Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Bluetooth Earbuds

Test Model: Airyou Fly 1

Environmental Conditions

Temperature:	23.8 ° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Joker Hu
Supervised by:	Ling Zhu

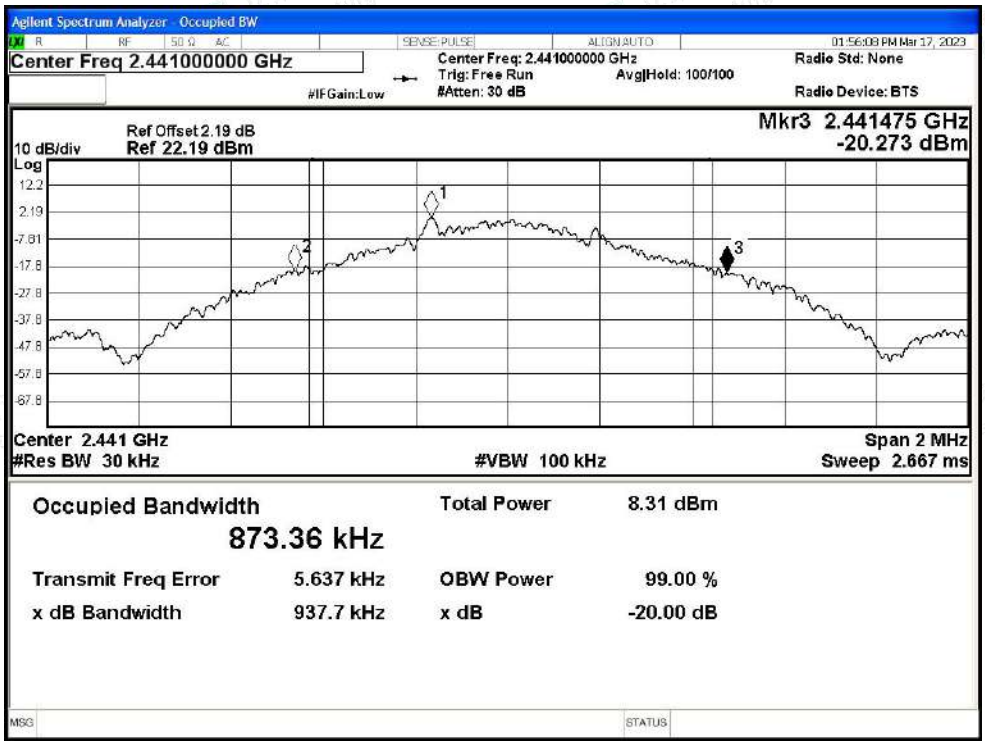
A.1 -20dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	0.929	N/A	Pass
NVNT	1-DH5	2441	Ant1	0.938	N/A	Pass
NVNT	1-DH5	2480	Ant1	0.836	N/A	Pass
NVNT	2-DH5	2402	Ant1	1.317	N/A	Pass
NVNT	2-DH5	2441	Ant1	1.284	N/A	Pass
NVNT	2-DH5	2480	Ant1	1.277	N/A	Pass
NVNT	3-DH5	2402	Ant1	1.266	N/A	Pass
NVNT	3-DH5	2441	Ant1	1.296	N/A	Pass
NVNT	3-DH5	2480	Ant1	1.3	N/A	Pass

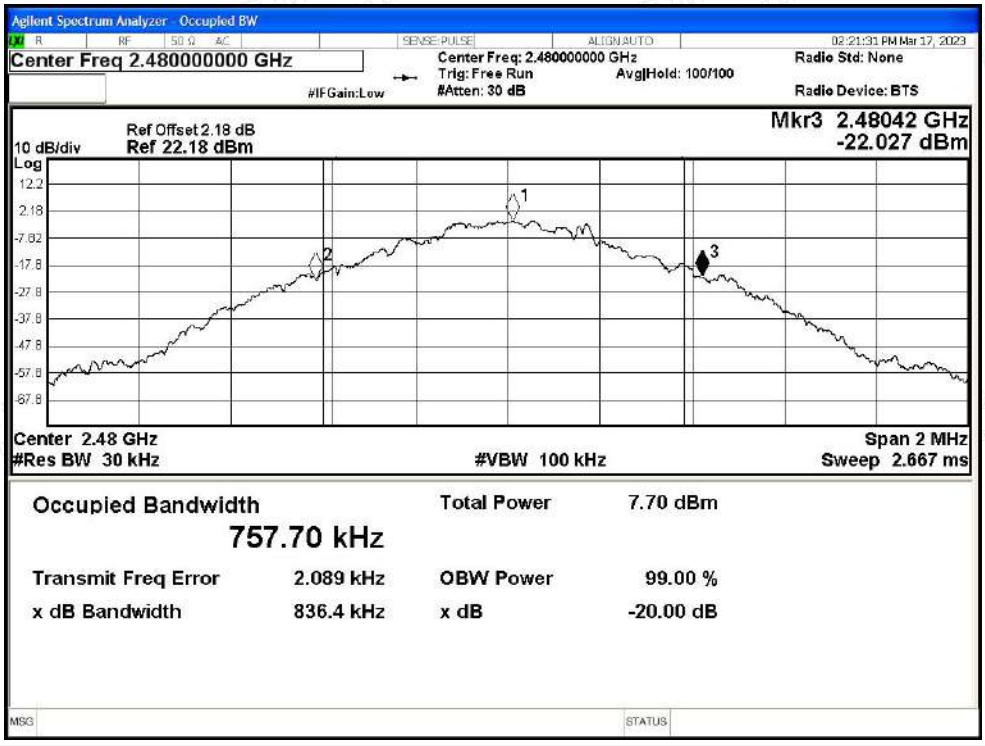
Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1

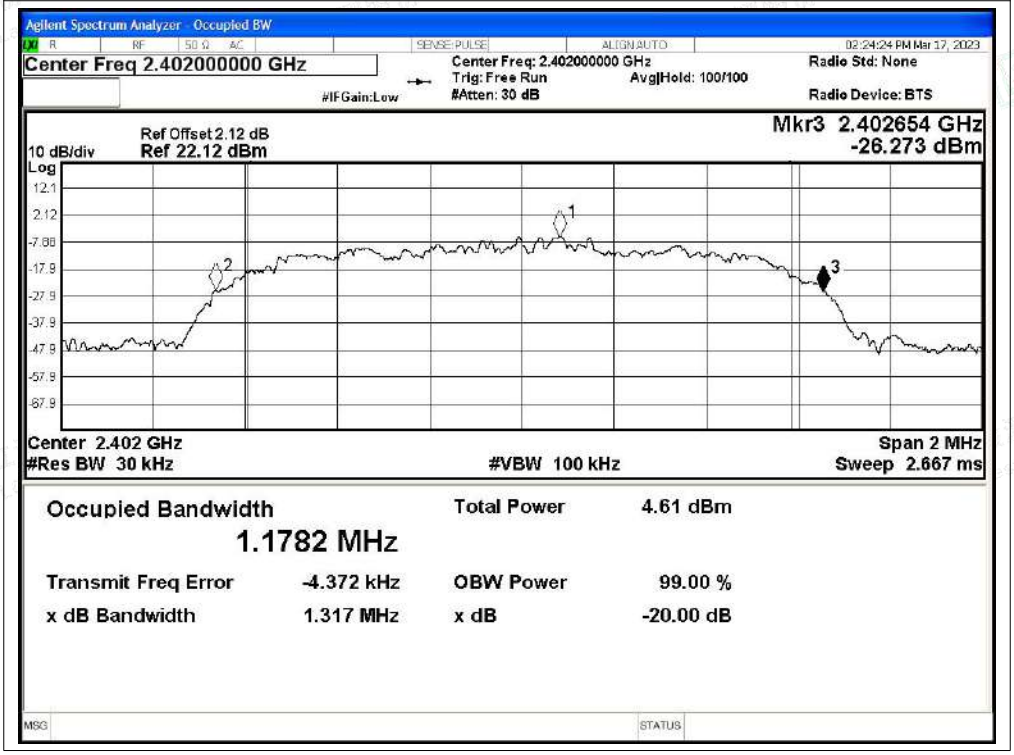
-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1



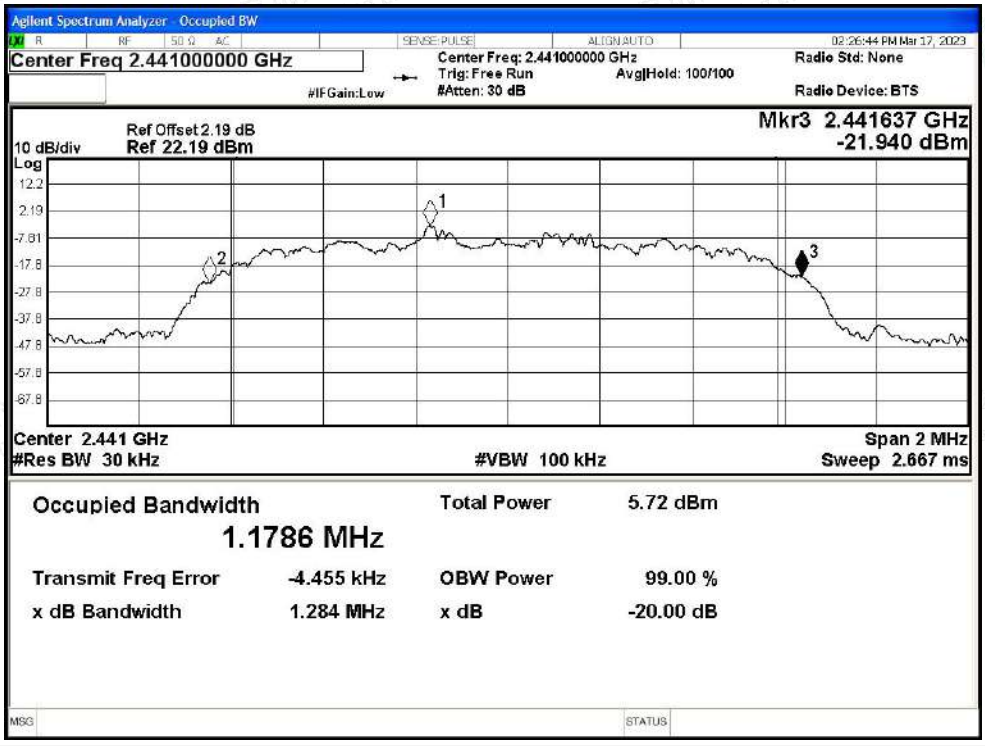
-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1



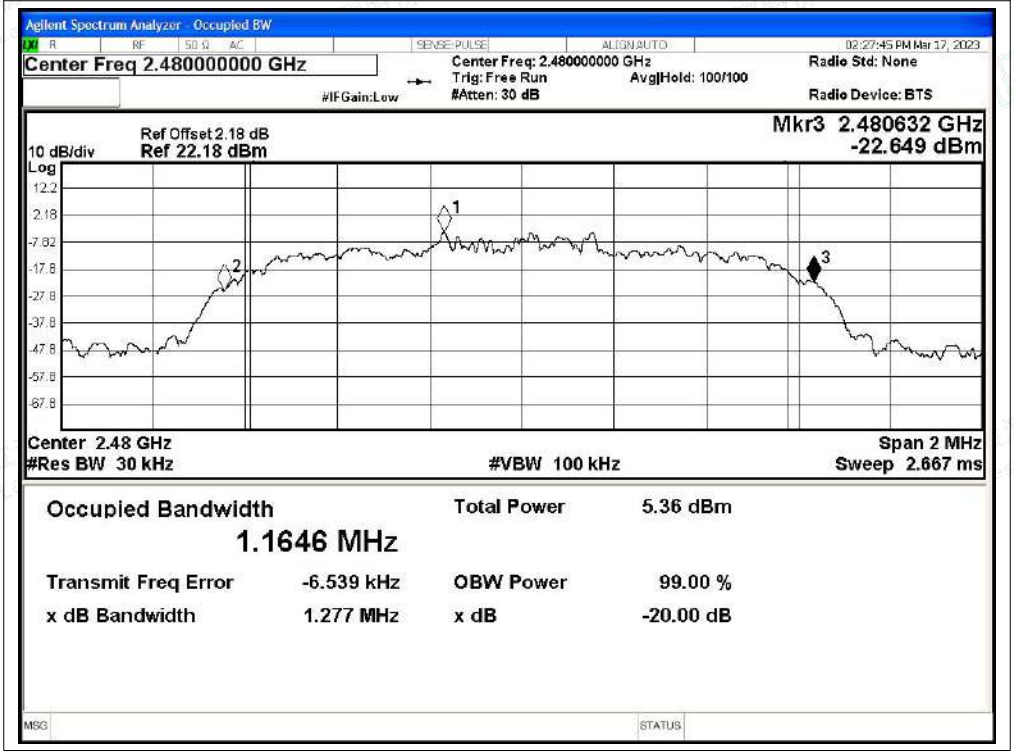
-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1



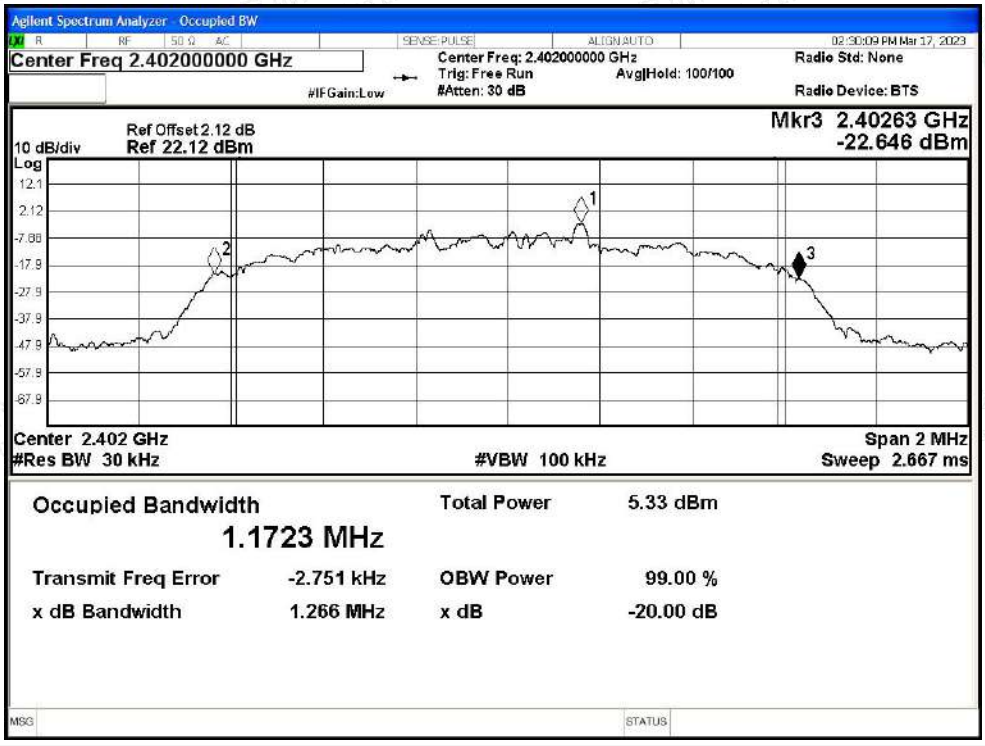
-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1



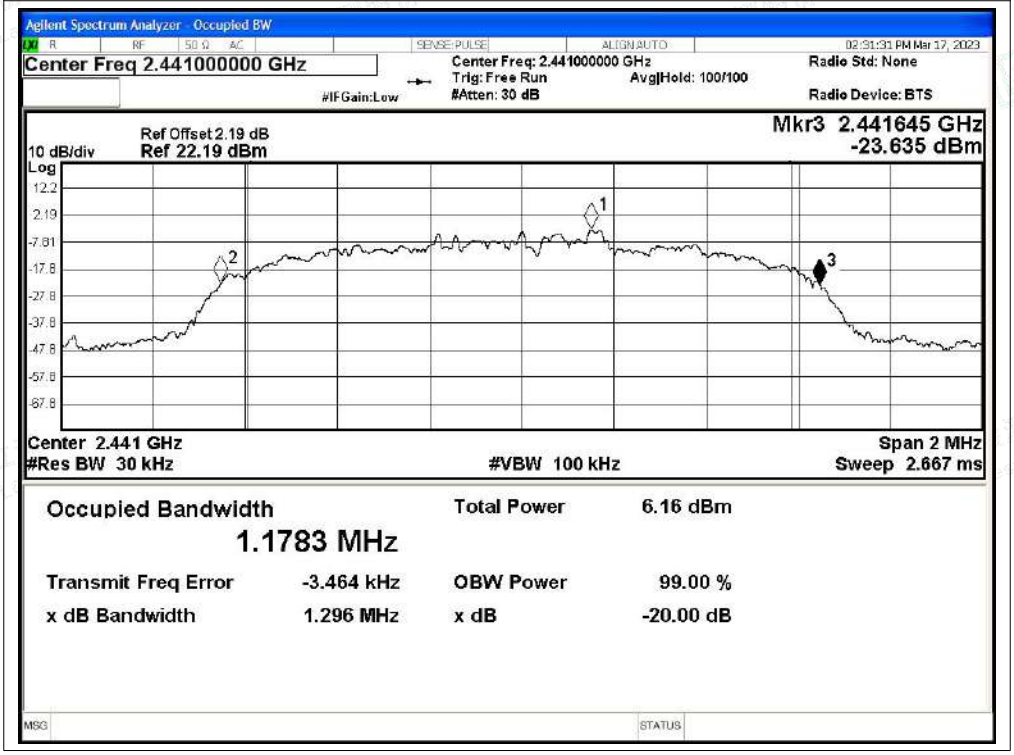
-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1



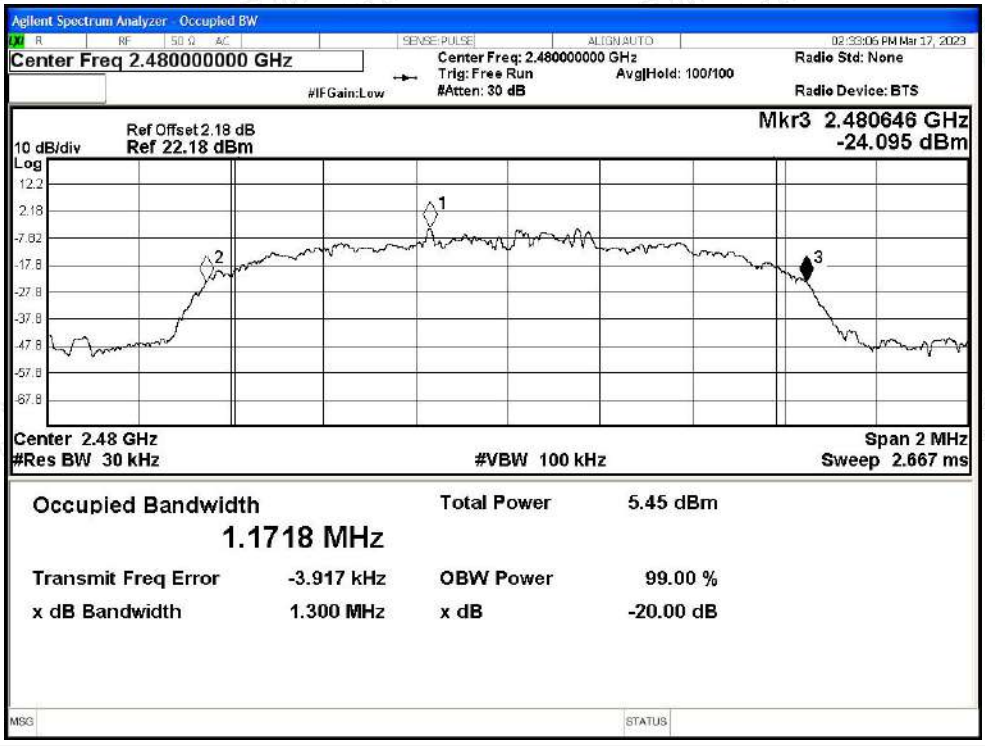
-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2480MHz Ant1

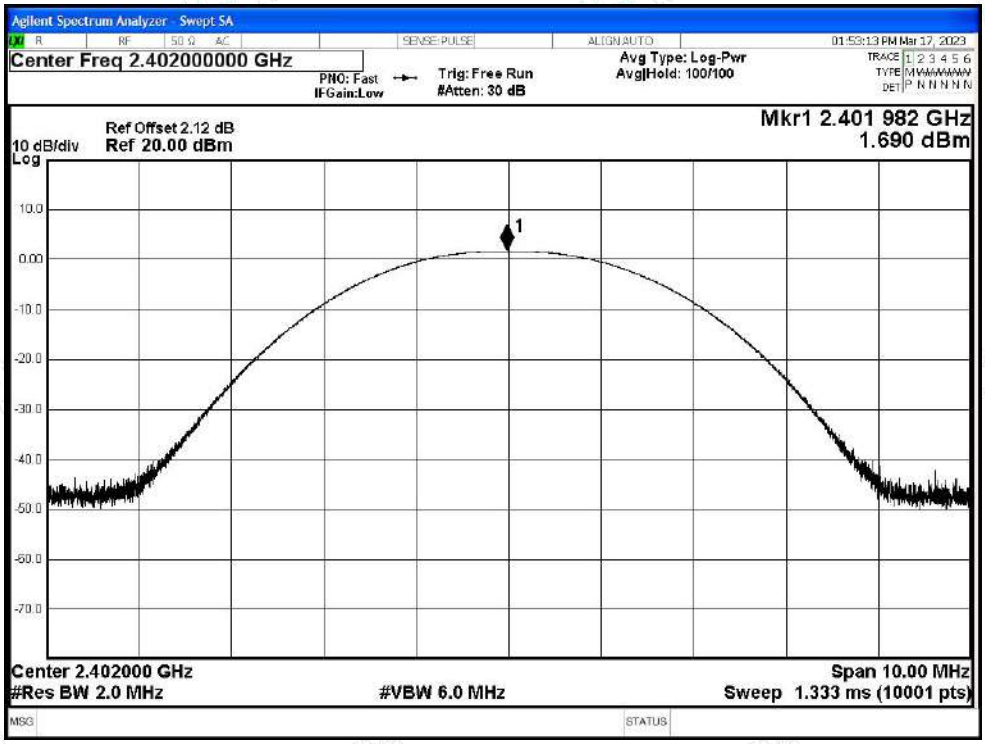


A.2 Maximum Conducted Output Power

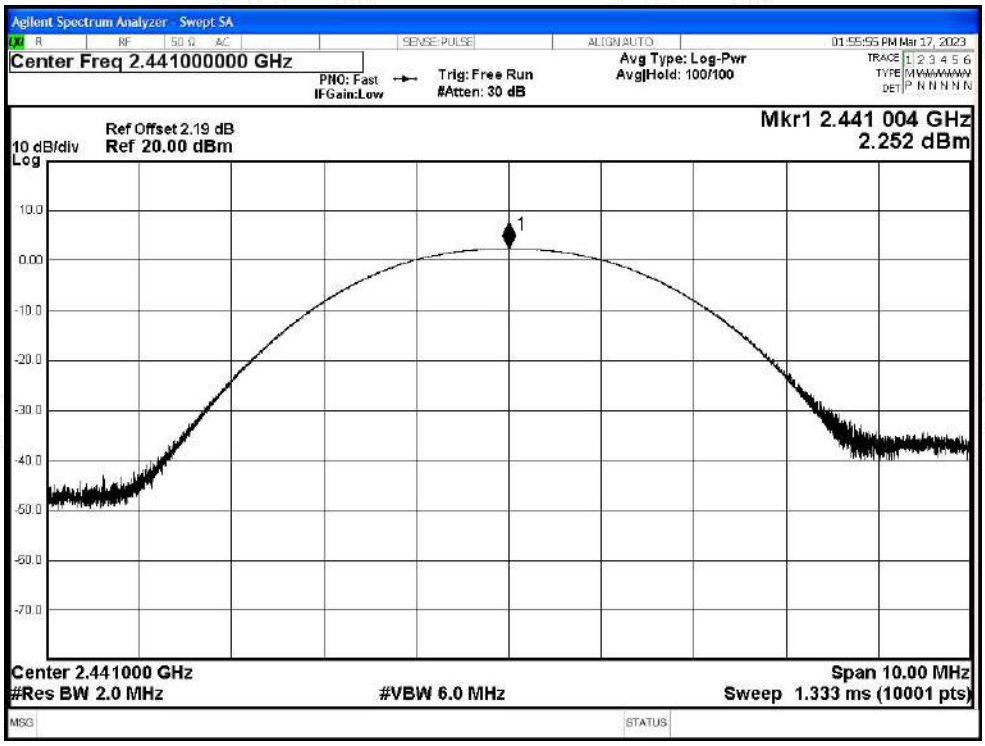
Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	1.69	21	Pass
NVNT	1-DH5	2441	Ant1	2.25	21	Pass
NVNT	1-DH5	2480	Ant1	1.64	21	Pass
NVNT	2-DH5	2402	Ant1	0.20	21	Pass
NVNT	2-DH5	2441	Ant1	1.31	21	Pass
NVNT	2-DH5	2480	Ant1	0.52	21	Pass
NVNT	3-DH5	2402	Ant1	0.22	21	Pass
NVNT	3-DH5	2441	Ant1	1.31	21	Pass
NVNT	3-DH5	2480	Ant1	0.48	21	Pass

