



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: FBX864K

Test Model: FBX864K

Environmental Conditions

Temperature:	23.8 °C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Paddi Chen
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	Ant1	0.97	N/A	Pass
NVNT	1-DH5	2441	Ant1	1.008	N/A	Pass
NVNT	1-DH5	2480	Ant1	1.03	N/A	Pass
NVNT	2-DH5	2402	Ant1	1.286	N/A	Pass
NVNT	2-DH5	2441	Ant1	1.29	N/A	Pass
NVNT	2-DH5	2480	Ant1	1.287	N/A	Pass
NVNT	3-DH5	2402	Ant1	1.3	N/A	Pass
NVNT	3-DH5	2441	Ant1	1.294	N/A	Pass
NVNT	3-DH5	2480	Ant1	1.275	N/A	Pass



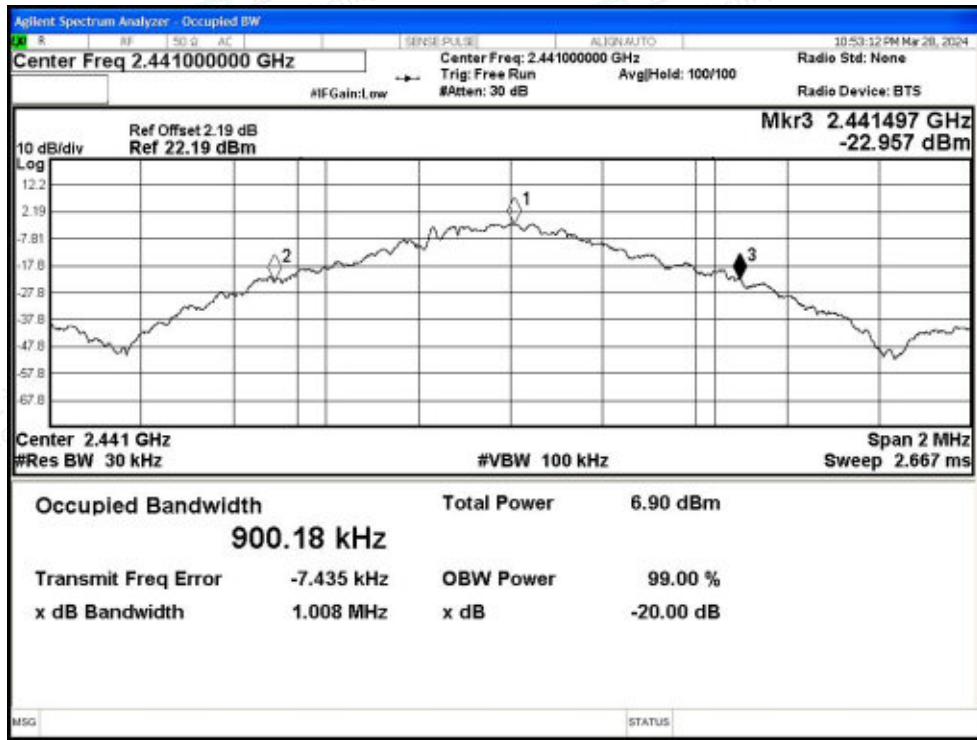


Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1

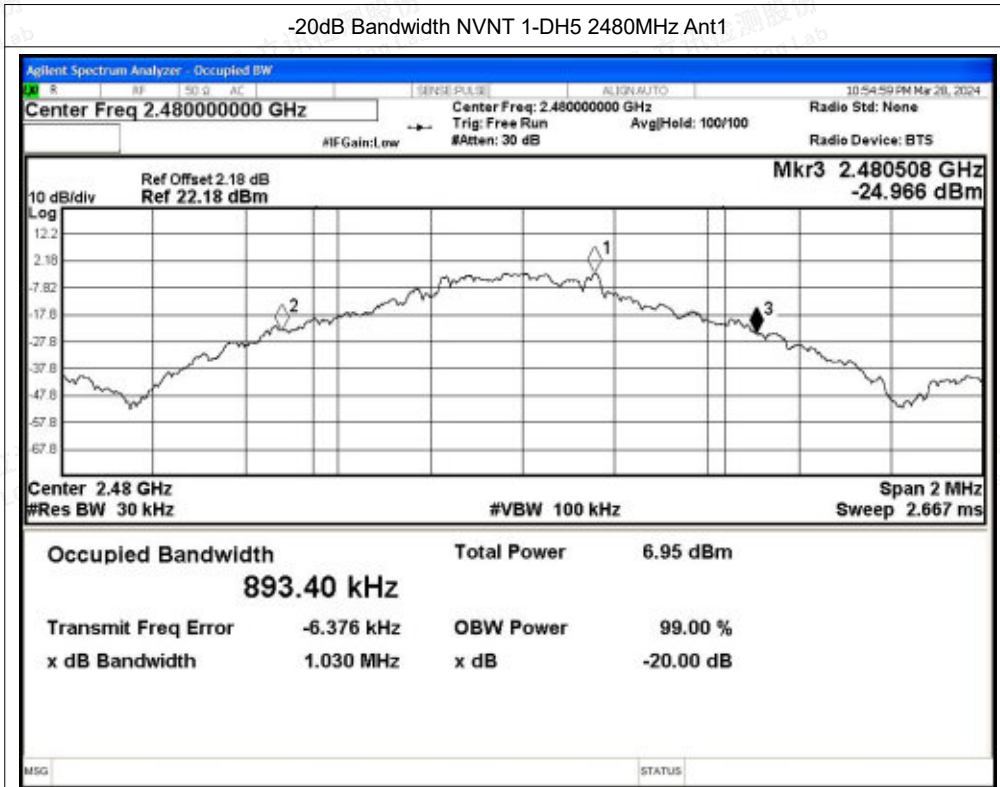


-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1

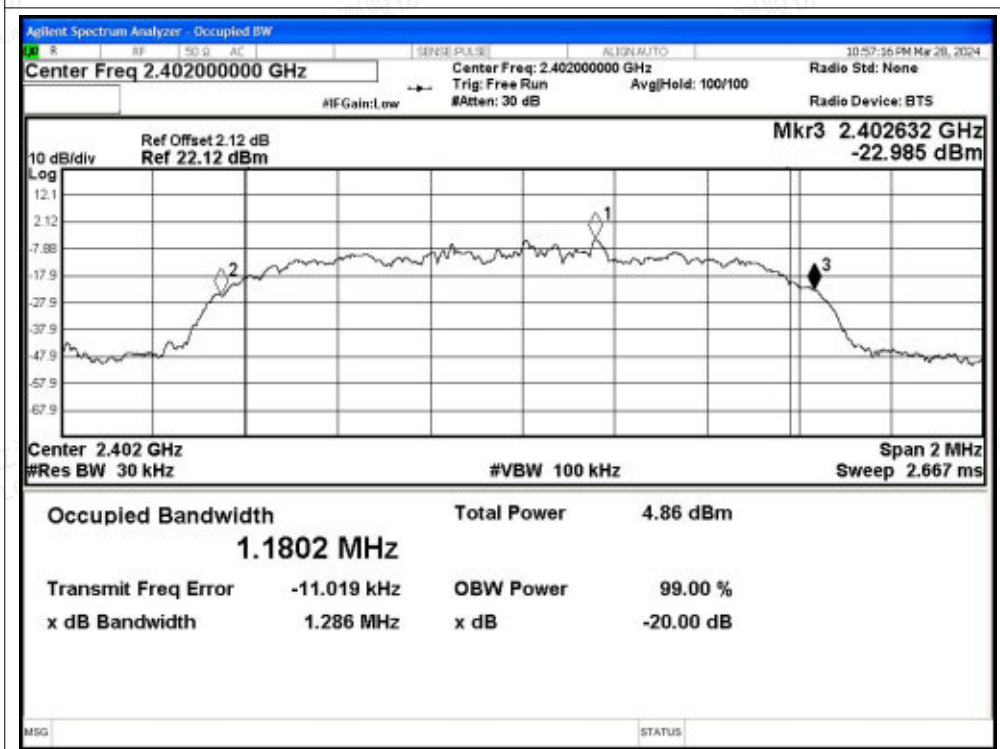




-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1

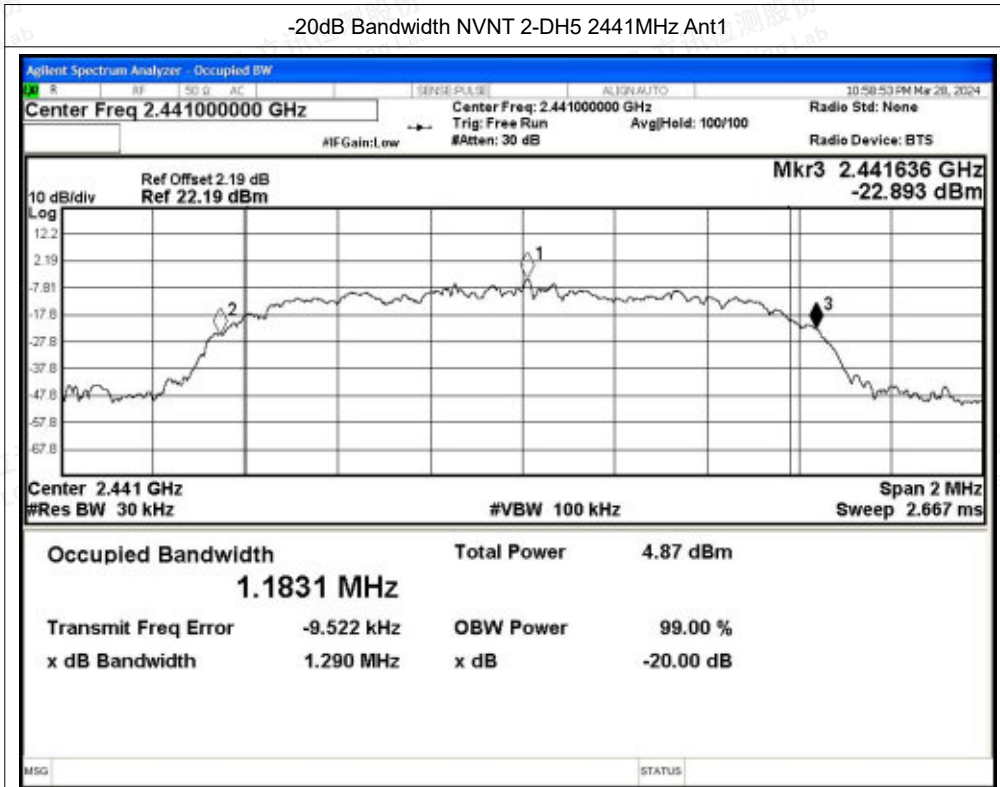


-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1

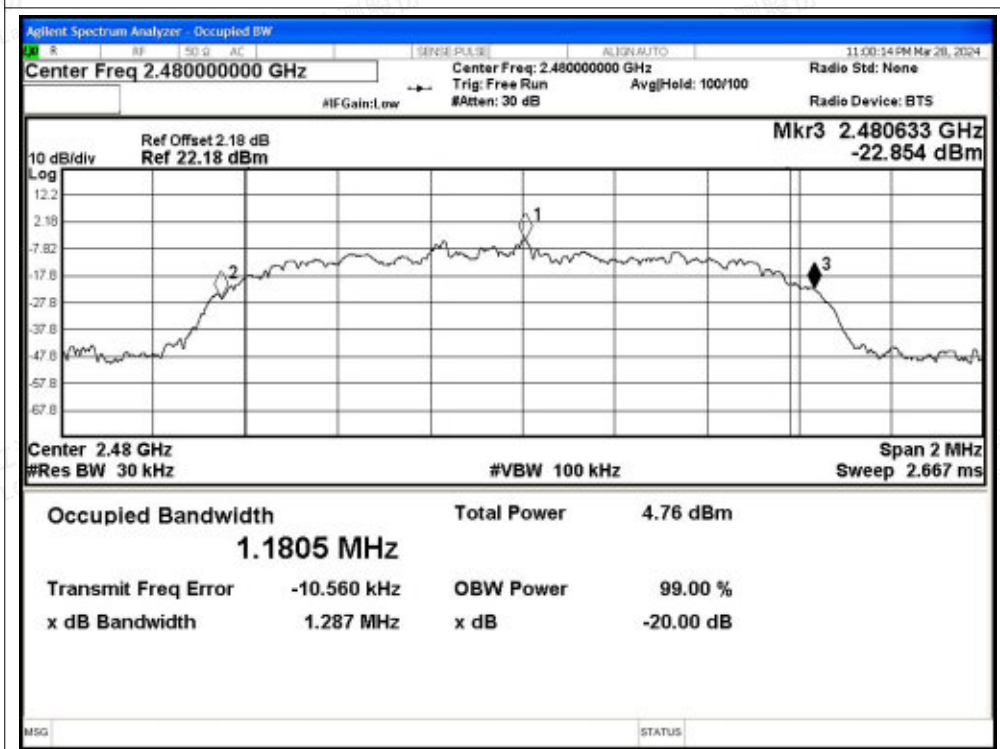




-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1

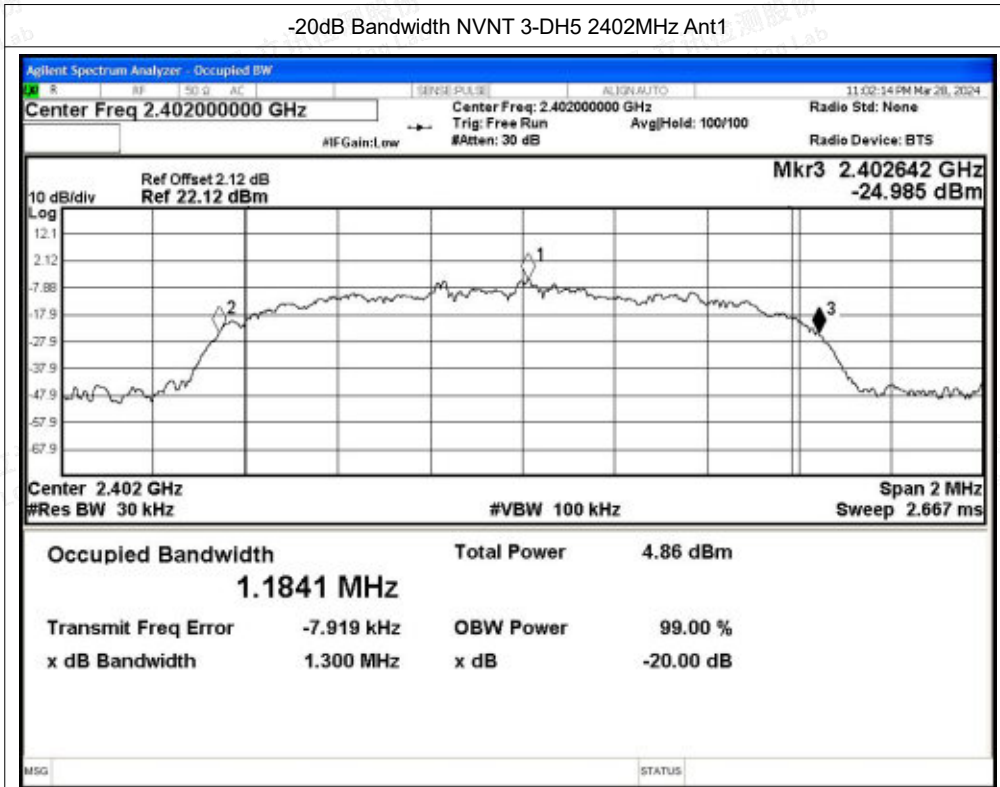


-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1

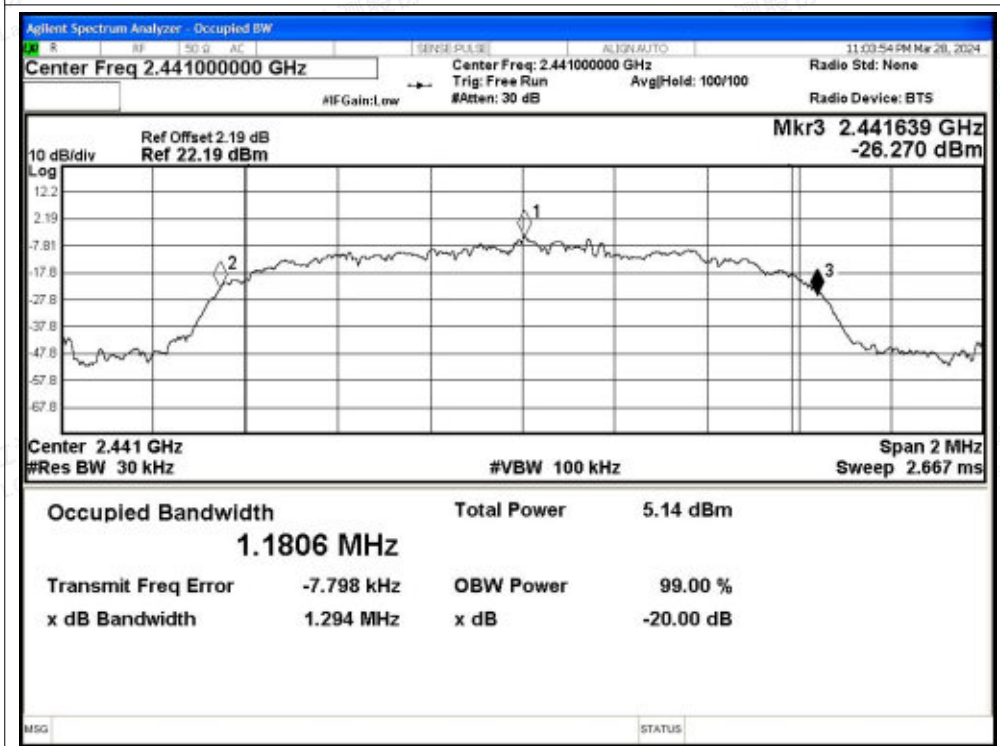




-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1

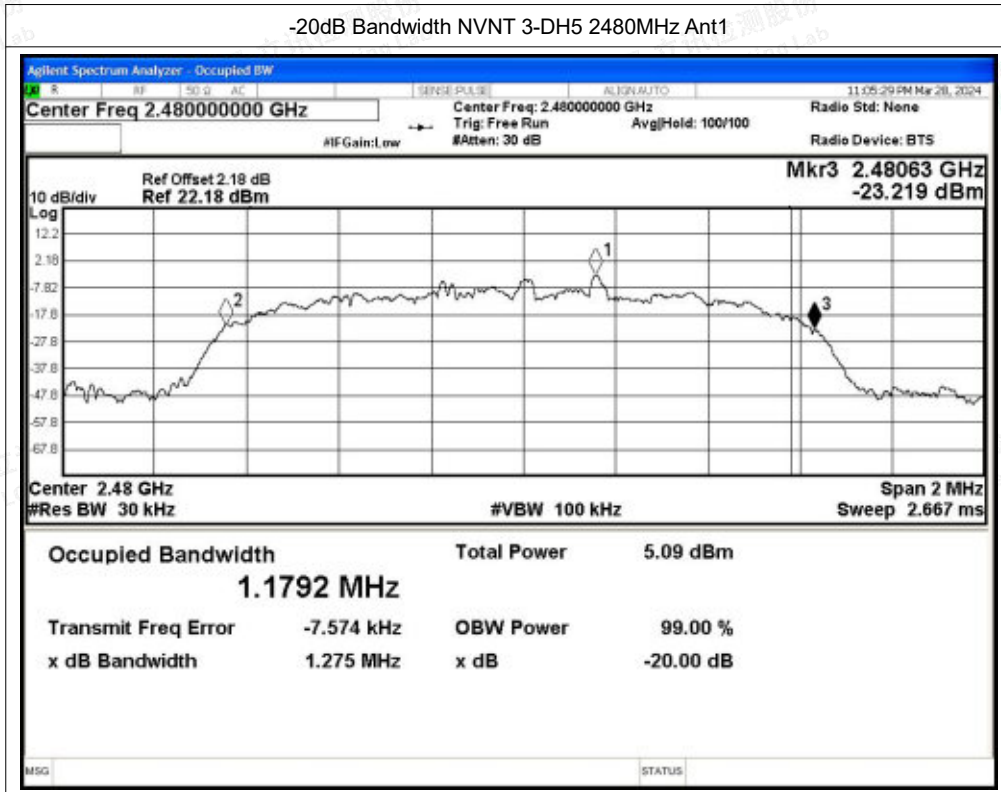


-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1





-20dB Bandwidth NVNT 3-DH5 2480MHz Ant1





A.2 Maximum Conducted Output Power

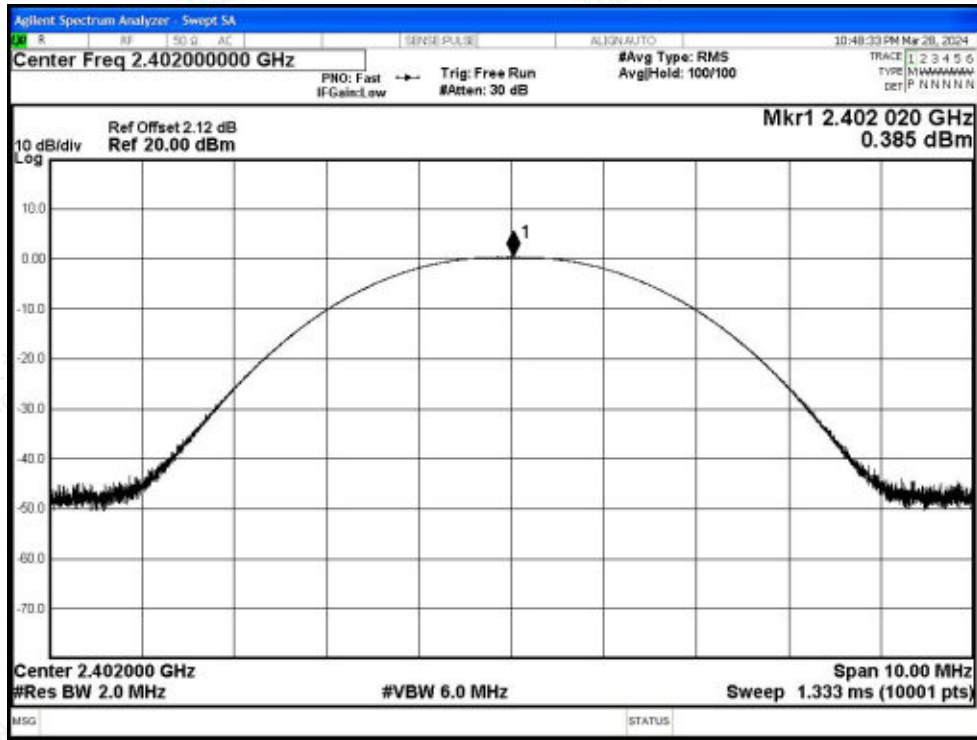
Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	0.39	21	Pass
NVNT	1-DH5	2441	Ant1	0.71	21	Pass
NVNT	1-DH5	2480	Ant1	0.43	21	Pass
NVNT	2-DH5	2402	Ant1	0.16	21	Pass
NVNT	2-DH5	2441	Ant1	0.44	21	Pass
NVNT	2-DH5	2480	Ant1	0.29	21	Pass
NVNT	3-DH5	2402	Ant1	0.25	21	Pass
NVNT	3-DH5	2441	Ant1	0.55	21	Pass
NVNT	3-DH5	2480	Ant1	0.36	21	Pass



