Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Campfire Audio ORBIT

Test Model: 2AS58-01

Environmental Conditions

Temperature:	23.5° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
	Wander. Wu
Test Engineer:	Wunder Wu
Supervised by:	Lihn
	Li Huan

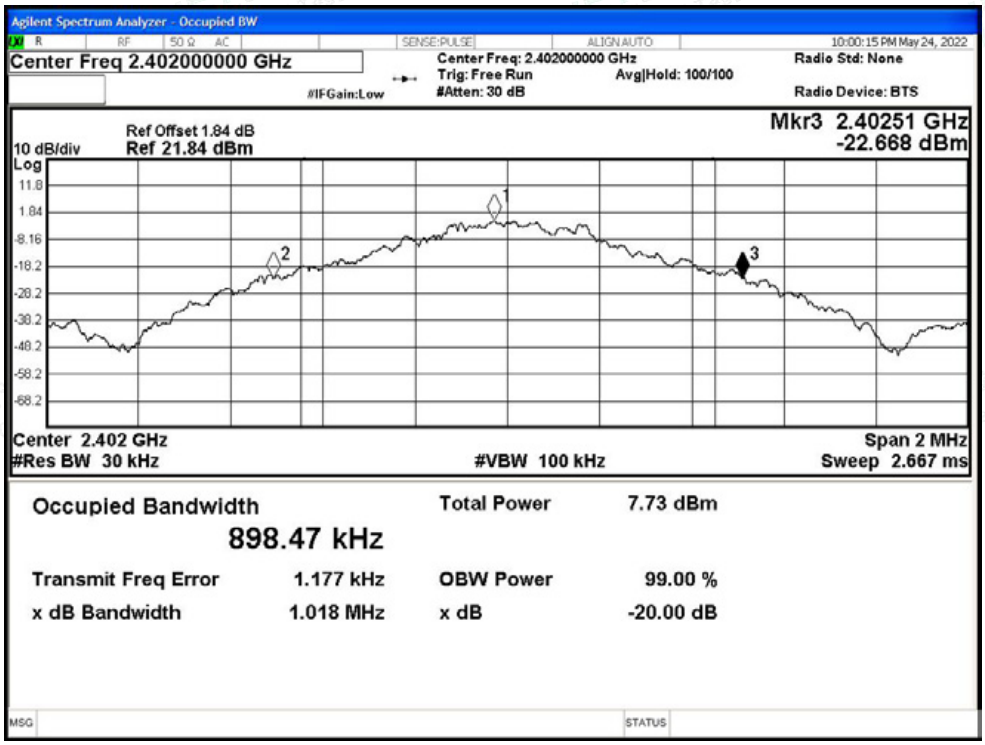
A.1 20dB Bandwidth

Left:

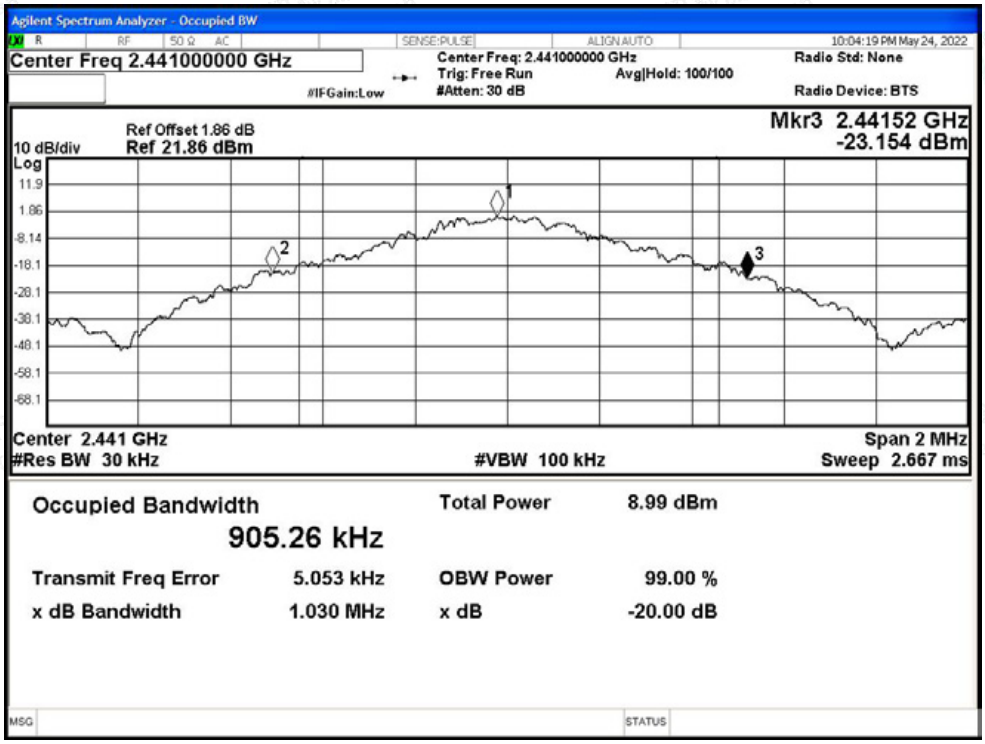
Condition	Mode	Frequency (MHz)	Antenna	20 dB Bandwidth (MHz)	Limit 20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	1.018	0	Pass
NVNT	1-DH5	2441	Ant1	1.030	0	Pass
NVNT	1-DH5	2480	Ant1	1.035	0	Pass
NVNT	2-DH5	2402	Ant1	1.310	0	Pass
NVNT	2-DH5	2441	Ant1	1.283	0	Pass
NVNT	2-DH5	2480	Ant1	1.283	0	Pass
NVNT	3-DH5	2402	Ant1	1.302	0	Pass
NVNT	3-DH5	2441	Ant1	1.308	0	Pass
NVNT	3-DH5	2480	Ant1	1.301	0	Pass

Test Graphs

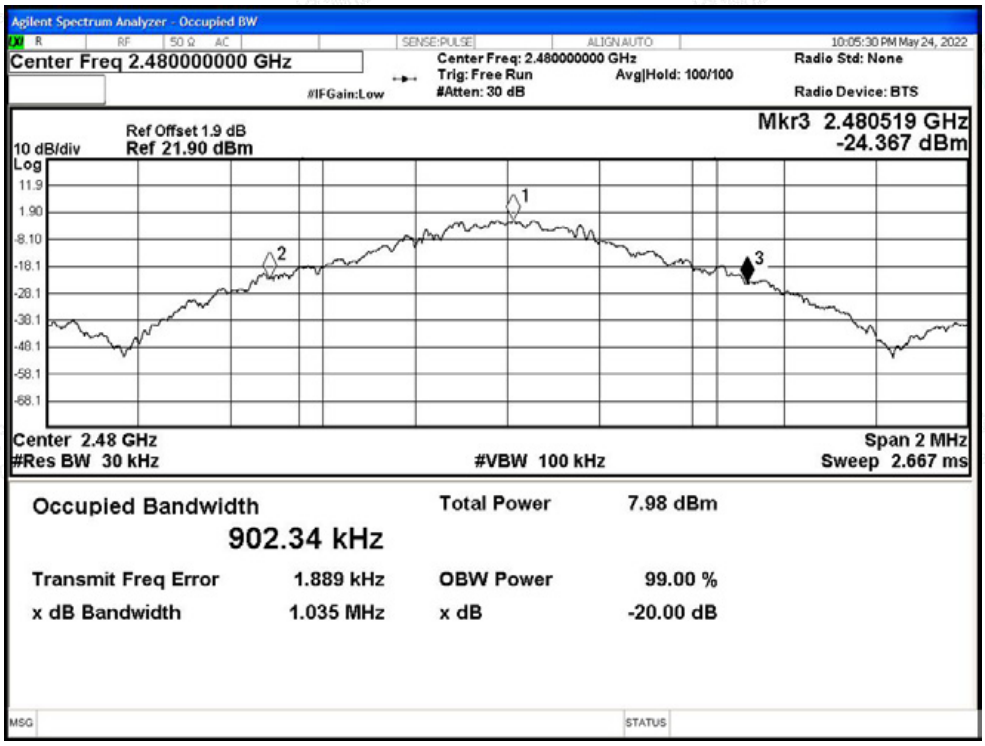
-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1



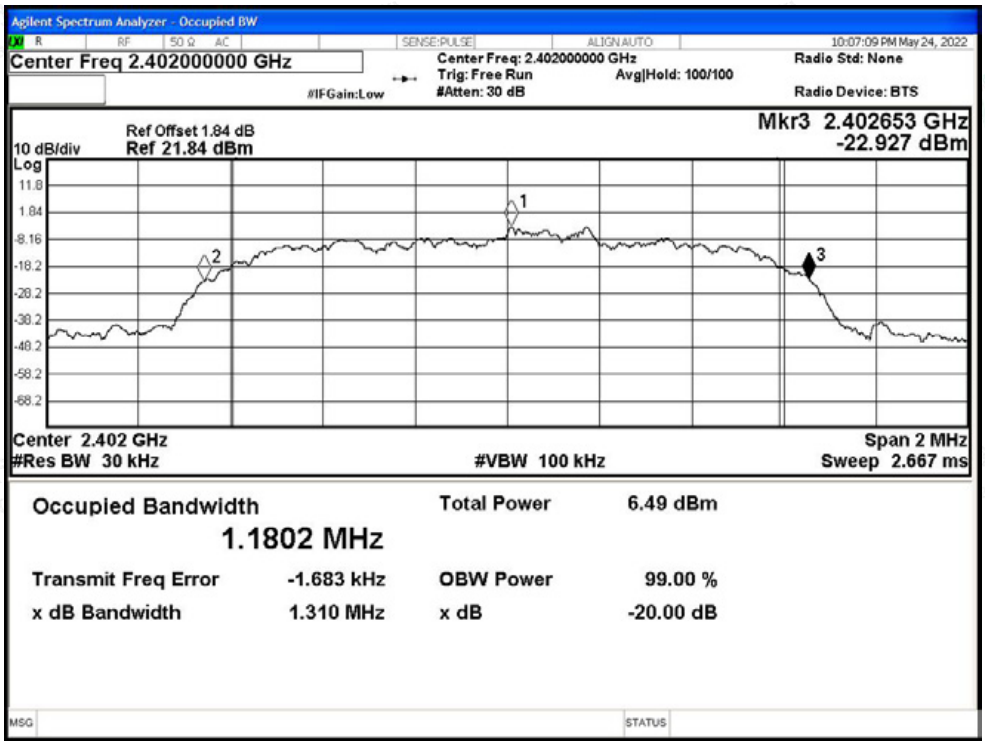
-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1



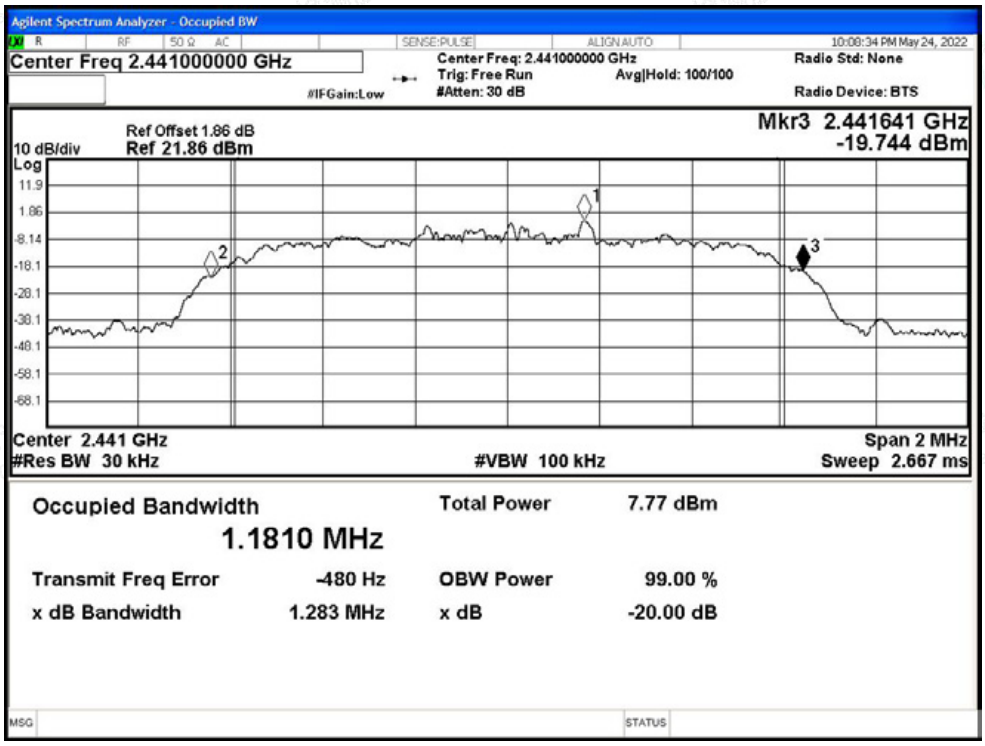
-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1



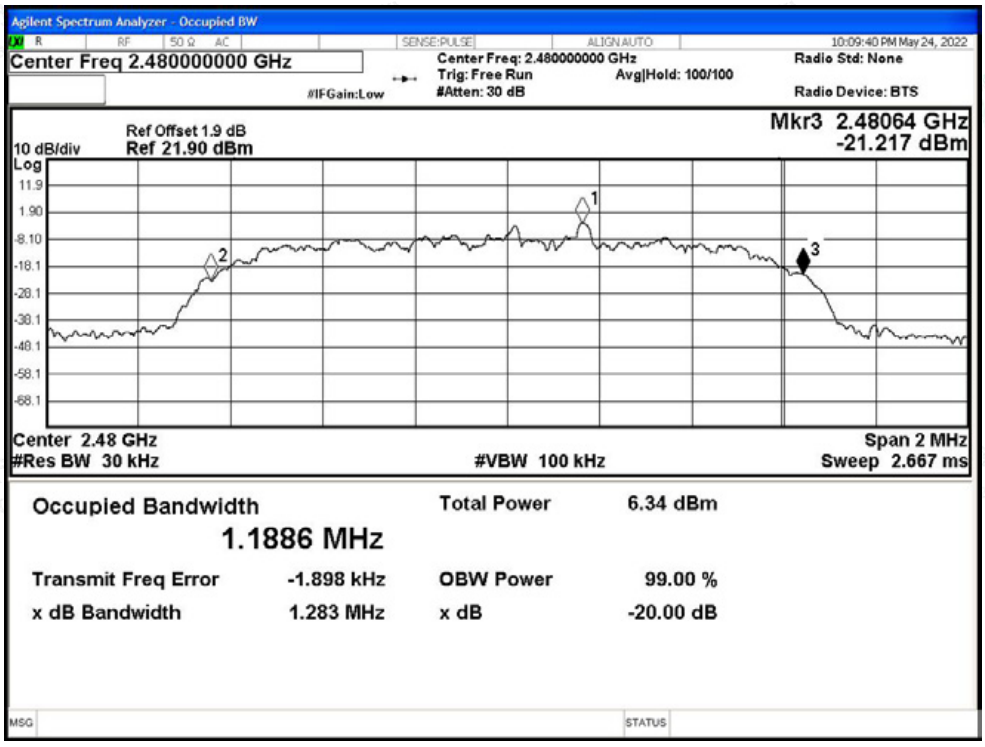
-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1



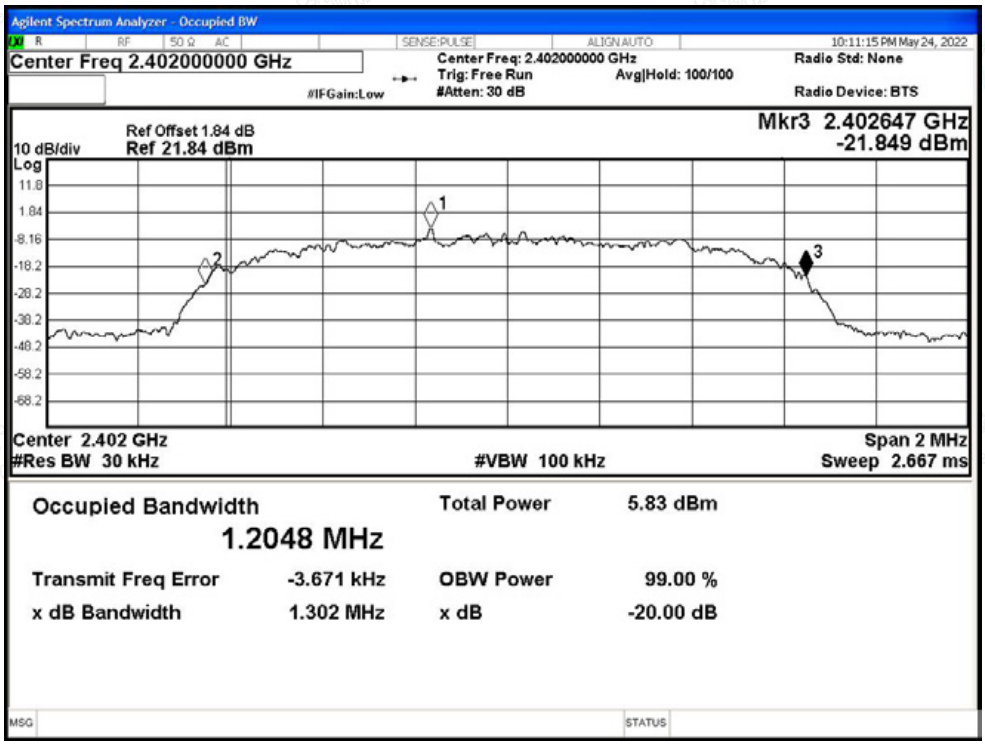
-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1



