



## Appendix A

### RF Test Data for BT (Conducted Measurement)

Product Name: White Noise Generator

Test Model: PXBR-000072

#### Environmental Conditions

Temperature:	23.8°C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Jay Luo
Supervised by:	Nick Peng





### A.1 -20dB Bandwidth

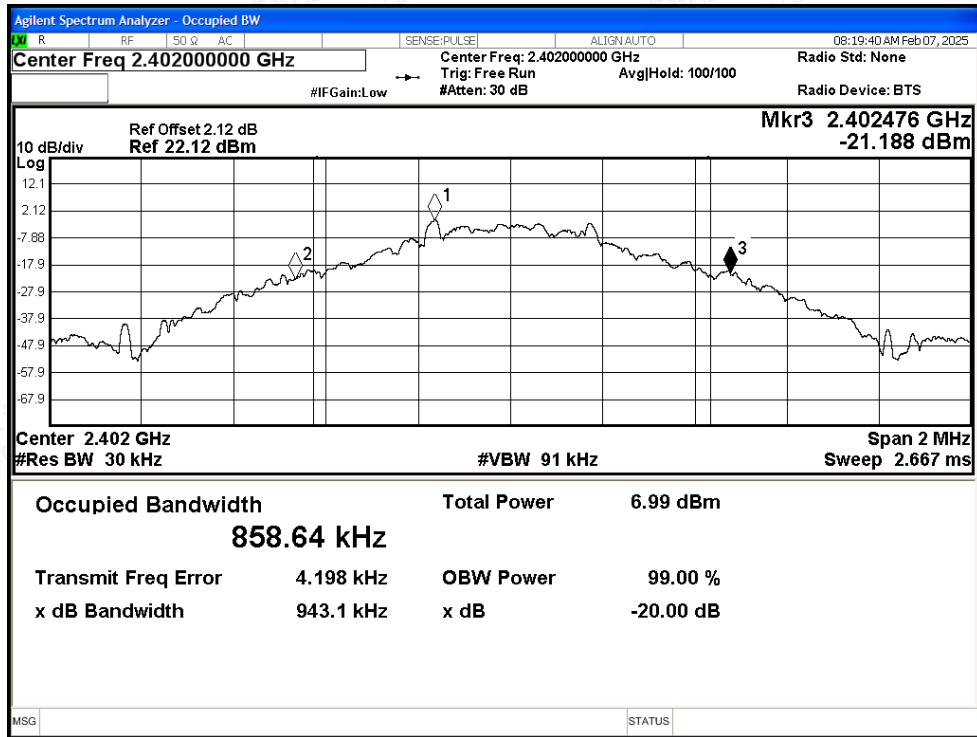
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant	0.943	N/A	Pass
NVNT	1-DH5	2441	Ant	0.976	N/A	Pass
NVNT	1-DH5	2480	Ant	0.969	N/A	Pass
NVNT	2-DH5	2402	Ant	1.284	N/A	Pass
NVNT	2-DH5	2441	Ant	1.284	N/A	Pass
NVNT	2-DH5	2480	Ant	1.284	N/A	Pass
NVNT	3-DH5	2402	Ant	1.298	N/A	Pass
NVNT	3-DH5	2441	Ant	1.28	N/A	Pass
NVNT	3-DH5	2480	Ant	1.31	N/A	Pass



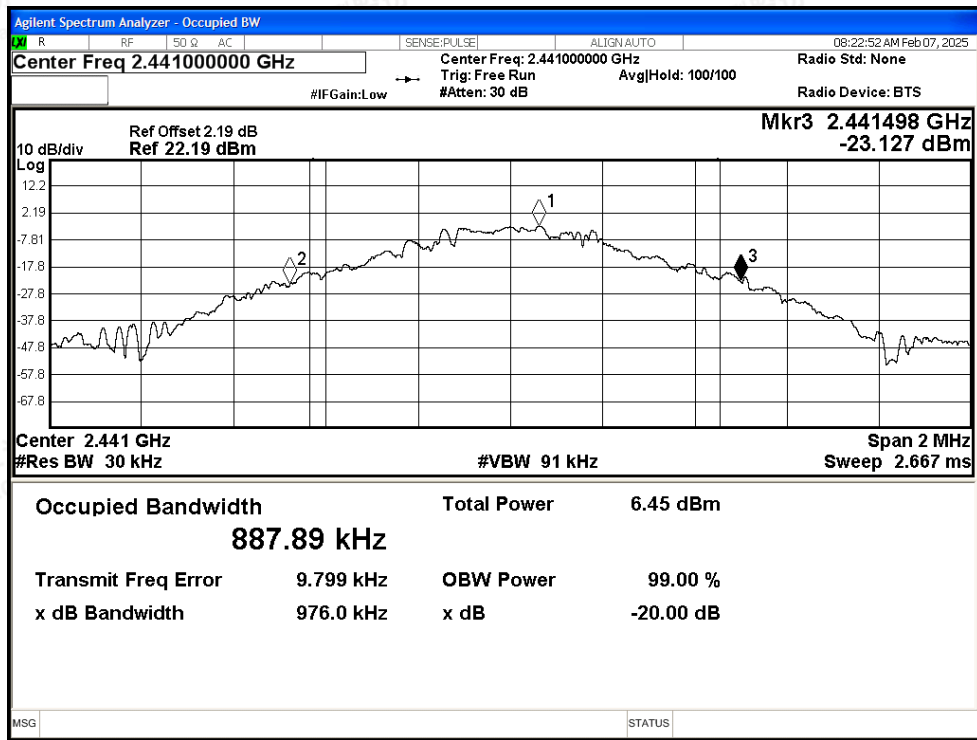


Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant

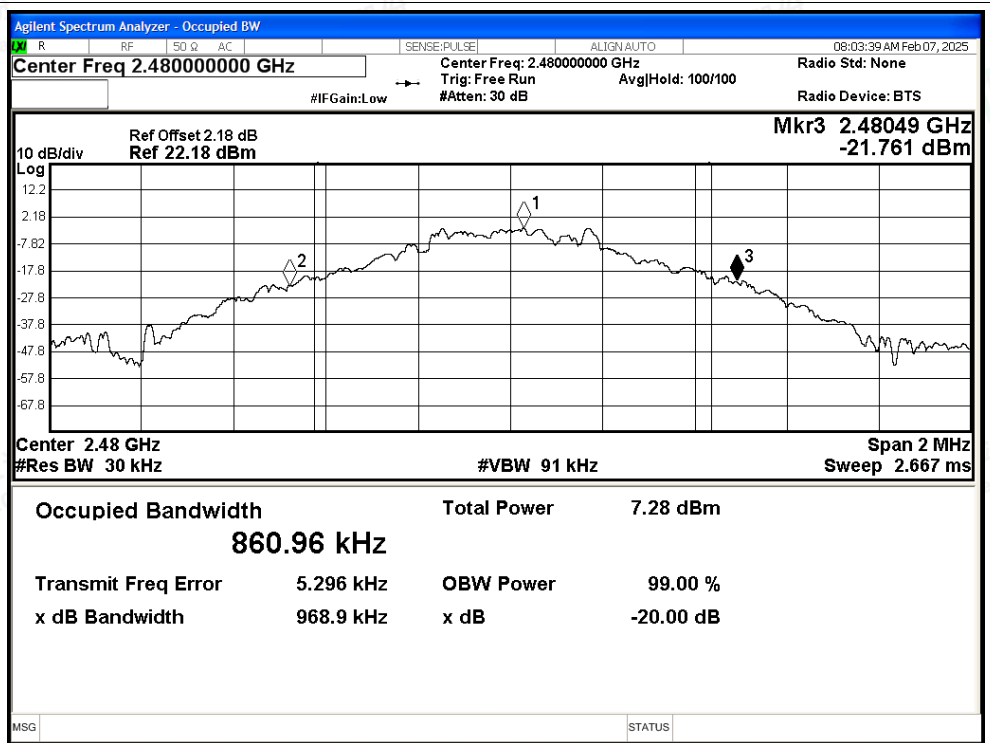


-20dB Bandwidth NVNT 1-DH5 2441MHz Ant

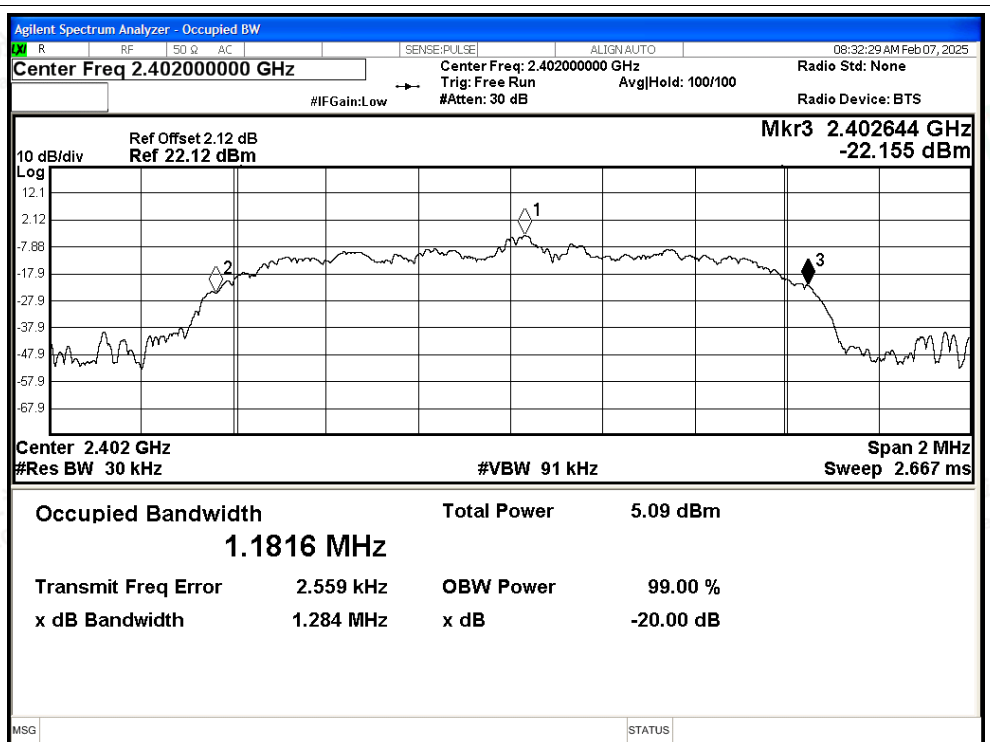




-20dB Bandwidth NVNT 1-DH5 2480MHz Ant

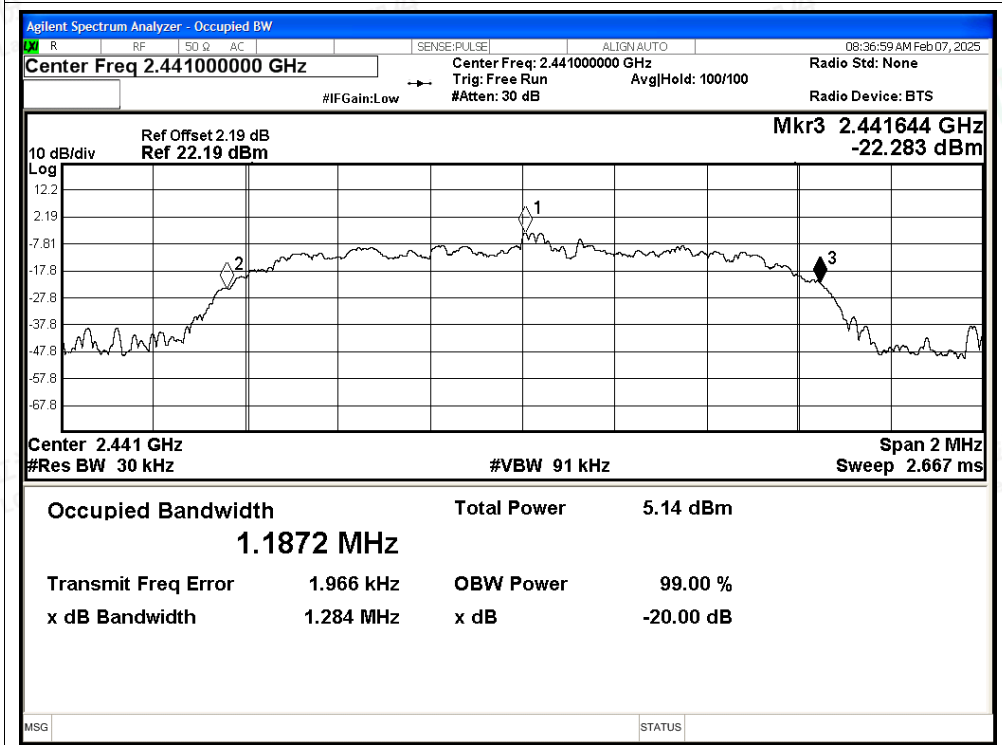


-20dB Bandwidth NVNT 2-DH5 2402MHz Ant

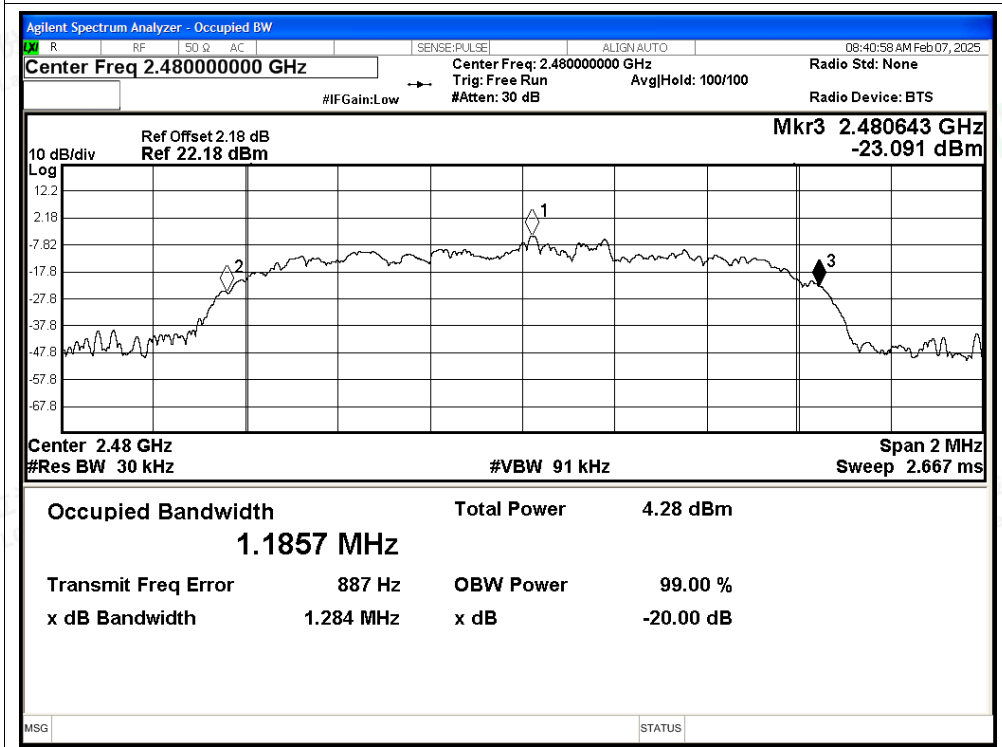




-20dB Bandwidth NVNT 2-DH5 2441MHz Ant

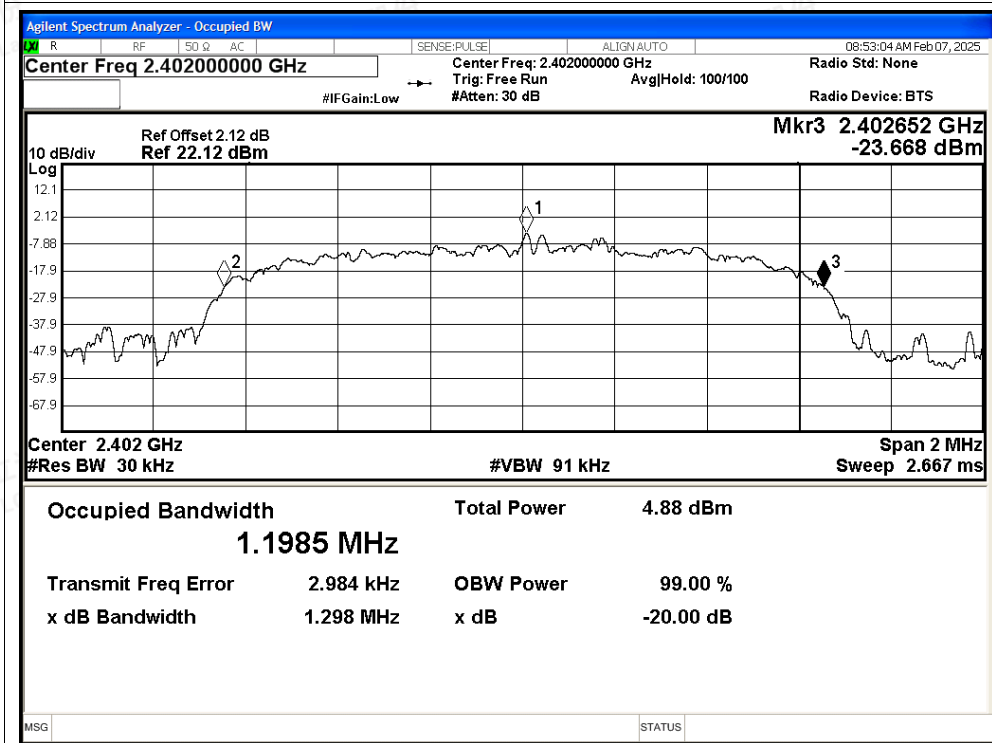


-20dB Bandwidth NVNT 2-DH5 2480MHz Ant

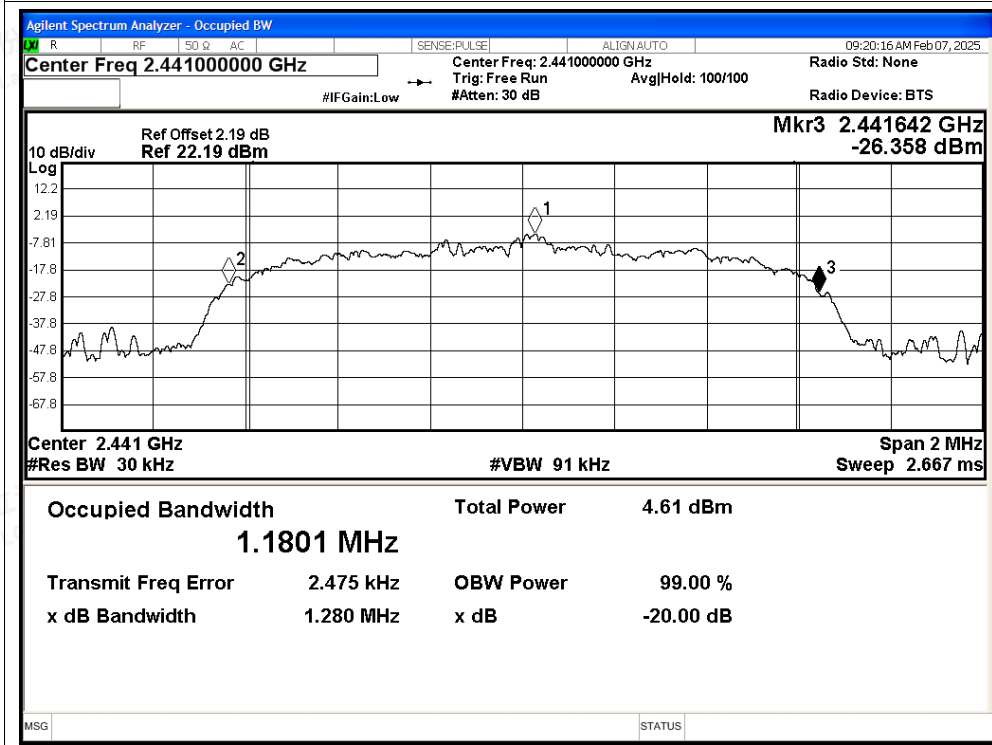


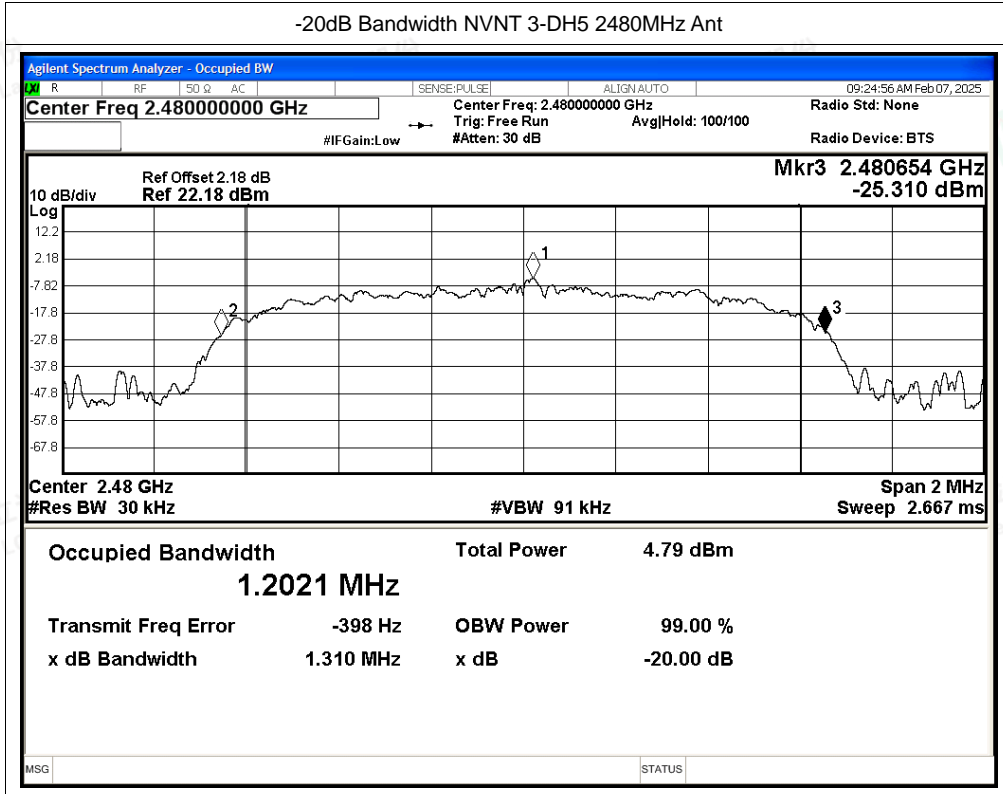


-20dB Bandwidth NVNT 3-DH5 2402MHz Ant



-20dB Bandwidth NVNT 3-DH5 2441MHz Ant







## A.2 Maximum Peak Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant	0.4	21	Pass
NVNT	1-DH5	2441	Ant	0.46	21	Pass
NVNT	1-DH5	2480	Ant	0.78	21	Pass
NVNT	2-DH5	2402	Ant	0.6	21	Pass
NVNT	2-DH5	2441	Ant	1.04	21	Pass
NVNT	2-DH5	2480	Ant	0	21	Pass
NVNT	3-DH5	2402	Ant	1	21	Pass
NVNT	3-DH5	2441	Ant	0.36	21	Pass
NVNT	3-DH5	2480	Ant	0.72	21	Pass

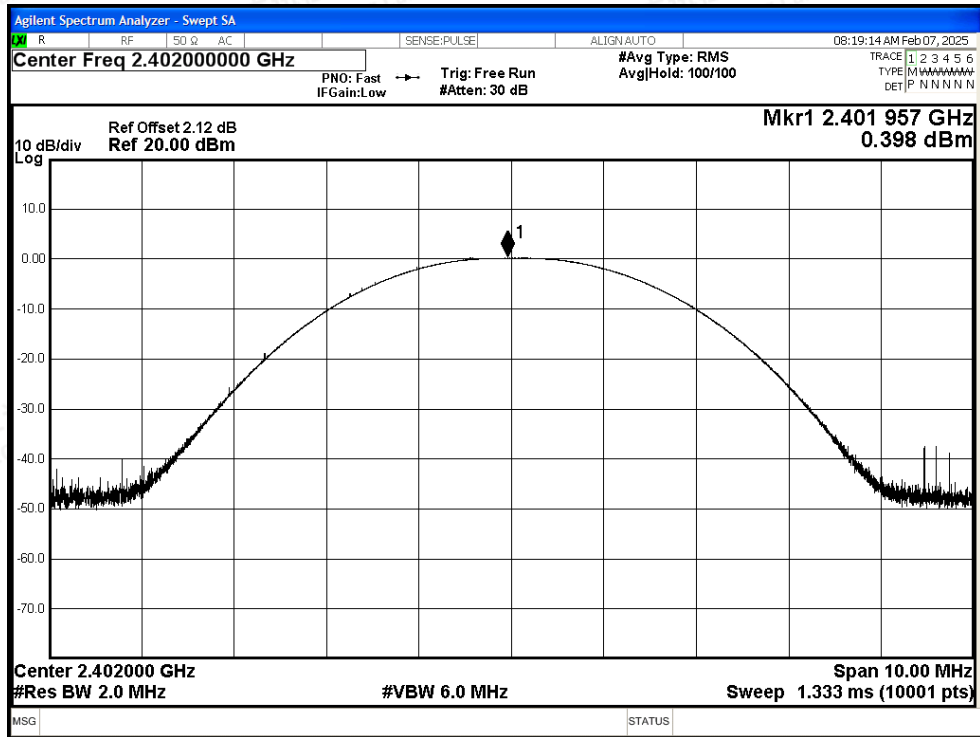




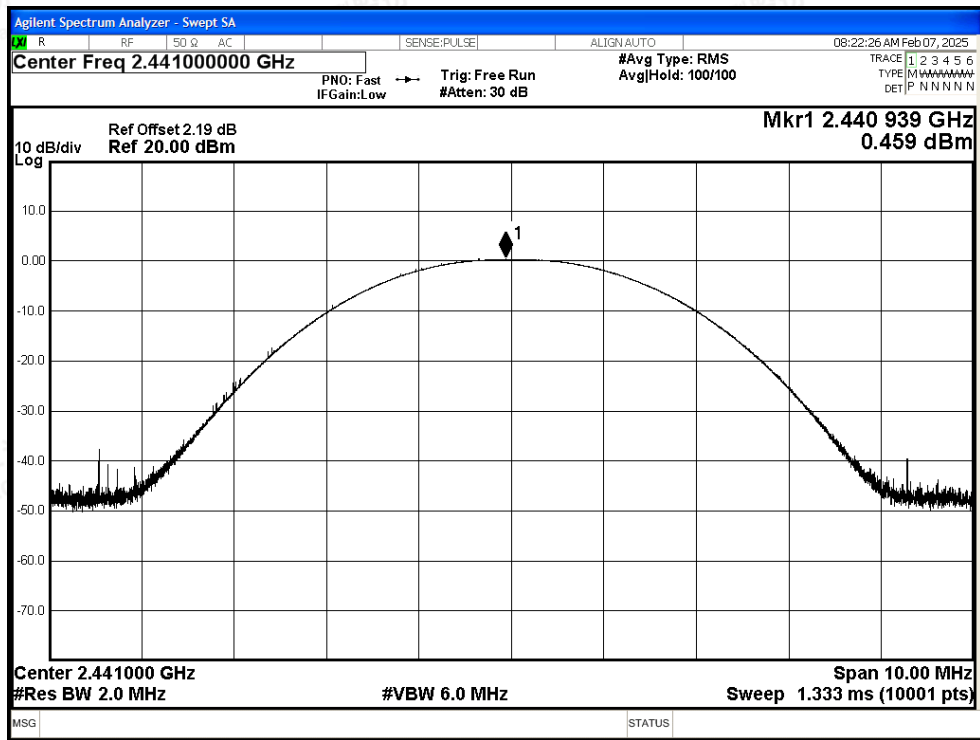


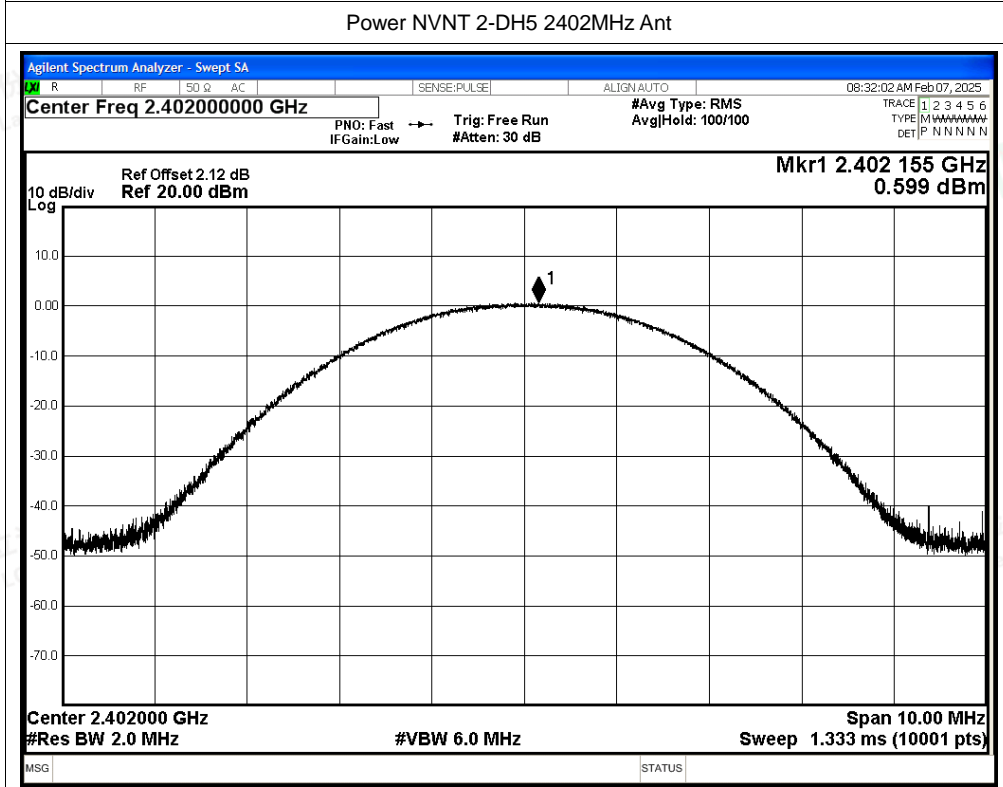
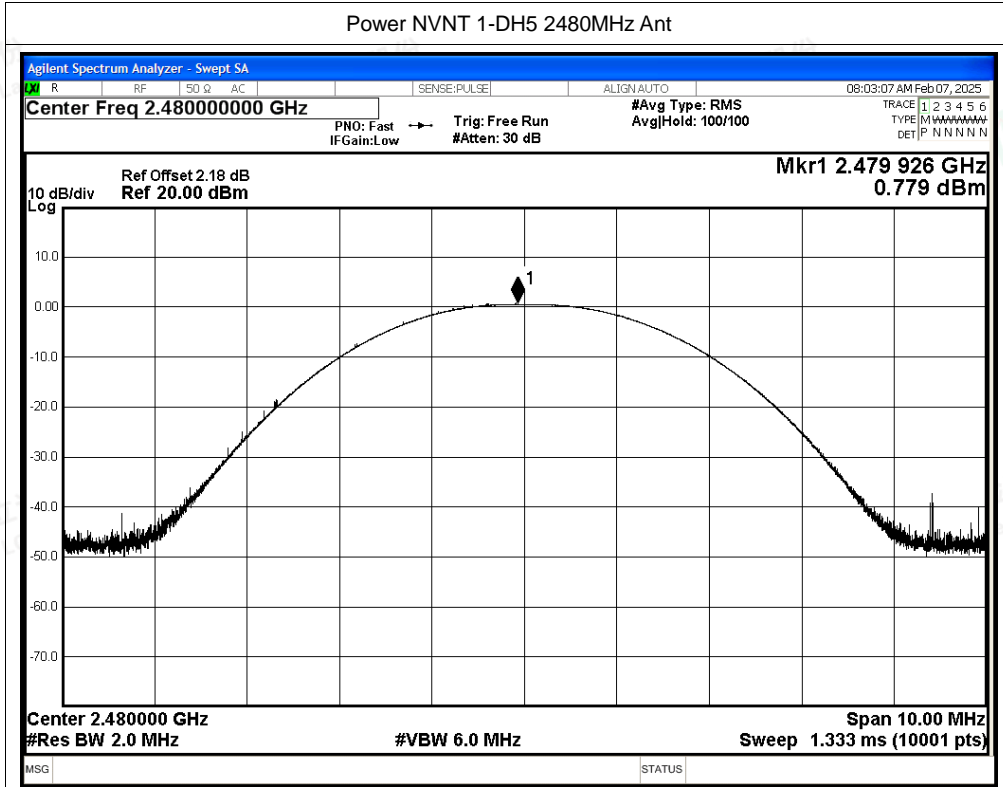
Test Graphs