Test Graphs

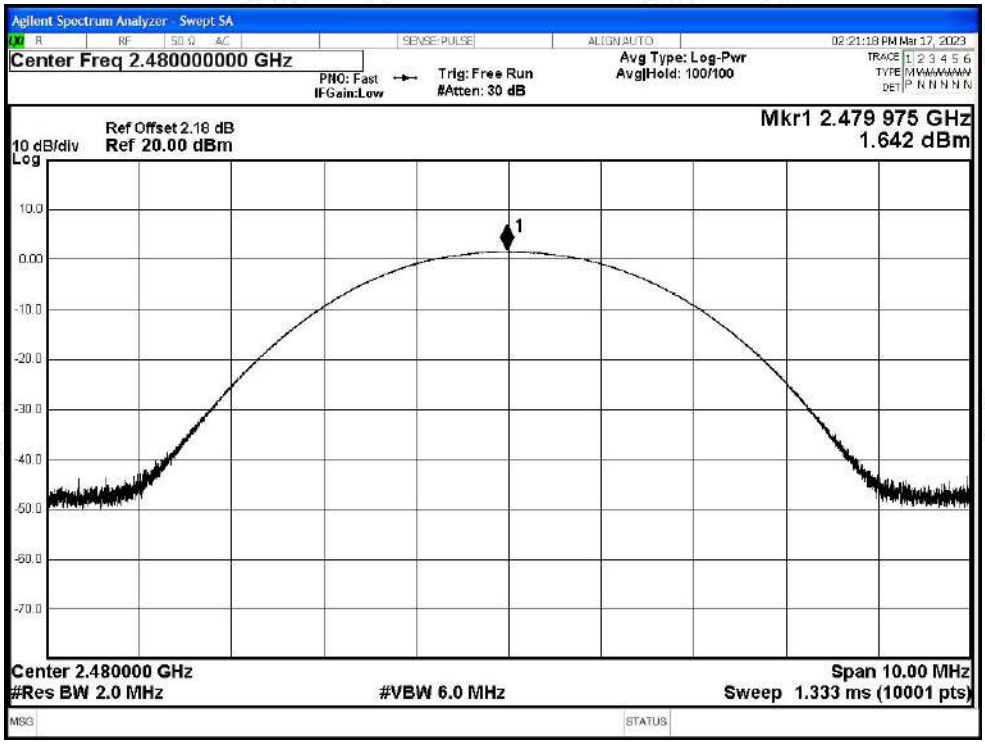
Power NVNT 1-DH5 2402MHz Ant1



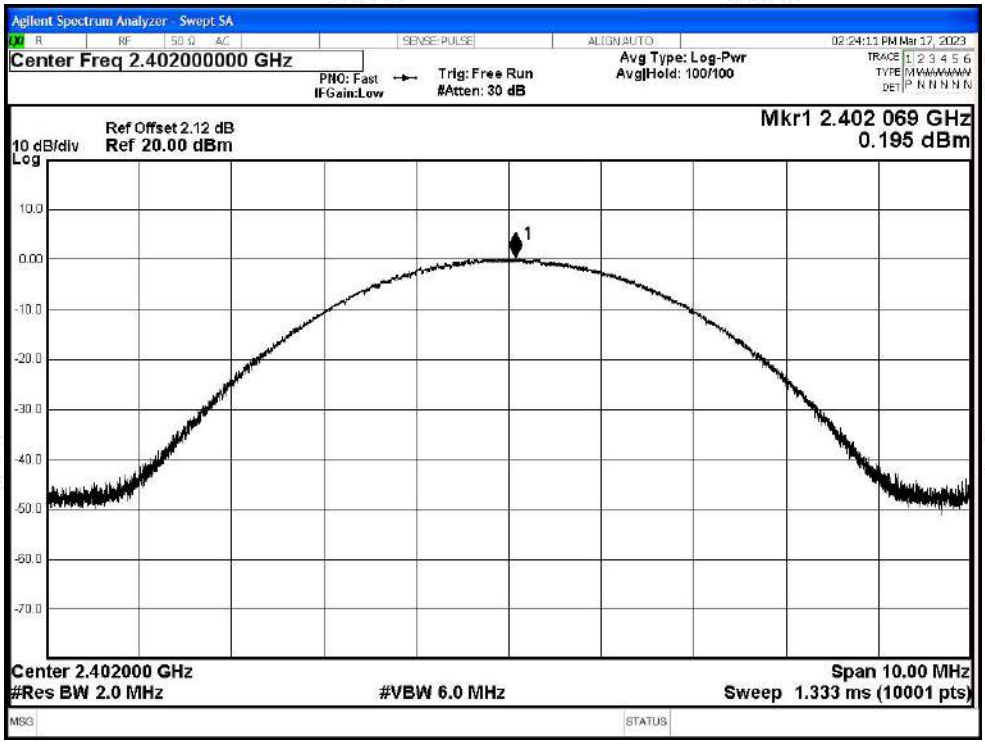
Power NVNT 1-DH5 2441MHz Ant1



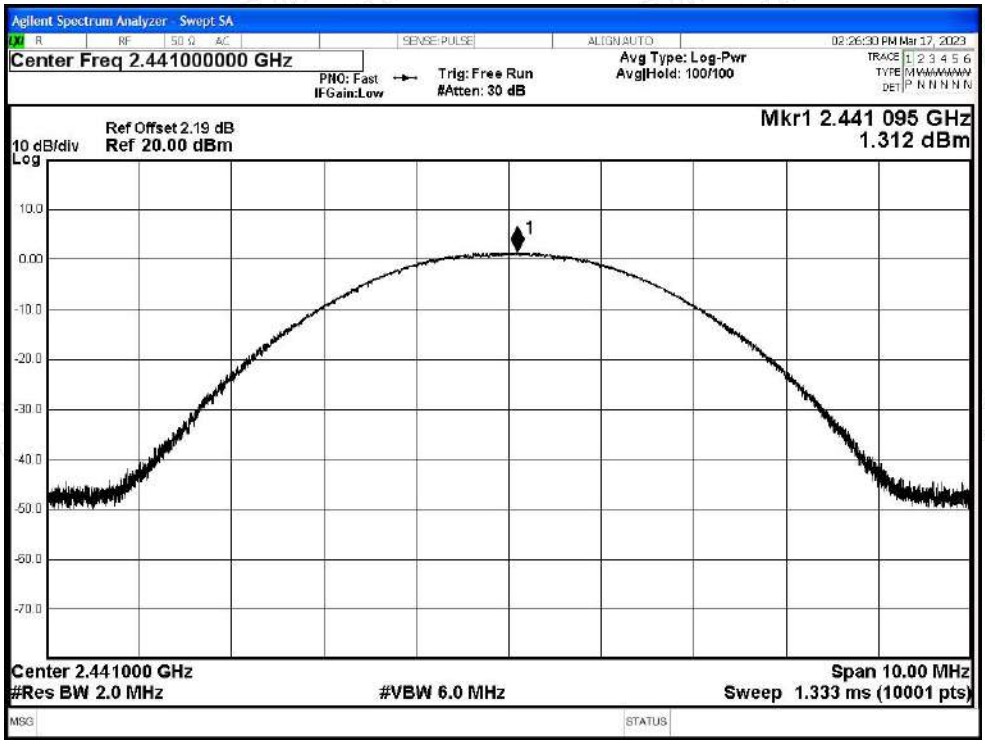
Power NVNT 1-DH5 2480MHz Ant1



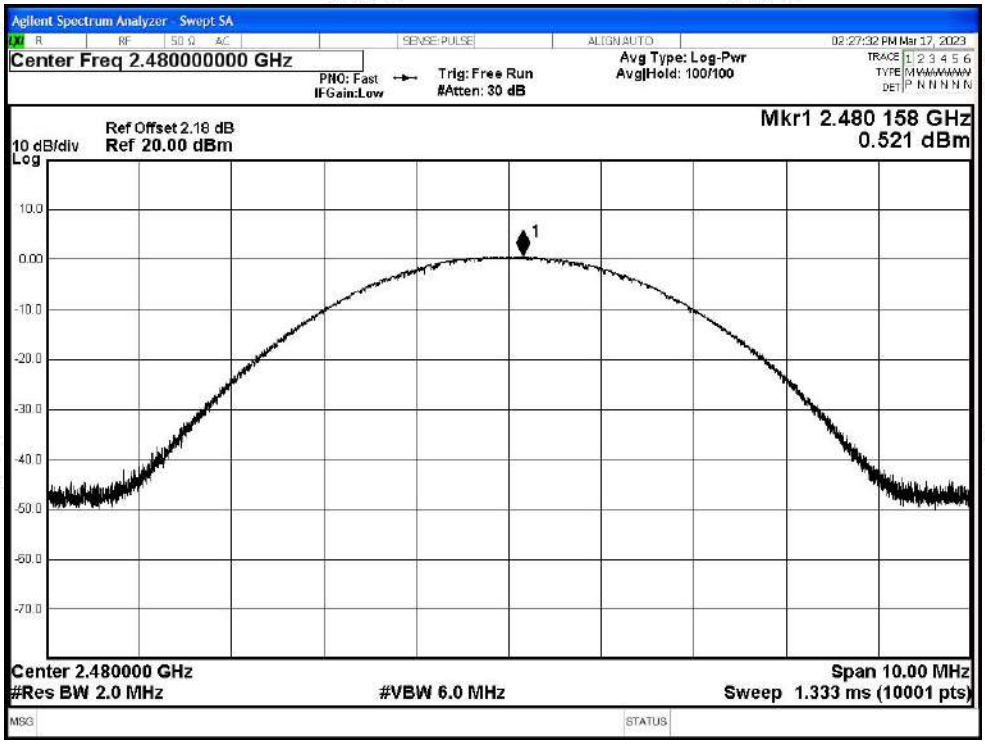
Power NVNT 2-DH5 2402MHz Ant1



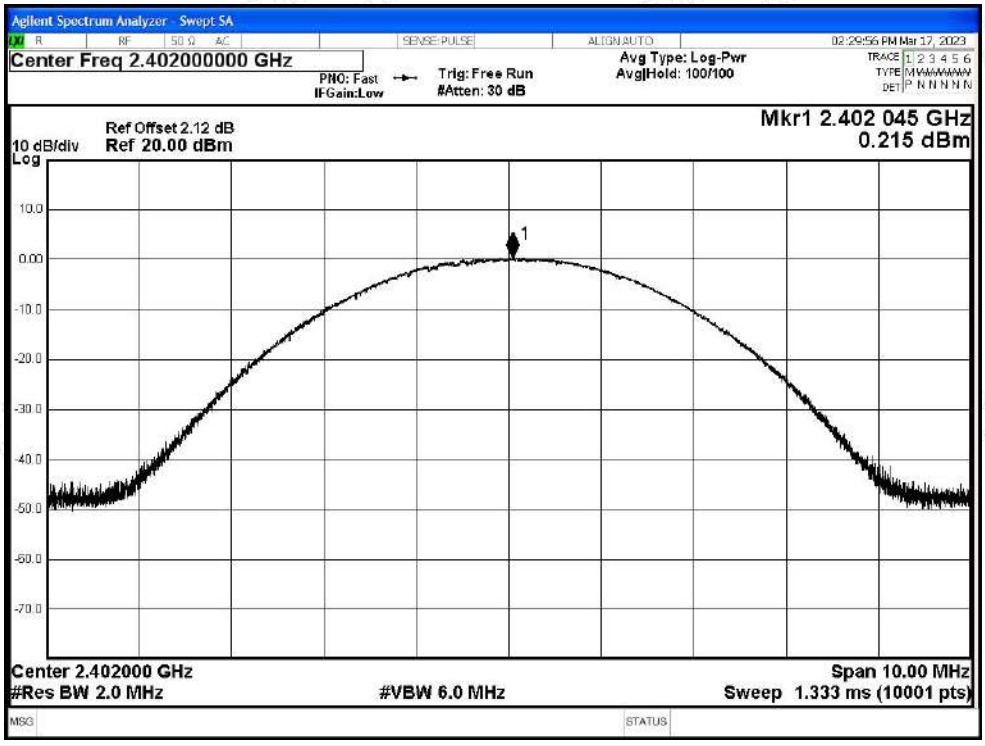
Power NVNT 2-DH5 2441MHz Ant1



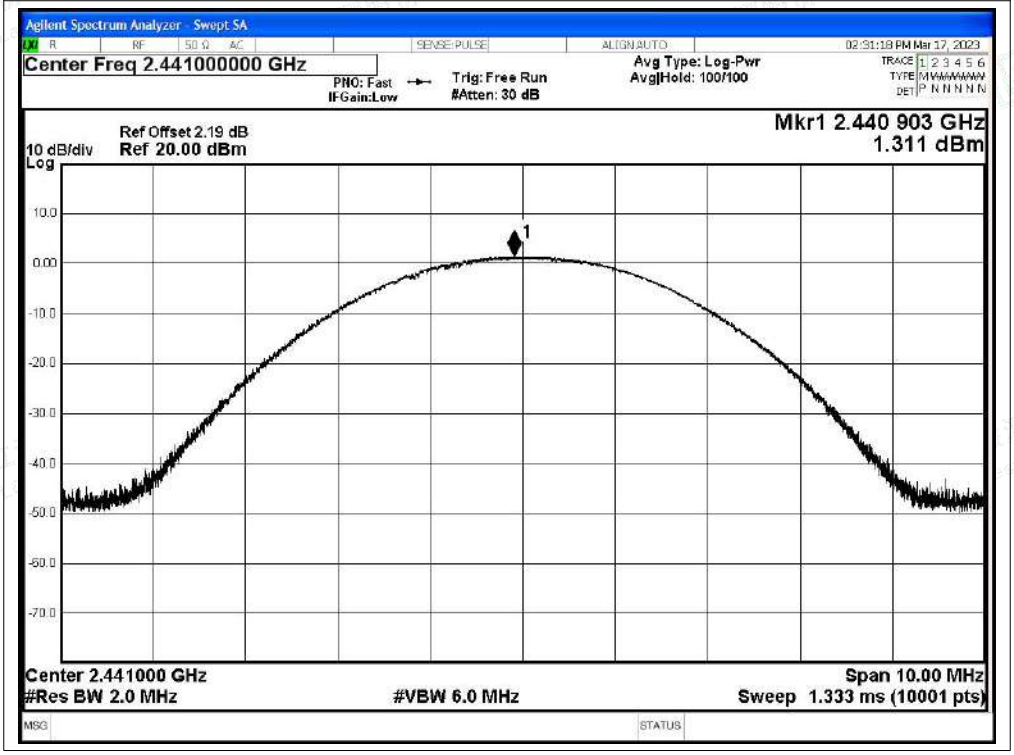
Power NVNT 2-DH5 2480MHz Ant1



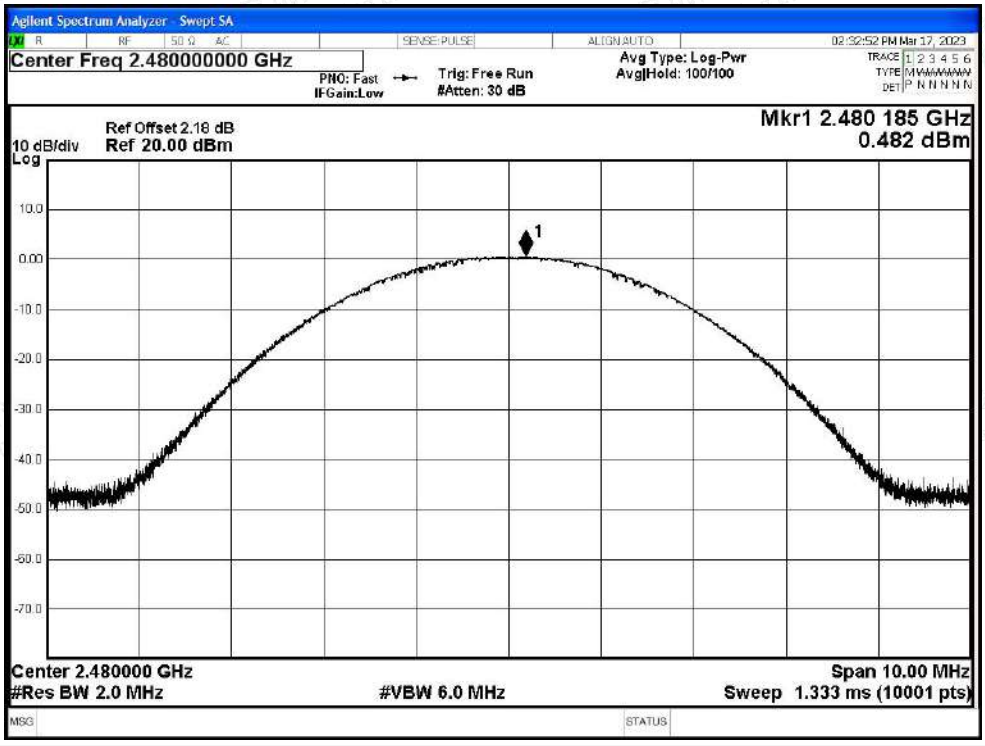
Power NVNT 3-DH5 2402MHz Ant1



Power NVNT 3-DH5 2441MHz Ant1



Power NVNT 3-DH5 2480MHz Ant1

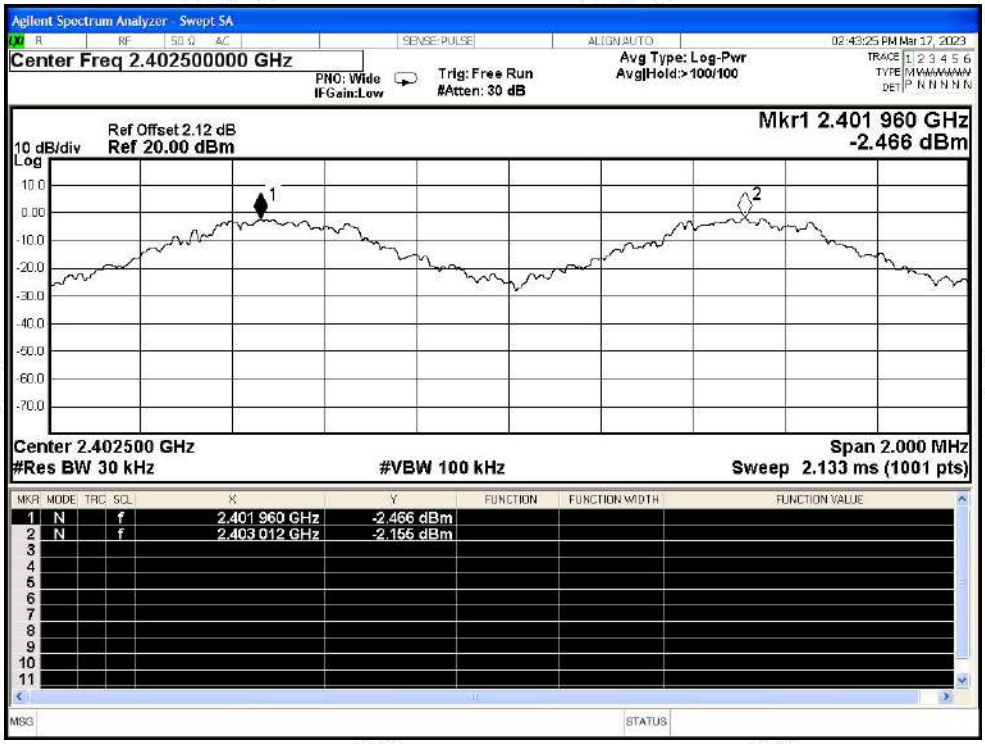


A.3 Carrier Frequencies Separation

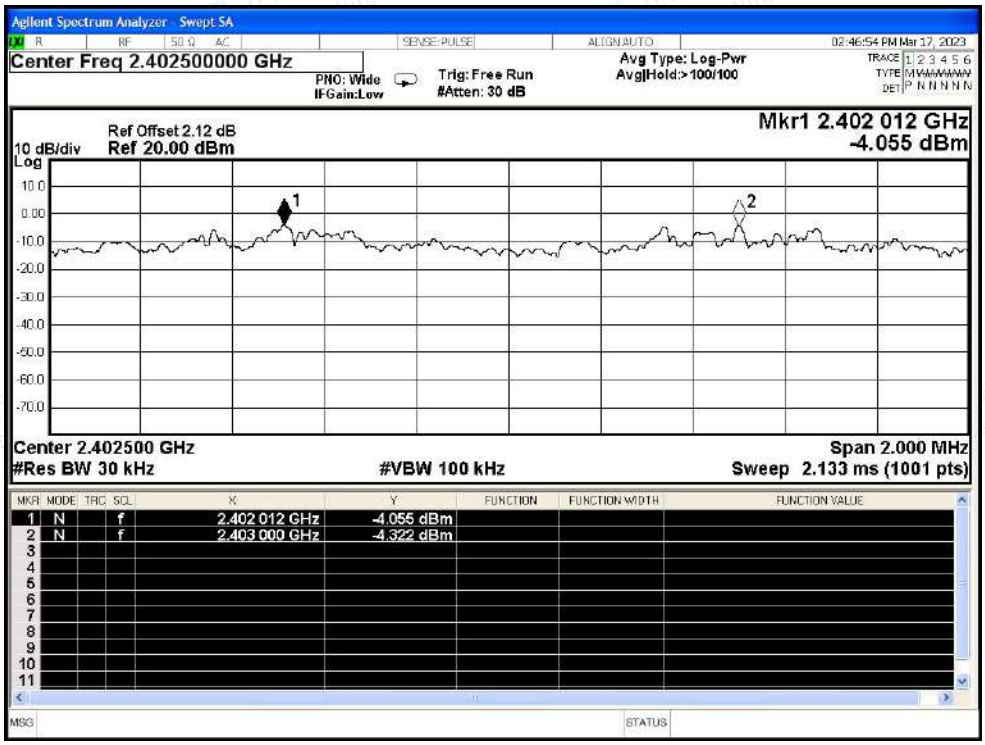
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2401.96	2403.012	1.052	0.619	Pass
NVNT	2-DH5	Ant1	2402.012	2403	0.988	0.878	Pass
NVNT	3-DH5	Ant1	2401.896	2403.162	1.266	0.844	Pass

