Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Fujifilm printciao smart2

Test Model: printciao smart2

Environmental Conditions

Temperature:	23.8 ° C
Relative Humidity:	52.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Paddi Chen
Supervised by:	Nick Peng

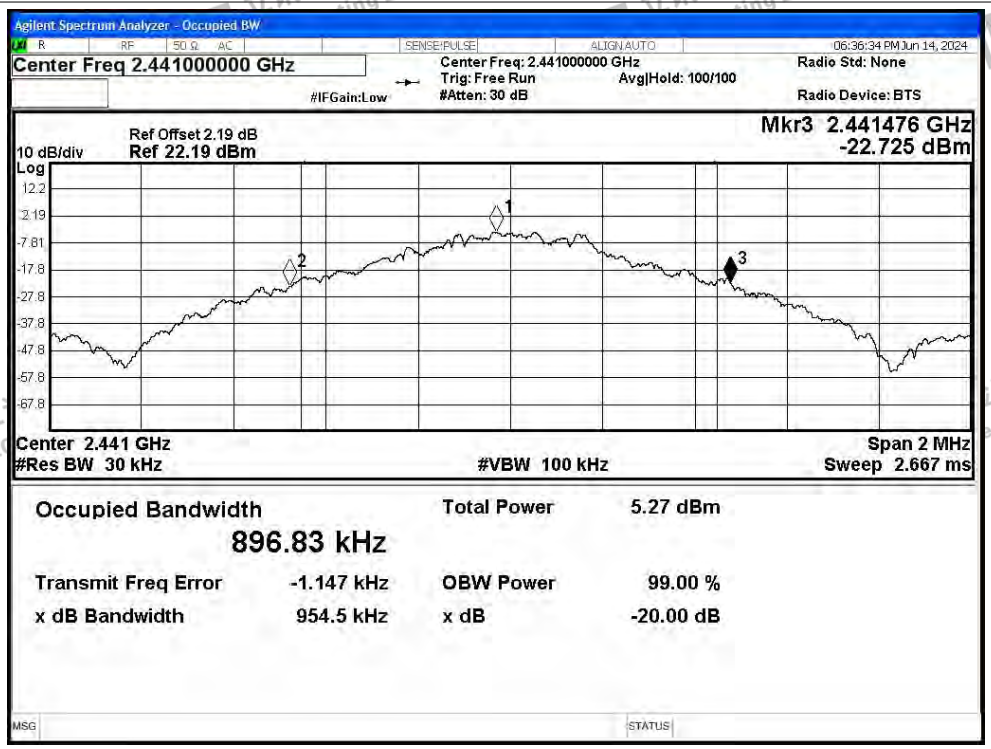
A.1 -20dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	1.015	N/A	Pass
NVNT	1-DH5	2441	Ant1	0.955	N/A	Pass
NVNT	1-DH5	2480	Ant1	1.011	N/A	Pass
NVNT	2-DH5	2402	Ant1	1.303	N/A	Pass
NVNT	2-DH5	2441	Ant1	1.279	N/A	Pass
NVNT	2-DH5	2480	Ant1	1.288	N/A	Pass
NVNT	3-DH5	2402	Ant1	1.289	N/A	Pass
NVNT	3-DH5	2441	Ant1	1.293	N/A	Pass
NVNT	3-DH5	2480	Ant1	1.311	N/A	Pass

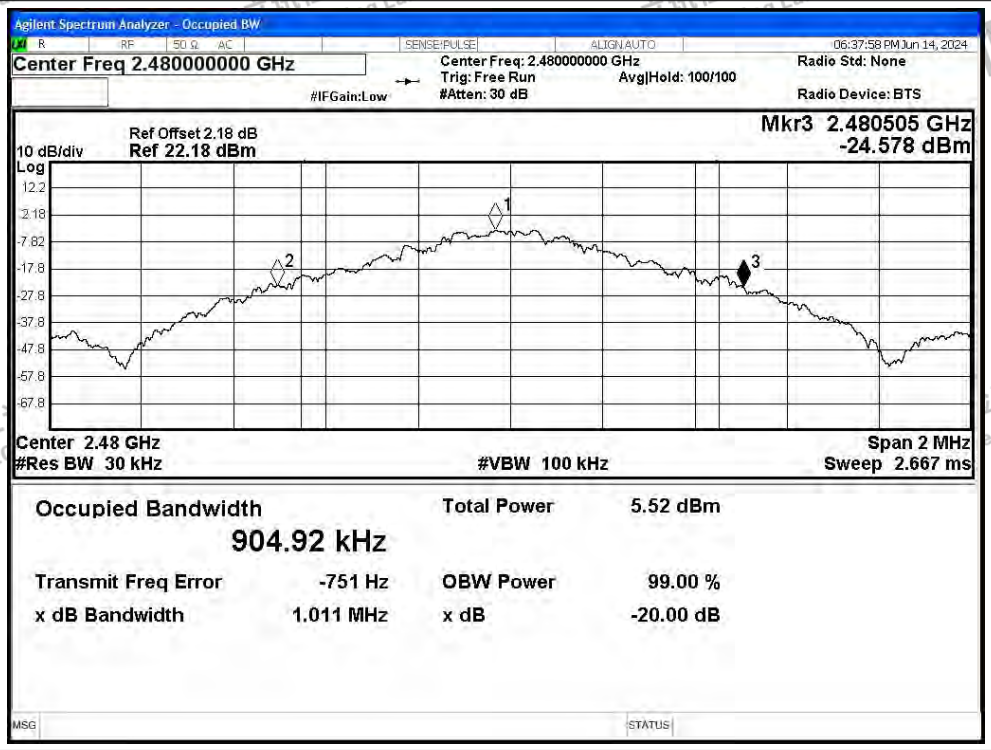
Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1

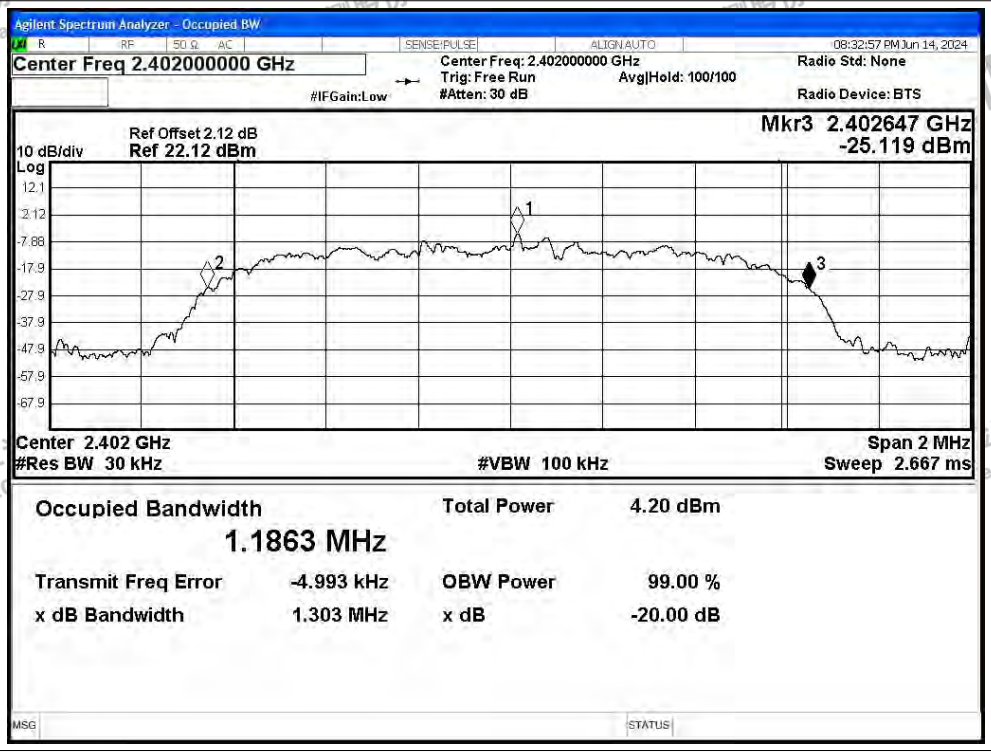
-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1



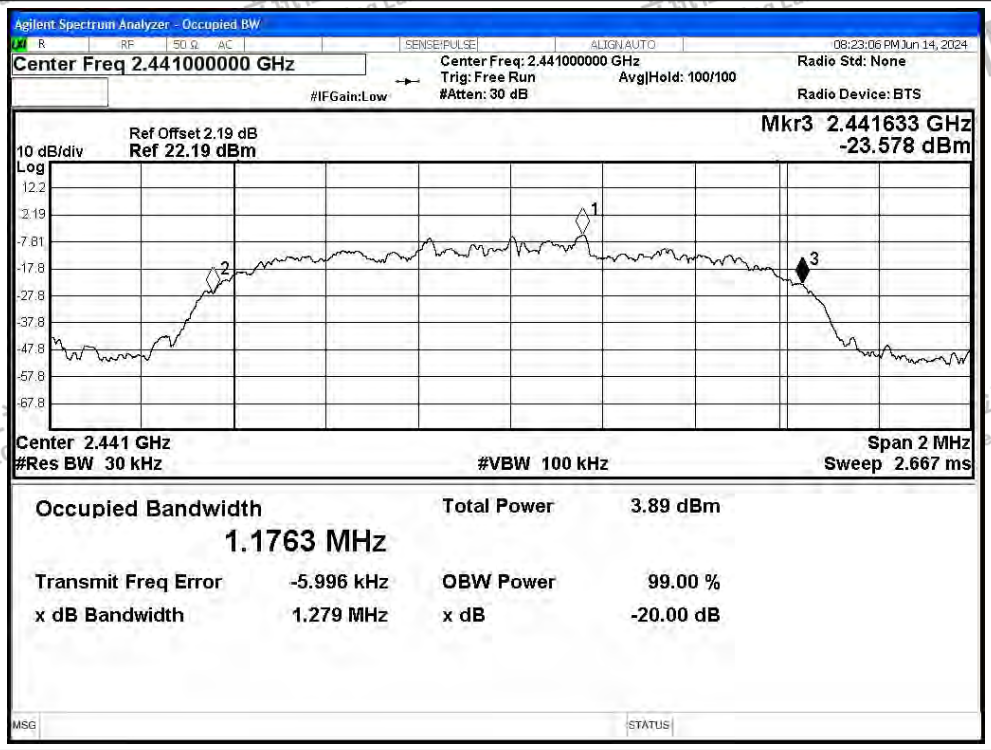
-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1



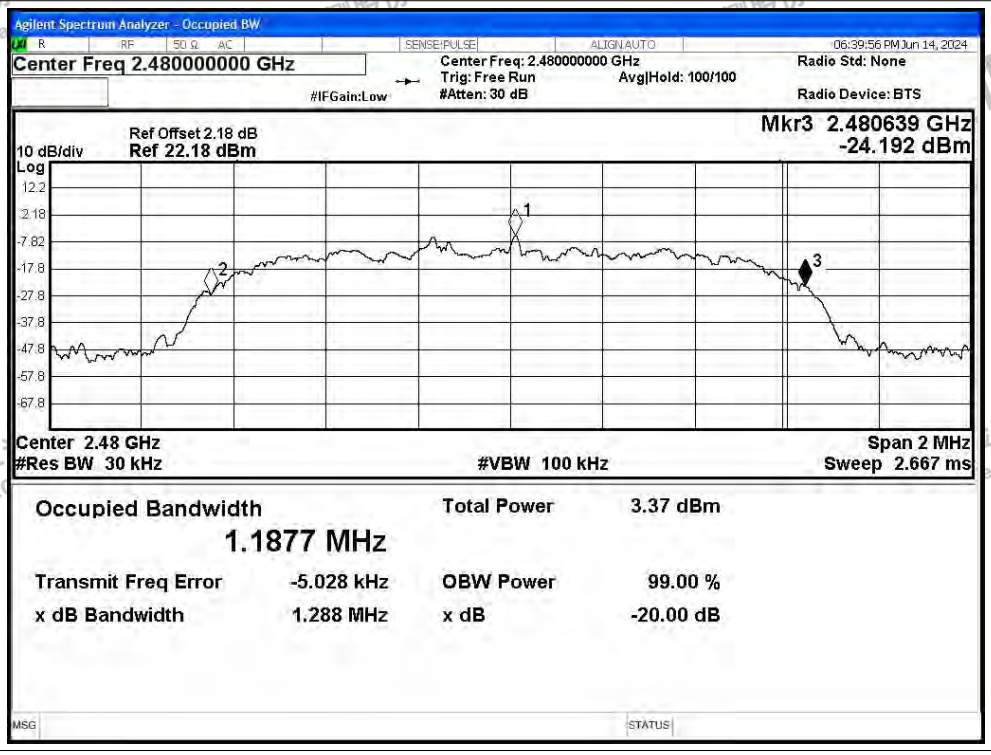
-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1



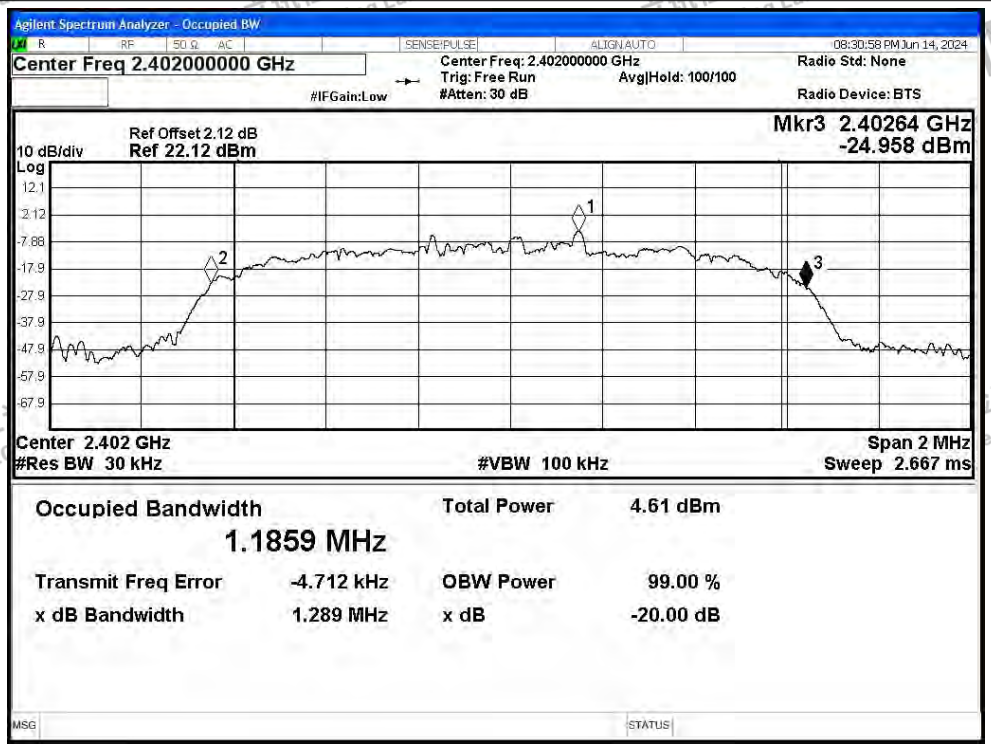
-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1



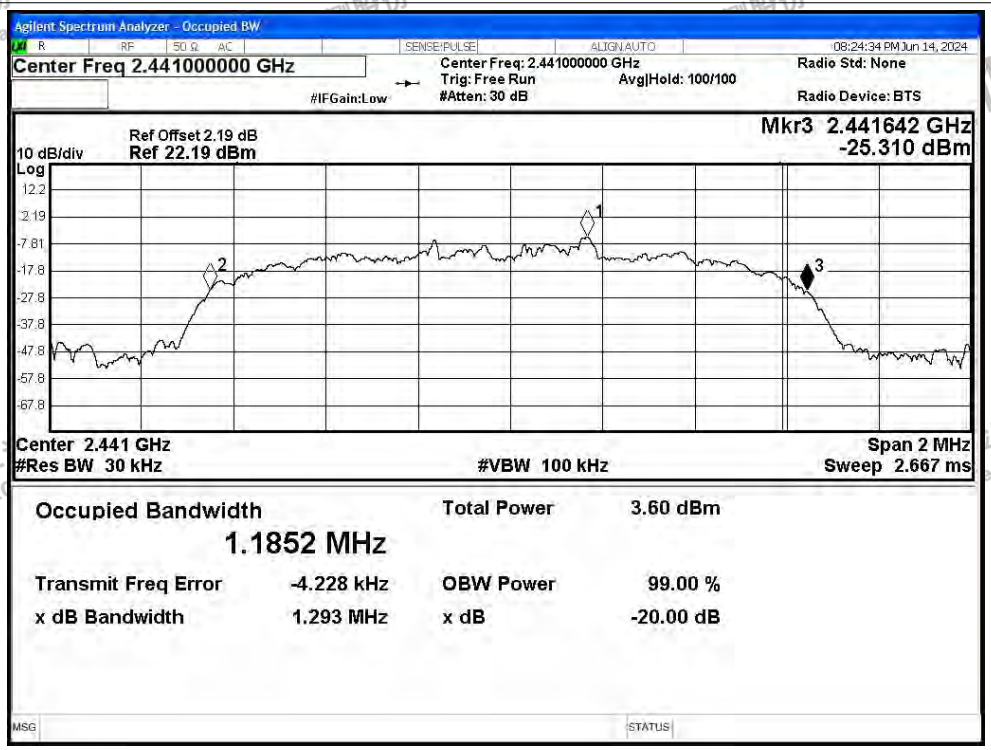
-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1



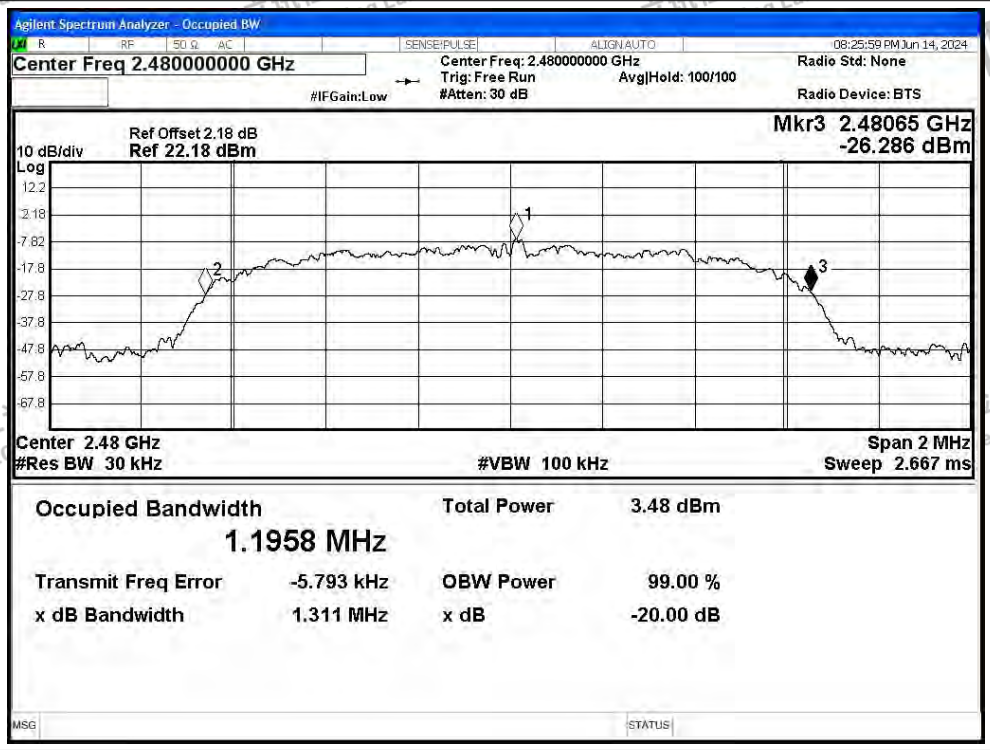
-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2480MHz Ant1

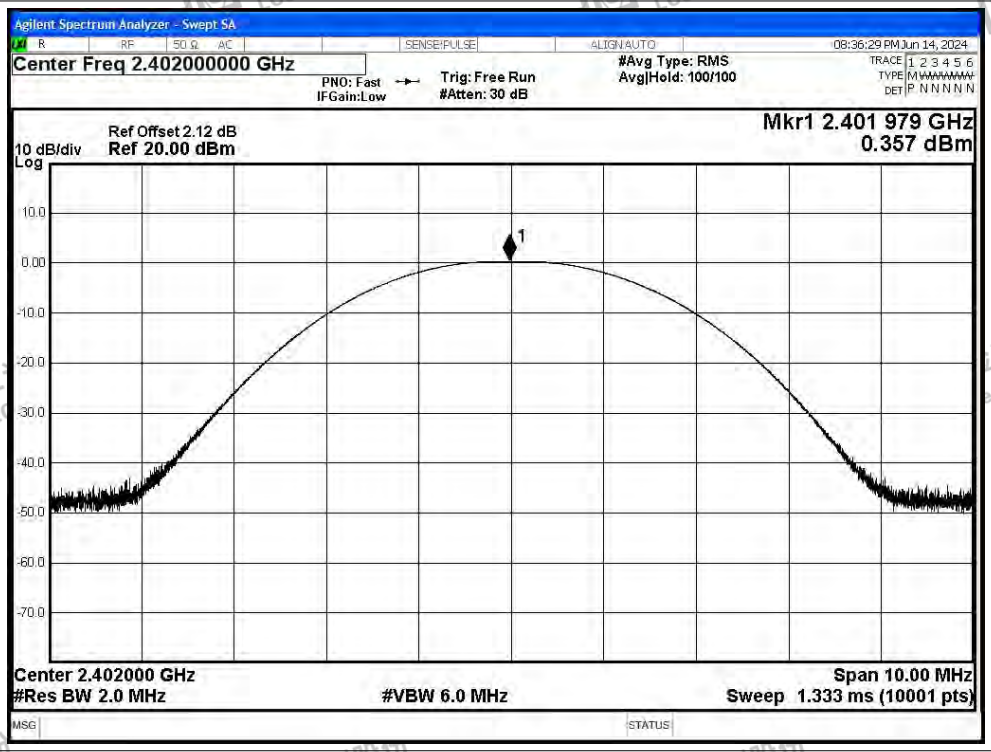


A.2 Maximum Conducted Output Power

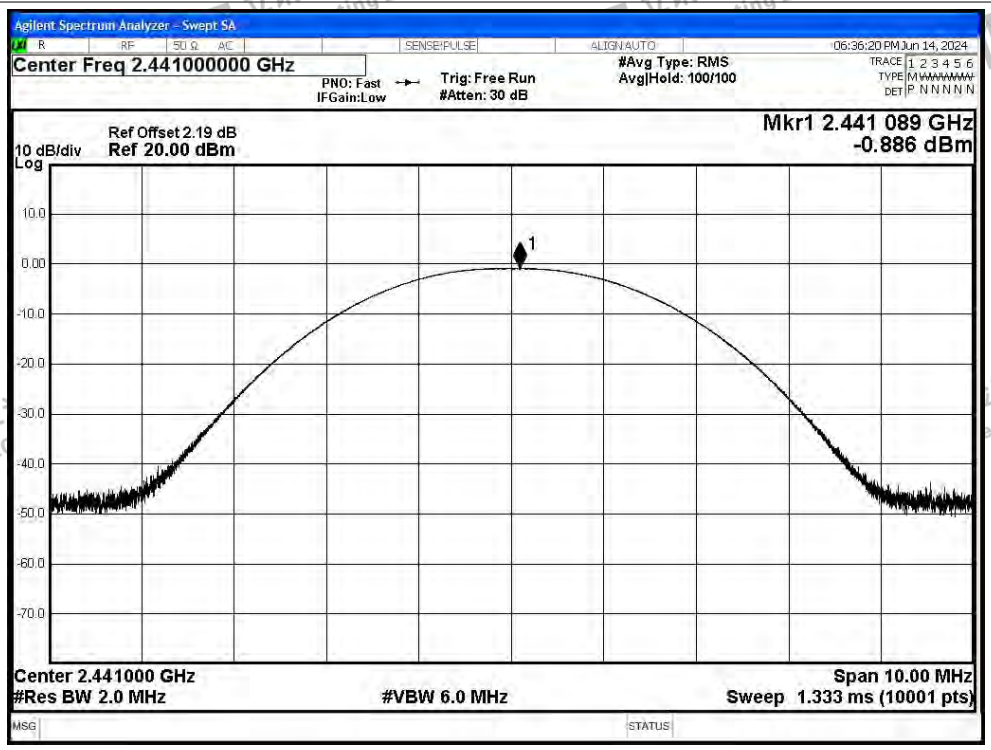
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	0.36	21	Pass
NVNT	1-DH5	2441	Ant1	-0.89	21	Pass
NVNT	1-DH5	2480	Ant1	-0.5	21	Pass
NVNT	2-DH5	2402	Ant1	0.12	21	Pass
NVNT	2-DH5	2441	Ant1	-0.83	21	Pass
NVNT	2-DH5	2480	Ant1	-0.78	21	Pass
NVNT	3-DH5	2402	Ant1	0.26	21	Pass
NVNT	3-DH5	2441	Ant1	-0.76	21	Pass
NVNT	3-DH5	2480	Ant1	-0.35	21	Pass