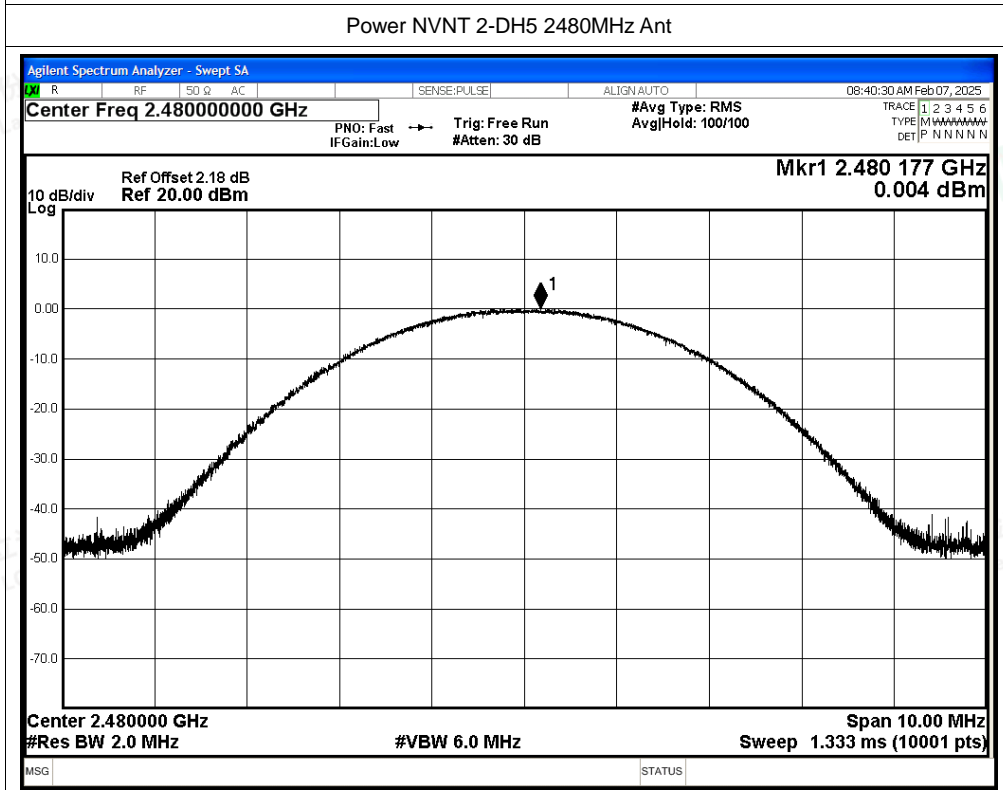
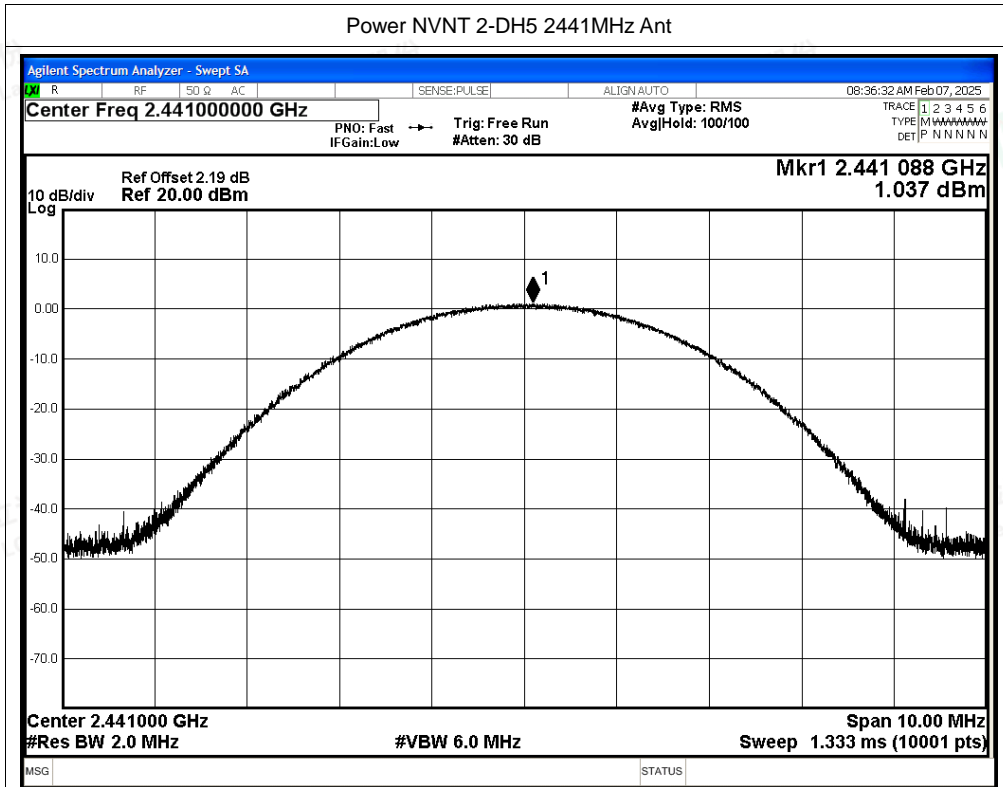
Power NVNT 1-DH5 2402MHz Ant

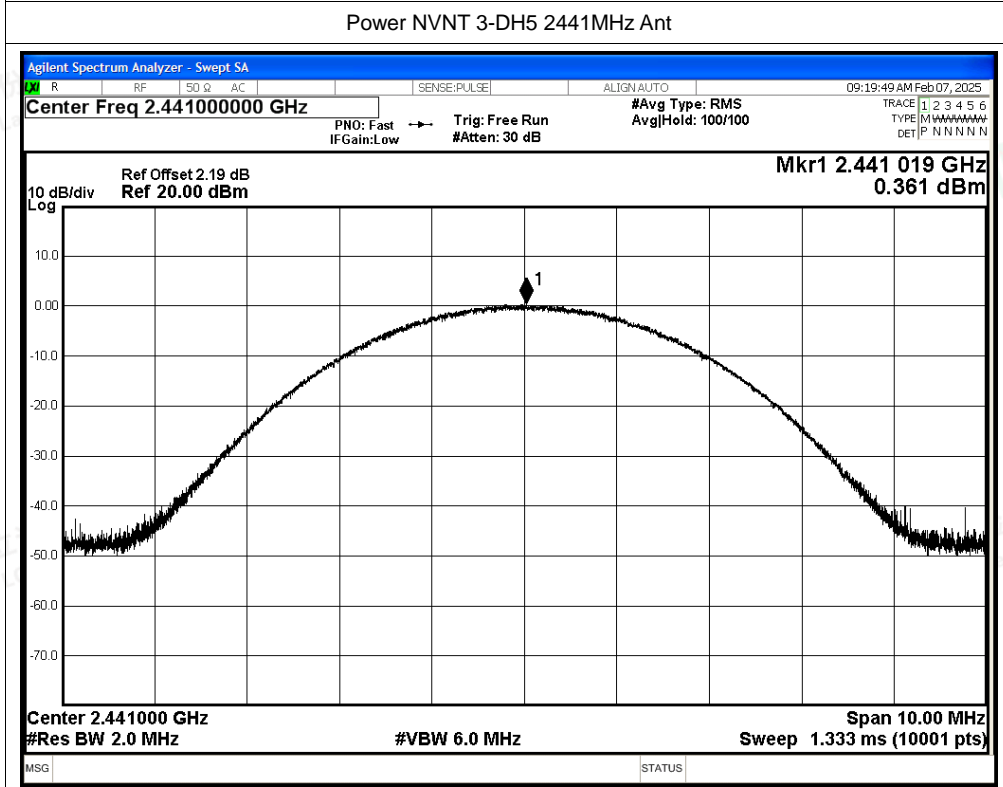
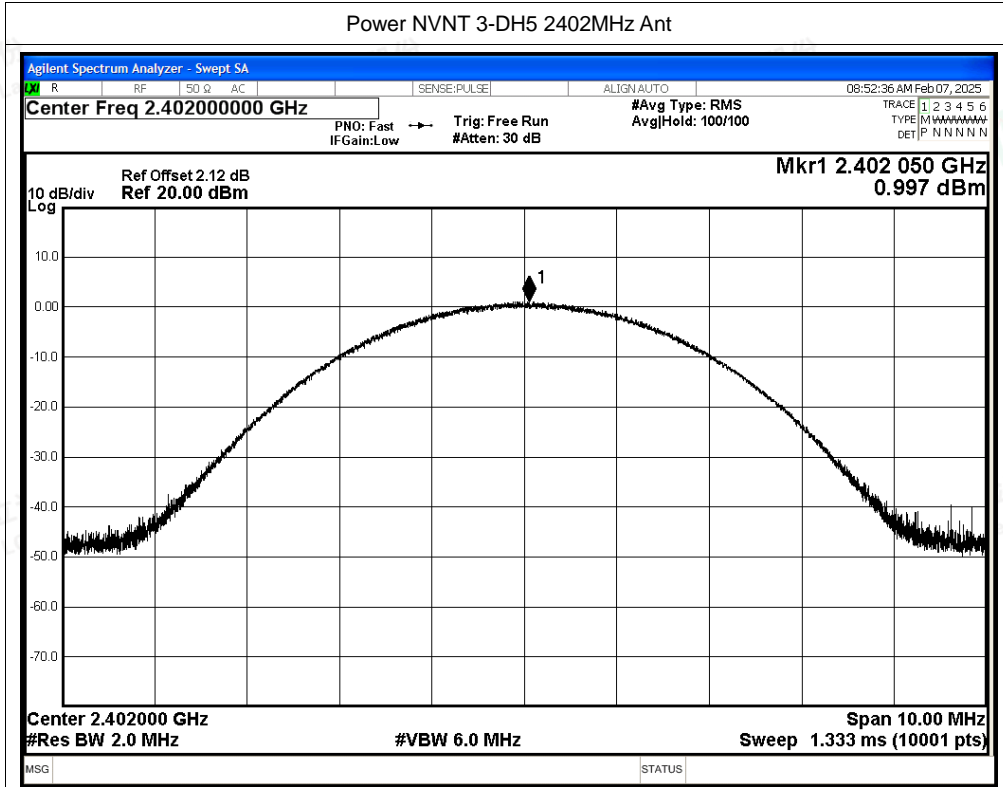


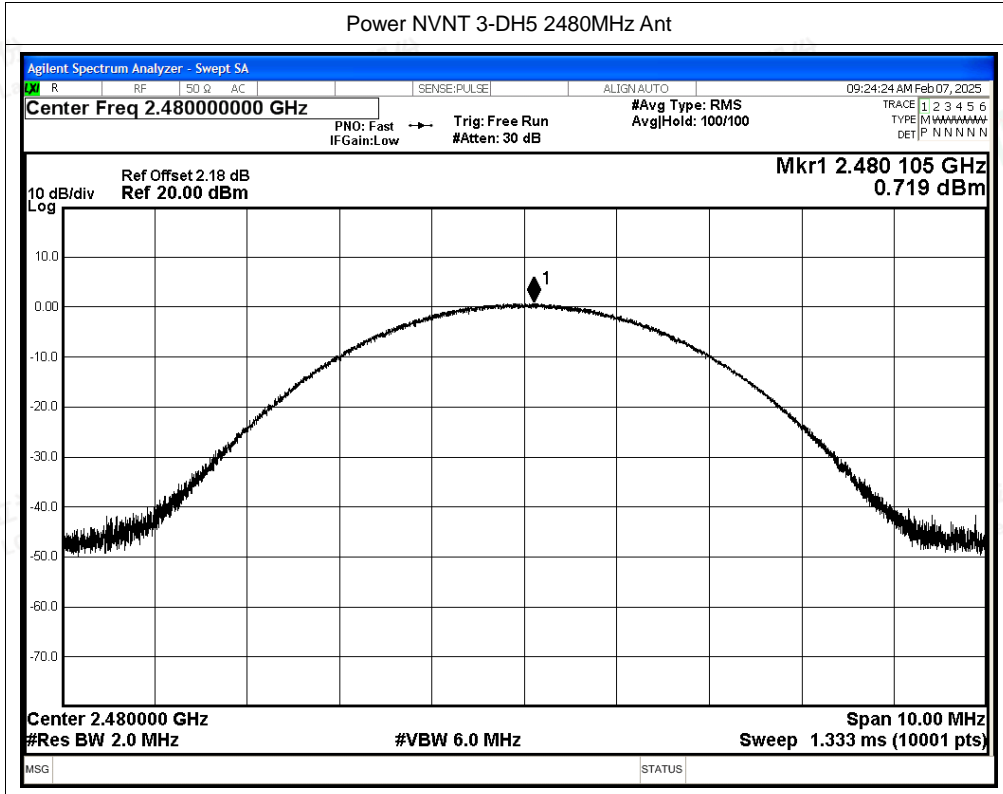
Power NVNT 1-DH5 2441MHz Ant













### A.3 Carrier Frequencies Separation

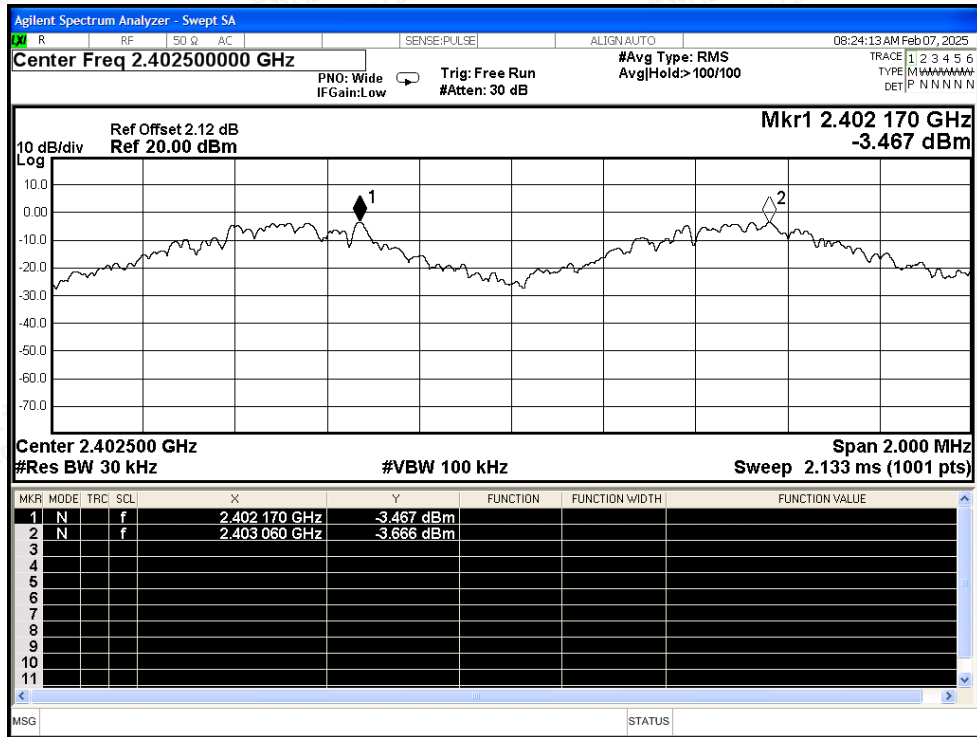
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant	2402.17	2403.06	0.89	0.651	Pass
NVNT	2-DH5	Ant	2401.824	2403.176	1.352	0.856	Pass
NVNT	3-DH5	Ant	2401.914	2402.912	0.998	0.873	Pass



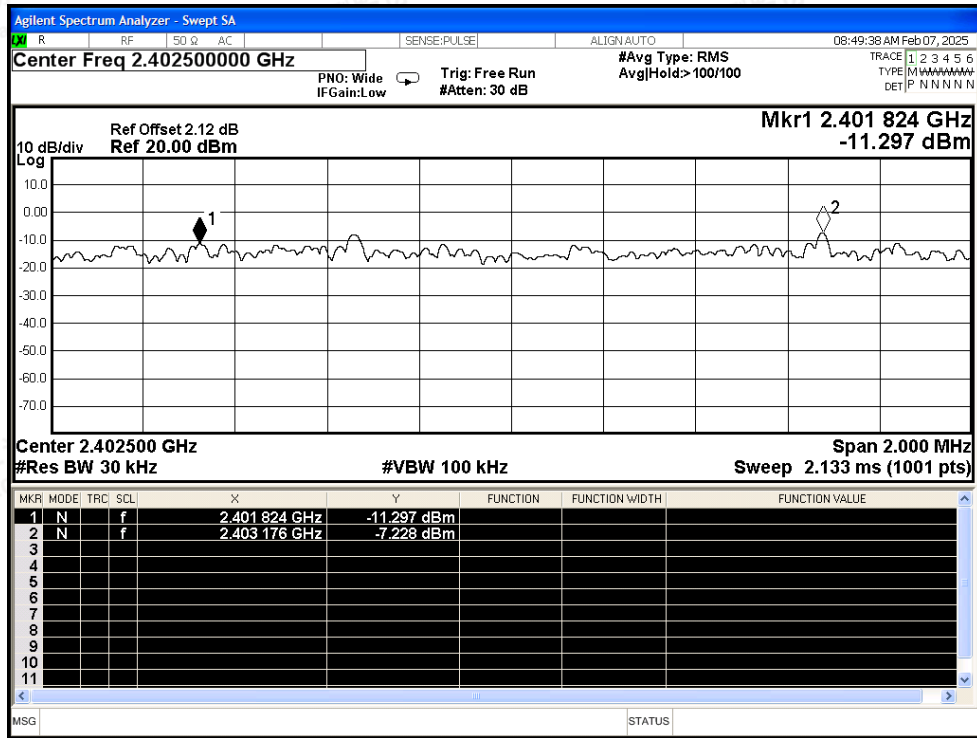


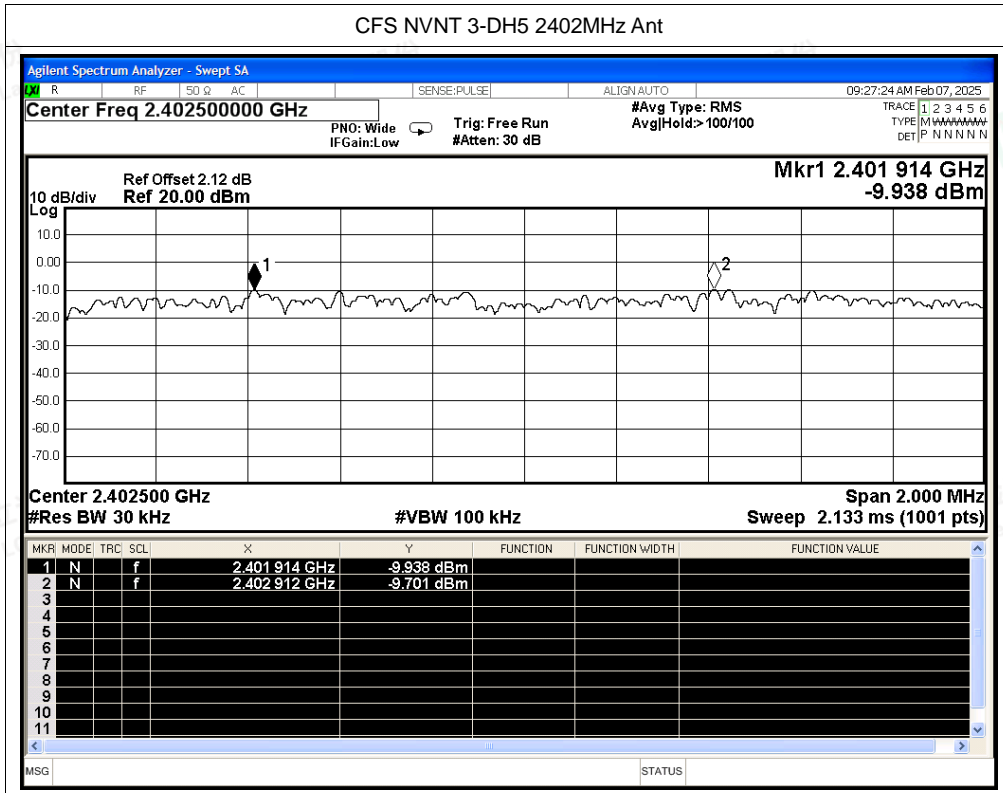
Test Graphs

CFS NVNT 1-DH5 2402MHz Ant



CFS NVNT 2-DH5 2402MHz Ant









### A.4 Dwell Time

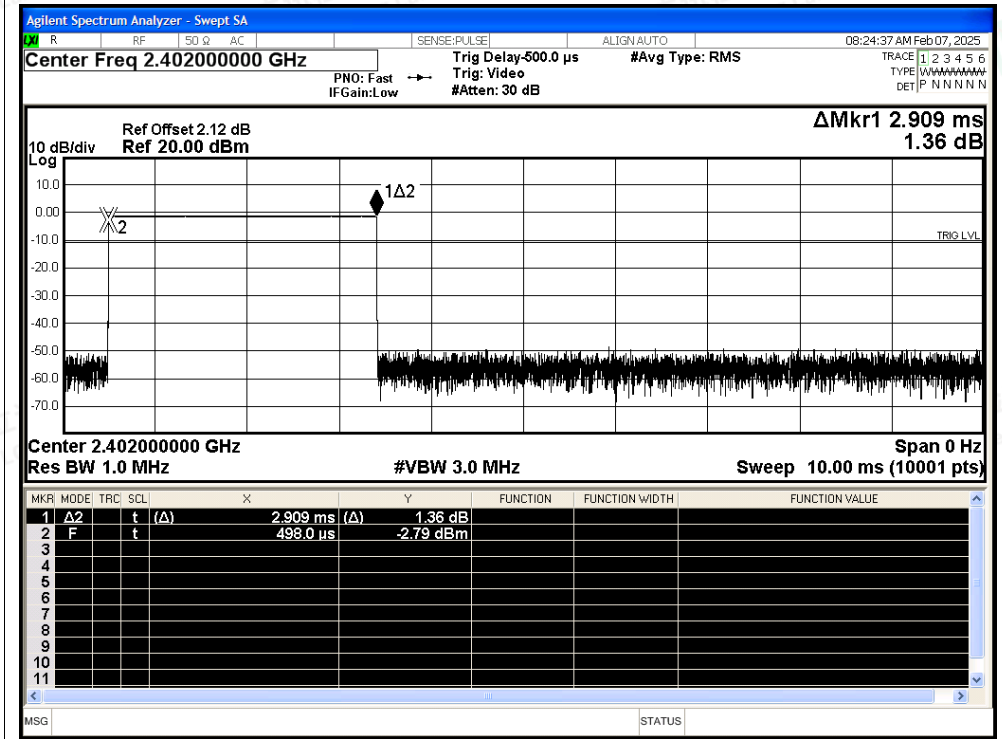
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH5	2402	Ant	2.909	302.536	104	31600	400	Pass
NVNT	2-DH5	2402	Ant	2.898	318.78	110	31600	400	Pass
NVNT	3-DH5	2402	Ant	2.897	281.009	97	31600	400	Pass



