

RF Test Data for Bluetooth(BDR+EDR) (Conducted Measurements)

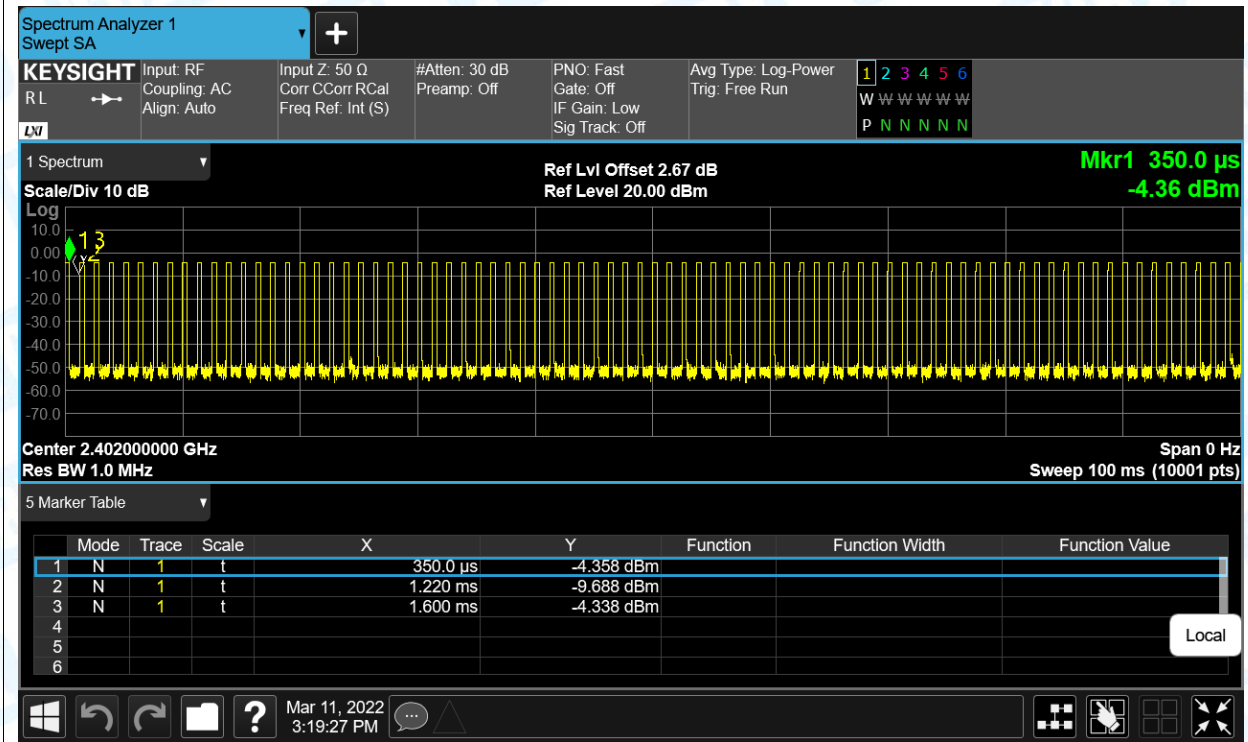
General Description of EUT	
Product Name:	Hearangel
Test Model:	HRA6
Sample ID:	RW-C-202203-0024-1-2#
Environmental Conditions	
Temperature:	23.8°C
Relative Humidity:	48%
Test Voltage:	DC 3V
Test Engineer:	Huang jian ping
Note: For a more detailed features description, please refer to the report TBR-C-202203-0024-1	