Test Graphs

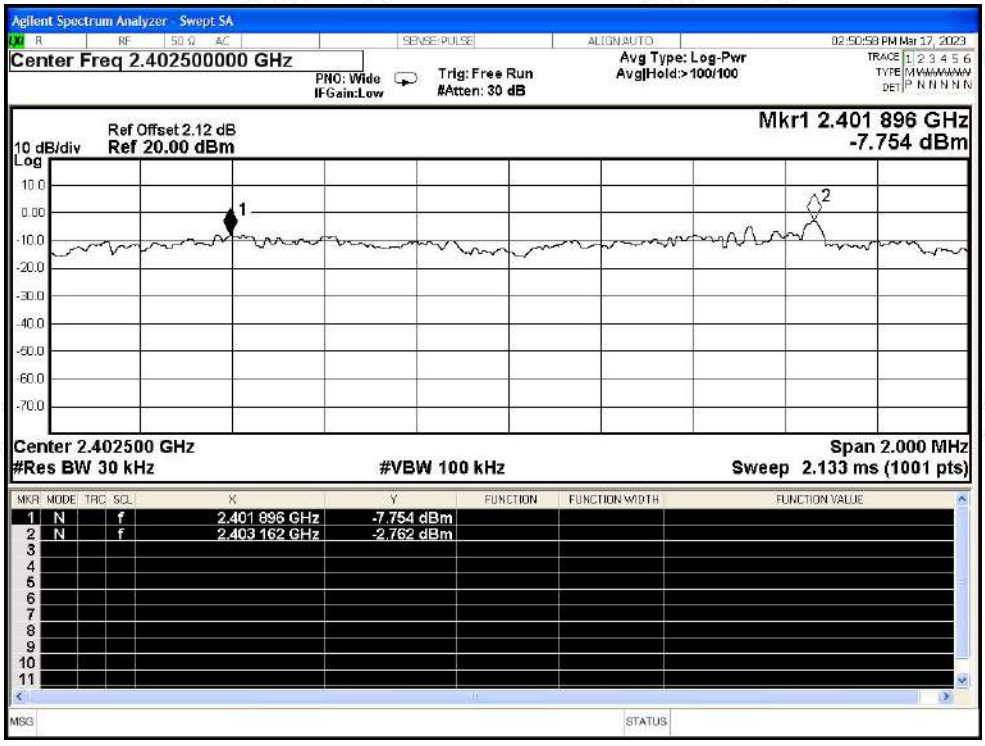
CFS NVNT 1-DH5 2402MHz Ant1



CFS NVNT 2-DH5 2402MHz Ant1



CFS NVNT 3-DH5 2402MHz Ant1

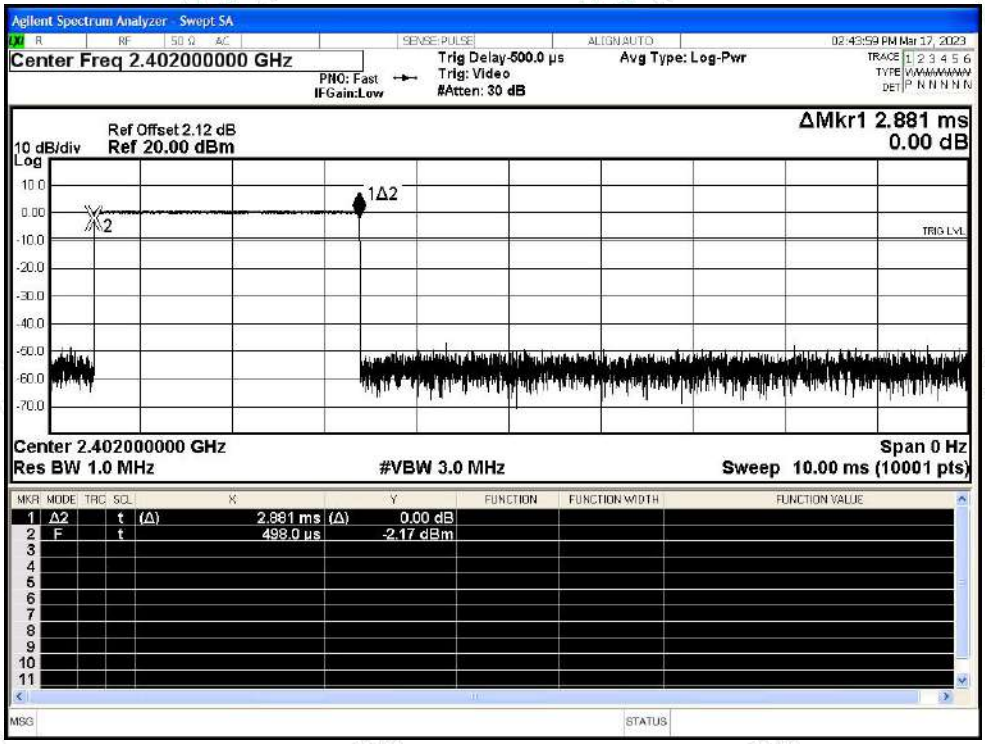


A.4 Dwell Time

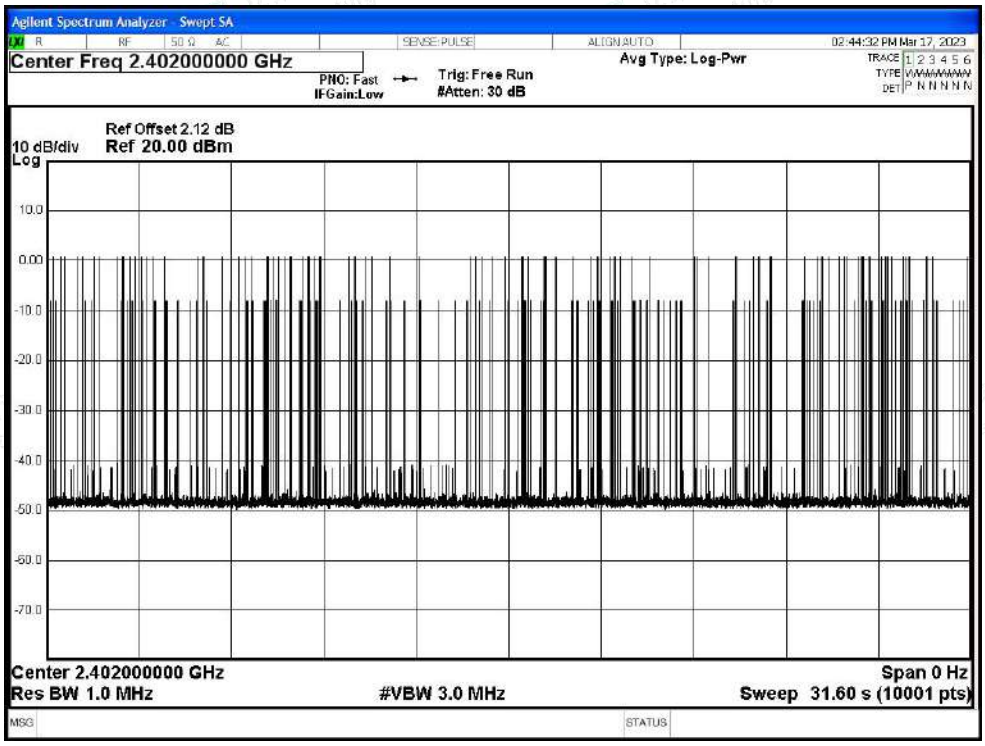
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH5	2402	Ant1	2.881	282.338	98	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.88	339.84	118	31600	400	Pass
NVNT	3-DH5	2402	Ant1	2.887	294.474	102	31600	400	Pass

Test Graphs

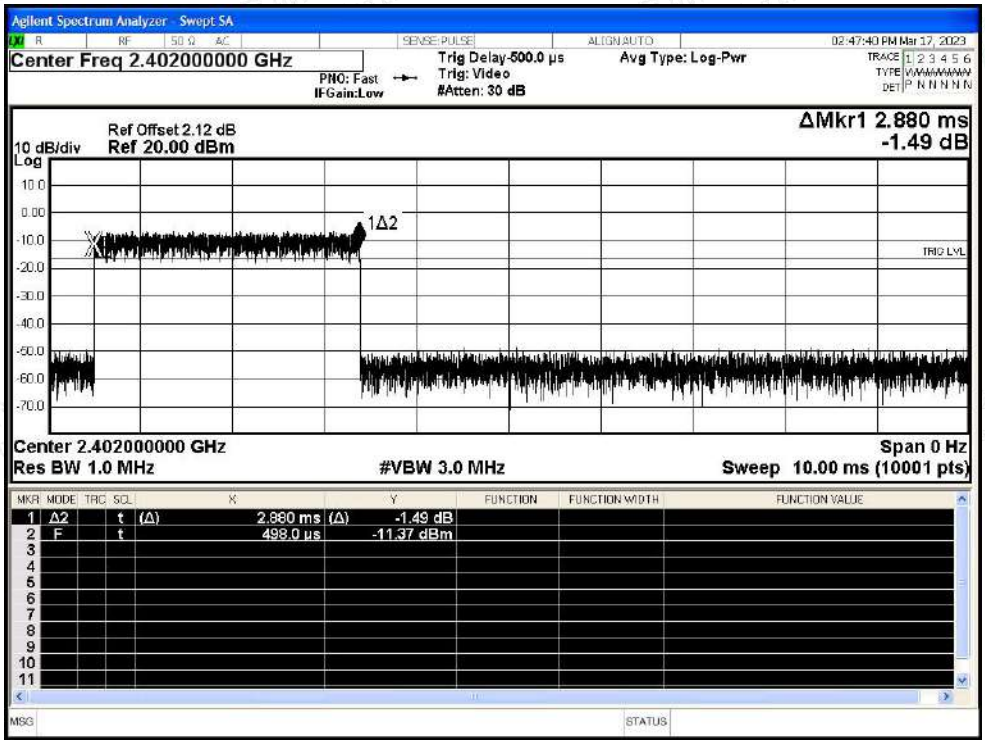
Dwell NVNT 1-DH5 2402MHz Ant1 One Burst



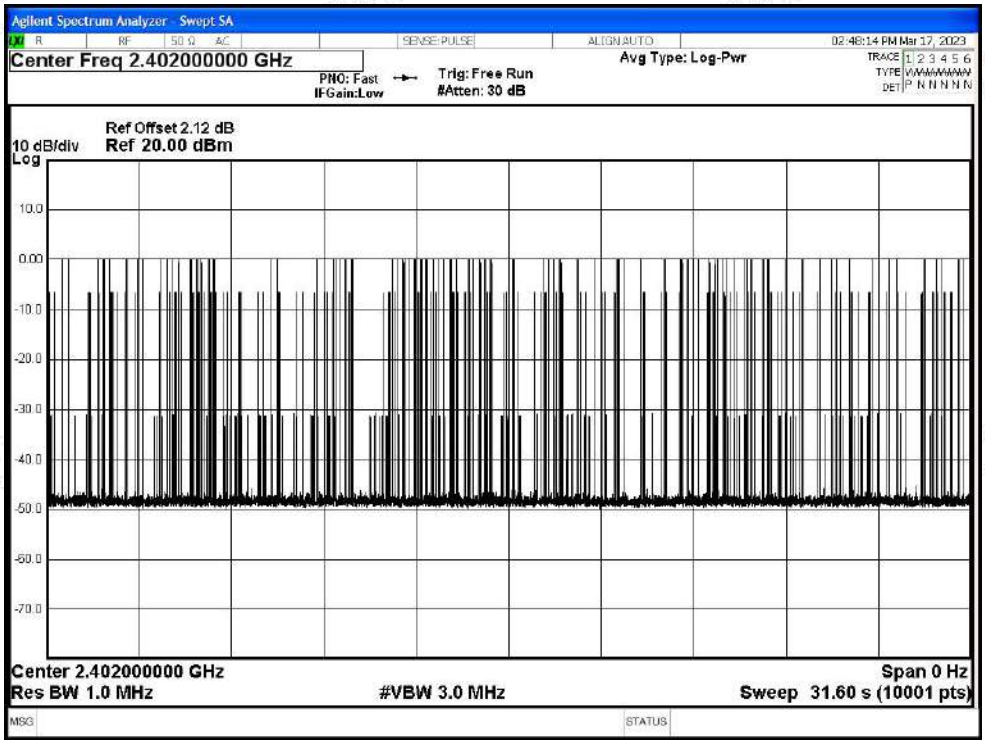
Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated



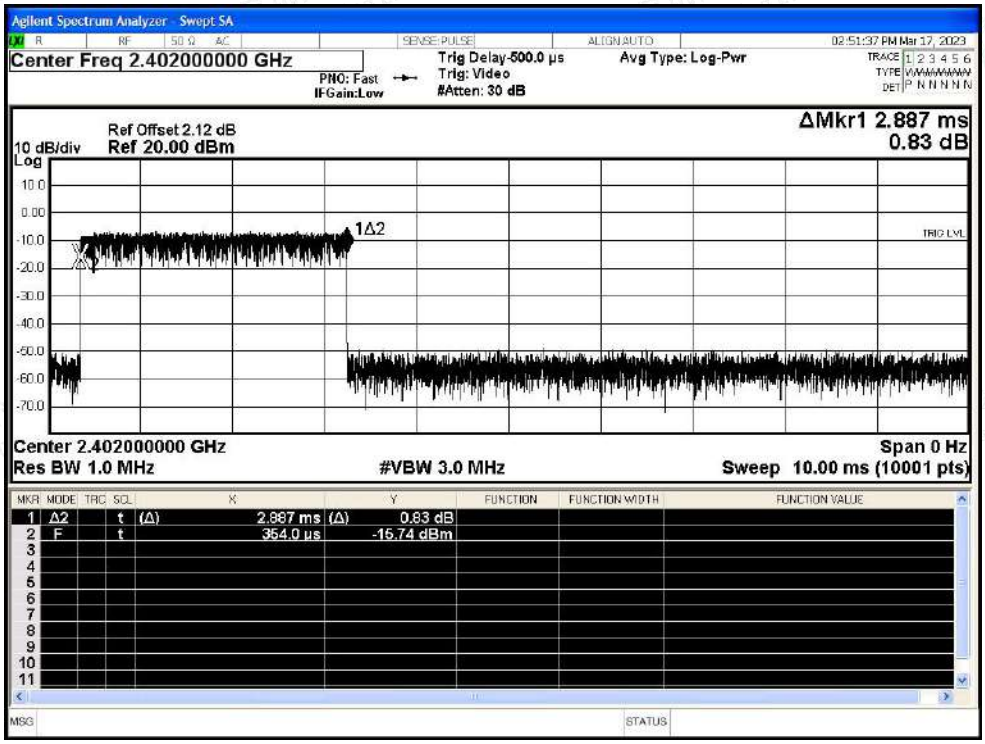
Dwell NVNT 2-DH5 2402MHz Ant1 One Burst



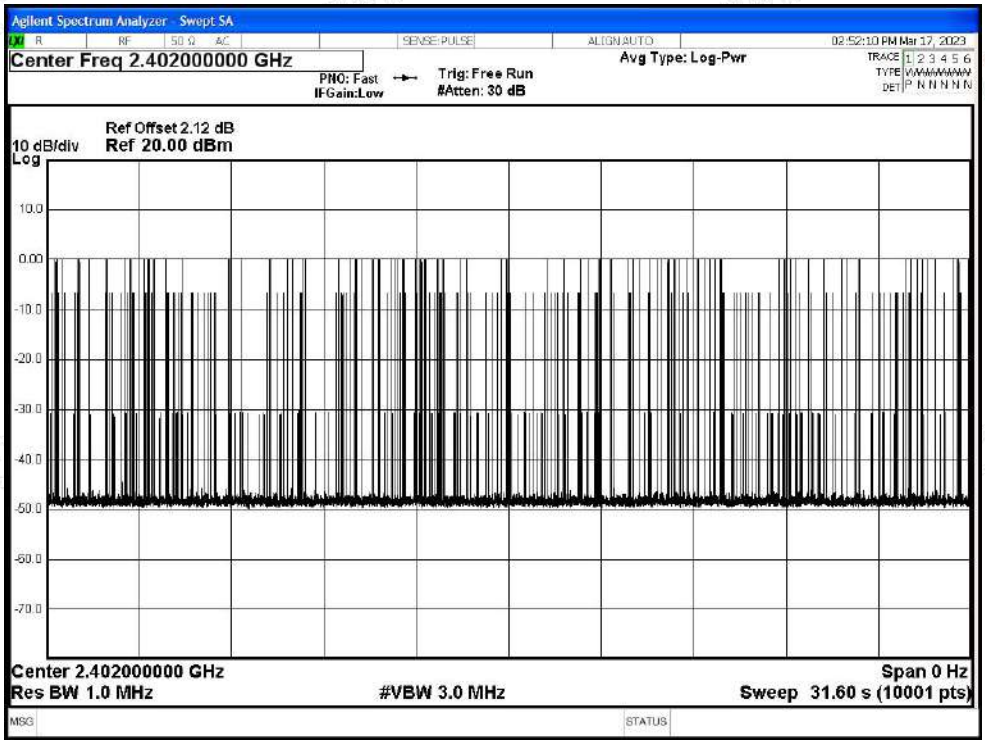
Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated



Dwell NVNT 3-DH5 2402MHz Ant1 One Burst



Dwell NVNT 3-DH5 2402MHz Ant1 Accumulated

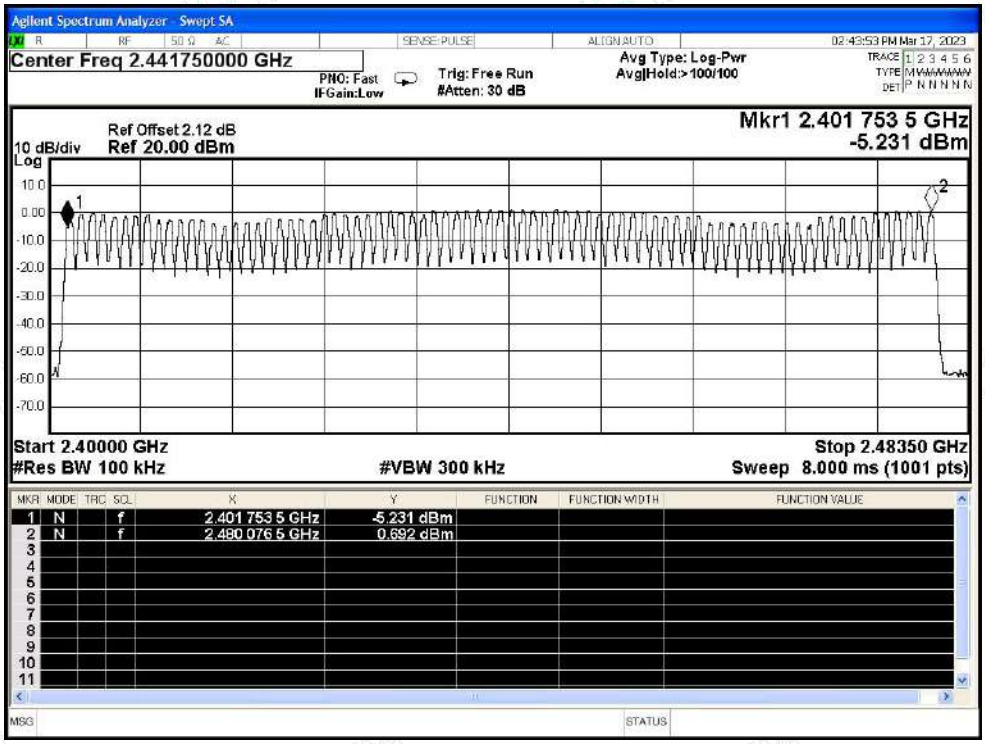


A.5 Number of Hopping Channel

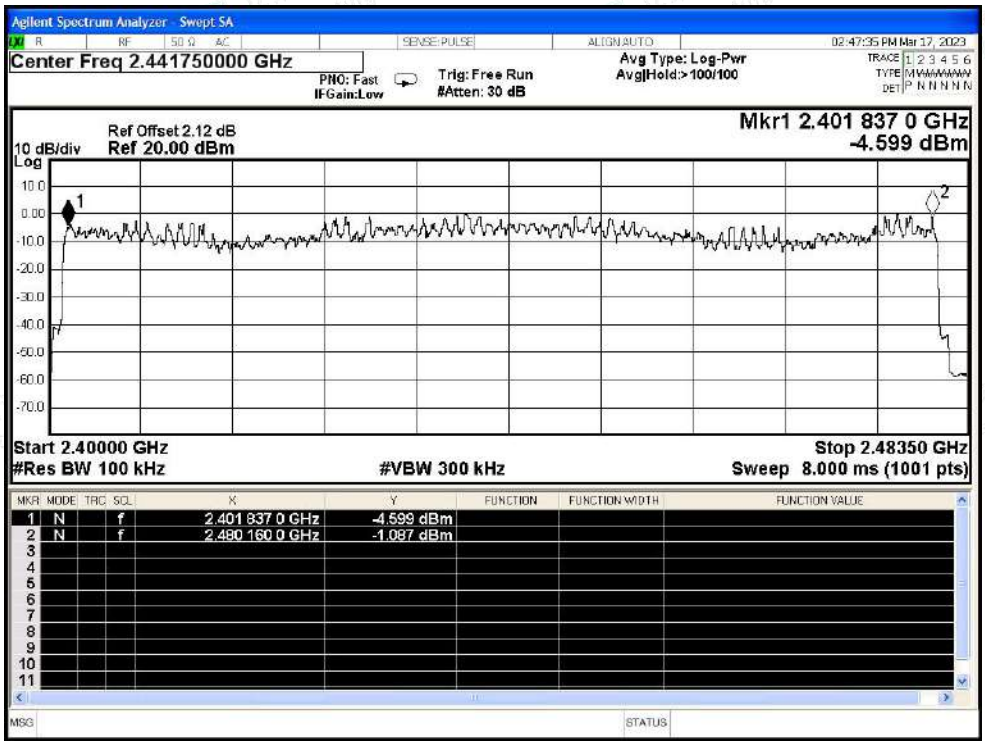
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH5	Ant1	79	15	Pass
NVNT	2-DH5	Ant1	79	15	Pass
NVNT	3-DH5	Ant1	79	15	Pass

Test Graphs

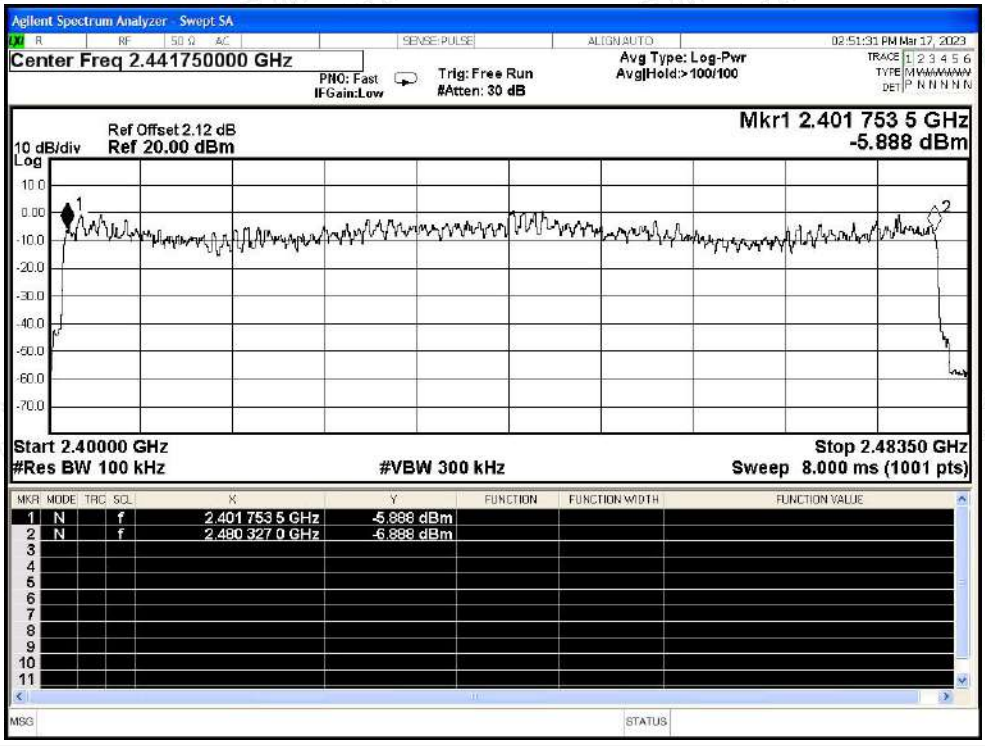
Hopping No. NVNT 1-DH5 2402MHz Ant1



Hopping No. NVNT 2-DH5 2402MHz Ant1



Hopping No. NVNT 3-DH5 2402MHz Ant1

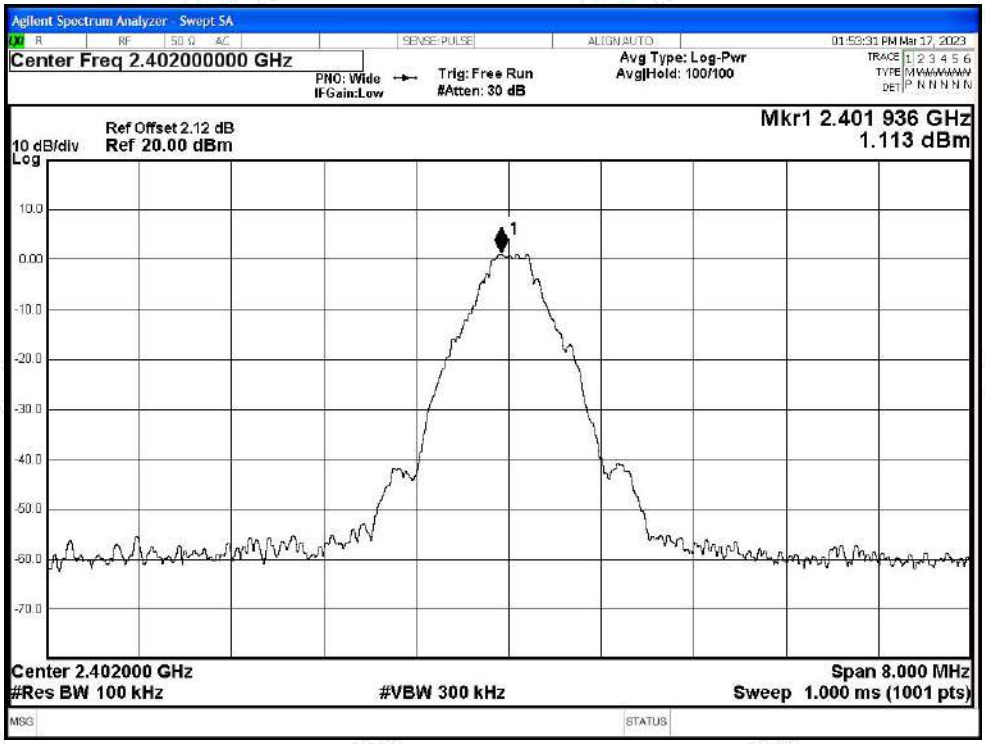


A.6 Band Edge

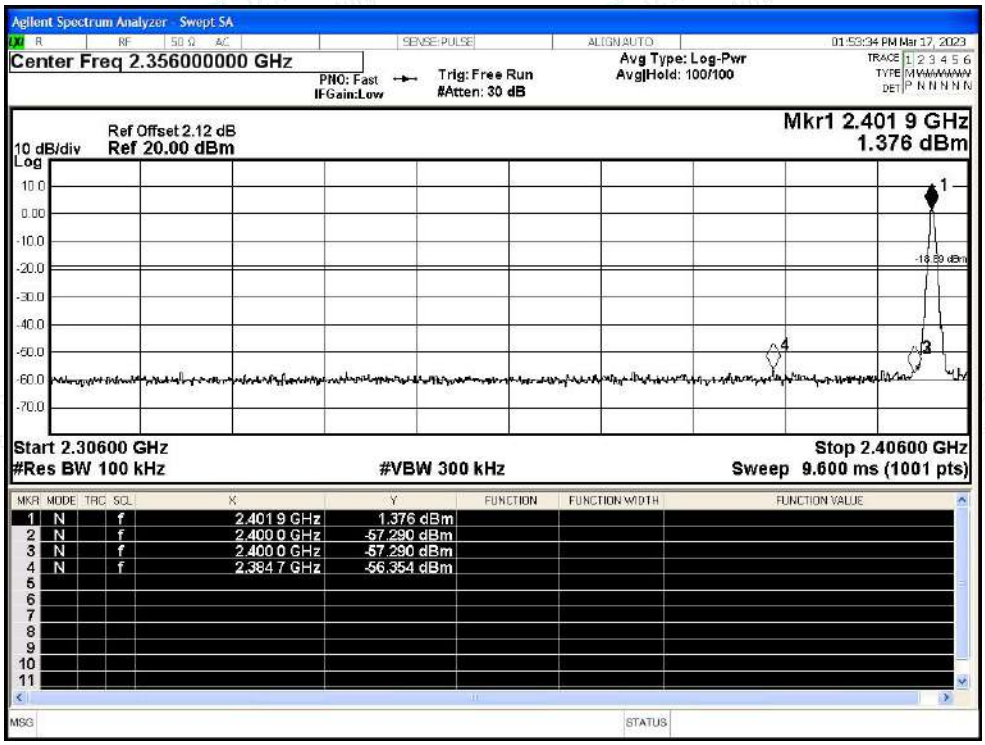
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-57.47	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-58.2	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-56.21	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-55.89	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-55.07	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-56.06	-20	Pass

