



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Lokies B

Test Model: ASS54218_4G_CAT1

Environmental Conditions

Temperature:	23.5°C
Relative Humidity:	54.8%
ATM Pressure:	100.0 kPa
Test Engineer:	Jerry Chu
Supervised by:	Can Kun

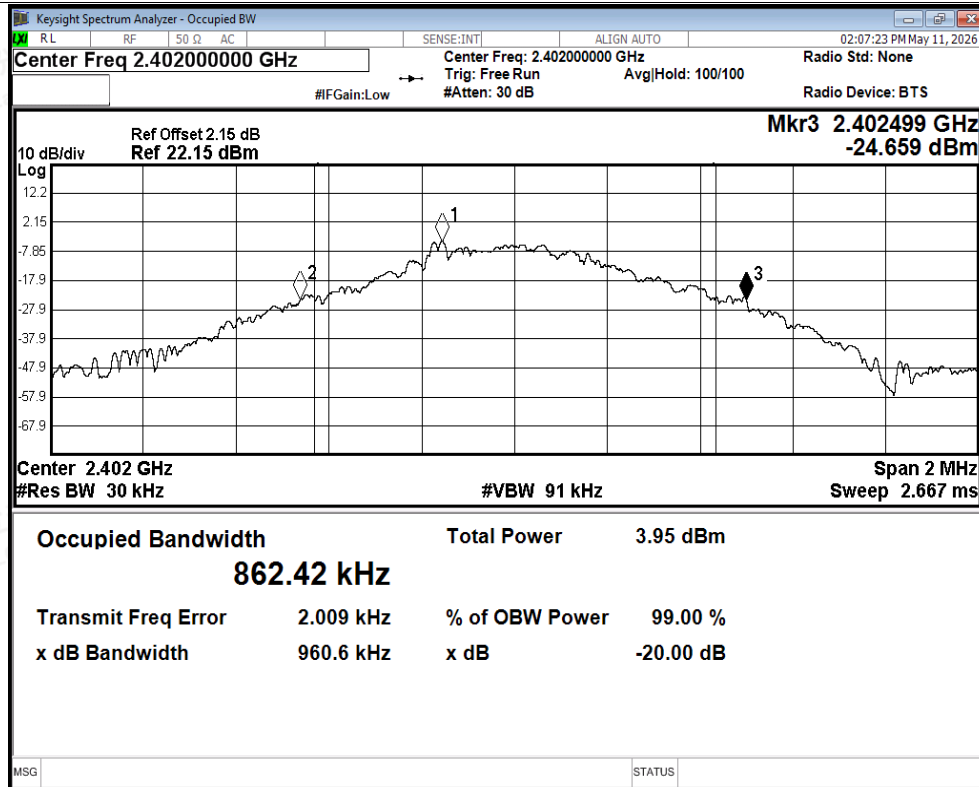




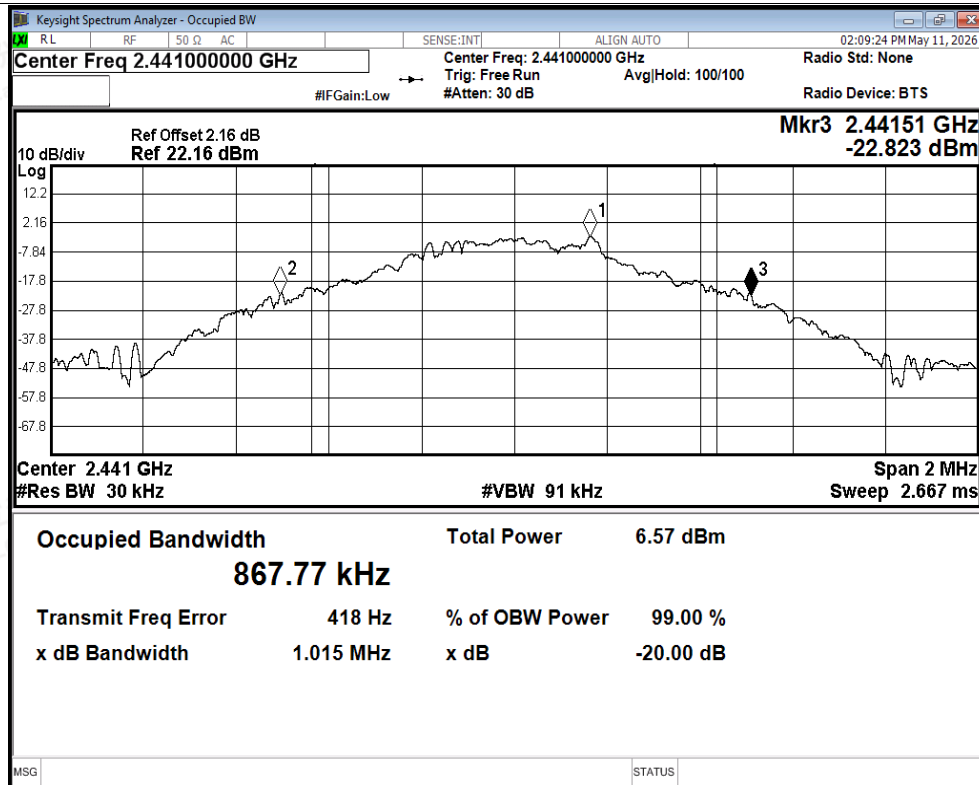
A.1 -20dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	0.9606	No Limited	Pass
NVNT	1-DH5	2441	Ant1	1.015	No Limited	Pass
NVNT	1-DH5	2480	Ant1	0.9552	No Limited	Pass
NVNT	2-DH5	2402	Ant1	1.283	No Limited	Pass
NVNT	2-DH5	2441	Ant1	1.281	No Limited	Pass
NVNT	2-DH5	2480	Ant1	1.303	No Limited	Pass
NVNT	3-DH5	2402	Ant1	1.307	No Limited	Pass
NVNT	3-DH5	2441	Ant1	1.295	No Limited	Pass
NVNT	3-DH5	2480	Ant1	1.299	No Limited	Pass



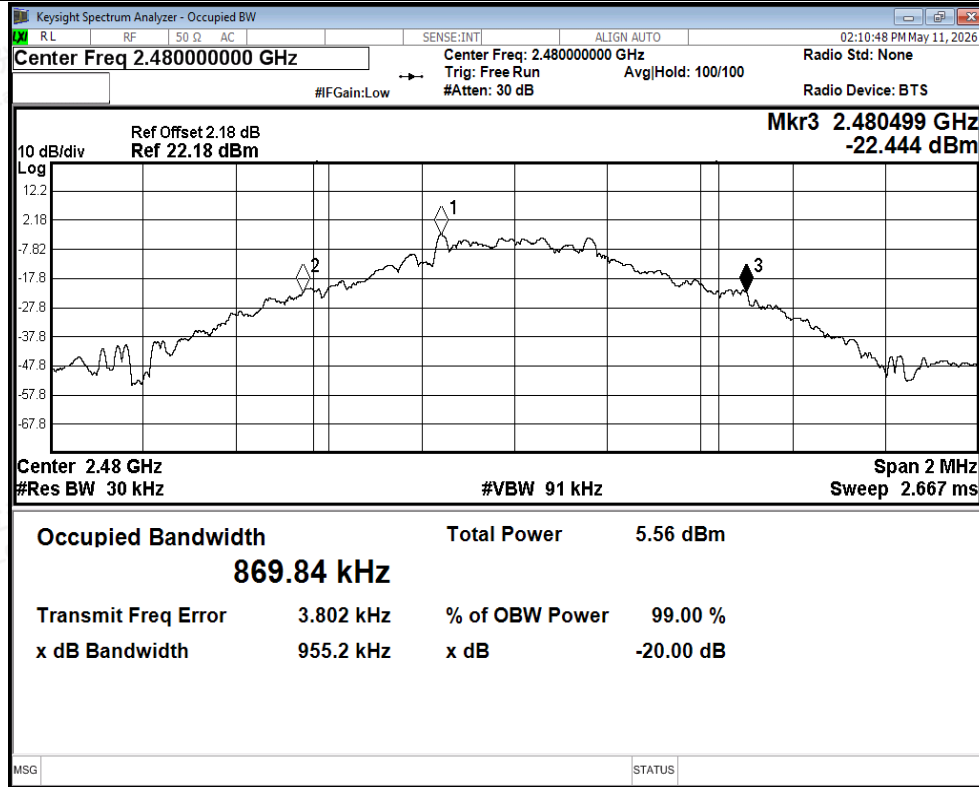


-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1

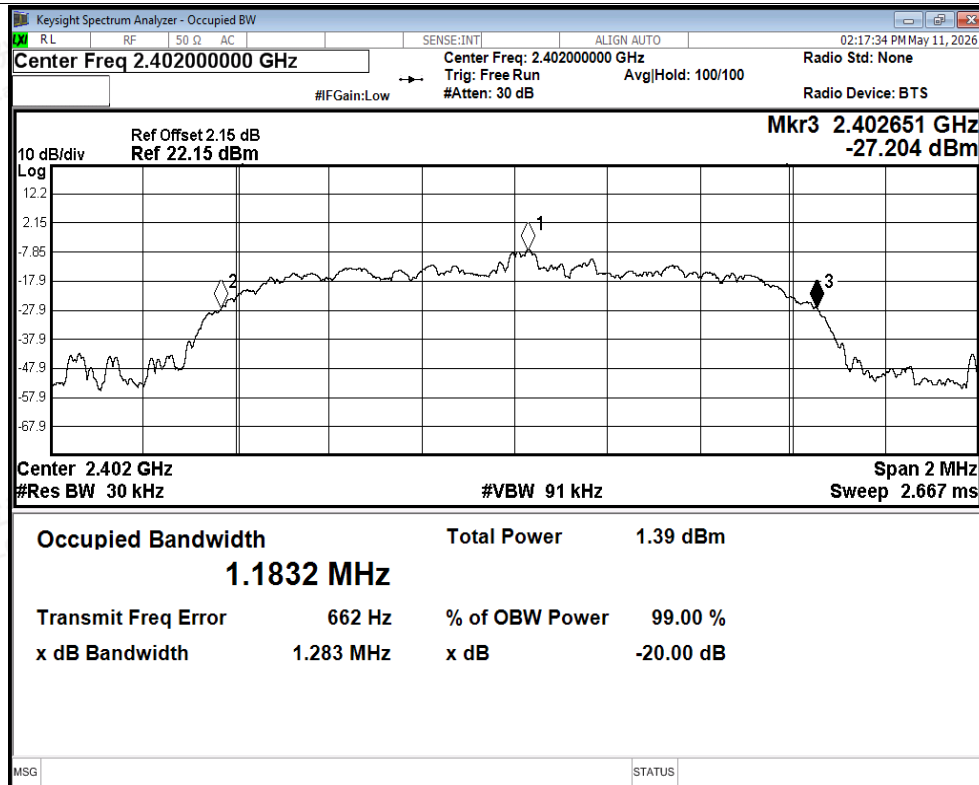


-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1



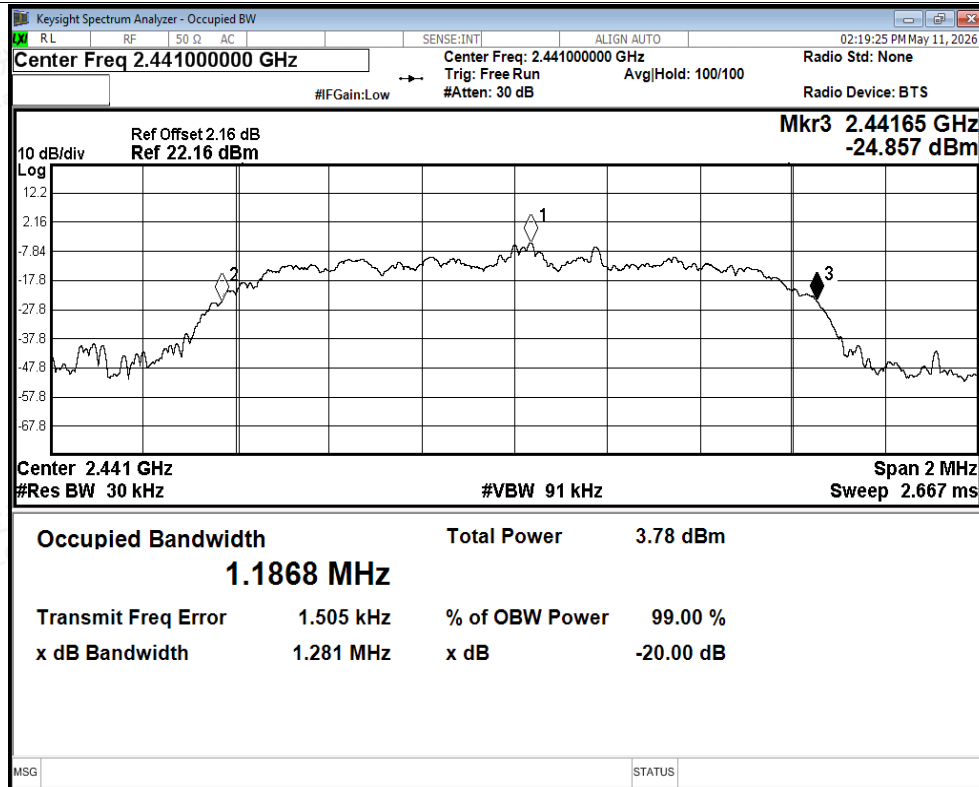


-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1

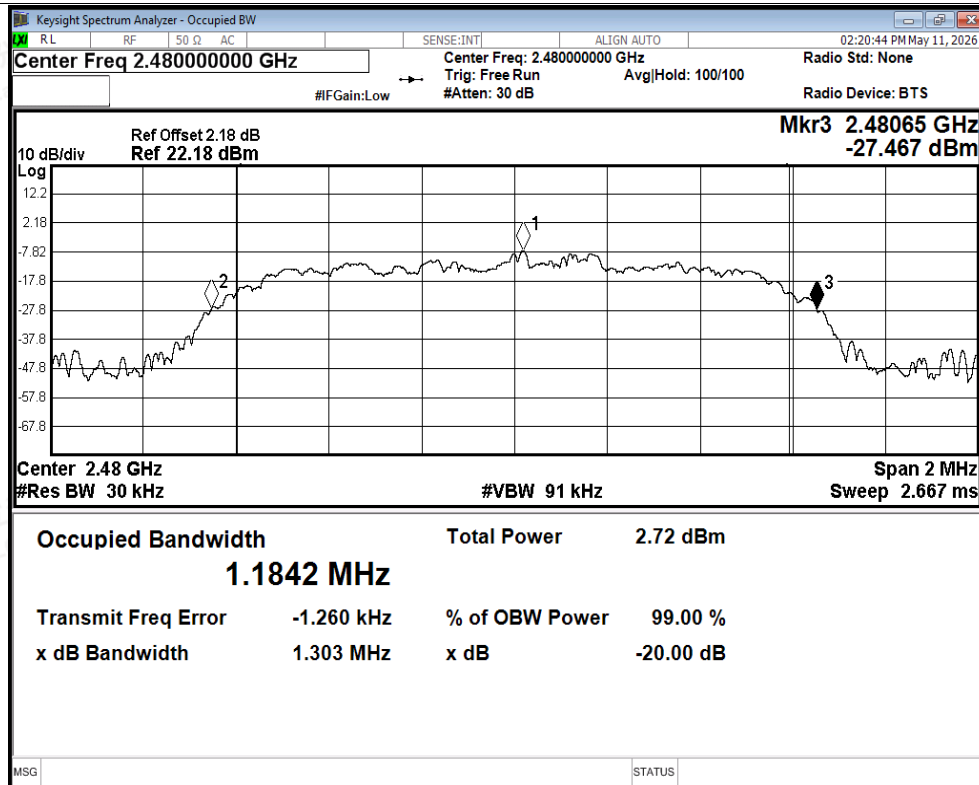


-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1



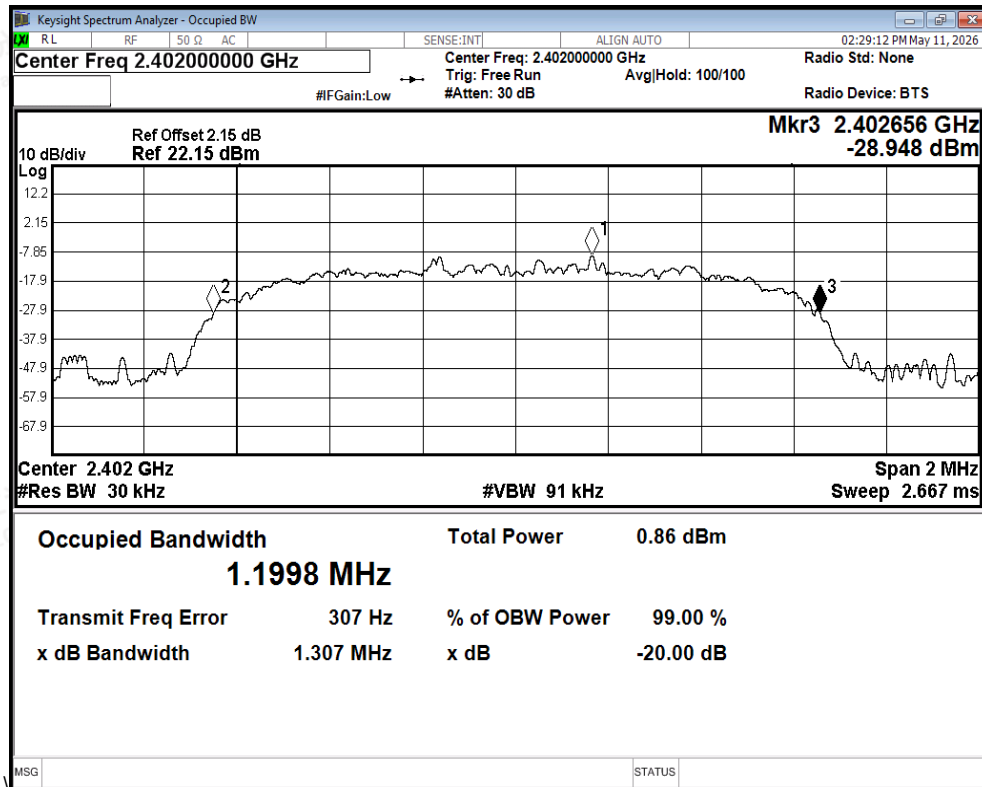


-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1

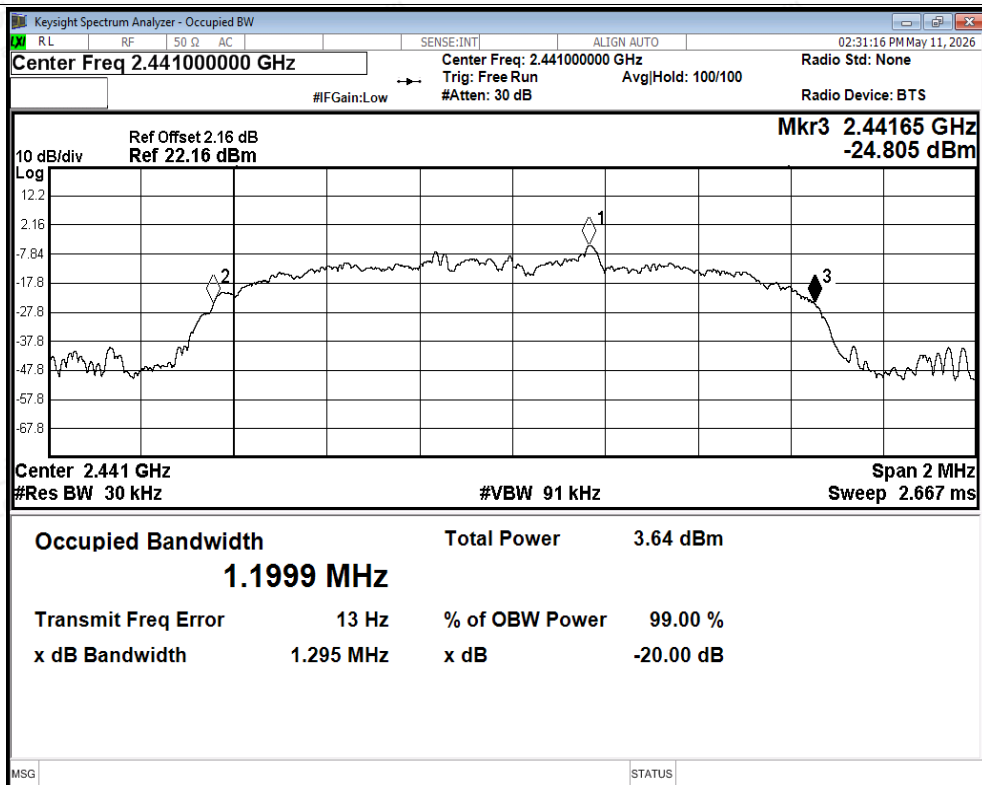


-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1



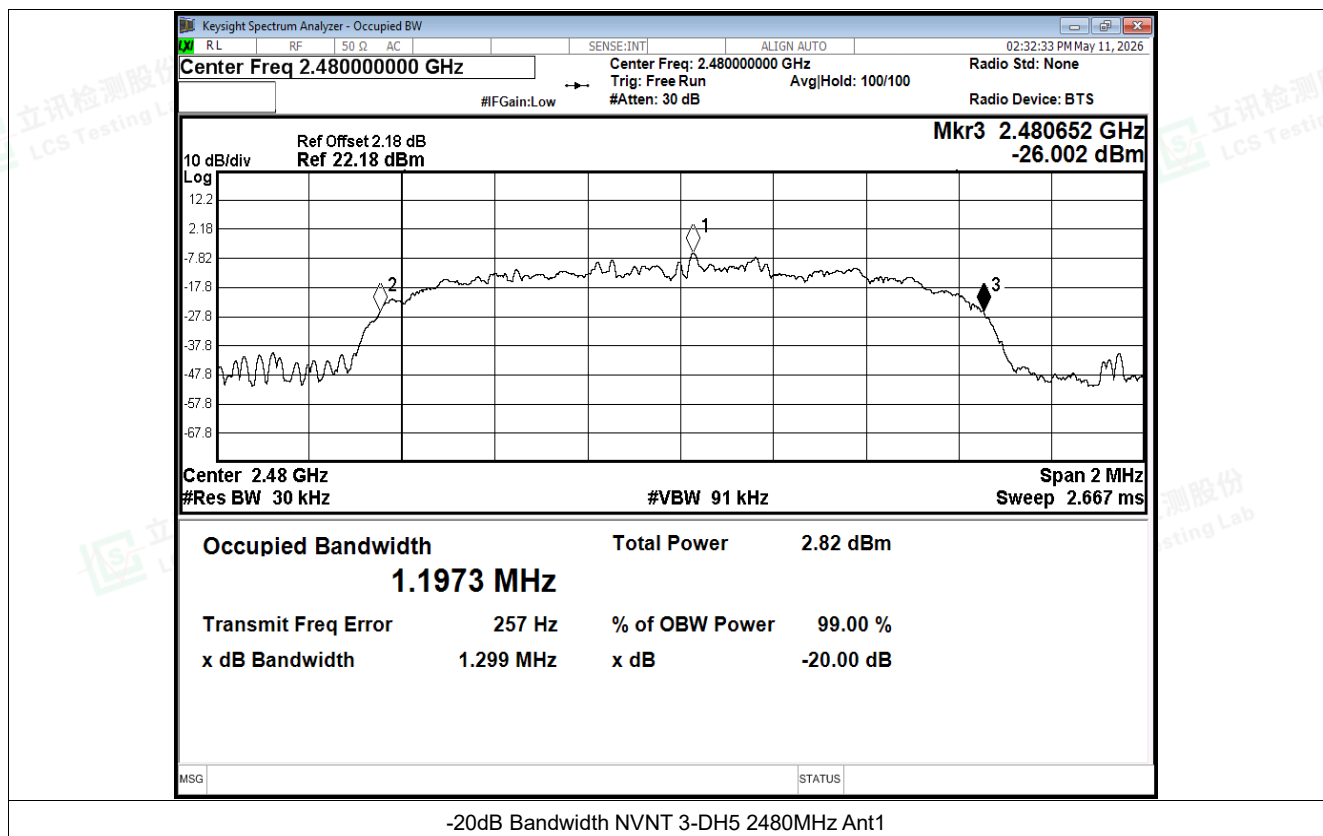


-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1



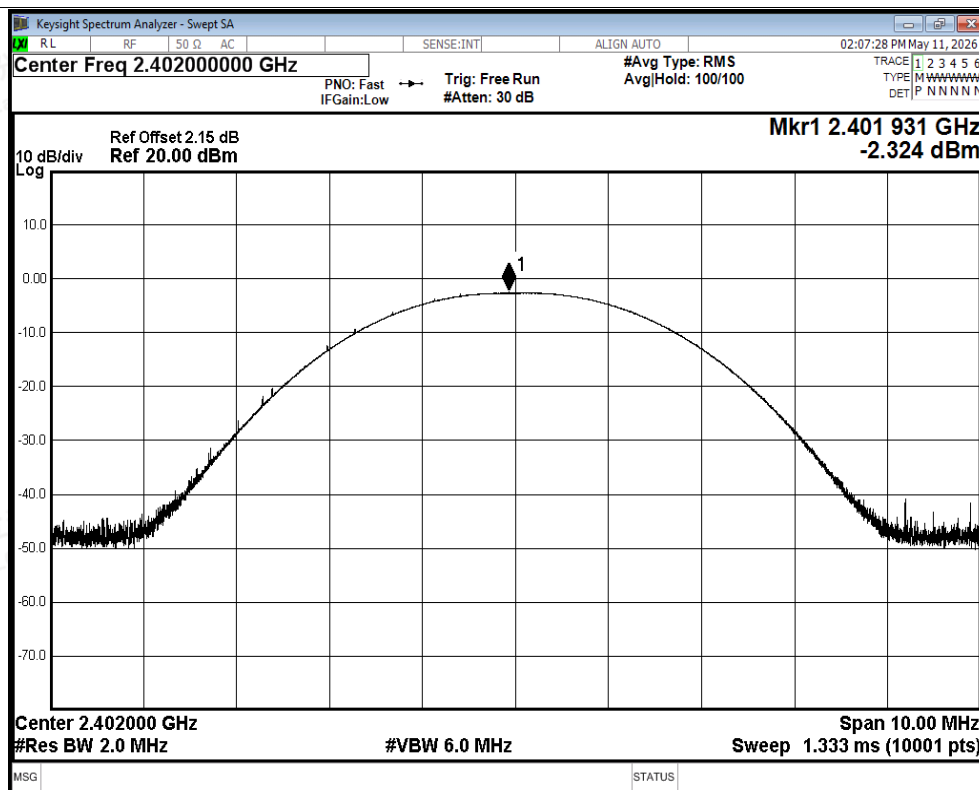




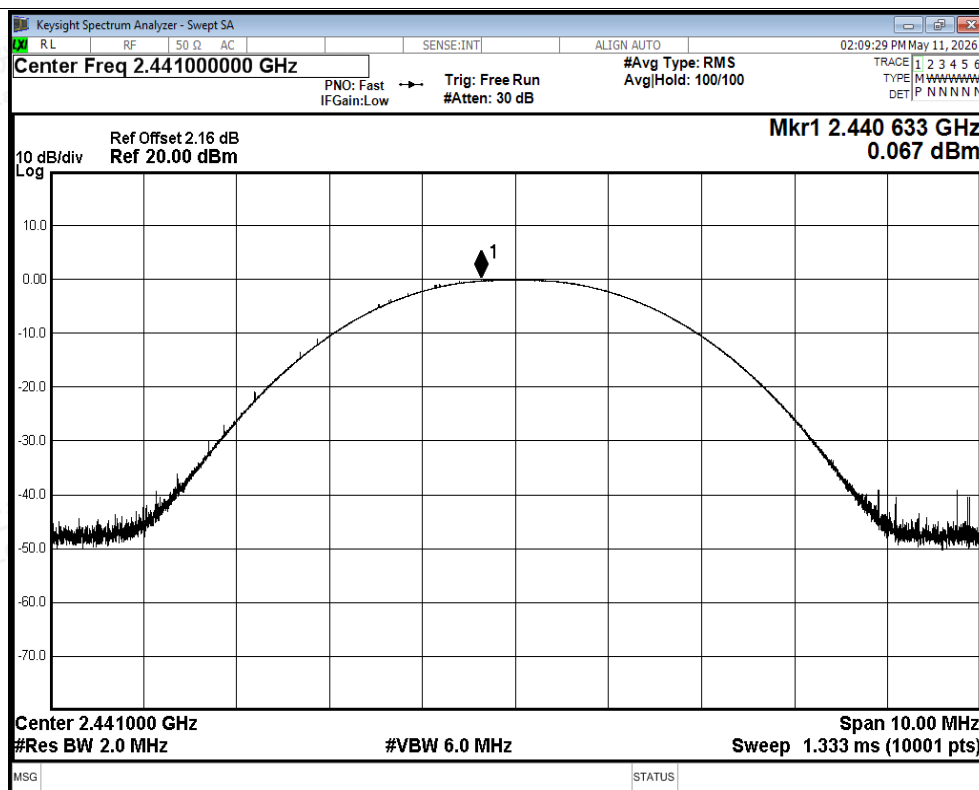
A.2 Maximum Peak Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit Conducted(dBm)	Verdict
NVNT	1-DH5	2402	Ant1	-2.32	30	Pass
NVNT	1-DH5	2441	Ant1	0.07	30	Pass
NVNT	1-DH5	2480	Ant1	-0.82	30	Pass
NVNT	2-DH5	2402	Ant1	-2.97	30	Pass
NVNT	2-DH5	2441	Ant1	-0.43	30	Pass
NVNT	2-DH5	2480	Ant1	-1.44	30	Pass
NVNT	3-DH5	2402	Ant1	-2.47	30	Pass
NVNT	3-DH5	2441	Ant1	0	30	Pass
NVNT	3-DH5	2480	Ant1	-1.06	30	Pass