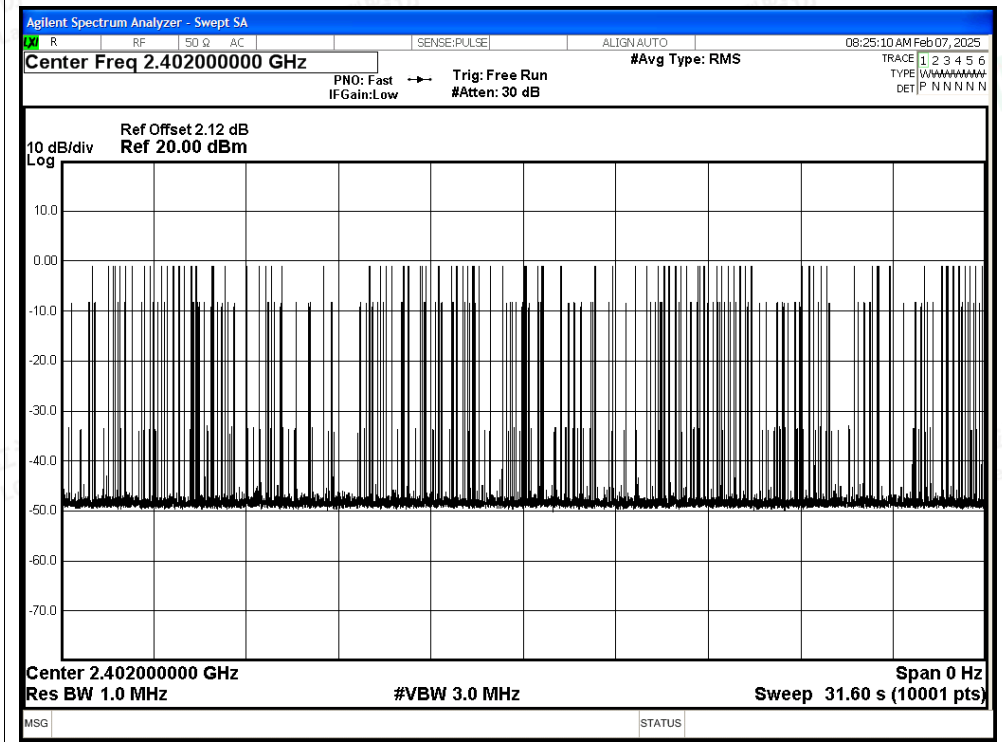


Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant One Burst

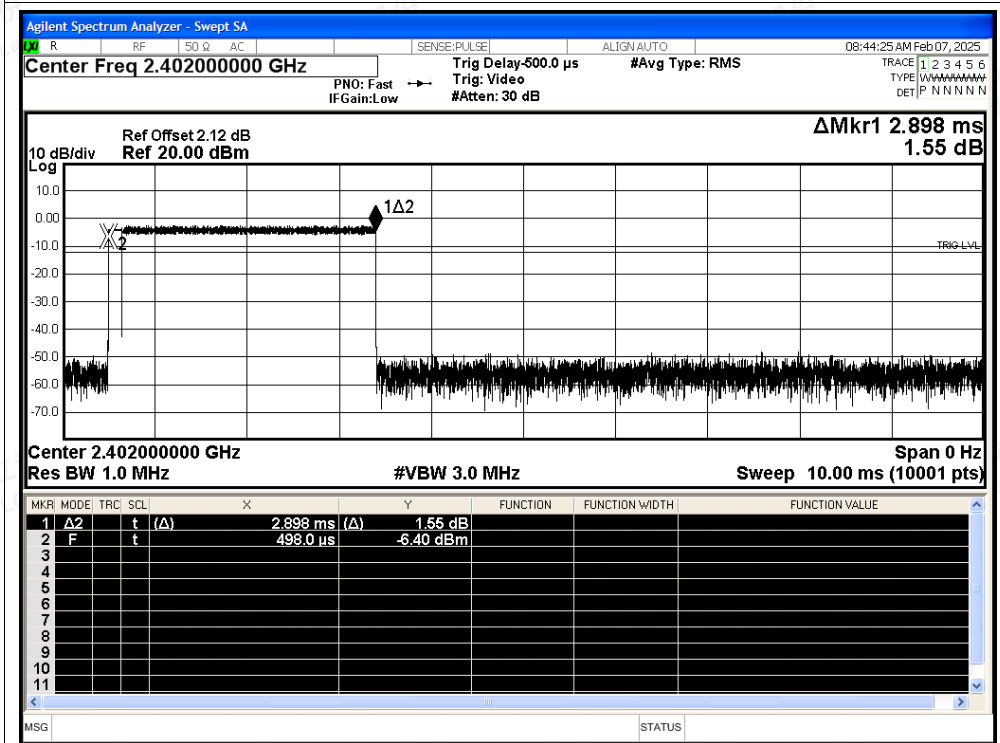


Dwell NVNT 1-DH5 2402MHz Ant Accumulated

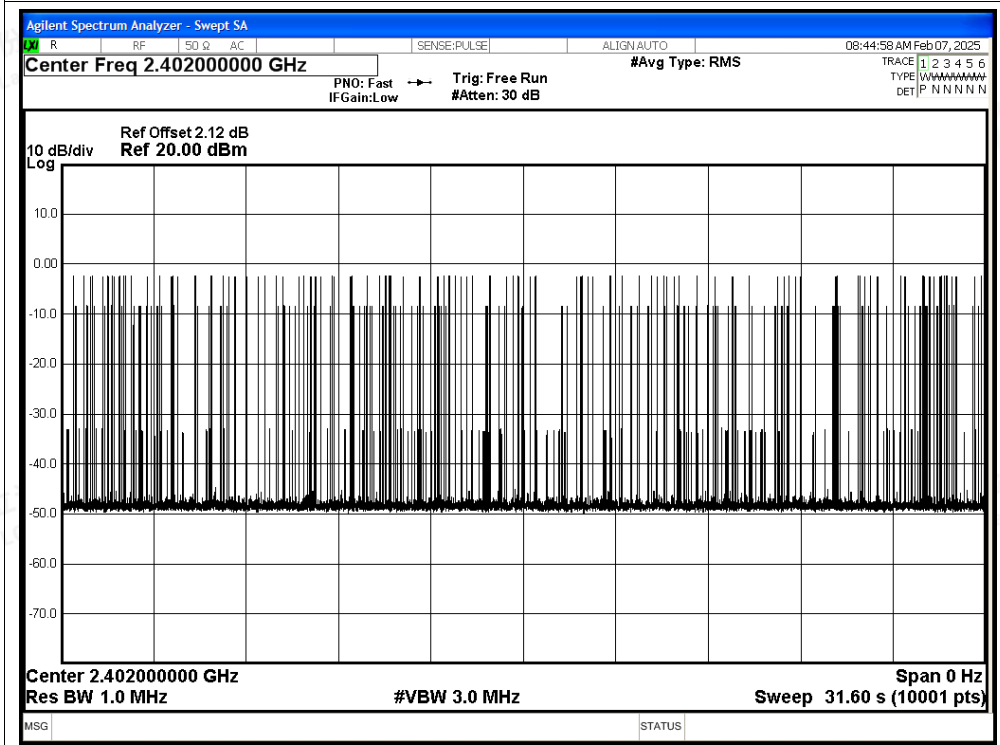




Dwell NVNT 2-DH5 2402MHz Ant One Burst

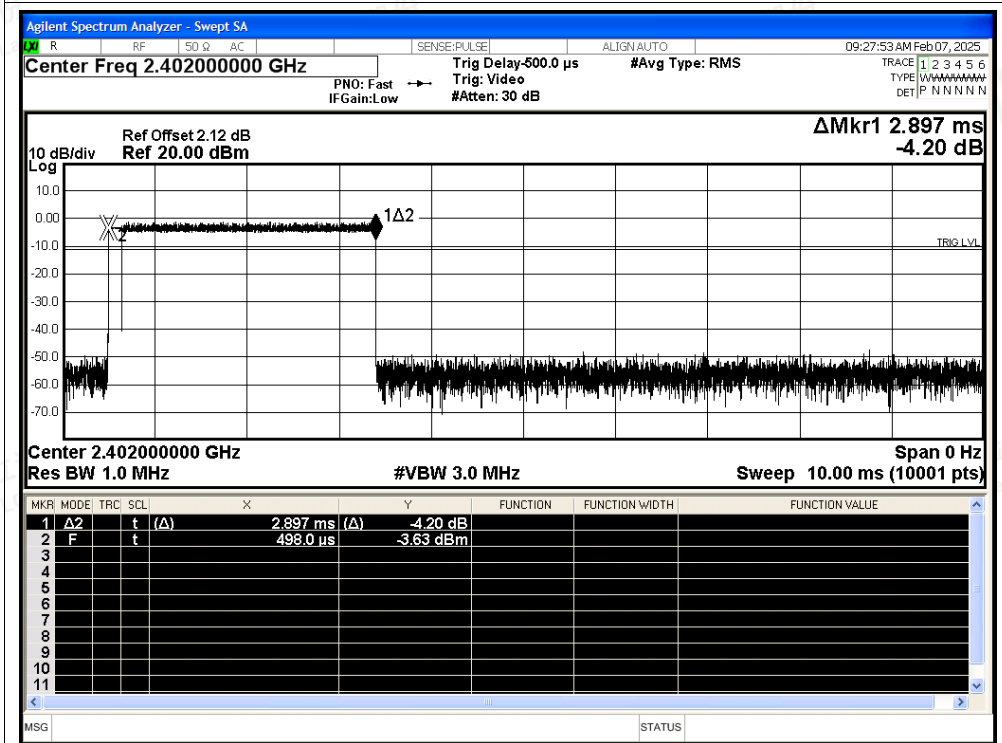


Dwell NVNT 2-DH5 2402MHz Ant Accumulated

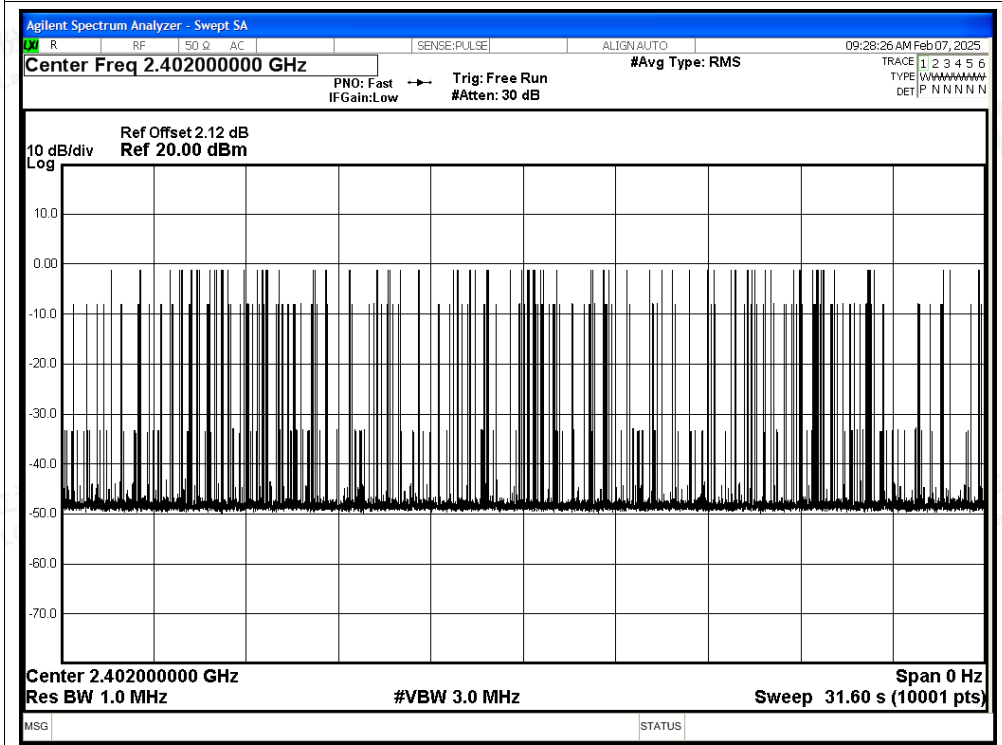




Dwell NVNT 3-DH5 2402MHz Ant One Burst



Dwell NVNT 3-DH5 2402MHz Ant Accumulated





## A.5 Number of Hopping Channel

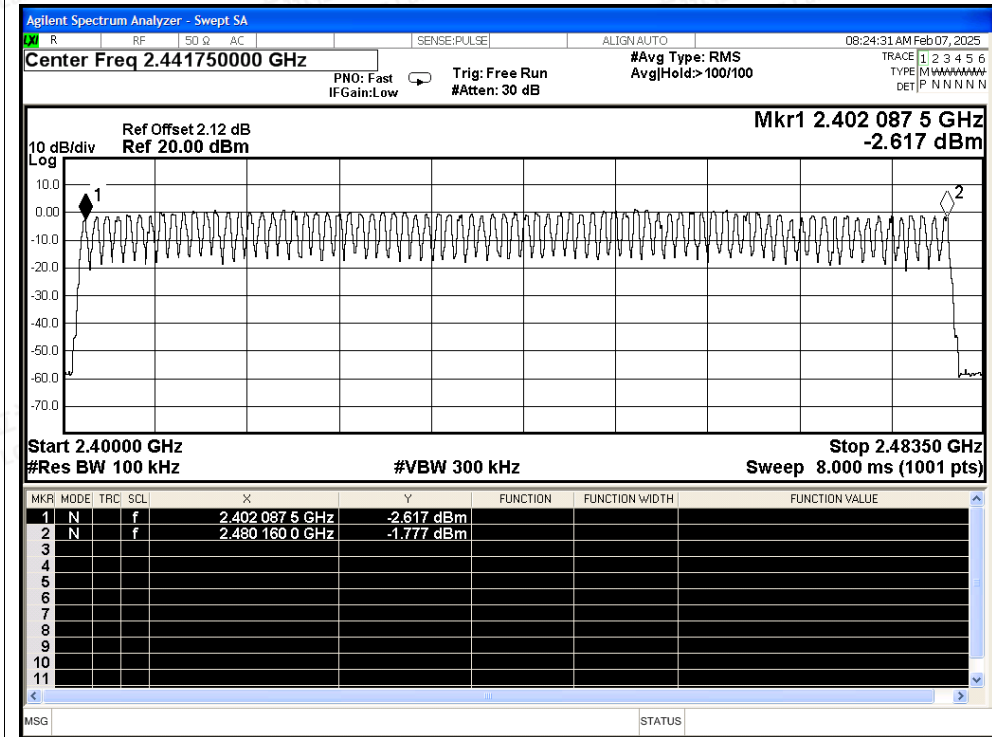
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH5	Ant	79	15	Pass
NVNT	2-DH5	Ant	79	15	Pass
NVNT	3-DH5	Ant	79	15	Pass



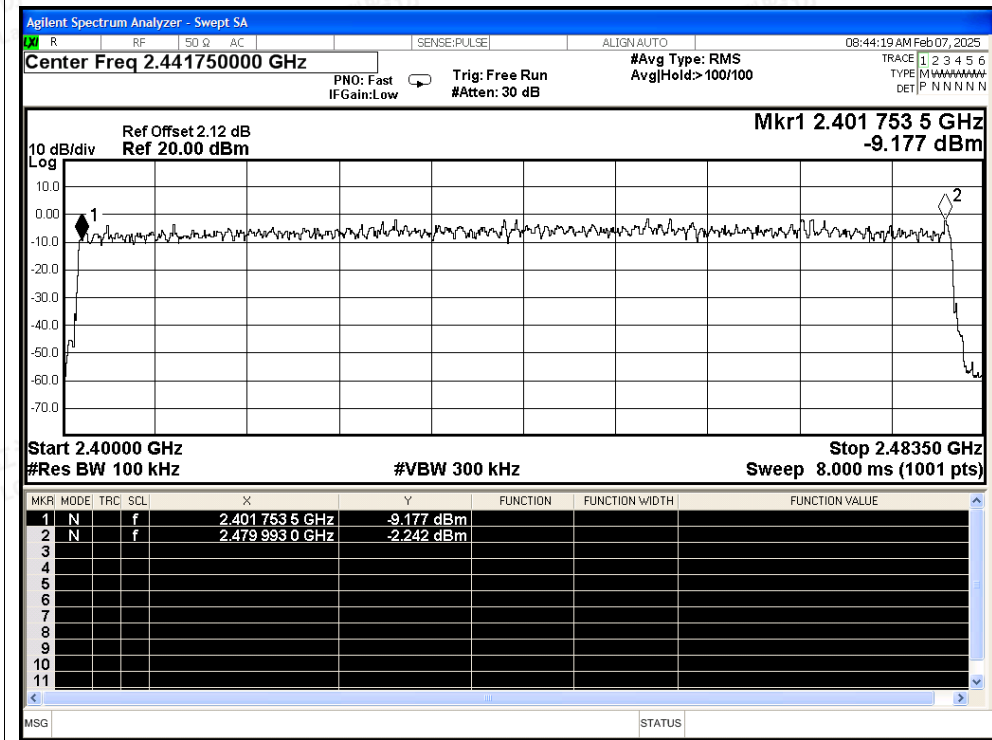


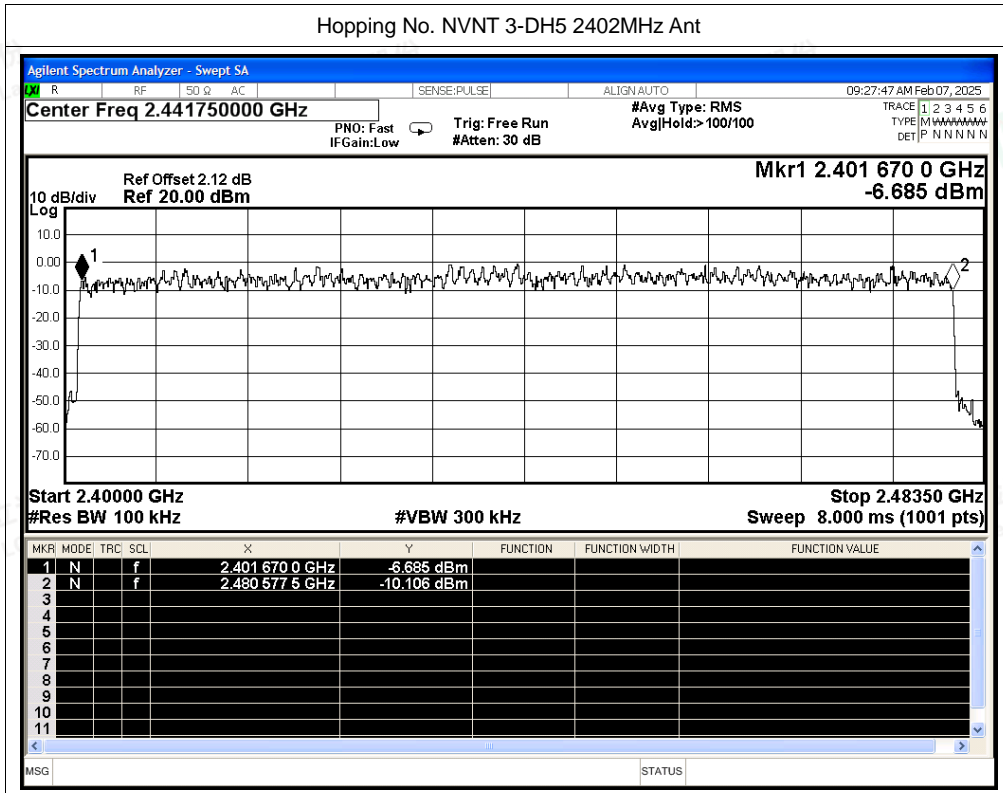
Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant



Hopping No. NVNT 2-DH5 2402MHz Ant







## A.6 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant	No-Hopping	-57.16	-20	Pass
NVNT	1-DH5	2480	Ant	No-Hopping	-56.89	-20	Pass
NVNT	2-DH5	2402	Ant	No-Hopping	-52.04	-20	Pass
NVNT	2-DH5	2480	Ant	No-Hopping	-53.79	-20	Pass
NVNT	3-DH5	2402	Ant	No-Hopping	-50.72	-20	Pass
NVNT	3-DH5	2480	Ant	No-Hopping	-53.06	-20	Pass

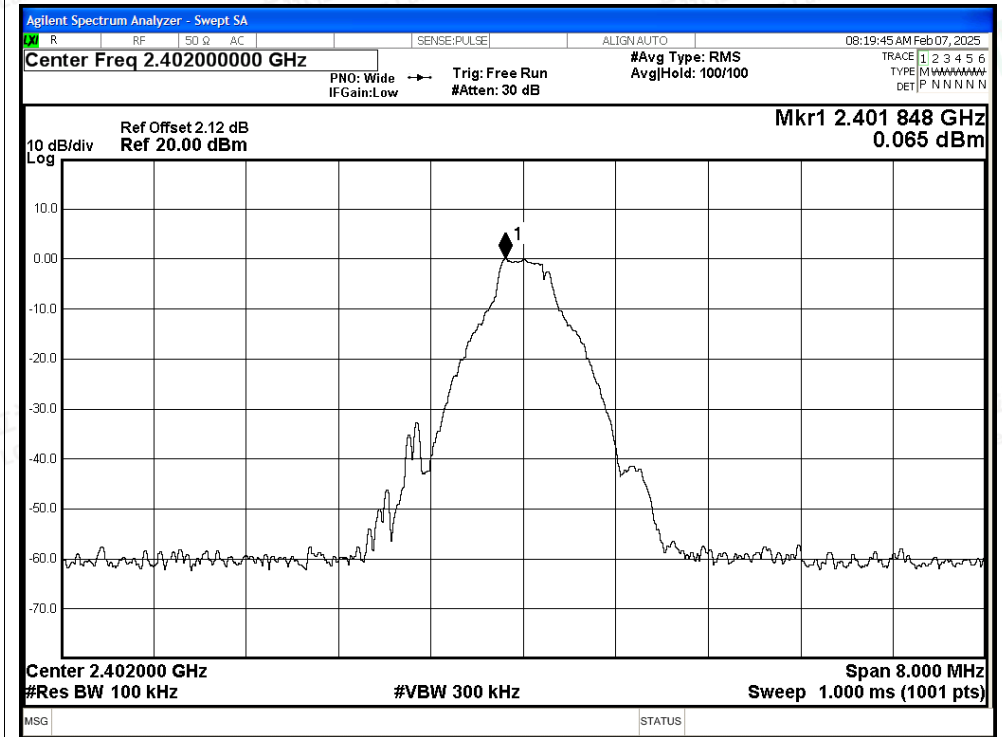




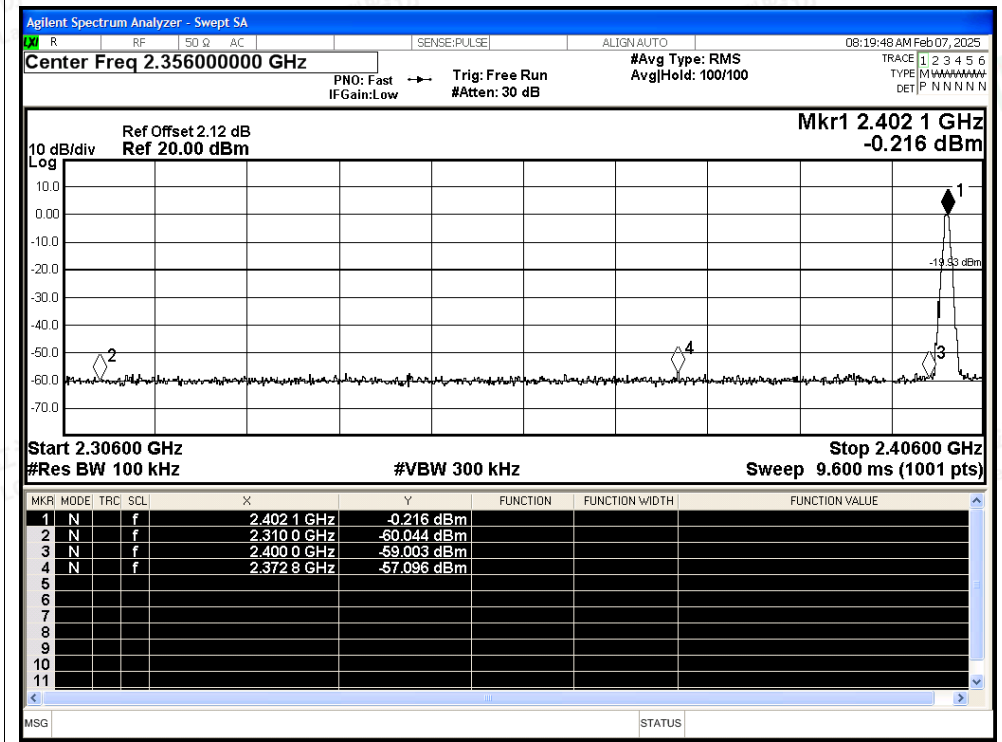


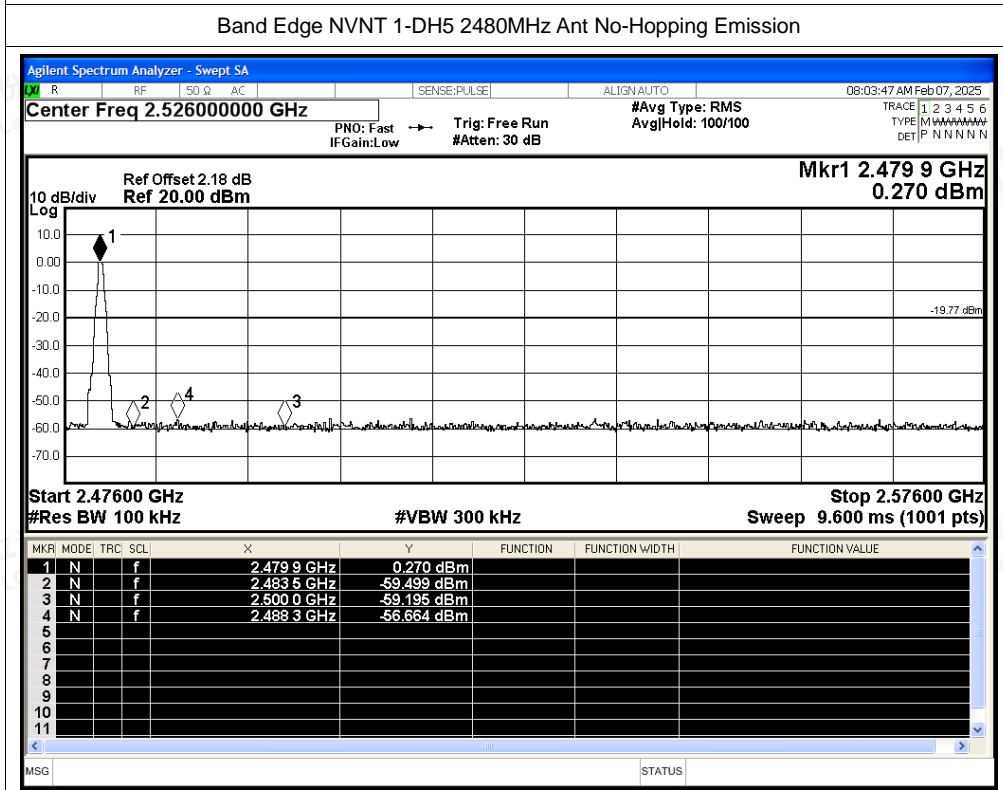
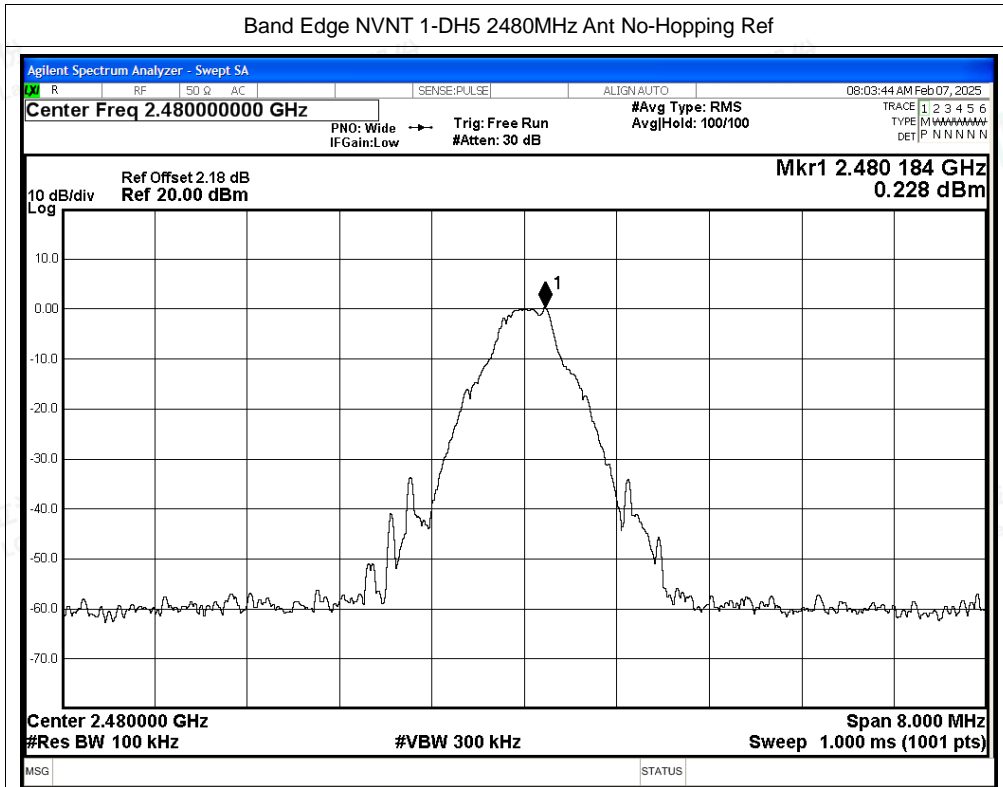
Test Graphs