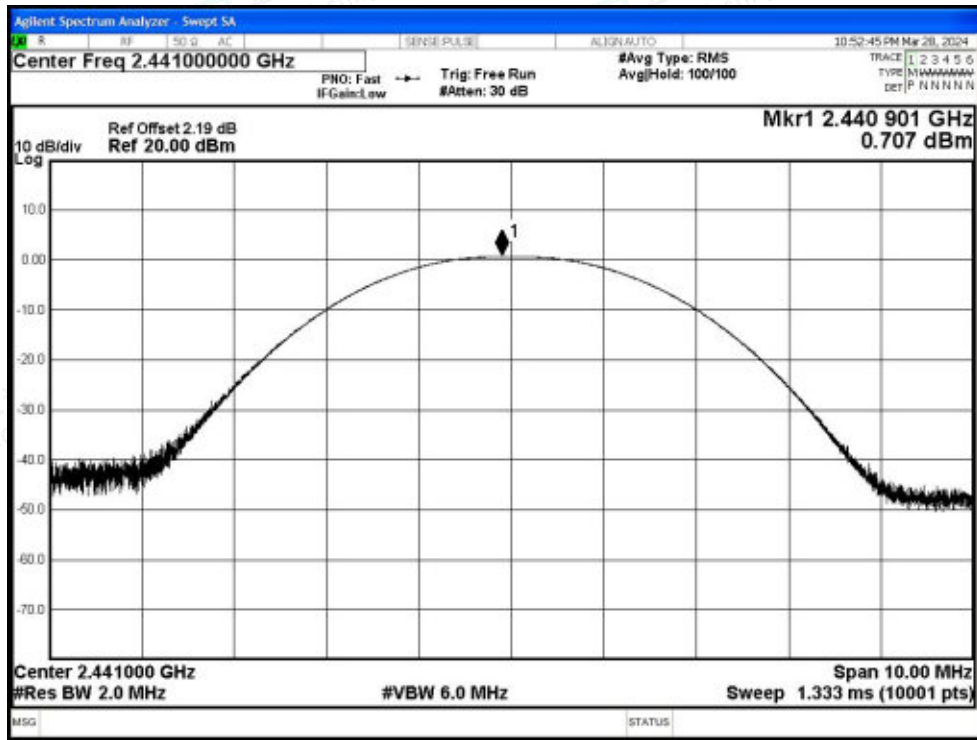


Test Graphs

Power NVNT 1-DH5 2402MHz Ant1

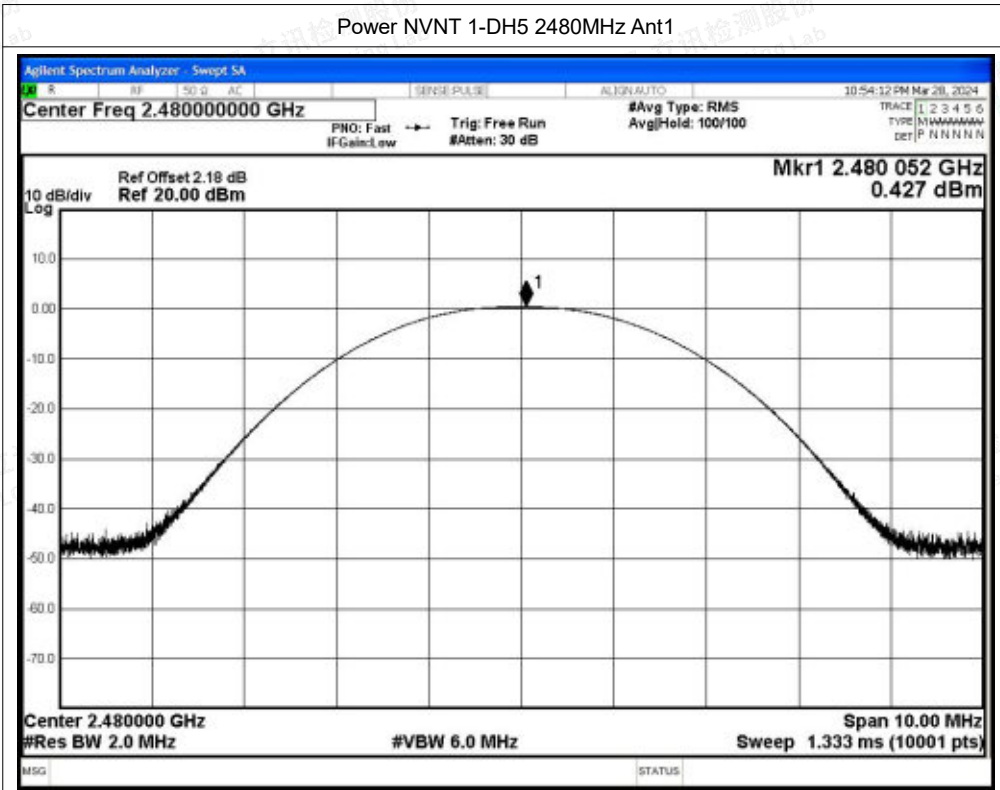


Power NVNT 1-DH5 2441MHz Ant1

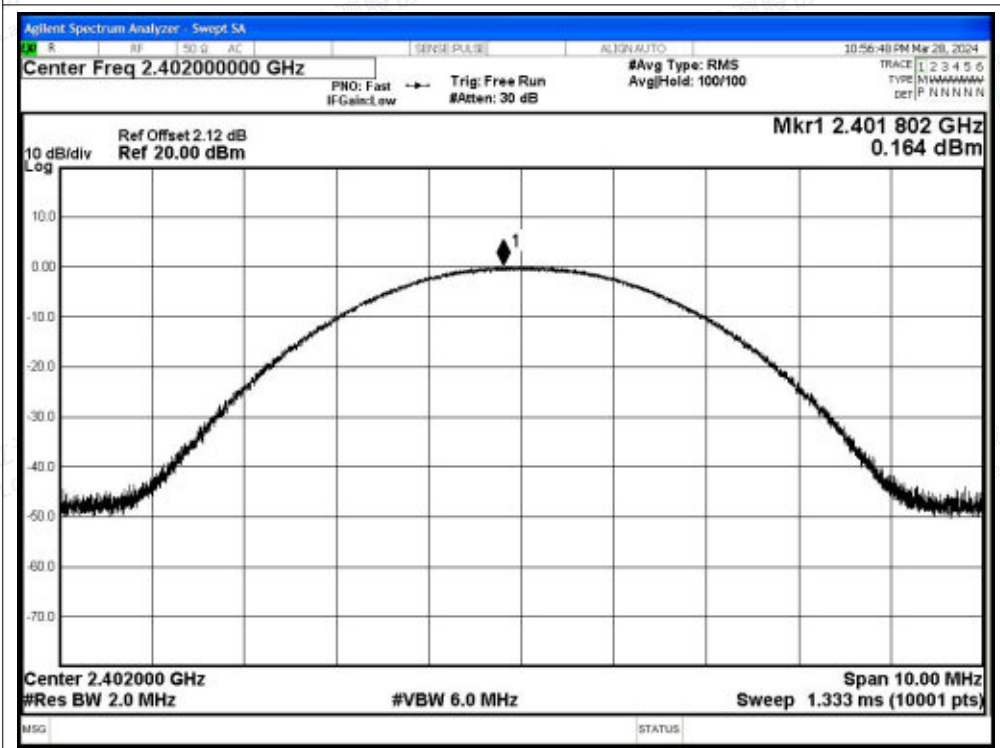




Power NVNT 1-DH5 2480MHz Ant1

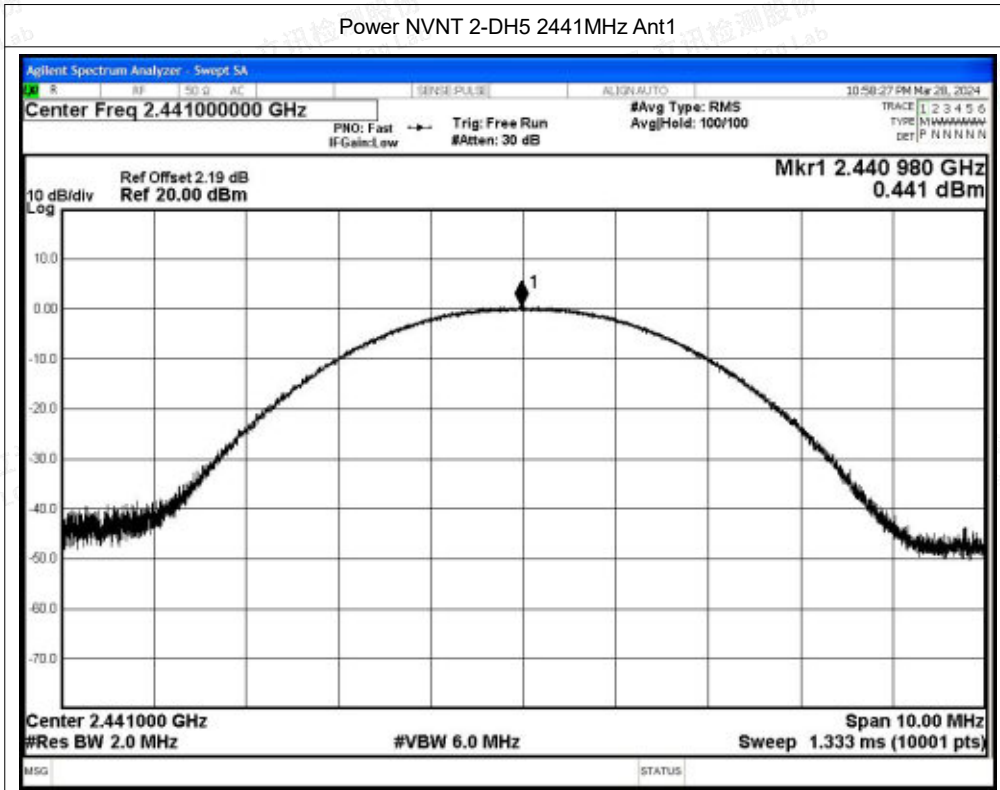


Power NVNT 2-DH5 2402MHz Ant1

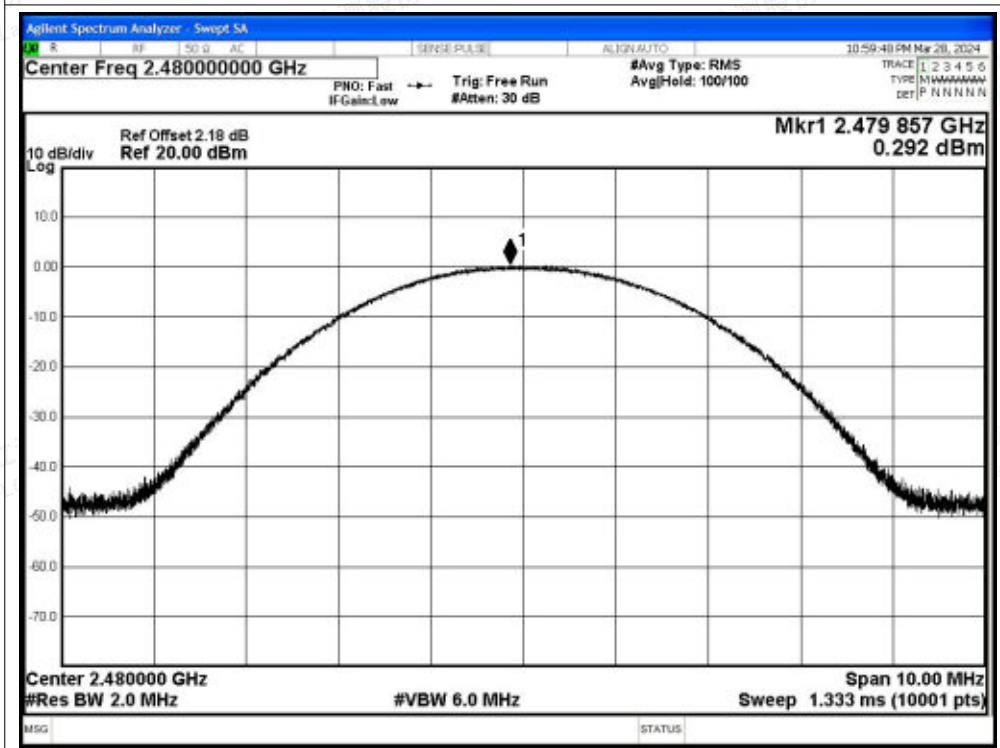




Power NVNT 2-DH5 2441MHz Ant1

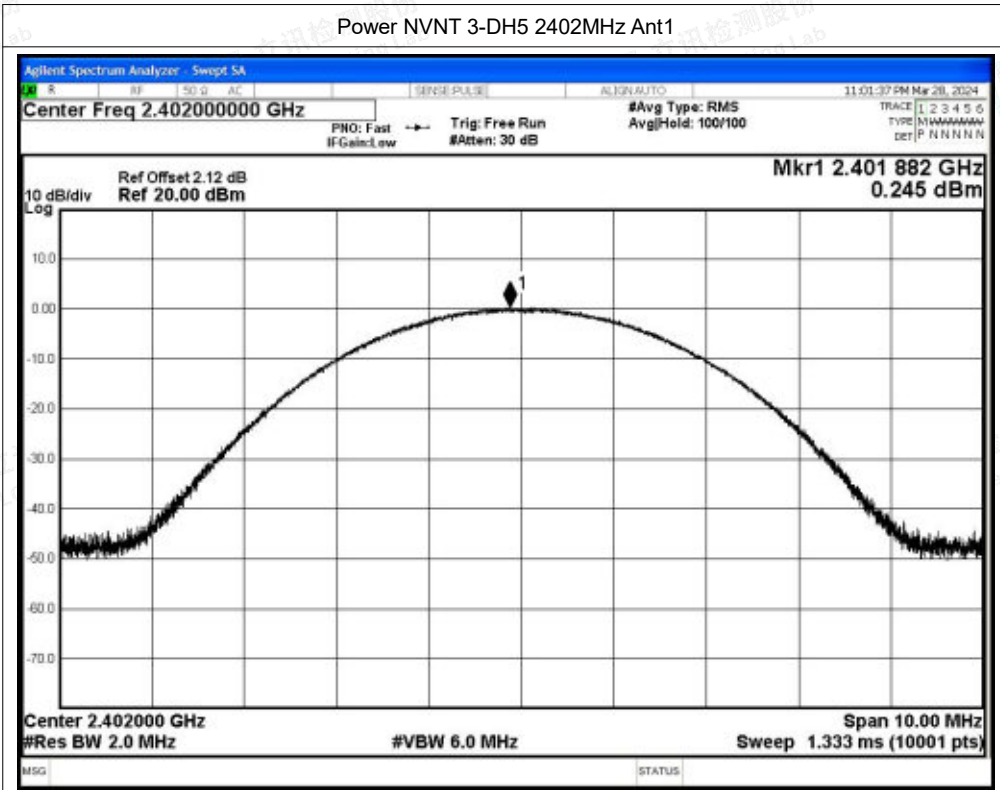


Power NVNT 2-DH5 2480MHz Ant1

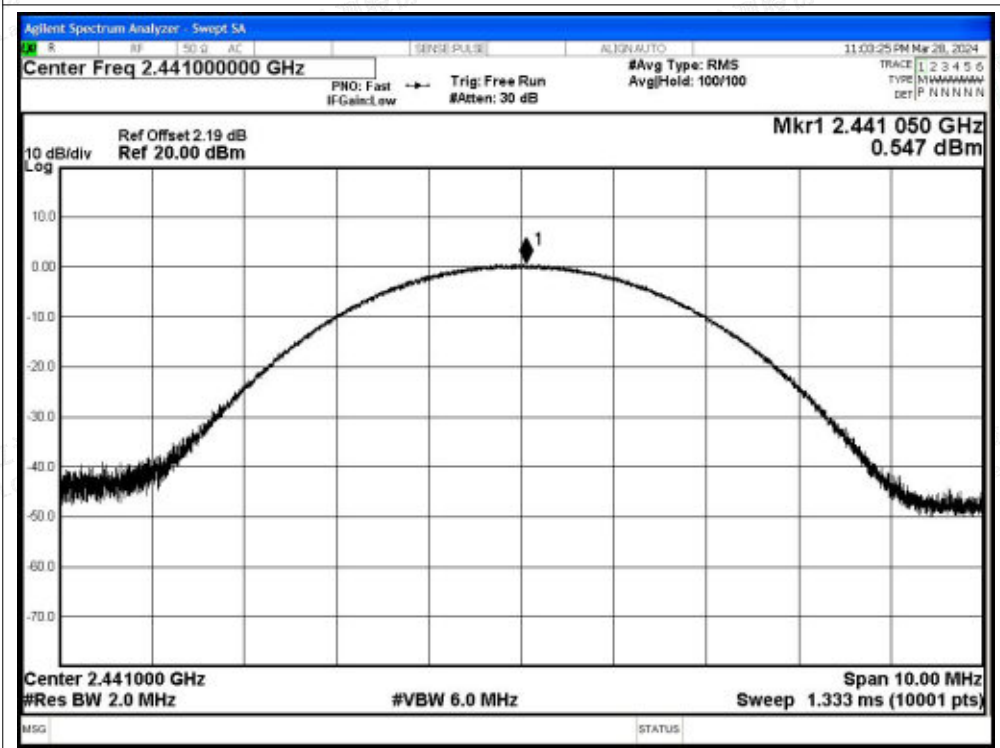




Power NVNT 3-DH5 2402MHz Ant1

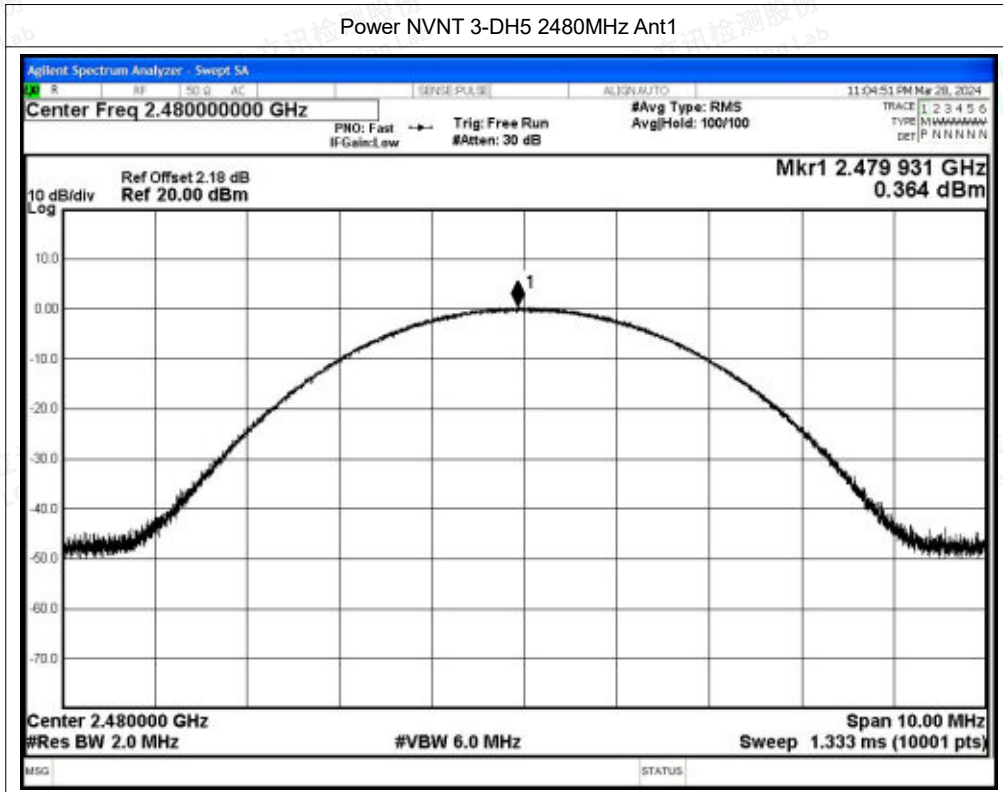


Power NVNT 3-DH5 2441MHz Ant1





Power NVNT 3-DH5 2480MHz Ant1





A.3 Carrier Frequencies Separation

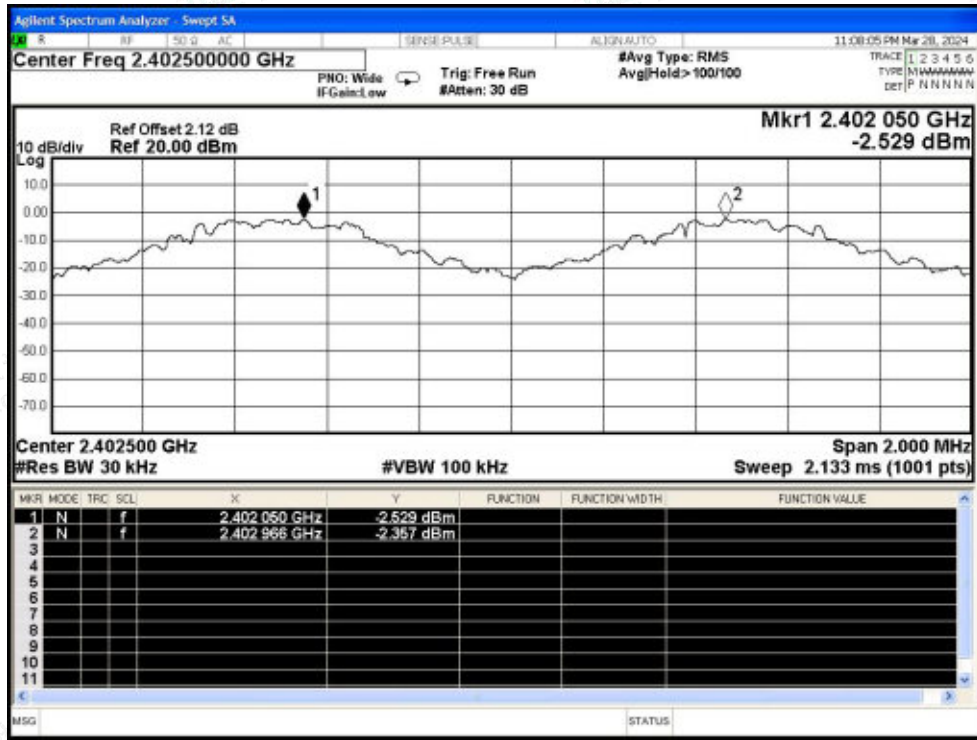
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2402.05	2402.966	0.916	0.687	Pass
NVNT	2-DH5	Ant1	2401.834	2403	1.166	0.860	Pass
NVNT	3-DH5	Ant1	2401.994	2403.004	1.01	0.867	Pass



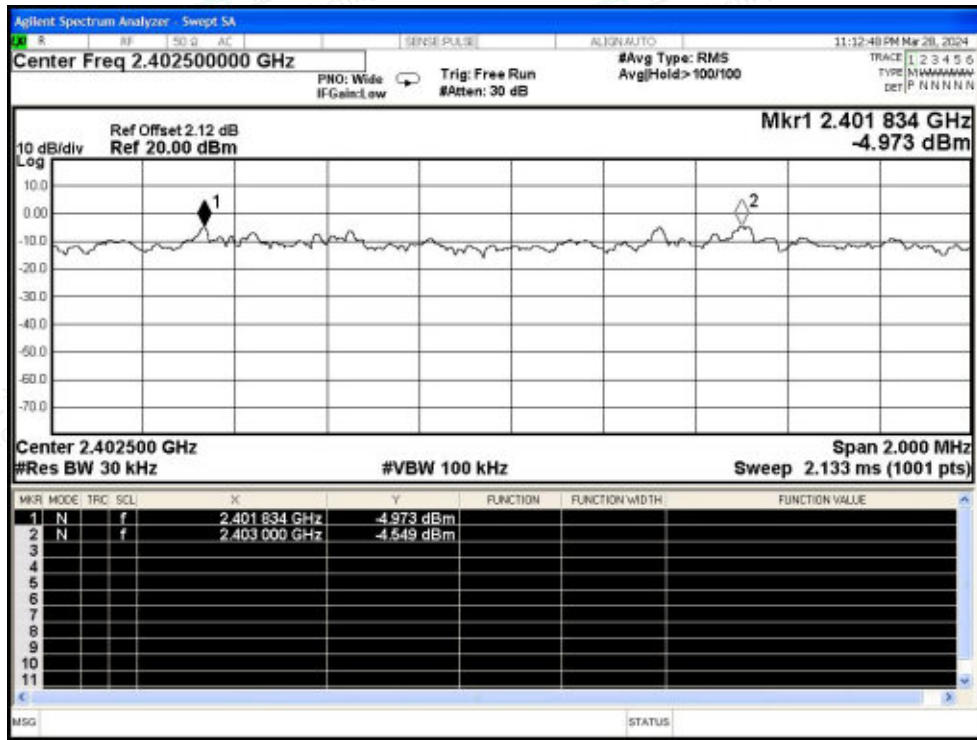


Test Graphs

CFS NVNT 1-DH5 2402MHz Ant1

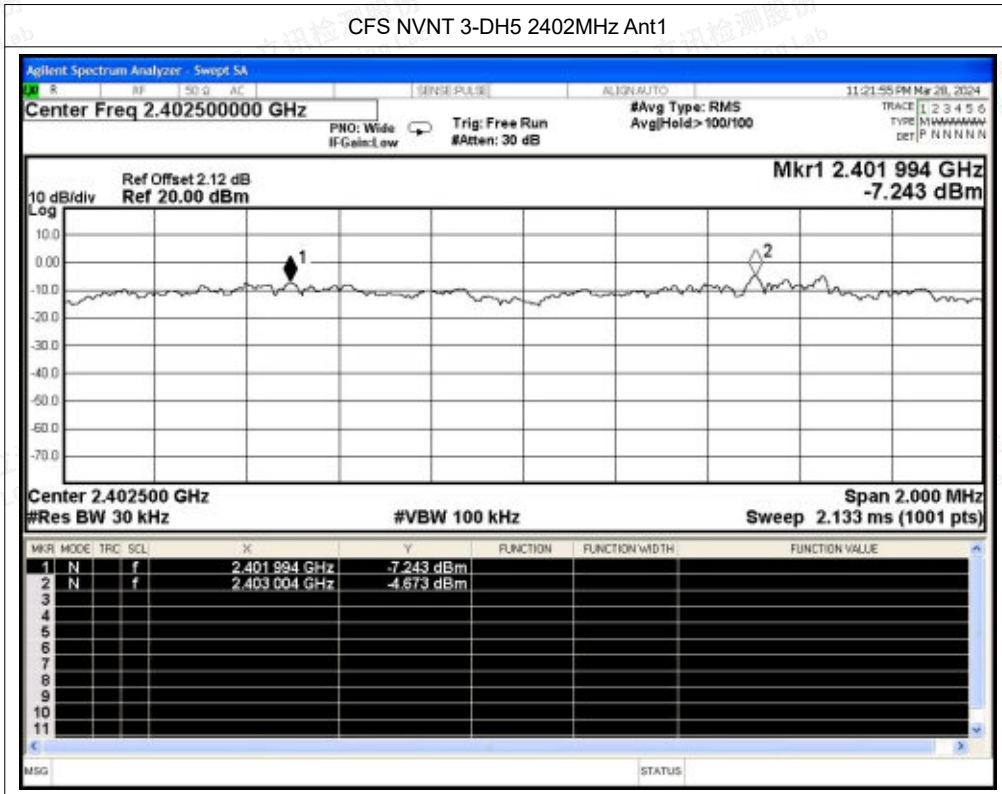


CFS NVNT 2-DH5 2402MHz Ant1





CFS NVNT 3-DH5 2402MHz Ant1





A.4 Dwell Time

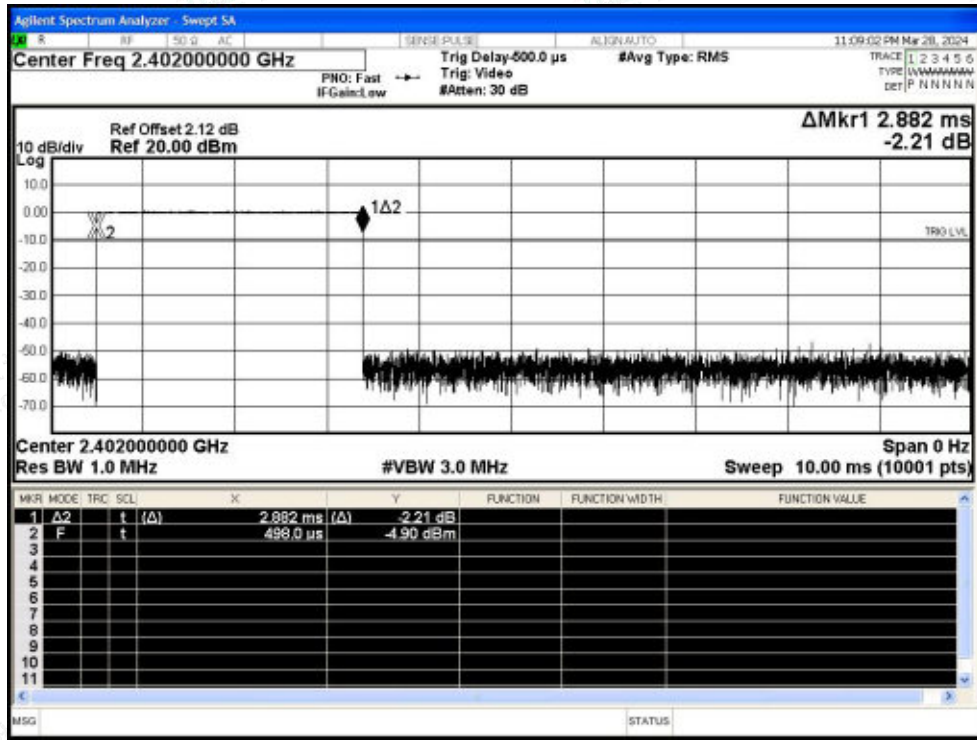
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH5	2402	Ant1	2.882	299.728	104	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.88	308.16	107	31600	400	Pass
NVNT	3-DH5	2402	Ant1	2.887	303.135	105	31600	400	Pass



