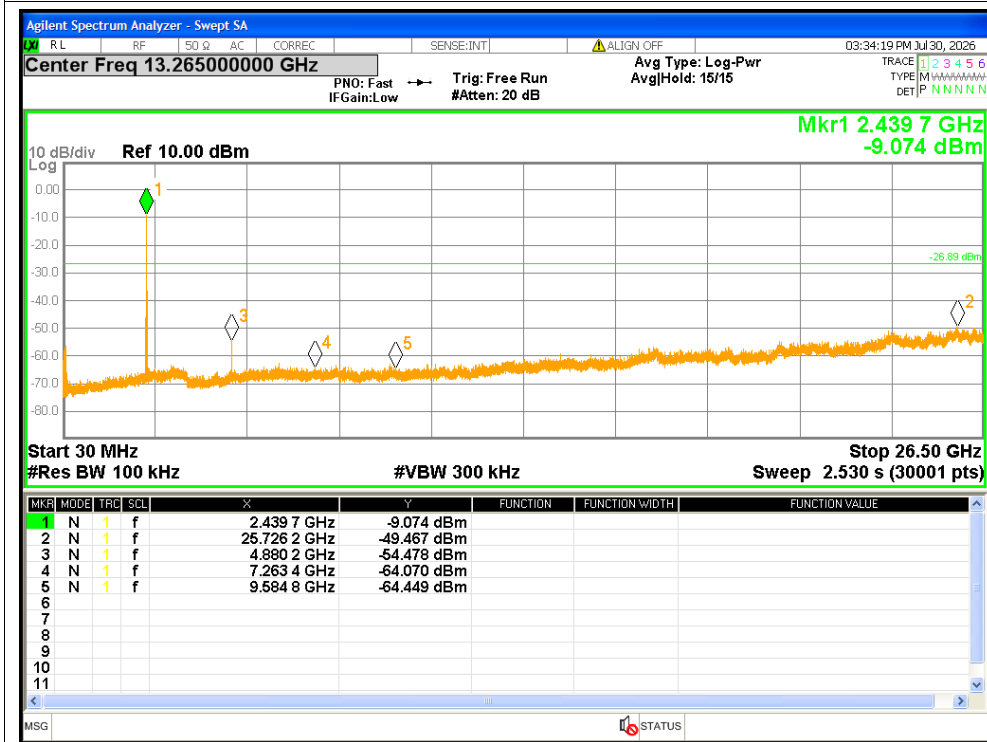
Tx. Spurious NVNT 2.4G 2402MHz Emission



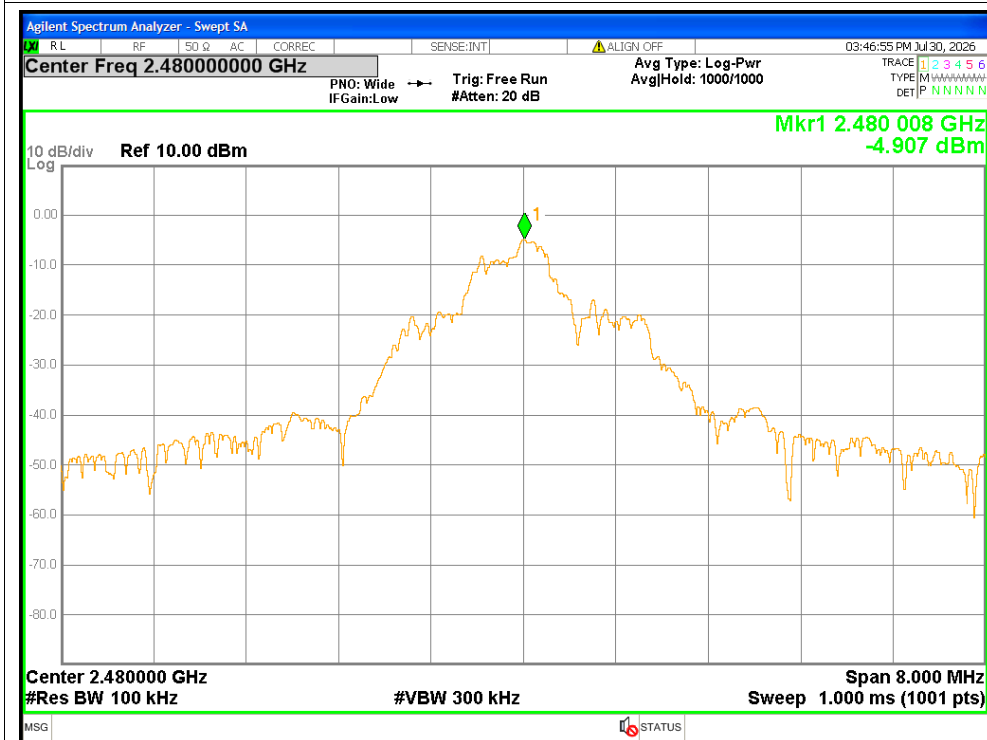
Tx. Spurious NVNT 2.4G 2440MHz Ref



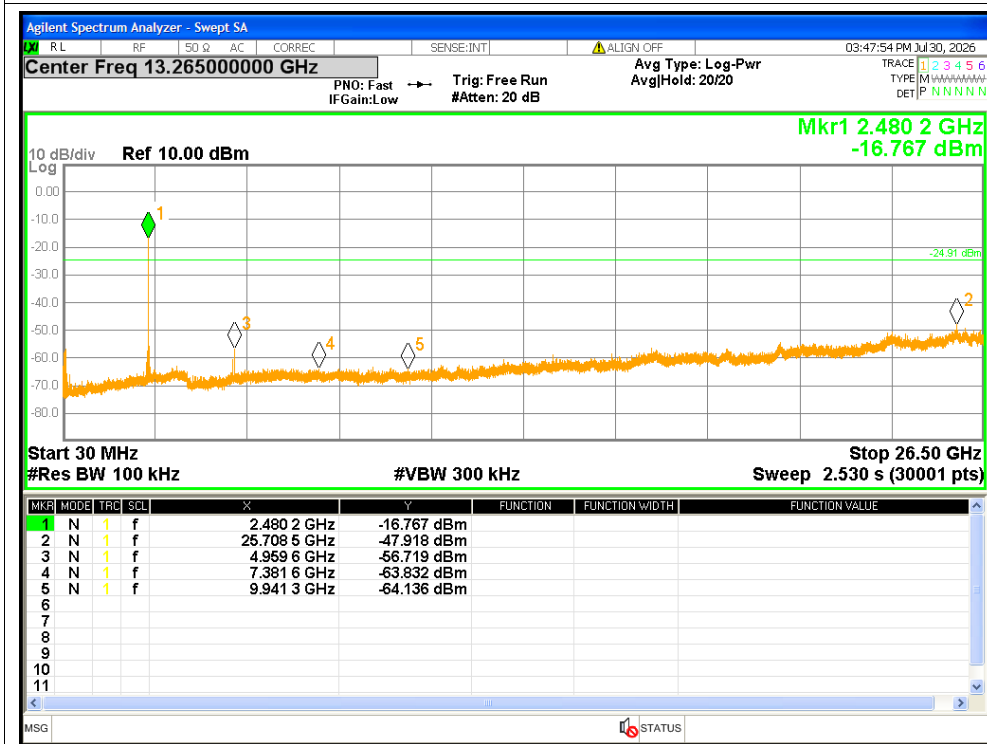
Tx. Spurious NVNT 2.4G 2440MHz Emission



Tx. Spurious NVNT 2.4G 2480MHz Ref



Tx. Spurious NVNT 2.4G 2480MHz Emission

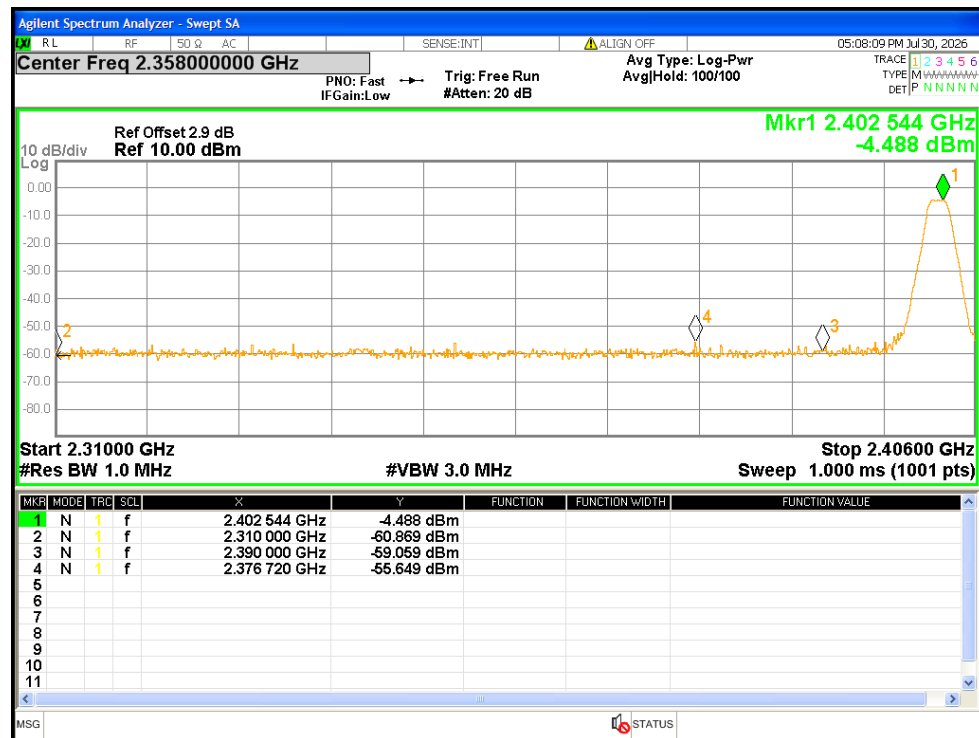


Restrict Band

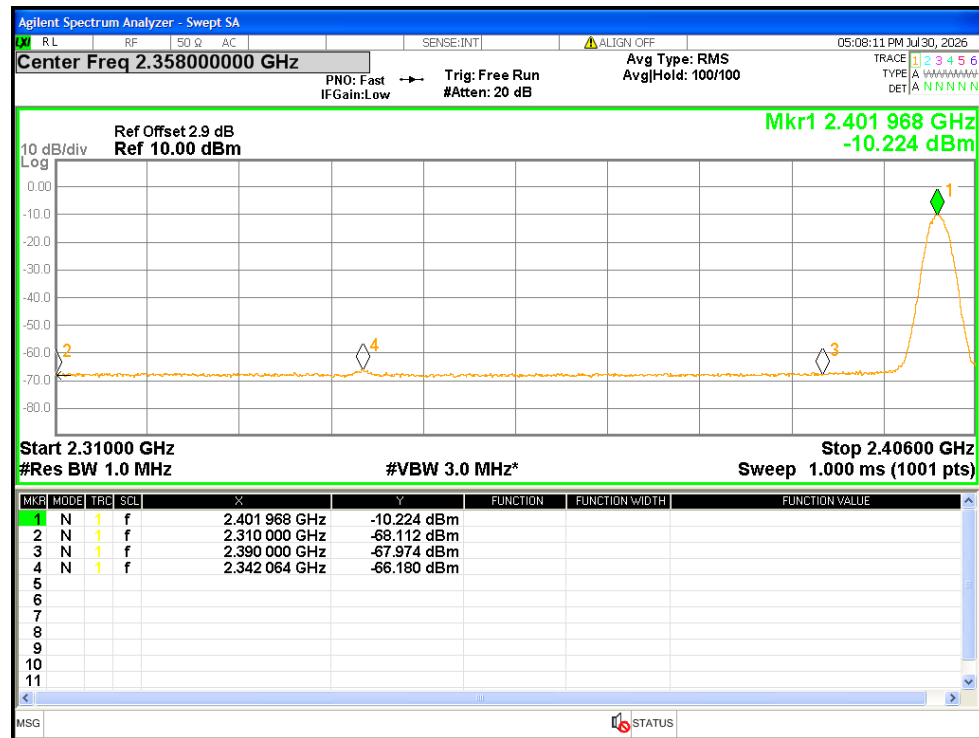