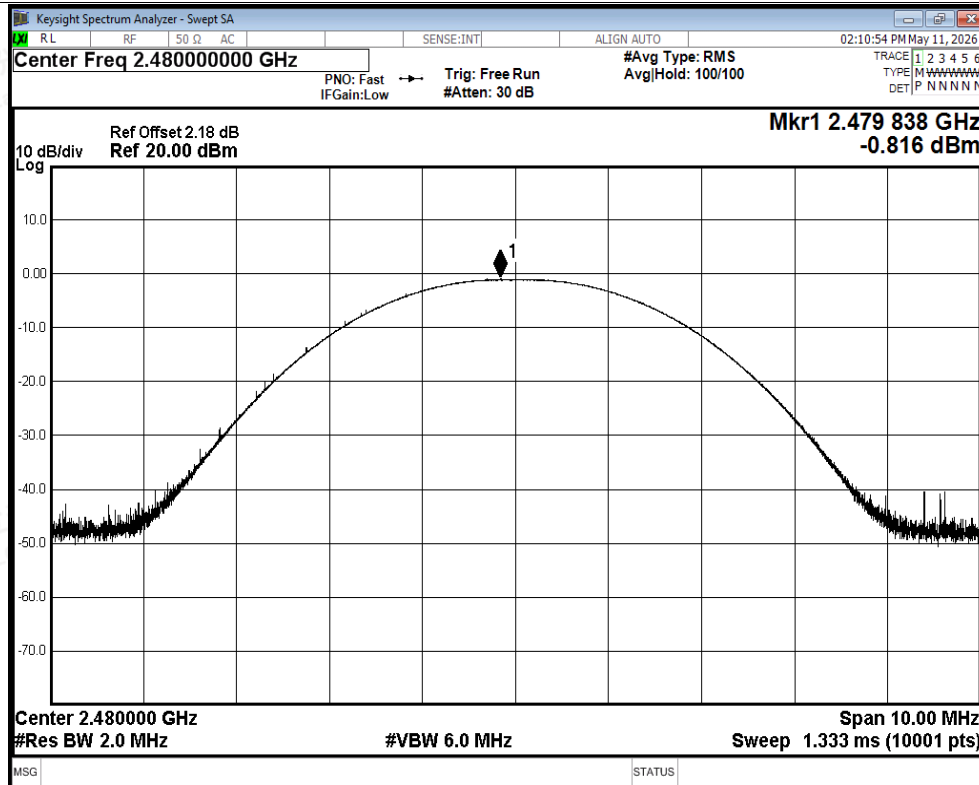


Peak Power NVNT 1-DH5 2402MHz Ant1

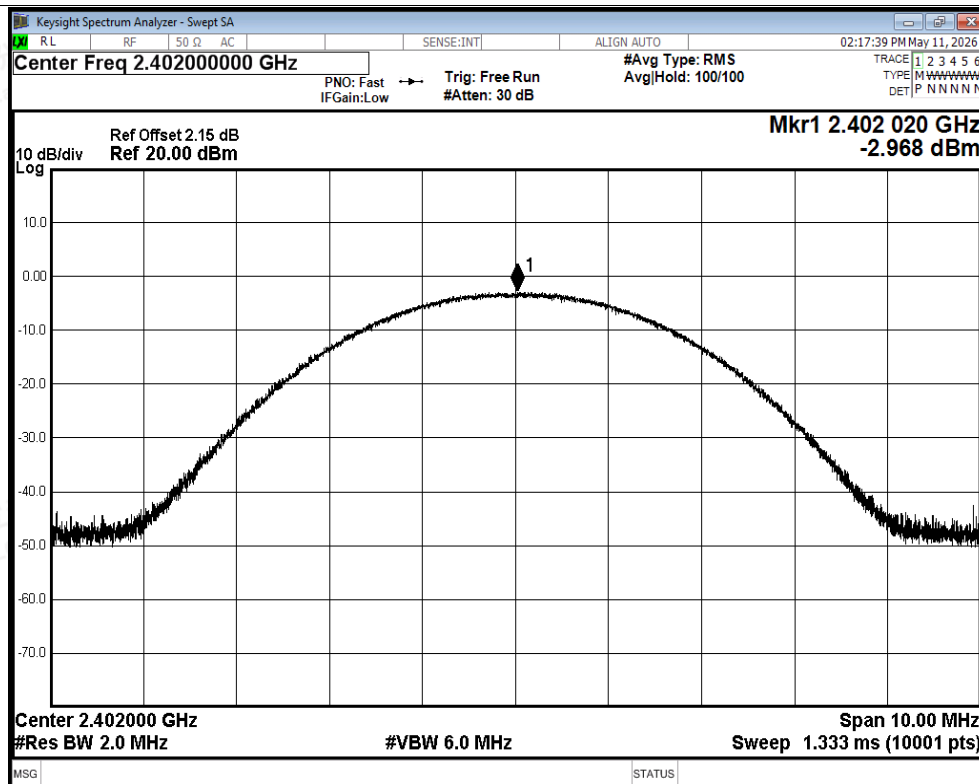


Peak Power NVNT 1-DH5 2441MHz Ant1



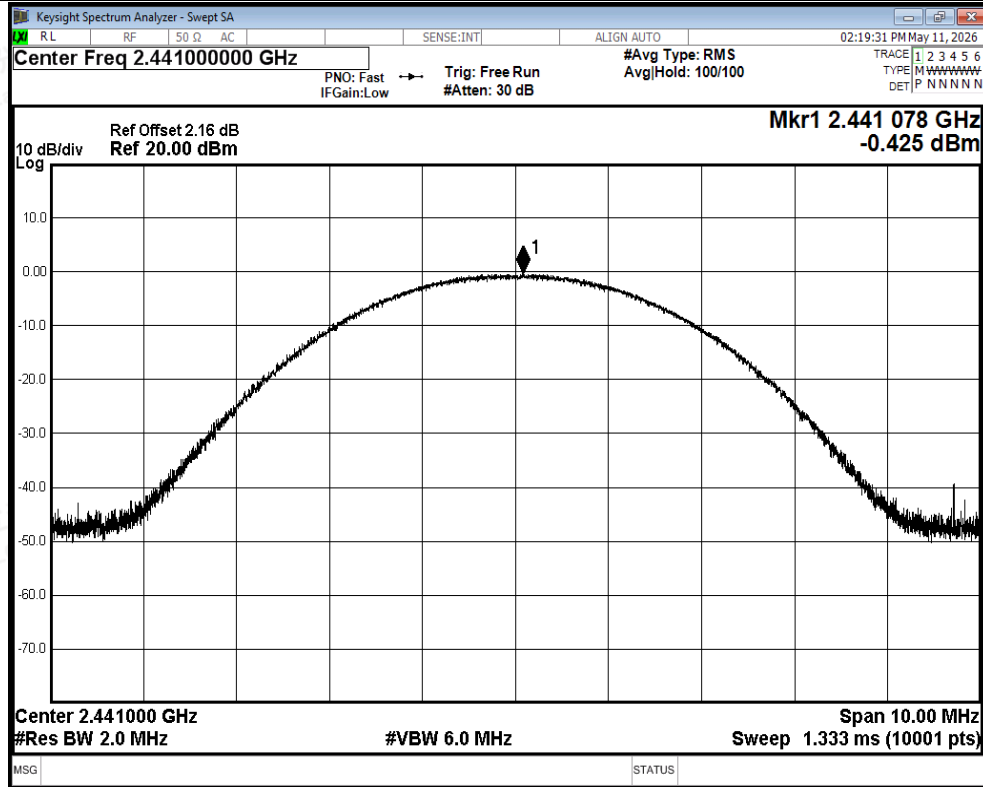


Peak Power NVNT 1-DH5 2480MHz Ant1

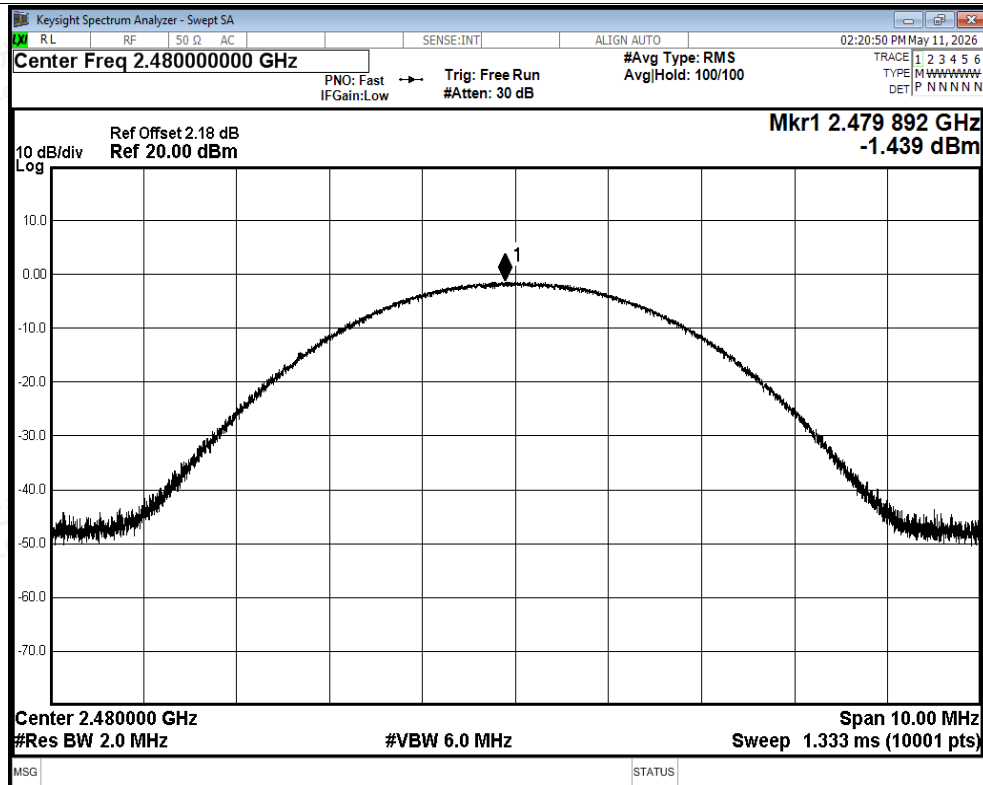


Peak Power NVNT 2-DH5 2402MHz Ant1



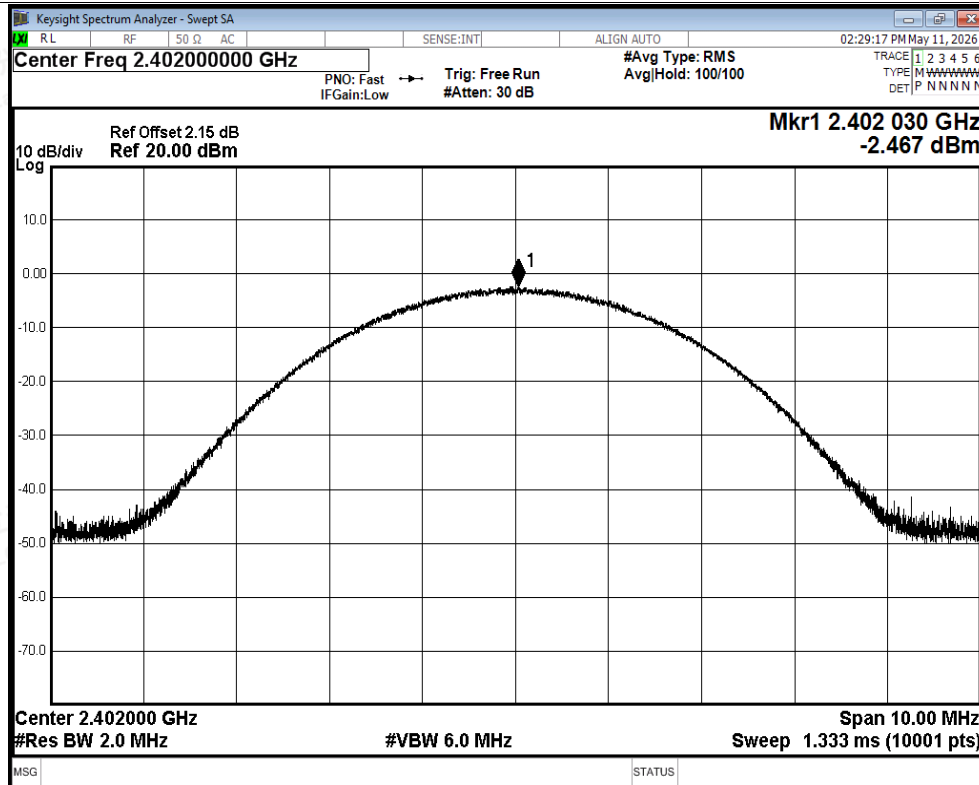


Peak Power NVNT 2-DH5 2441MHz Ant1

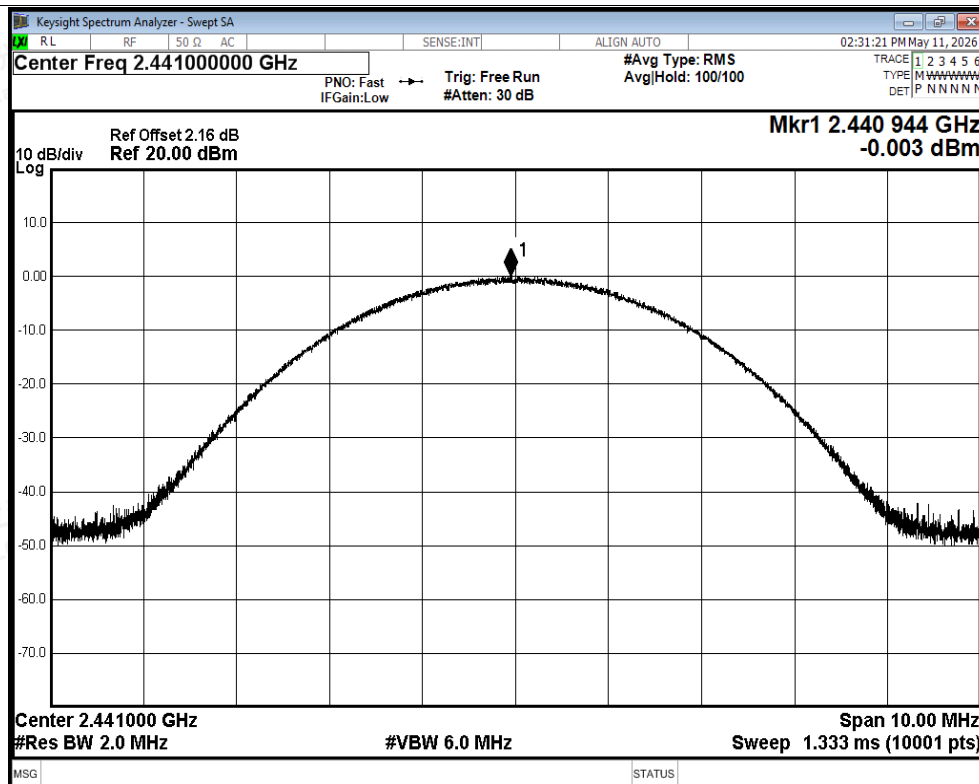


Peak Power NVNT 2-DH5 2480MHz Ant1



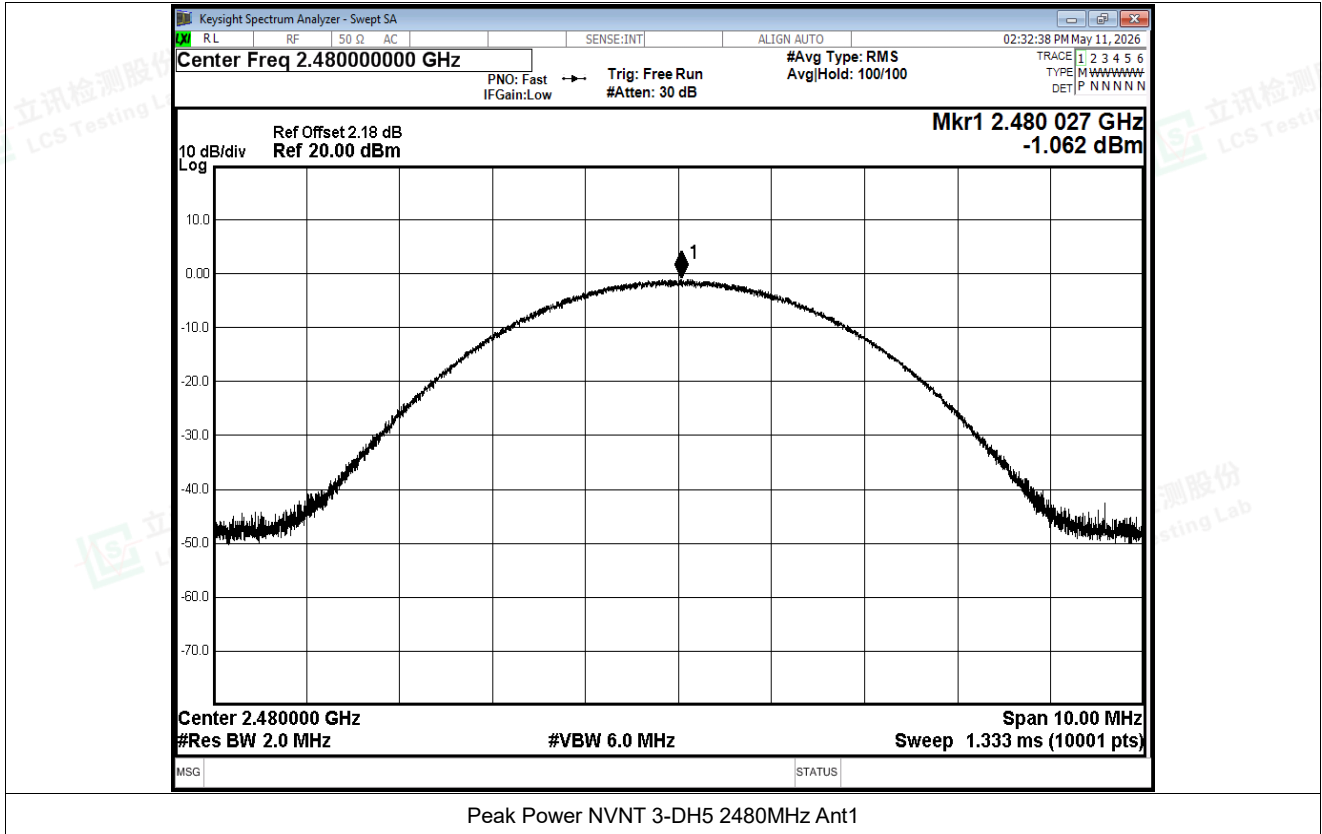


Peak Power NVNT 3-DH5 2402MHz Ant1



Peak Power NVNT 3-DH5 2441MHz Ant1



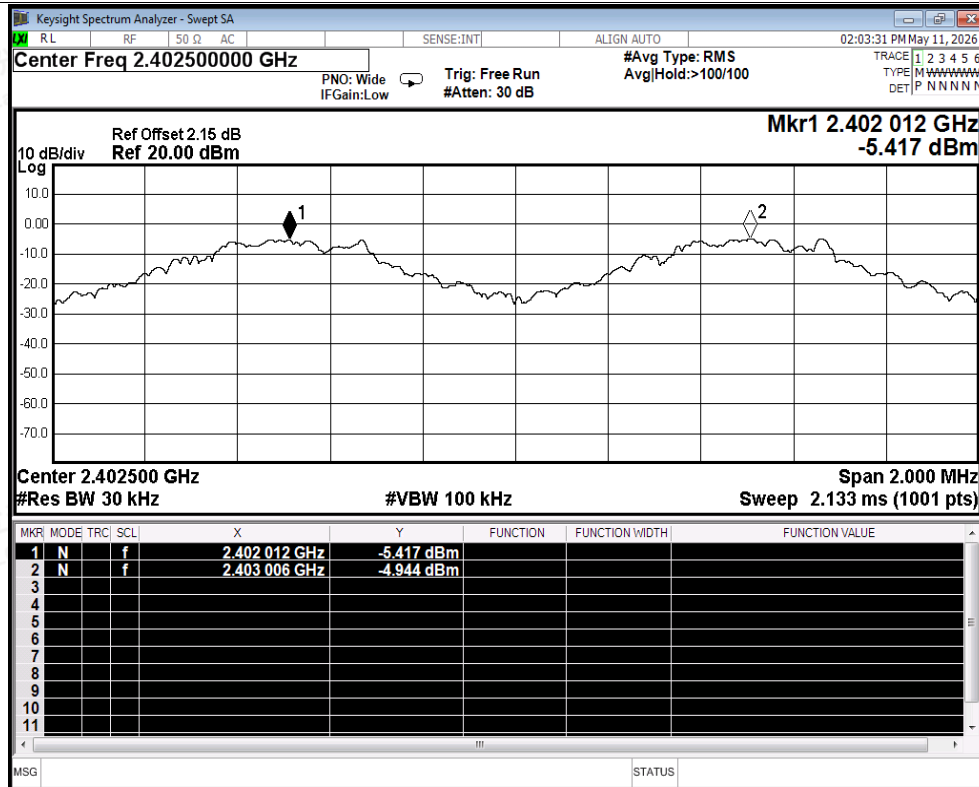




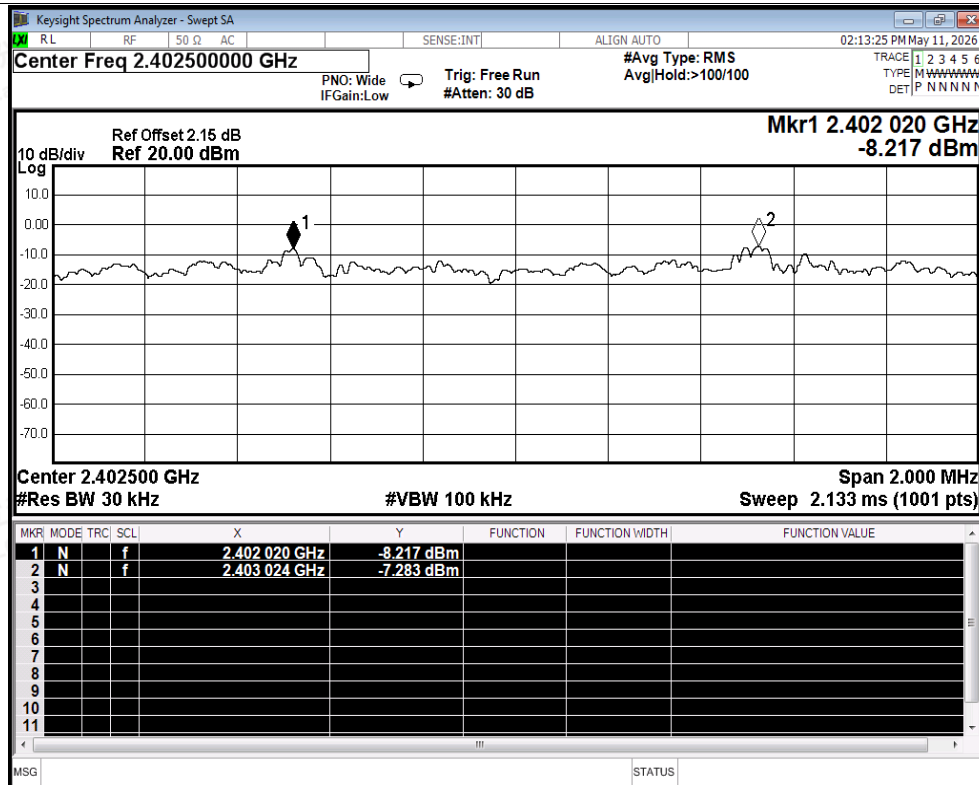
A.3 Carrier Frequencies Separation

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2402.012	2403.006	0.994	0.677	Pass
NVNT	2-DH5	Ant1	2402.02	2403.024	1.004	0.869	Pass
NVNT	3-DH5	Ant1	2402.038	2403.034	0.996	0.871	Pass



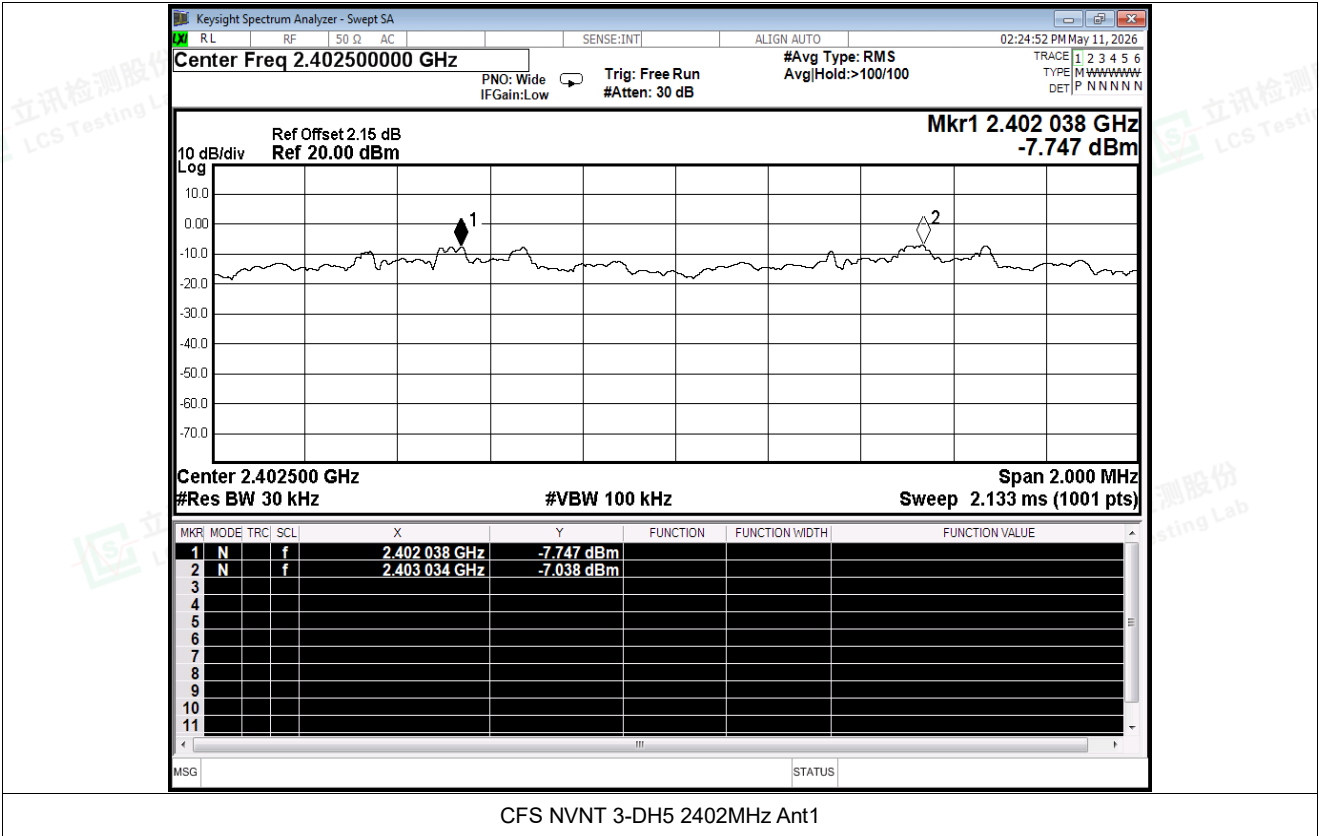


CFS NVNT 1-DH5 2402MHz Ant1



CFS NVNT 2-DH5 2402MHz Ant1



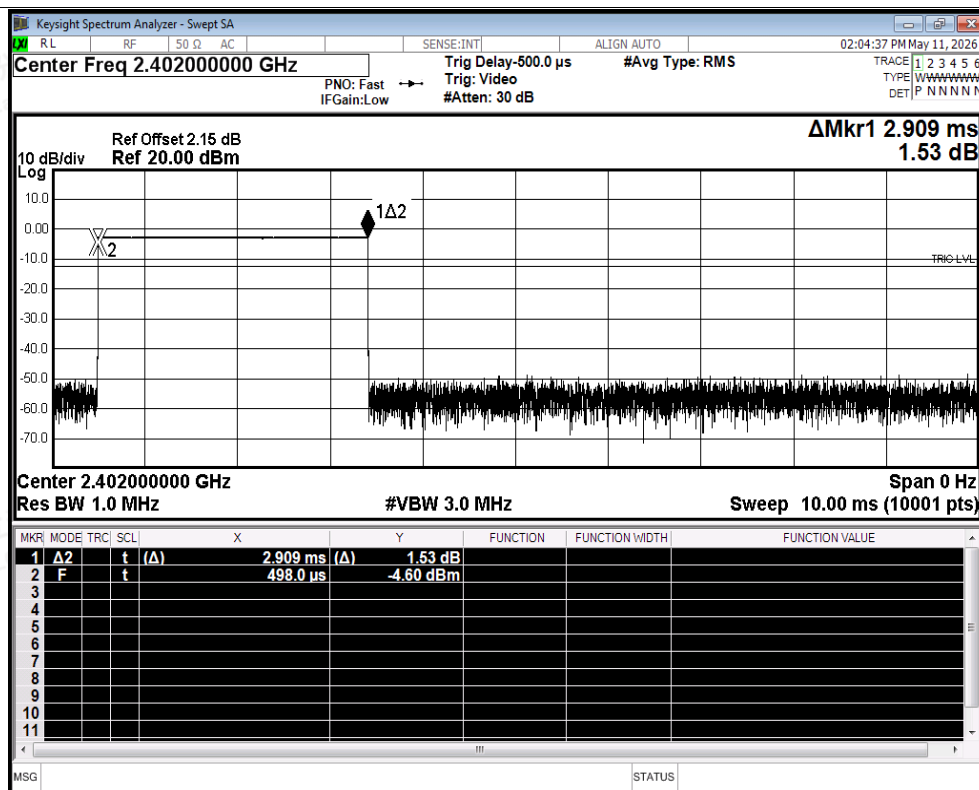




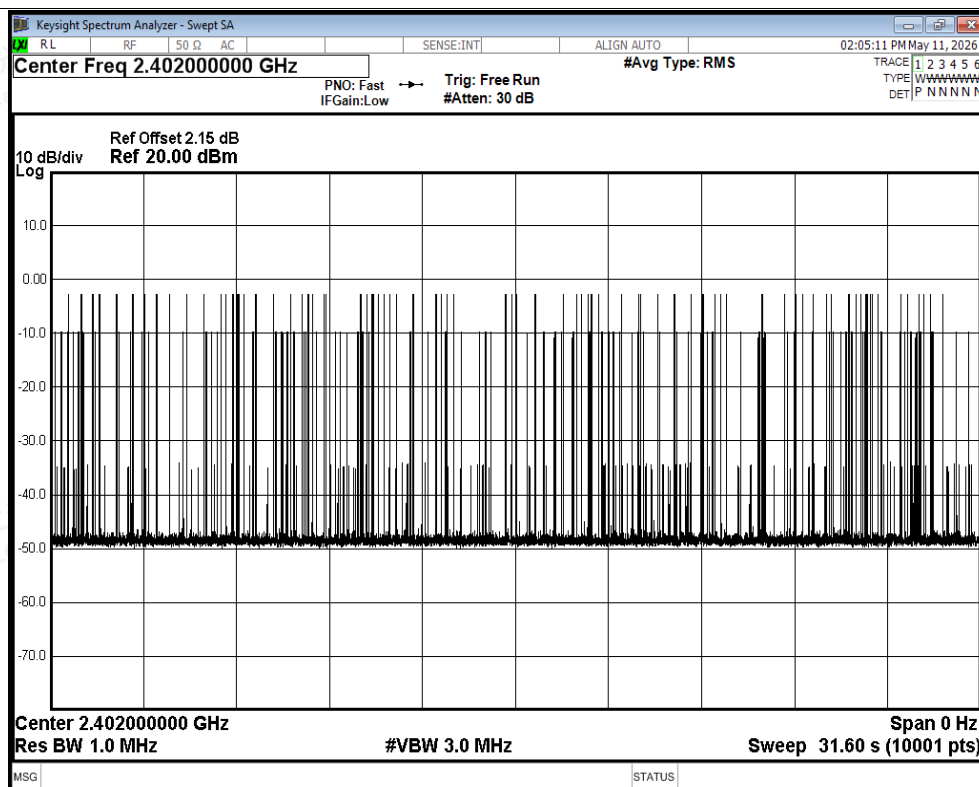
A.4 Dwell Time

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	2.909	264.719	91	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.897	307.082	106	31600	400	Pass
NVNT	3-DH5	2402	Ant1	2.891	260.19	90	31600	400	Pass



