

FCC Appendix RF Test Data for 2.4G

FCC ID : 2A2P5-OMR605

Company : Acer Gadget Inc.

EUT : Acer Wireless Mouse

Model Number : OMR605

Report No. : CTA26062701601

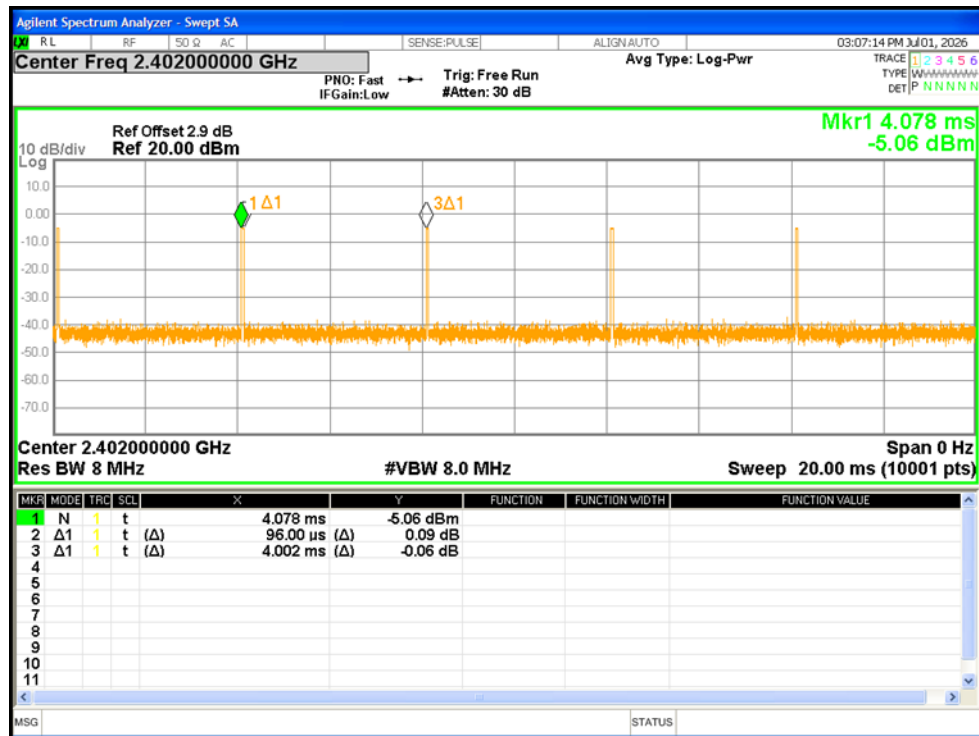
Reviewed By : Eric Wang

Duty Cycle

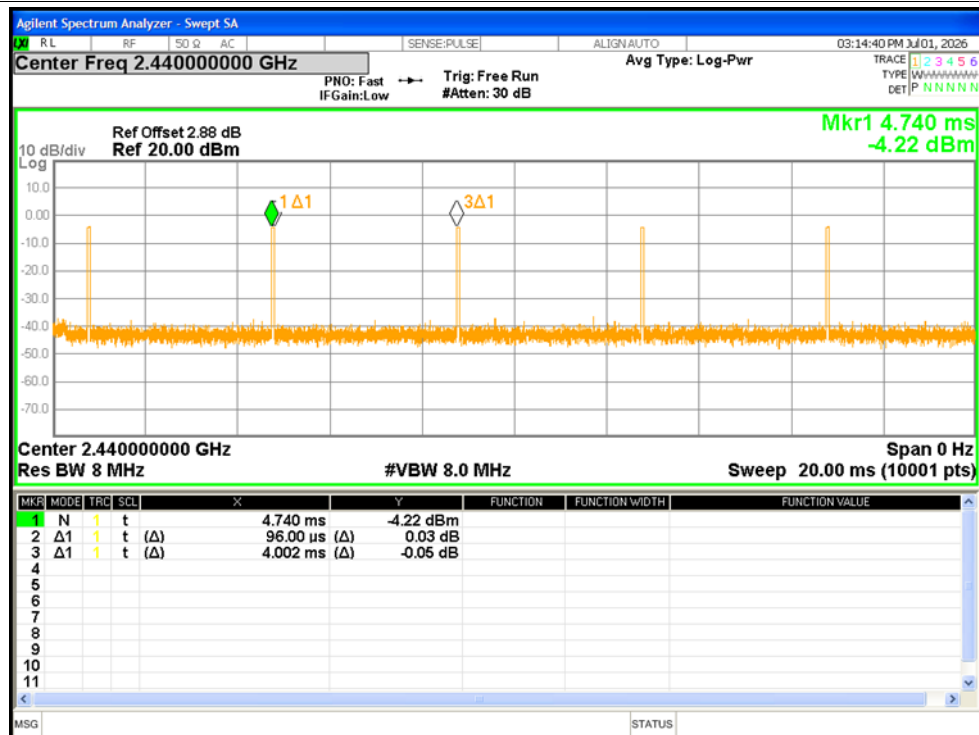
Condition	Mode	Frequency (MHz)	On Time (ms)	Period (ms)	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	2.4G	2402	0.096	4.002	2.4	16.20	17.86
NVNT	2.4G	2440	0.096	4.002	2.4	16.20	17.86
NVNT	2.4G	2480	0.096	4.004	2.4	16.20	17.86

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

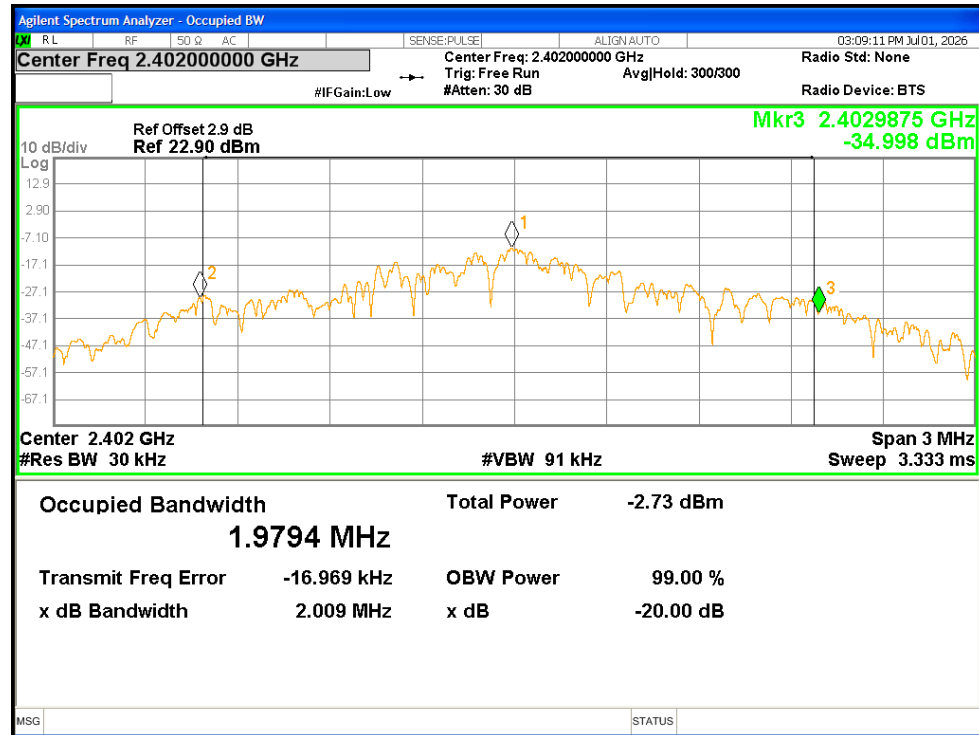
Condition	Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	2.4G	2402	-5.16	<=30	Pass
NVNT	2.4G	2440	-4.28	<=30	Pass
NVNT	2.4G	2480	-3.93	<=30	Pass