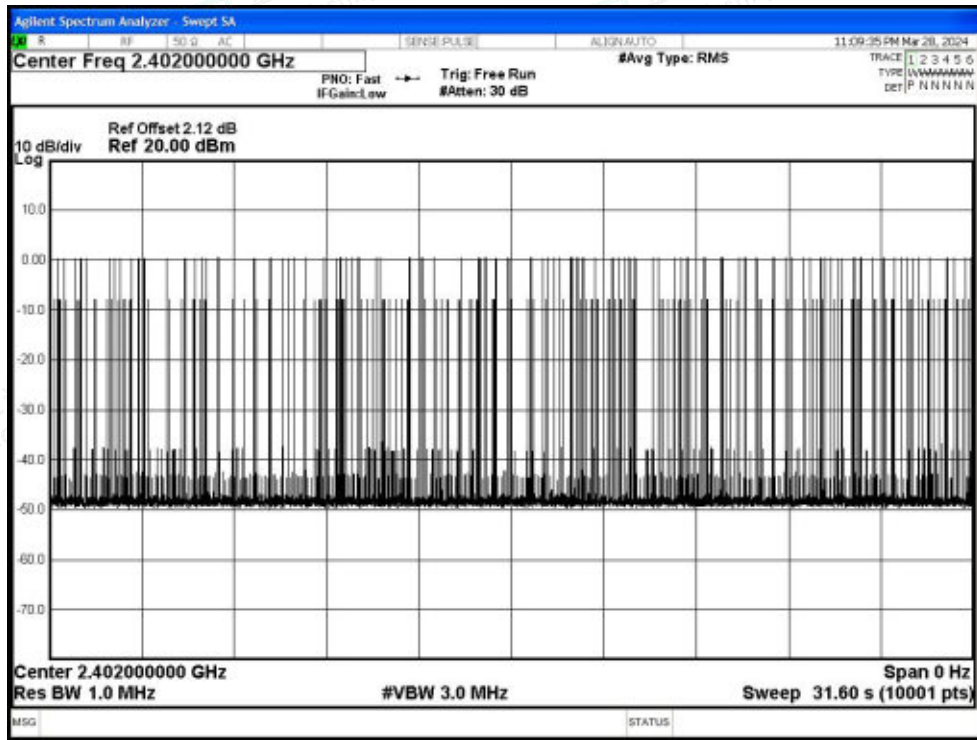


Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant1 One Burst

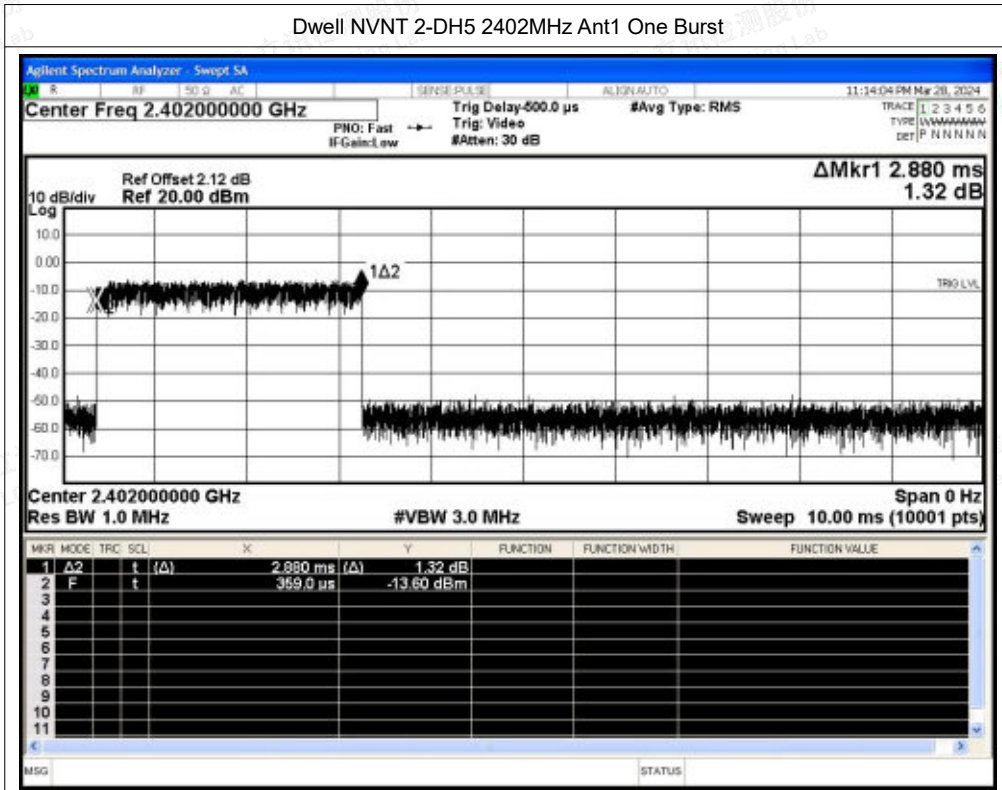


Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated

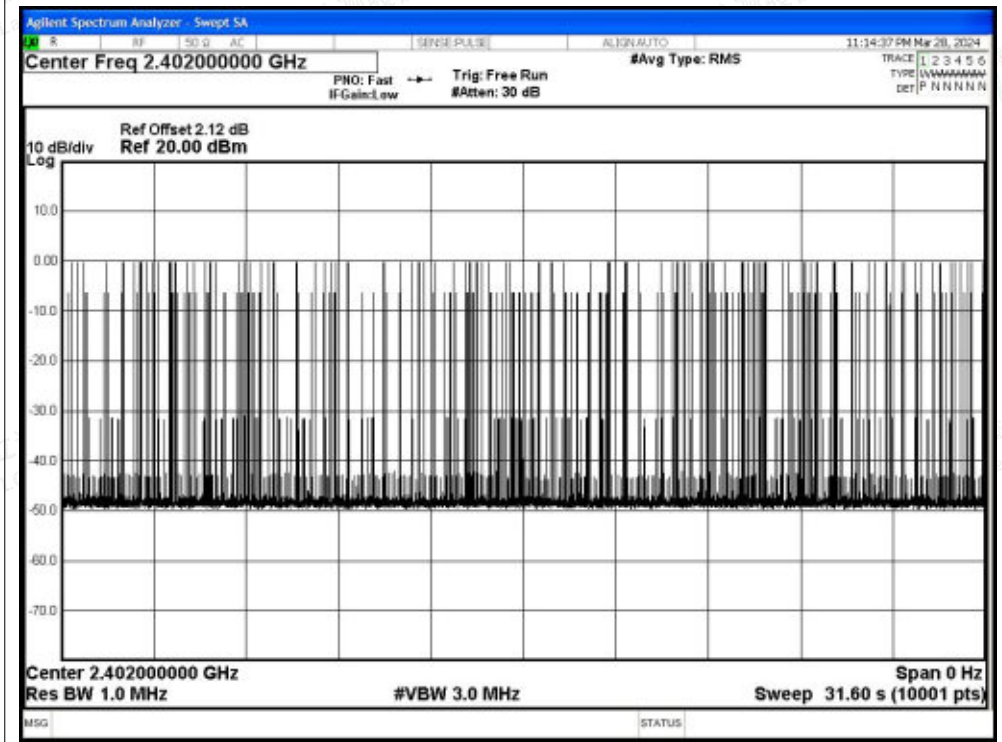




Dwell NVNT 2-DH5 2402MHz Ant1 One Burst

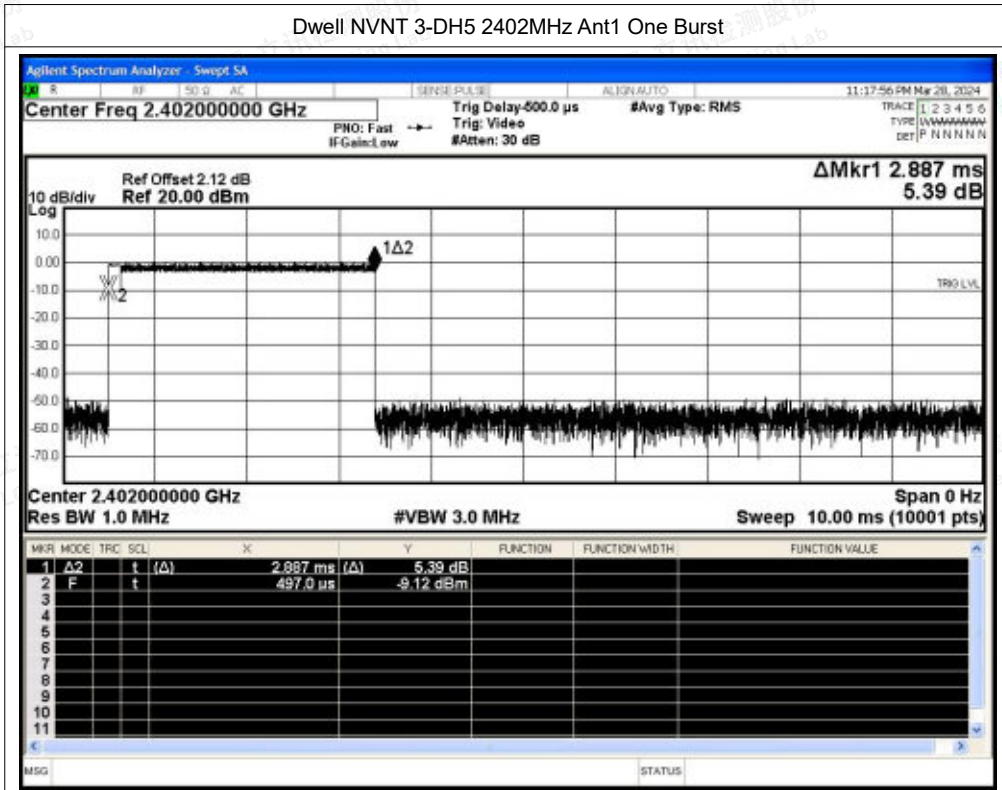


Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated

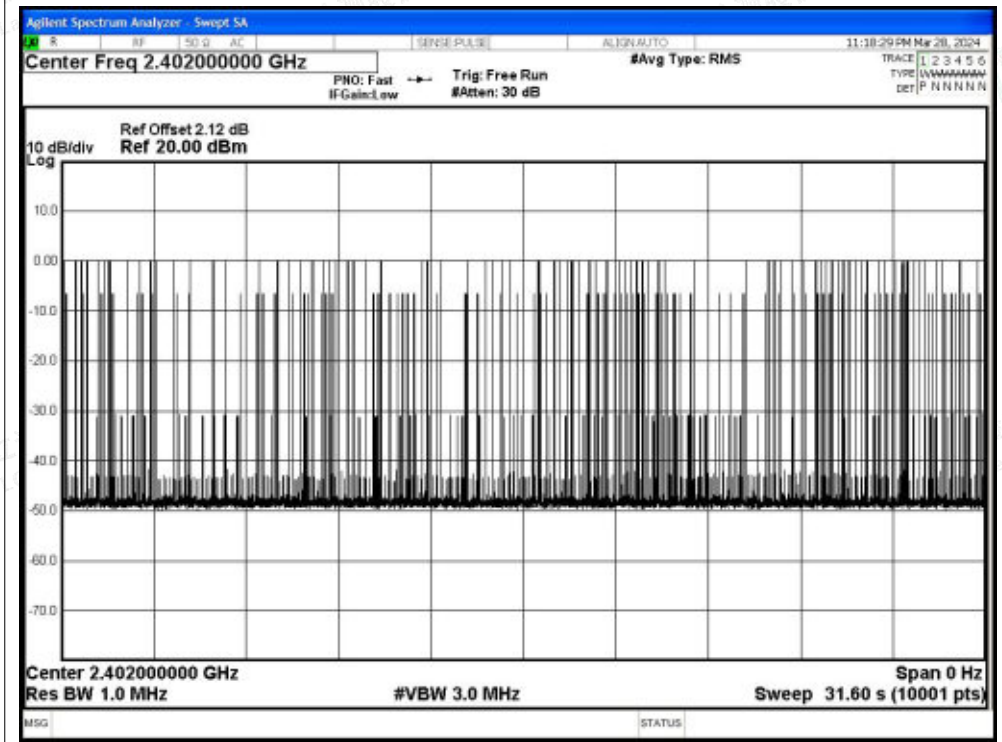




Dwell NVNT 3-DH5 2402MHz Ant1 One Burst



Dwell NVNT 3-DH5 2402MHz Ant1 Accumulated





A.5 Number of Hopping Channel

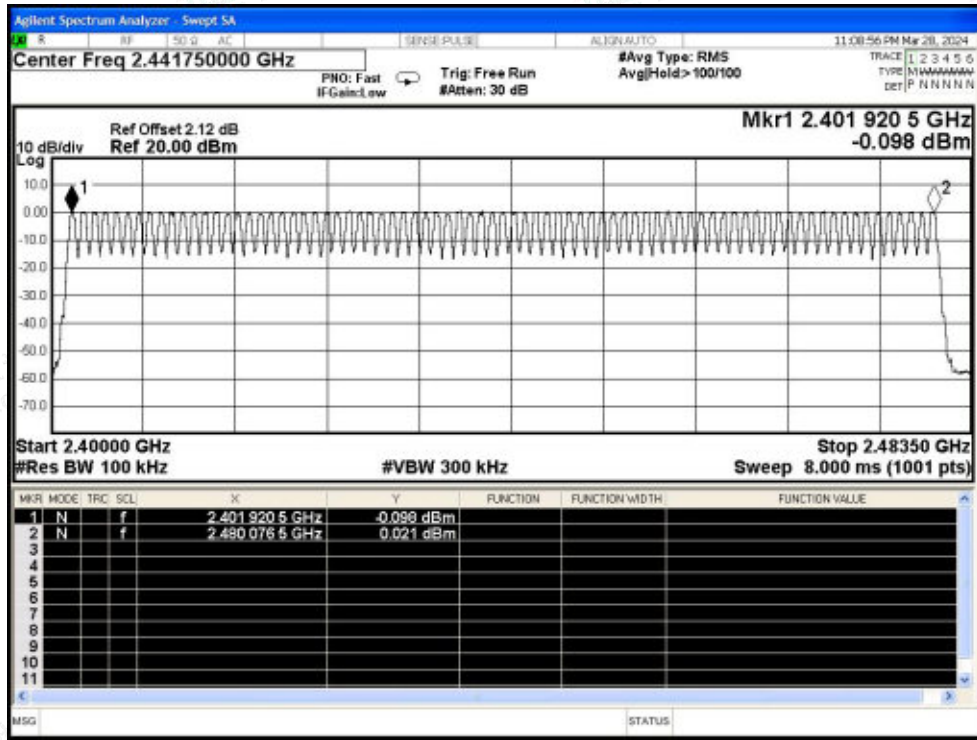
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH5	Ant1	79	15	Pass
NVNT	2-DH5	Ant1	79	15	Pass
NVNT	3-DH5	Ant1	79	15	Pass



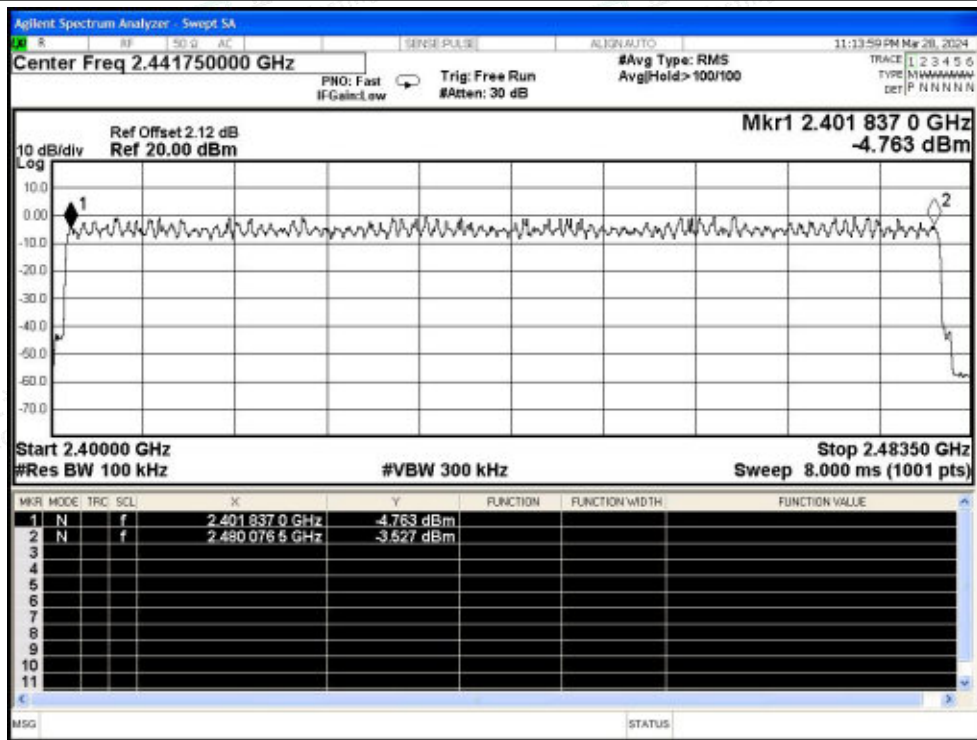


Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant1

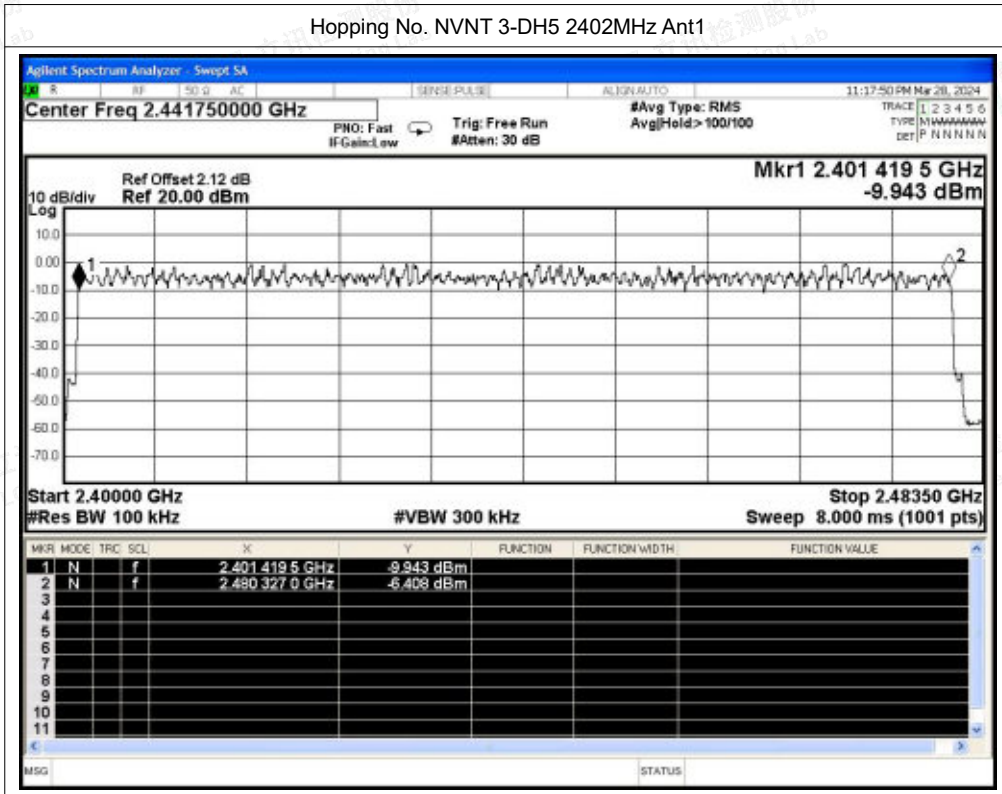


Hopping No. NVNT 2-DH5 2402MHz Ant1





Hopping No. NVNT 3-DH5 2402MHz Ant1





A.6 Band Edge

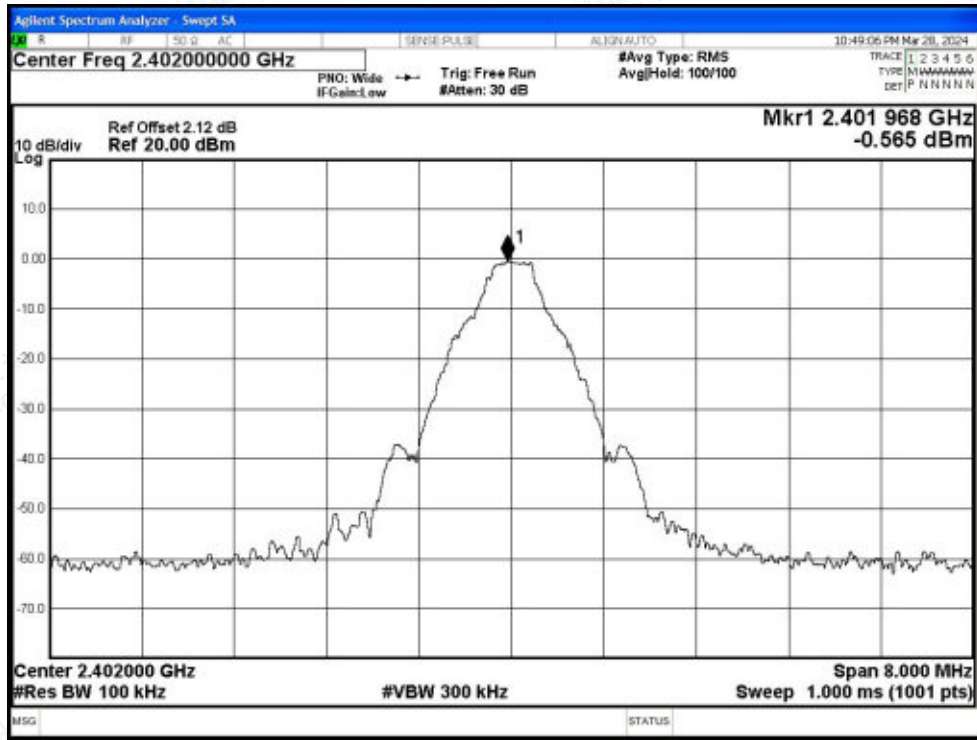
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-56.01	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-56.67	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-52.3	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-55.18	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-53.22	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-52.63	-20	Pass