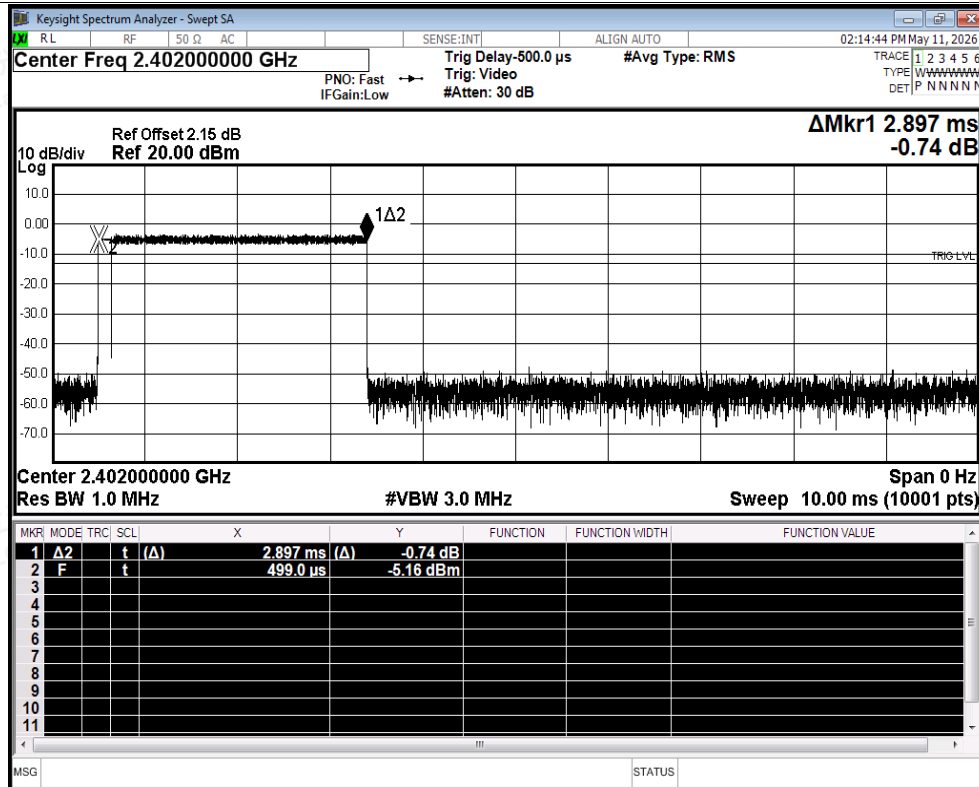


Dwell NVNT 1-DH5 2402MHz Ant1 One Burst

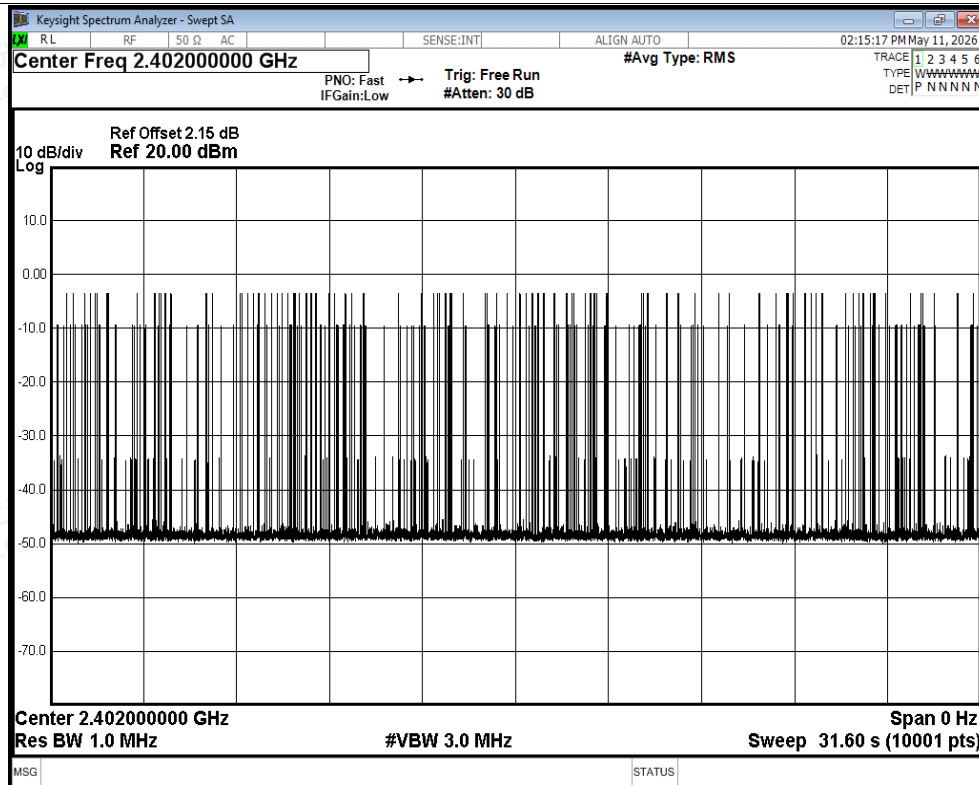


Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated



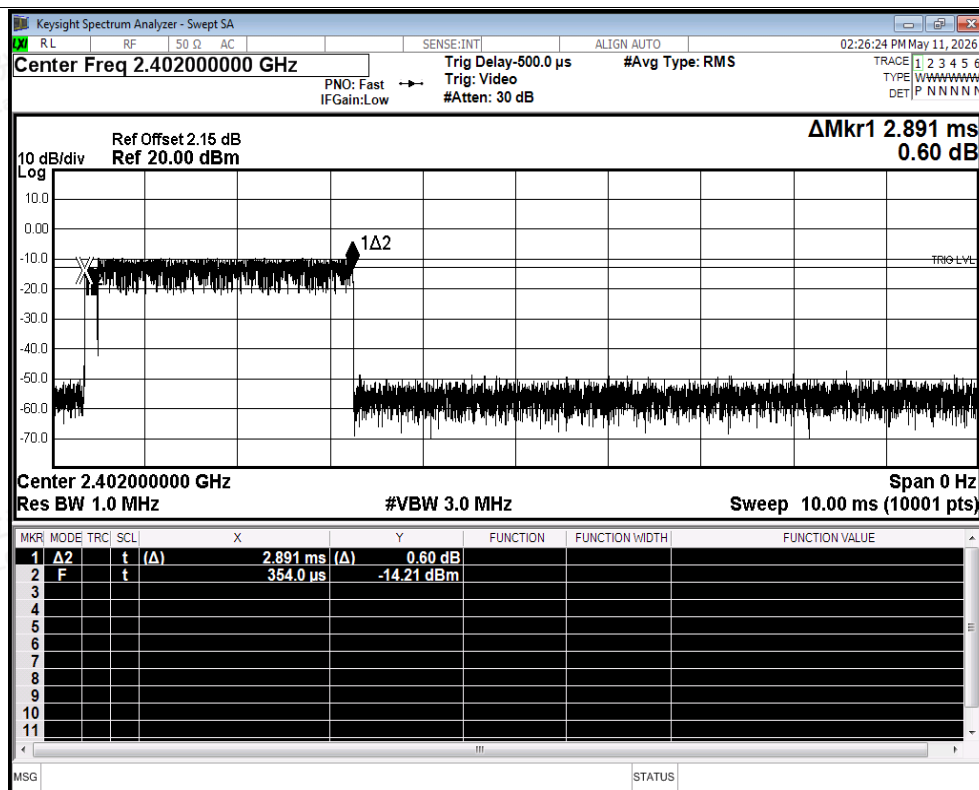


Dwell NVNT 2-DH5 2402MHz Ant1 One Burst

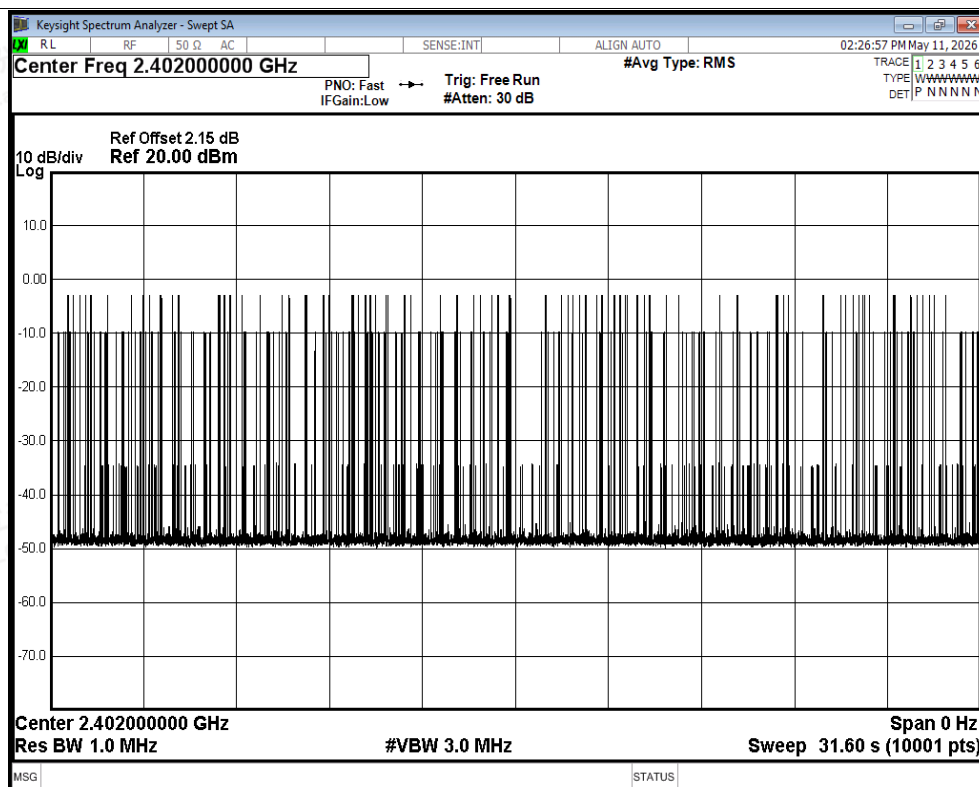


Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated





Dwell NVNT 3-DH5 2402MHz Ant1 One Burst



Dwell NVNT 3-DH5 2402MHz Ant1 Accumulated

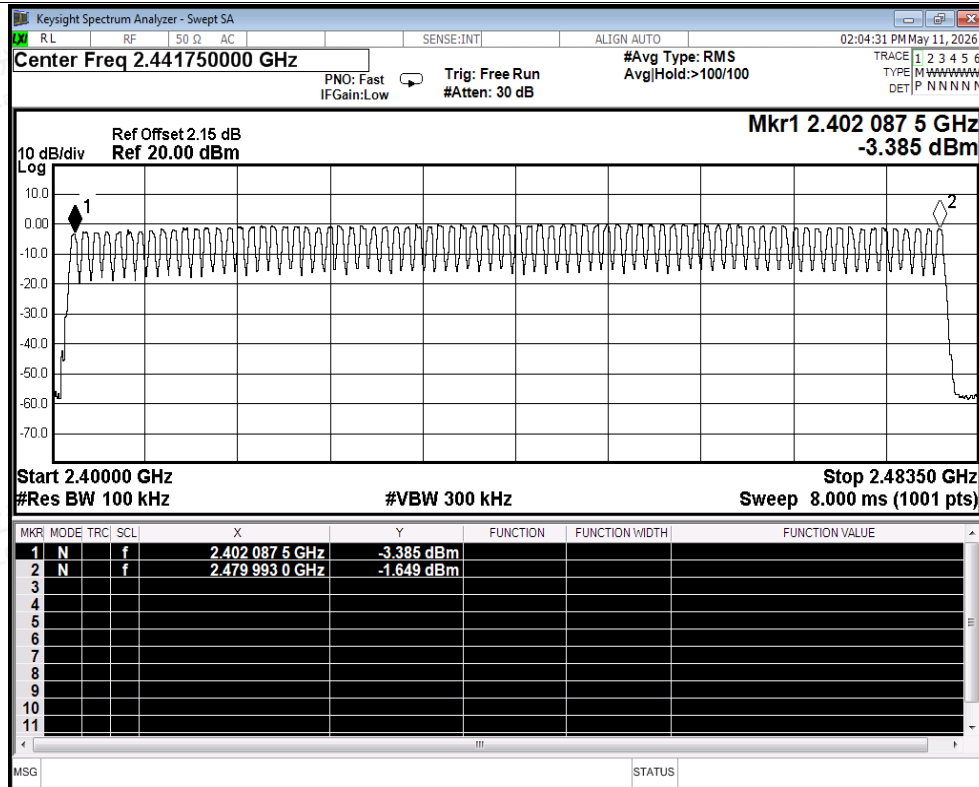




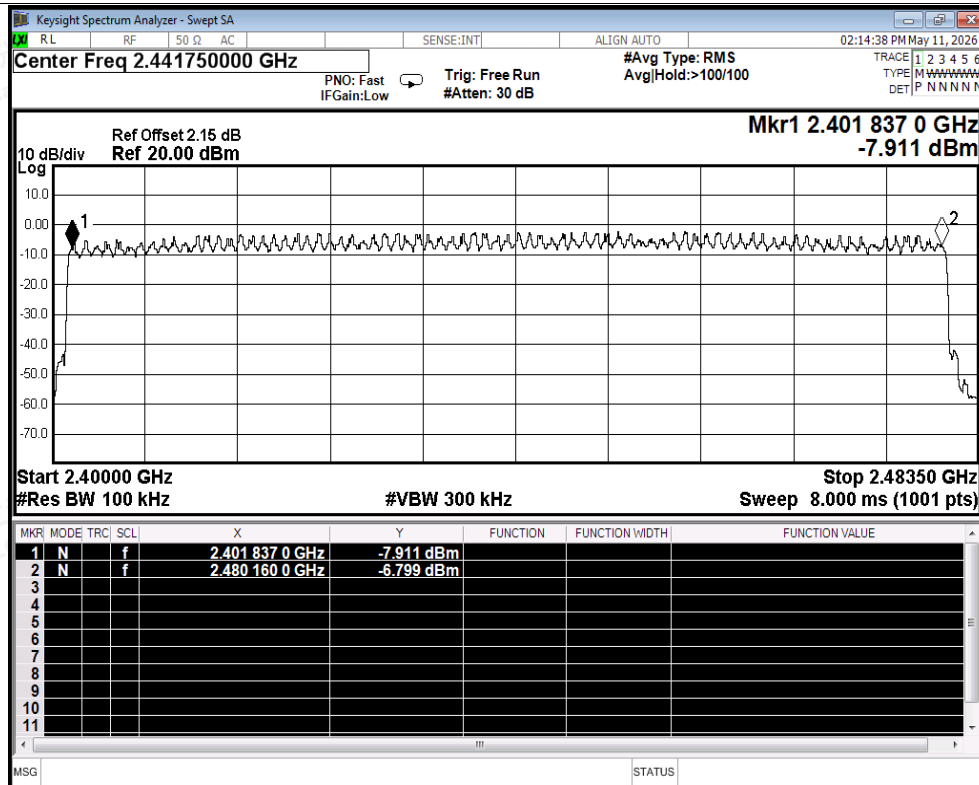
A.5 Number of Hopping Channel

Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH5	Ant1	79	15	Pass
NVNT	2-DH5	Ant1	79	15	Pass
NVNT	3-DH5	Ant1	79	15	Pass



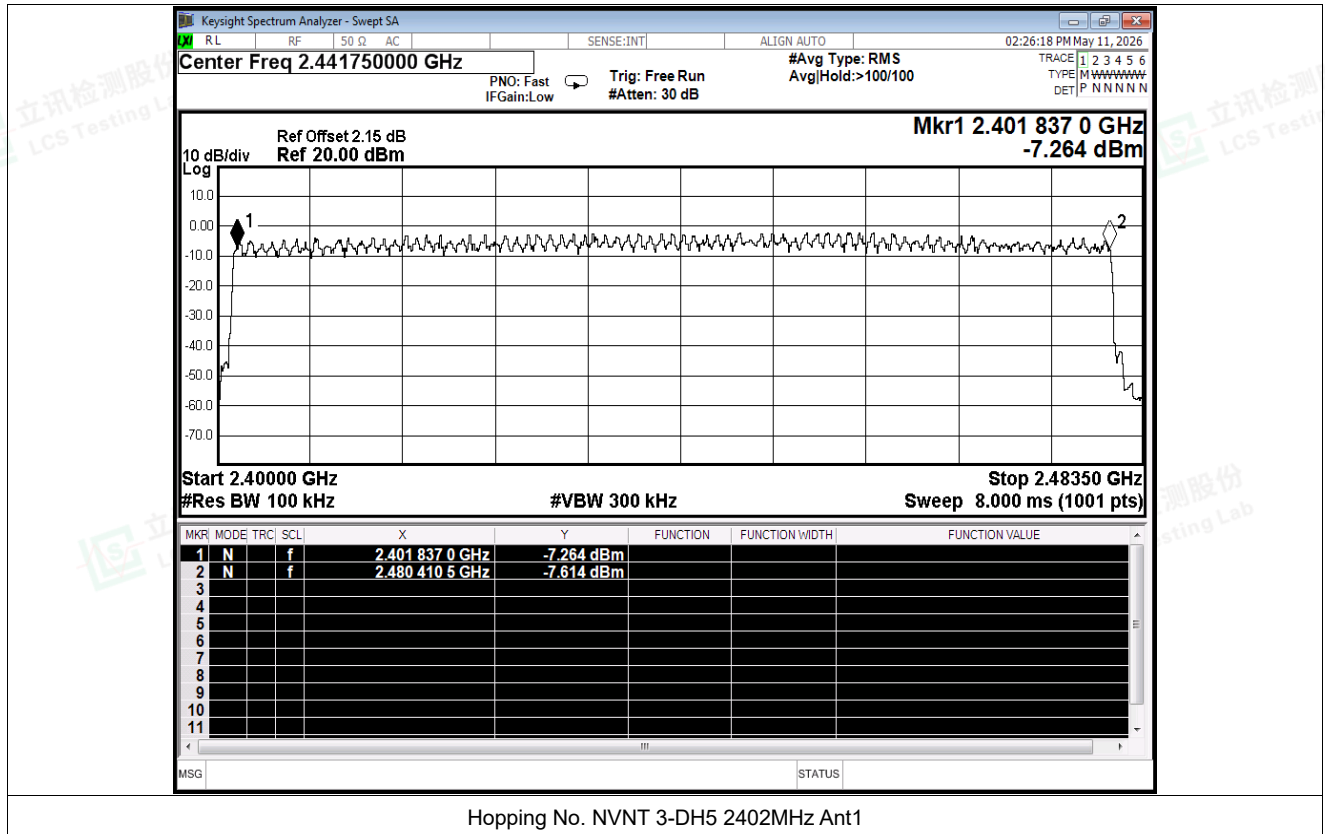


Hopping No. NVNT 1-DH5 2402MHz Ant1



Hopping No. NVNT 2-DH5 2402MHz Ant1



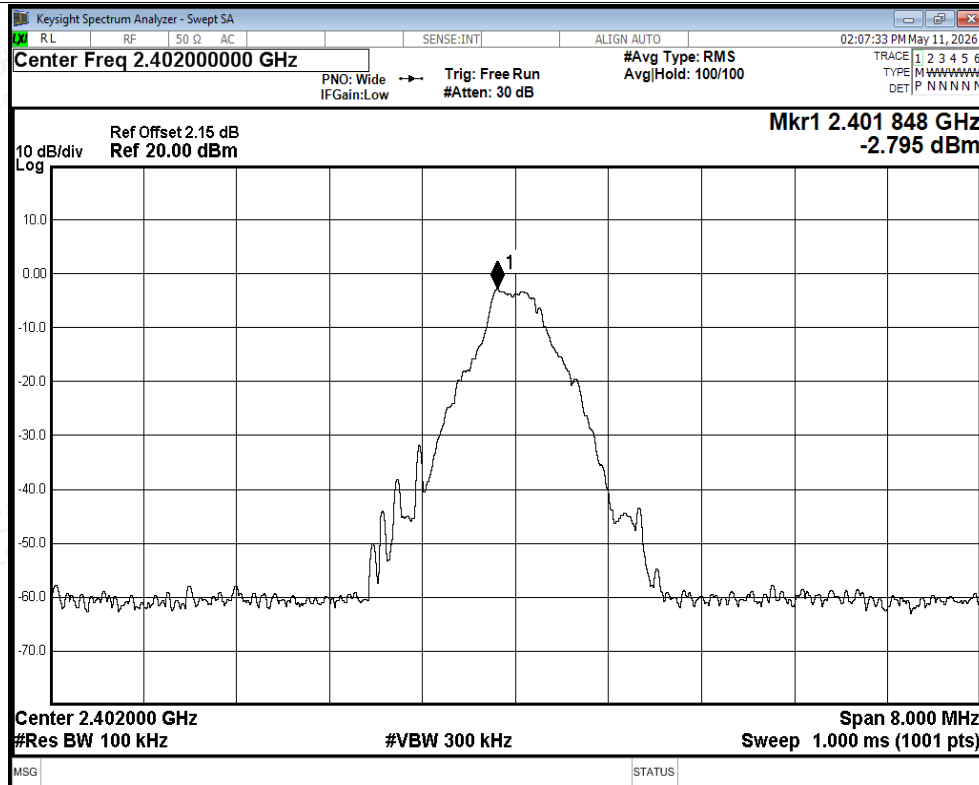




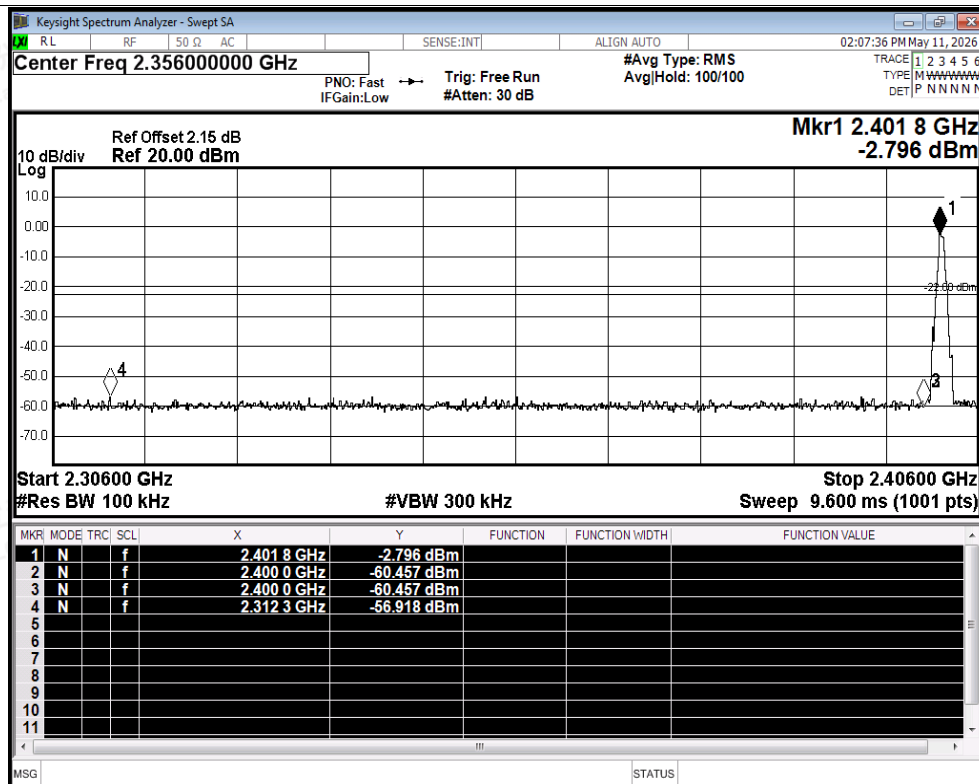
A.6 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-54.12	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-55.95	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-51.17	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-53.65	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-49.3	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-51.47	-20	Pass