-20dB Bandwidth

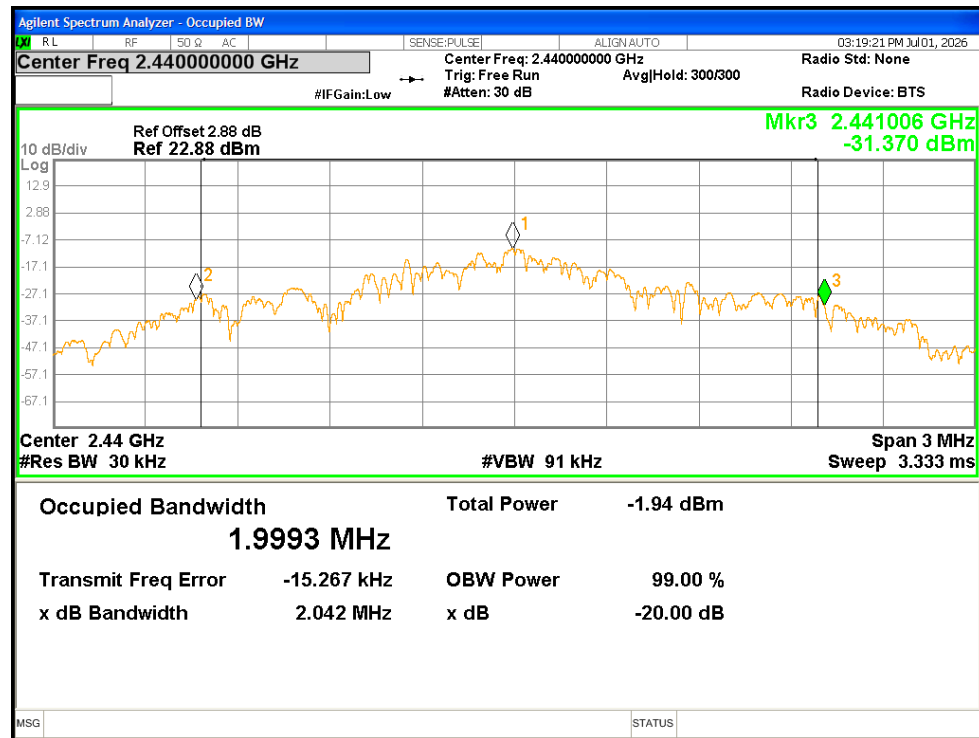
Condition	Mode	Frequency (MHz)	-20 dB Bandwidth (MHz)	Verdict
NVNT	2.4G	2402	2.009	Pass
NVNT	2.4G	2440	2.042	Pass
NVNT	2.4G	2480	2.059	Pass