Test Graphs

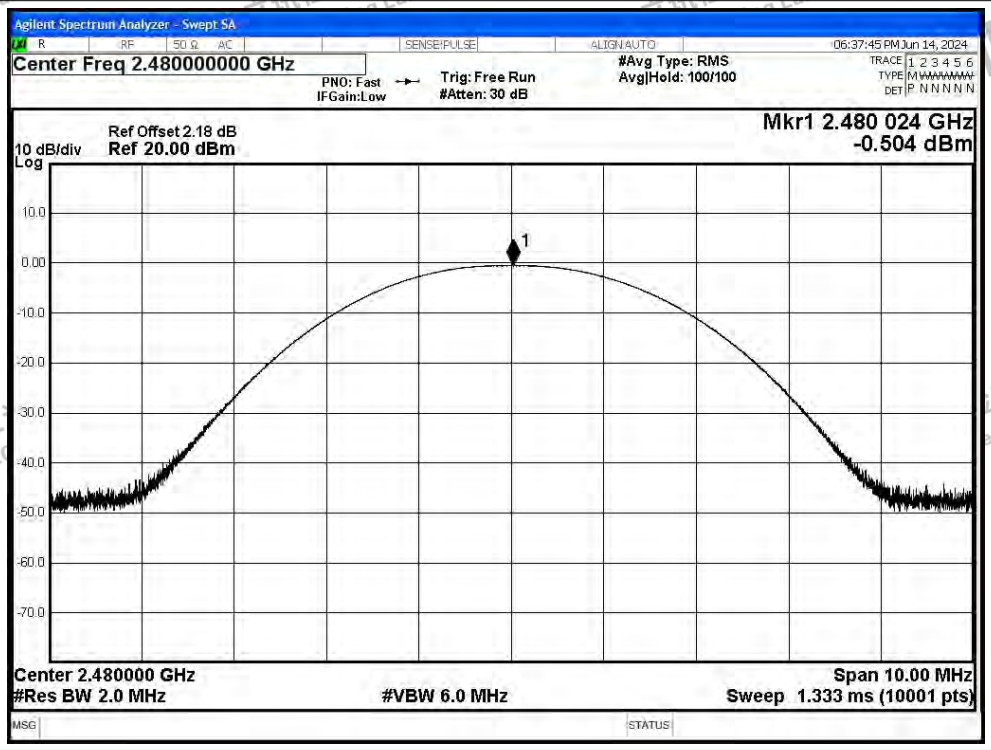
Power NVNT 1-DH5 2402MHz Ant1



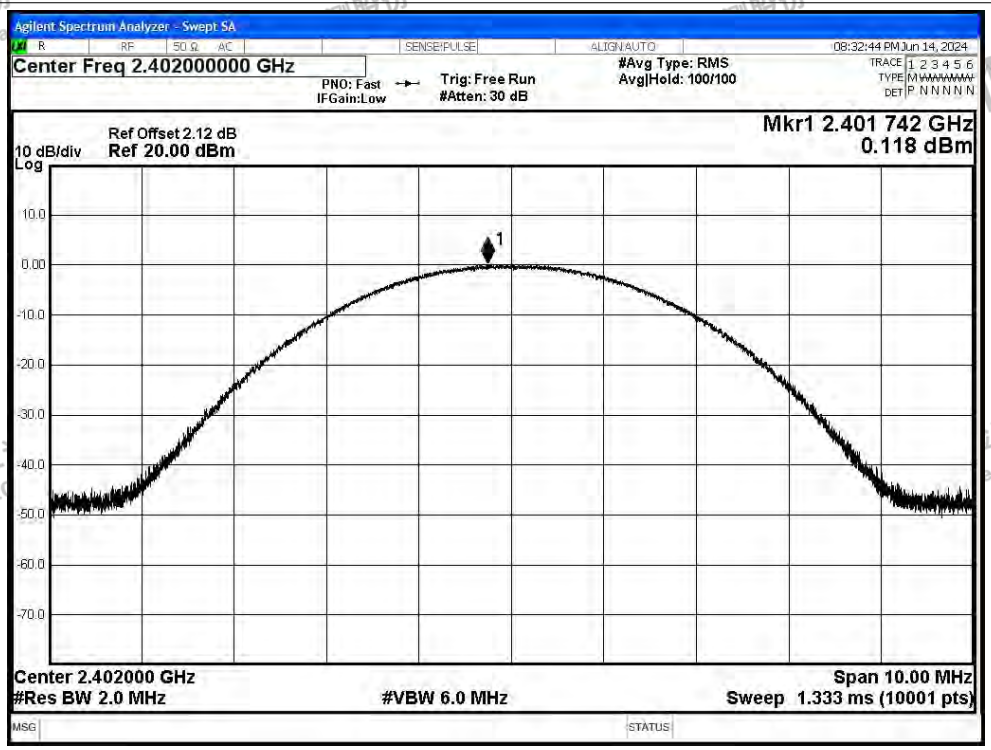
Power NVNT 1-DH5 2441MHz Ant1



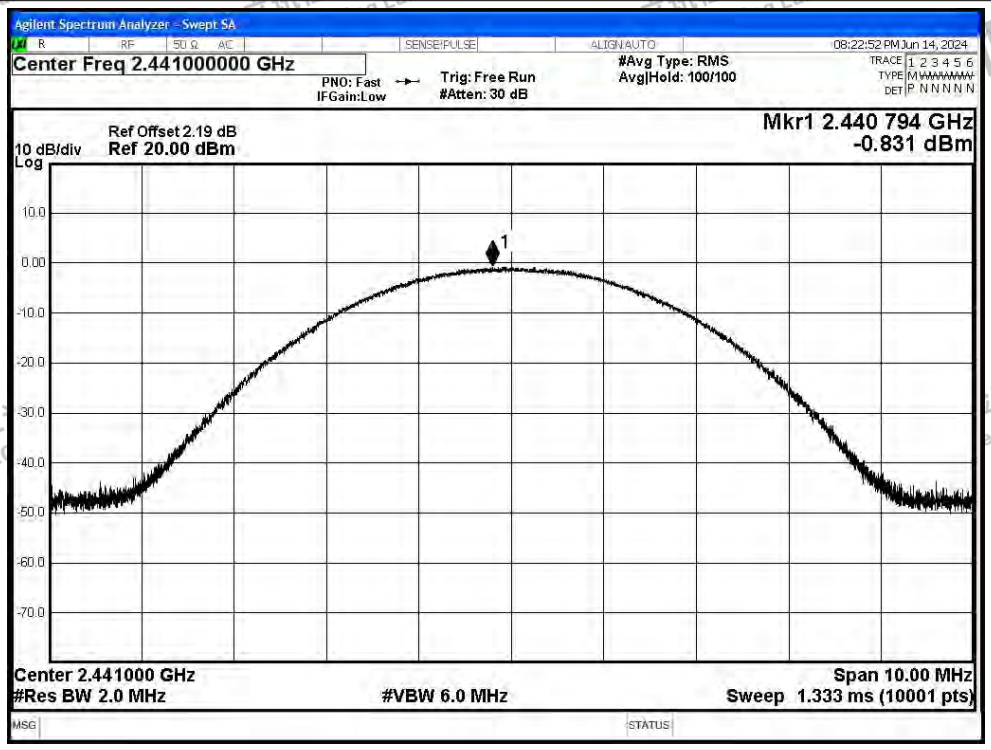
Power NVNT 1-DH5 2480MHz Ant1



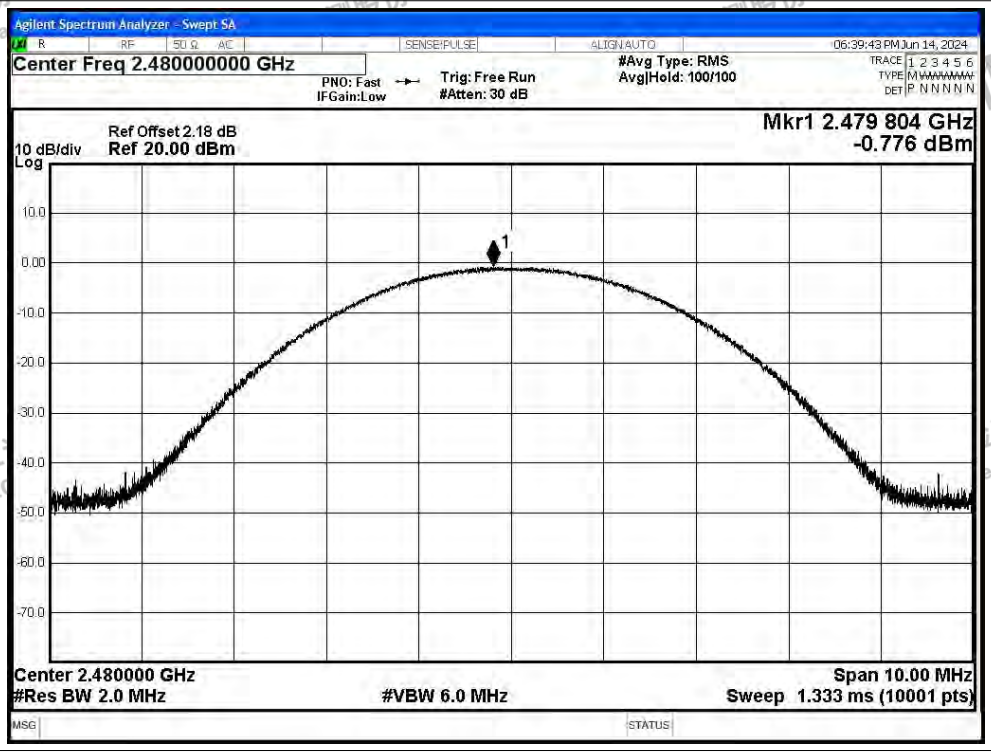
Power NVNT 2-DH5 2402MHz Ant1



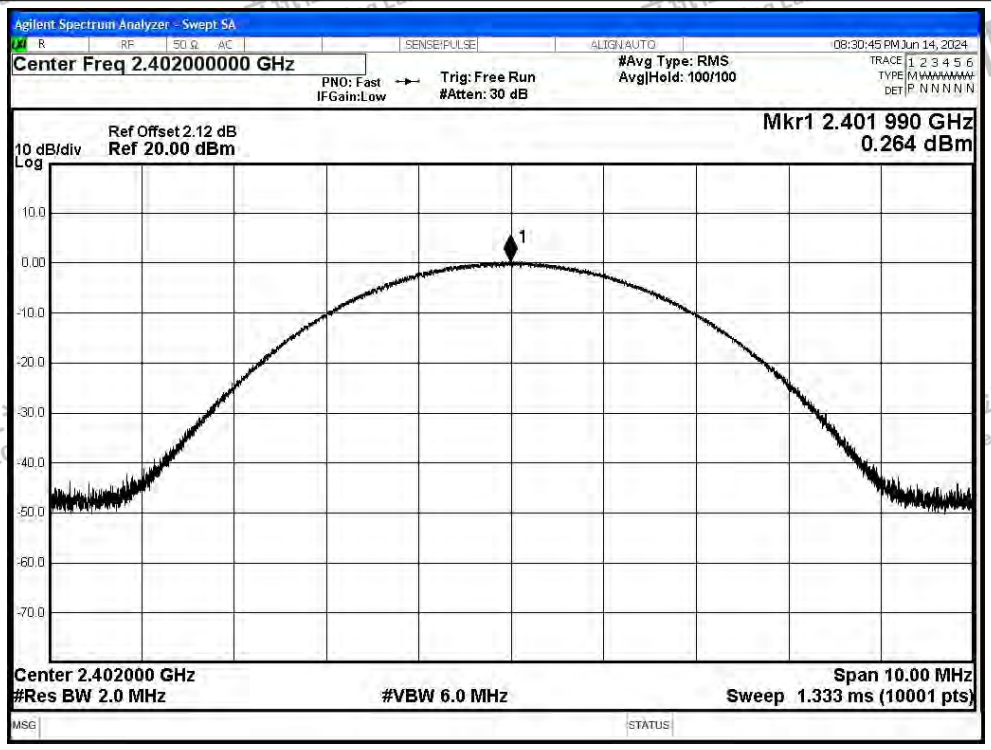
Power NVNT 2-DH5 2441MHz Ant1



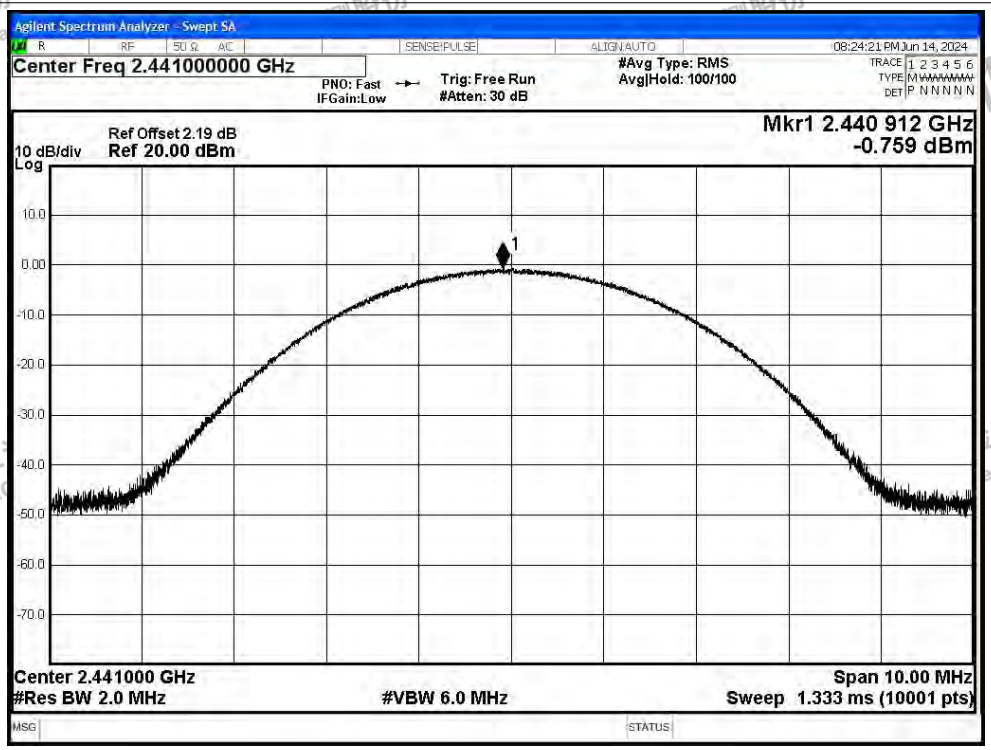
Power NVNT 2-DH5 2480MHz Ant1



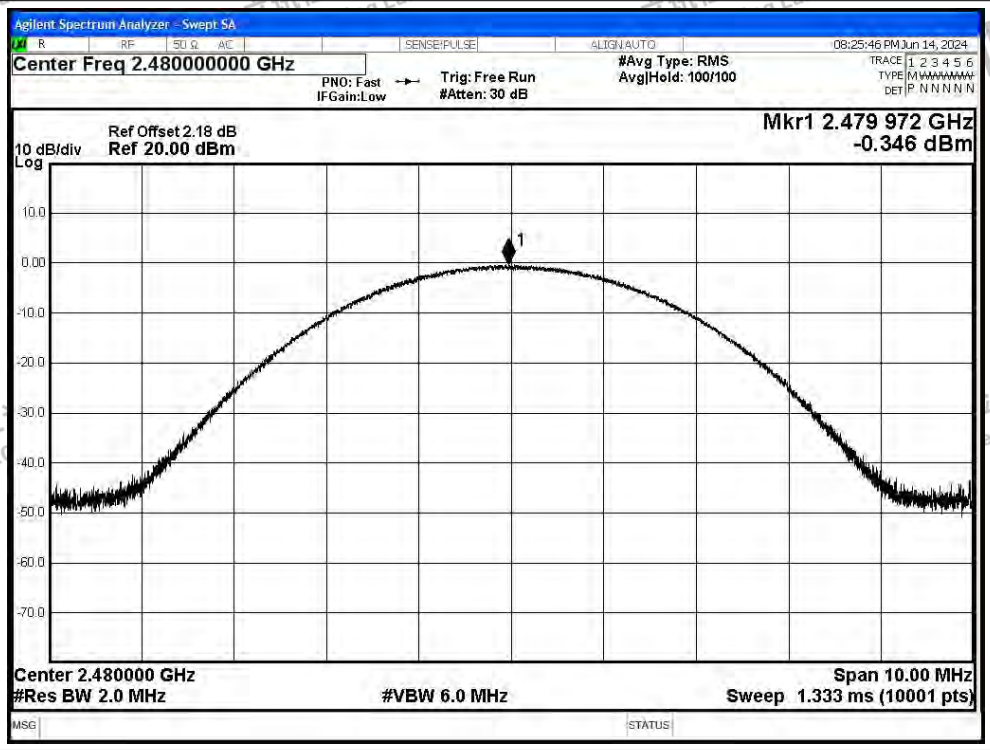
Power NVNT 3-DH5 2402MHz Ant1



Power NVNT 3-DH5 2441MHz Ant1



Power NVNT 3-DH5 2480MHz Ant1

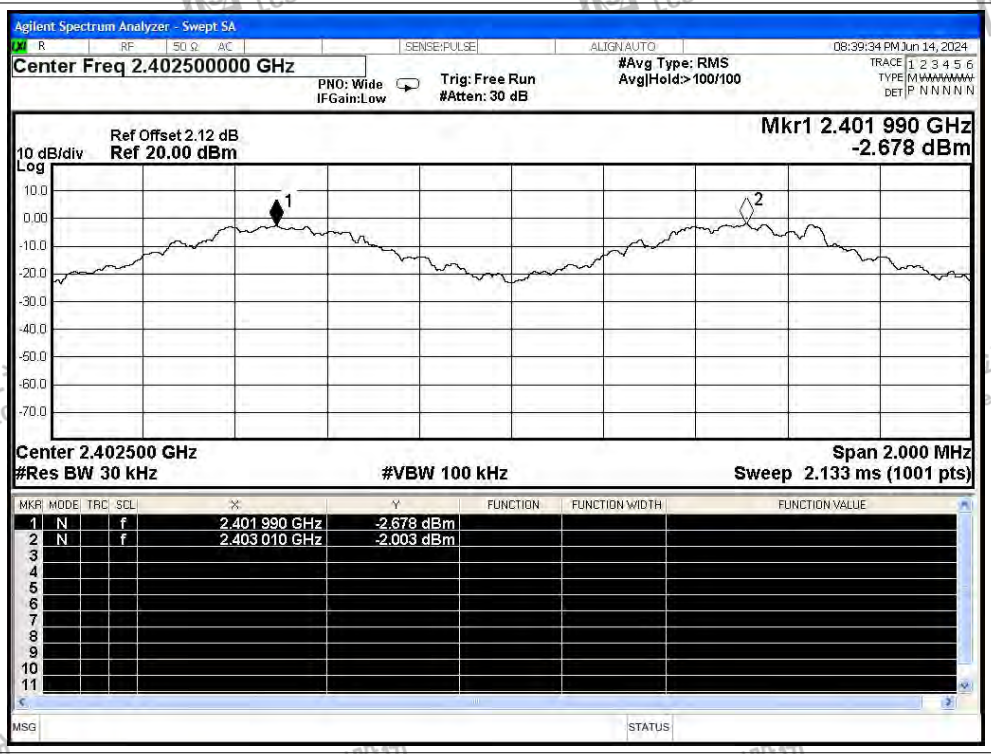


A.3 Carrier Frequencies Separation

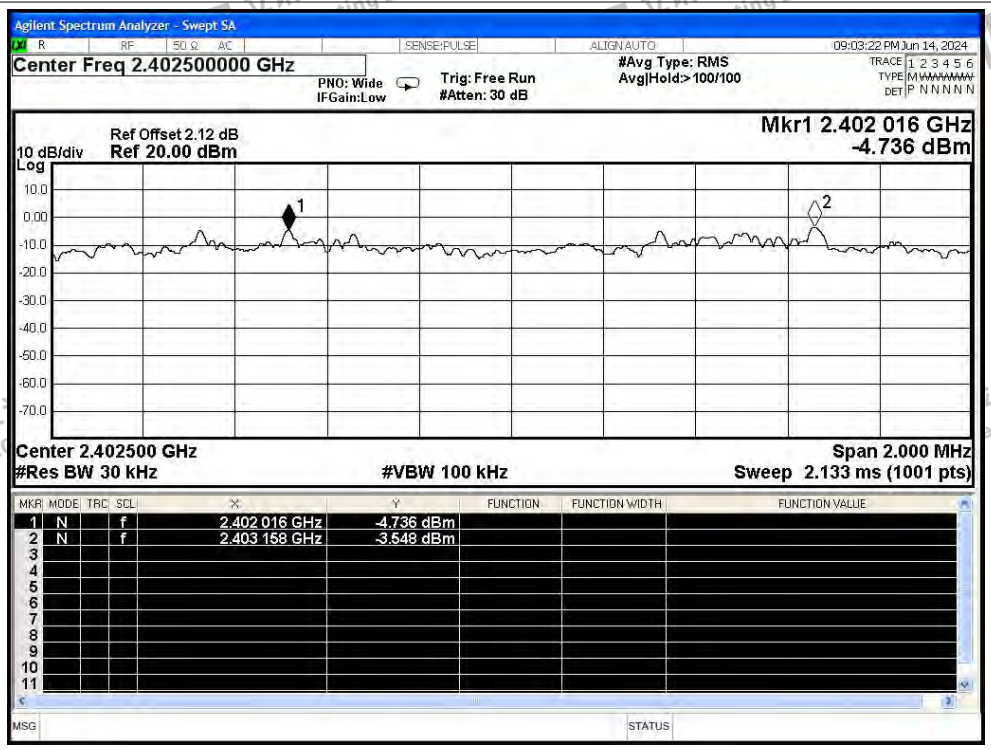
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2401.99	2403.01	1.02	0.677	Pass
NVNT	2-DH5	Ant1	2402.016	2403.158	1.142	0.869	Pass
NVNT	3-DH5	Ant1	2402.144	2403.164	1.02	0.874	Pass

Test Graphs

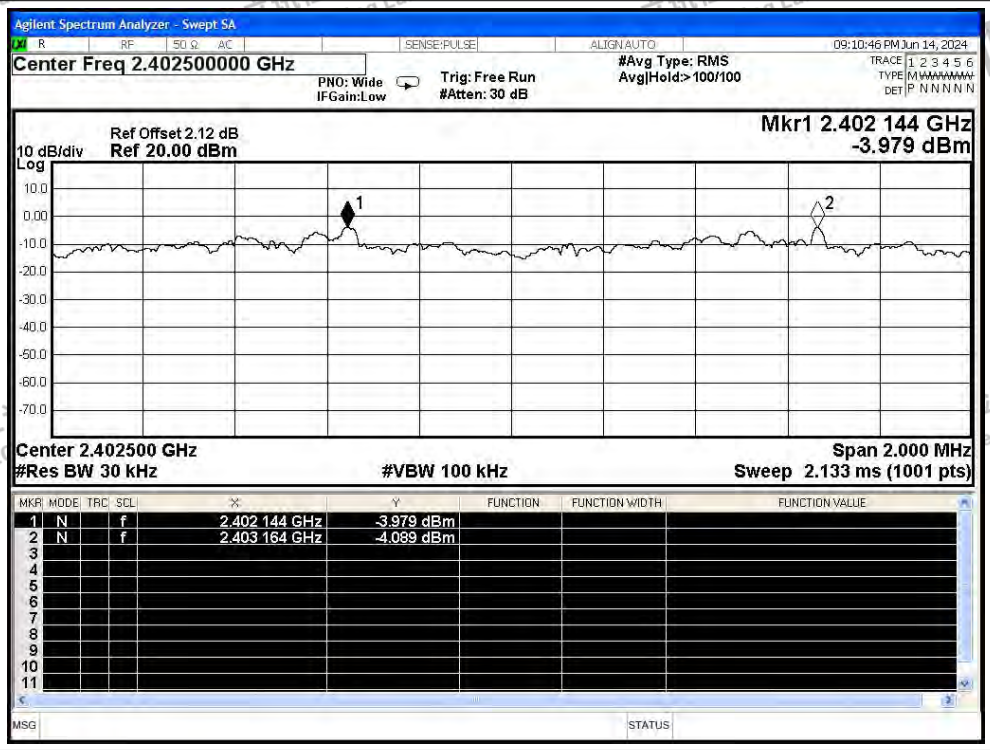
CFS NVNT 1-DH5 2402MHz Ant1



CFS NVNT 2-DH5 2402MHz Ant1



CFS NVNT 3-DH5 2402MHz Ant1

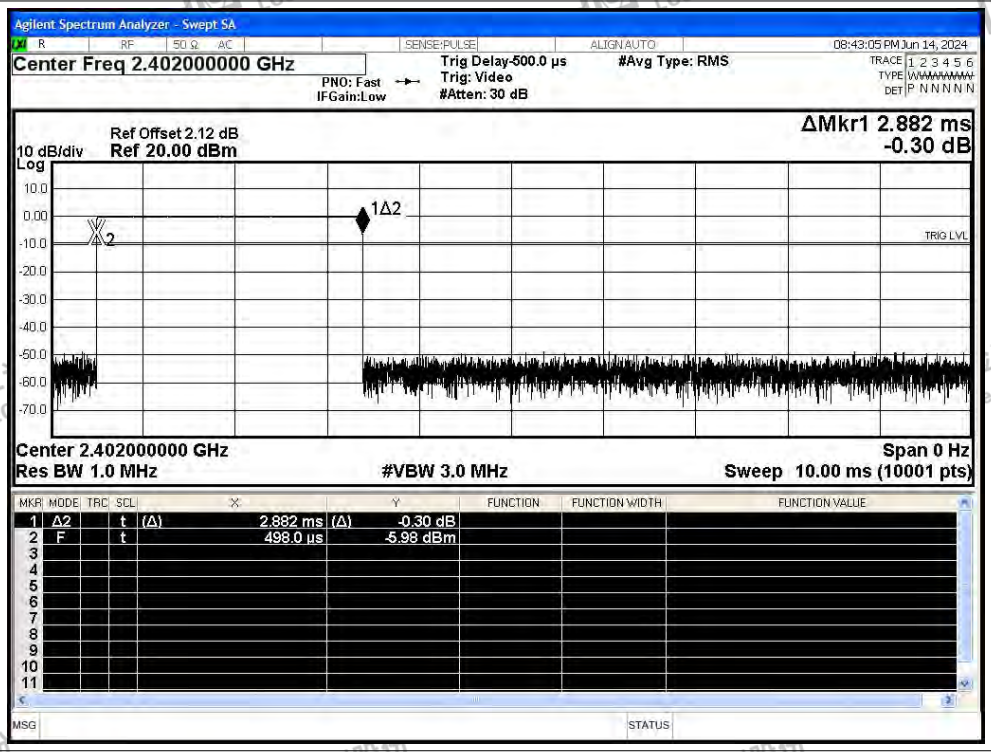


A.4 Dwell Time

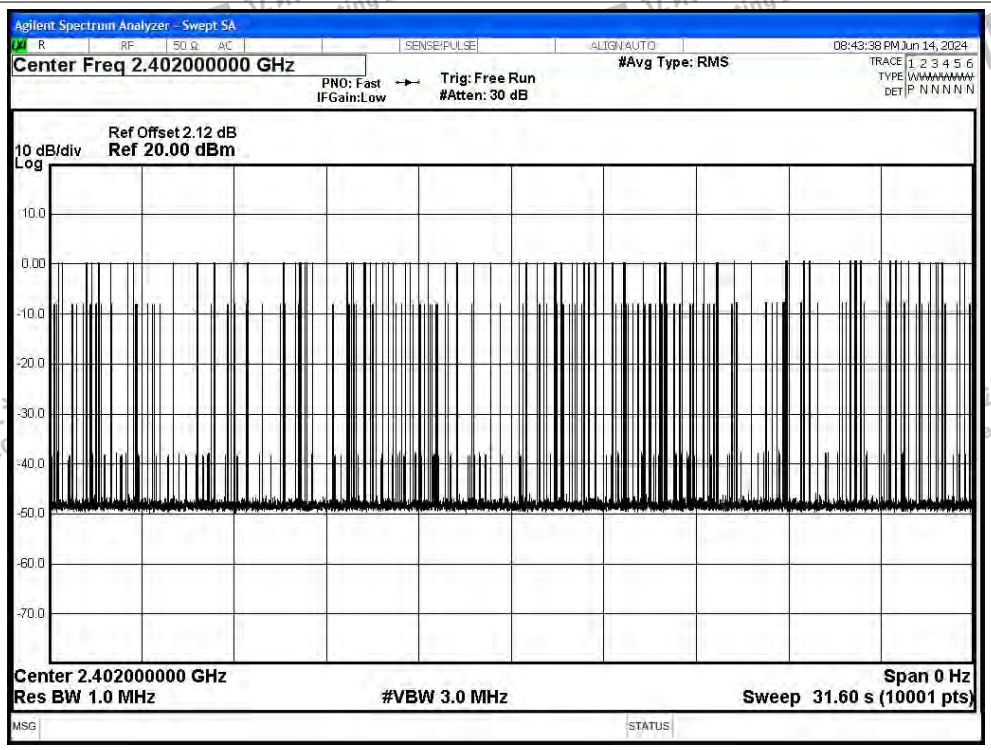
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH5	2402	Ant1	2.882	276.672	96	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.885	302.925	105	31600	400	Pass
NVNT	3-DH5	2402	Ant1	2.887	282.926	98	31600	400	Pass