1. Duty Cycle

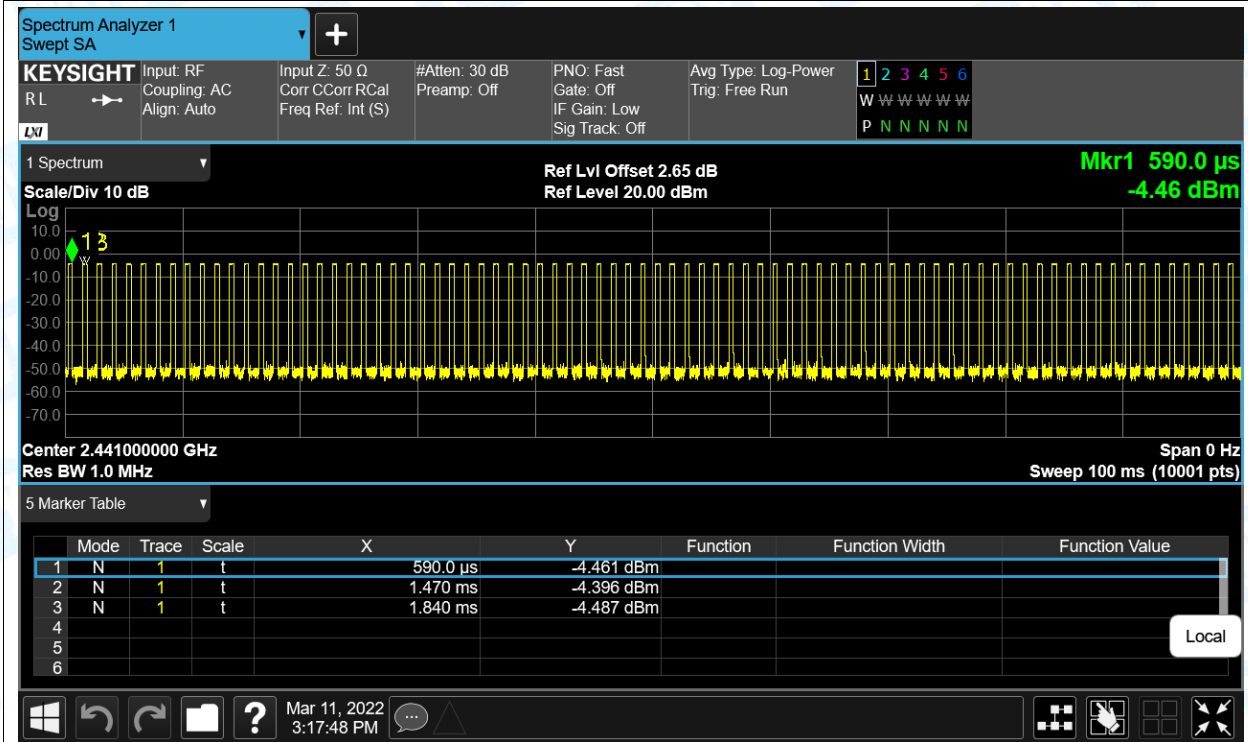
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	1-DH1	2402	Ant1	31.21	5.06	2.63
NVNT	1-DH1	2441	Ant1	30.4	5.17	2.7
NVNT	1-DH1	2480	Ant1	30.74	5.12	2.7
NVNT	2-DH1	2402	Ant1	31.2	5.06	2.63
NVNT	2-DH1	2441	Ant1	32	4.95	2.56
NVNT	2-DH1	2480	Ant1	32.01	4.95	2.56
NVNT	3-DH1	2402	Ant1	31.21	5.06	2.63
NVNT	3-DH1	2441	Ant1	31.21	5.06	2.63
NVNT	3-DH1	2480	Ant1	31.2	5.06	2.63