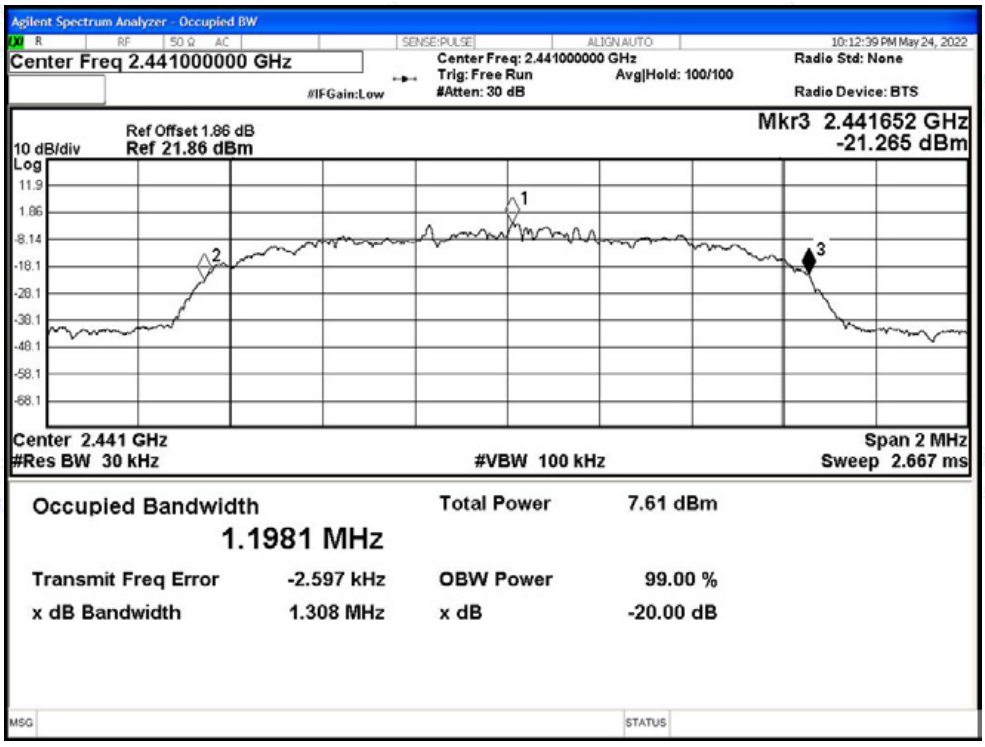
-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1



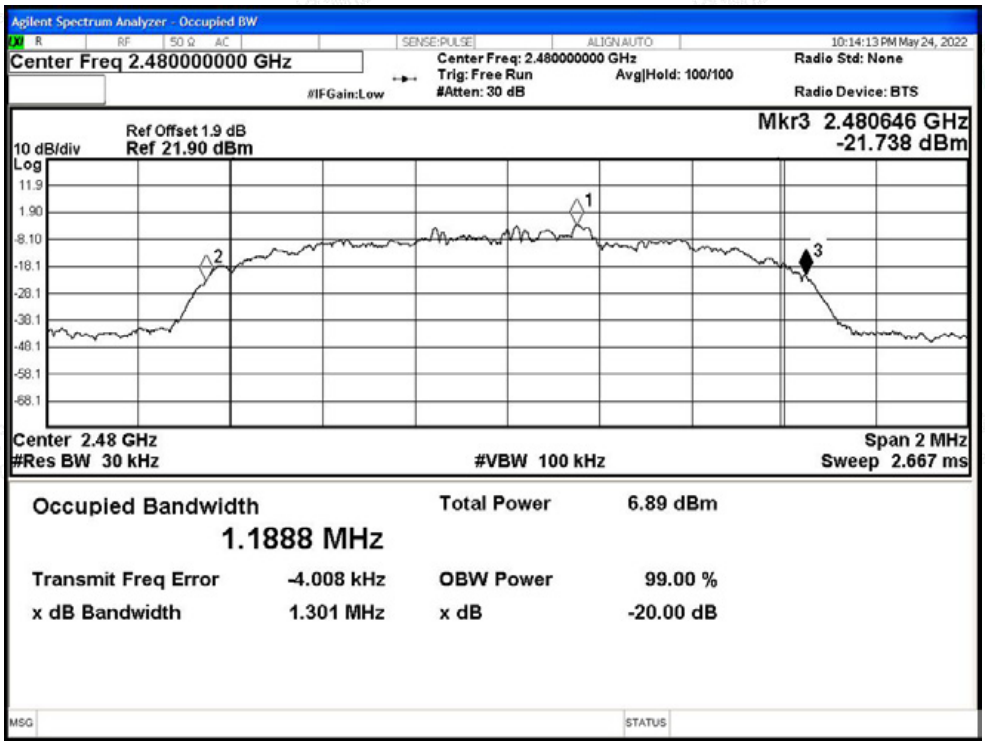
-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2480MHz Ant1

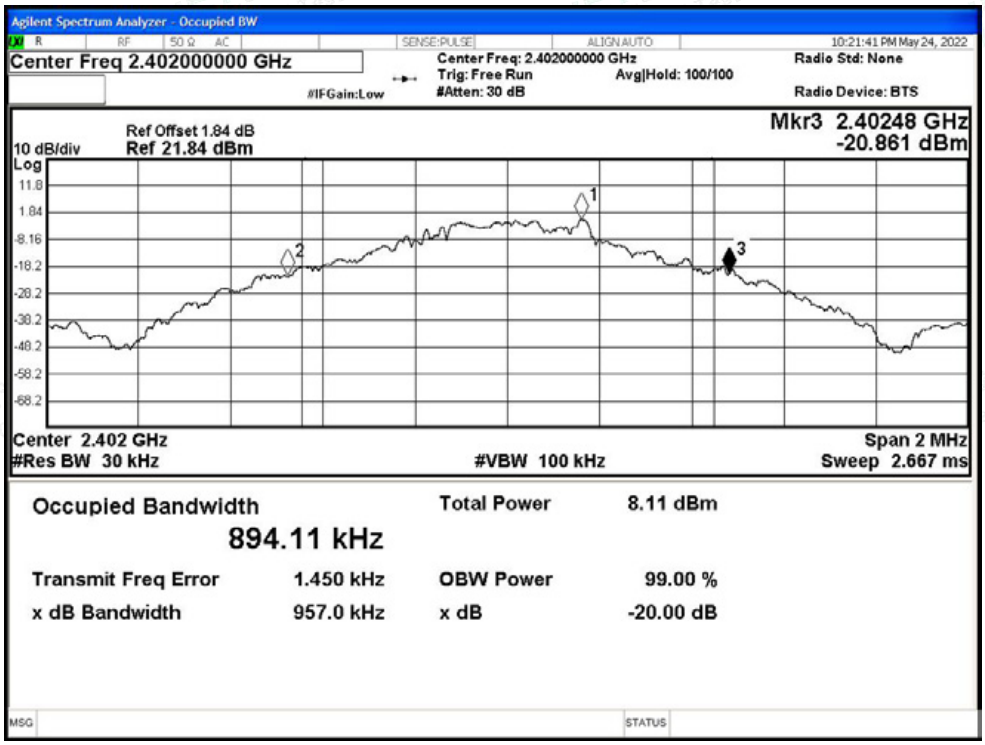


Right:

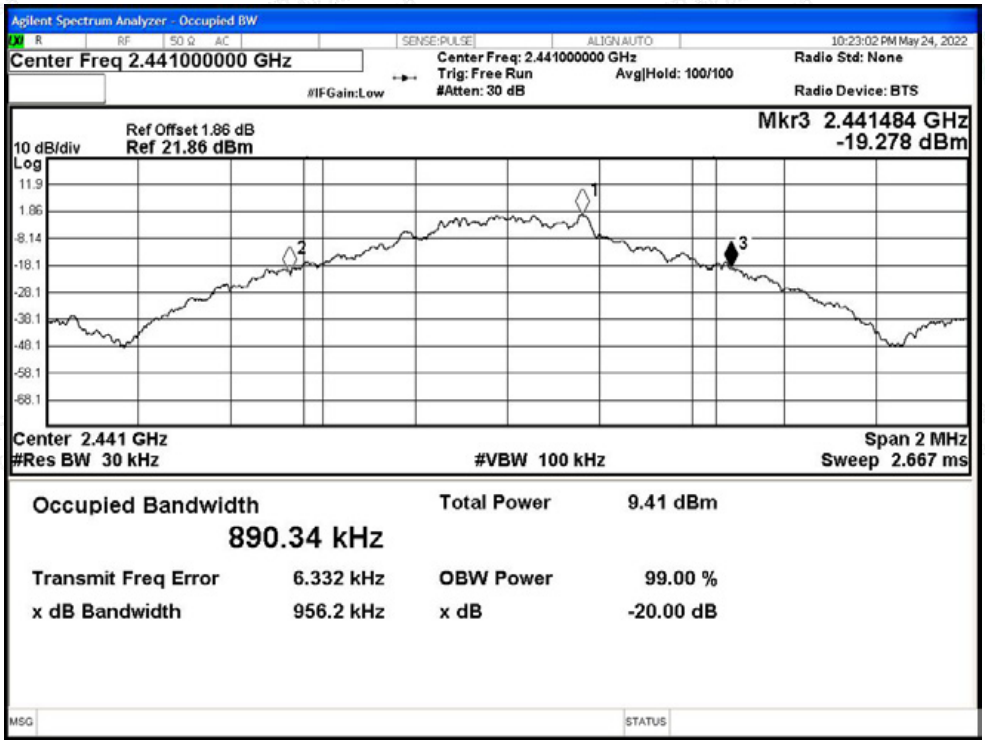
Condition	Mode	Frequency (MHz)	Antenna	20 dB Bandwidth (MHz)	Limit 20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	0.957	0	Pass
NVNT	1-DH5	2441	Ant1	0.956	0	Pass
NVNT	1-DH5	2480	Ant1	0.999	0	Pass
NVNT	2-DH5	2402	Ant1	1.315	0	Pass
NVNT	2-DH5	2441	Ant1	1.310	0	Pass
NVNT	2-DH5	2480	Ant1	1.275	0	Pass
NVNT	3-DH5	2402	Ant1	1.316	0	Pass
NVNT	3-DH5	2441	Ant1	1.314	0	Pass
NVNT	3-DH5	2480	Ant1	1.300	0	Pass

Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1

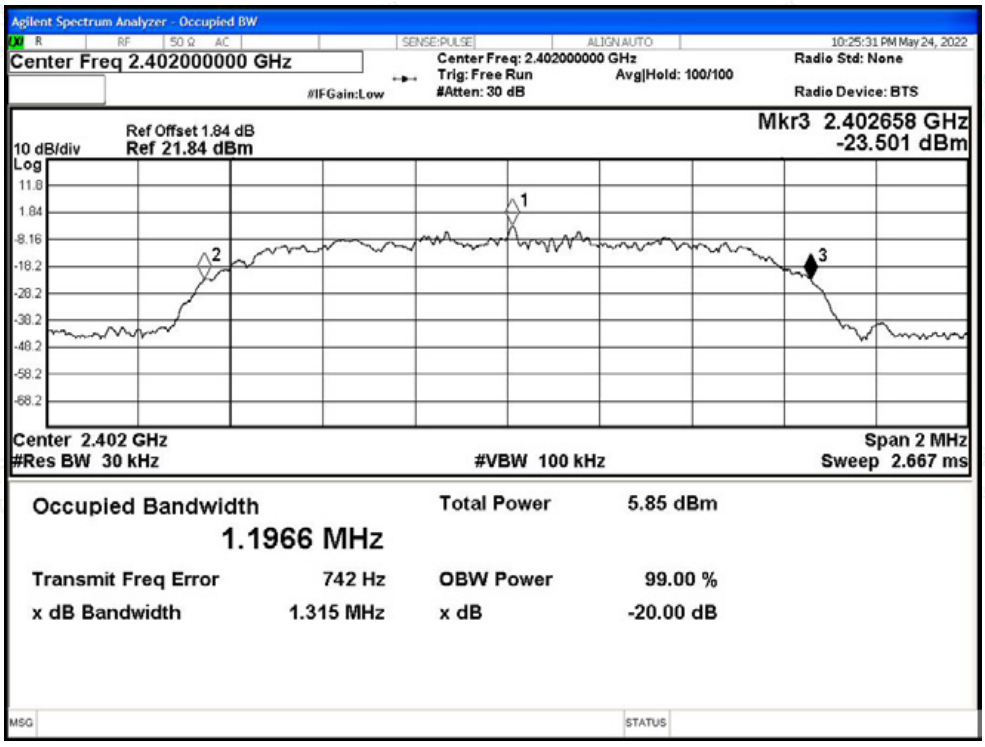


-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1

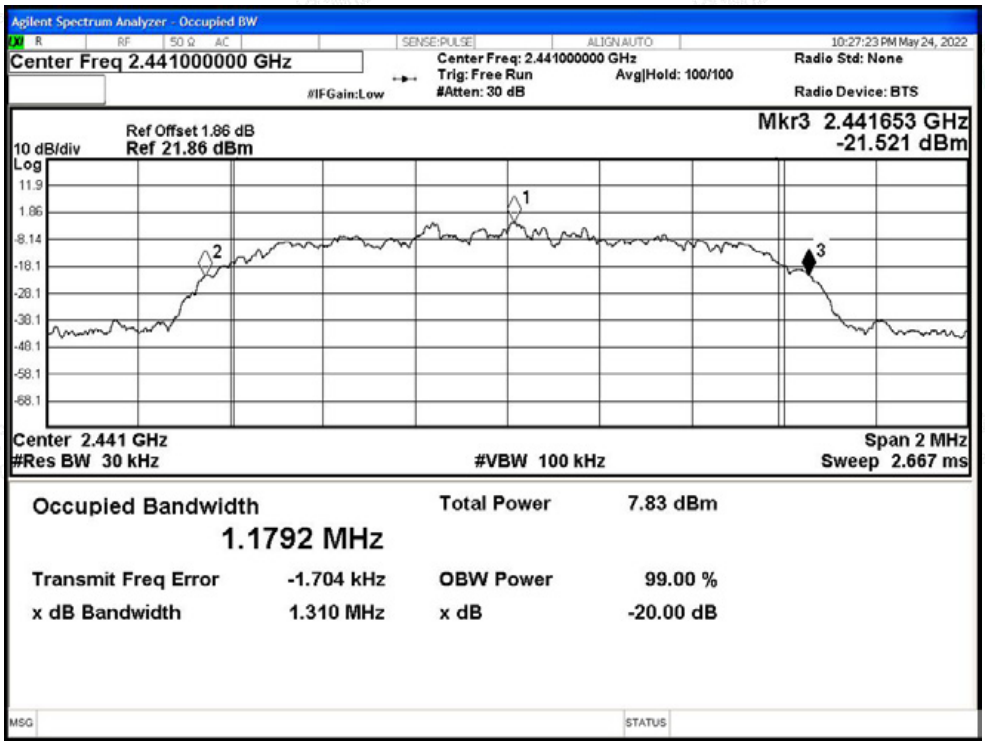


-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1

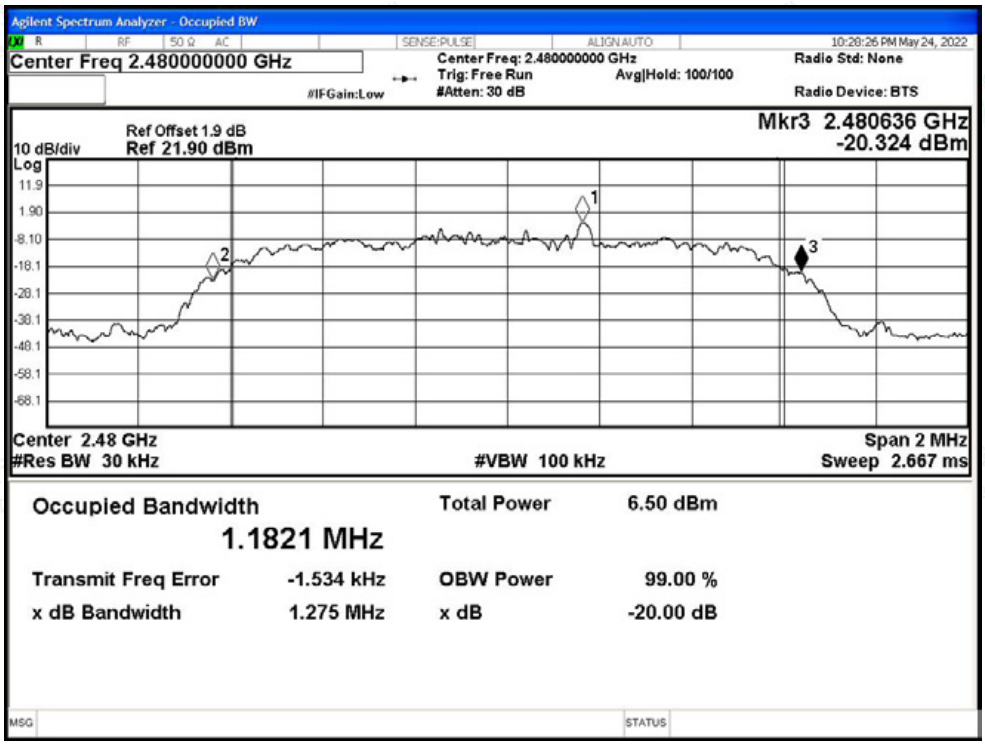
-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1