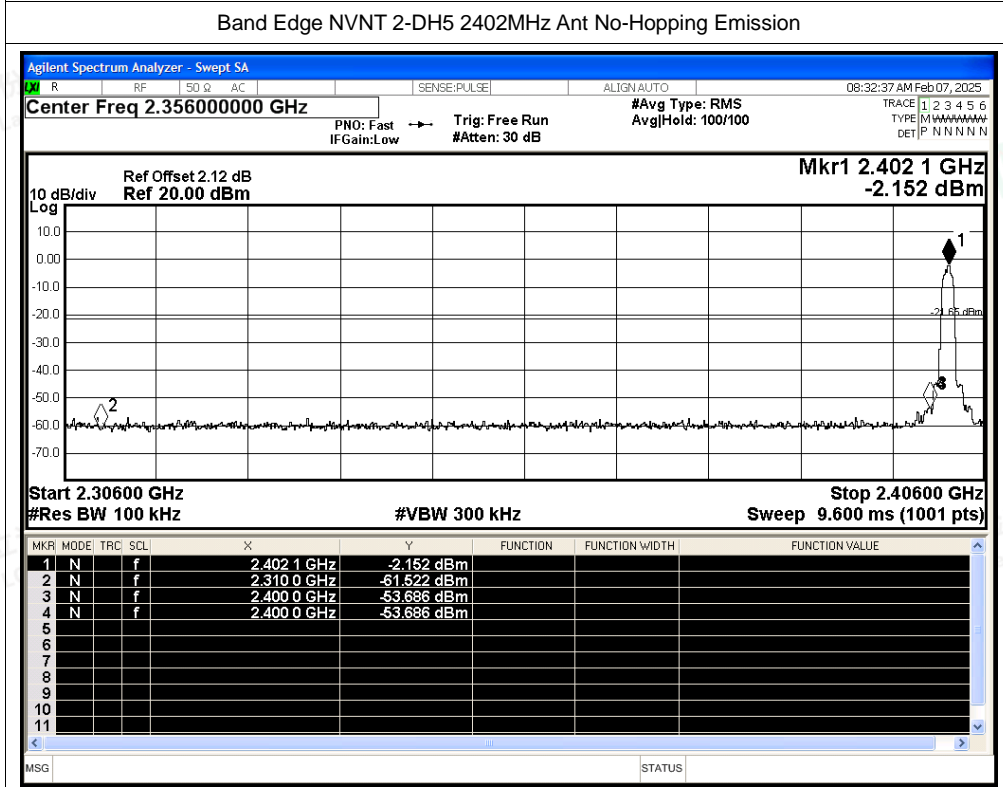
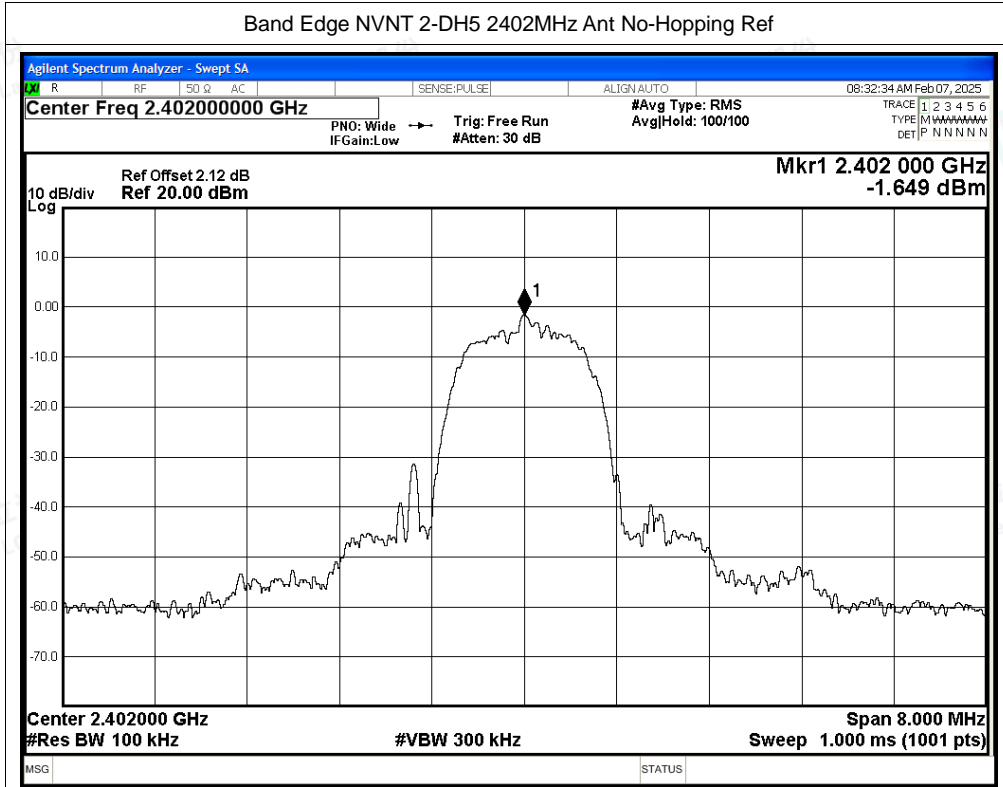
Band Edge NVNT 1-DH5 2402MHz Ant No-Hopping Ref

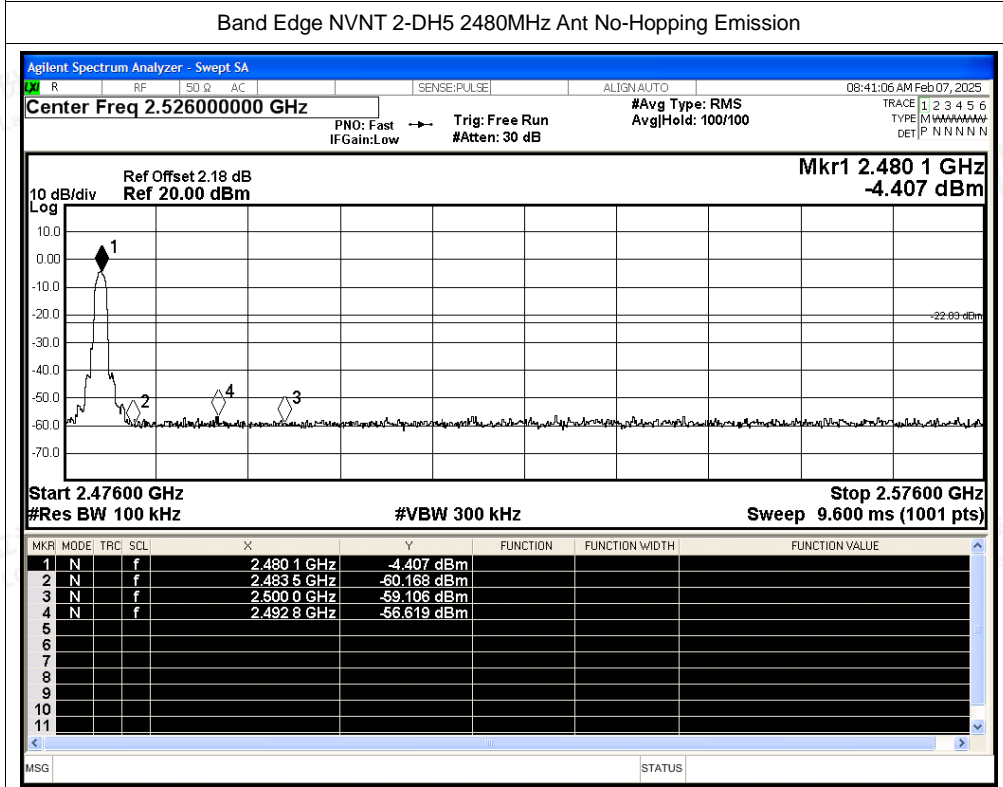
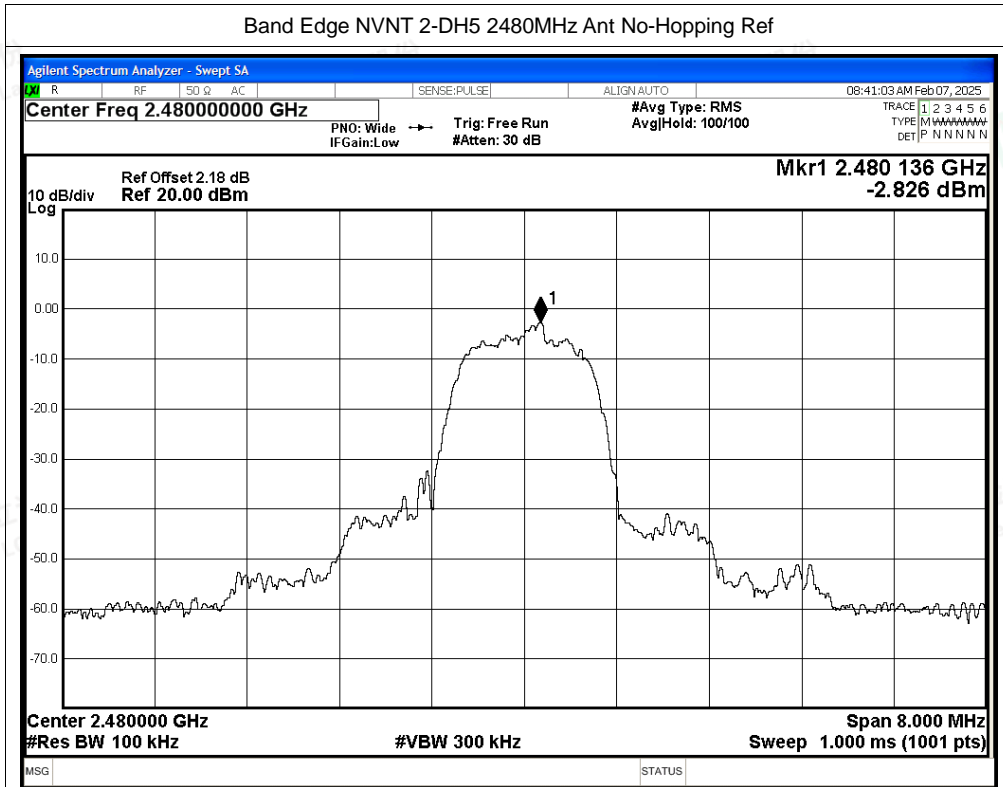


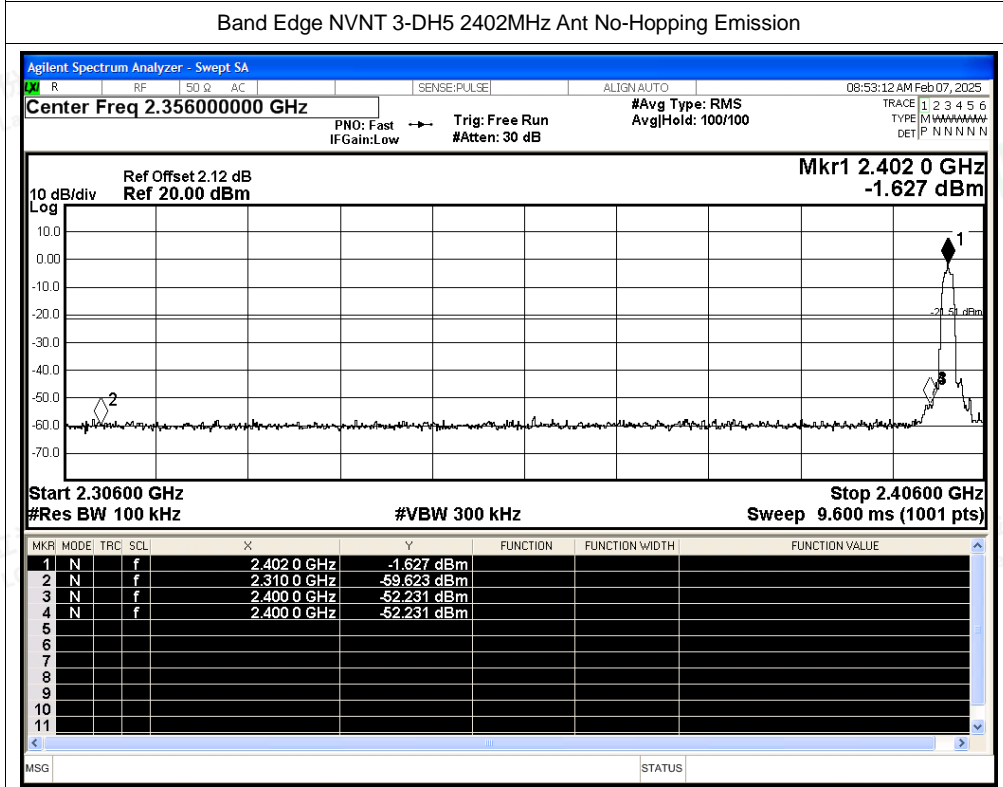
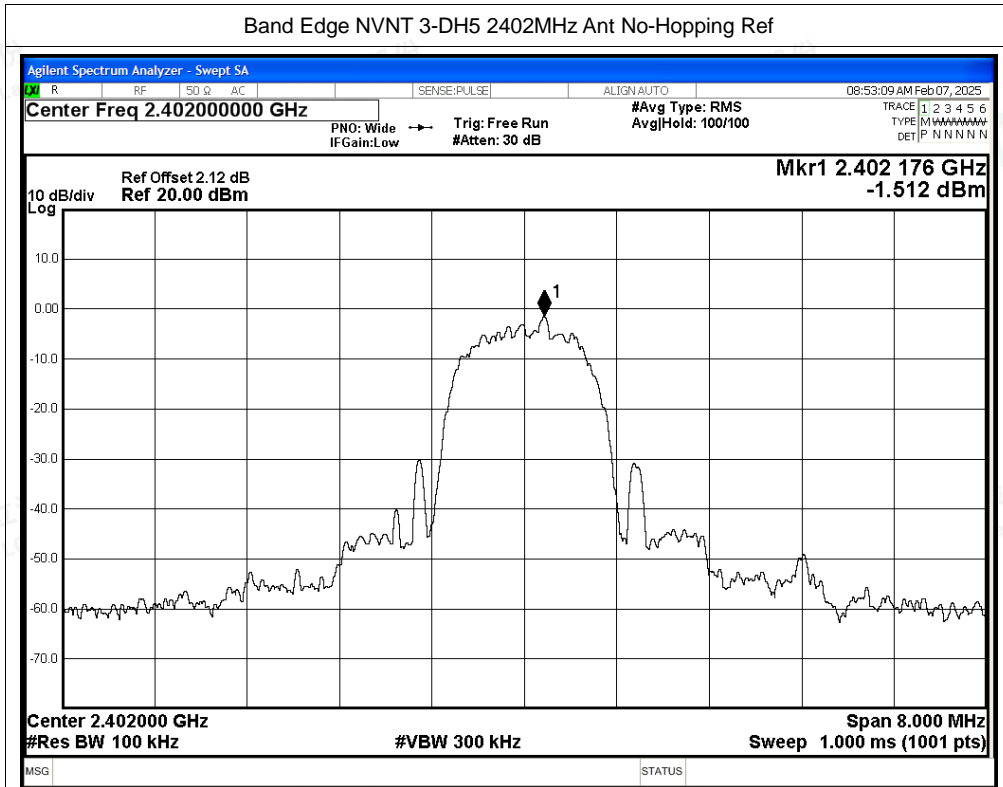
Band Edge NVNT 1-DH5 2402MHz Ant No-Hopping Emission

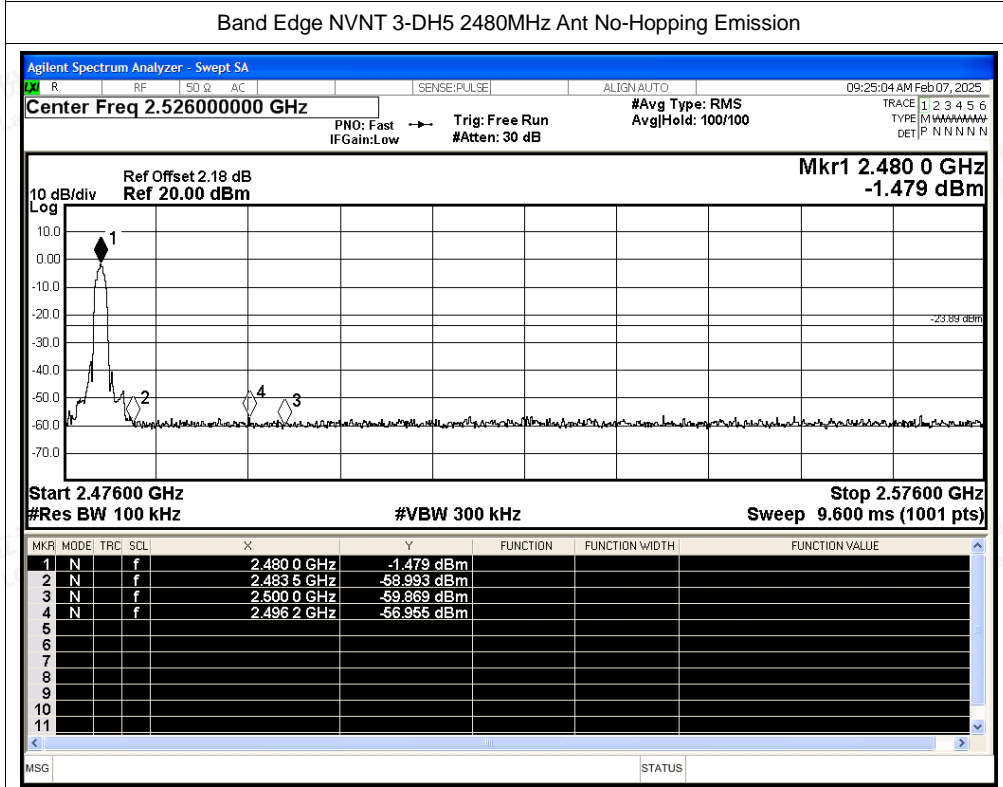
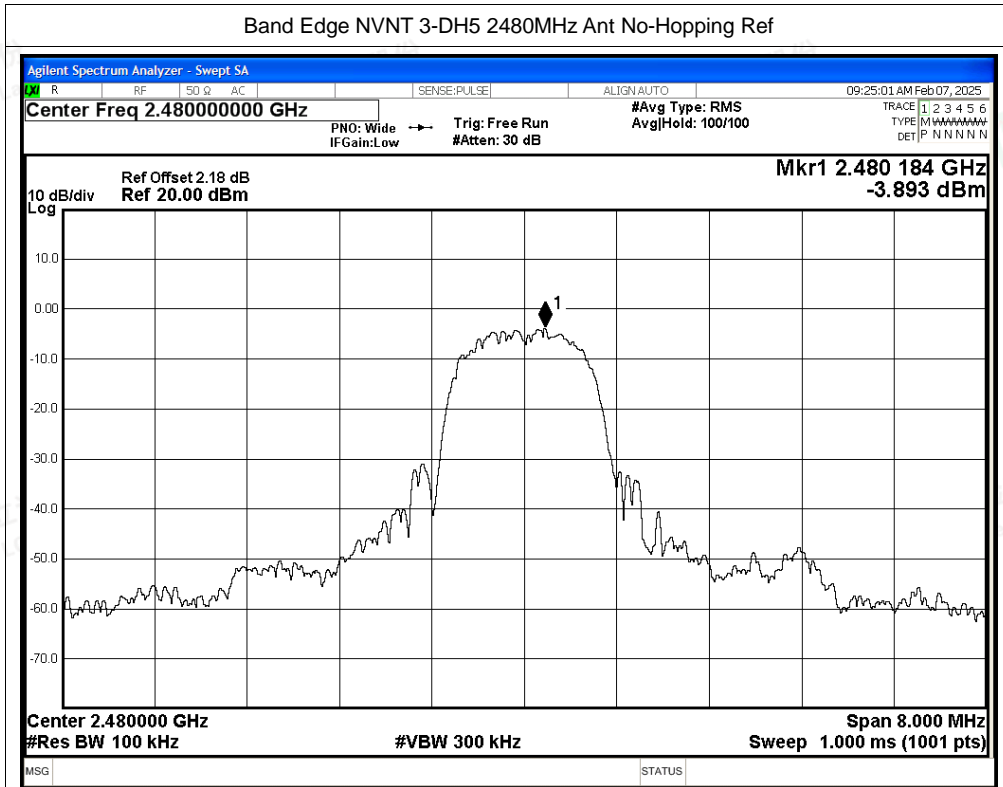














### (Hopping)

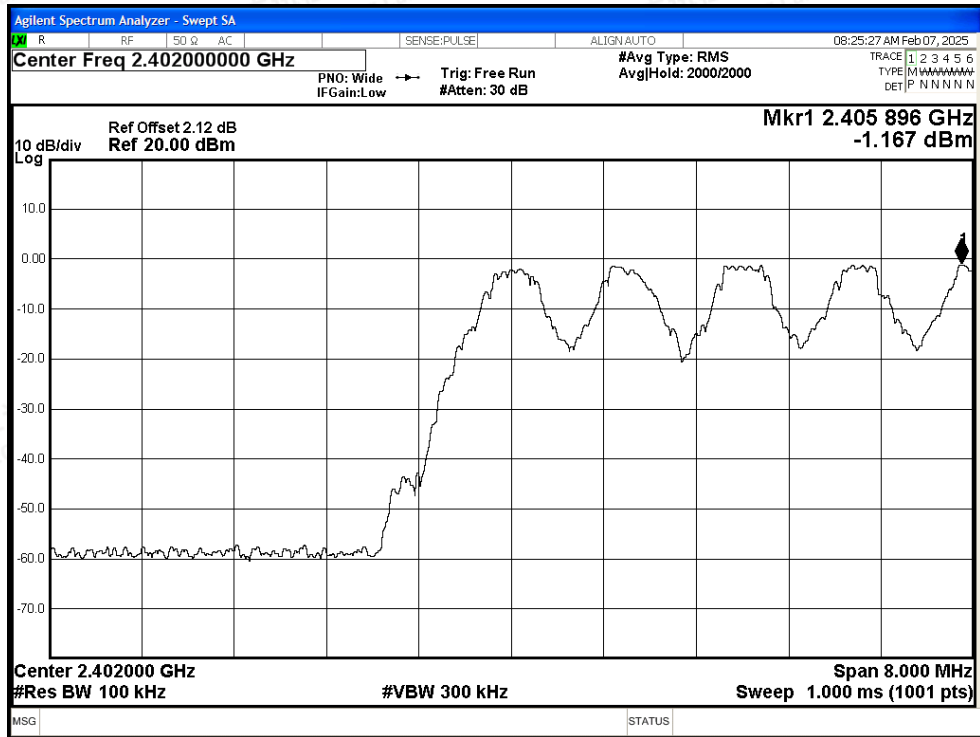
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant	Hopping	-54.61	-20	Pass
NVNT	1-DH5	2480	Ant	Hopping	-54.26	-20	Pass
NVNT	2-DH5	2402	Ant	Hopping	-51.3	-20	Pass
NVNT	2-DH5	2480	Ant	Hopping	-53.54	-20	Pass
NVNT	3-DH5	2402	Ant	Hopping	-52.99	-20	Pass
NVNT	3-DH5	2480	Ant	Hopping	-54.2	-20	Pass



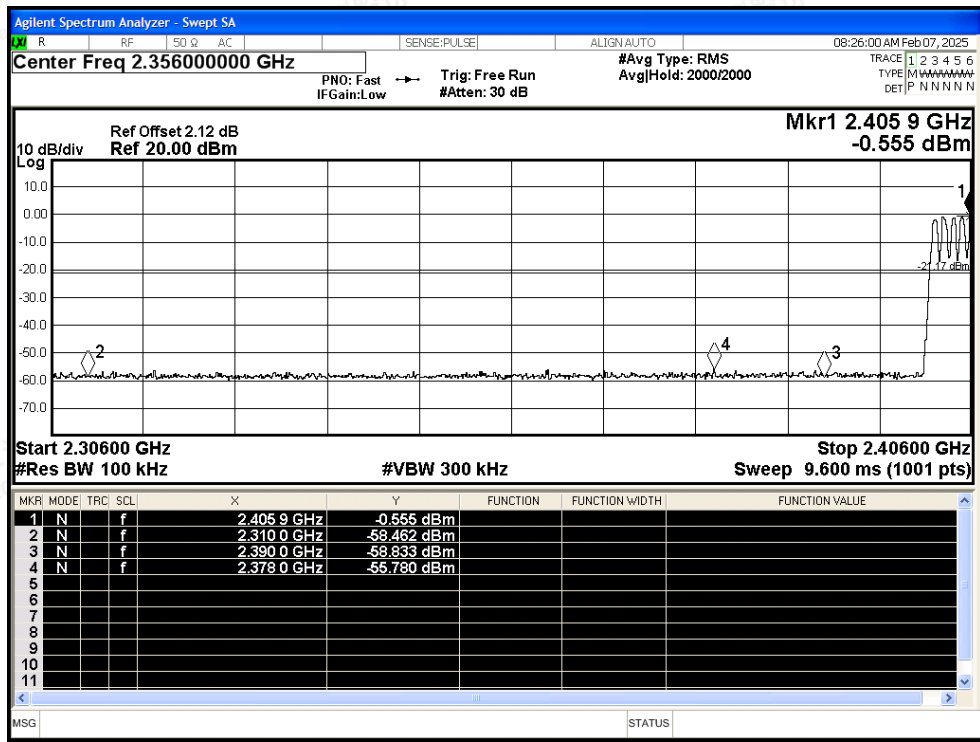


Test Graphs

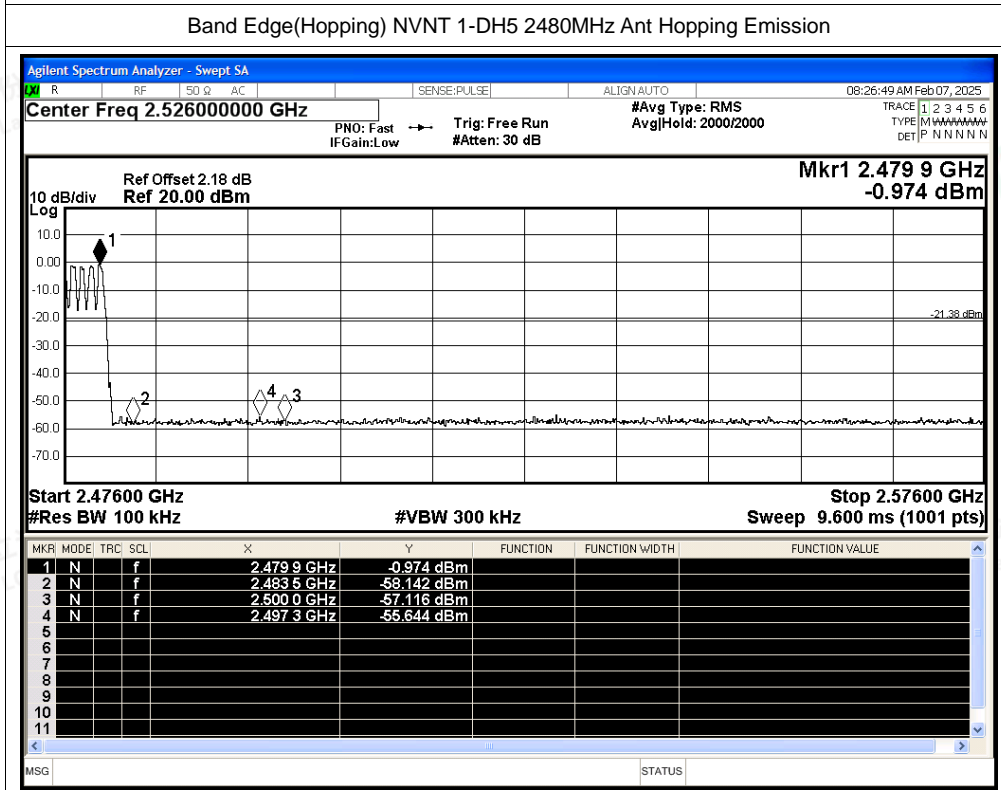
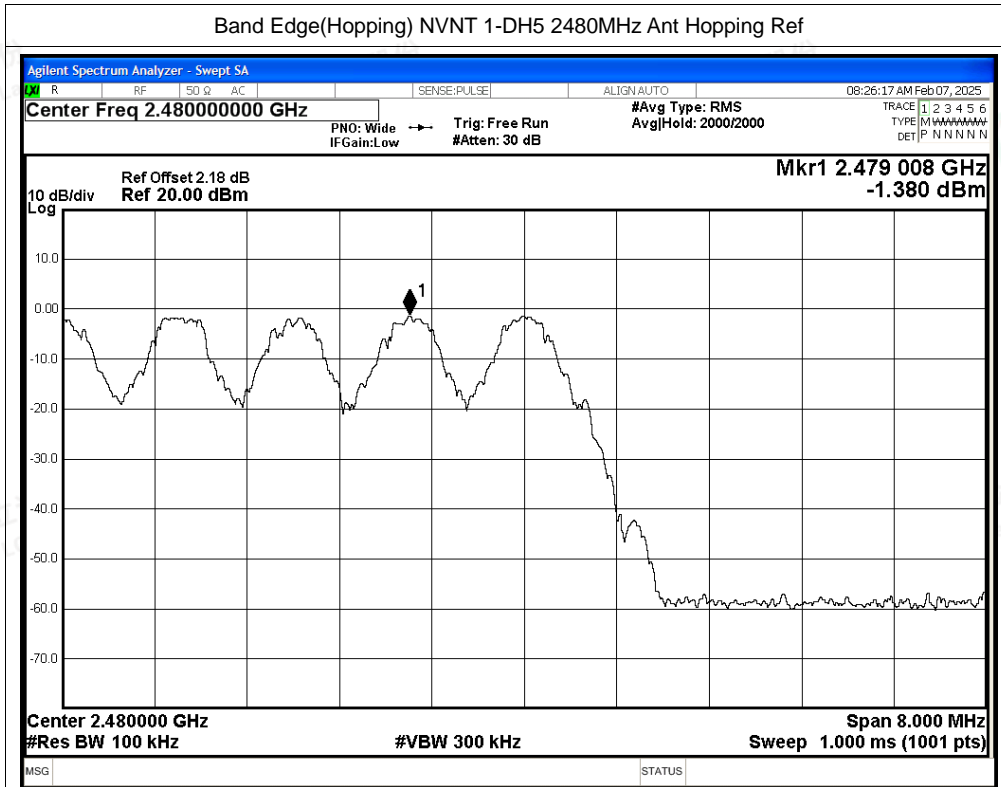
Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant Hopping Ref