Test Graphs

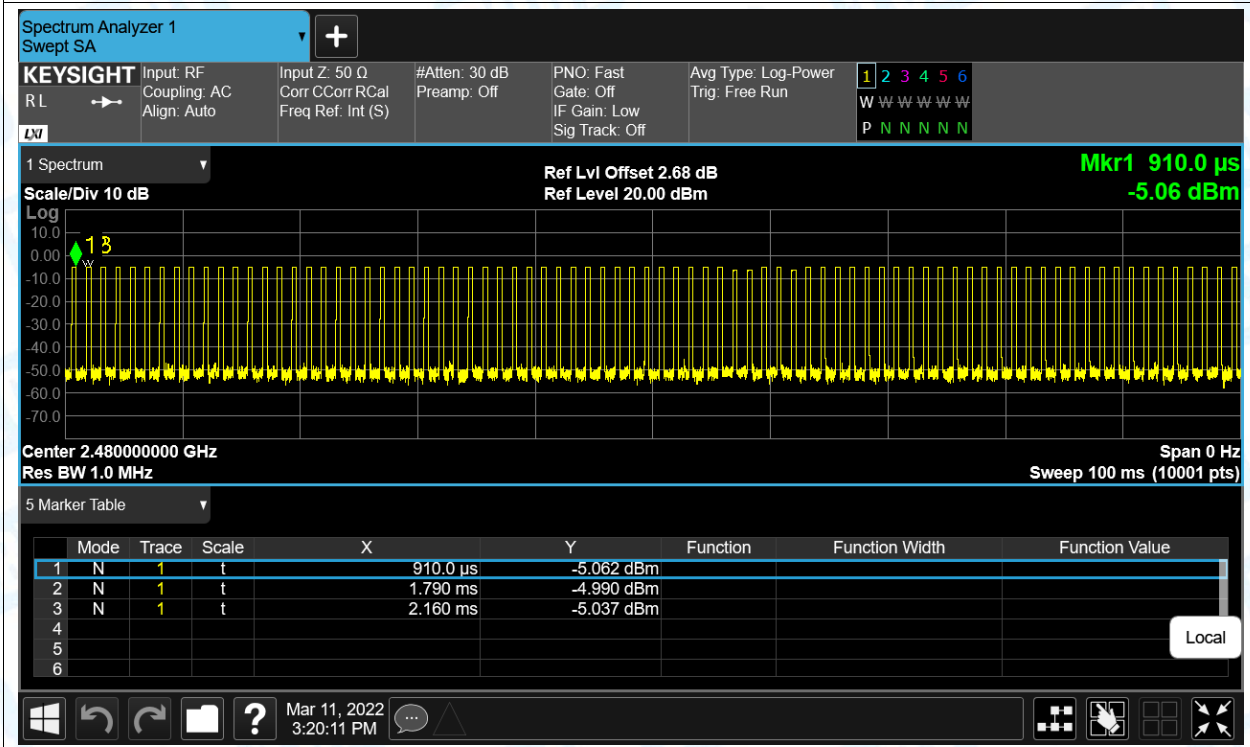
Duty Cycle NVNT 1-DH1 2402MHz Ant1



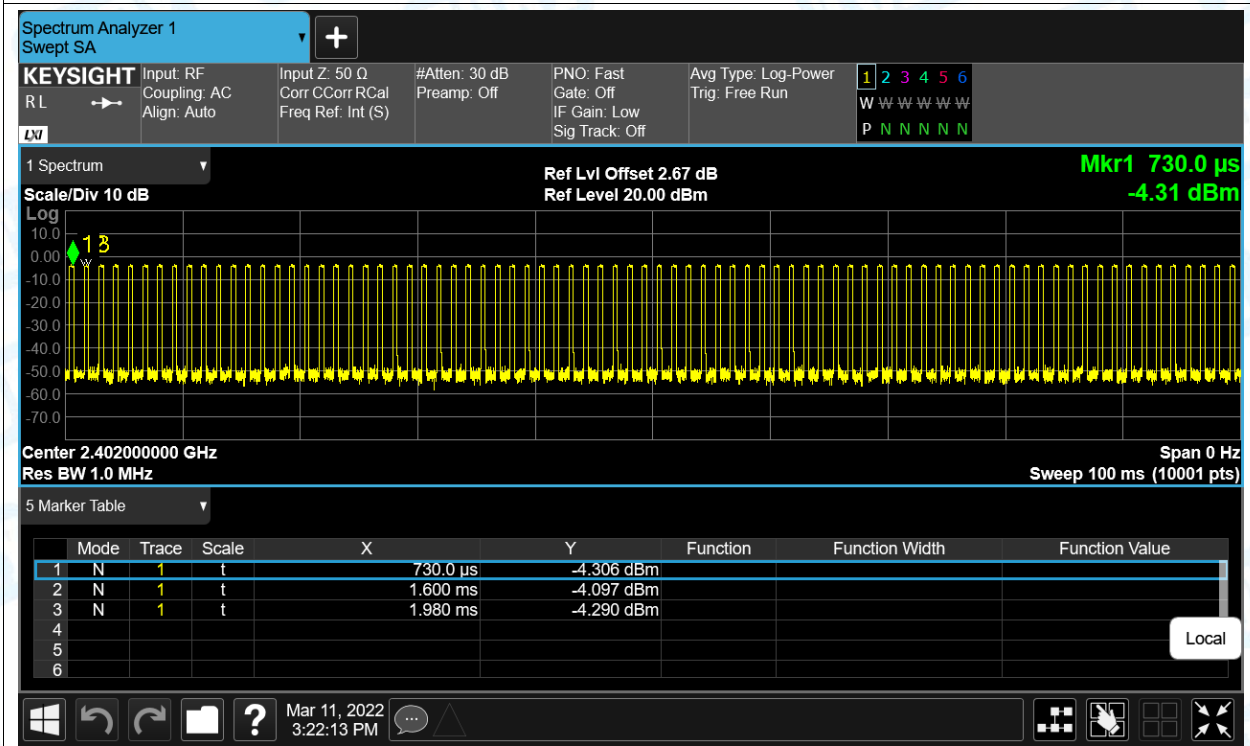