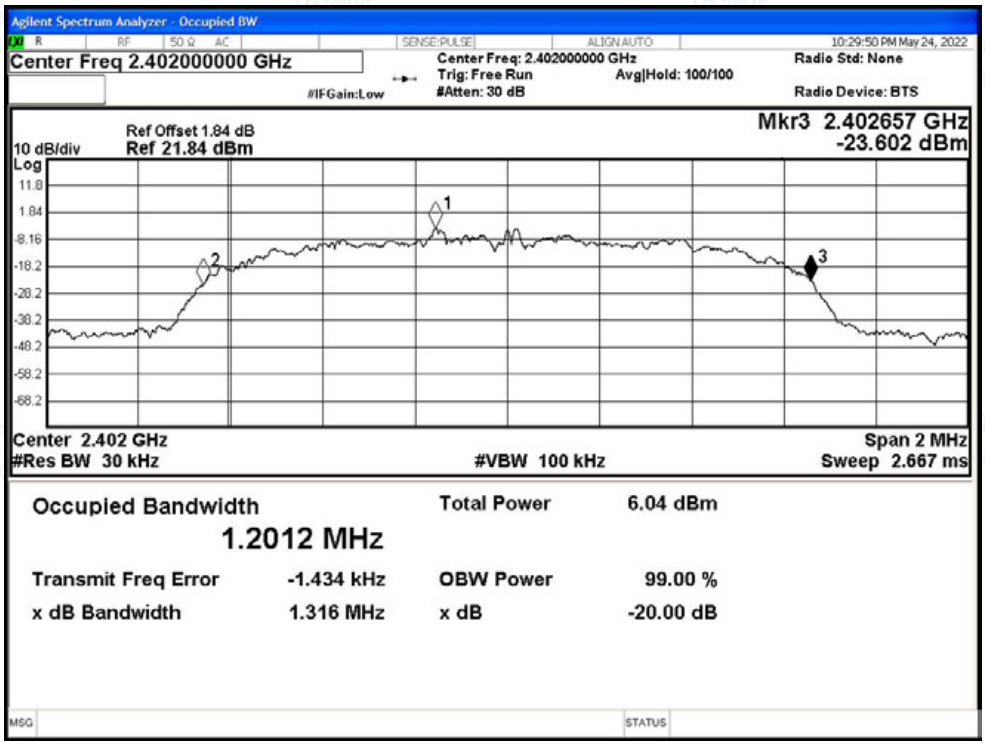
-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1



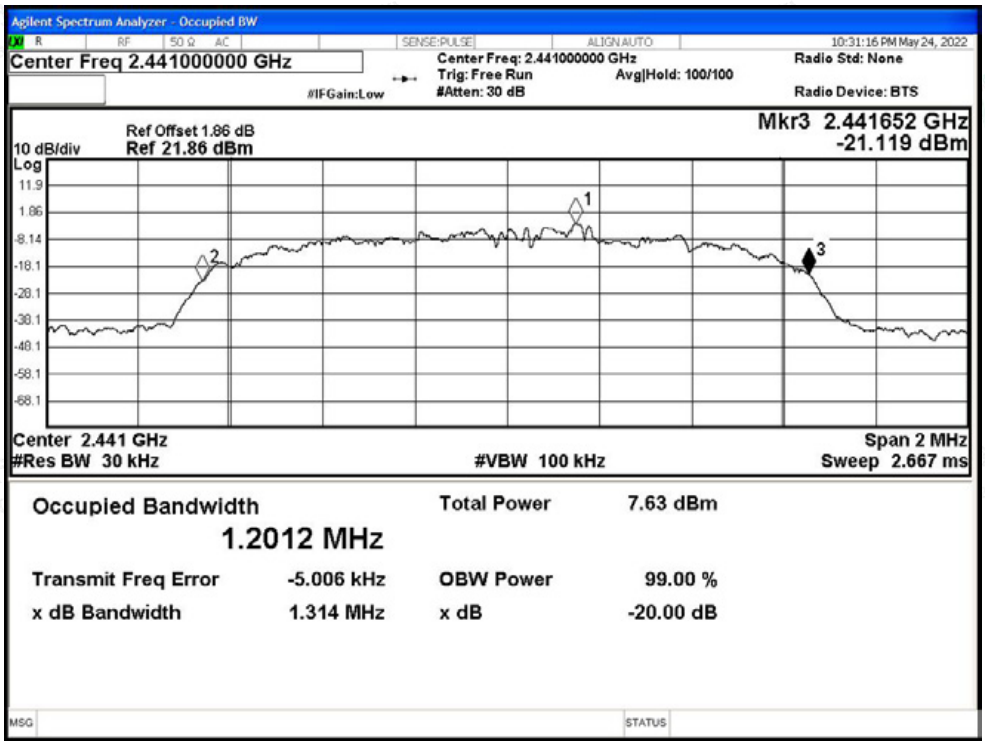
-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1



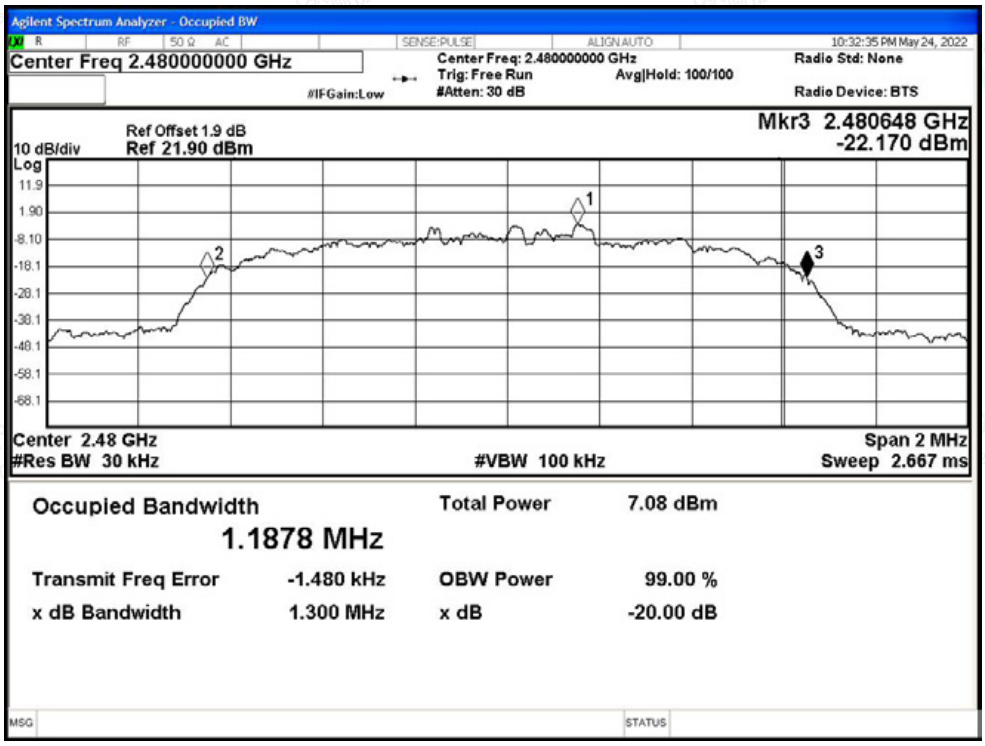
-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2480MHz Ant1



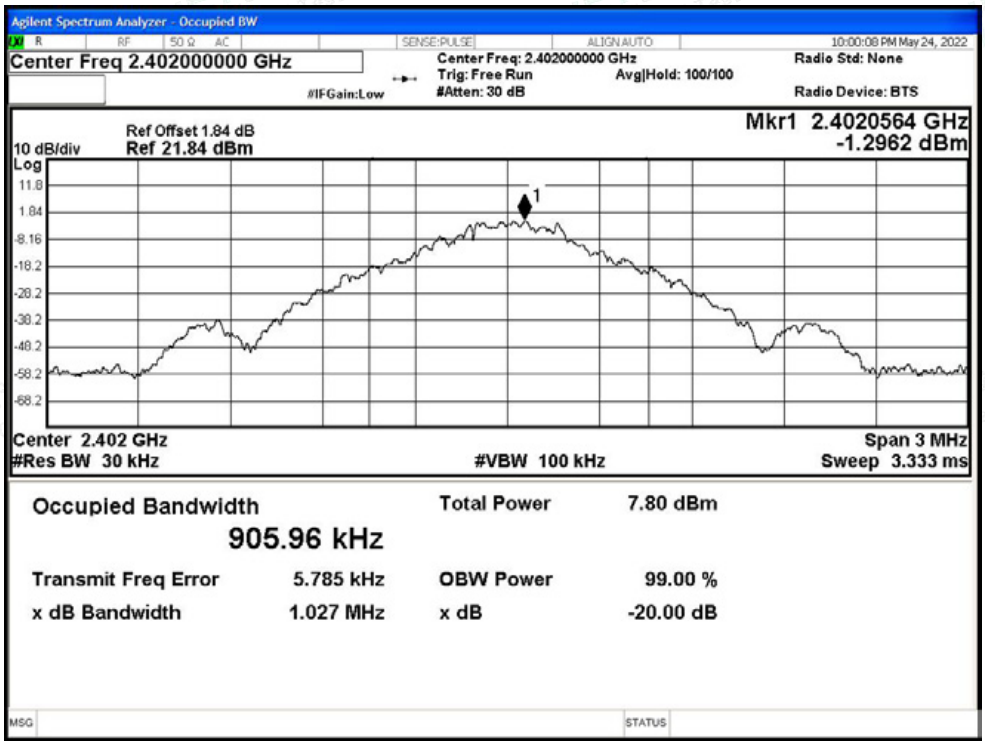
A.2 Occupied Channel Bandwidth

Left:

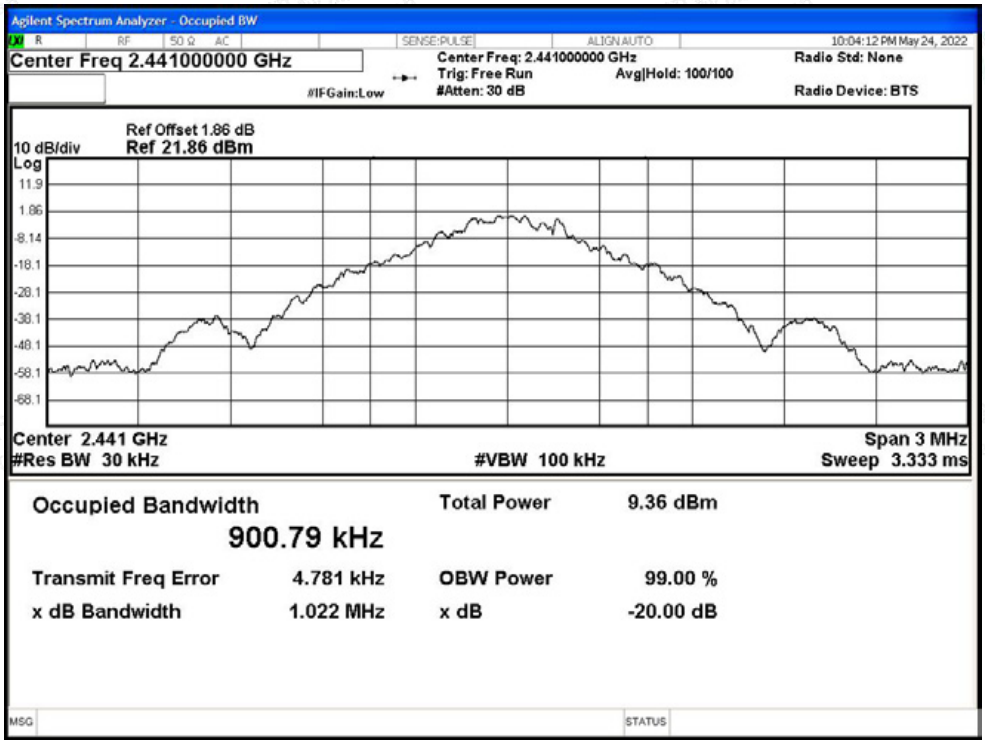
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	1-DH5	2402	Ant1	0.906
NVNT	1-DH5	2441	Ant1	0.901
NVNT	1-DH5	2480	Ant1	0.898
NVNT	2-DH5	2402	Ant1	1.199
NVNT	2-DH5	2441	Ant1	1.192
NVNT	2-DH5	2480	Ant1	1.18
NVNT	3-DH5	2402	Ant1	1.199
NVNT	3-DH5	2441	Ant1	1.201
NVNT	3-DH5	2480	Ant1	1.198