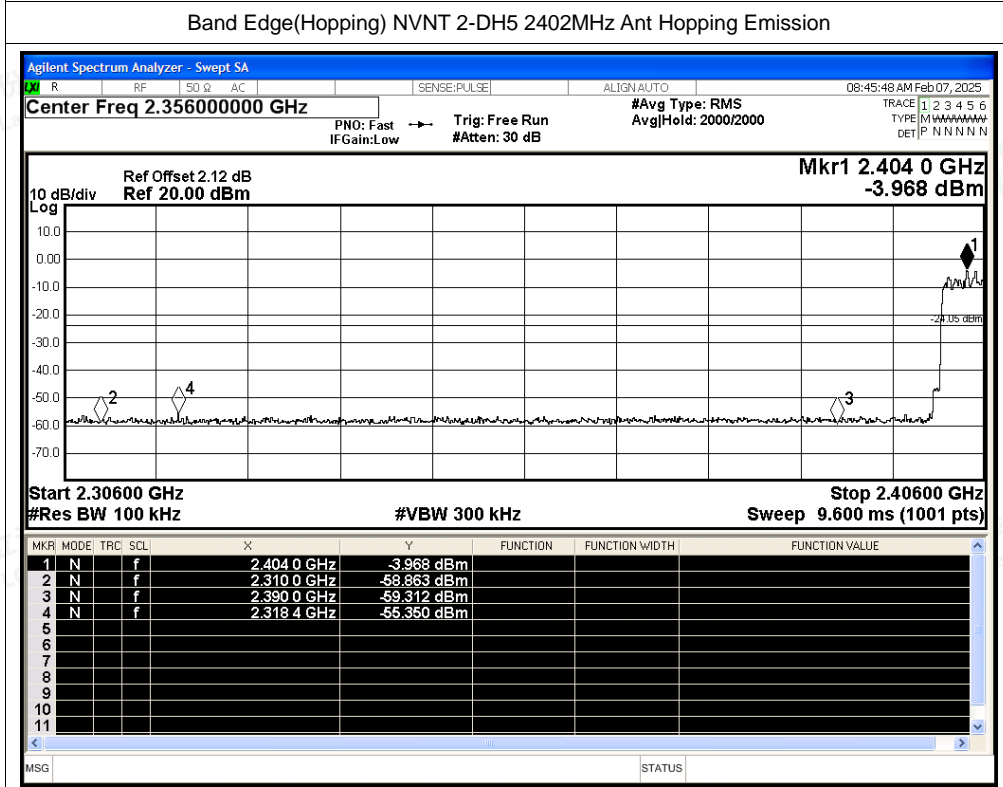
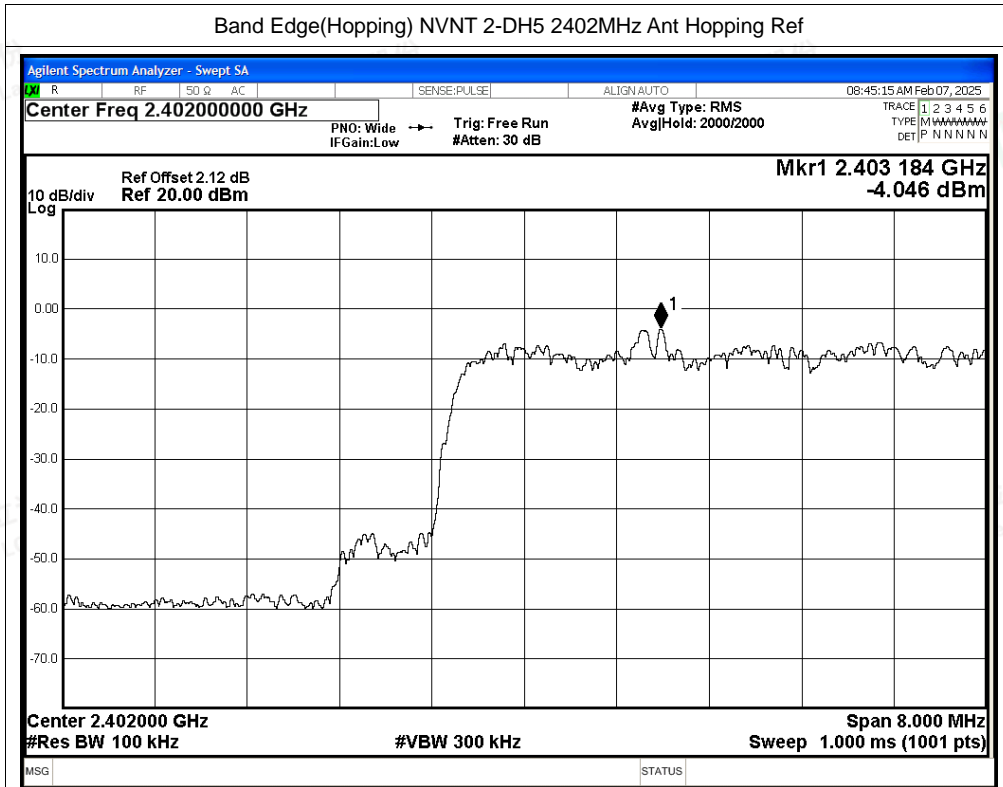


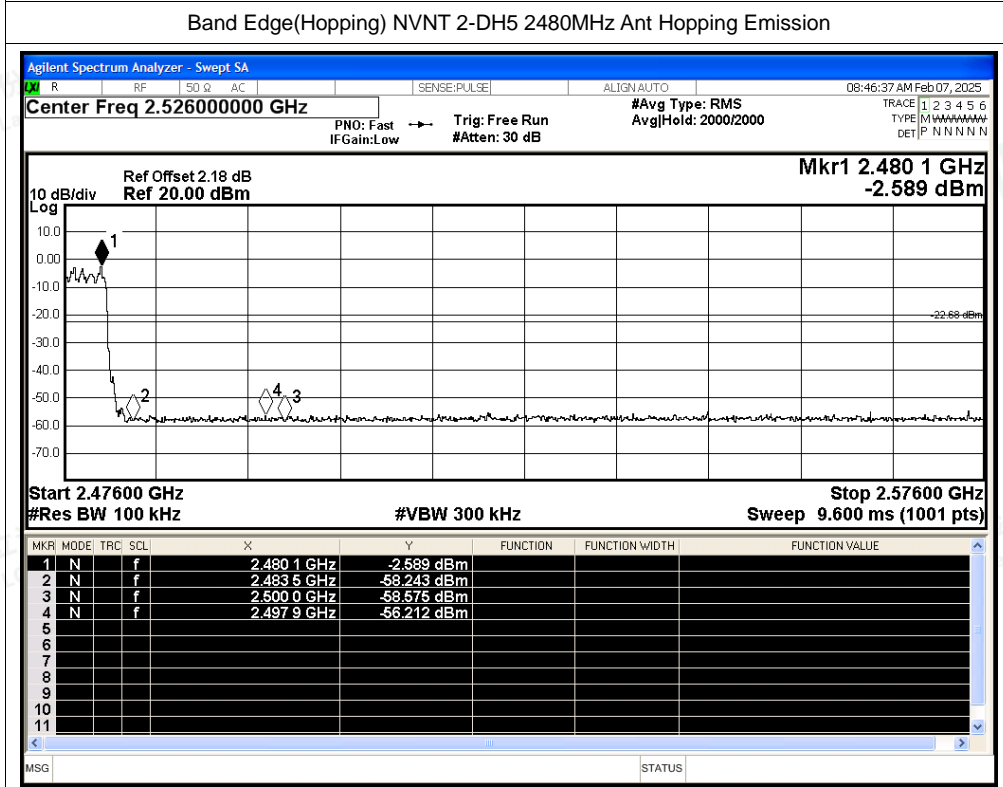
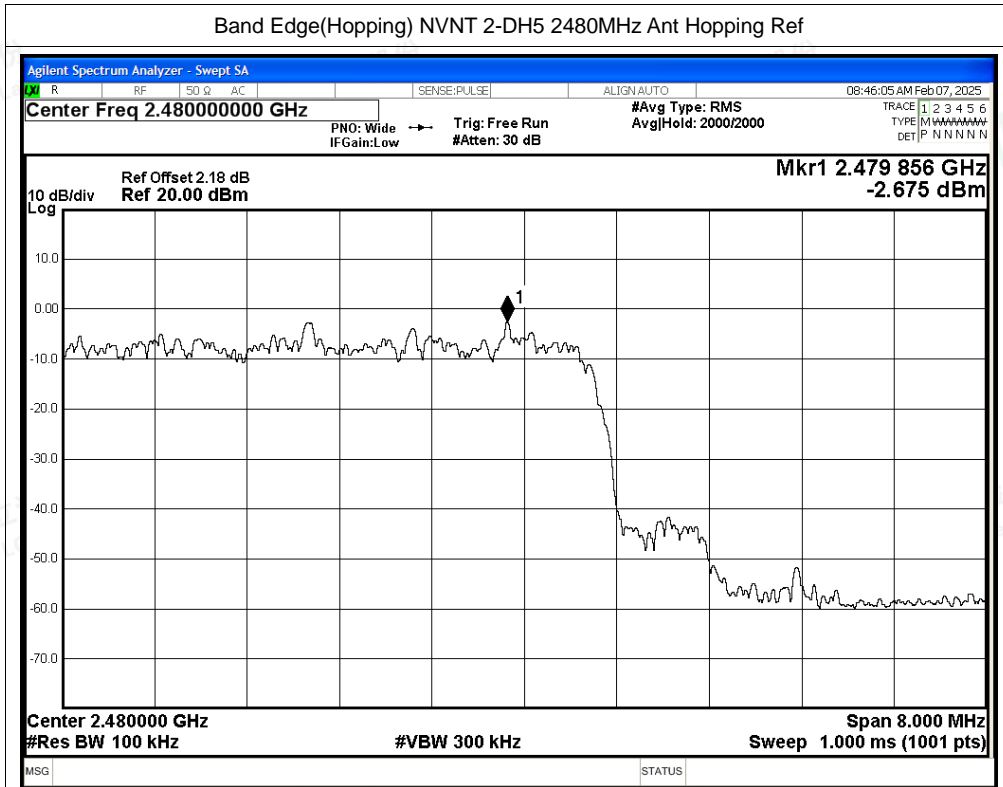
Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant Hopping Emission

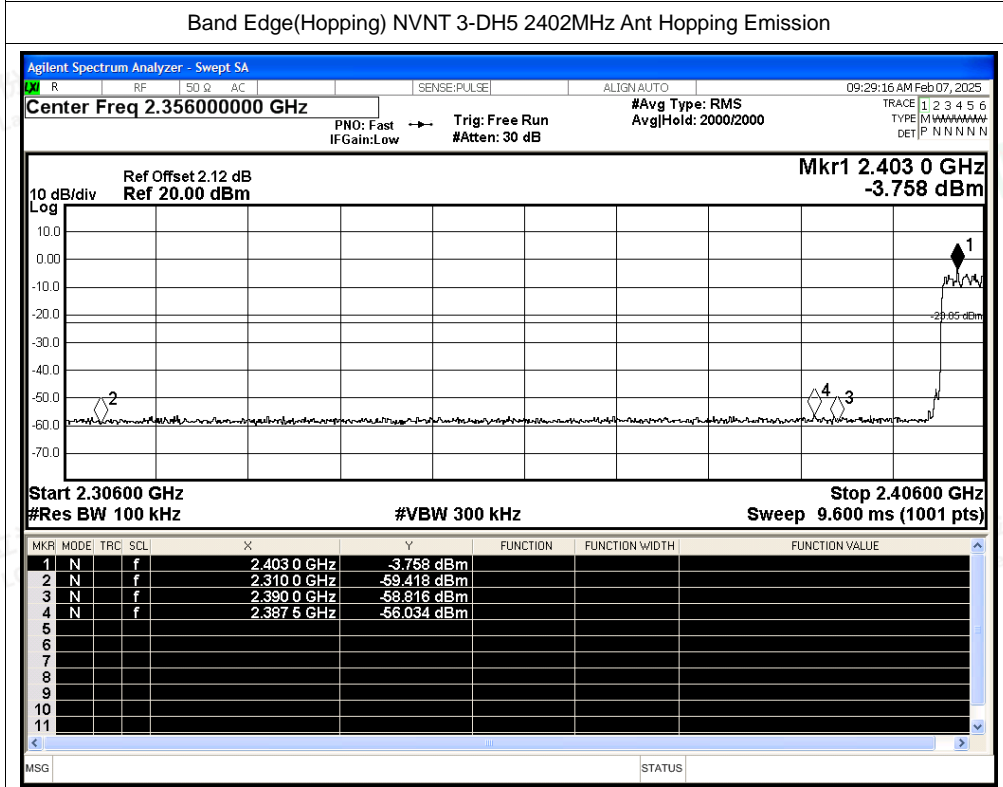
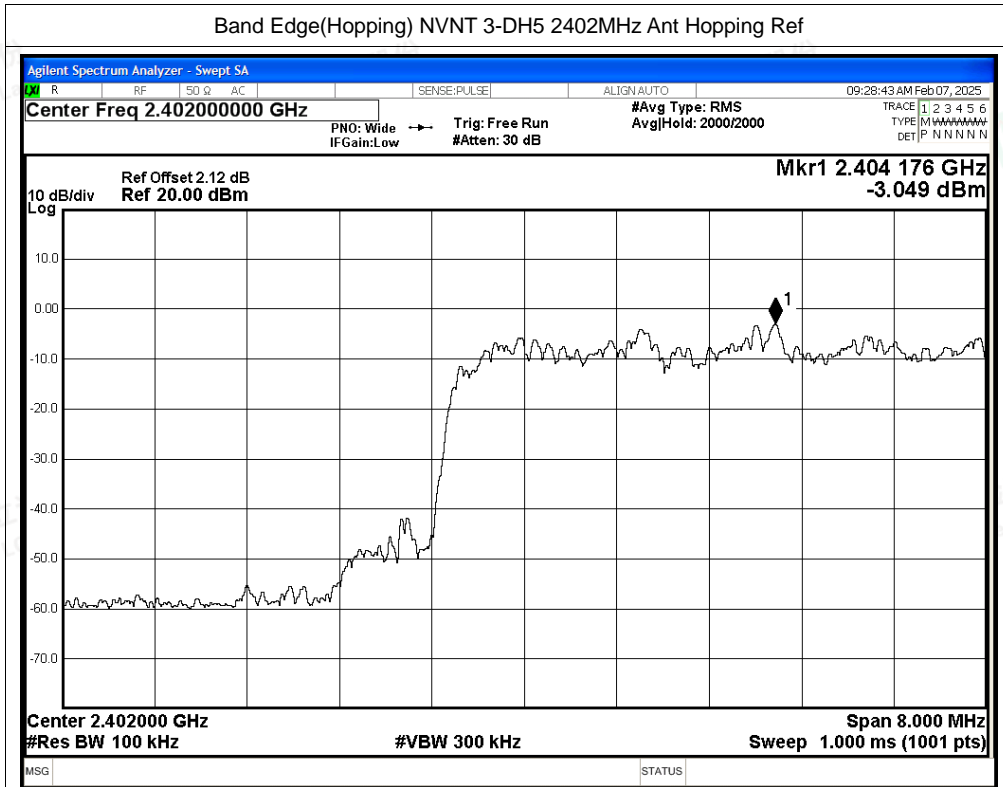


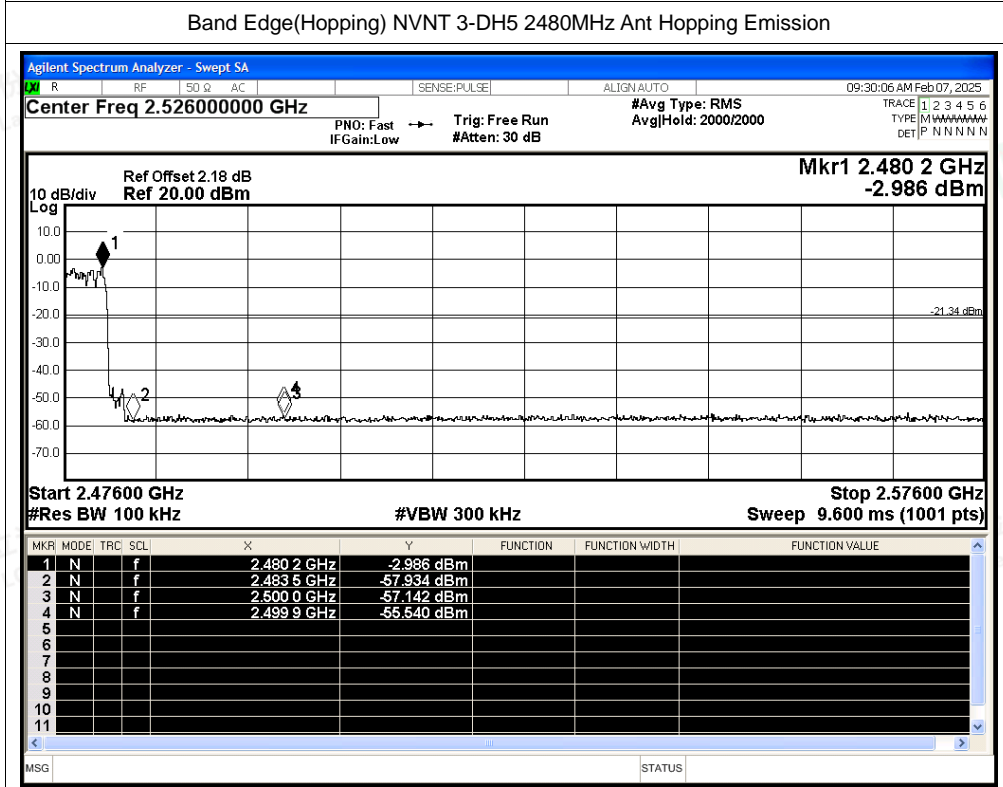
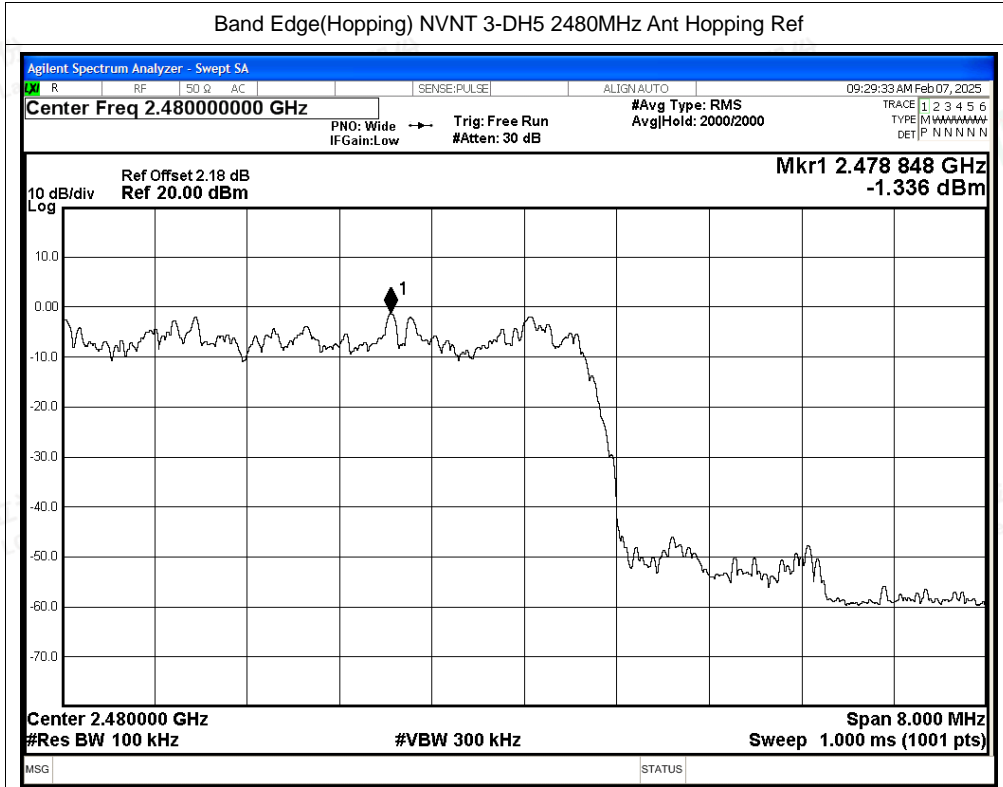














### A.7 Conducted RF Spurious Emission

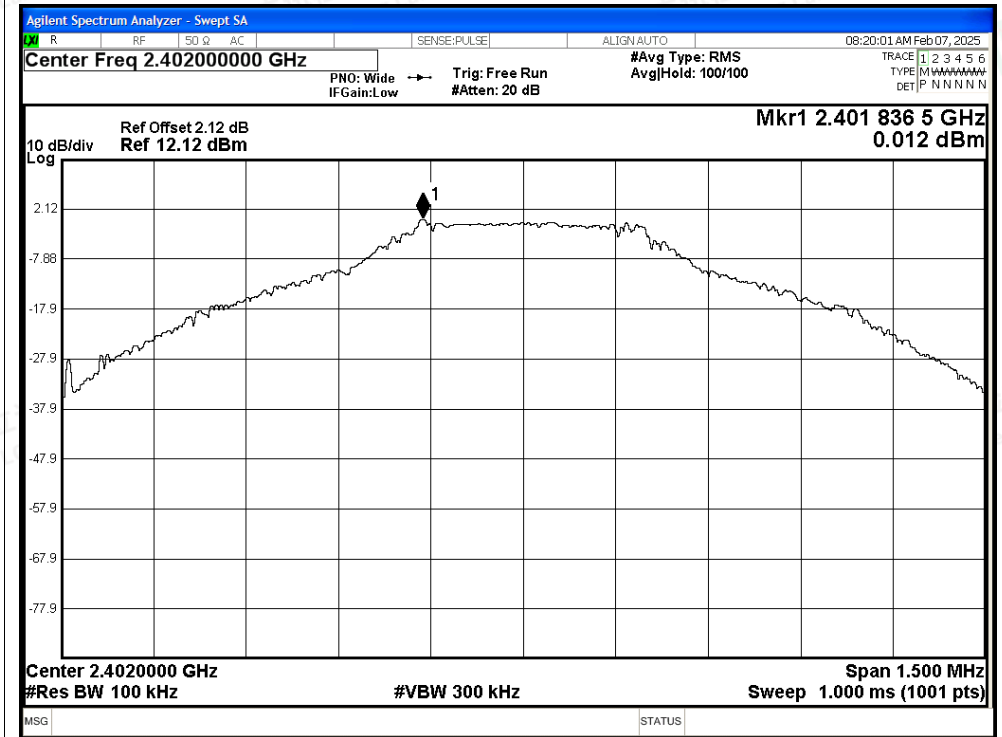
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant	-55.2	-20	Pass
NVNT	1-DH5	2441	Ant	-55.75	-20	Pass
NVNT	1-DH5	2480	Ant	-56.04	-20	Pass
NVNT	2-DH5	2402	Ant	-54.01	-20	Pass
NVNT	2-DH5	2441	Ant	-52.93	-20	Pass
NVNT	2-DH5	2480	Ant	-52.33	-20	Pass
NVNT	3-DH5	2402	Ant	-53.47	-20	Pass
NVNT	3-DH5	2441	Ant	-52.07	-20	Pass
NVNT	3-DH5	2480	Ant	-53.16	-20	Pass



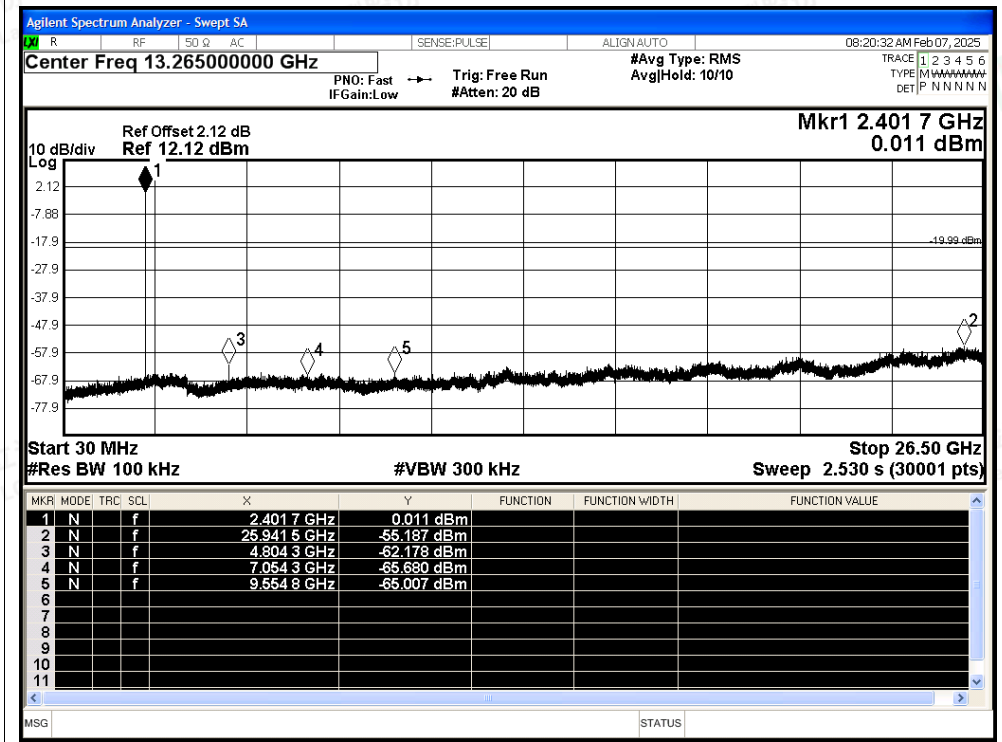


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant Ref

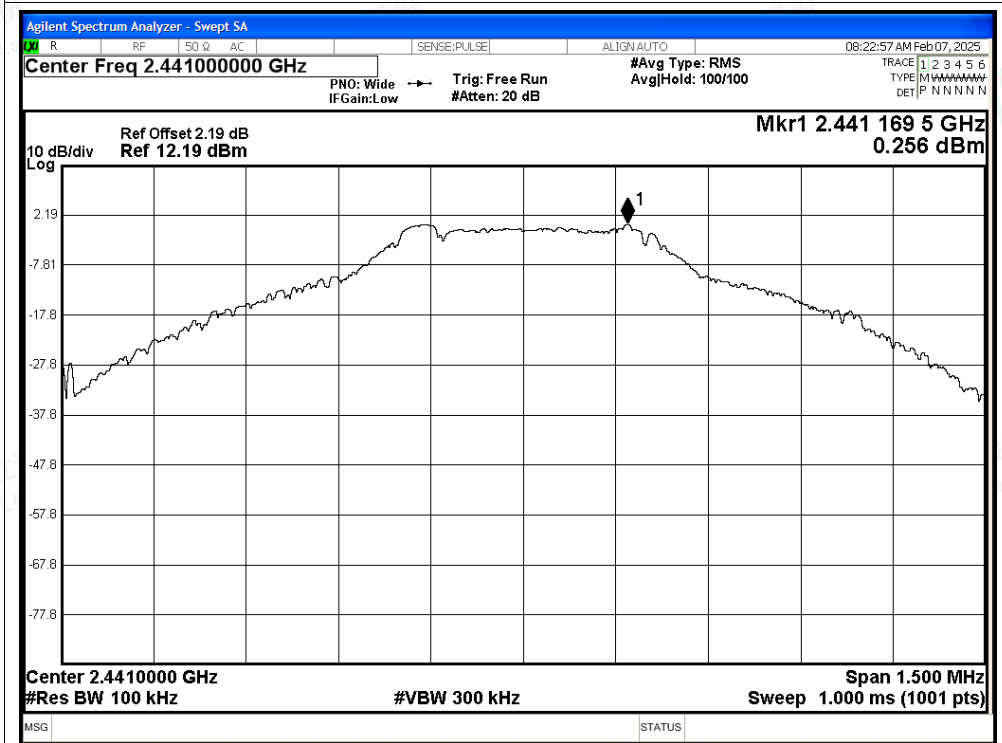


Tx. Spurious NVNT 1-DH5 2402MHz Ant Emission

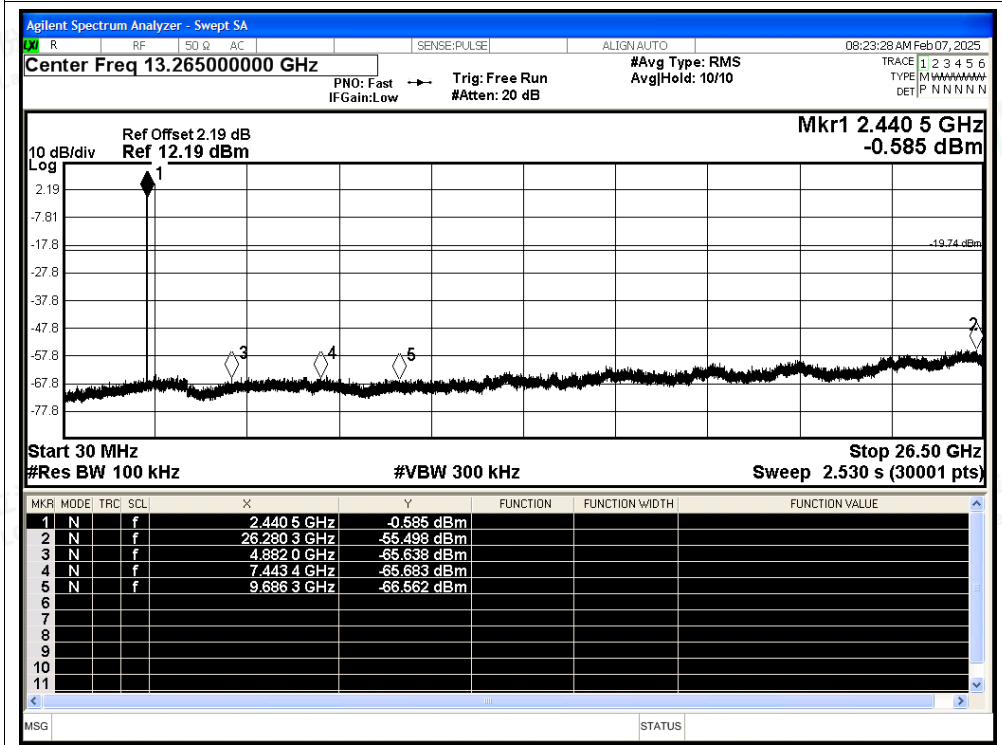




Tx. Spurious NVNT 1-DH5 2441MHz Ant Ref



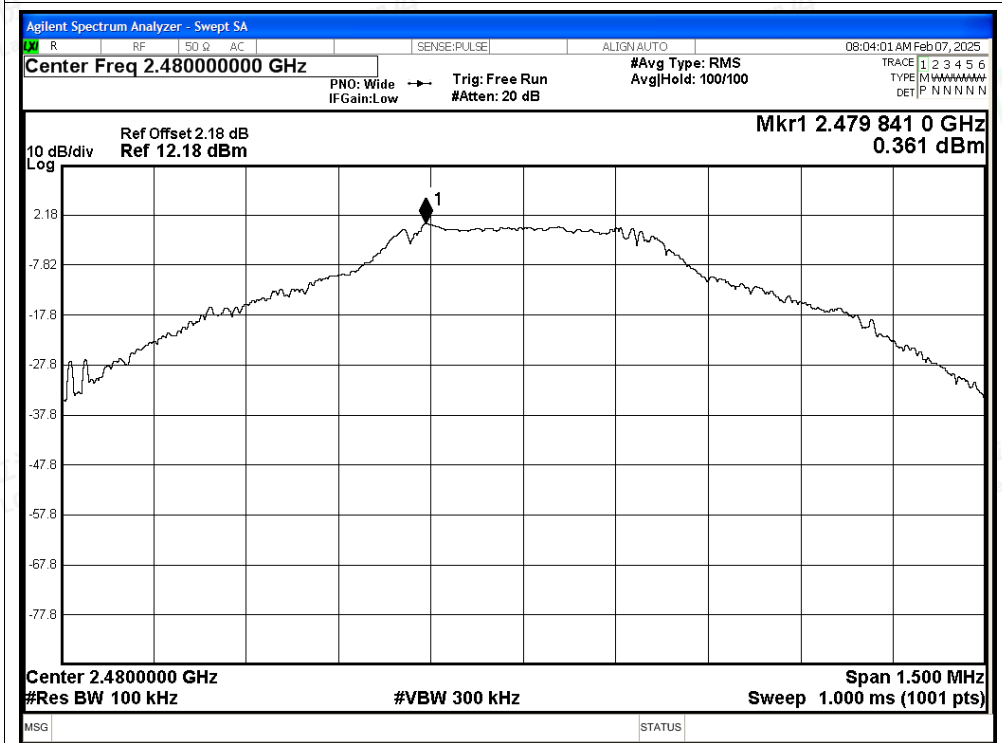
Tx. Spurious NVNT 1-DH5 2441MHz Ant Emission