Test Graphs

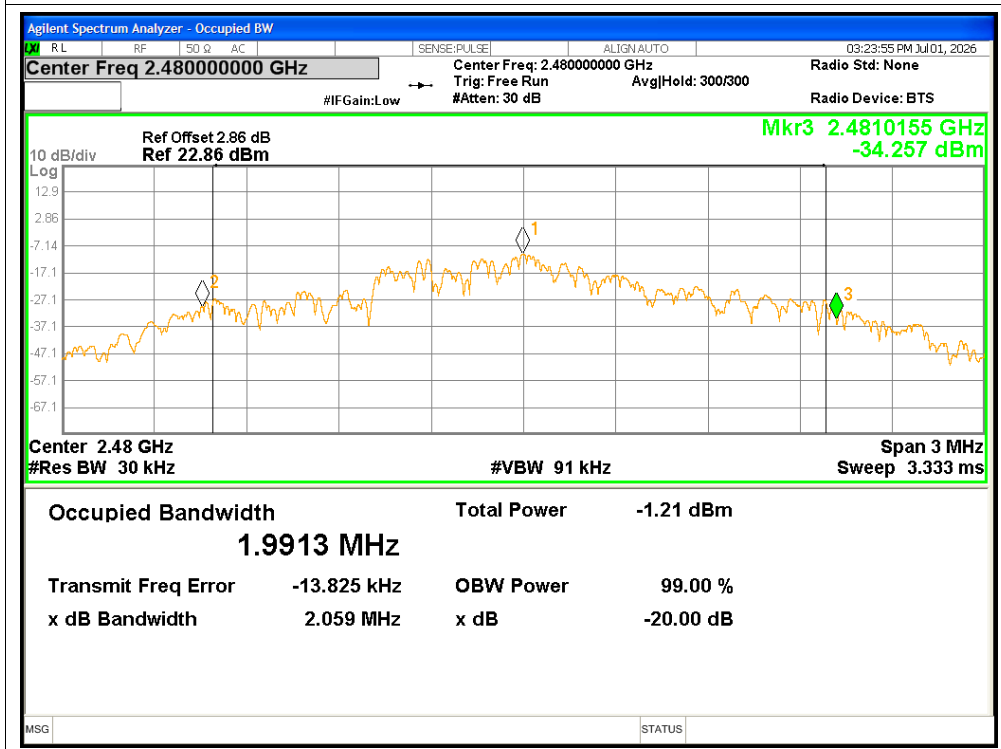
-20dB Bandwidth NVNT 2.4G 2402MHz



-20dB Bandwidth NVNT 2.4G 2440MHz



-20dB Bandwidth NVNT 2.4G 2480MHz

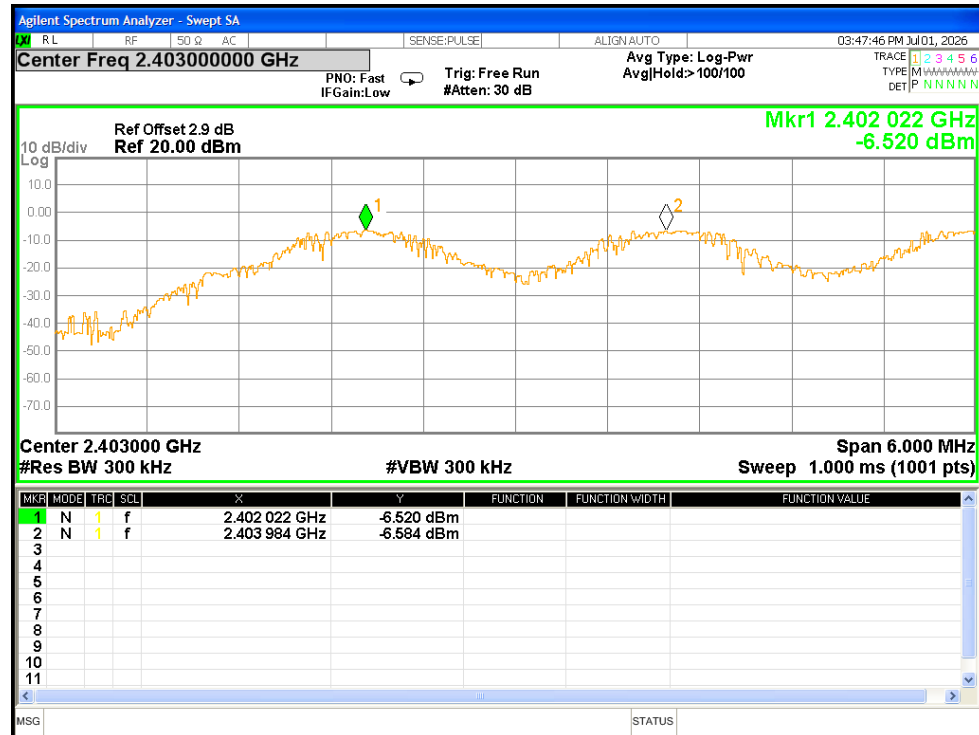


Carrier Frequencies Separation

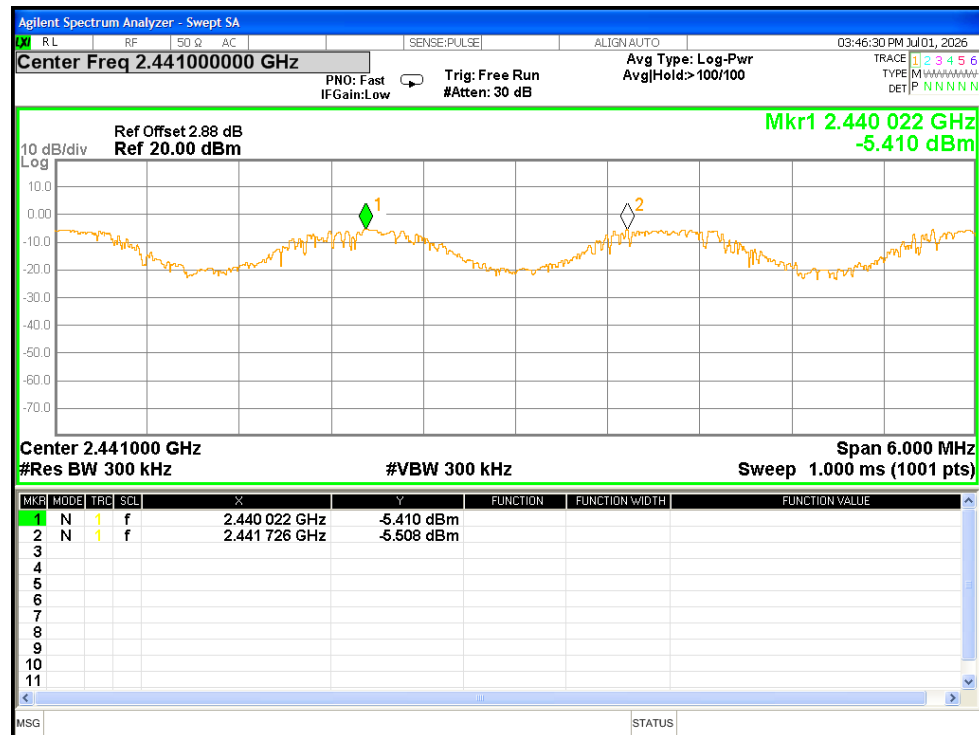
Condition	Mode	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	2.4G	2402.022	2403.984	1.962	≥ 1.339	Pass
NVNT	2.4G	2440.022	2441.726	1.704	≥ 1.361	Pass
NVNT	2.4G	2477.986	2480.026	2.04	≥ 1.373	Pass

