Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: MID

Test Model: KIDS707A

Environmental Conditions

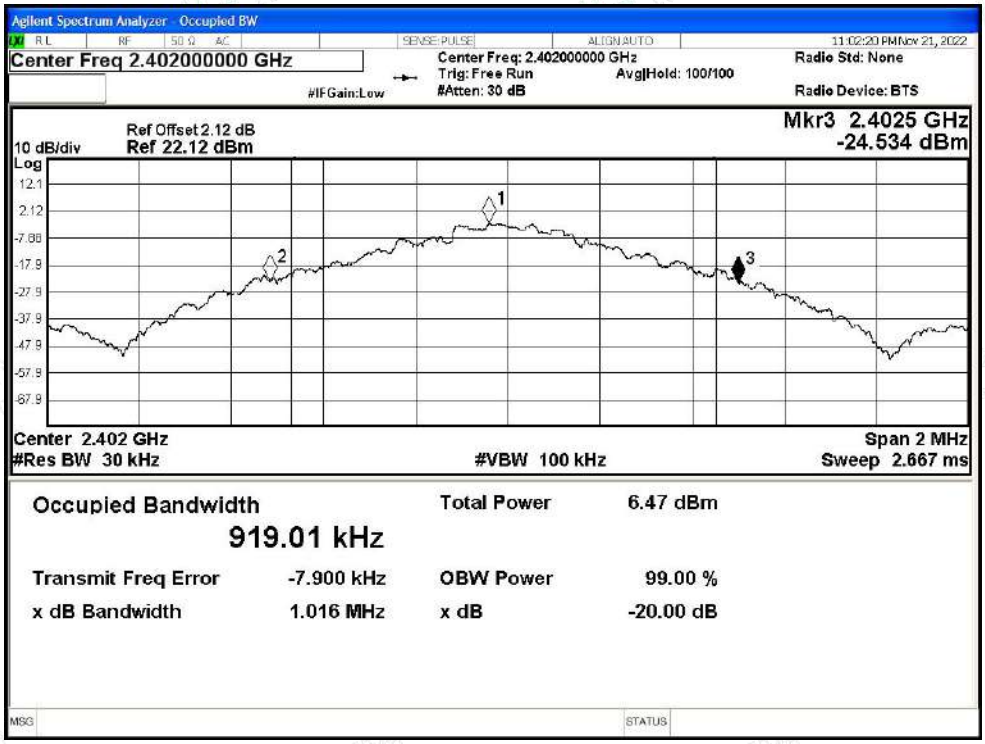
Temperature:	23.8 ° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Taylor Hu
Supervised by:	Li Huan

A.1 -20dB Bandwidth

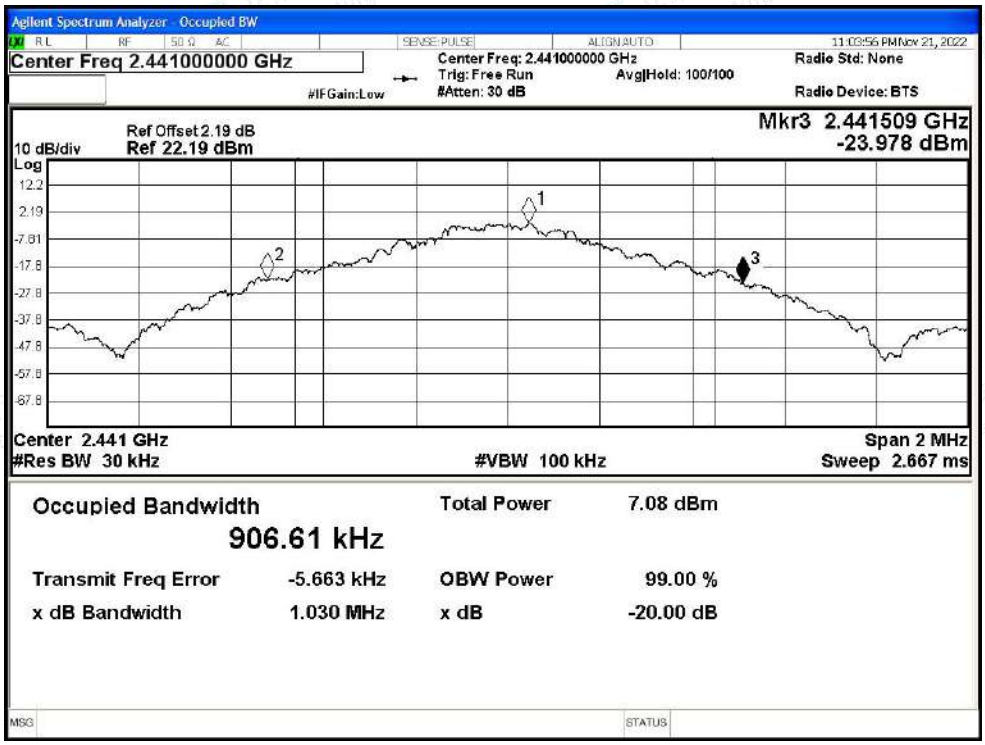
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	1.016	N/A	Pass
NVNT	1-DH5	2441	Ant1	1.03	N/A	Pass
NVNT	1-DH5	2480	Ant1	1.02	N/A	Pass
NVNT	2-DH5	2402	Ant1	1.283	N/A	Pass
NVNT	2-DH5	2441	Ant1	1.315	N/A	Pass
NVNT	2-DH5	2480	Ant1	1.282	N/A	Pass
NVNT	3-DH5	2402	Ant1	1.294	N/A	Pass
NVNT	3-DH5	2441	Ant1	1.293	N/A	Pass
NVNT	3-DH5	2480	Ant1	1.334	N/A	Pass

Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1

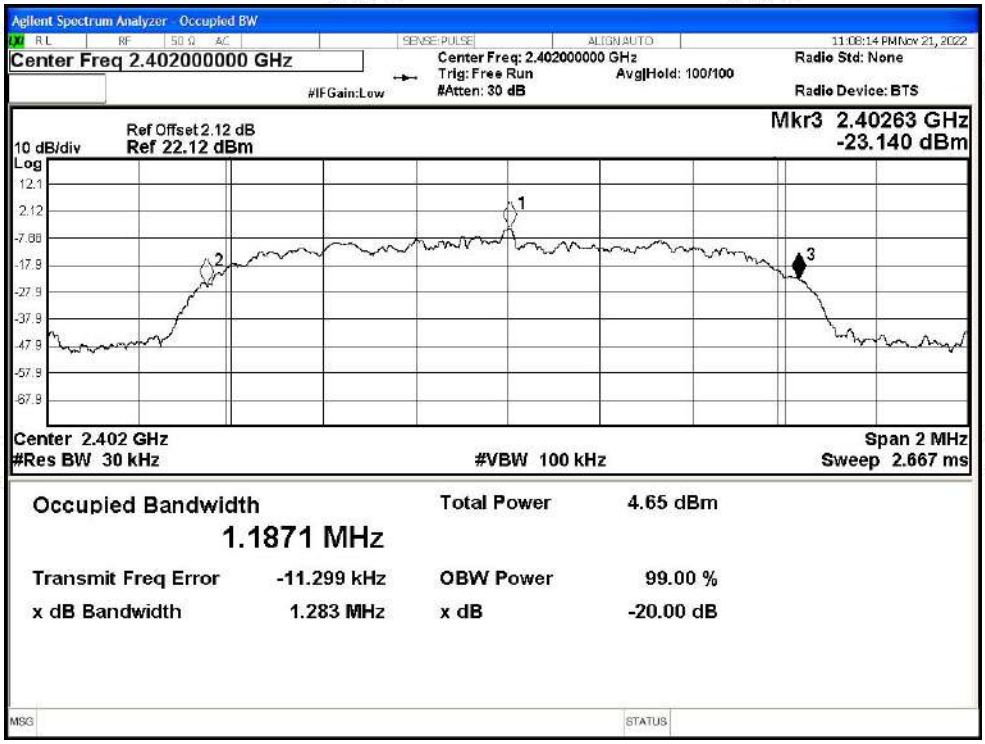


-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1

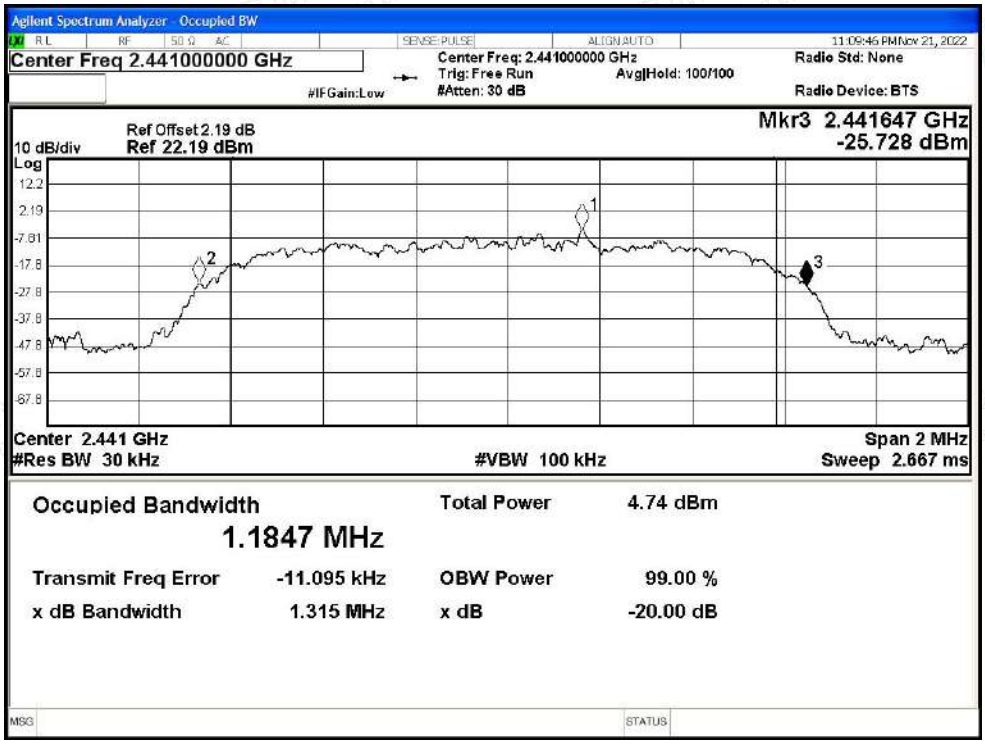


-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1

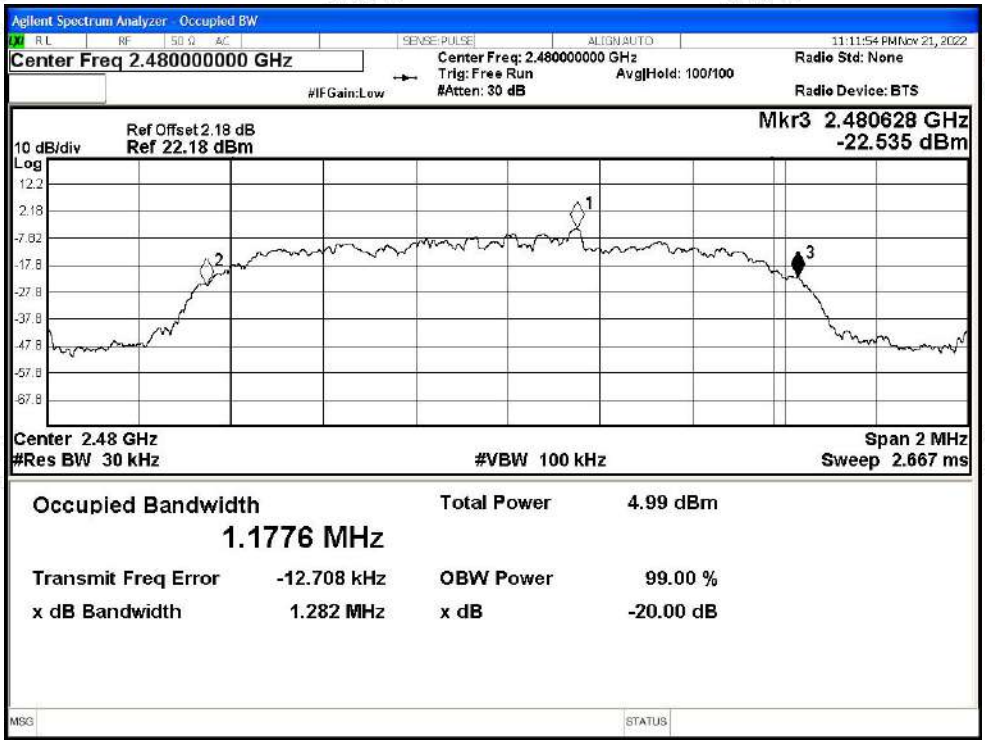
-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1



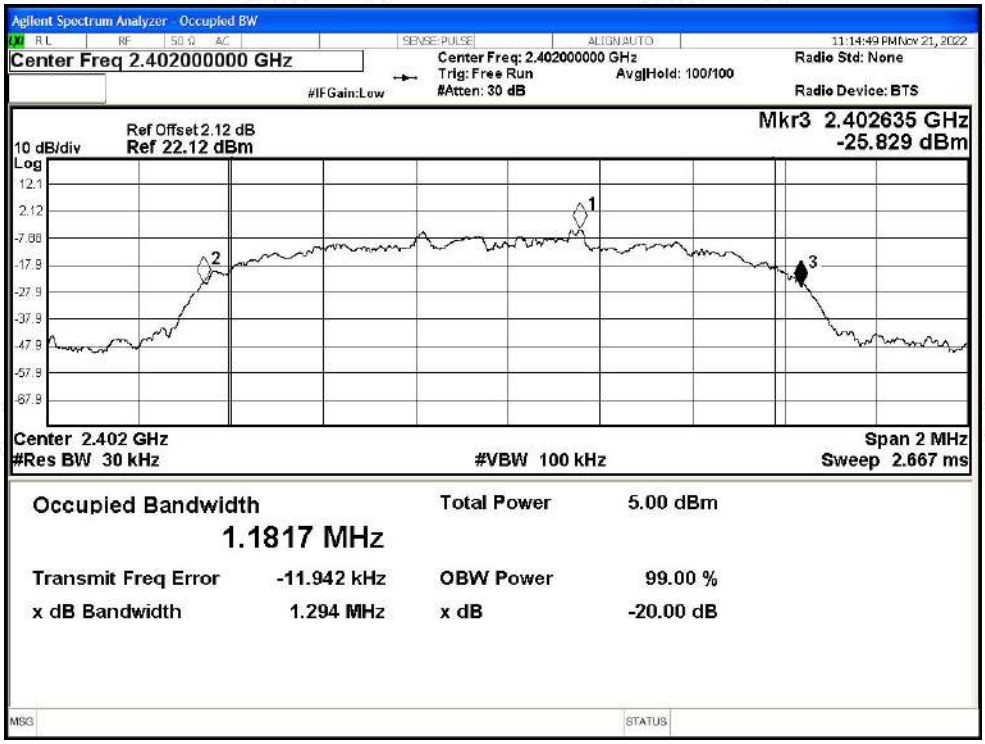
-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1



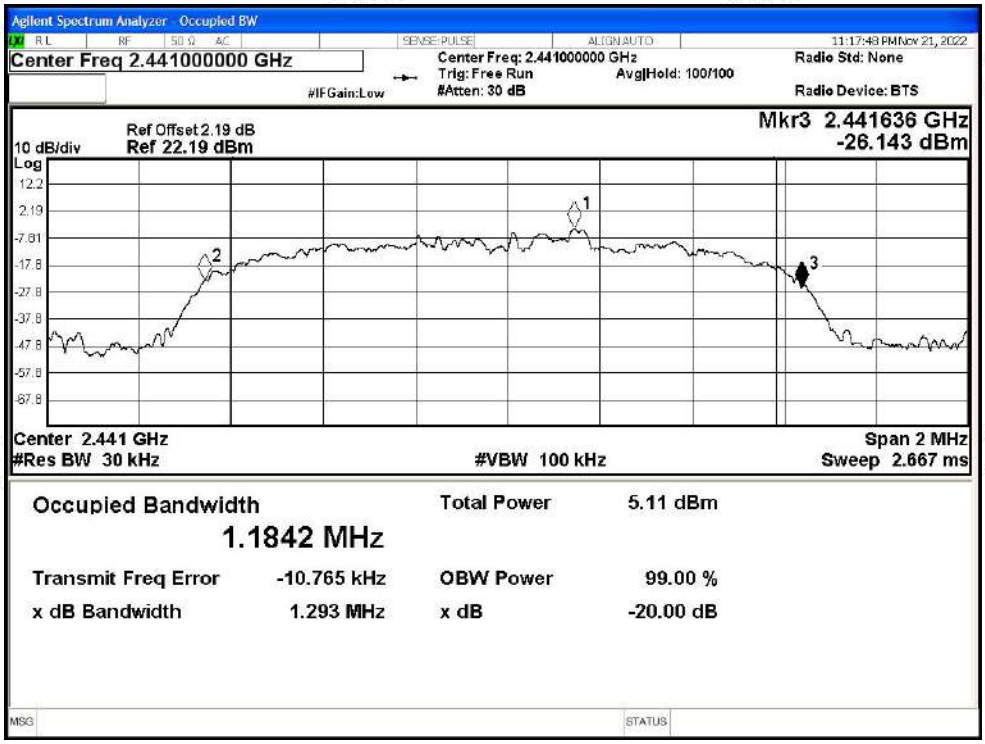
-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1



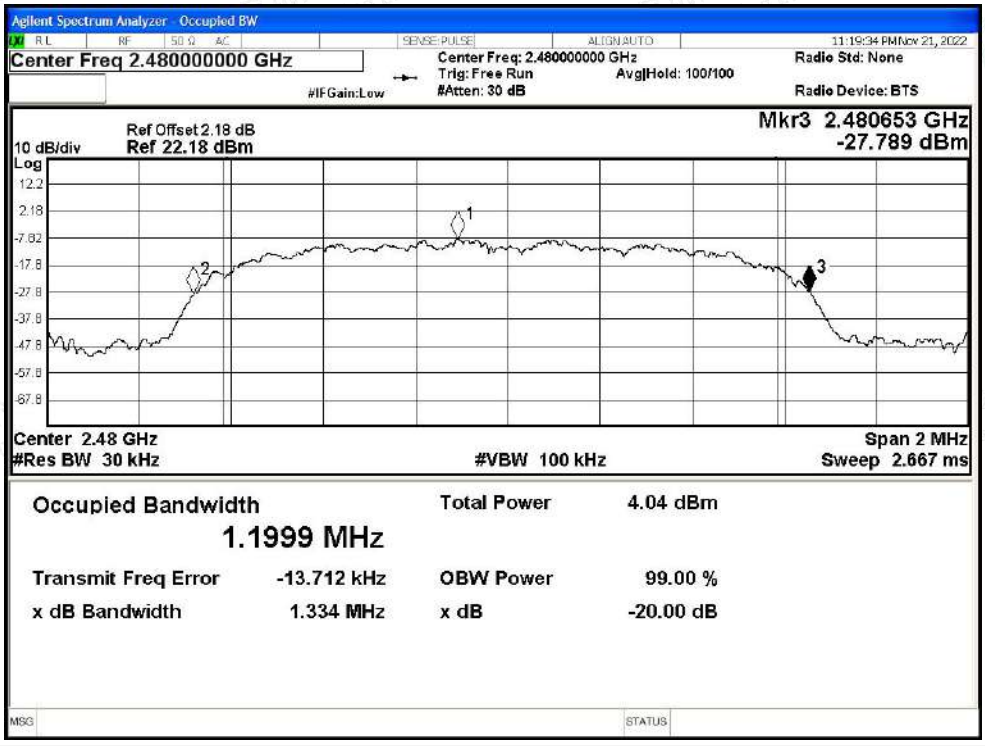
-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2480MHz Ant1

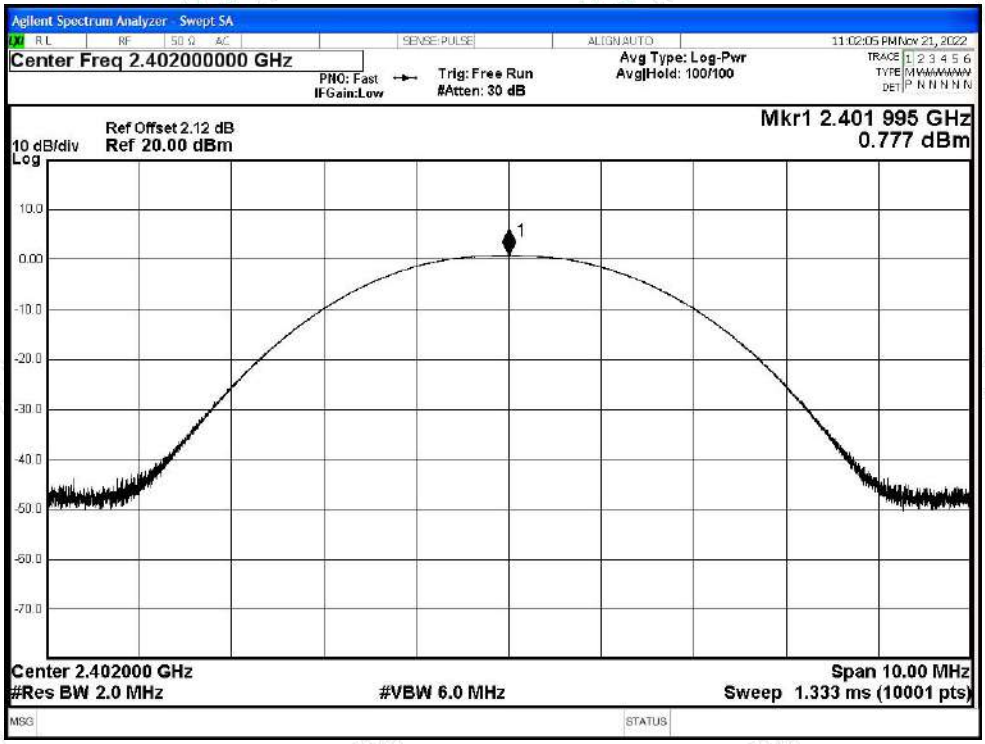


A.2 Maximum Conducted Output Power

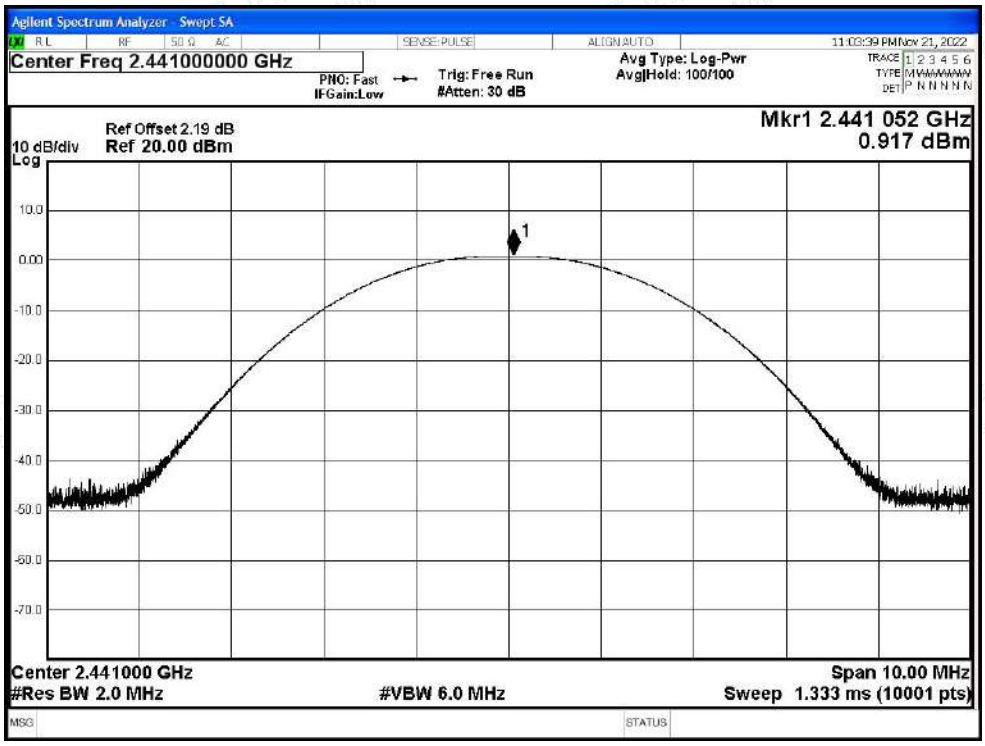
Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	0.78	21	Pass
NVNT	1-DH5	2441	Ant1	0.92	21	Pass
NVNT	1-DH5	2480	Ant1	0.6	21	Pass
NVNT	2-DH5	2402	Ant1	0.48	21	Pass
NVNT	2-DH5	2441	Ant1	0.68	21	Pass
NVNT	2-DH5	2480	Ant1	0.36	21	Pass
NVNT	3-DH5	2402	Ant1	0.54	21	Pass
NVNT	3-DH5	2441	Ant1	0.7	21	Pass
NVNT	3-DH5	2480	Ant1	0.39	21	Pass