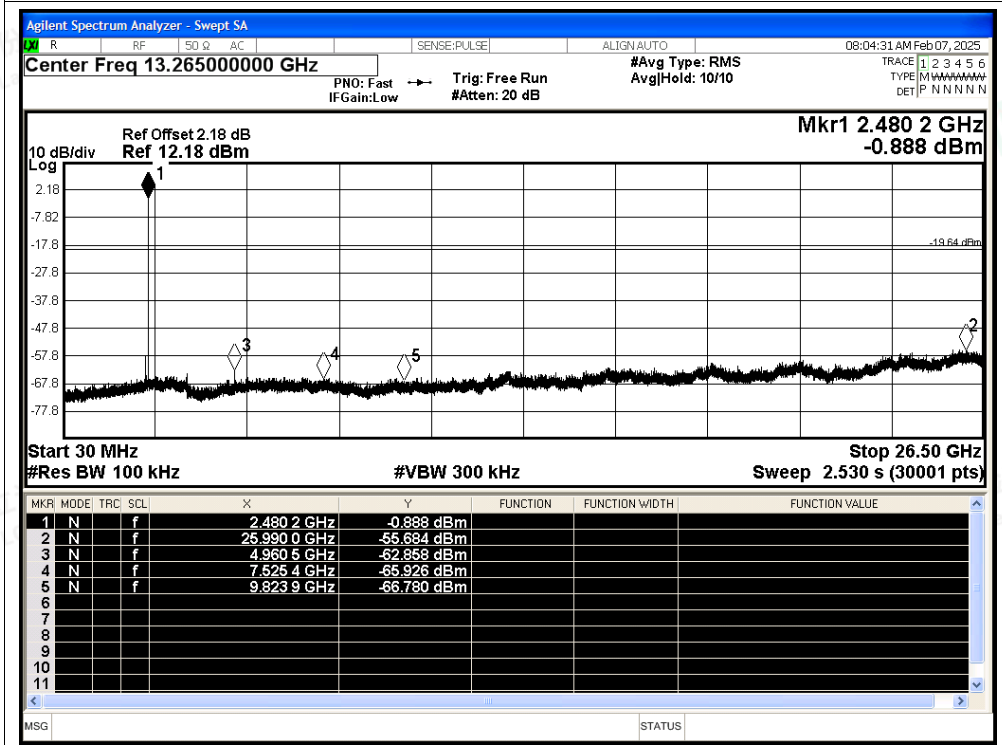




Tx. Spurious NVNT 1-DH5 2480MHz Ant Ref

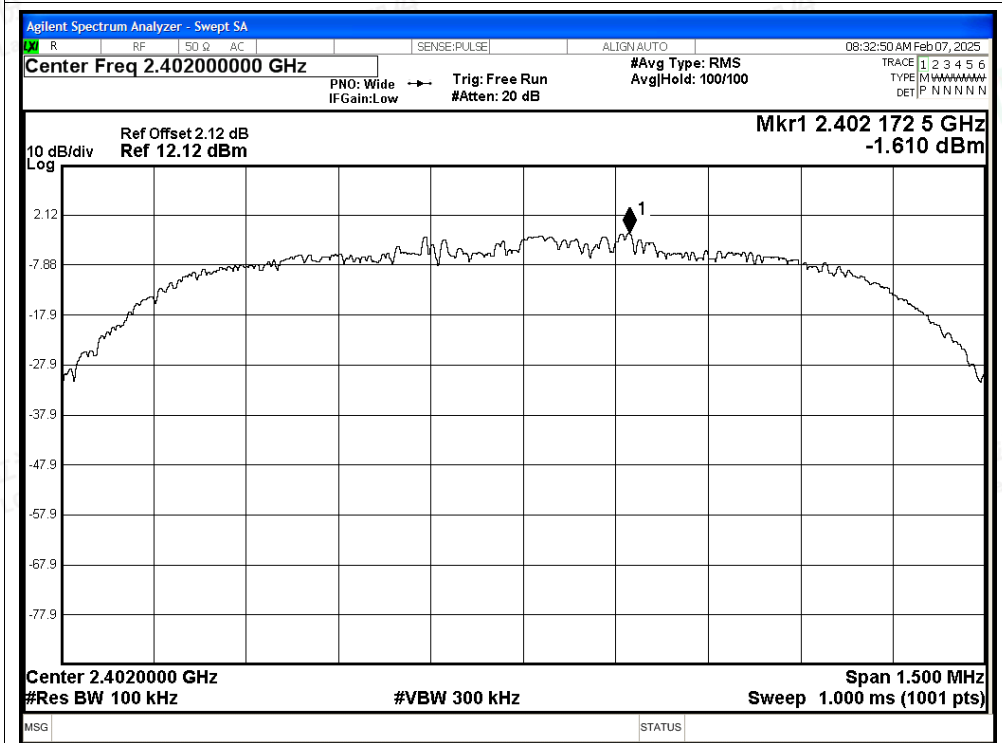


Tx. Spurious NVNT 1-DH5 2480MHz Ant Emission

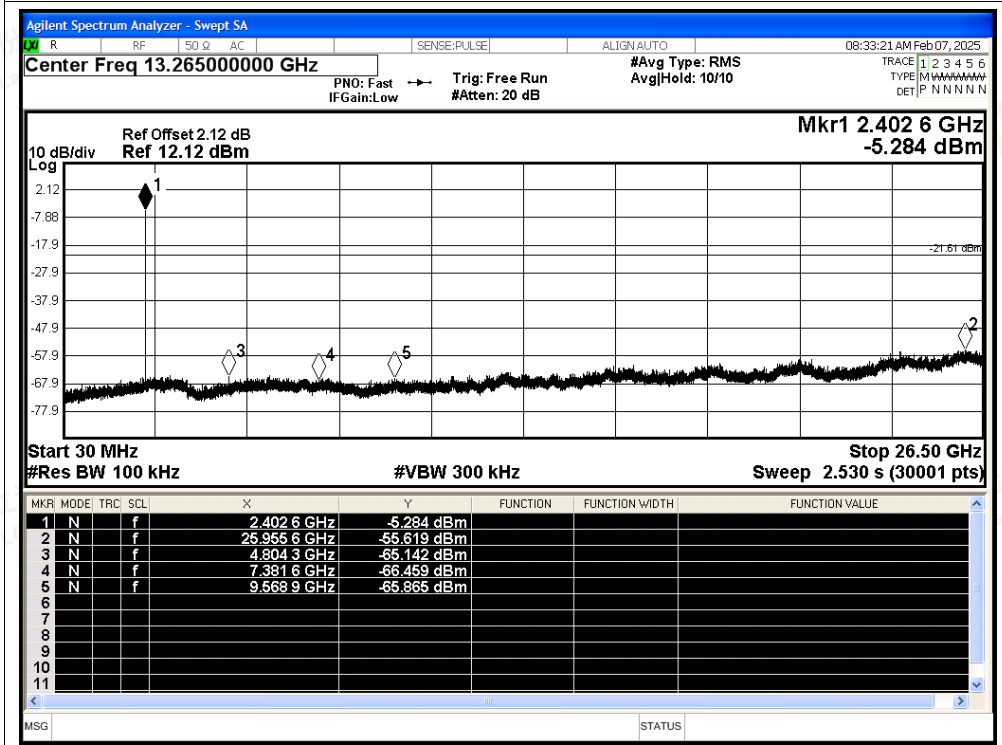




Tx. Spurious NVNT 2-DH5 2402MHz Ant Ref

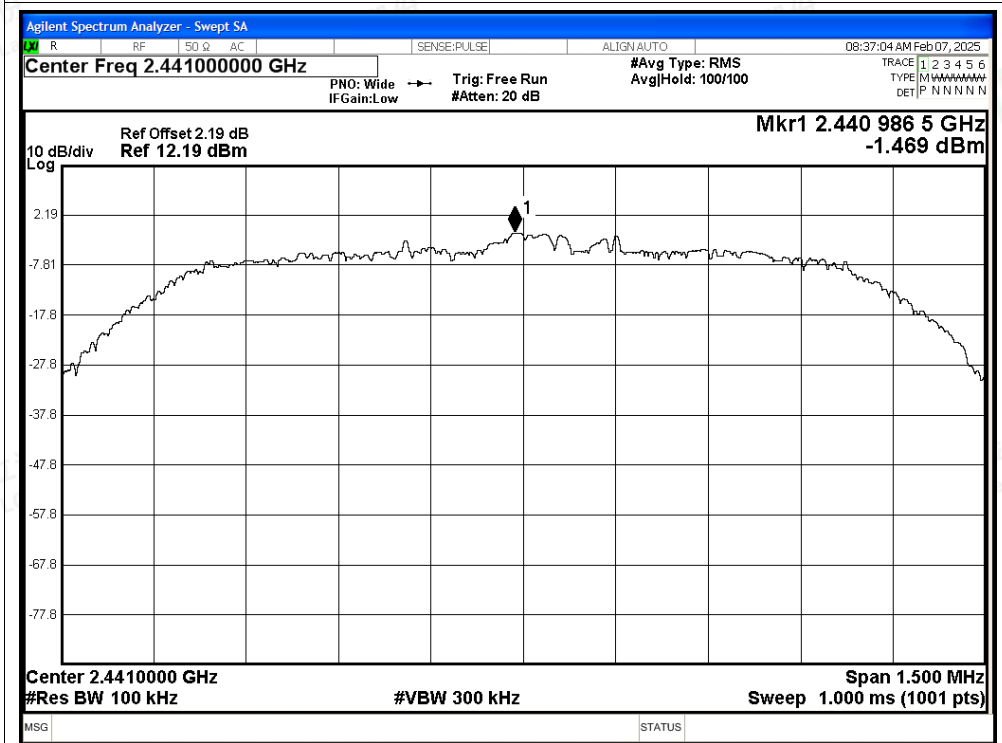


Tx. Spurious NVNT 2-DH5 2402MHz Ant Emission

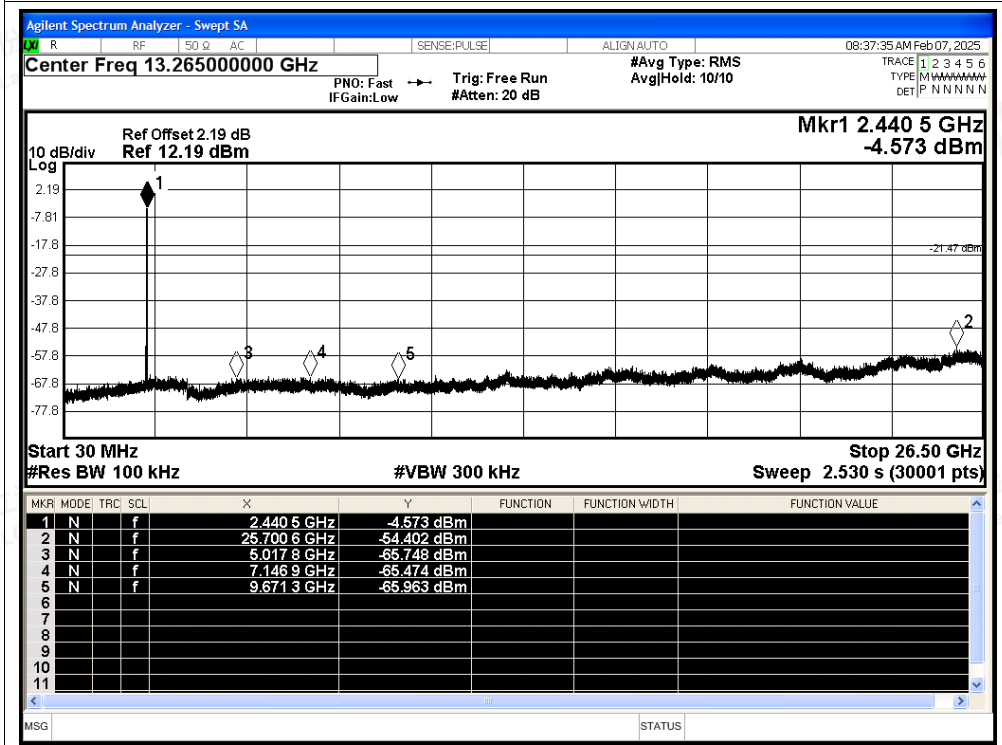




Tx. Spurious NVNT 2-DH5 2441MHz Ant Ref

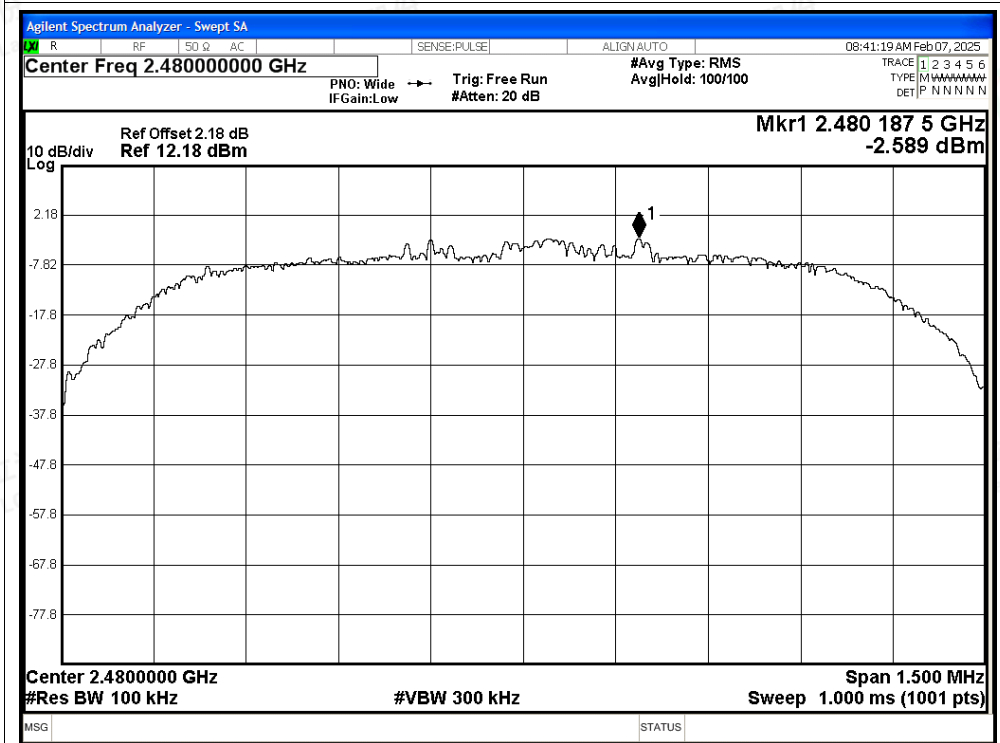


Tx. Spurious NVNT 2-DH5 2441MHz Ant Emission

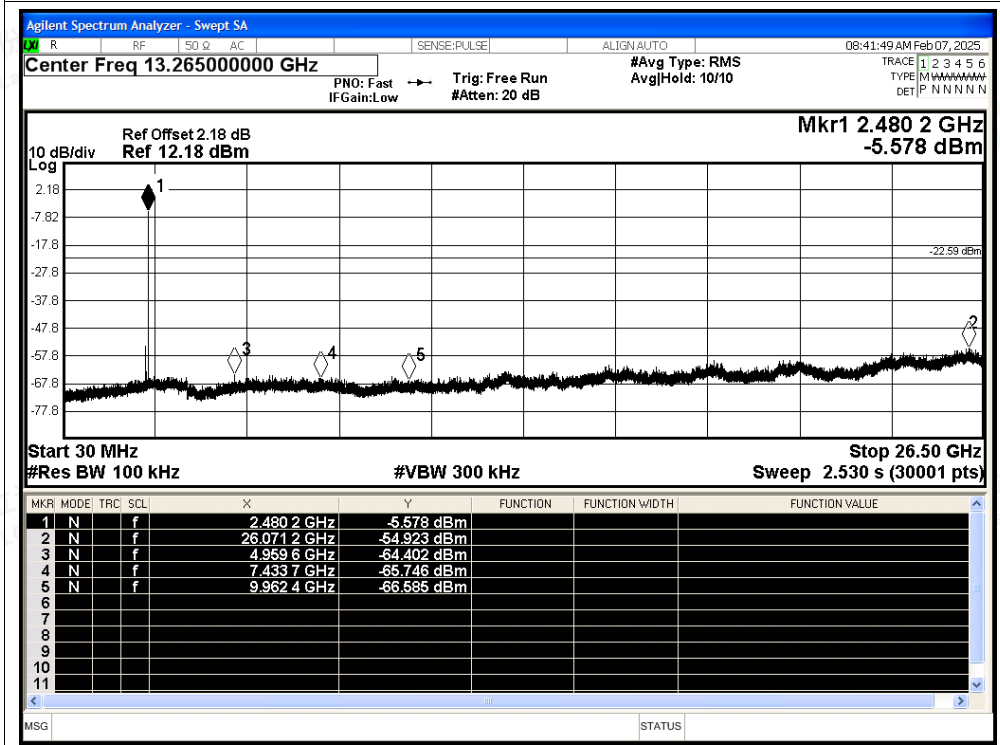




Tx. Spurious NVNT 2-DH5 2480MHz Ant Ref

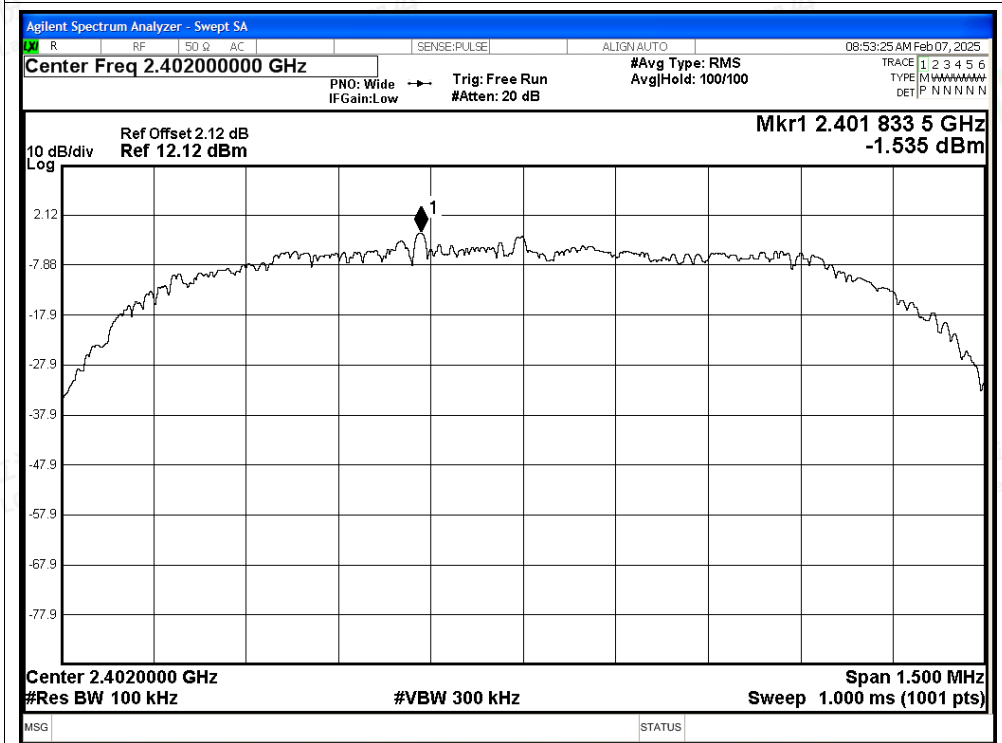


Tx. Spurious NVNT 2-DH5 2480MHz Ant Emission

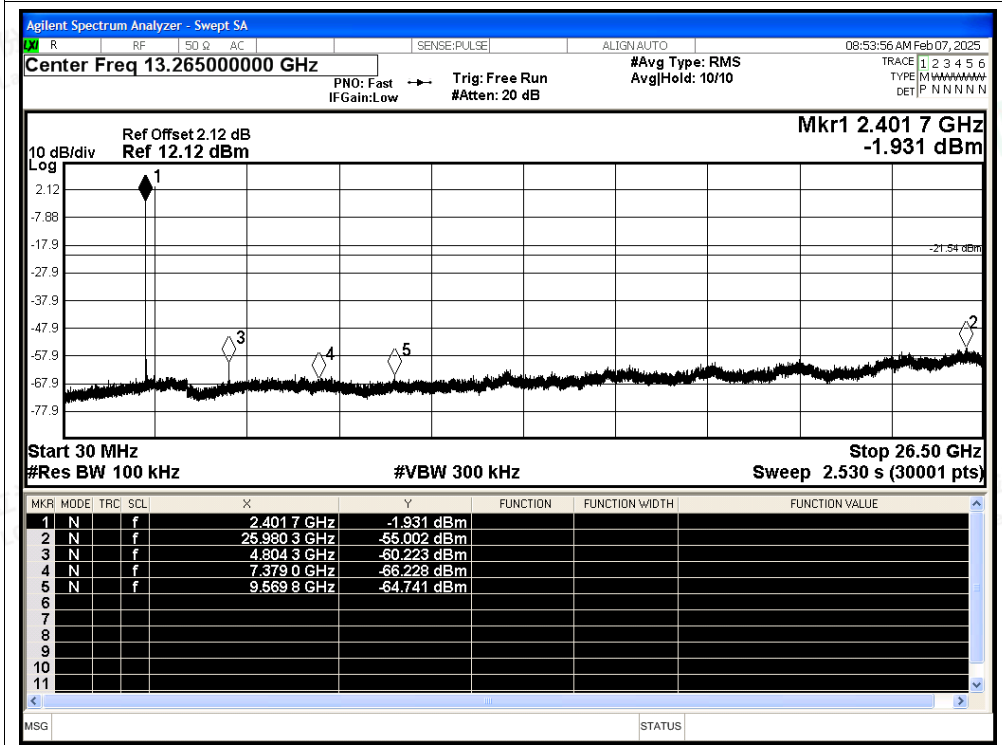




Tx. Spurious NVNT 3-DH5 2402MHz Ant Ref

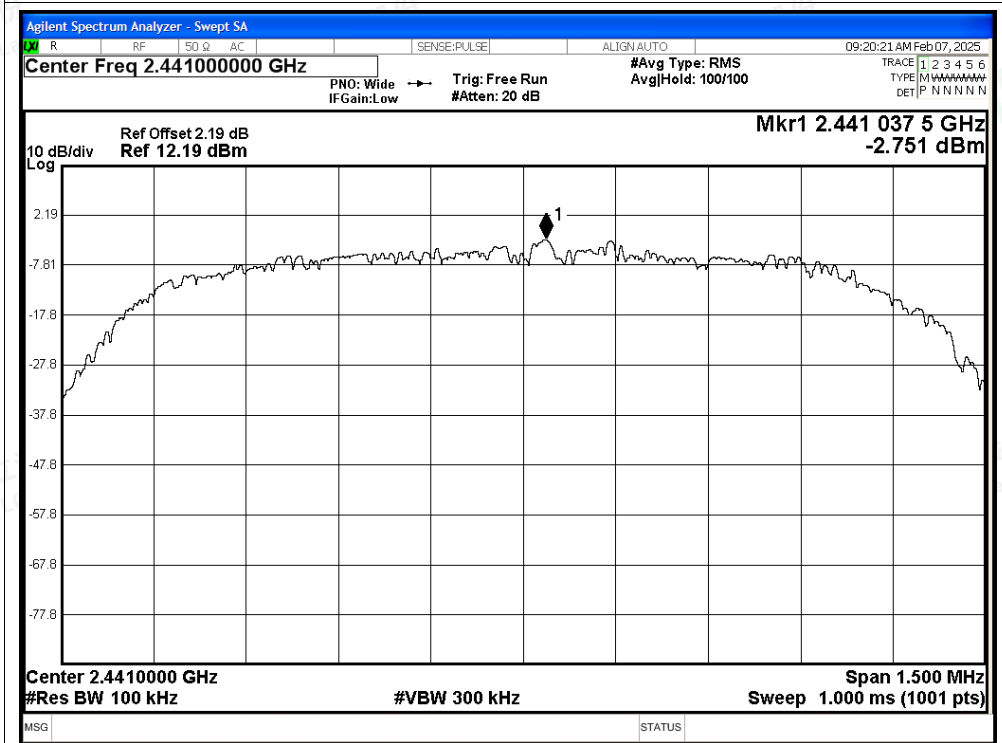


Tx. Spurious NVNT 3-DH5 2402MHz Ant Emission

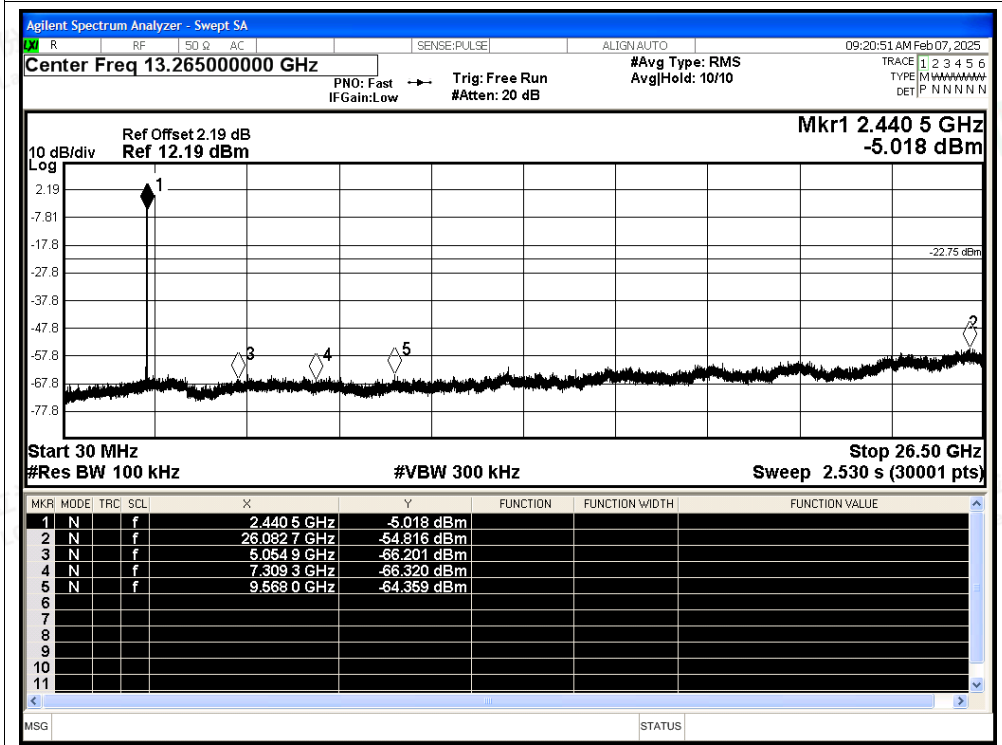




Tx. Spurious NVNT 3-DH5 2441MHz Ant Ref

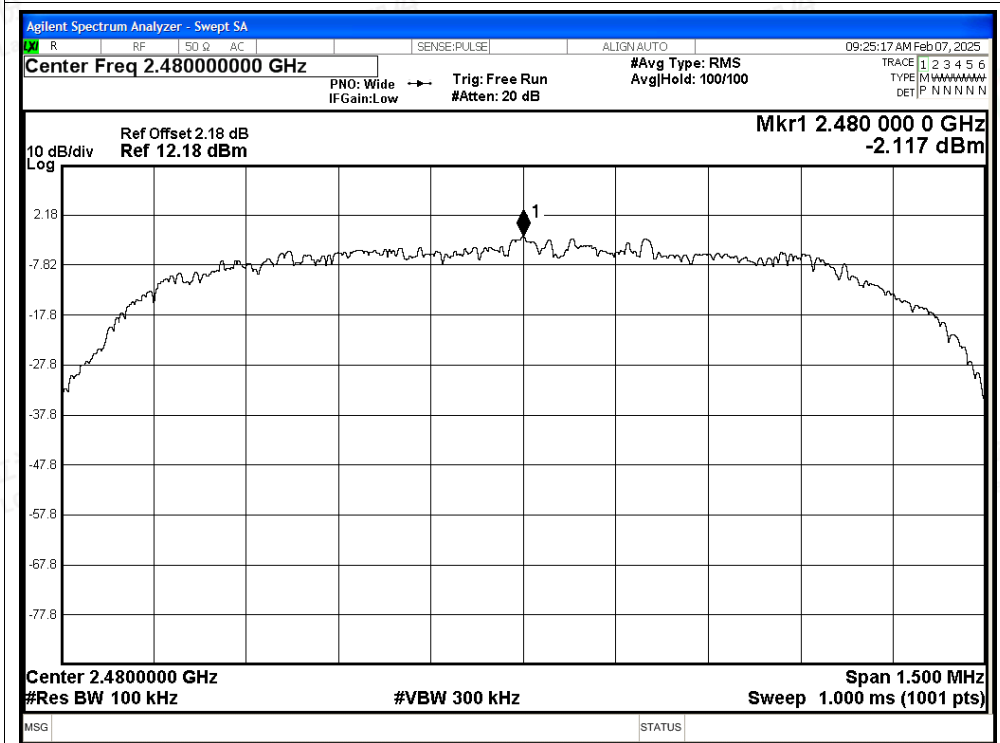


Tx. Spurious NVNT 3-DH5 2441MHz Ant Emission

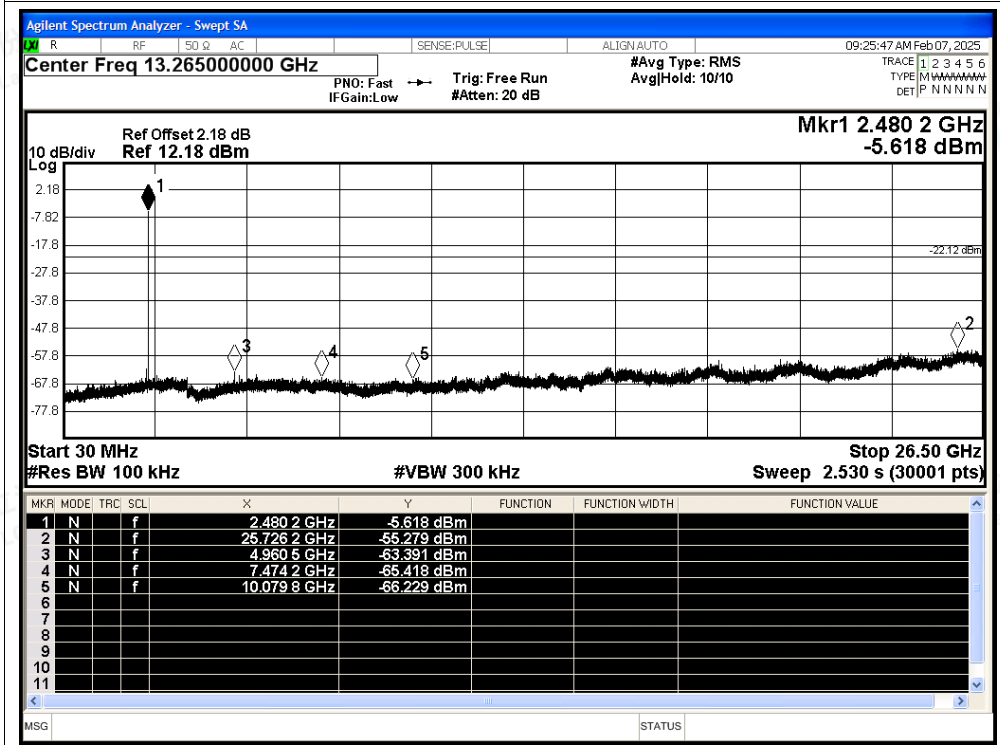




Tx. Spurious NVNT 3-DH5 2480MHz Ant Ref



Tx. Spurious NVNT 3-DH5 2480MHz Ant Emission





### A.8 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	1-DH5	2402	Ant	77.63	1.1	0.34
NVNT	1-DH5	2441	Ant	77.63	1.1	0.34
NVNT	1-DH5	2480	Ant	77.6	1.1	0.34
NVNT	2-DH5	2402	Ant	77.28	1.12	0.35
NVNT	2-DH5	2441	Ant	77.28	1.12	0.35
NVNT	2-DH5	2480	Ant	77.28	1.12	0.35
NVNT	3-DH5	2402	Ant	77.28	1.12	0.35
NVNT	3-DH5	2441	Ant	77.28	1.12	0.35
NVNT	3-DH5	2480	Ant	77.23	1.12	0.35