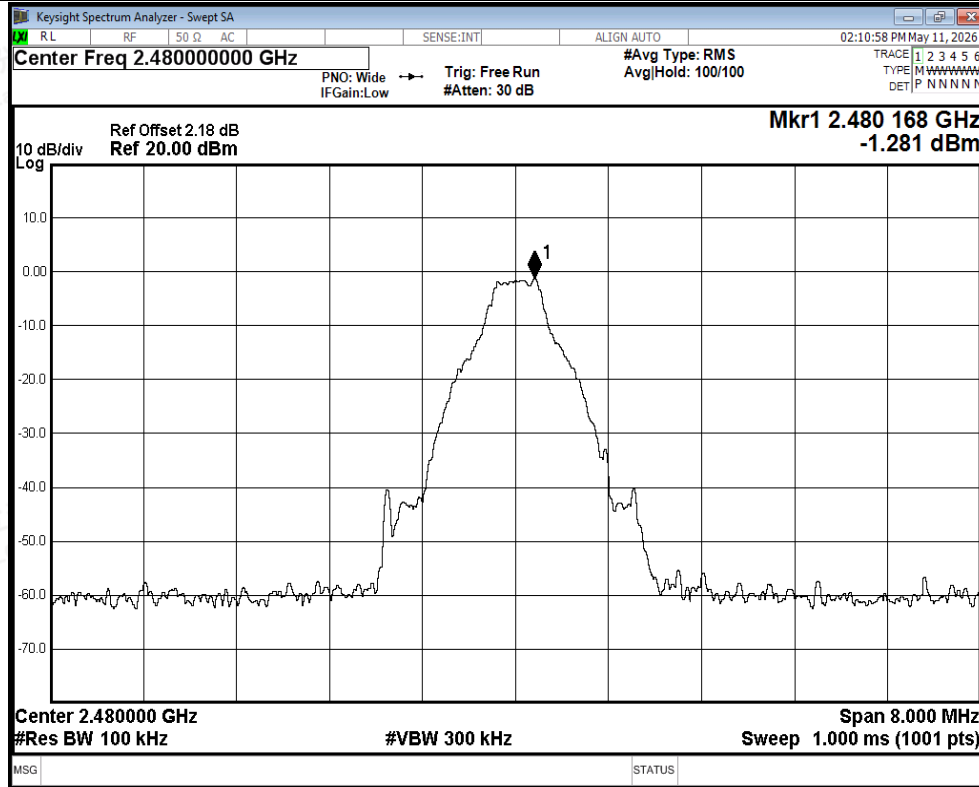


Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Ref

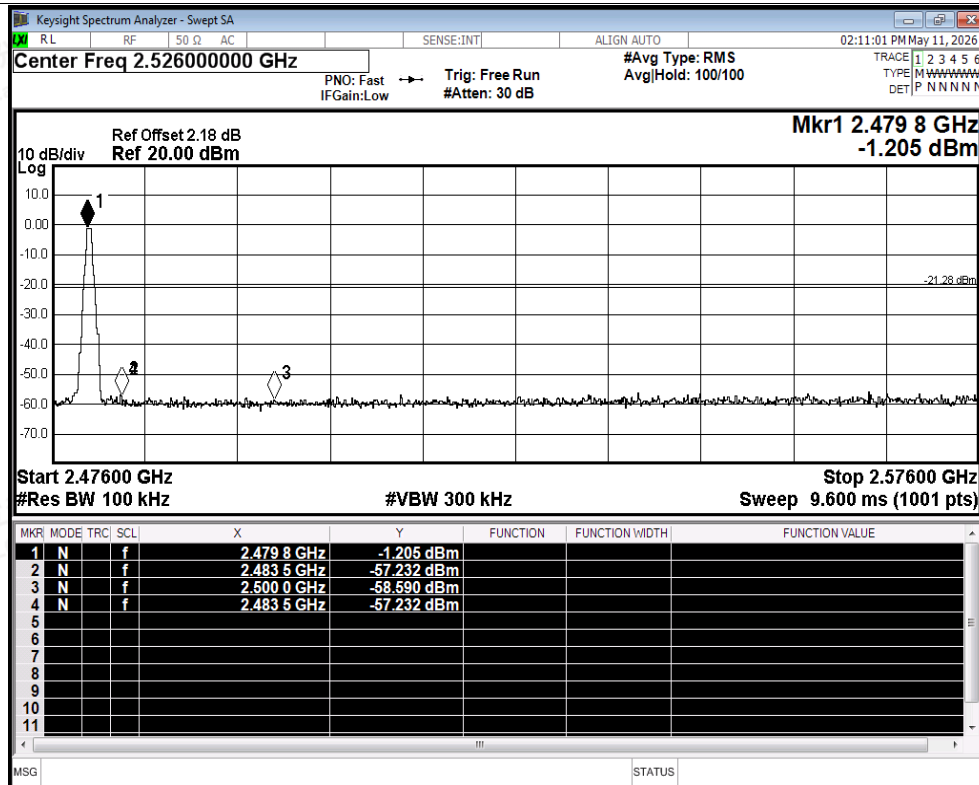


Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission



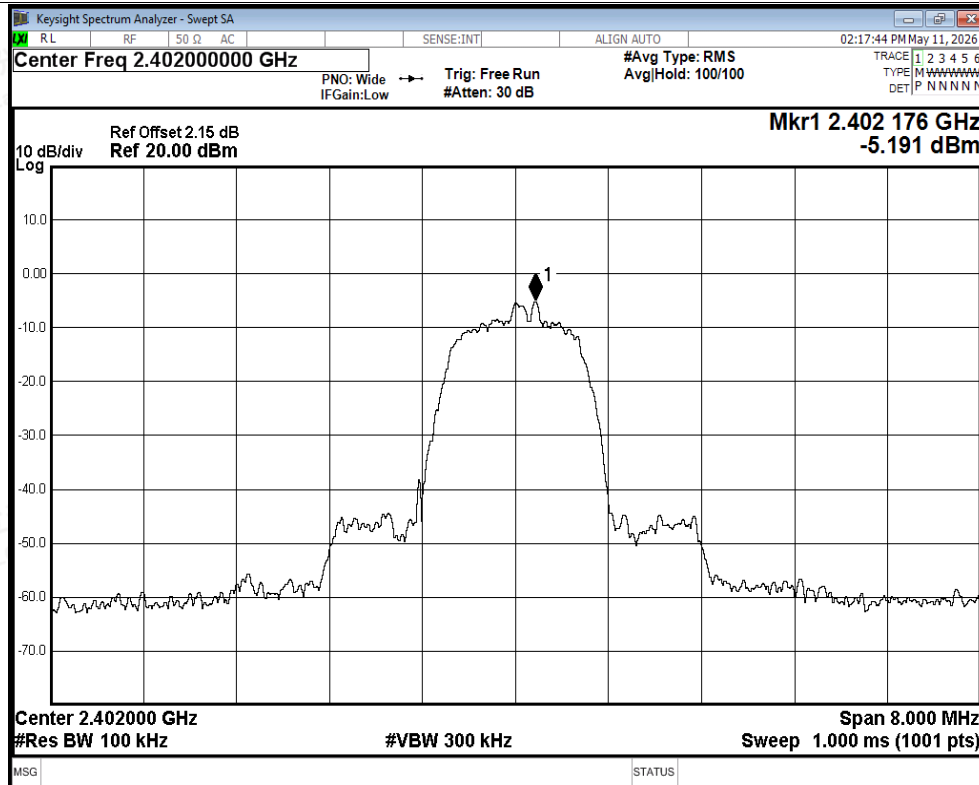


Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref

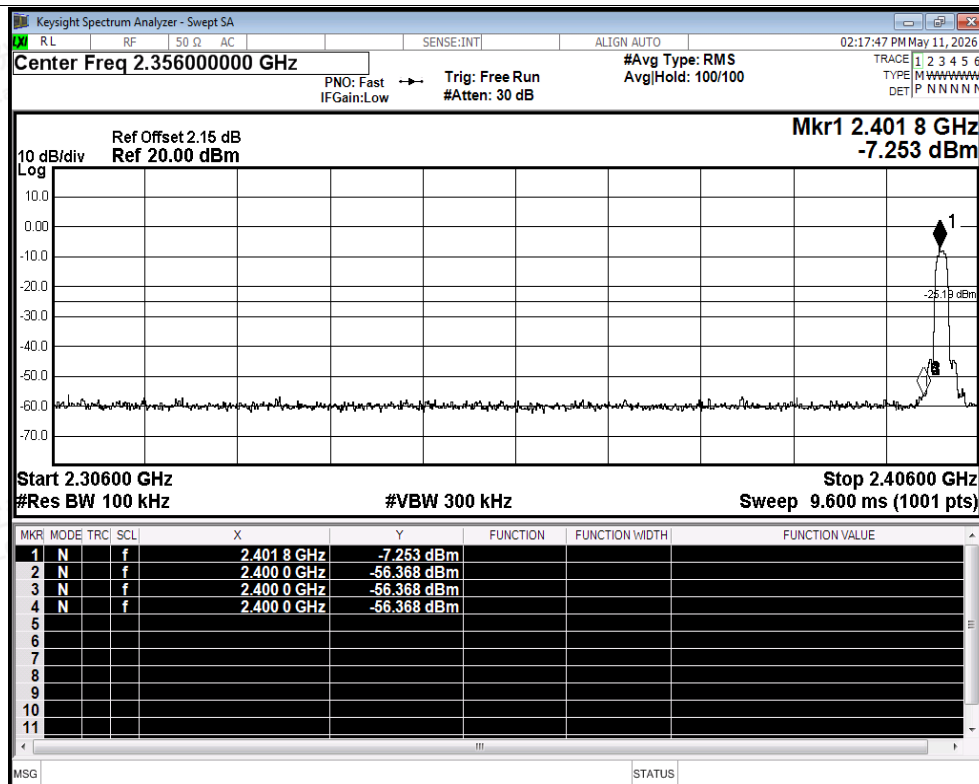


Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission



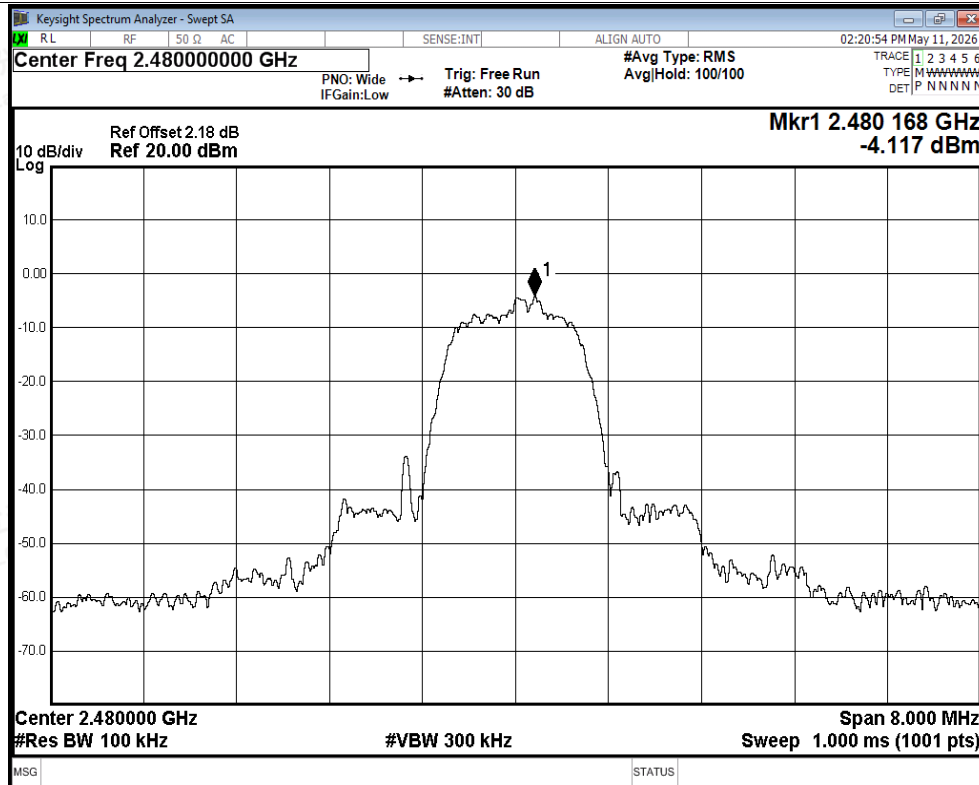


Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref

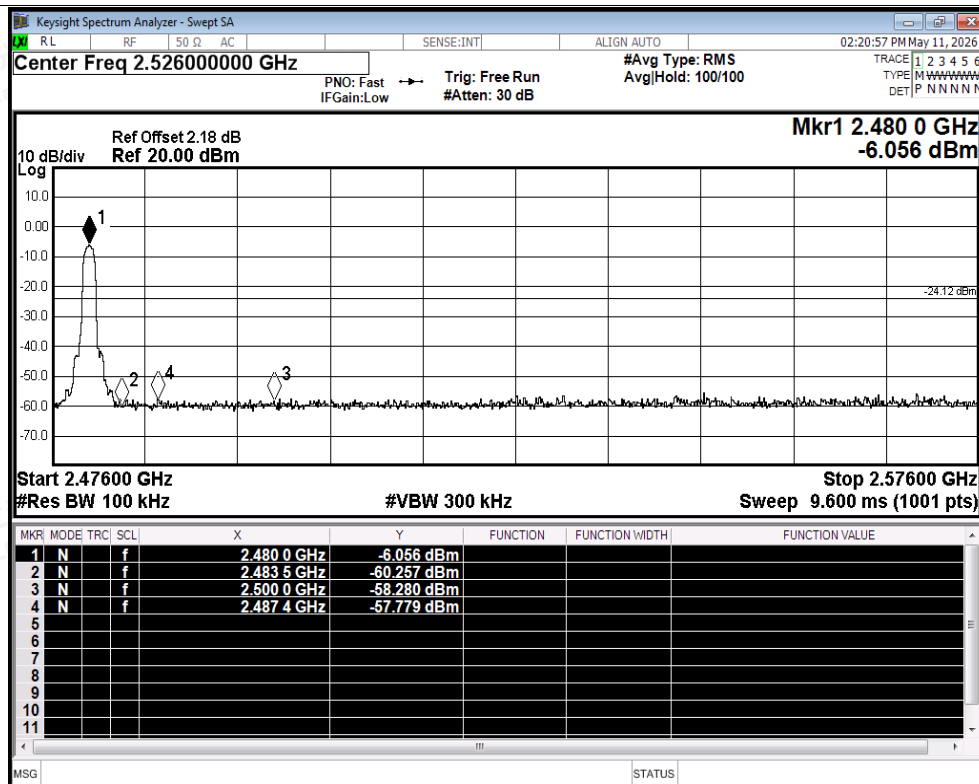


Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission



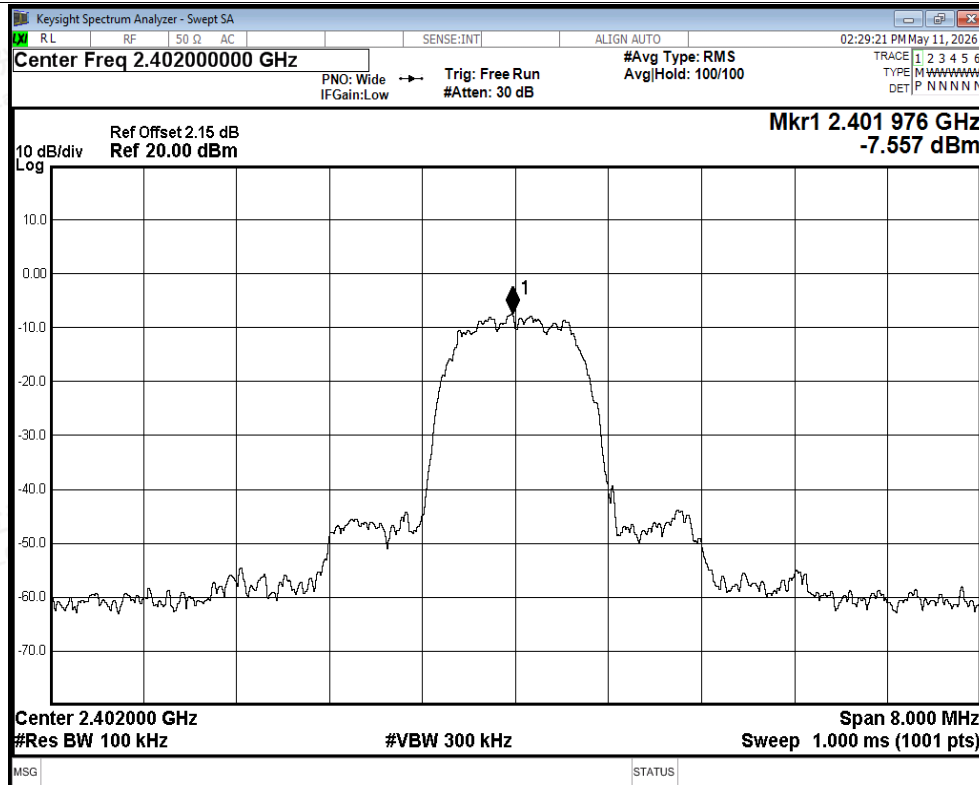


Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref

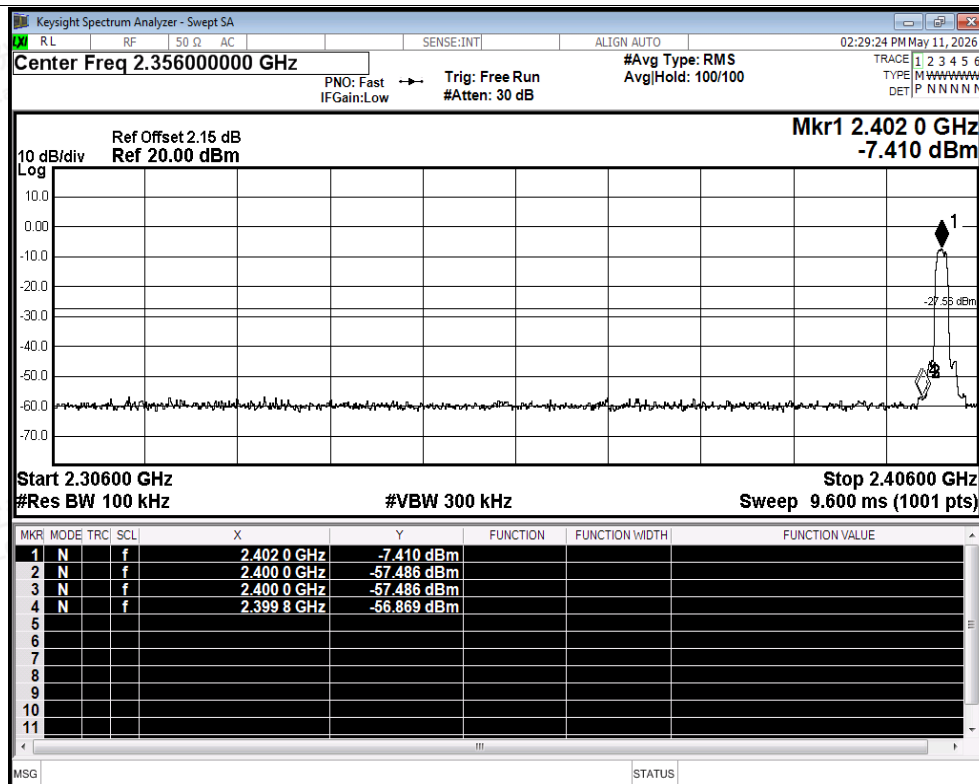


Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Emission



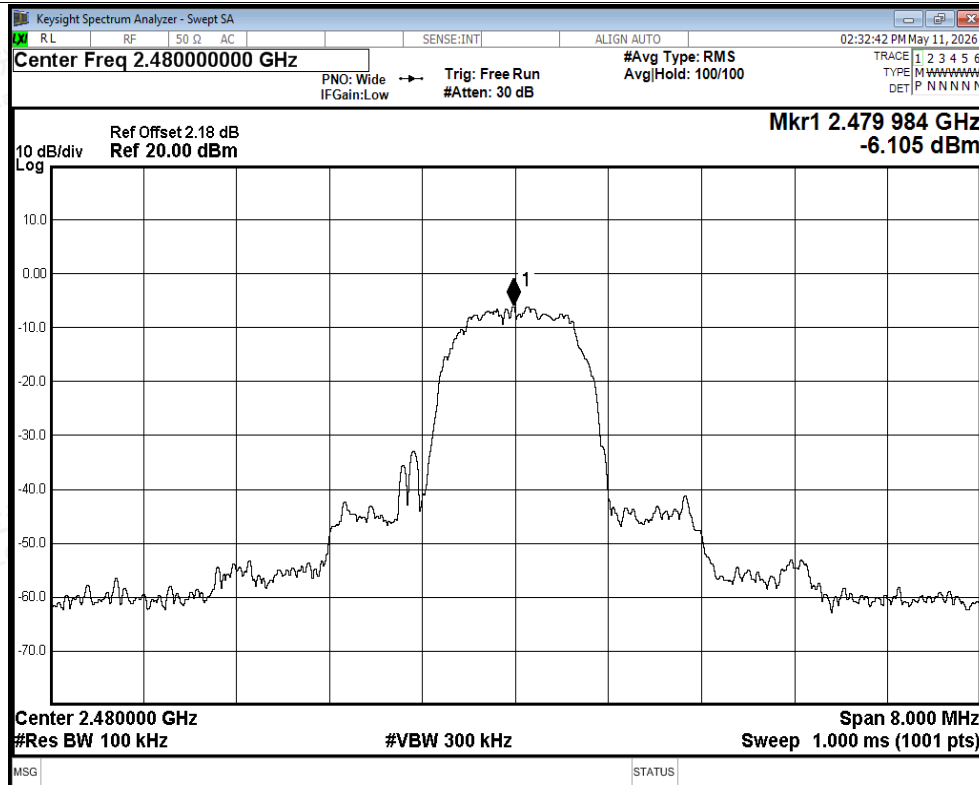


Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Ref

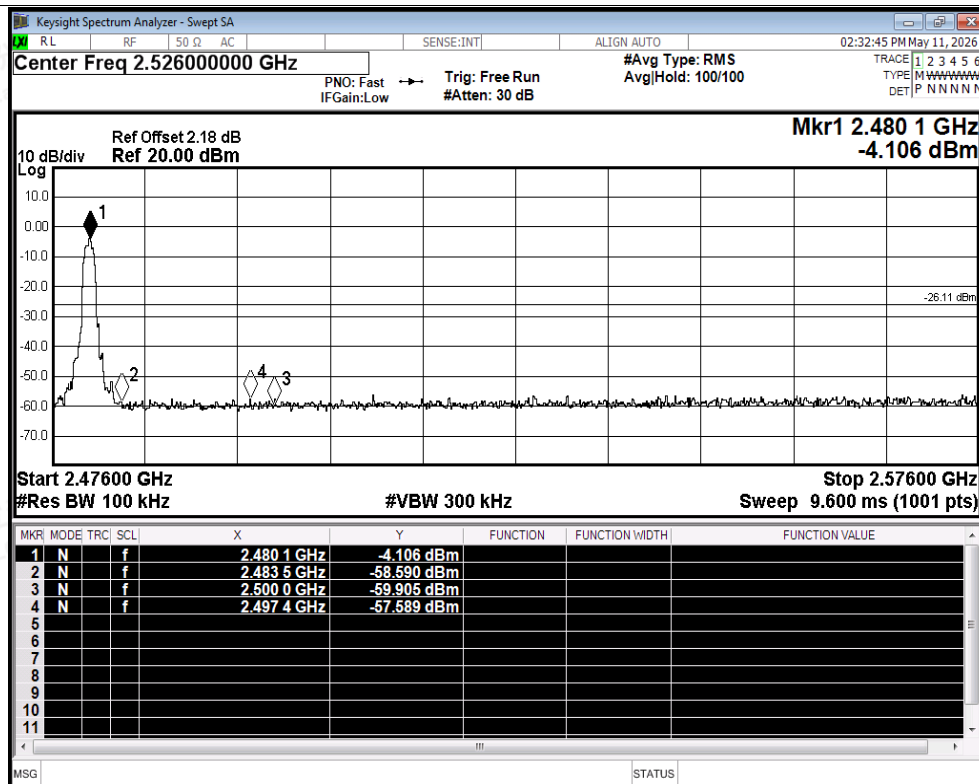


Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Emission





Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Ref



Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Emission

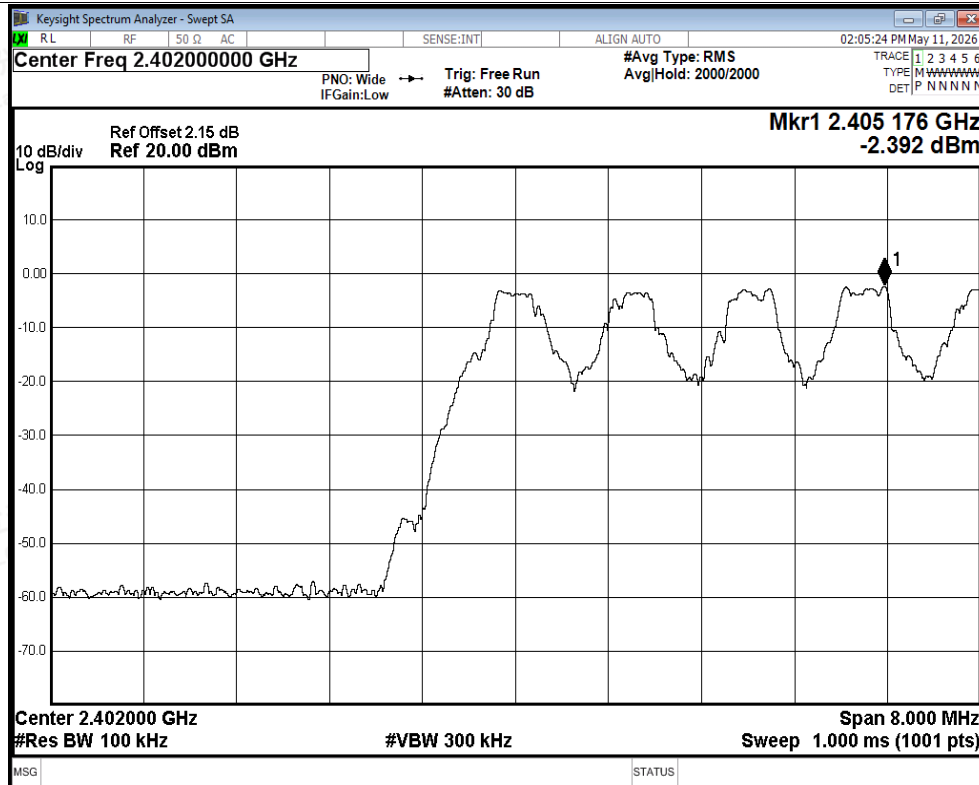




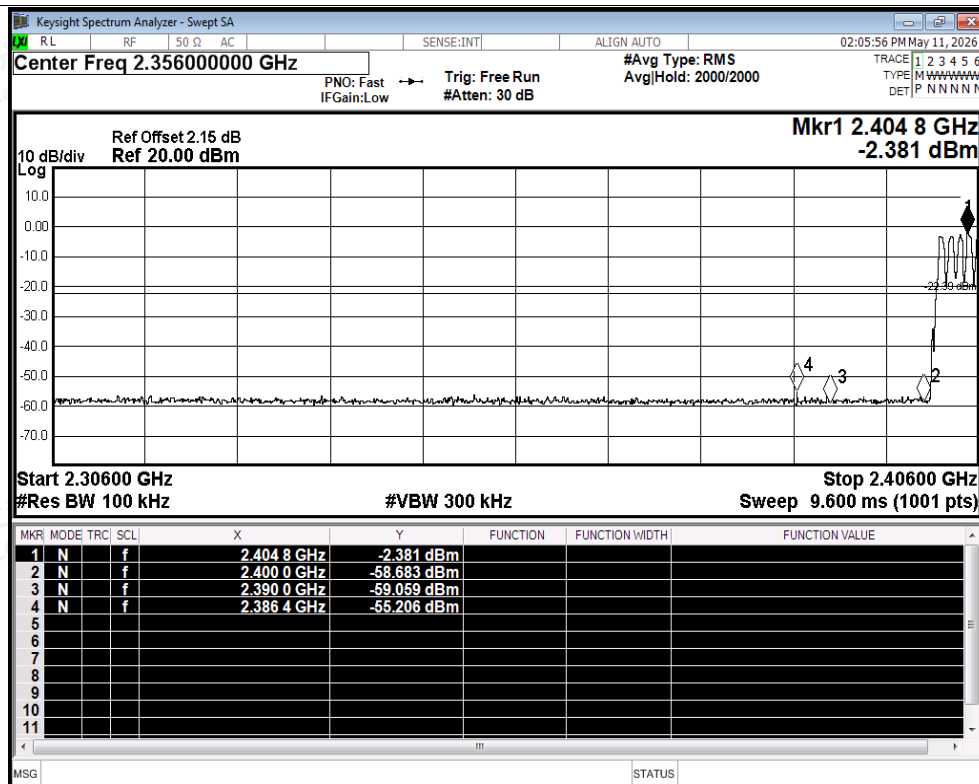
(Hopping)

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-52.81	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-55.17	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-50.34	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-52.17	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-51.24	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-52.21	-20	Pass