Test Graphs

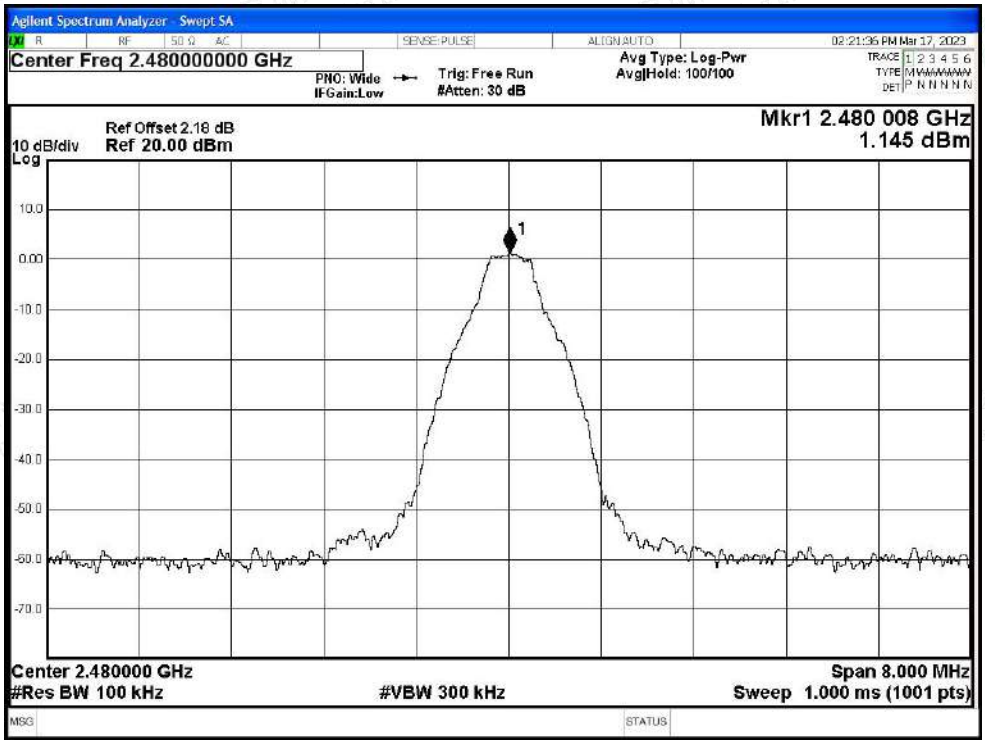
Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Ref



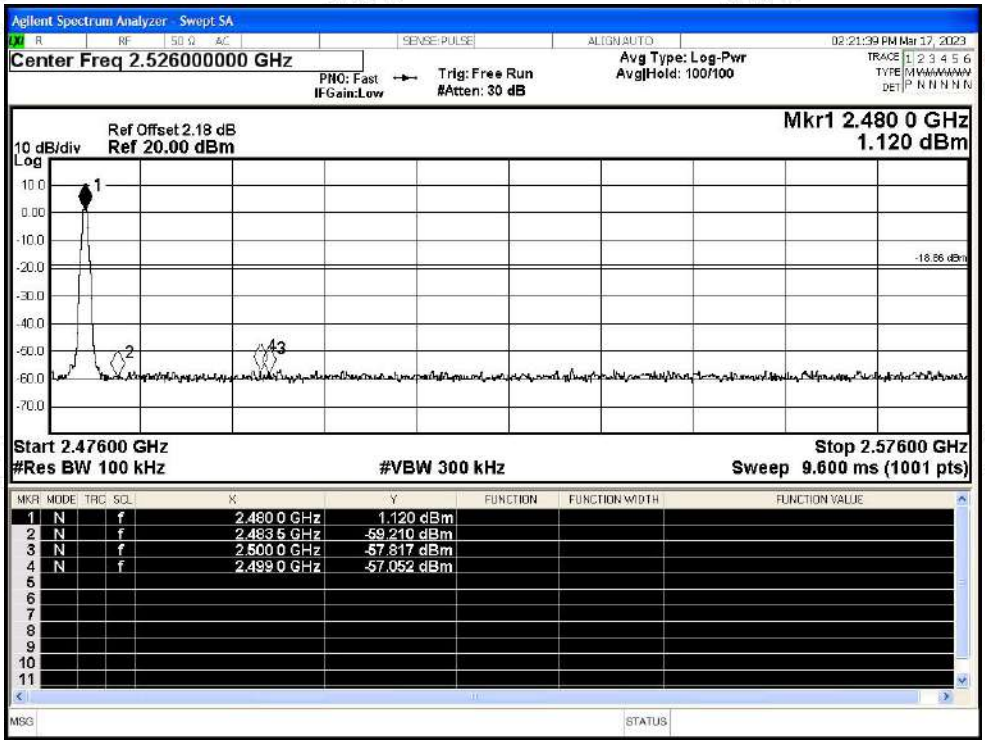
Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission



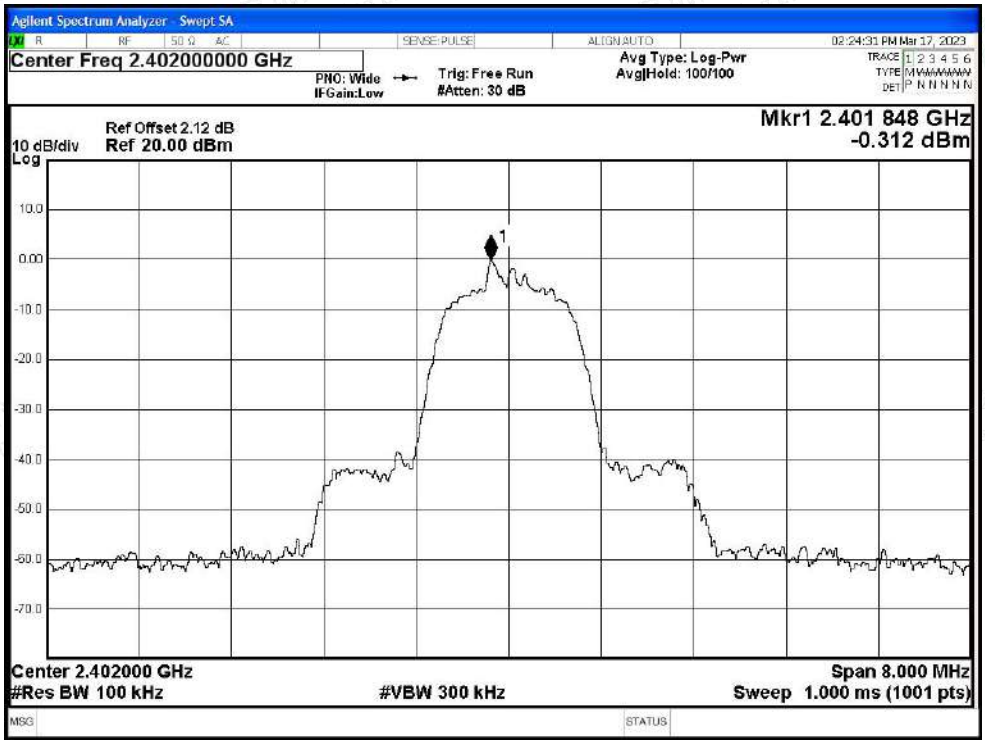
Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref



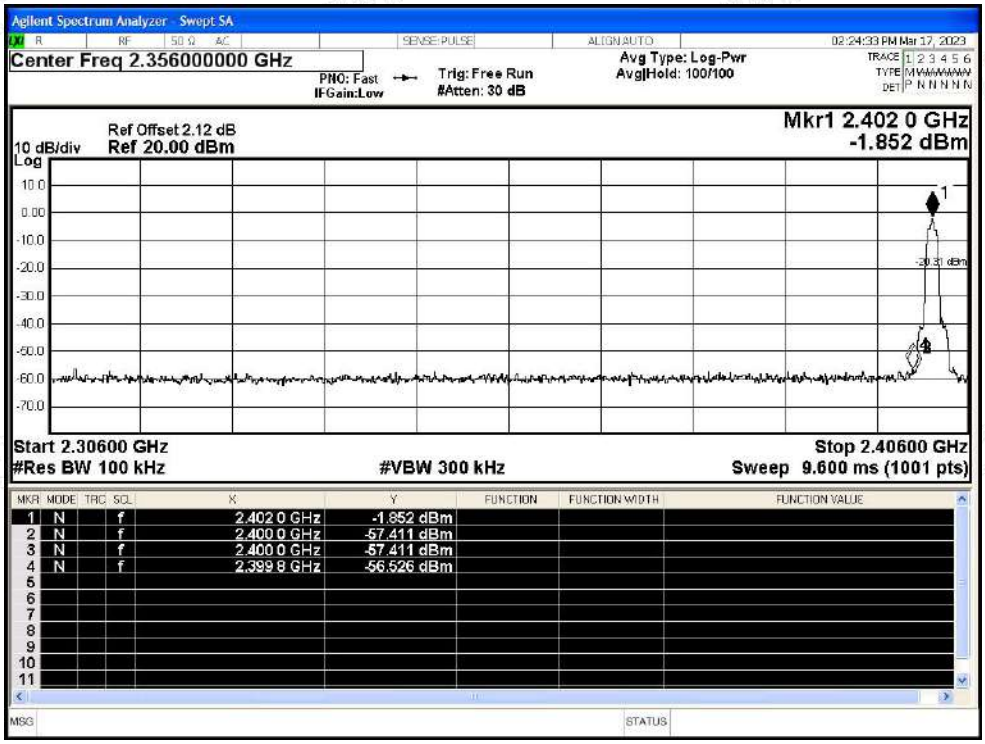
Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission



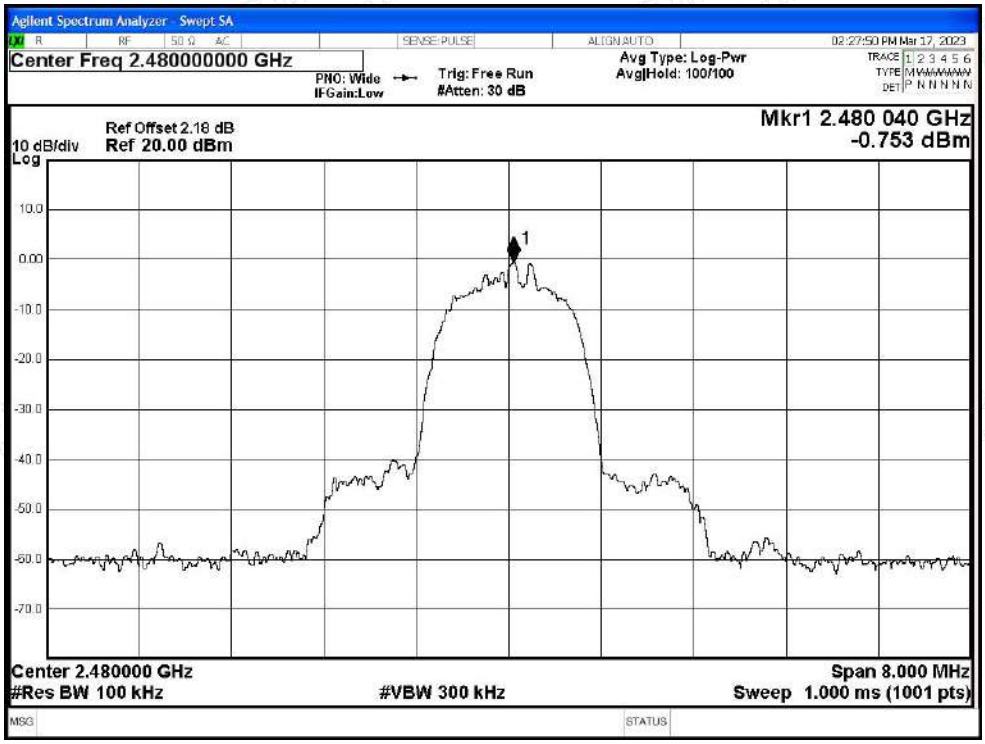
Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref



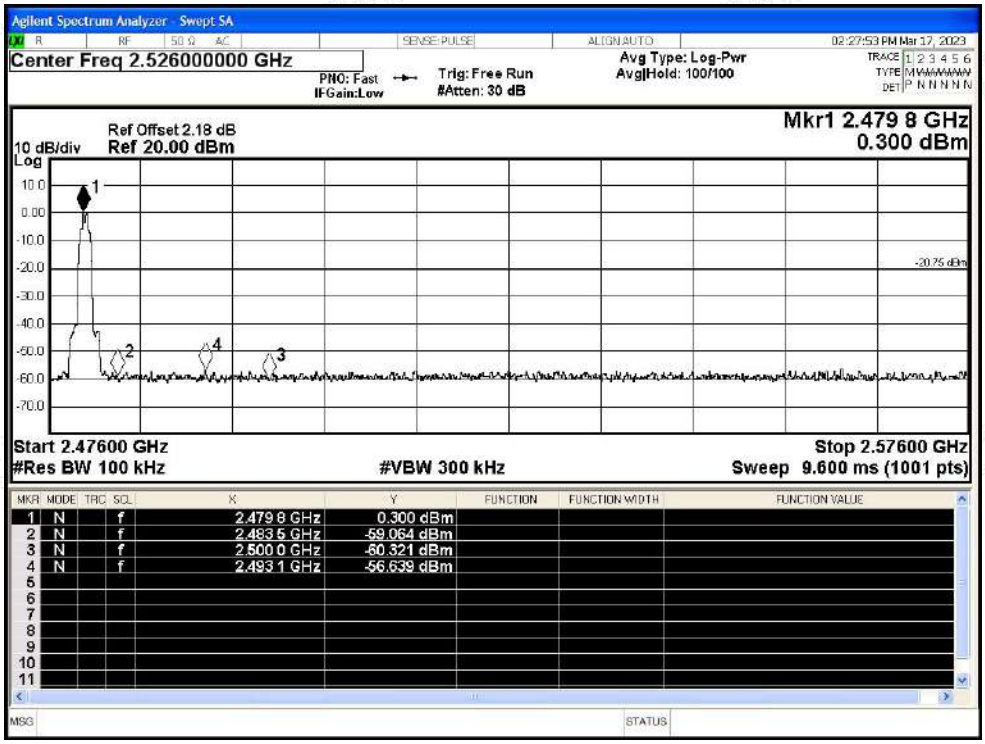
Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission



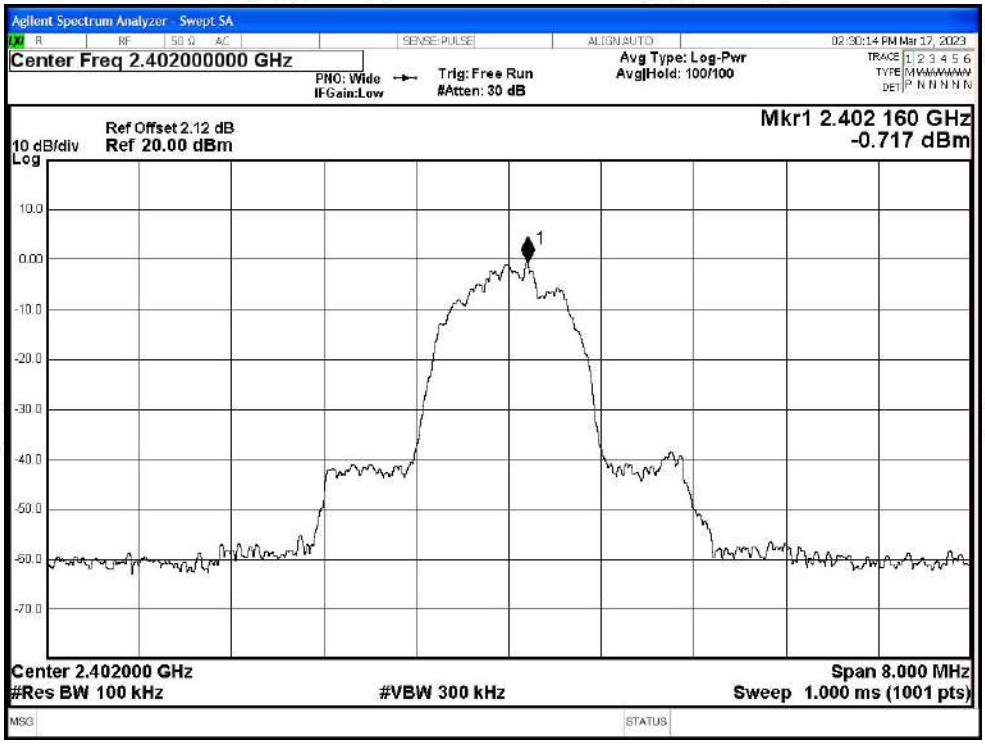
Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref



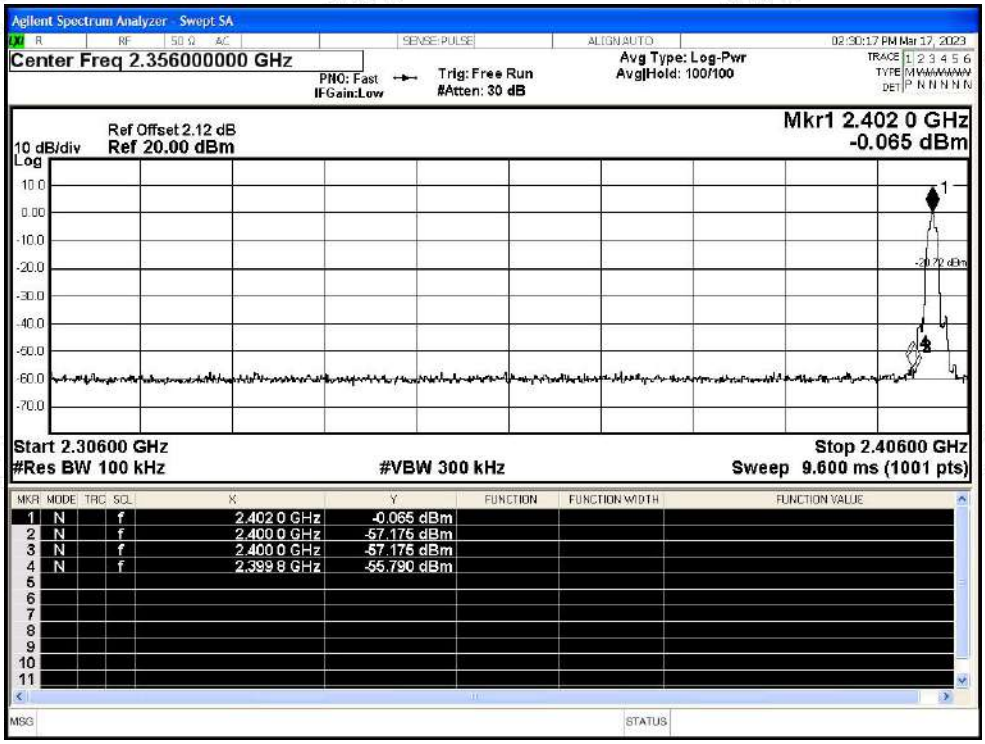
Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Emission



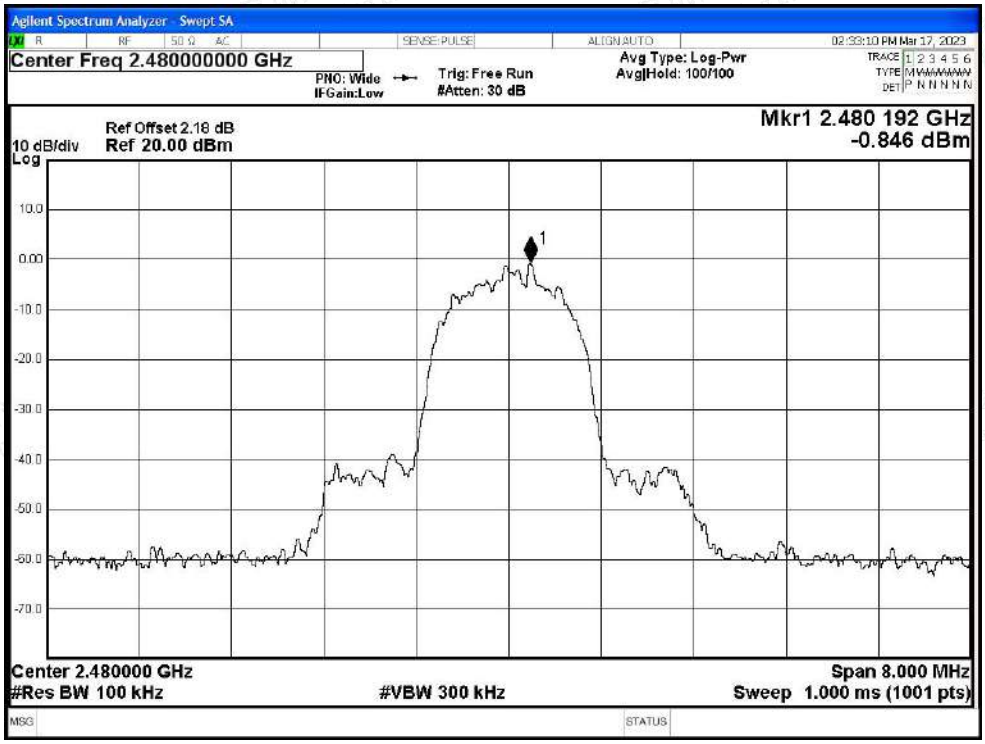
Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Ref



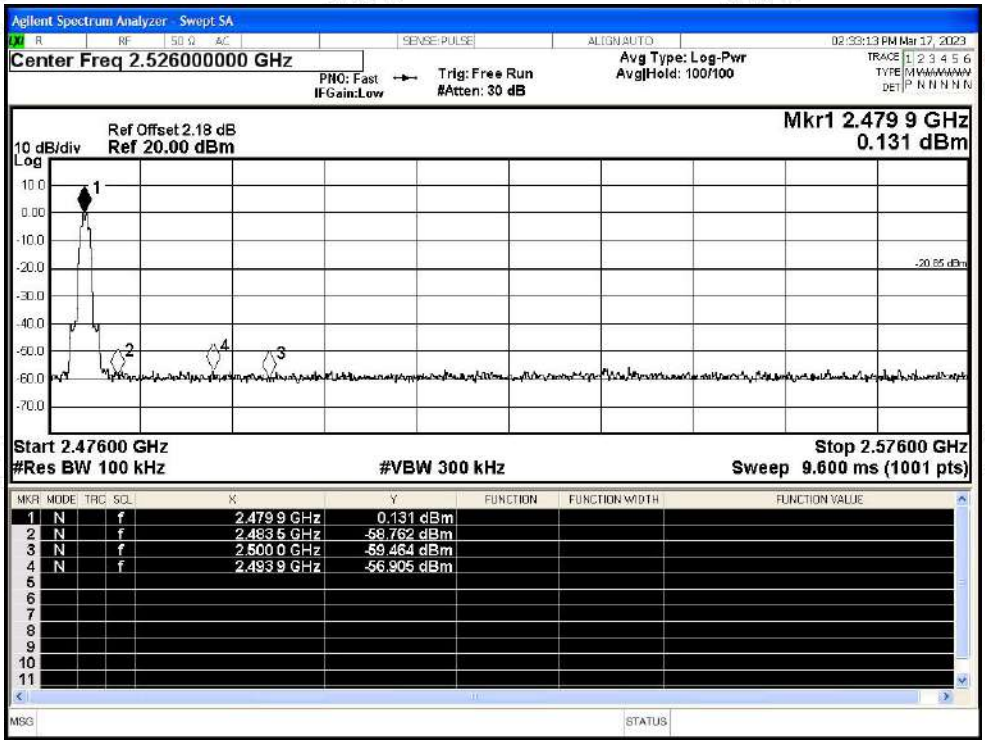
Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Emission