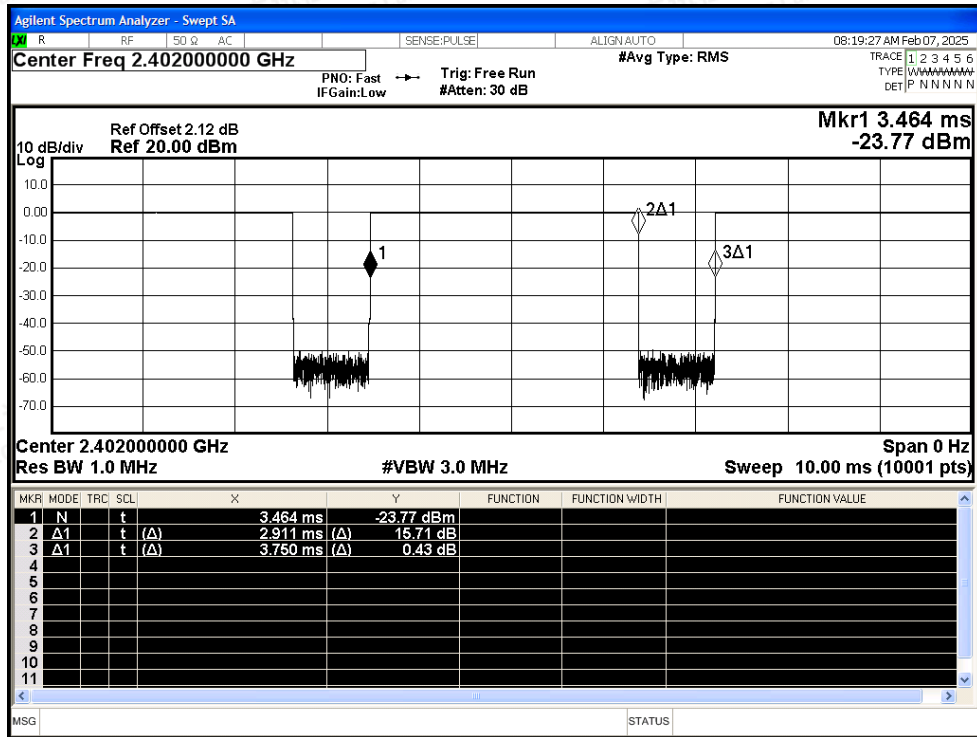




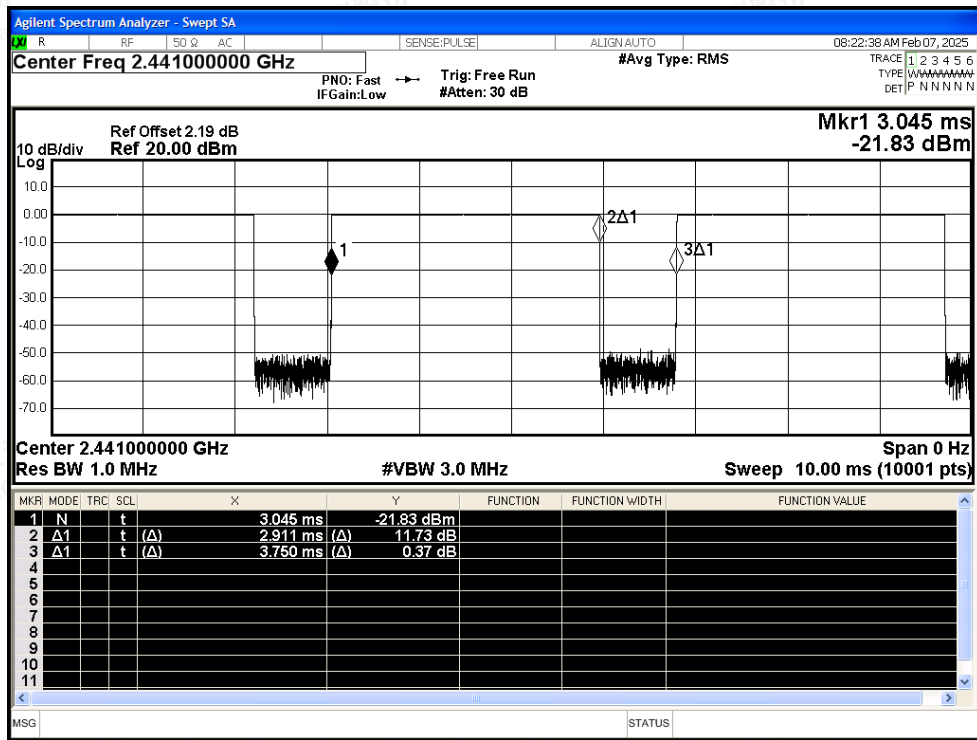


Test Graphs

Duty Cycle NVNT 1-DH5 2402MHz Ant

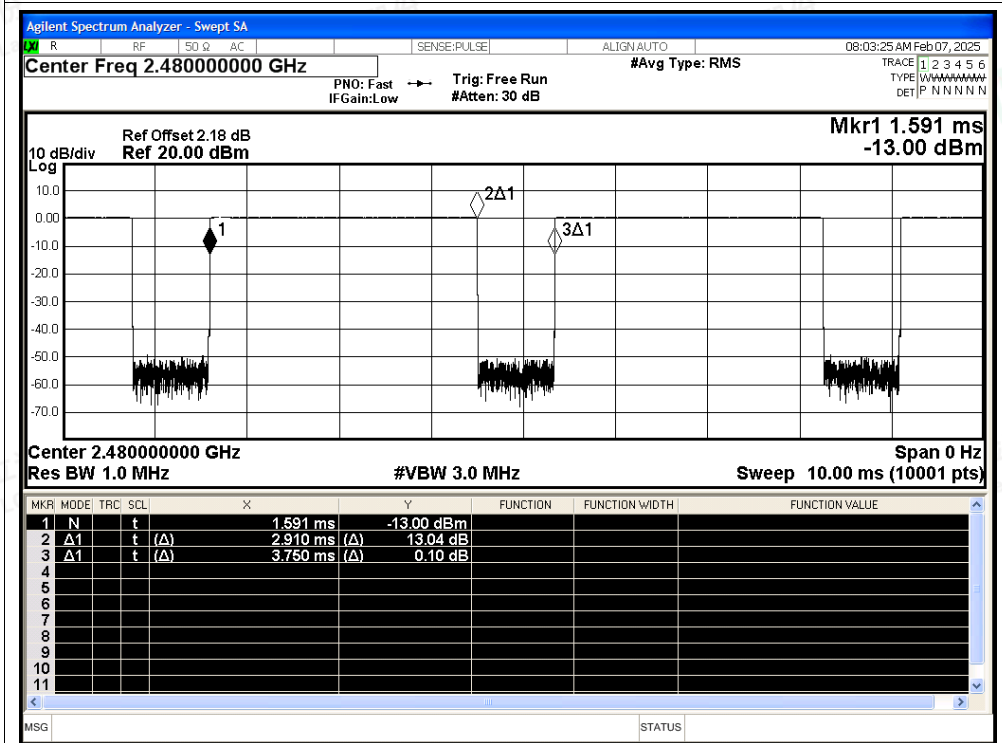


Duty Cycle NVNT 1-DH5 2441MHz Ant

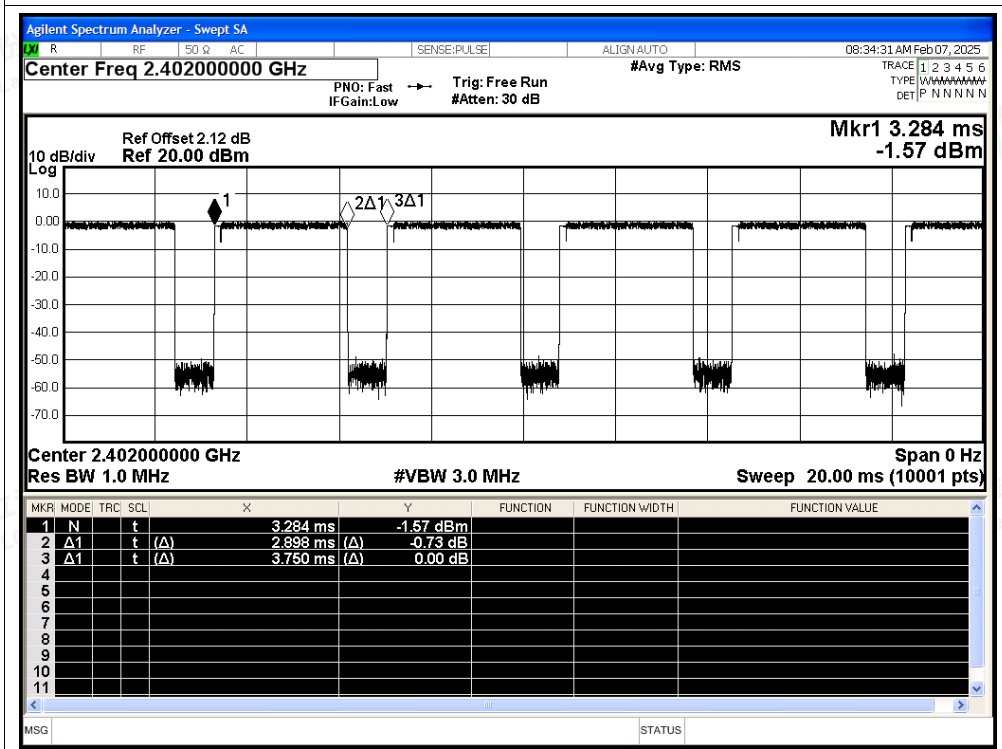




Duty Cycle NVNT 1-DH5 2480MHz Ant

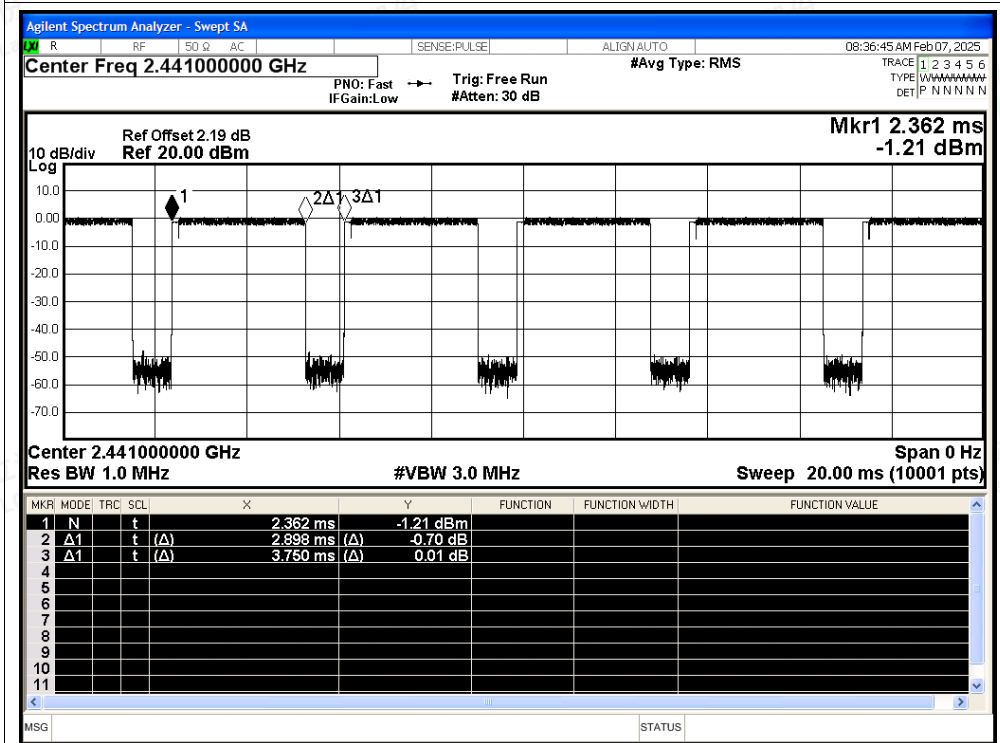


Duty Cycle NVNT 2-DH5 2402MHz Ant

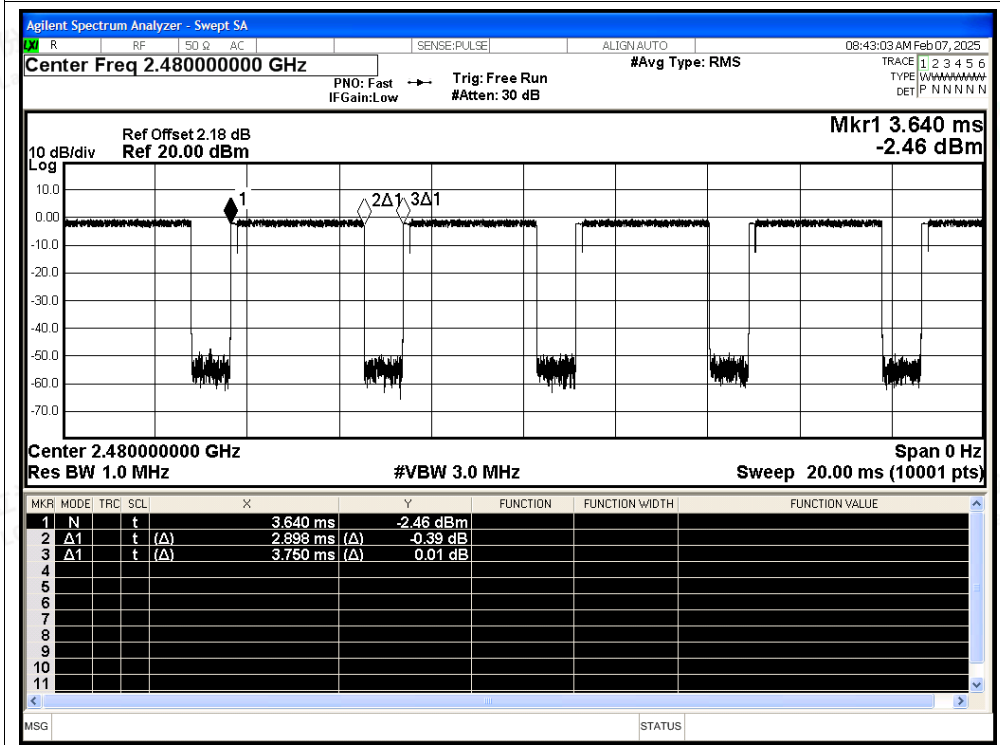




Duty Cycle NVNT 2-DH5 2441MHz Ant

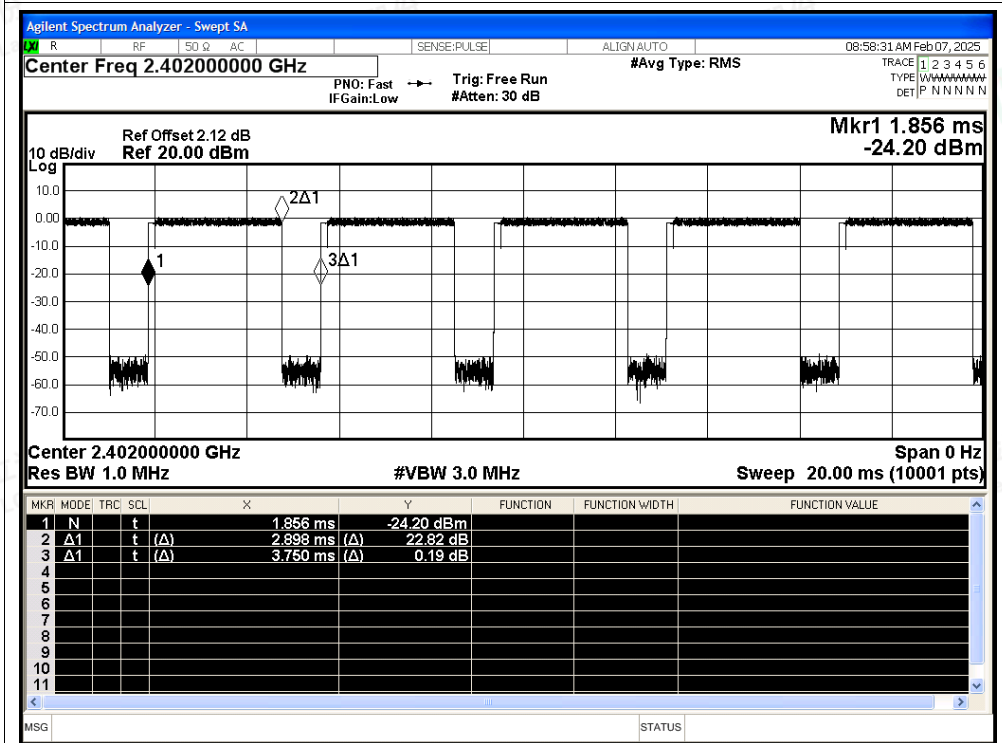


Duty Cycle NVNT 2-DH5 2480MHz Ant

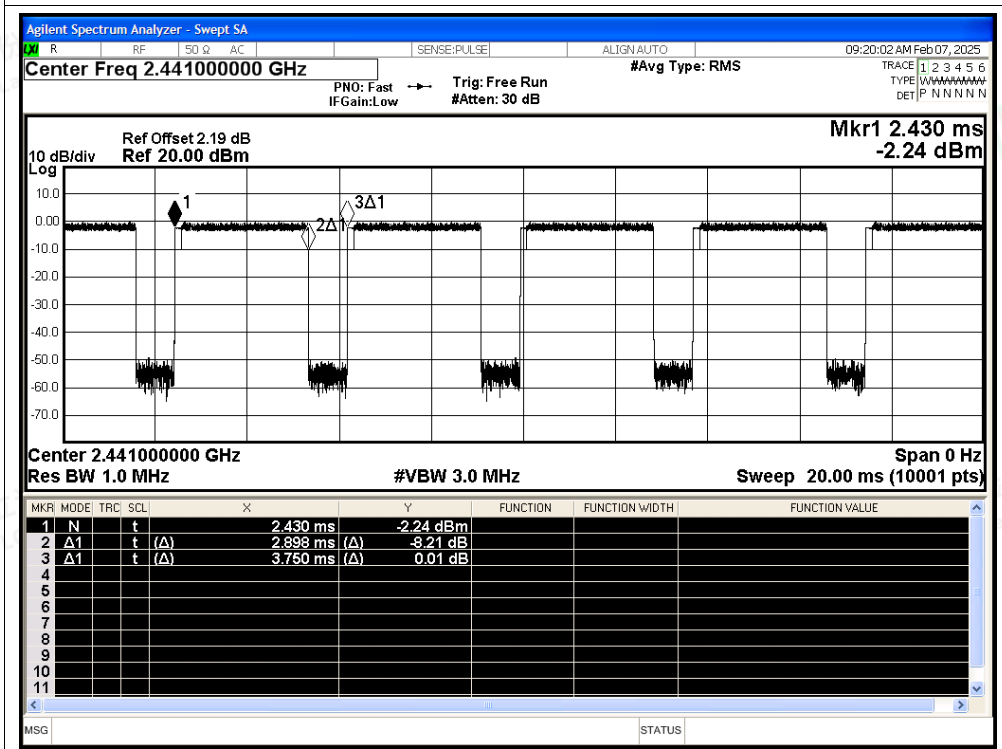


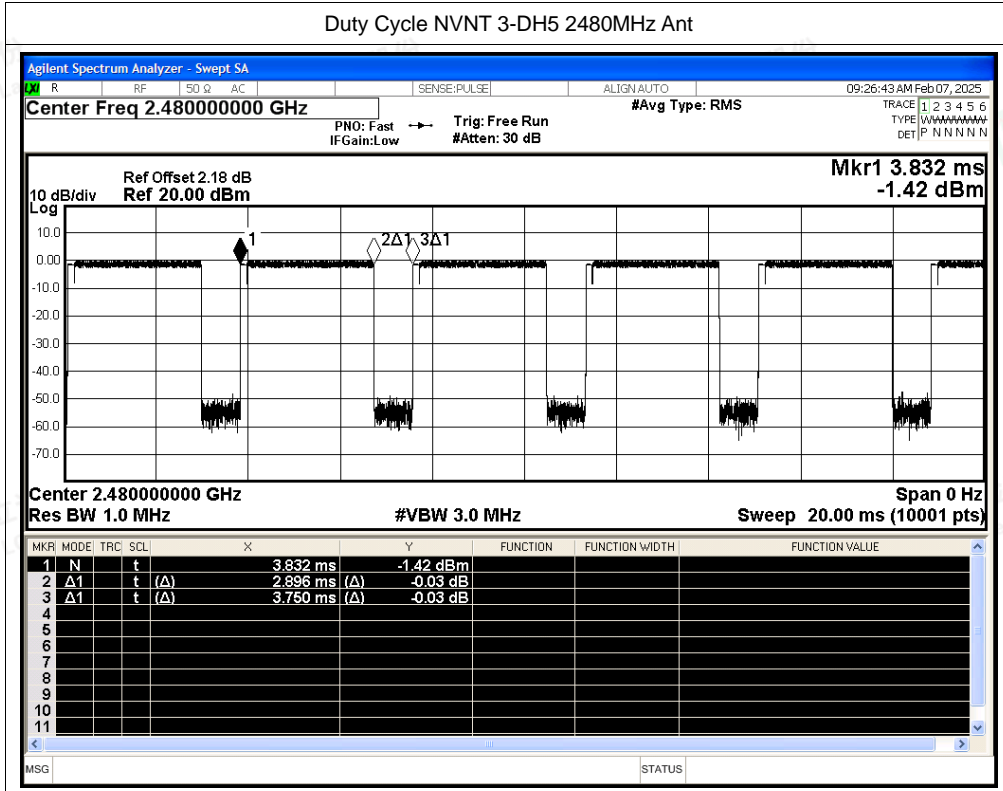


Duty Cycle NVNT 3-DH5 2402MHz Ant



Duty Cycle NVNT 3-DH5 2441MHz Ant







### A.9 Restrict Band

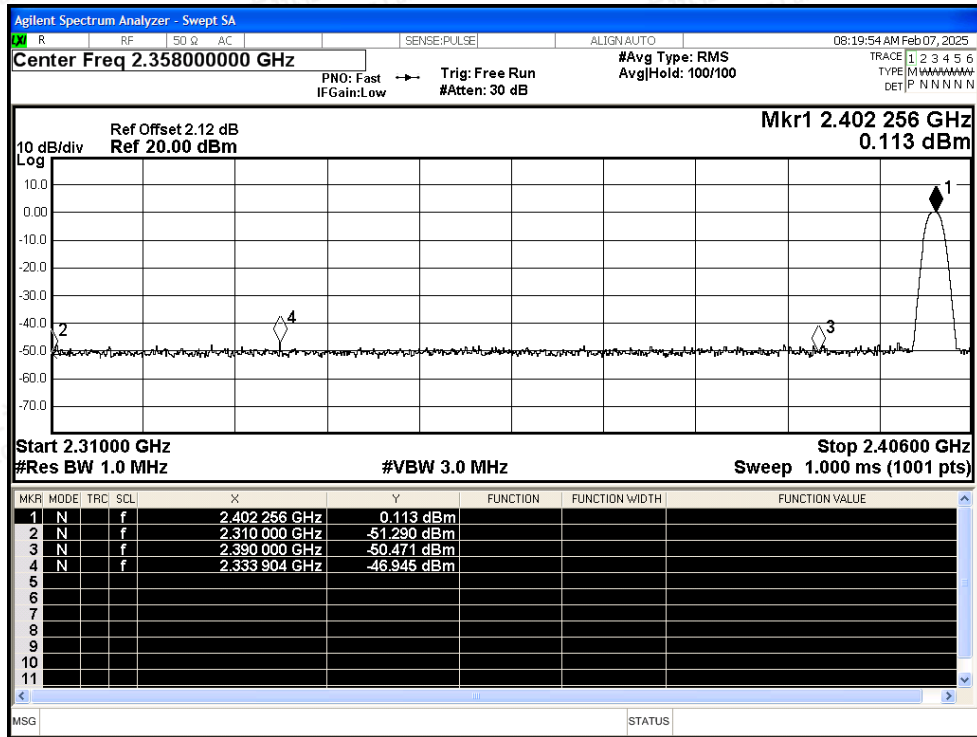
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH5	2402	Ant	No-Hopping	2310	-51.29	2	-	45.97	Peak	74	Pass
NVNT	1-DH5	2402	Ant	No-Hopping	2310	-58.32	2	1.1	40.04	Average	54	Pass
NVNT	1-DH5	2402	Ant	No-Hopping	2333.904	-46.95	2	-	50.31	Peak	74	Pass
NVNT	1-DH5	2402	Ant	No-Hopping	2389.872	-57.65	2	1.1	40.71	Average	54	Pass
NVNT	1-DH5	2402	Ant	No-Hopping	2390	-50.47	2	-	46.79	Peak	74	Pass
NVNT	1-DH5	2402	Ant	No-Hopping	2390	-58.28	2	1.1	40.08	Average	54	Pass
NVNT	1-DH5	2480	Ant	No-Hopping	2483.5	-49.59	2	-	47.67	Peak	74	Pass
NVNT	1-DH5	2480	Ant	No-Hopping	2483.5	-57.8	2	1.1	40.56	Average	54	Pass
NVNT	1-DH5	2480	Ant	No-Hopping	2485.84	-44.64	2	-	52.62	Peak	74	Pass
NVNT	1-DH5	2480	Ant	No-Hopping	2485.384	-57.11	2	1.1	41.25	Average	54	Pass
NVNT	1-DH5	2480	Ant	No-Hopping	2500	-49.62	2	-	47.64	Peak	74	Pass
NVNT	1-DH5	2480	Ant	No-Hopping	2500	-58.23	2	1.1	40.13	Average	54	Pass
NVNT	2-DH5	2402	Ant	No-Hopping	2310	-50.79	2	-	46.47	Peak	74	Pass
NVNT	2-DH5	2402	Ant	No-Hopping	2310	-58.38	2	1.12	40	Average	54	Pass
NVNT	2-DH5	2402	Ant	No-Hopping	2327.376	-47.65	2	-	49.61	Peak	74	Pass
NVNT	2-DH5	2402	Ant	No-Hopping	2384.976	-57.52	2	1.12	40.86	Average	54	Pass
NVNT	2-DH5	2402	Ant	No-Hopping	2390	-51.73	2	-	45.53	Peak	74	Pass
NVNT	2-DH5	2402	Ant	No-Hopping	2390	-58.29	2	1.12	40.09	Average	54	Pass
NVNT	2-DH5	2480	Ant	No-Hopping	2483.5	-50.45	2	-	46.81	Peak	74	Pass
NVNT	2-DH5	2480	Ant	No-Hopping	2483.5	-57.61	2	1.12	40.77	Average	54	Pass
