



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: AMPLIFIER

Test Model: PA6X120

Environmental Conditions

Temperature:	23.7°C
Relative Humidity:	51.9%
ATM Pressure:	100.0 kPa
Test Engineer:	Jerry Chu
Supervised by:	Can Kun

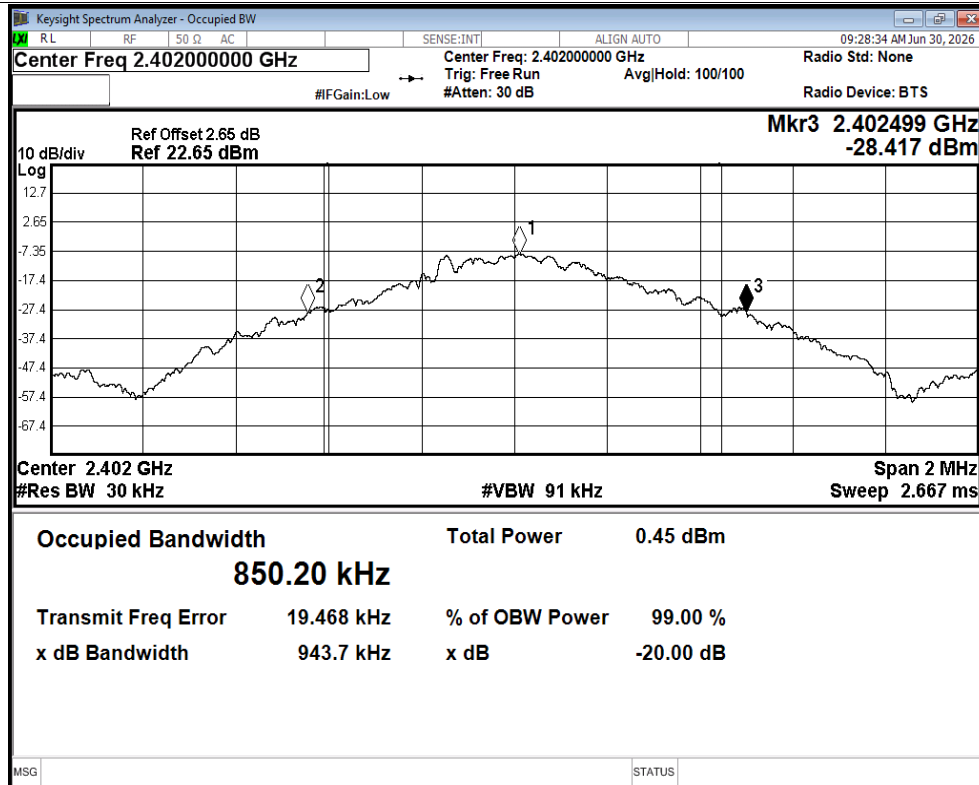




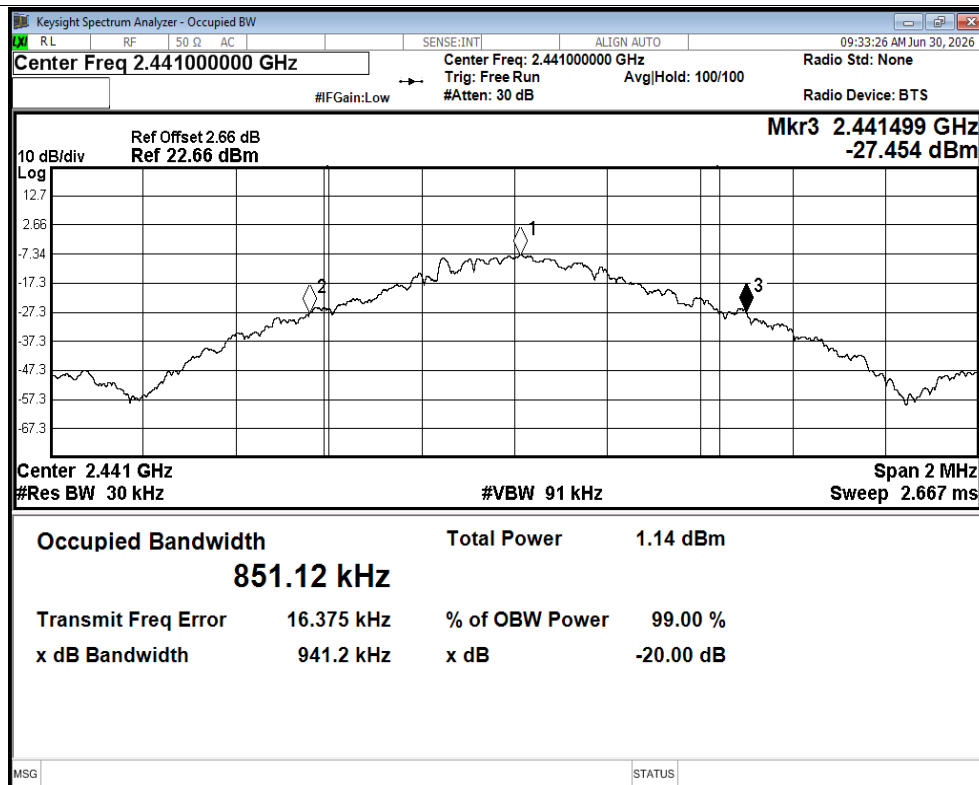
A.1 -20dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	0.9437	0	Pass
NVNT	1-DH5	2441	Ant1	0.9412	0	Pass
NVNT	1-DH5	2480	Ant1	0.9362	0	Pass
NVNT	2-DH5	2402	Ant1	1.278	0	Pass
NVNT	2-DH5	2441	Ant1	1.279	0	Pass
NVNT	2-DH5	2480	Ant1	1.279	0	Pass



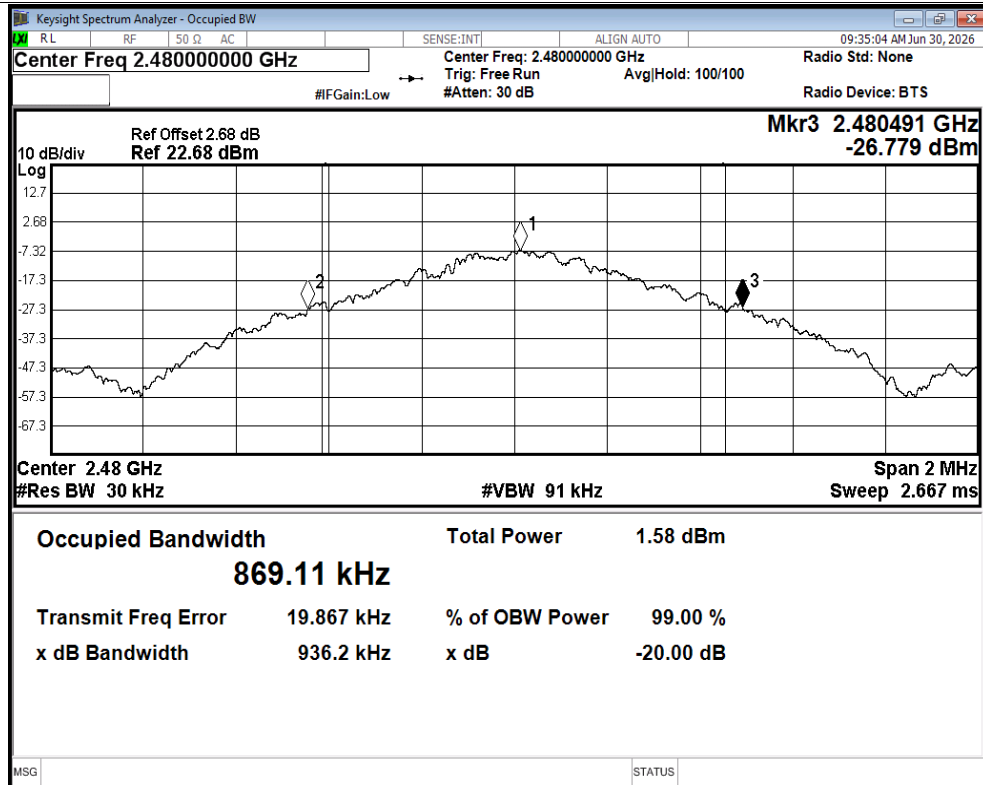


-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1

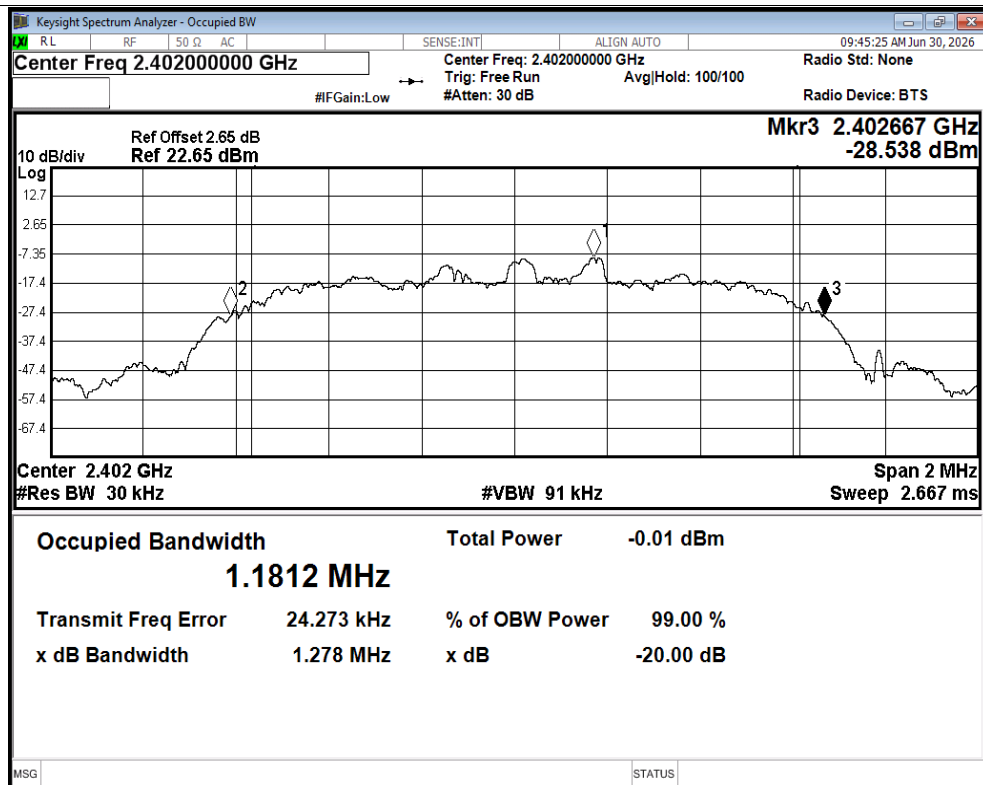


-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1



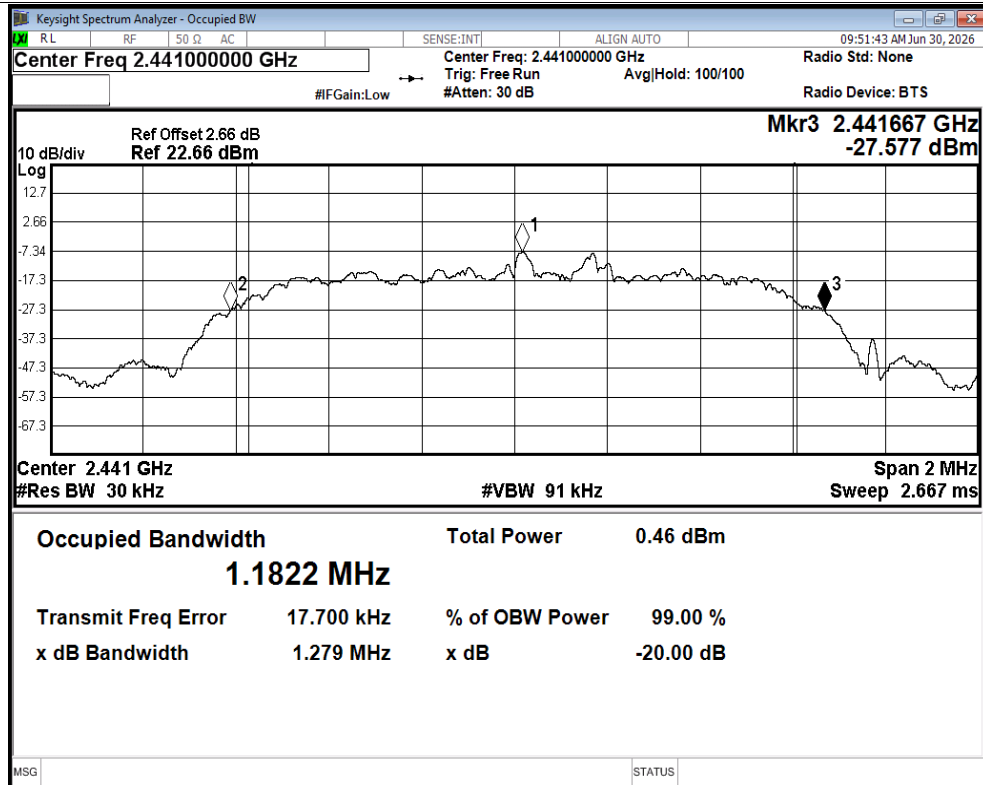


-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1

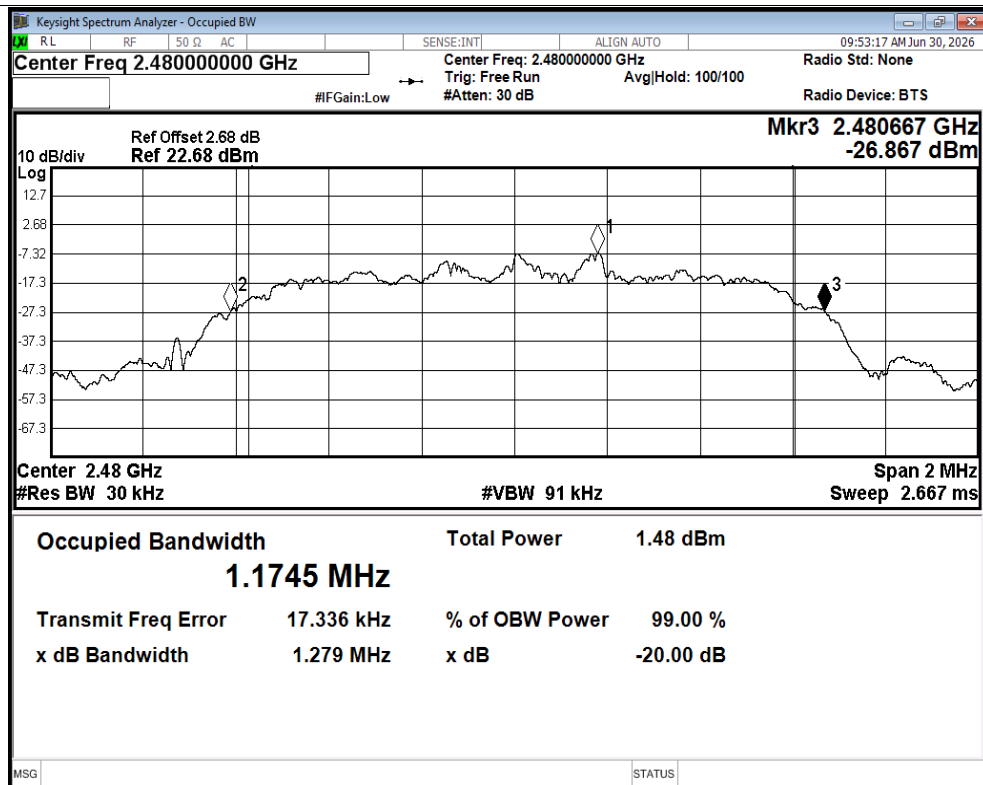


-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1





-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1



-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1

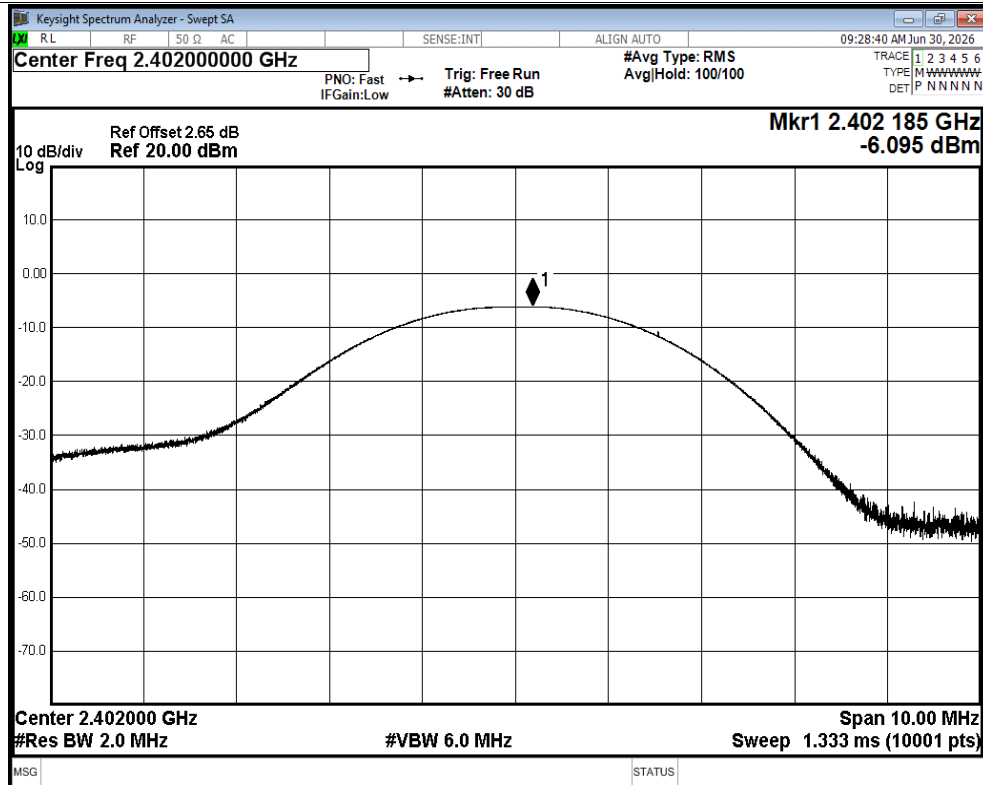




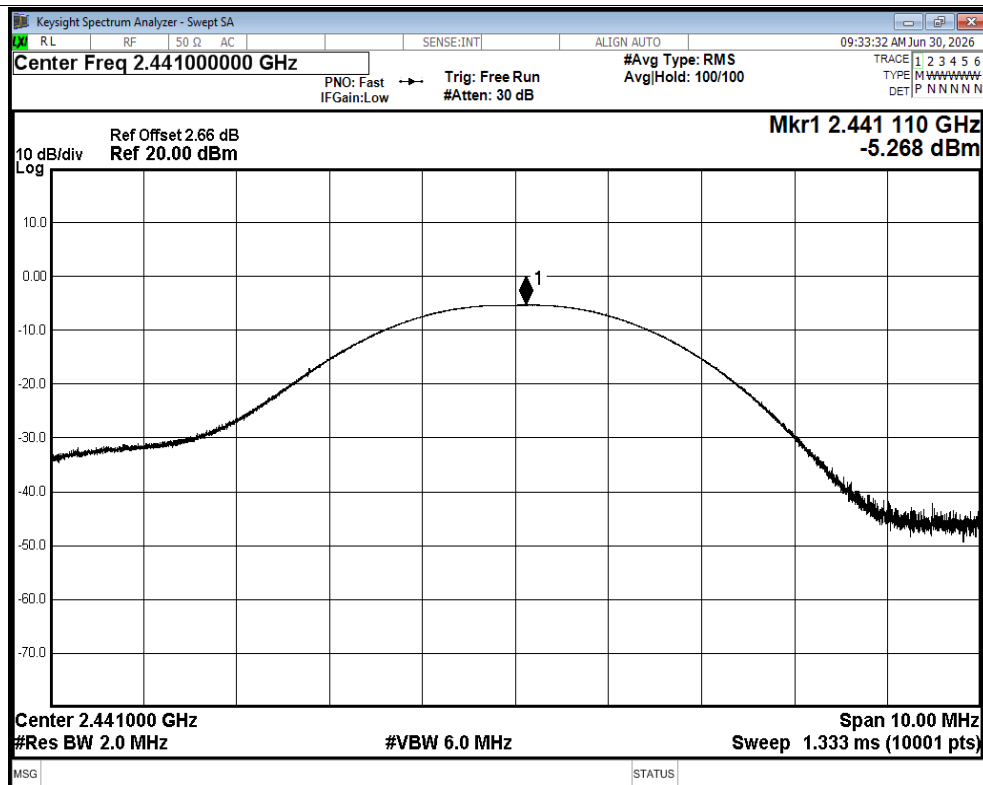
A.2 Maximum Peak Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit Conducted(dBm)	Verdict
NVNT	1-DH5	2402	Ant1	-6.1	30	Pass
NVNT	1-DH5	2441	Ant1	-5.27	30	Pass
NVNT	1-DH5	2480	Ant1	-4.53	30	Pass
NVNT	2-DH5	2402	Ant1	-5.05	30	Pass
NVNT	2-DH5	2441	Ant1	-4.2	30	Pass
NVNT	2-DH5	2480	Ant1	-3.44	30	Pass