Duty Cycle NVNT 1-DH1 2441MHz Ant1



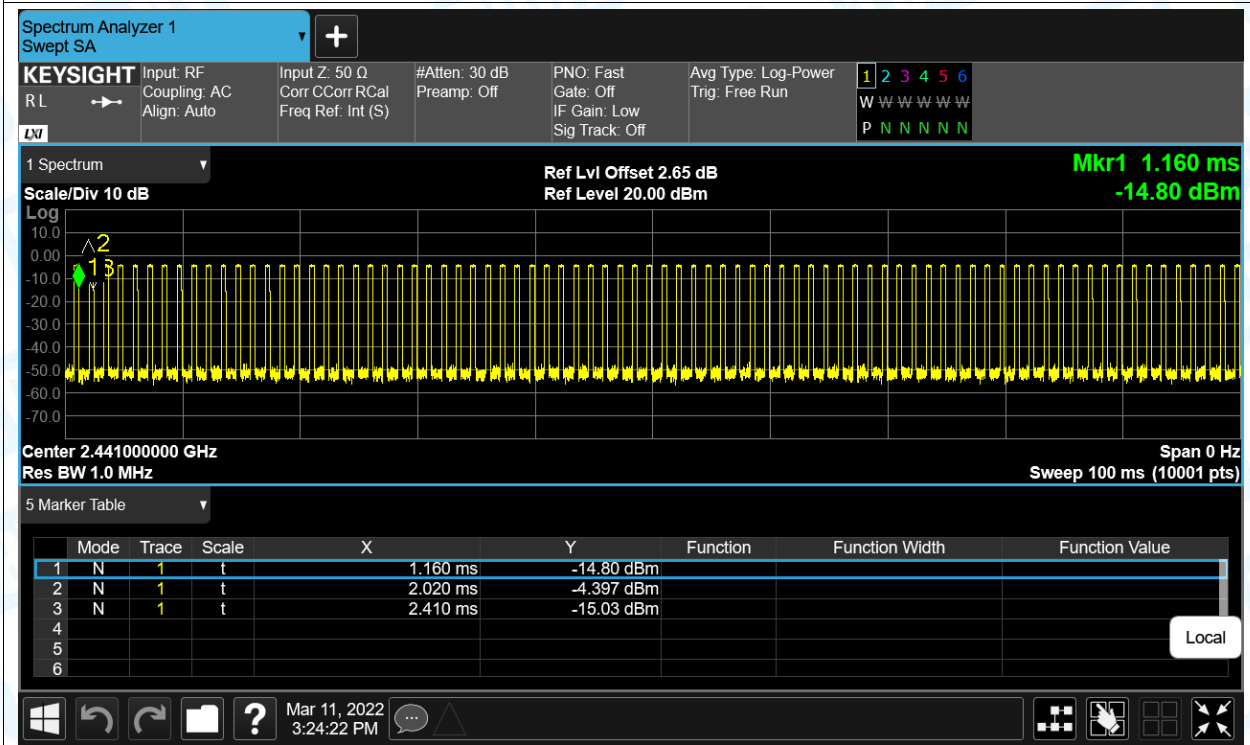
Duty Cycle NVNT 1-DH1 2480MHz Ant1



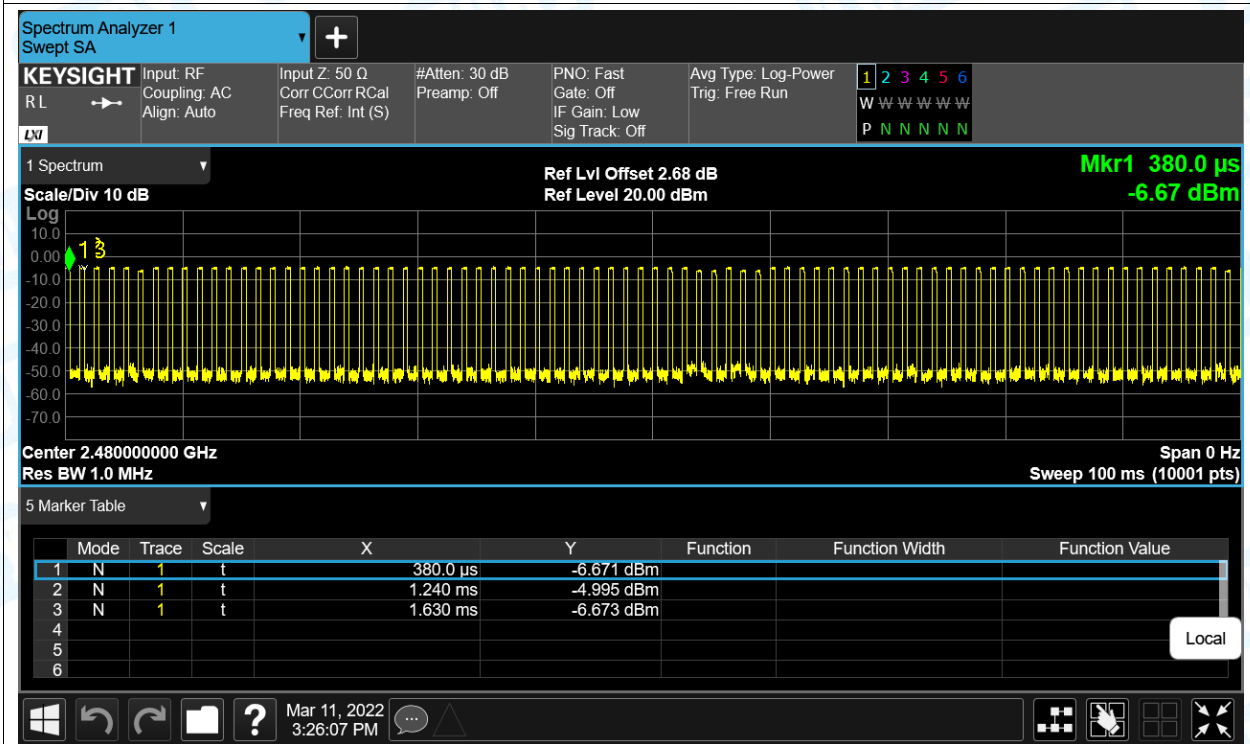