Test Graphs

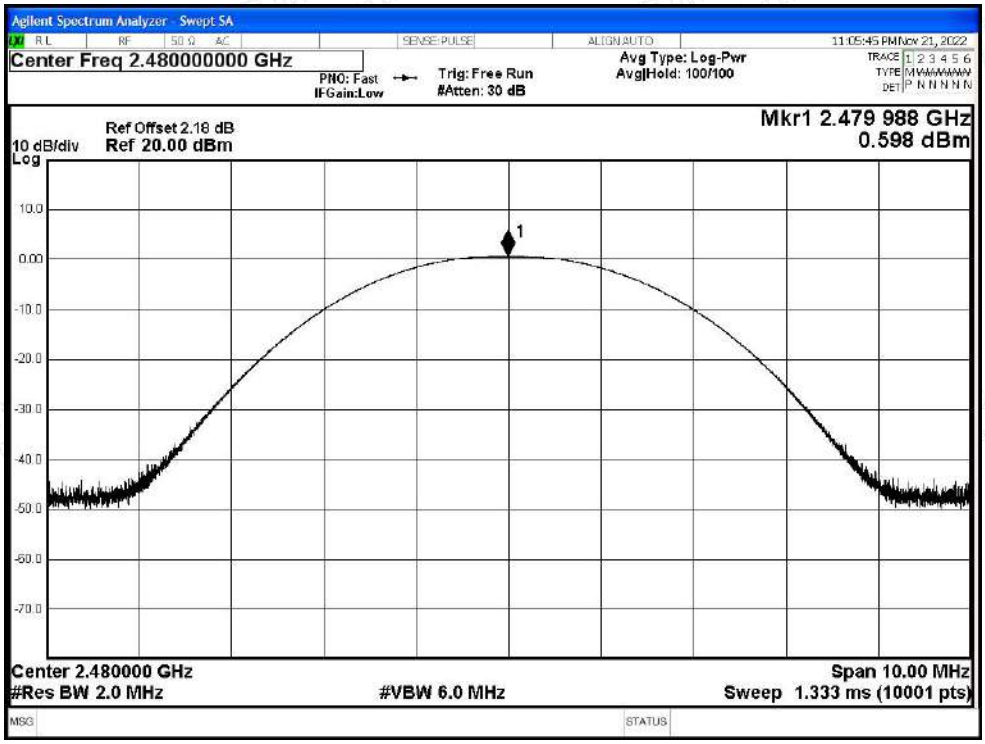
Power NVNT 1-DH5 2402MHz Ant1



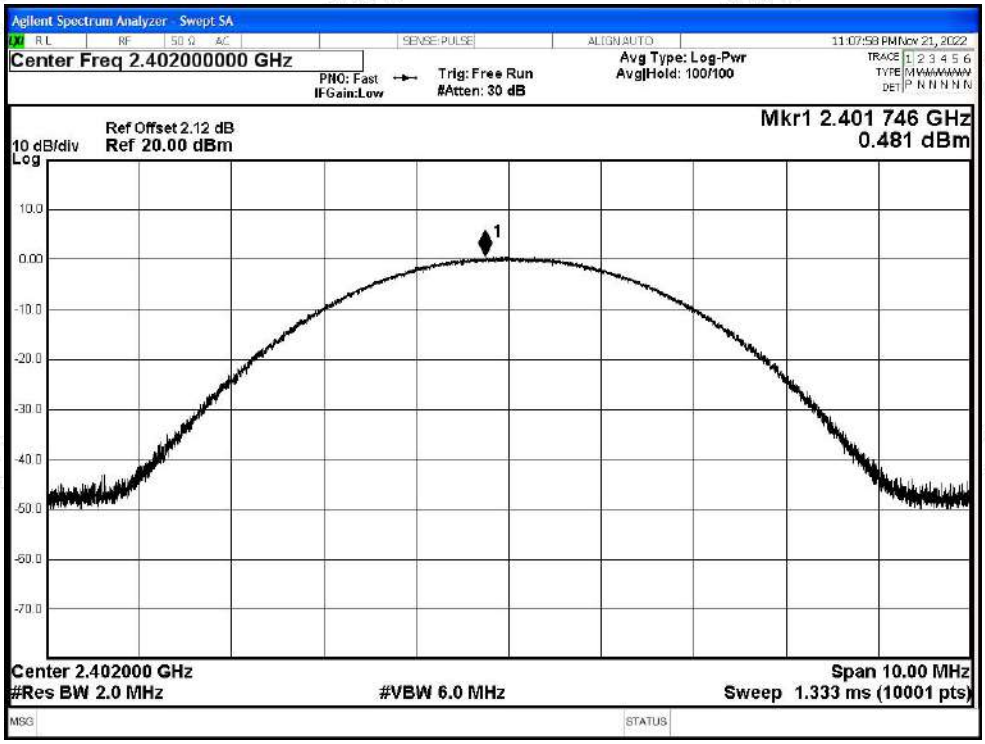
Power NVNT 1-DH5 2441MHz Ant1



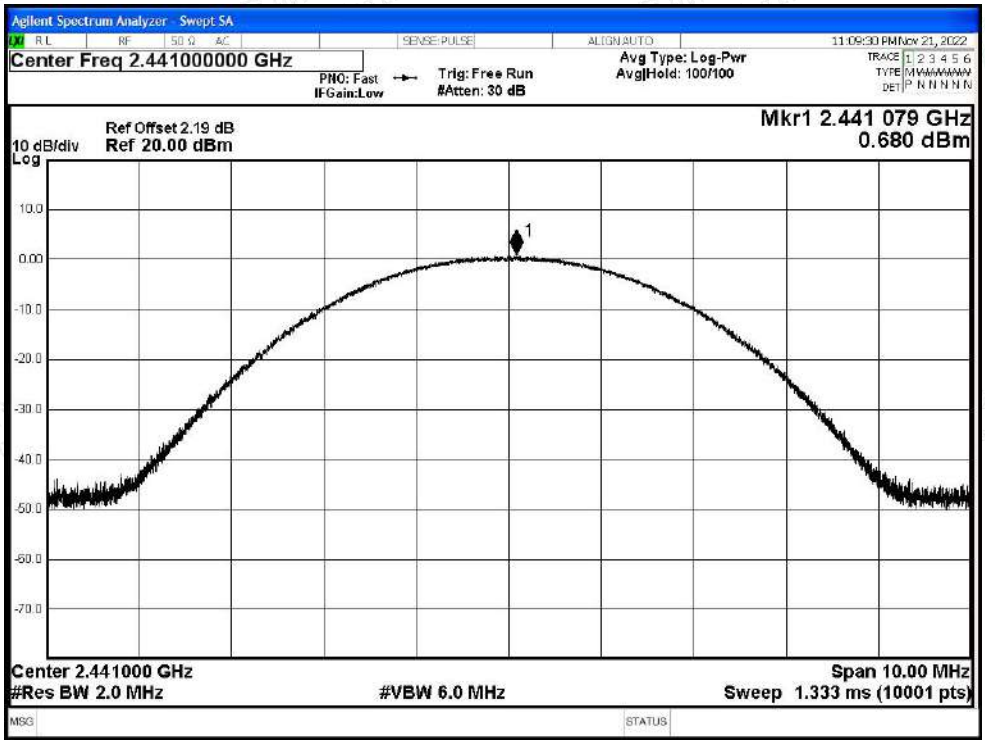
Power NVNT 1-DH5 2480MHz Ant1



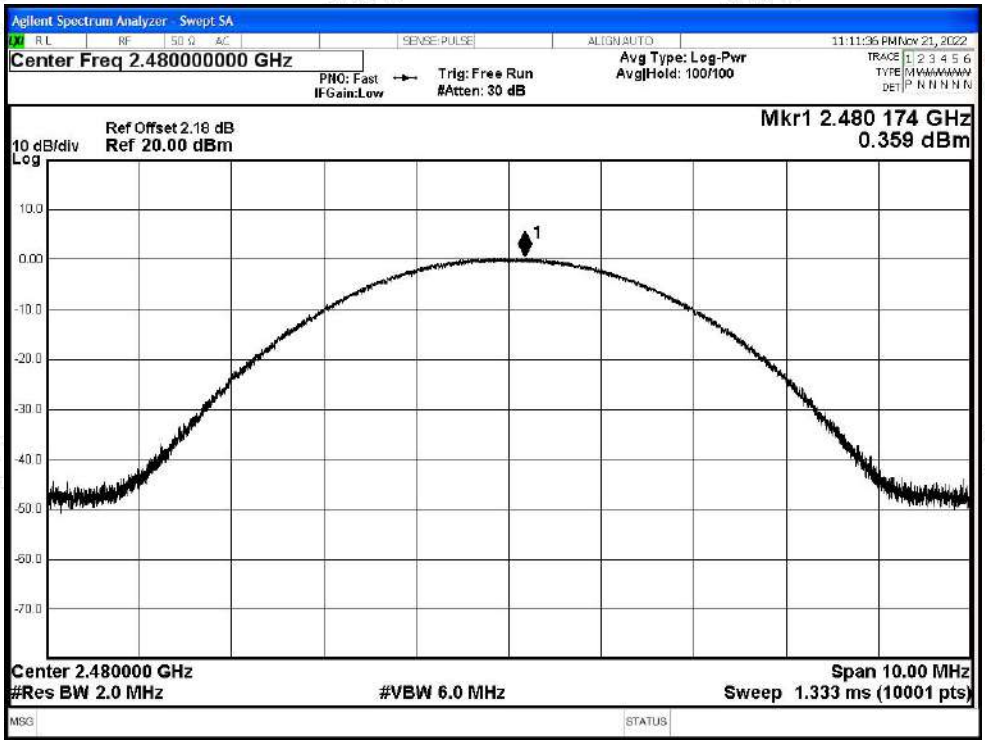
Power NVNT 2-DH5 2402MHz Ant1



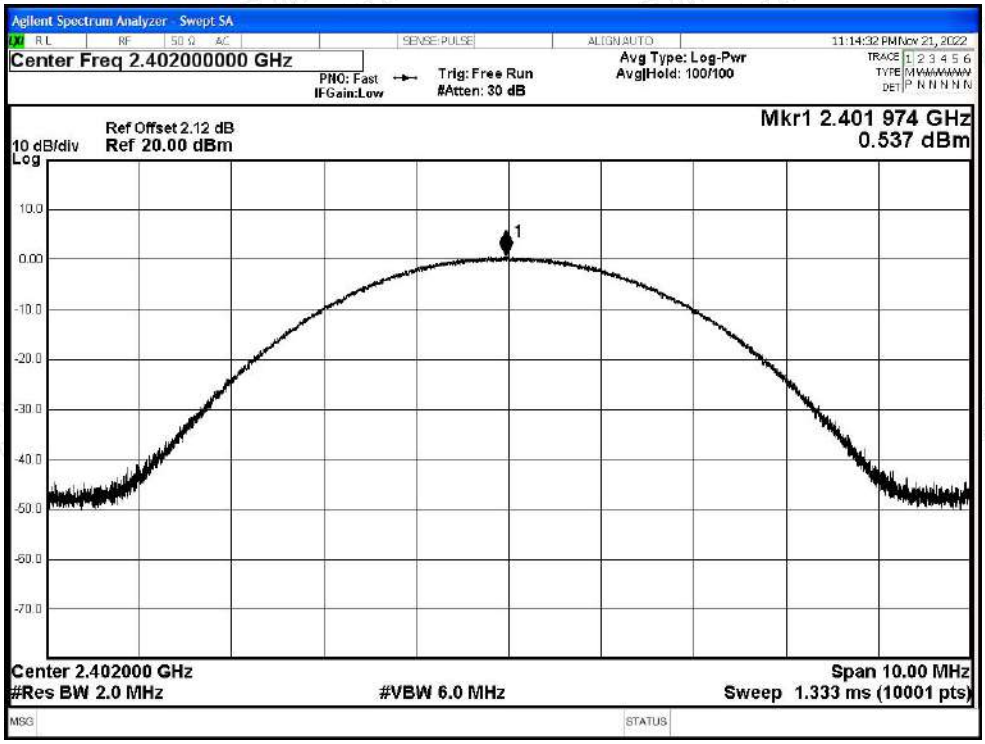
Power NVNT 2-DH5 2441MHz Ant1



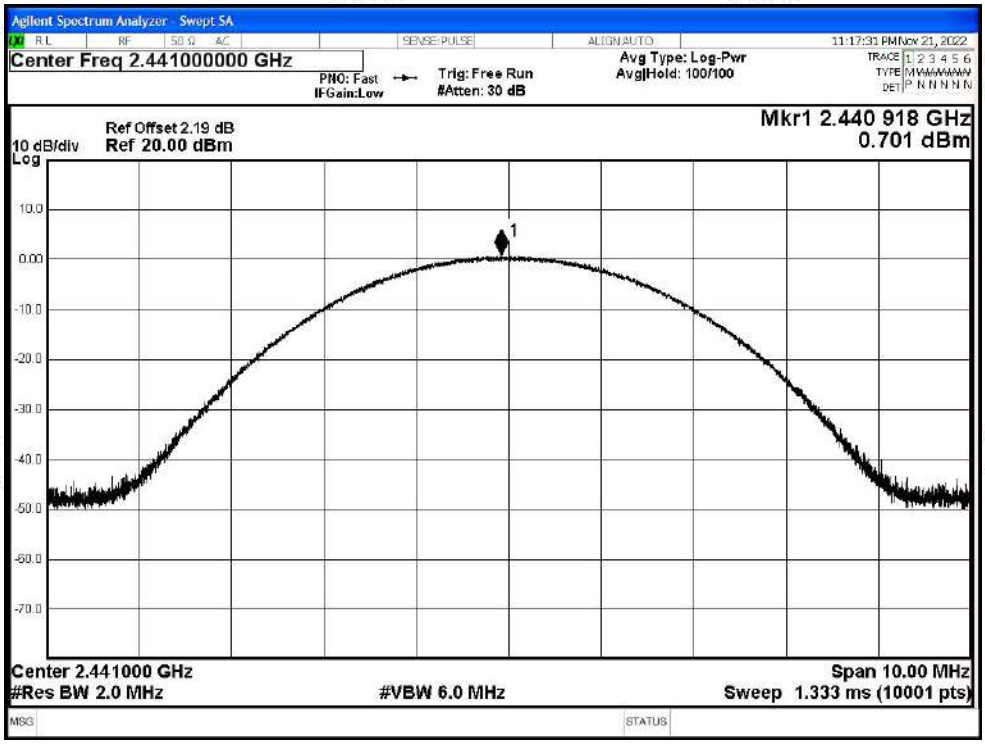
Power NVNT 2-DH5 2480MHz Ant1



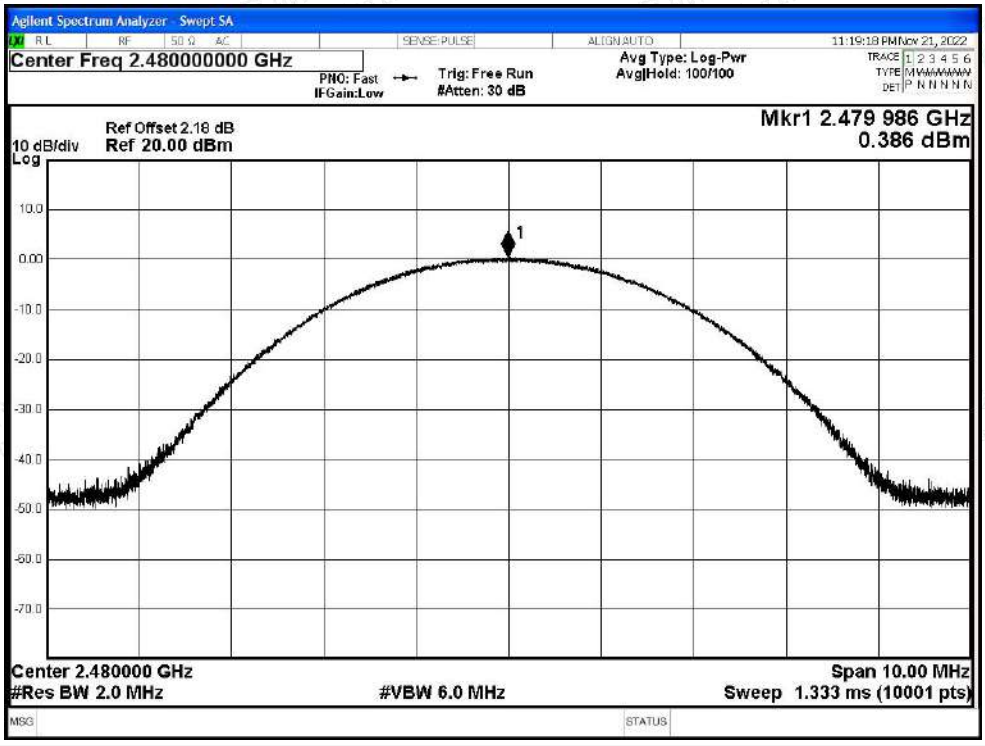
Power NVNT 3-DH5 2402MHz Ant1



Power NVNT 3-DH5 2441MHz Ant1



Power NVNT 3-DH5 2480MHz Ant1

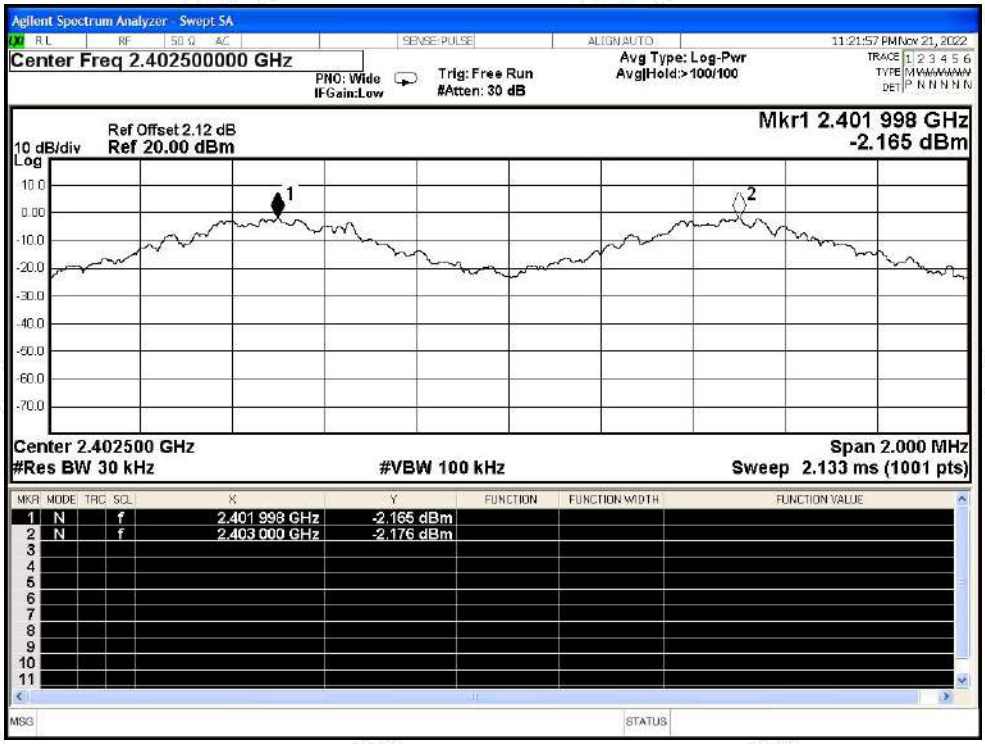


A.3 Carrier Frequencies Separation

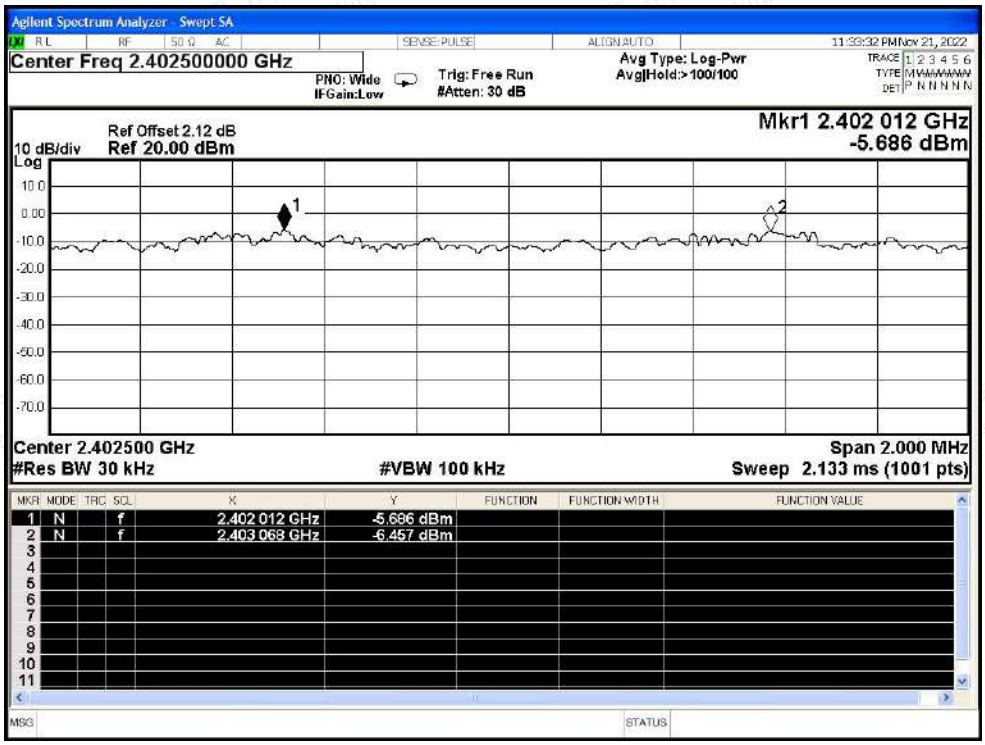
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2401.998	2403	1.002	0.687	Pass
NVNT	2-DH5	Ant1	2402.012	2403.068	1.056	0.877	Pass
NVNT	3-DH5	Ant1	2402.014	2402.994	0.98	0.889	Pass