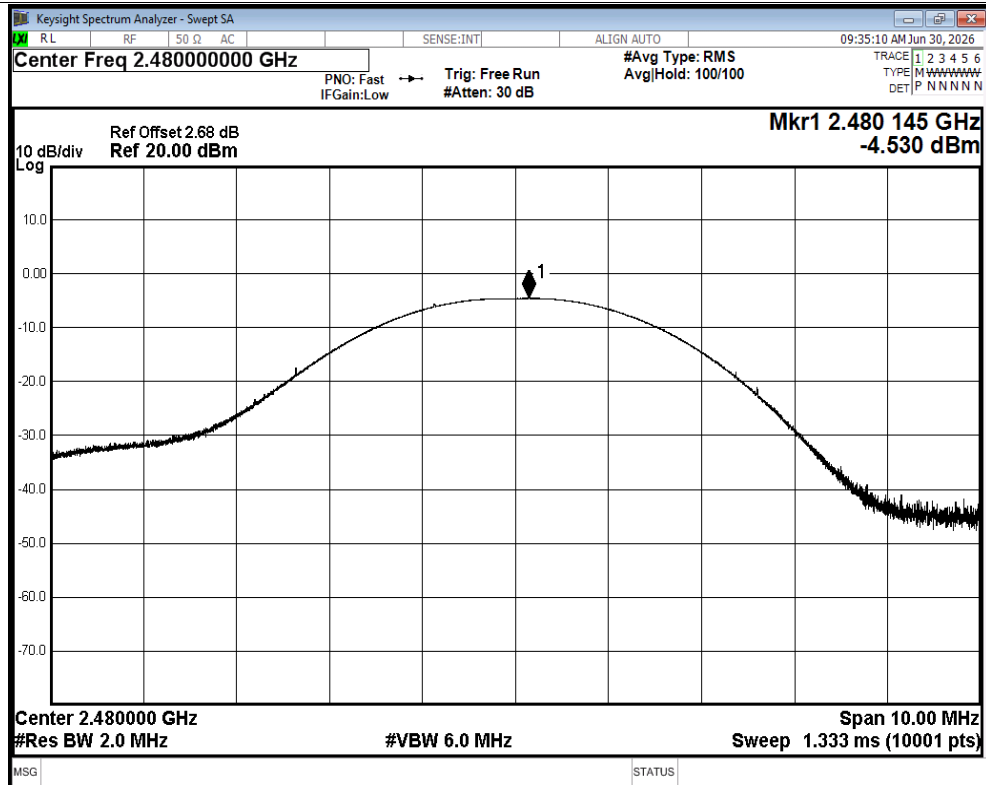


Peak Power NVNT 1-DH5 2402MHz Ant1

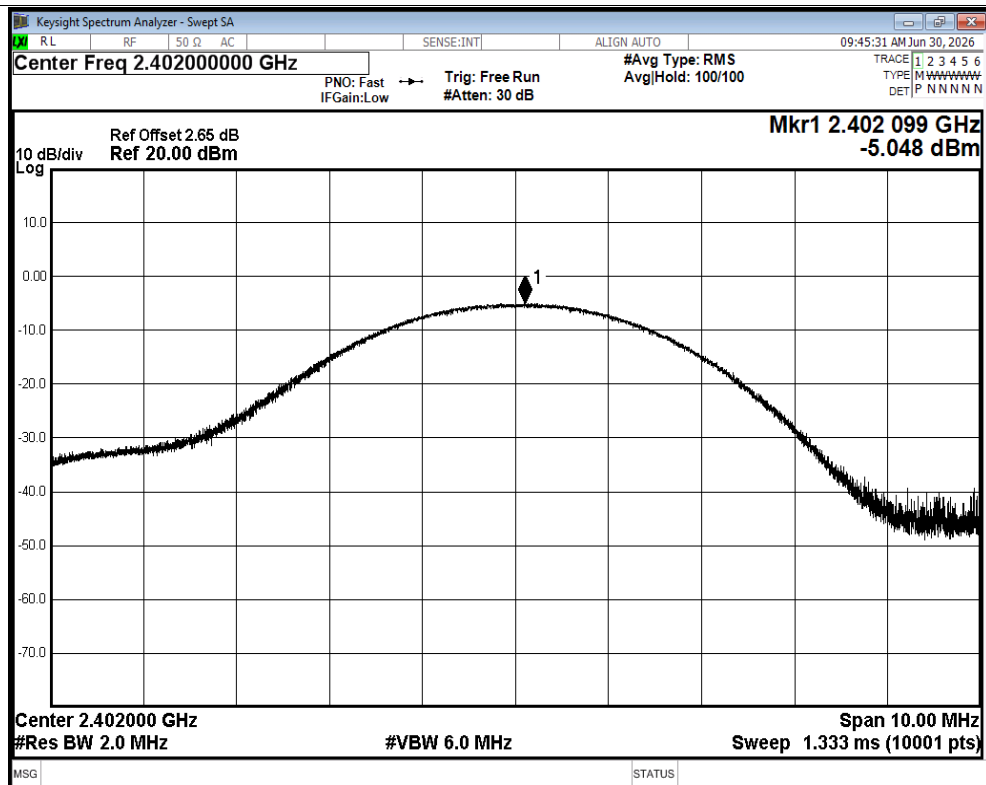


Peak Power NVNT 1-DH5 2441MHz Ant1



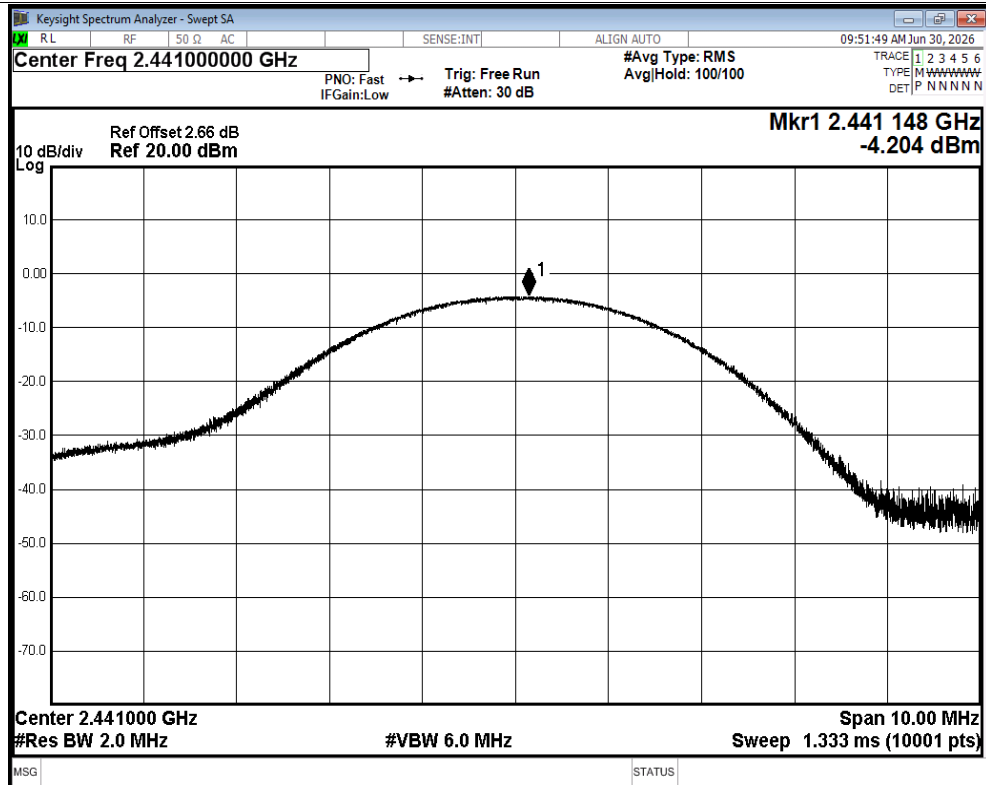


Peak Power NVNT 1-DH5 2480MHz Ant1

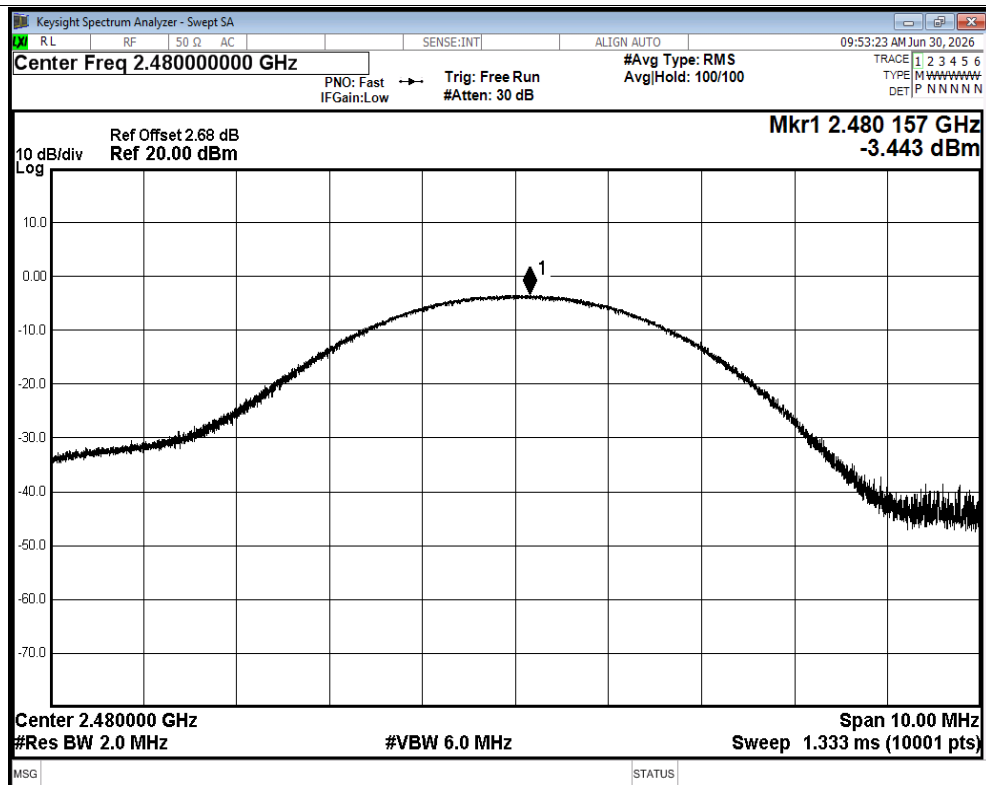


Peak Power NVNT 2-DH5 2402MHz Ant1





Peak Power NVNT 2-DH5 2441MHz Ant1



Peak Power NVNT 2-DH5 2480MHz Ant1

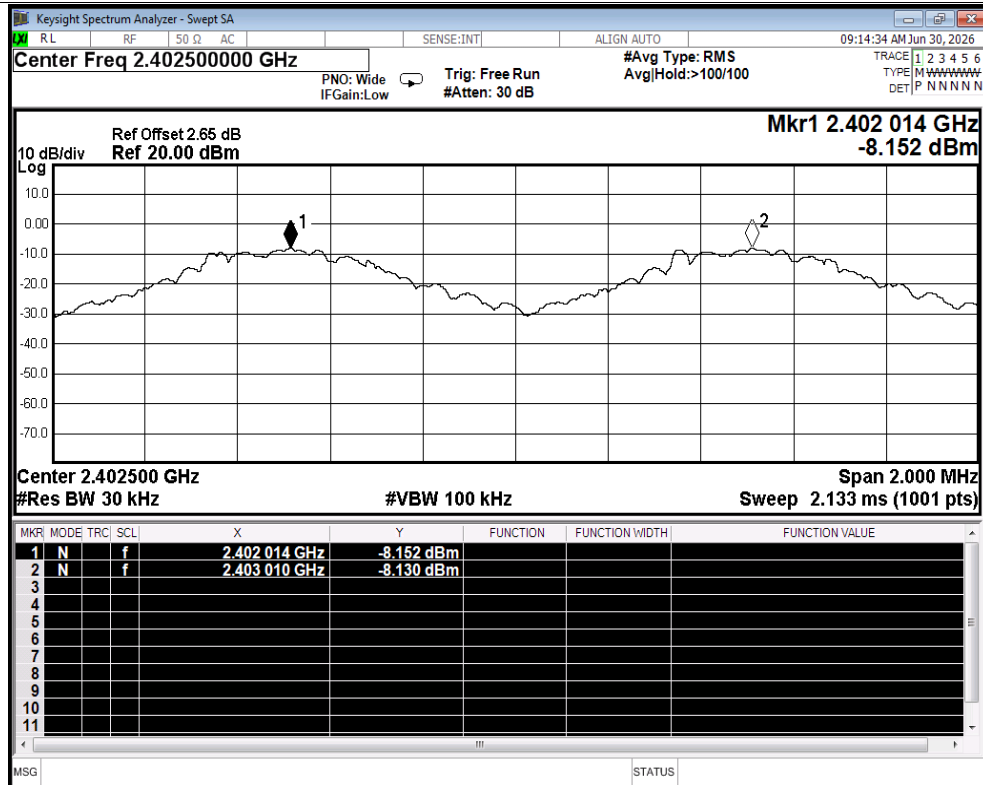




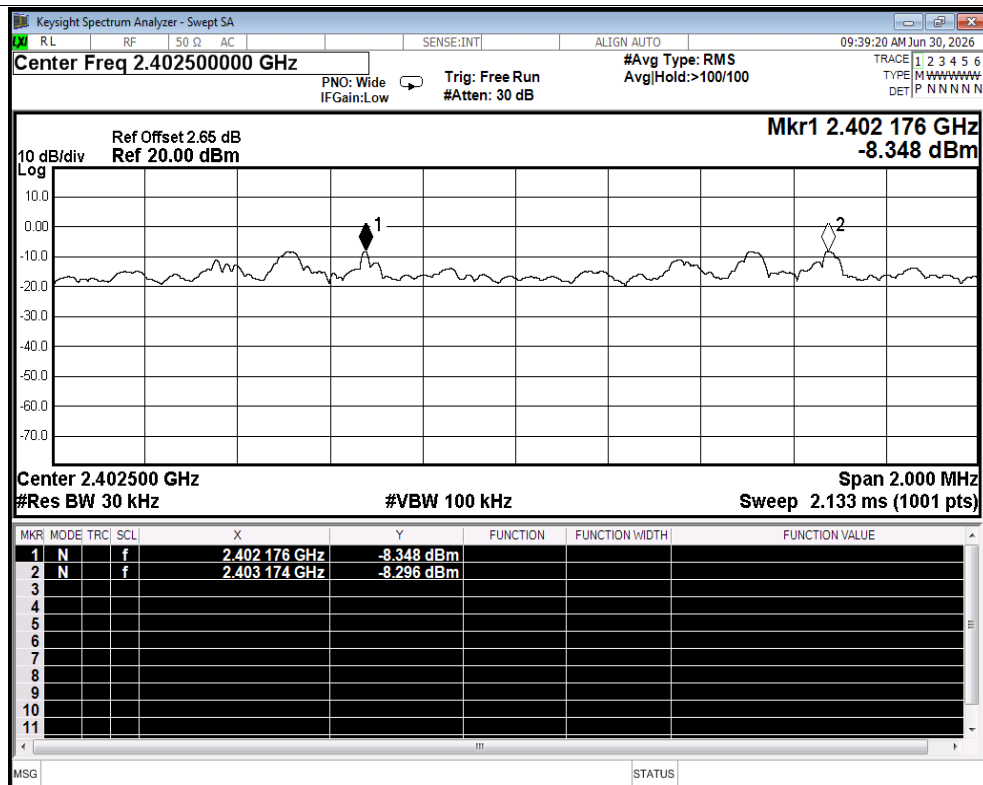
A.3 Carrier Frequencies Separation

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2402.014	2403.01	0.996	0.025	Pass
NVNT	2-DH5	Ant1	2402.176	2403.174	0.998	0.025	Pass





CFS NVNT 1-DH5 2402MHz Ant1



CFS NVNT 2-DH5 2402MHz Ant1

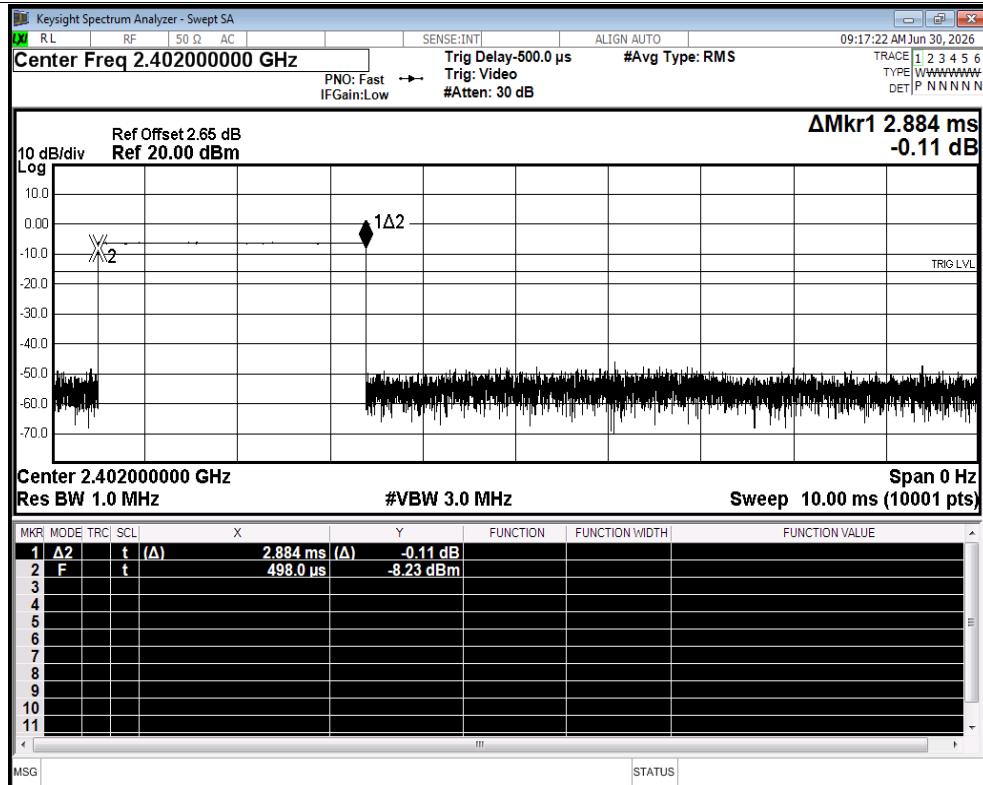




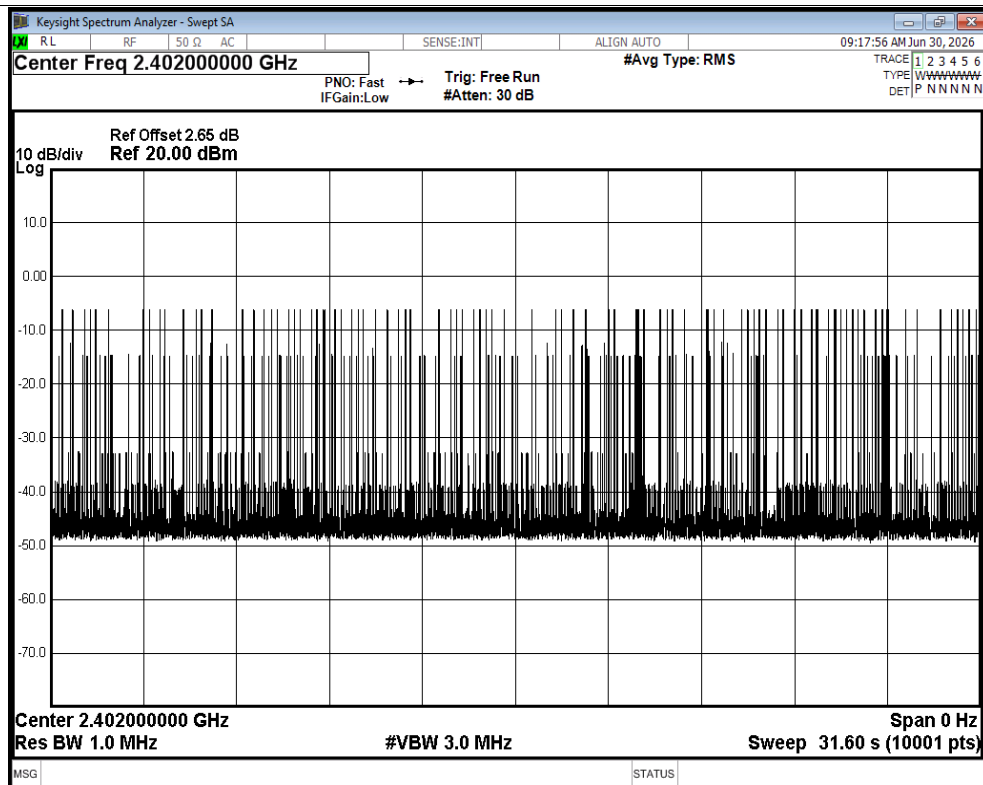
A.4 Dwell Time

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	2.884	325.892	113	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.883	294.066	102	31600	400	Pass