Test Graphs

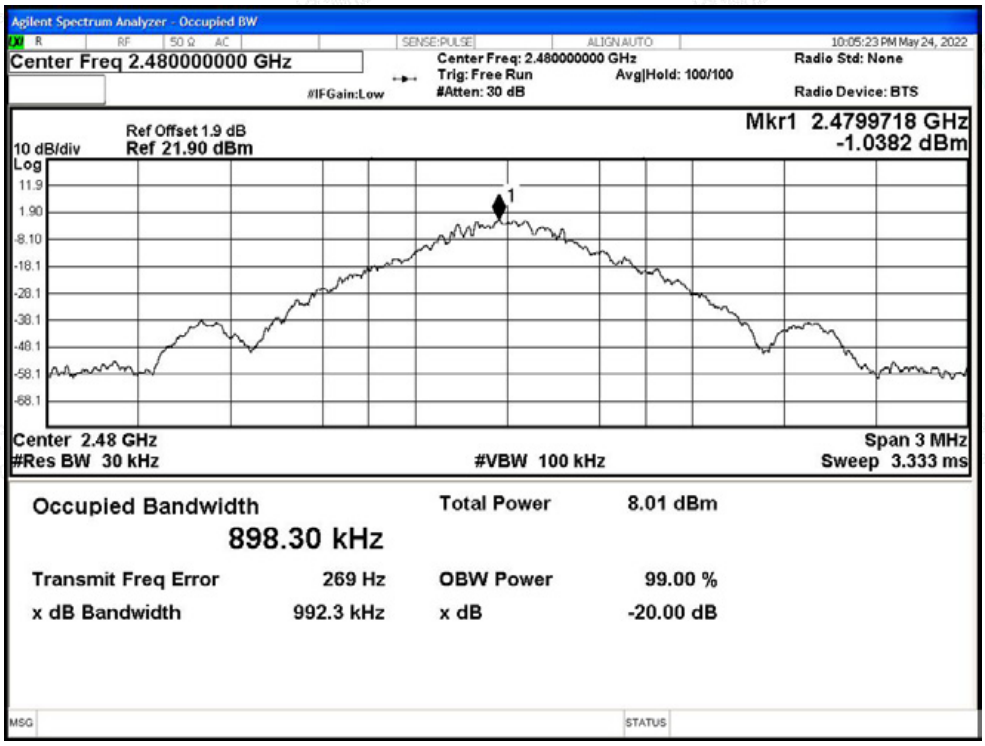
OBW NVNT 1-DH5 2402MHz Ant1



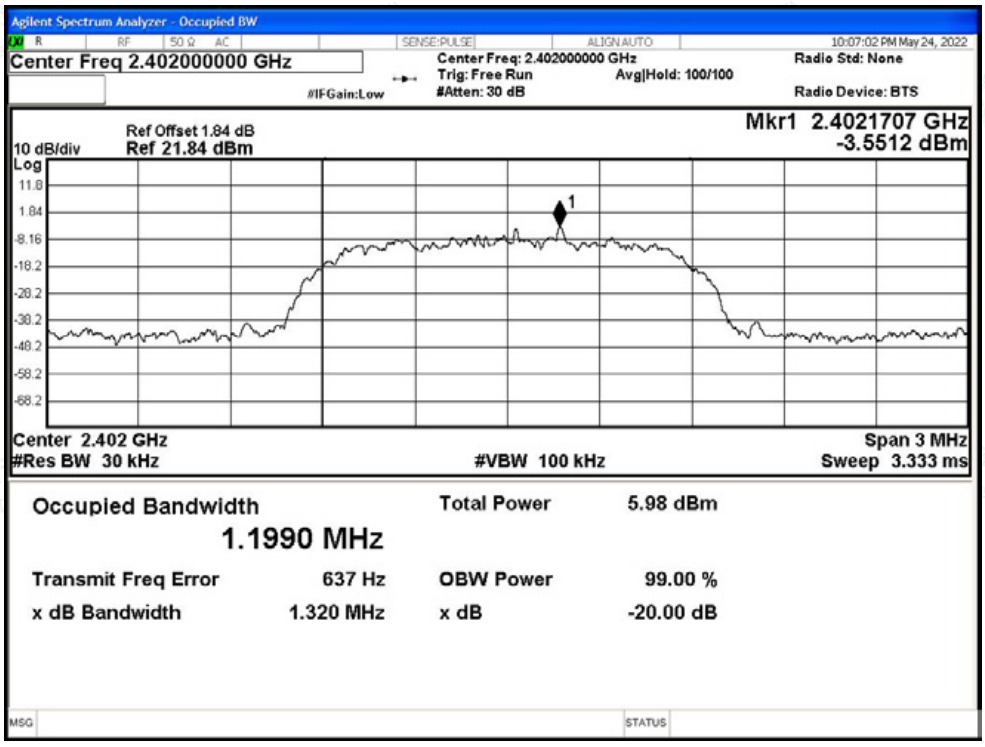
OBW NVNT 1-DH5 2441MHz Ant1



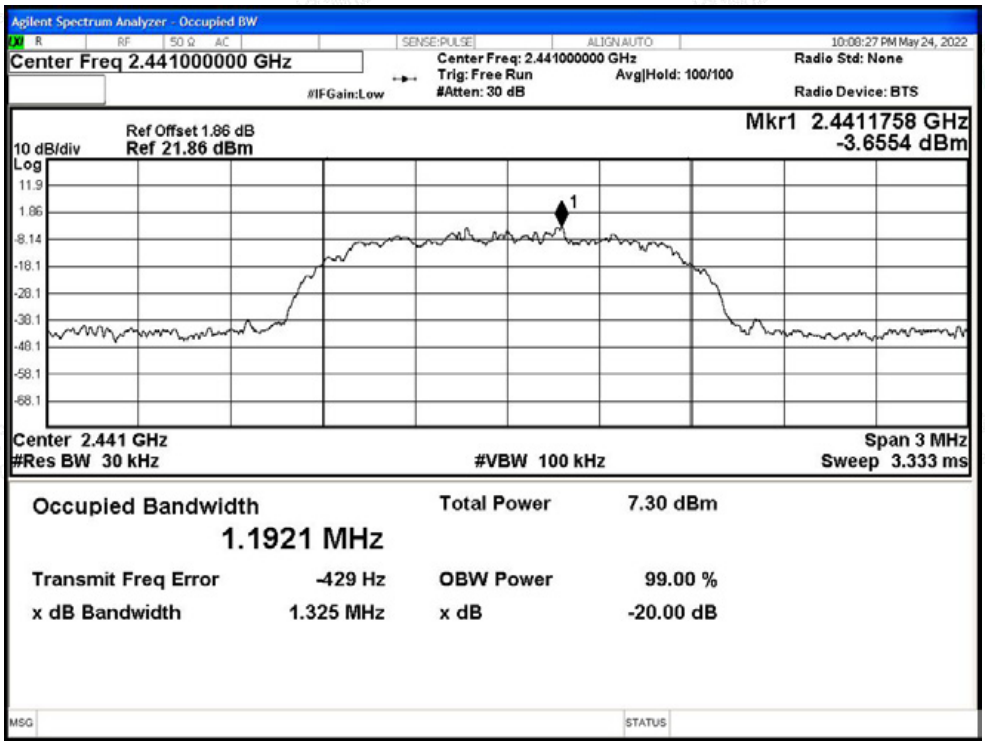
OBW NVNT 1-DH5 2480MHz Ant1



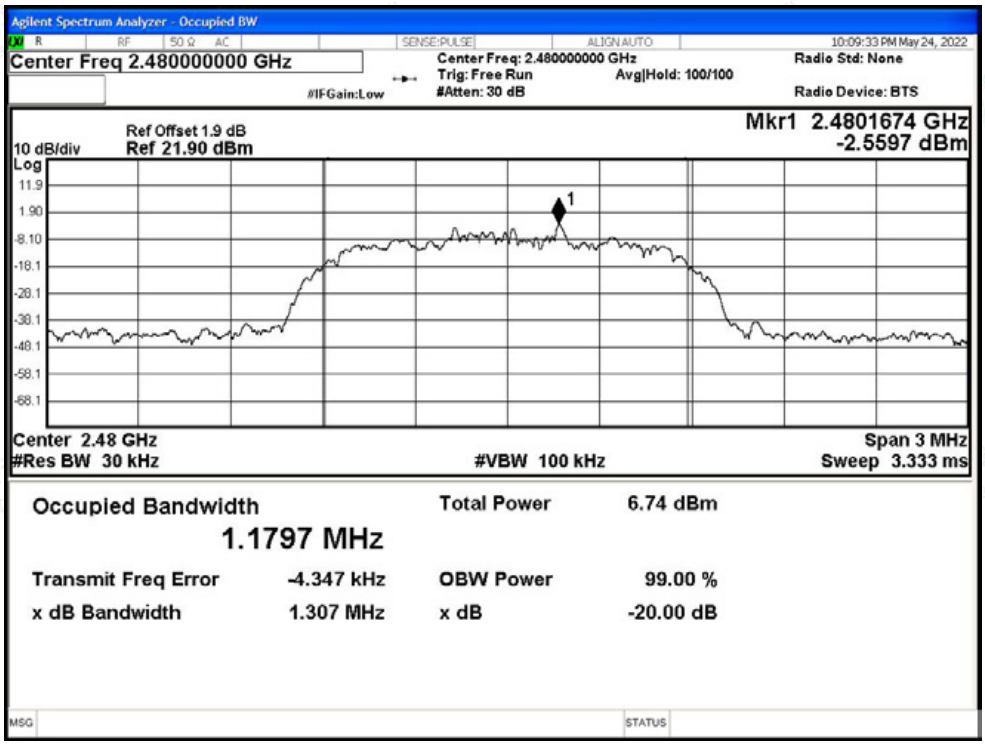
OBW NVNT 2-DH5 2402MHz Ant1



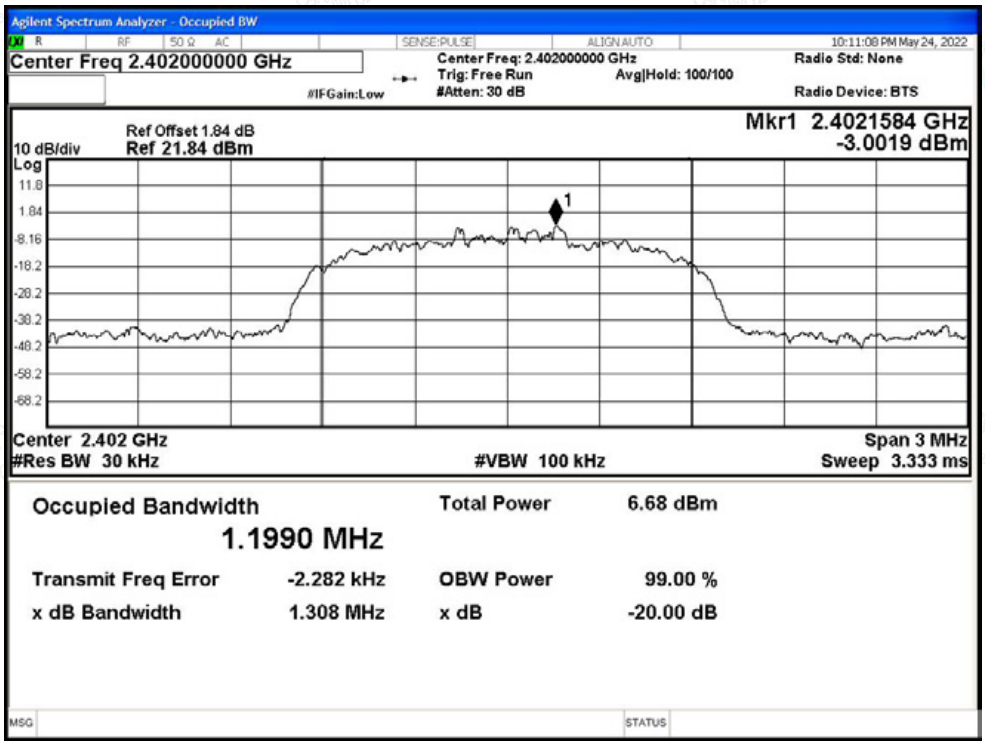
OBW NVNT 2-DH5 2441MHz Ant1



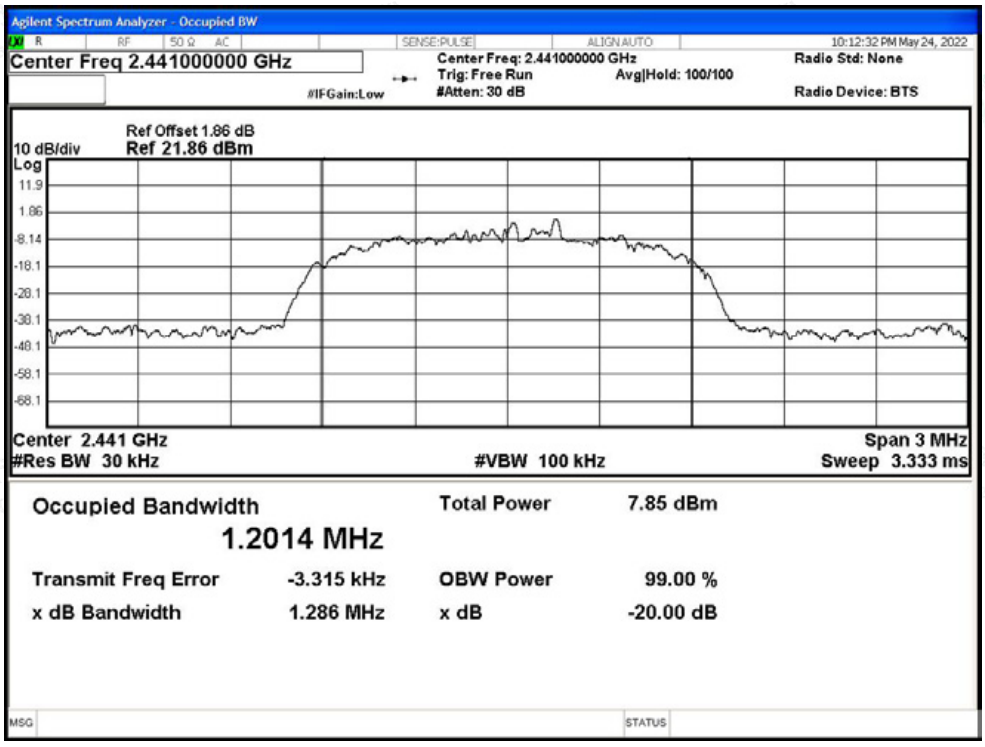
OBW NVNT 2-DH5 2480MHz Ant1



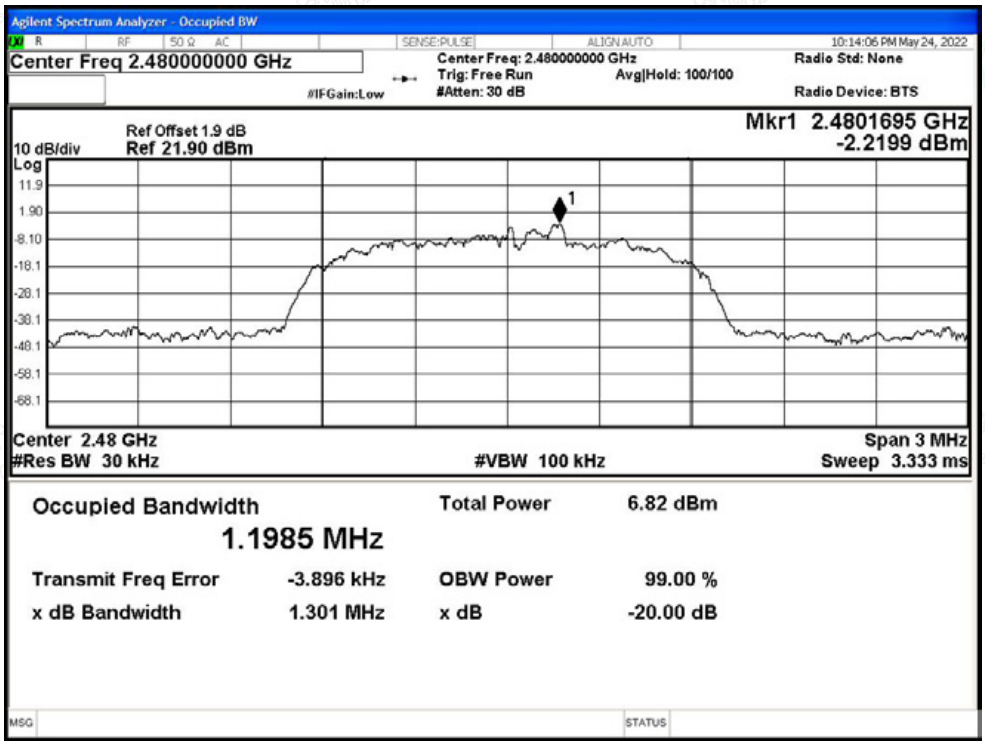
OBW NVNT 3-DH5 2402MHz Ant1



OBW NVNT 3-DH5 2441MHz Ant1



OBW NVNT 3-DH5 2480MHz Ant1

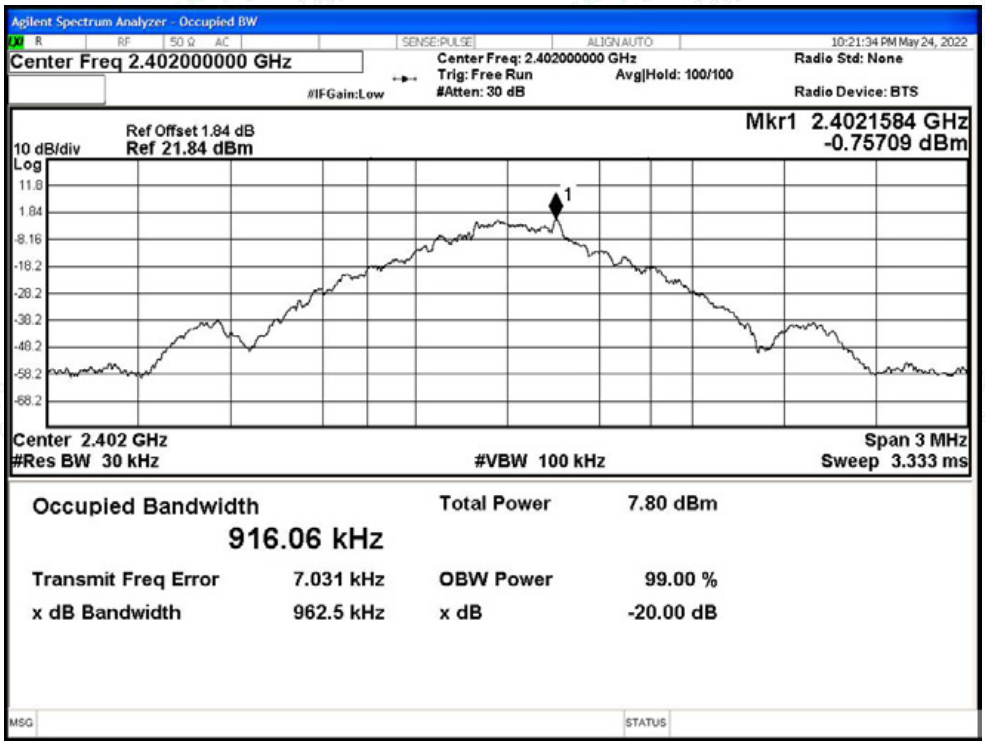


Right:

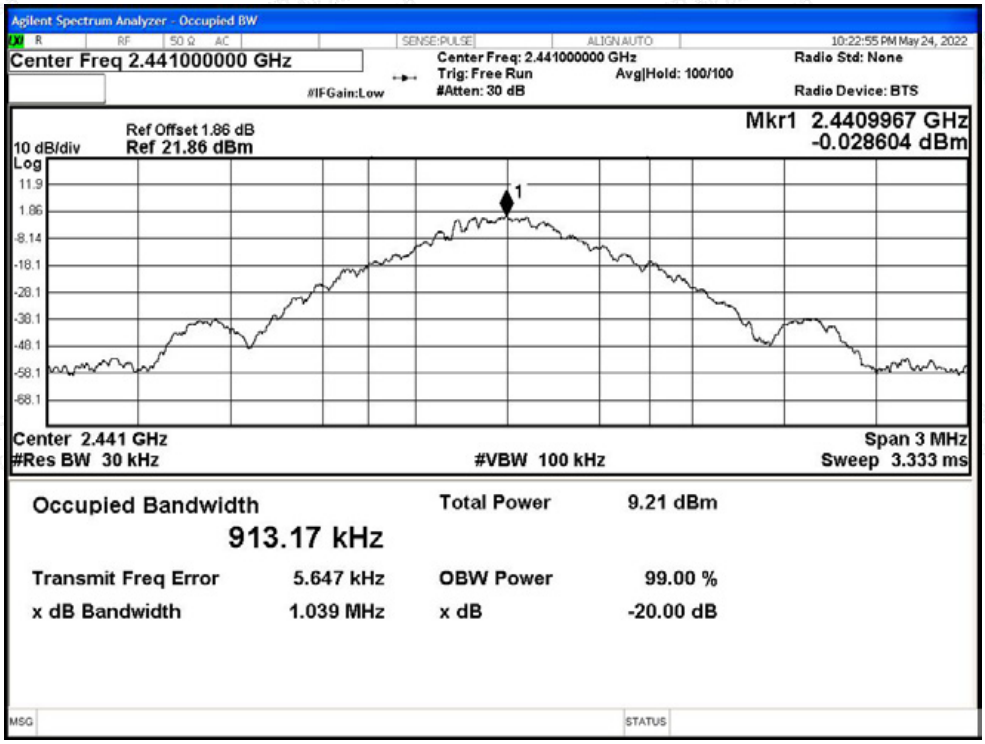
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	1-DH5	2402	Ant1	0.916
NVNT	1-DH5	2441	Ant1	0.913
NVNT	1-DH5	2480	Ant1	0.899
NVNT	2-DH5	2402	Ant1	1.188
NVNT	2-DH5	2441	Ant1	1.182
NVNT	2-DH5	2480	Ant1	1.193
NVNT	3-DH5	2402	Ant1	1.207
NVNT	3-DH5	2441	Ant1	1.196
NVNT	3-DH5	2480	Ant1	1.207