Test Graphs

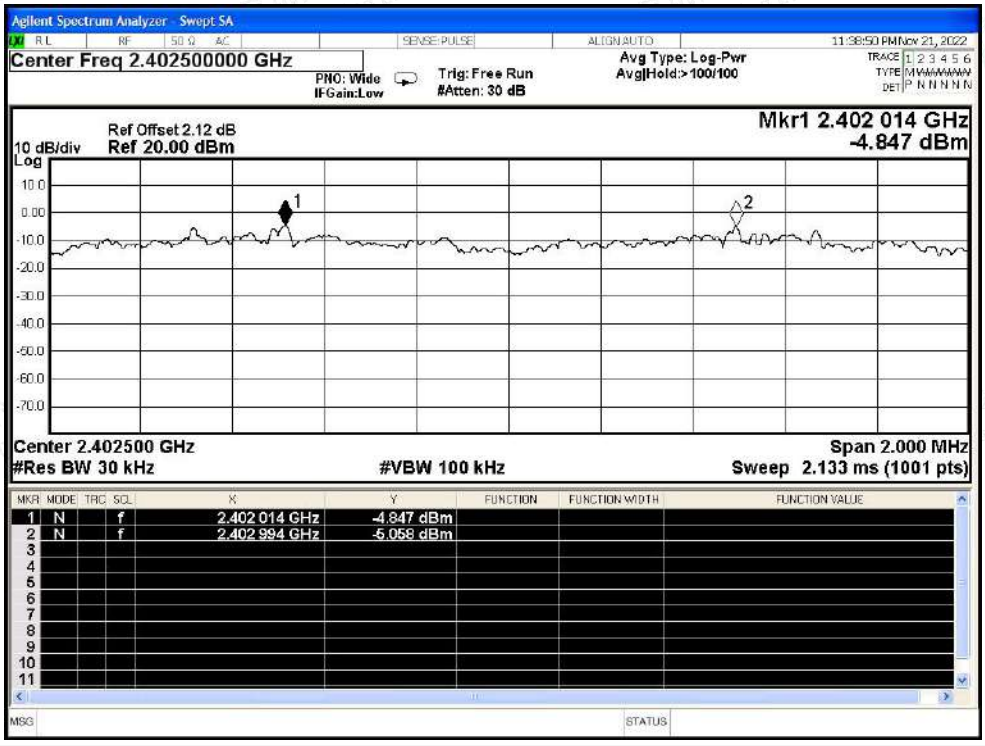
CFS NVNT 1-DH5 2402MHz Ant1



CFS NVNT 2-DH5 2402MHz Ant1



CFS NVNT 3-DH5 2402MHz Ant1

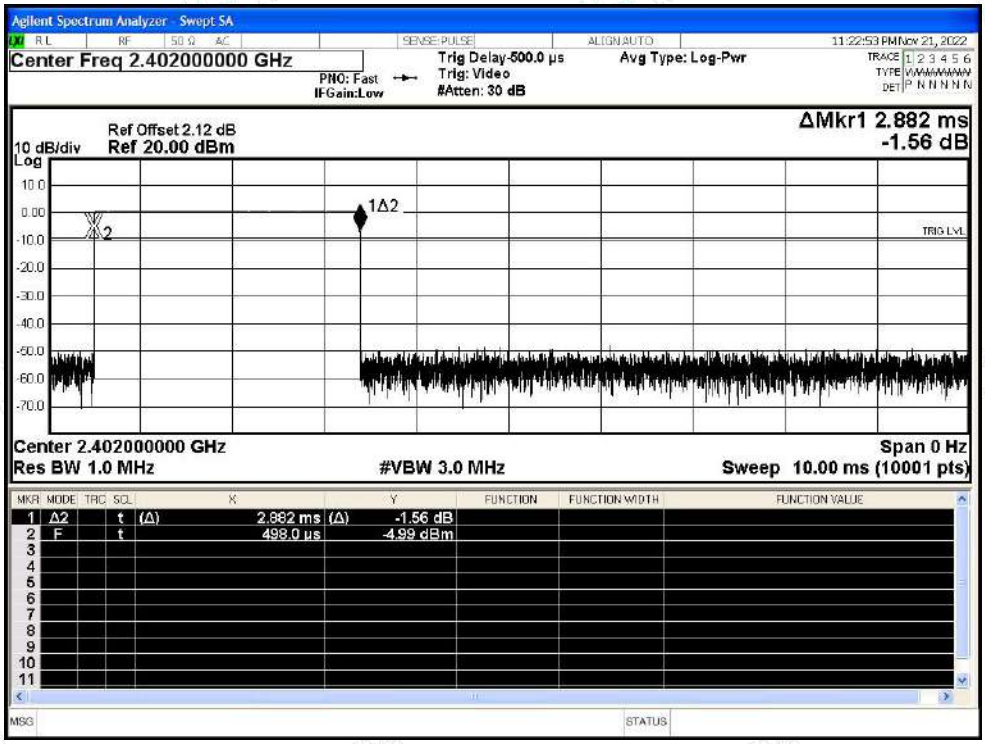


A.4 Dwell Time

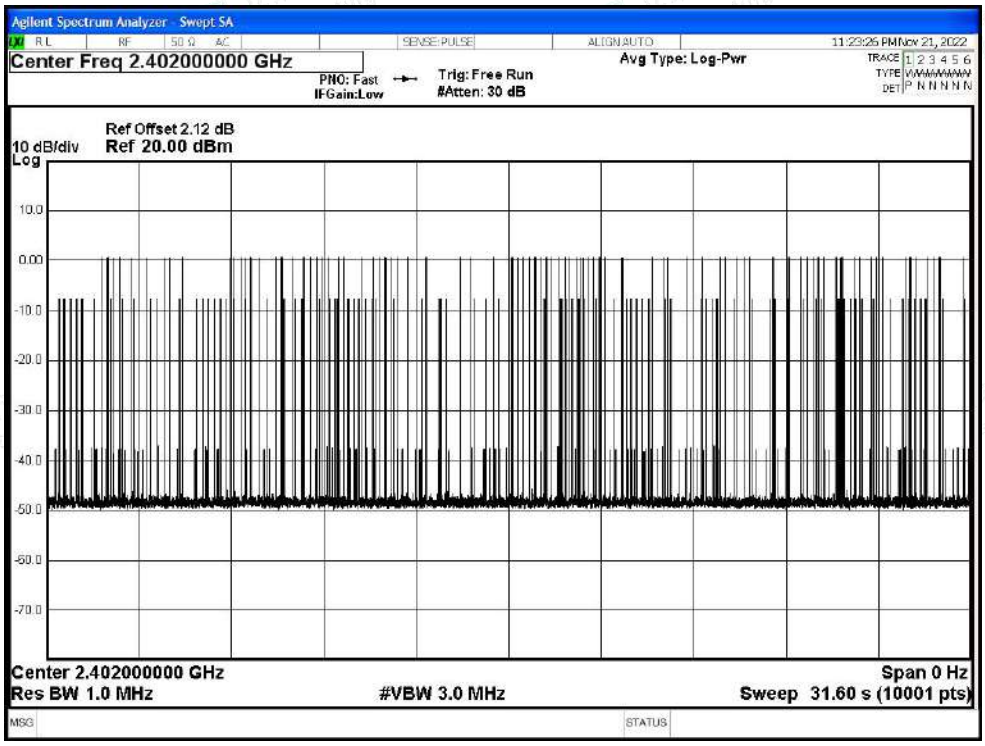
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH5	2402	Ant1	2.882	296.846	103	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.881	290.981	101	31600	400	Pass
NVNT	3-DH5	2402	Ant1	2.886	311.688	108	31600	400	Pass

Test Graphs

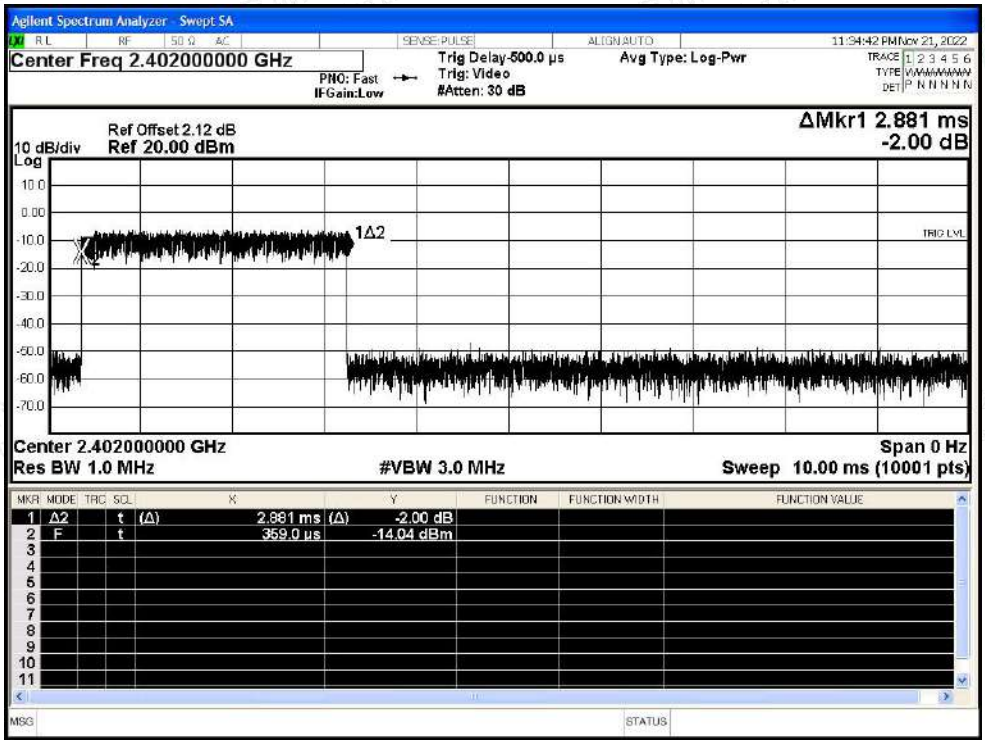
Dwell NVNT 1-DH5 2402MHz Ant1 One Burst



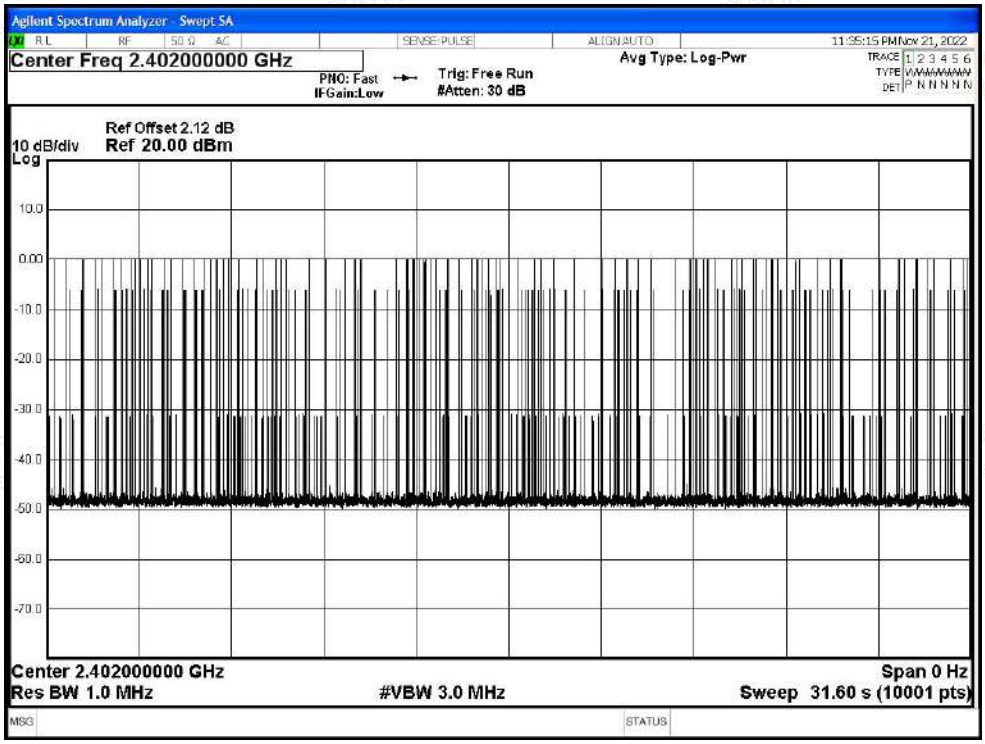
Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated



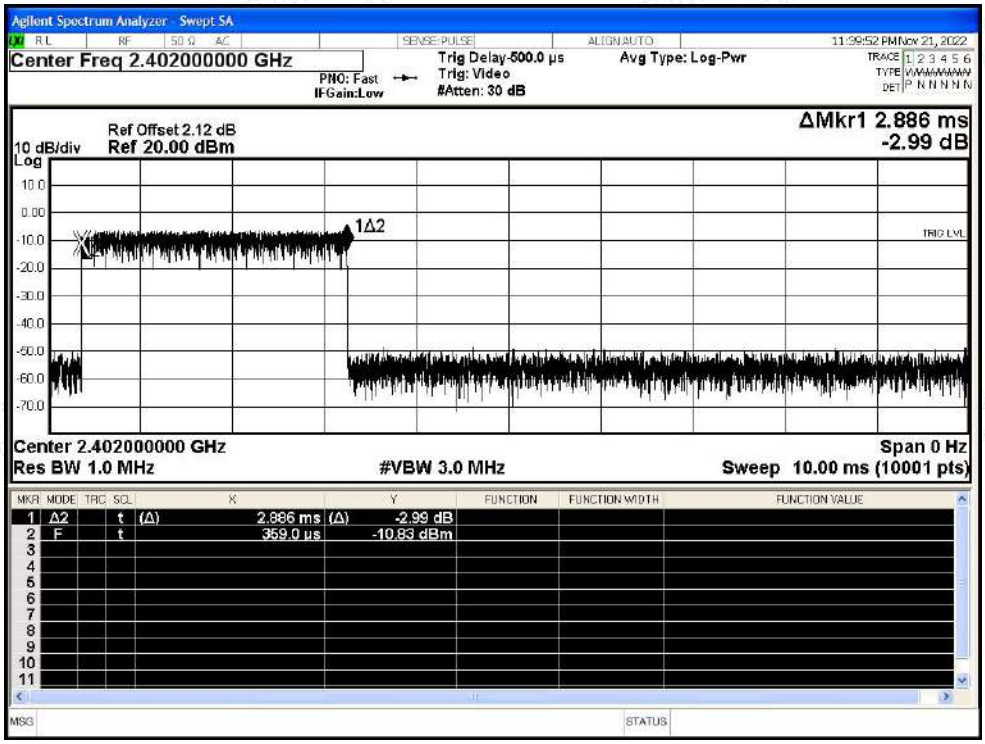
Dwell NVNT 2-DH5 2402MHz Ant1 One Burst



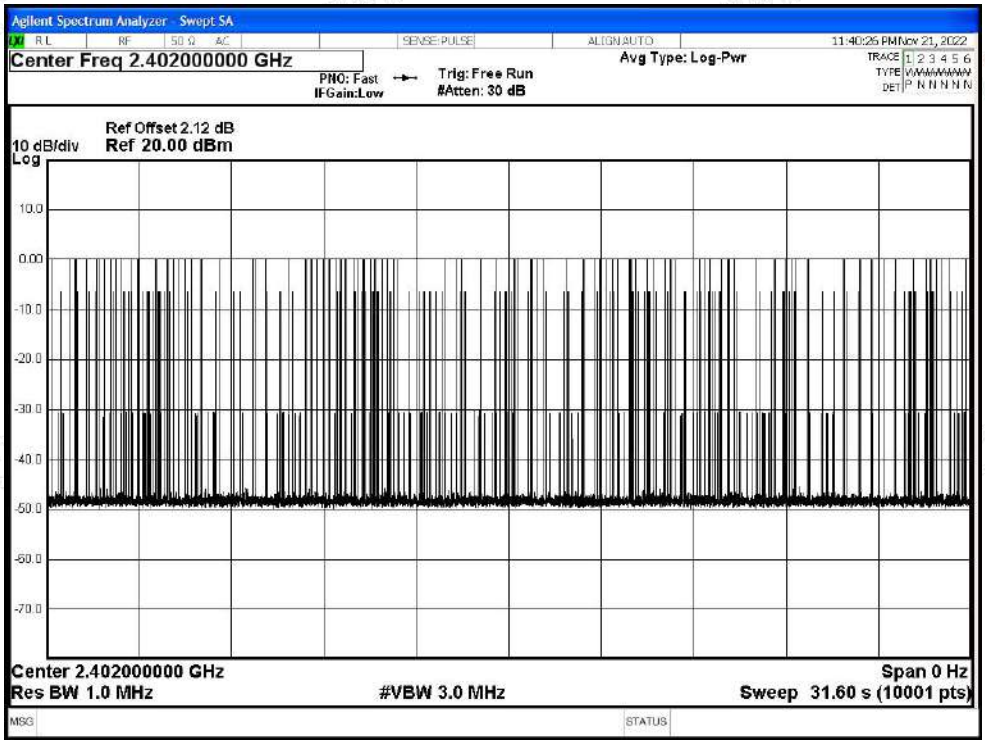
Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated



Dwell NVNT 3-DH5 2402MHz Ant1 One Burst



Dwell NVNT 3-DH5 2402MHz Ant1 Accumulated

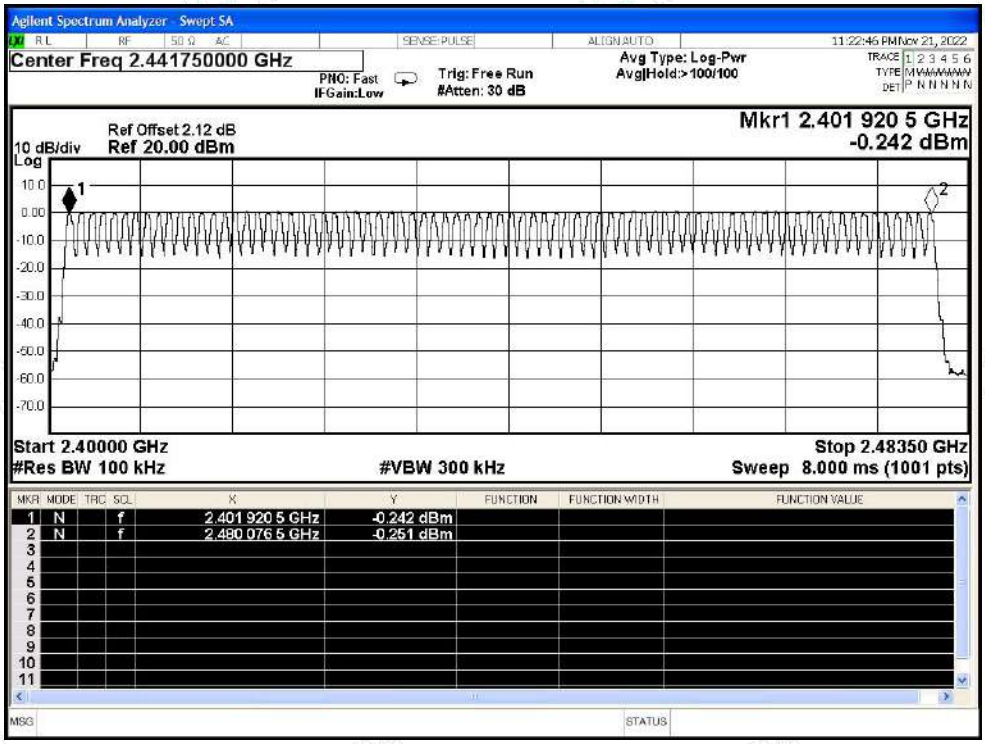


A.5 Number of Hopping Channel

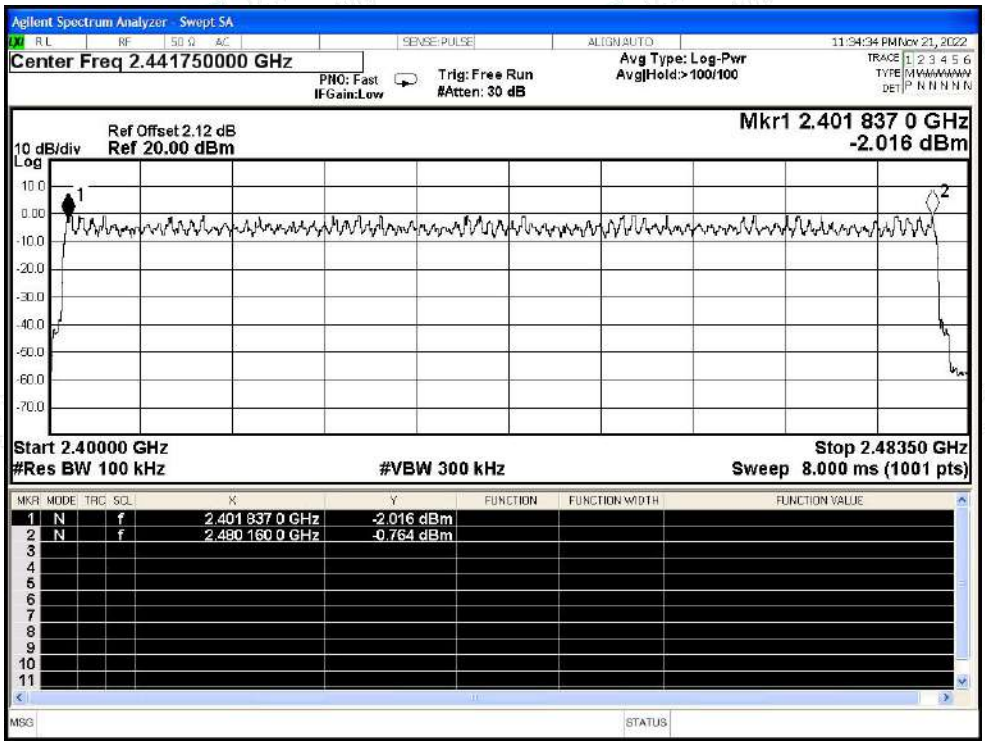
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH5	Ant1	79	15	Pass
NVNT	2-DH5	Ant1	79	15	Pass
NVNT	3-DH5	Ant1	79	15	Pass

Test Graphs

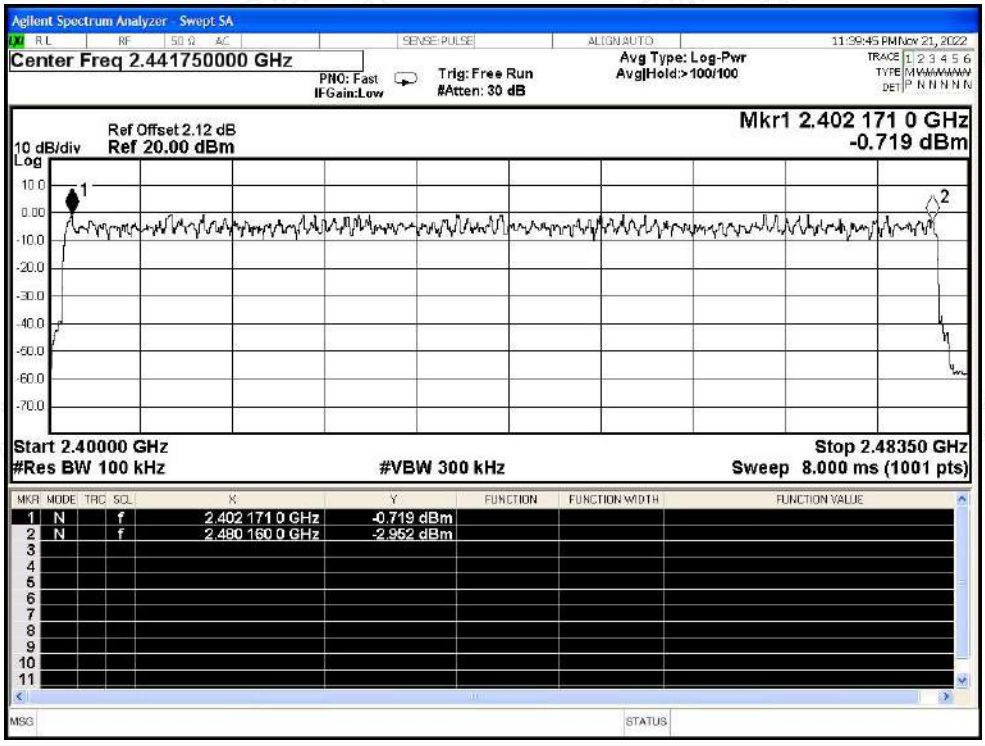
Hopping No. NVNT 1-DH5 2402MHz Ant1



Hopping No. NVNT 2-DH5 2402MHz Ant1



Hopping No. NVNT 3-DH5 2402MHz Ant1

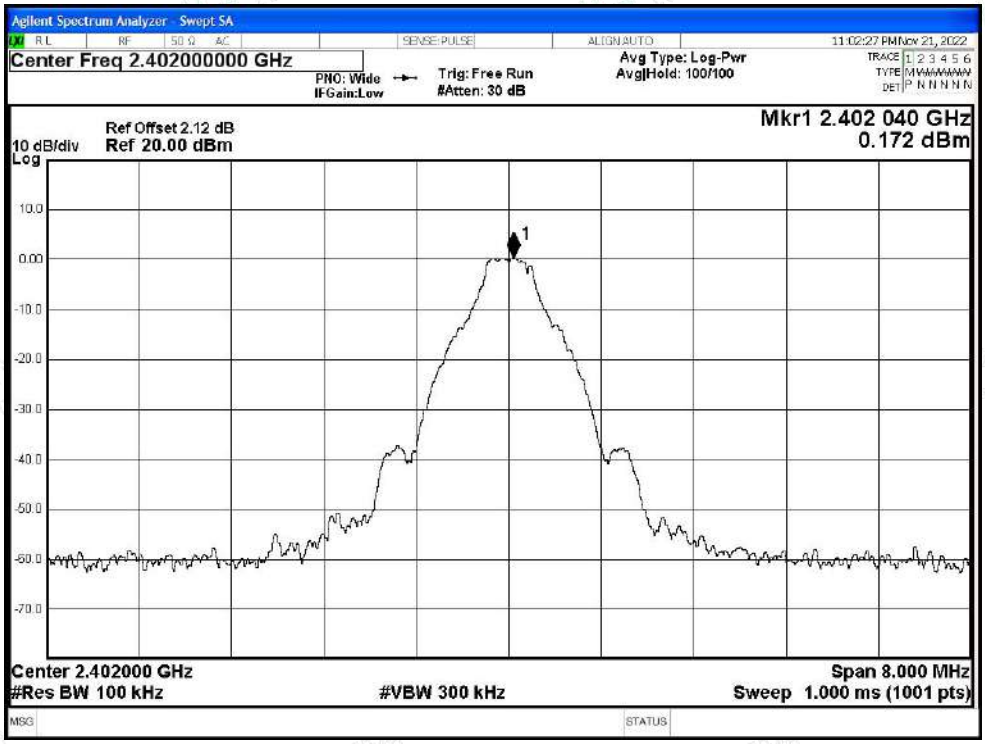


A.6 Band Edge

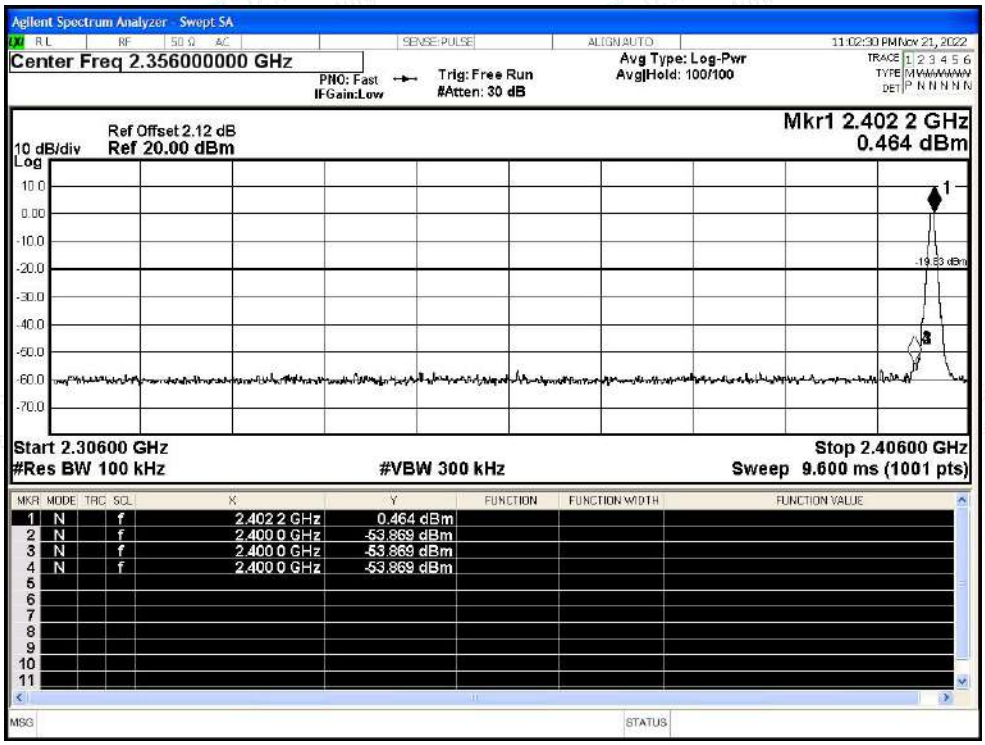
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-54.04	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-57.85	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-51.43	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-56.17	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-50.92	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-53.46	-20	Pass