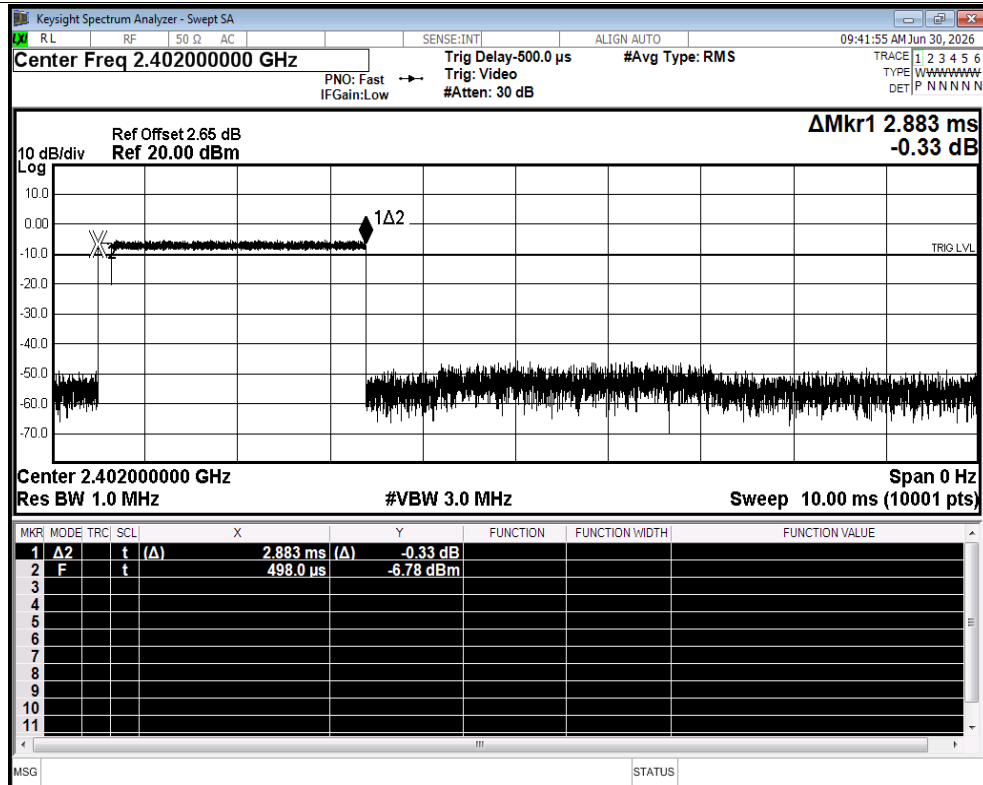


Dwell NVNT 1-DH5 2402MHz Ant1 One Burst

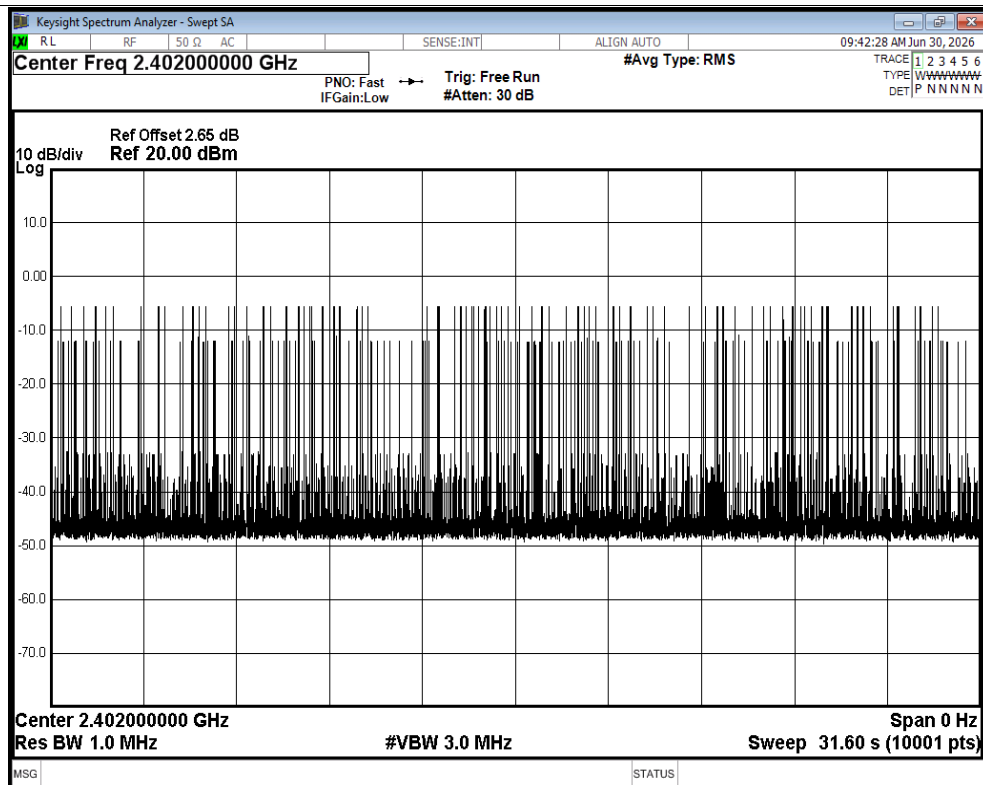


Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated





Dwell NVNT 2-DH5 2402MHz Ant1 One Burst



Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated

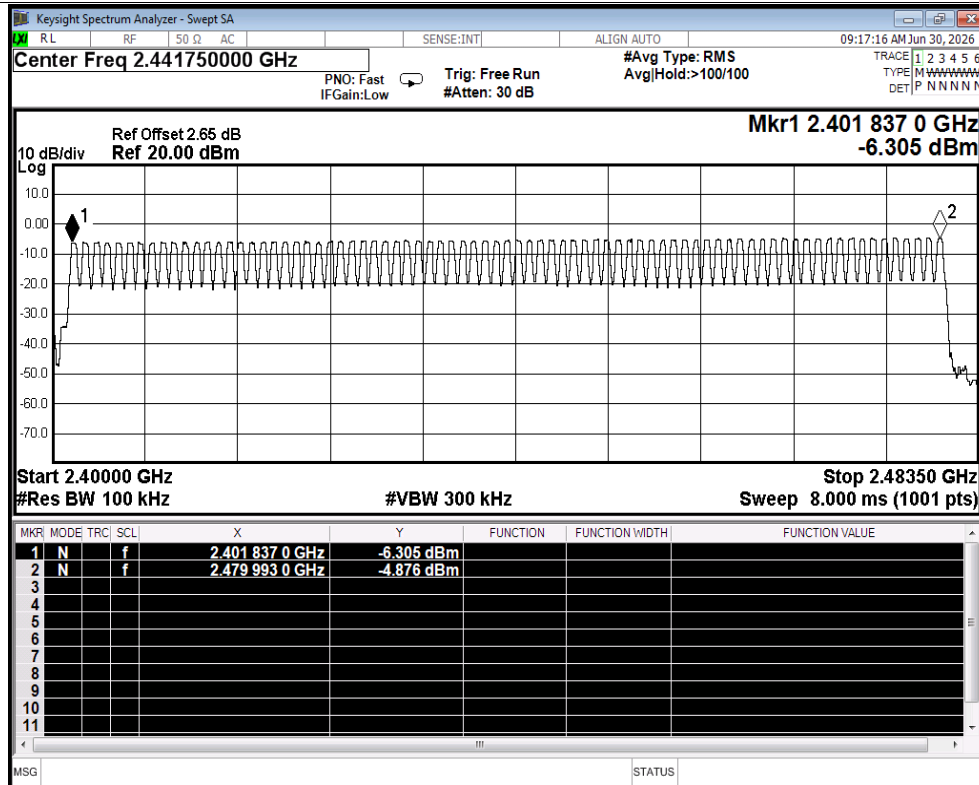




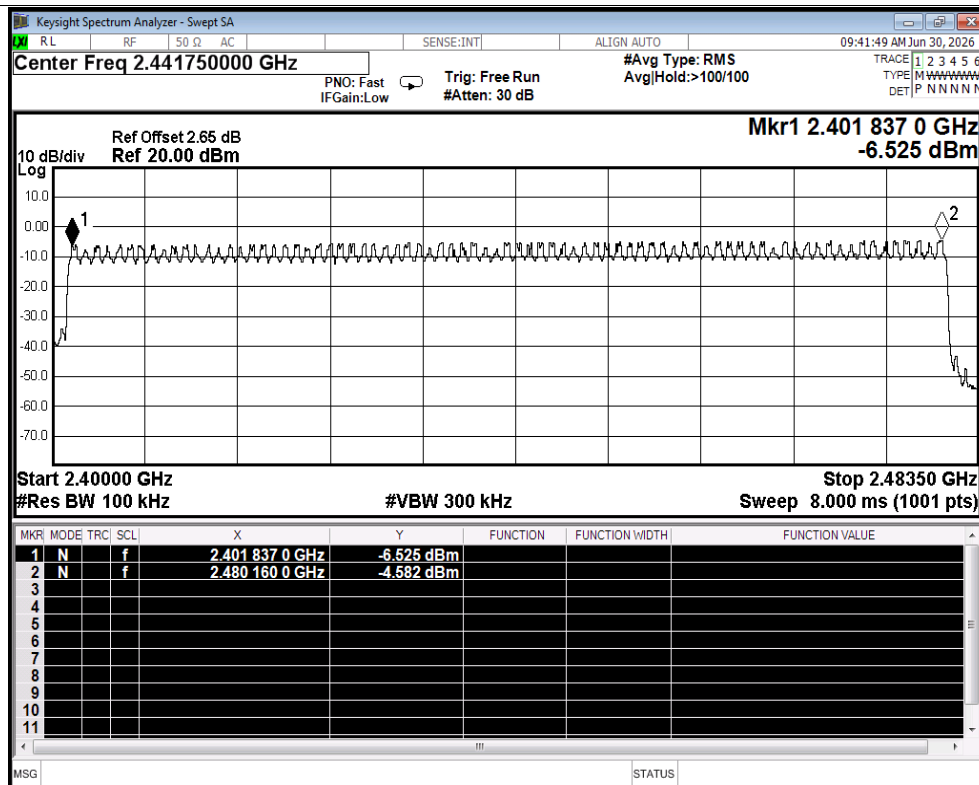
A.5 Number of Hopping Channel

Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH5	Ant1	79	15	Pass
NVNT	2-DH5	Ant1	79	15	Pass





Hopping No. NVNT 1-DH5 2402MHz Ant1



Hopping No. NVNT 2-DH5 2402MHz Ant1

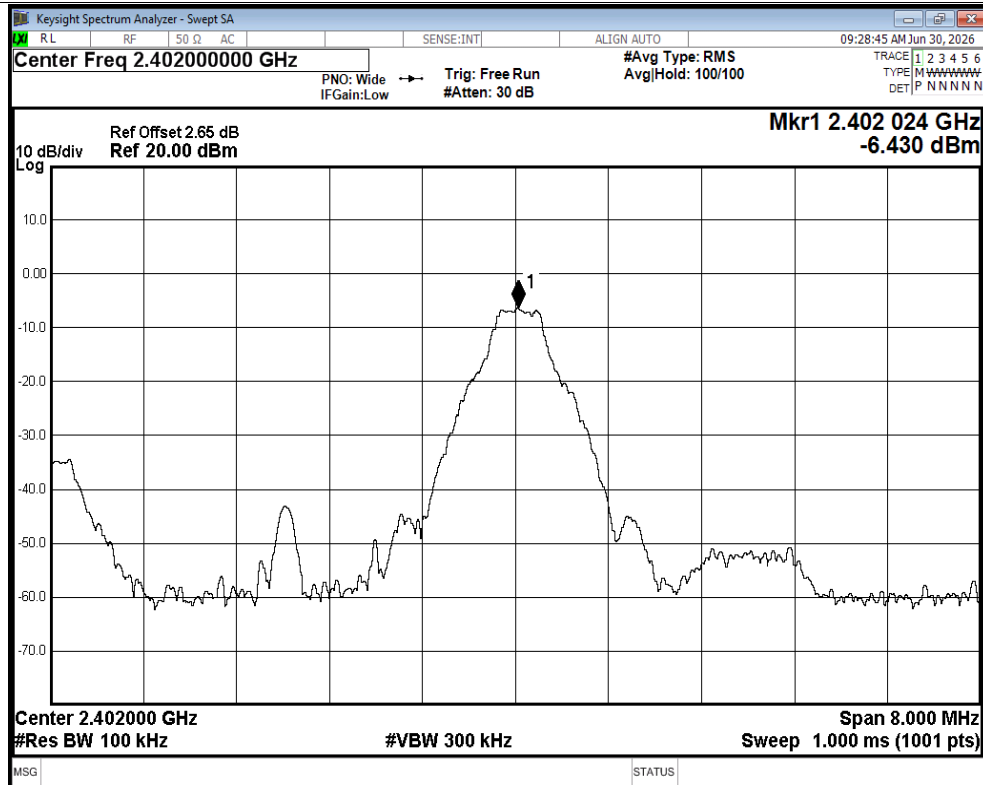




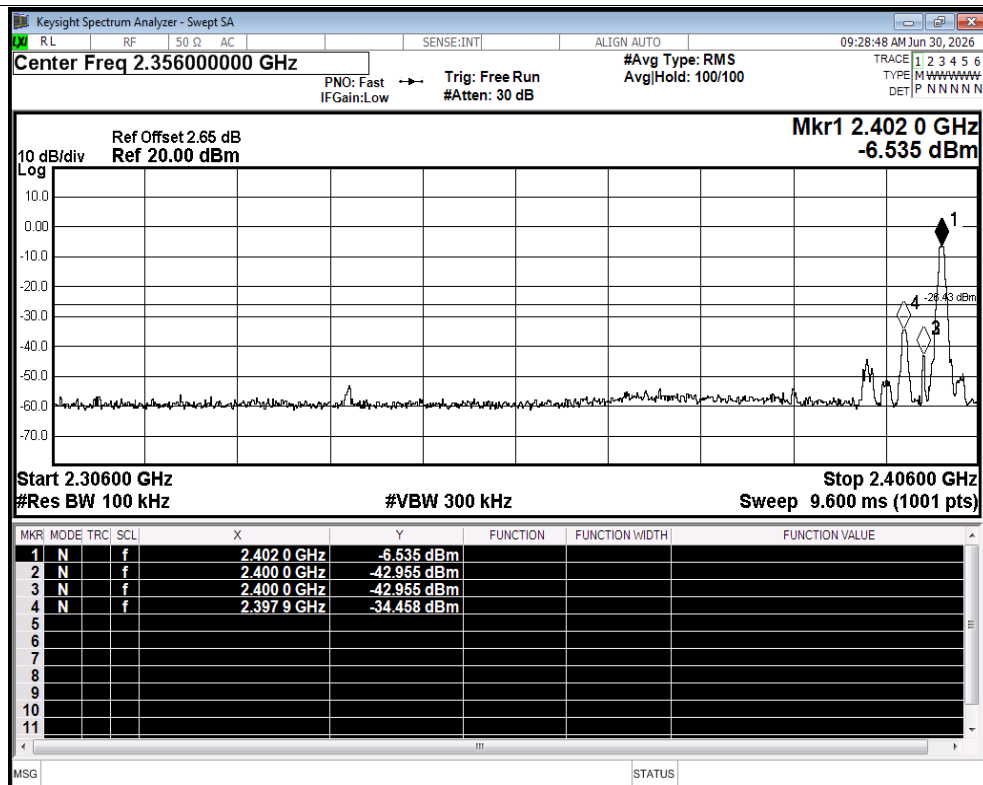
A.6 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-28.02	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-47.41	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-27.91	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-46.78	-20	Pass