Test Graphs

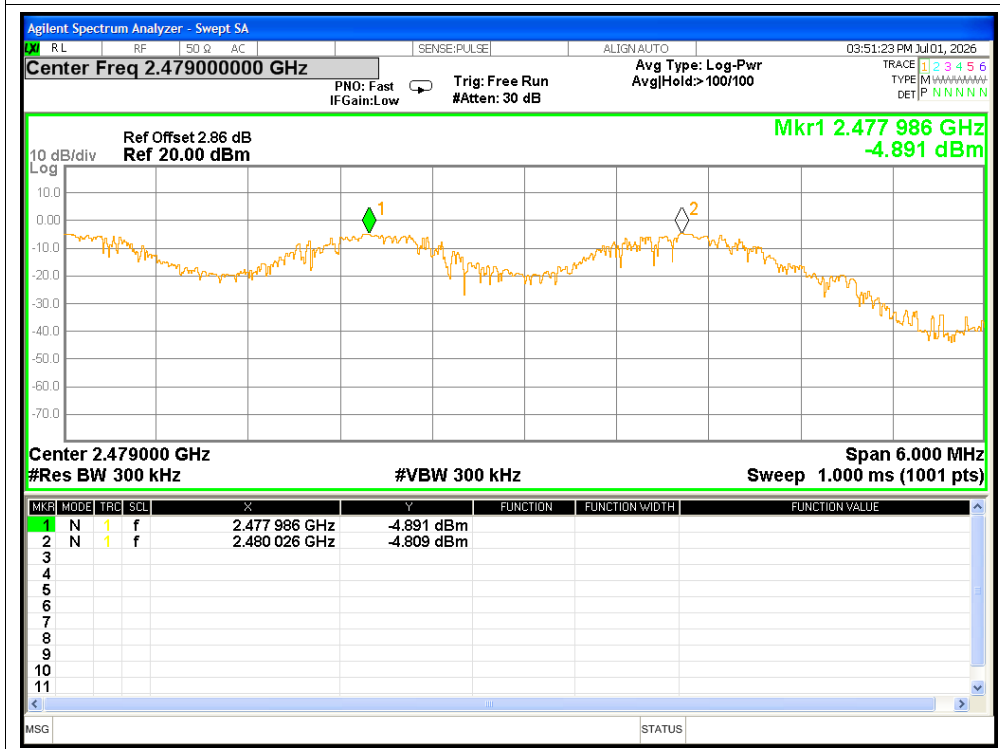
CFS NVNT 2.4G 2402MHz



CFS NVNT 2.4G 2440MHz



CFS NVNT 2.4G 2480MHz

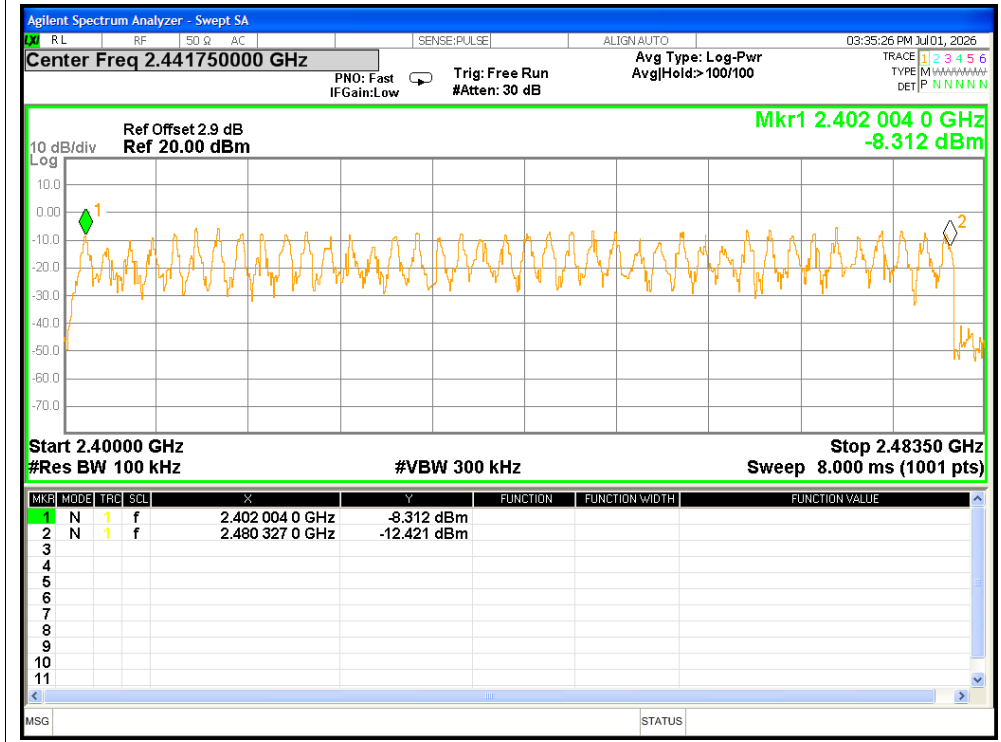


Number of Hopping Channel

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

Test Graphs

Hopping No. NVNT 2.4G Hopping

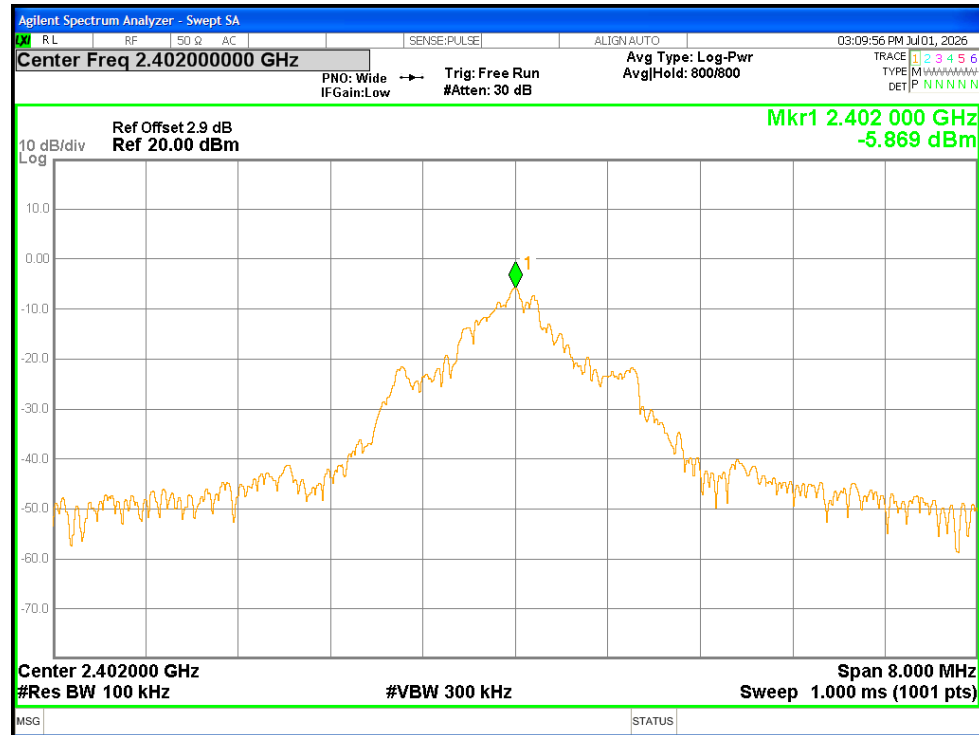


Band Edge

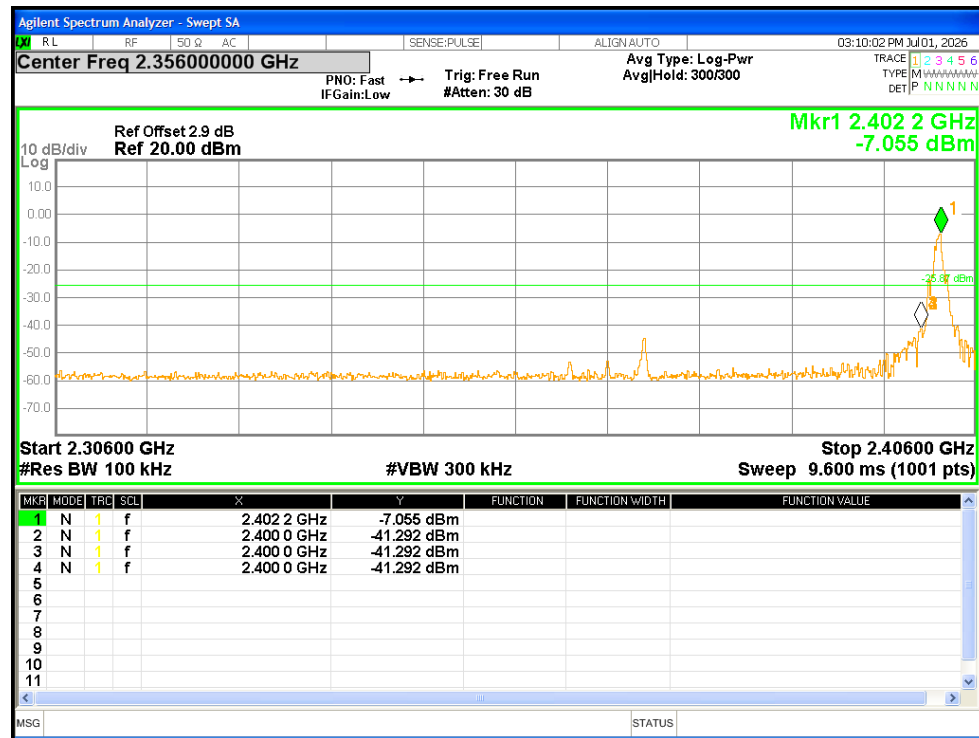
Condition	Mode	Frequency (MHz)	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	2.4G	2402	No-Hopping	-35.42	<=-20	Pass
NVNT	2.4G	2480	No-Hopping	-42.32	<=-20	Pass

Test Graphs

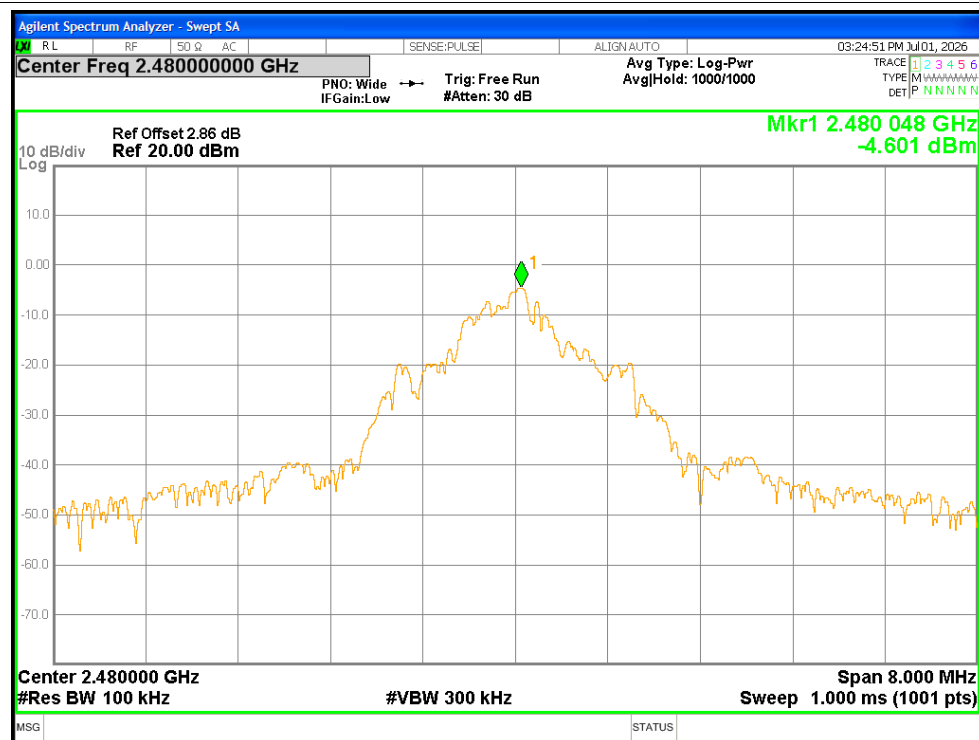
Band Edge NVNT 2.4G 2402MHz No-Hopping Ref



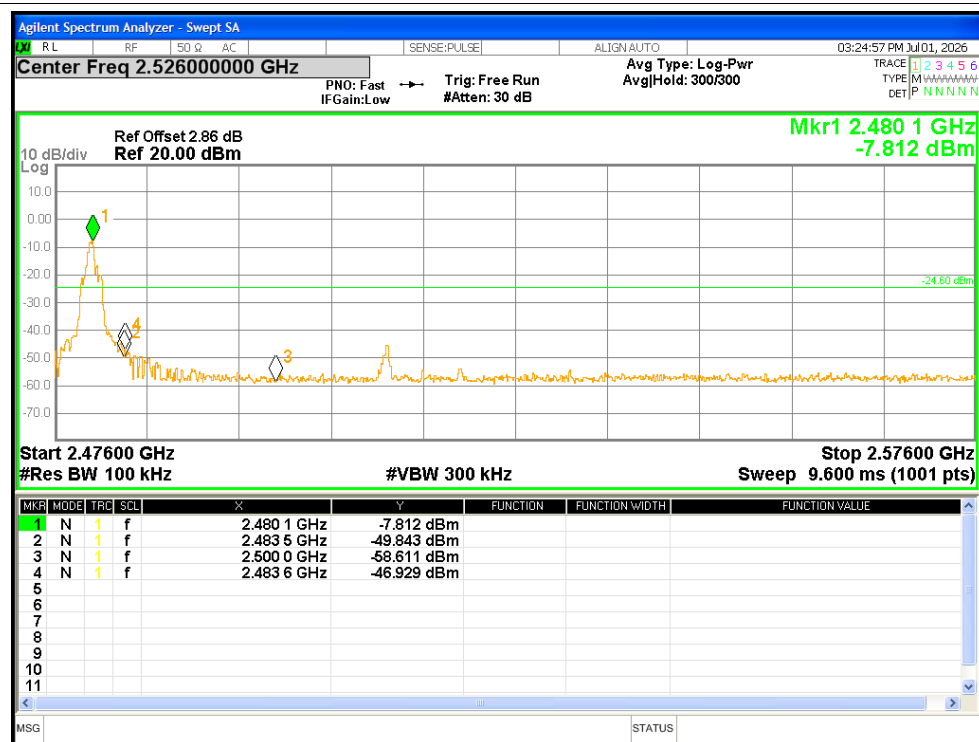
Band Edge NVNT 2.4G 2402MHz No-Hopping Emission