Test Graphs

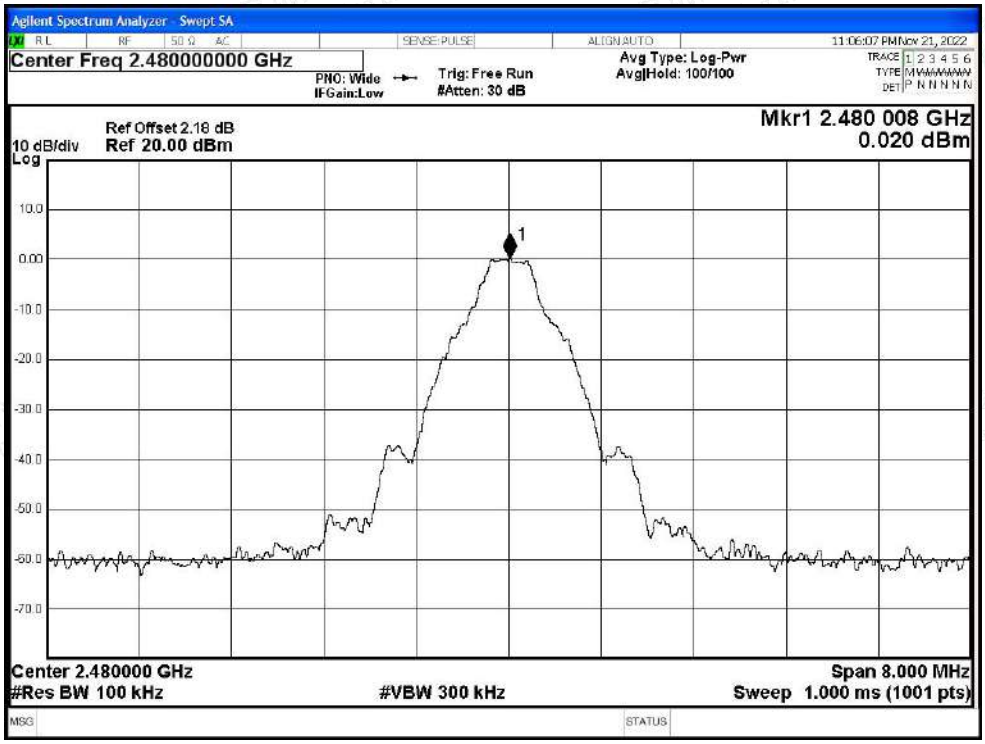
Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Ref



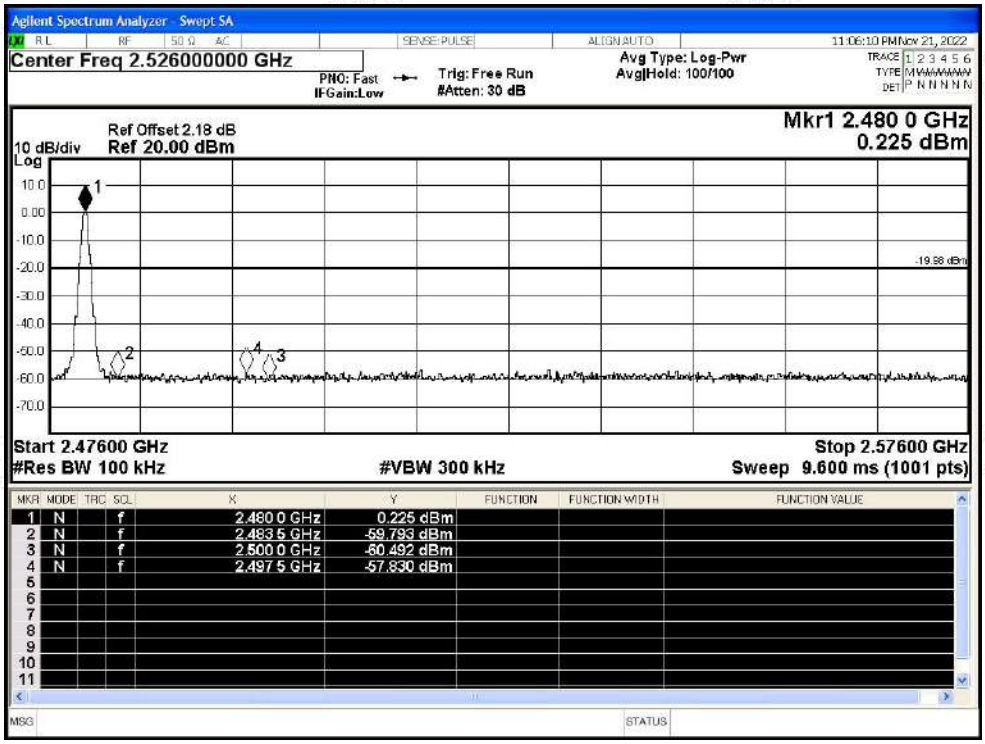
Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission



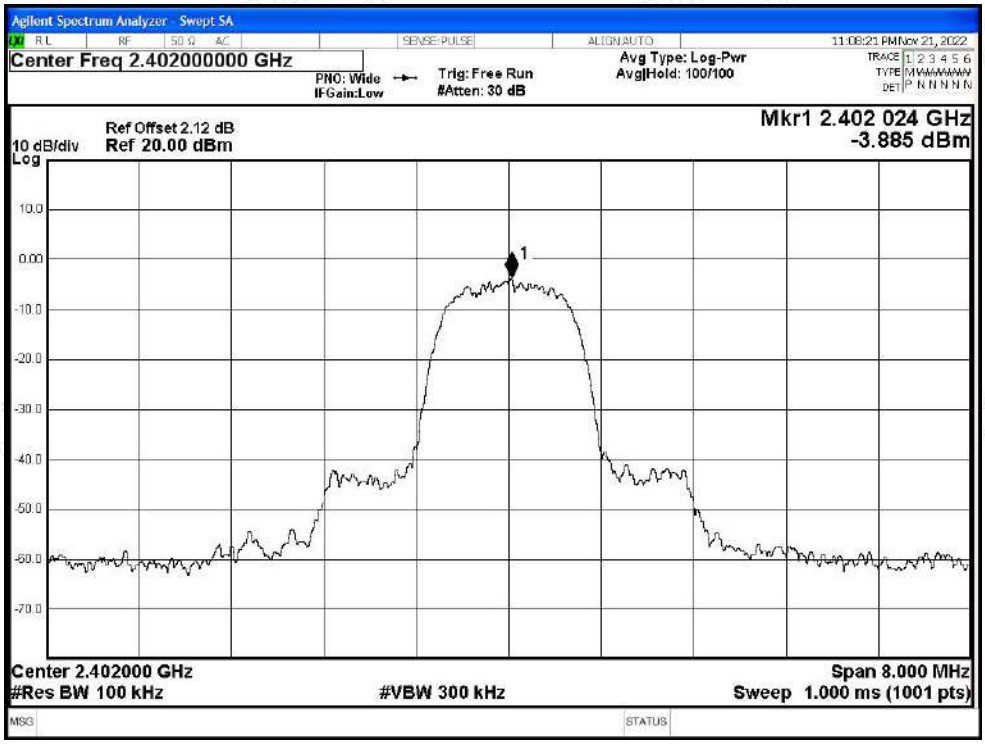
Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref



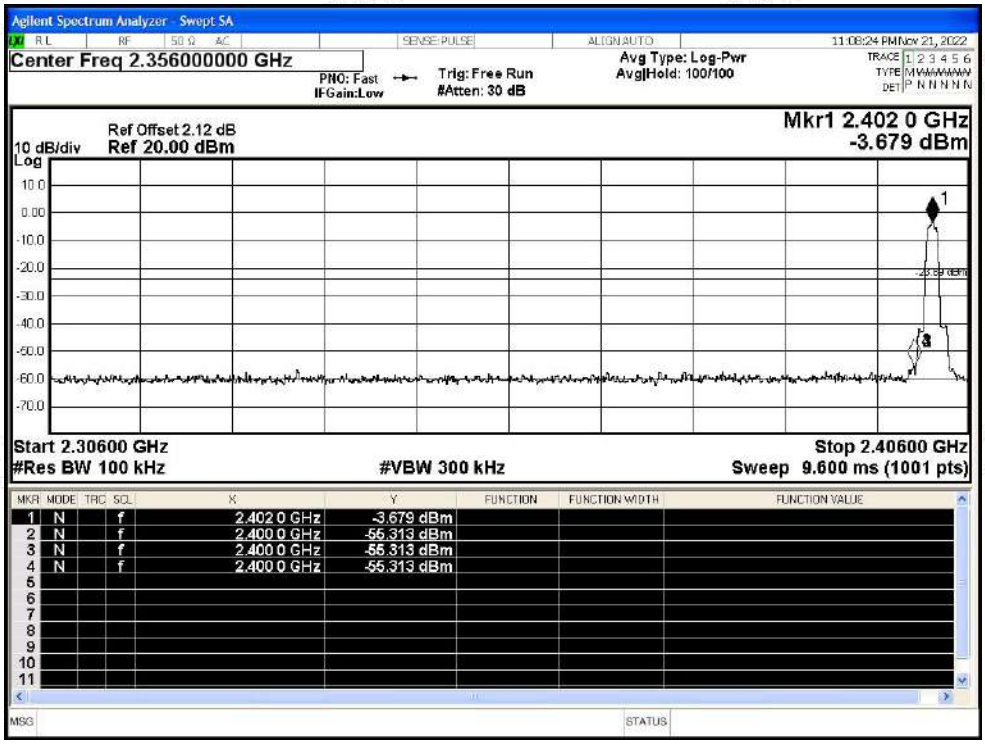
Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission



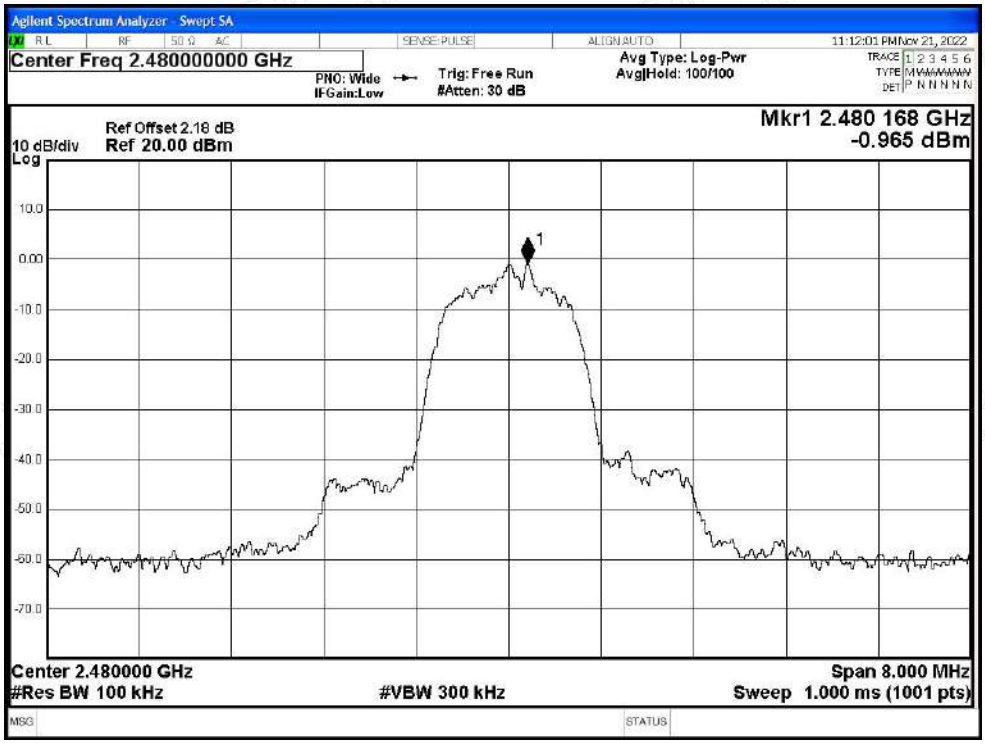
Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref



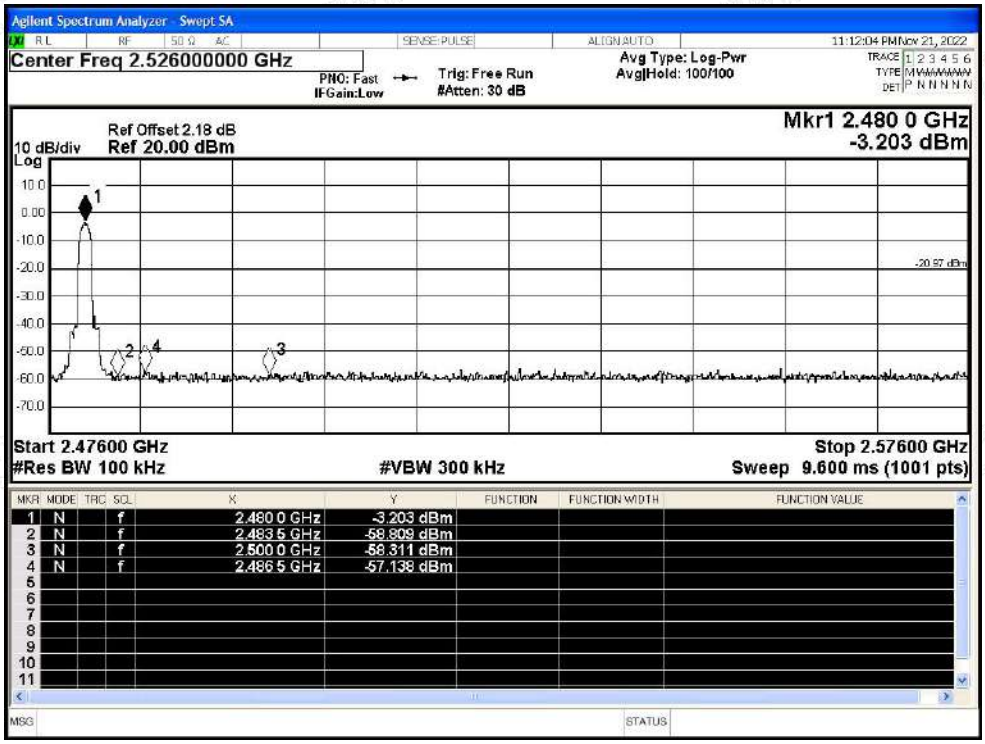
Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission



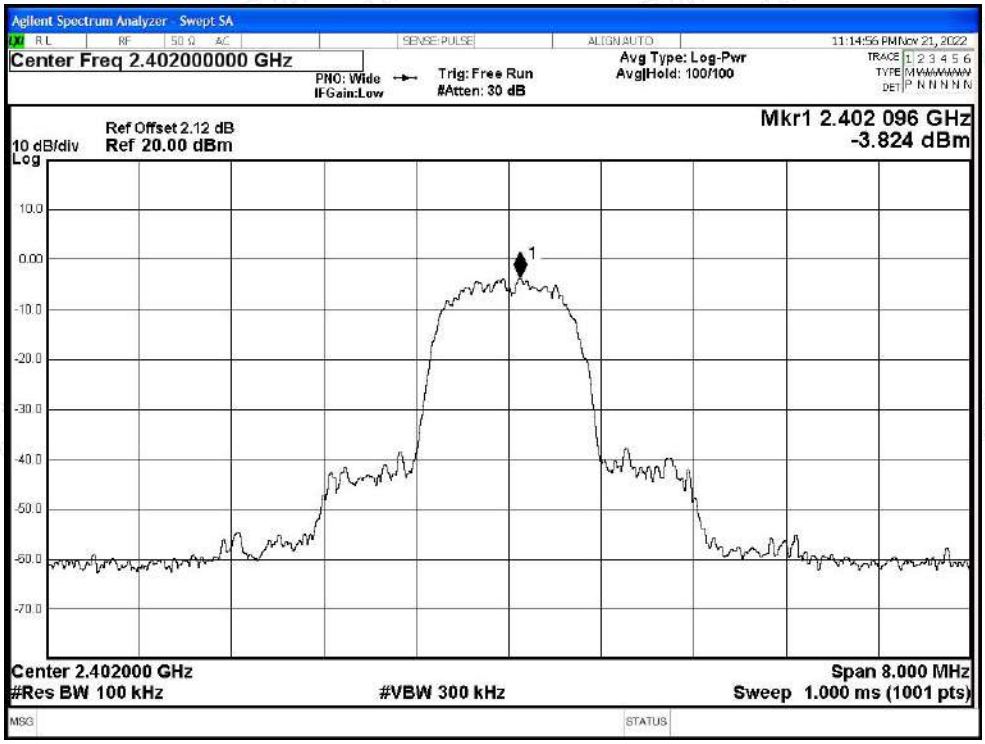
Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref



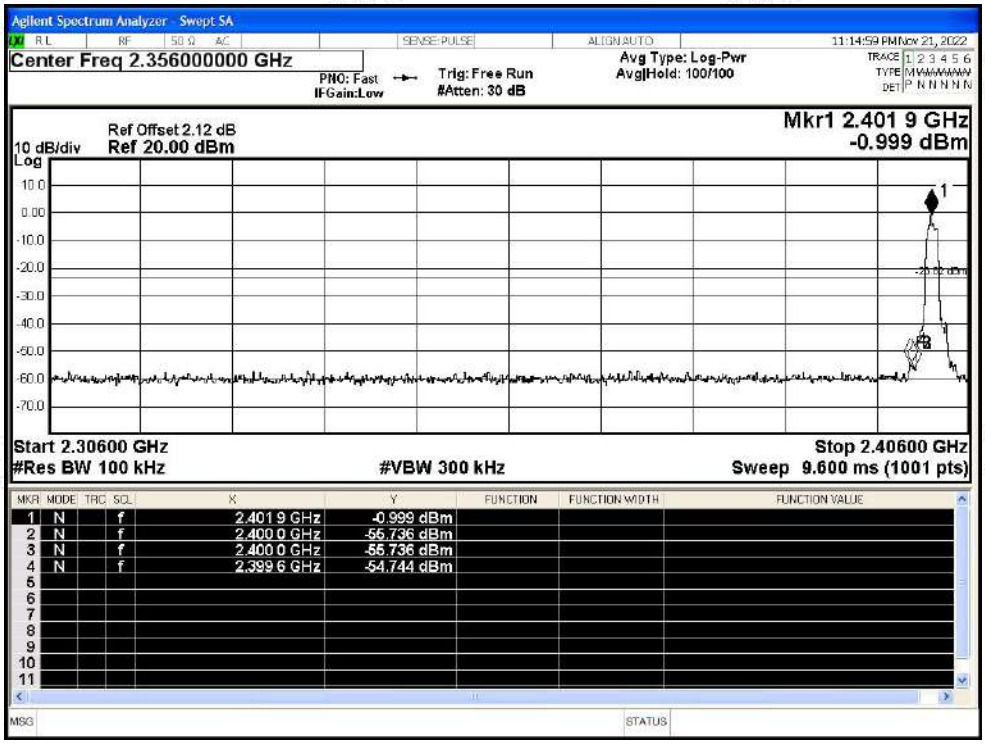
Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Emission



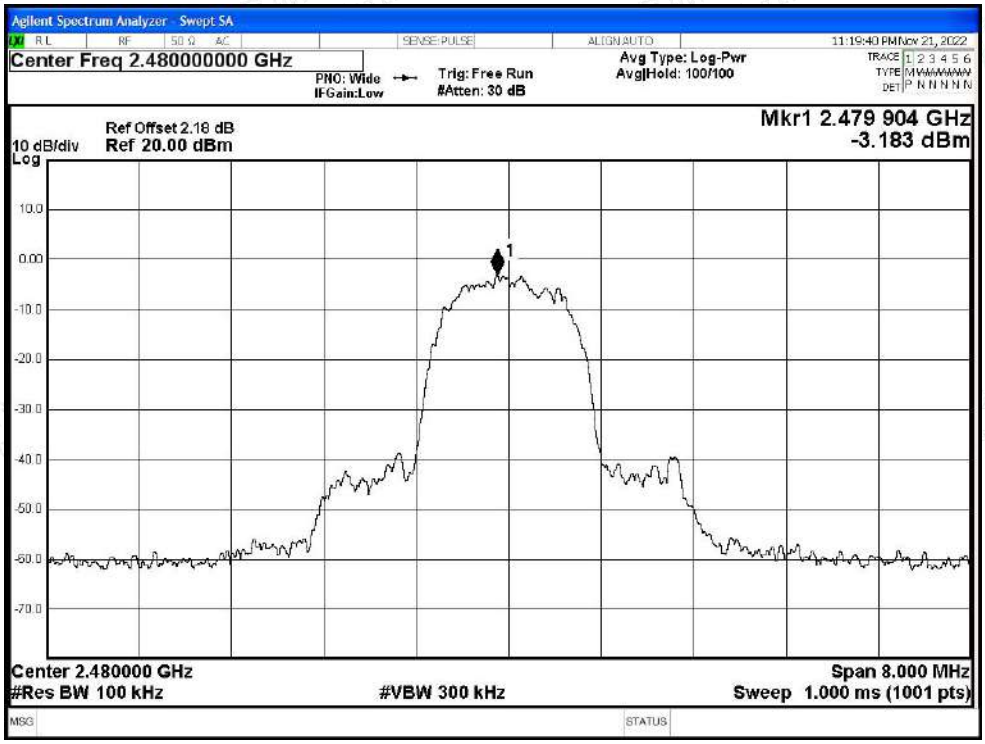
Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Ref



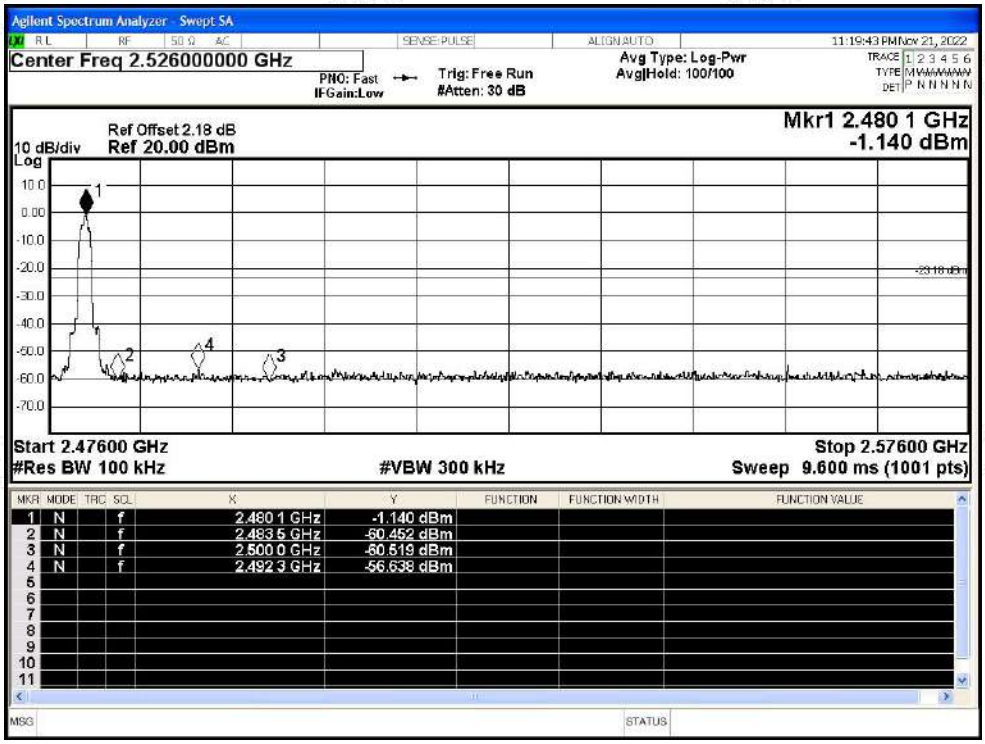
Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Emission