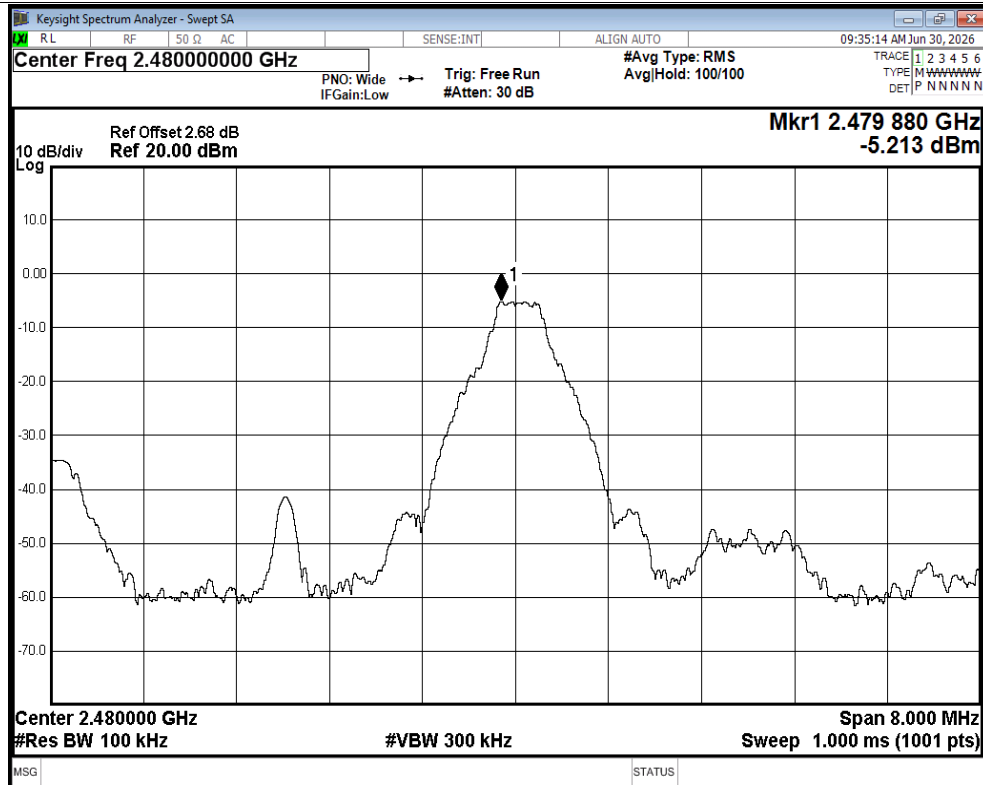


Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Ref

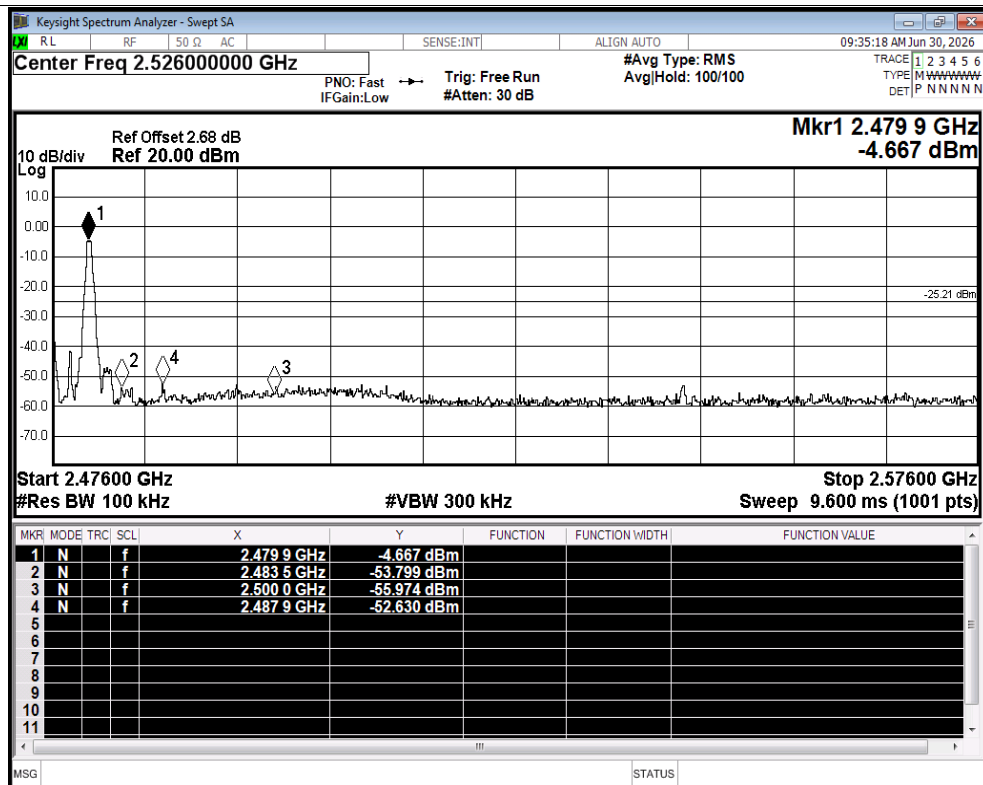


Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission



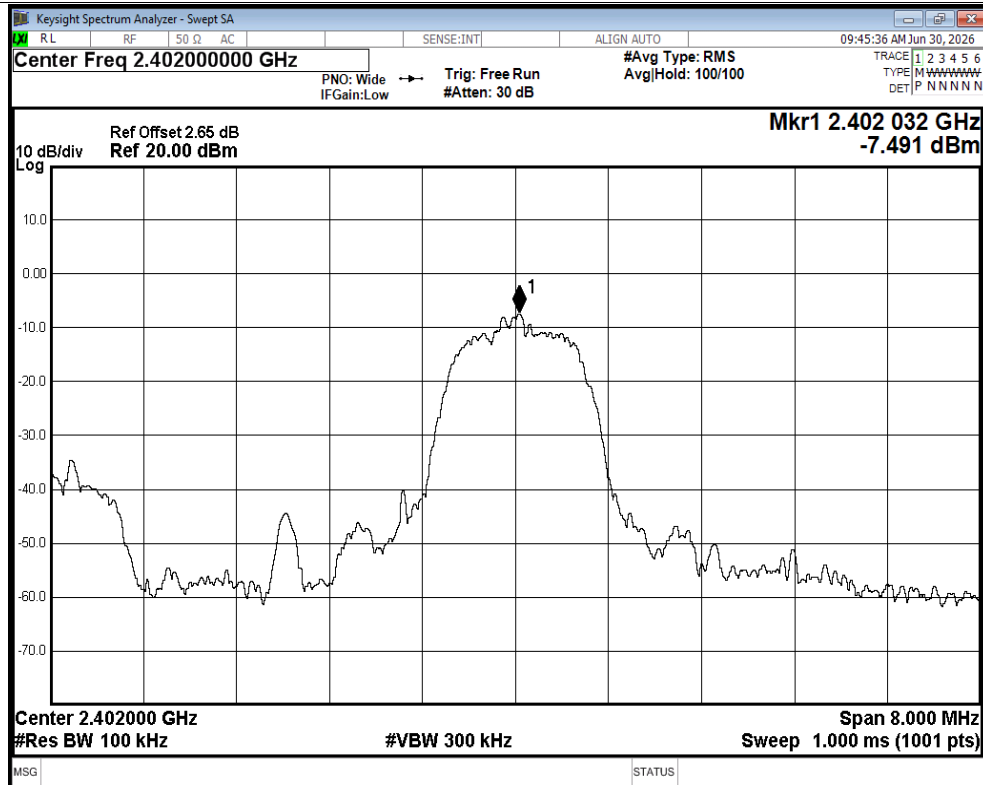


Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref

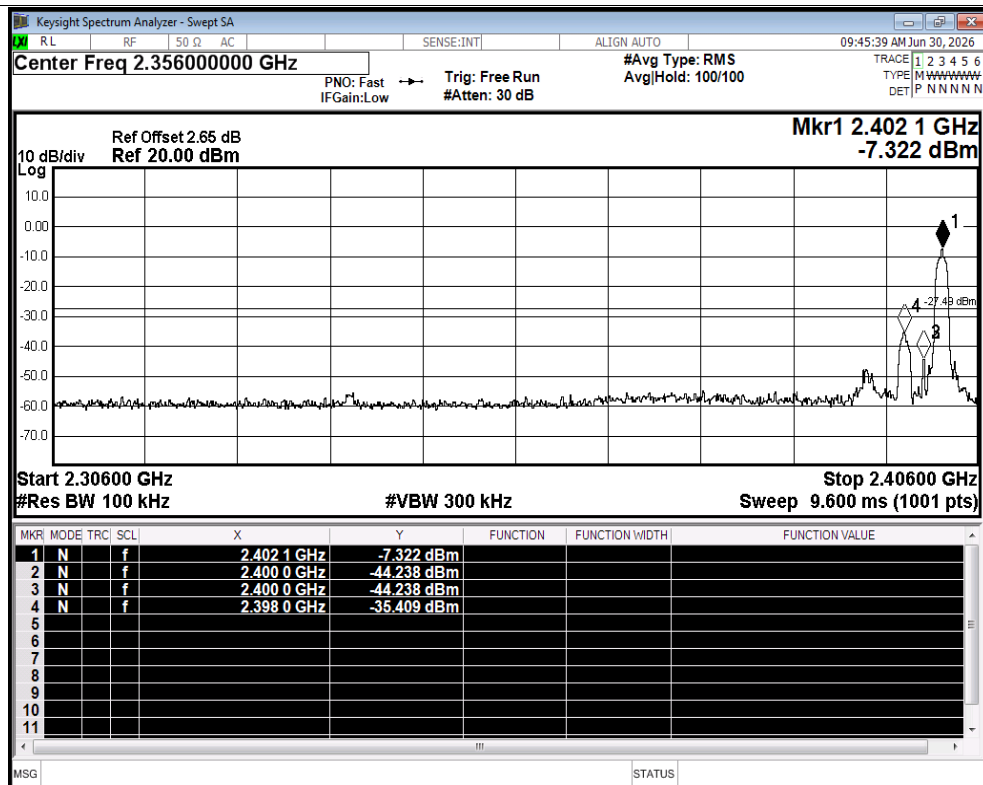


Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission



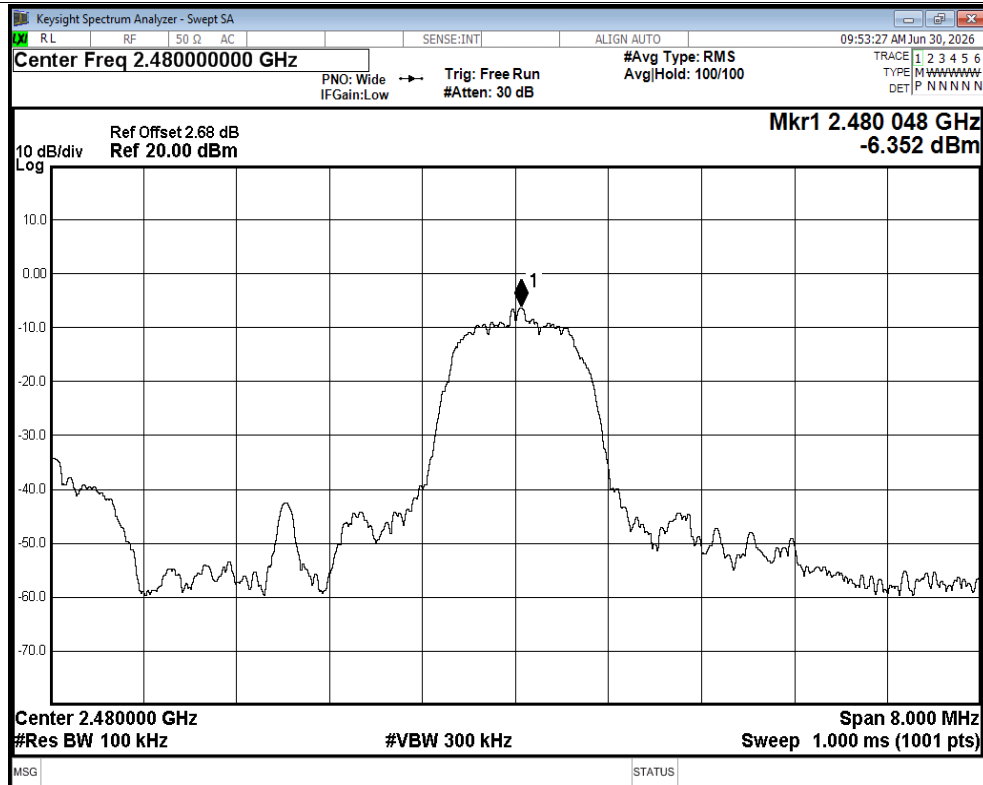


Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref

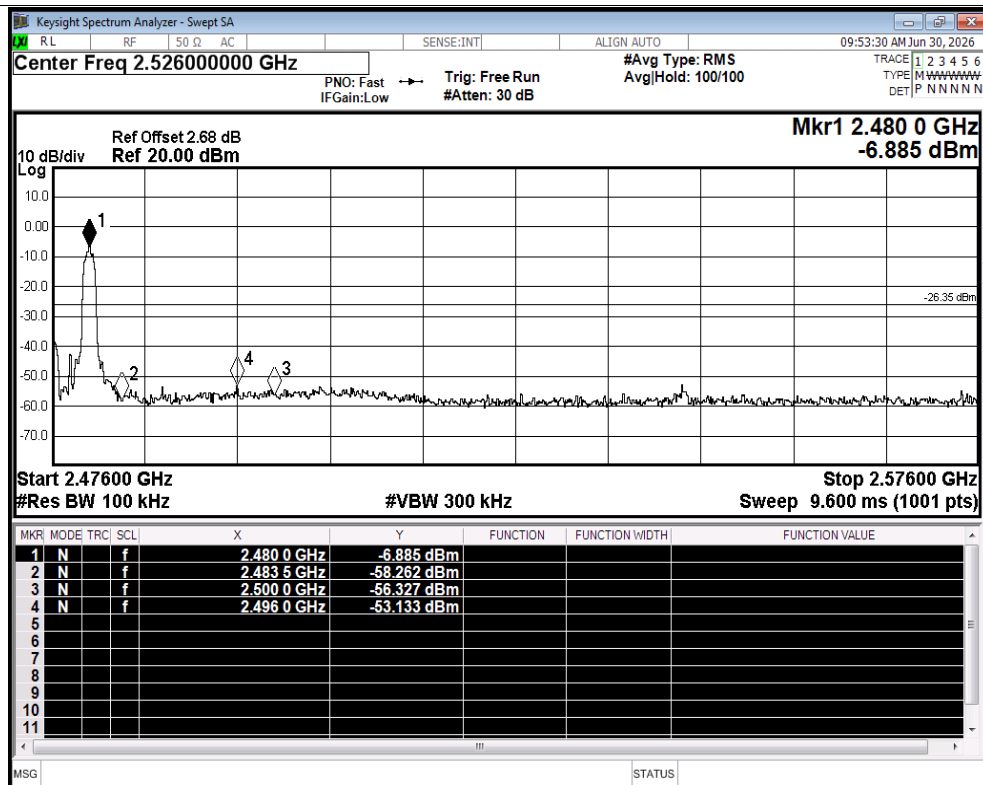


Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission





Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref



Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Emission

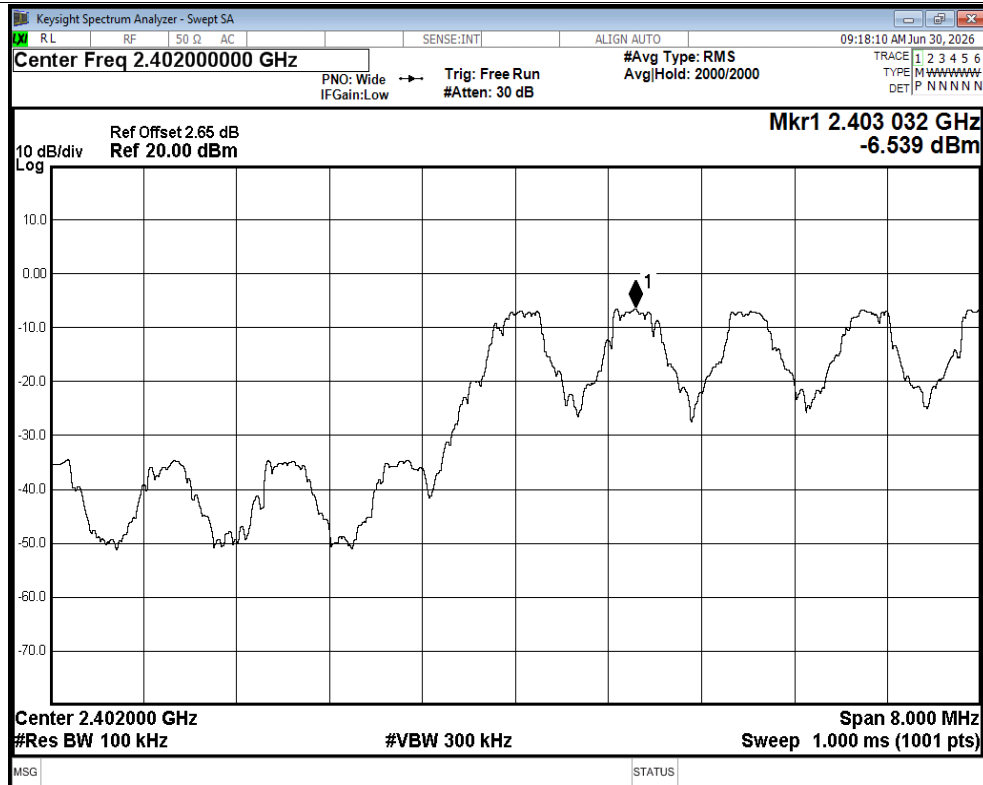




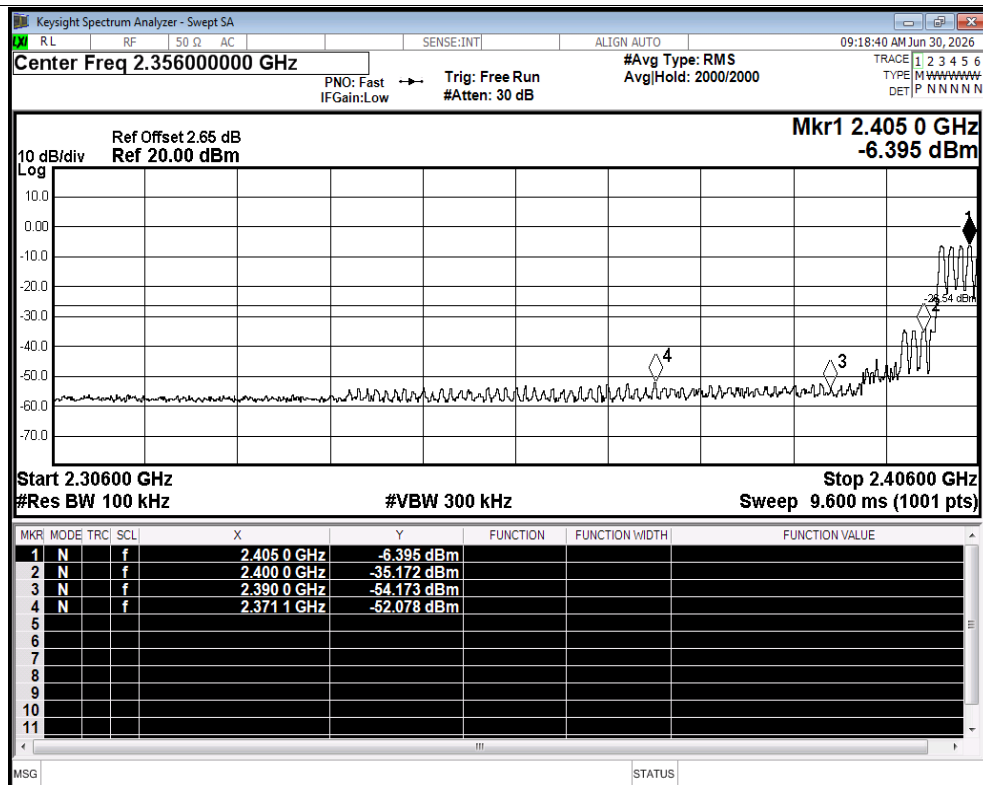
(Hopping)

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-45.53	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-47.06	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-46.84	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-47.54	-20	Pass