Condit ion	Mo de	Freque ncy (MHz)	Hopp ing Mod e	Spur Freq (MHz)	Pow er (dB m)	Ga in (d Bi)	Dut y Fact or (dB)	E (dBuV /m)	Detec tor	Limit (dBuV /m)	Verd ict
NVNT	2.4 G	2402	No- Hopp ing	2310	- 60.8 6	2	0	36.4	Peak	<=74	Pass
NVNT	2.4 G	2402	No- Hopp ing	2310	- 68.1 1	2	16. 20	45.35	Avera ge	<=54	Pass
NVNT	2.4 G	2402	No- Hopp ing	2376. 72	- 55.6 4	2	0	41.62	Peak	<=74	Pass
NVNT	2.4 G	2402	No- Hopp ing	2342. 064	- 66.1 7	2	16. 20	47.29	Avera ge	<=54	Pass
NVNT	2.4 G	2402	No- Hopp ing	2390	- 58.9 3	2	0	38.33	Peak	<=74	Pass
NVNT	2.4 G	2402	No- Hopp ing	2390	- 67.4 9	2	16. 20	45.97	Avera ge	<=54	Pass
NVNT	2.4 G	2480	No- Hopp ing	2483. 5	- 51.1 5	2	0	46.11	Peak	<=74	Pass
NVNT	2.4 G	2480	No- Hopp ing	2483. 5	- 62.6 1	2	16. 20	50.85	Avera ge	<=54	Pass
NVNT	2.4 G	2480	No- Hopp ing	2487. 28	- 44.4	2	0	52.86	Peak	<=74	Pass
NVNT	2.4 G	2480	No- Hopp ing	2483. 536	- 62.4	2	16. 20	51.06	Avera ge	<=54	Pass
NVNT	2.4 G	2480	No- Hopp ing	2500	- 59.1 7	2	0	38.09	Peak	<=74	Pass
NVNT	2.4 G	2480	No- Hopp ing	2500	- 67.0 5	2	16. 20	46.41	Avera ge	<=54	Pass