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



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

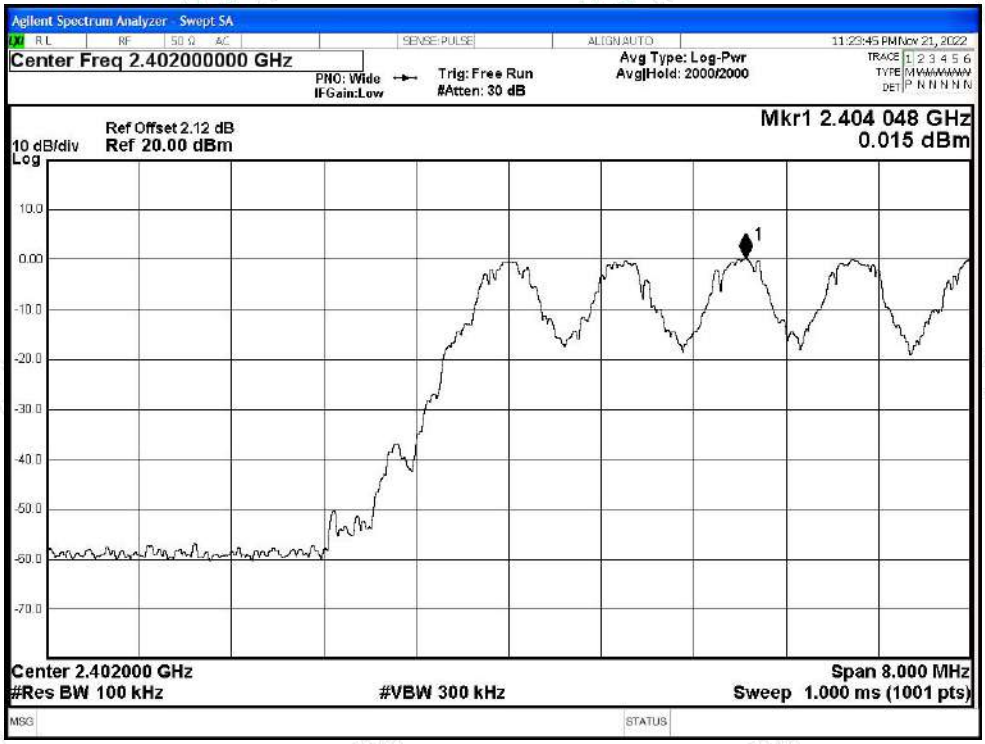


(Hopping)

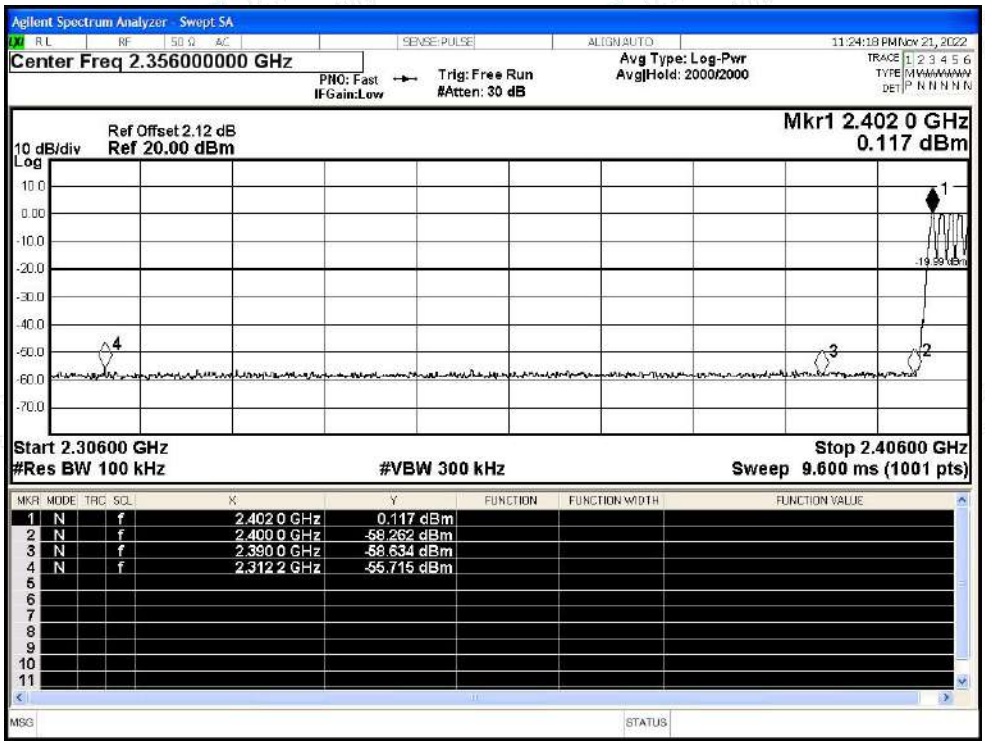
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-55.73	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-55.54	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-55.05	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-54.26	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-54.28	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-55.1	-20	Pass

Test Graphs

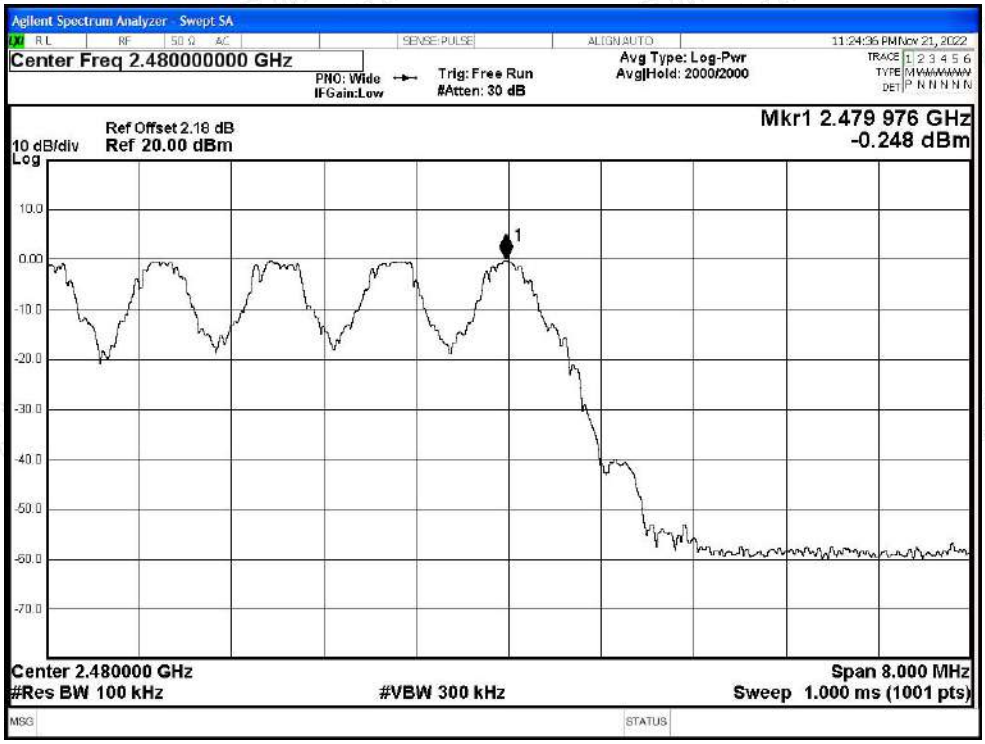
Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Ref



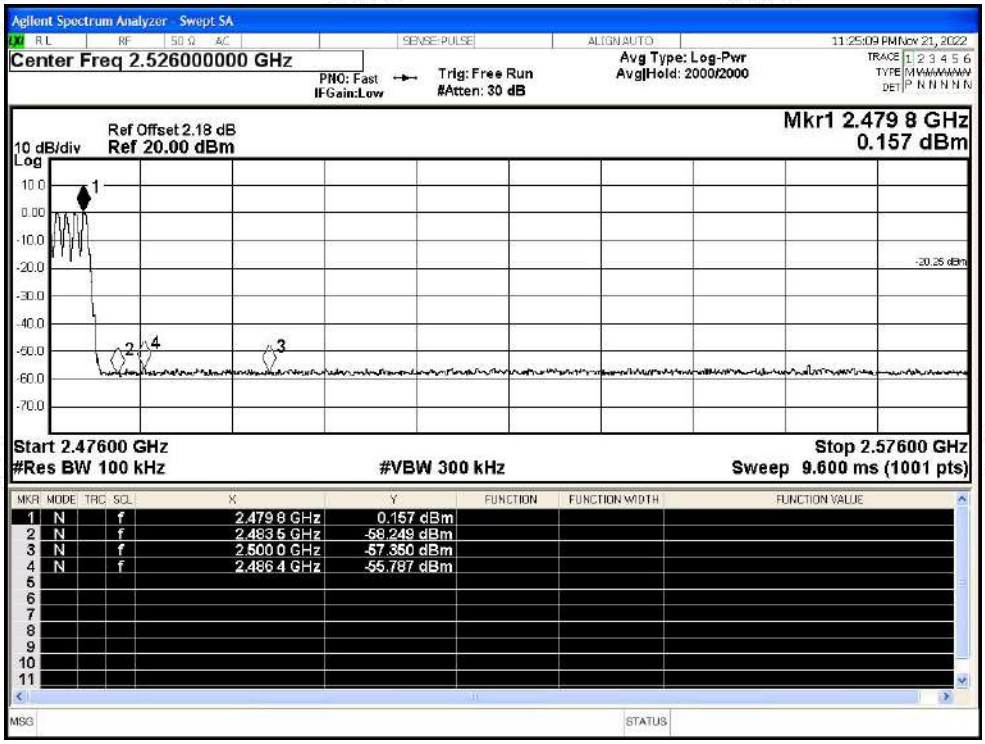
Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission



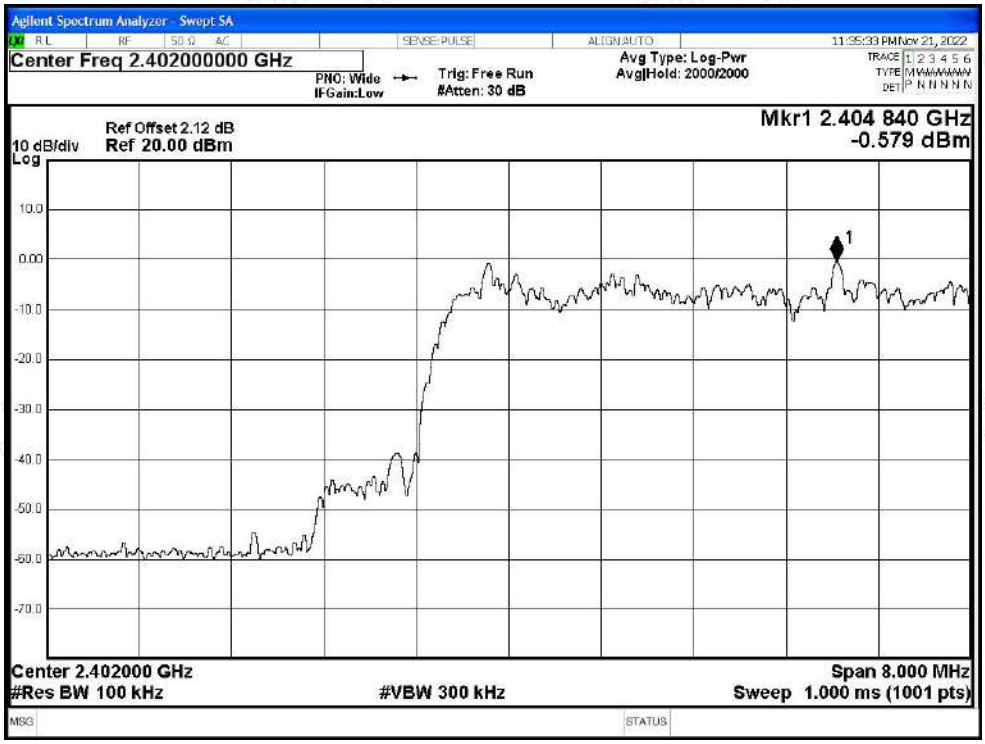
Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Ref



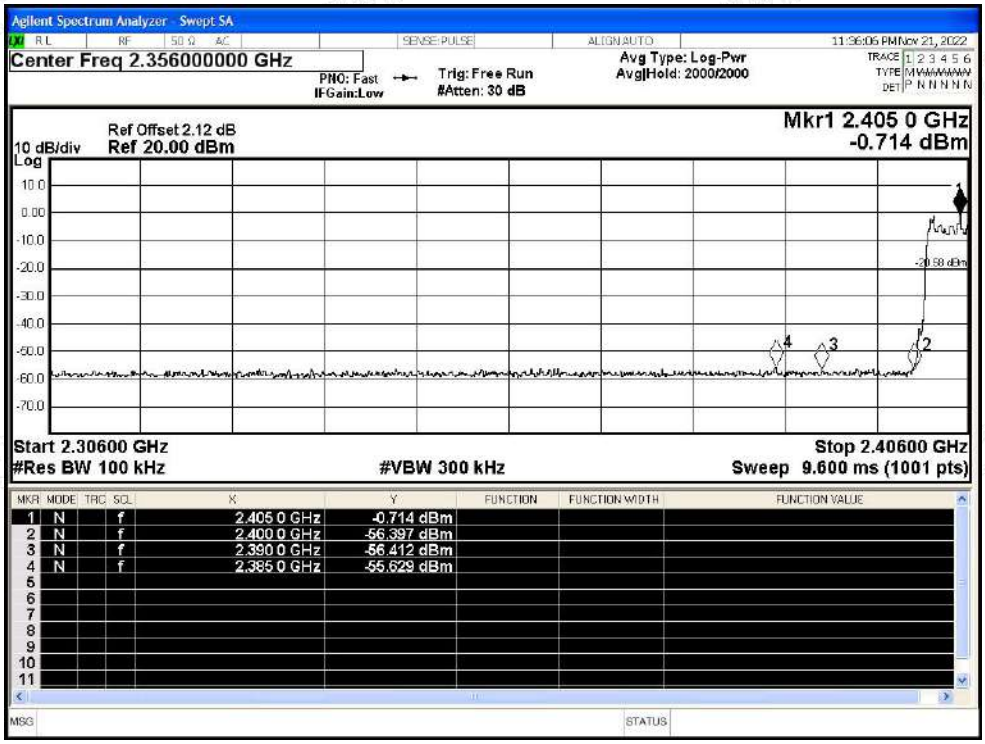
Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Emission



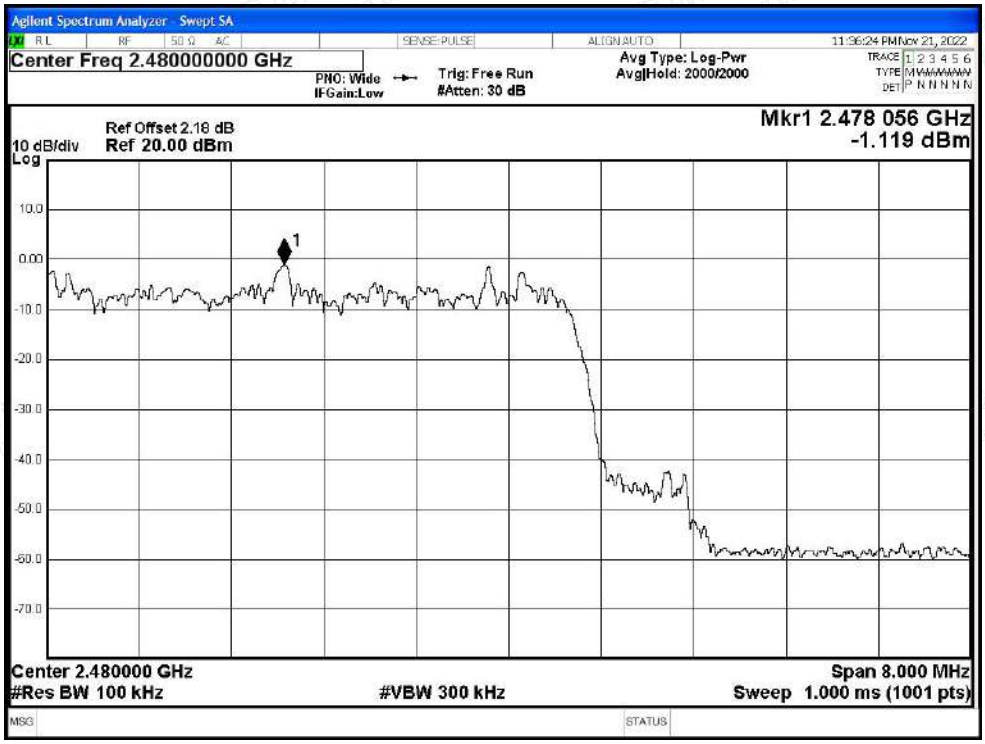
Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Ref



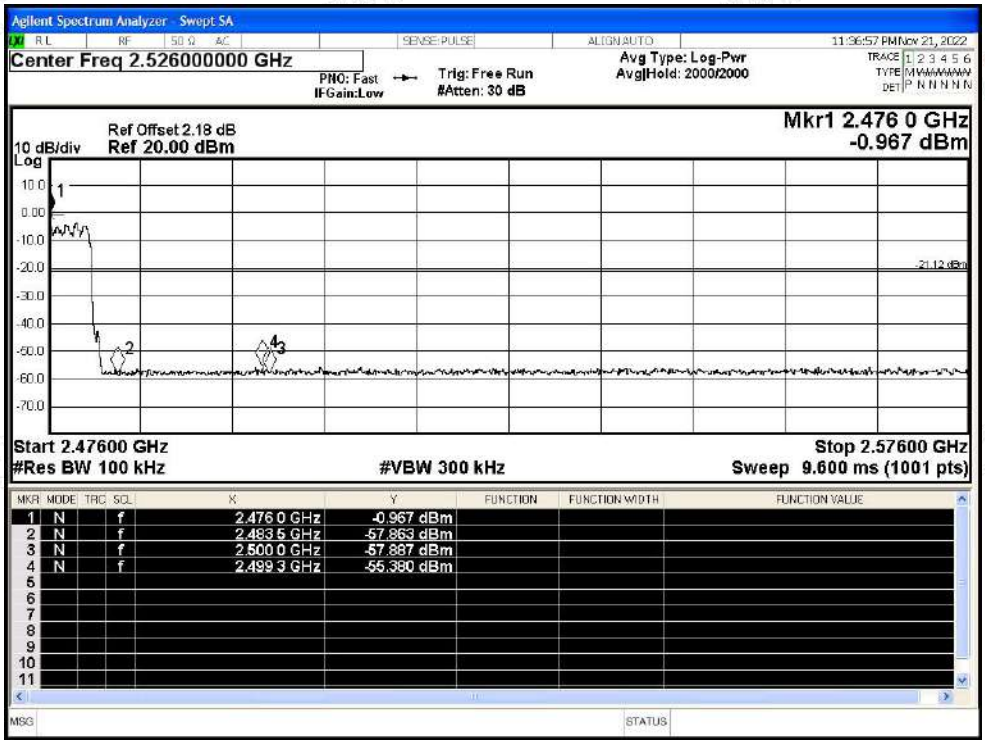
Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Emission



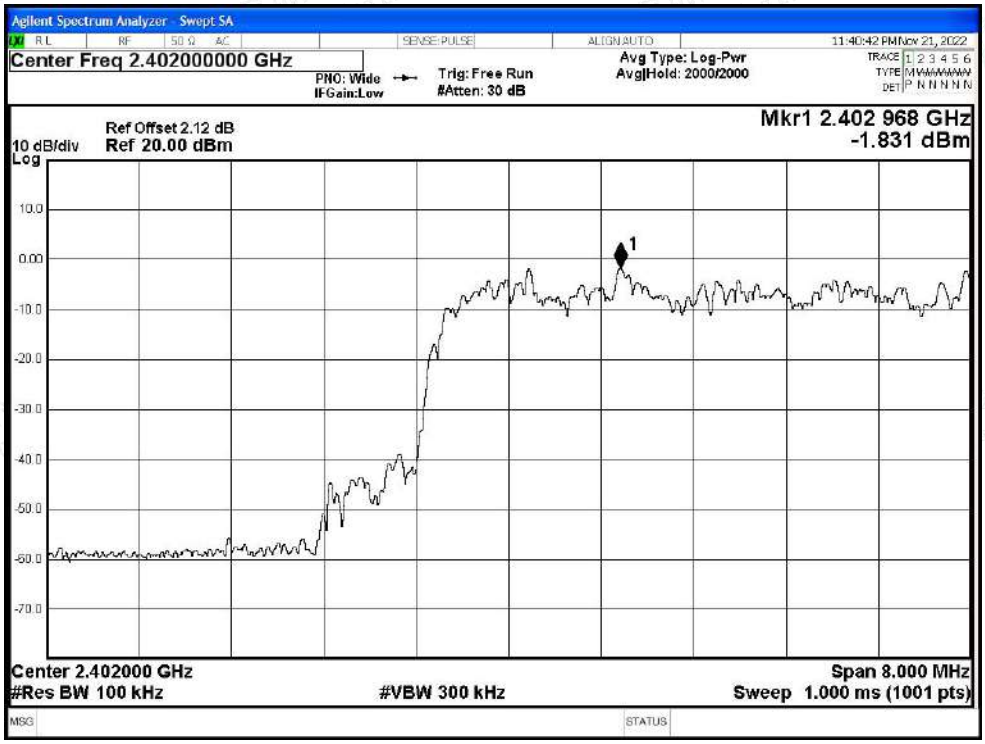
Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Ref



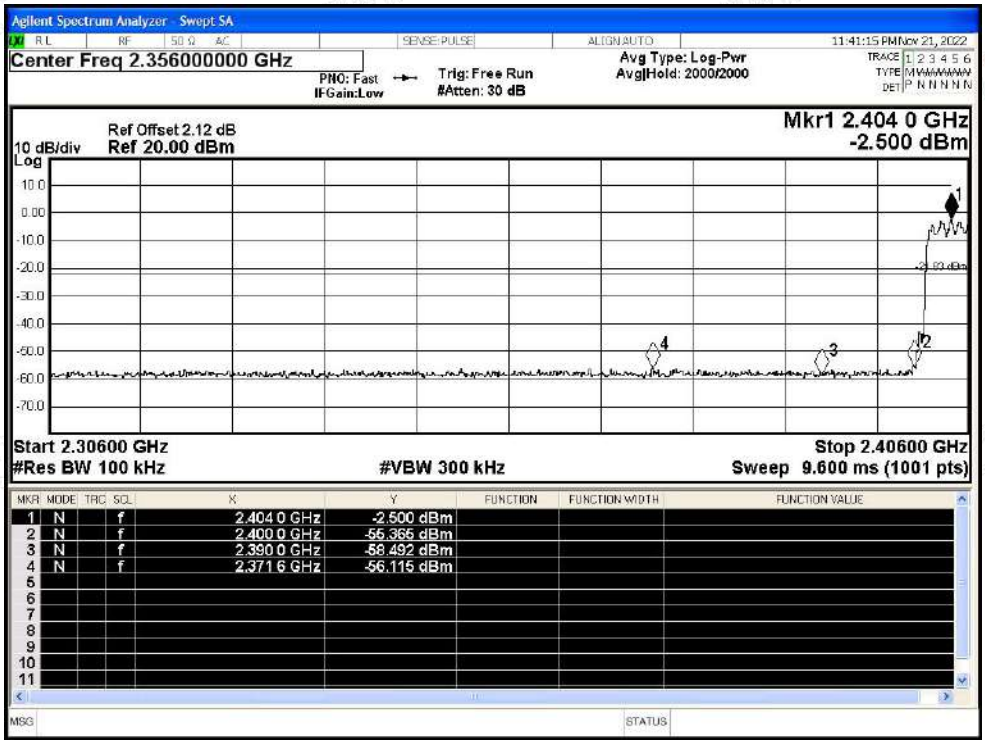
Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Emission



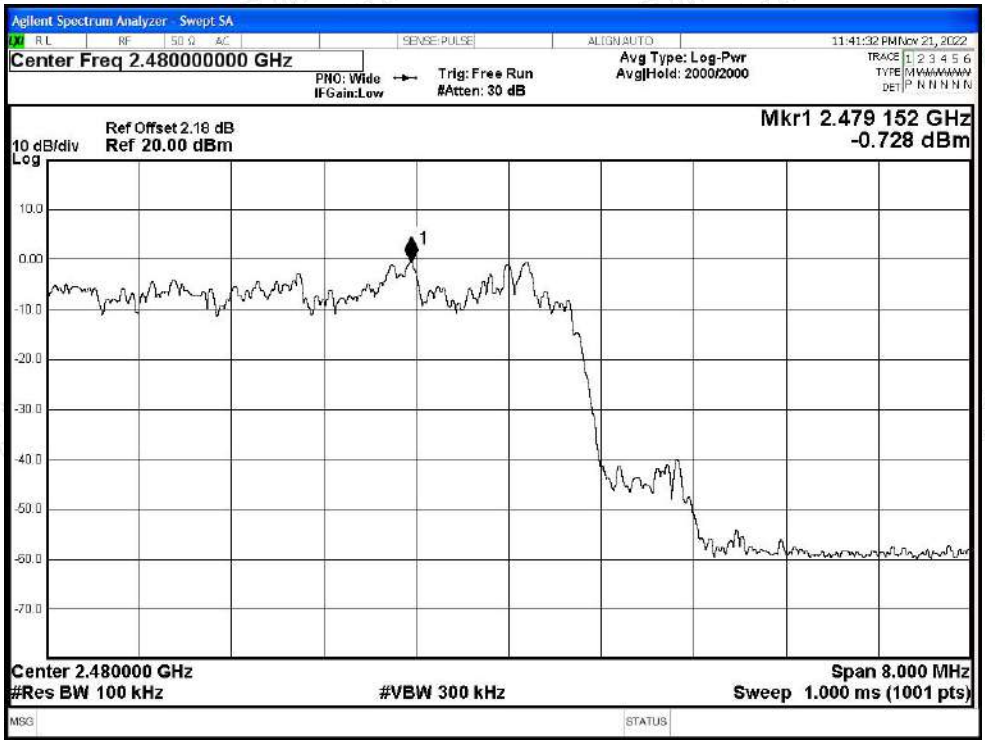
Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Ref