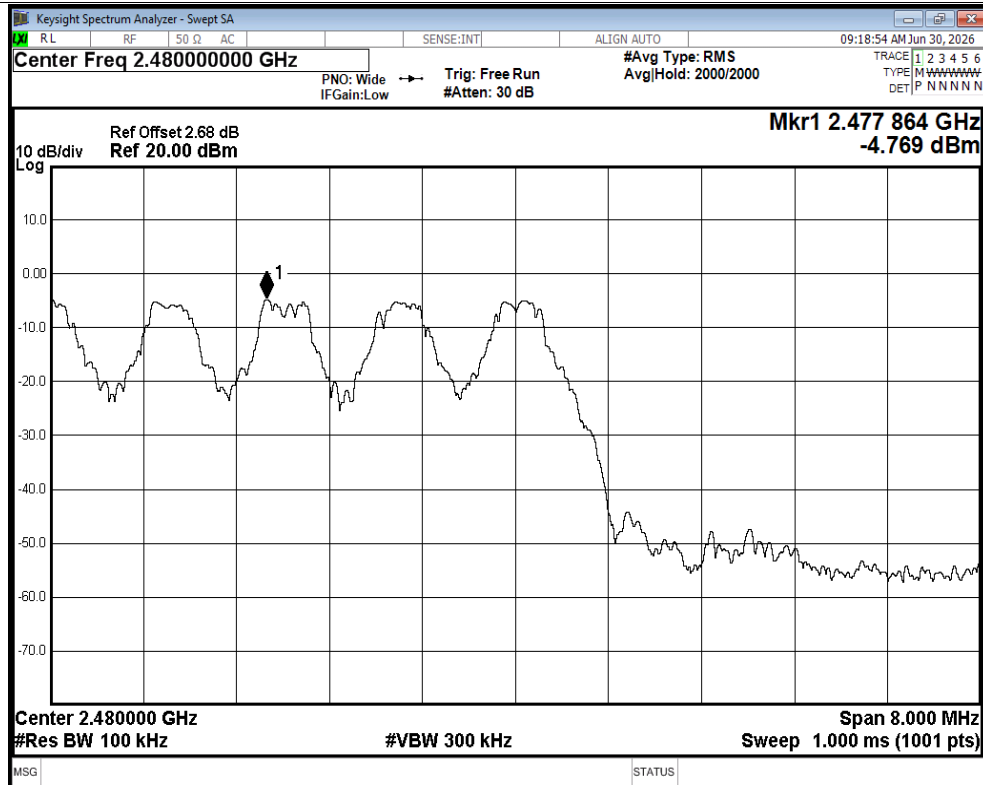


Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Ref

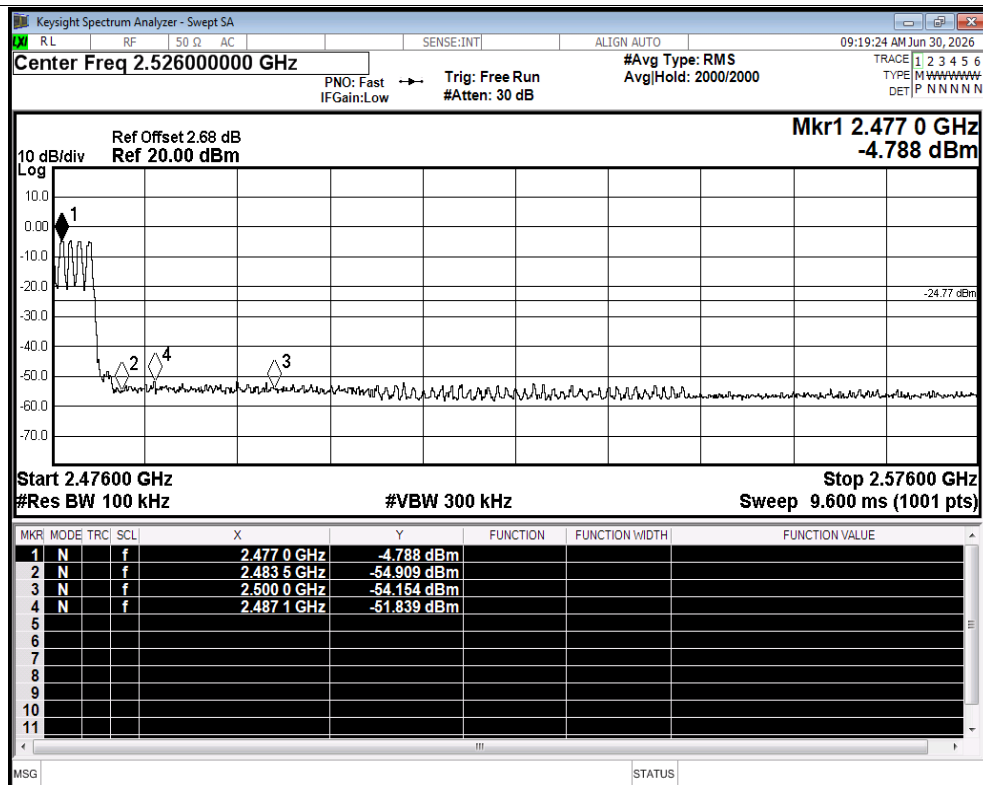


Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission



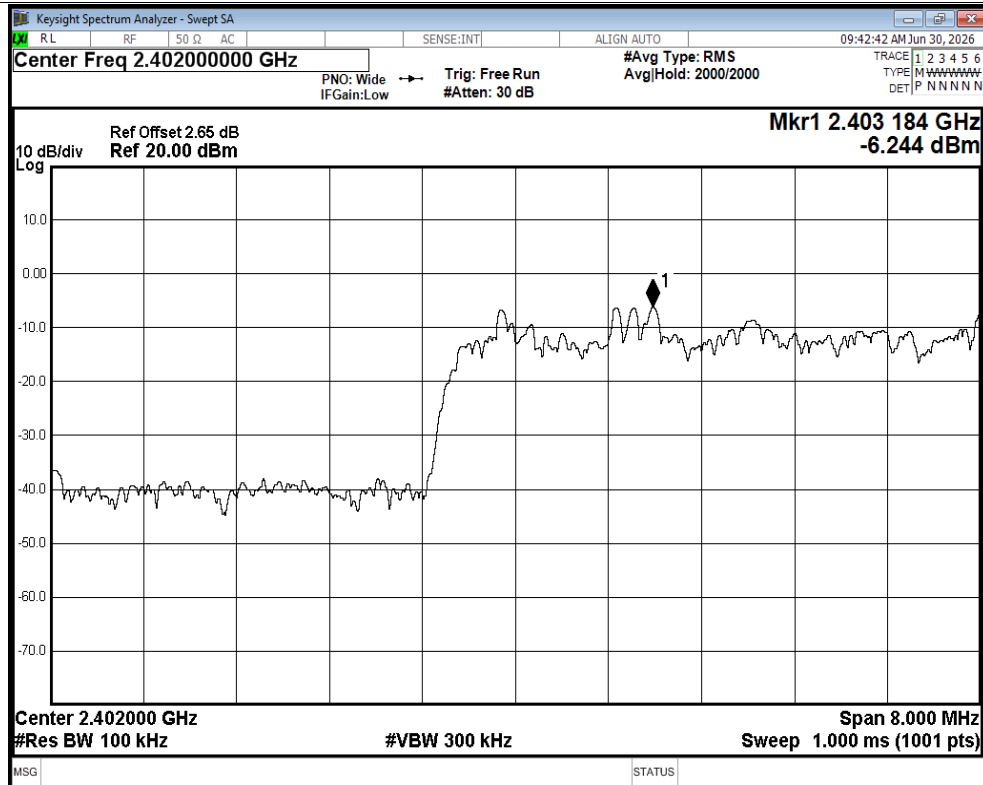


Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Ref

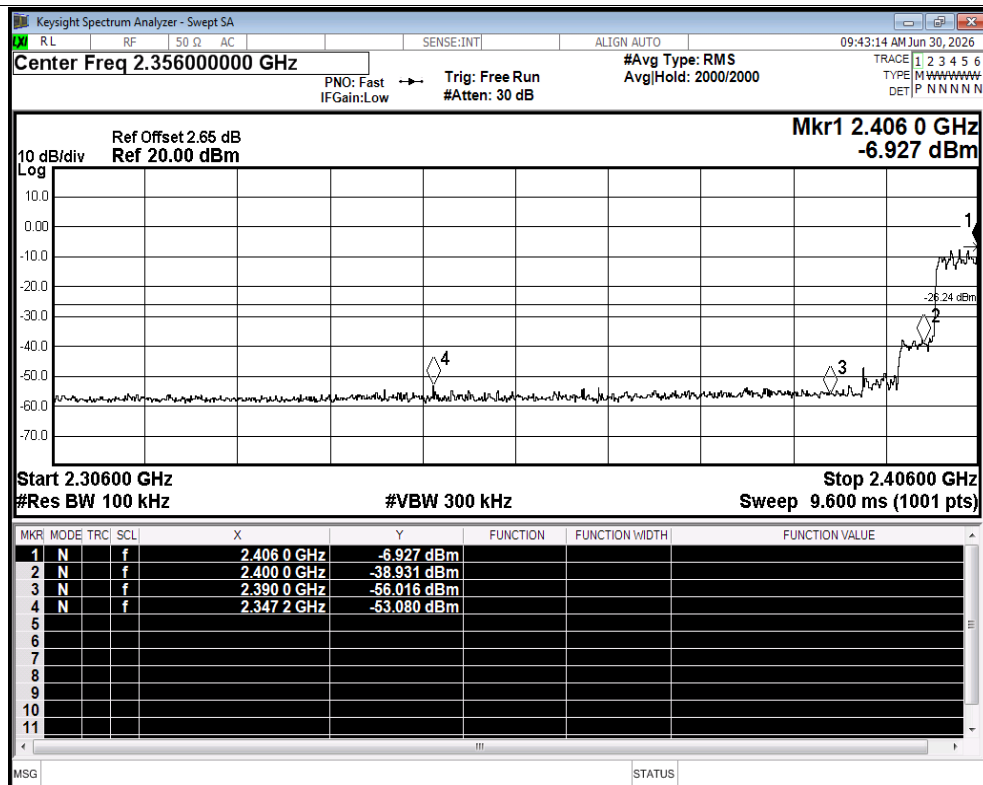


Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Emission



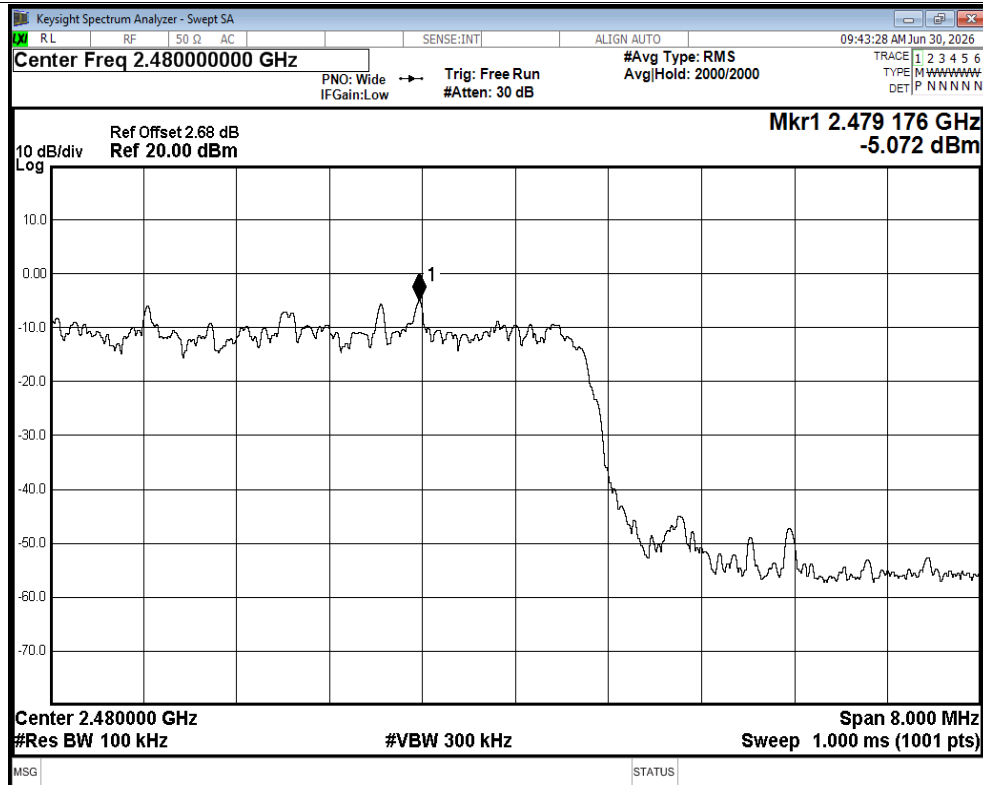


Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Ref

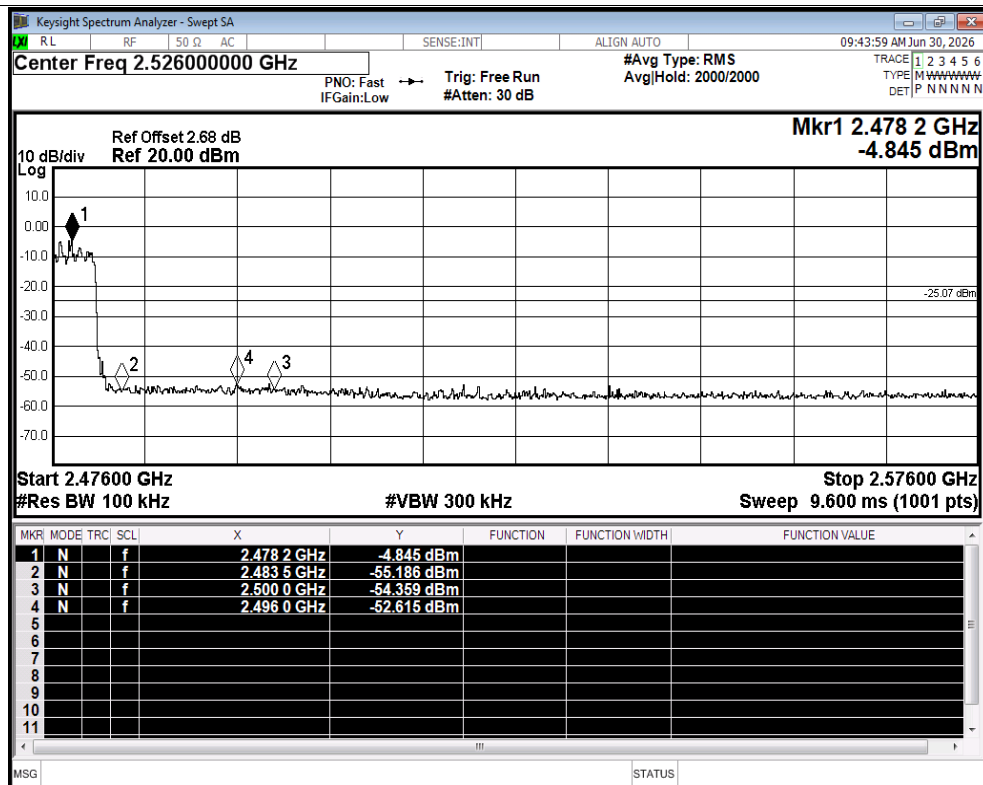


Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Emission





Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Ref



Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Emission

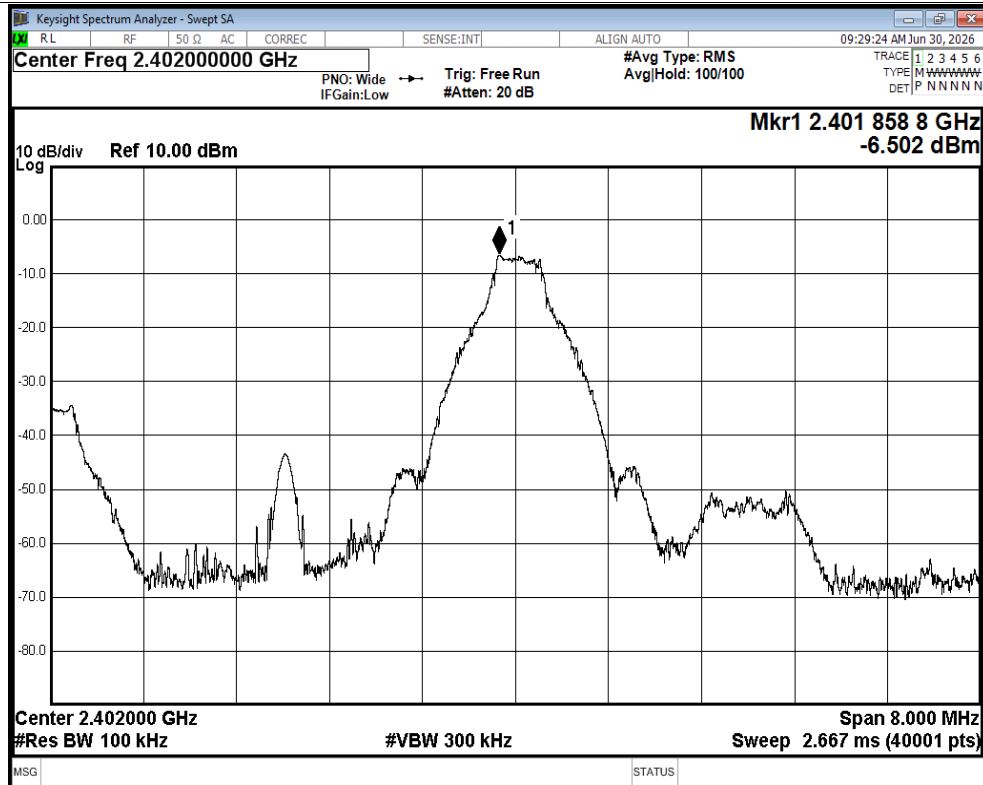
A.7 Conducted RF Spurious Emission



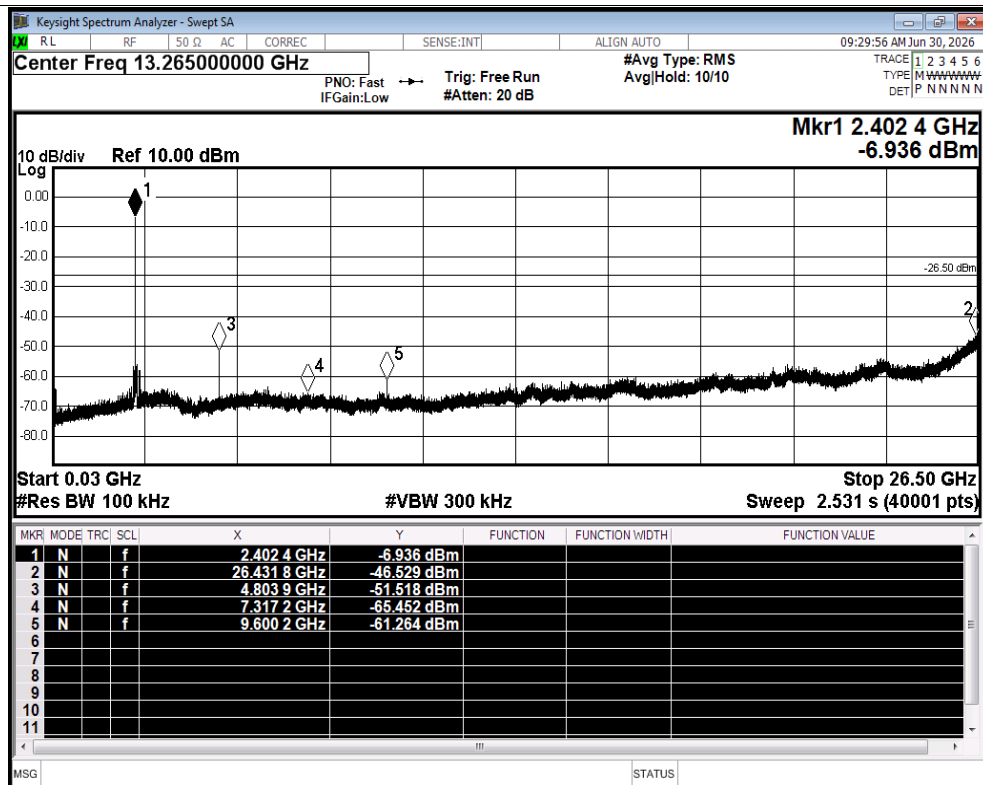


Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-40.02	-20	Pass
NVNT	1-DH5	2441	Ant1	-40	-20	Pass
NVNT	1-DH5	2480	Ant1	-41.51	-20	Pass
NVNT	2-DH5	2402	Ant1	-39.99	-20	Pass
NVNT	2-DH5	2441	Ant1	-40.55	-20	Pass
NVNT	2-DH5	2480	Ant1	-41.45	-20	Pass