Band Edge NVNT 2.4G 2480MHz No-Hopping Ref



Band Edge NVNT 2.4G 2480MHz No-Hopping Emission

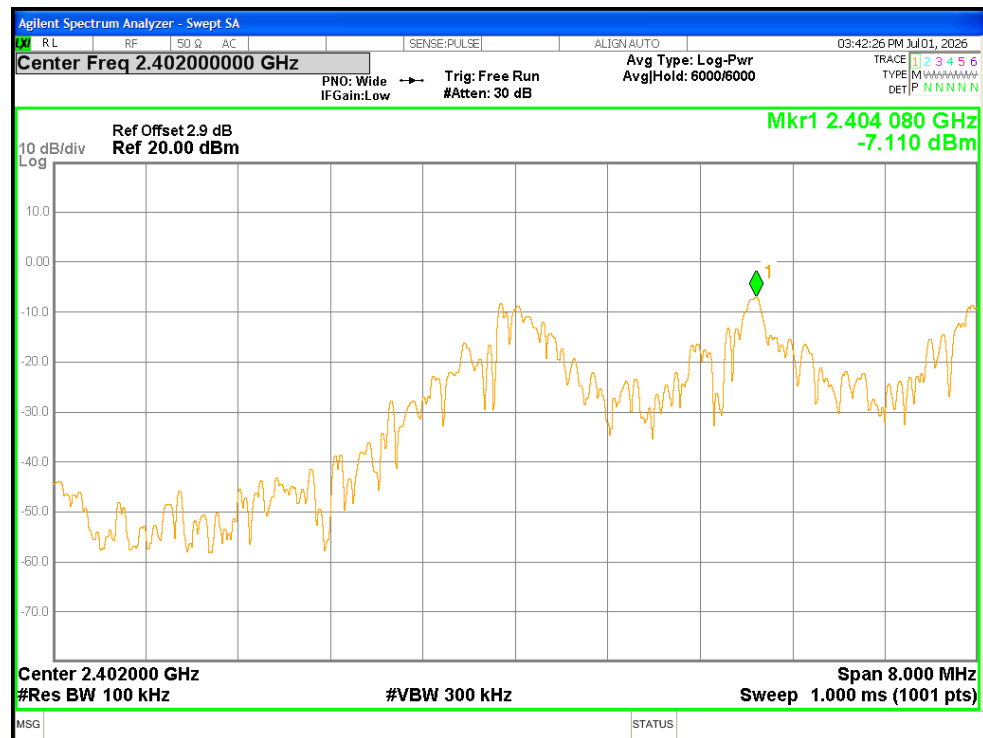


Band Edge(Hopping)

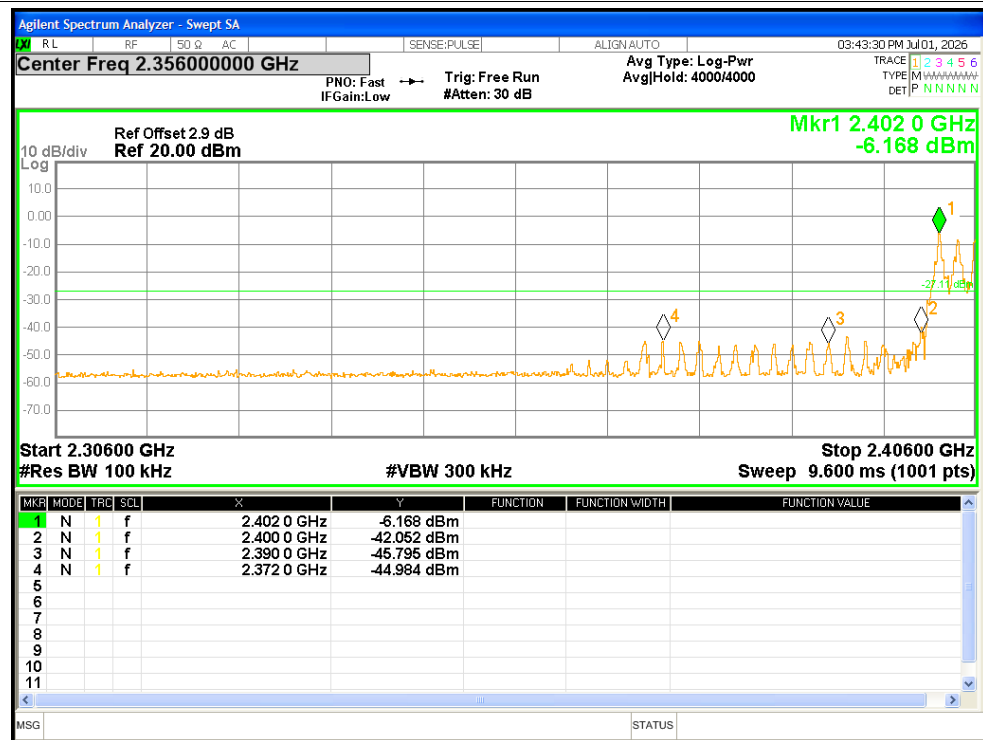
Condition	Mode	Frequency (MHz)	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	2.4G	2402	Hopping	-37.87	<=-20	Pass
NVNT	2.4G	2480	Hopping	-36.54	<=-20	Pass

Test Graphs

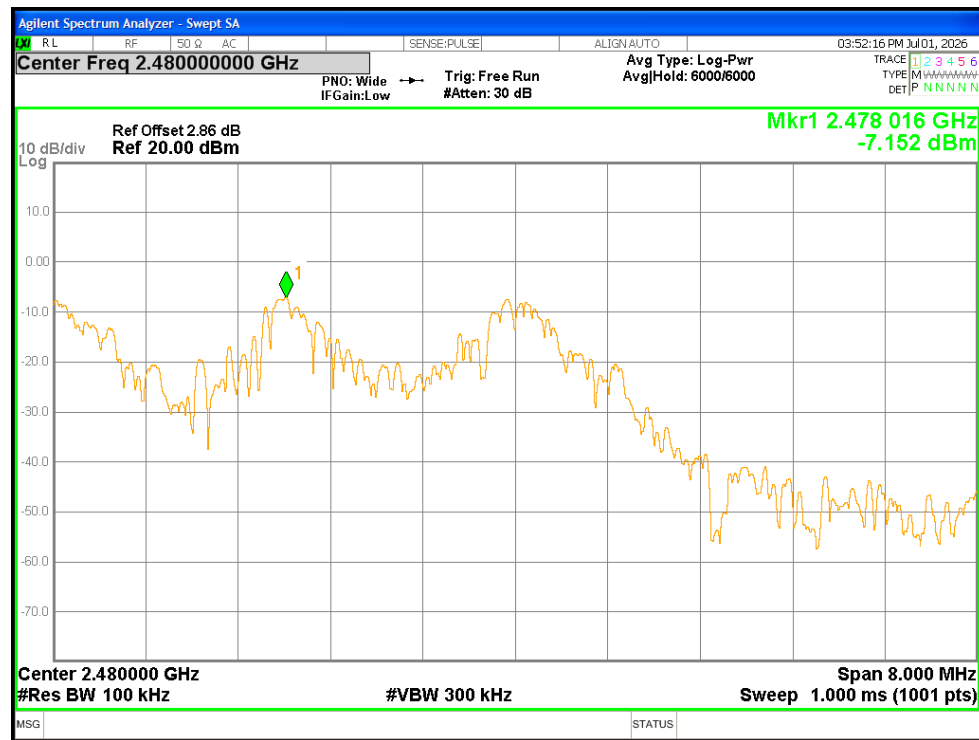
Band Edge(Hopping) NVNT 2.4G 2402MHz Hopping Ref