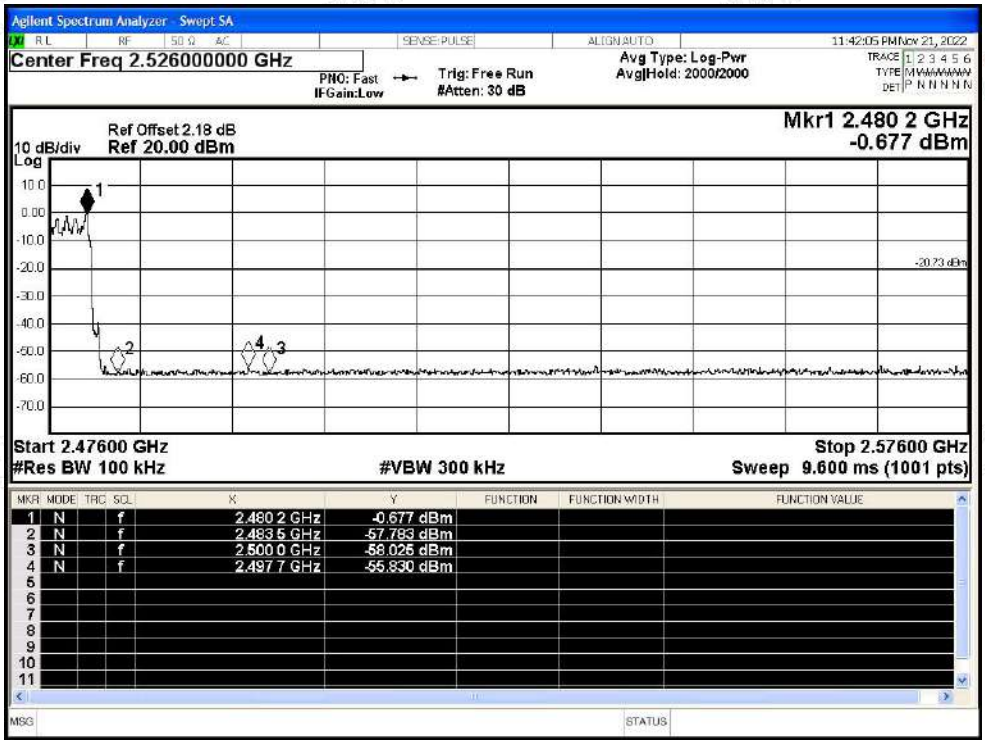
Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Emission



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



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

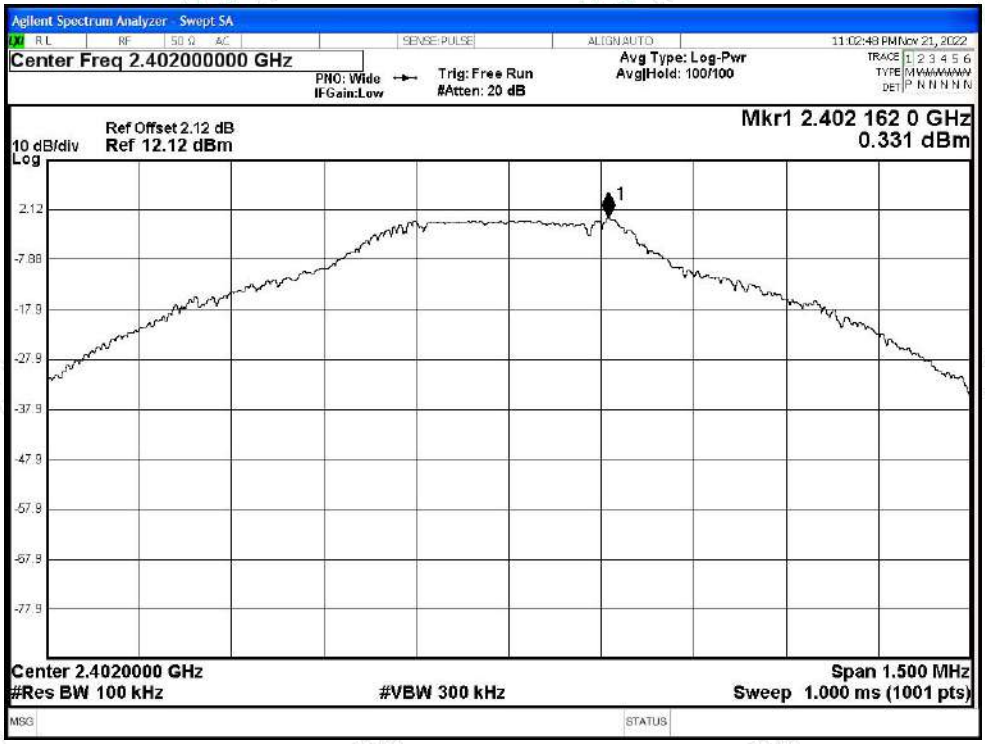


A.7 Conducted RF Spurious Emission

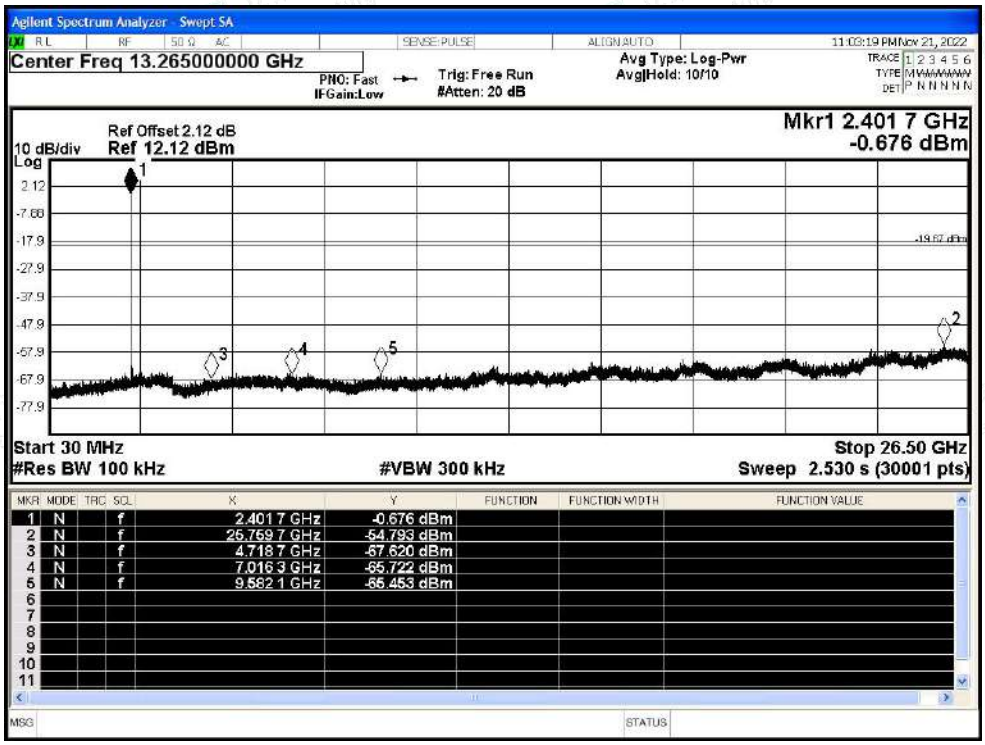
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-55.12	-20	Pass
NVNT	1-DH5	2441	Ant1	-56.65	-20	Pass
NVNT	1-DH5	2480	Ant1	-55.36	-20	Pass
NVNT	2-DH5	2402	Ant1	-55.09	-20	Pass
NVNT	2-DH5	2441	Ant1	-54.76	-20	Pass
NVNT	2-DH5	2480	Ant1	-54.6	-20	Pass
NVNT	3-DH5	2402	Ant1	-54.47	-20	Pass
NVNT	3-DH5	2441	Ant1	-55.09	-20	Pass
NVNT	3-DH5	2480	Ant1	-54.48	-20	Pass

Test Graphs

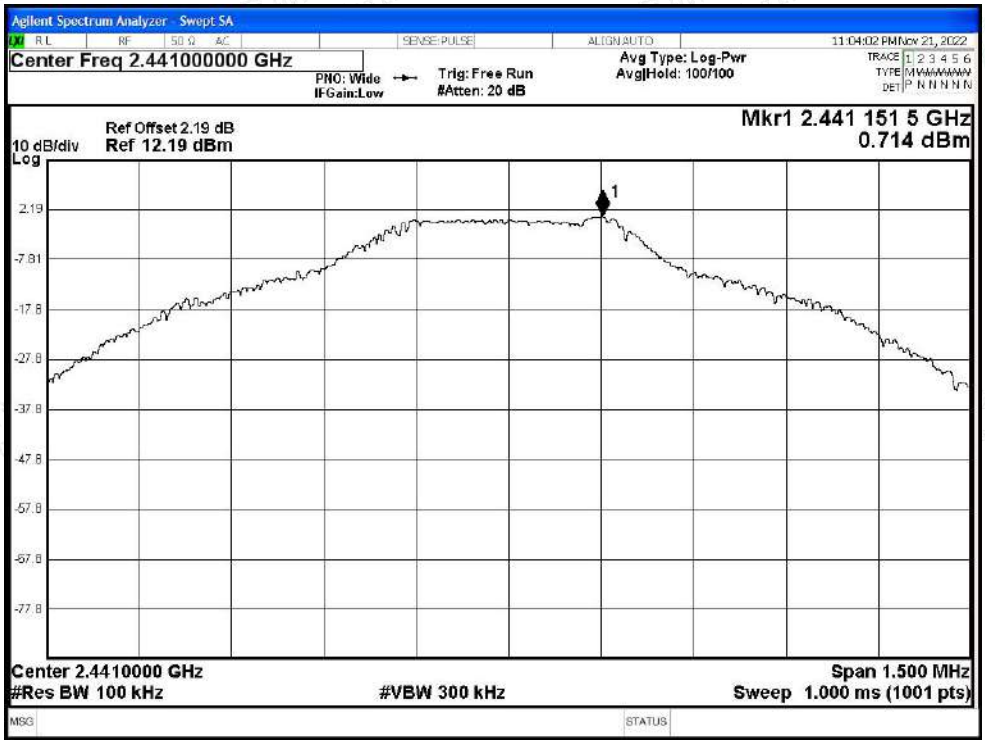
Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref



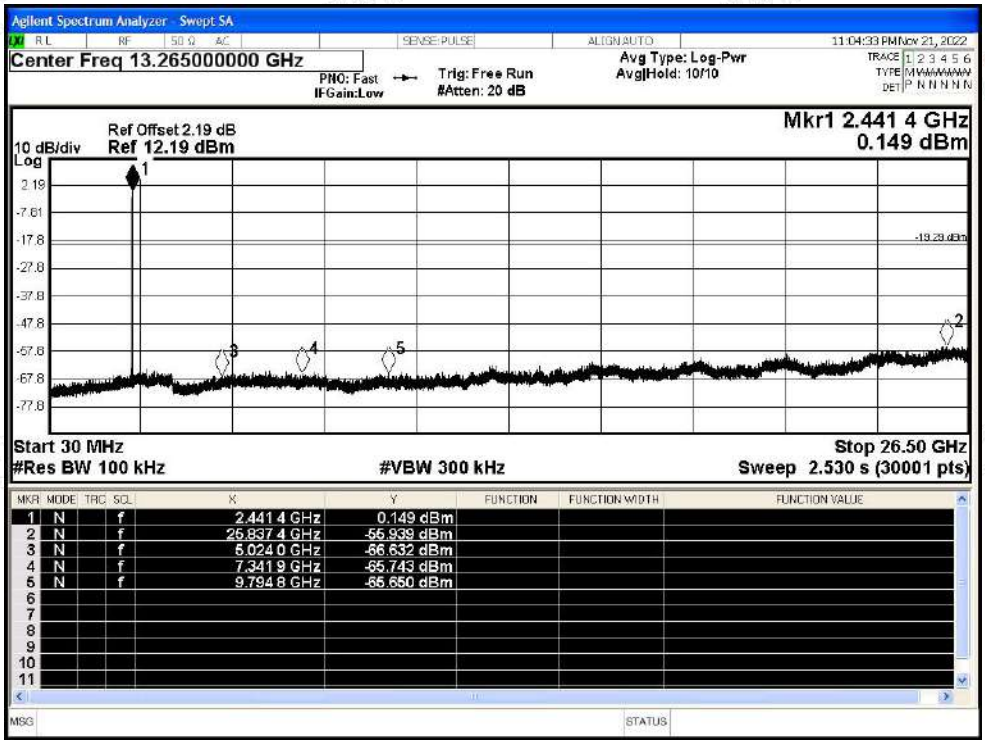
Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission



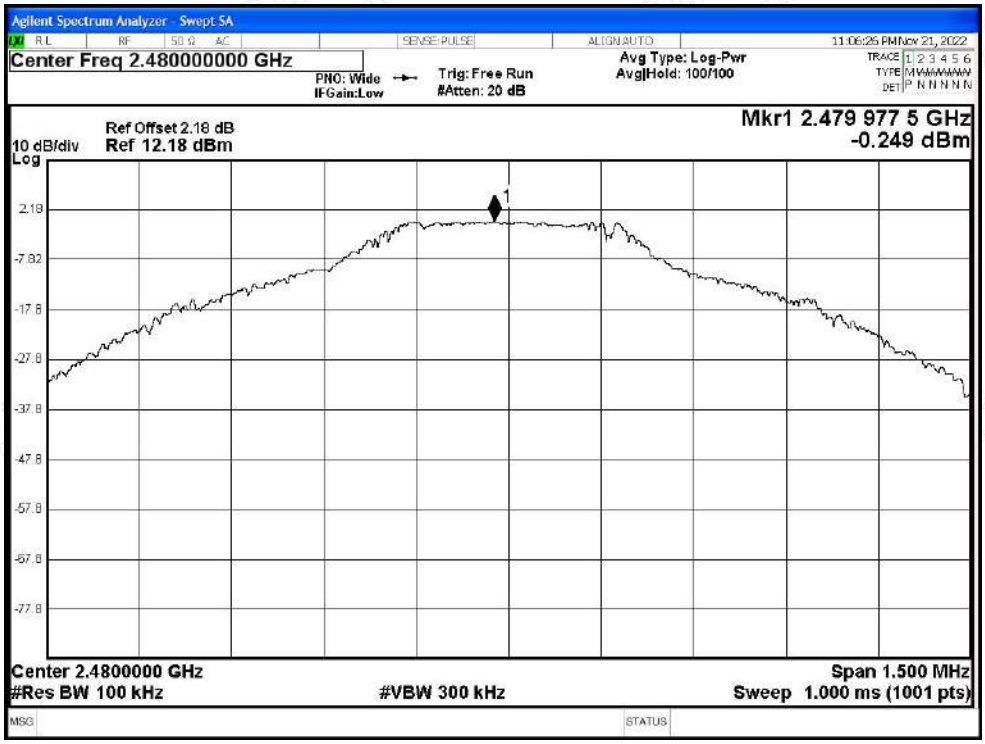
Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref



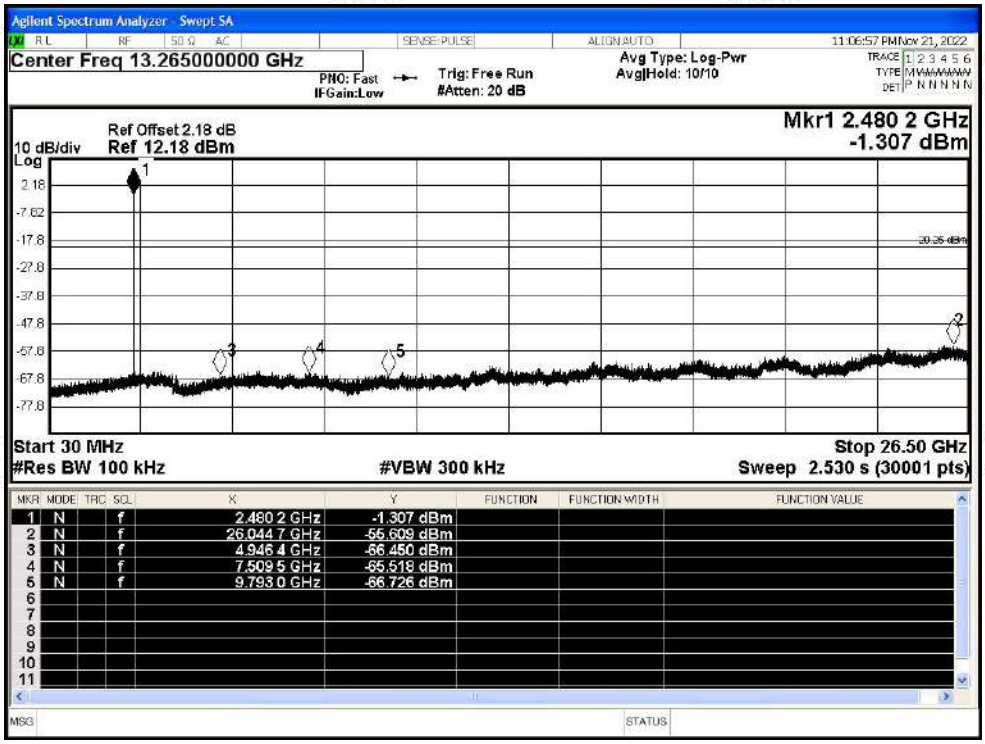
Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission



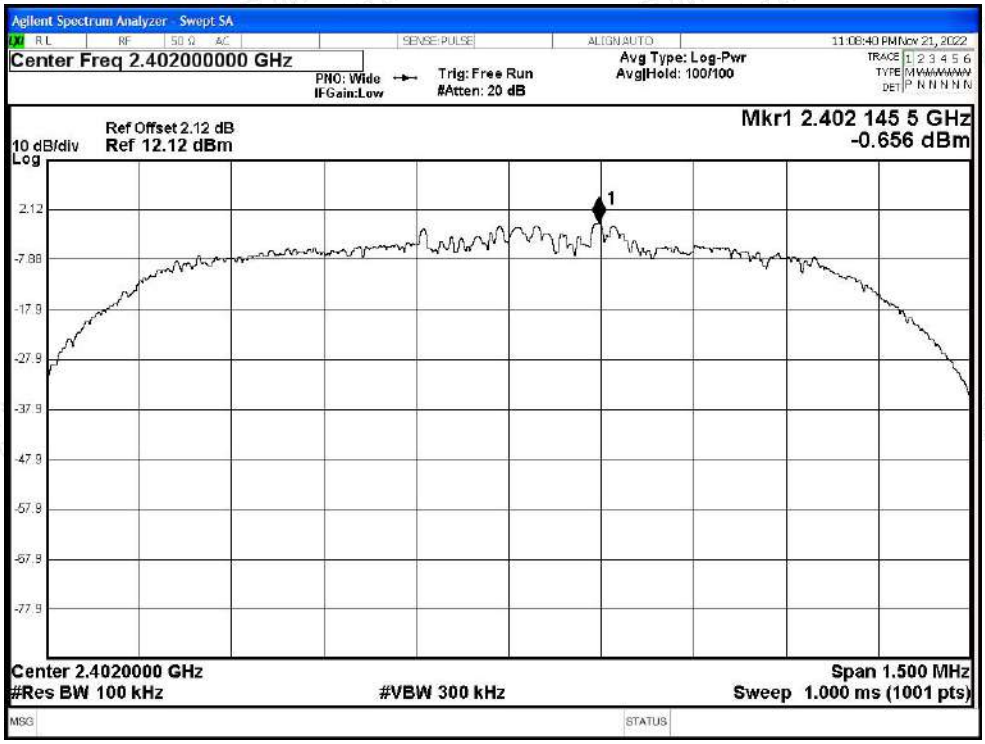
Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref



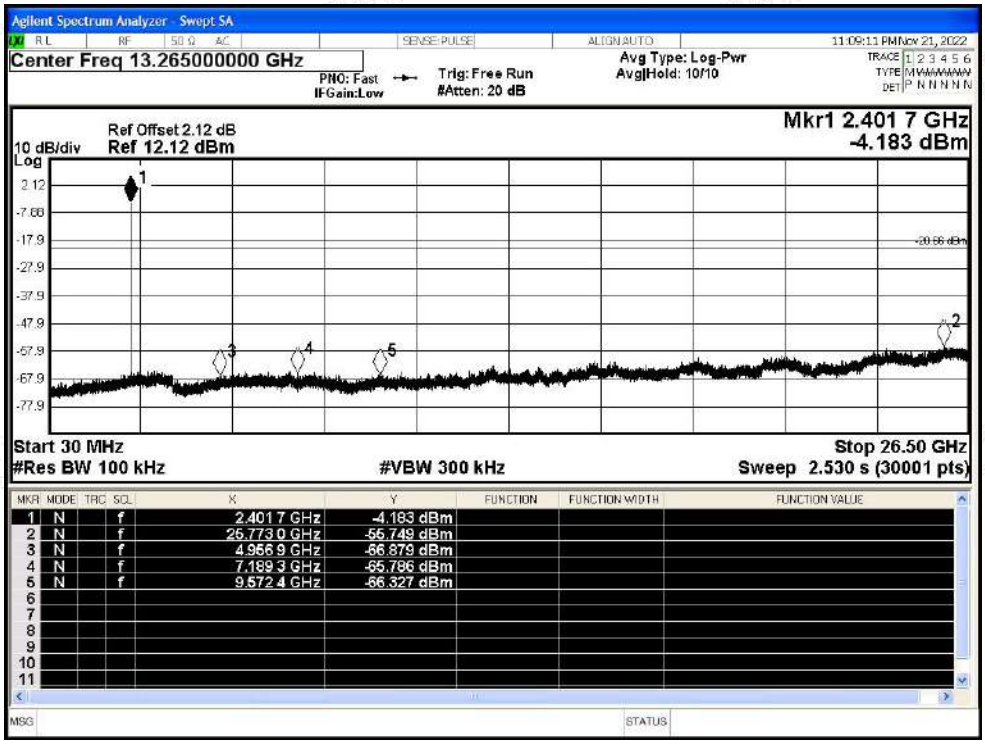
Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission



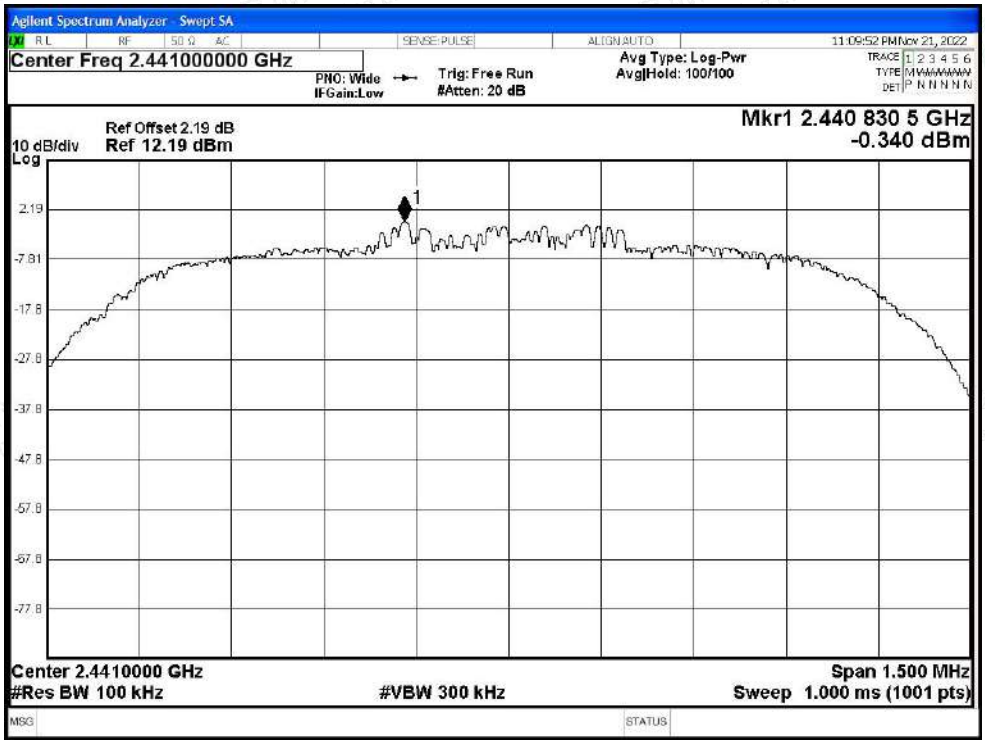
Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref



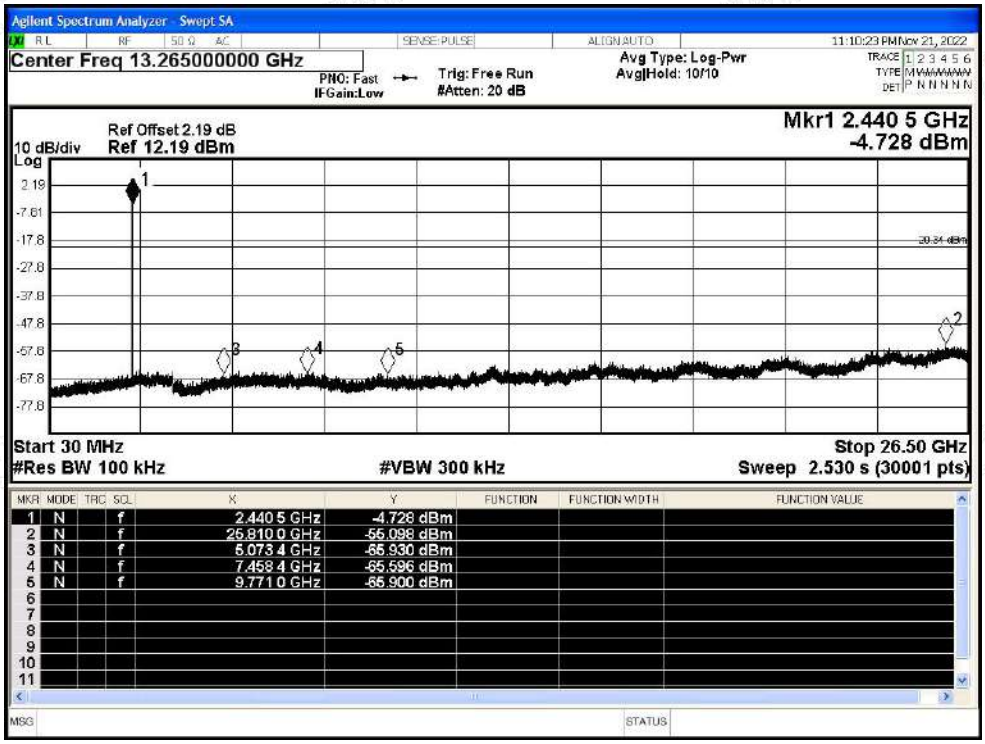
Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission



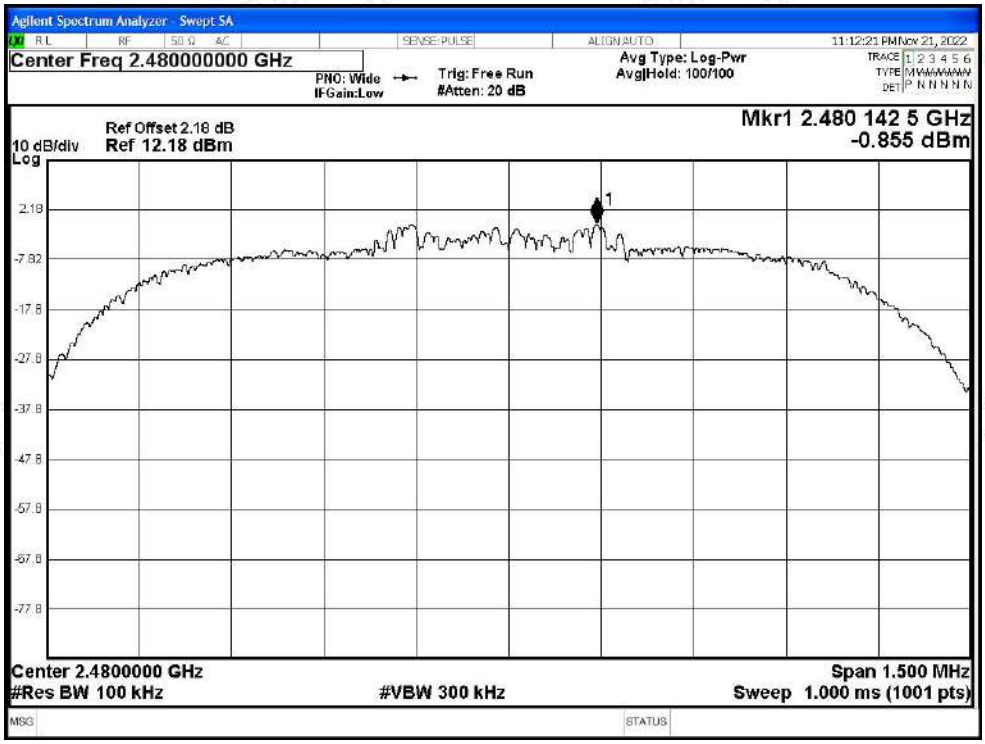
Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref



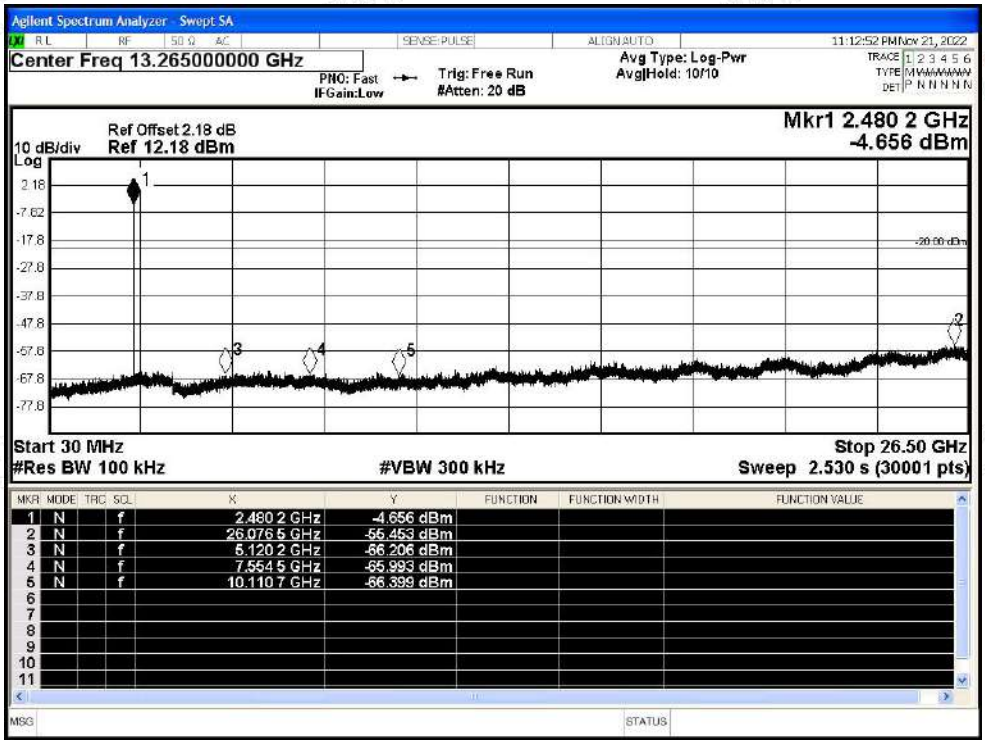
Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission



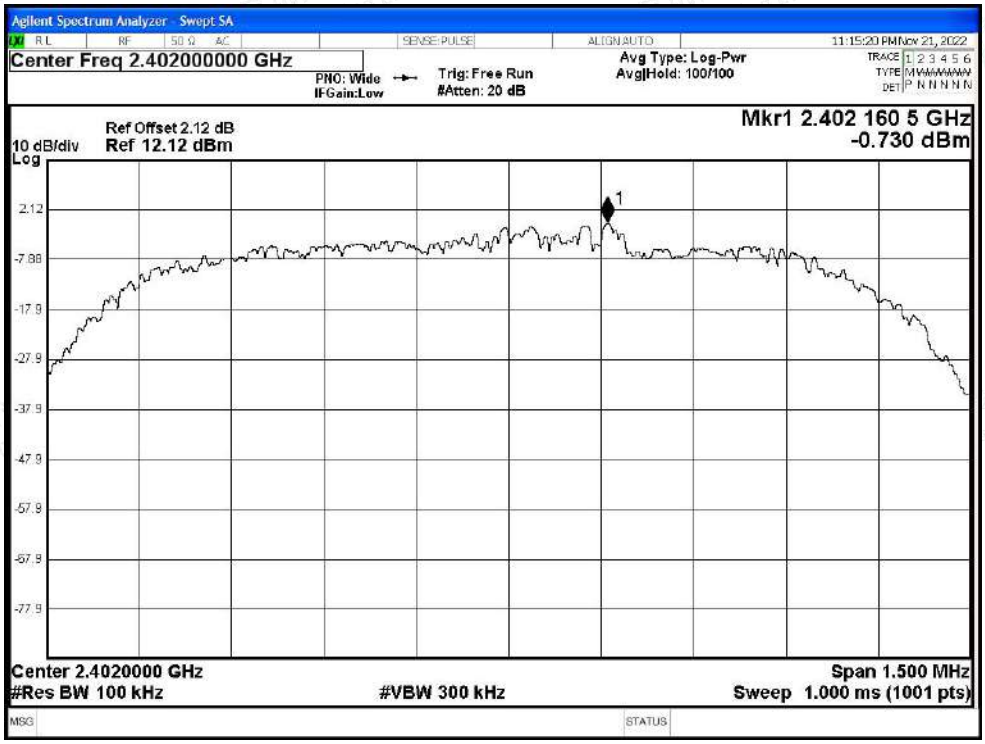
Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref



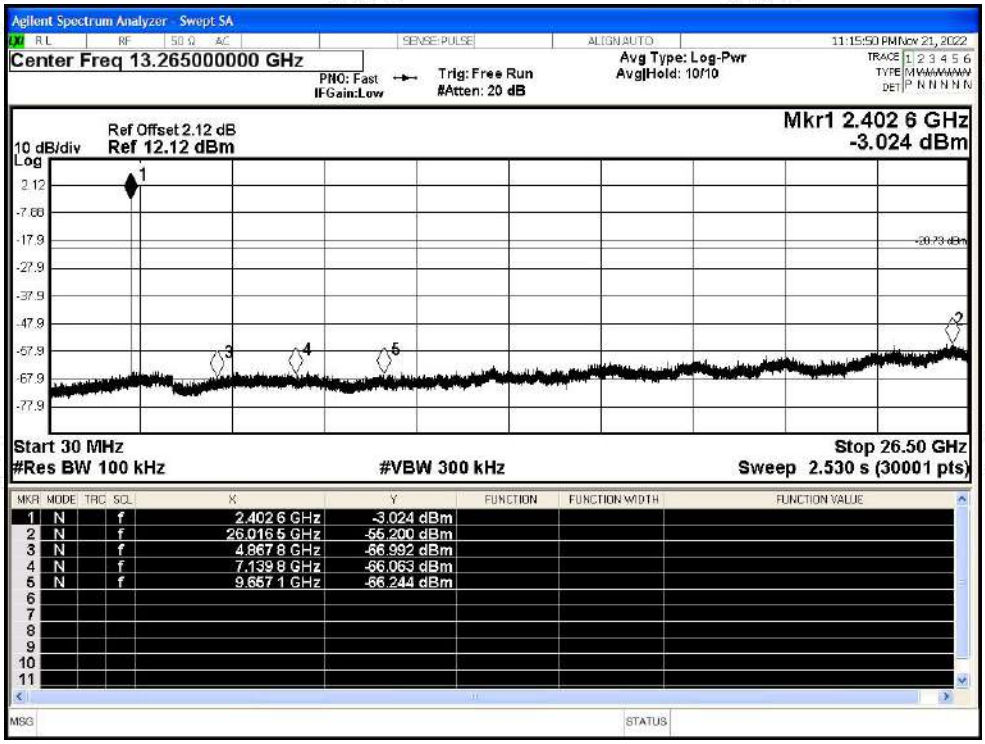
Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Emission



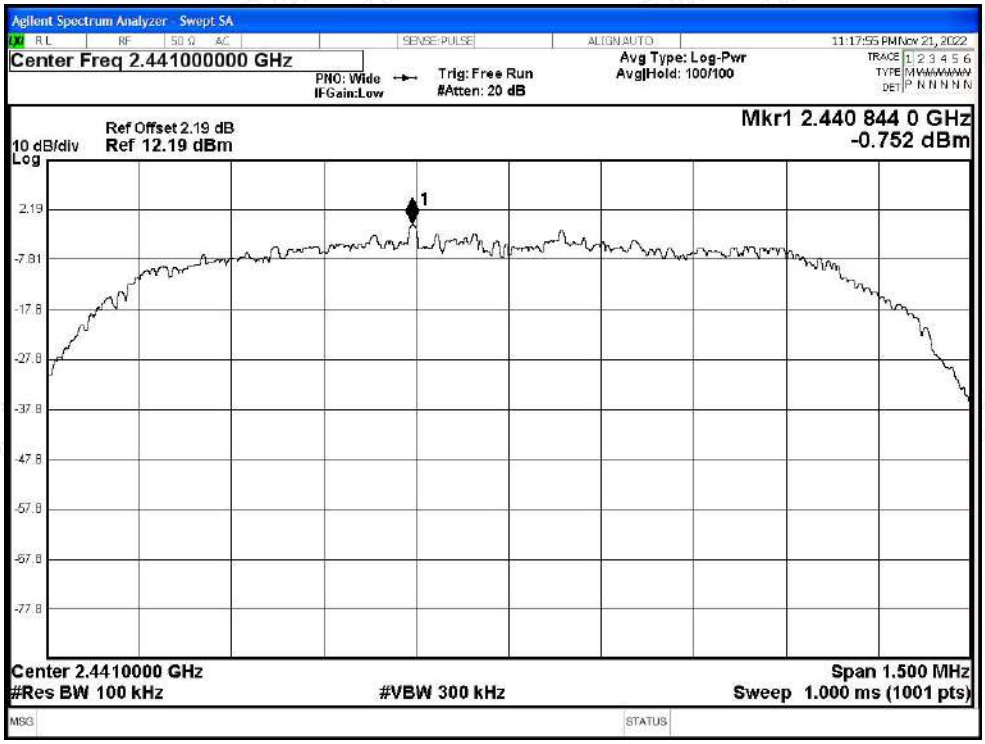
Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Ref



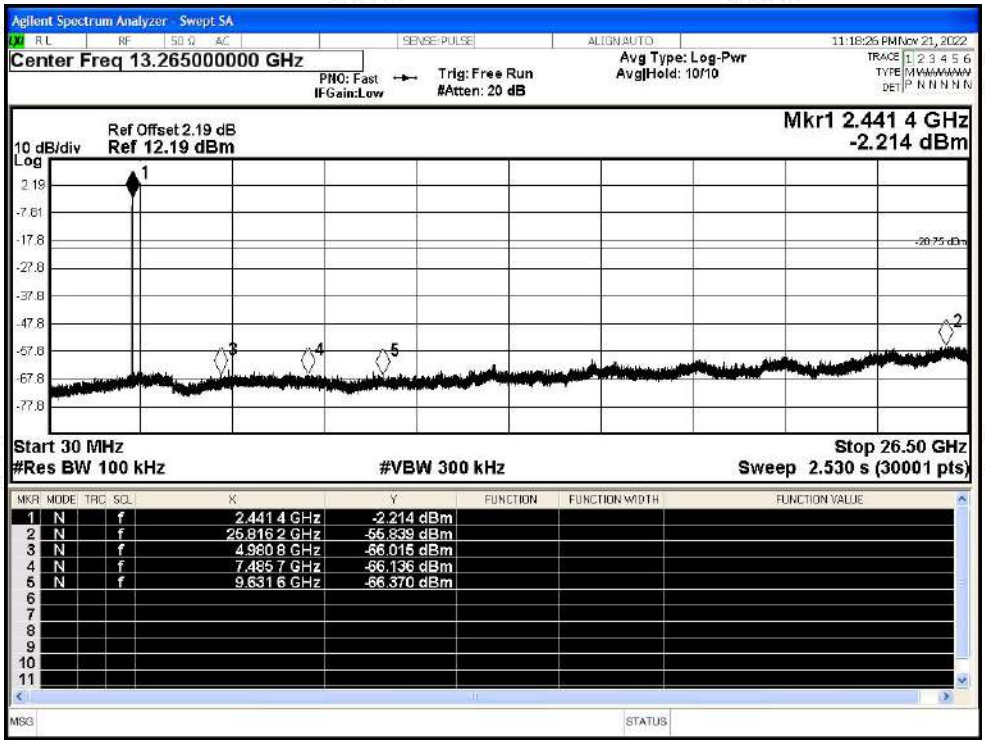
Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Emission



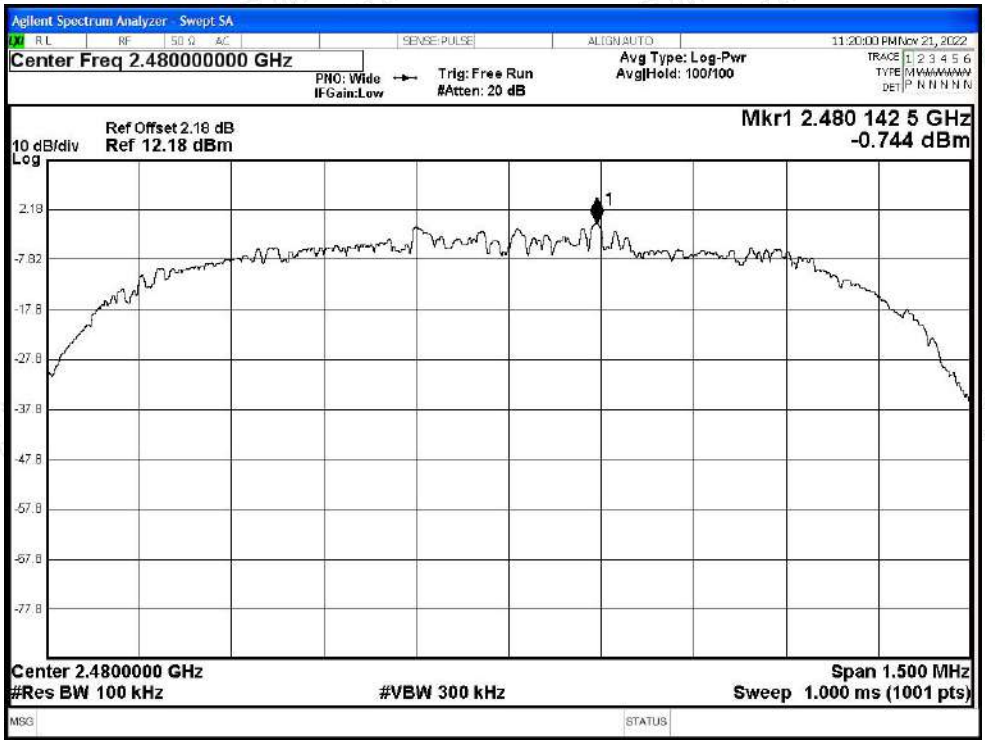
Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Ref



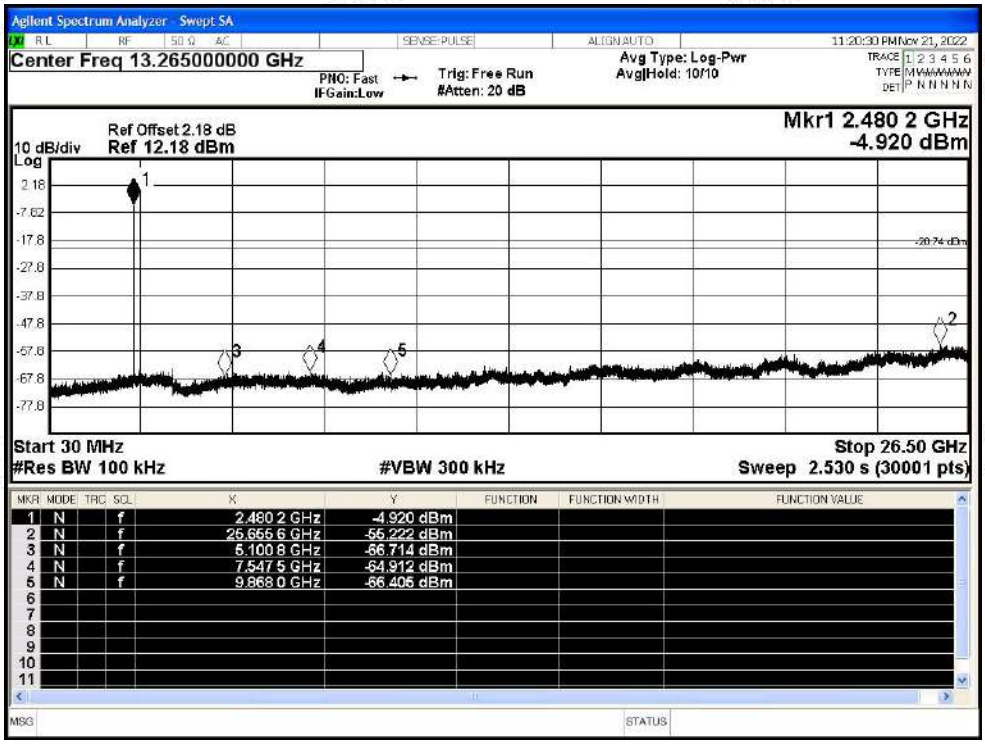
Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Emission



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Emission

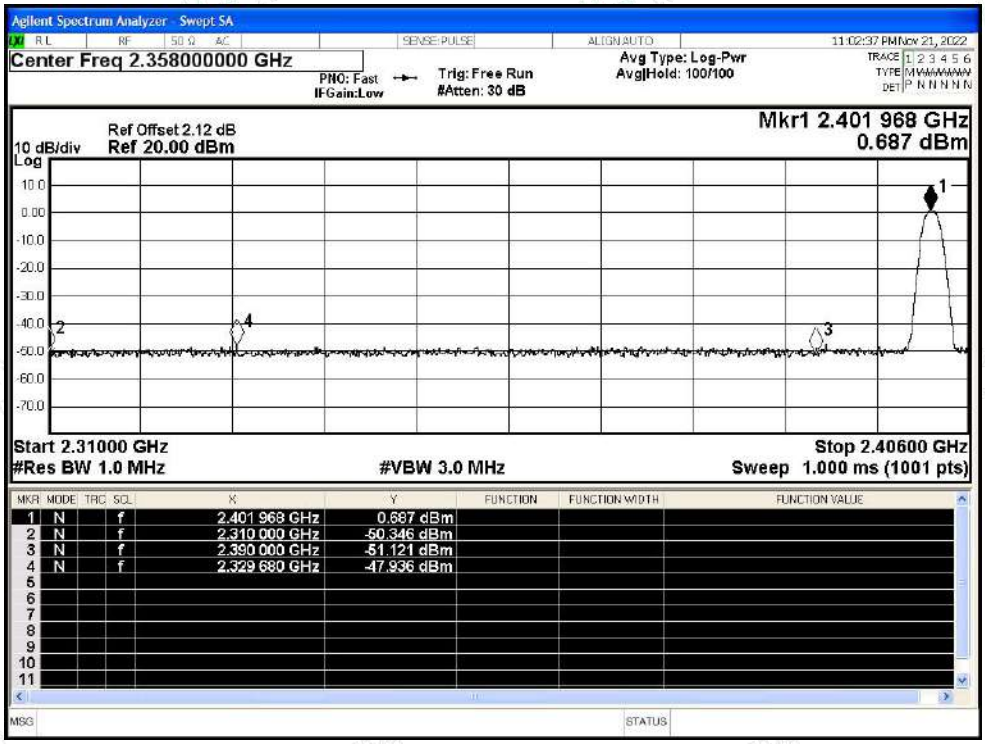


A.8 Restrict Band

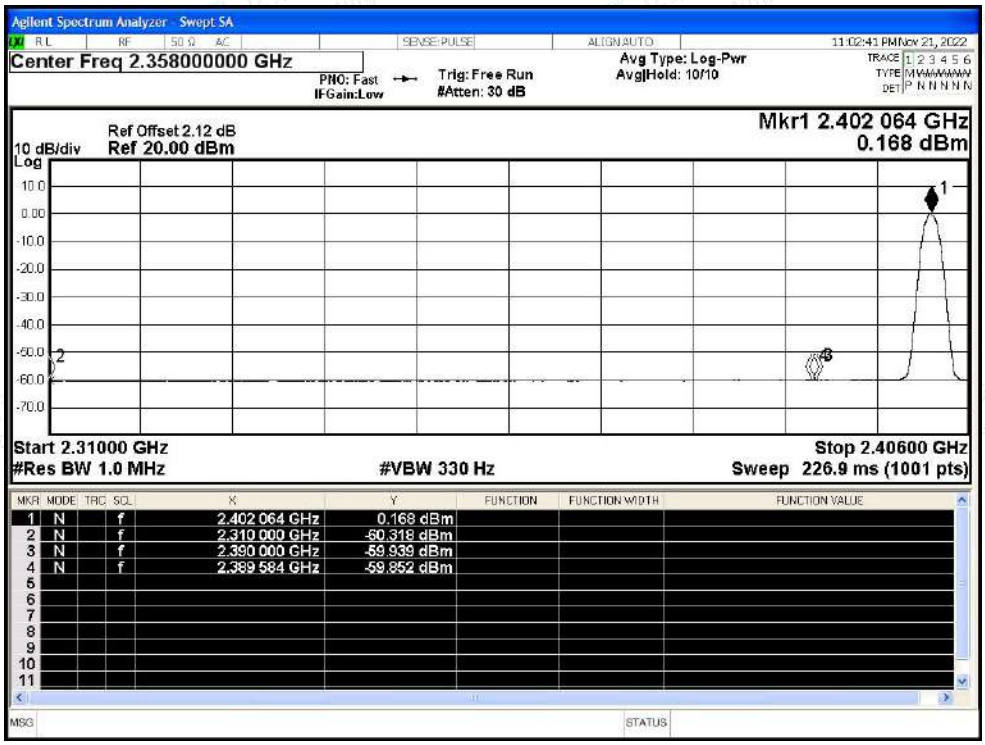
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-50.35	2.3	47.18	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-60.32	2.3	37.21	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2329.68	-47.94	2.3	49.59	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2389.584	-59.85	2.3	37.68	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-51.12	2.3	46.41	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-59.94	2.3	37.59	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-50.94	2.3	46.59	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-59.76	2.3	37.77	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2484.736	-47.26	2.3	50.27	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2484.904	-59.47	2.3	38.06	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-50.4	2.3	47.13	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-59.59	2.3	37.94	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-49.94	2.3	47.59	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-60.4	2.3	37.13	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2386.8	-47.08	2.3	50.45	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2384.688	-59.82	2.3	37.71	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-50.07	2.3	47.46	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-60.11	2.3	37.42	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-50.39	2.3	47.14	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-59.49	2.3	38.04	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2493.472	-47.38	2.3	50.15	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2484.712	-59.37	2.3	38.16	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-50.96	2.3	46.57	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-59.73	2.3	37.80	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-51.64	2.3	45.89	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-60.32	2.3	37.21	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2333.712	-47.27	2.3	50.26	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2380.464	-59.89	2.3	37.64	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-51.73	2.3	45.80	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-60.1	2.3	37.43	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-49.61	2.3	47.92	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-59.52	2.3	38.01	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2488.24	-45.97	2.3	51.56	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.752	-59.43	2.3	38.10	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-48.99	2.3	48.54	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-59.85	2.3	37.68	Average	54	Pass