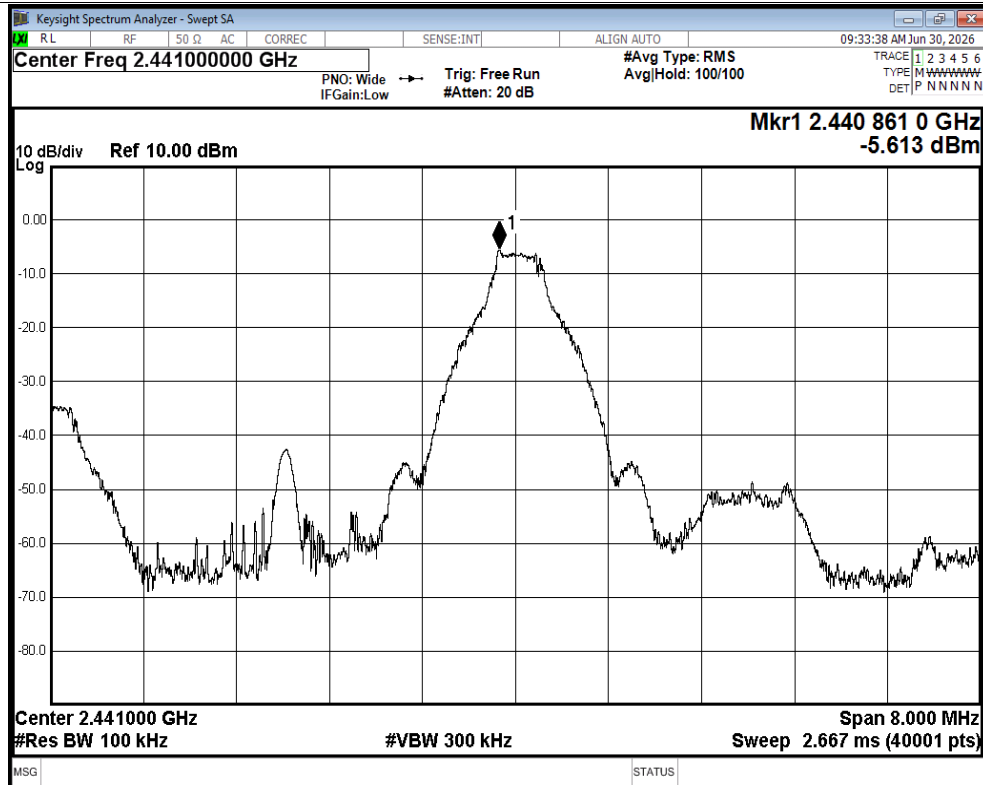


Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref

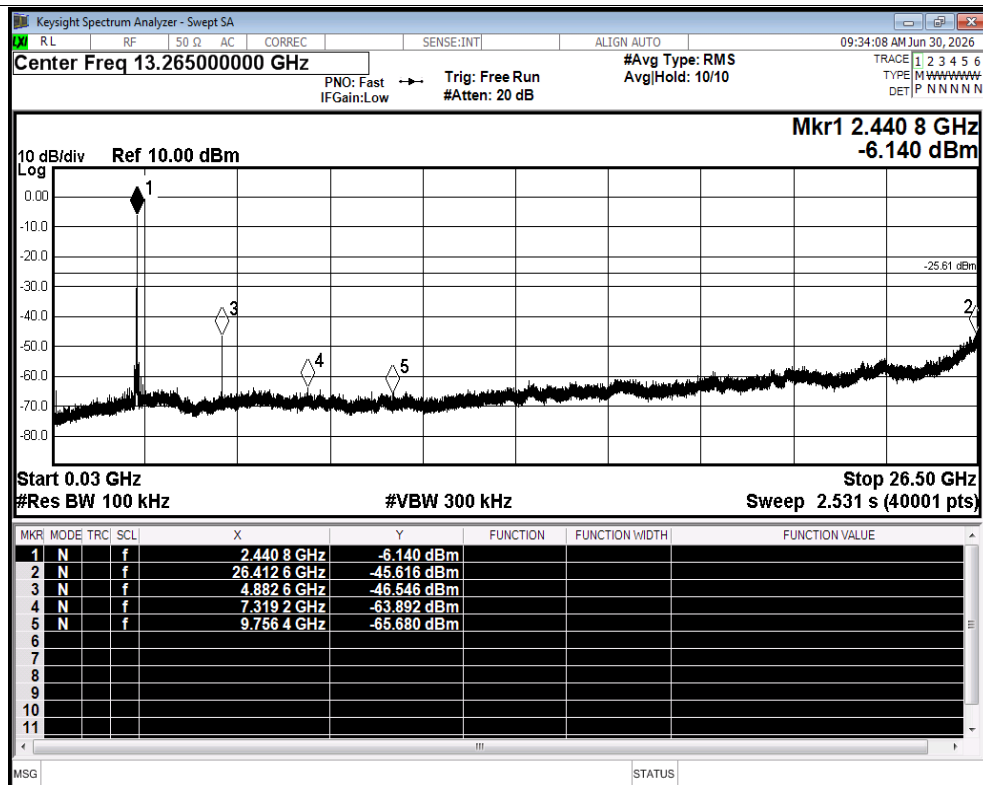


Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission



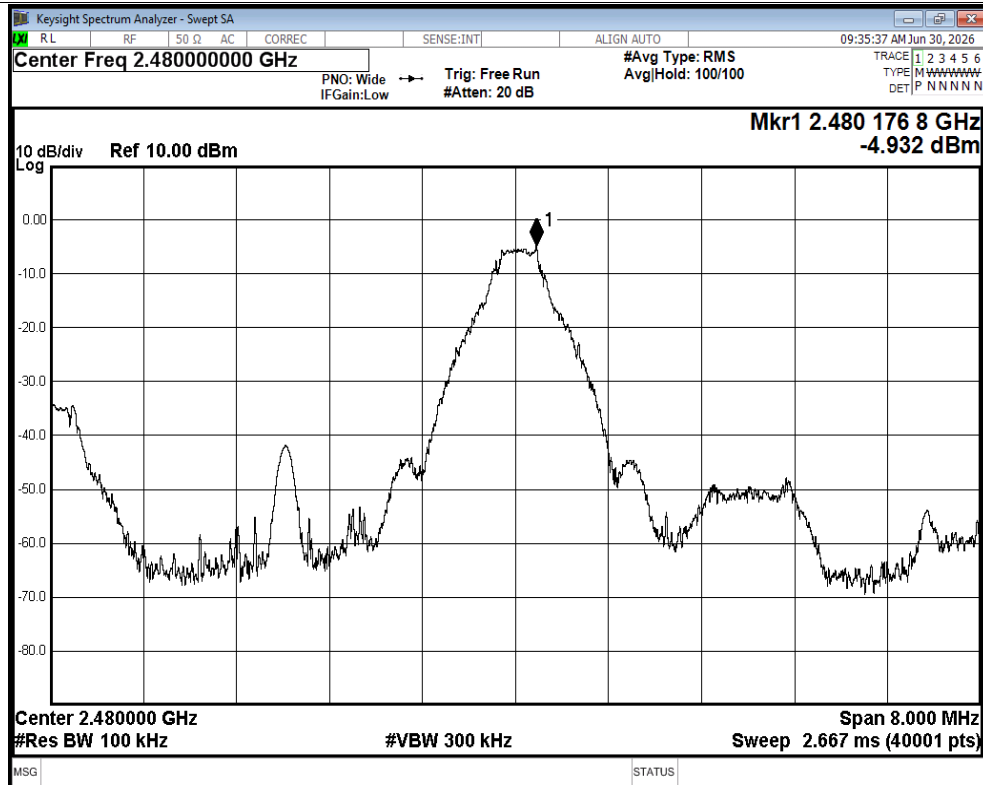


Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref

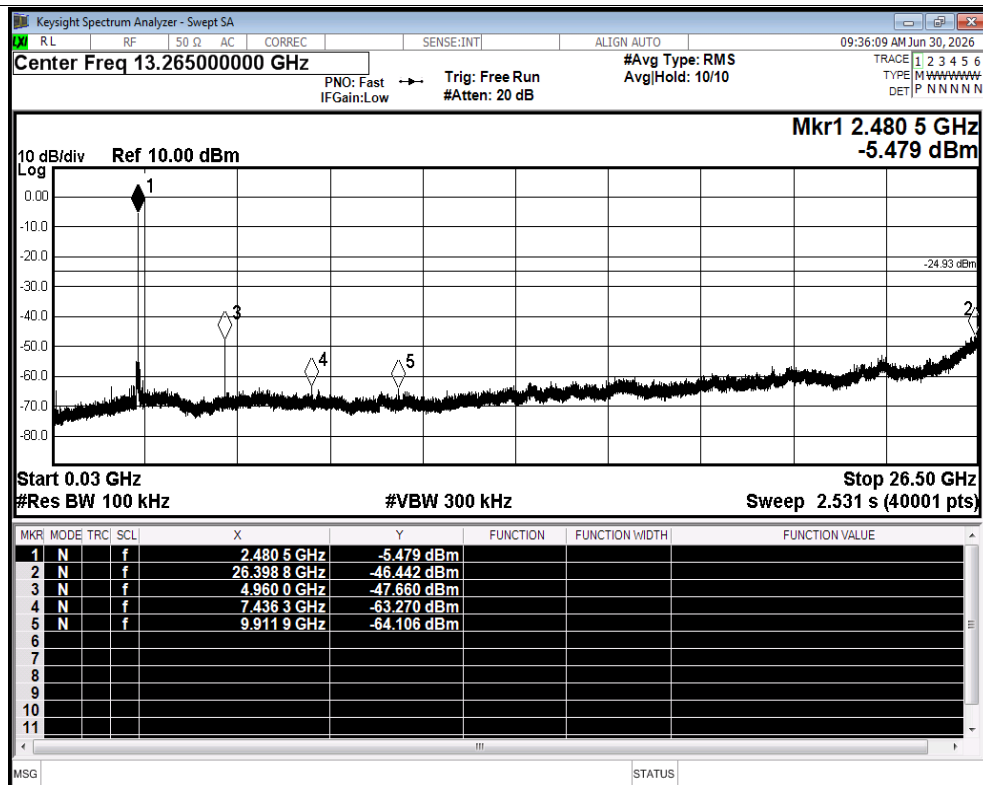


Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission



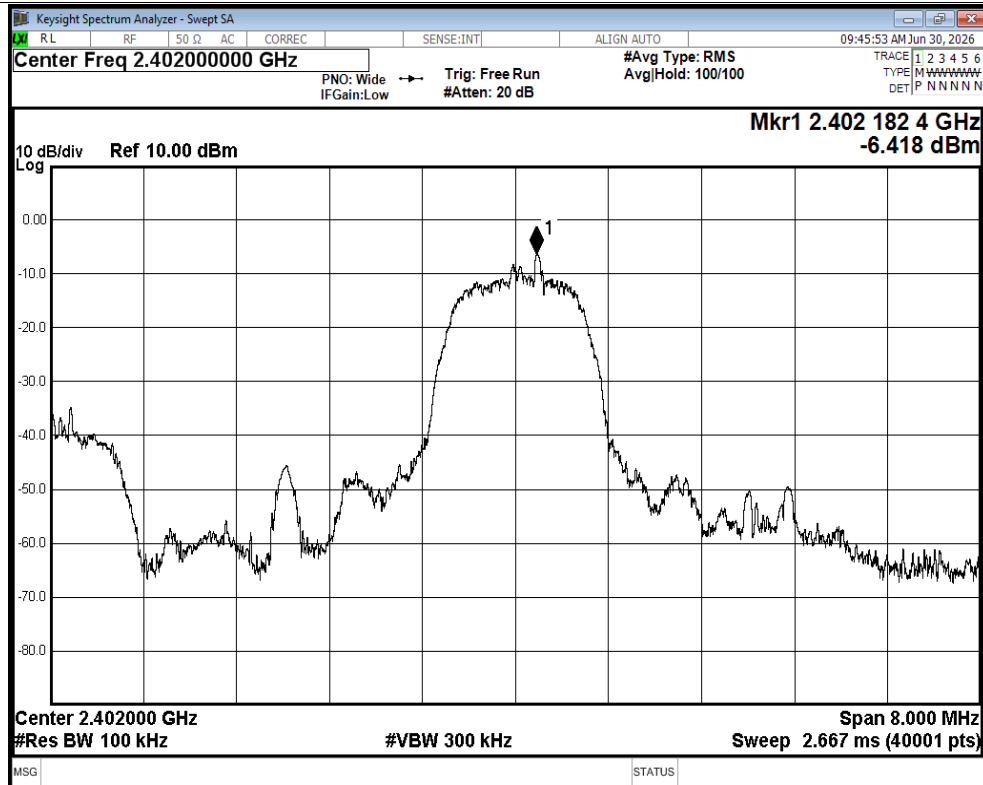


Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref

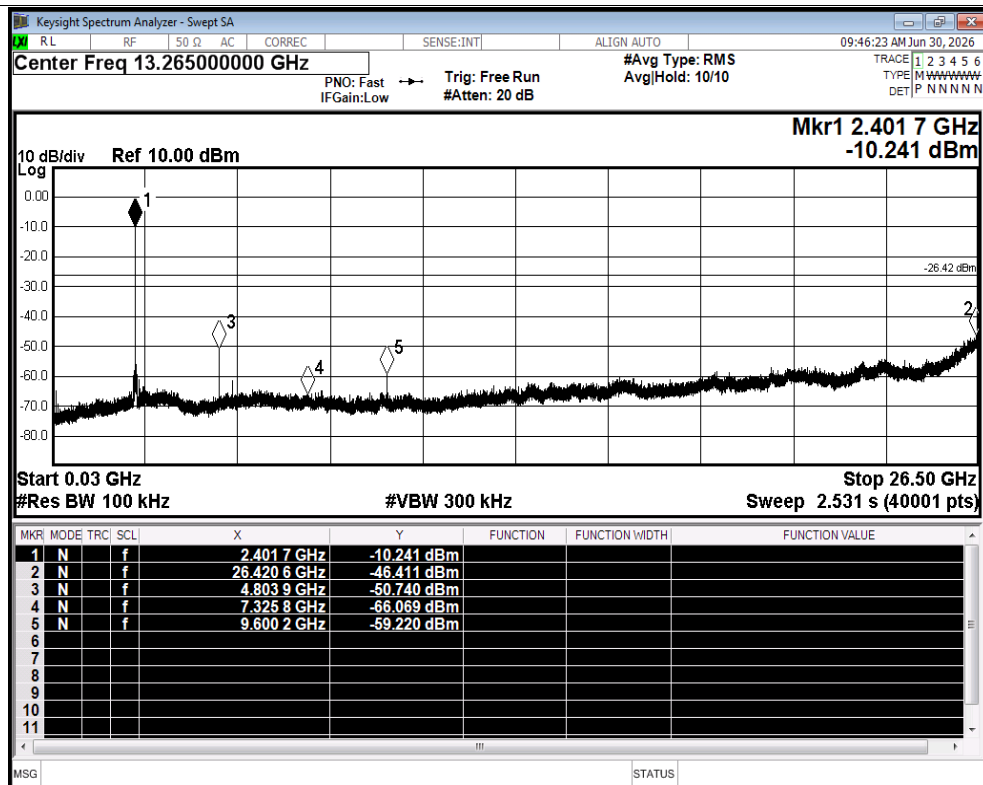


Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission



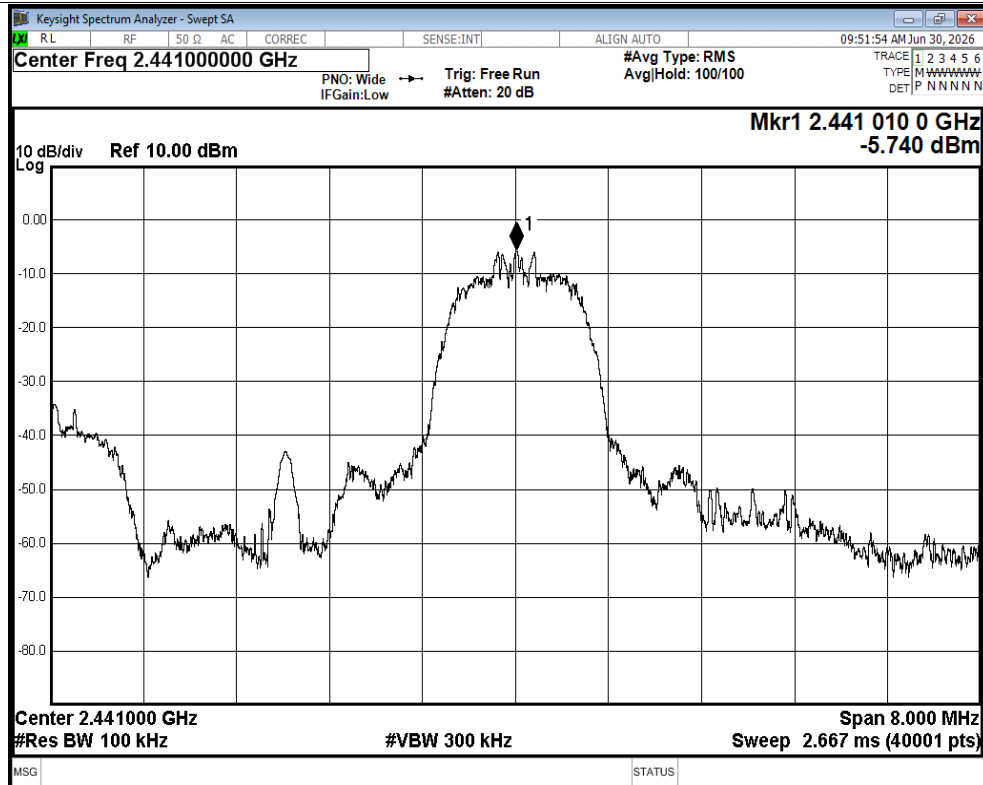


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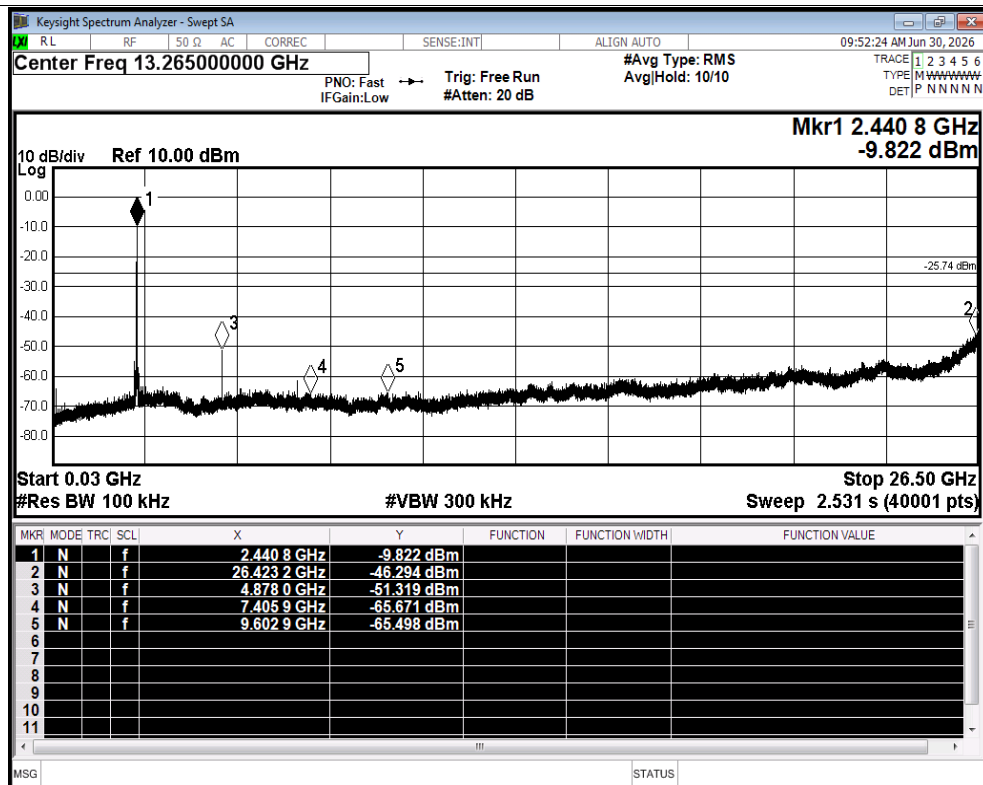


Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission



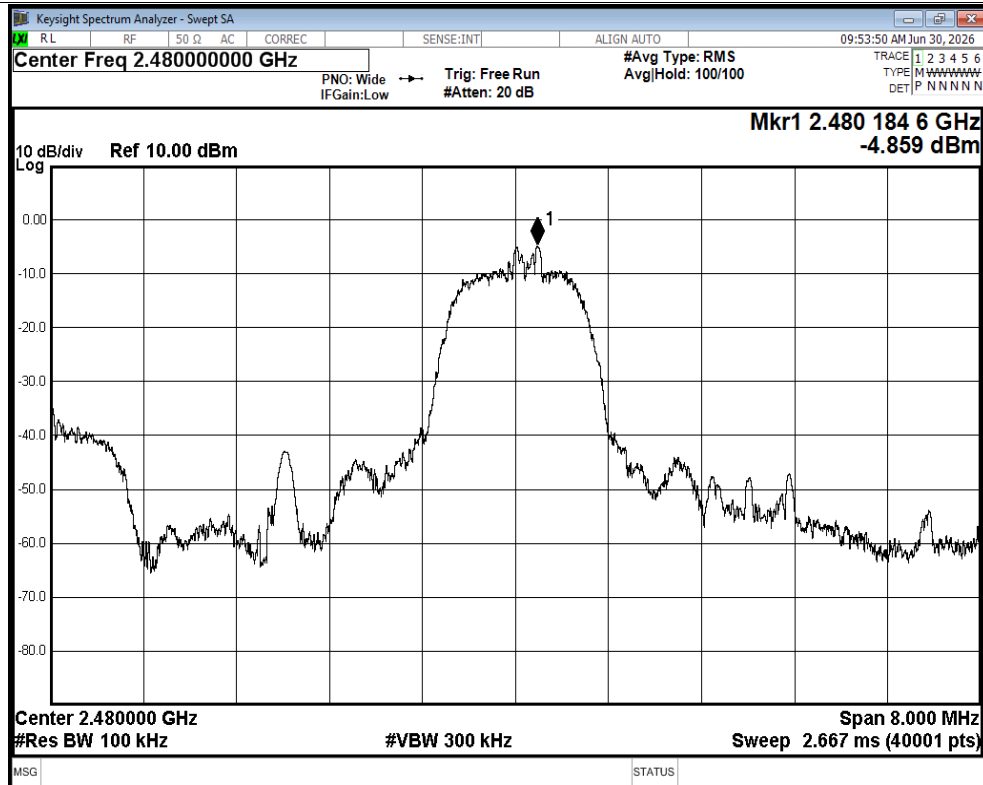


Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref

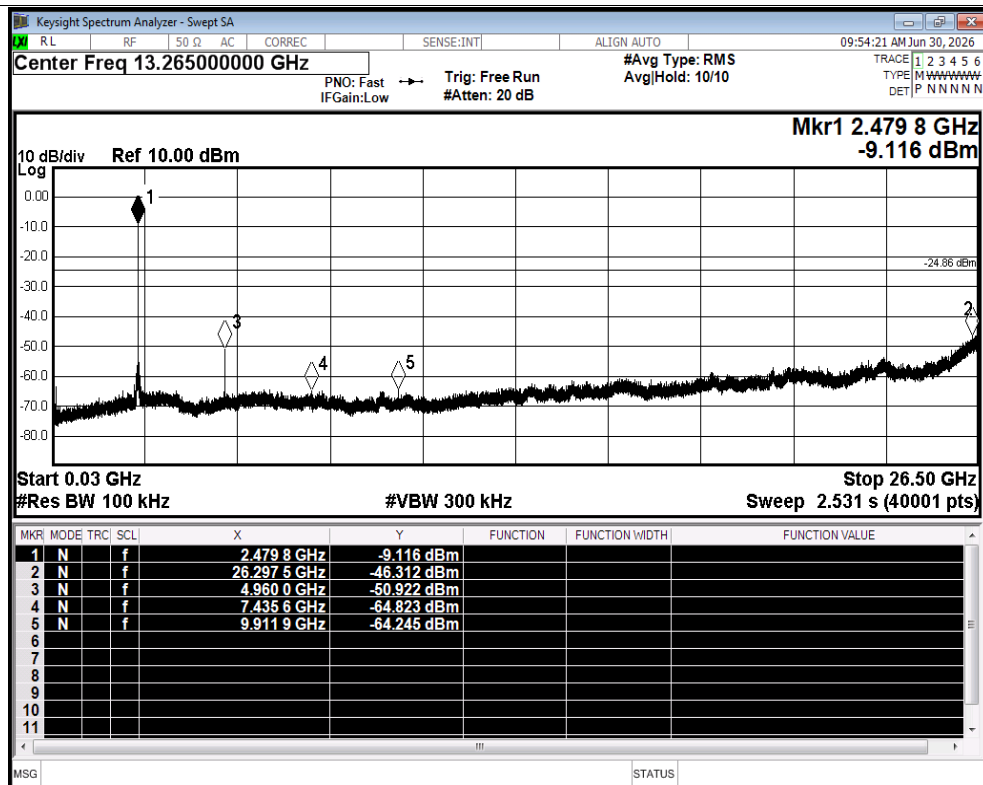


Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission





Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Emission

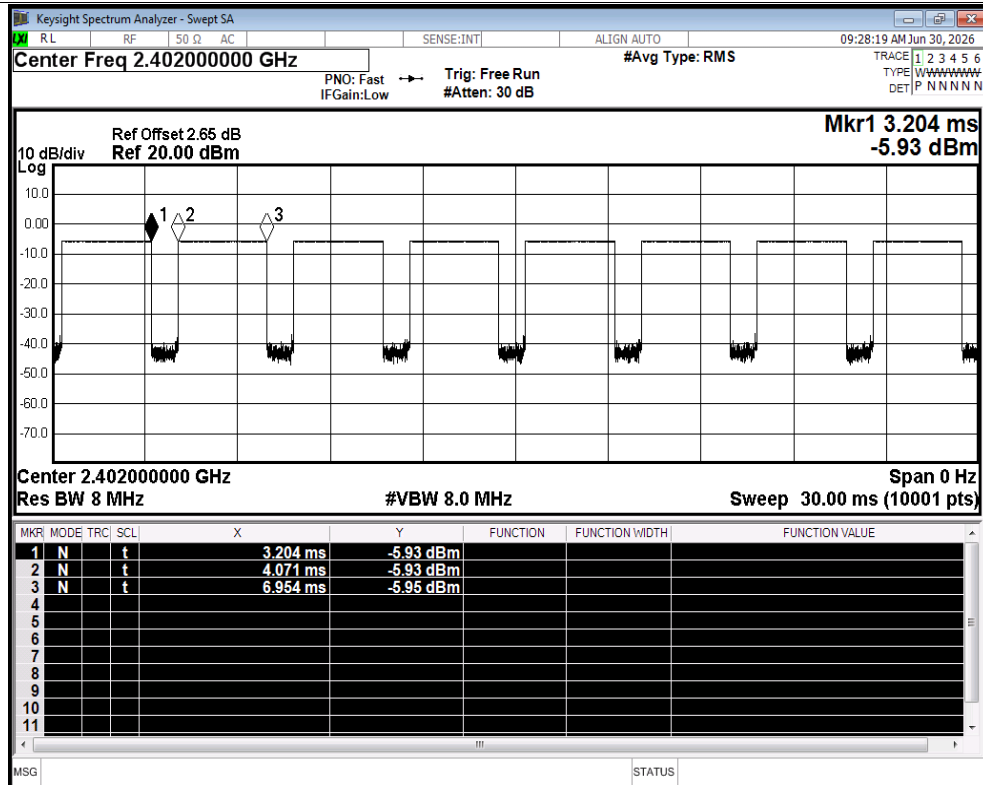




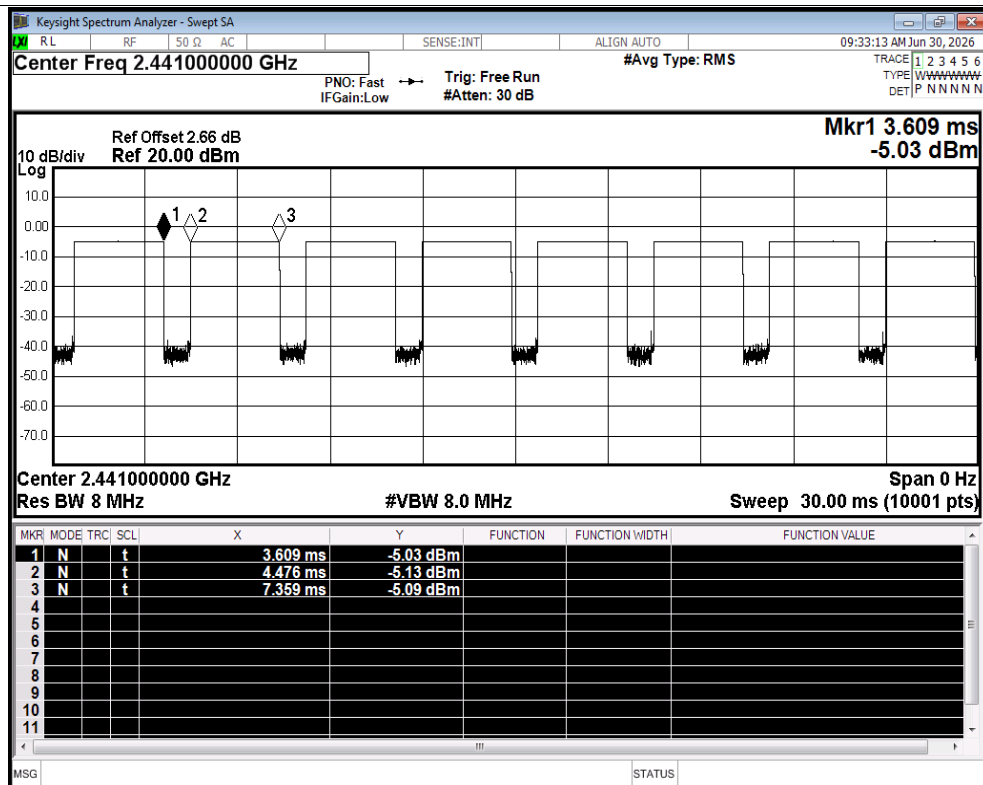
A.8 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	1-DH5	2402	Ant1	76.88	1.14	0.35
NVNT	1-DH5	2441	Ant1	76.88	1.14	0.35
NVNT	1-DH5	2480	Ant1	76.88	1.14	0.35
NVNT	2-DH5	2402	Ant1	13.55	8.68	7.41
NVNT	2-DH5	2441	Ant1	77.12	1.13	0.35
NVNT	2-DH5	2480	Ant1	77.04	1.13	0.35