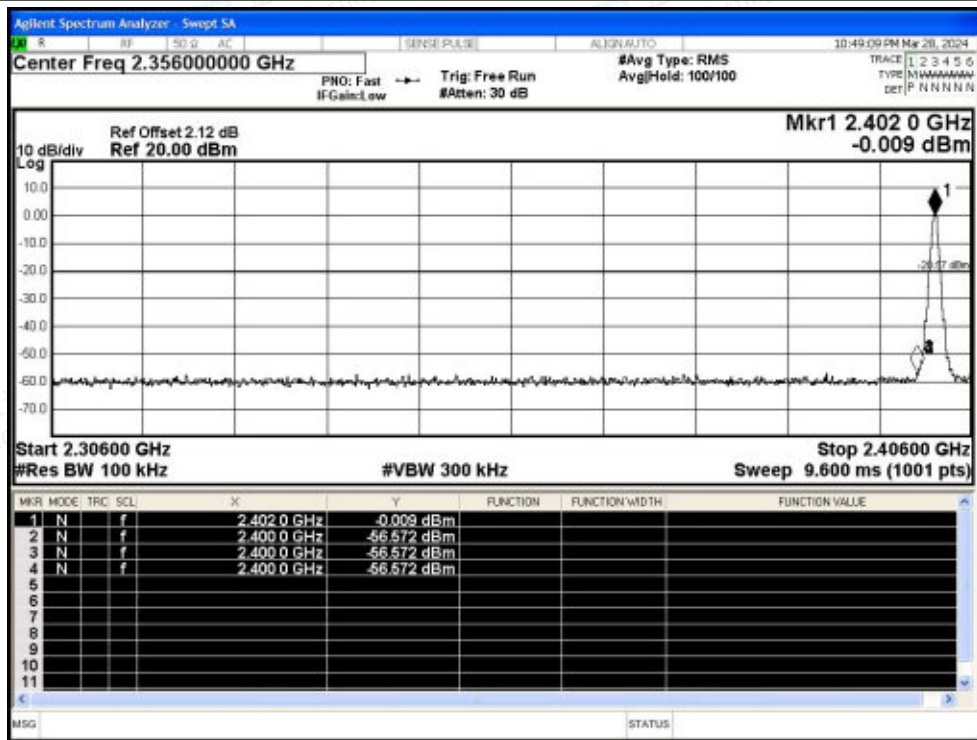


Test Graphs

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

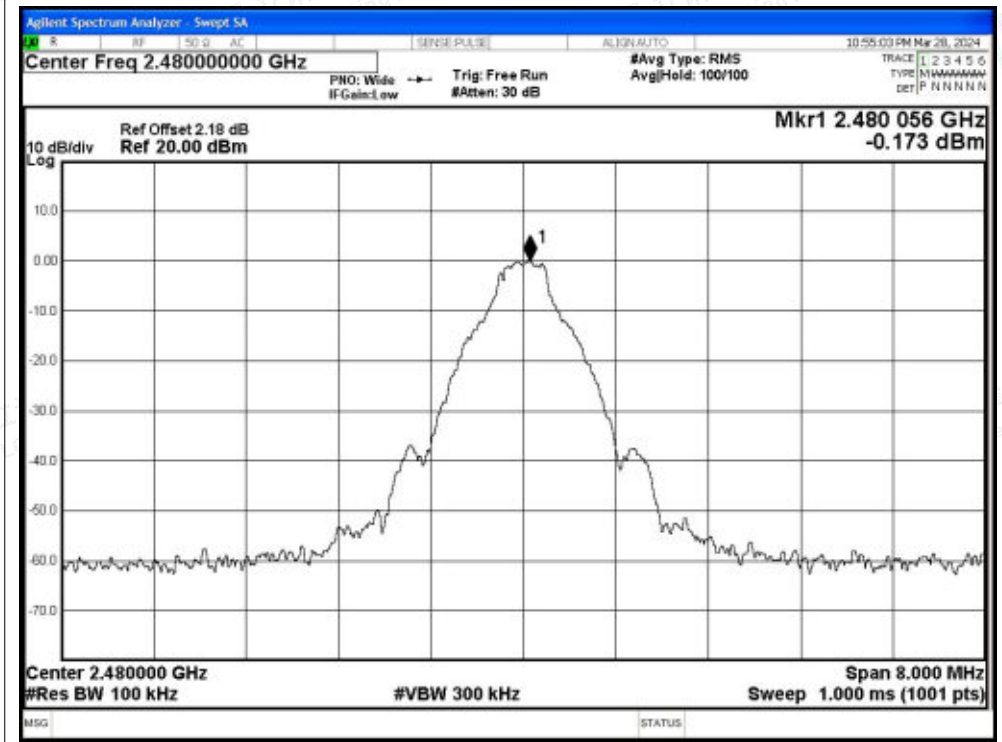


Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission

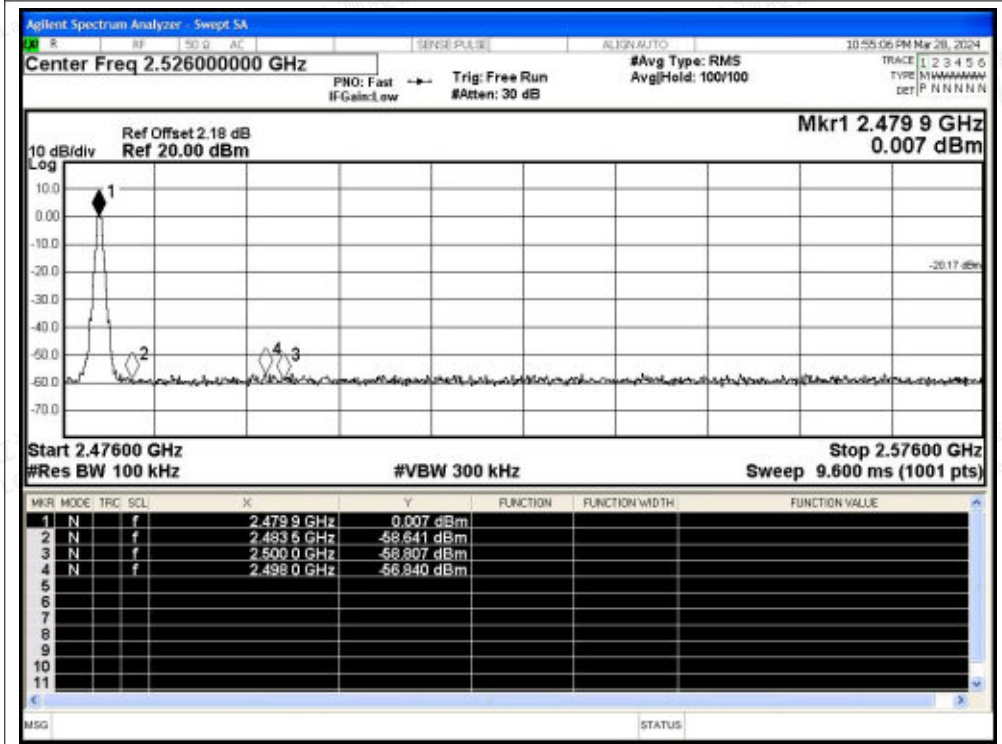




Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref

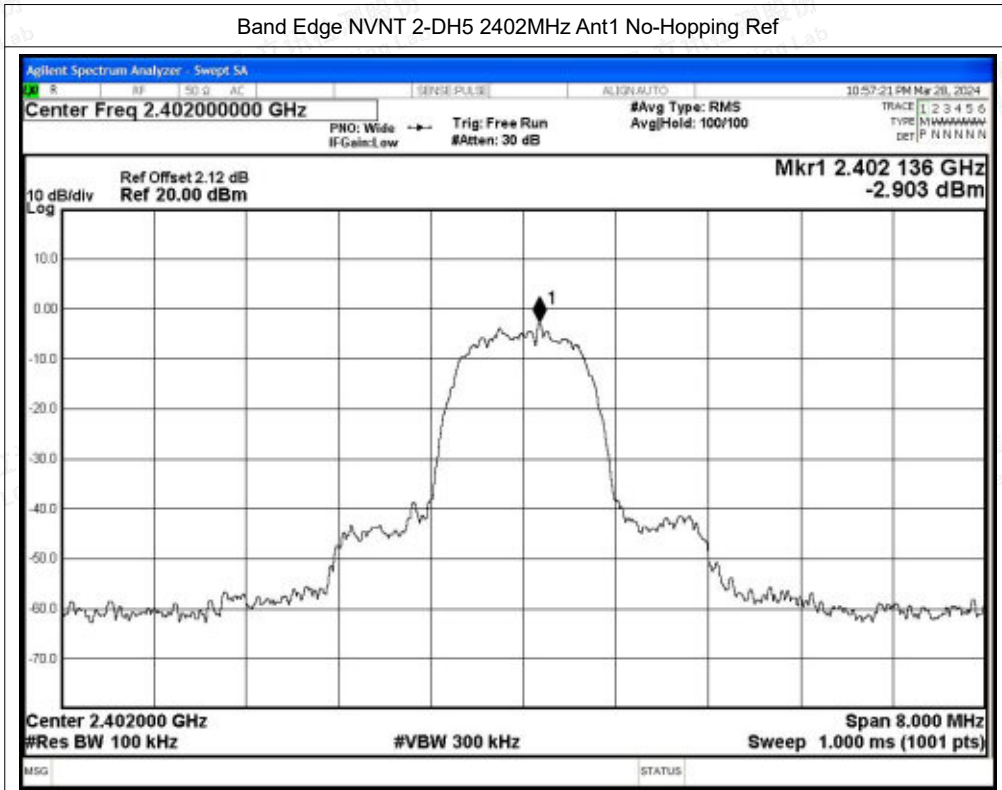


Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission

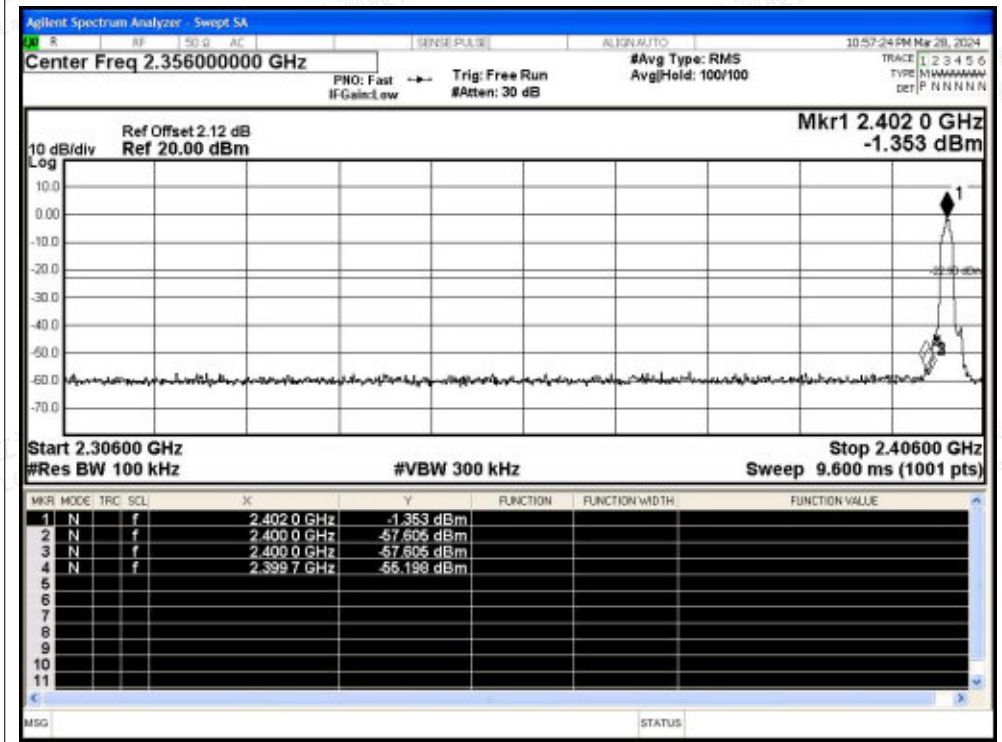




Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref

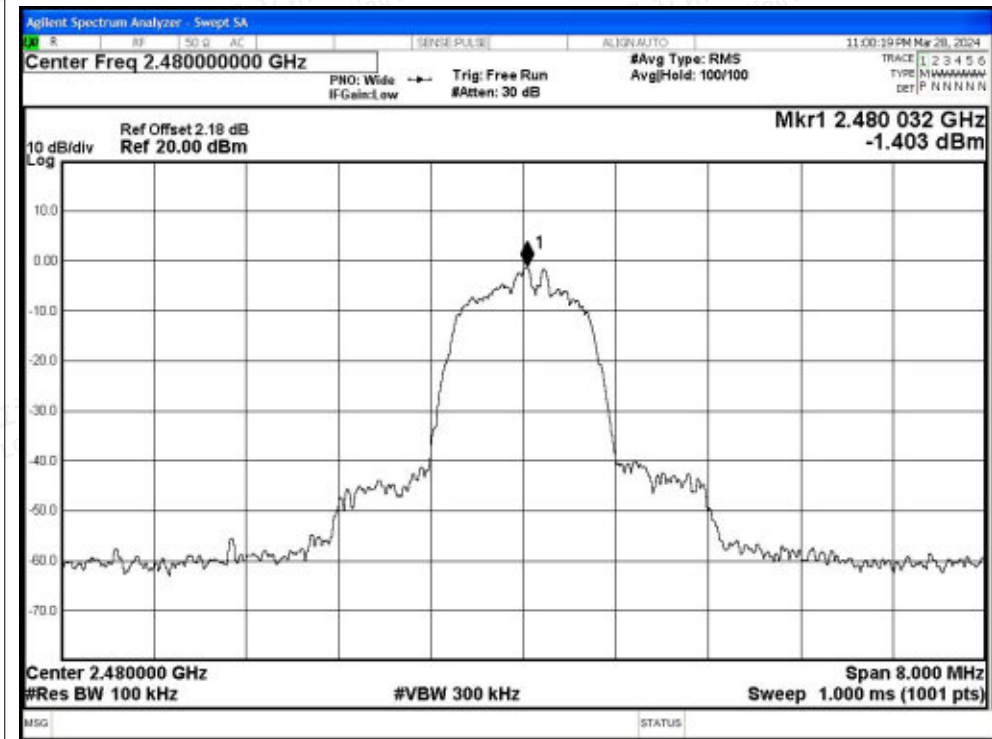


Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission

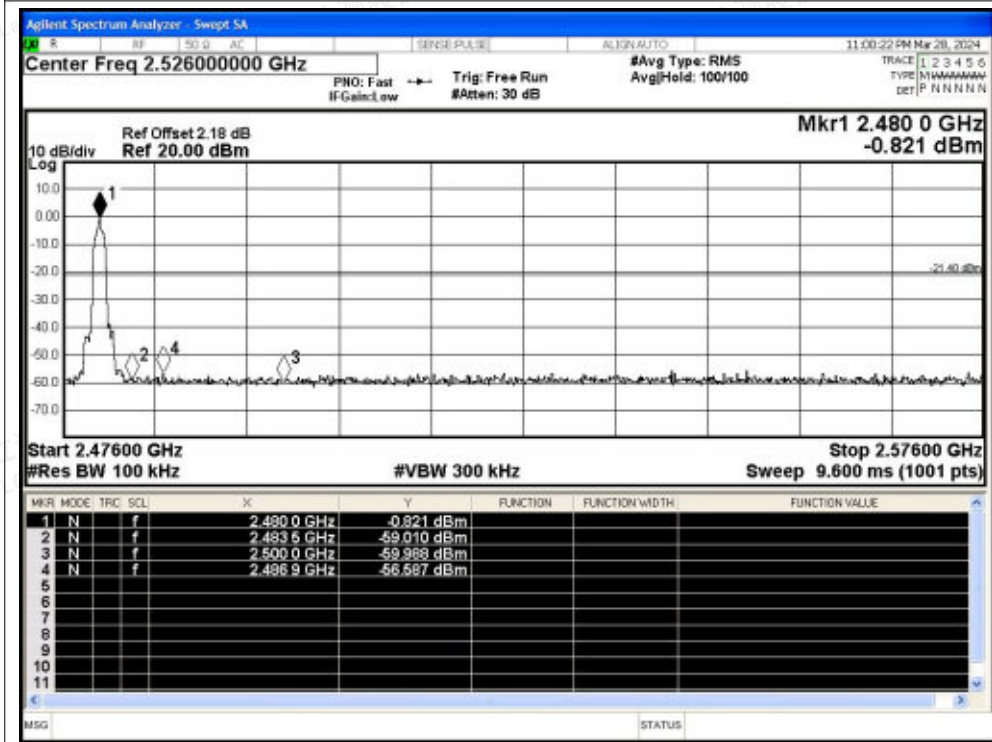




Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref

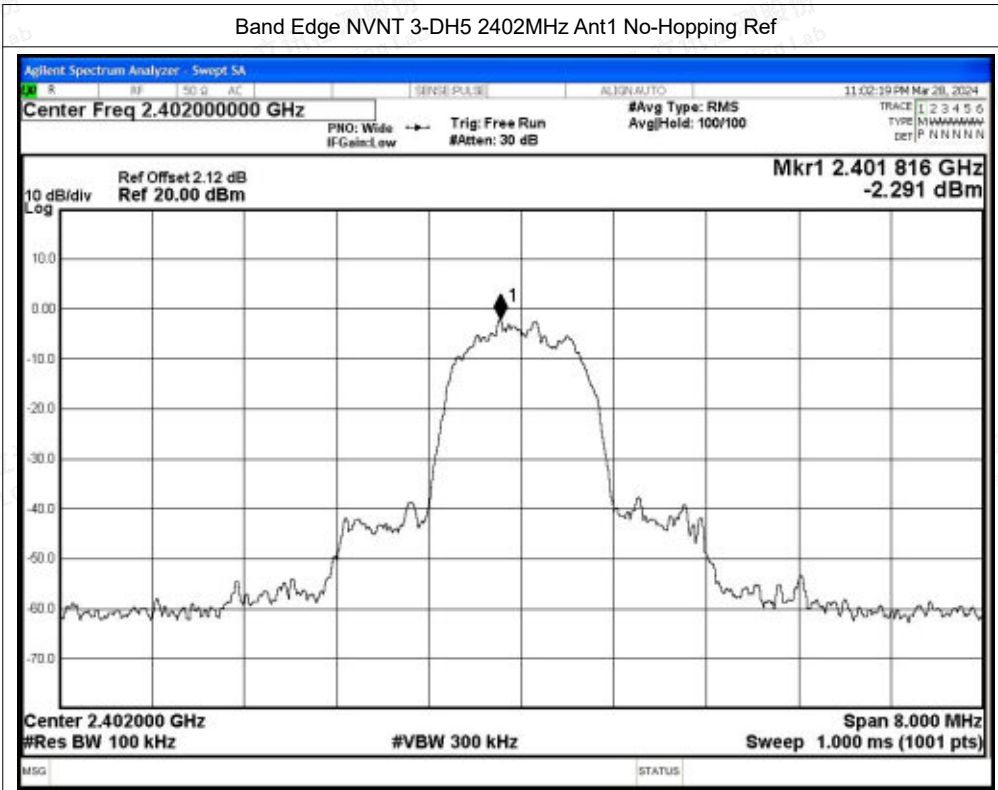


Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Emission

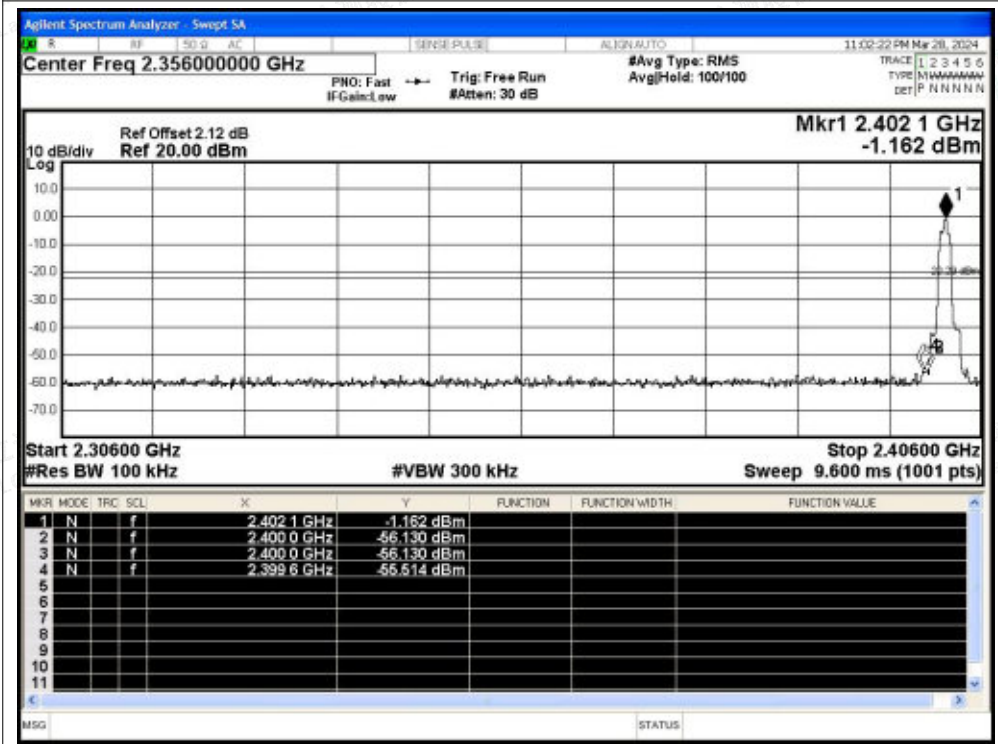




Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Ref

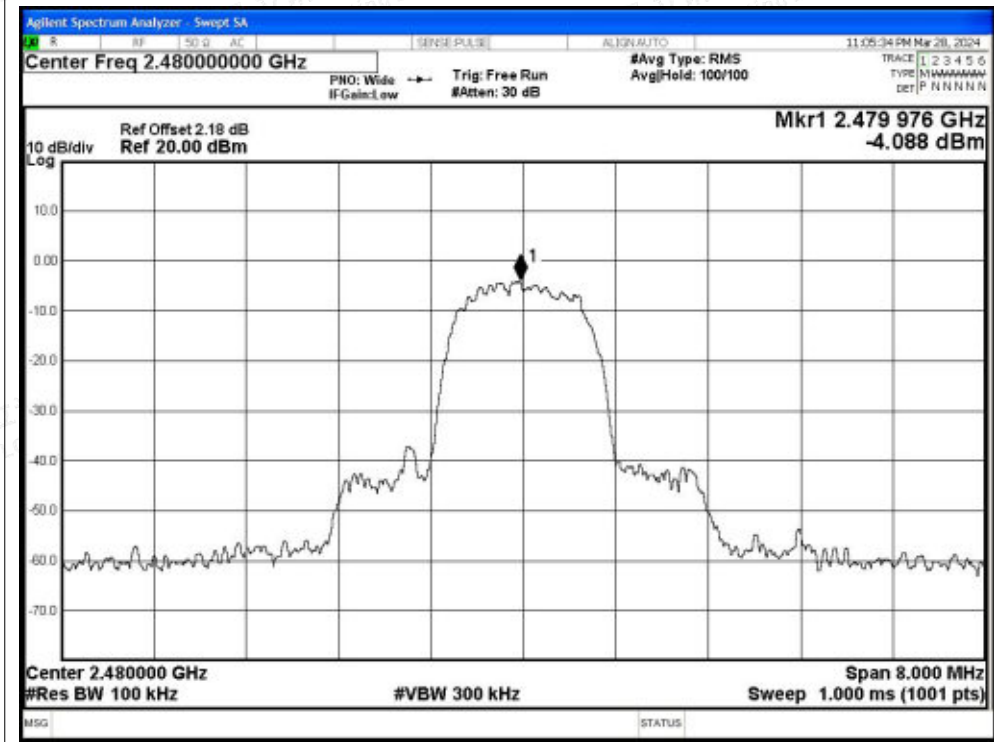


Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Emission

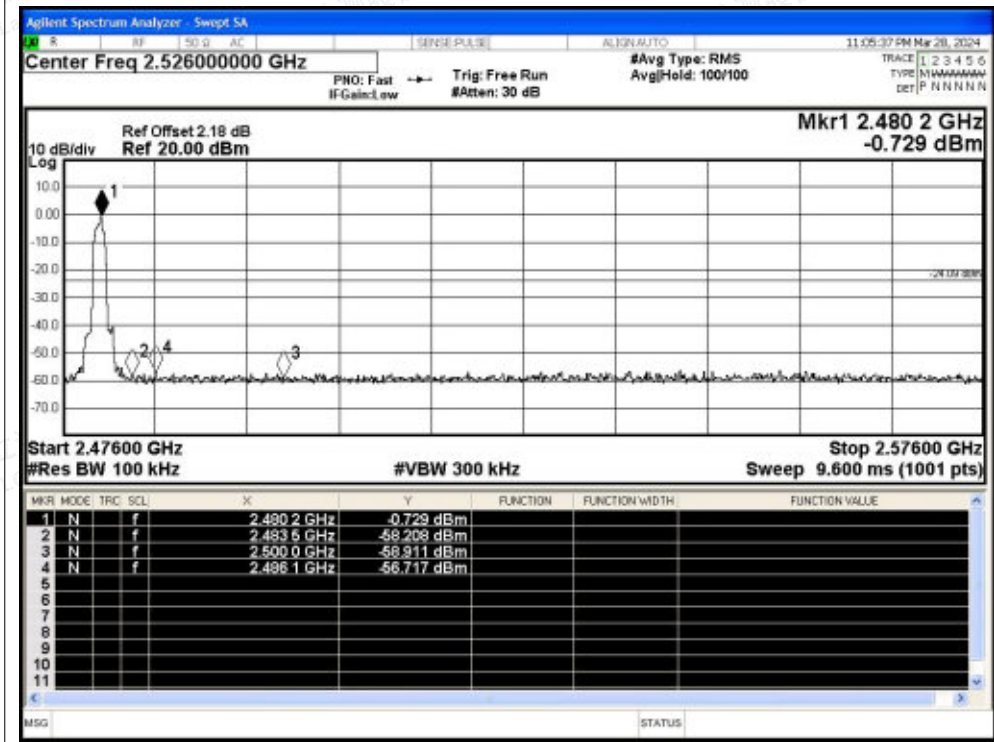




Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Ref



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





(Hopping)

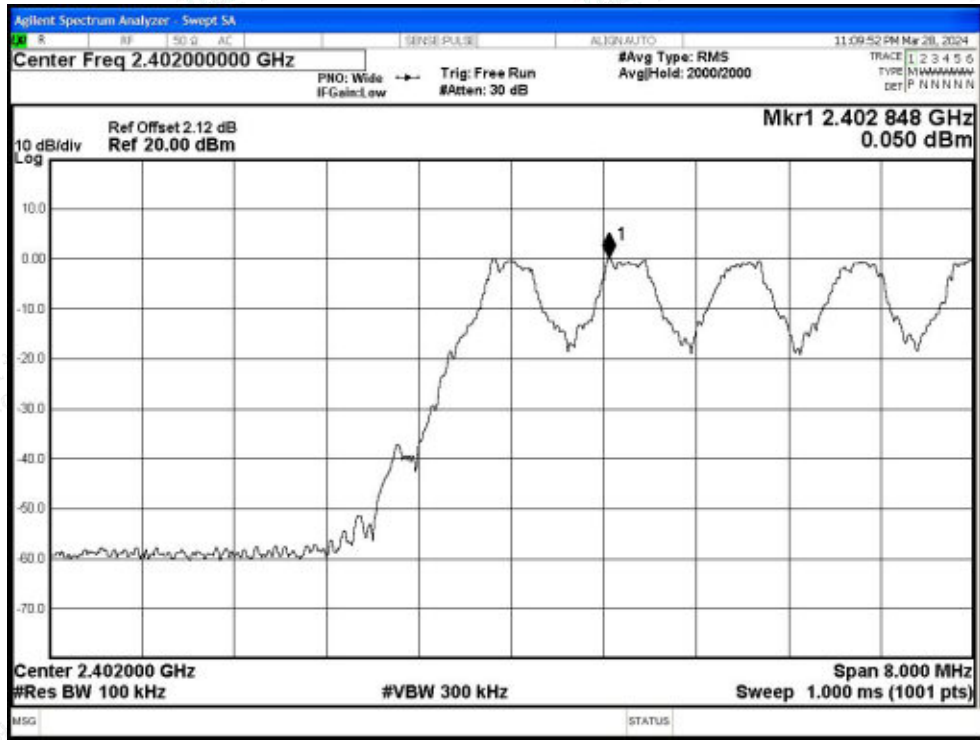
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-56.15	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-56.38	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-55.26	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-54.99	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-54.83	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-55.19	-20	Pass