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



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

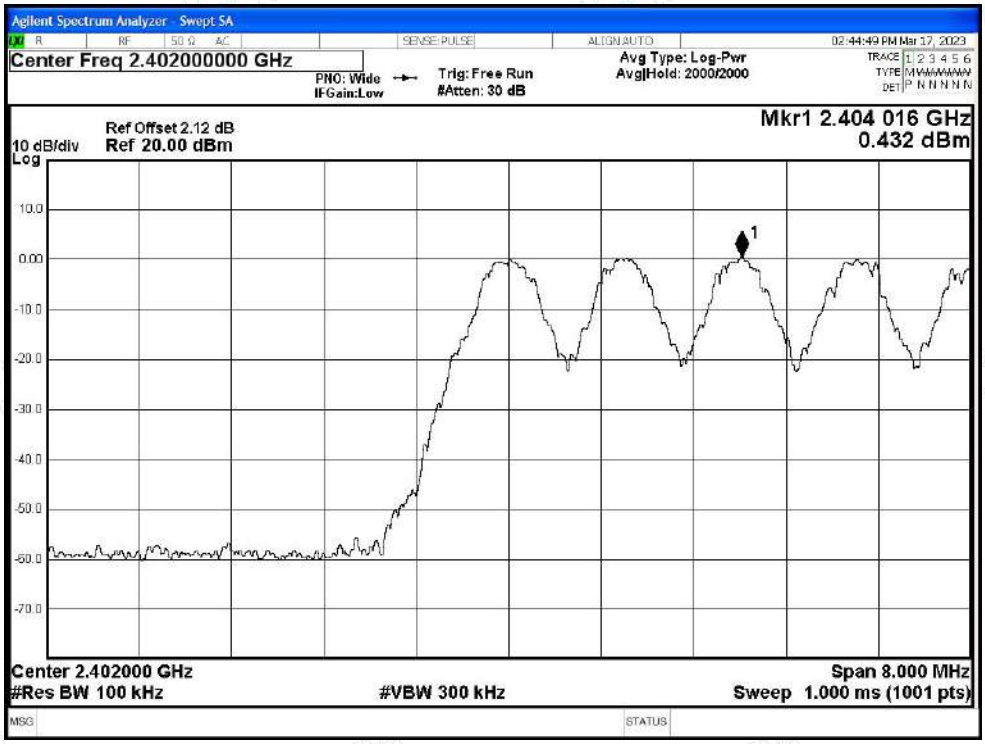


(Hopping)

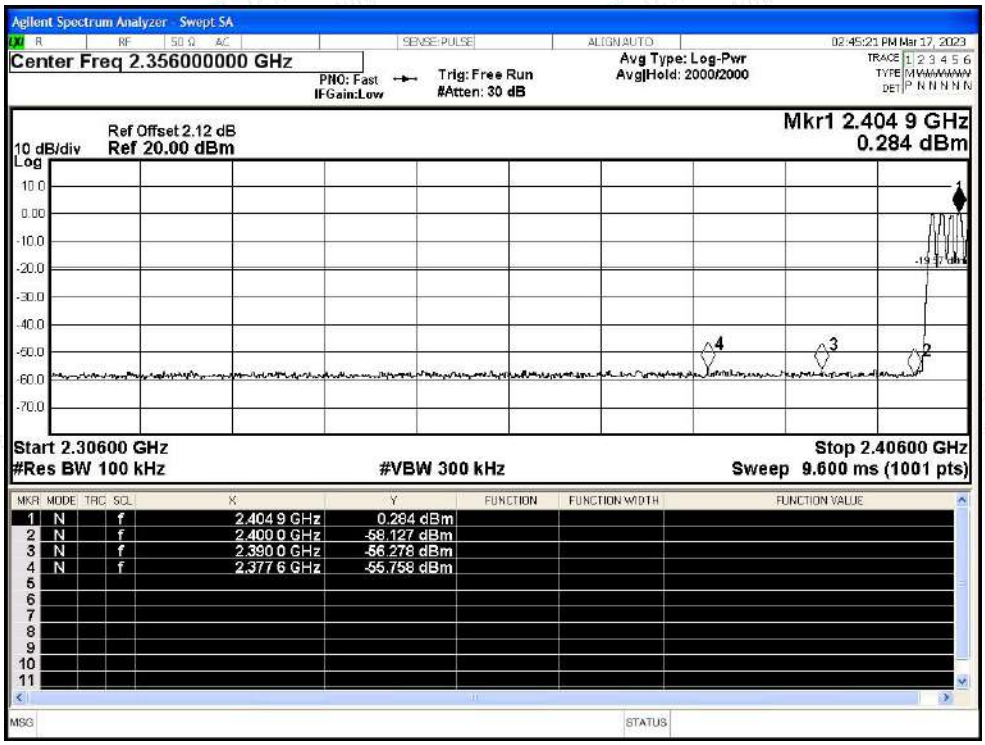
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-56.19	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-56.59	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-52.11	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-55.1	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-52.4	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-55.84	-20	Pass

Test Graphs

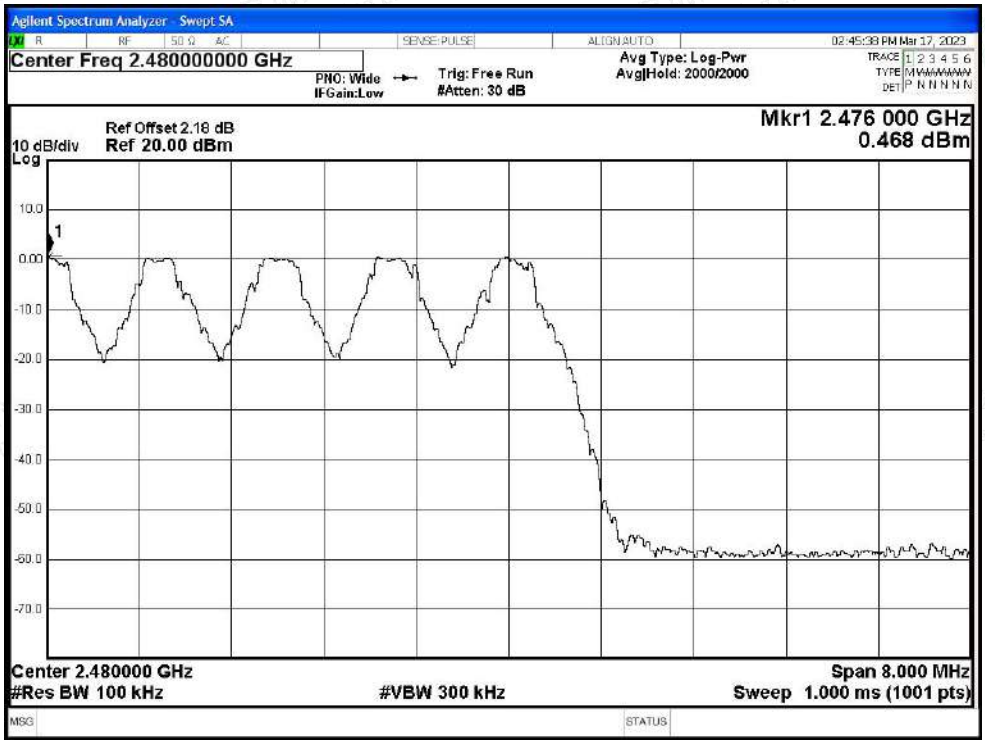
Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Ref



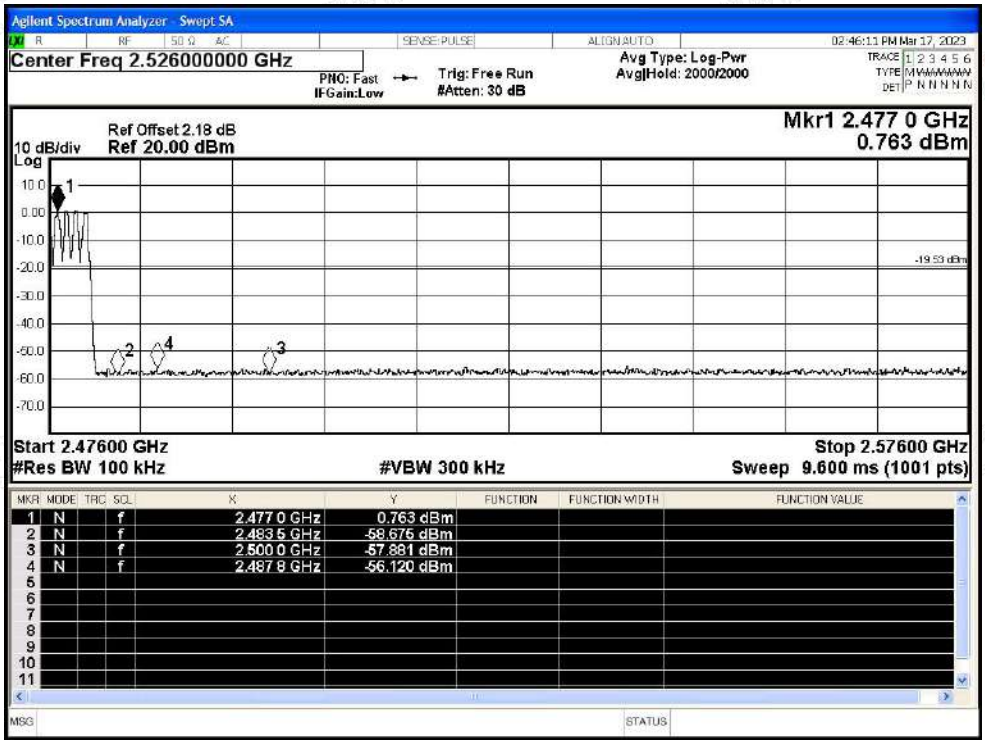
Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission



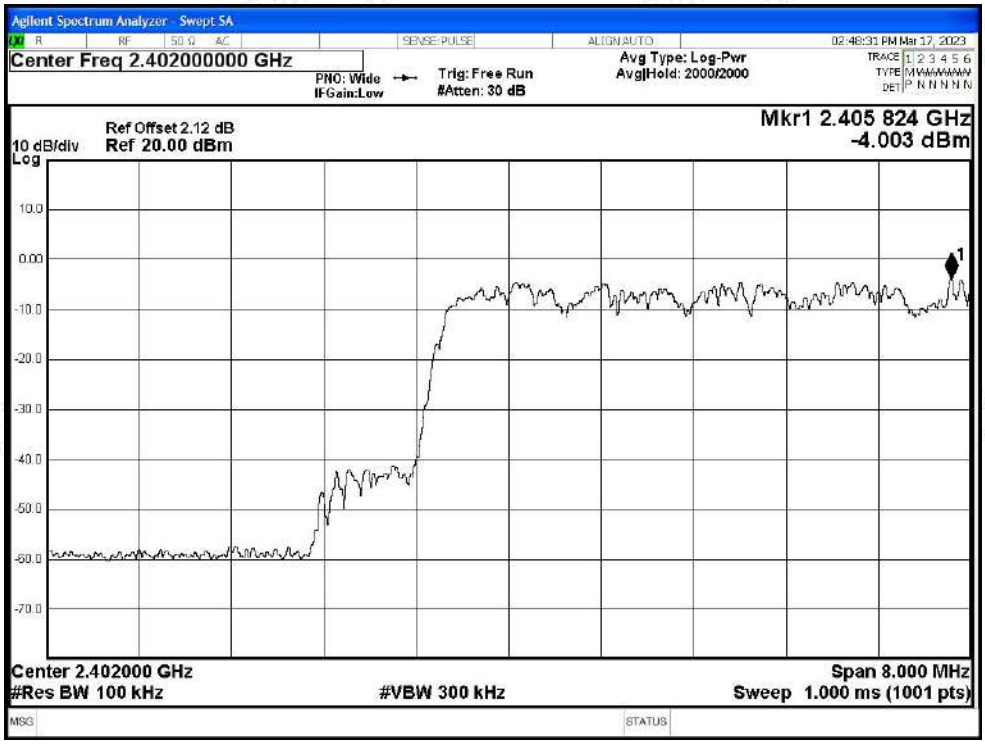
Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Ref



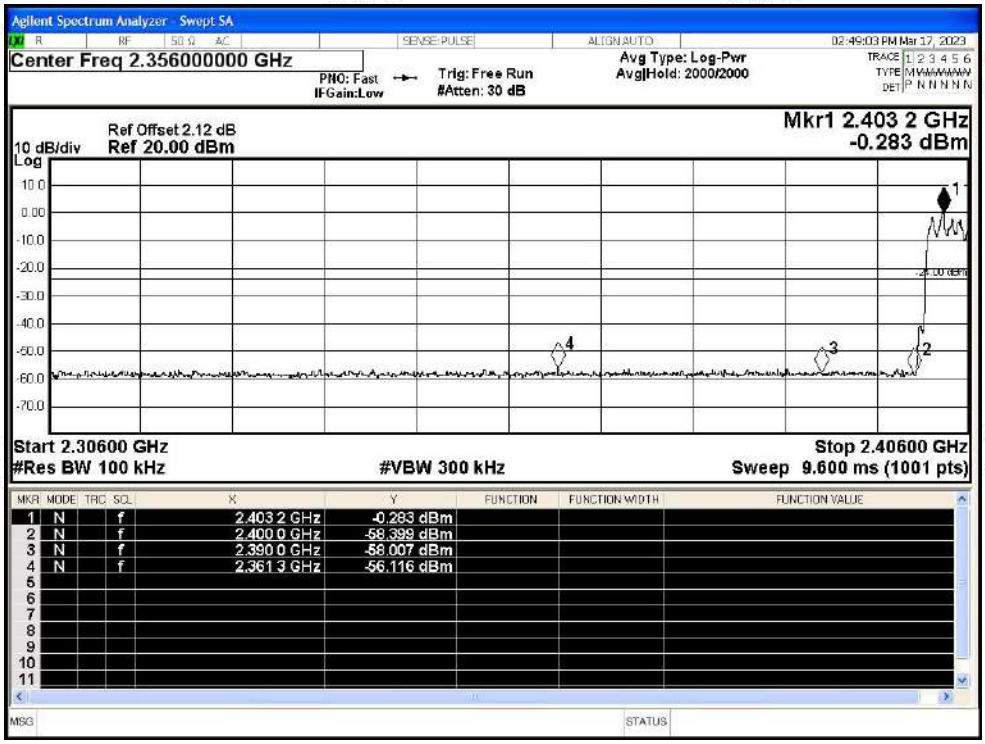
Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Emission



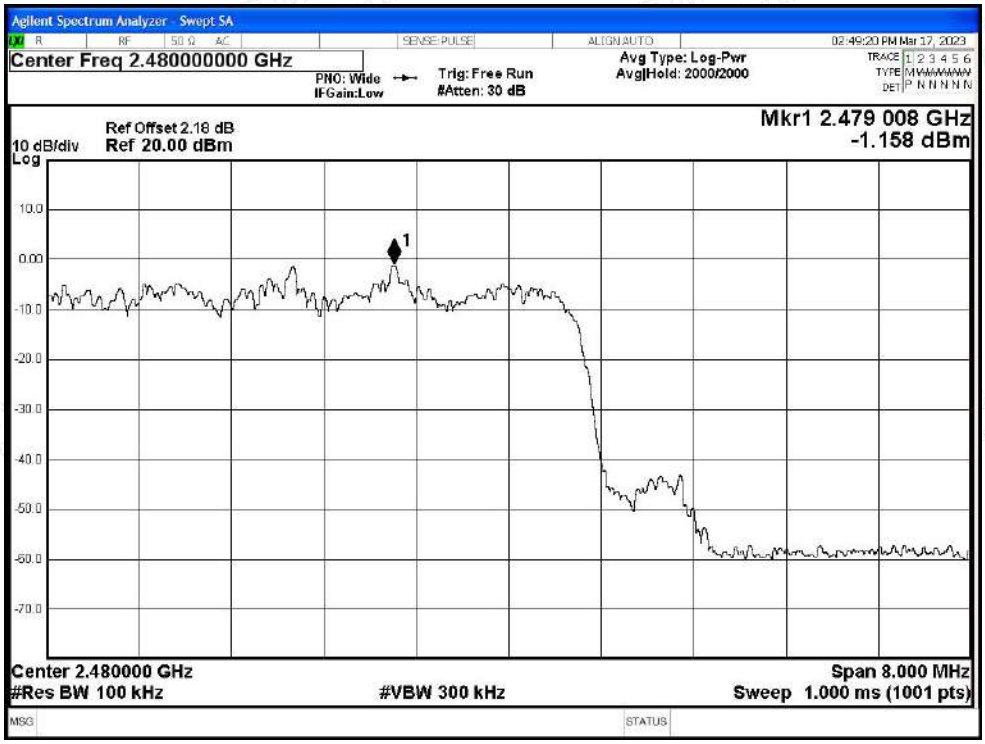
Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Ref



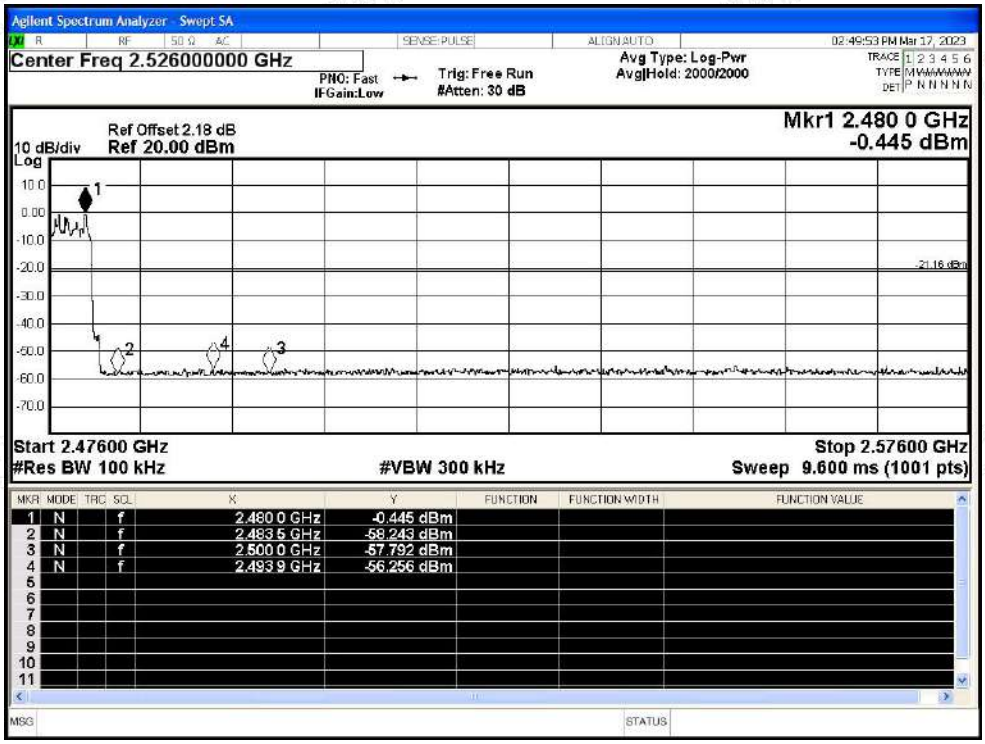
Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Emission



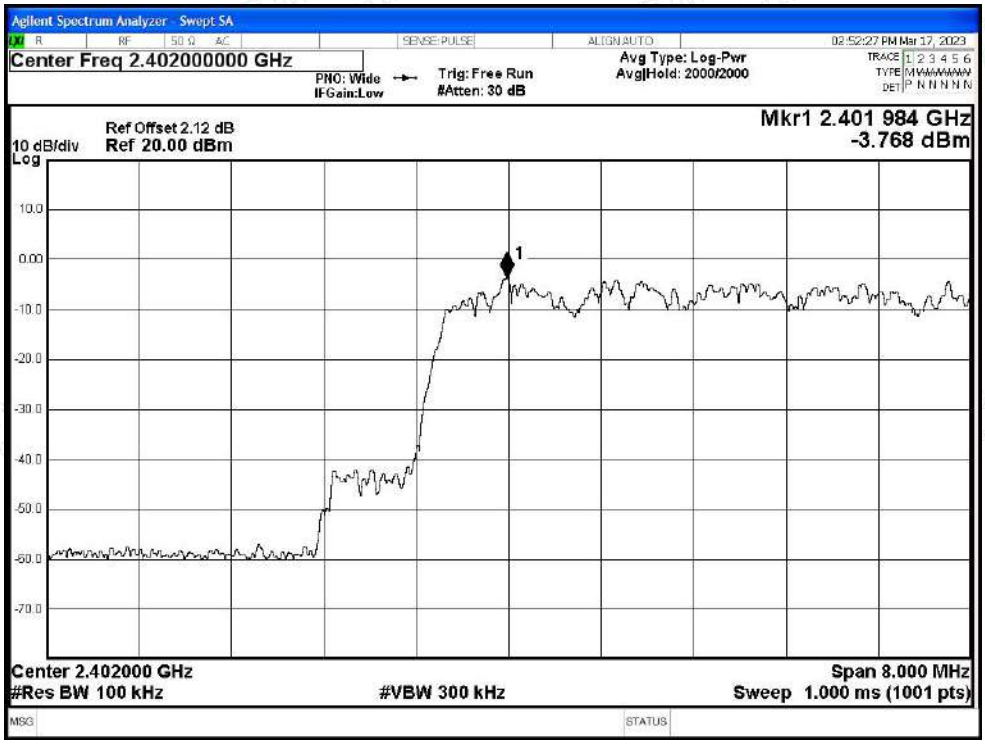
Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Ref



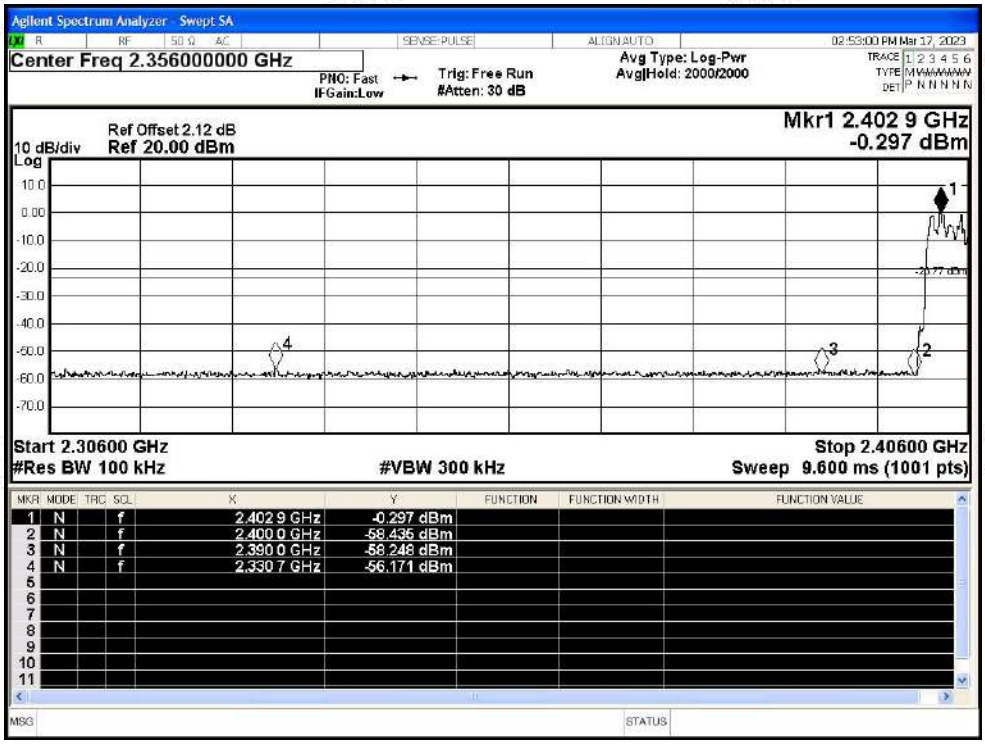
Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Emission



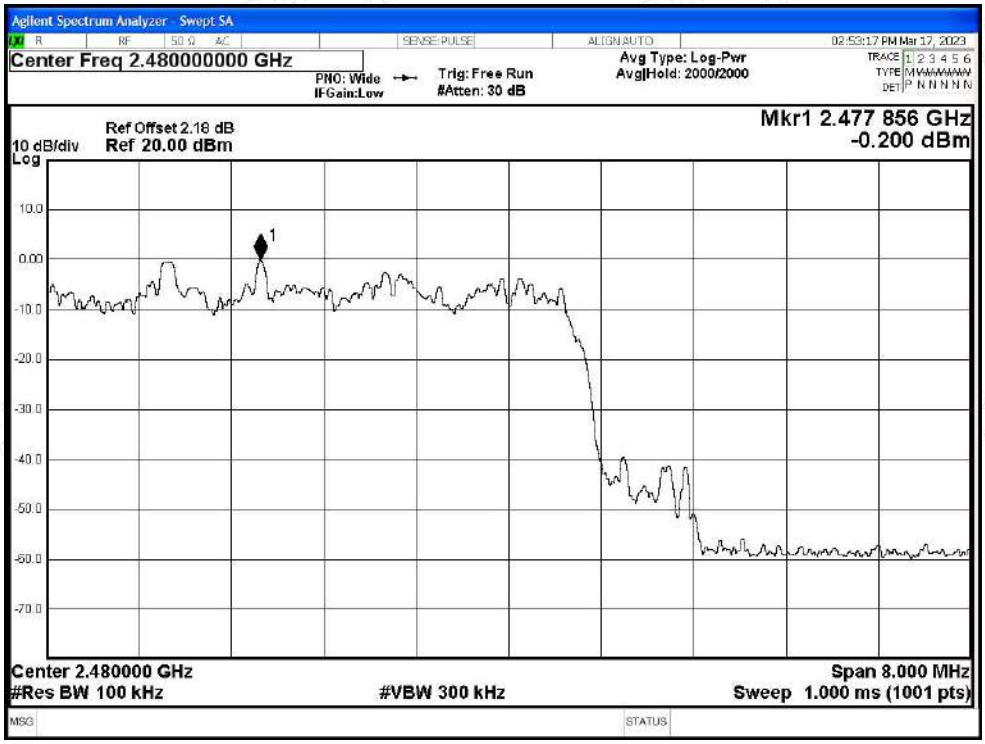
Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Ref