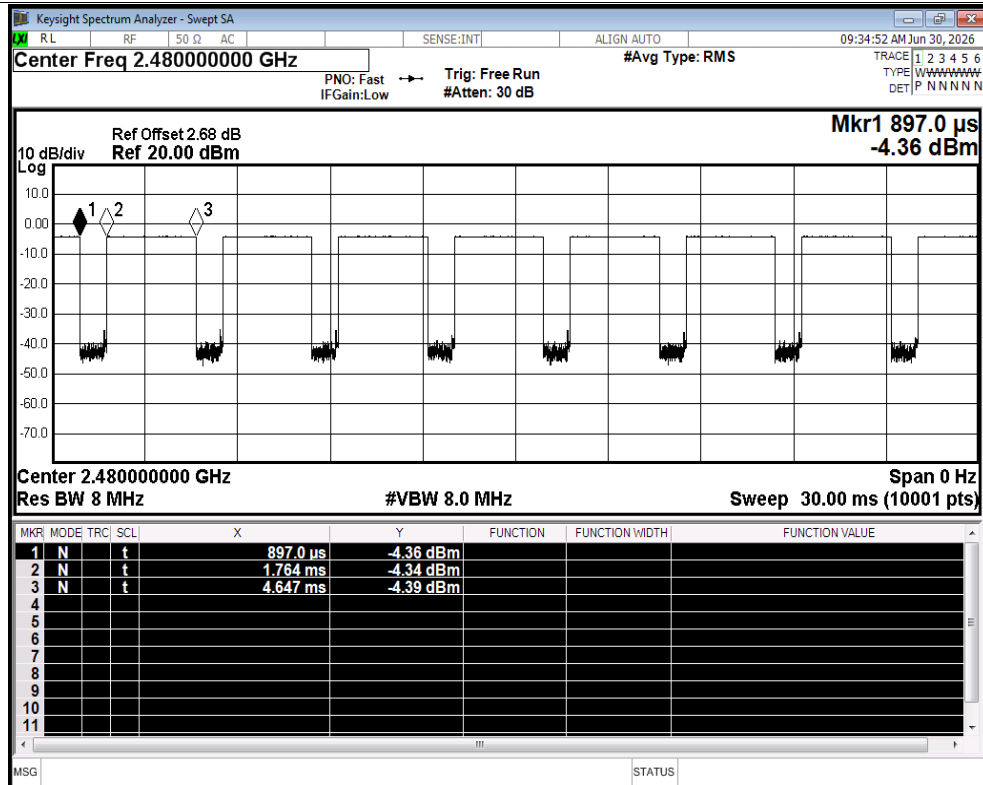


Duty Cycle NVNT 1-DH5 2402MHz Ant1

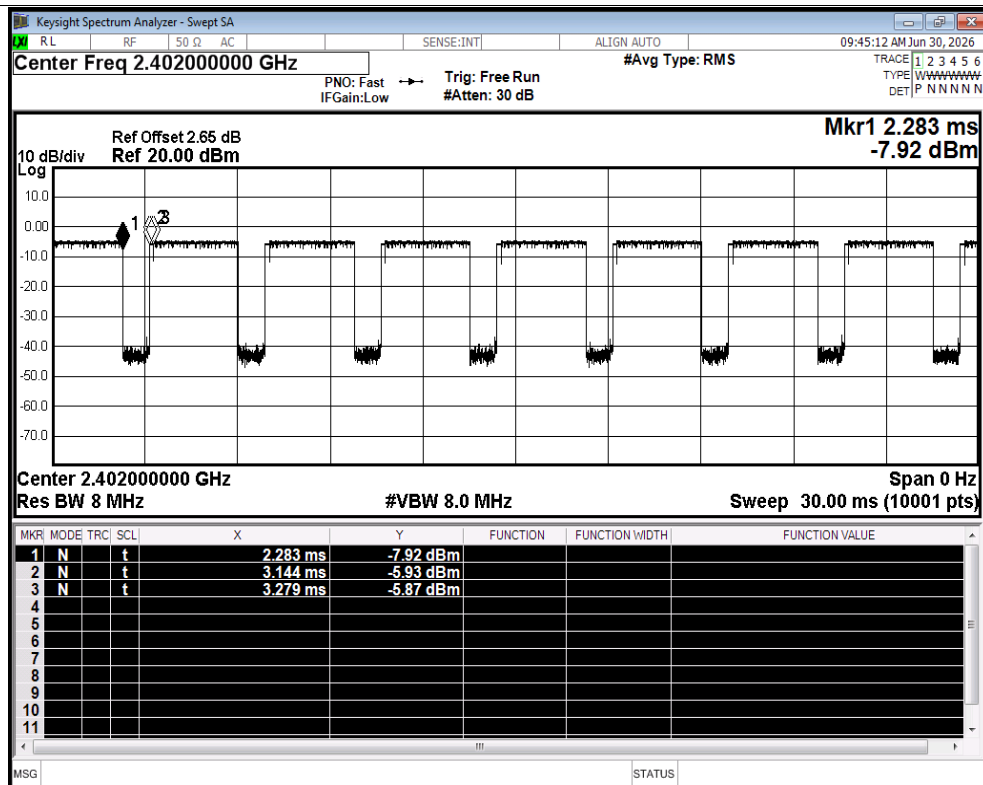


Duty Cycle NVNT 1-DH5 2441MHz Ant1



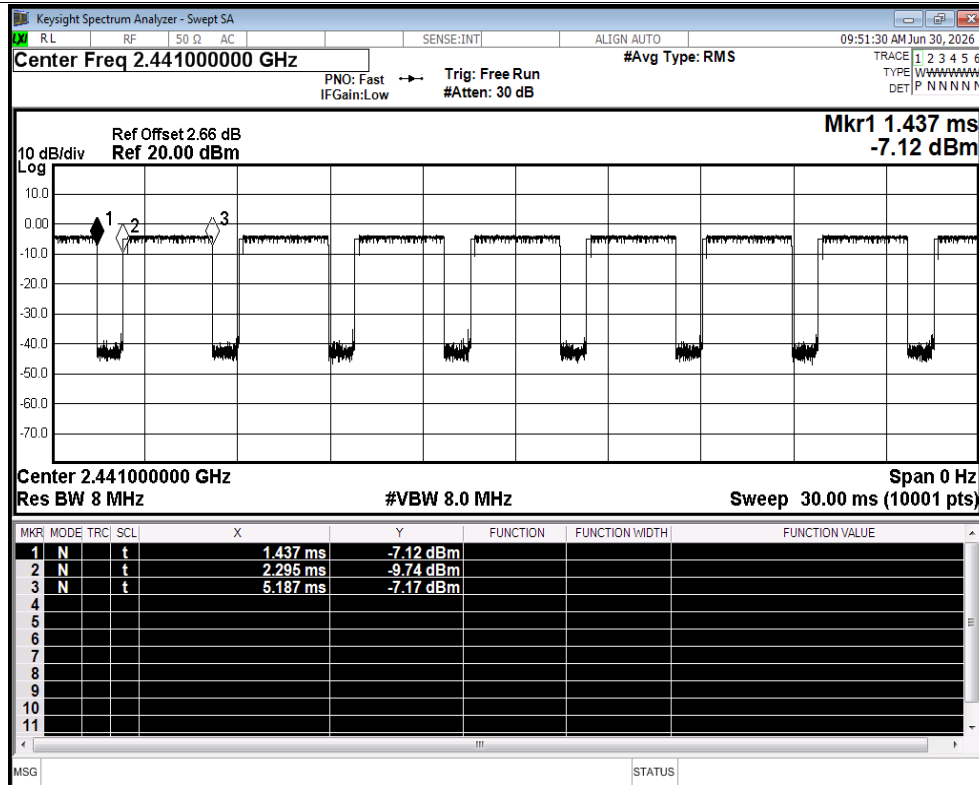


Duty Cycle NVNT 1-DH5 2480MHz Ant1

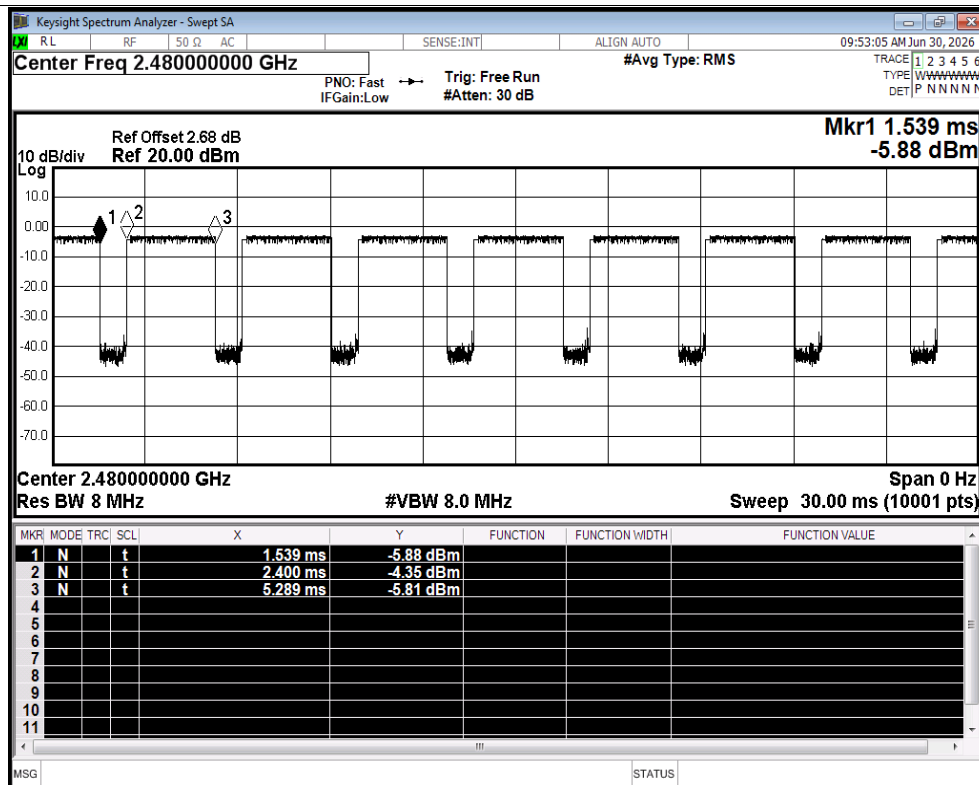


Duty Cycle NVNT 2-DH5 2402MHz Ant1





Duty Cycle NVNT 2-DH5 2441MHz Ant1



Duty Cycle NVNT 2-DH5 2480MHz Ant1

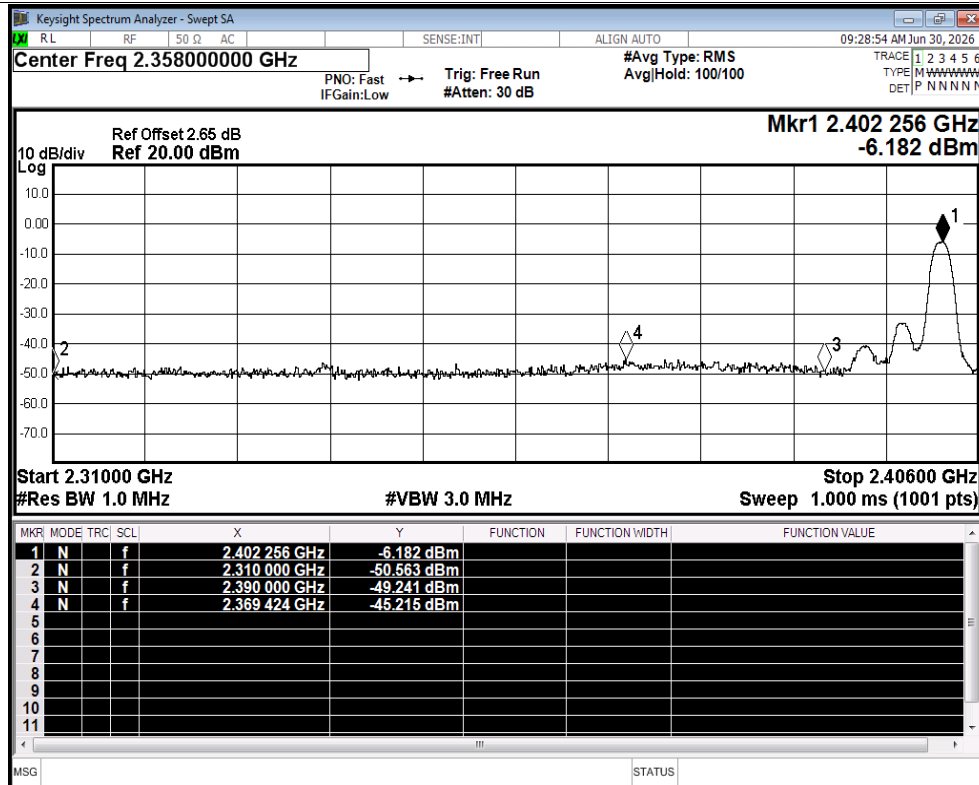




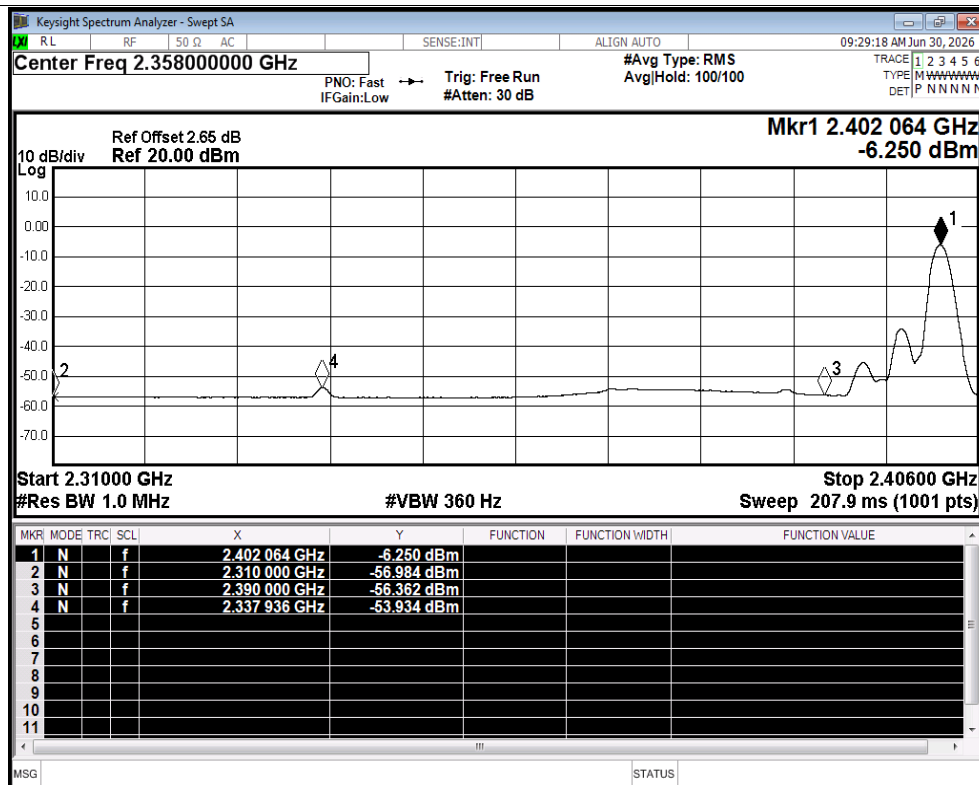
A.9 Restrict Band

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	-50.56	2	46.7	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-56.98	2	40.28	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2369.424	-45.21	2	52.05	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2337.936	-53.93	2	43.33	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-48.39	2	48.87	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-56.38	2	40.88	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-47.08	2	50.18	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-52.93	2	44.33	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2497.072	-43.95	2	53.31	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.584	-52.84	2	44.42	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-45.85	2	51.41	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-53.29	2	43.97	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-50.31	2	46.95	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-55.61	2	41.65	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2370.384	-44.38	2	52.88	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2373.552	-52.9	2	44.36	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-49.26	2	48	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-54.88	2	42.38	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-45.78	2	51.48	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-53.28	2	43.98	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2484.496	-42.62	2	54.64	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.512	-53.28	2	43.98	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-46.94	2	50.32	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-53.57	2	43.69	Average	54	Pass



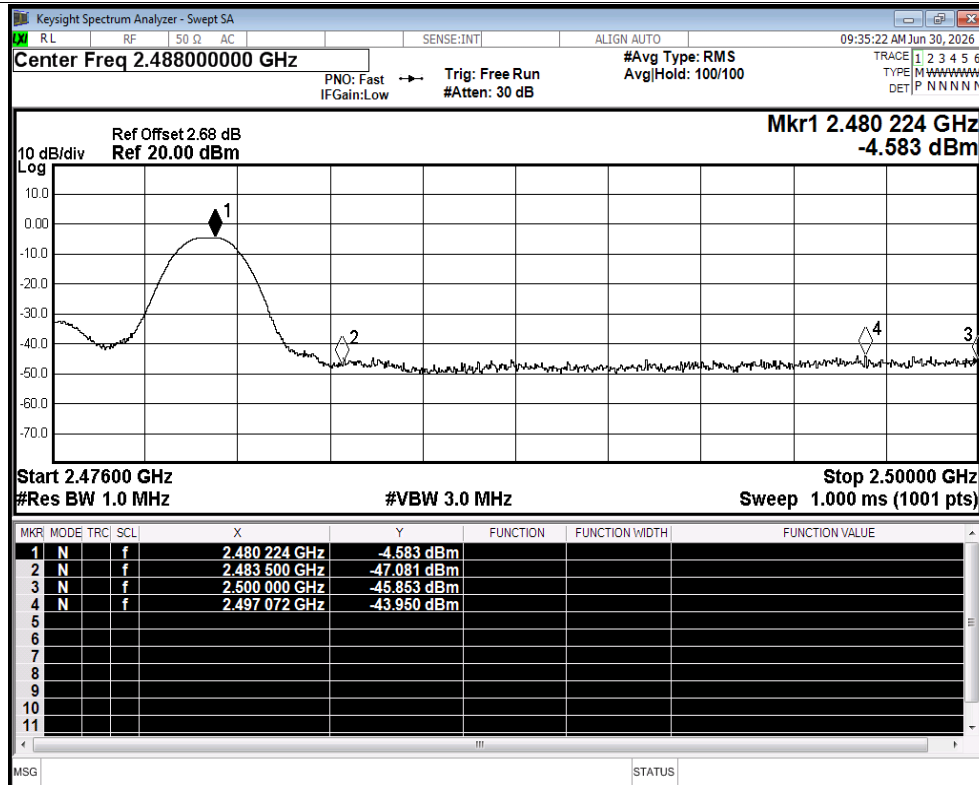


Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Peak

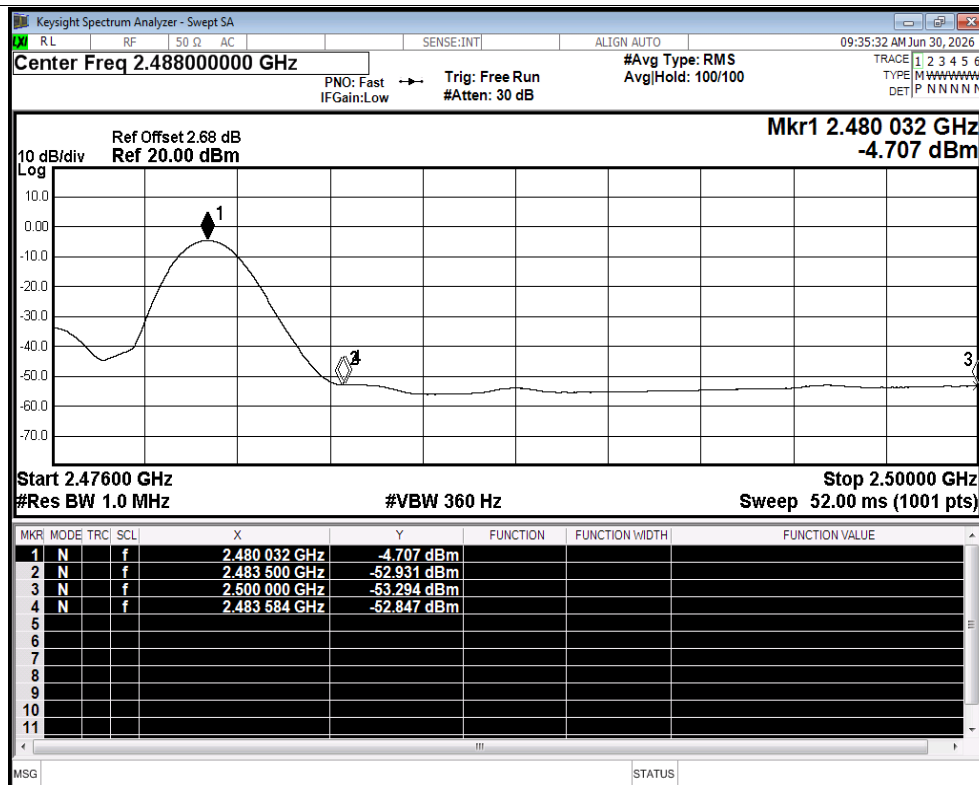


Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Average



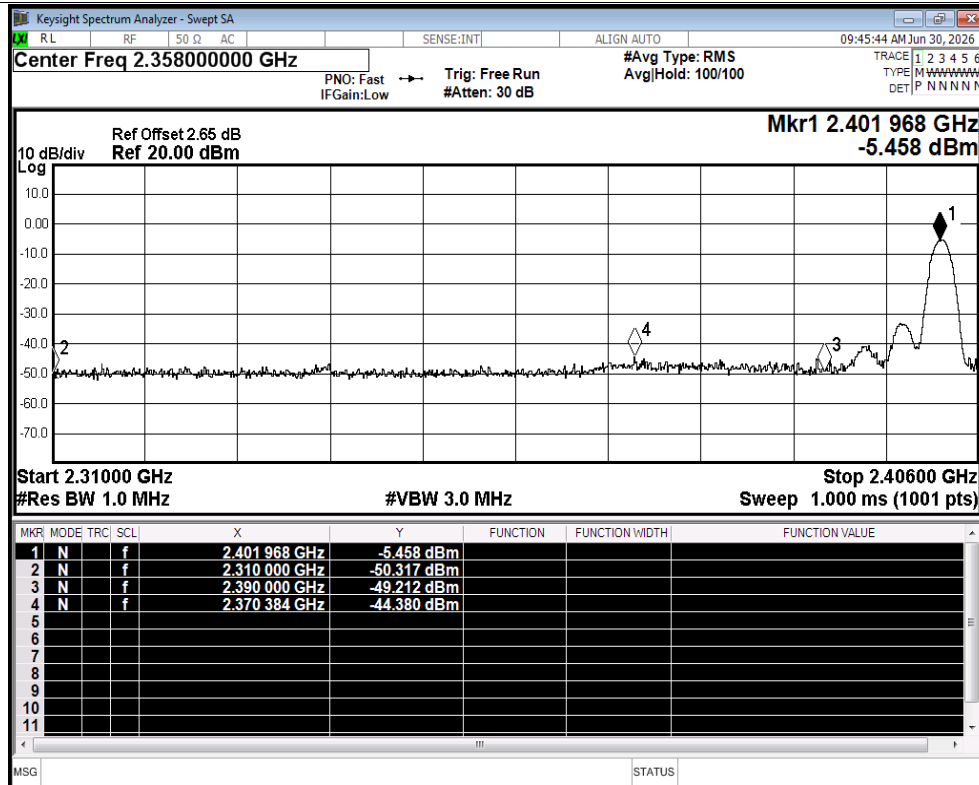


Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Peak

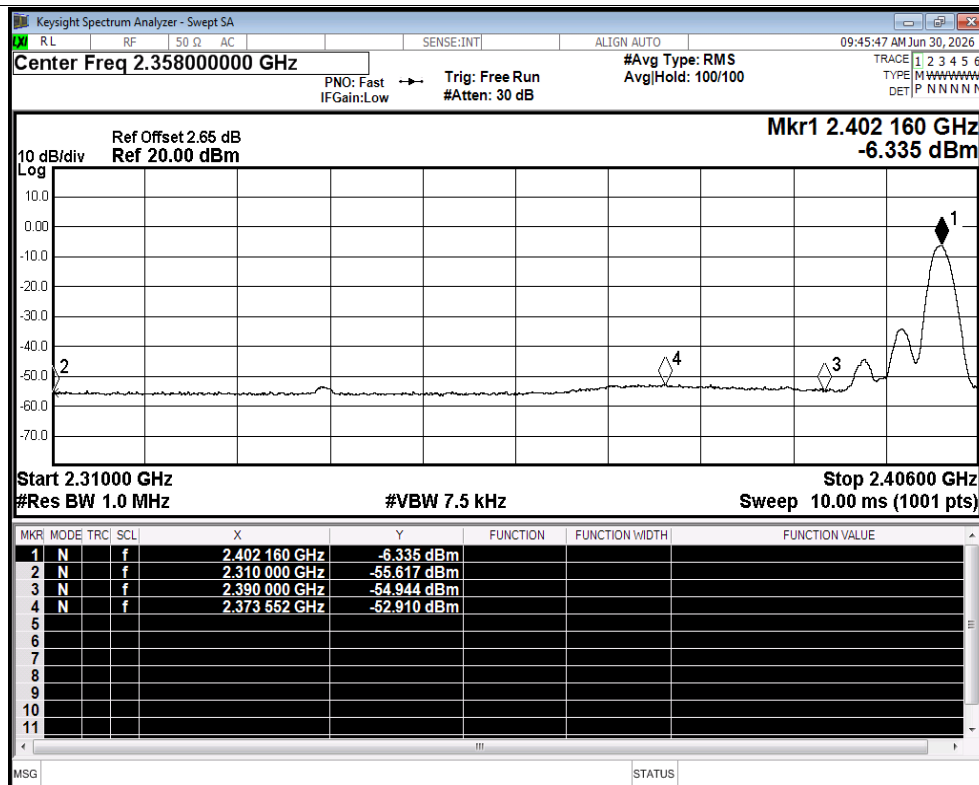


Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Average



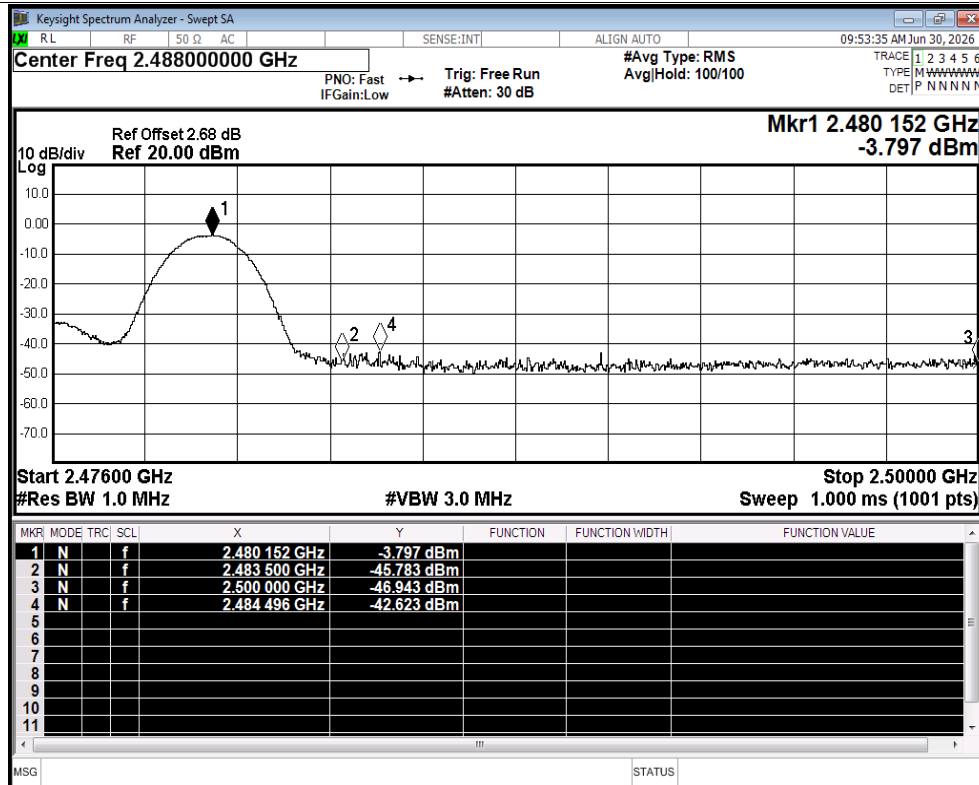


Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Peak

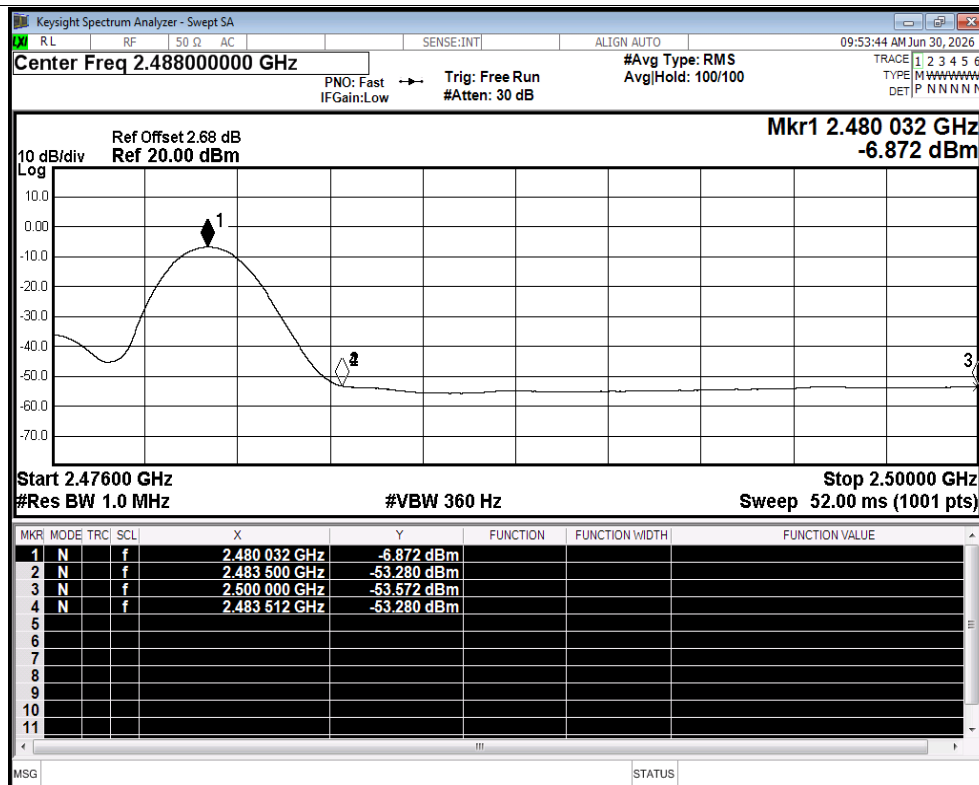


Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Average





Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Peak



Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Average