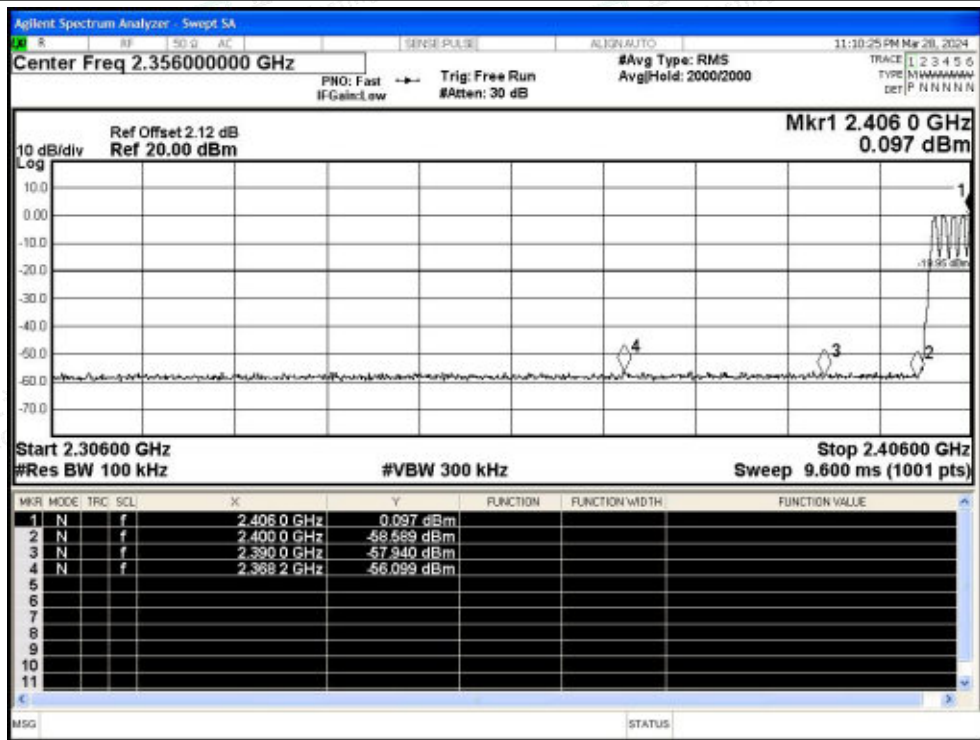


Test Graphs

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

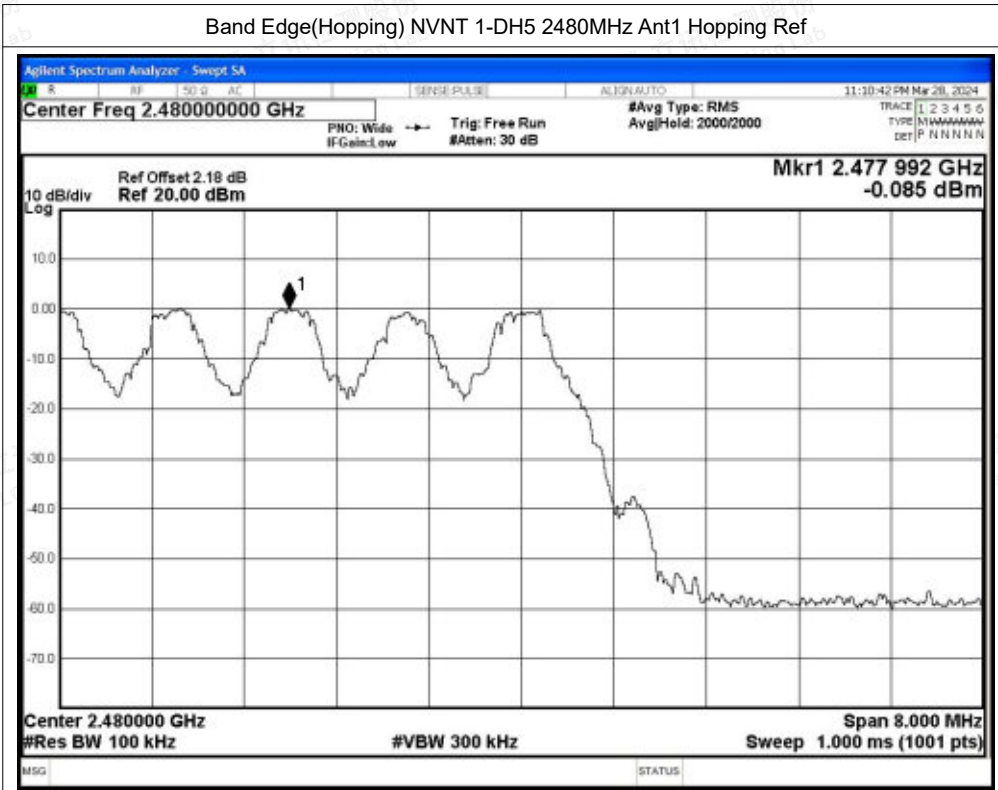


Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission

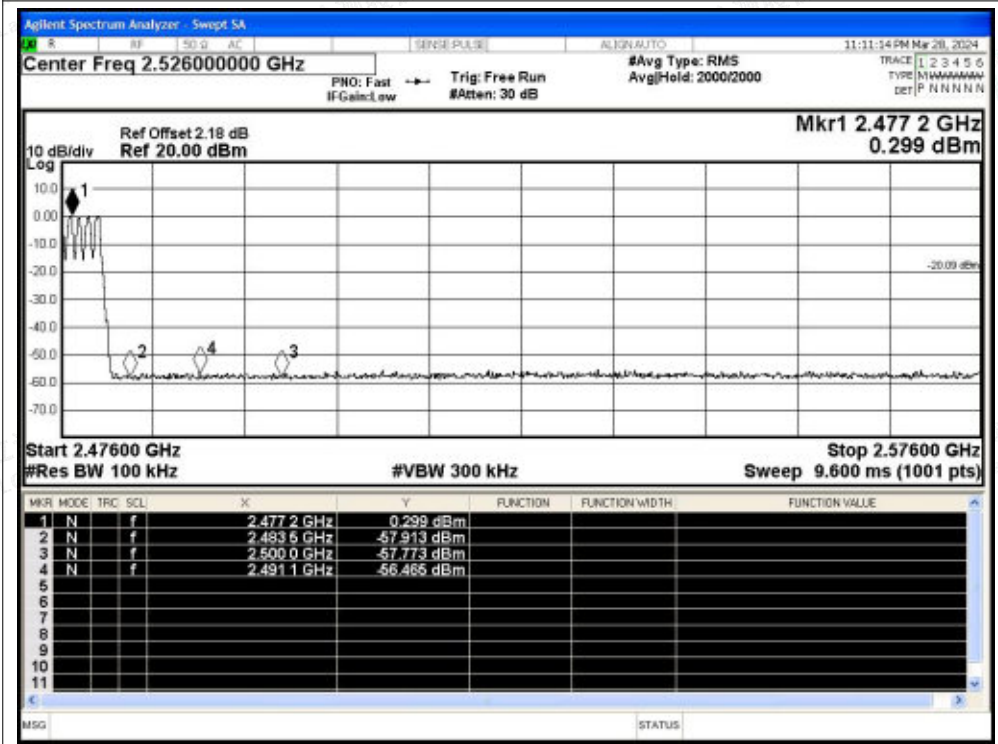




Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Ref



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

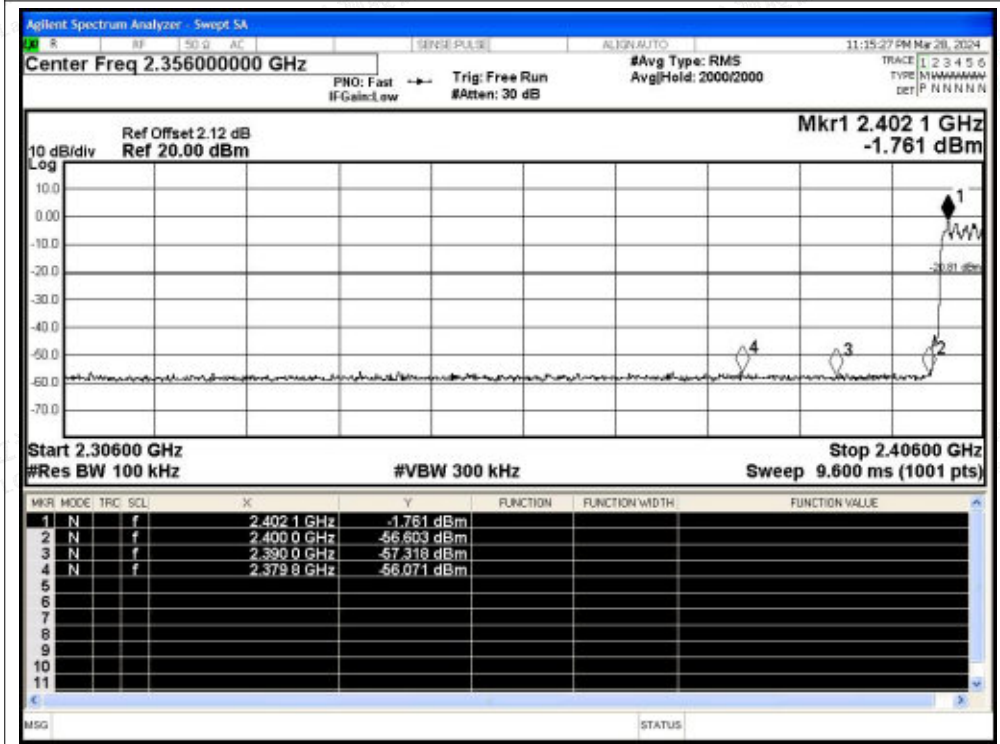




Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Ref

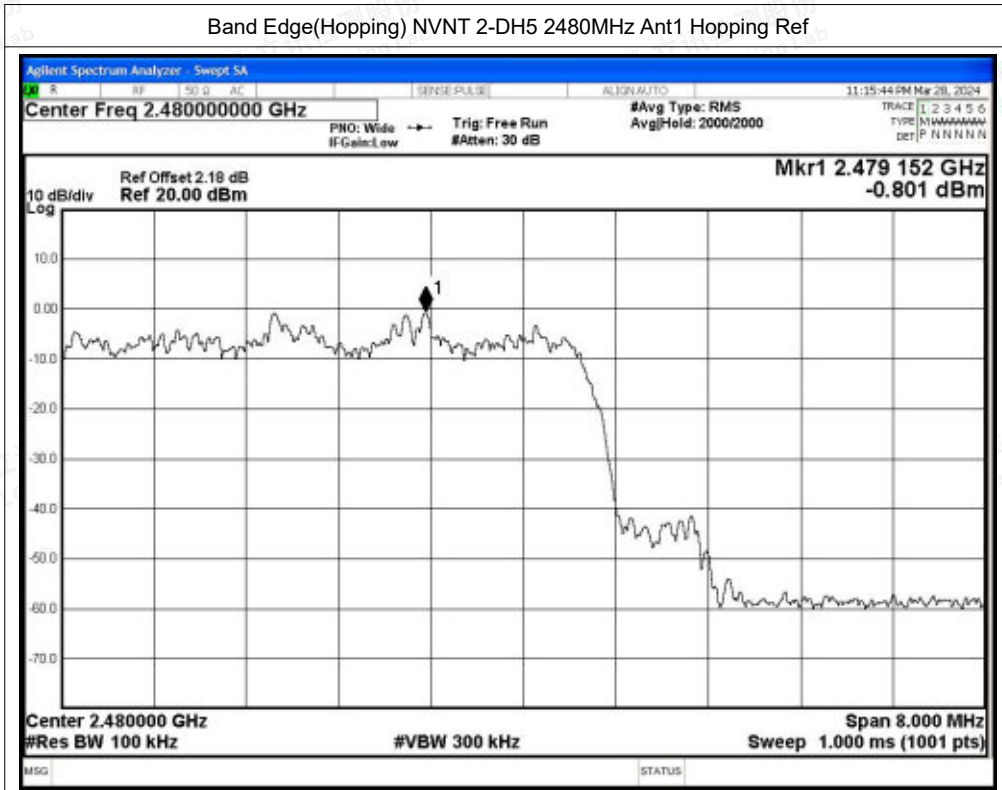


Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Emission

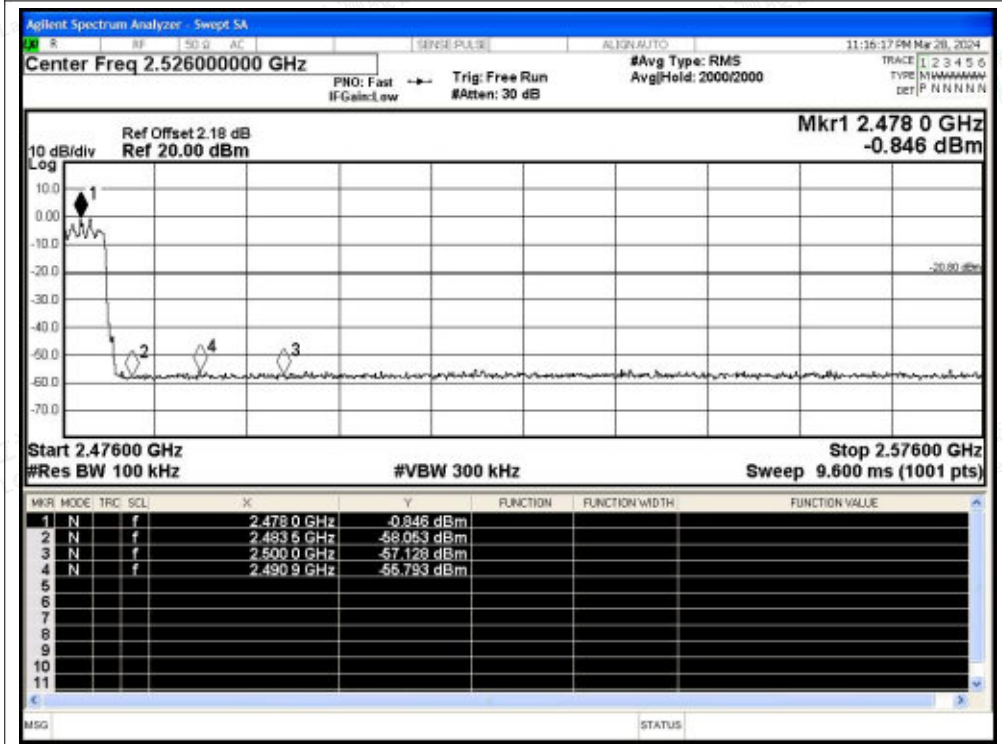




Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Ref



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

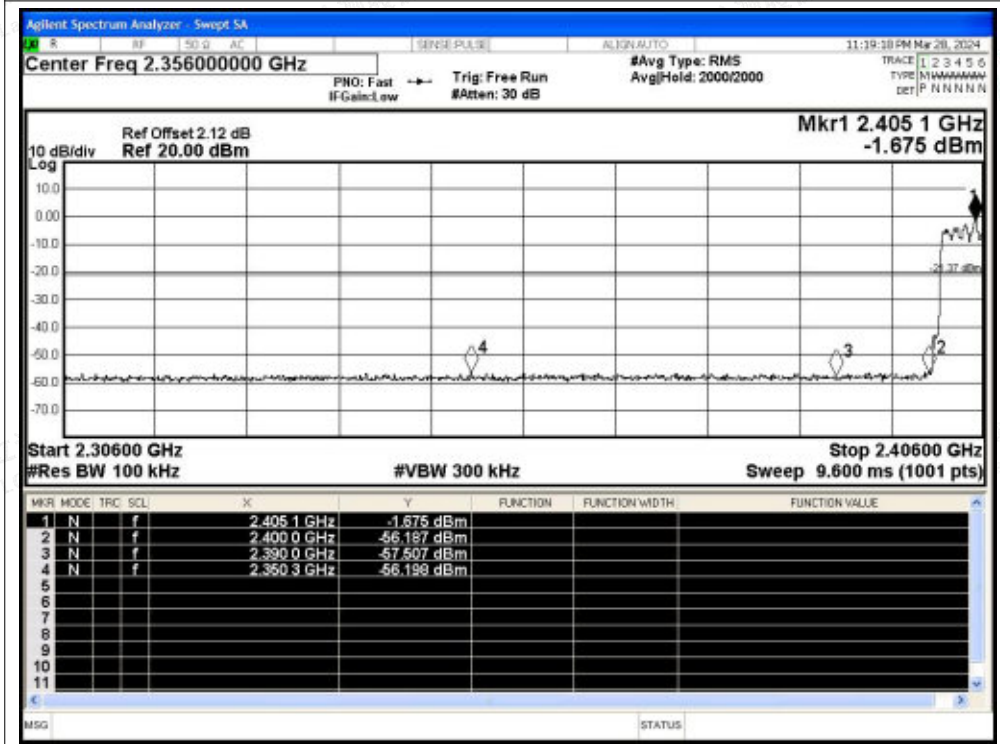




Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Ref

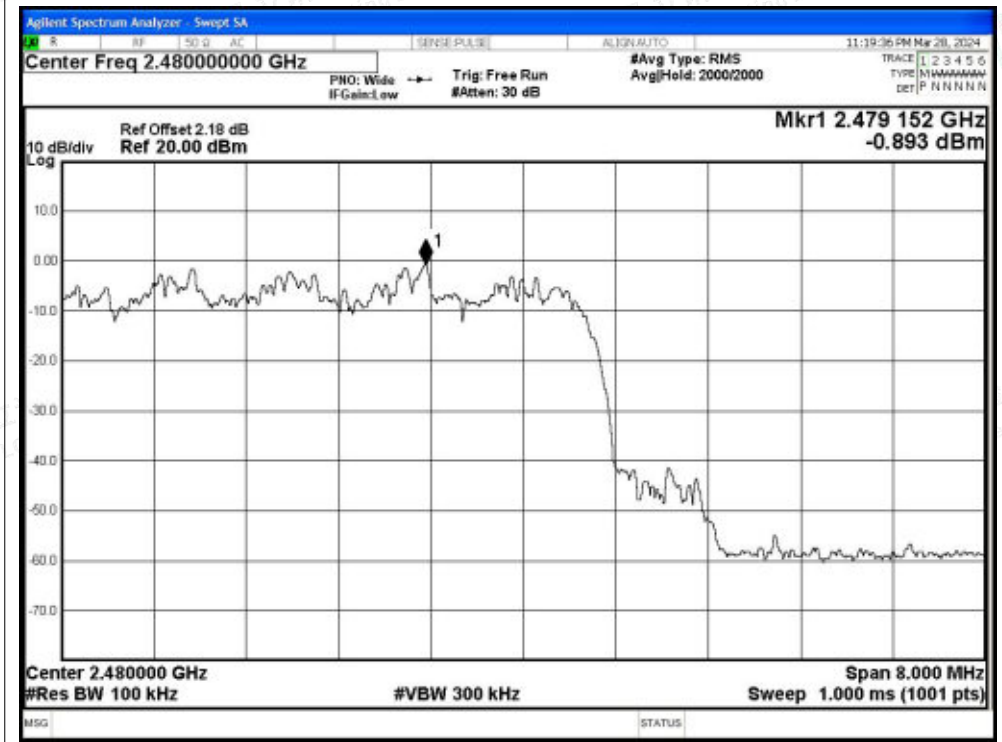


Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Emission

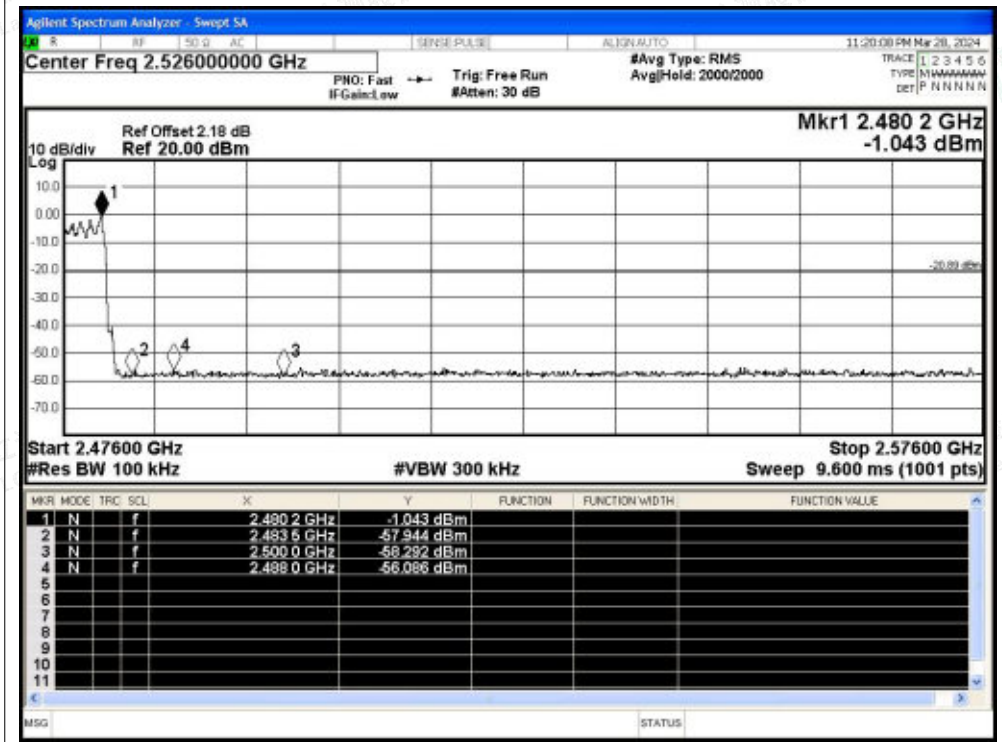




Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Ref



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





A.7 Conducted RF Spurious Emission

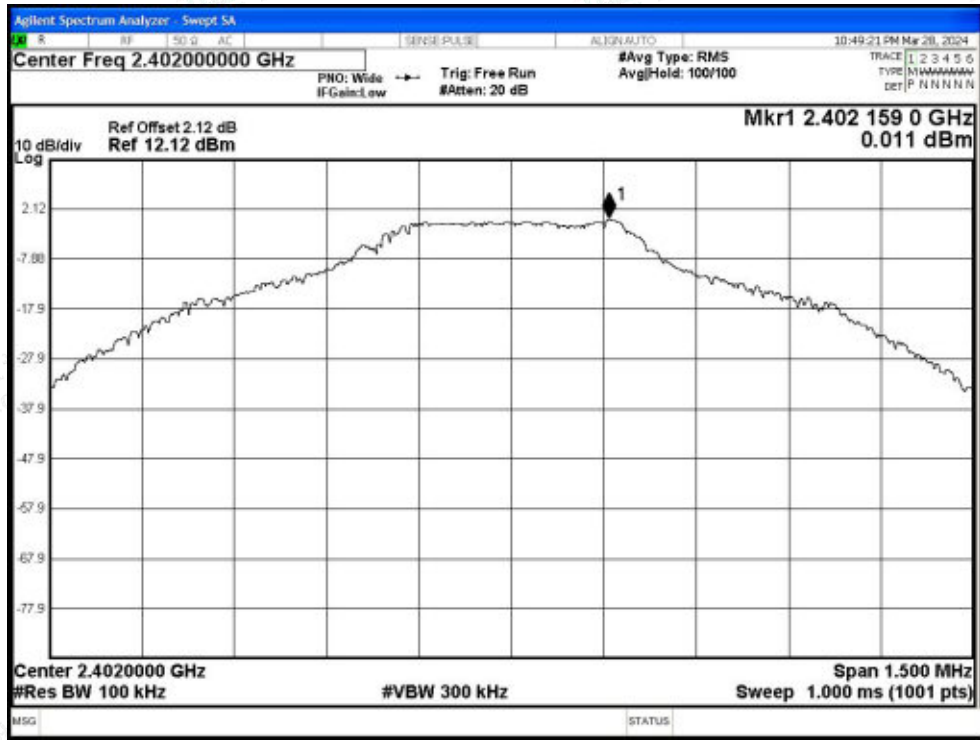
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-54.74	-20	Pass
NVNT	1-DH5	2441	Ant1	-55.68	-20	Pass
NVNT	1-DH5	2480	Ant1	-54.52	-20	Pass
NVNT	2-DH5	2402	Ant1	-54.95	-20	Pass
NVNT	2-DH5	2441	Ant1	-55.02	-20	Pass
NVNT	2-DH5	2480	Ant1	-53.93	-20	Pass
NVNT	3-DH5	2402	Ant1	-48.1	-20	Pass
NVNT	3-DH5	2441	Ant1	-54.77	-20	Pass
NVNT	3-DH5	2480	Ant1	-53.88	-20	Pass