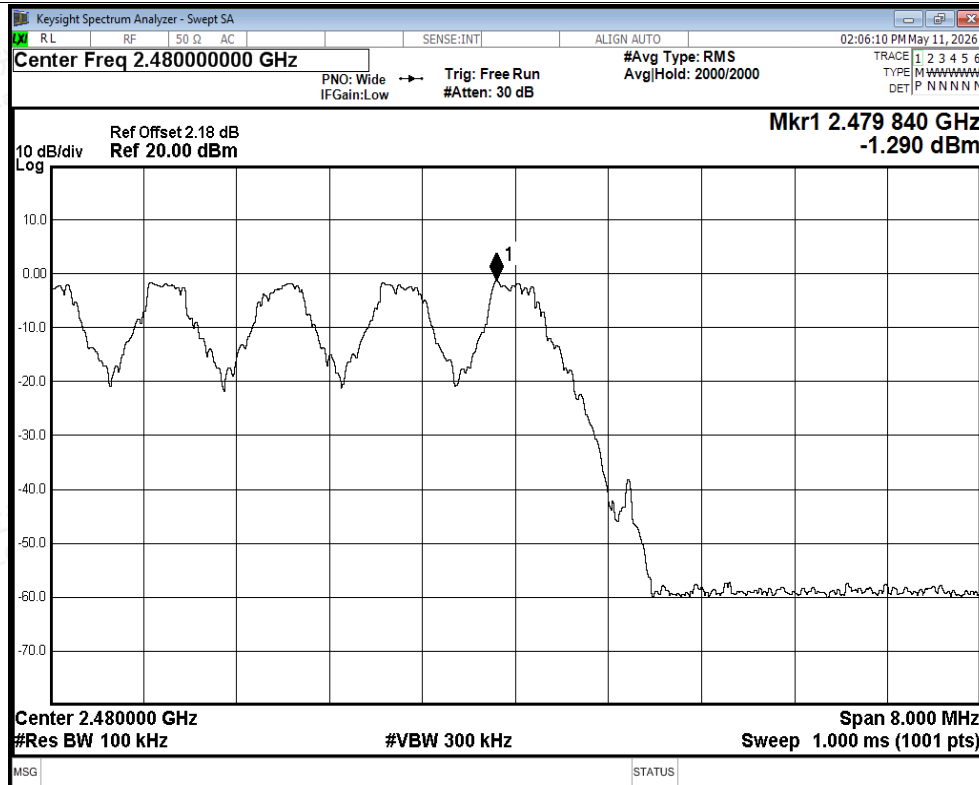


Band Edge (Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Ref

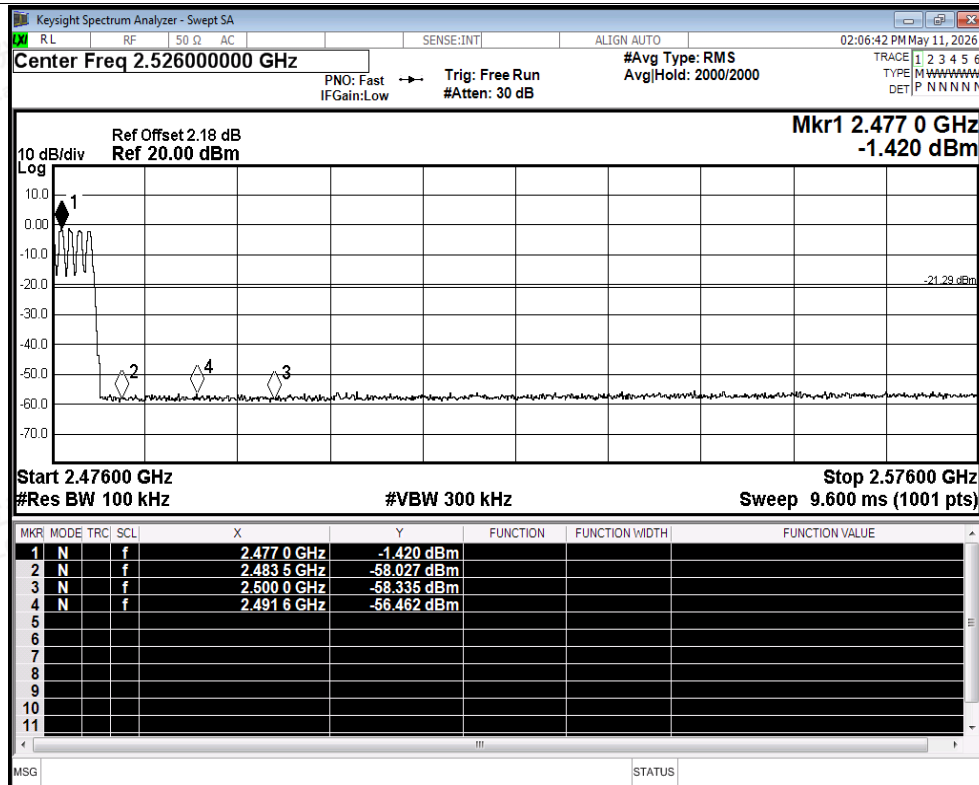


Band Edge (Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission



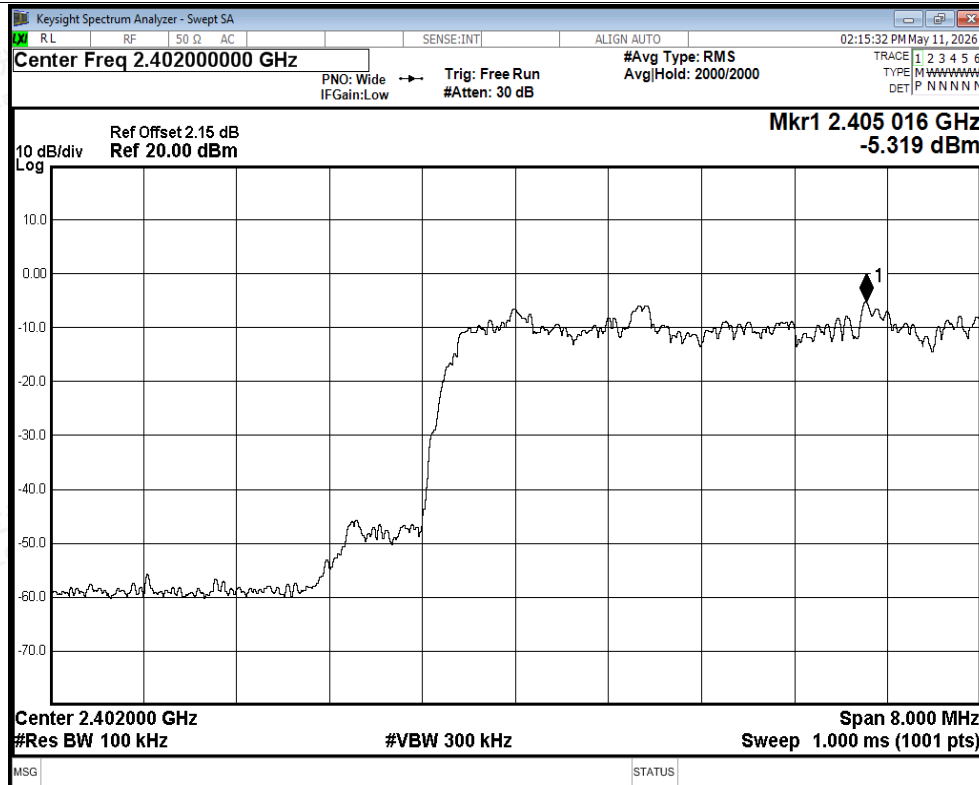


Band Edge (Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Ref

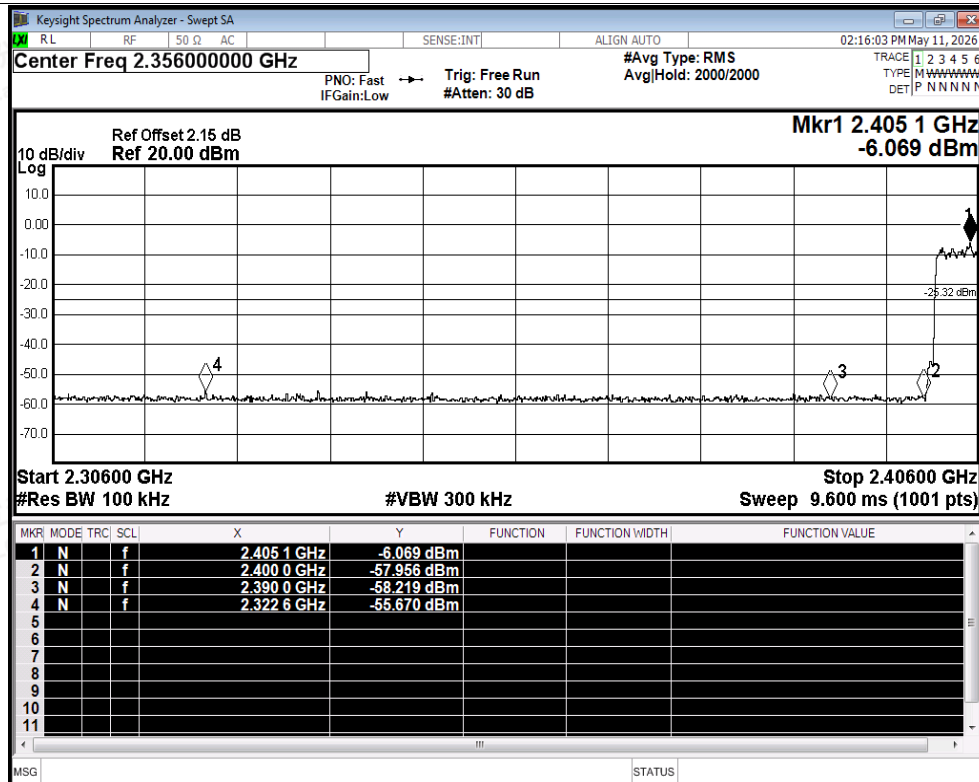


Band Edge (Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Emission



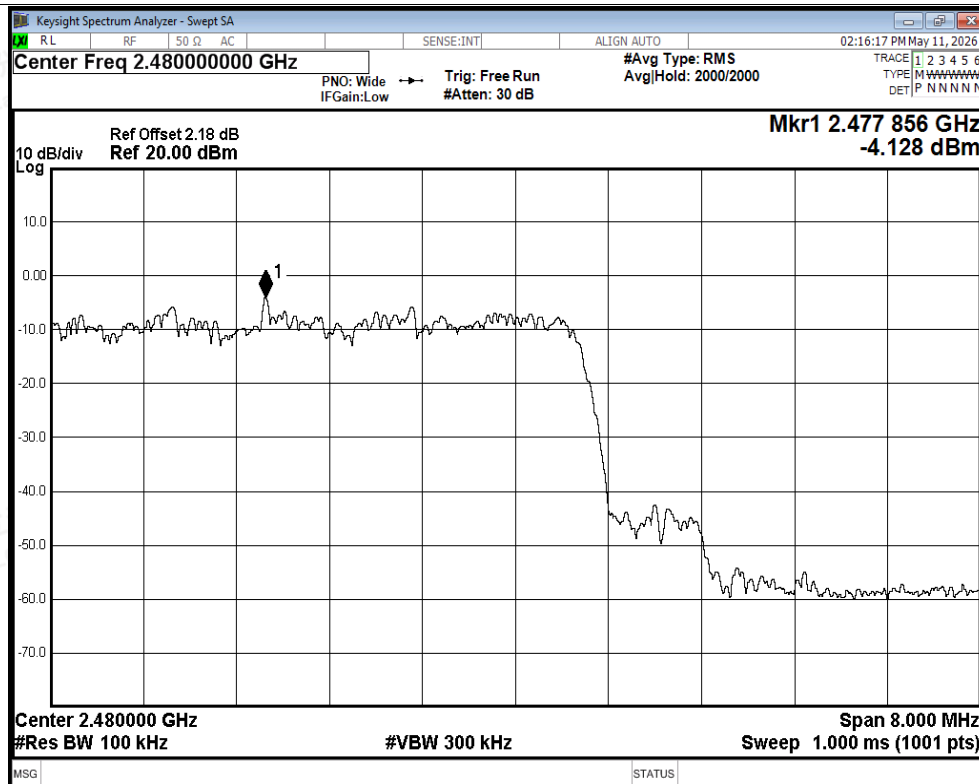


Band Edge (Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Ref

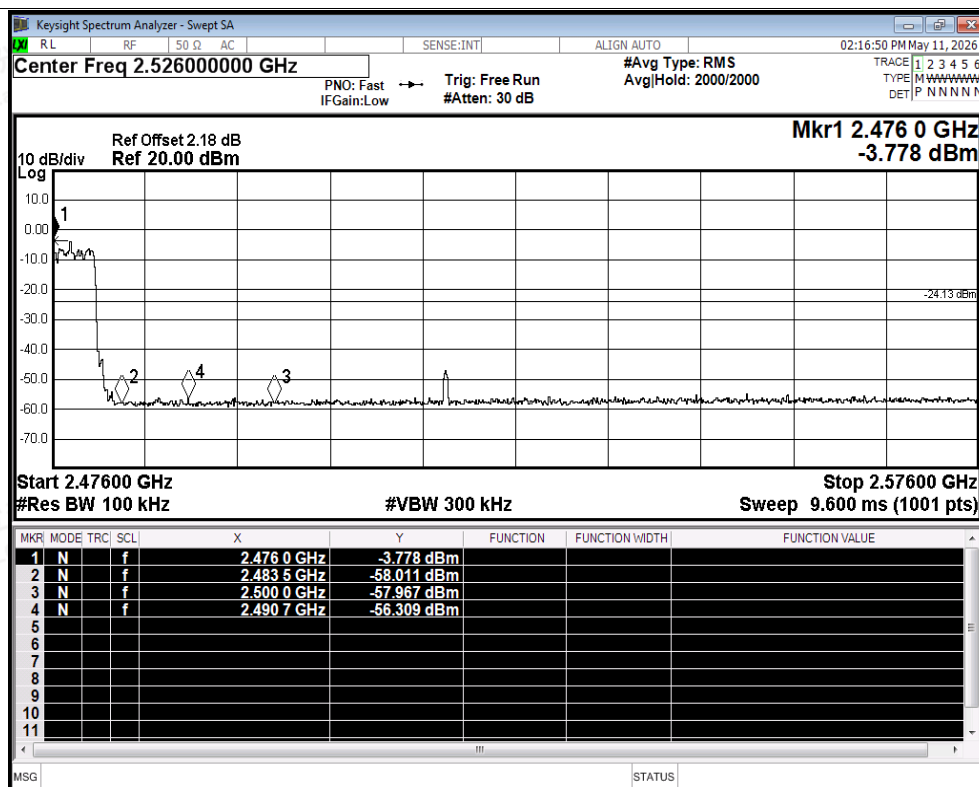


Band Edge (Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Emission



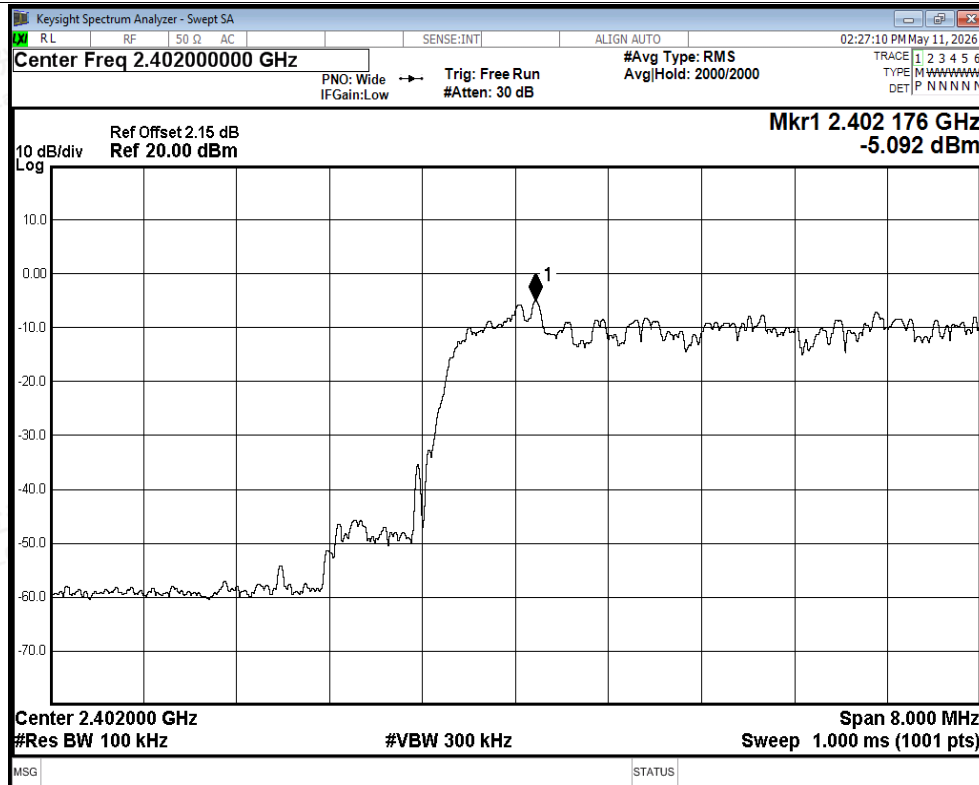


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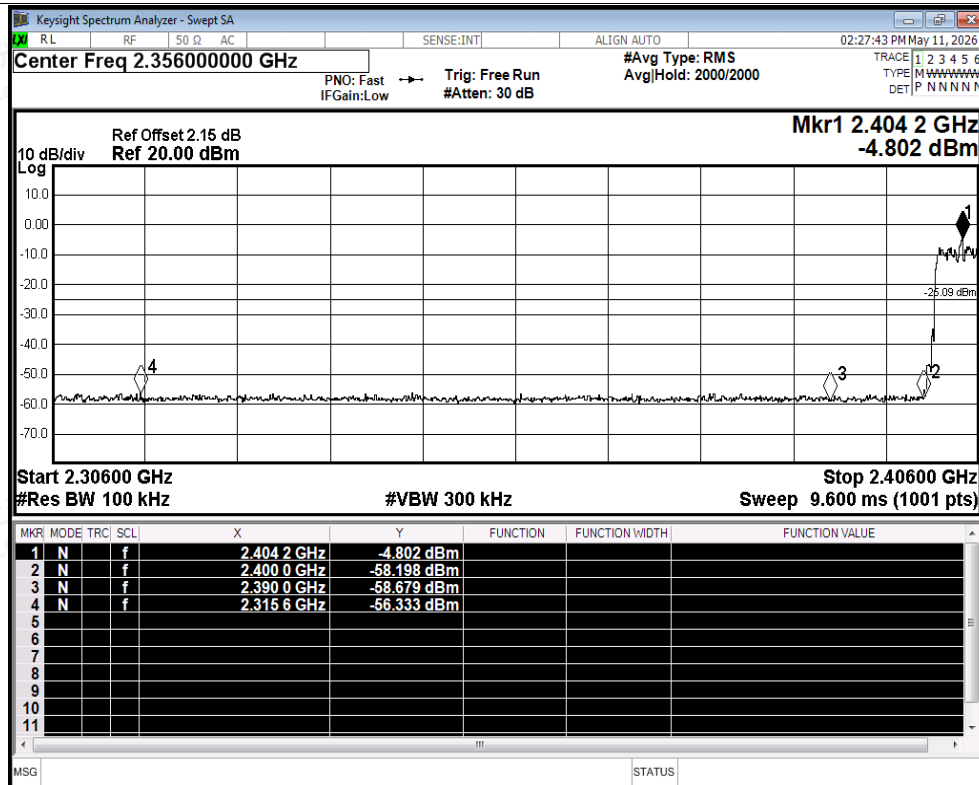


Band Edge (Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Emission



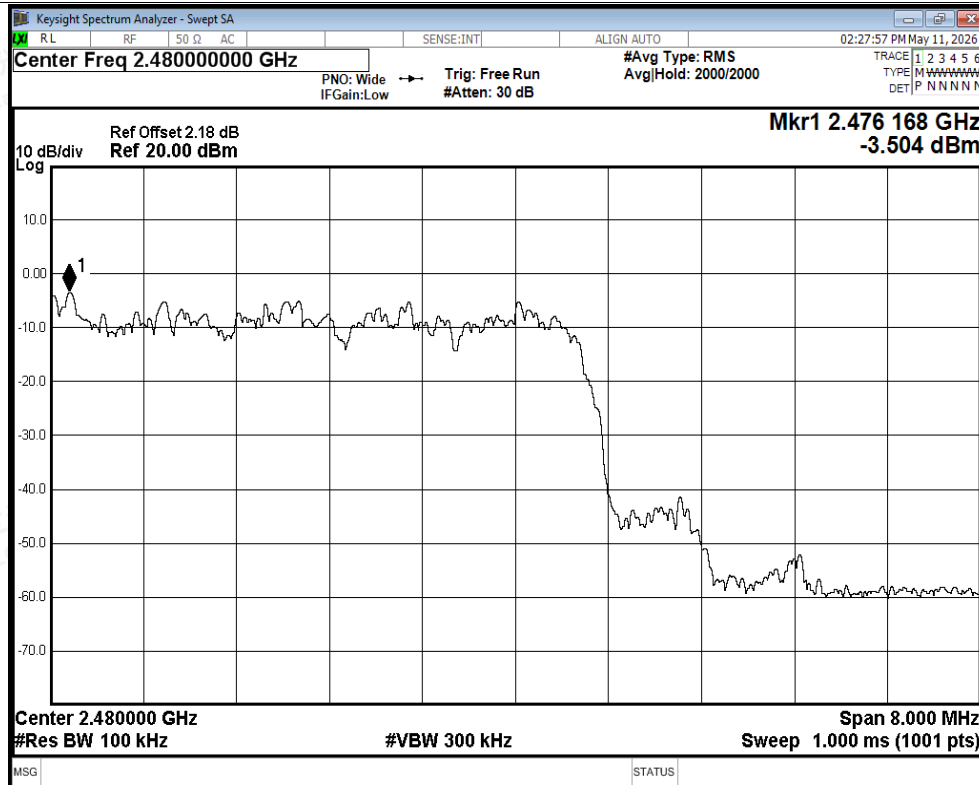


Band Edge (Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Ref

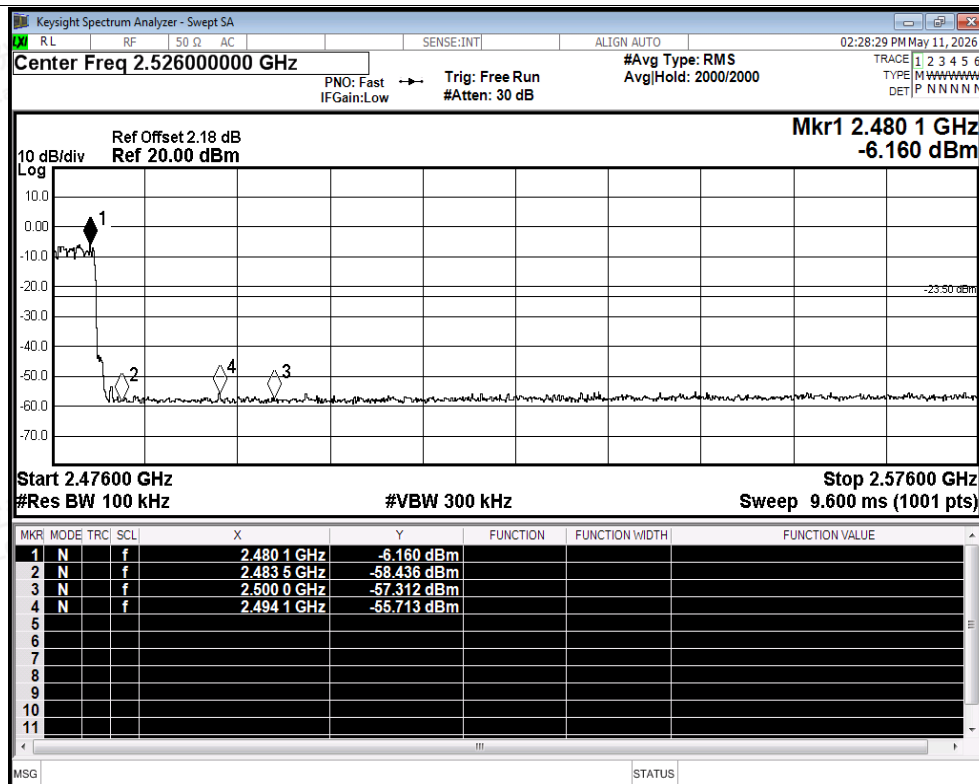


Band Edge (Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Emission





Band Edge (Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Ref



Band Edge (Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Emission

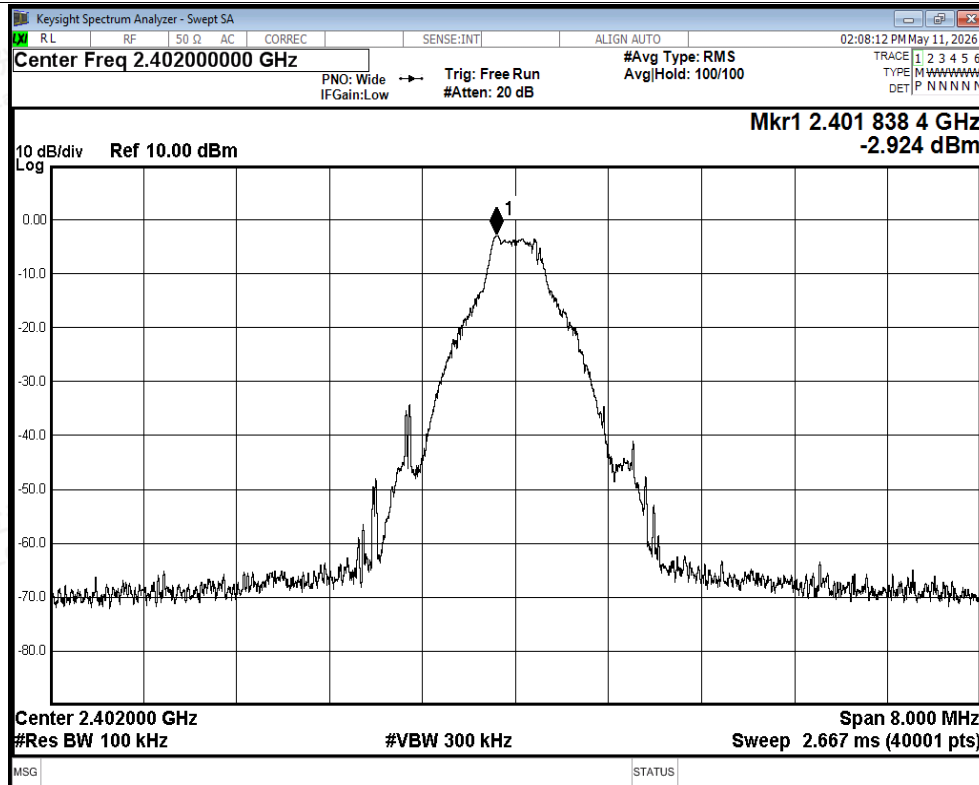




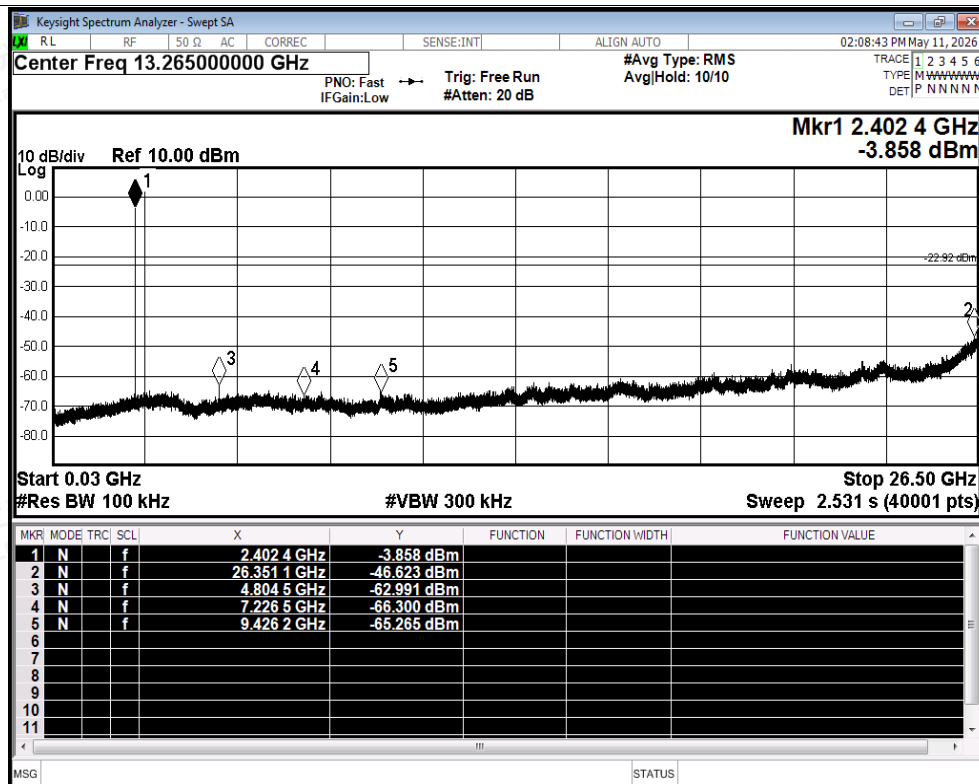
A.7 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-43.7	-20	Pass
NVNT	1-DH5	2441	Ant1	-45.13	-20	Pass
NVNT	1-DH5	2480	Ant1	-45.38	-20	Pass
NVNT	2-DH5	2402	Ant1	-40.99	-20	Pass
NVNT	2-DH5	2441	Ant1	-43.46	-20	Pass
NVNT	2-DH5	2480	Ant1	-43.38	-20	Pass
NVNT	3-DH5	2402	Ant1	-41.73	-20	Pass
NVNT	3-DH5	2441	Ant1	-44.73	-20	Pass
NVNT	3-DH5	2480	Ant1	-42.61	-20	Pass