Test Graphs

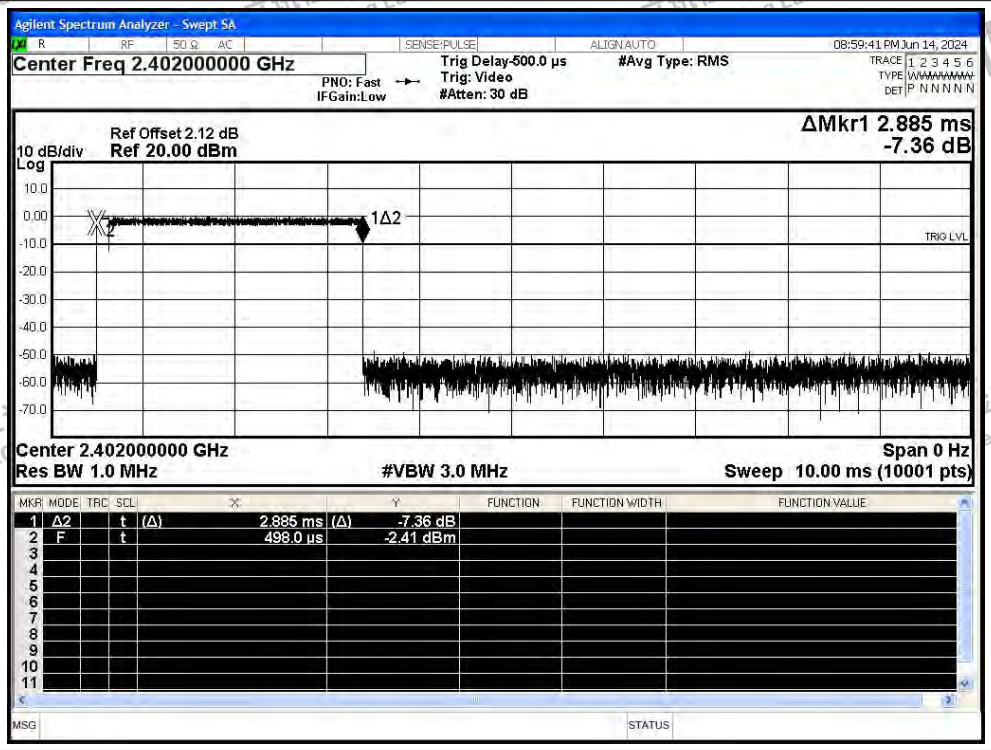
Dwell NVNT 1-DH5 2402MHz Ant1 One Burst



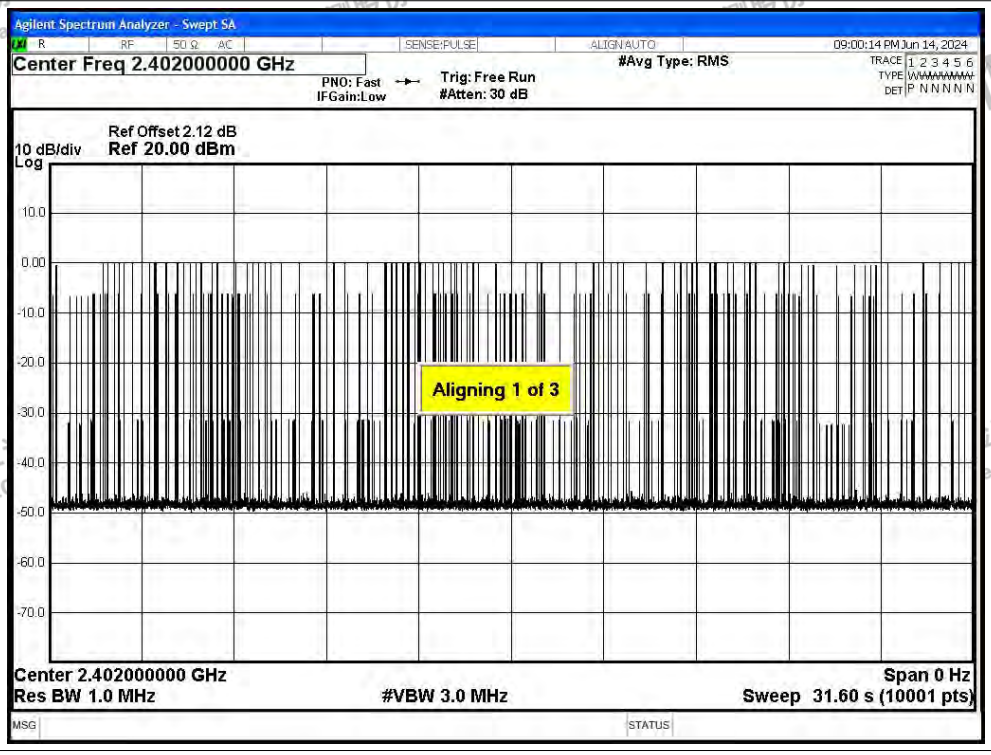
Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated



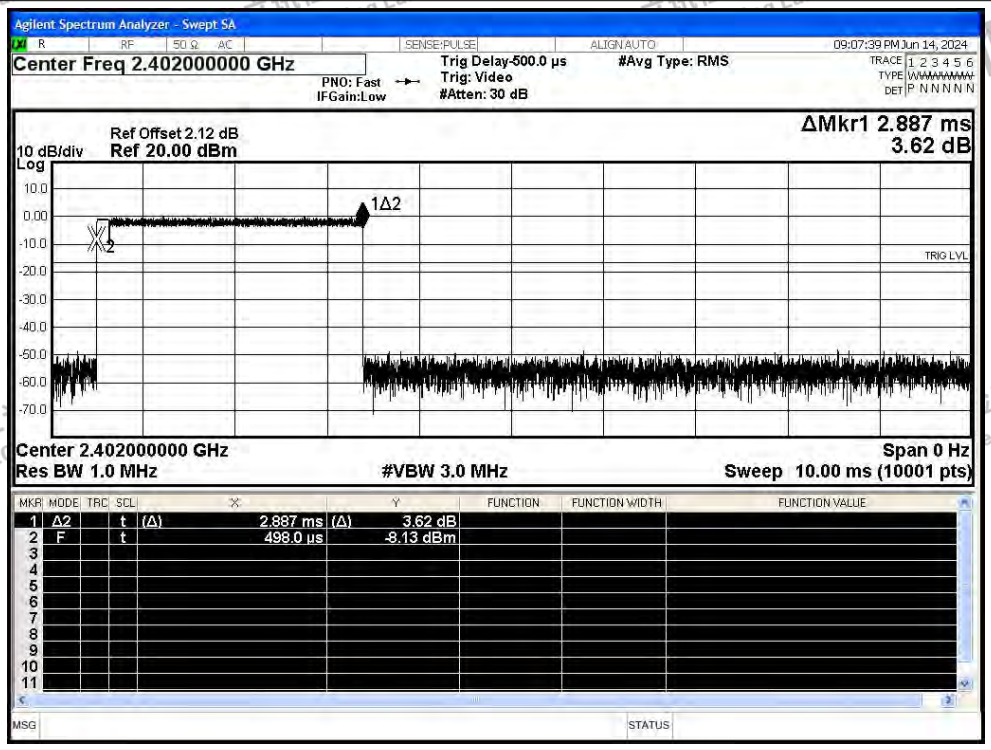
Dwell NVNT 2-DH5 2402MHz Ant1 One Burst



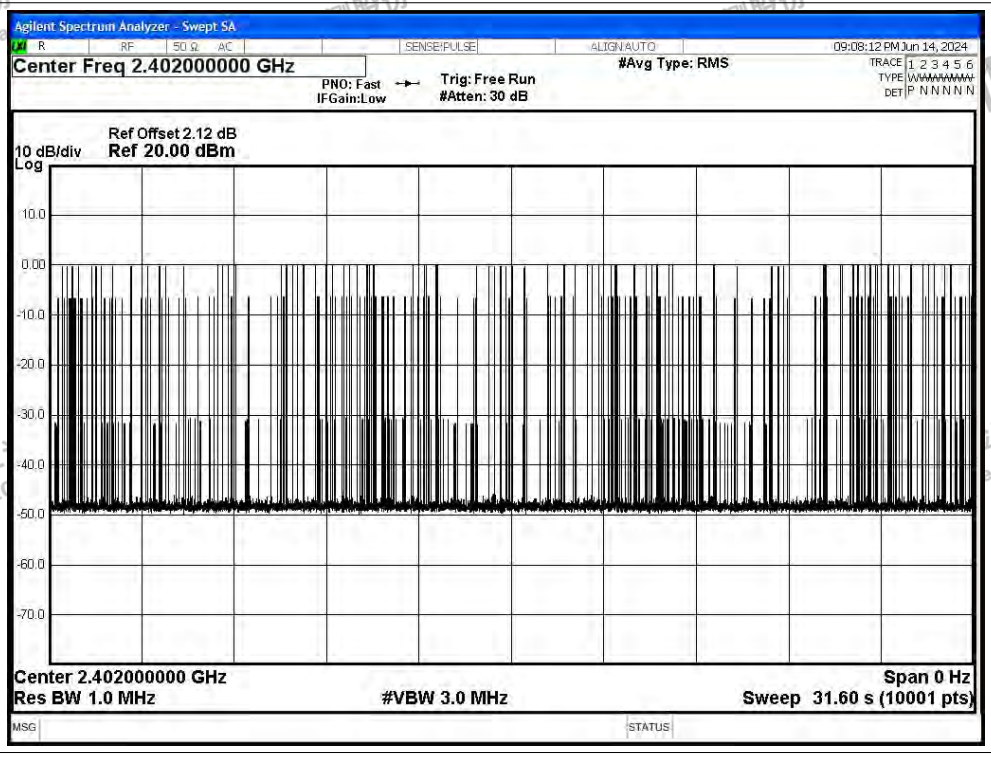
Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated



Dwell NVNT 3-DH5 2402MHz Ant1 One Burst



Dwell NVNT 3-DH5 2402MHz Ant1 Accumulated

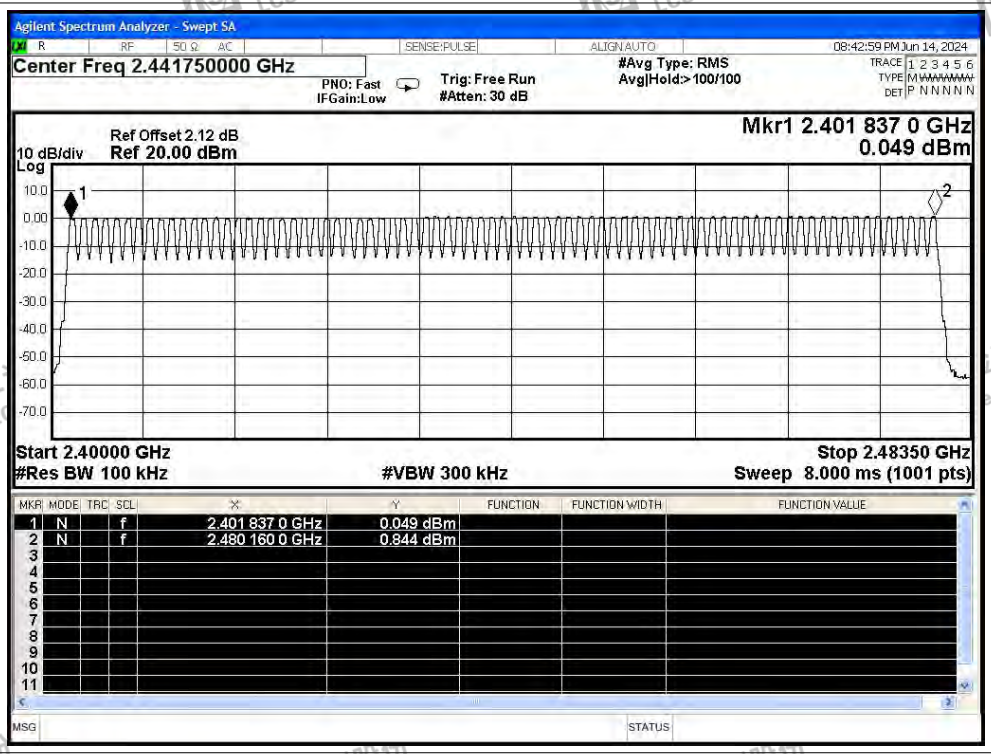


A.5 Number of Hopping Channel

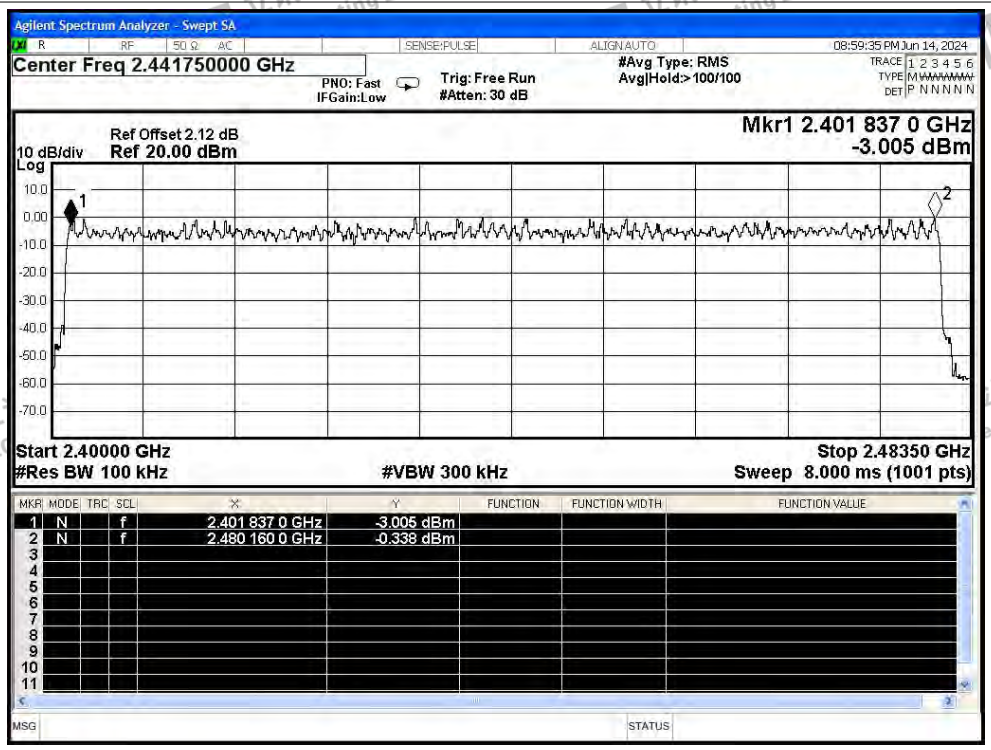
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH5	Ant1	79	15	Pass
NVNT	2-DH5	Ant1	79	15	Pass
NVNT	3-DH5	Ant1	79	15	Pass

Test Graphs

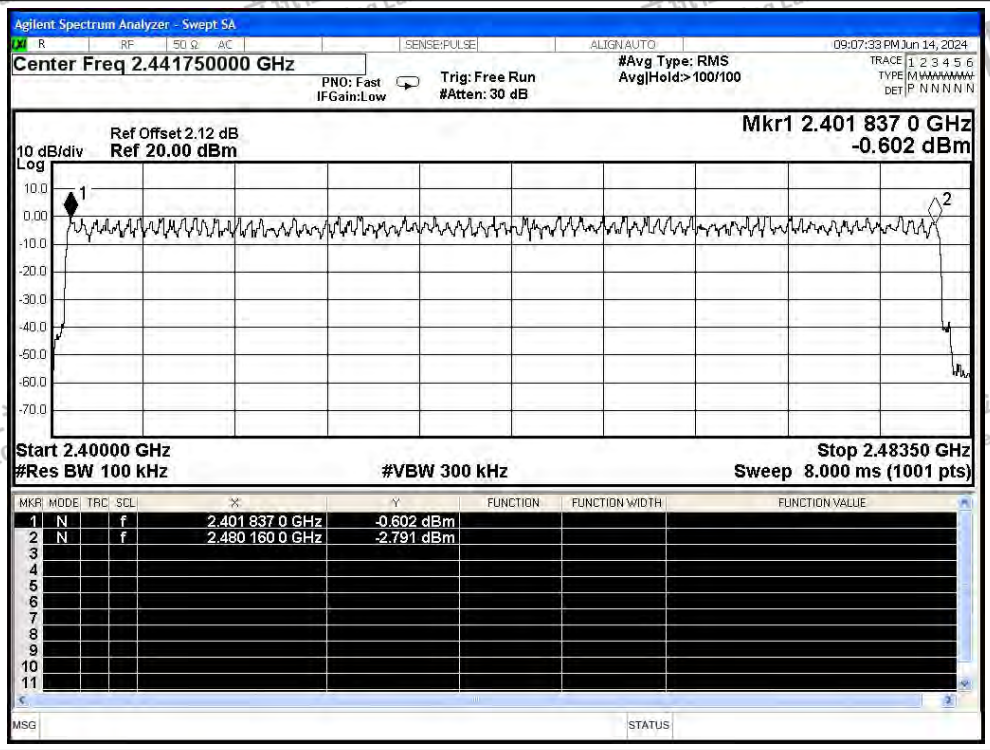
Hopping No. NVNT 1-DH5 2402MHz Ant1



Hopping No. NVNT 2-DH5 2402MHz Ant1



Hopping No. NVNT 3-DH5 2402MHz Ant1

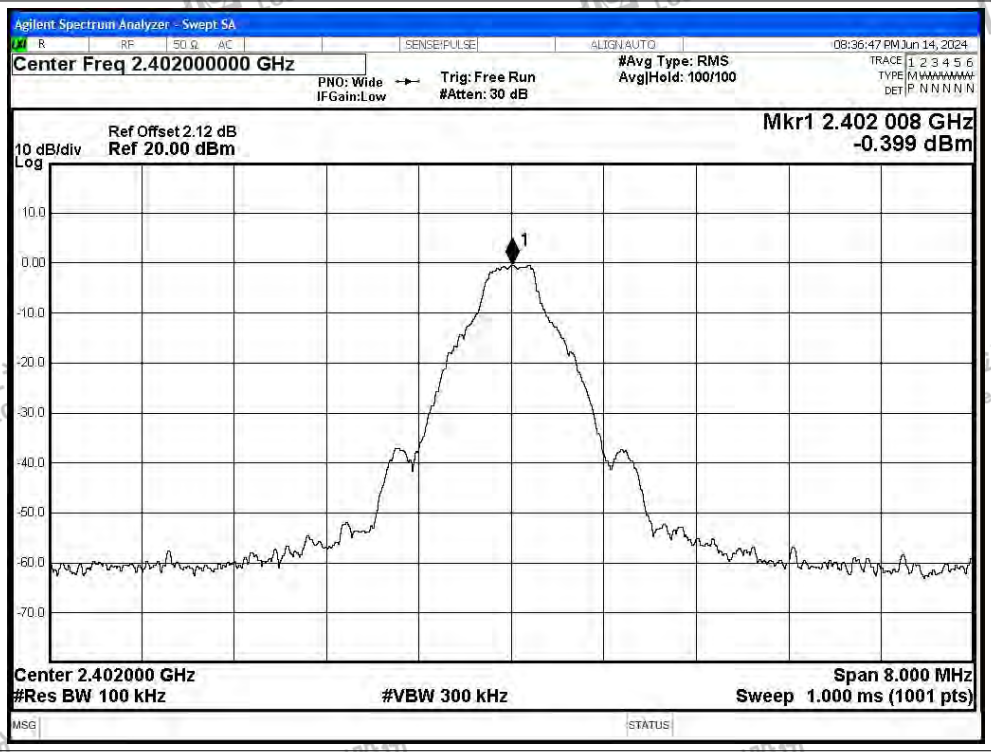


A.6 Band Edge

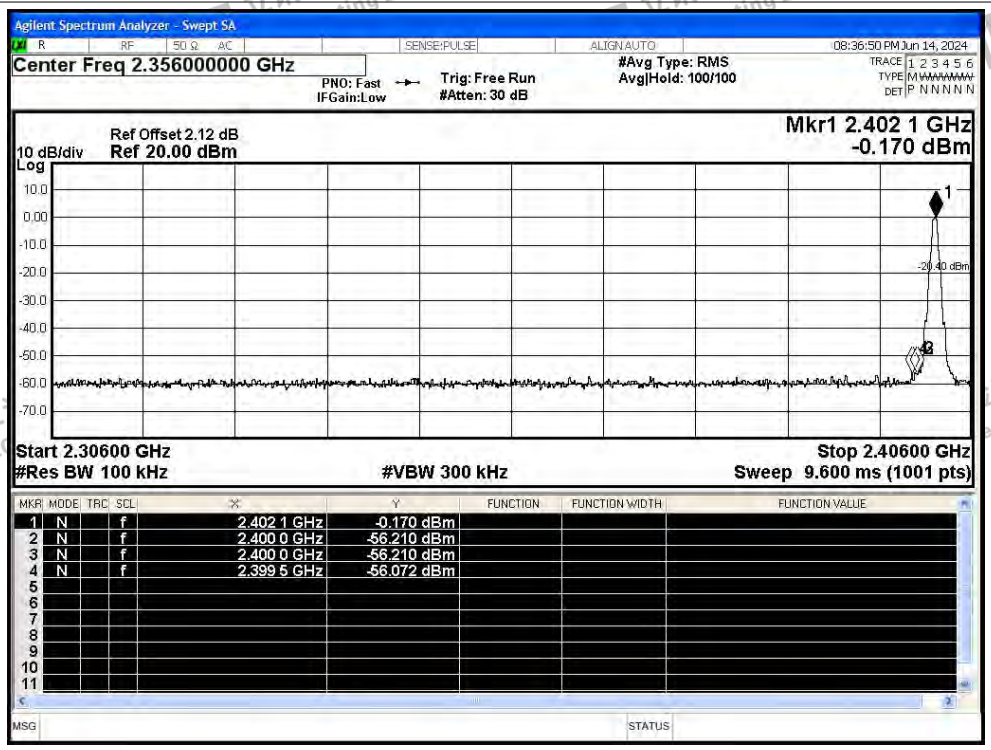
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-55.67	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-55.52	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-55.22	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-55	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-55.46	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-52	-20	Pass

Test Graphs

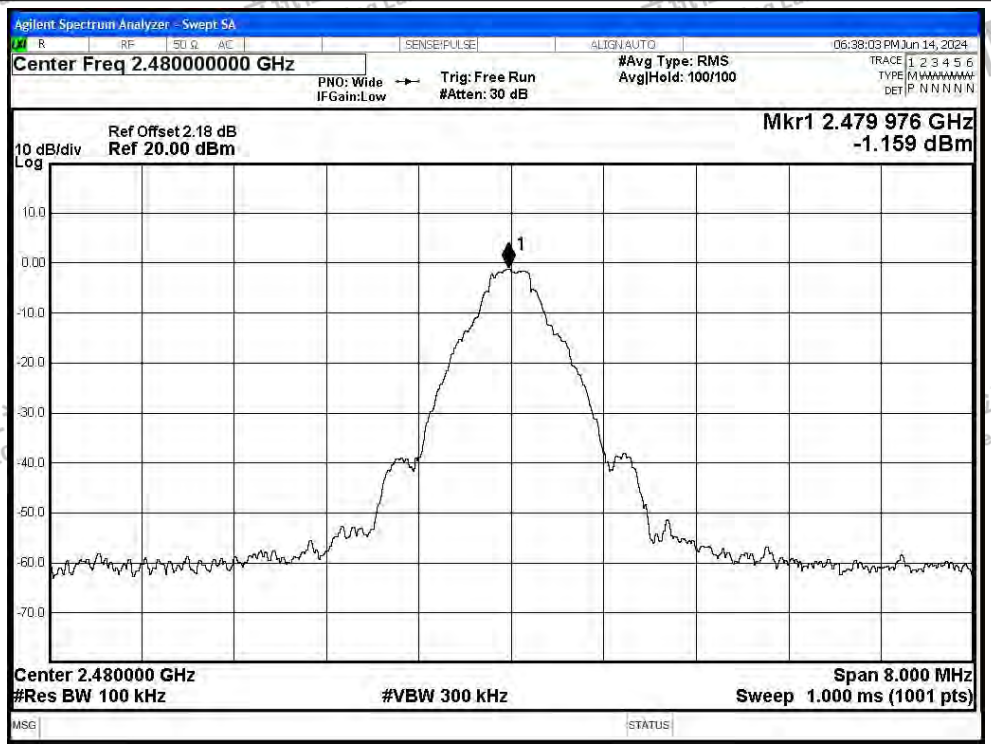
Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Ref



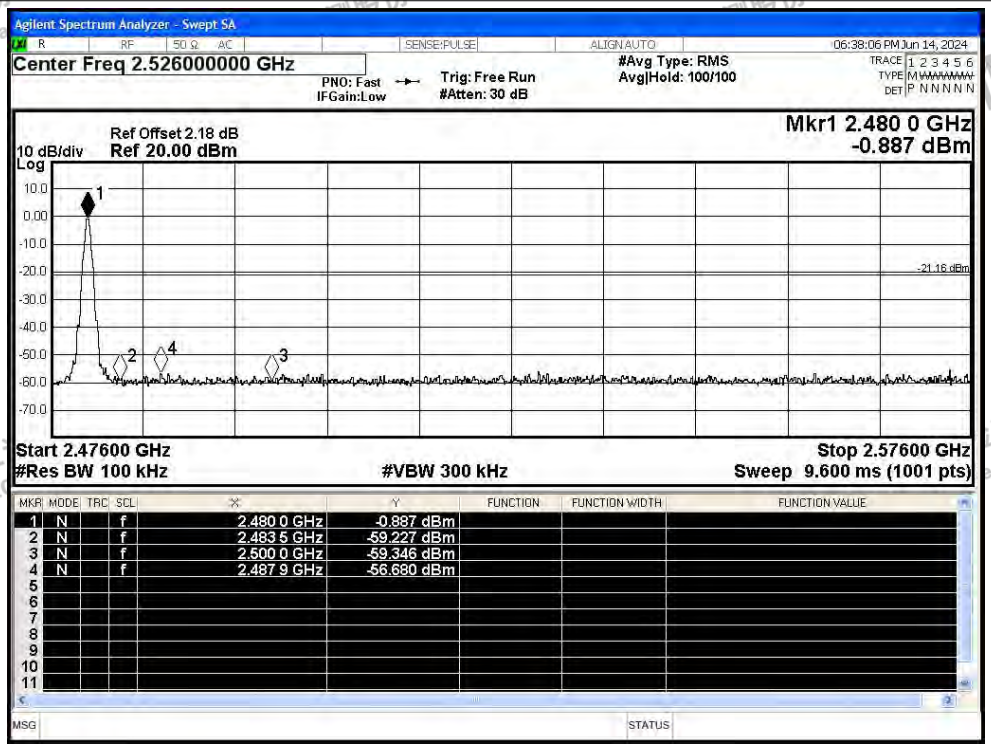
Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission



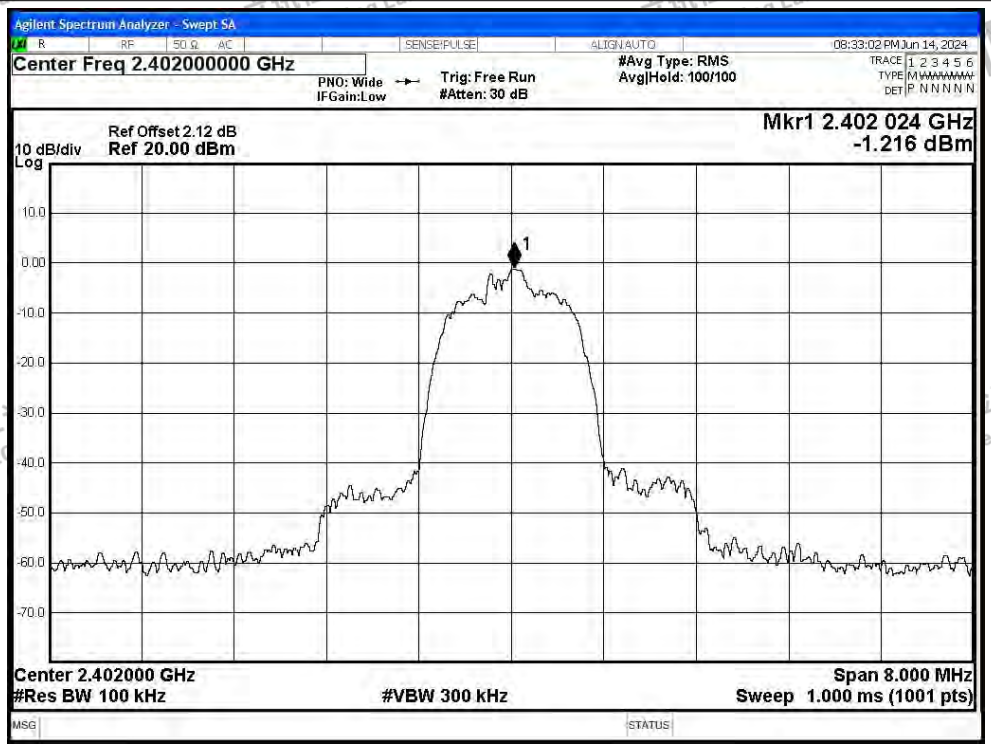
Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref



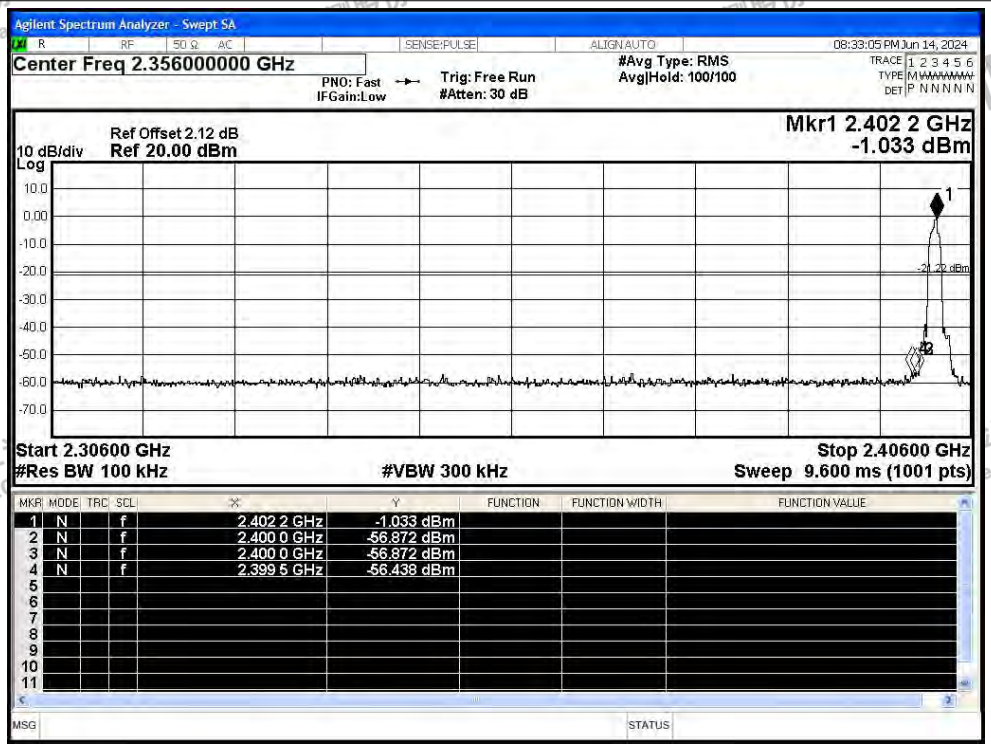
Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission



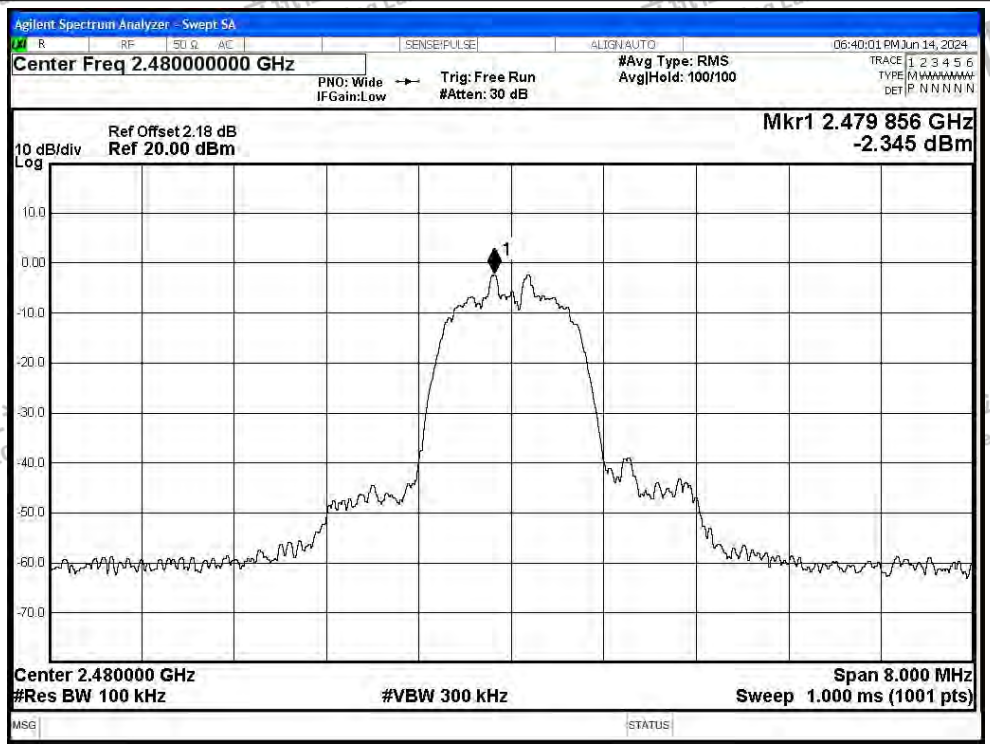
Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref



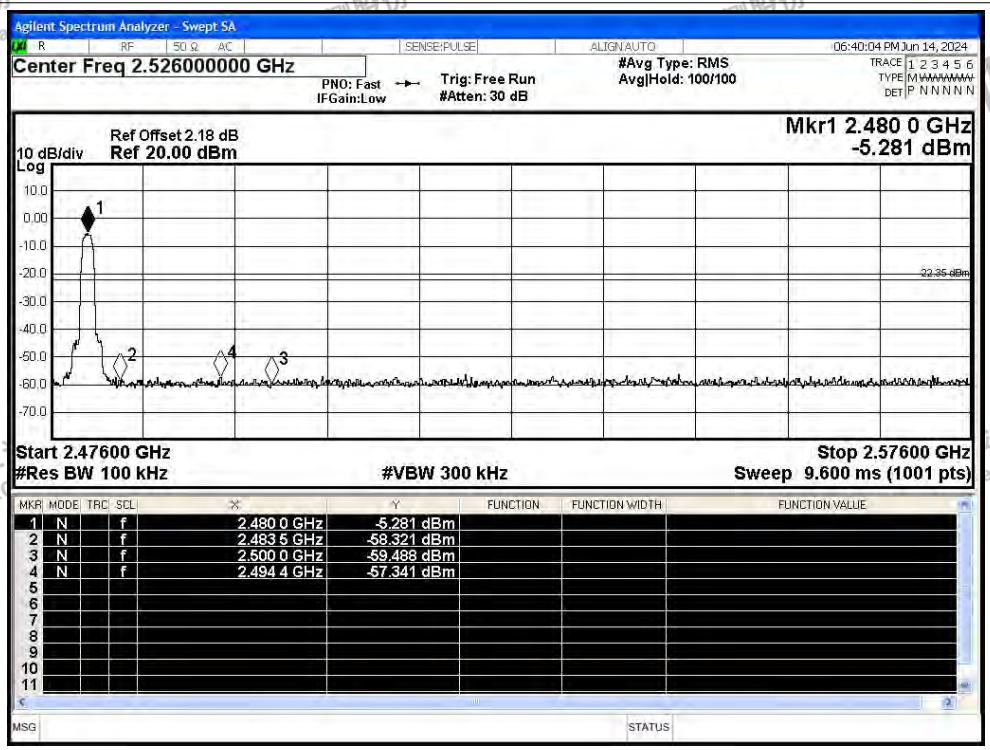
Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission



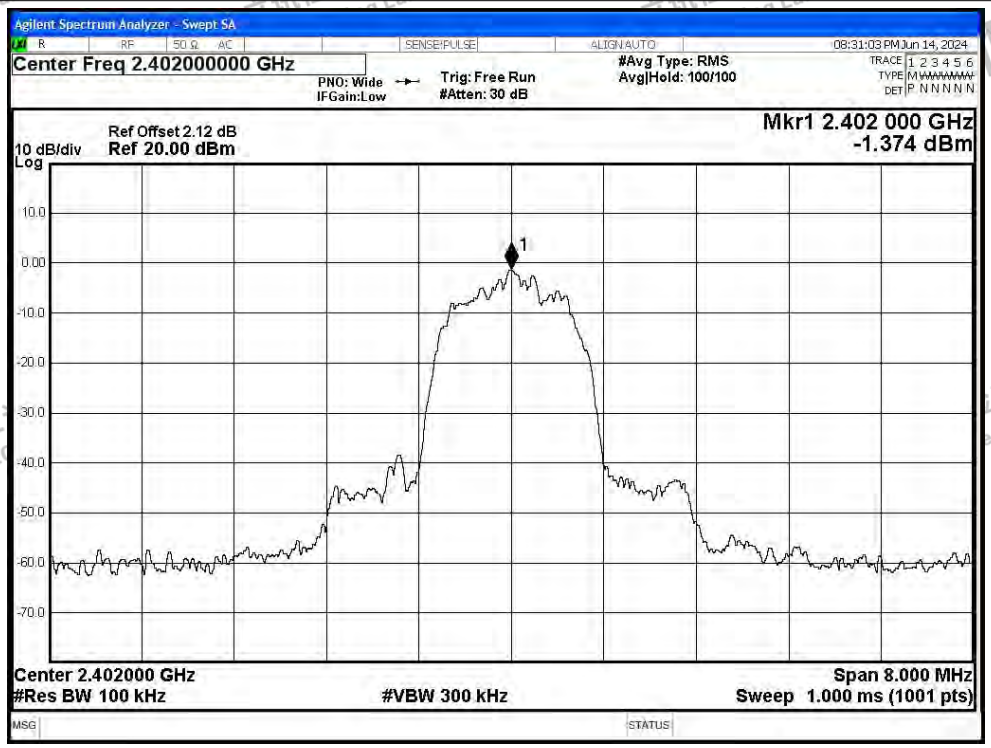
Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref



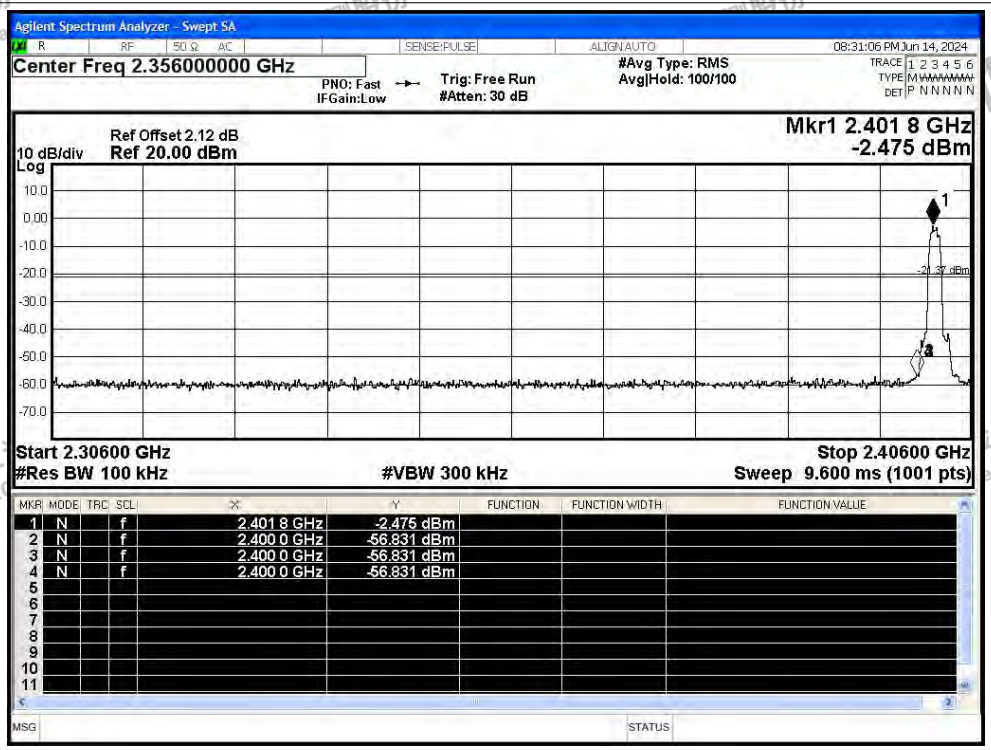
Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Emission



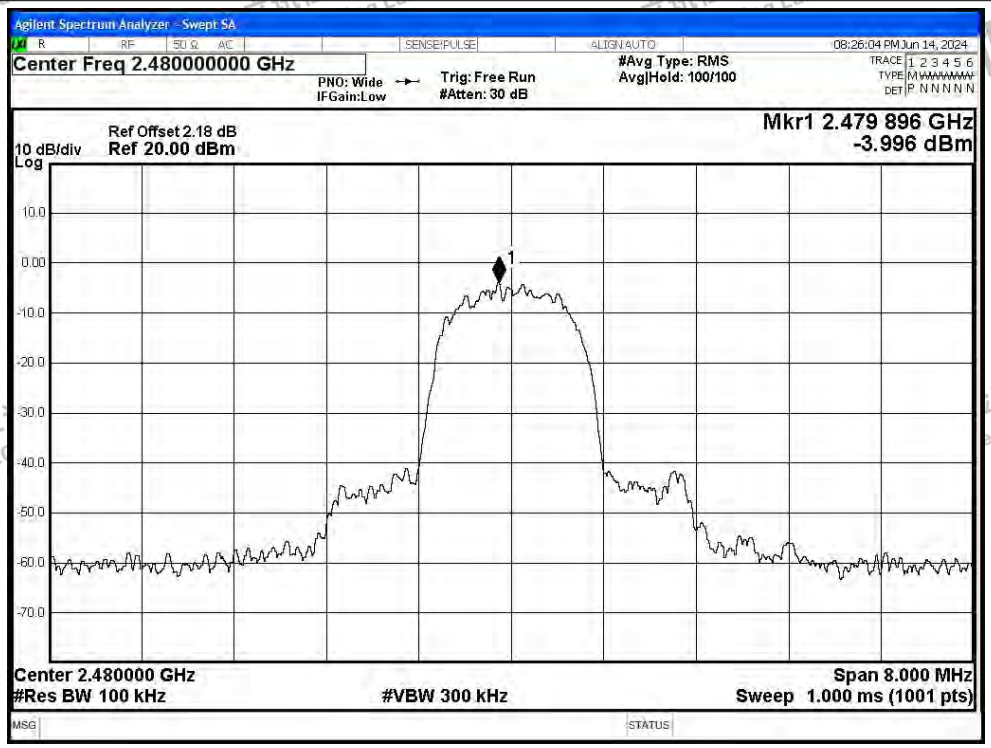
Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Ref



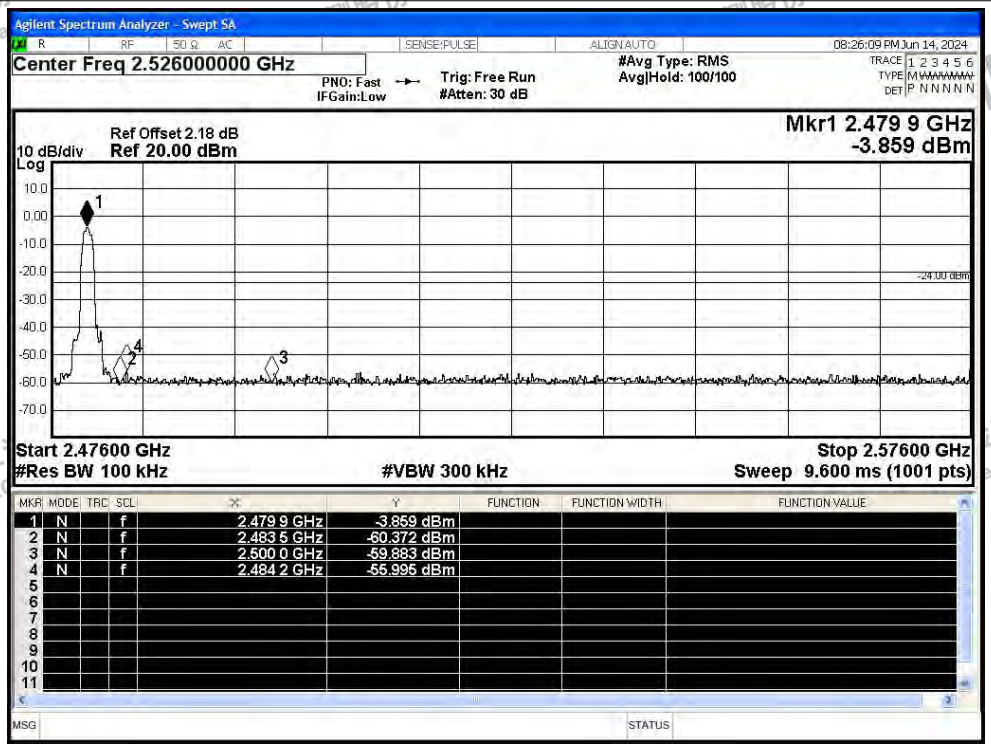
Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Emission



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



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



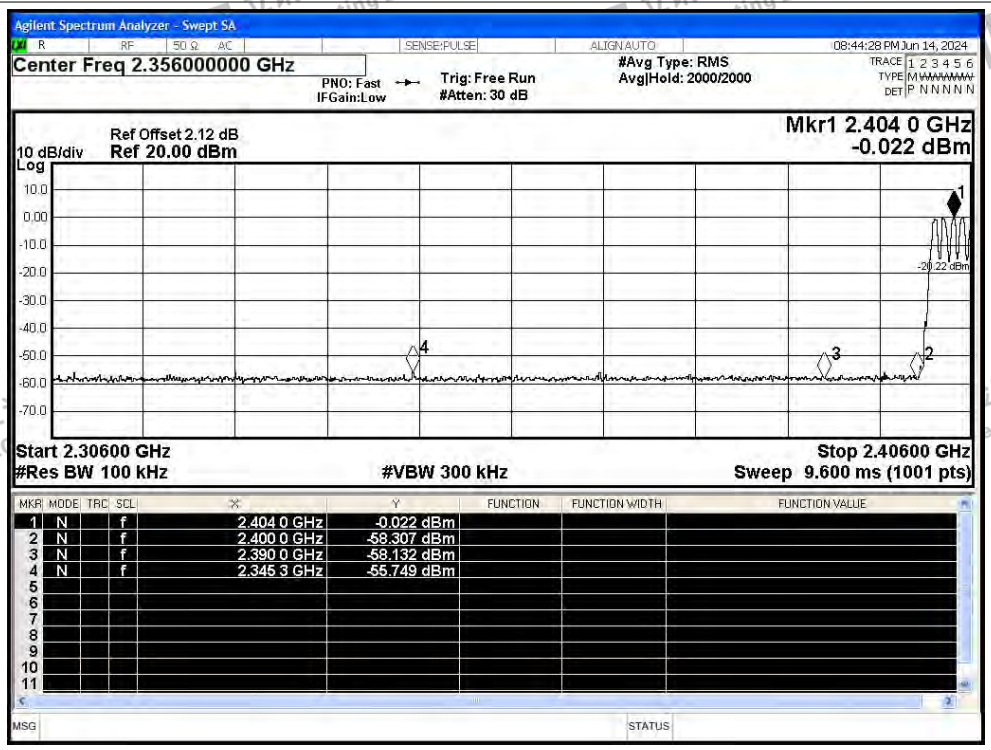
(Hopping)

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-55.53	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-57.39	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-54.46	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-54.53	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-52.49	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-54.07	-20	Pass

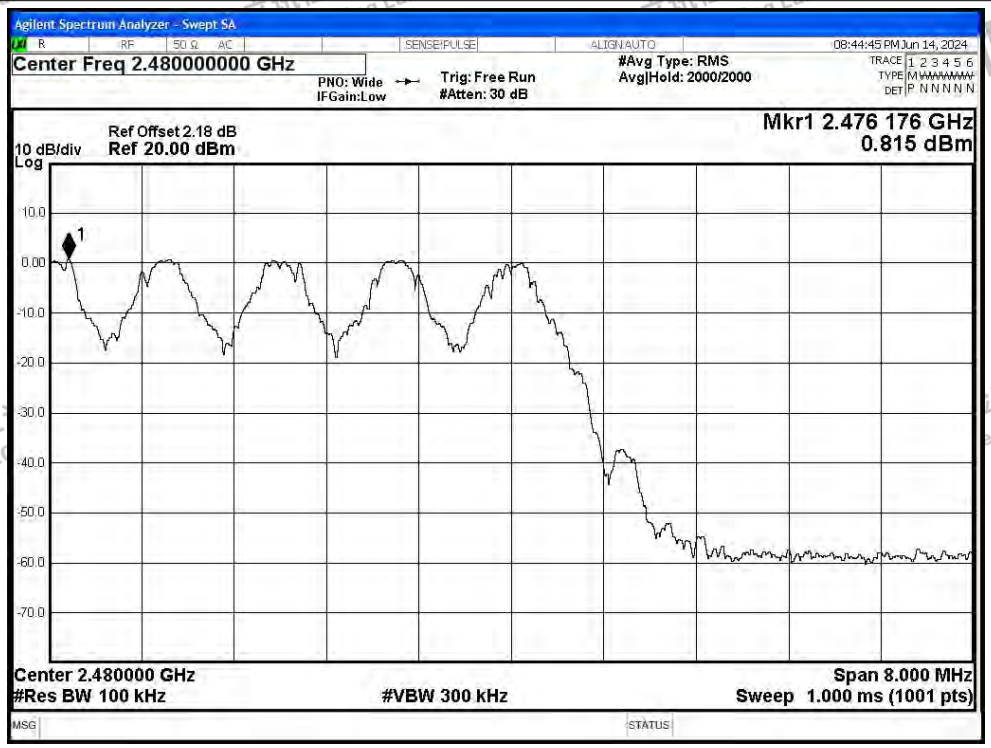
Test Graphs

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

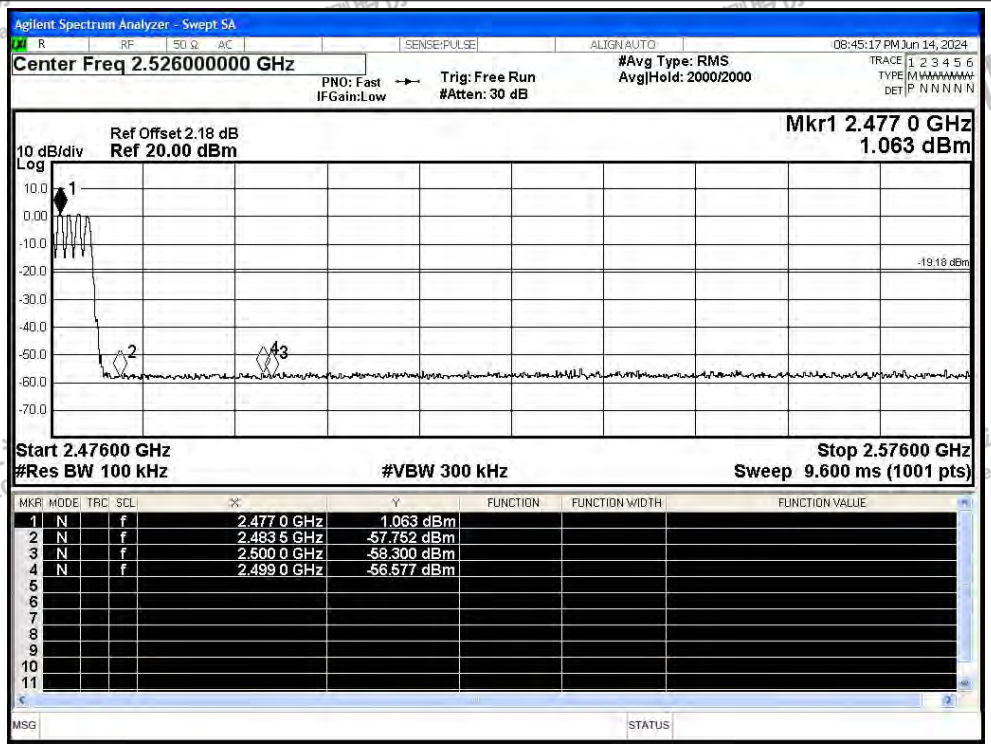
Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission



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

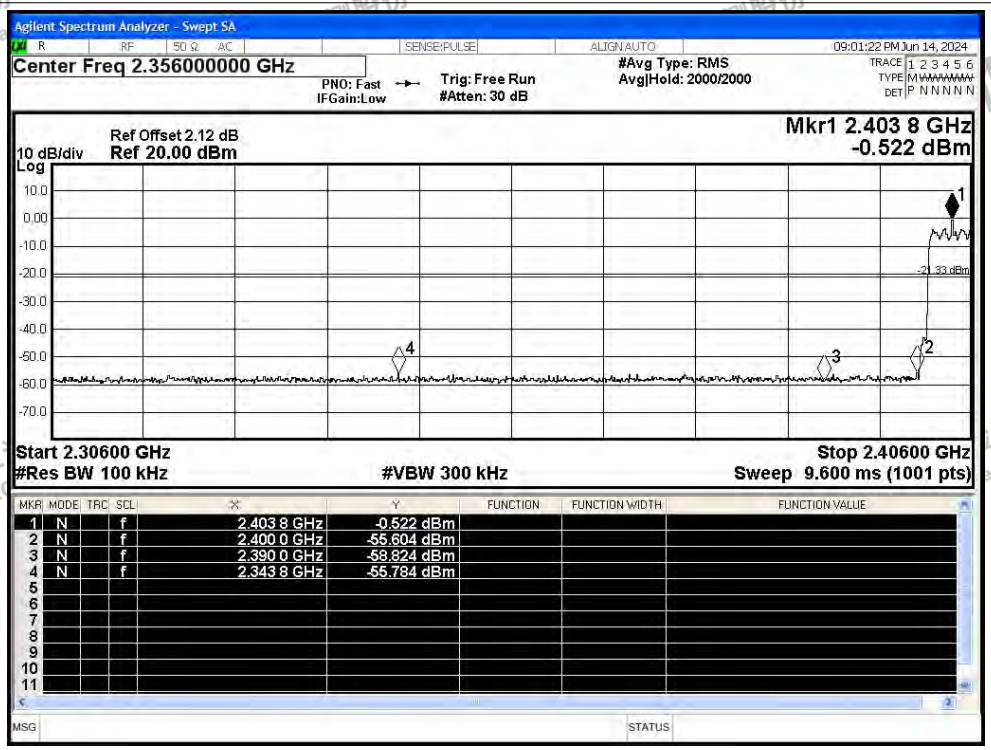


Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Emission



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

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



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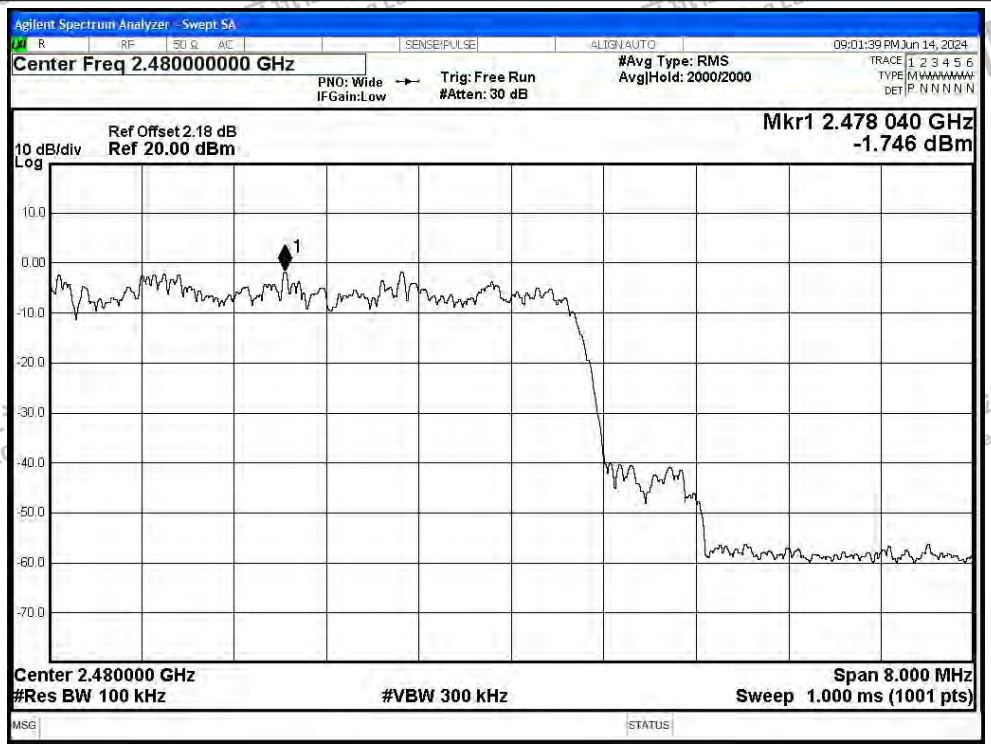
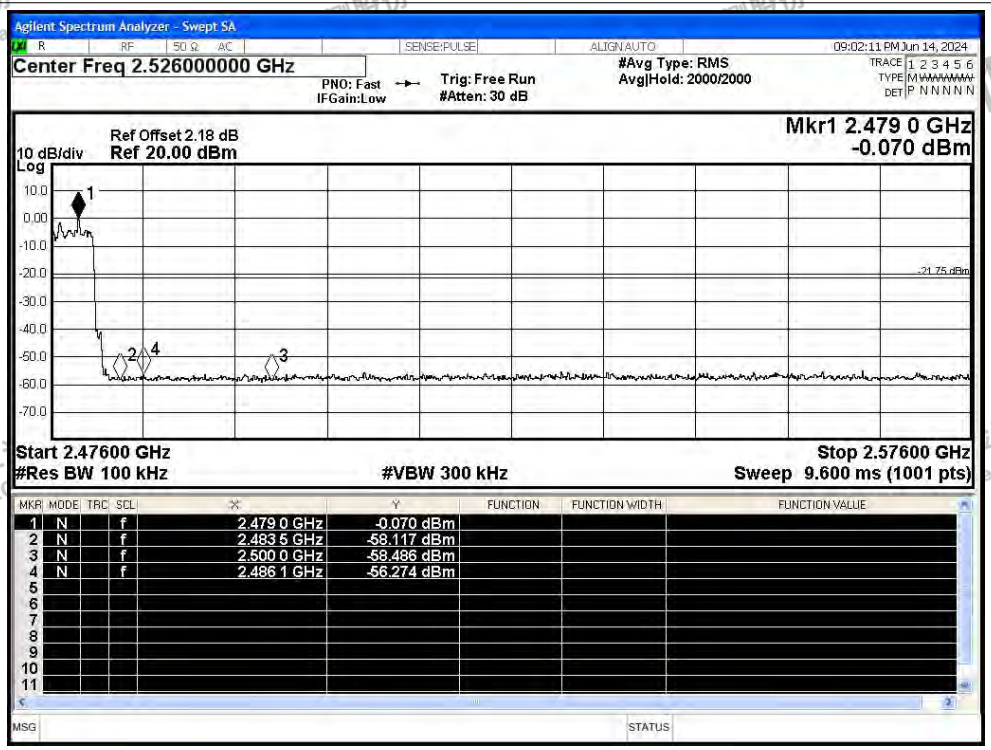
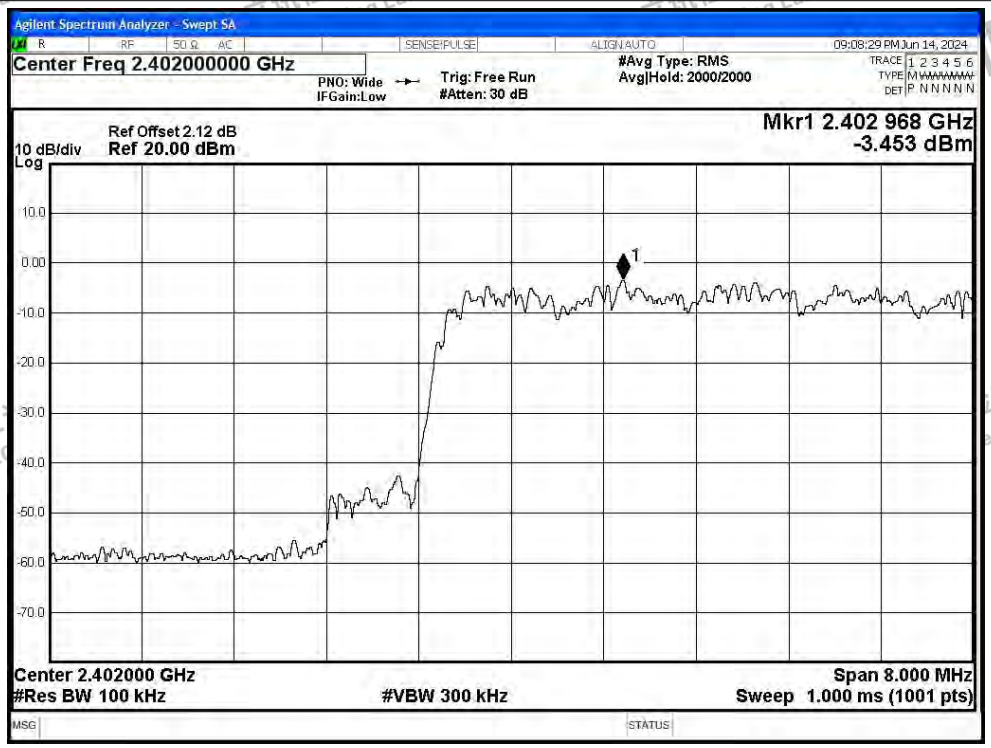


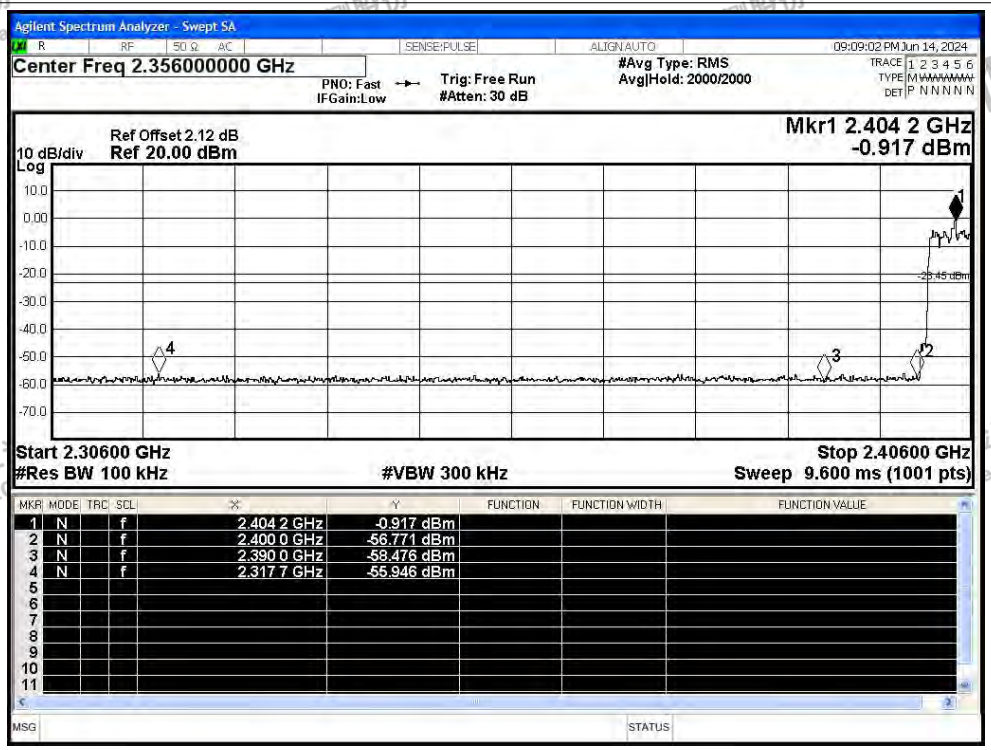
Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Emission



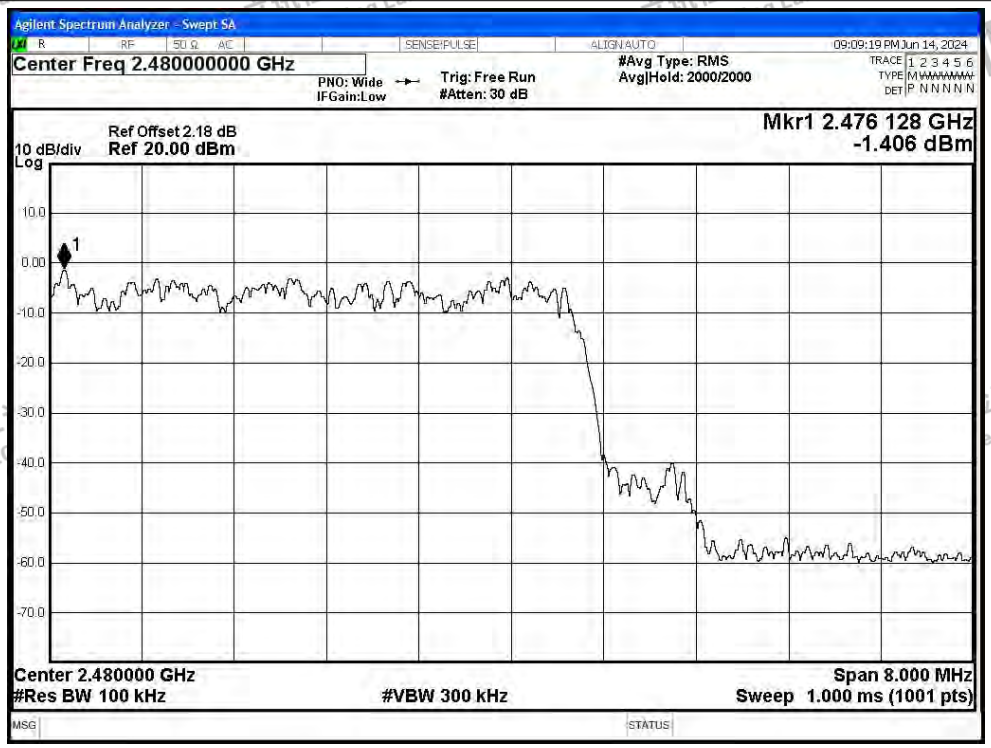
Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Ref



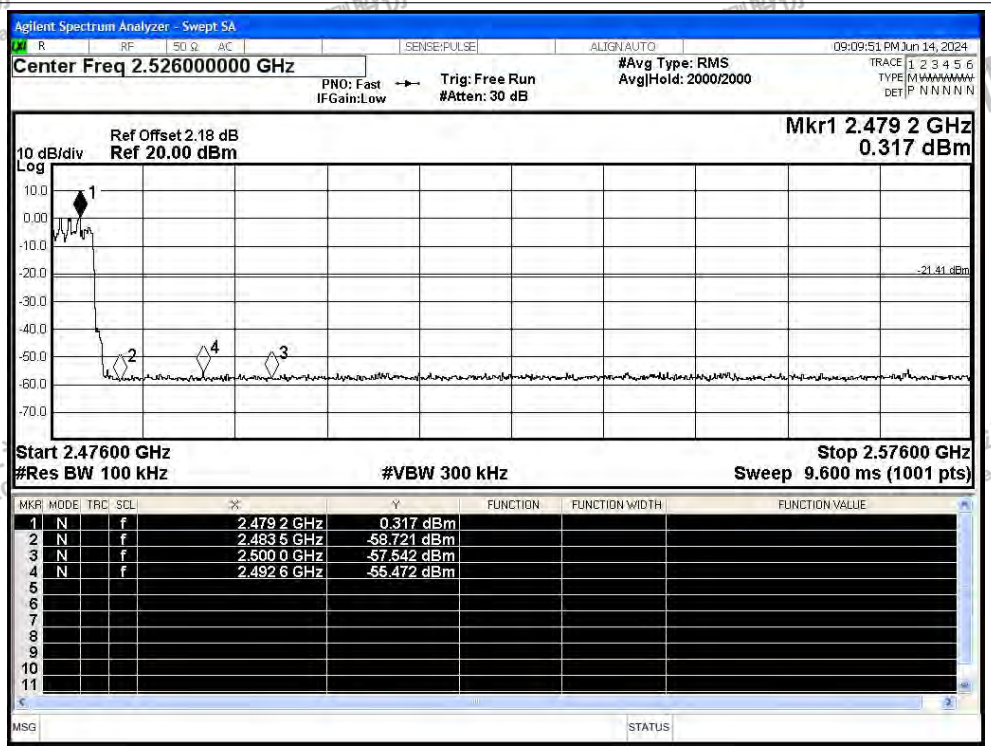
Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Emission



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



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



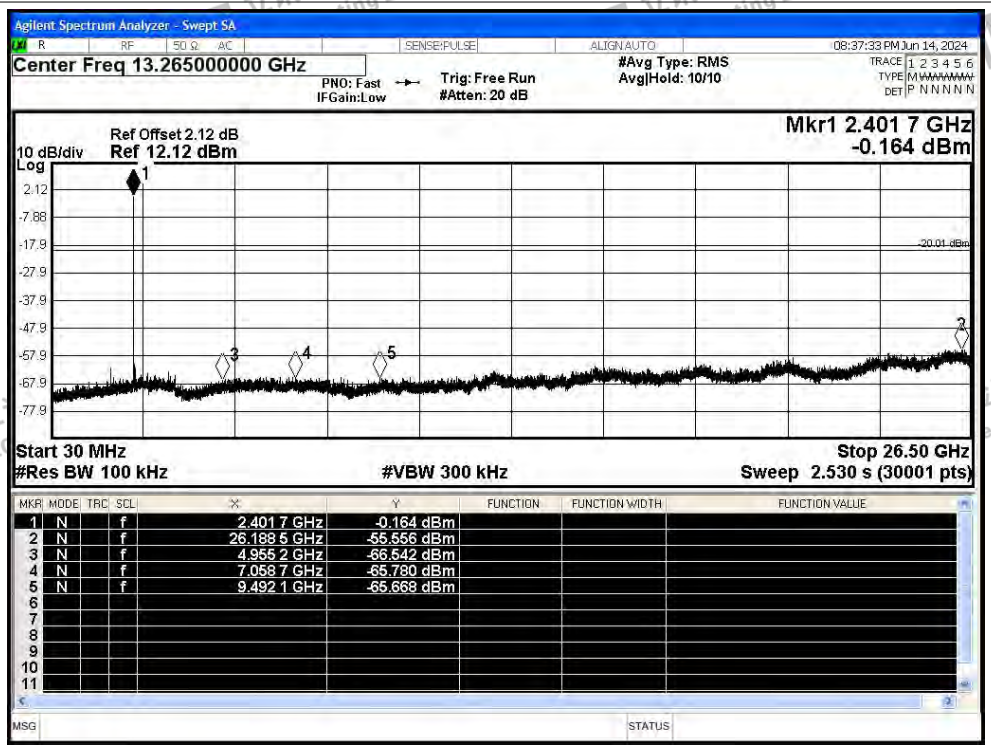
A.7 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-55.55	-20	Pass
NVNT	1-DH5	2441	Ant1	-54.68	-20	Pass
NVNT	1-DH5	2480	Ant1	-53.55	-20	Pass
NVNT	2-DH5	2402	Ant1	-54.61	-20	Pass
NVNT	2-DH5	2441	Ant1	-52.41	-20	Pass
NVNT	2-DH5	2480	Ant1	-53.49	-20	Pass
NVNT	3-DH5	2402	Ant1	-54.37	-20	Pass
NVNT	3-DH5	2441	Ant1	-52.52	-20	Pass
NVNT	3-DH5	2480	Ant1	-52.32	-20	Pass

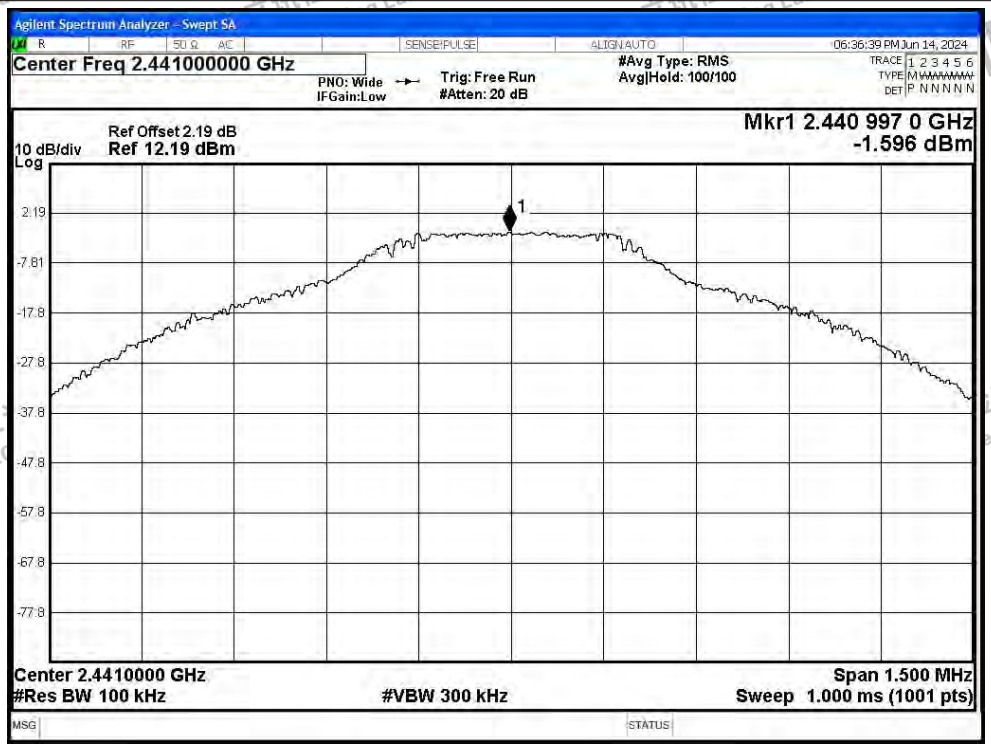
Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref

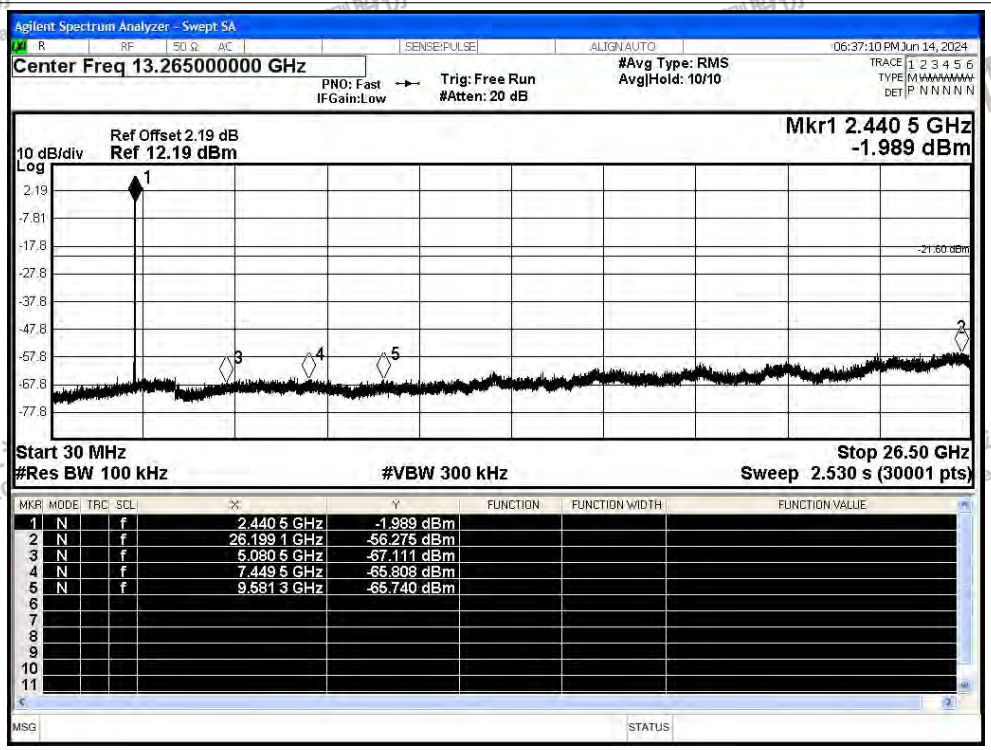
Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission



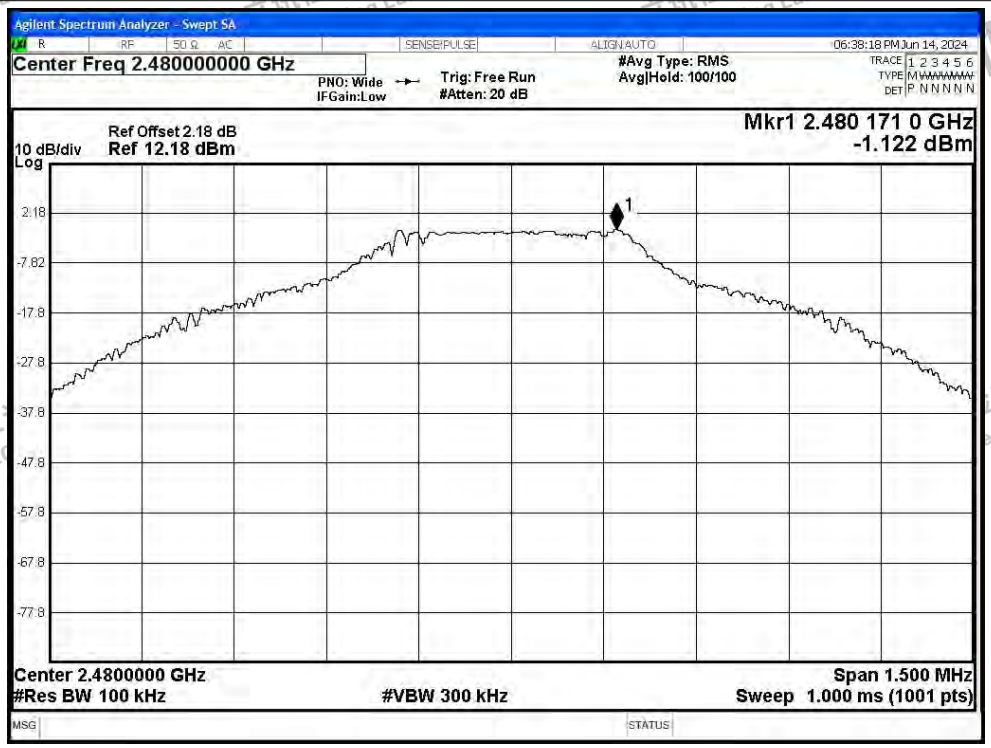
Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref



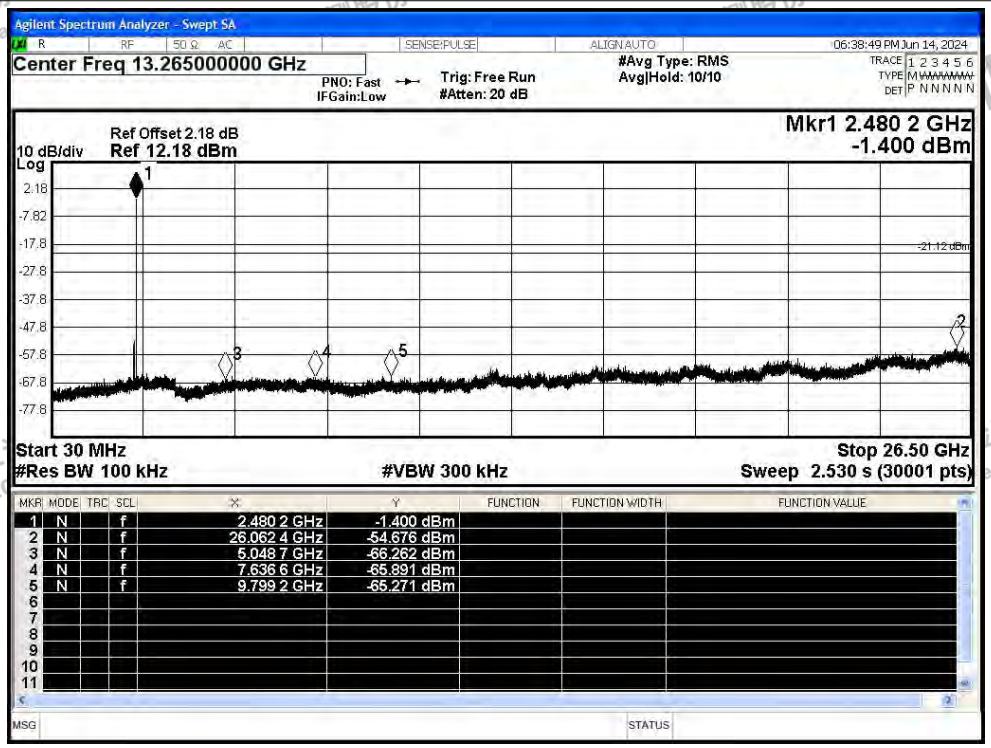
Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission