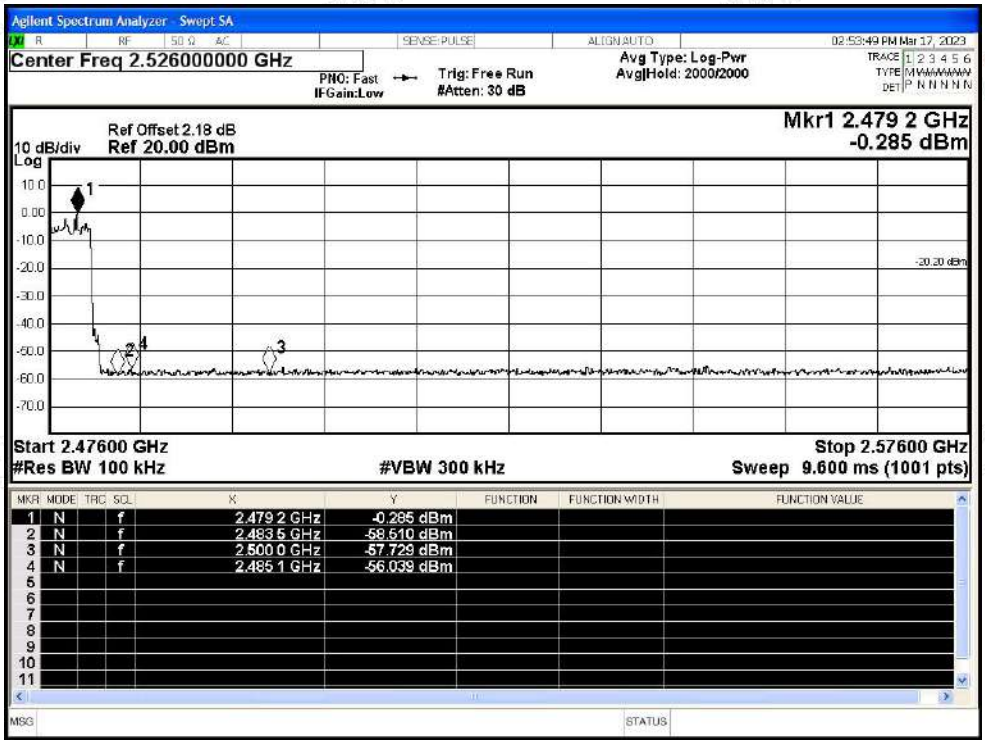
Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Emission



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



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

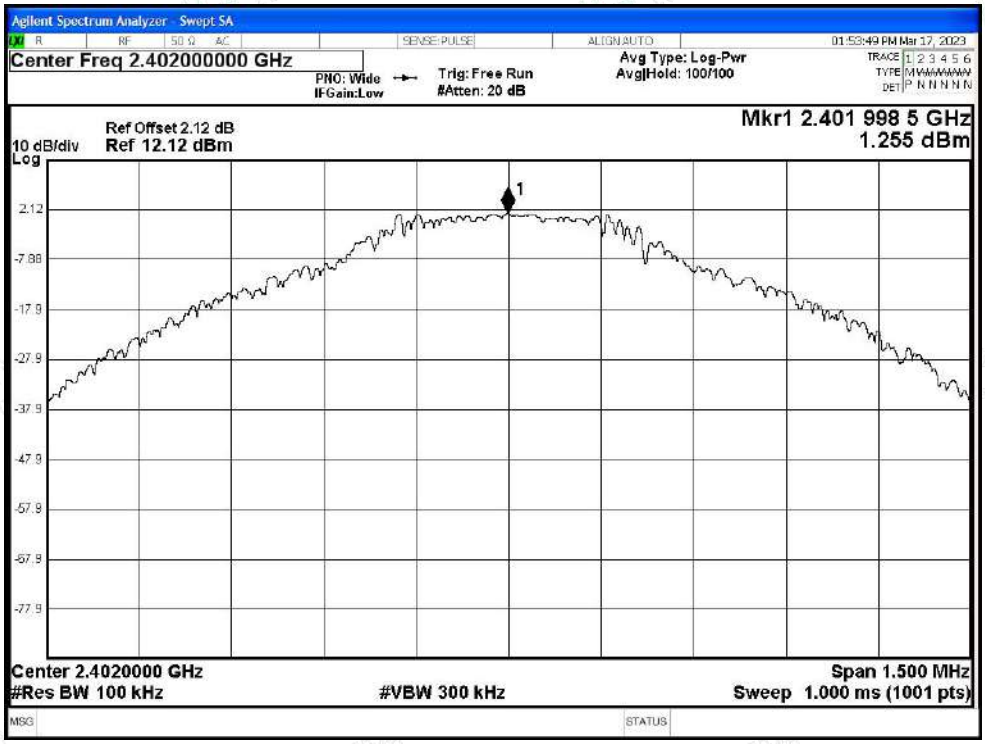


A.7 Conducted RF Spurious Emission

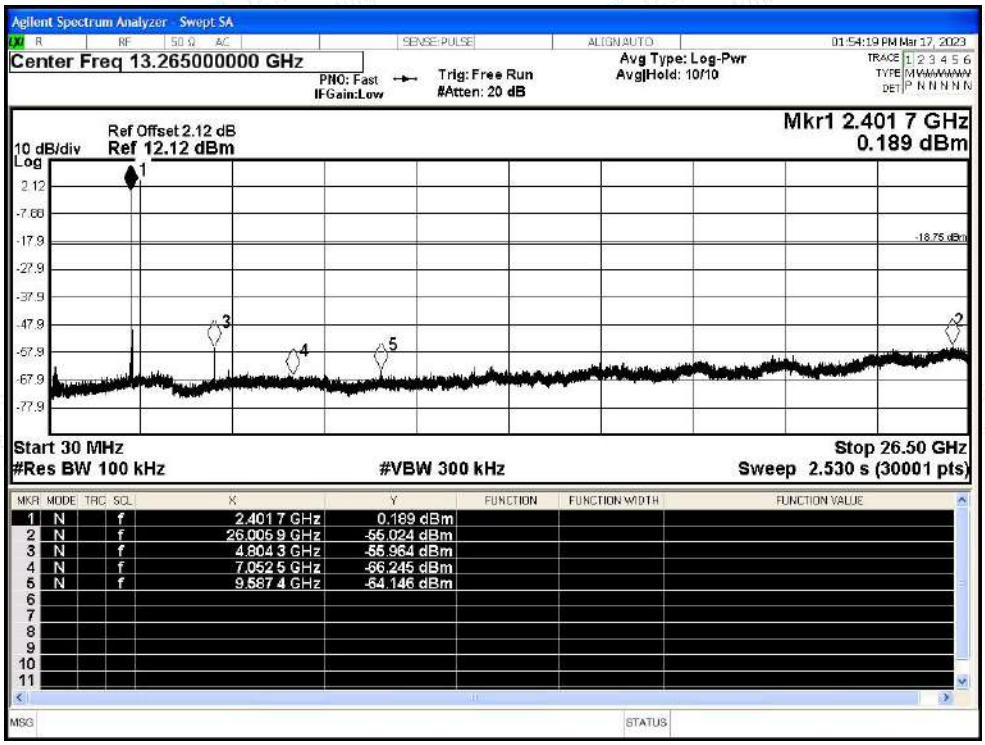
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-56.28	-20	Pass
NVNT	1-DH5	2441	Ant1	-57.26	-20	Pass
NVNT	1-DH5	2480	Ant1	-56.24	-20	Pass
NVNT	2-DH5	2402	Ant1	-54.99	-20	Pass
NVNT	2-DH5	2441	Ant1	-56.32	-20	Pass
NVNT	2-DH5	2480	Ant1	-55.03	-20	Pass
NVNT	3-DH5	2402	Ant1	-54.52	-20	Pass
NVNT	3-DH5	2441	Ant1	-56.16	-20	Pass
NVNT	3-DH5	2480	Ant1	-55.49	-20	Pass

Test Graphs

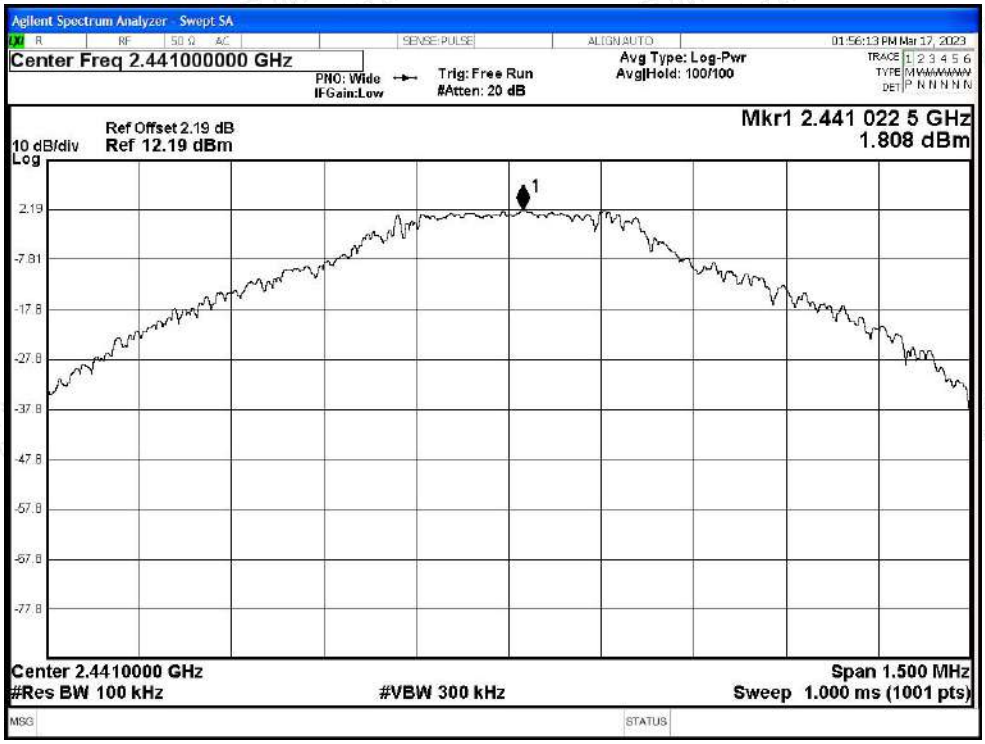
Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref



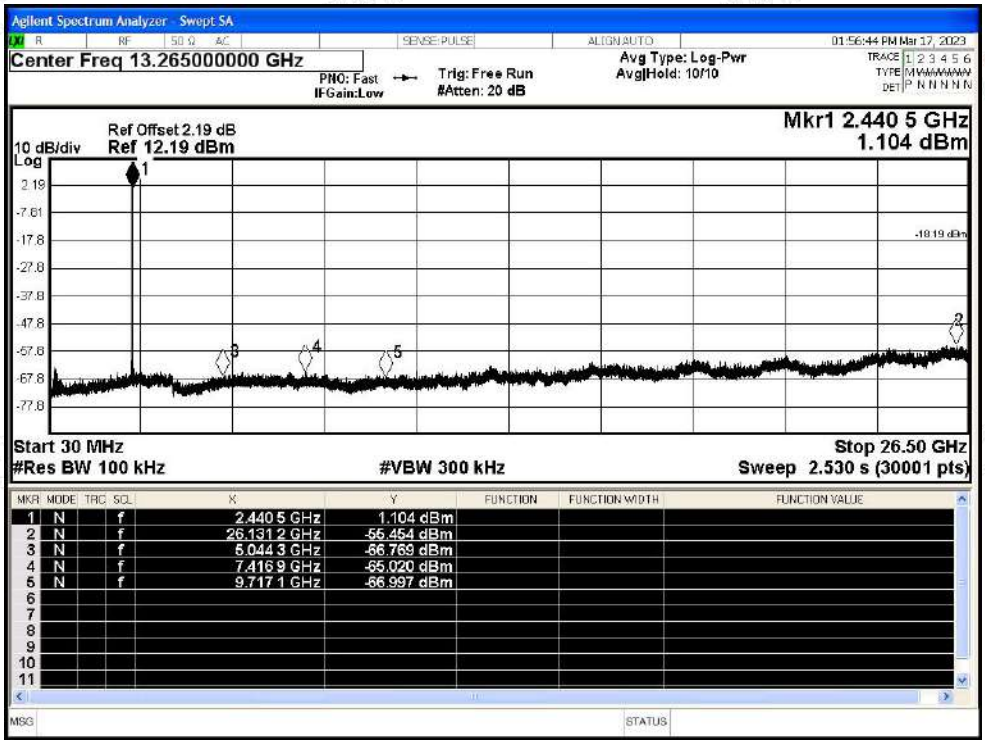
Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission



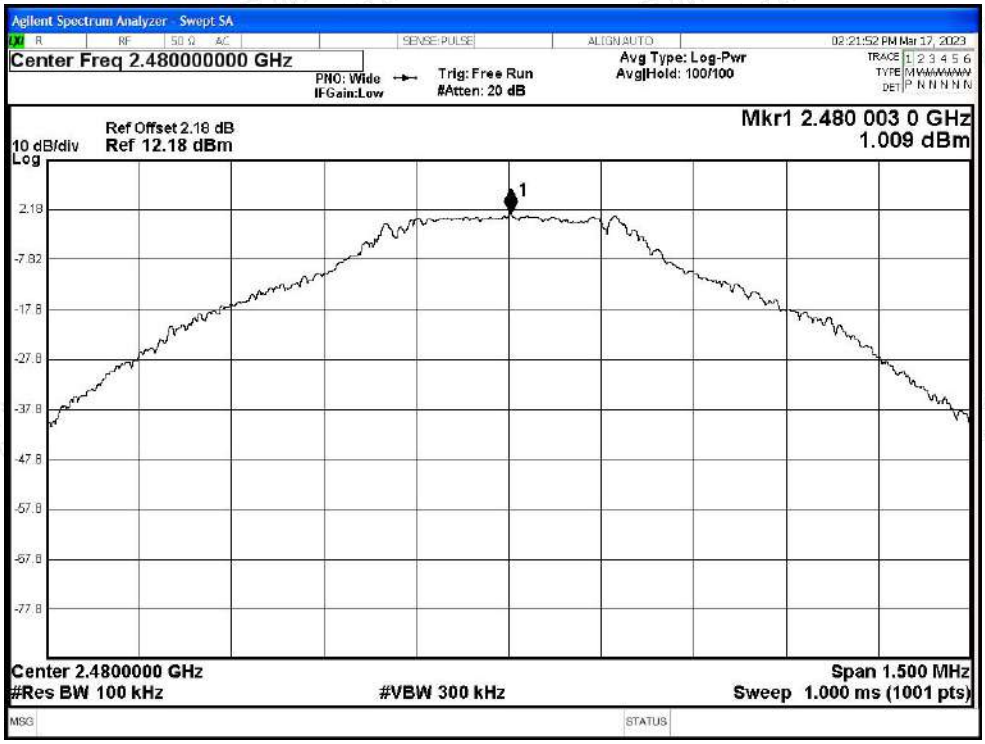
Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref



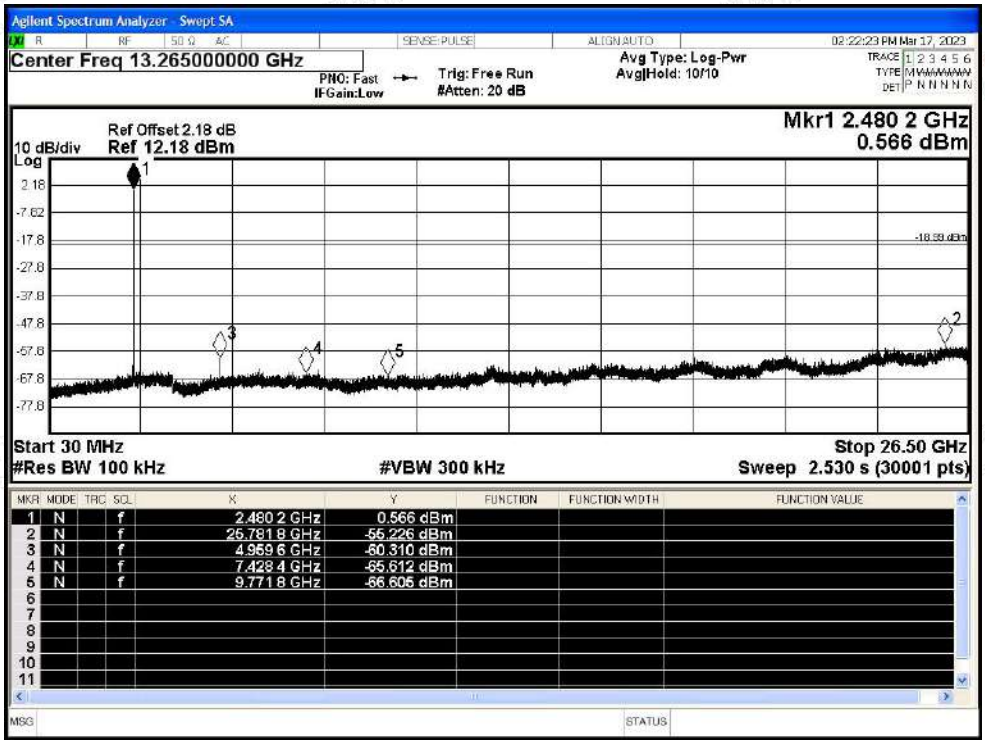
Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission



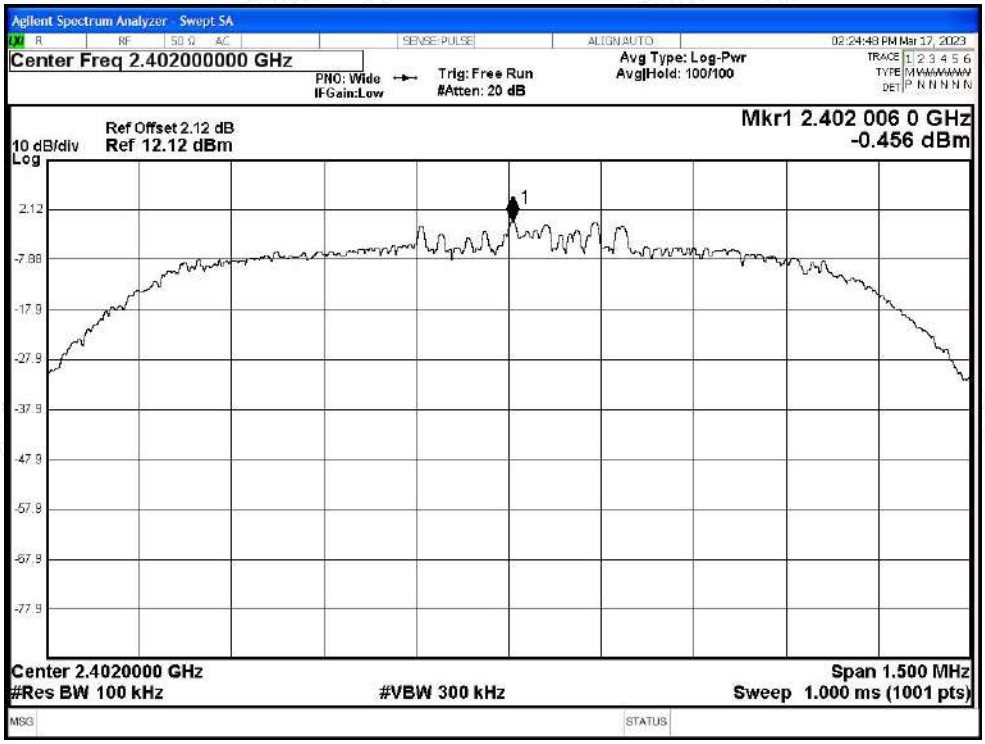
Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref



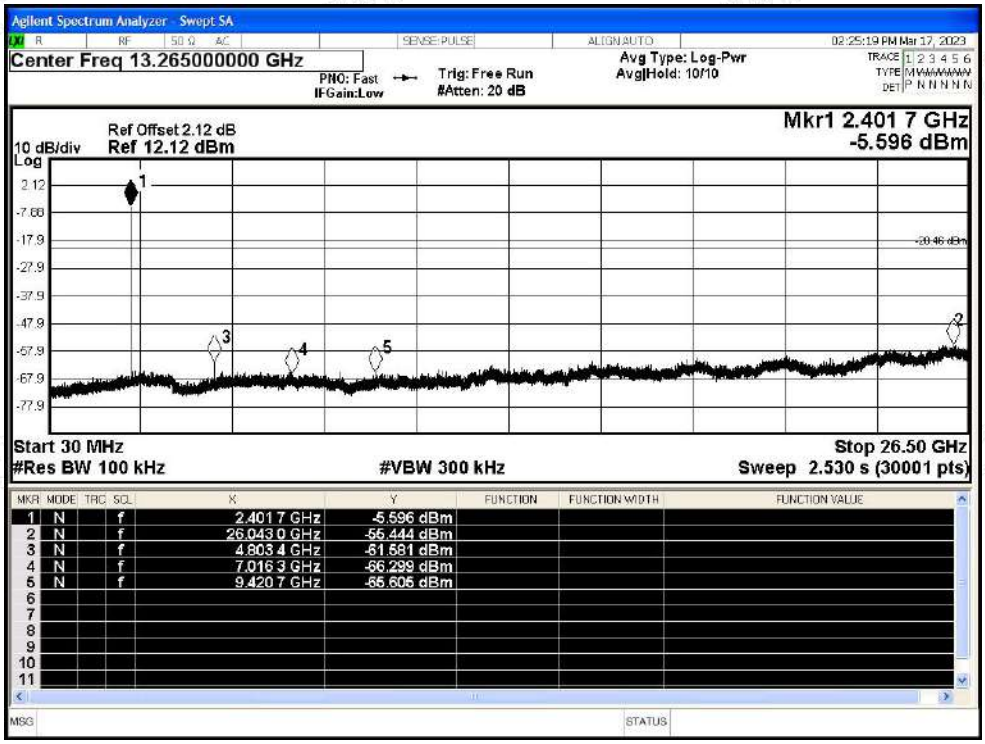
Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission



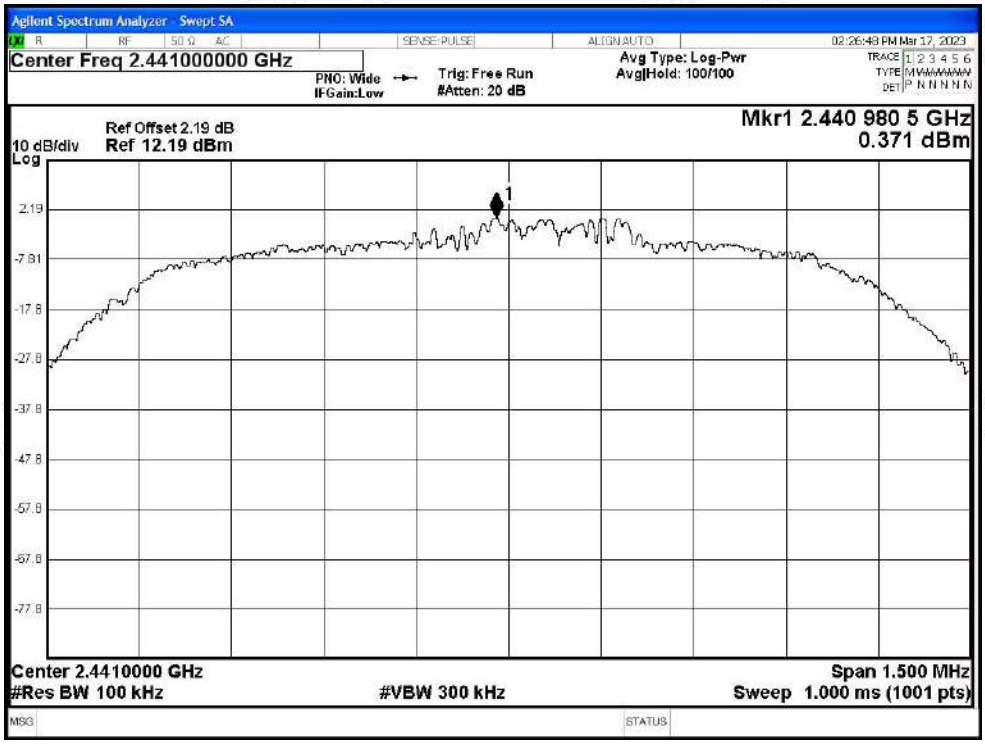
Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref