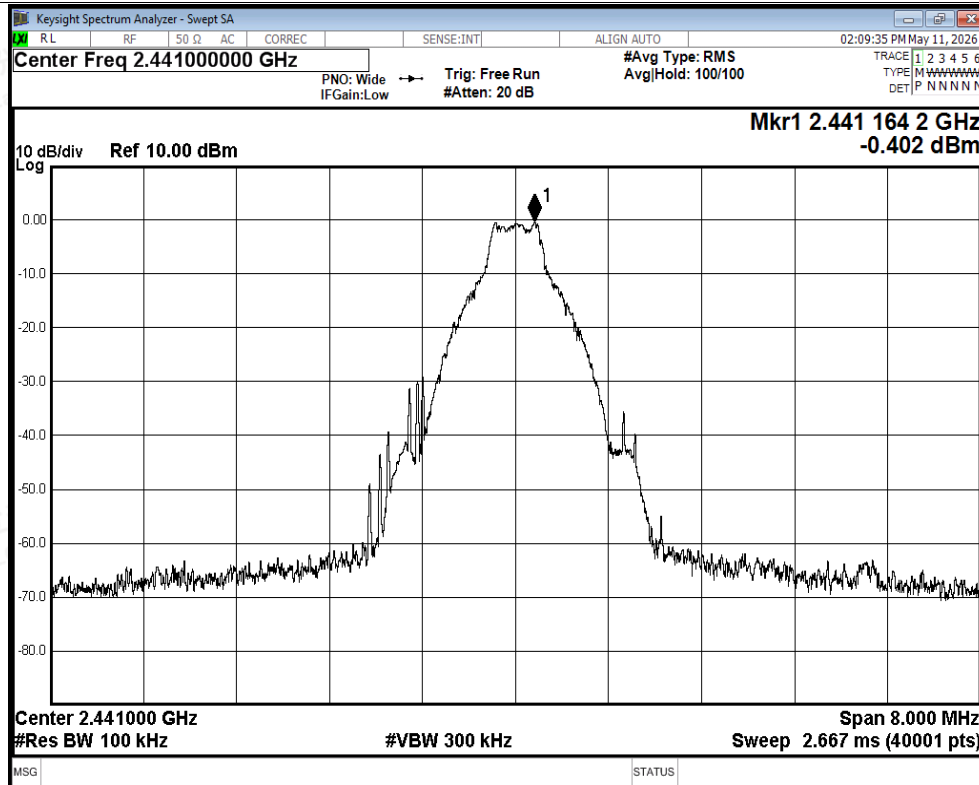


Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref

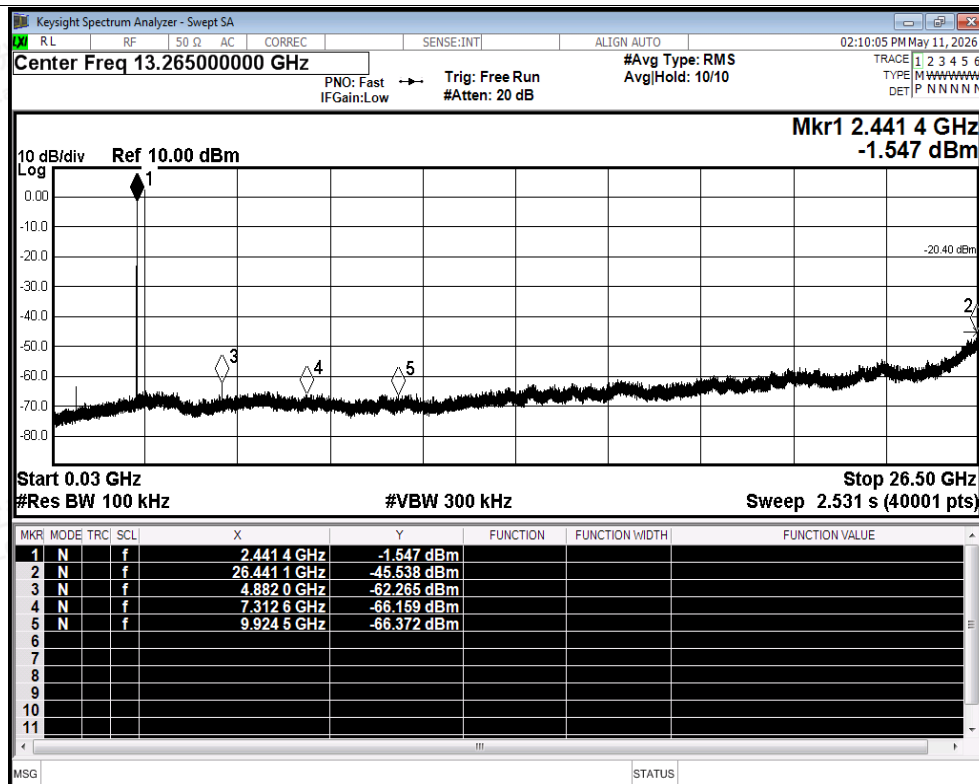


Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission



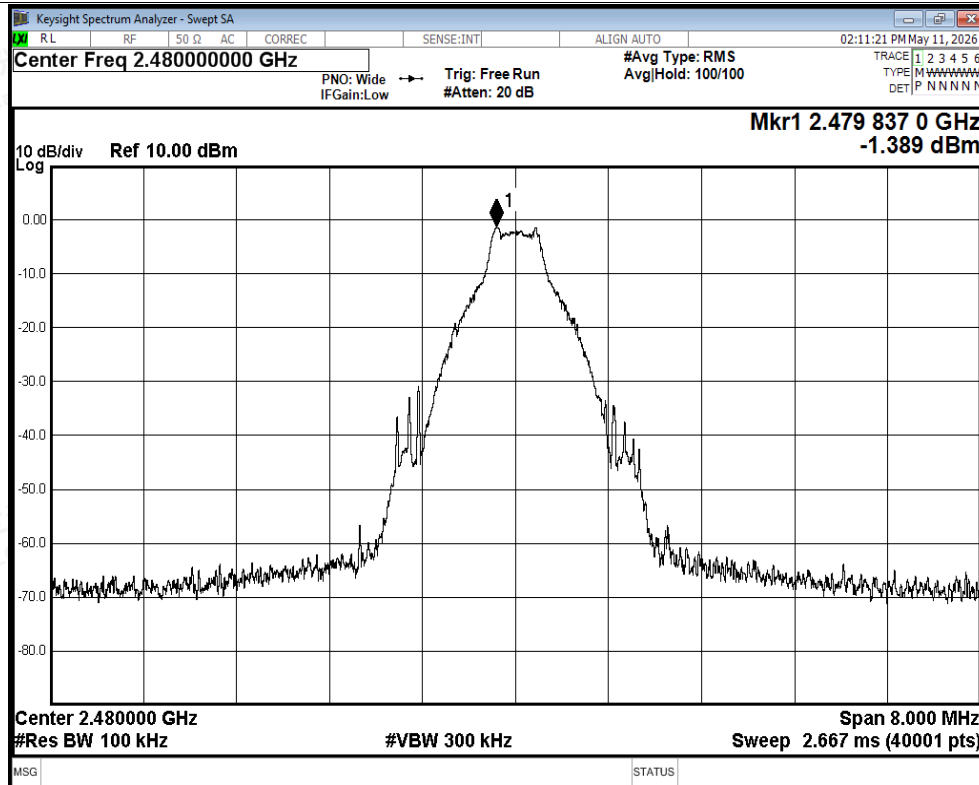


Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref

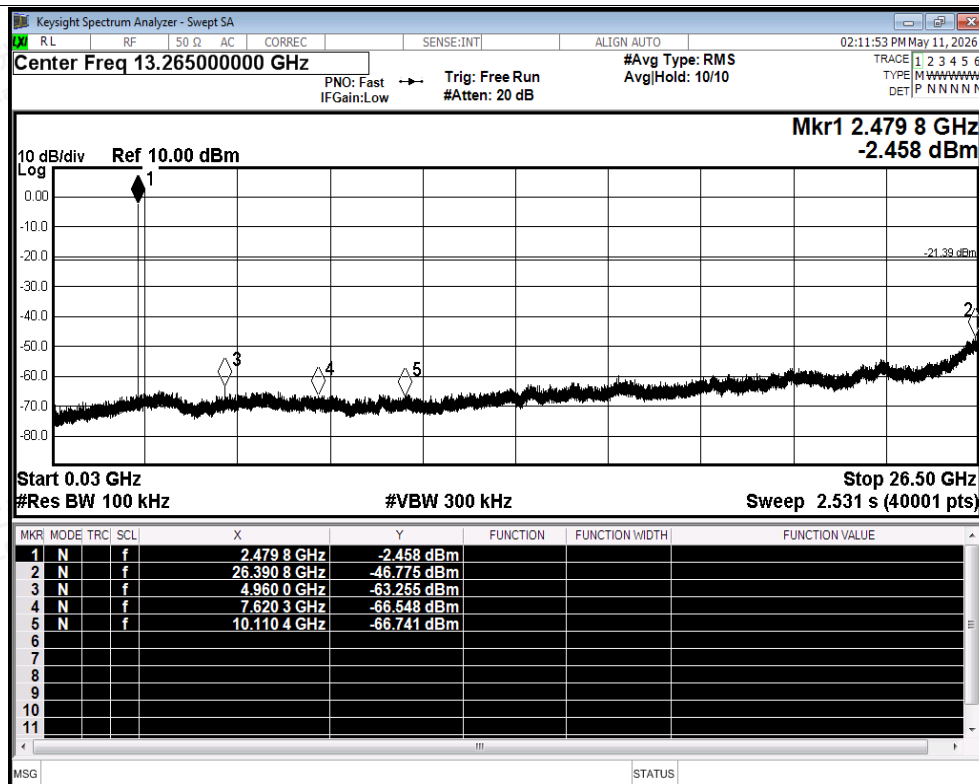


Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission



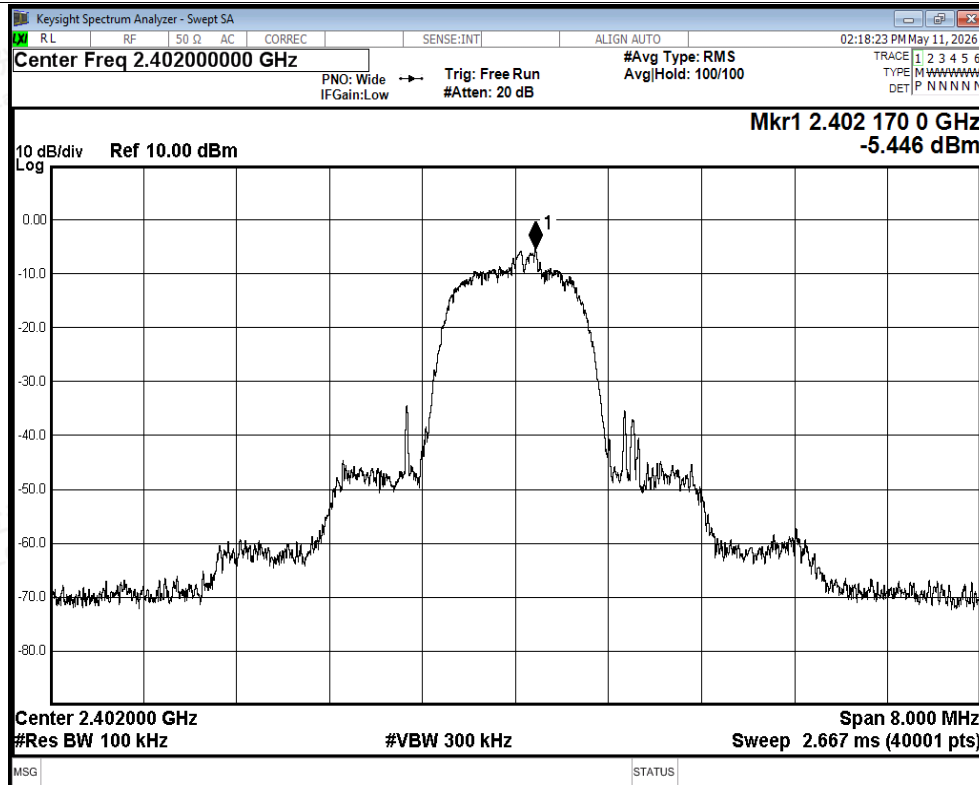


Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref

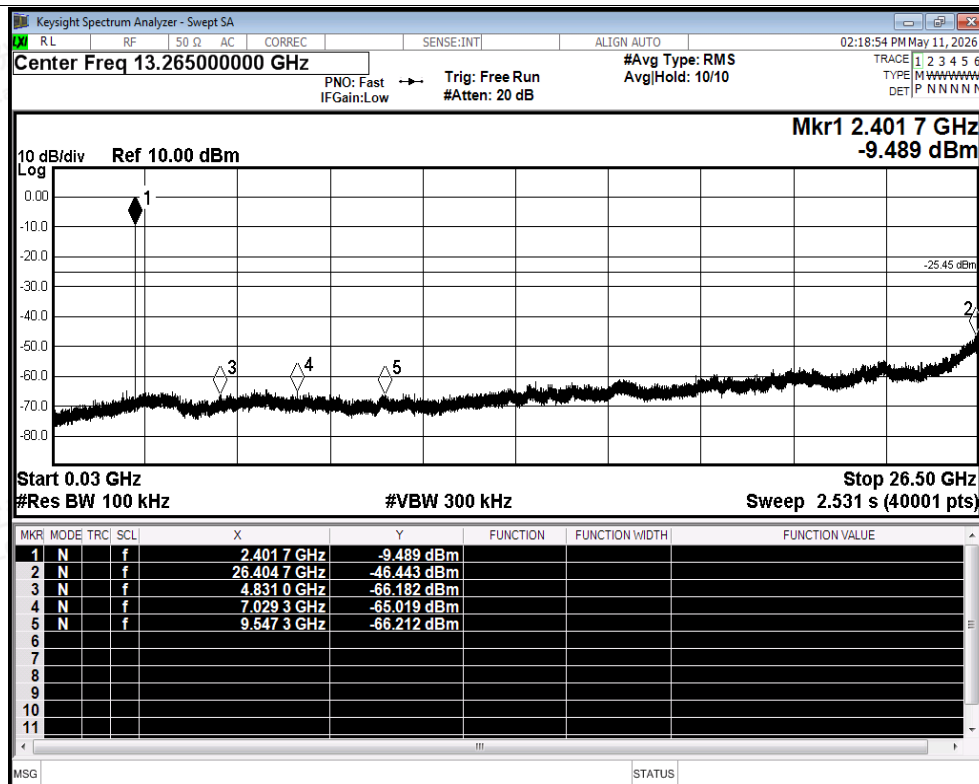


Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission



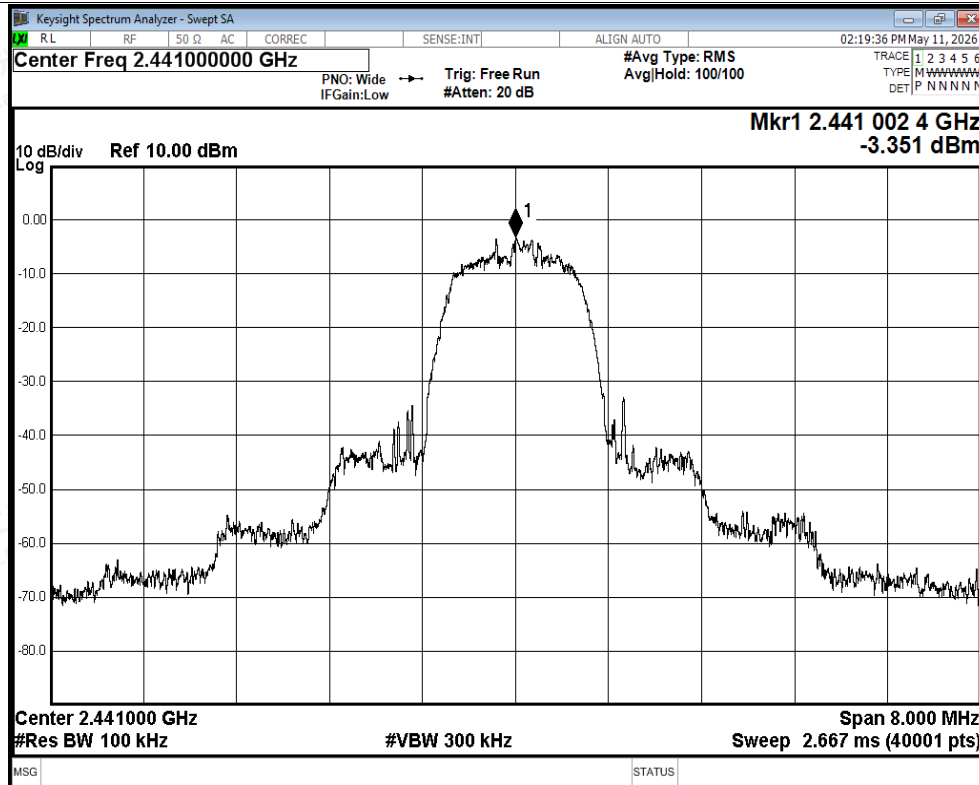


Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref

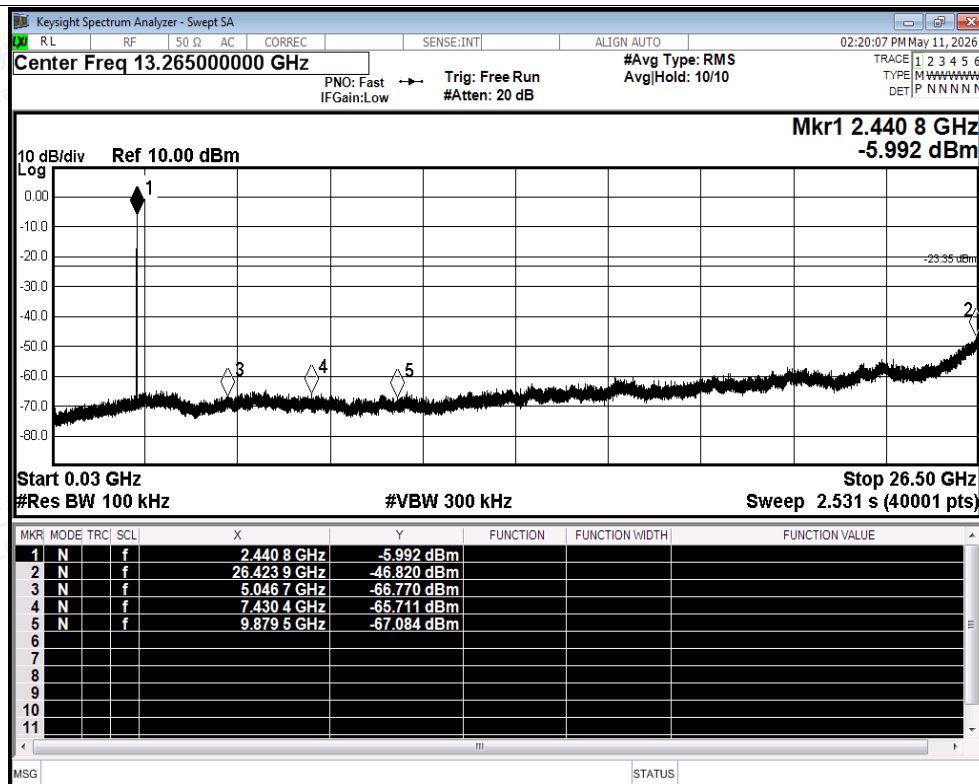


Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission



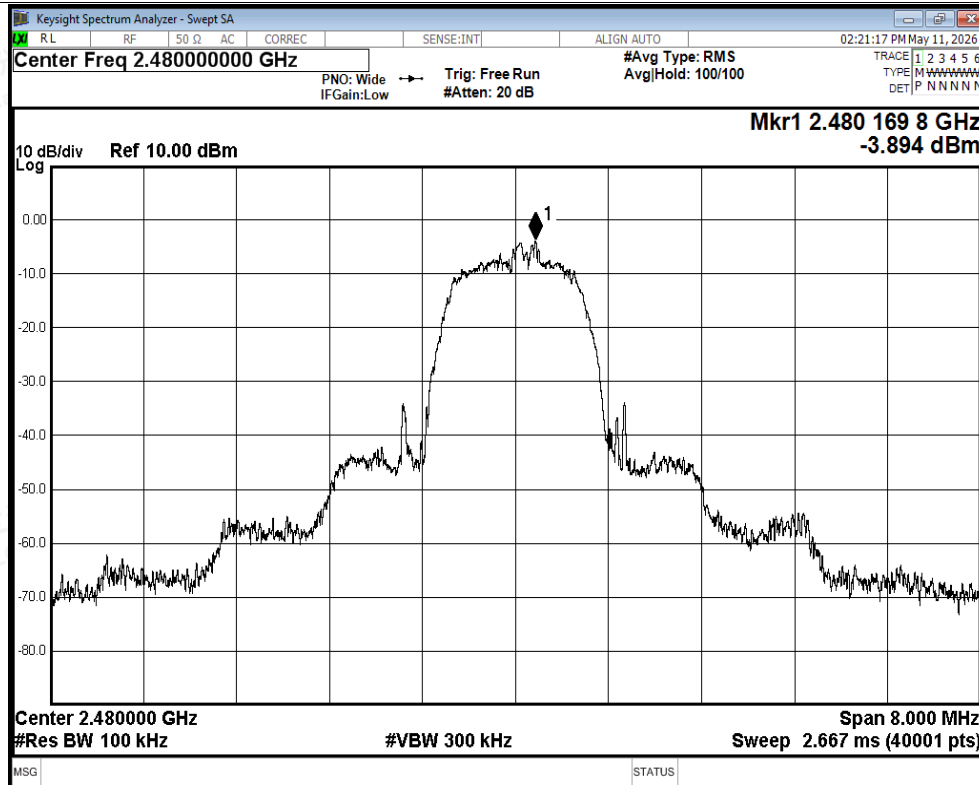


Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref

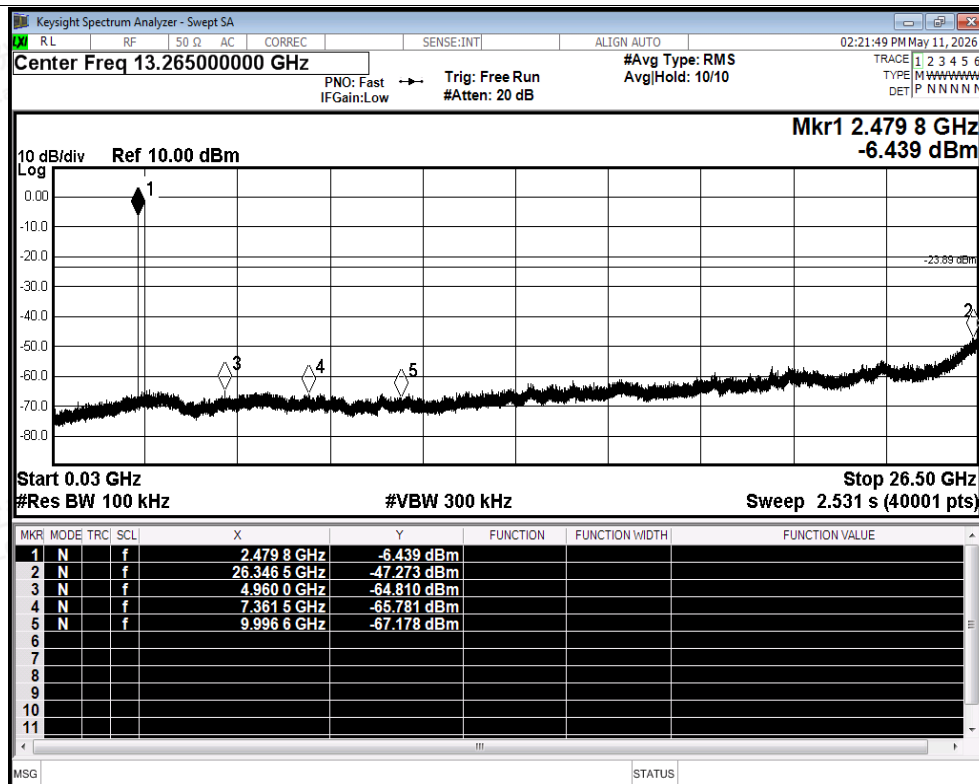


Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission



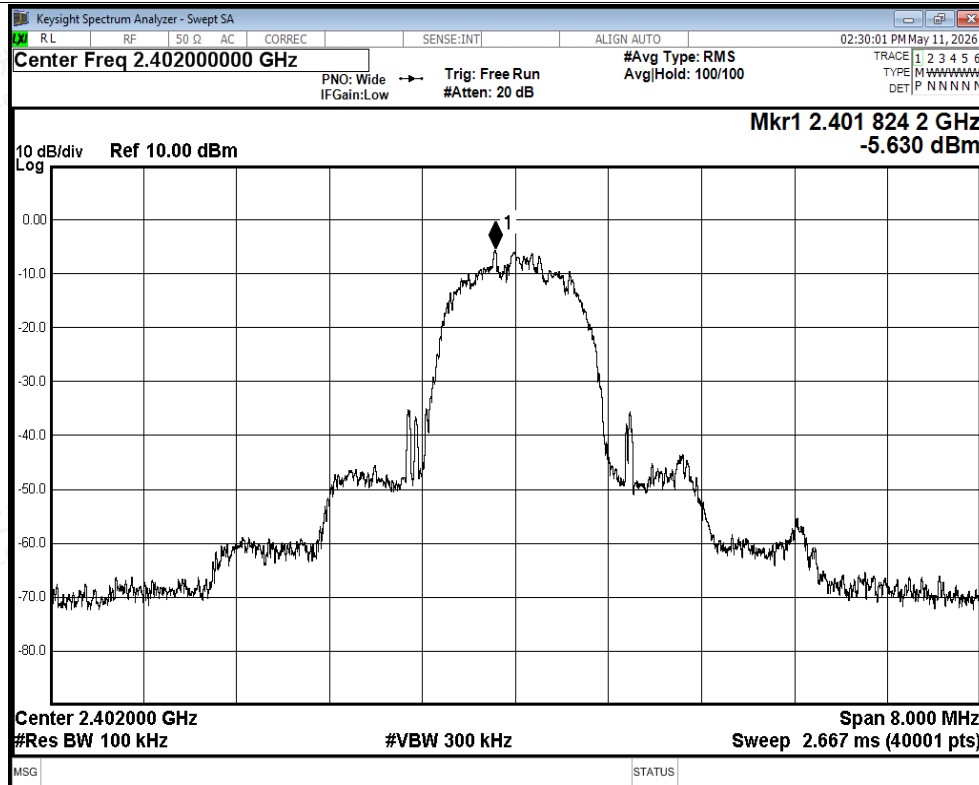


Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref

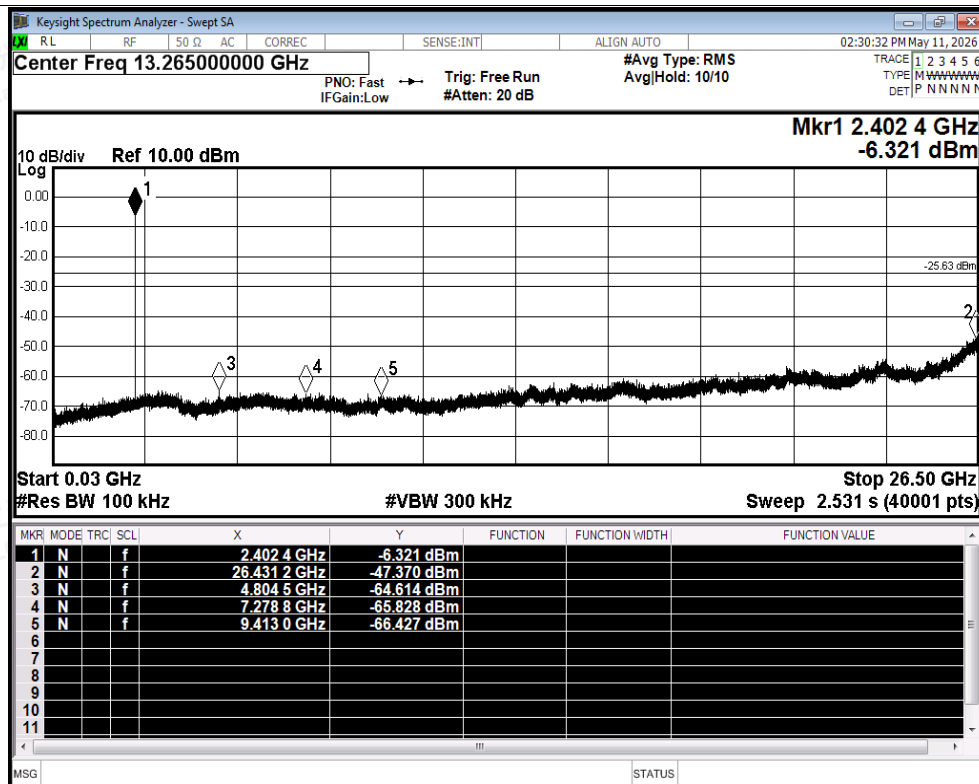


Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Emission



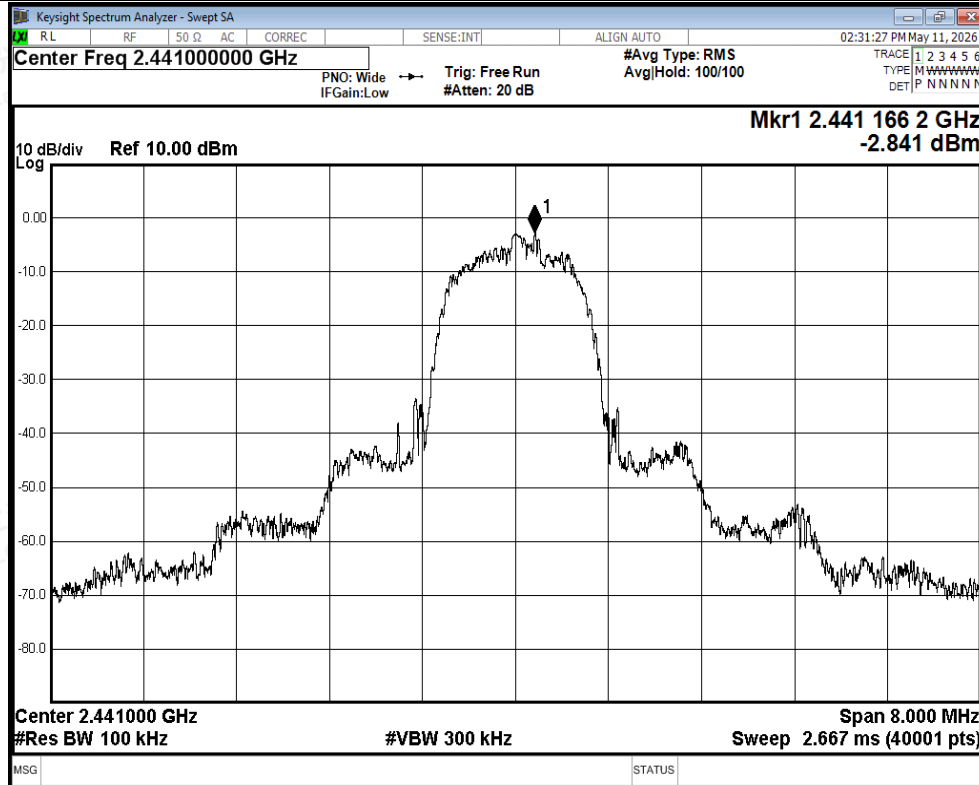


Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Ref

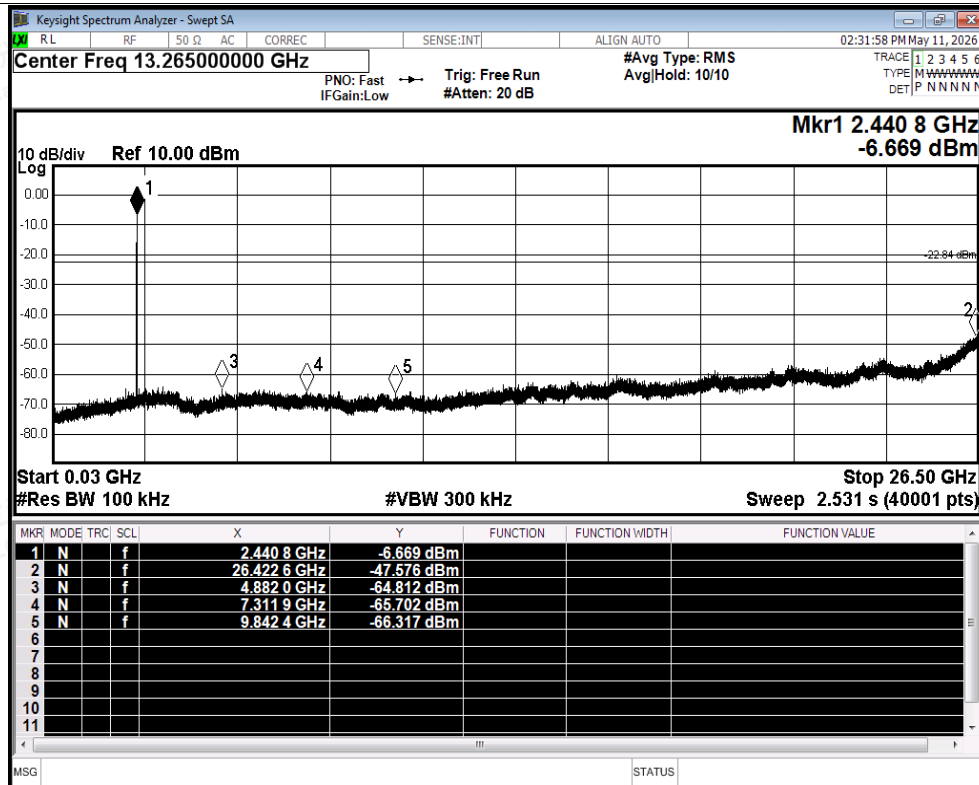


Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Emission



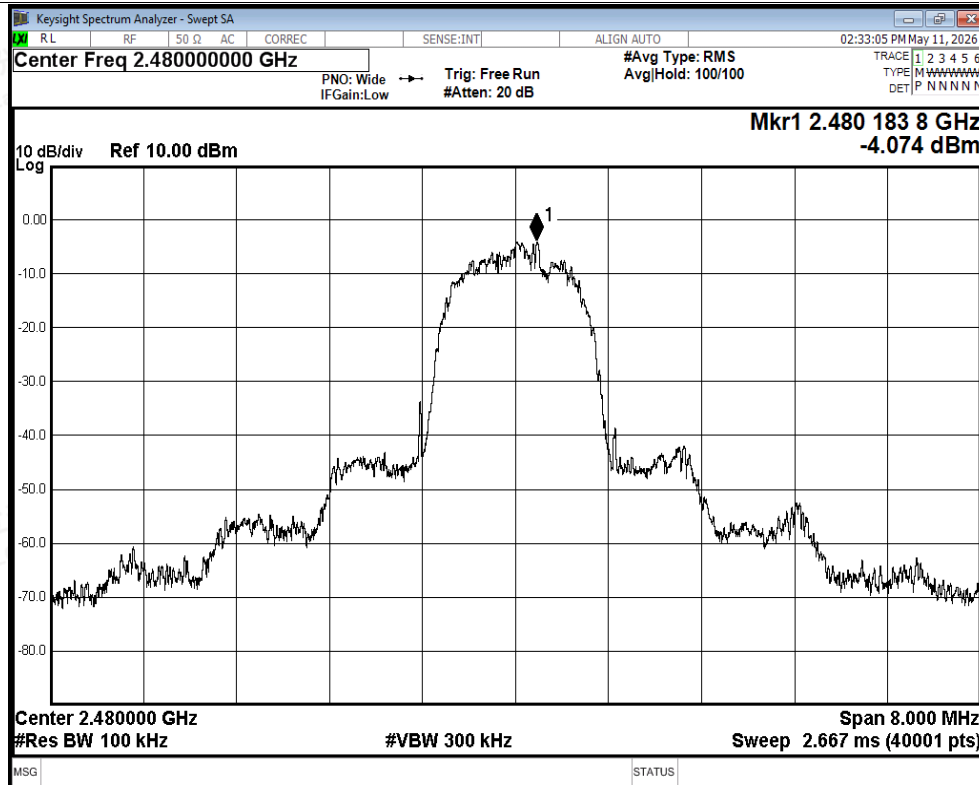


Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Ref

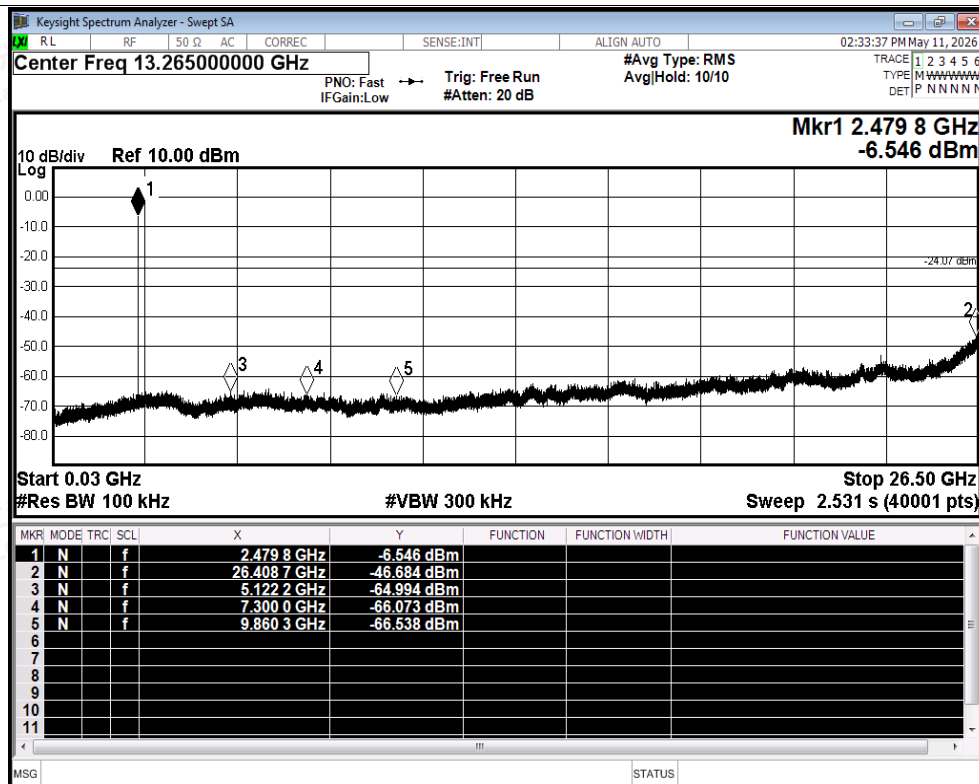


Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Emission





Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Emission

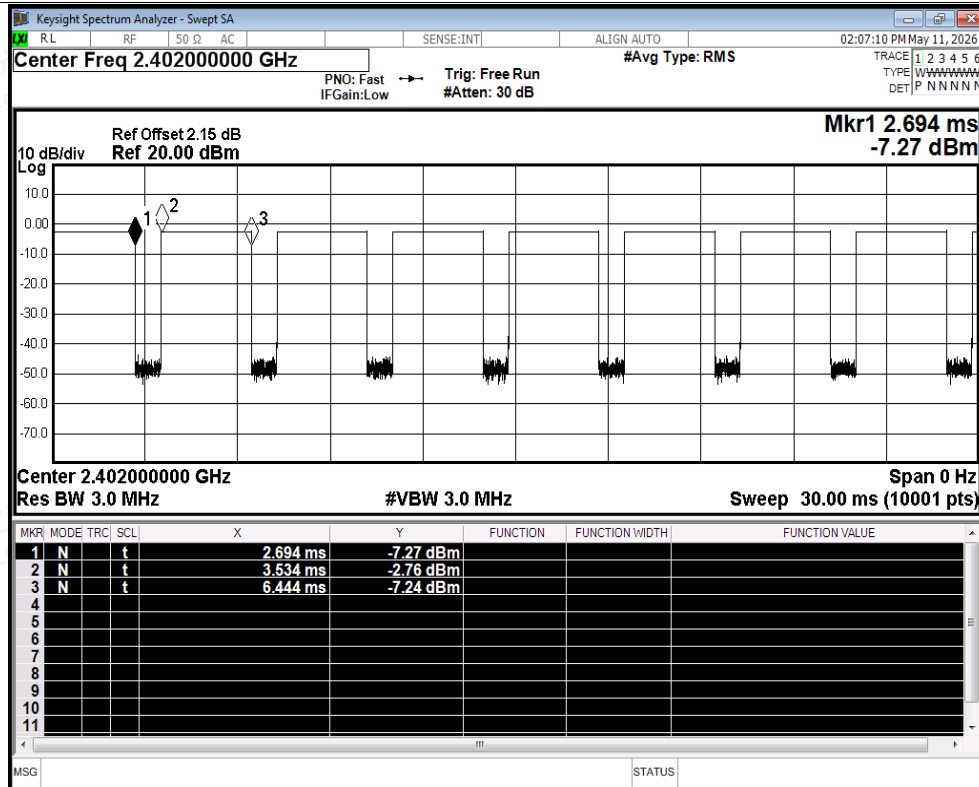




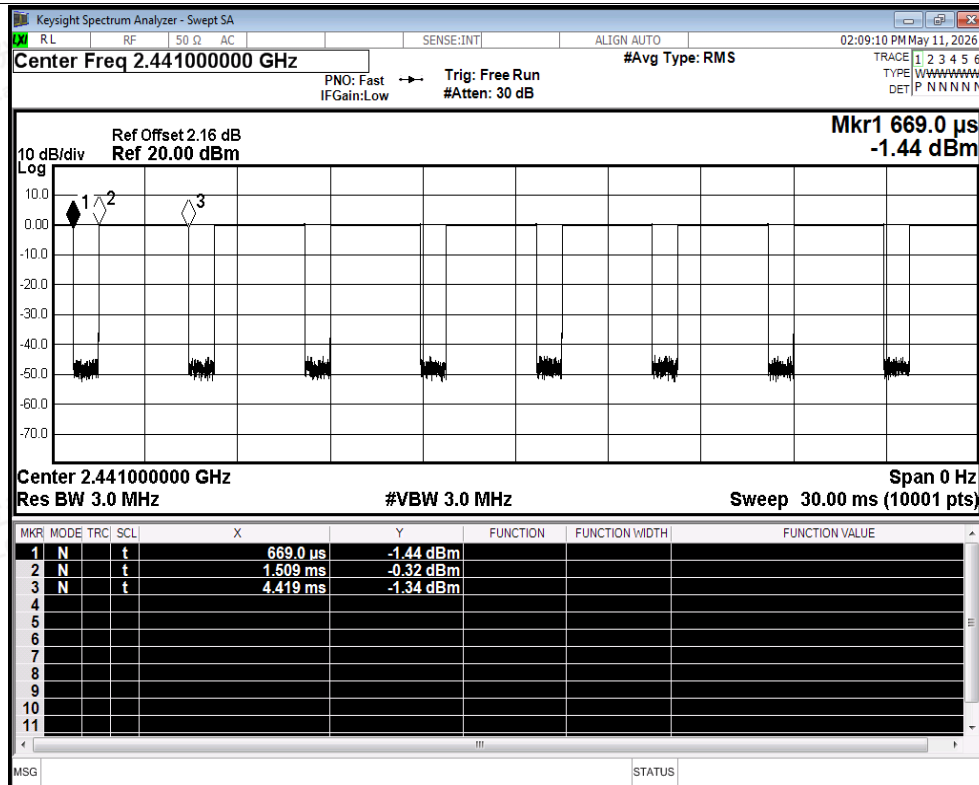
A.8 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	1-DH5	2402	Ant1	77.6	1.1	0.34
NVNT	1-DH5	2441	Ant1	77.6	1.1	0.34
NVNT	1-DH5	2480	Ant1	77.6	1.1	0.34
NVNT	2-DH5	2402	Ant1	77.28	1.12	0.35
NVNT	2-DH5	2441	Ant1	77.36	1.11	0.34
NVNT	2-DH5	2480	Ant1	77.28	1.12	0.35
NVNT	3-DH5	2402	Ant1	77.28	1.12	0.35
NVNT	3-DH5	2441	Ant1	77.28	1.12	0.35
NVNT	3-DH5	2480	Ant1	77.28	1.12	0.35