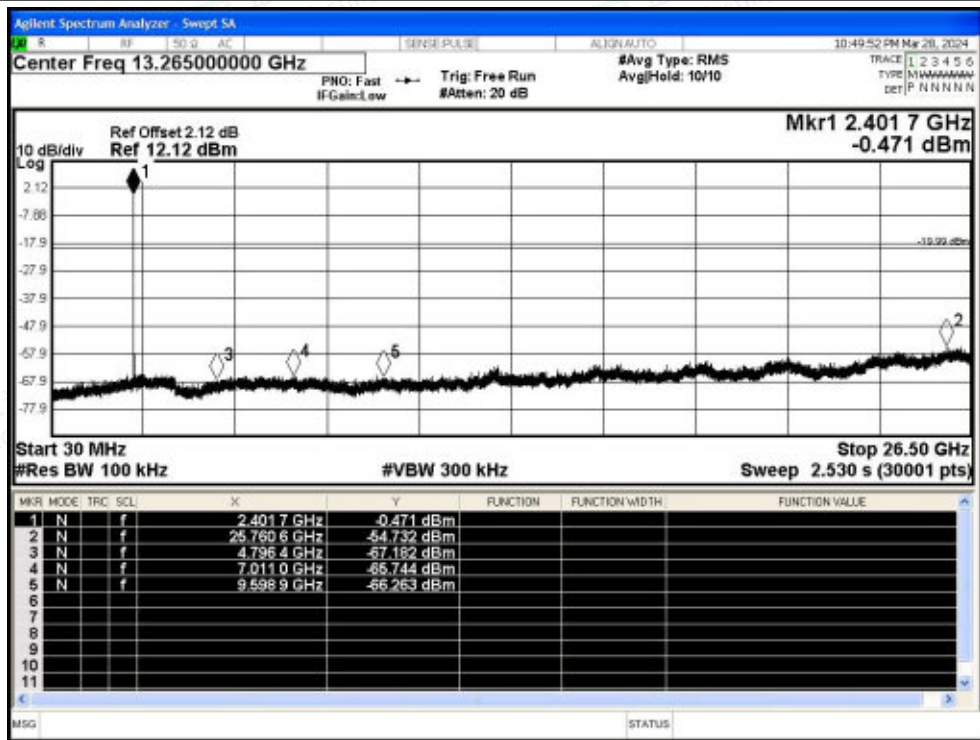


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref

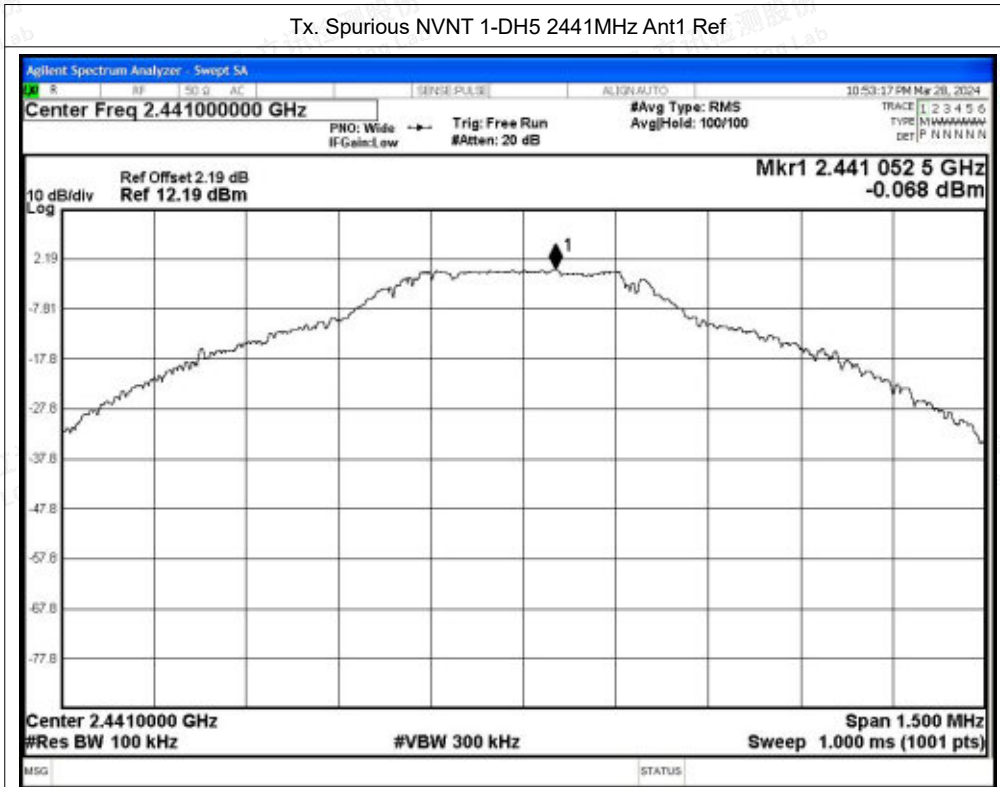


Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission

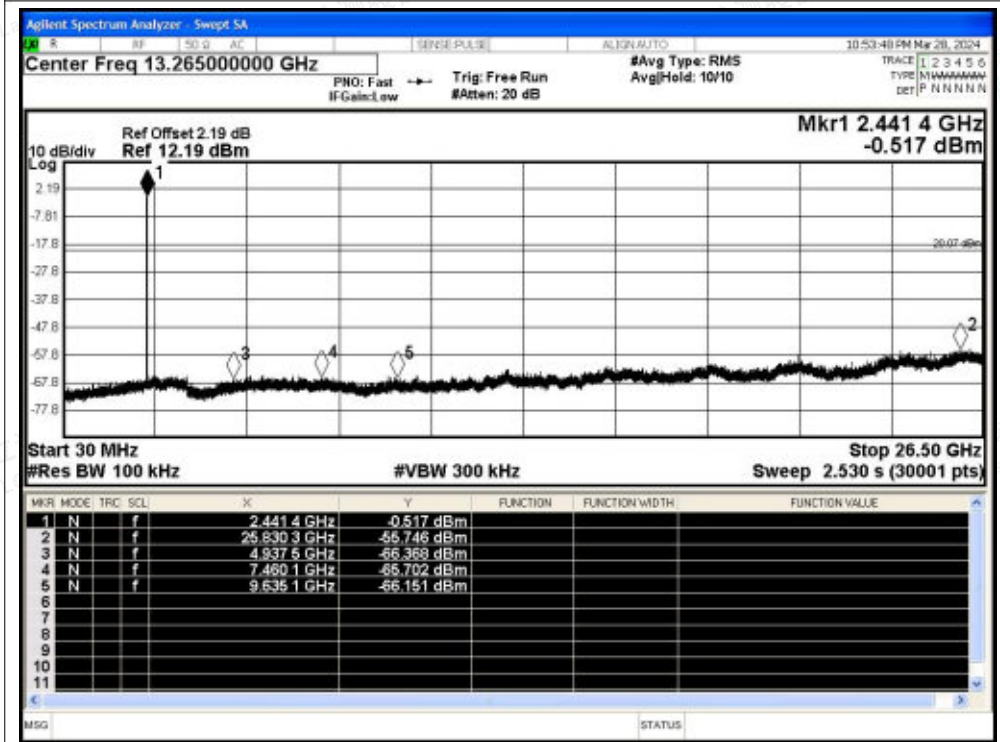




Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref

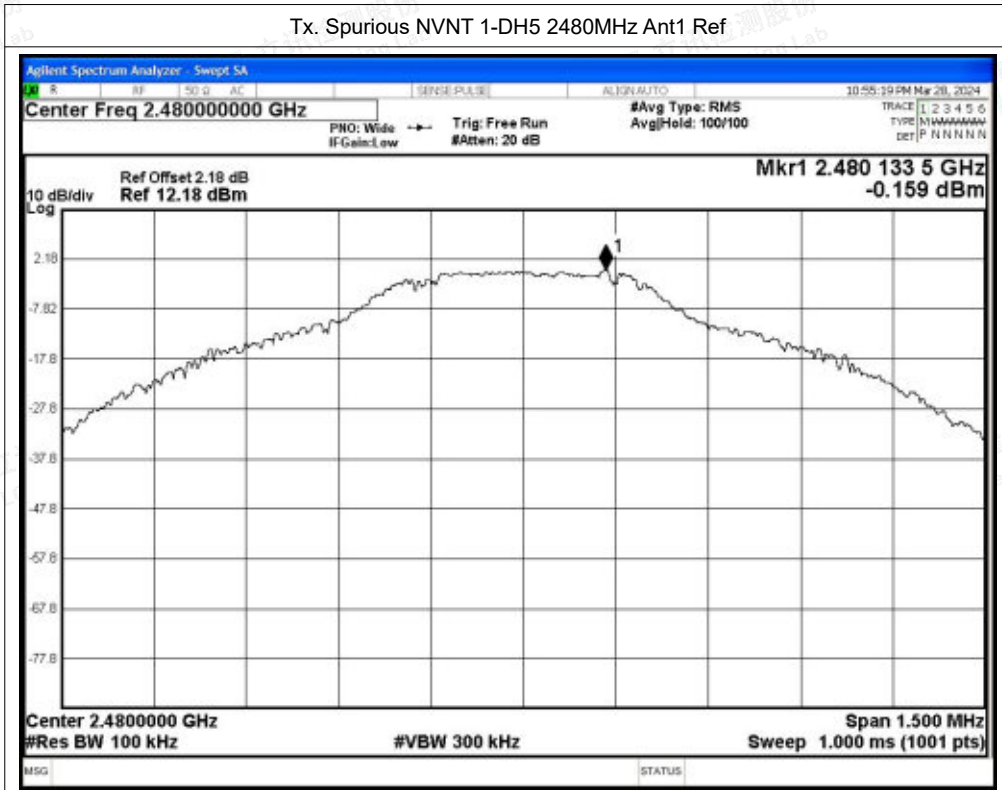


Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission

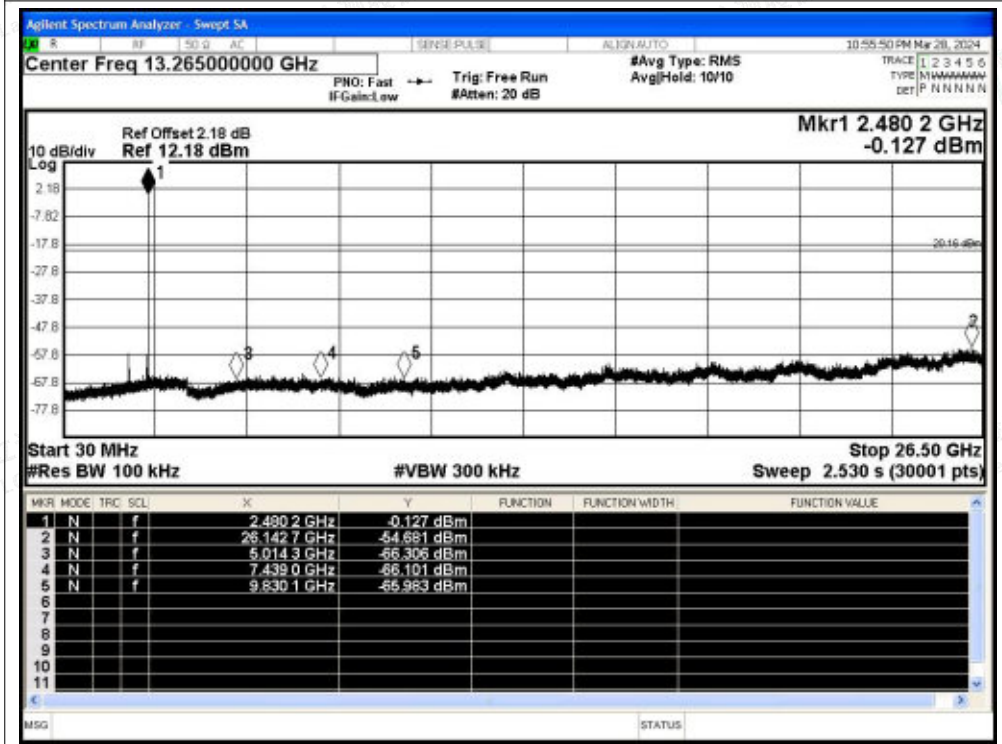




Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref

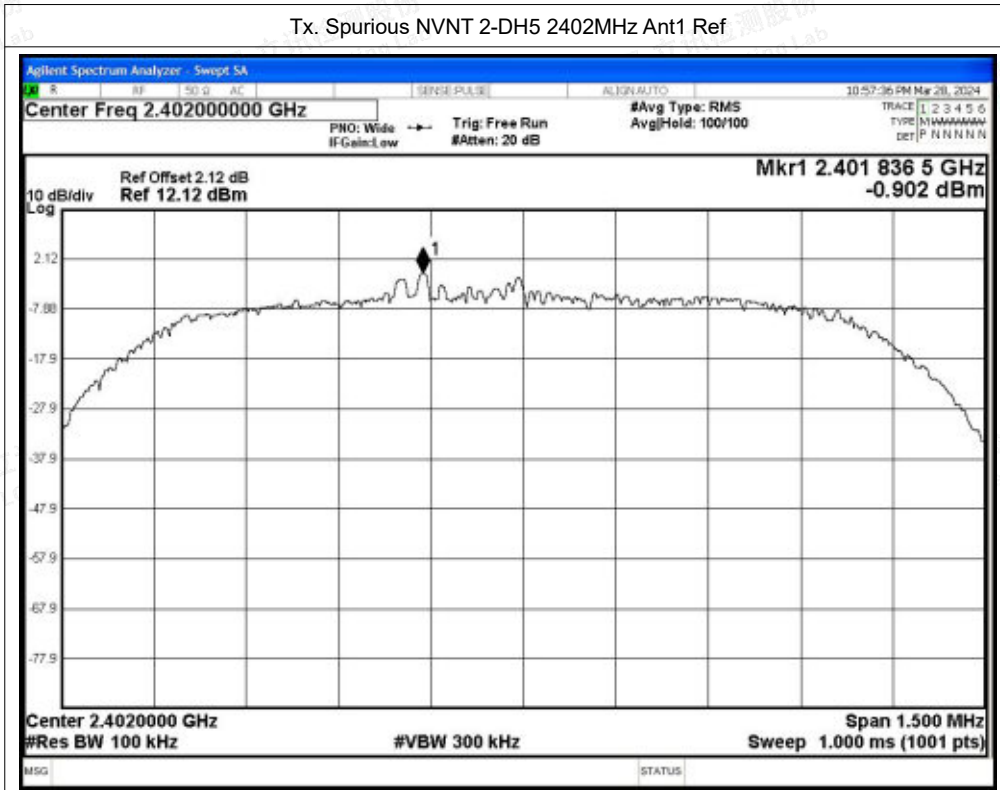


Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission

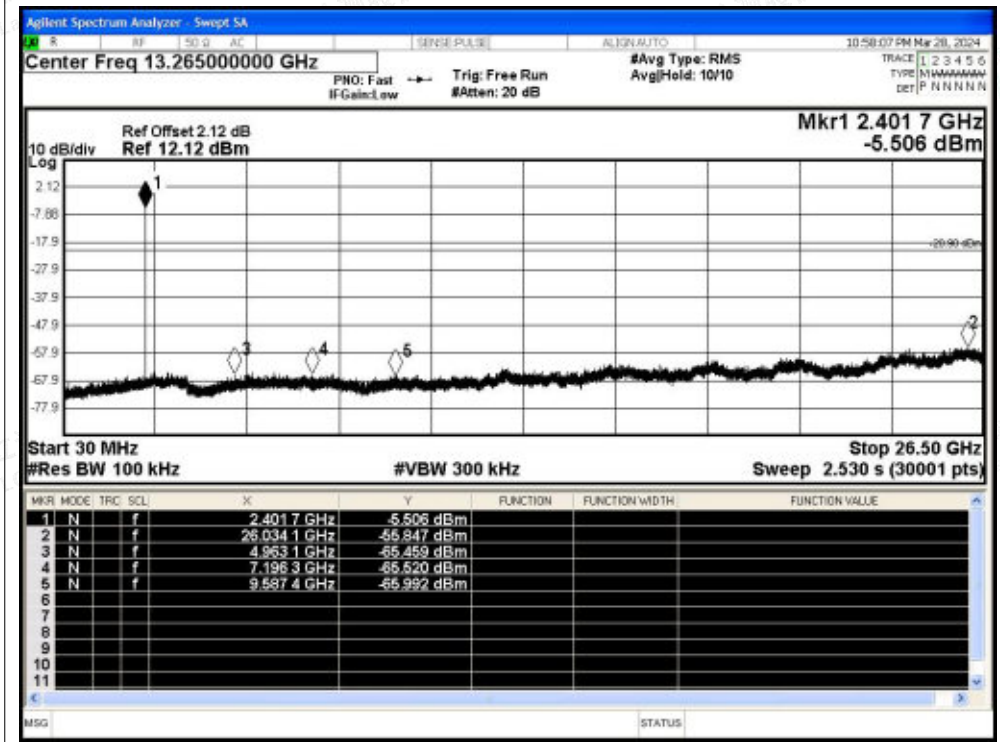




Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref

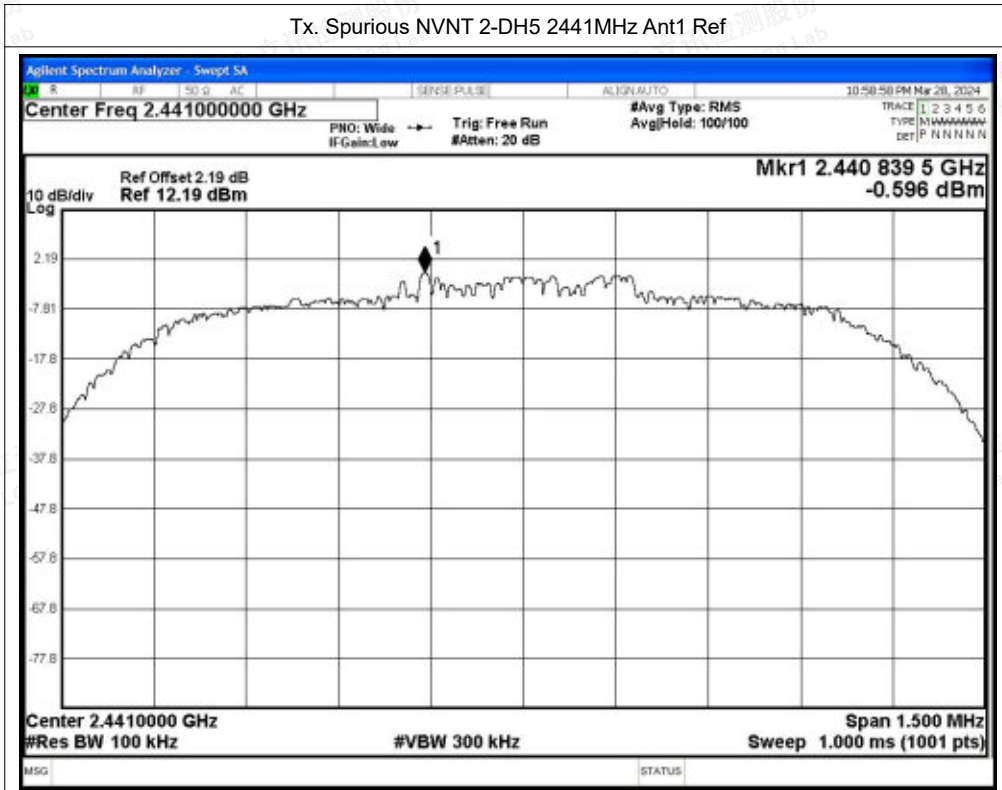


Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission

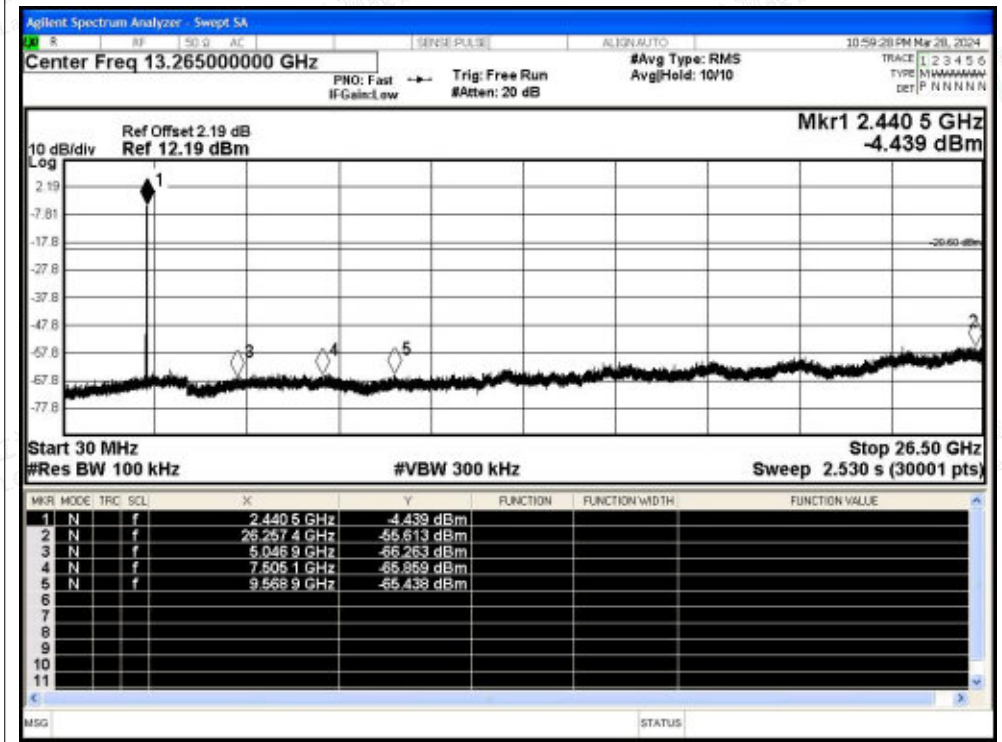




Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref

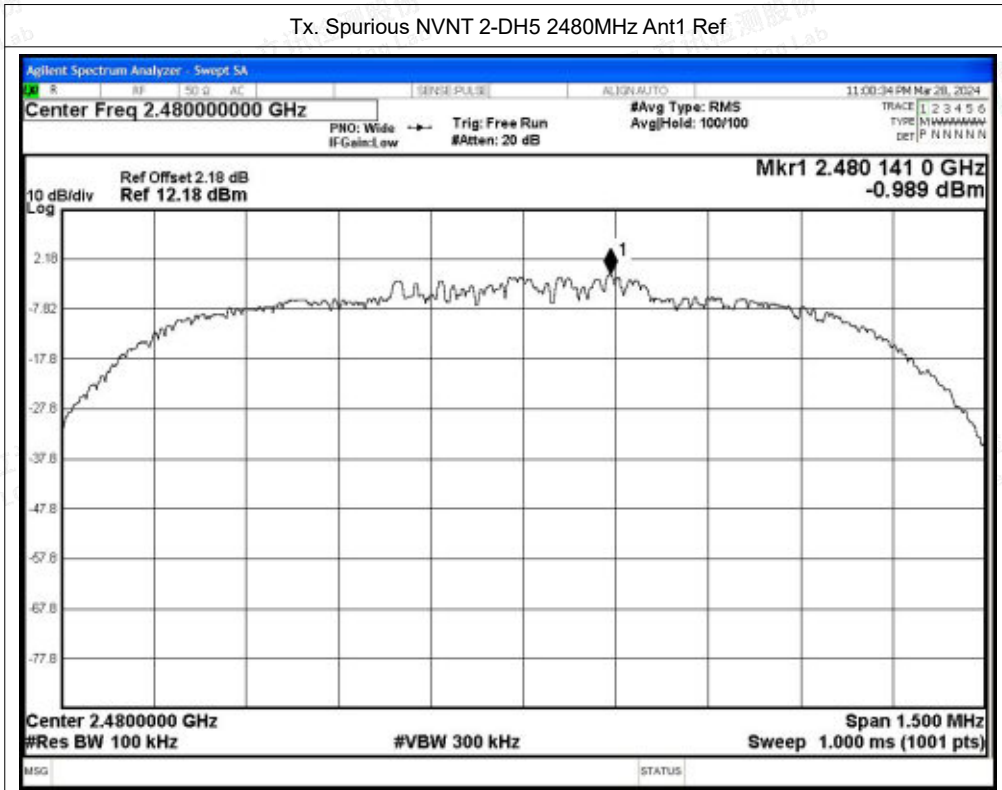


Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission

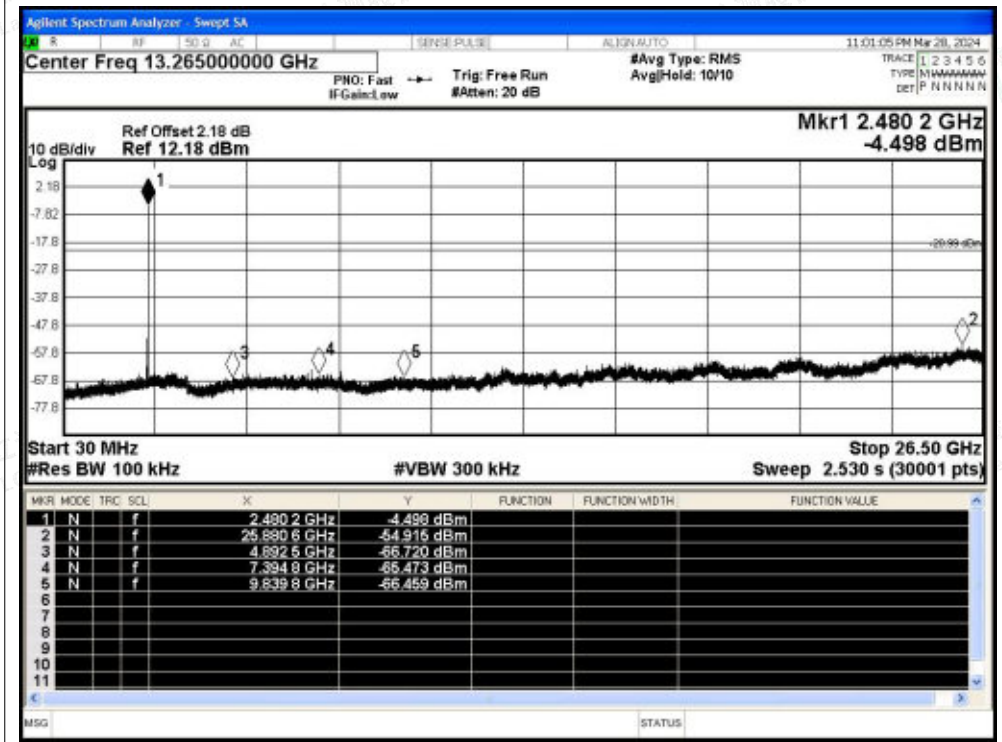




Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref

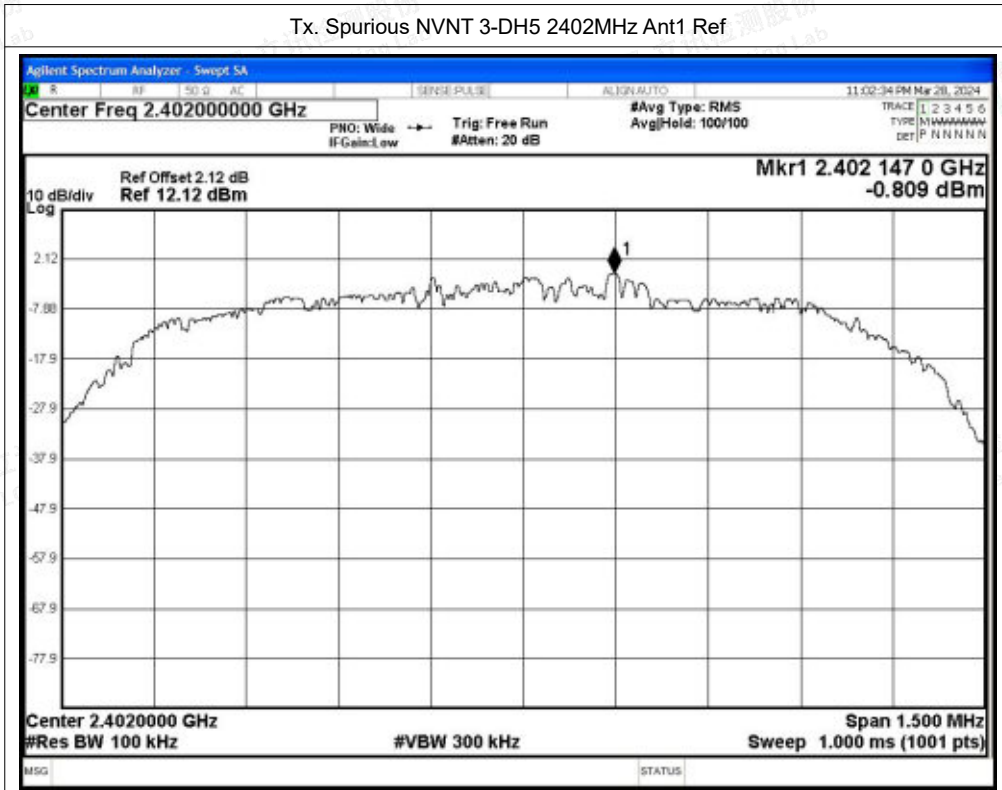


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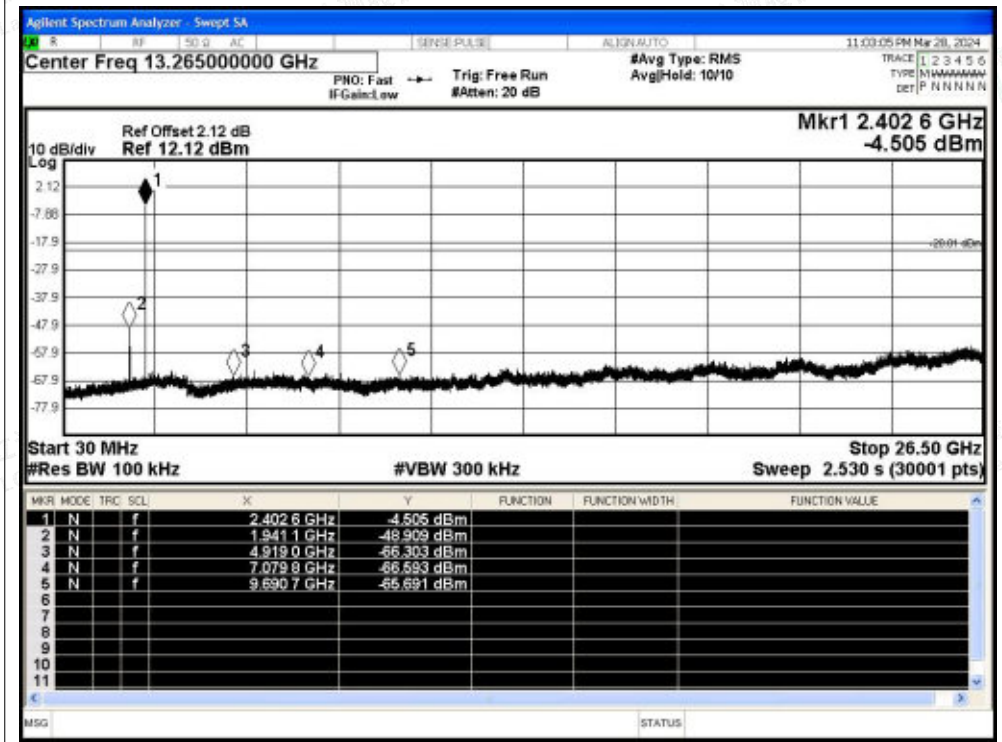




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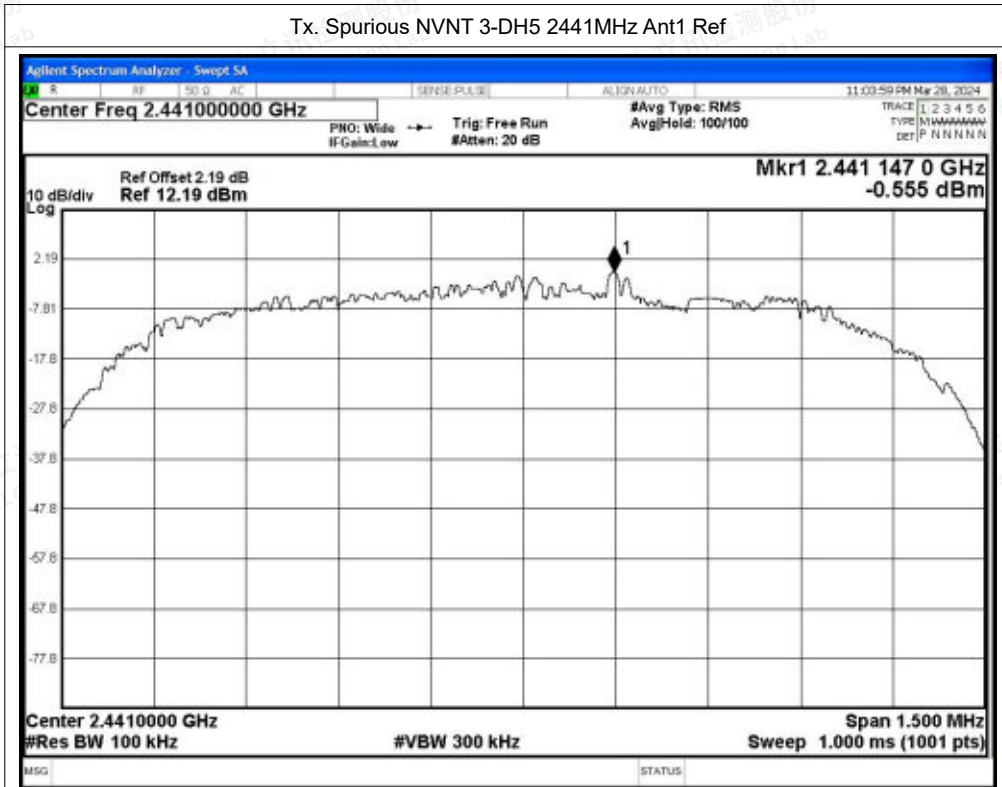


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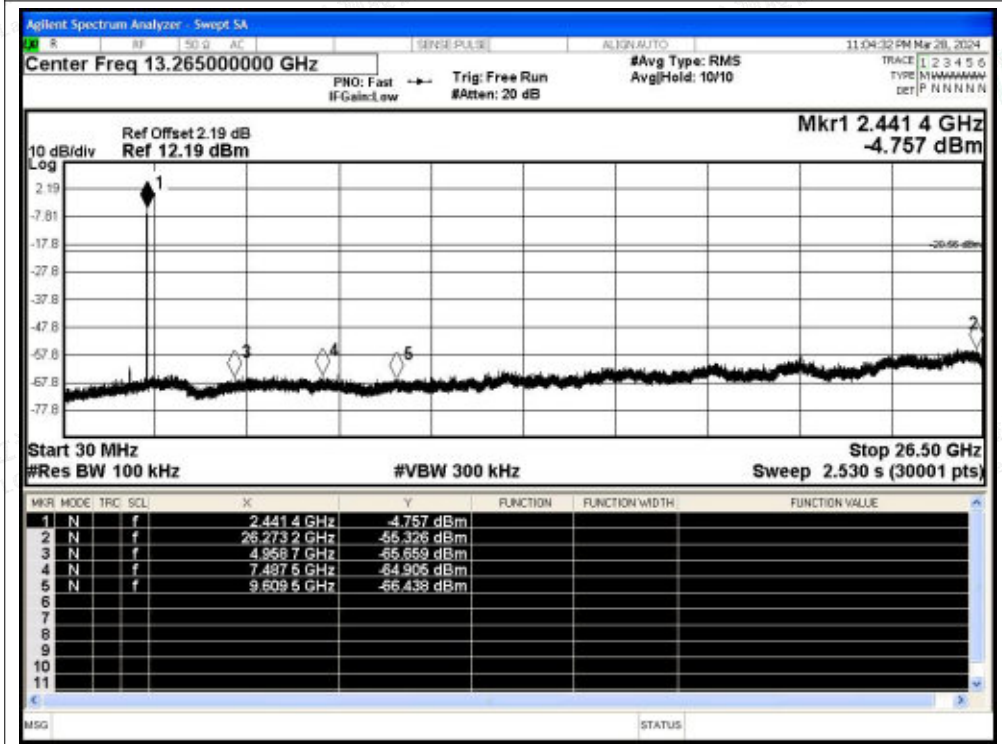




Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Ref

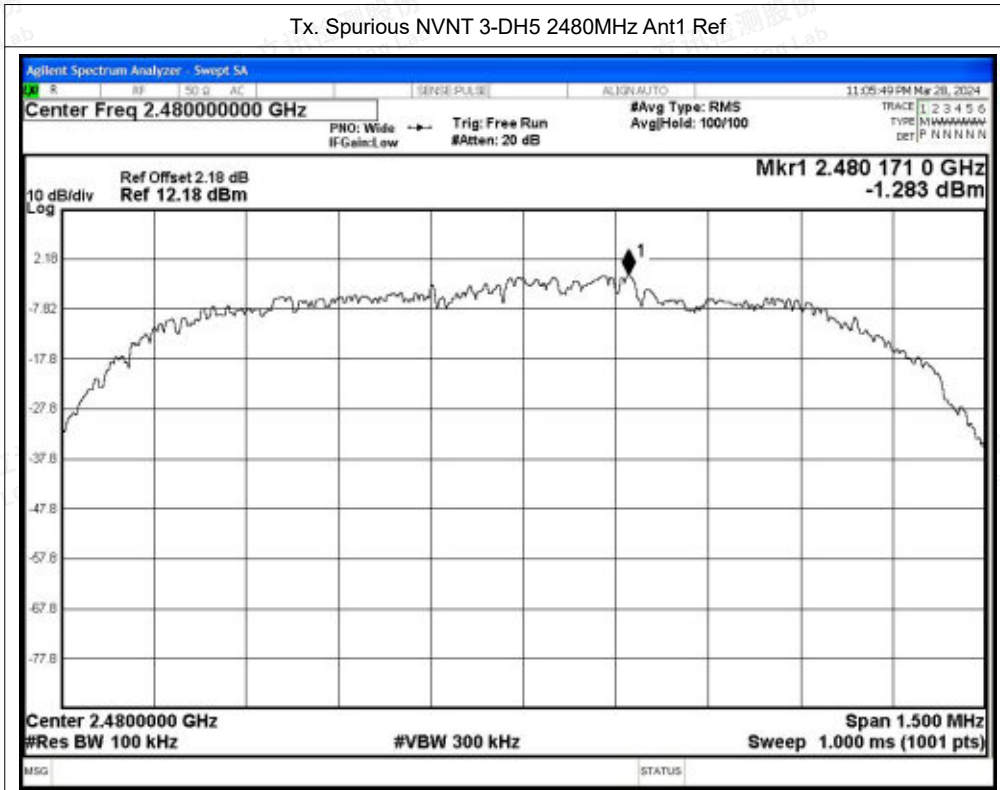


Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Emission

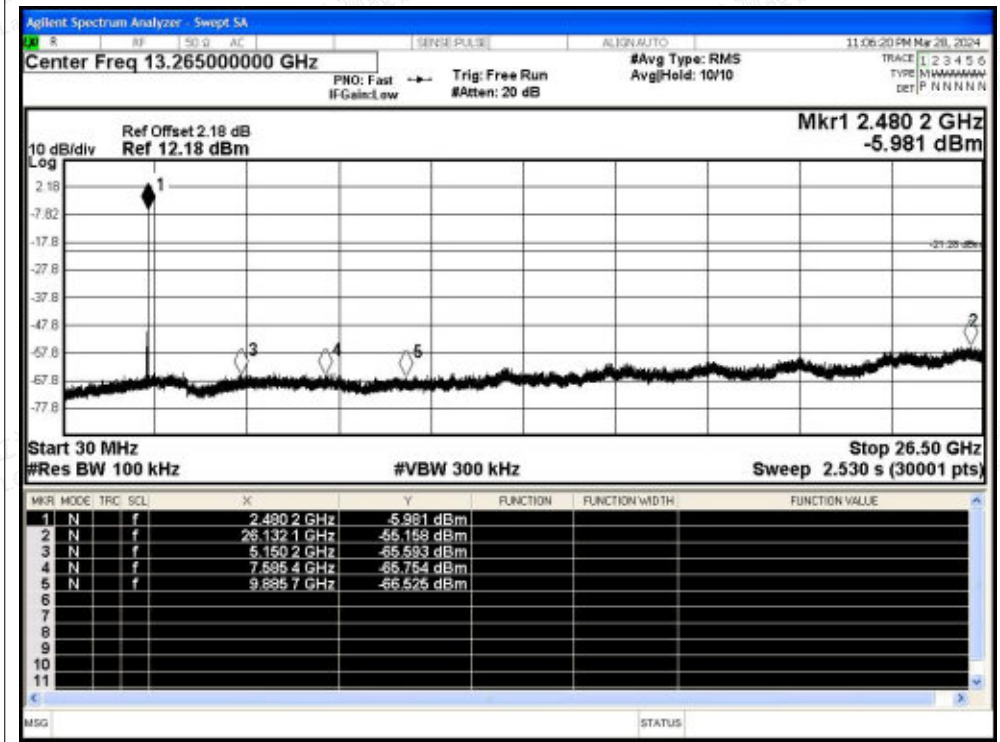




Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Emission





A.8 Duty Cycle

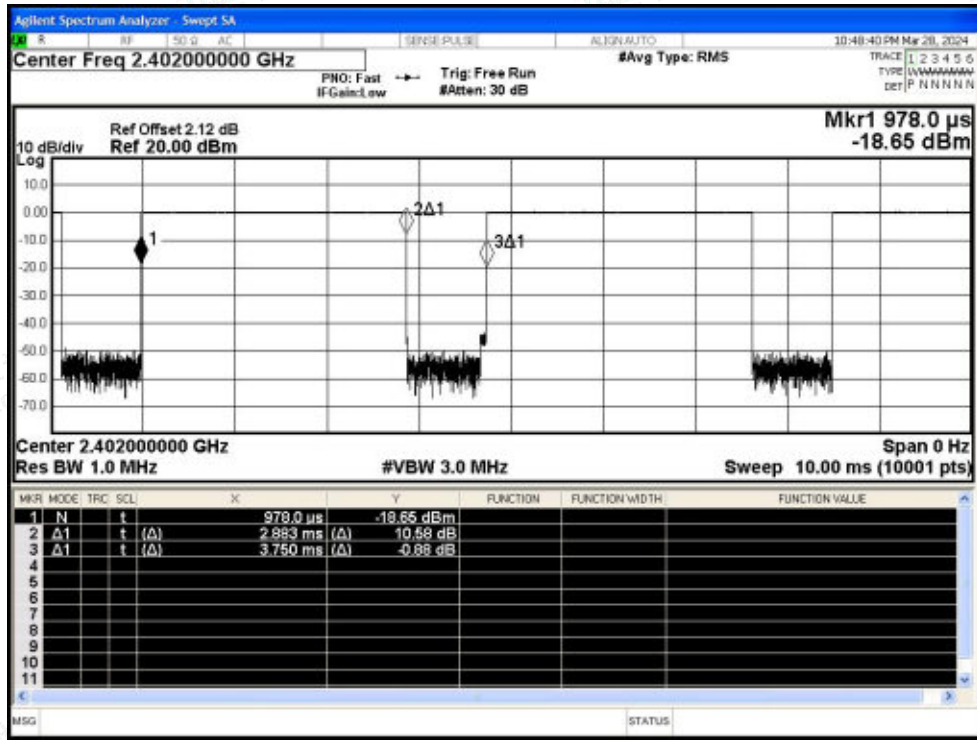
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	1-DH5	2402	Ant1	76.88	1.14	0.35
NVNT	1-DH5	2441	Ant1	76.88	1.14	0.35
NVNT	1-DH5	2480	Ant1	76.88	1.14	0.35
NVNT	2-DH5	2402	Ant1	76.96	1.14	0.35
NVNT	2-DH5	2441	Ant1	76.96	1.14	0.35
NVNT	2-DH5	2480	Ant1	76.96	1.14	0.35
NVNT	3-DH5	2402	Ant1	77.04	1.13	0.35
NVNT	3-DH5	2441	Ant1	77.01	1.13	0.35
NVNT	3-DH5	2480	Ant1	77.01	1.13	0.35



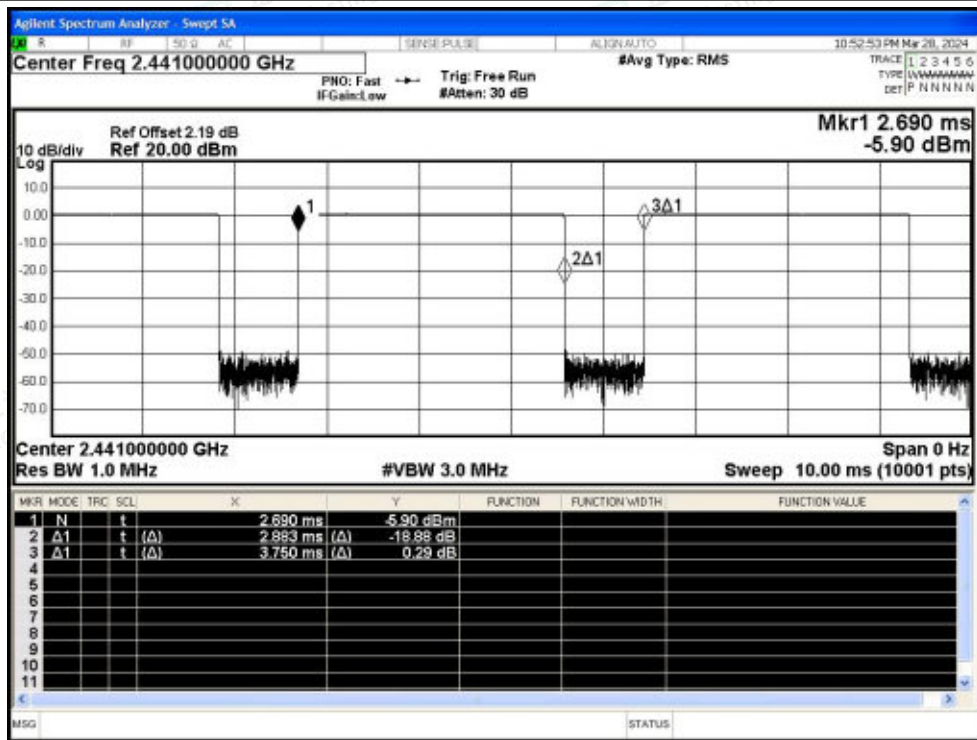


Test Graphs

Duty Cycle NVNT 1-DH5 2402MHz Ant1

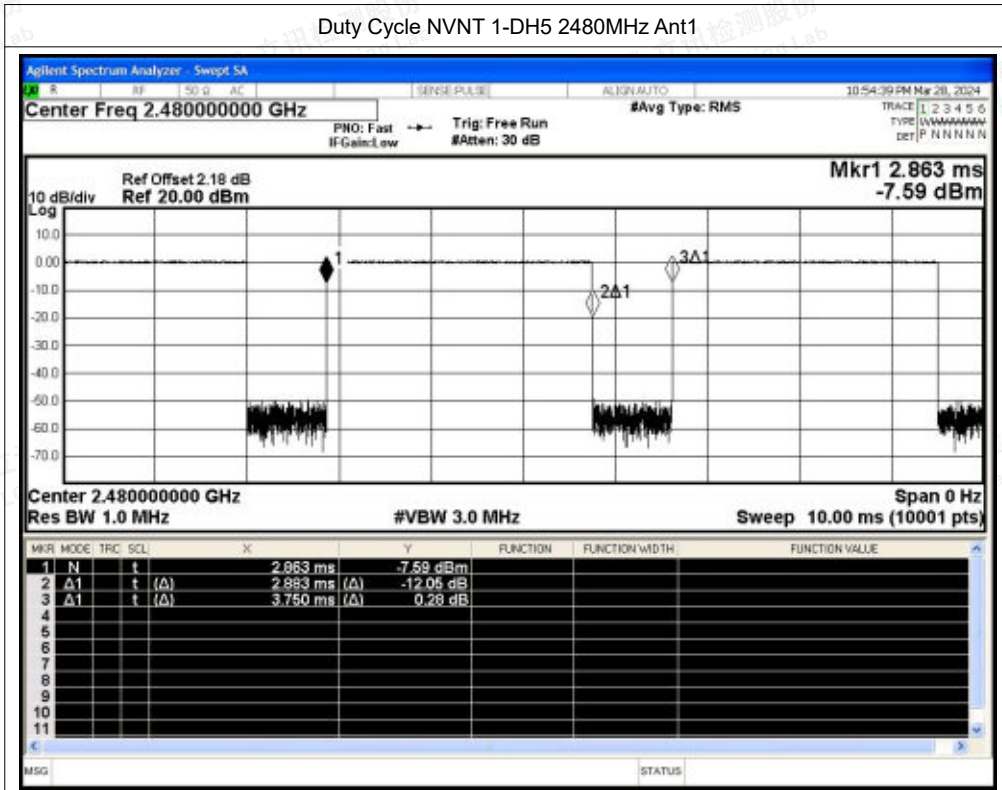


Duty Cycle NVNT 1-DH5 2441MHz Ant1

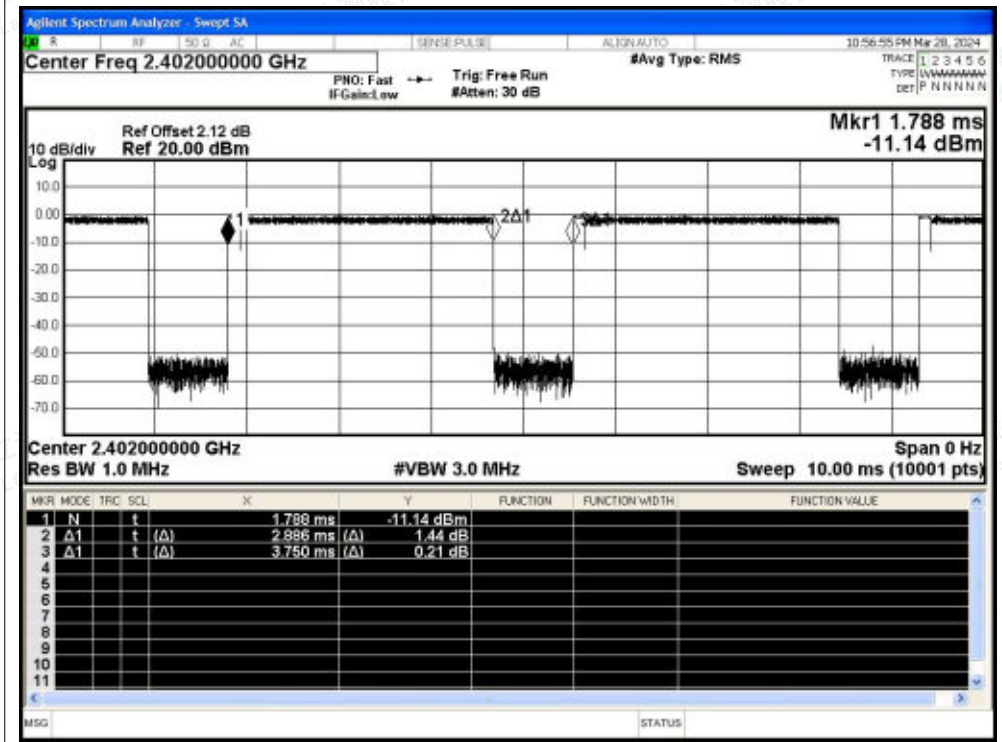




Duty Cycle NVNT 1-DH5 2480MHz Ant1

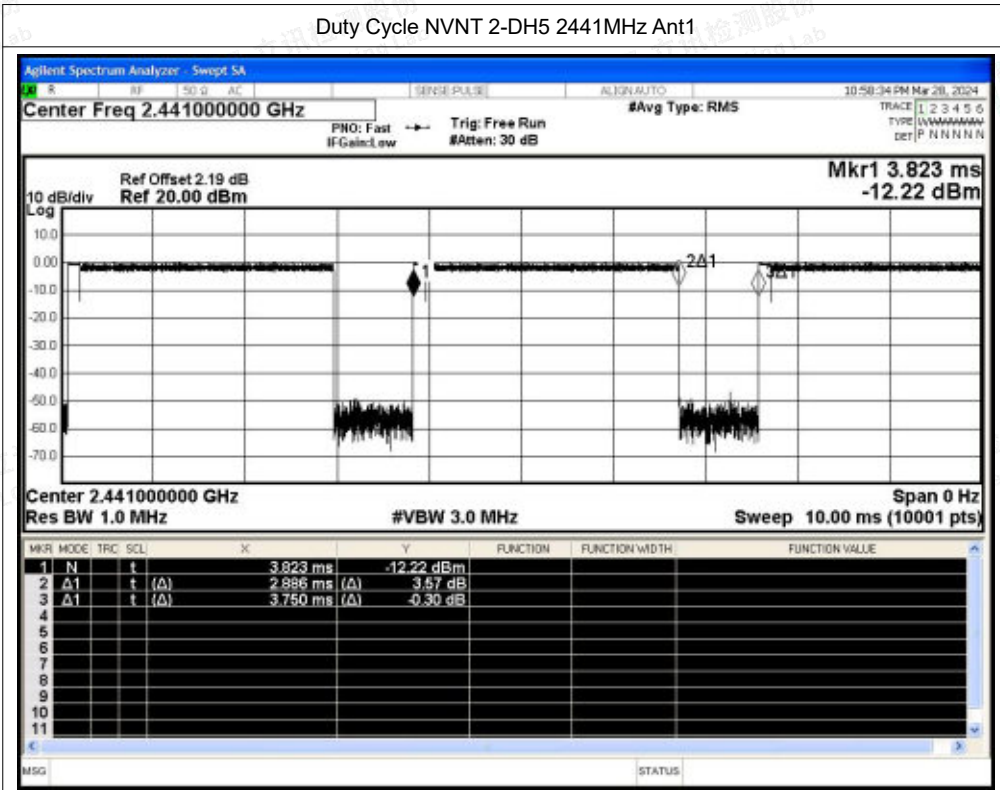


Duty Cycle NVNT 2-DH5 2402MHz Ant1

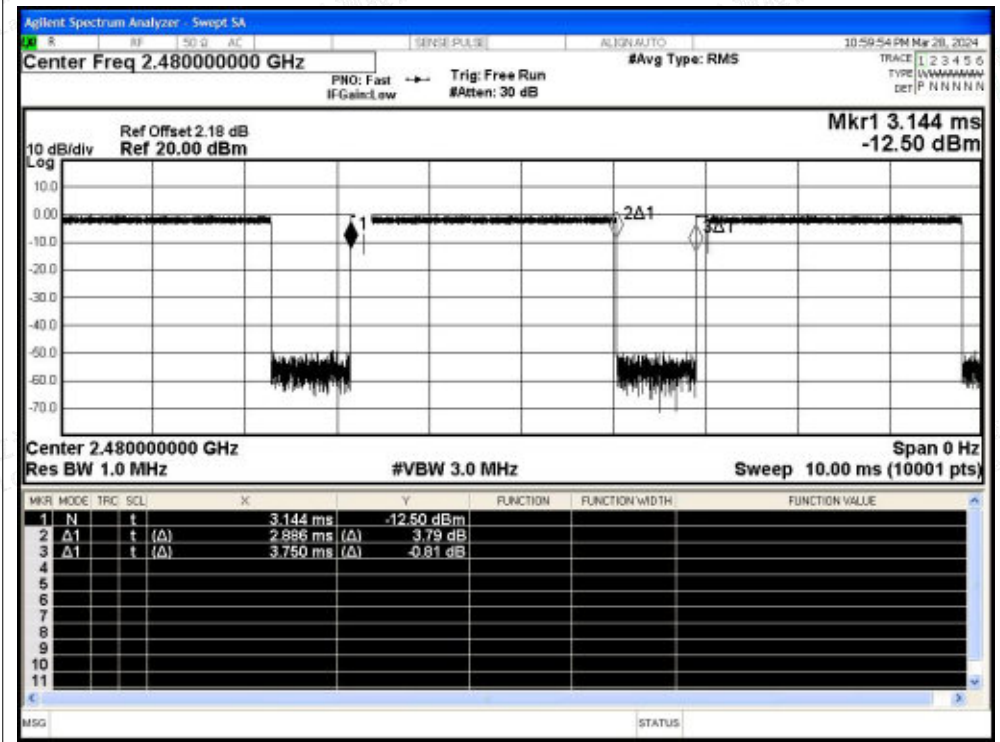




Duty Cycle NVNT 2-DH5 2441MHz Ant1

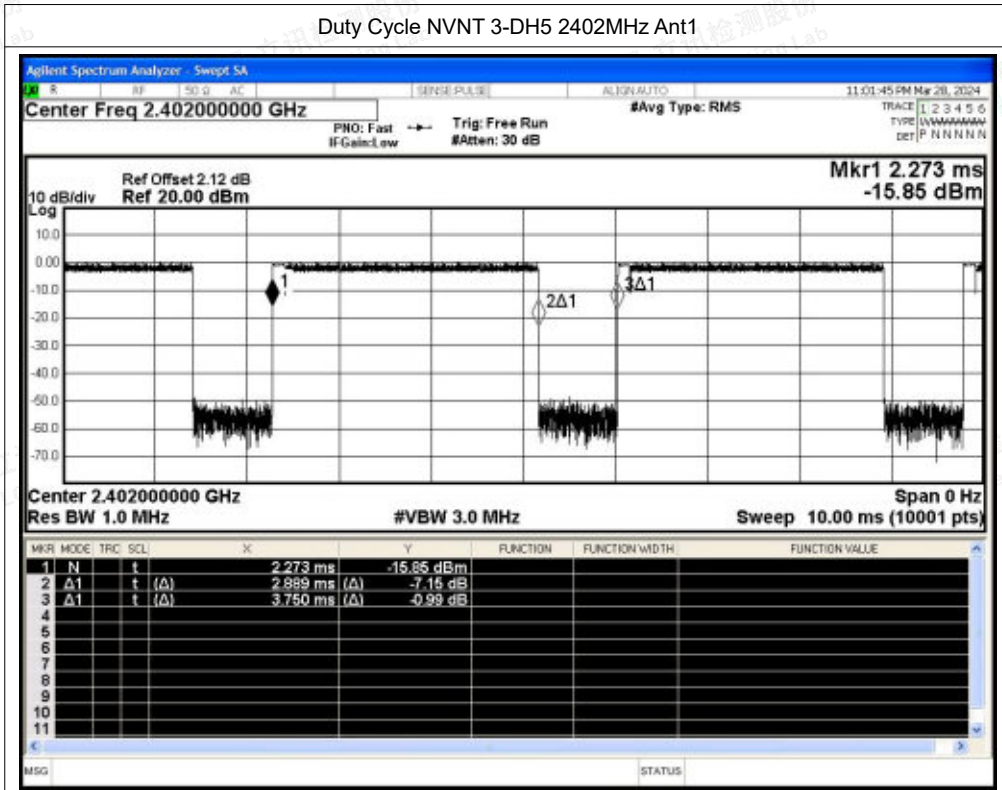


Duty Cycle NVNT 2-DH5 2480MHz Ant1

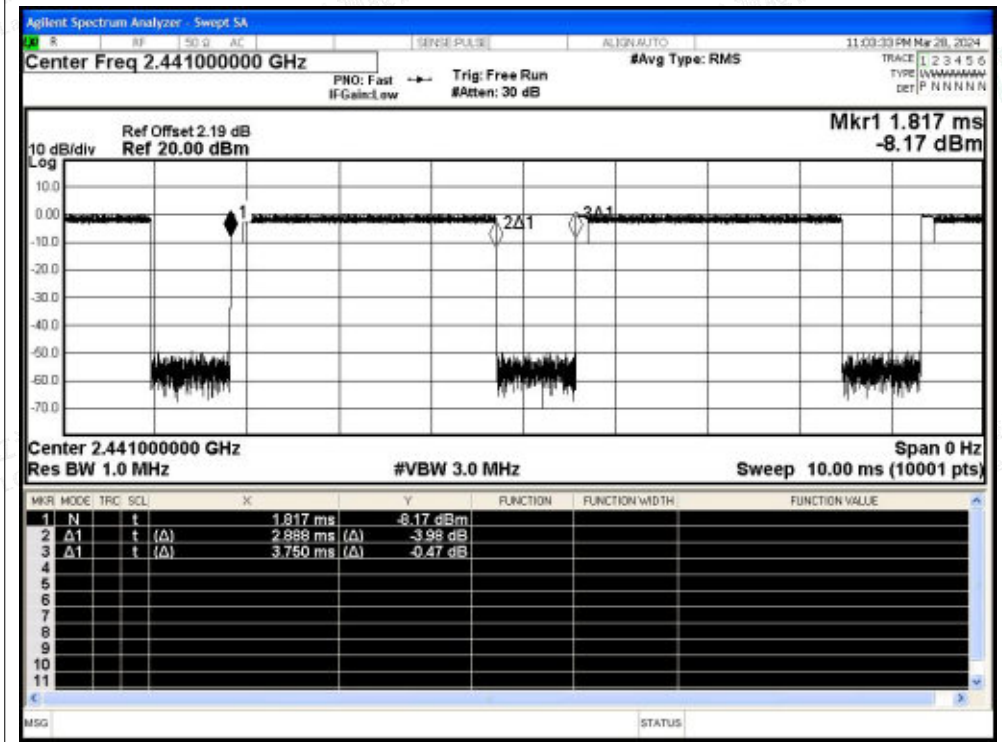




Duty Cycle NVNT 3-DH5 2402MHz Ant1

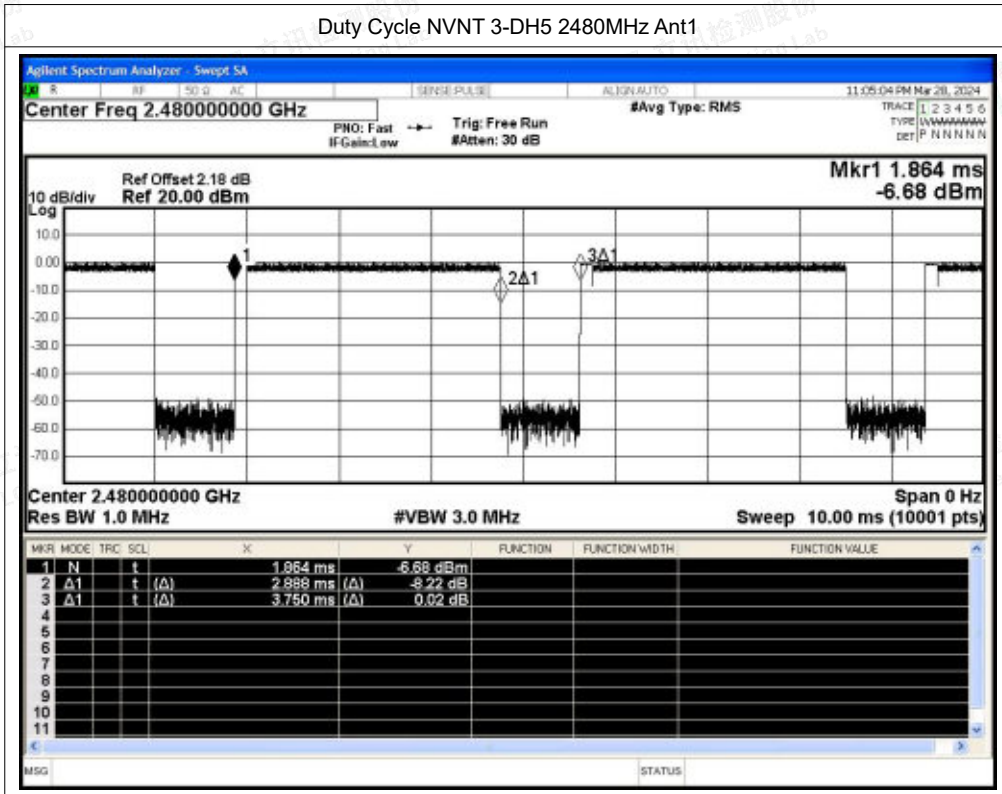


Duty Cycle NVNT 3-DH5 2441MHz Ant1





Duty Cycle NVNT 3-DH5 2480MHz Ant1





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	Ant1	No-Hopping	2310	-50.87	2	-	46.39	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-58.76	2	1.14	39.64	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2373.264	-47.32	2	-	49.94	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2363.376	-57.31	2	1.14	41.09	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-50.54	2	-	46.72	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-58.31	2	1.14	40.09	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-49.55	2	-	47.71	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-57.87	2	1.14	40.53	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2494.888	-47.31	2	-	49.95	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2486.104	-57.15	2	1.14	41.25	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-48.81	2	-	48.45	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-57.85	2	1.14	40.55	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-50.8	2	-	46.46	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-58.47	2	1.14	39.93	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2379.216	-47.34	2	-	49.92	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2386.8	-57.51	2	1.14	40.89	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-49.76	2	-	47.5	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-58.28	2	1.14	40.12	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-50.29	2	-	46.97	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-57.67	2	1.14	40.73	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2489.152	-46.08	2	-	51.18	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2485.264	-57.27	2	1.14	41.13	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-49.64	2	-	47.62	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-58.17	2	1.14	40.23	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-51.35	2	-	45.91	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-58.79	2	1.13	39.6	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2327.472	-47.38	2	-	49.88	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2379.12	-57.61	2	1.13	40.78	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-50.7	2	-	46.56	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-58.76	2	1.13	39.63	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-49.83	2	-	47.43	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-57.68	2	1.13	40.71	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2498.536	-46.66	2	-	50.6	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2495.704	-57.09	2	1.13	41.3	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-49.6	2	-	47.66	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-58.19	2	1.13	40.2	Average	54	Pass