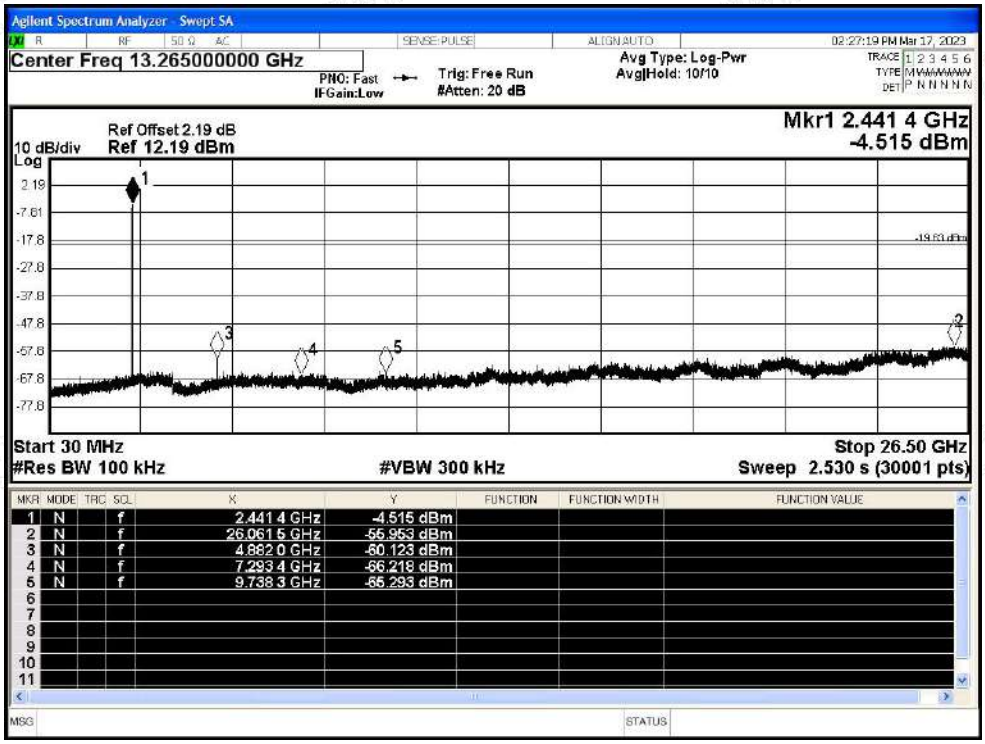
Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission



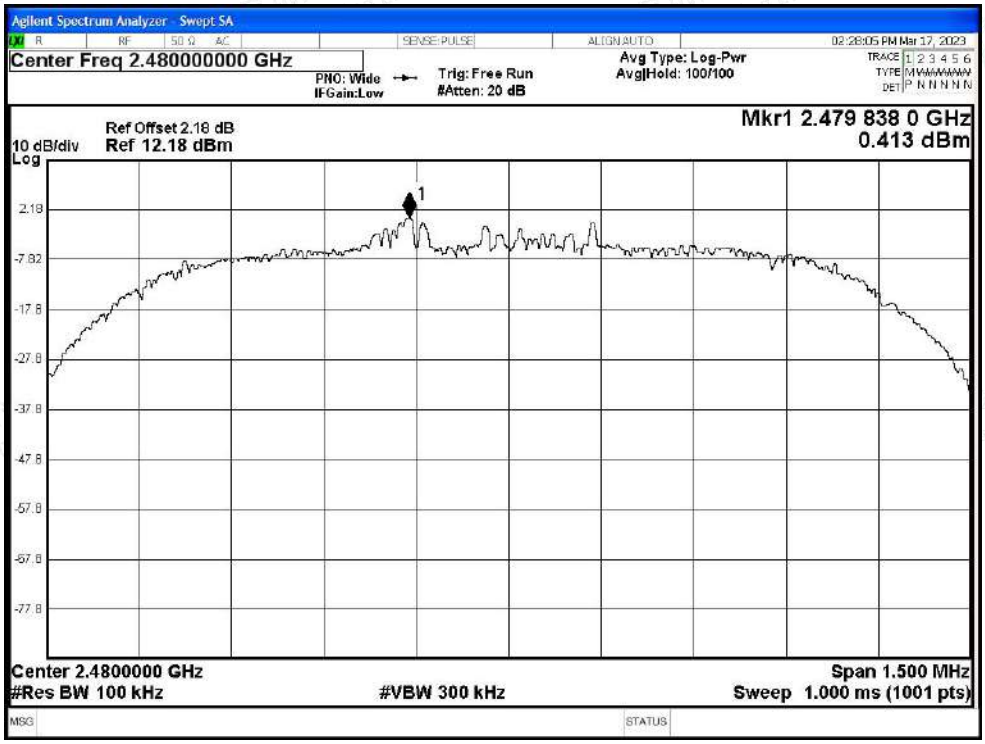
Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref



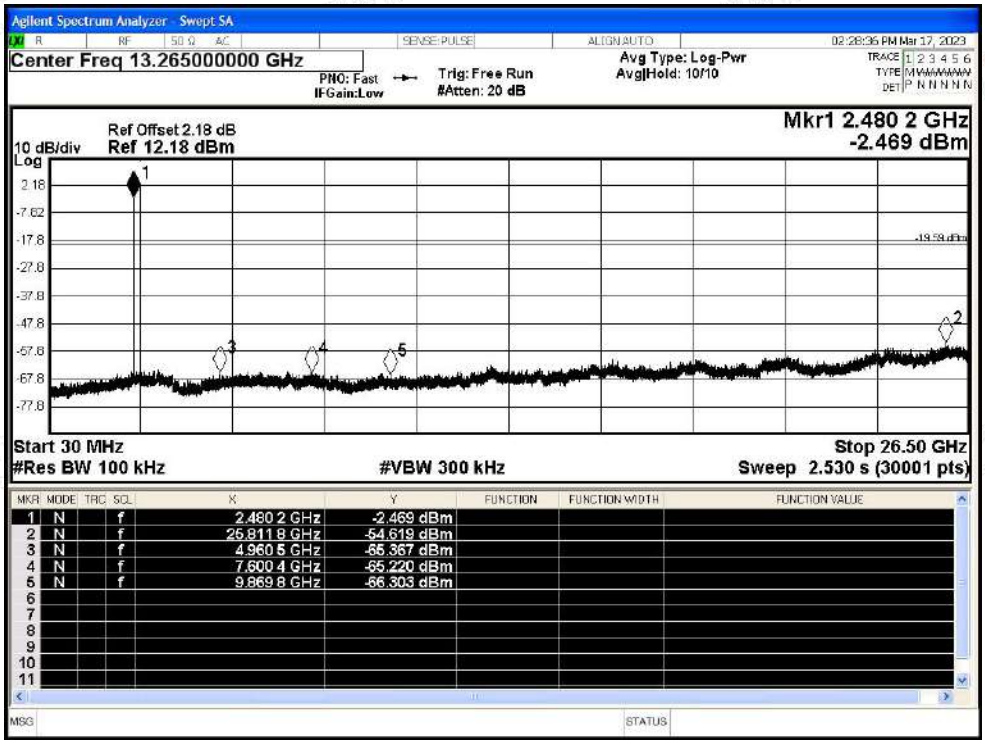
Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission



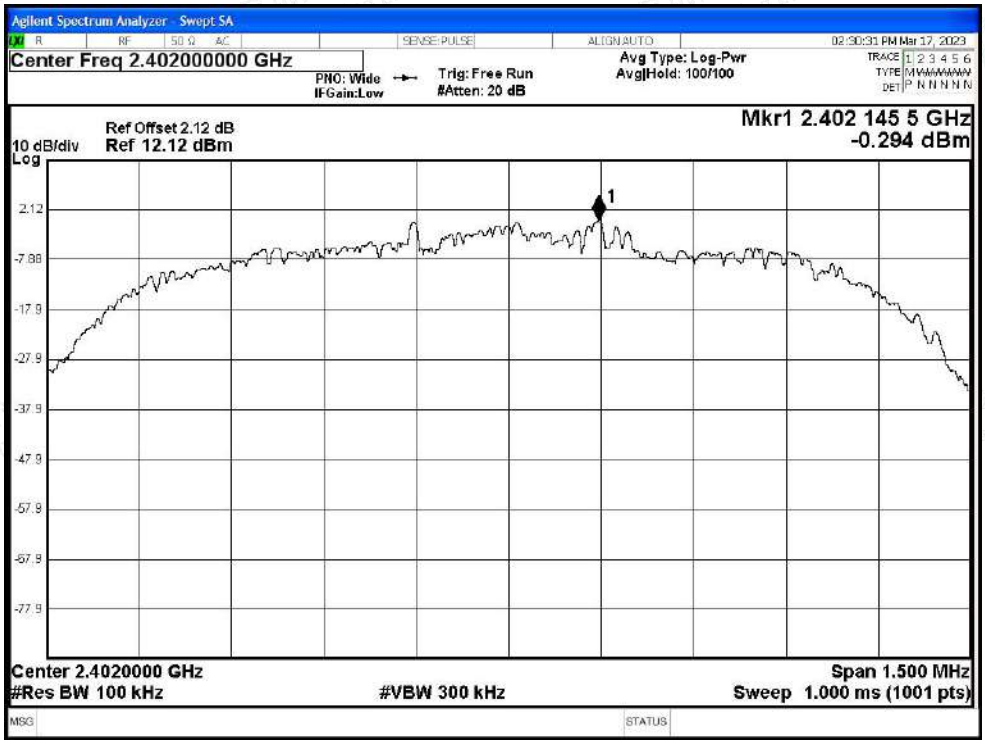
Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref



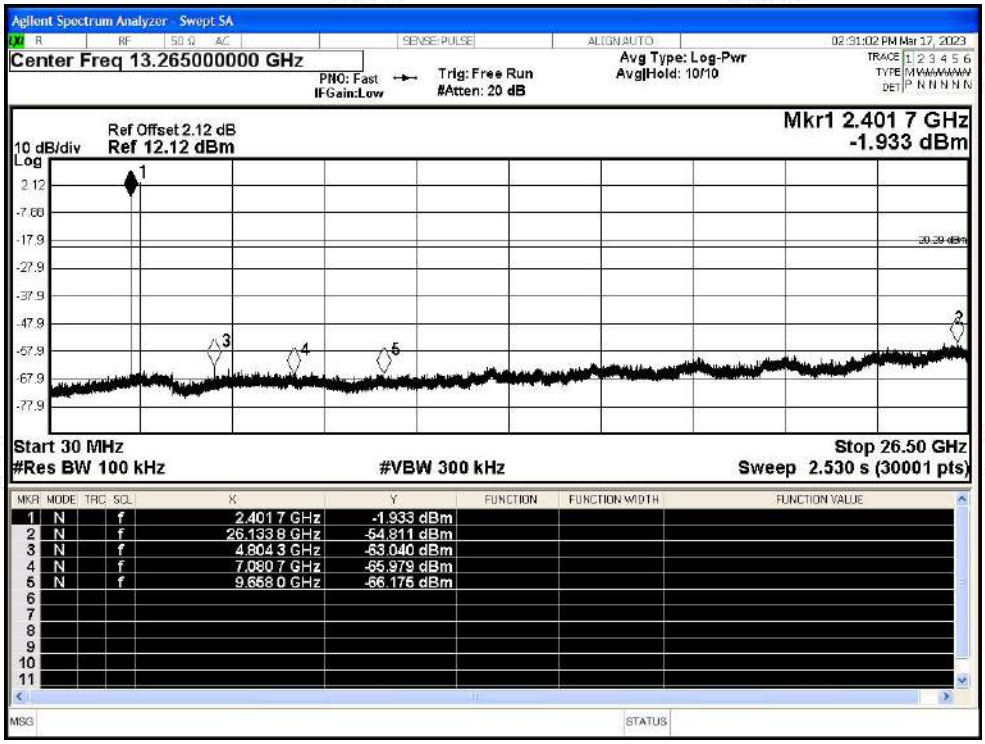
Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Emission



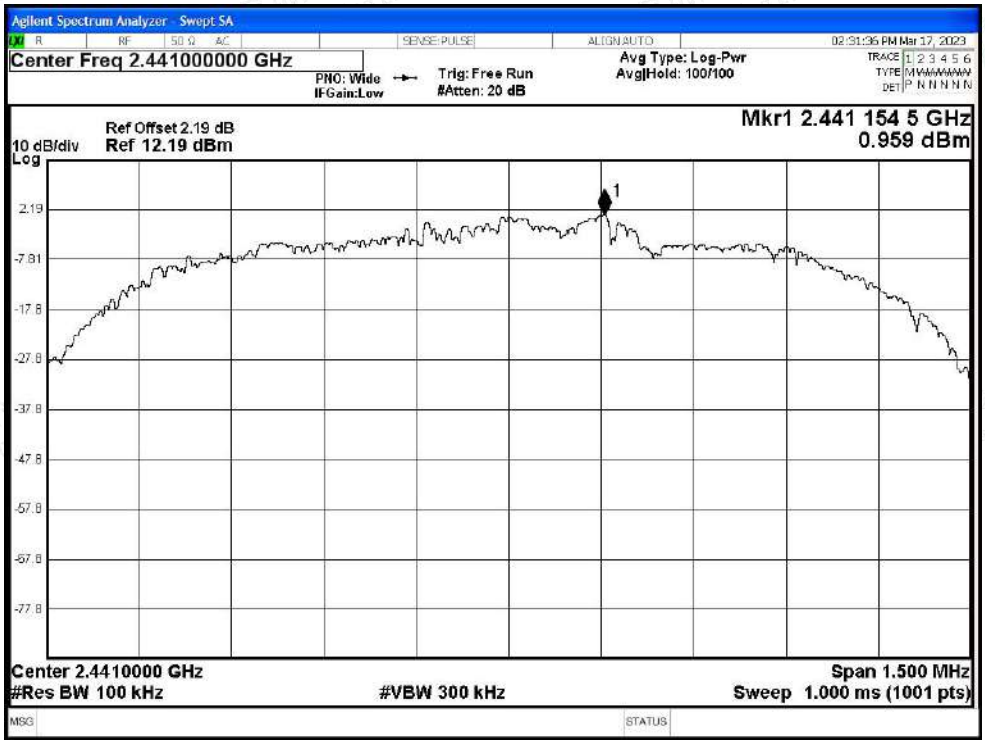
Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Ref



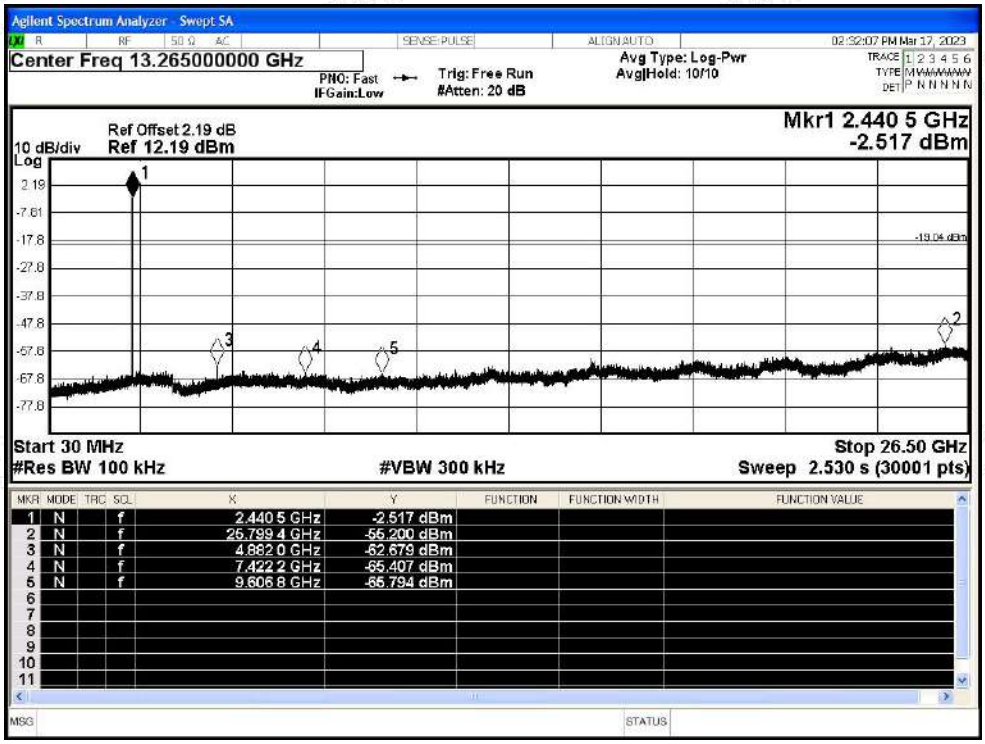
Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Emission



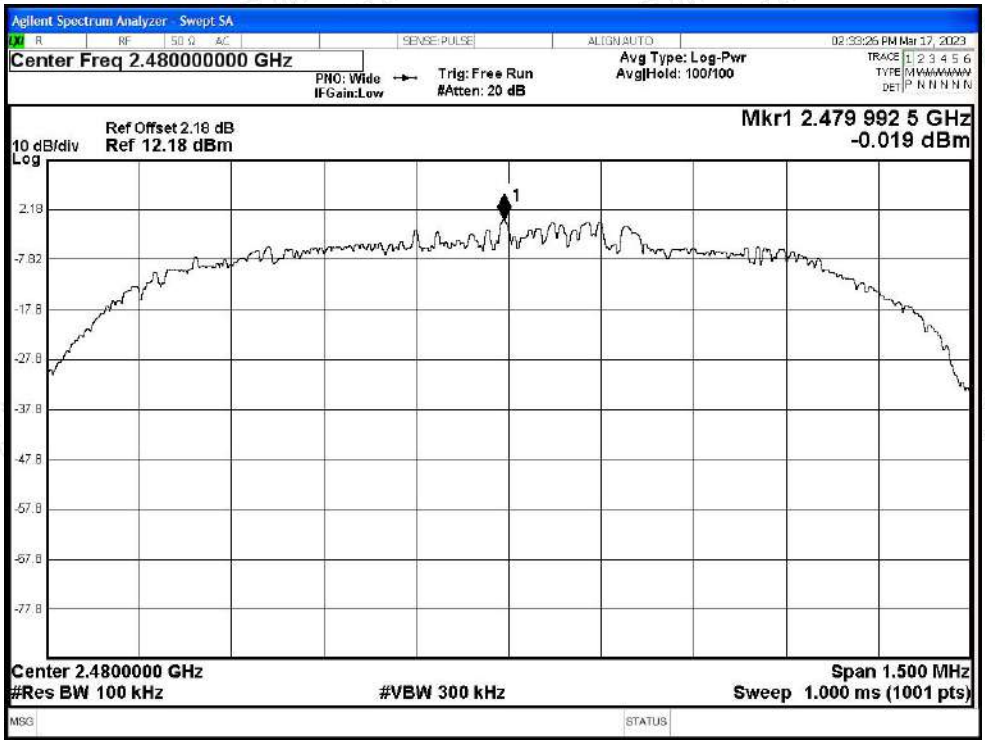
Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Ref



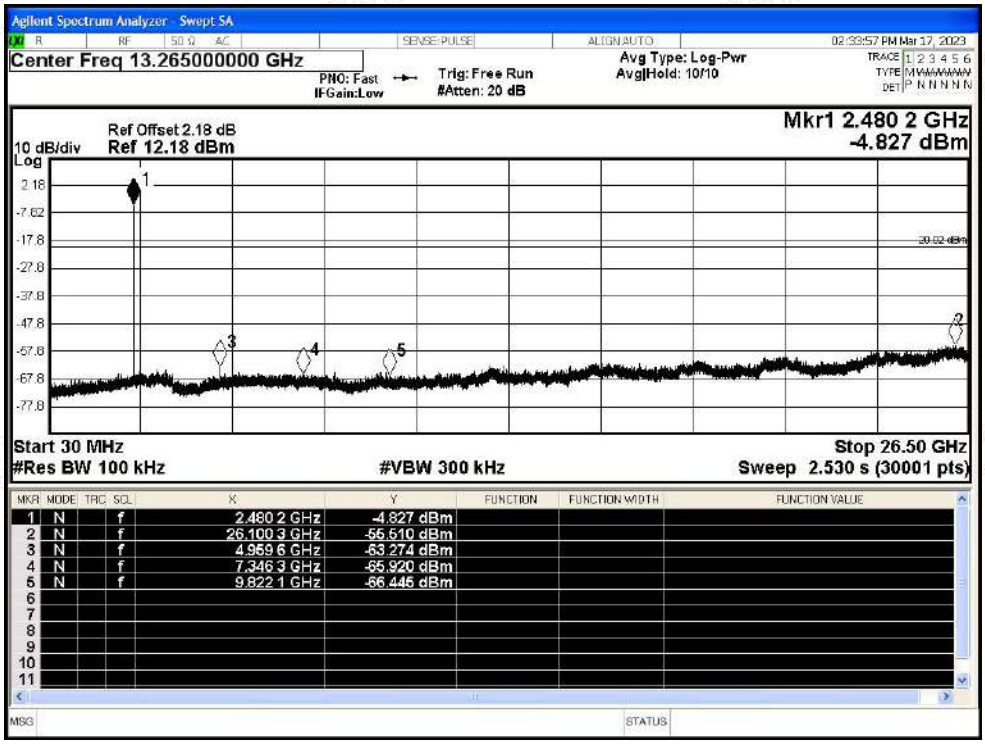
Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Emission



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Emission

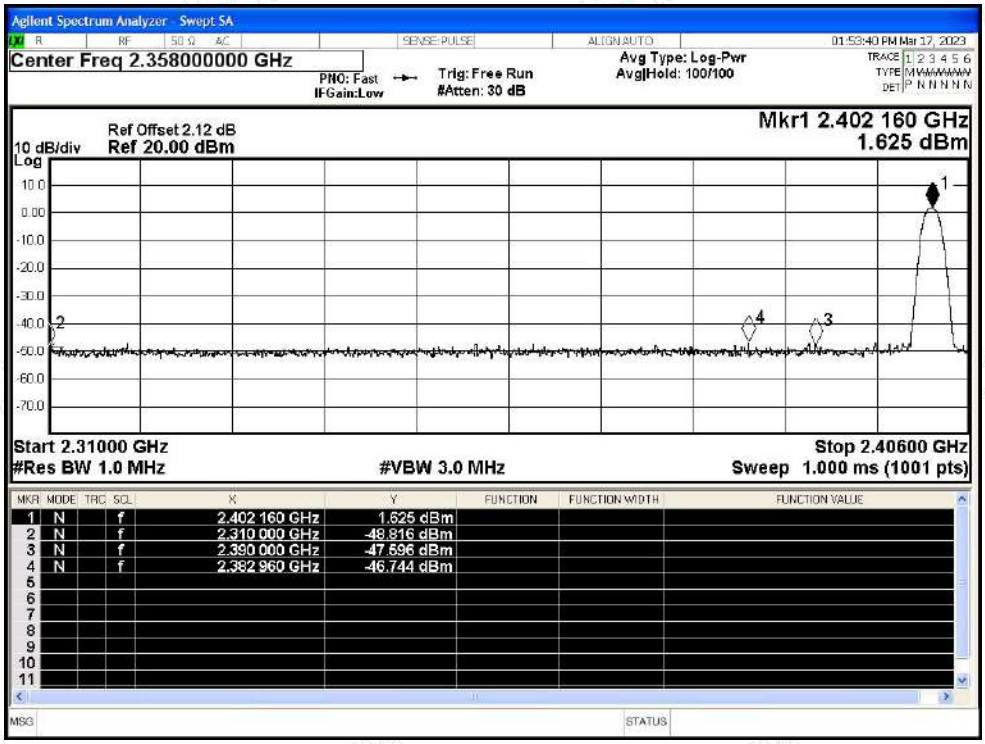


A.8 Restrict Band

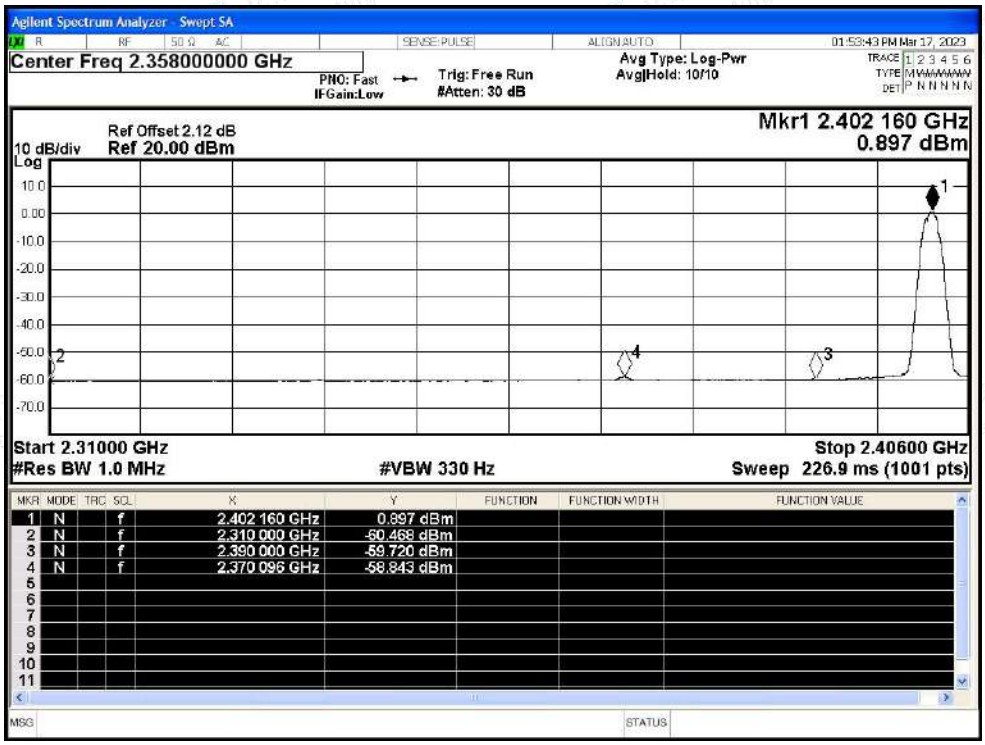
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-48.82	2	48.44	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-60.47	2	36.79	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2382.96	-46.74	2	50.52	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2370.096	-58.84	2	38.42	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-47.6	2	49.66	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-59.72	2	37.54	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-49.19	2	48.07	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-59.44	2	37.82	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2493.664	-46.68	2	50.58	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2484.808	-59.33	2	37.93	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-48.6	2	48.66	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-59.67	2	37.59	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-51.95	2	45.31	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-60.39	2	36.87	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2342.736	-47.25	2	50.01	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2384.112	-59.84	2	37.42	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-50.32	2	46.94	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-60.12	2	37.14	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-50.74	2	46.52	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-59.41	2	37.85	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2490.808	-46.95	2	50.31	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2493.952	-59.39	2	37.87	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-49.97	2	47.29	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-59.7	2	37.56	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-51.71	2	45.55	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-60.38	2	36.88	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2322.096	-47.02	2	50.24	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2367.984	-59.84	2	37.42	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-50.44	2	46.82	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-59.97	2	37.29	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-48.19	2	49.07	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-59.33	2	37.93	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2493.064	-47.32	2	49.94	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.536	-59.33	2	37.93	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-49.35	2	47.91	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-59.79	2	37.47	Average	54	Pass