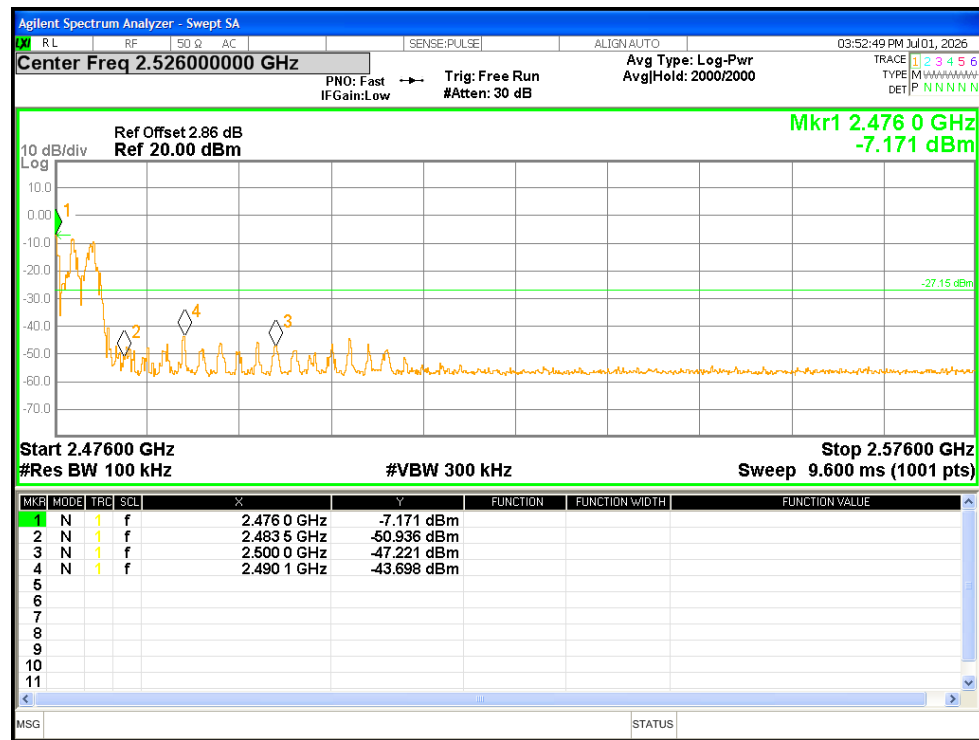
Band Edge(Hopping) NVNT 2.4G 2402MHz Hopping Emission



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



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



Conducted RF Spurious Emission

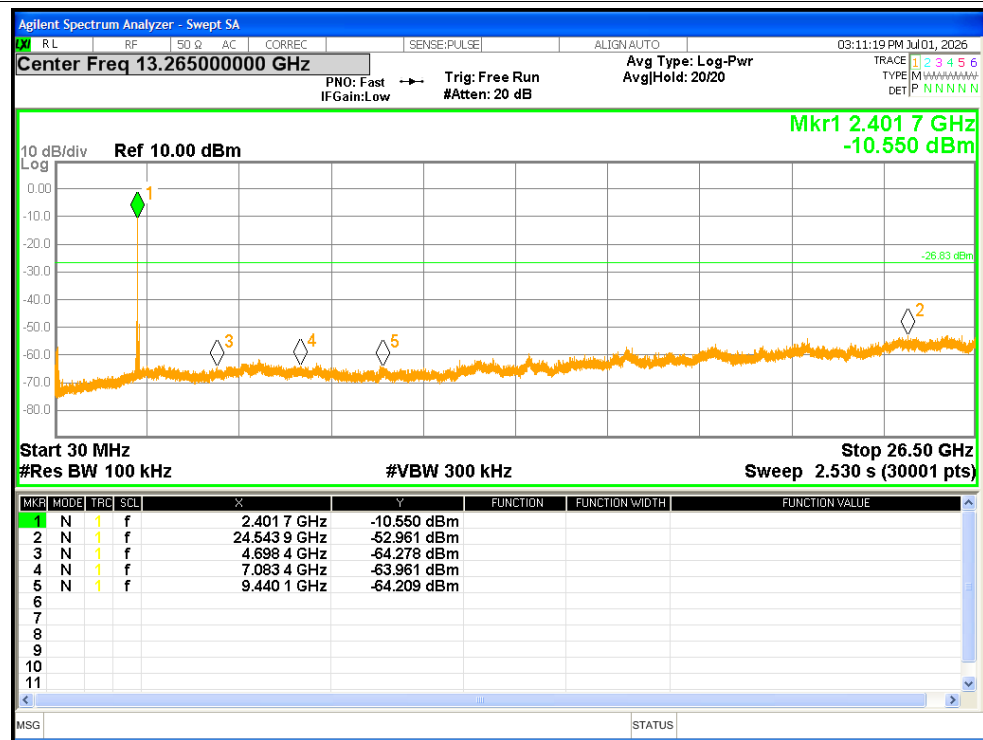
Condition	Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	2.4G	2402	-46.13	<=-20	Pass
NVNT	2.4G	2440	-46.88	<=-20	Pass
NVNT	2.4G	2480	-47.3	<=-20	Pass