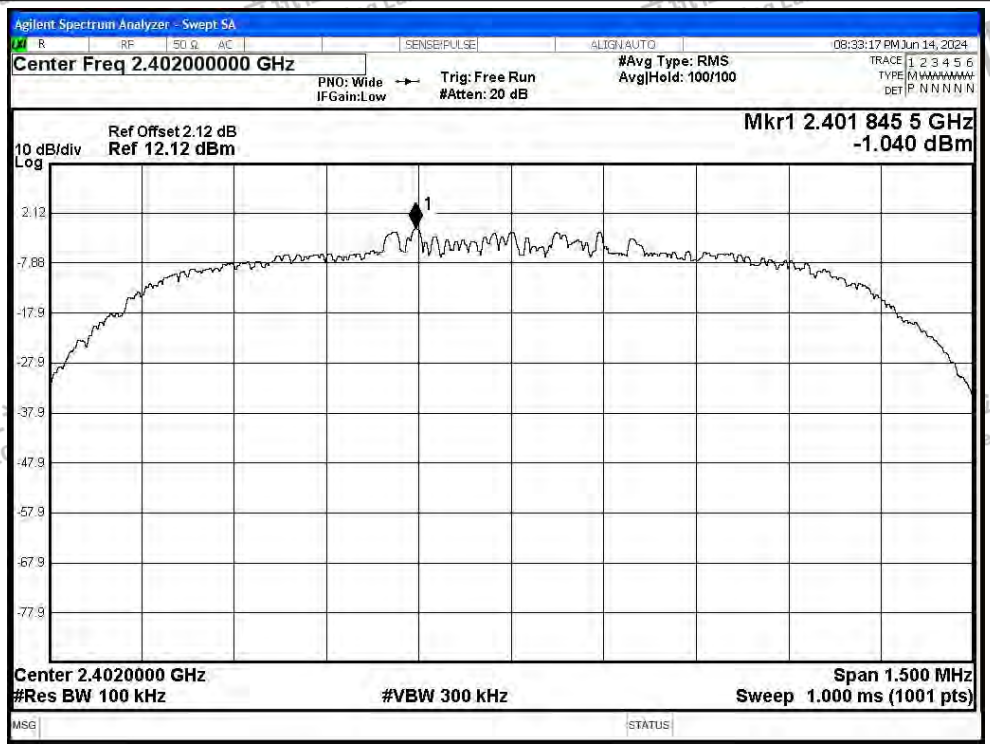
Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref



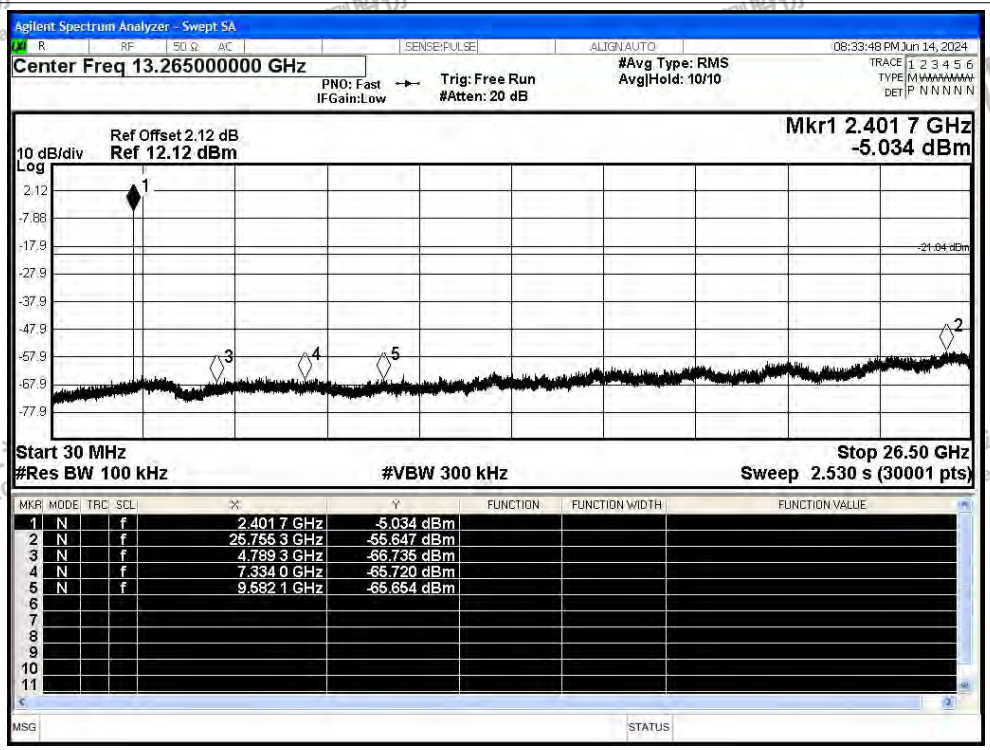
Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission



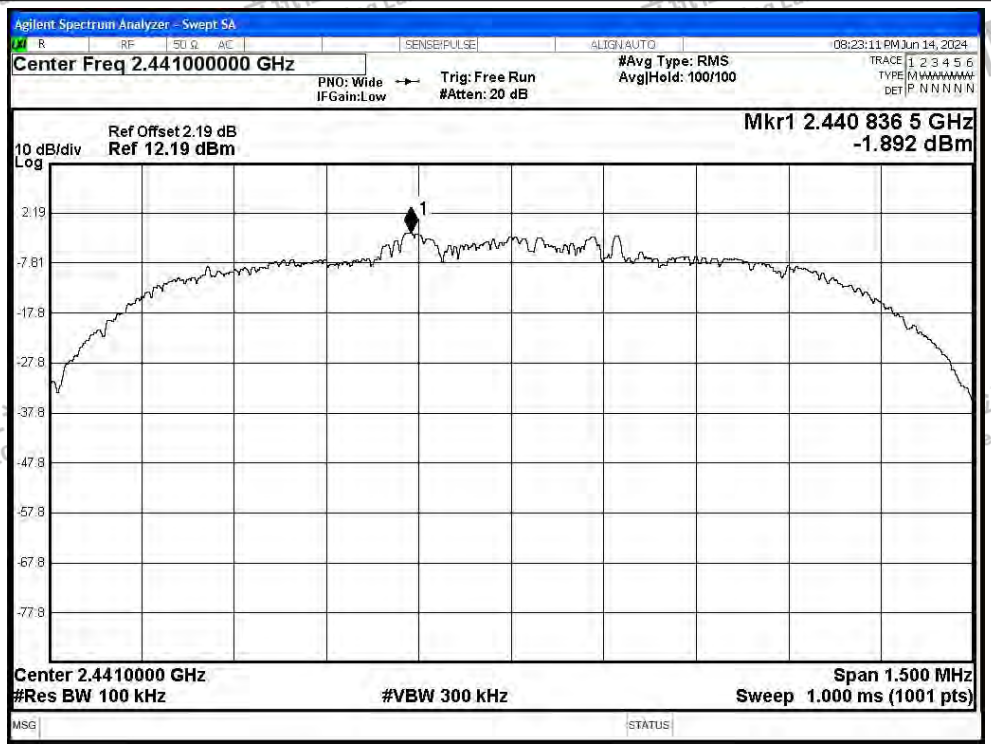
Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref



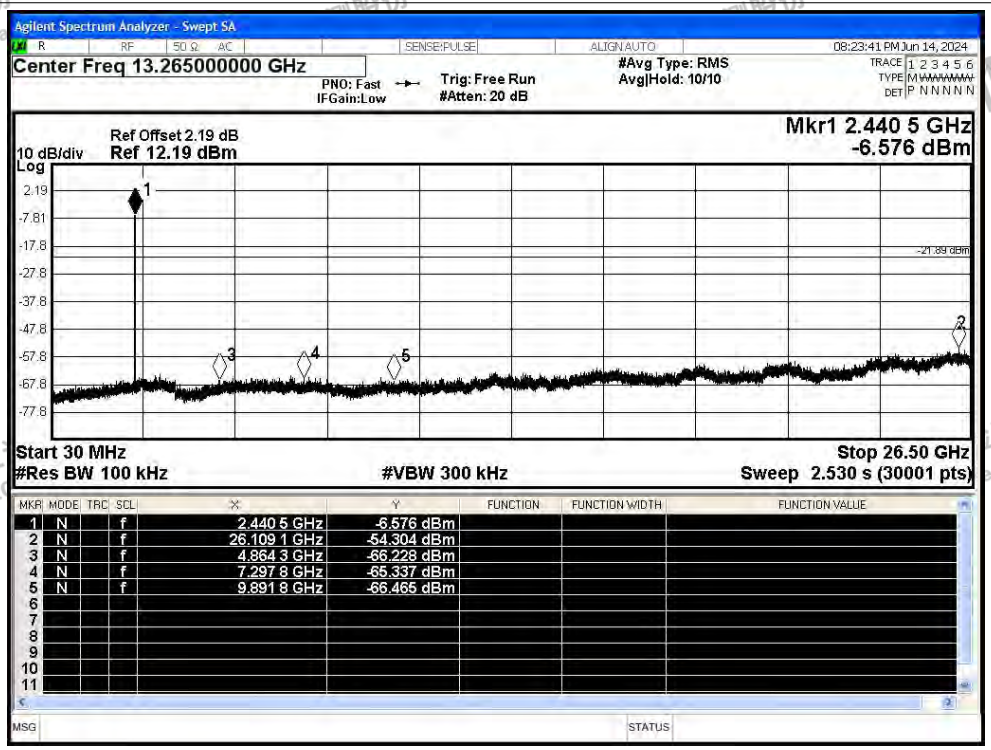
Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission



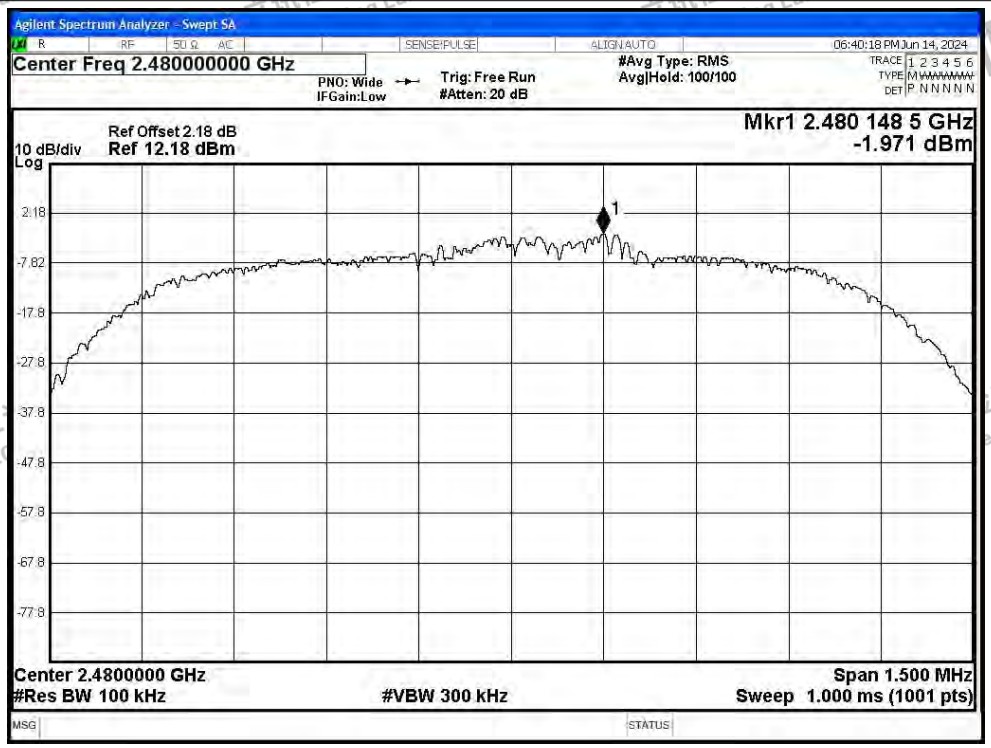
Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref



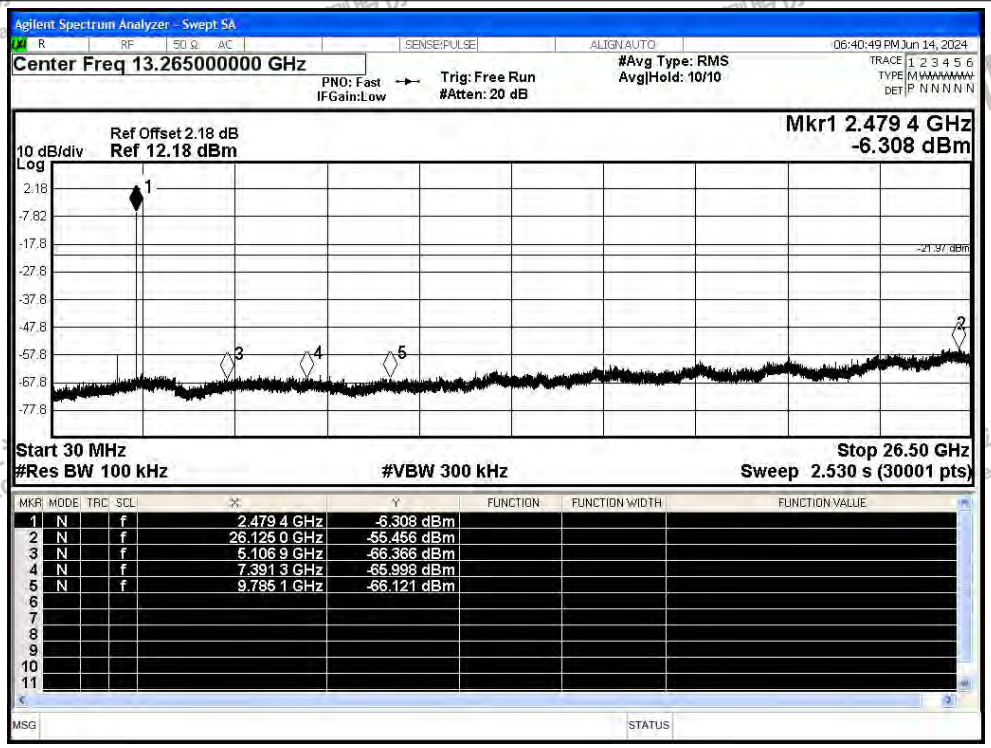
Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission



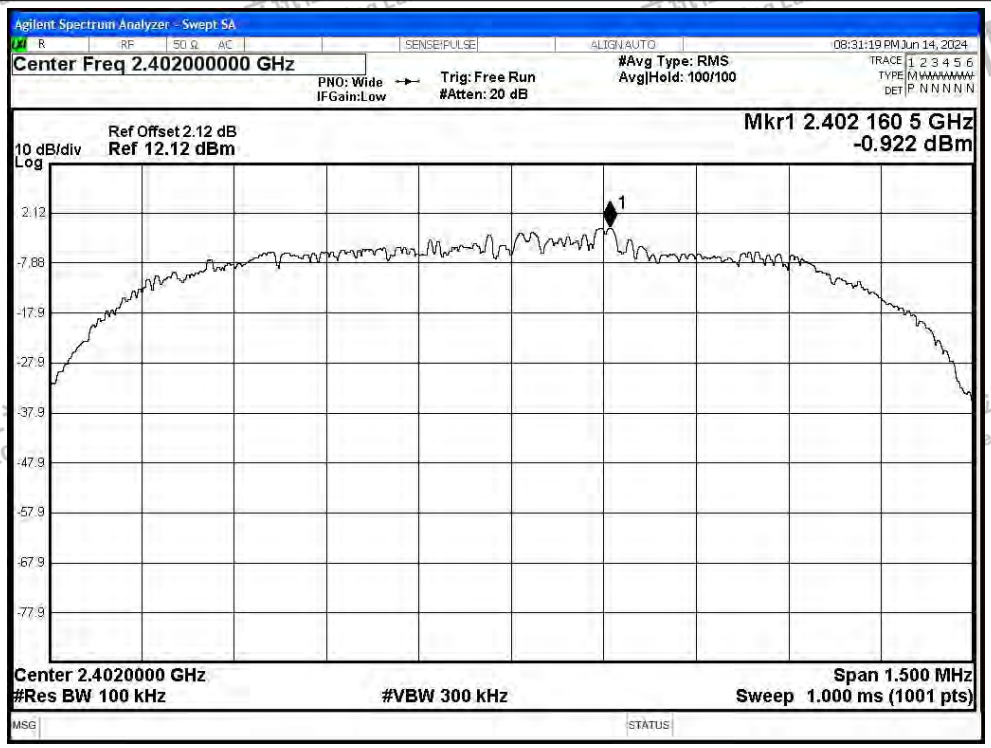
Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref



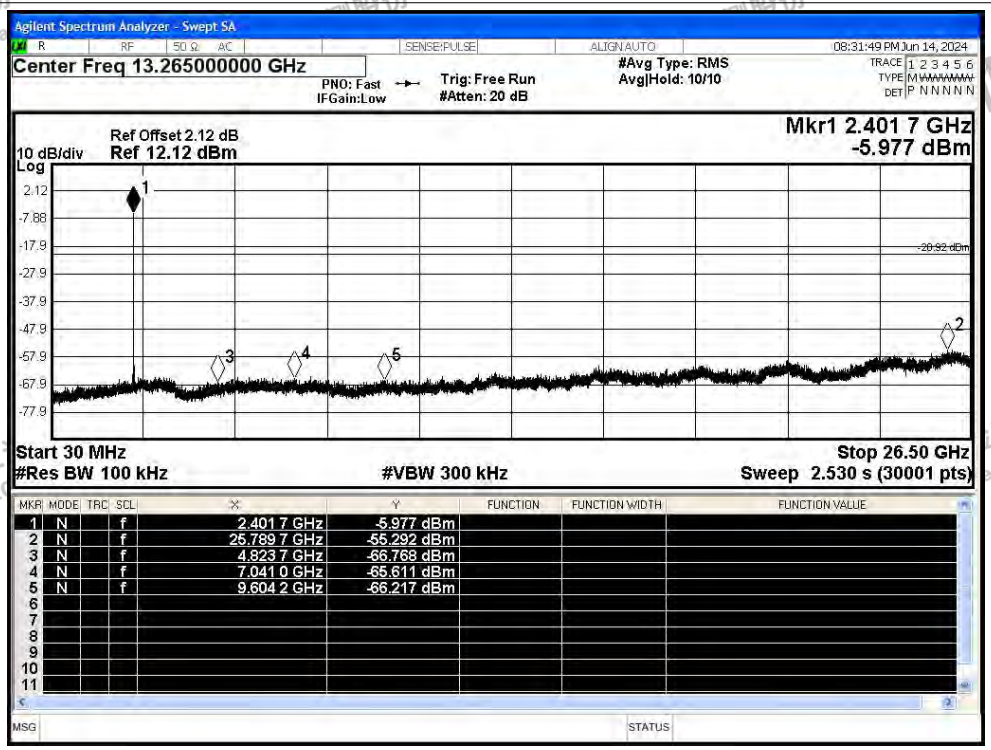
Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Emission



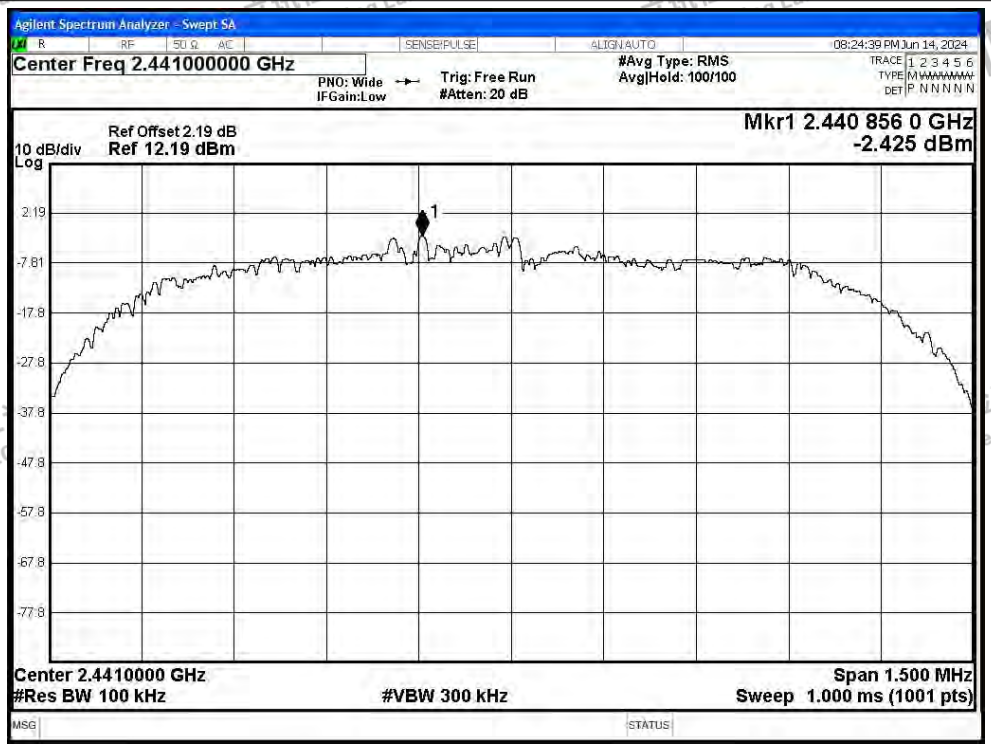
Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Ref



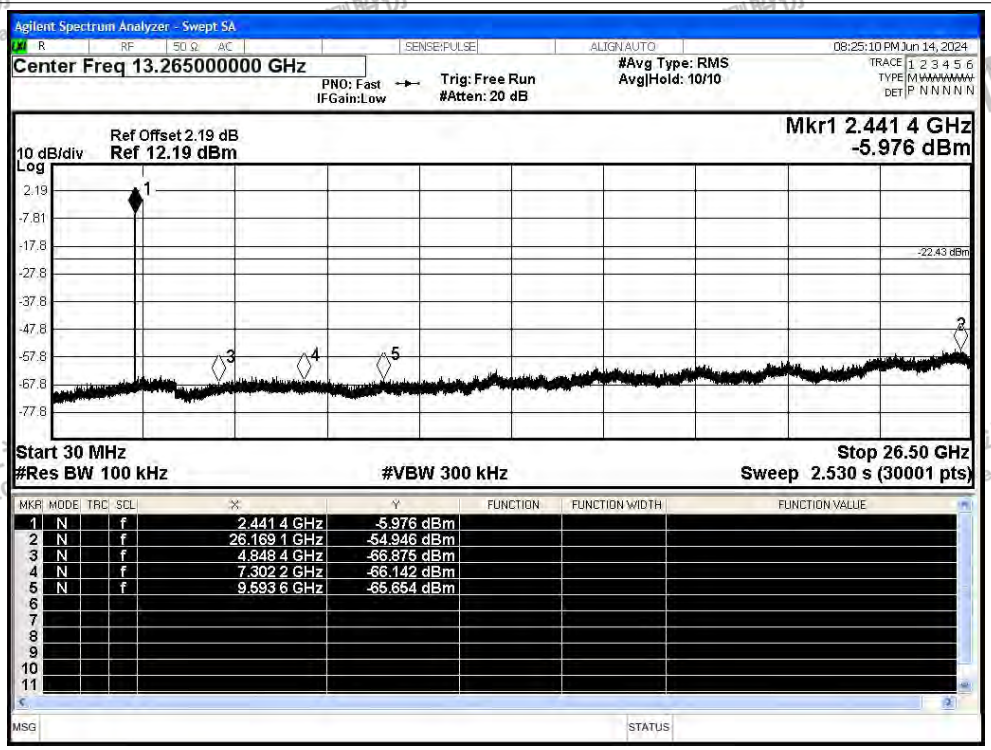
Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Emission



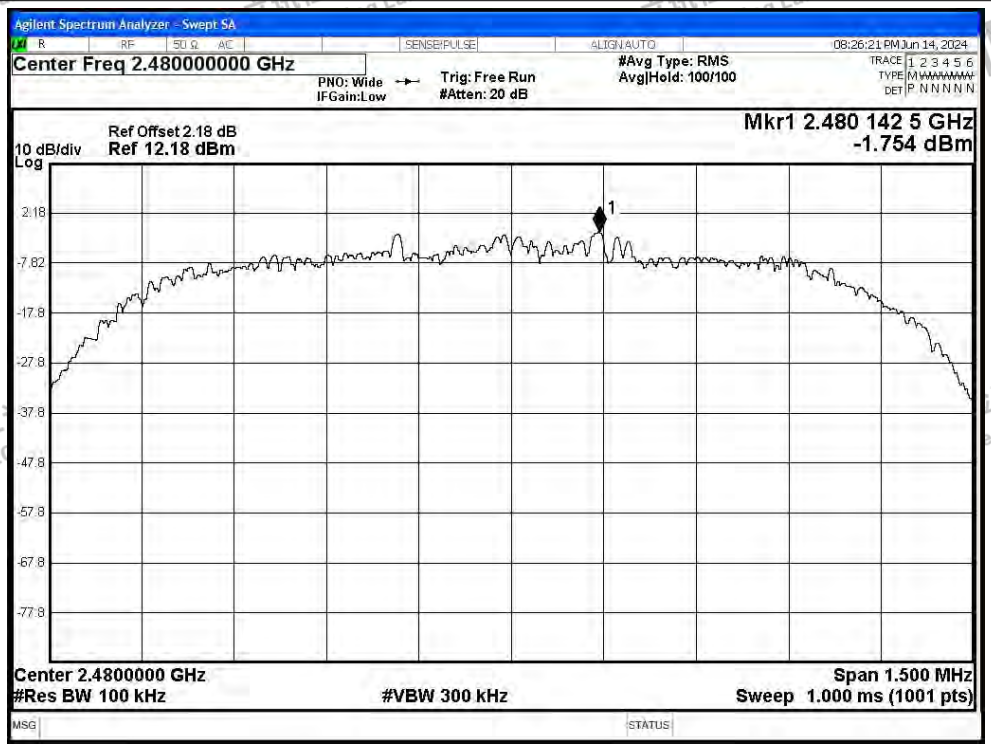
Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Ref