Test Graphs

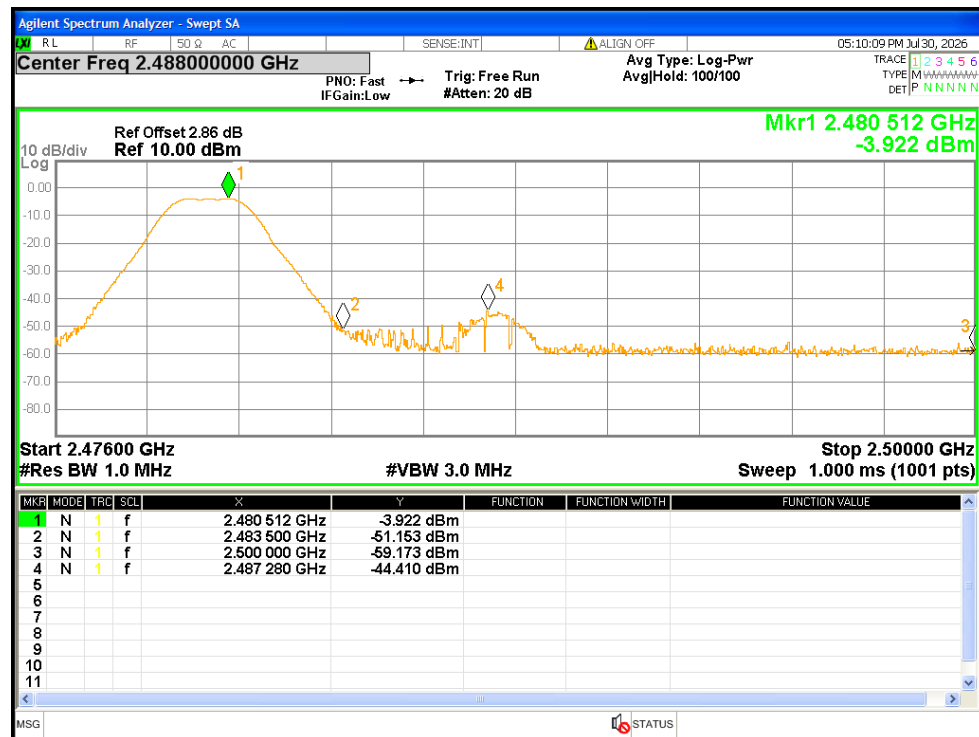
Restrict Band NVNT 2.4G 2402MHz No-Hopping Peak