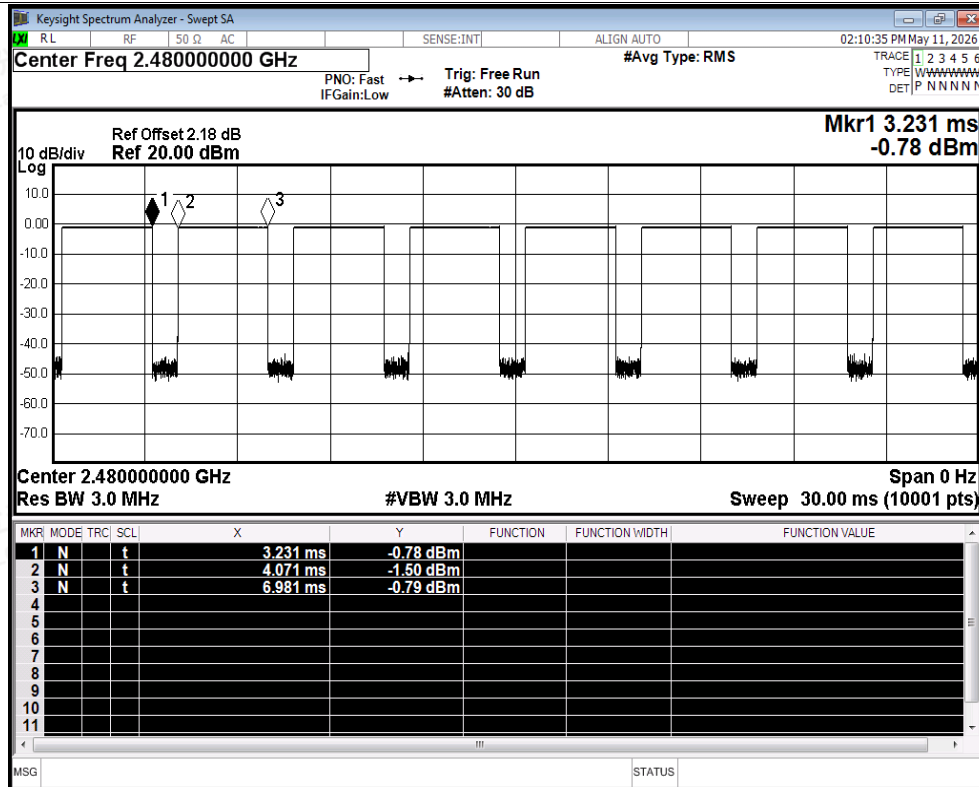


Duty Cycle NVNT 1-DH5 2402MHz Ant1

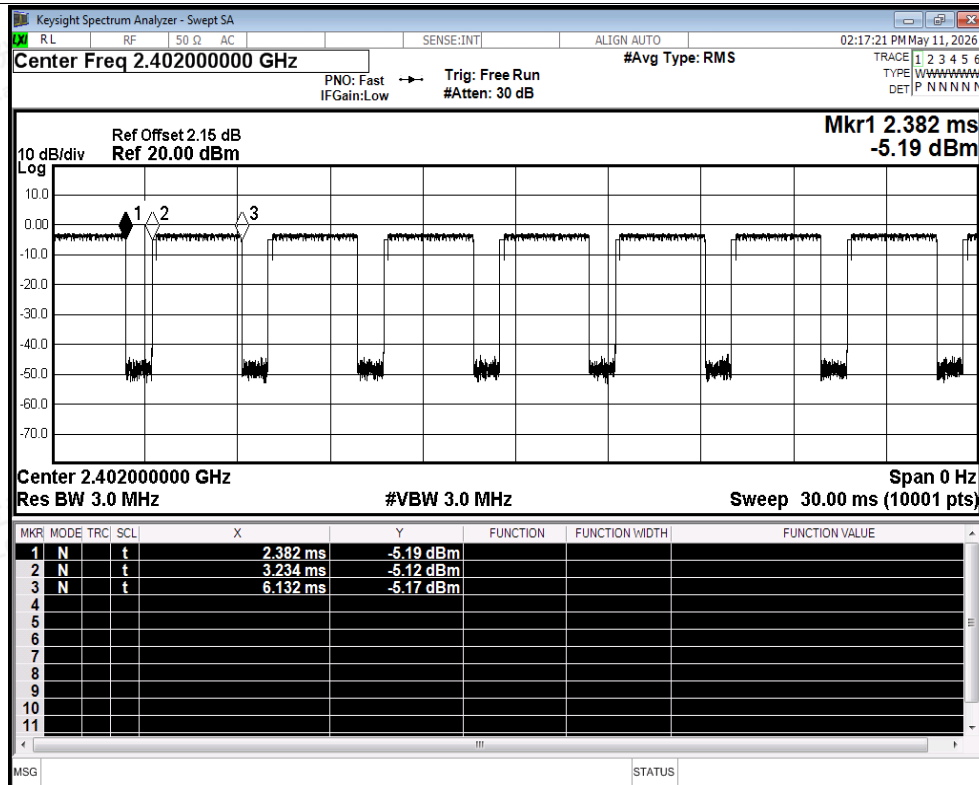


Duty Cycle NVNT 1-DH5 2441MHz Ant1



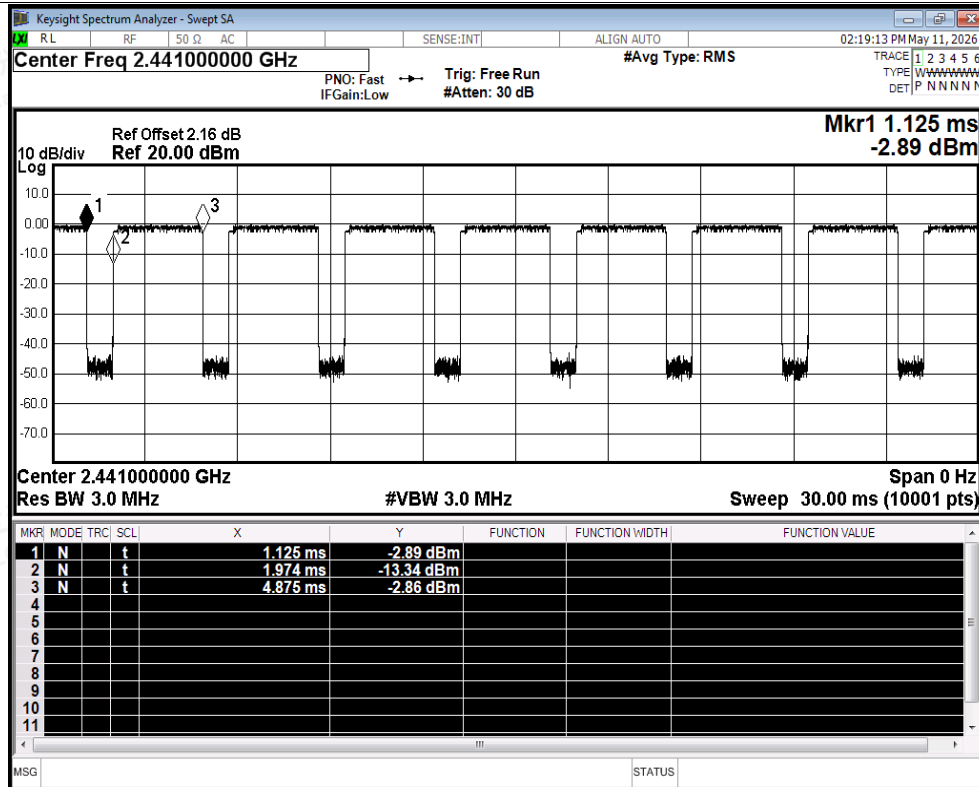


Duty Cycle NVNT 1-DH5 2480MHz Ant1

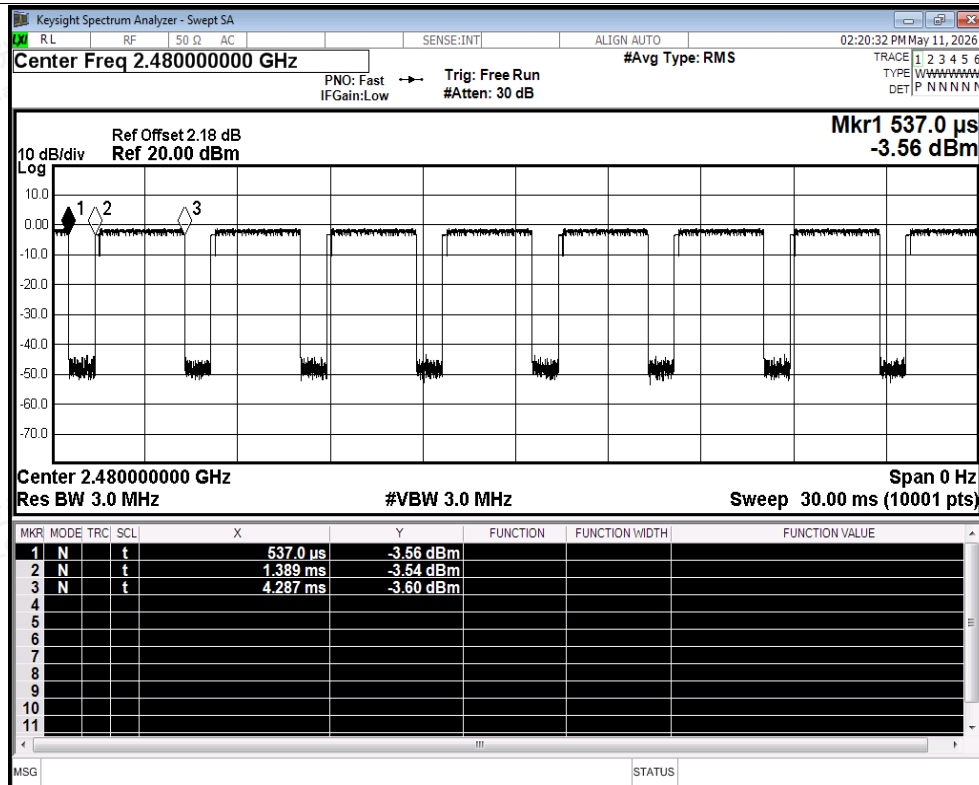


Duty Cycle NVNT 2-DH5 2402MHz Ant1



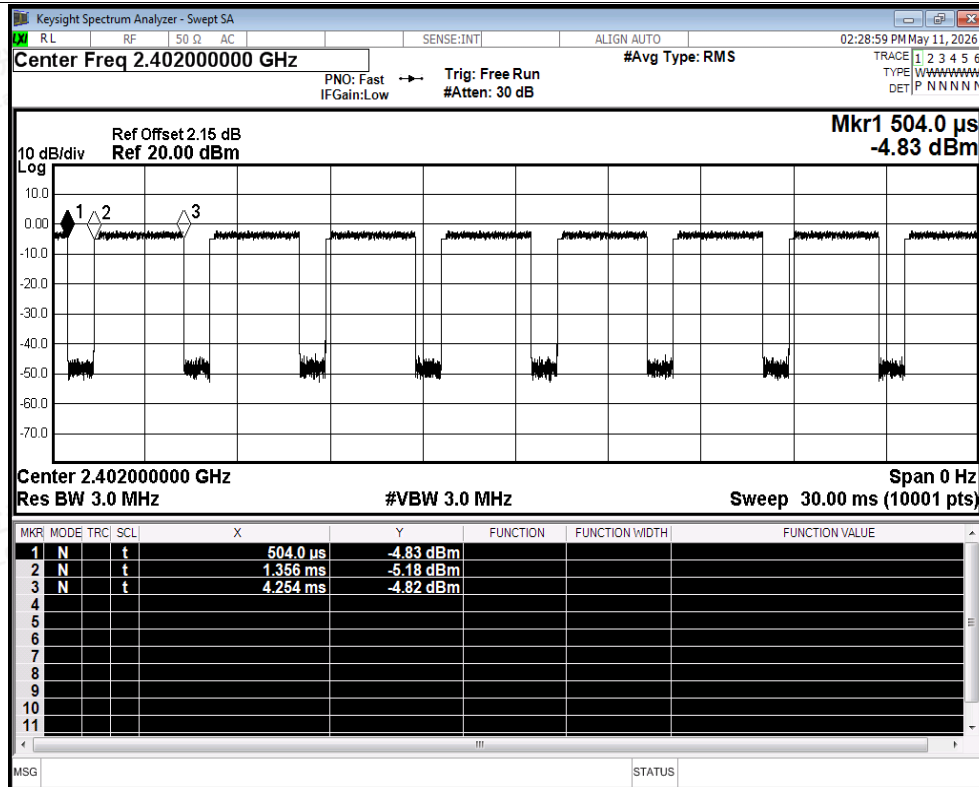


Duty Cycle NVNT 2-DH5 2441MHz Ant1

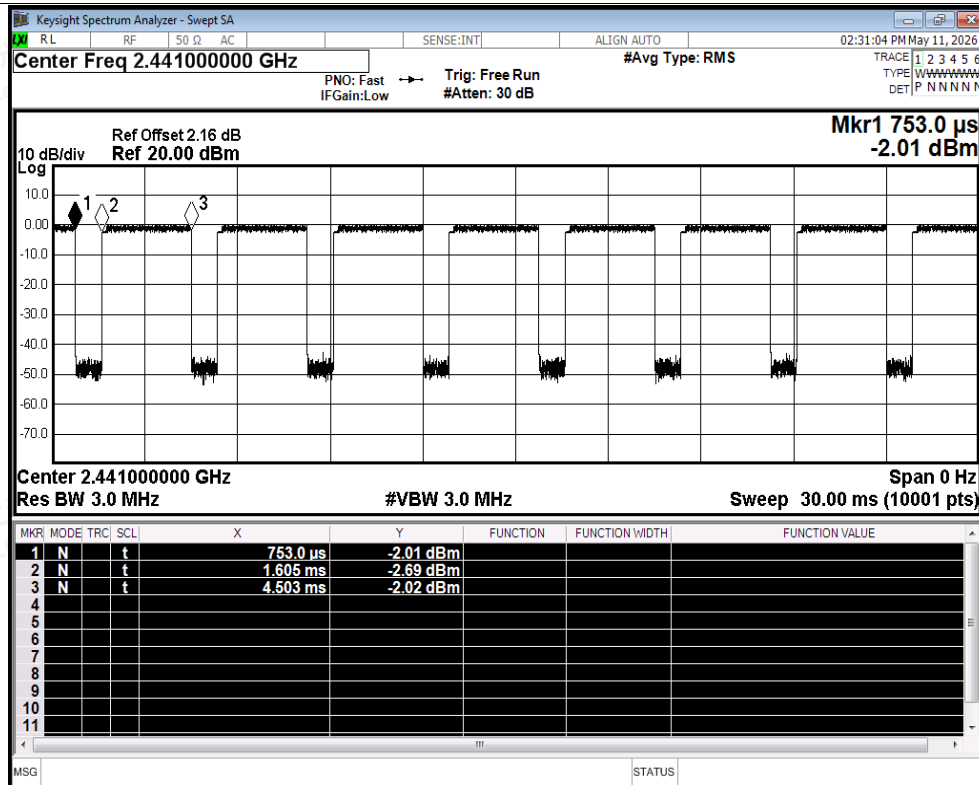


Duty Cycle NVNT 2-DH5 2480MHz Ant1



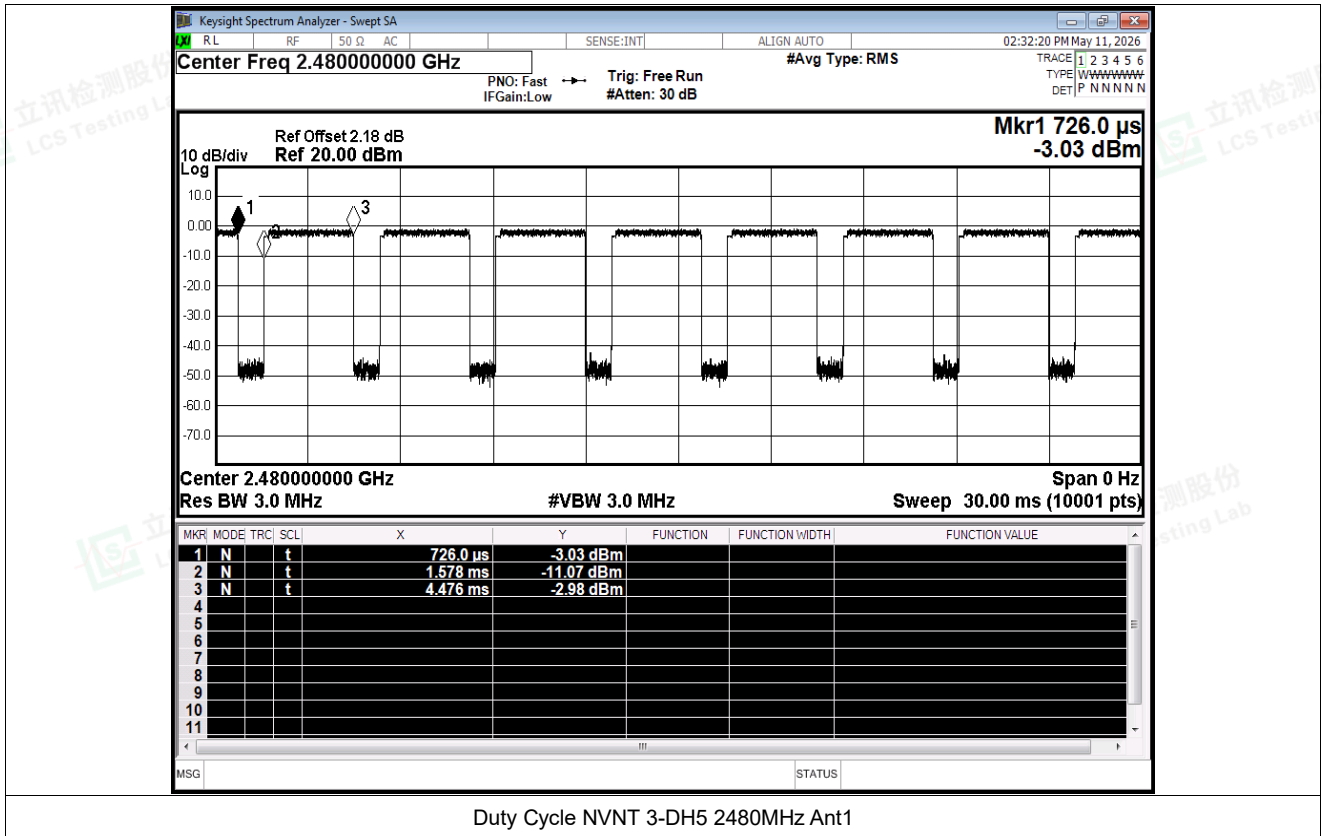


Duty Cycle NVNT 3-DH5 2402MHz Ant1



Duty Cycle NVNT 3-DH5 2441MHz Ant1



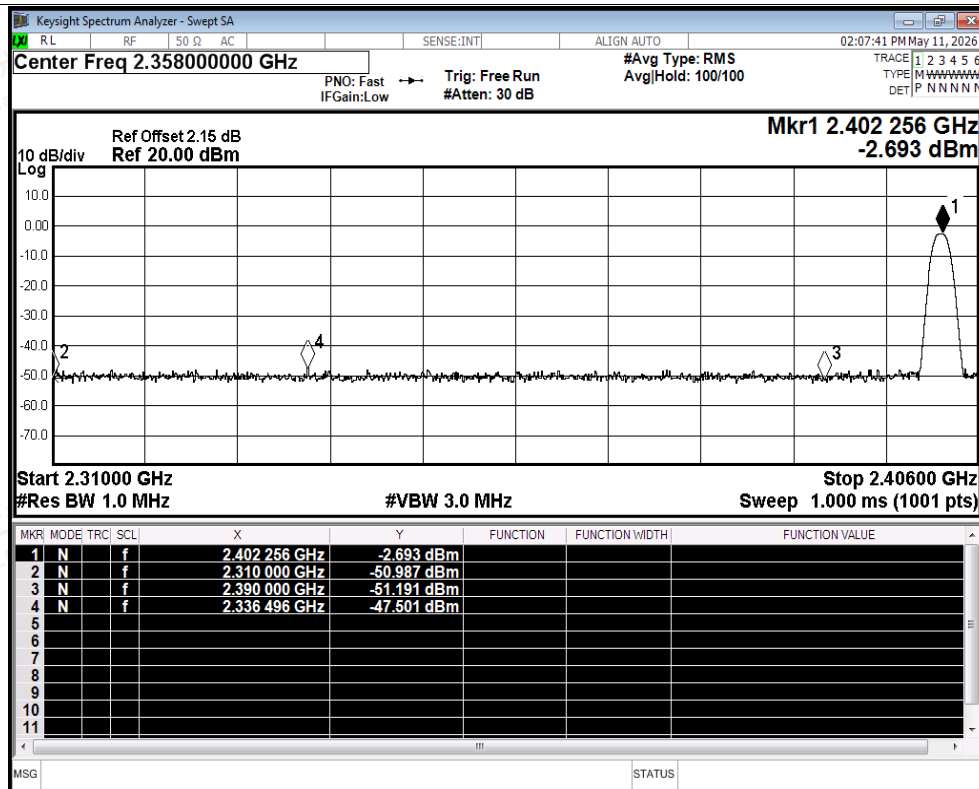




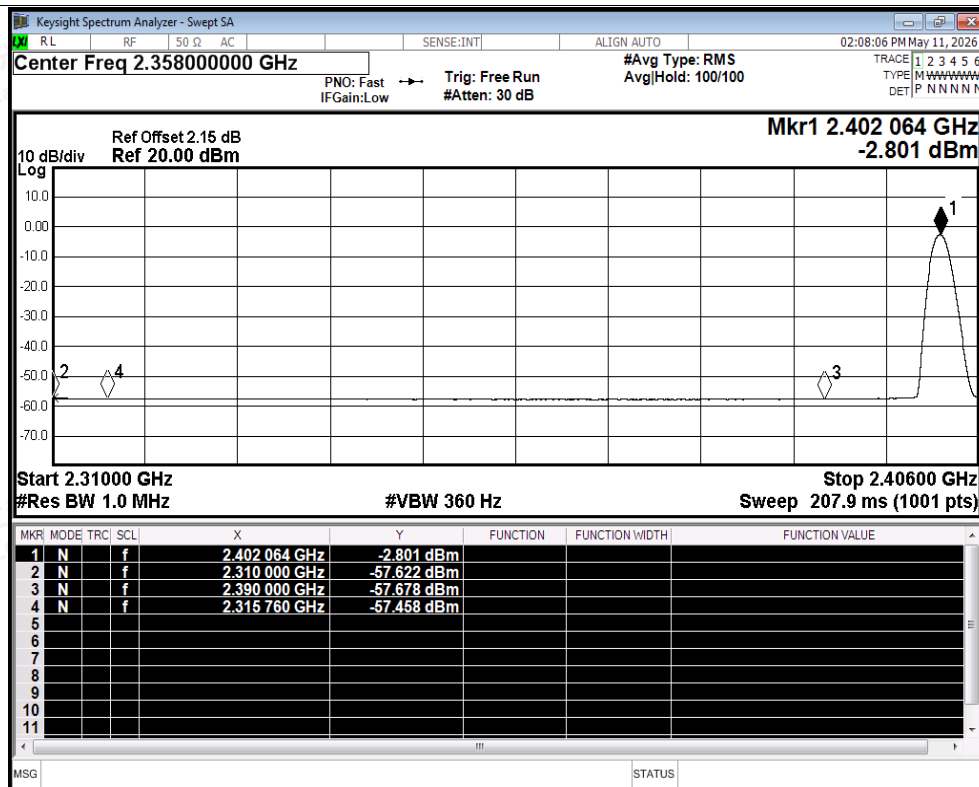
A.9 Restrict Band

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	-50.98	2	46.28	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-57.62	2	39.64	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2336.496	-47.5	2	49.76	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2315.76	-57.45	2	39.81	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-51.4	2	45.86	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-57.69	2	39.57	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-49.97	2	47.29	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-56.25	2	41.01	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2489.44	-47.37	2	49.89	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.512	-56.25	2	41.01	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-51.49	2	45.77	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-57.47	2	39.79	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-49.38	2	47.88	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-57.57	2	39.69	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2341.392	-47.52	2	49.74	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2314.512	-57.42	2	39.84	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-50.47	2	46.79	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-57.63	2	39.63	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-50.11	2	47.15	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-55.79	2	41.47	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2486.2	-47.6	2	49.66	