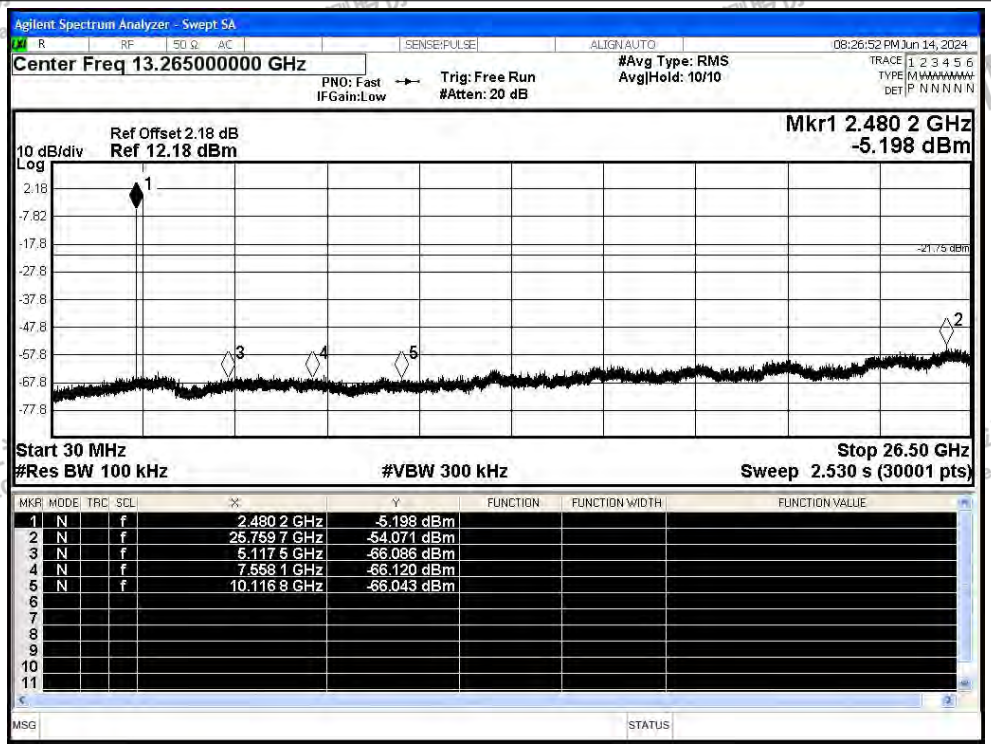
Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Emission



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Emission

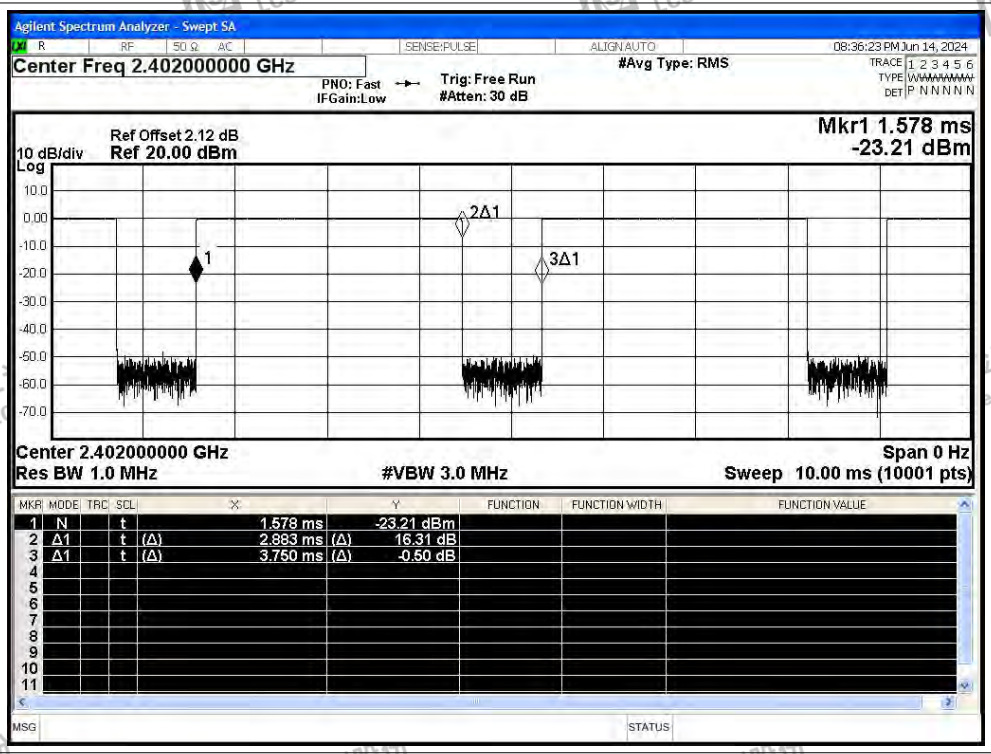


A.8 Duty Cycle

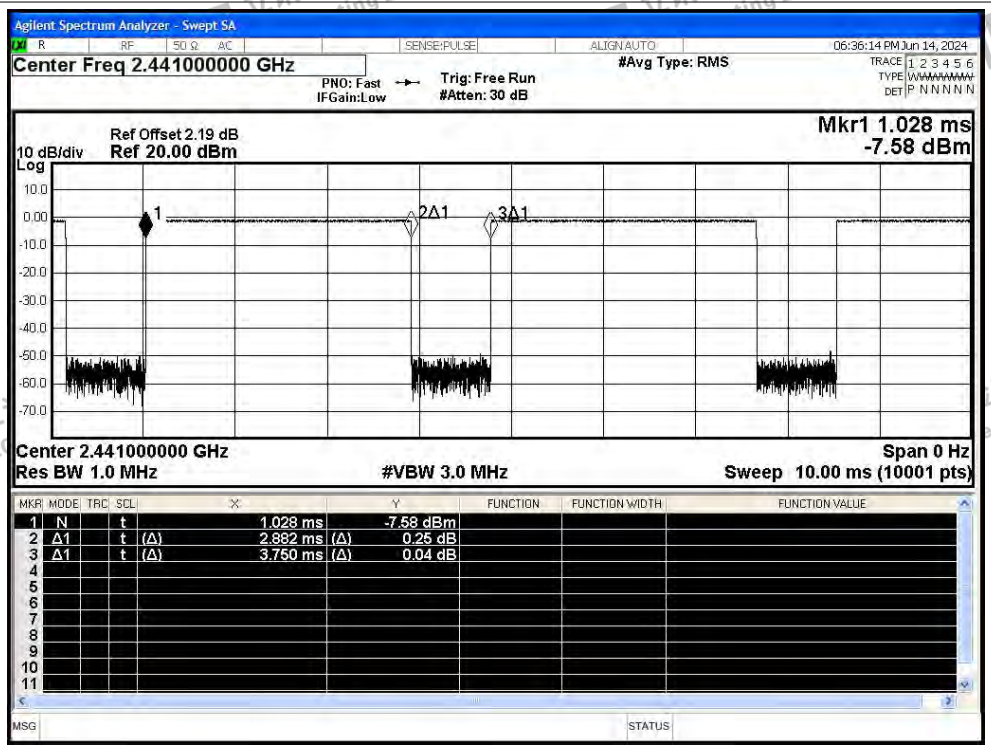
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	1-DH5	2402	Ant1	76.88	1.14	0.35
NVNT	1-DH5	2441	Ant1	76.85	1.14	0.35
NVNT	1-DH5	2480	Ant1	76.88	1.14	0.35
NVNT	2-DH5	2402	Ant1	76.99	1.14	0.35
NVNT	2-DH5	2441	Ant1	76.96	1.14	0.35
NVNT	2-DH5	2480	Ant1	76.96	1.14	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

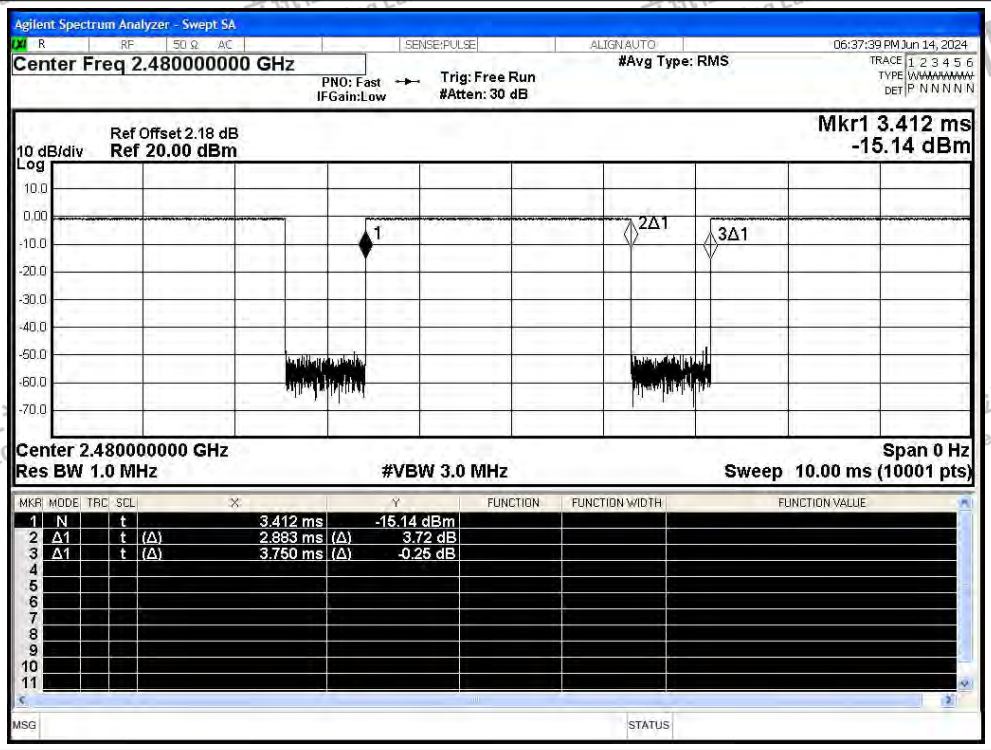
Duty Cycle NVNT 1-DH5 2402MHz Ant1



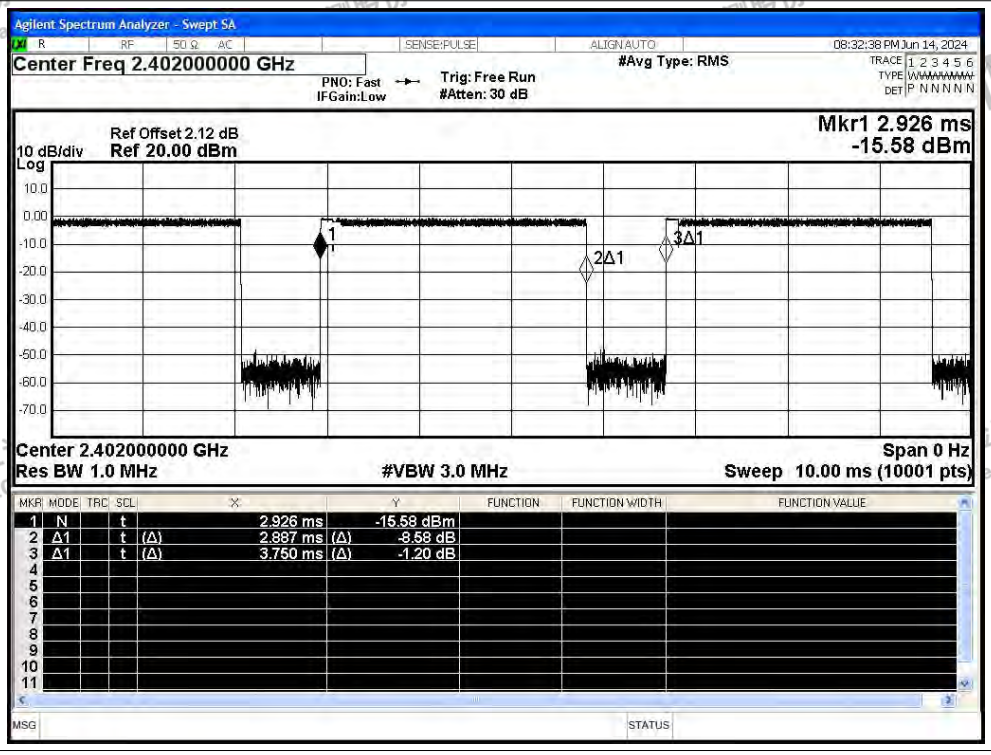
Duty Cycle NVNT 1-DH5 2441MHz Ant1



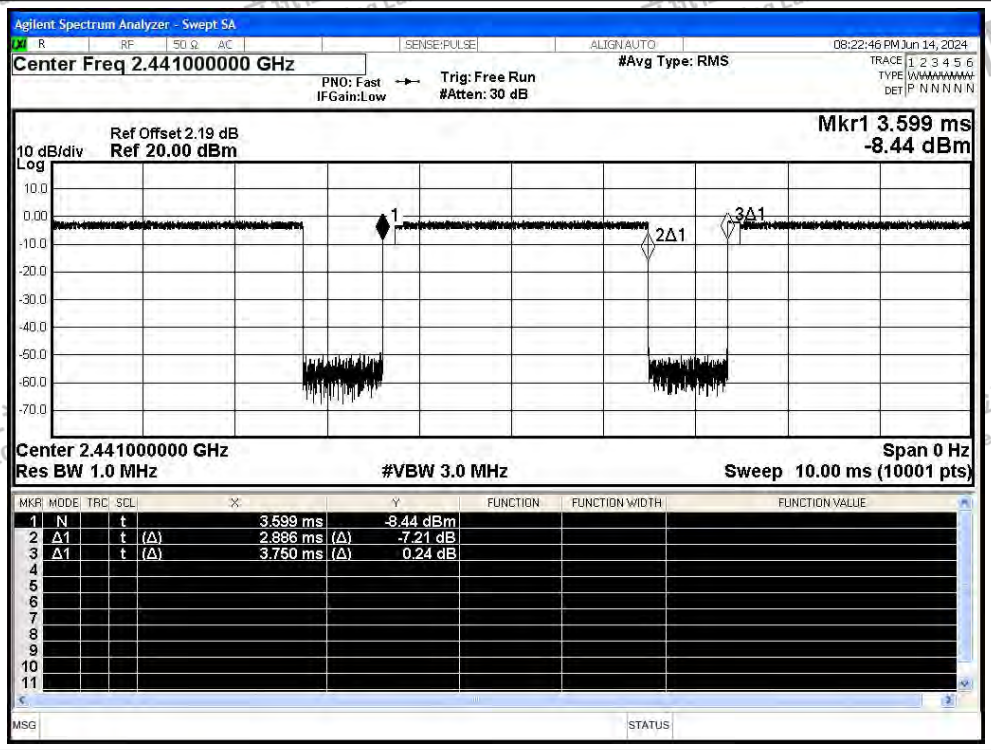
Duty Cycle NVNT 1-DH5 2480MHz Ant1



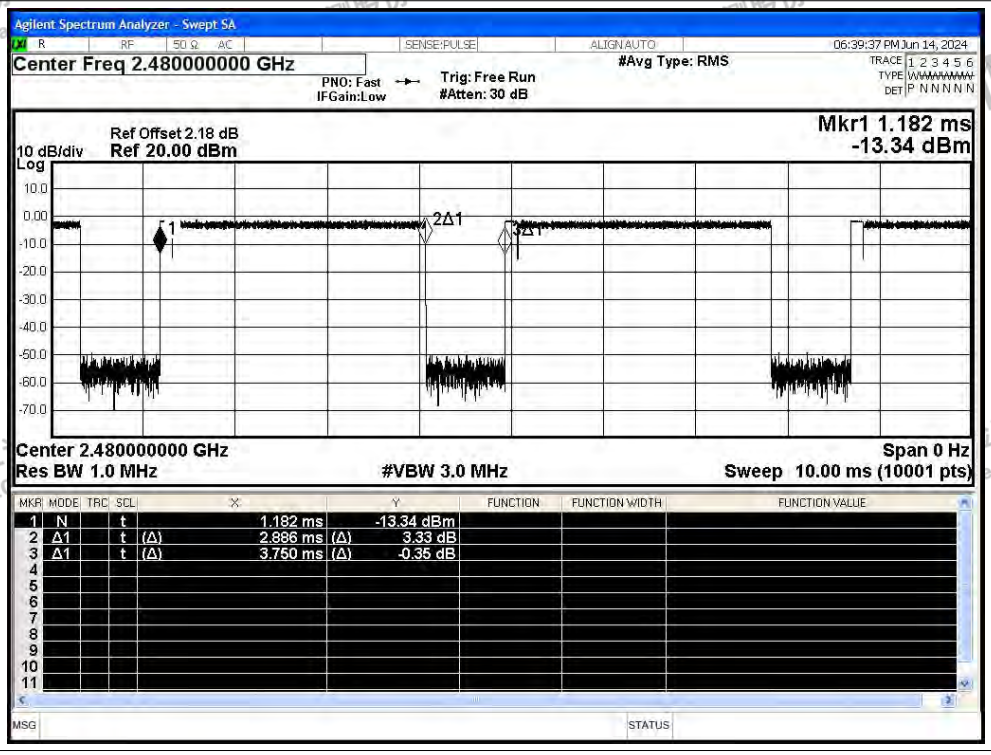
Duty Cycle NVNT 2-DH5 2402MHz Ant1



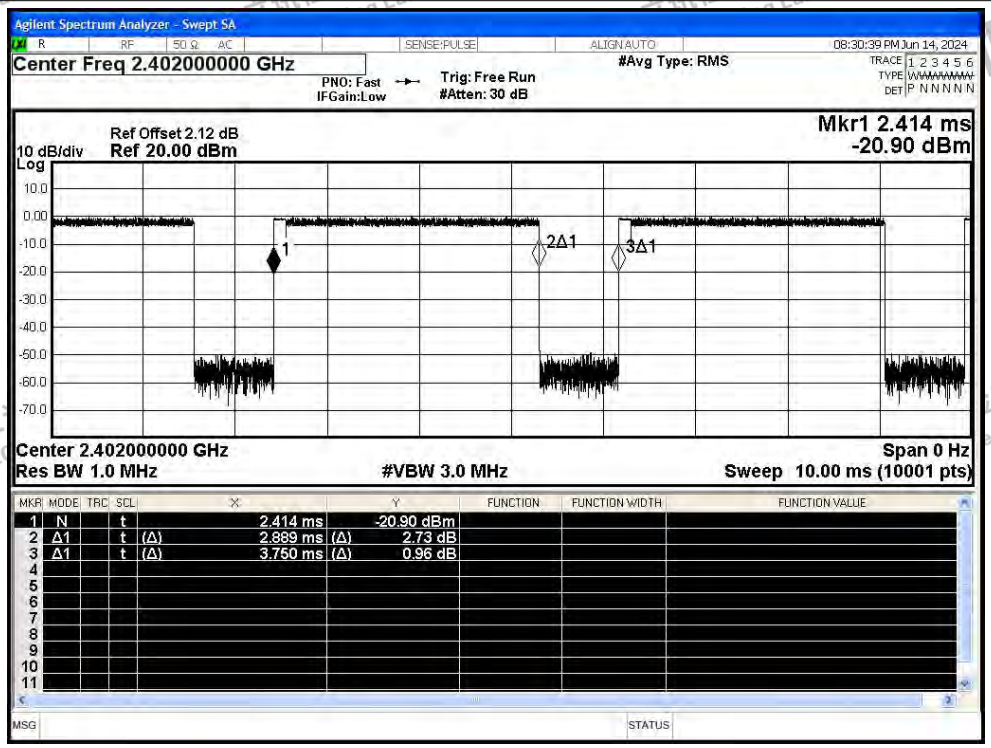
Duty Cycle NVNT 2-DH5 2441MHz Ant1



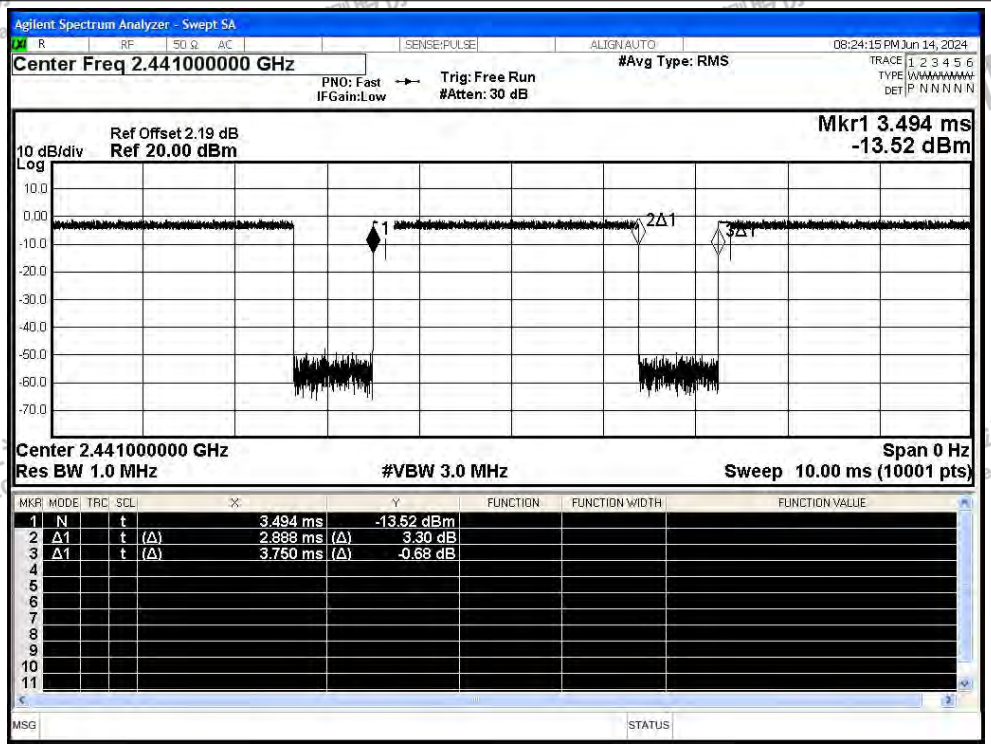
Duty Cycle NVNT 2-DH5 2480MHz Ant1



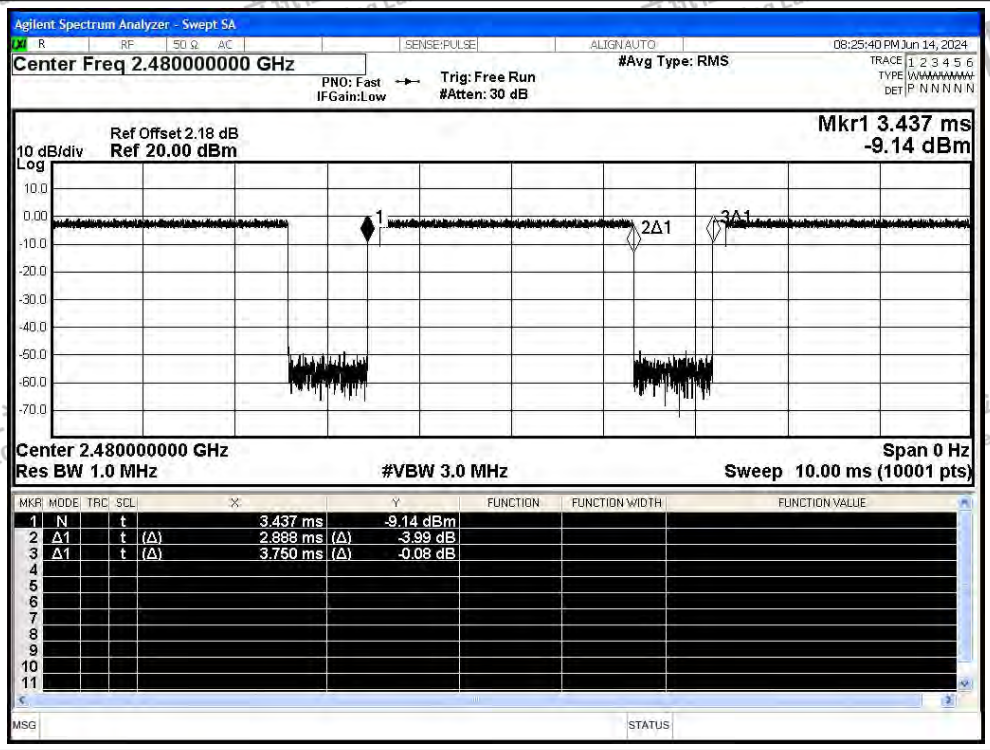
Duty Cycle NVNT 3-DH5 2402MHz Ant1



Duty Cycle NVNT 3-DH5 2441MHz Ant1



Duty Cycle NVNT 3-DH5 2480MHz Ant1

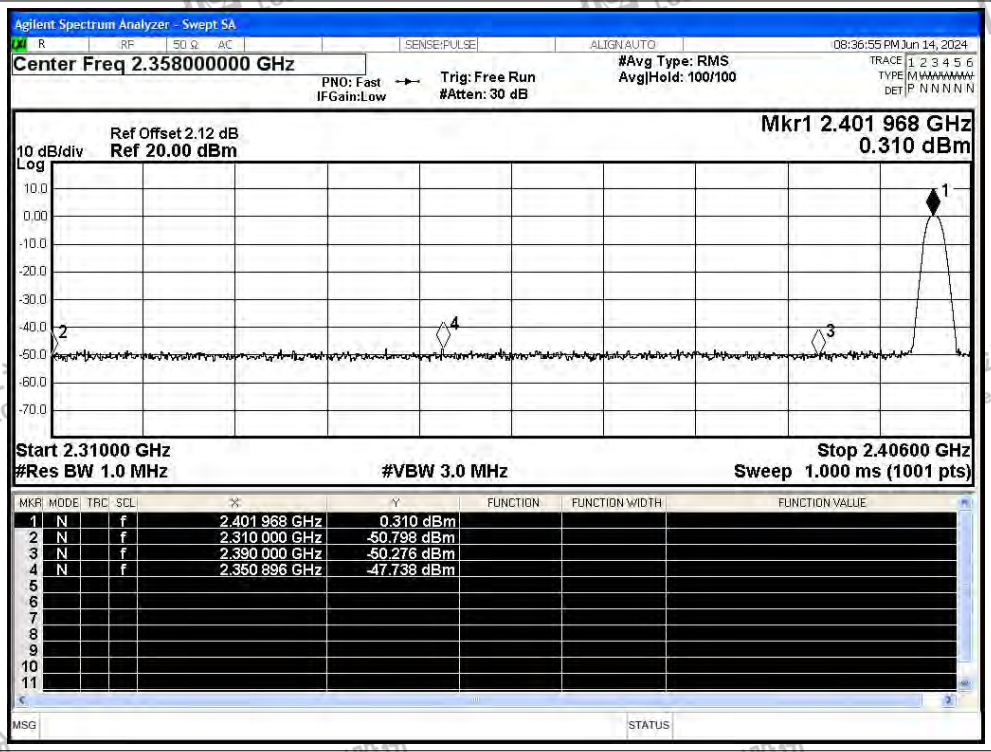


A.9 Restrict Band

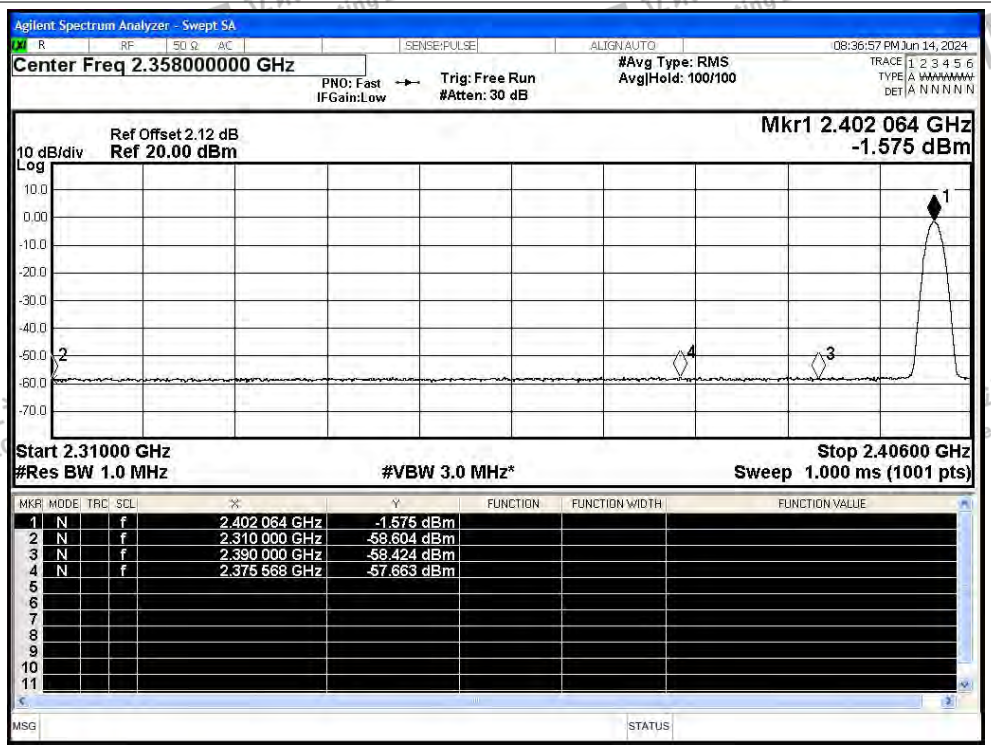
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-50.8	3.42	-	47.88	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-58.6	3.42	1.14	41.22	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2350.896	-47.74	3.42	-	50.94	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2375.568	-57.66	3.42	1.14	42.16	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-50.28	3.42	-	48.4	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-58.42	3.42	1.14	41.4	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-49.91	3.42	-	48.77	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-57.83	3.42	1.14	41.99	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2488.144	-46.86	3.42	-	51.82	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2498.68	-57.22	3.42	1.14	42.6	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-49.58	3.42	-	49.1	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-57.53	3.42	1.14	42.29	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-52.35	3.42	-	46.33	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-58.95	3.42	1.14	40.87	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2373.36	-47.18	3.42	-	51.5	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2378.64	-57.42	3.42	1.14	42.4	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-49.59	3.42	-	49.09	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-57.65	3.42	1.14	42.17	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-50.32	3.42	-	48.36	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-58.18	3.42	1.14	41.64	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2484.328	-47.03	3.42	-	51.65	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2489.656	-57.17	3.42	1.14	42.65	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-49.84	3.42	-	48.84	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-57.75	3.42	1.14	42.07	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-51.51	3.42	-	47.17	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-57.71	3.42	1.13	42.1	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2321.712	-47.3	3.42	-	51.38	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-51.84	3.42	-	46.84	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-58.34	3.42	1.13	41.47	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-50.3	3.42	-	48.38	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-57.65	3.42	1.13	42.16	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2492.92	-47.75	3.42	-	50.93	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.896	-57.1	3.42	1.13	42.71	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-50.39	3.42	-	48.29	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-58.16	3.42	1.13	41.65	Average	54	Pass