Test Graphs

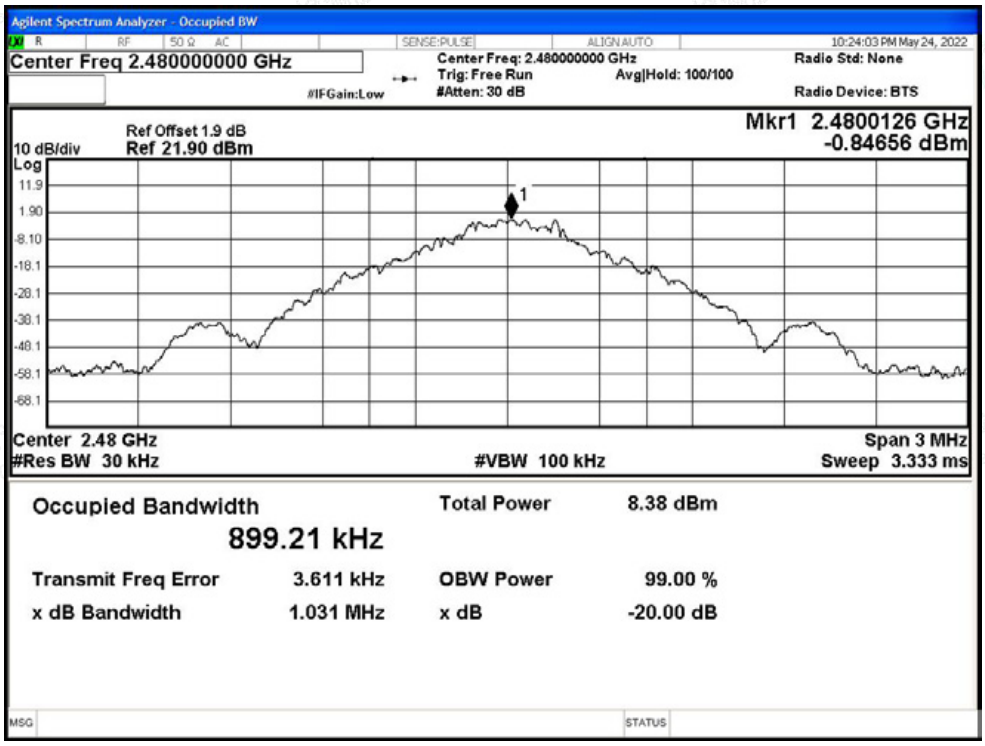
OBW NVNT 1-DH5 2402MHz Ant1



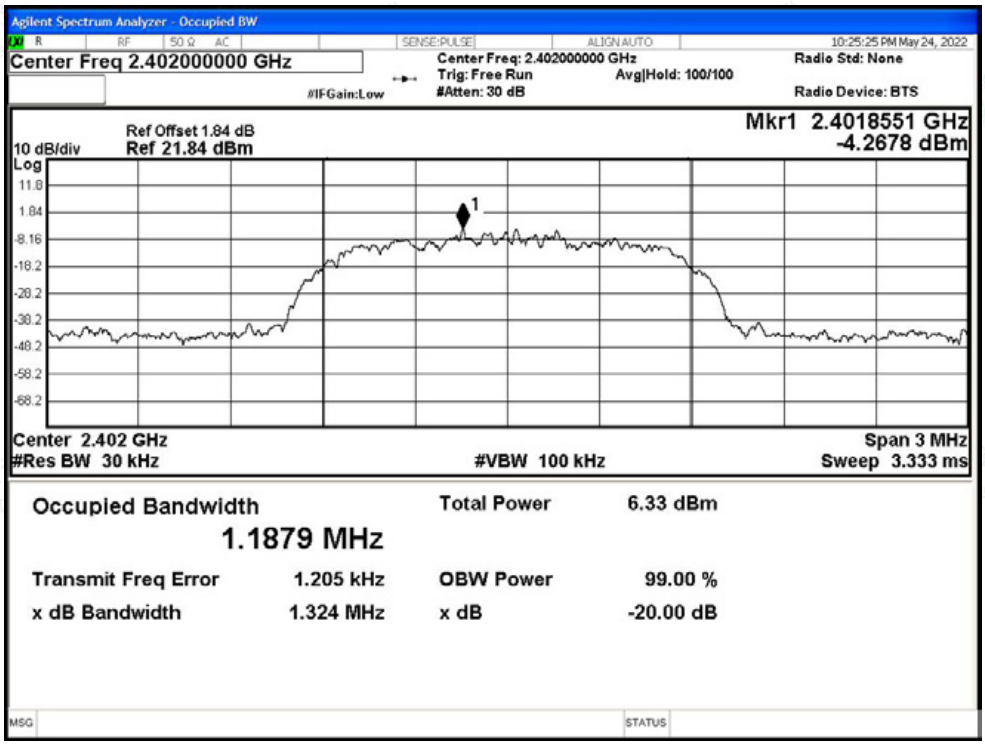
OBW NVNT 1-DH5 2441MHz Ant1



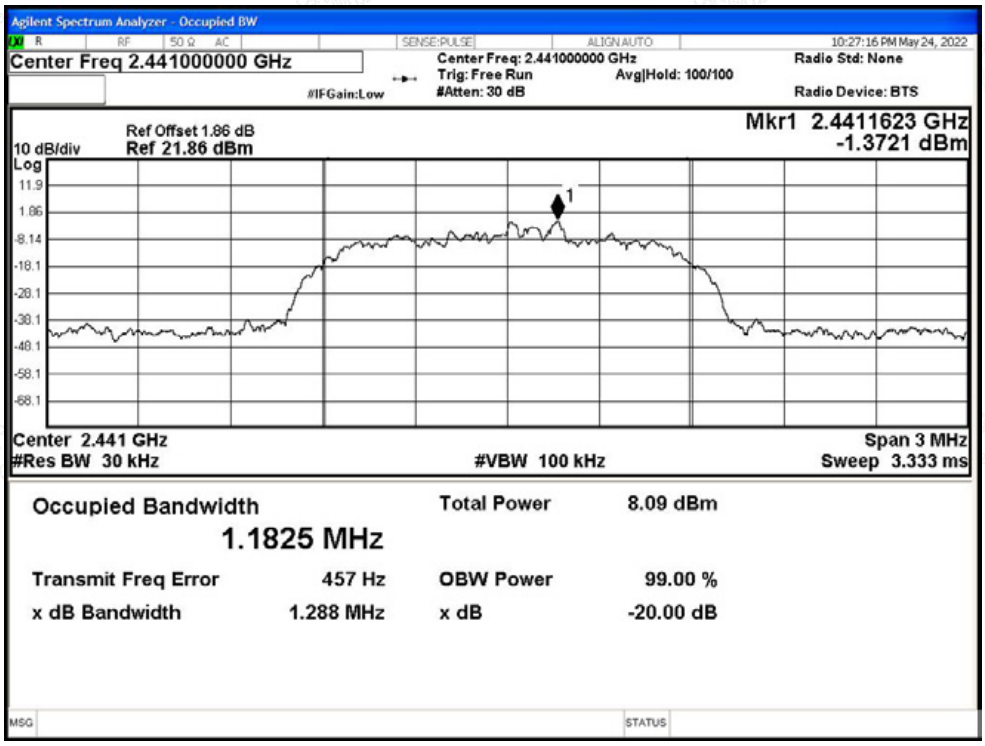
OBW NVNT 1-DH5 2480MHz Ant1



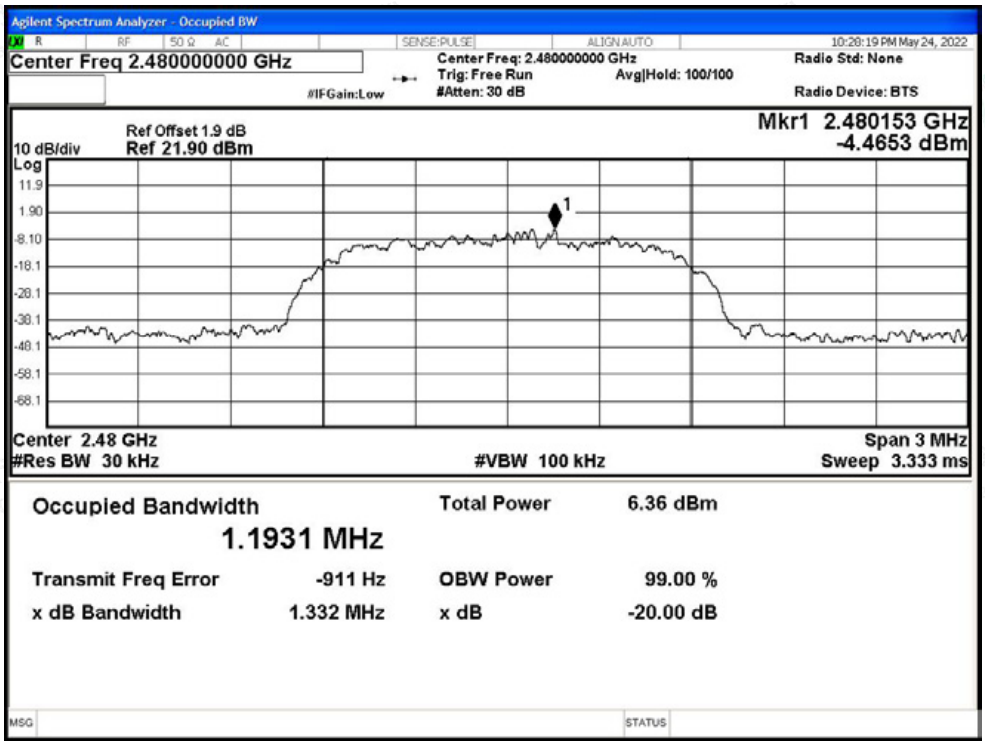
OBW NVNT 2-DH5 2402MHz Ant1



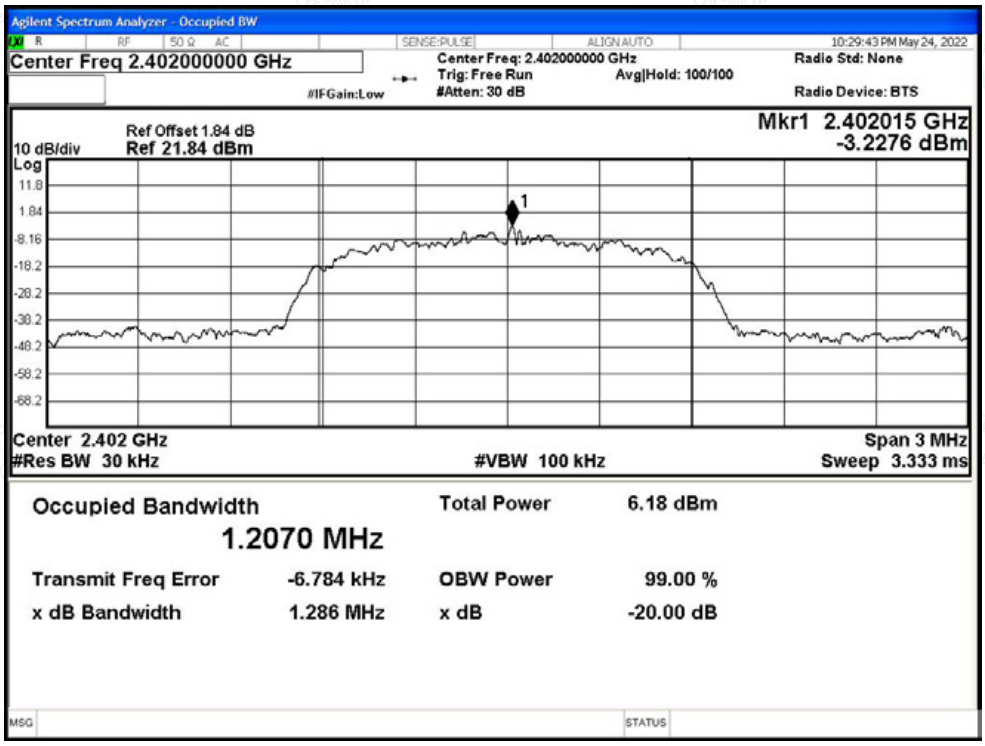
OBW NVNT 2-DH5 2441MHz Ant1



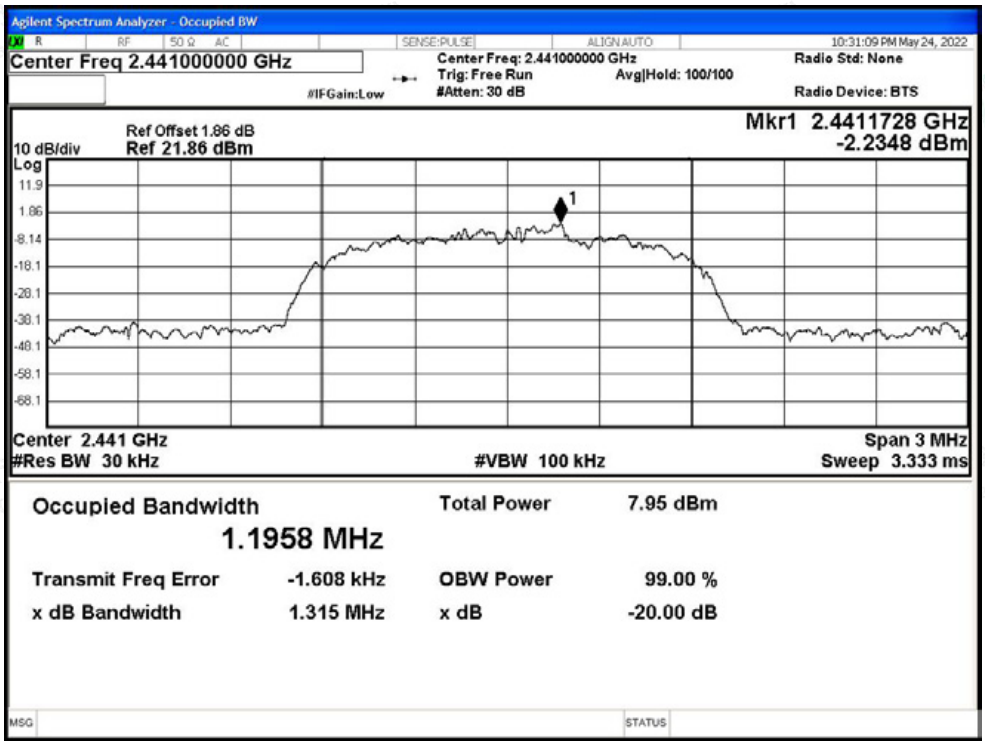
OBW NVNT 2-DH5 2480MHz Ant1



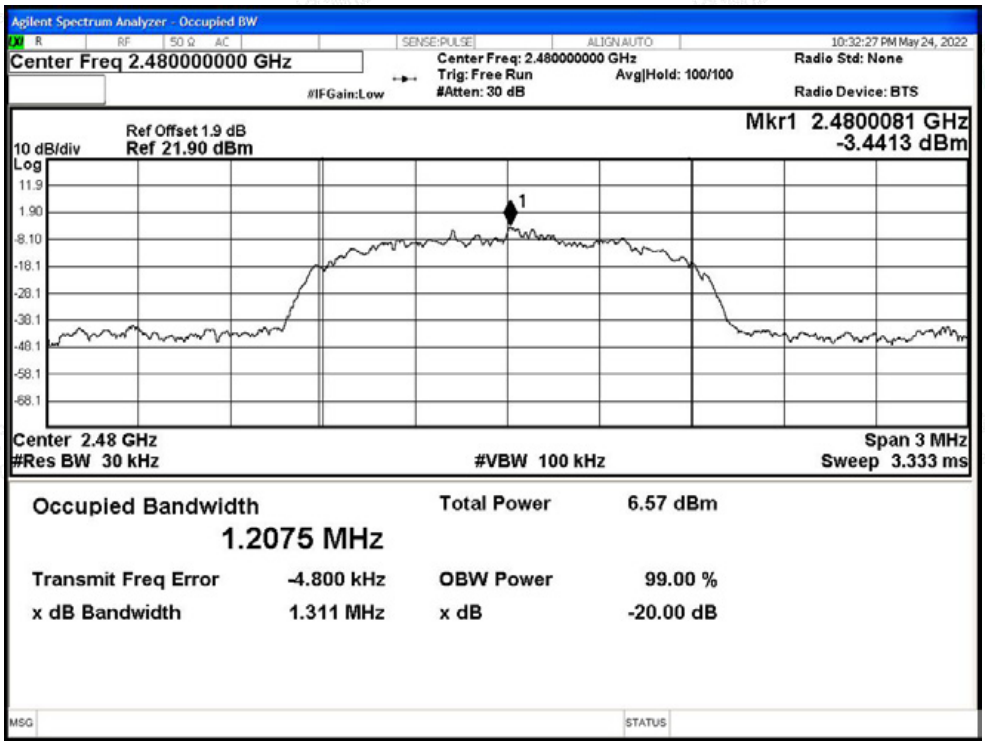
OBW NVNT 3-DH5 2402MHz Ant1



OBW NVNT 3-DH5 2441MHz Ant1



OBW NVNT 3-DH5 2480MHz Ant1



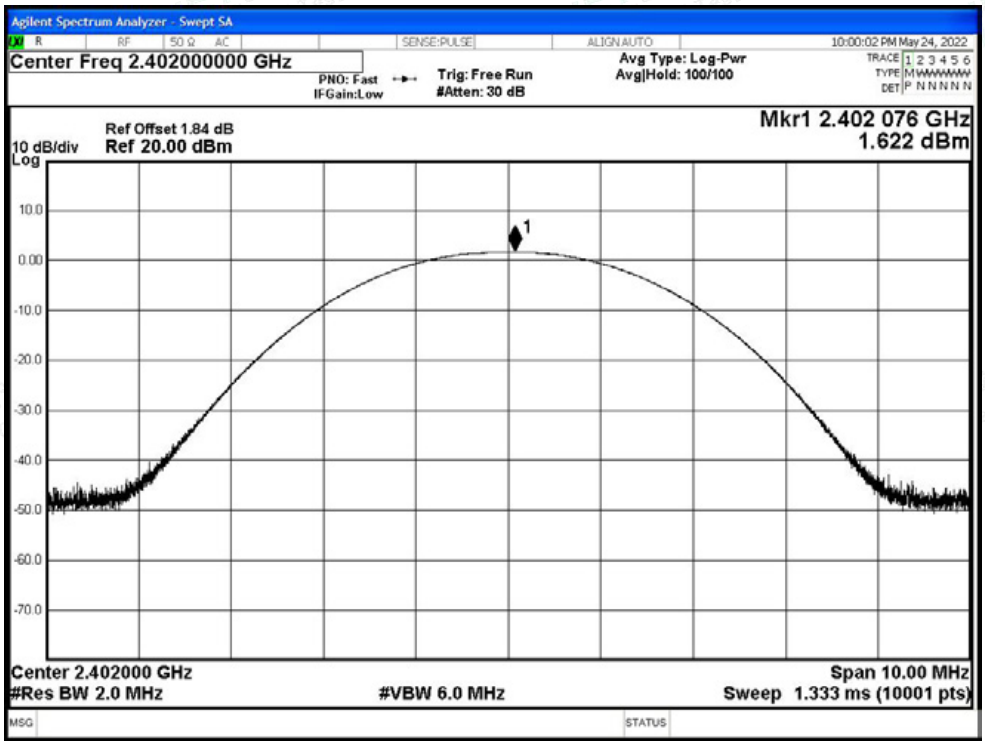
A.3 Maximum Conducted Output Power

Left:

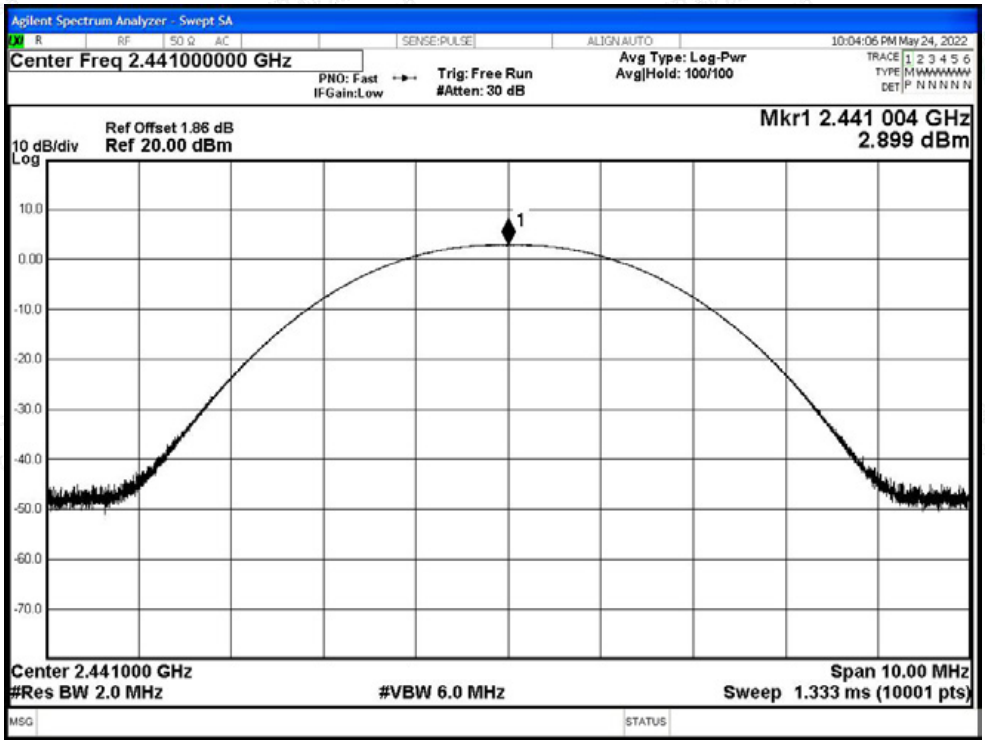
Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	1.62	21	Pass
NVNT	1-DH5	2441	Ant1	2.90	21	Pass
NVNT	1-DH5	2480	Ant1	1.81	21	Pass
NVNT	2-DH5	2402	Ant1	1.42	21	Pass
NVNT	2-DH5	2441	Ant1	2.68	21	Pass
NVNT	2-DH5	2480	Ant1	1.62	21	Pass
NVNT	3-DH5	2402	Ant1	1.49	21	Pass
NVNT	3-DH5	2441	Ant1	2.80	21	Pass
NVNT	3-DH5	2480	Ant1	1.73	21	Pass