NVNT	2-DH5	2480	Ant	No-Hopping	2484.616	-45.47	2	-	51.79	Peak	74	Pass
NVNT	2-DH5	2480	Ant	No-Hopping	2483.56	-56.93	2	1.12	41.45	Average	54	Pass
NVNT	2-DH5	2480	Ant	No-Hopping	2500	-50.52	2	-	46.74	Peak	74	Pass
NVNT	2-DH5	2480	Ant	No-Hopping	2500	-58.19	2	1.12	40.19	Average	54	Pass
NVNT	3-DH5	2402	Ant	No-Hopping	2310	-49.37	2	-	47.89	Peak	74	Pass
NVNT	3-DH5	2402	Ant	No-Hopping	2310	-58.67	2	0.12	38.71	Average	54	Pass
NVNT	3-DH5	2402	Ant	No-Hopping	2338.896	-47.92	2	-	49.34	Peak	74	Pass
NVNT	3-DH5	2402	Ant	No-Hopping	2372.304	-57.74	2	0.12	39.64	Average	54	Pass
NVNT	3-DH5	2402	Ant	No-Hopping	2390	-49.48	2	-	47.78	Peak	74	Pass
NVNT	3-DH5	2402	Ant	No-Hopping	2390	-57.92	2	0.12	39.46	Average	54	Pass
NVNT	3-DH5	2480	Ant	No-Hopping	2483.5	-47.98	2	-	49.28	Peak	74	Pass
NVNT	3-DH5	2480	Ant	No-Hopping	2483.5	-57.09	2	0.12	40.29	Average	54	Pass
NVNT	3-DH5	2480	Ant	No-Hopping	2483.632	-45.71	2	-	51.55	Peak	74	Pass
NVNT	3-DH5	2480	Ant	No-Hopping	2483.608	-56.4	2	0.12	40.98	Average	54	Pass
NVNT	3-DH5	2480	Ant	No-Hopping	2500	-51.13	2	-	46.13	Peak	74	Pass
NVNT	3-DH5	2480	Ant	No-Hopping	2500	-57.74	2	0.12	39.64	Average	54	Pass



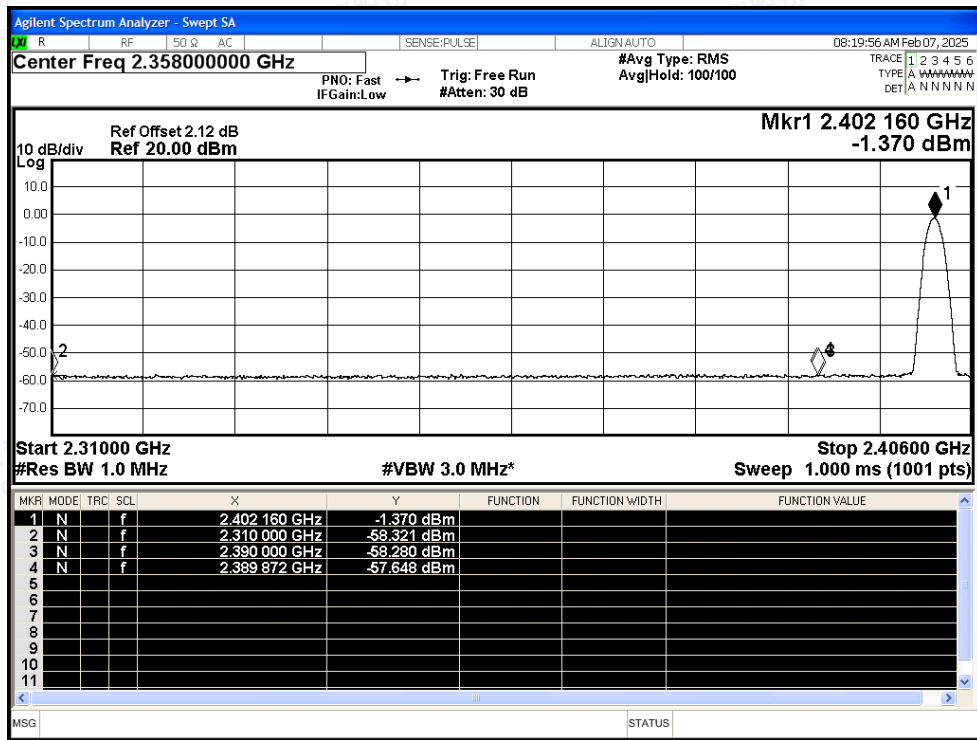


Test Graphs

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

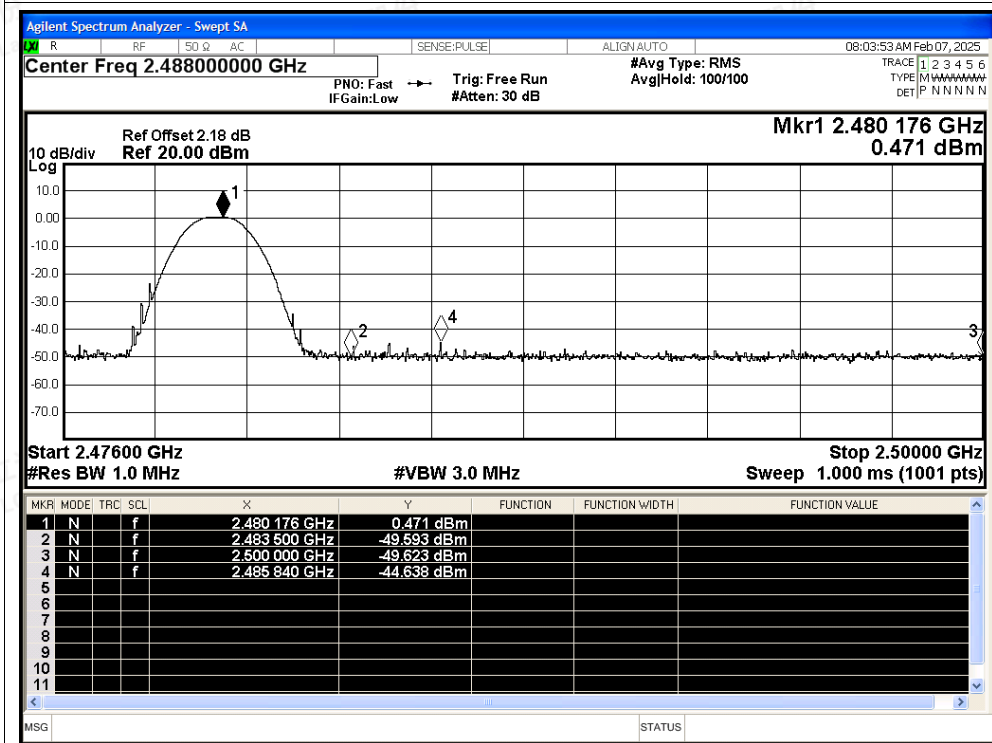


Restrict Band NVNT 1-DH5 2402MHz Ant No-Hopping Average

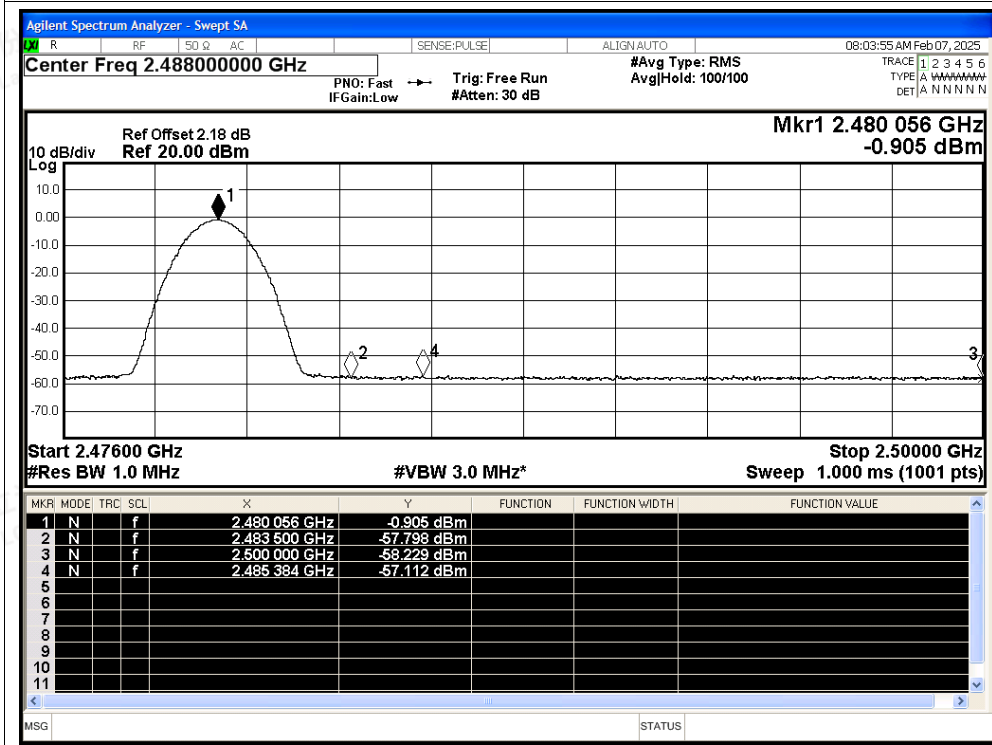




Restrict Band NVNT 1-DH5 2480MHz Ant No-Hopping Peak



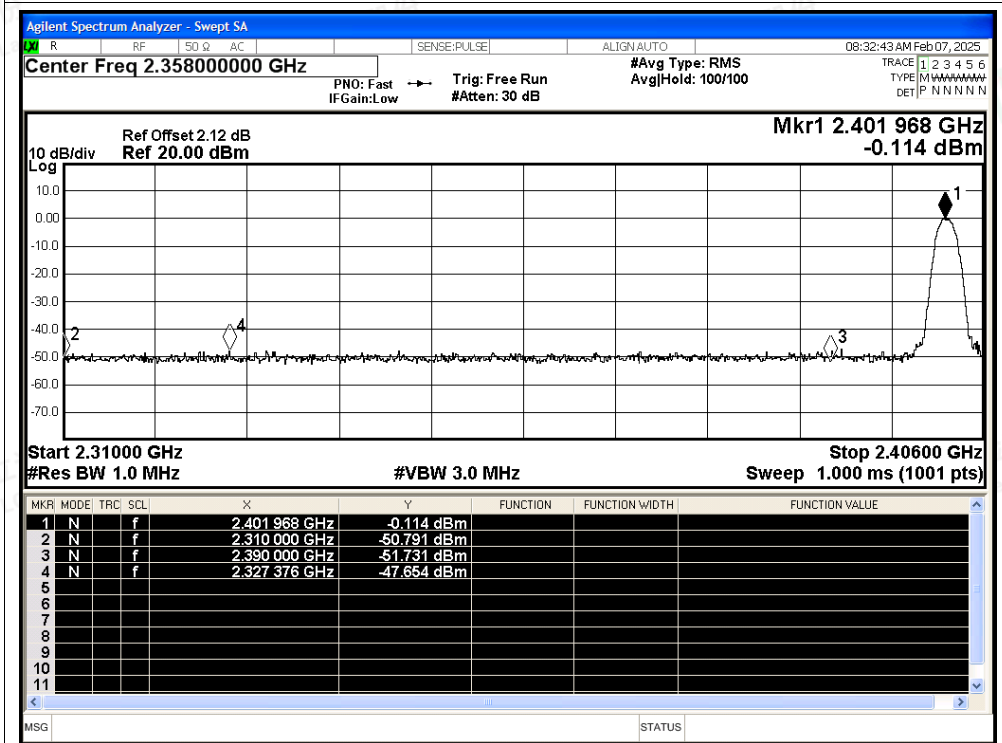
Restrict Band NVNT 1-DH5 2480MHz Ant No-Hopping Average



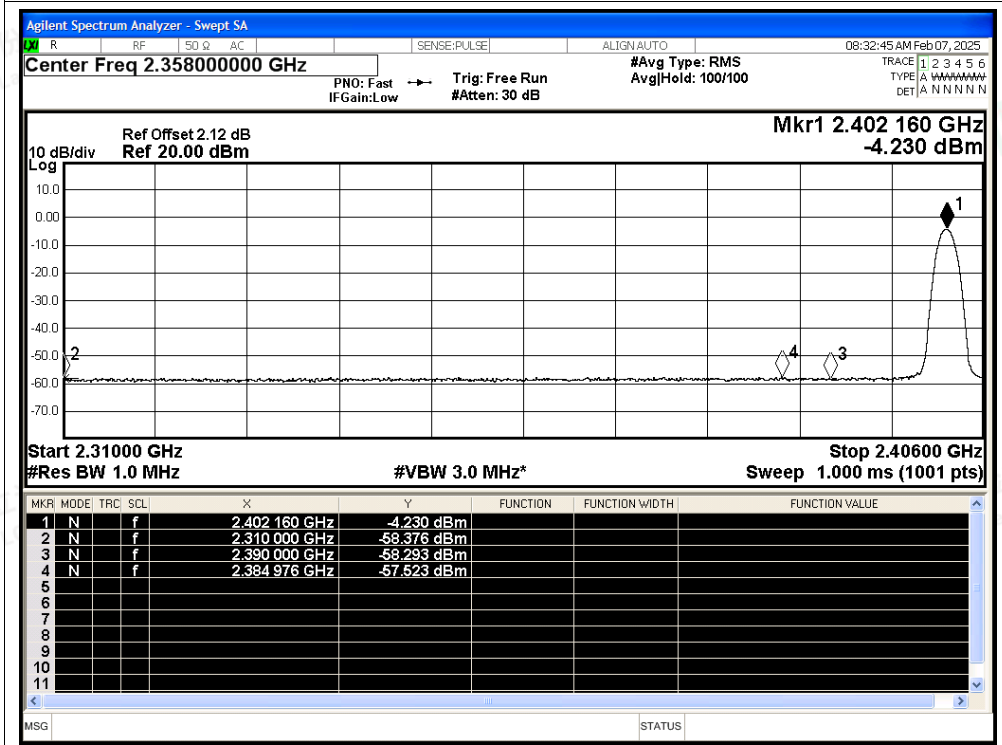




Restrict Band NVNT 2-DH5 2402MHz Ant No-Hopping Peak

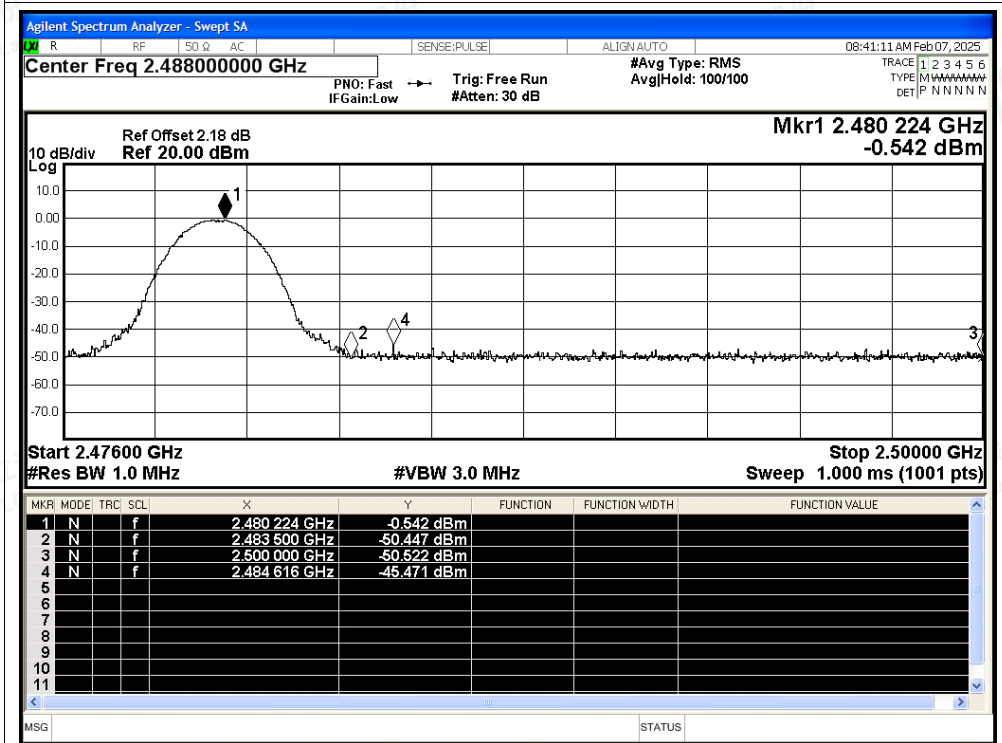


Restrict Band NVNT 2-DH5 2402MHz Ant No-Hopping Average

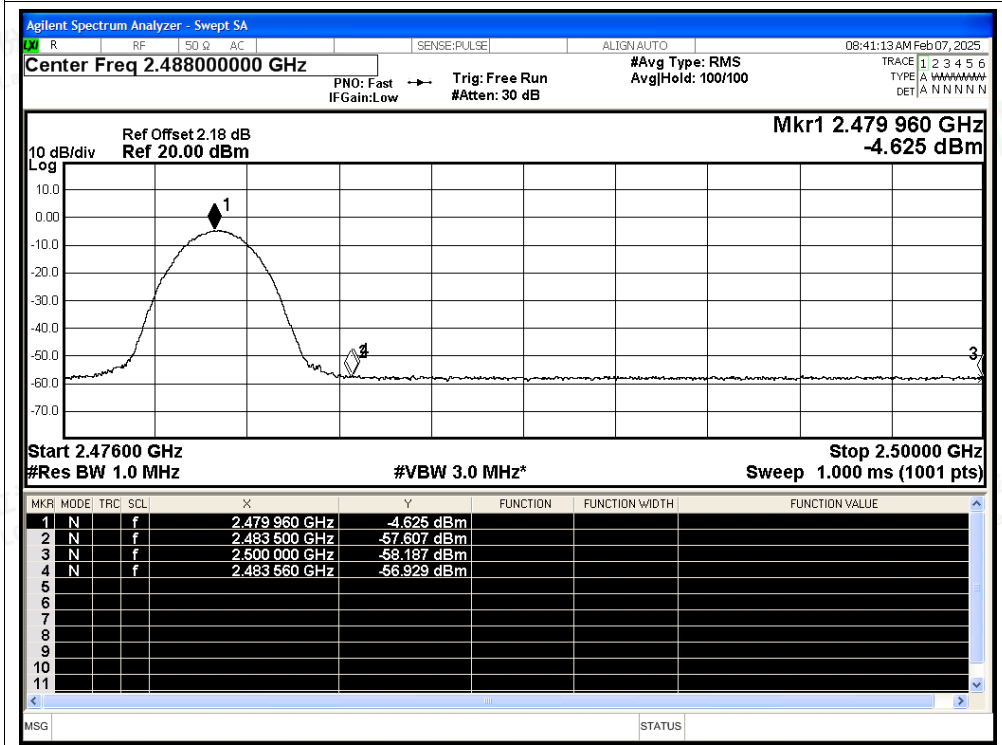




Restrict Band NVNT 2-DH5 2480MHz Ant No-Hopping Peak

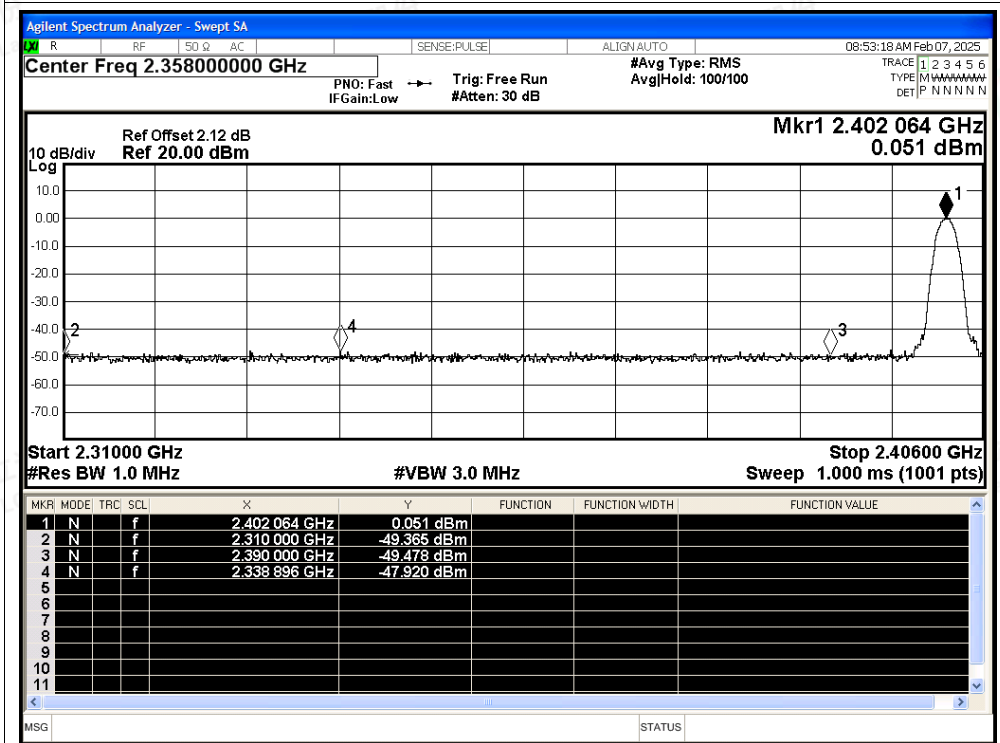


Restrict Band NVNT 2-DH5 2480MHz Ant No-Hopping Average

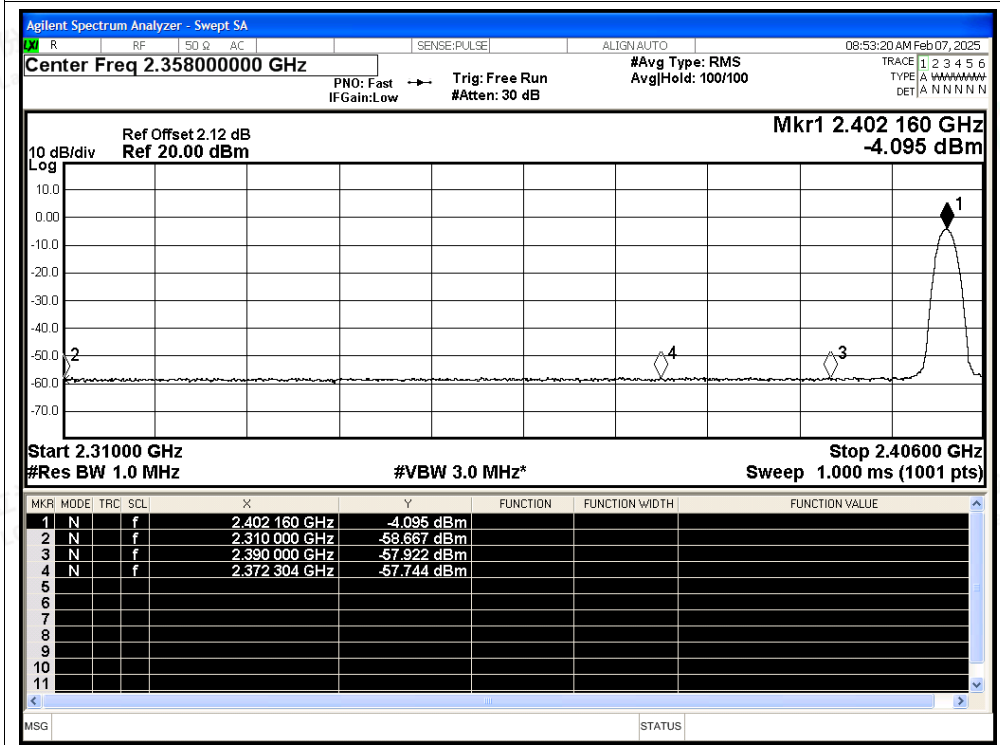




Restrict Band NVNT 3-DH5 2402MHz Ant No-Hopping Peak

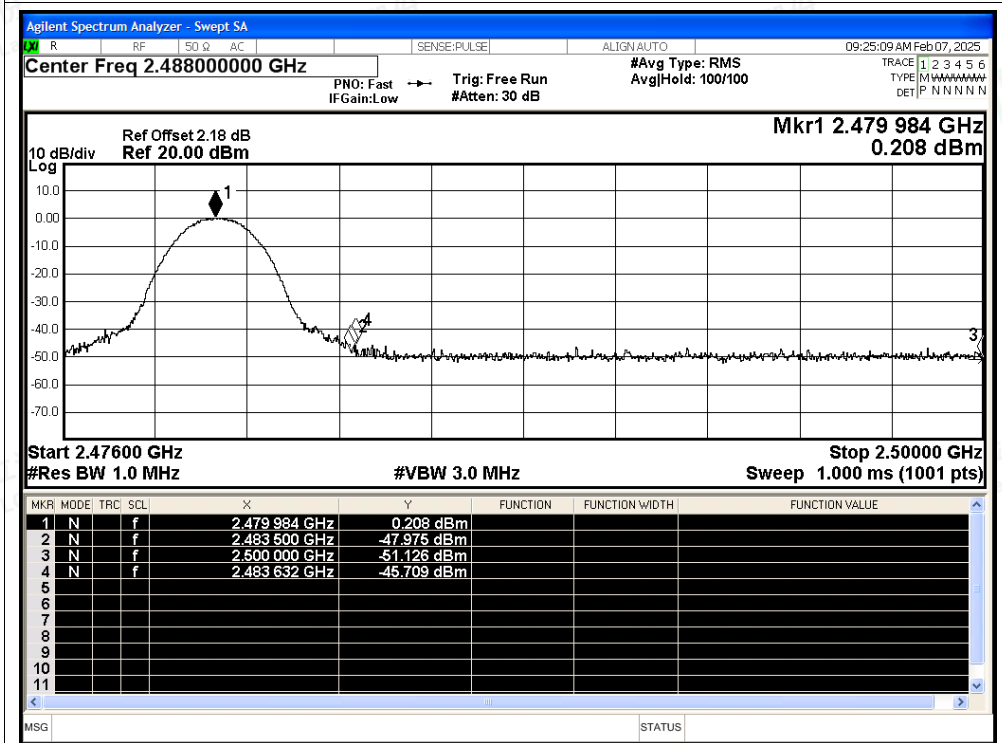


Restrict Band NVNT 3-DH5 2402MHz Ant No-Hopping Average





Restrict Band NVNT 3-DH5 2480MHz Ant No-Hopping Peak



Restrict Band NVNT 3-DH5 2480MHz Ant No-Hopping Average