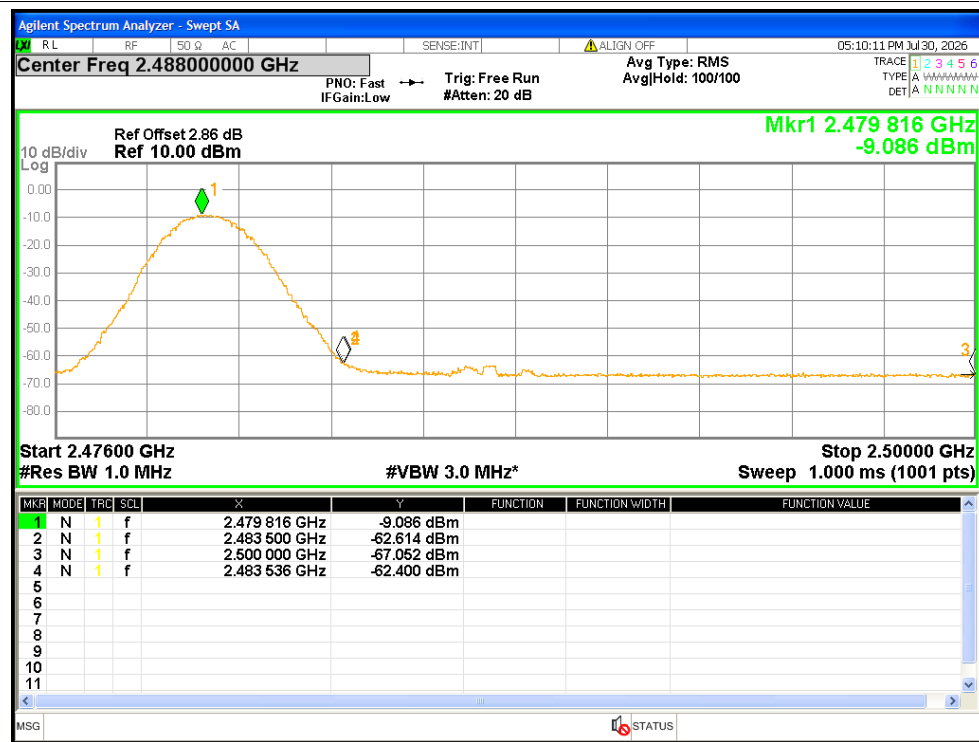
Restrict Band NVNT 2.4G 2402MHz No-Hopping Average



Restrict Band NVNT 2.4G 2480MHz No-Hopping Peak



Restrict Band NVNT 2.4G 2480MHz No-Hopping Average

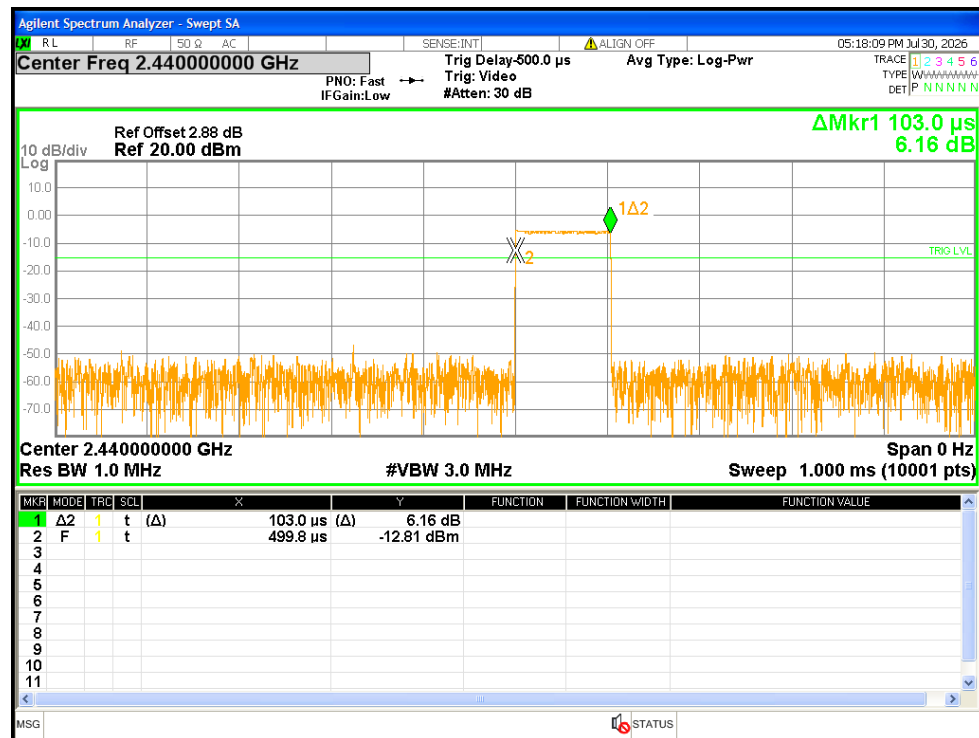


Dwell Time

Condition	Mode	Frequency (MHz)	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	2.4G	2440	0.103	10.094	98	16000	<=400	Pass

Test Graphs

Dwell NVNT 2.4G 2440MHz One Burst



Dwell NVNT 2.4G 2440MHz Accumulated