Test Graphs

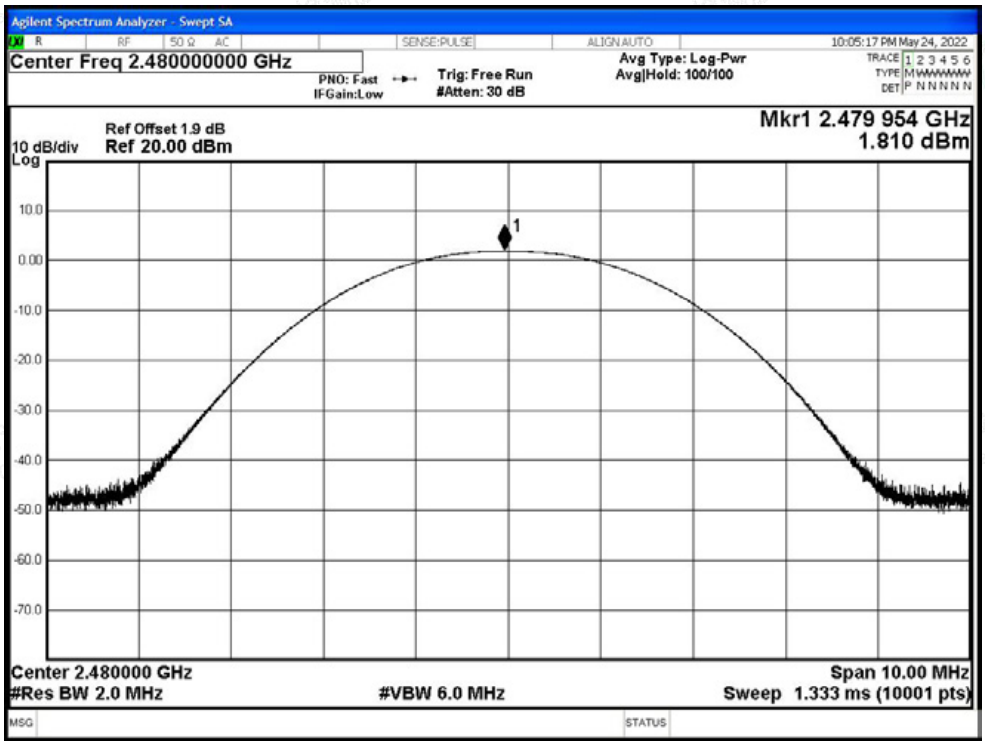
Power NVNT 1-DH5 2402MHz Ant1



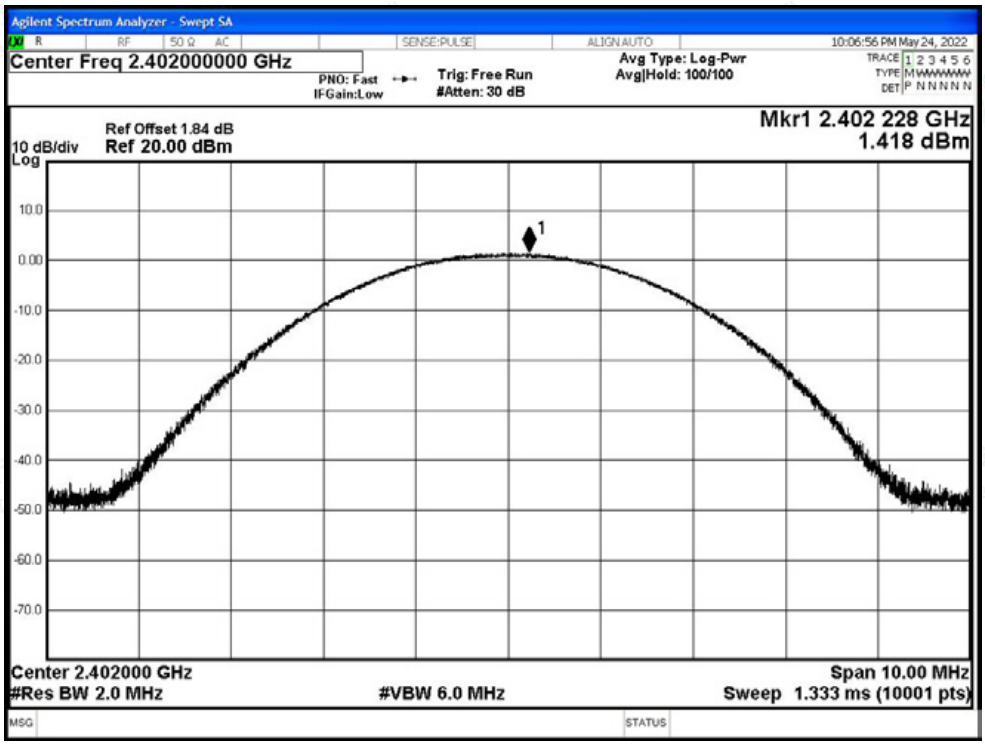
Power NVNT 1-DH5 2441MHz Ant1



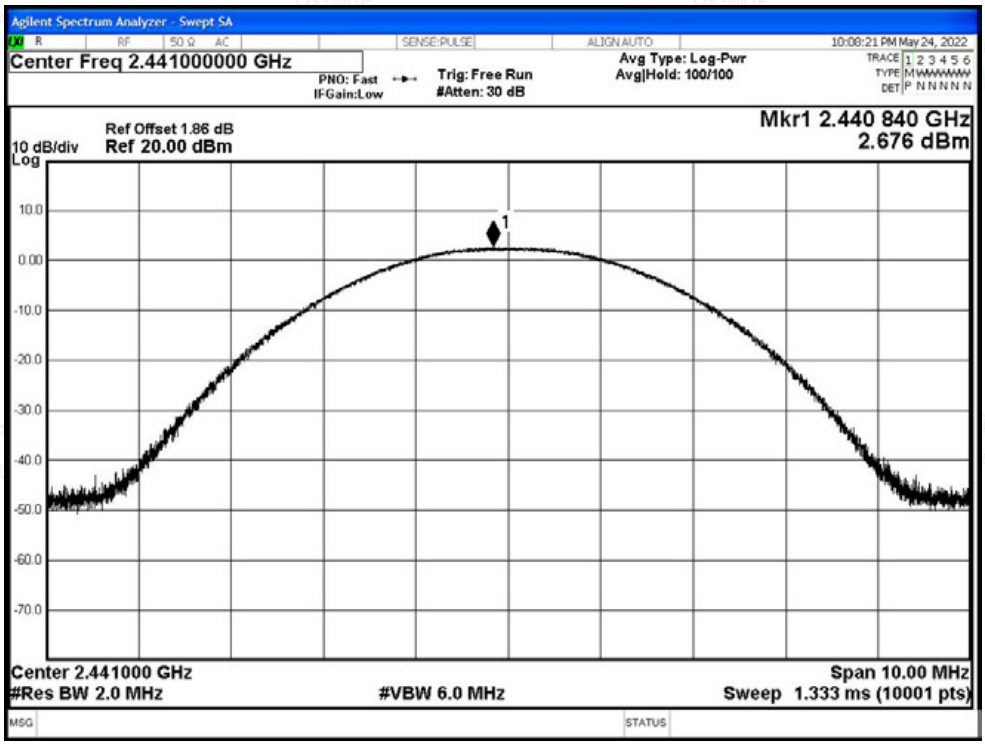
Power NVNT 1-DH5 2480MHz Ant1



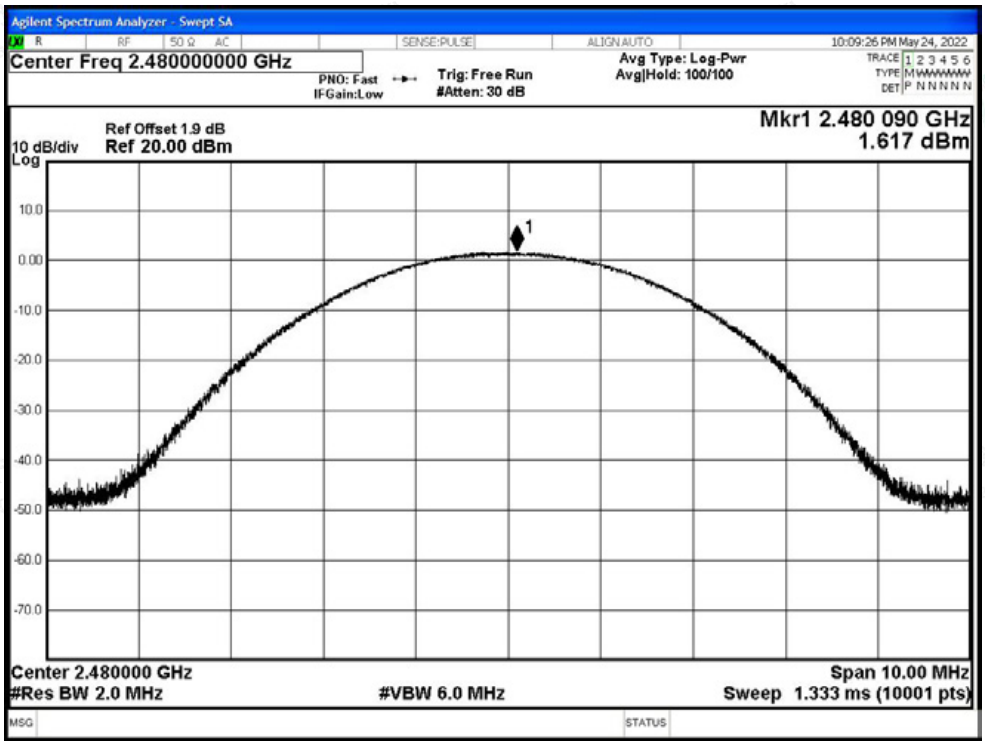
Power NVNT 2-DH5 2402MHz Ant1



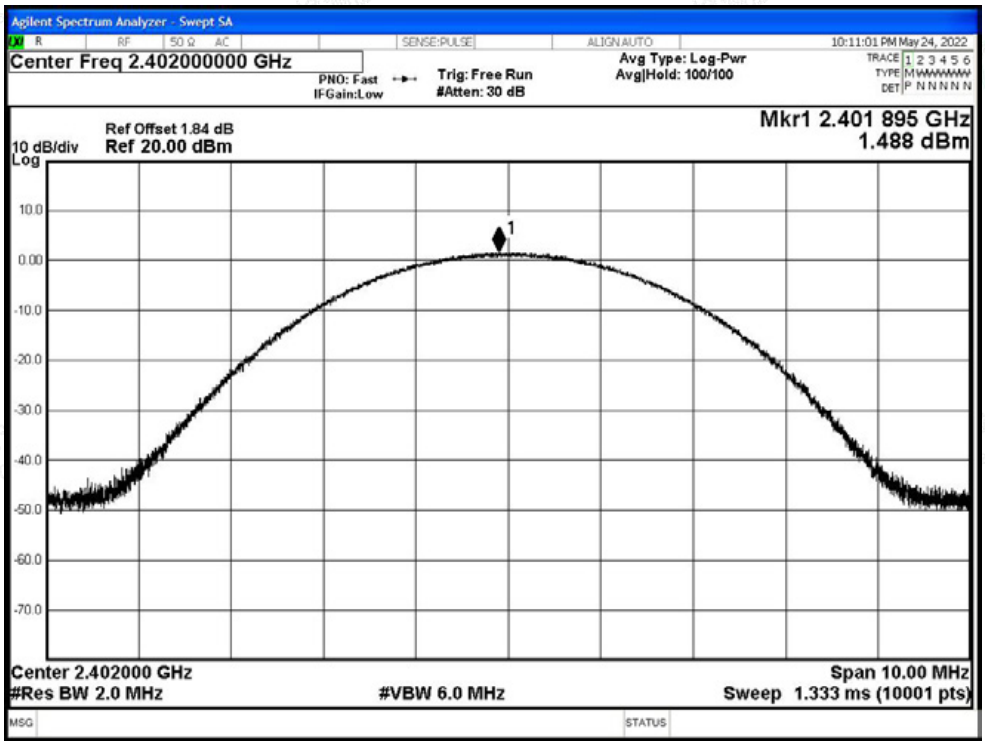
Power NVNT 2-DH5 2441MHz Ant1



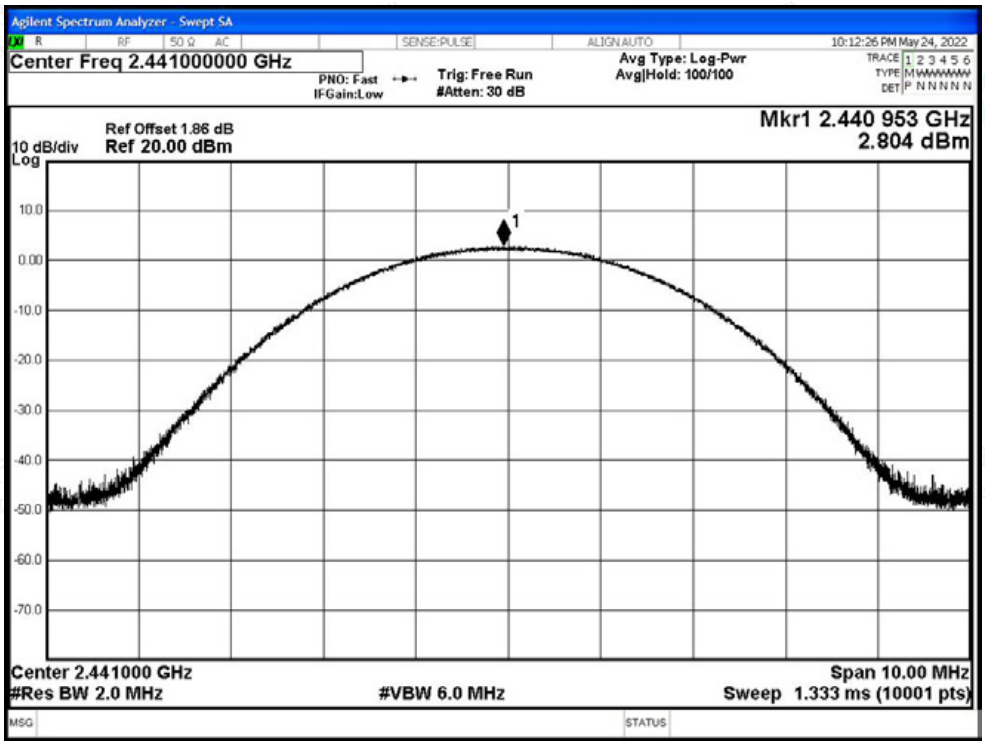
Power NVNT 2-DH5 2480MHz Ant1



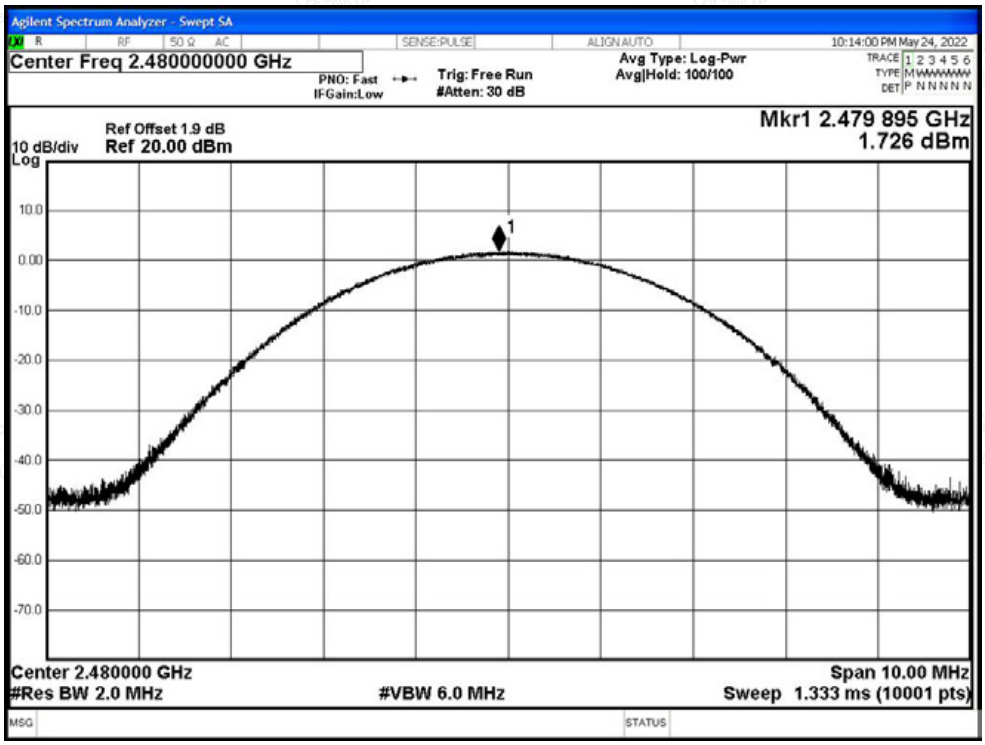
Power NVNT 3-DH5 2402MHz Ant1



Power NVNT 3-DH5 2441MHz Ant1



Power NVNT 3-DH5 2480MHz Ant1

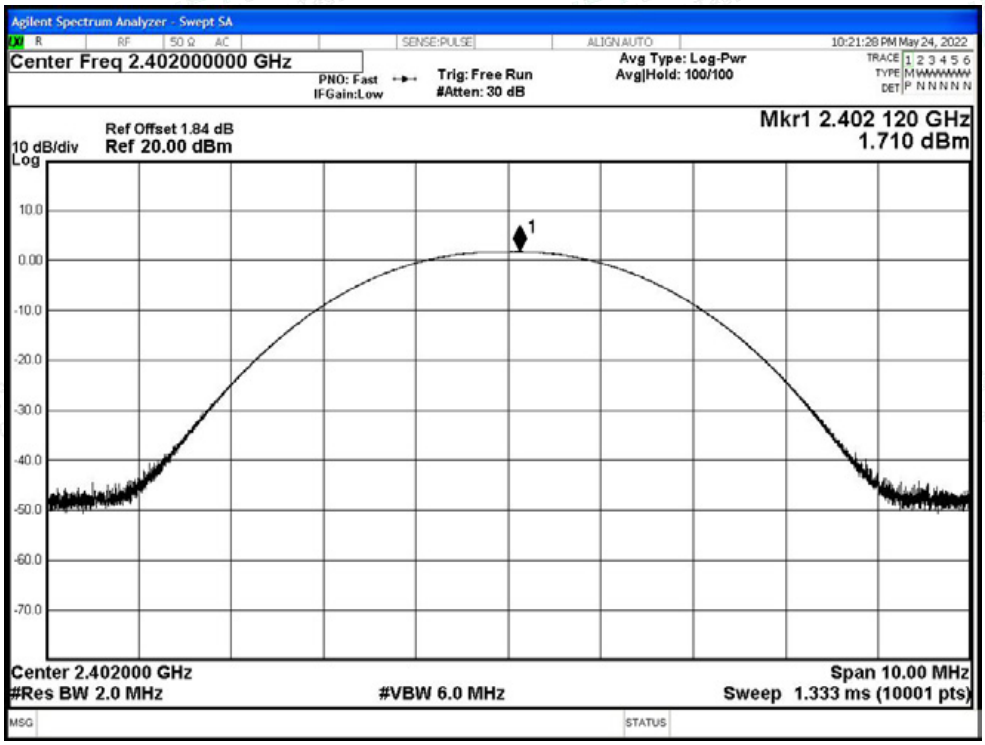


Right:

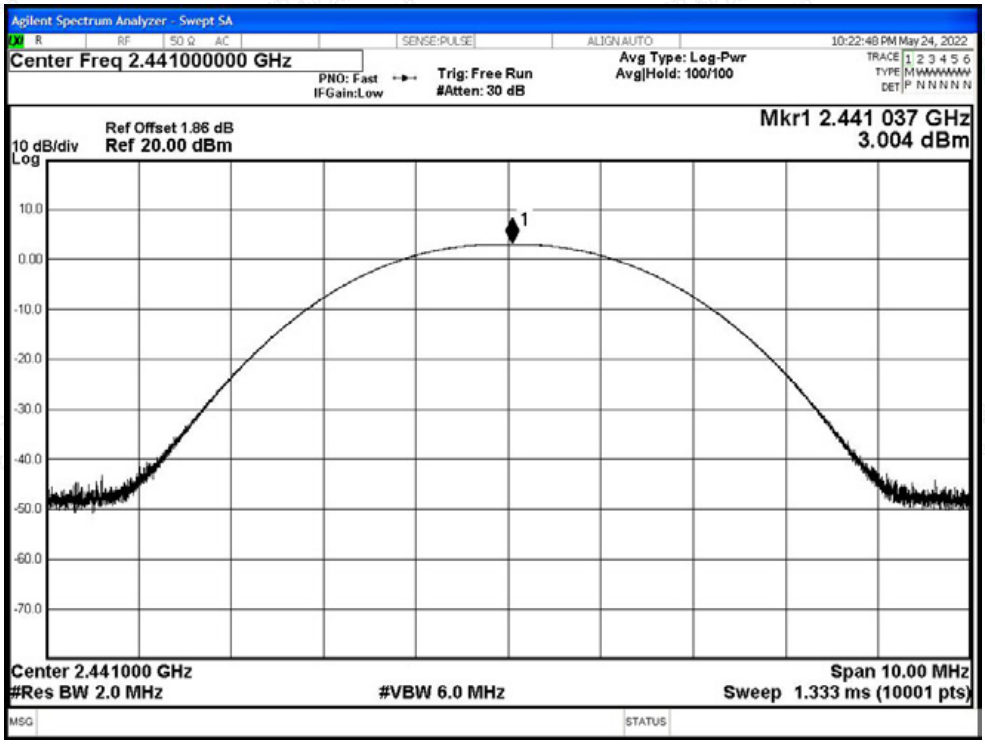
Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	1.71	21	Pass
NVNT	1-DH5	2441	Ant1	3.00	21	Pass
NVNT	1-DH5	2480	Ant1	1.94	21	Pass
NVNT	2-DH5	2402	Ant1	1.52	21	Pass
NVNT	2-DH5	2441	Ant1	2.89	21	Pass
NVNT	2-DH5	2480	Ant1	1.75	21	Pass
NVNT	3-DH5	2402	Ant1	1.62	21	Pass
NVNT	3-DH5	2441	Ant1	2.94	21	Pass
NVNT	3-DH5	2480	Ant1	1.89	21	Pass