Test Graphs

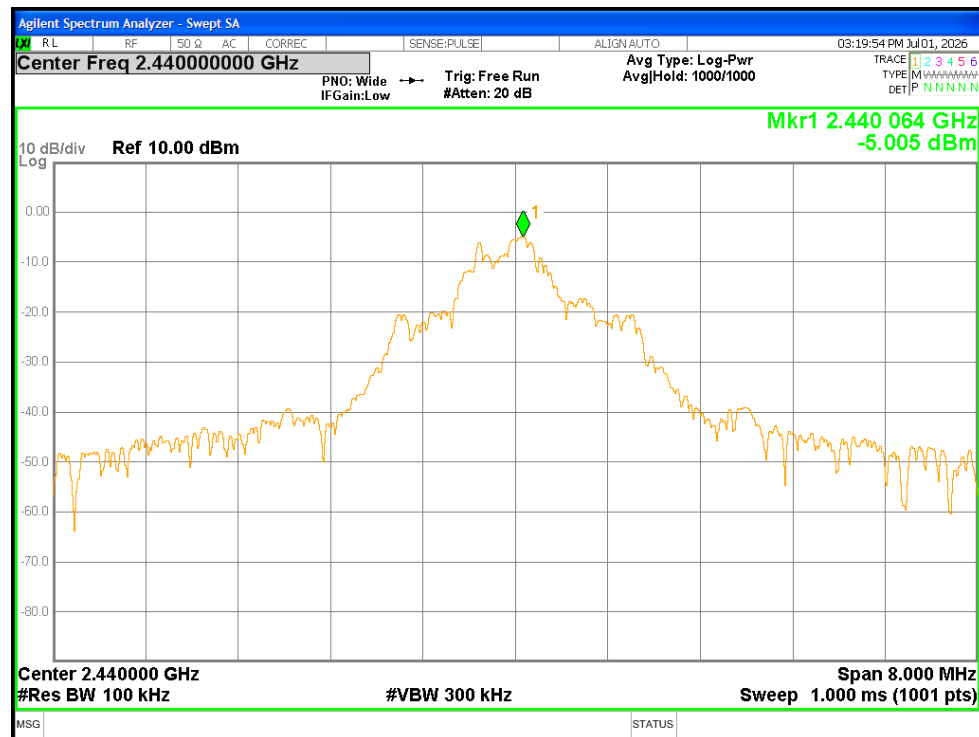
Tx. Spurious NVNT 2.4G 2402MHz Ref



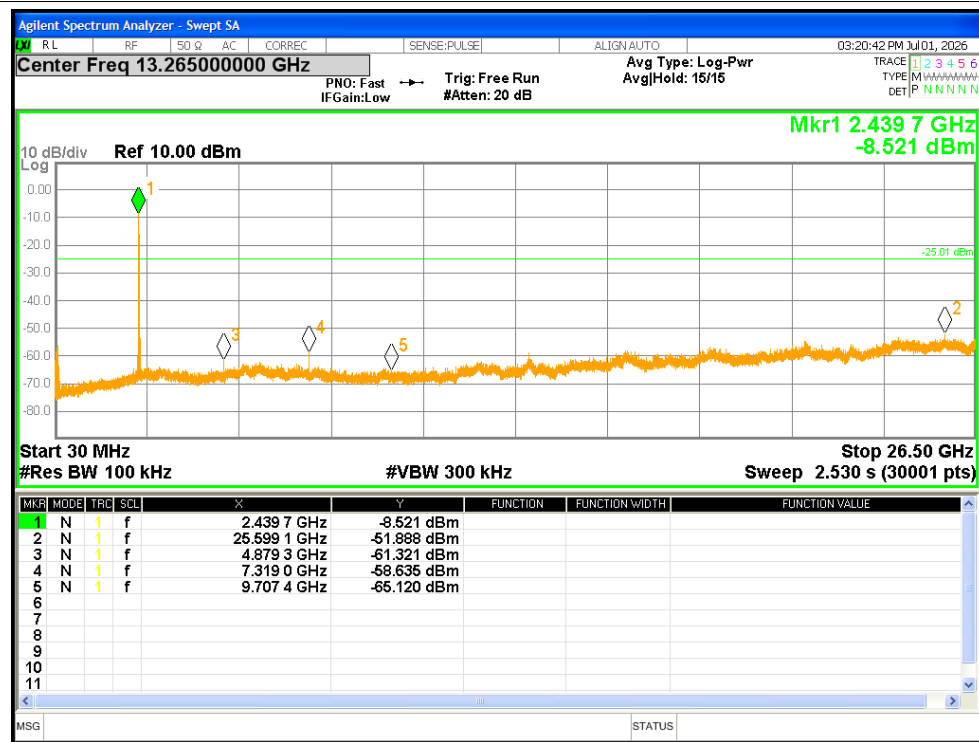
Tx. Spurious NVNT 2.4G 2402MHz Emission



Tx. Spurious NVNT 2.4G 2440MHz Ref



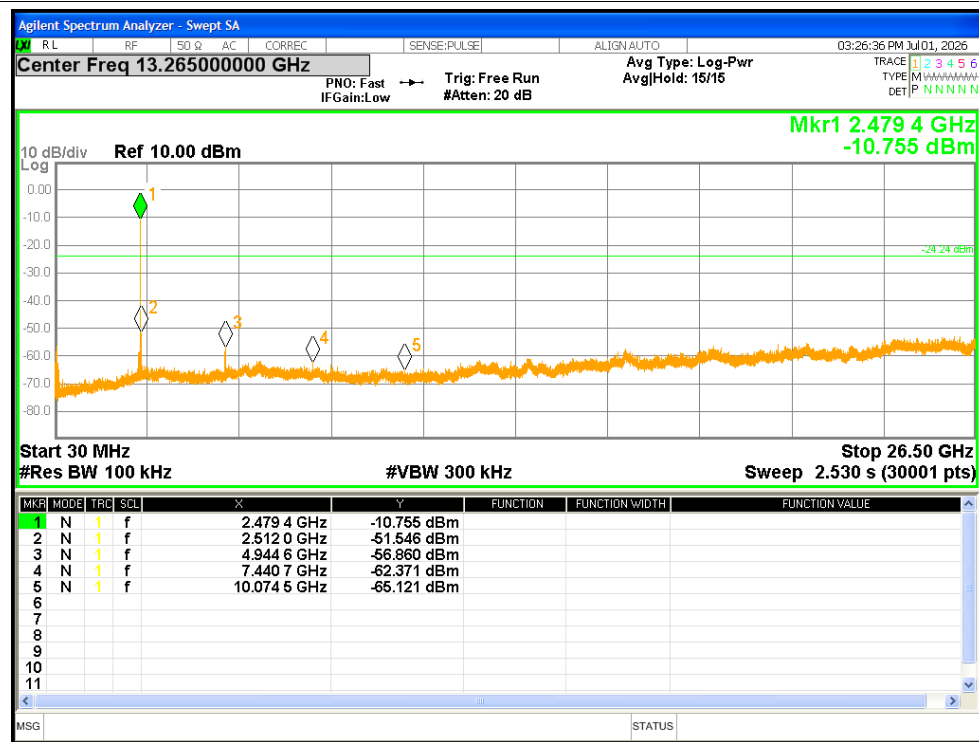
Tx. Spurious NVNT 2.4G 2440MHz Emission



Tx. Spurious NVNT 2.4G 2480MHz Ref



Tx. Spurious NVNT 2.4G 2480MHz Emission

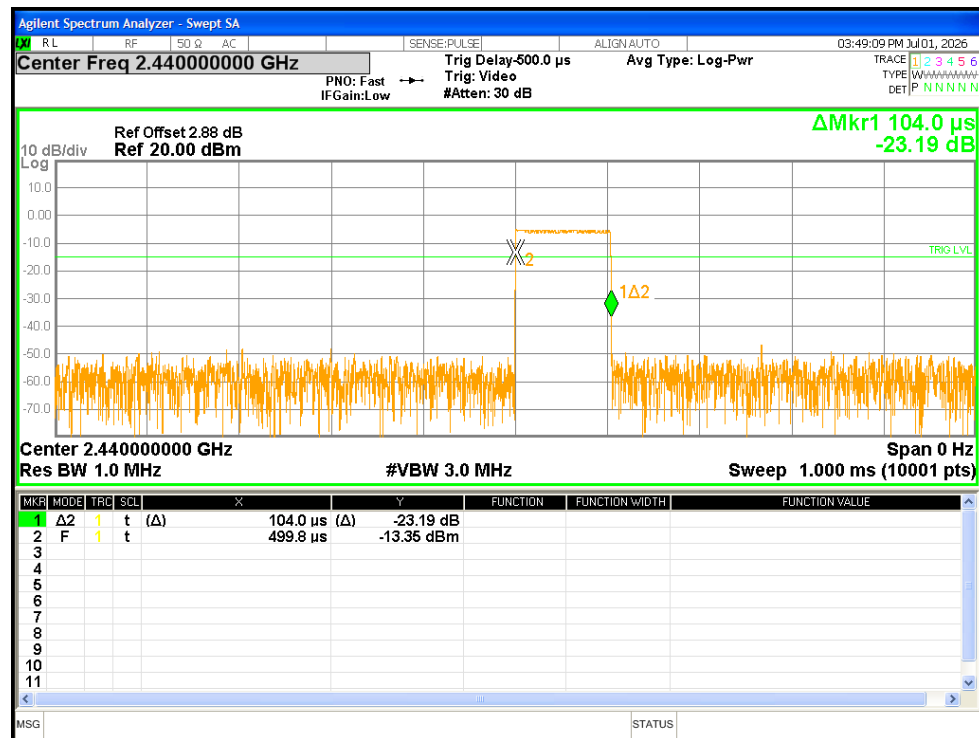


Dwell Time

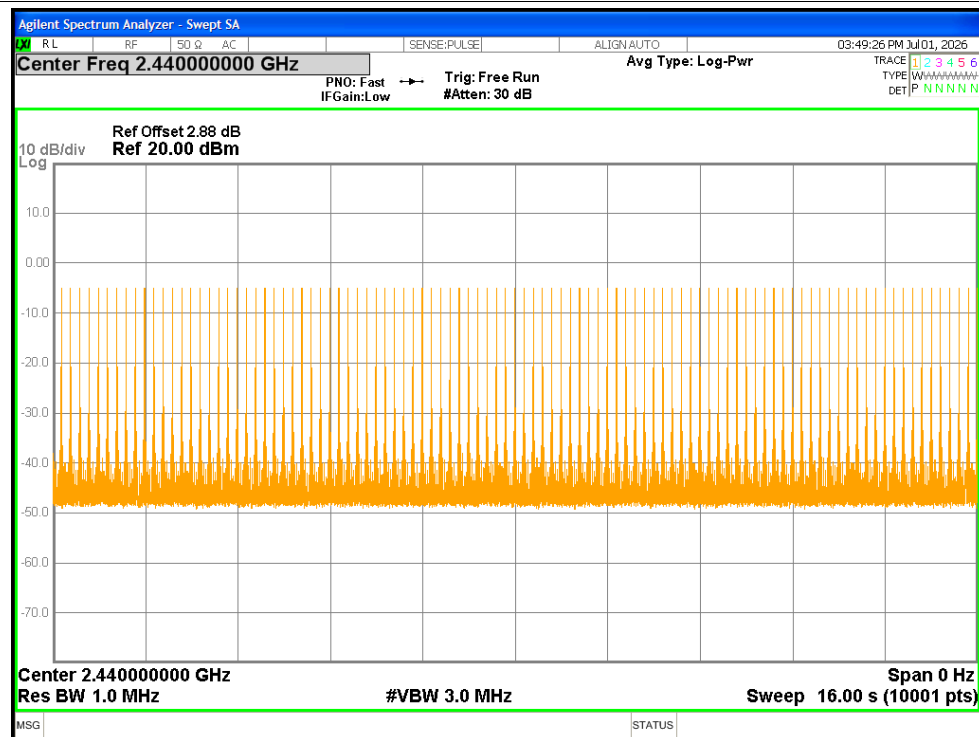
Condition	Mode	Frequency (MHz)	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	2.4G	2440	0.104	10.296	99	16000	<=400	Pass