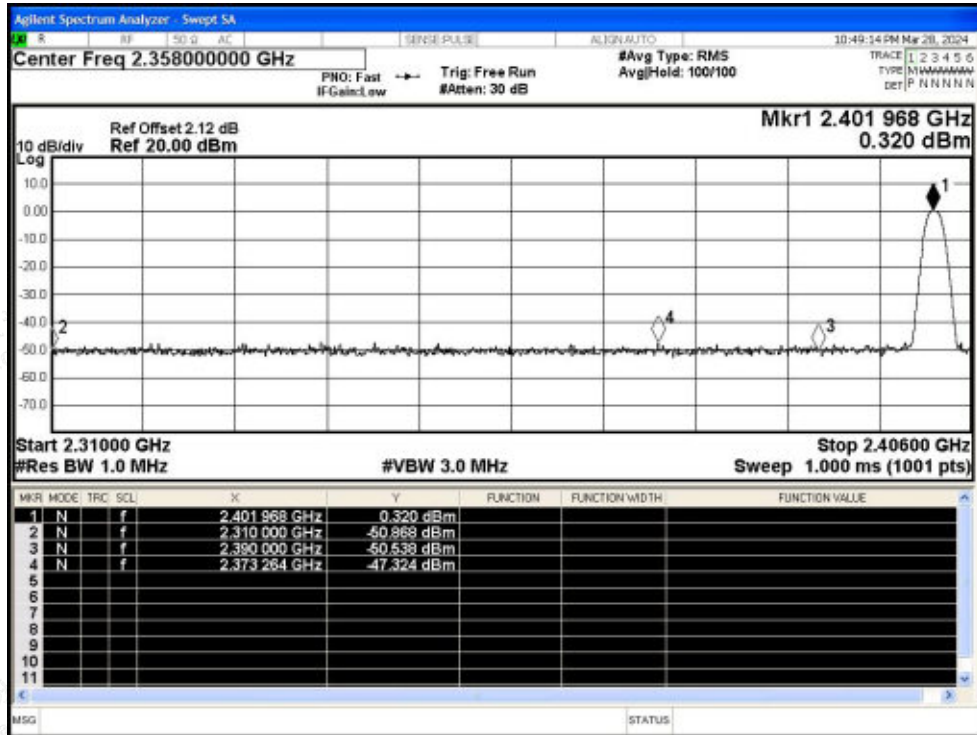


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 Scan code to check authenticity

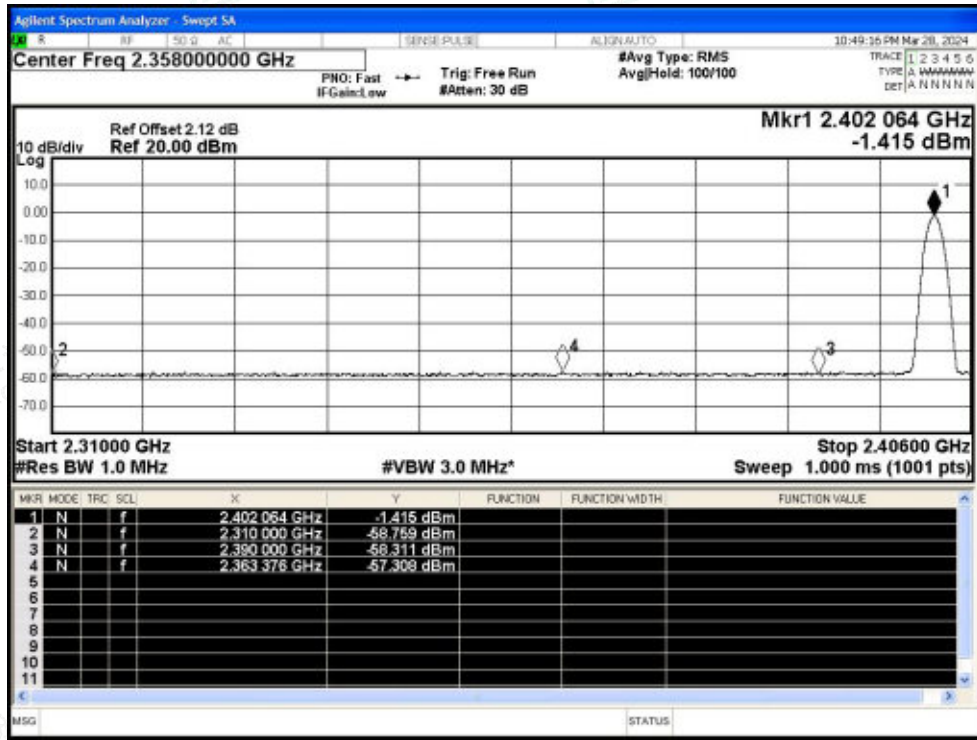


Test Graphs

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

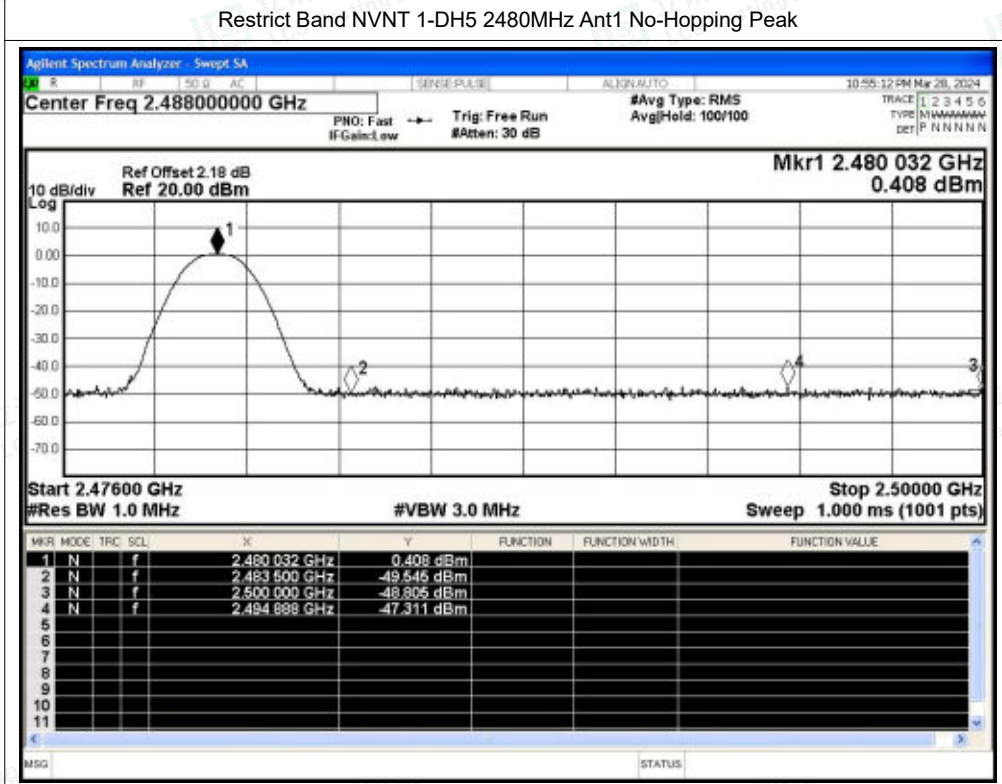


Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Average

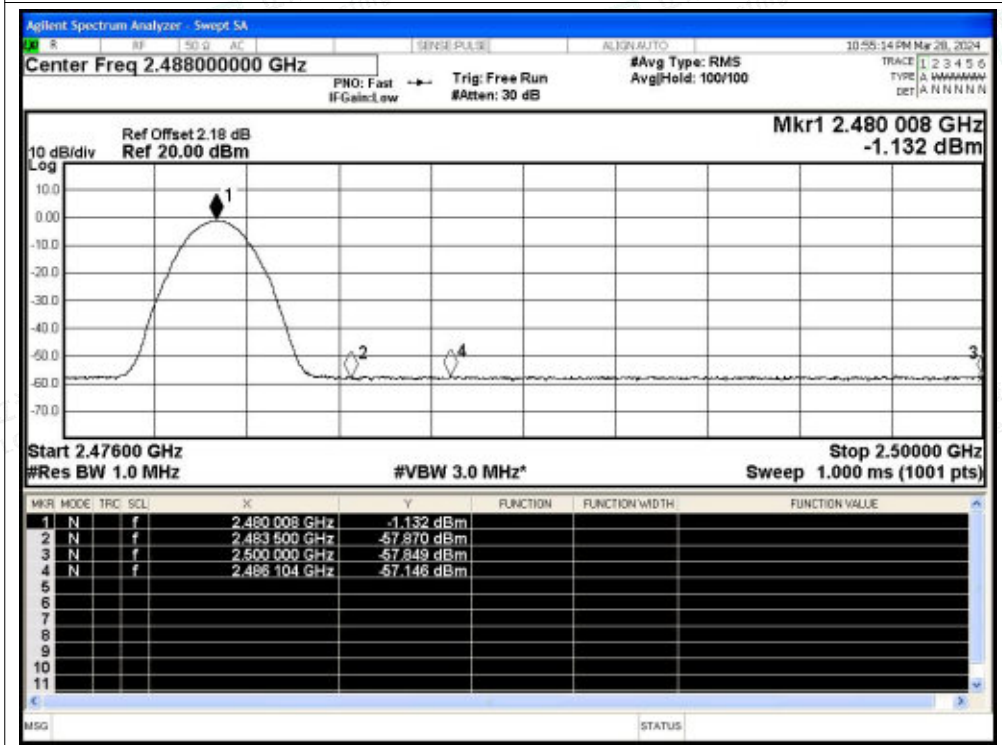




Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Peak

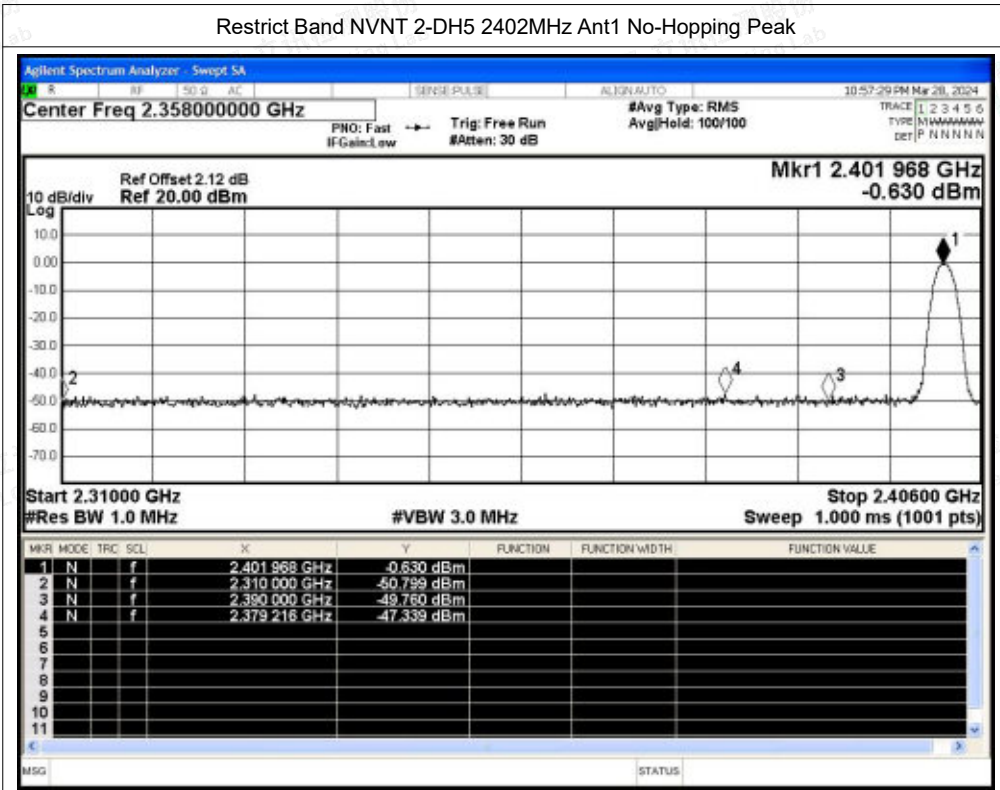


Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Average

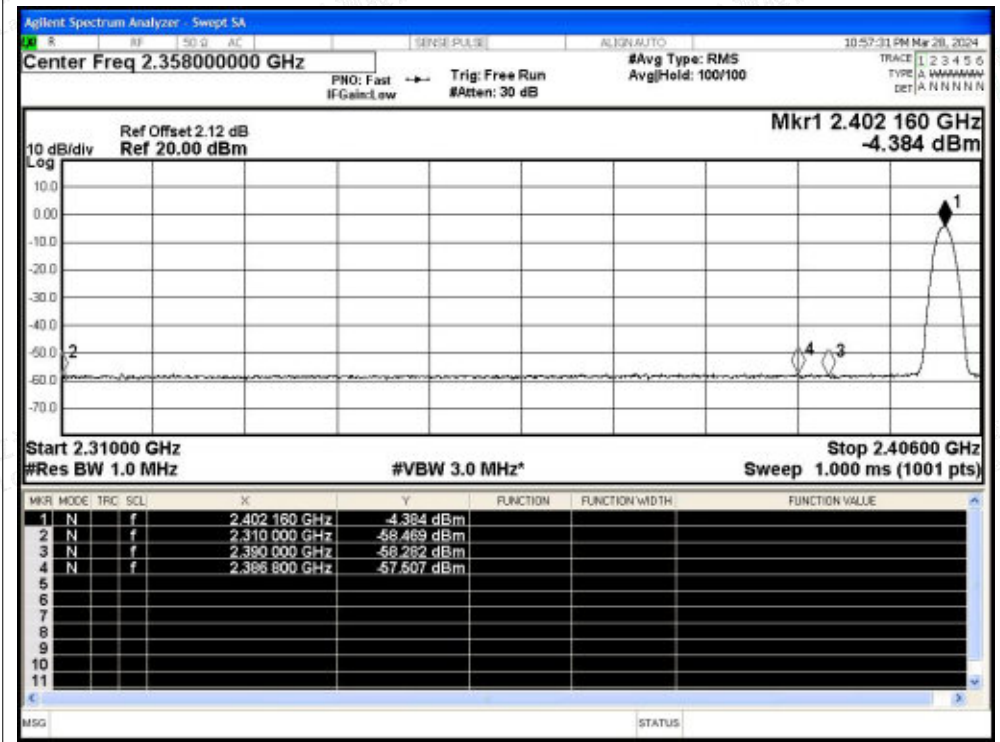




Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Peak

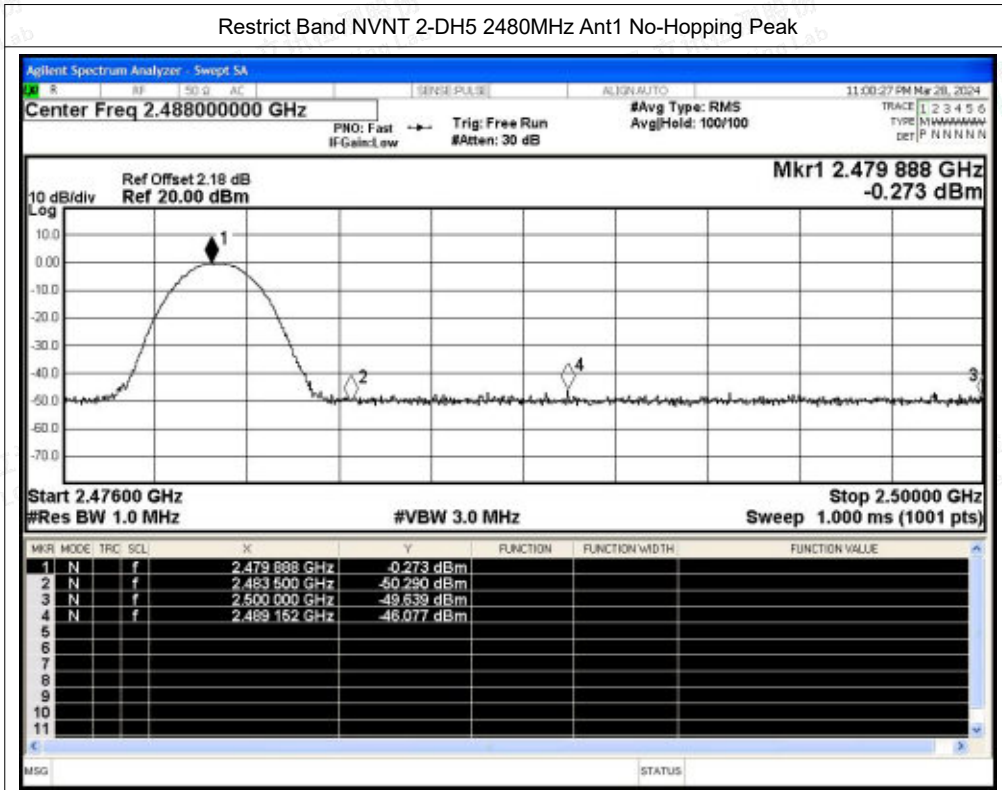


Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Average

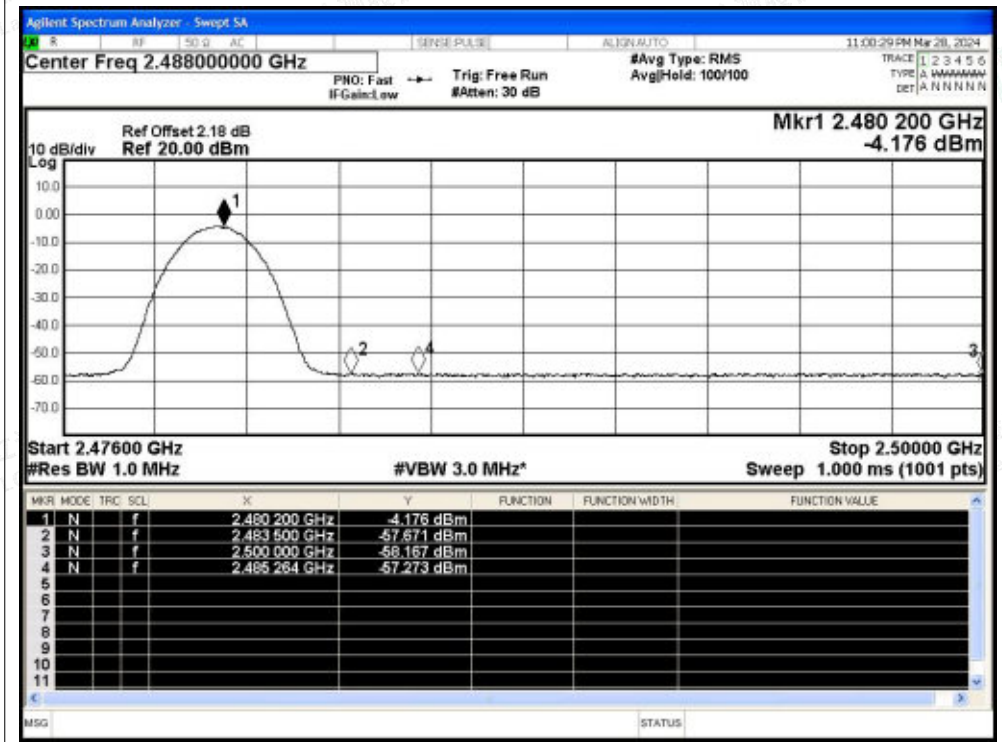




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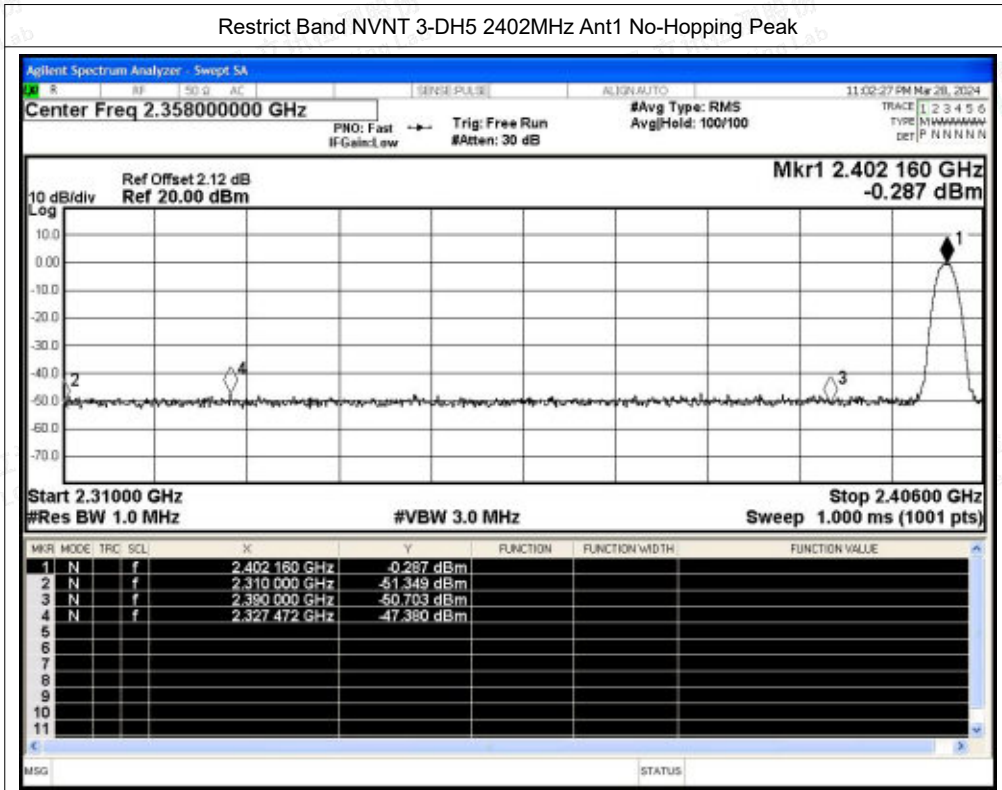


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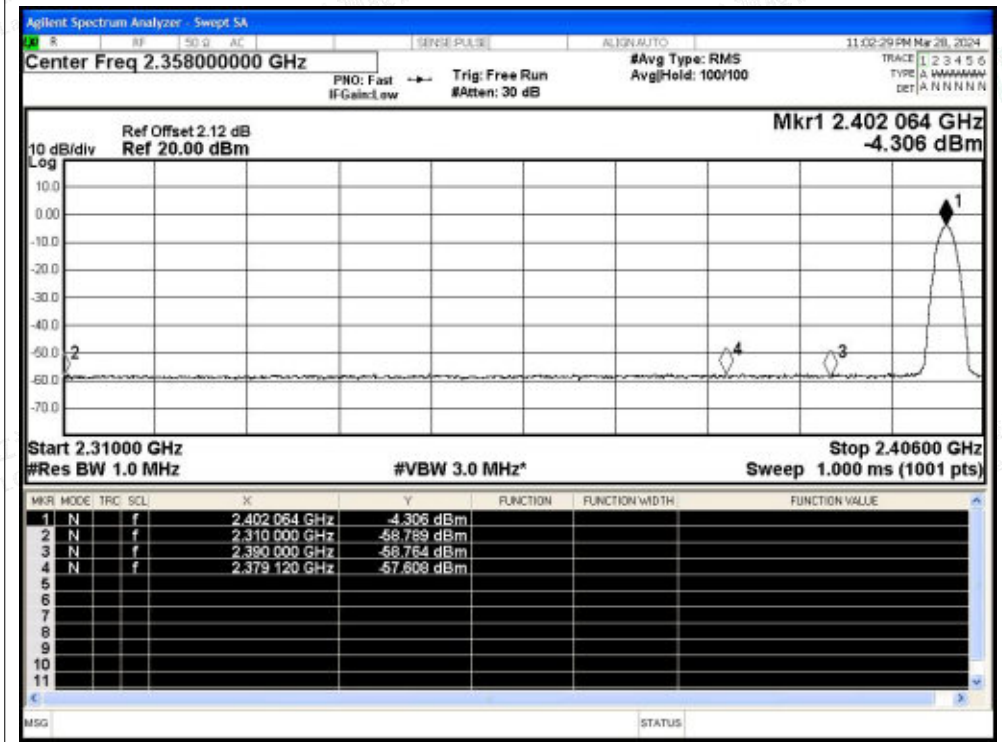




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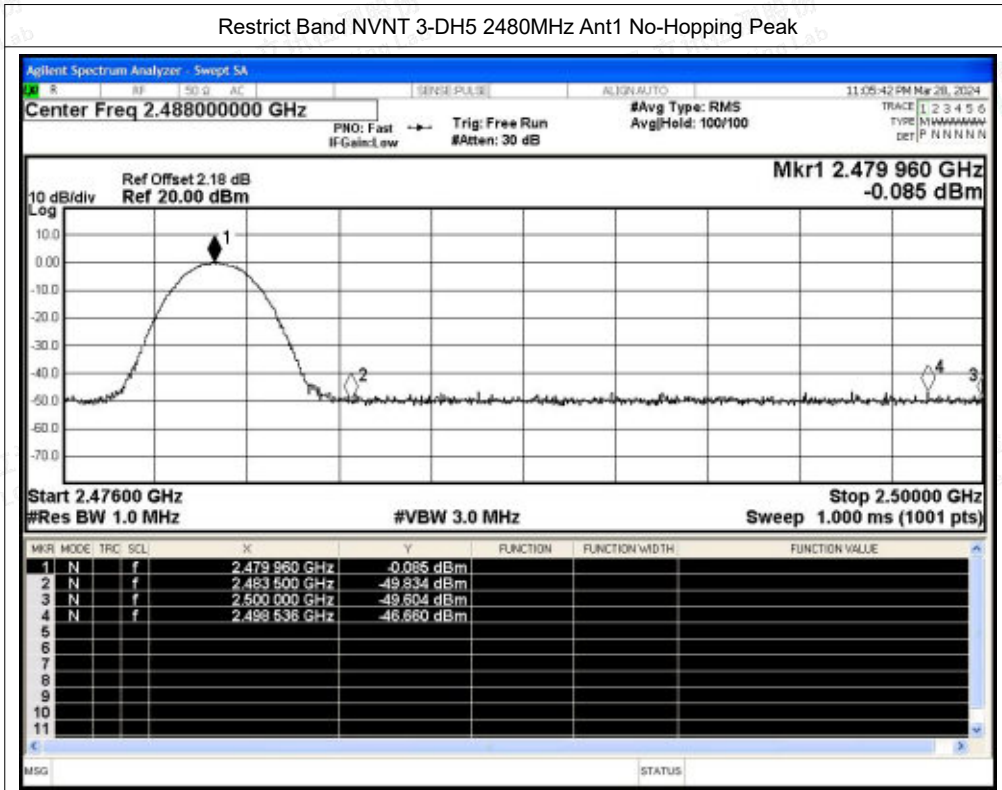


Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Average





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



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