Test Graphs

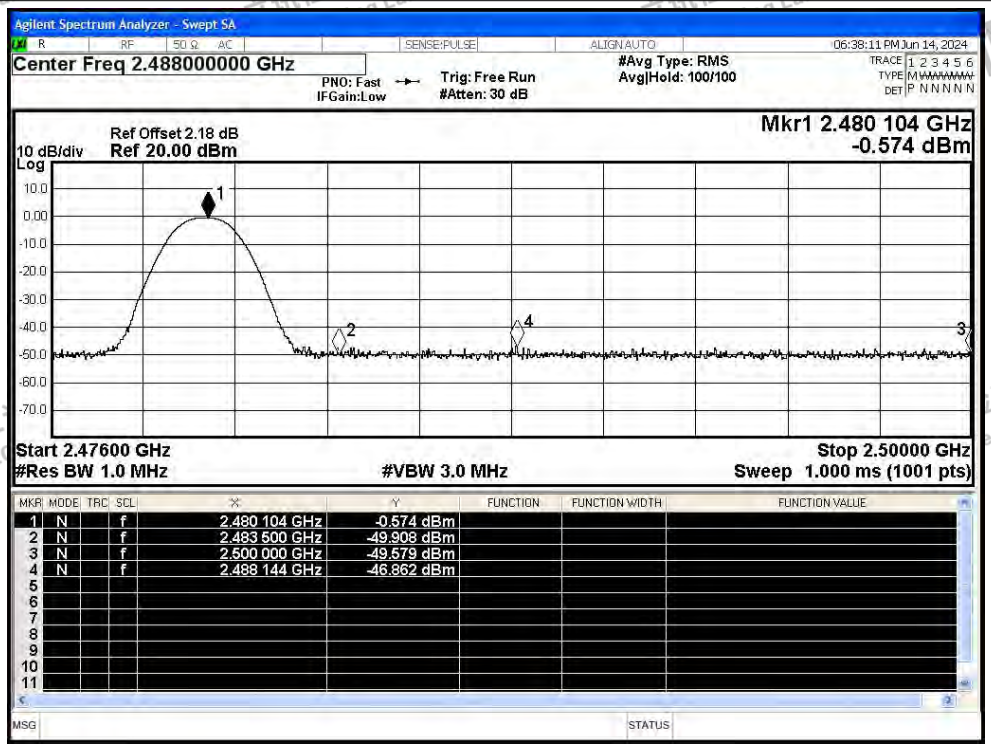
Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Peak



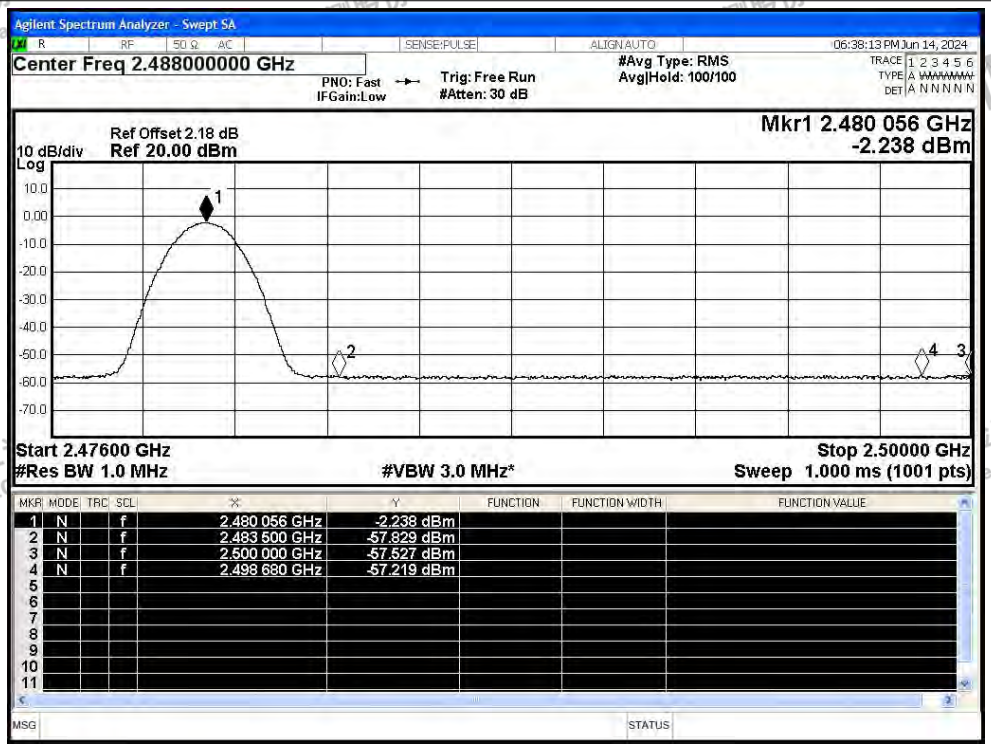
Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Average



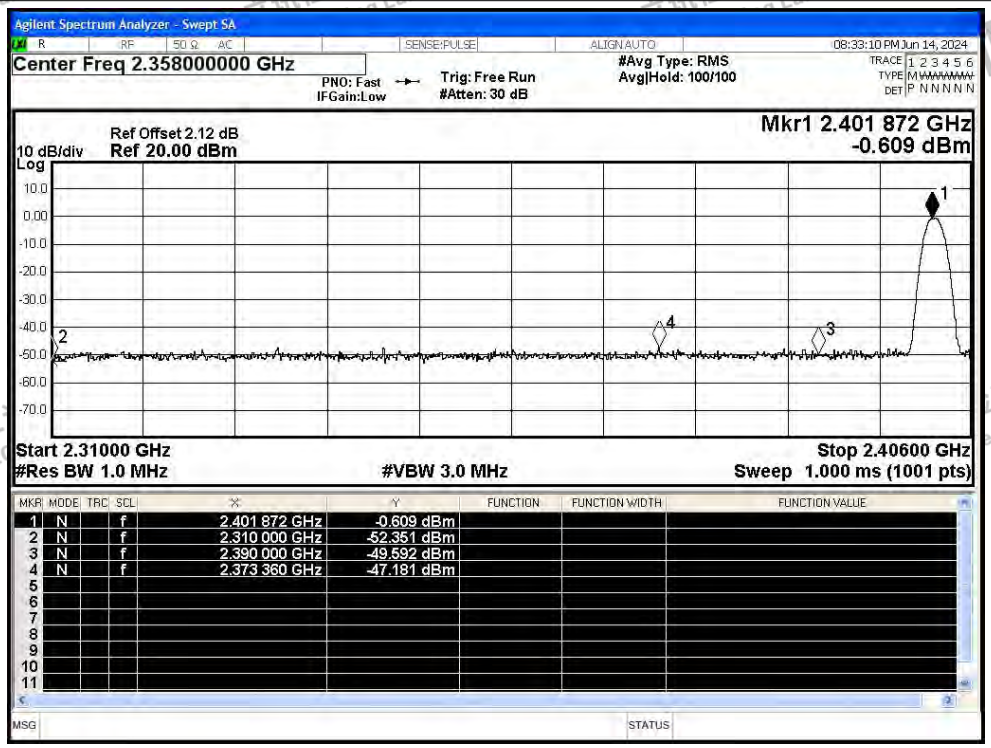
Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Peak



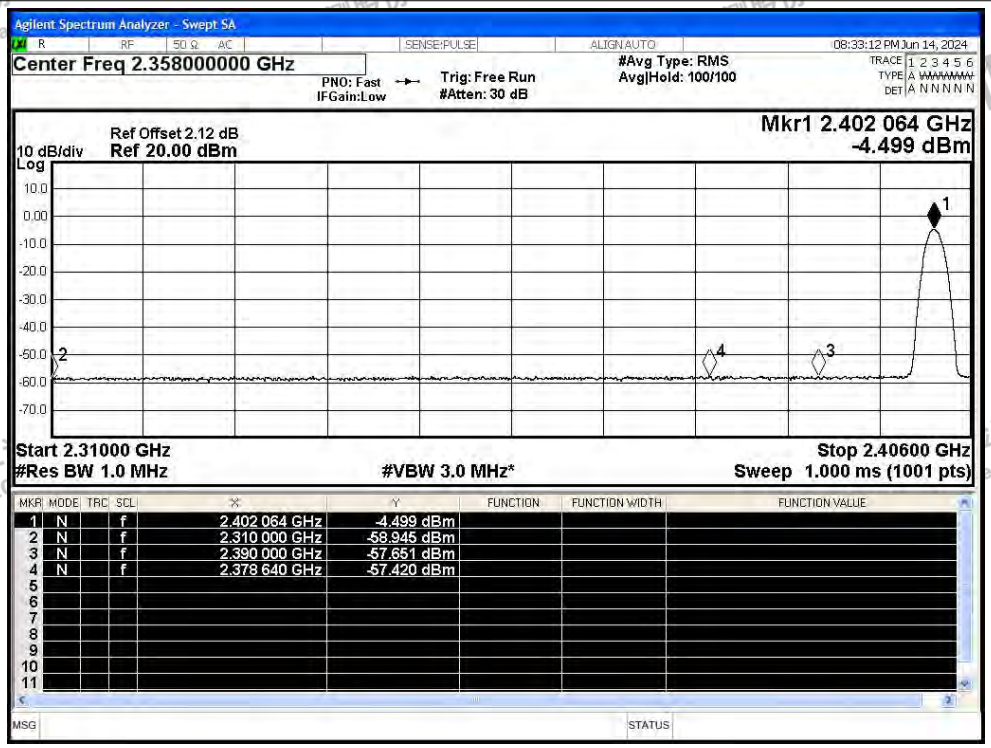
Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Average



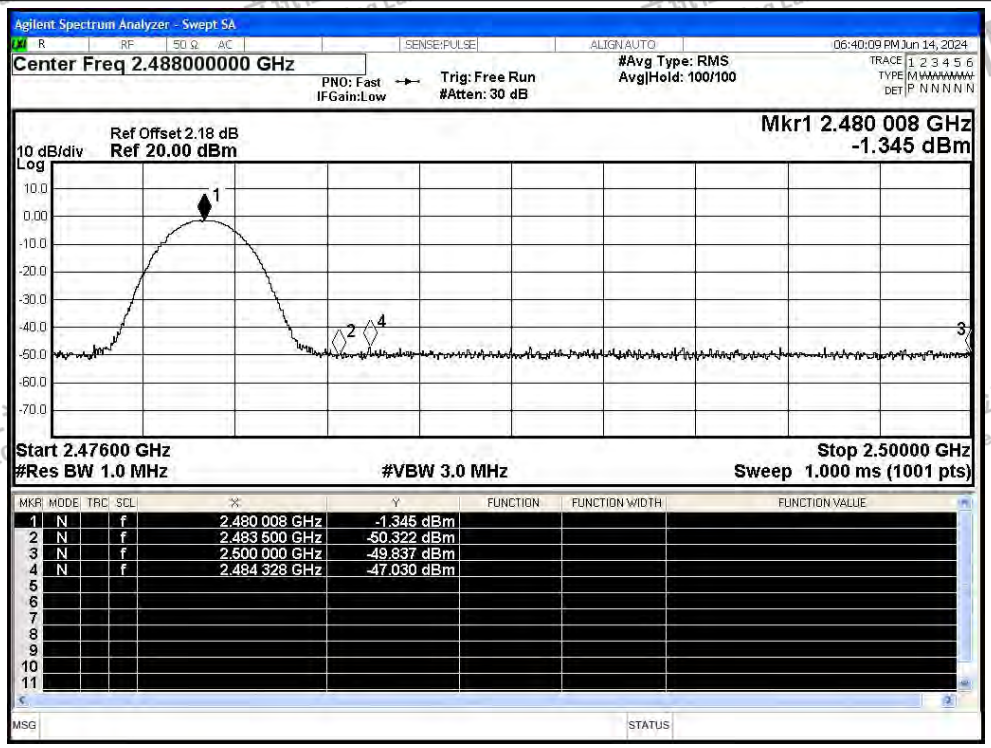
Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Peak



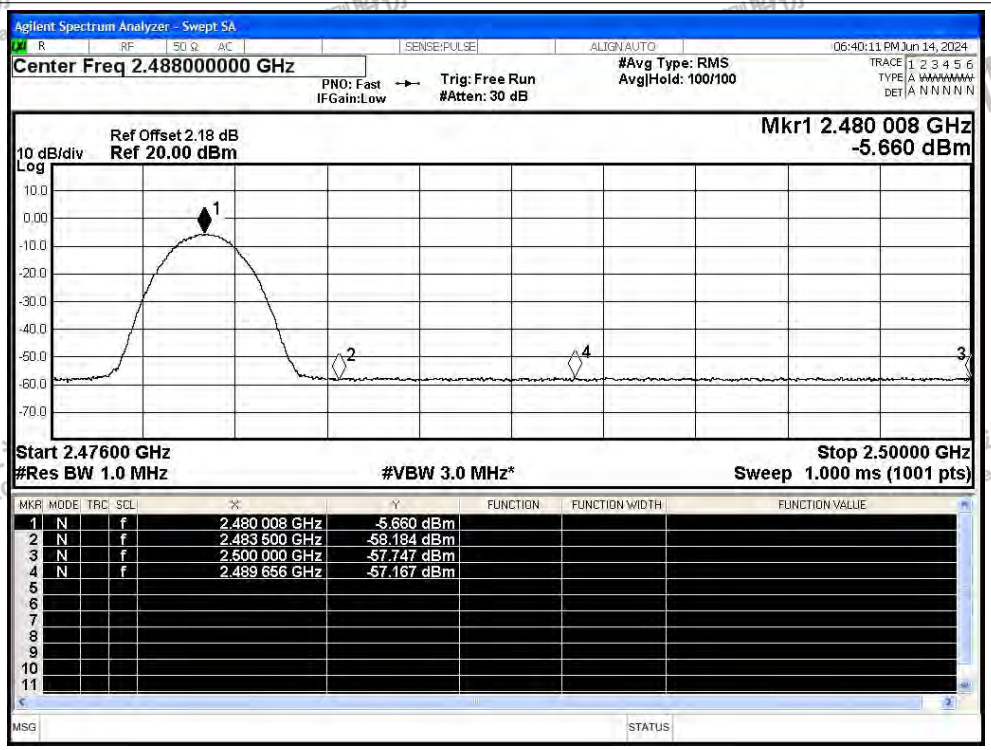
Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Average



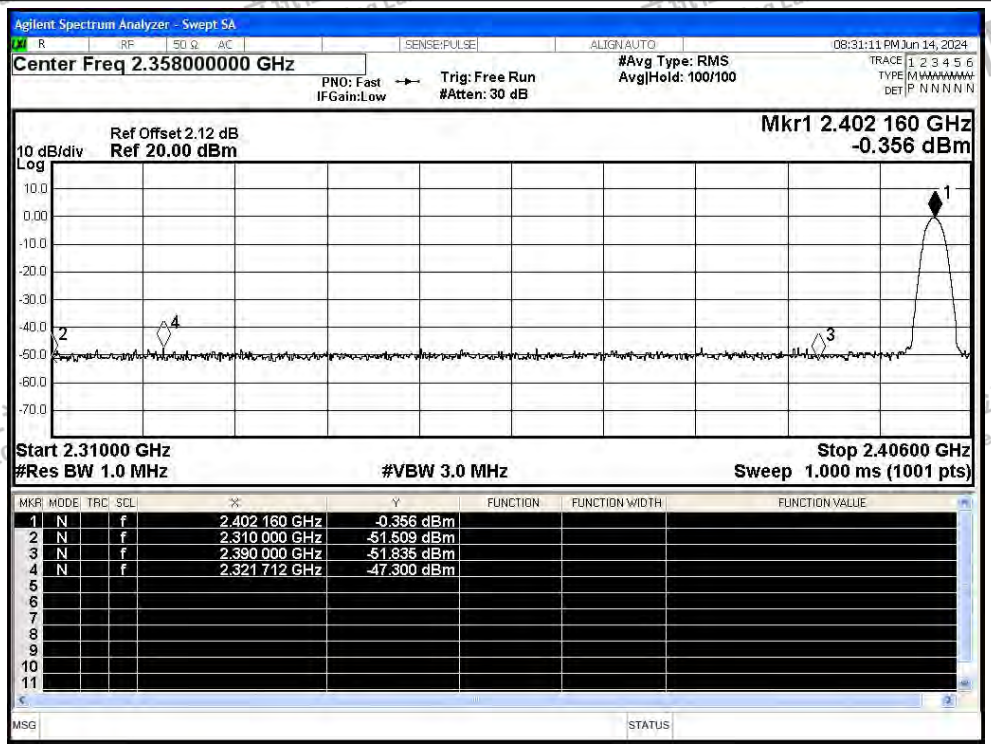
Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Peak



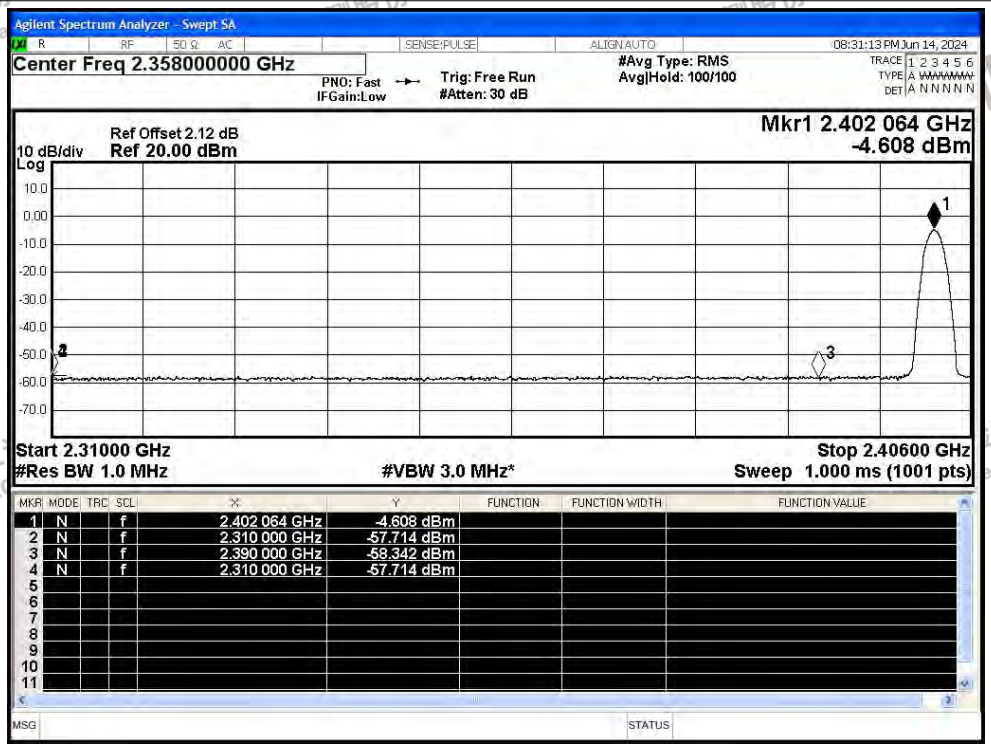
Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Average



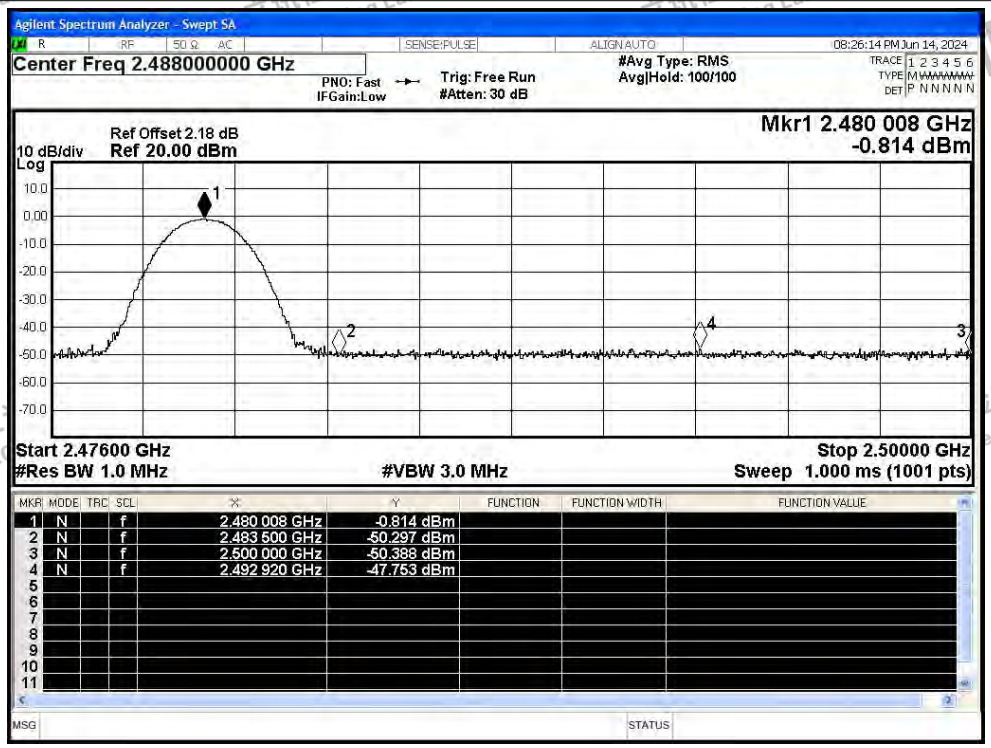
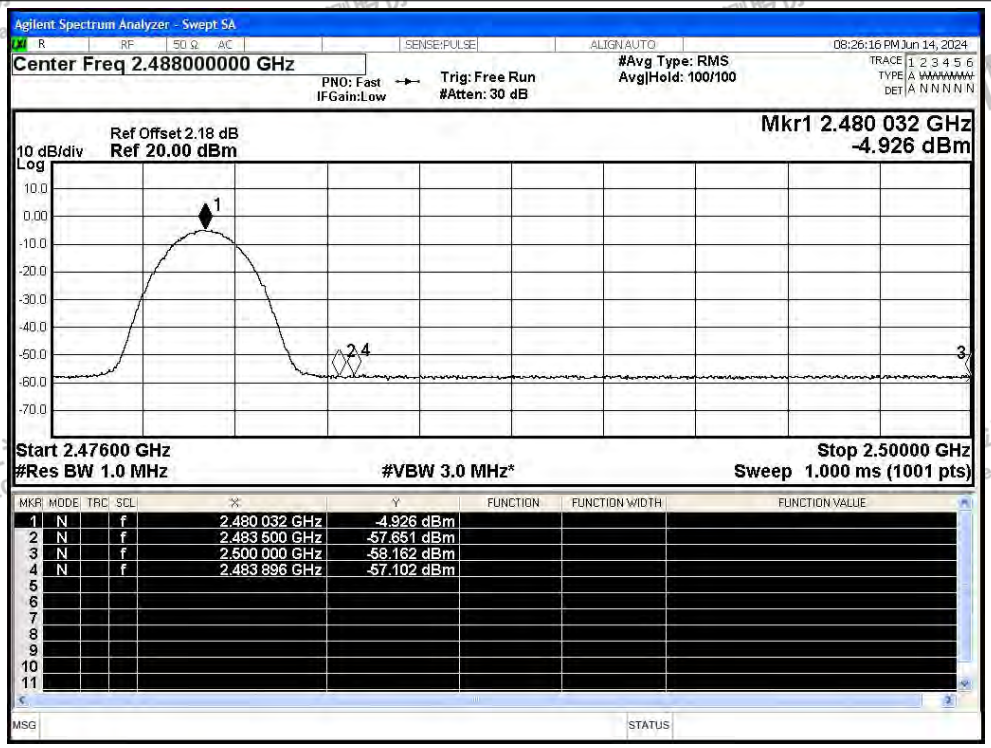
Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Peak



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