Test Graphs

Dwell NVNT 2.4G 2440MHz One Burst



Dwell NVNT 2.4G 2440MHz Accumulated

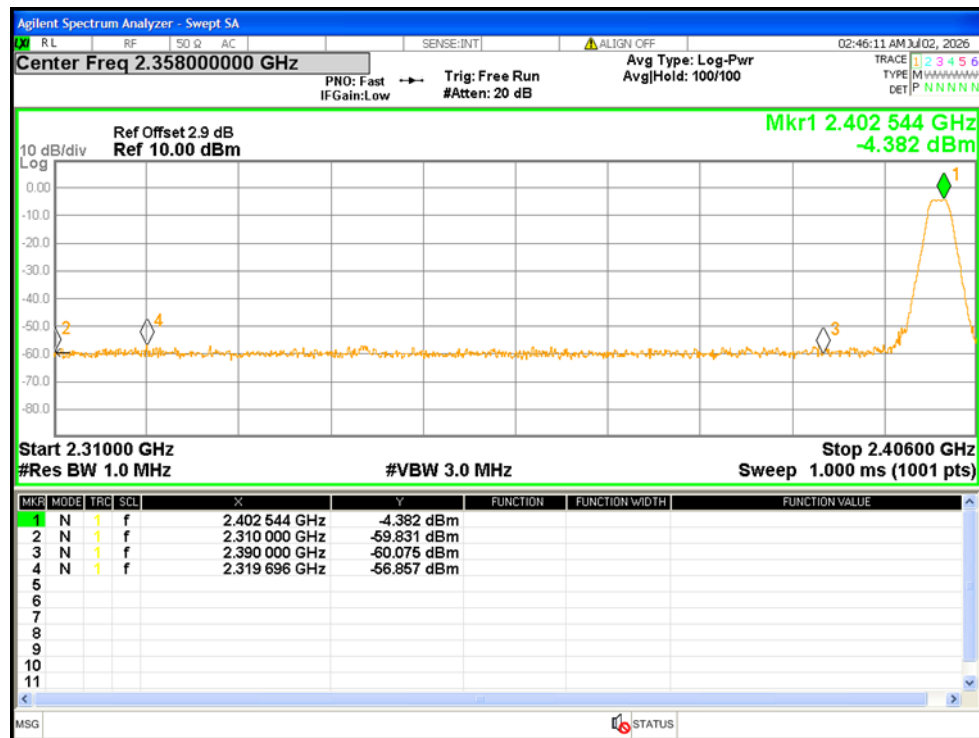


Restrict Band

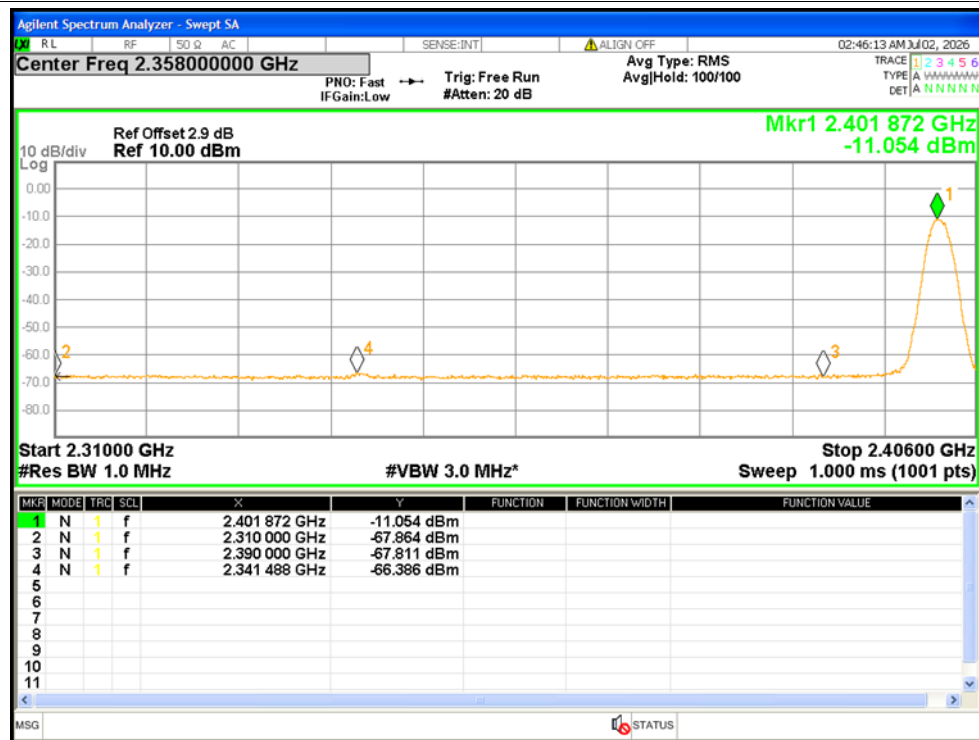
Mode	Frequency (MHz)	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
2.4G	2402	No-Hopping	2310	-59.83	2	0	37.43	Peak	<=74	Pass
2.4G	2402	No-Hopping	2310	-67.86	2	18.54	45.6	Average	<=54	Pass
2.4G	2402	No-Hopping	2319.696	-56.85	2	0	40.41	Peak	<=74	Pass
2.4G	2402	No-Hopping	2341.488	-66.38	2	18.54	47.08	Average	<=54	Pass
2.4G	2402	No-Hopping	2390	-59.28	2	0	37.98	Peak	<=74	Pass
2.4G	2402	No-Hopping	2390	-68.19	2	18.54	45.27	Average	<=54	Pass
2.4G	2480	No-Hopping	2483.5	-51.13	2	0	46.13	Peak	<=74	Pass
2.4G	2480	No-Hopping	2483.5	-63.19	2	18.7	50.27	Average	<=54	Pass
2.4G	2480	No-Hopping	2487.472	-45.46	2	0	51.8	Peak	<=74	Pass
2.4G	2480	No-Hopping	2486.92	-61.96	2	18.7	51.5	Average	<=54	Pass
2.4G	2480	No-Hopping	2500	-58.33	2	0	38.93	Peak	<=74	Pass
2.4G	2480	No-Hopping	2500	-66.84	2	18.7	46.62	Average	<=54	Pass

Test Graphs

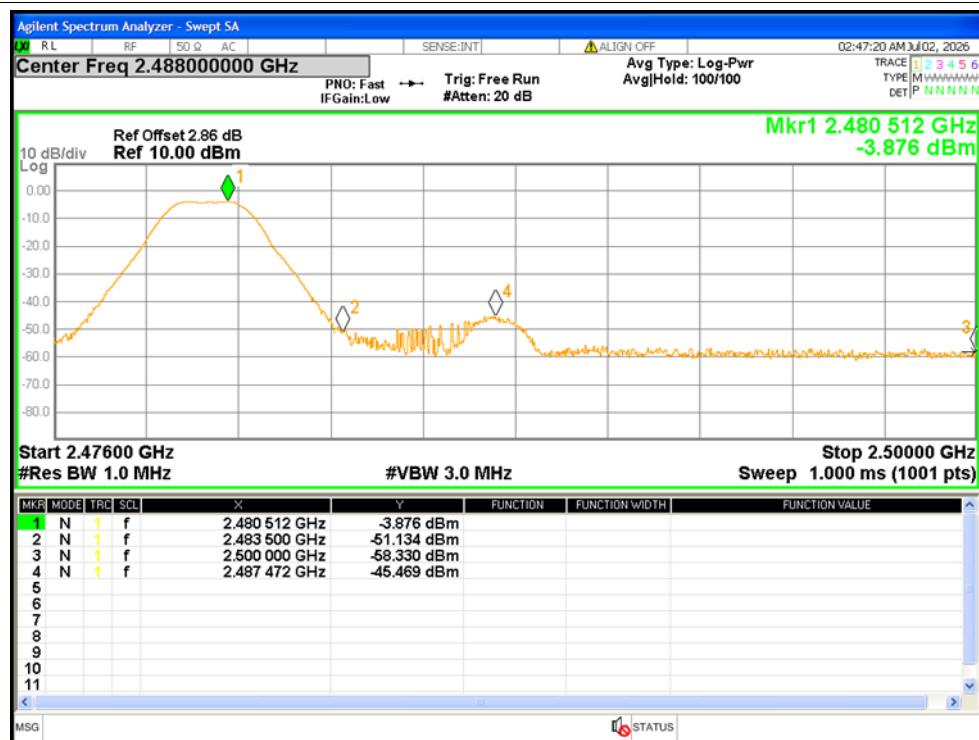
Restrict Band NVNT 2.4G 2402MHz No-Hopping Peak



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