Test Graphs

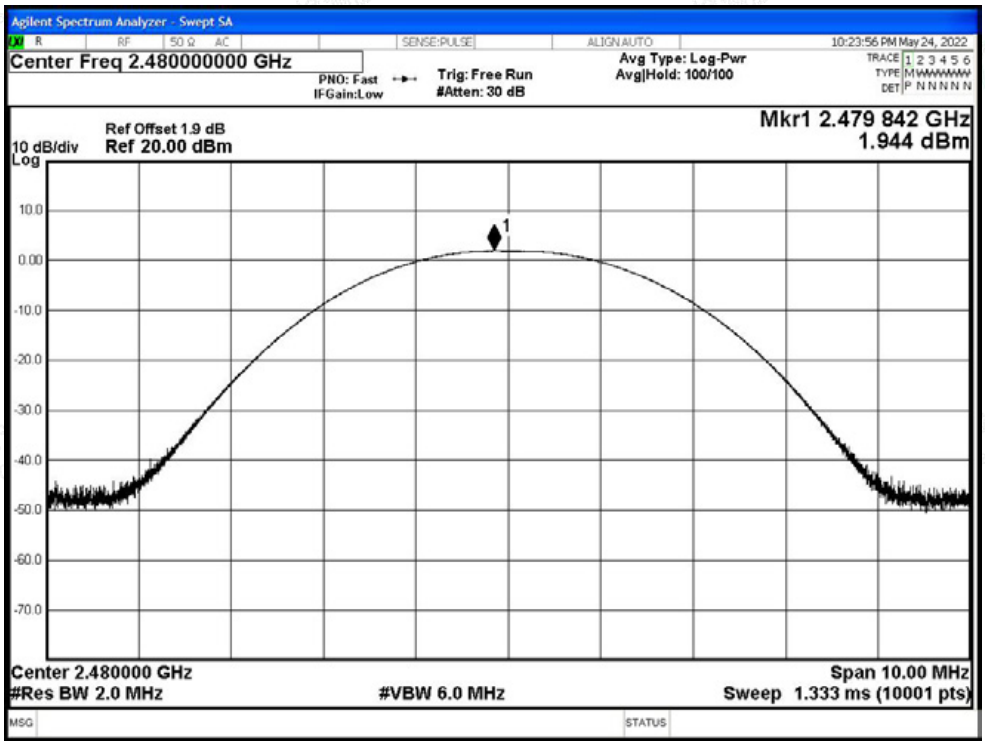
Power NVNT 1-DH5 2402MHz Ant1



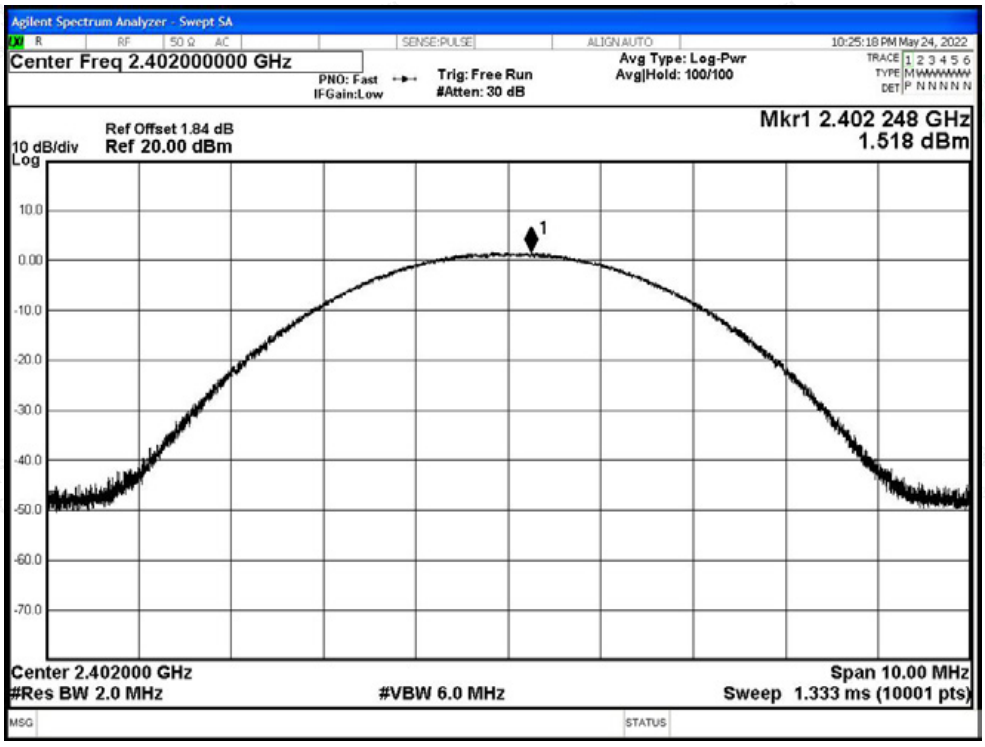
Power NVNT 1-DH5 2441MHz Ant1



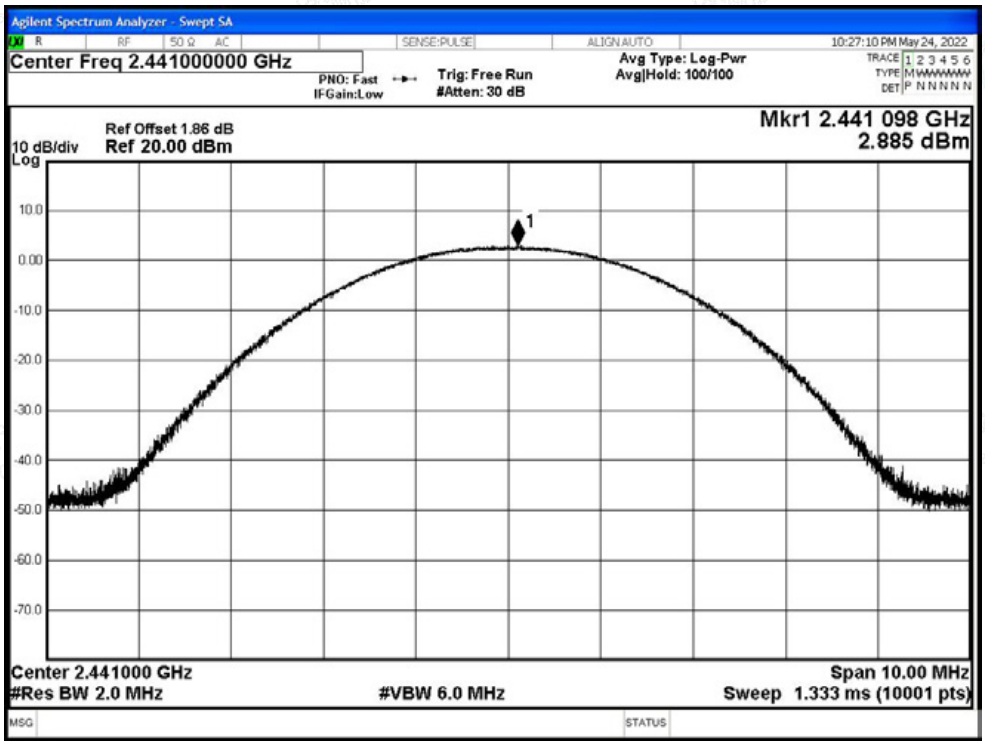
Power NVNT 1-DH5 2480MHz Ant1



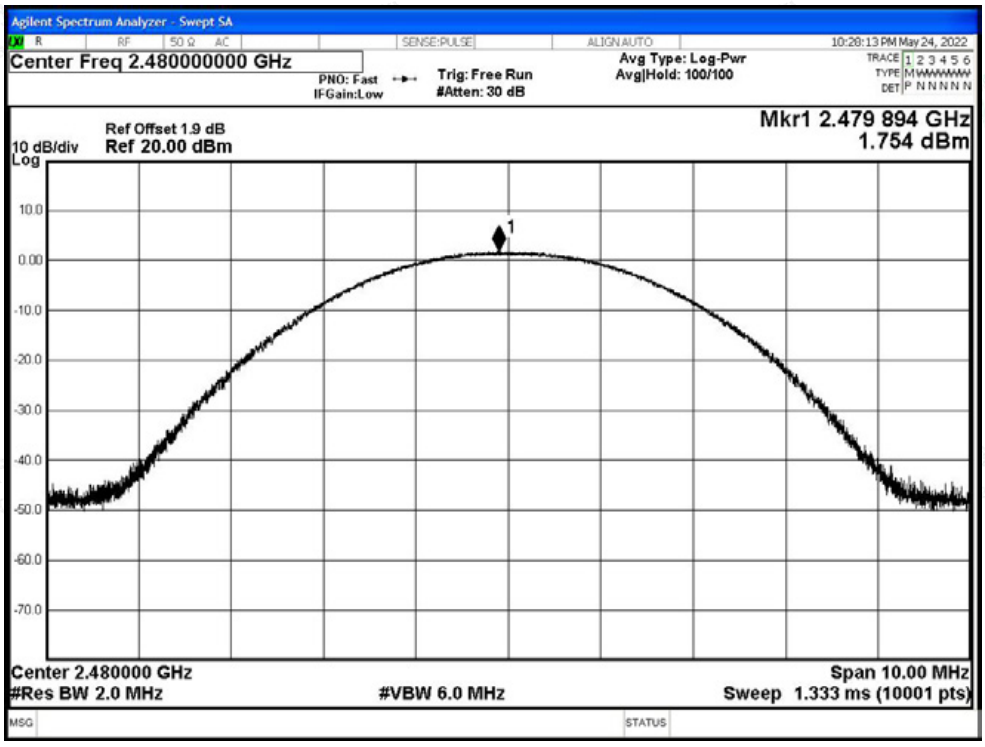
Power NVNT 2-DH5 2402MHz Ant1



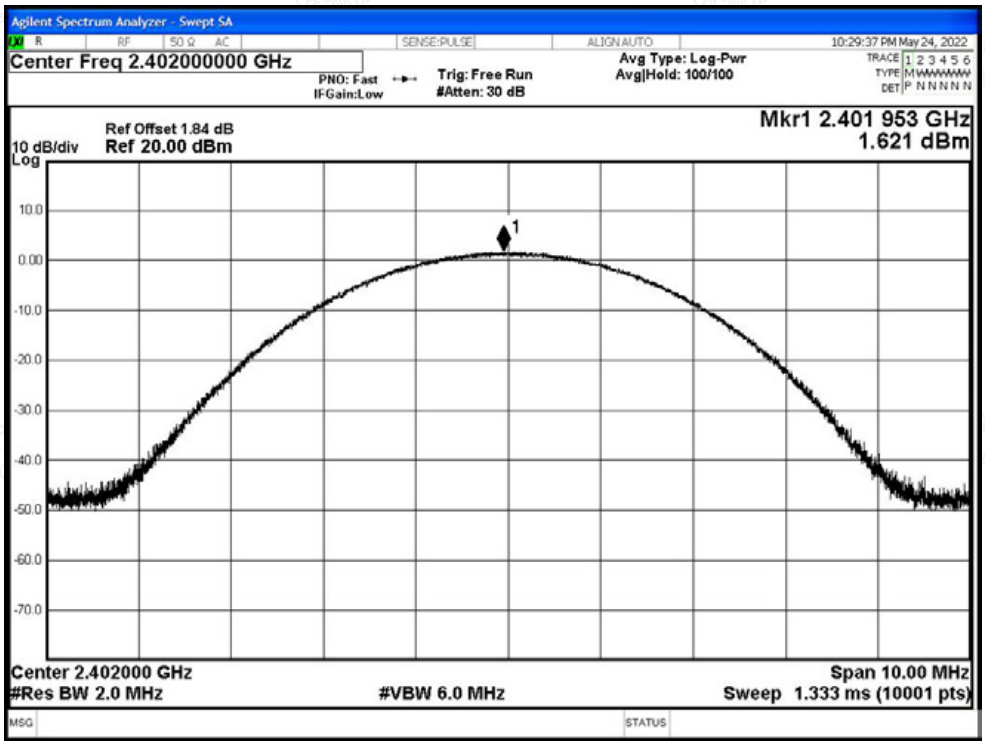
Power NVNT 2-DH5 2441MHz Ant1



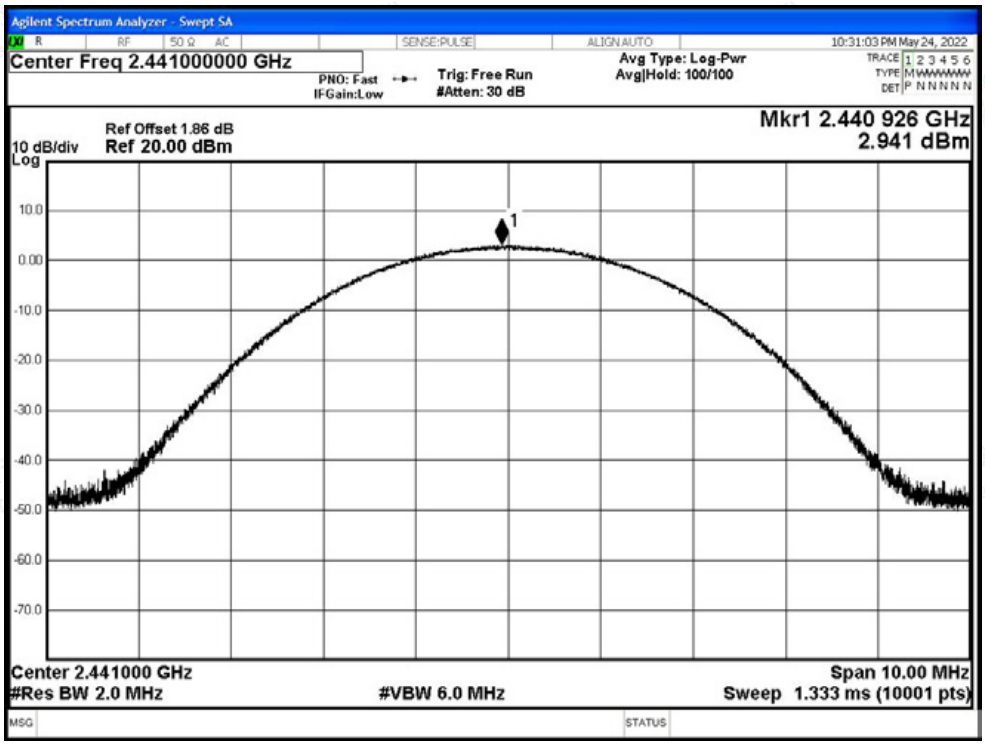
Power NVNT 2-DH5 2480MHz Ant1



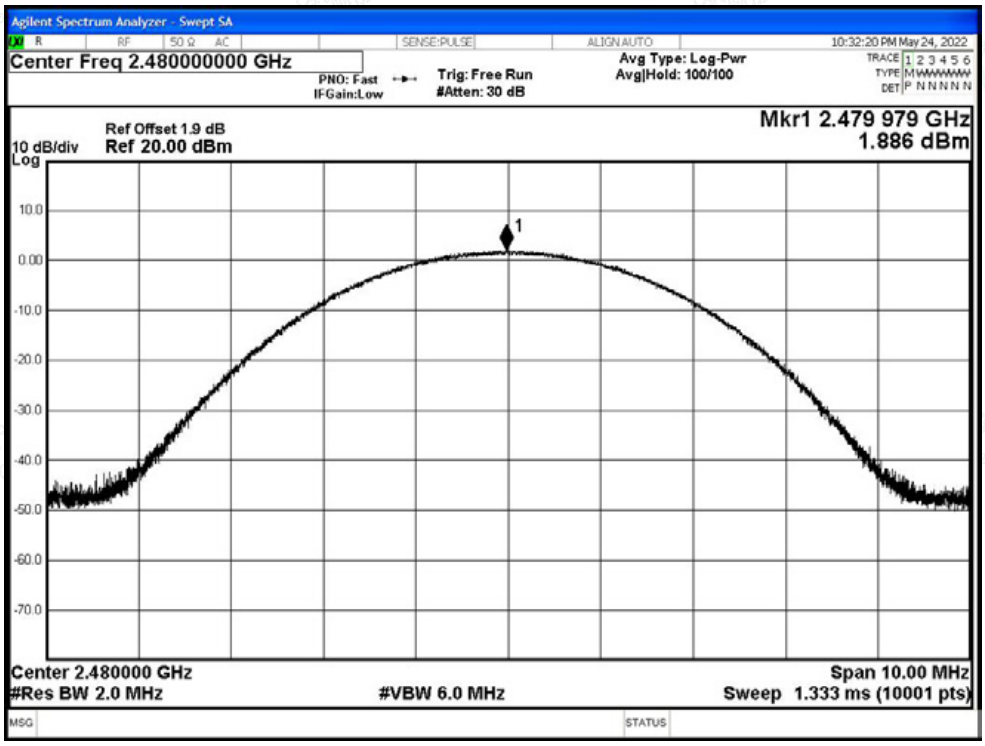
Power NVNT 3-DH5 2402MHz Ant1



Power NVNT 3-DH5 2441MHz Ant1



Power NVNT 3-DH5 2480MHz Ant1



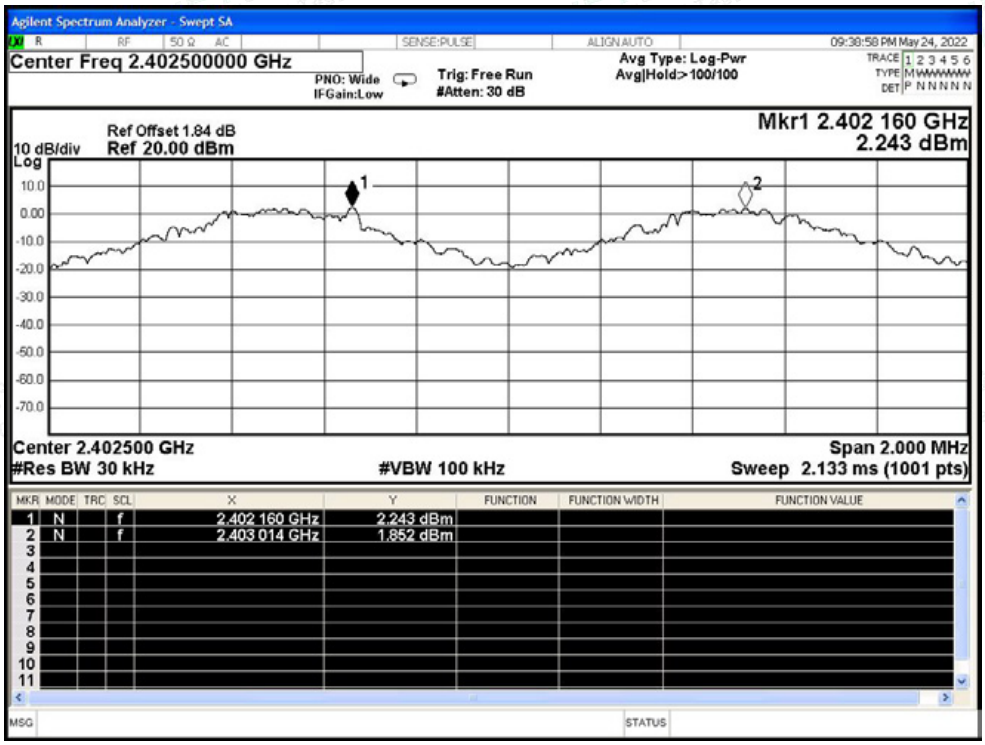
A.4 Carrier Frequencies Separation

Left:

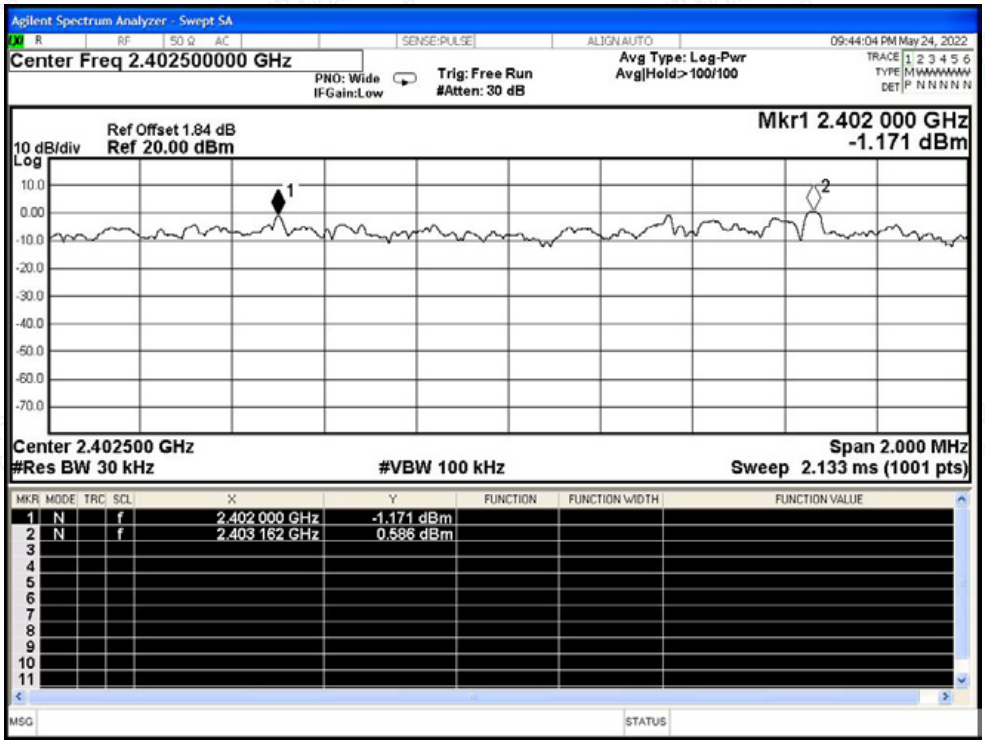
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2402.16	2403.014	0.854	0.685	Pass
NVNT	2-DH5	Ant1	2402	2403.162	1.162	0.879	Pass
NVNT	3-DH5	Ant1	2402.024	2403.154	1.130	0.855	Pass

Test Graphs

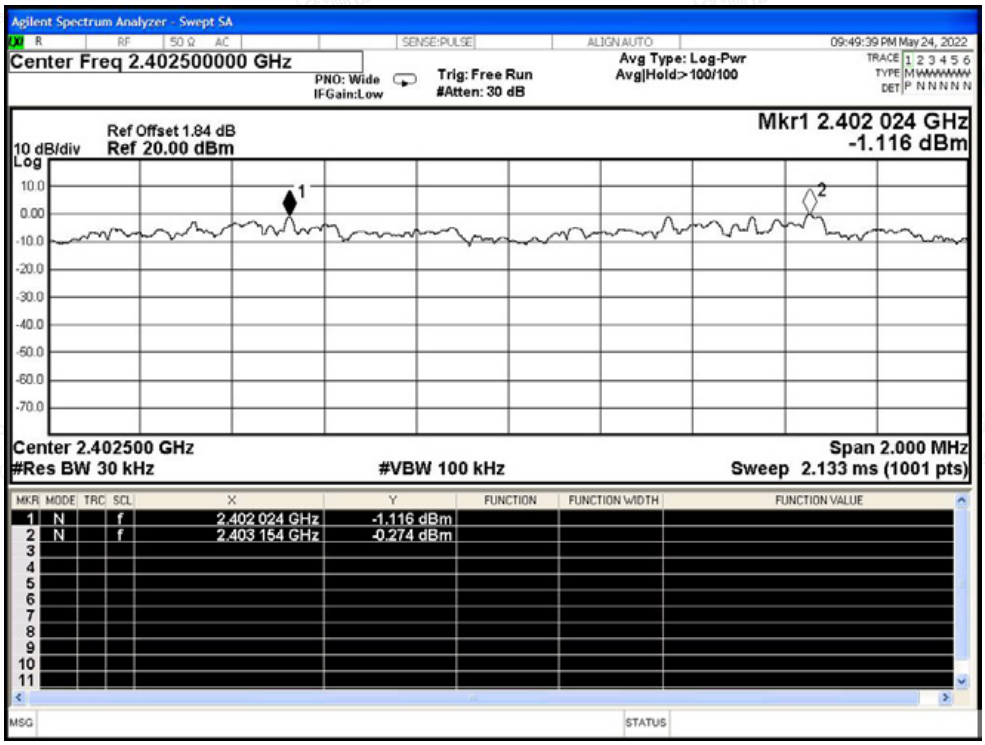
CFS NVNT 1-DH5 2402MHz Ant1



CFS NVNT 2-DH5 2402MHz Ant1



CFS NVNT 3-DH5 2402MHz Ant1

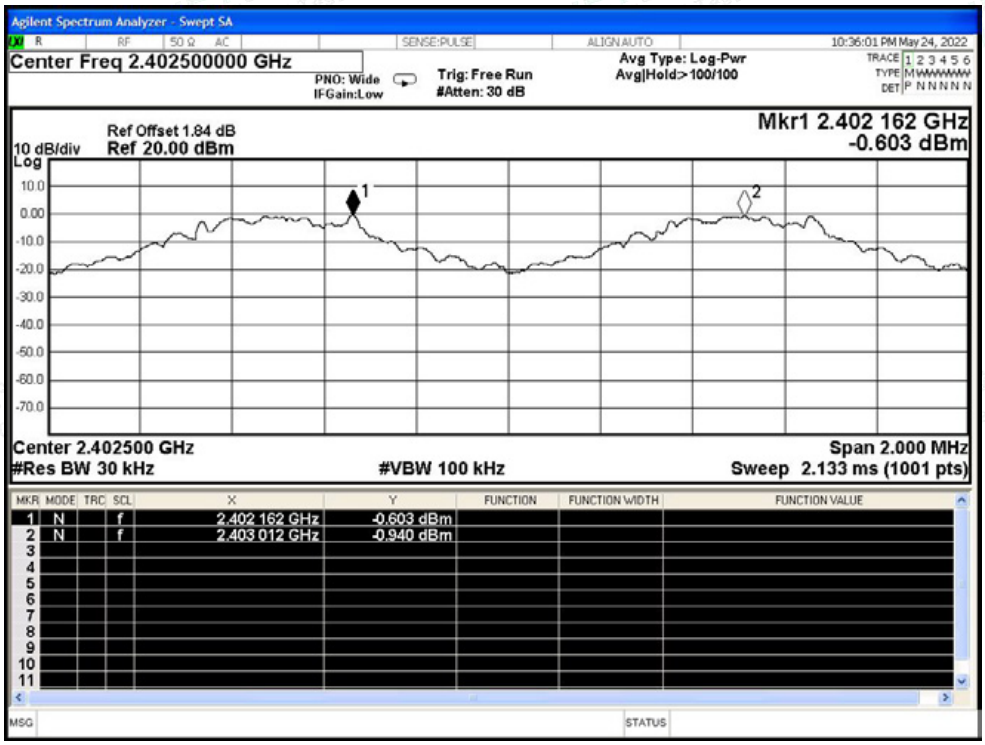
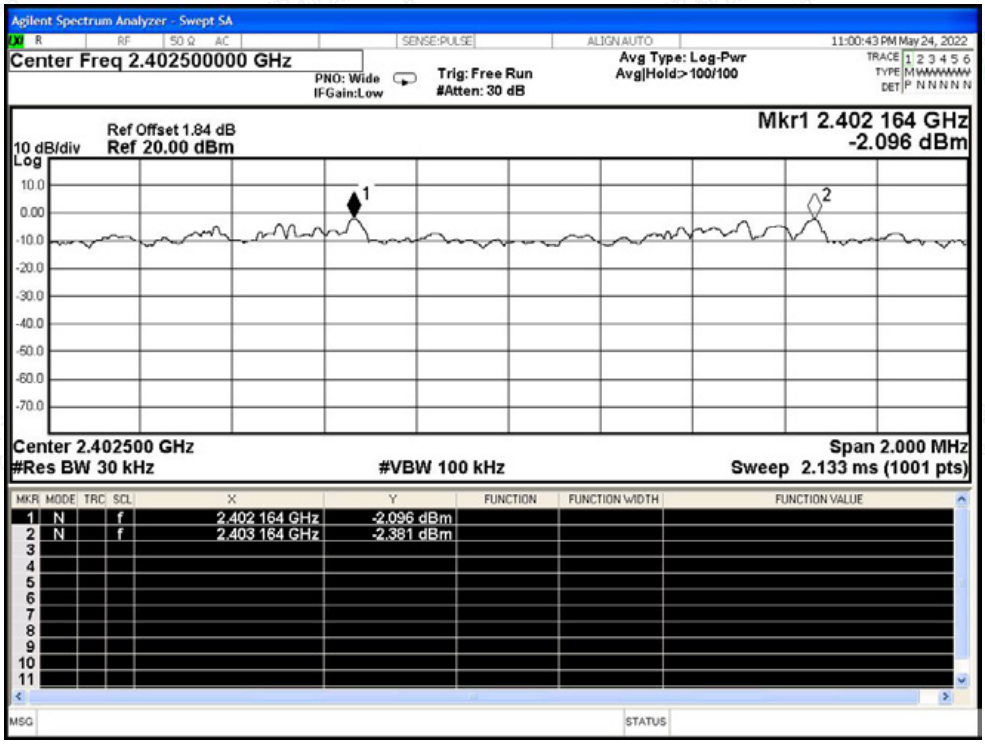


Right:

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2402.162	2403.012	0.85	0.638	Pass
NVNT	2-DH5	Ant1	2402.164	2403.164	1.00	0.877	Pass
NVNT	3-DH5	Ant1	2402.172	2403.16	0.988	0.877	Pass

Test Graphs

CFS NVNT 1-DH5 2402MHz Ant1



CFS NVNT 2-DH5 2402MHz Ant1