Test Graphs

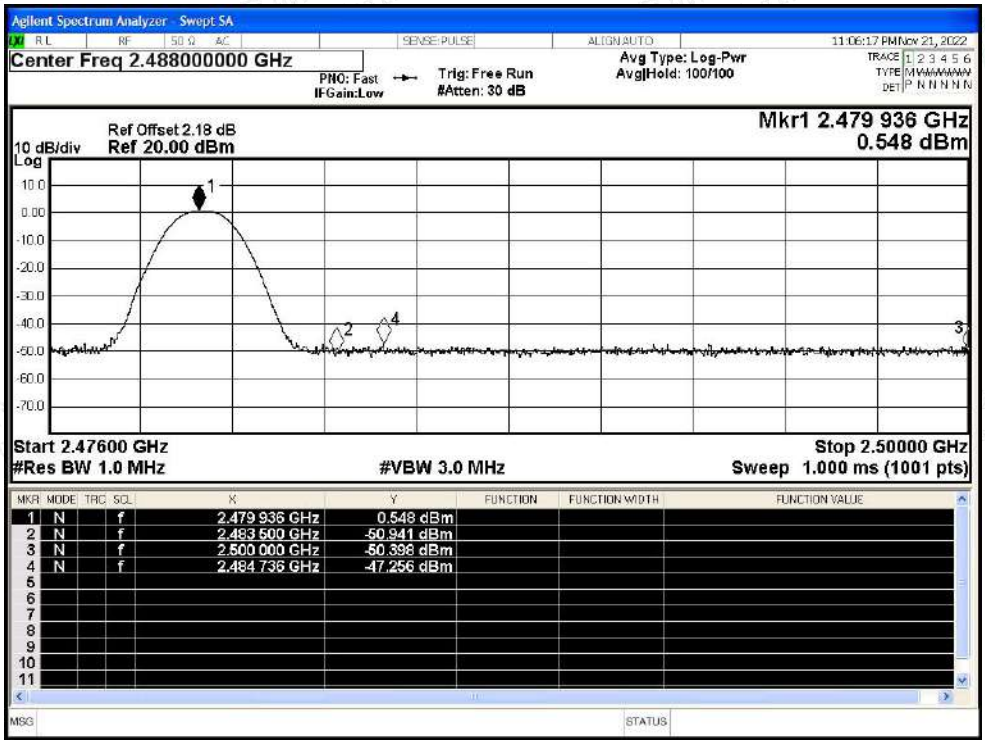
Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Peak



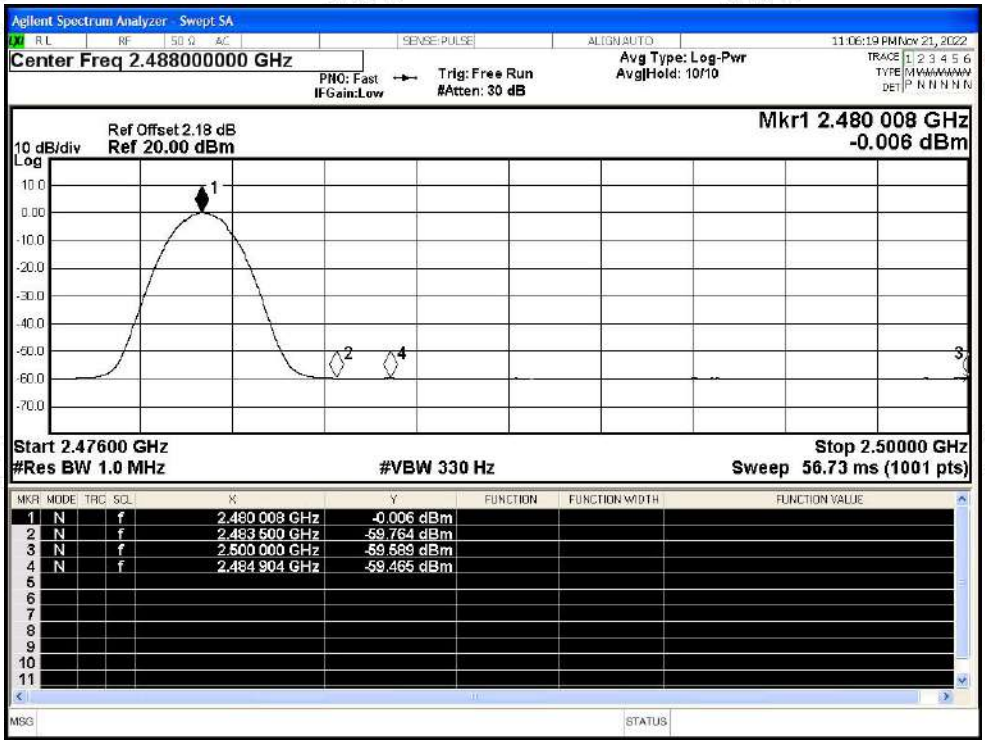
Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Average



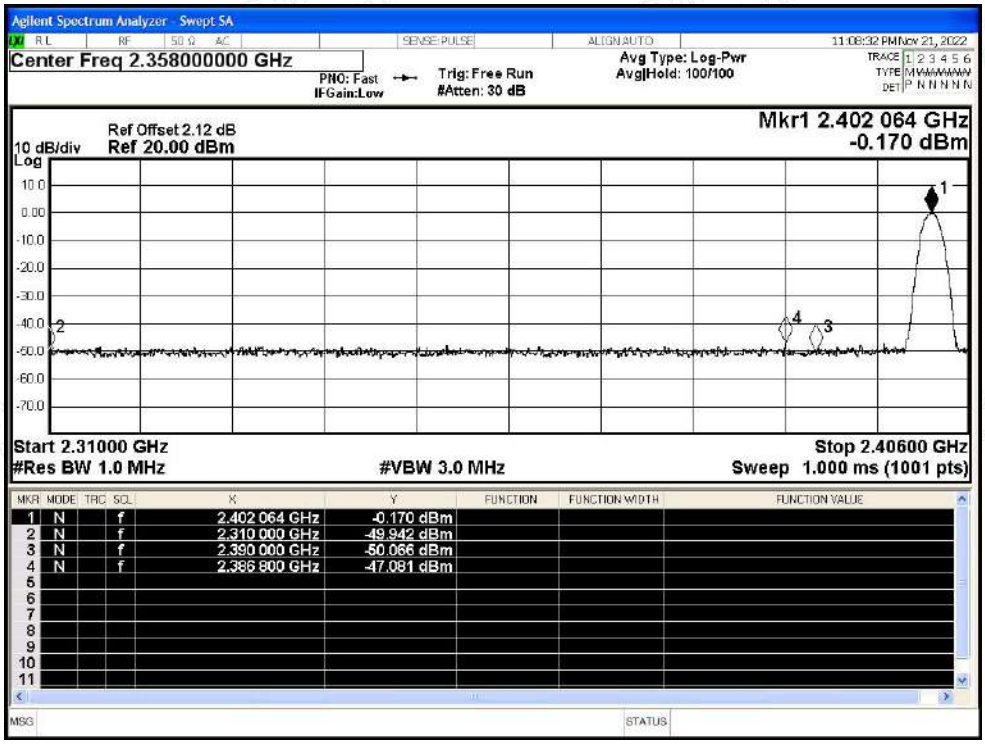
Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Peak



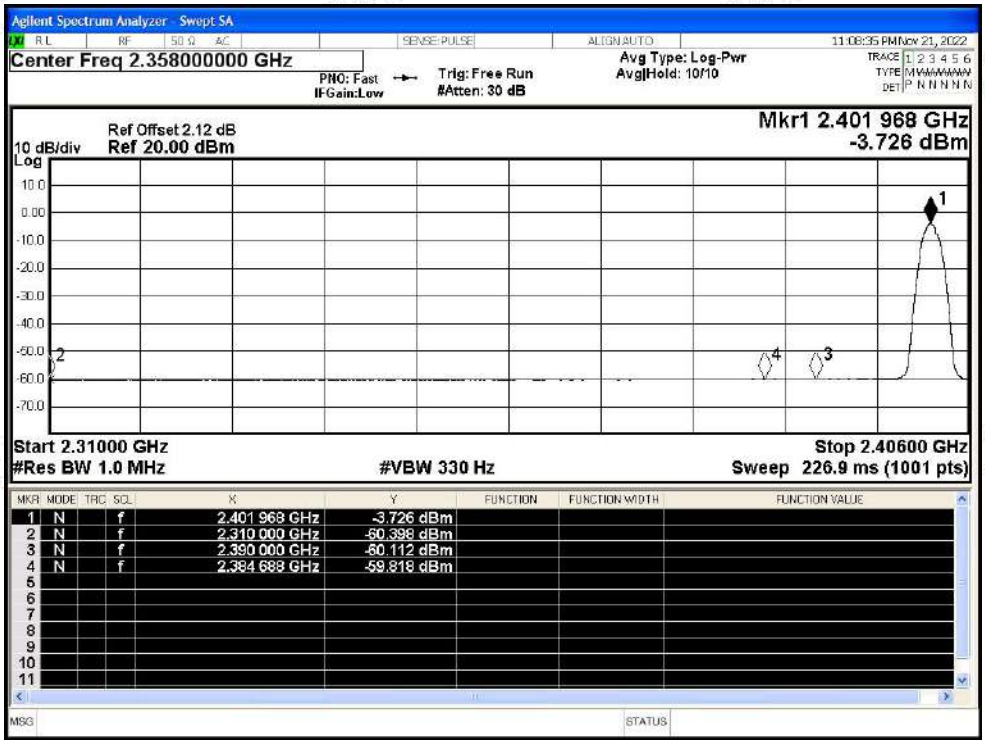
Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Average



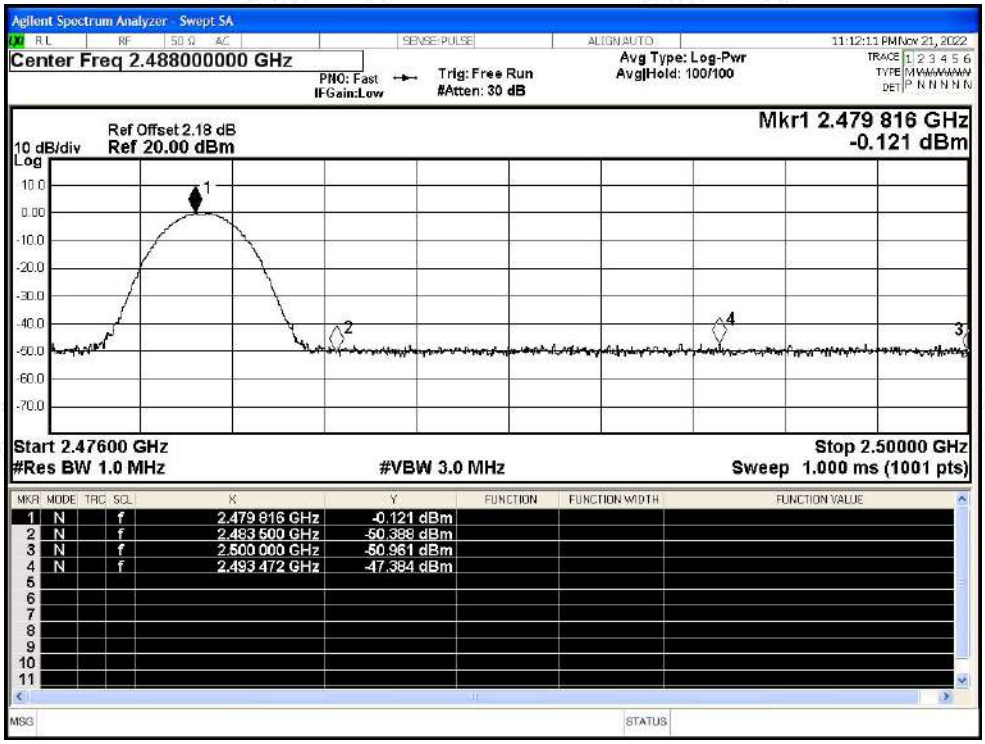
Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Peak



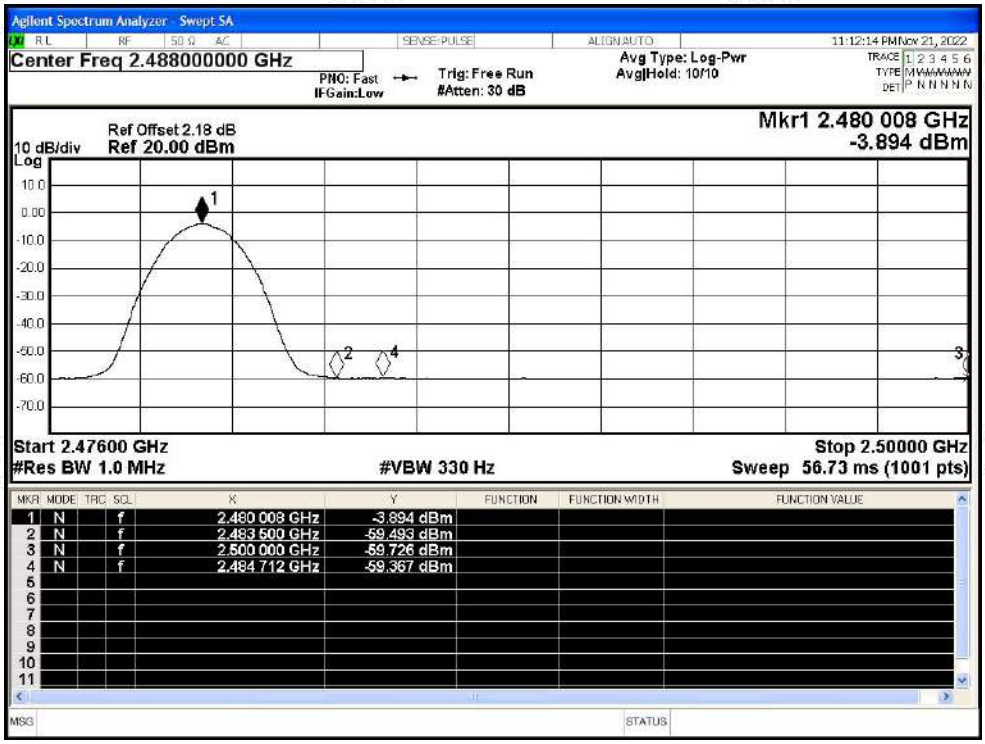
Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Average



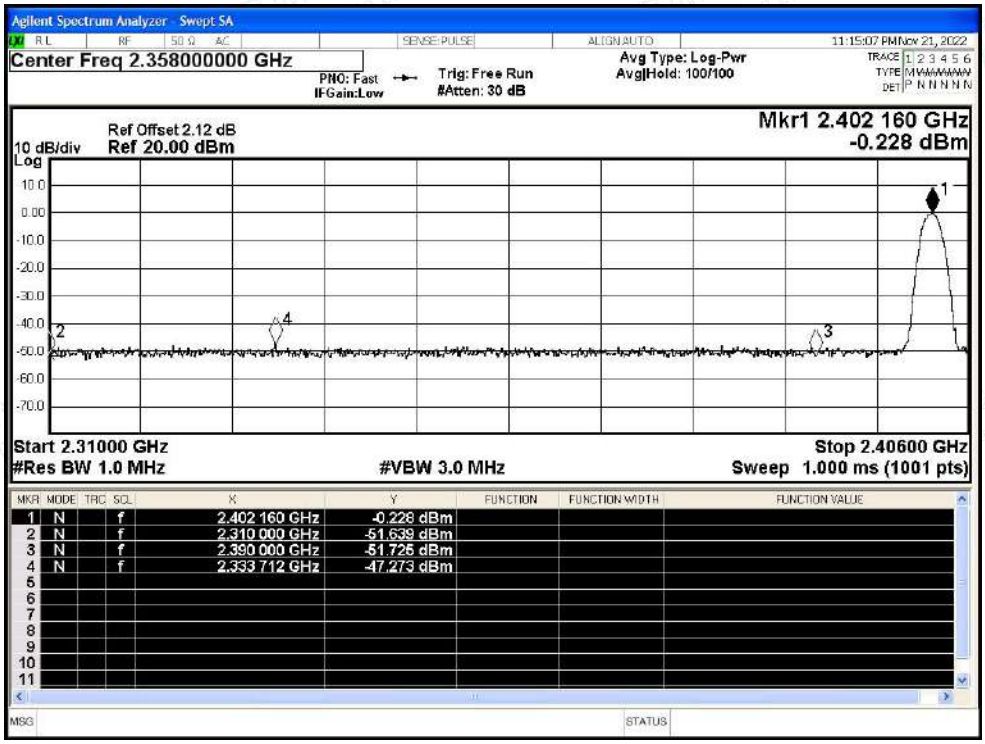
Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Peak



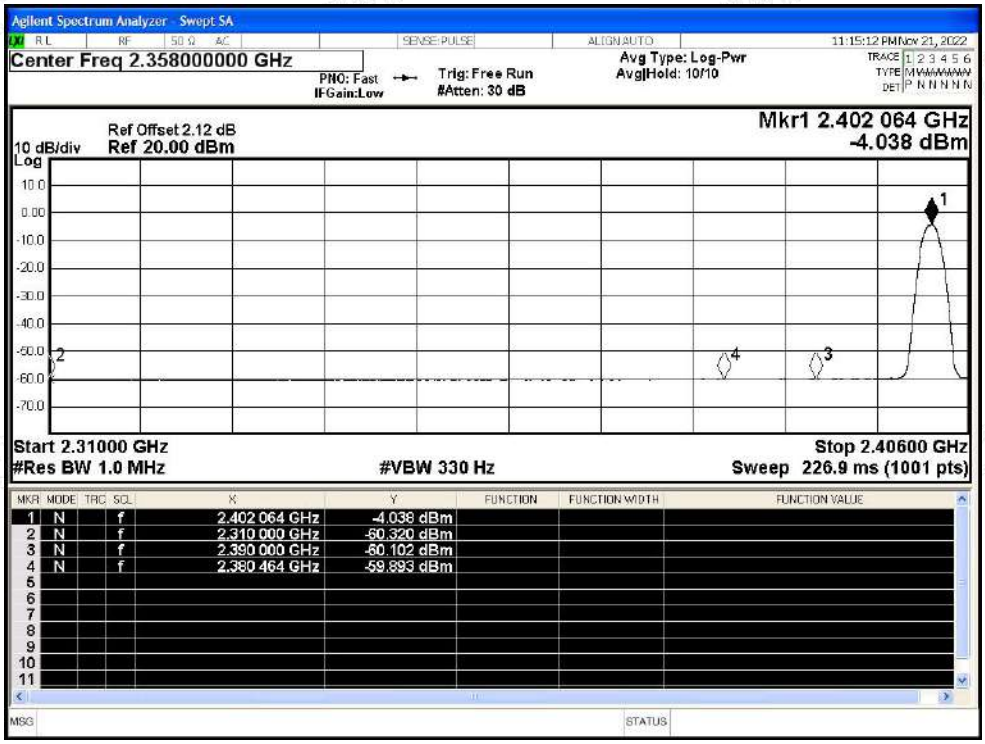
Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Average



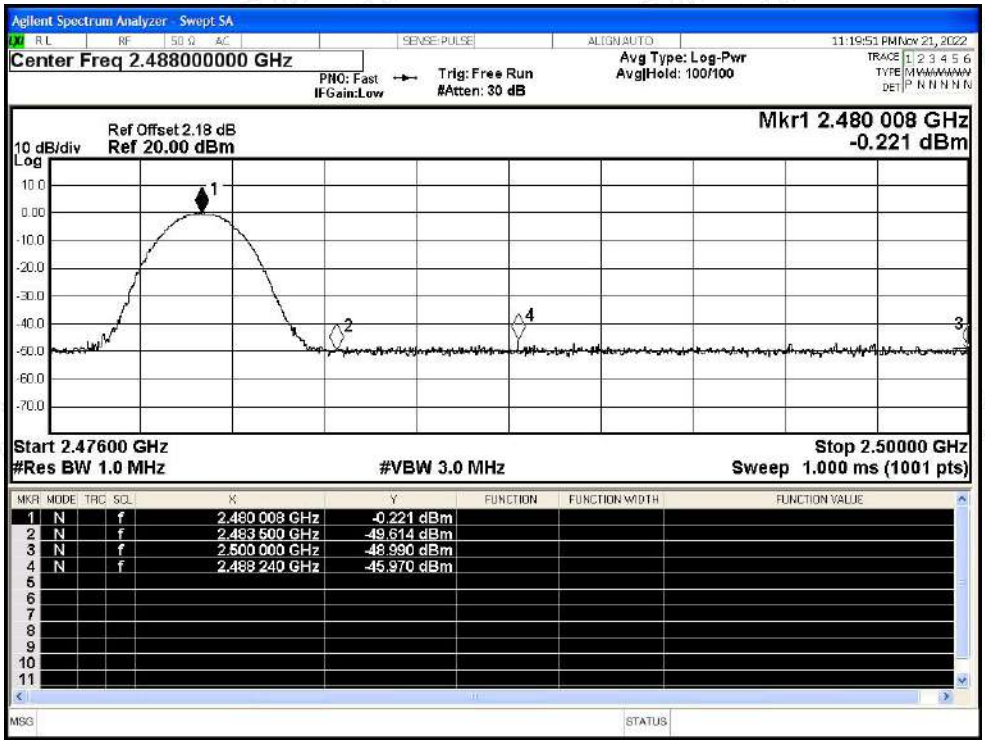
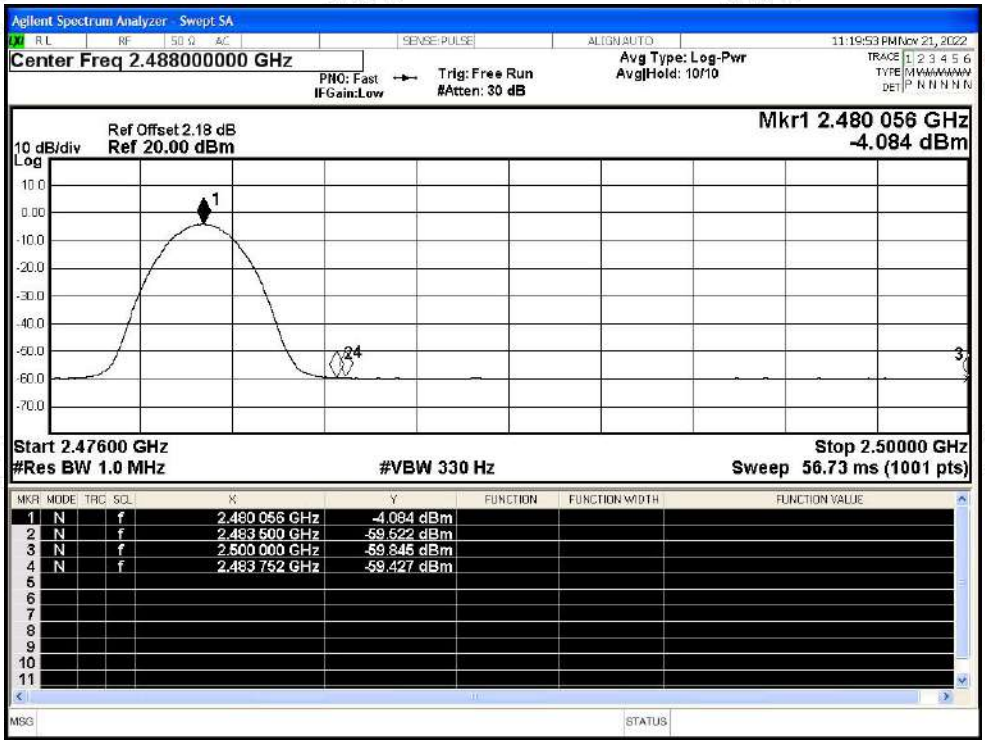
Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Peak



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