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.512	-55.79	2	41.47	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-50.43	2	46.83	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-57.33	2	39.93	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-51.25	2	46.01	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-57.45	2	39.81	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2332.272	-47.96	2	49.3	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2320.368	-57.39	2	39.87	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-50.82	2	46.44	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-57.54	2	39.72	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-50.12	2	47.14	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-55.83	2	41.43	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.632	-46.12	2	51.14	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.512	-55.83	2	41.43	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-48.2	2	49.06	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-57.36	2	39.9	Average	54	Pass



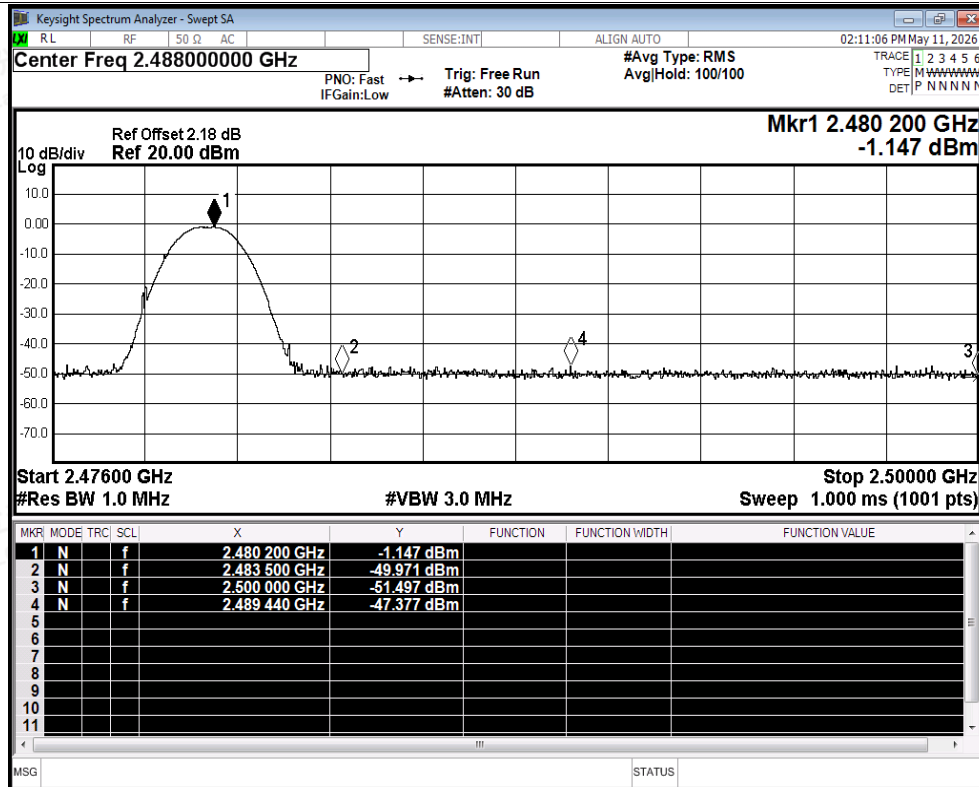


Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Peak

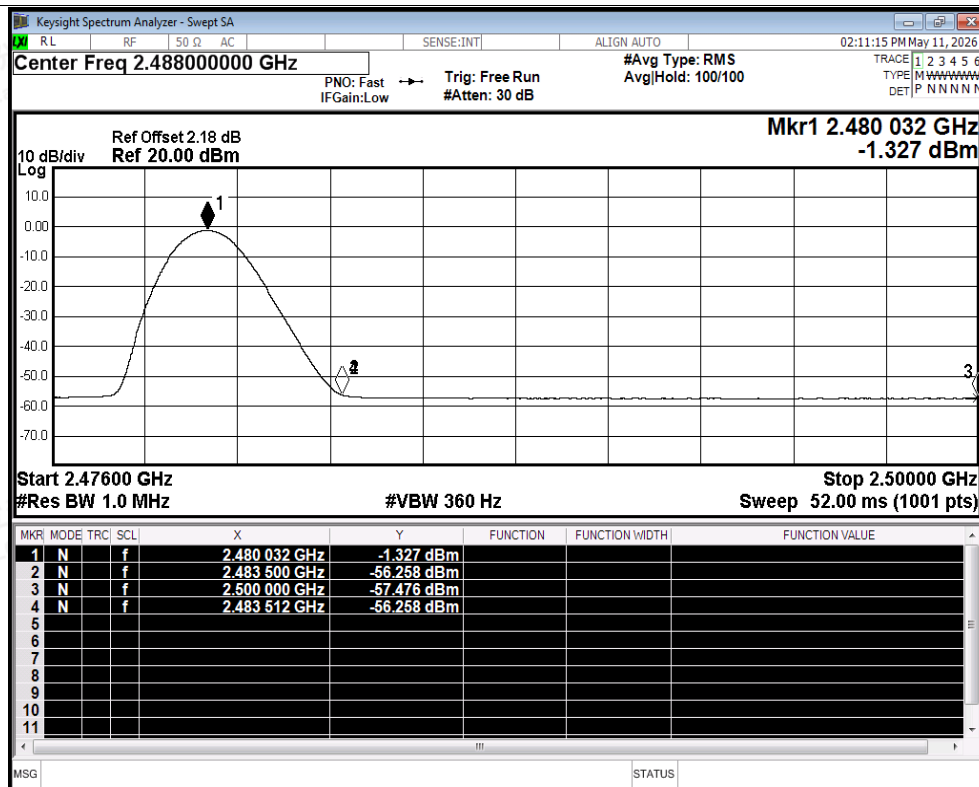


Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Average



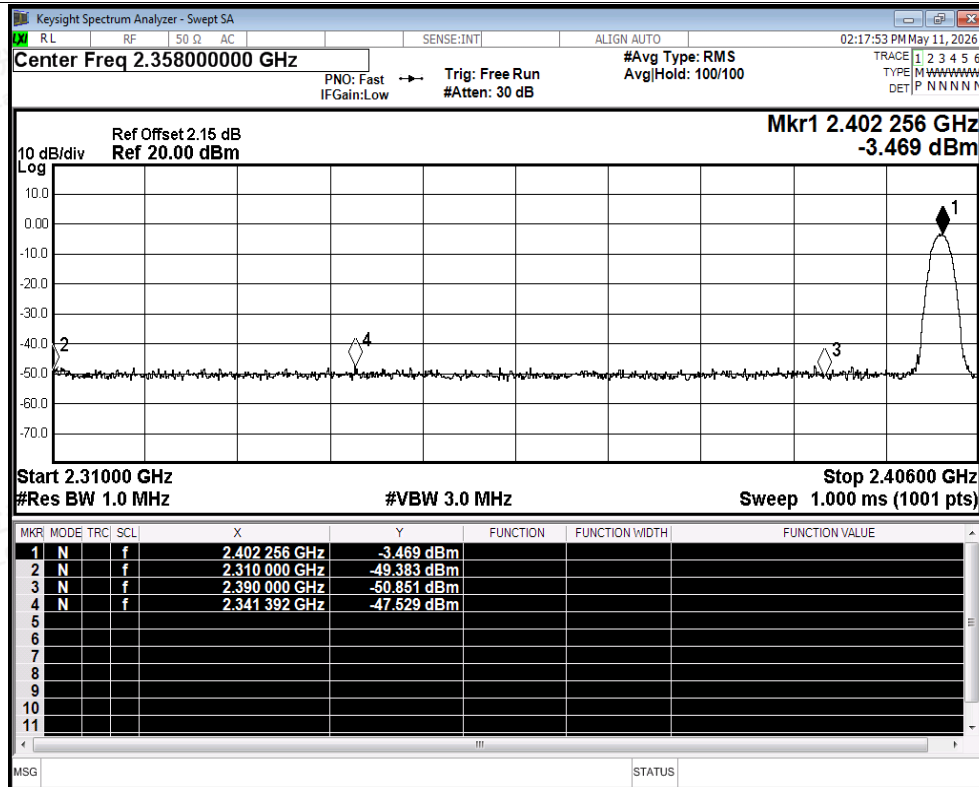


Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Peak

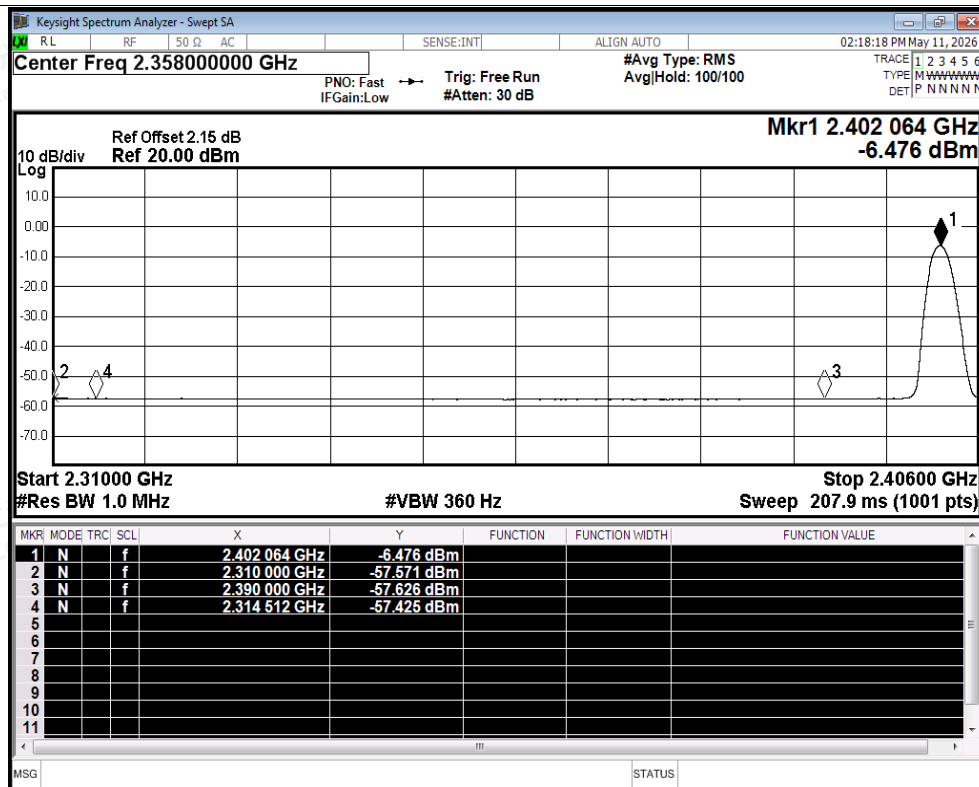


Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Average



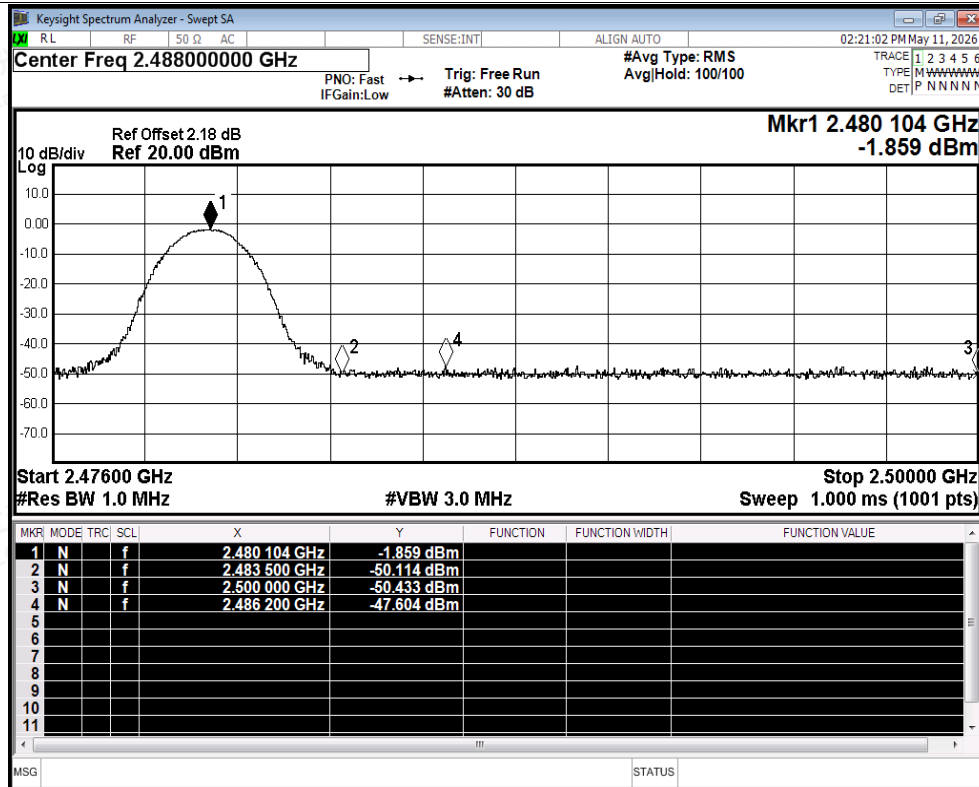


Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Peak

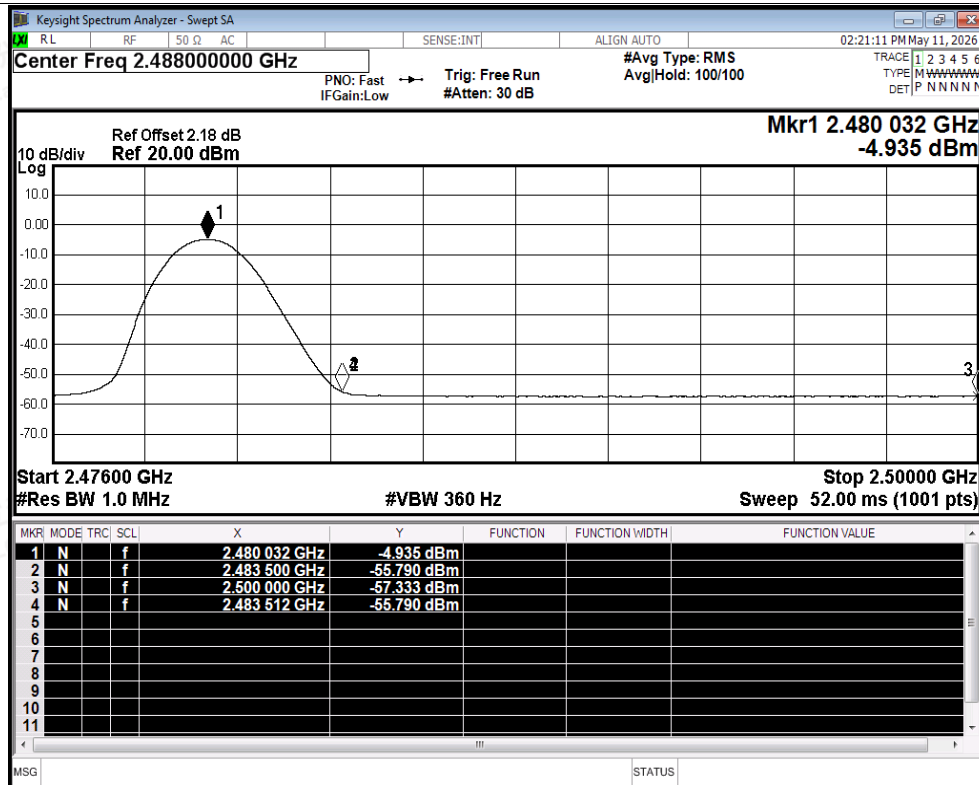


Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Average



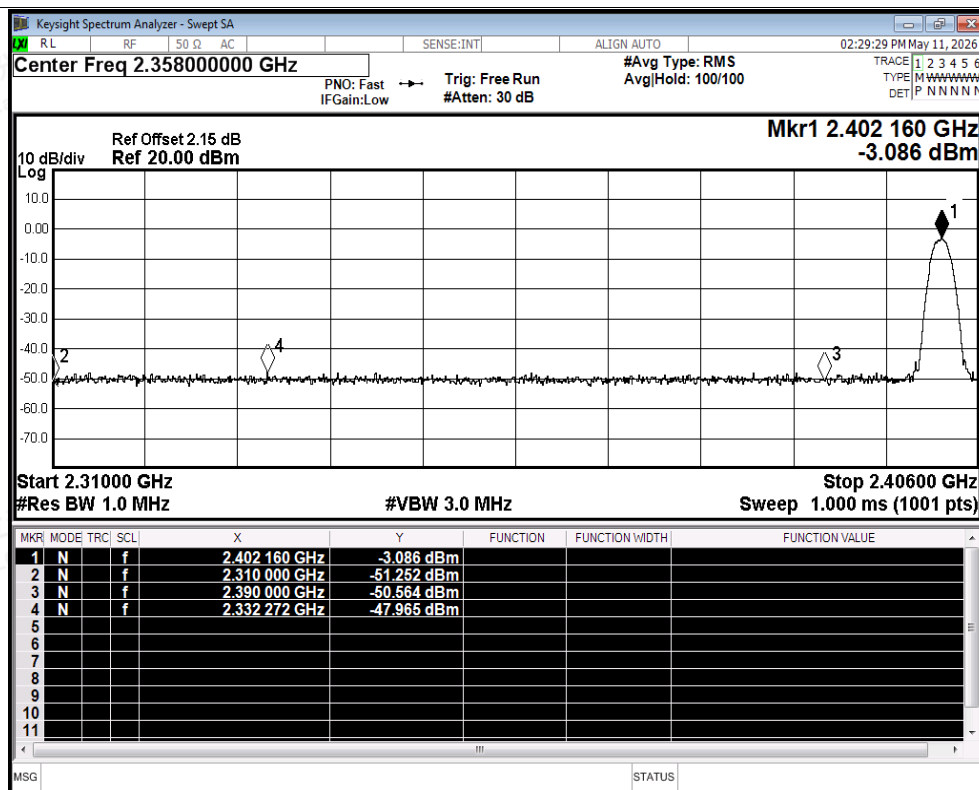


Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Peak

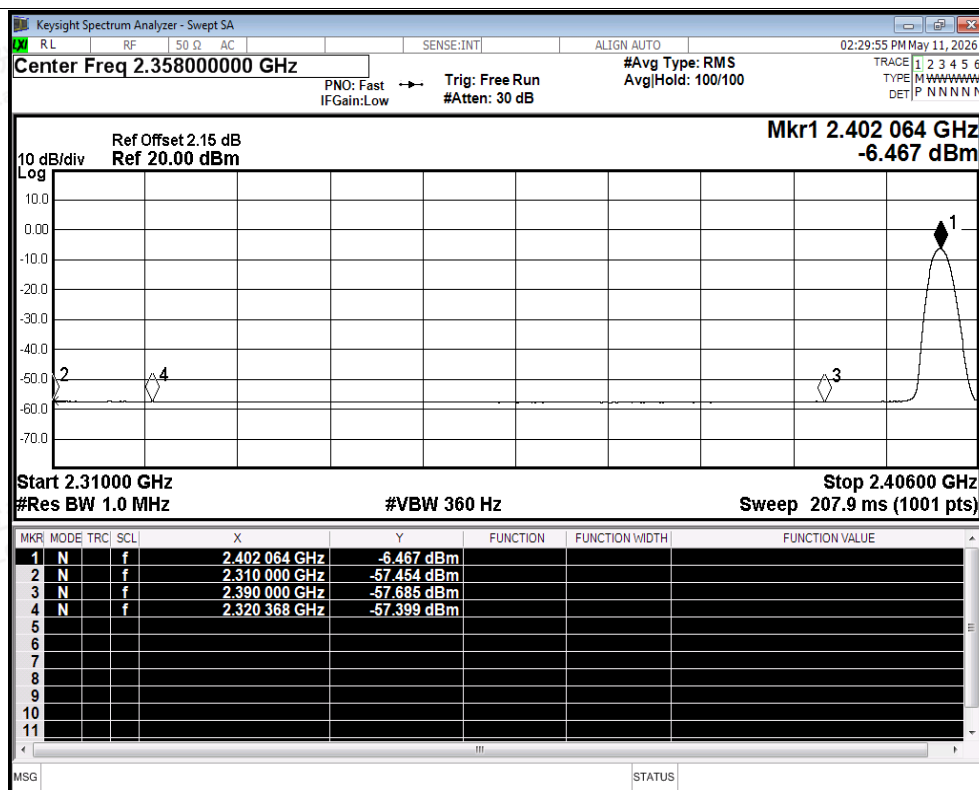


Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Average



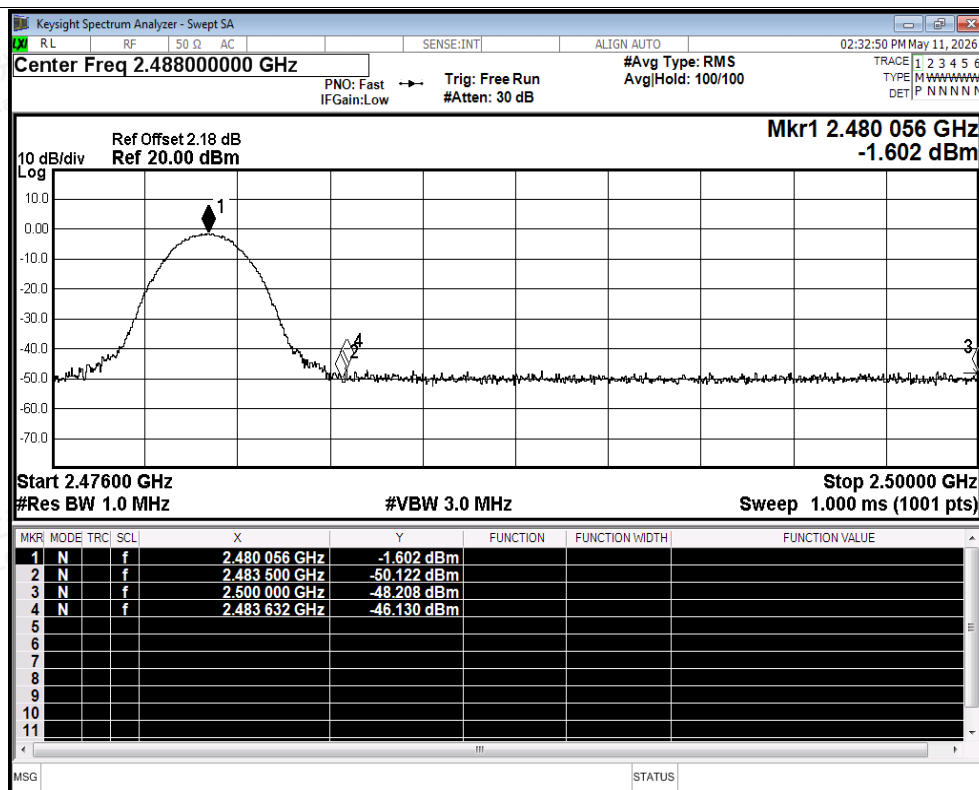


Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Peak

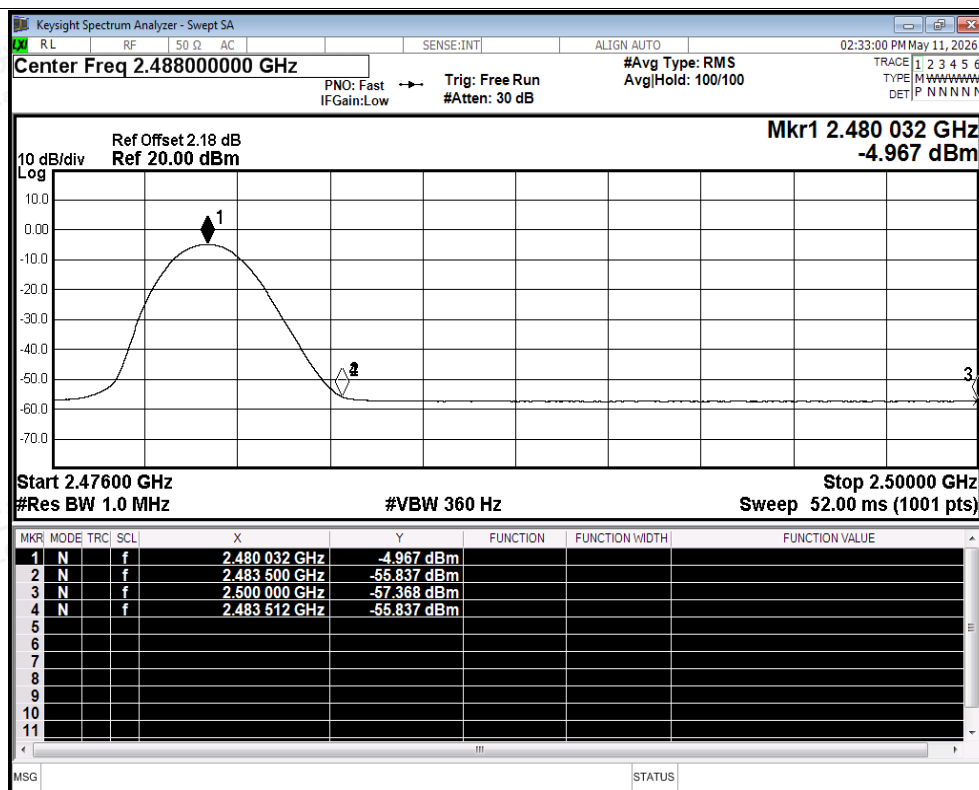


Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Average





Restrict Band NVNT 3-DH5 2480MHz Ant1 No-Hopping Peak



Restrict Band NVNT 3-DH5 2480MHz Ant1 No-Hopping Average