Test Graphs

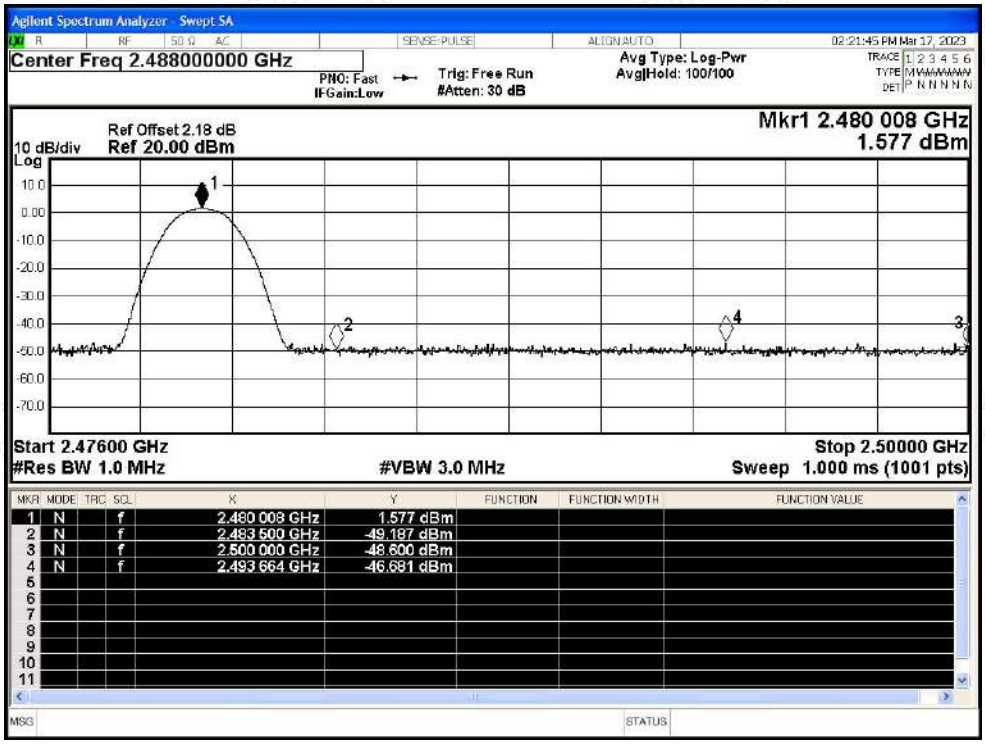
Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Peak



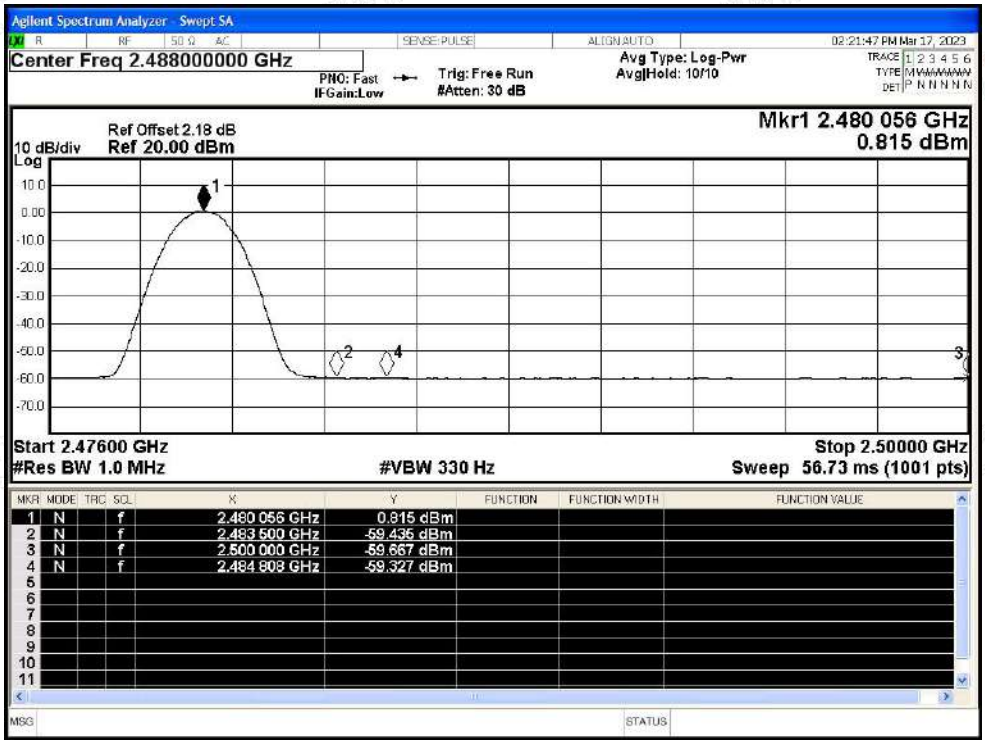
Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Average



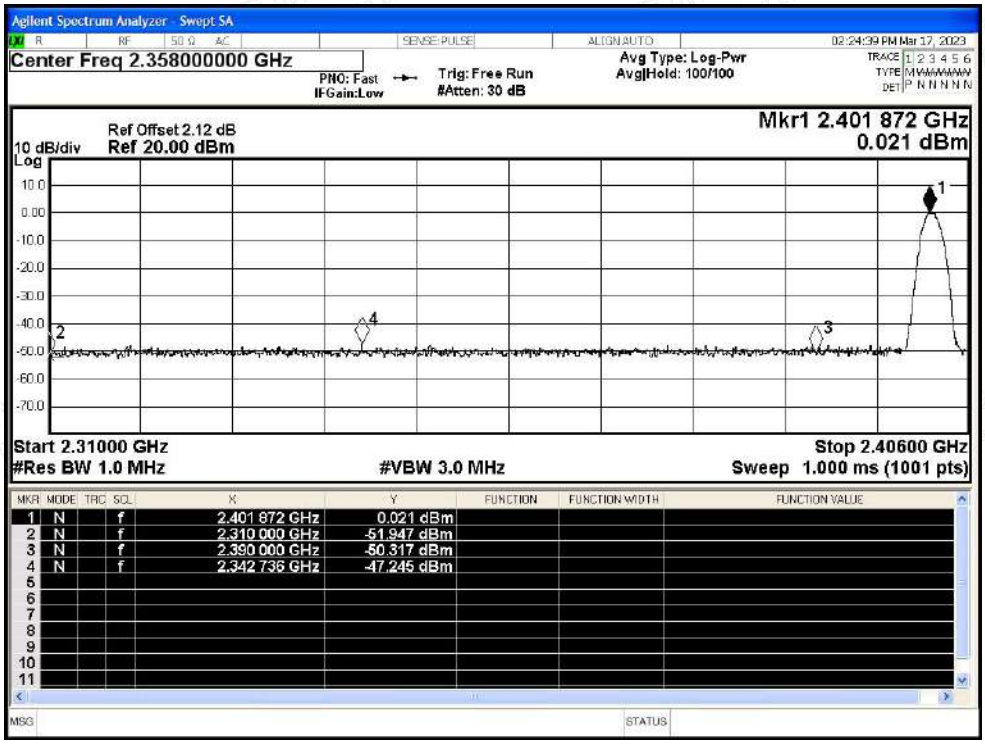
Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Peak



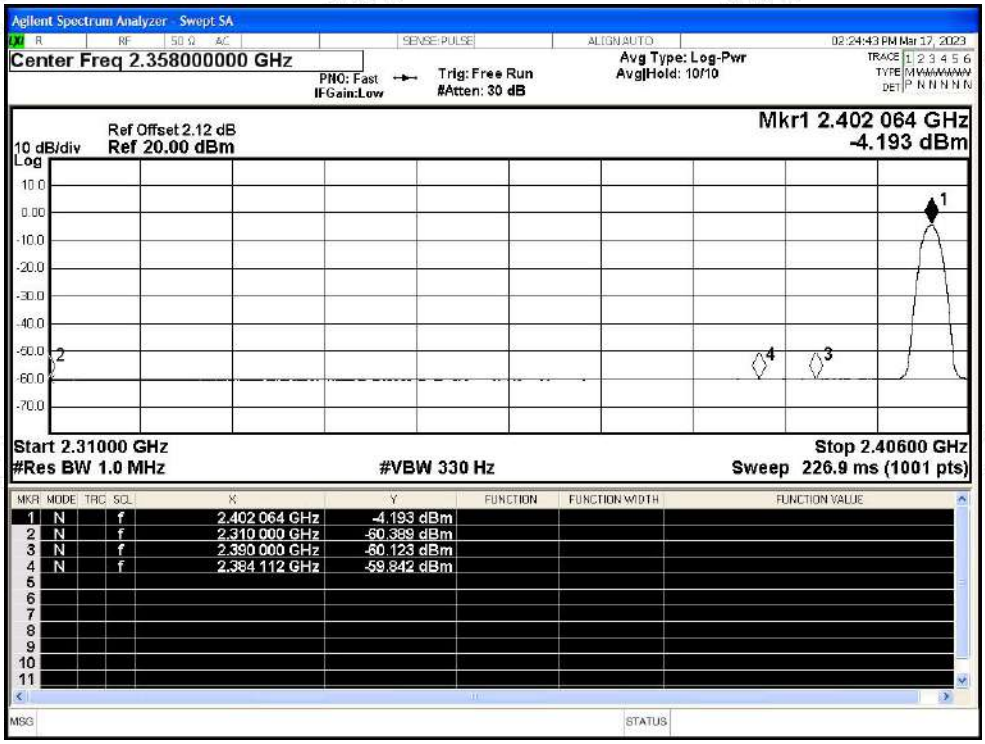
Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Average



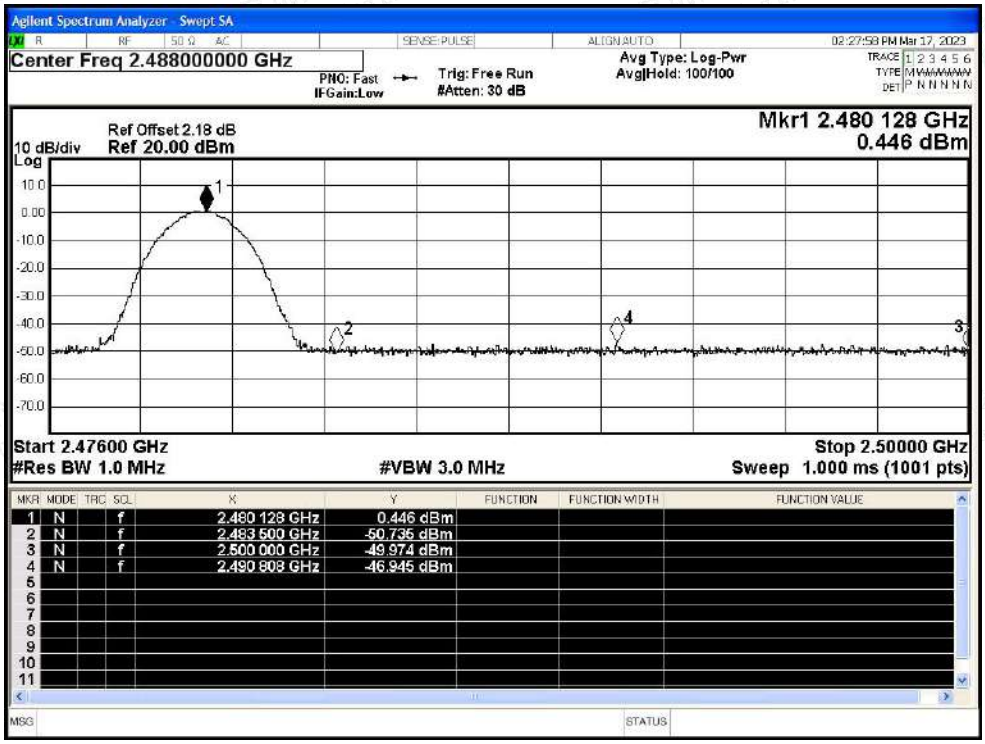
Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Peak



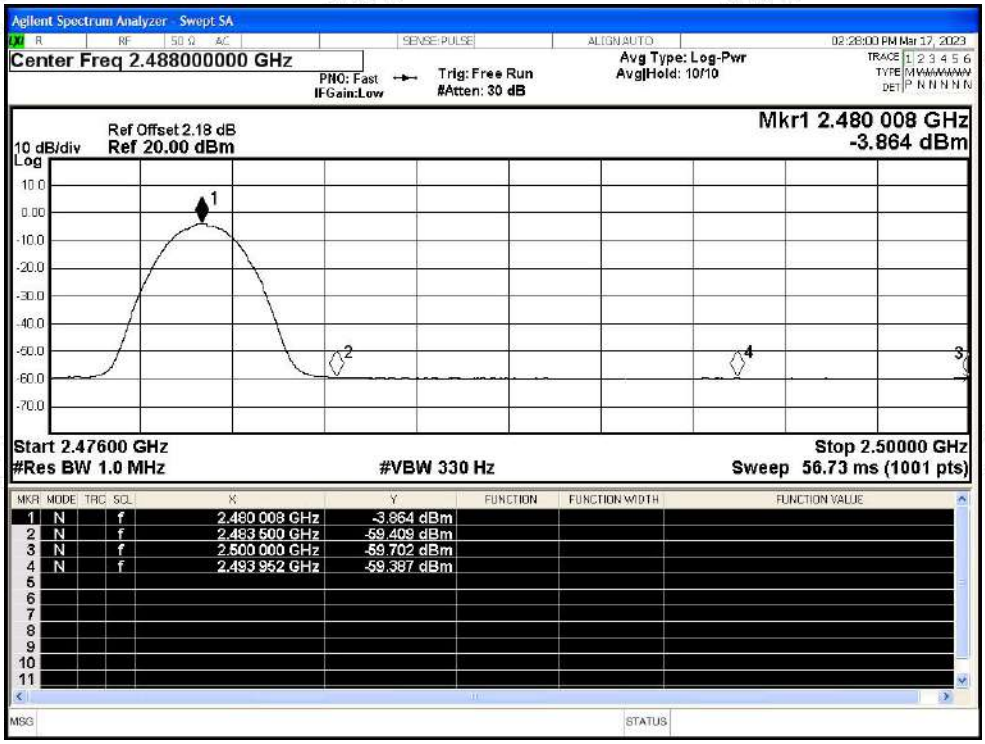
Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Average



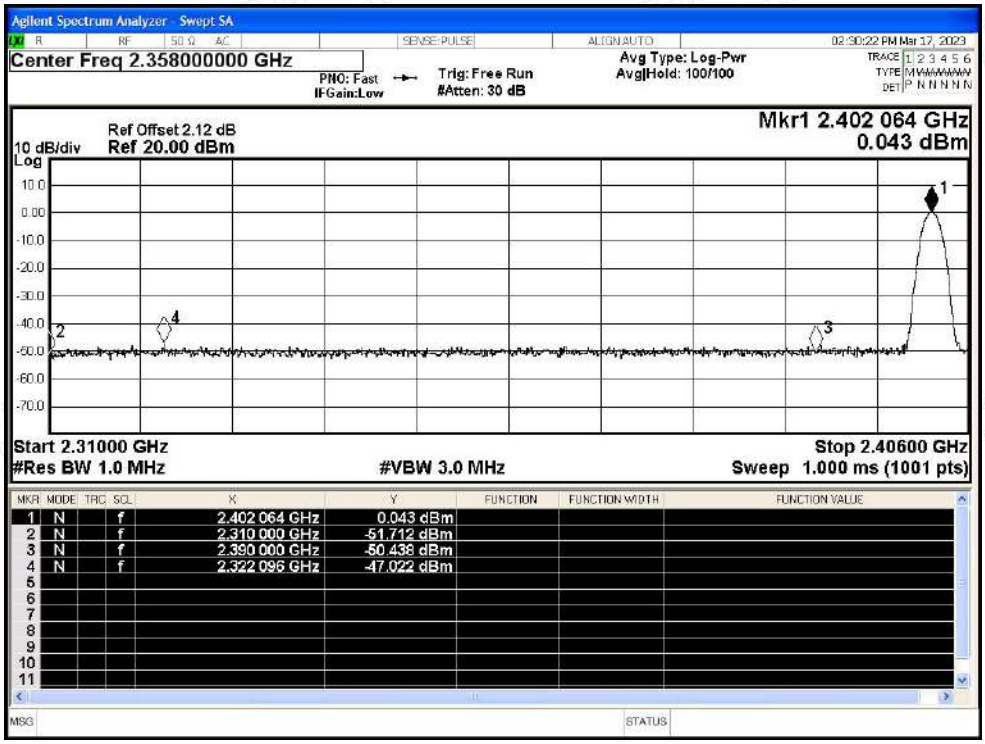
Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Peak



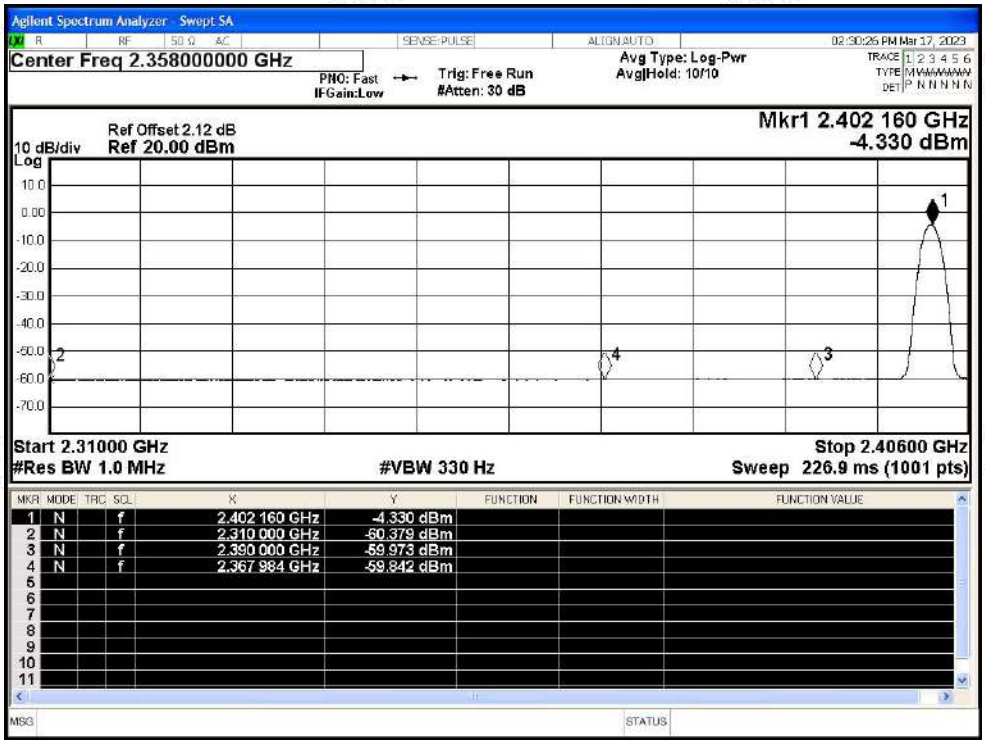
Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Average



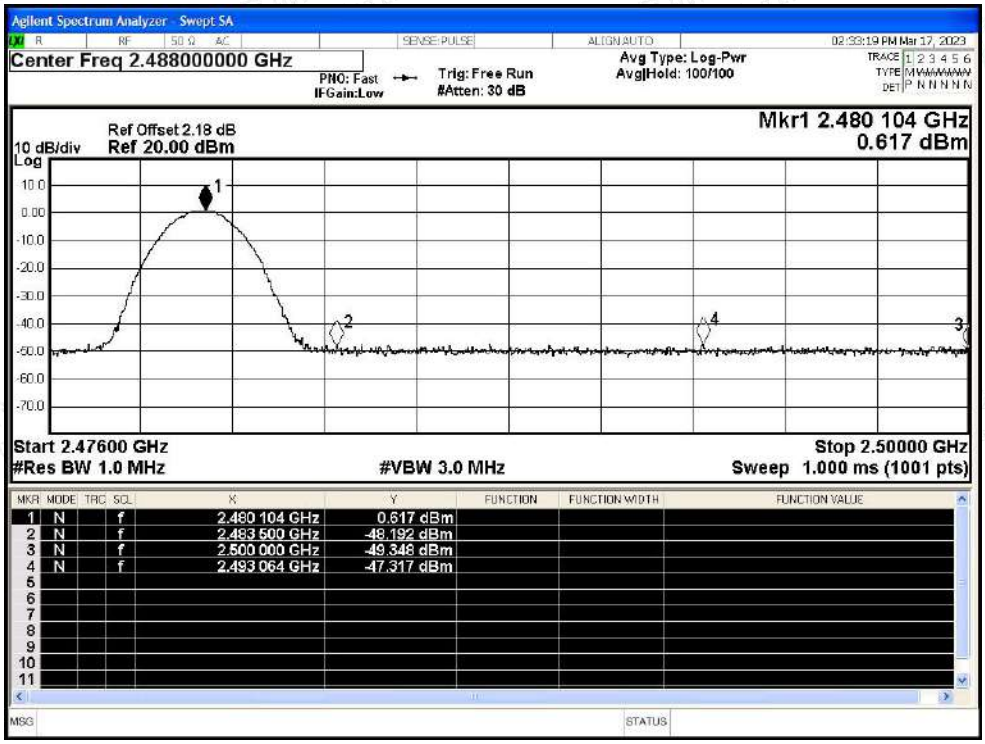
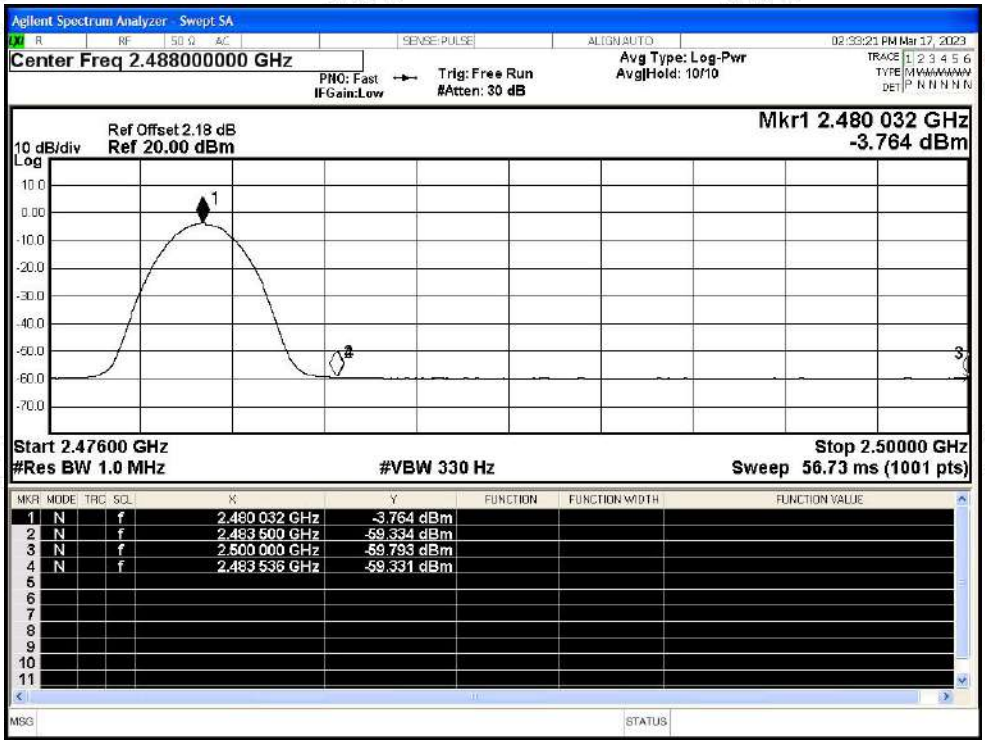
Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Peak



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