Duty Cycle NVNT 2-DH1 2402MHz Ant1



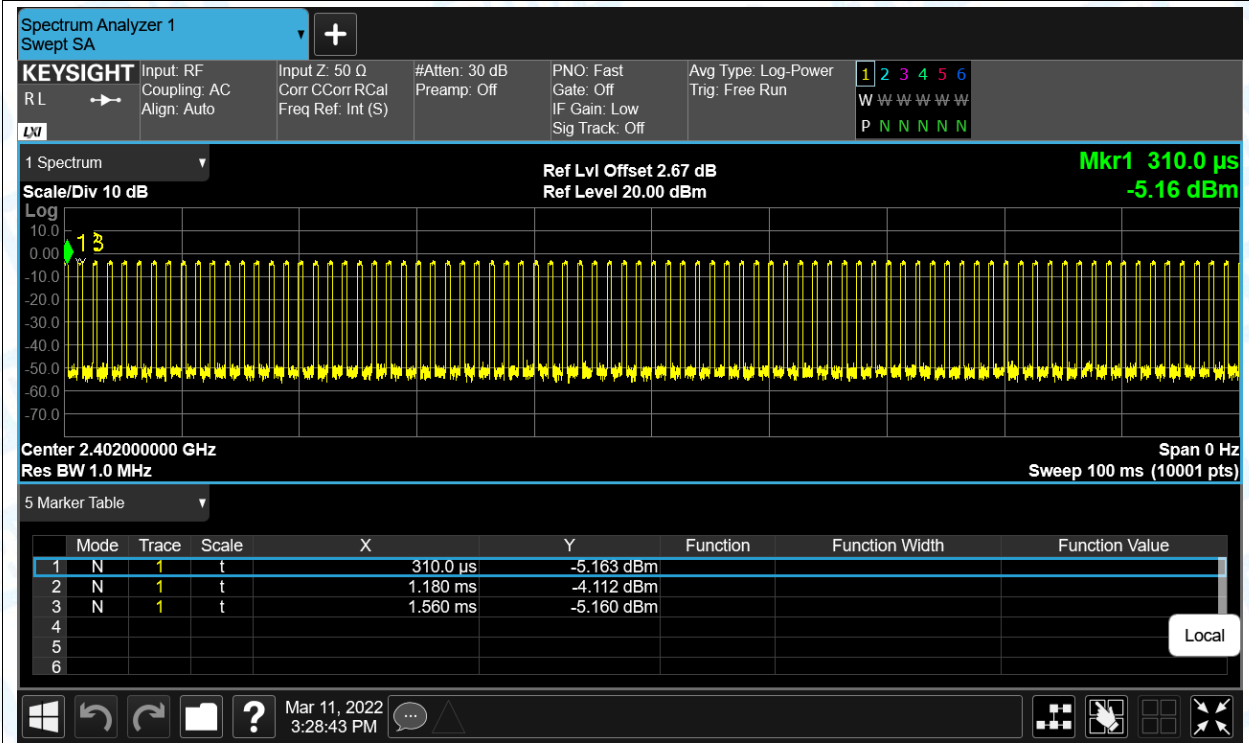
Duty Cycle NVNT 2-DH1 2441MHz Ant1



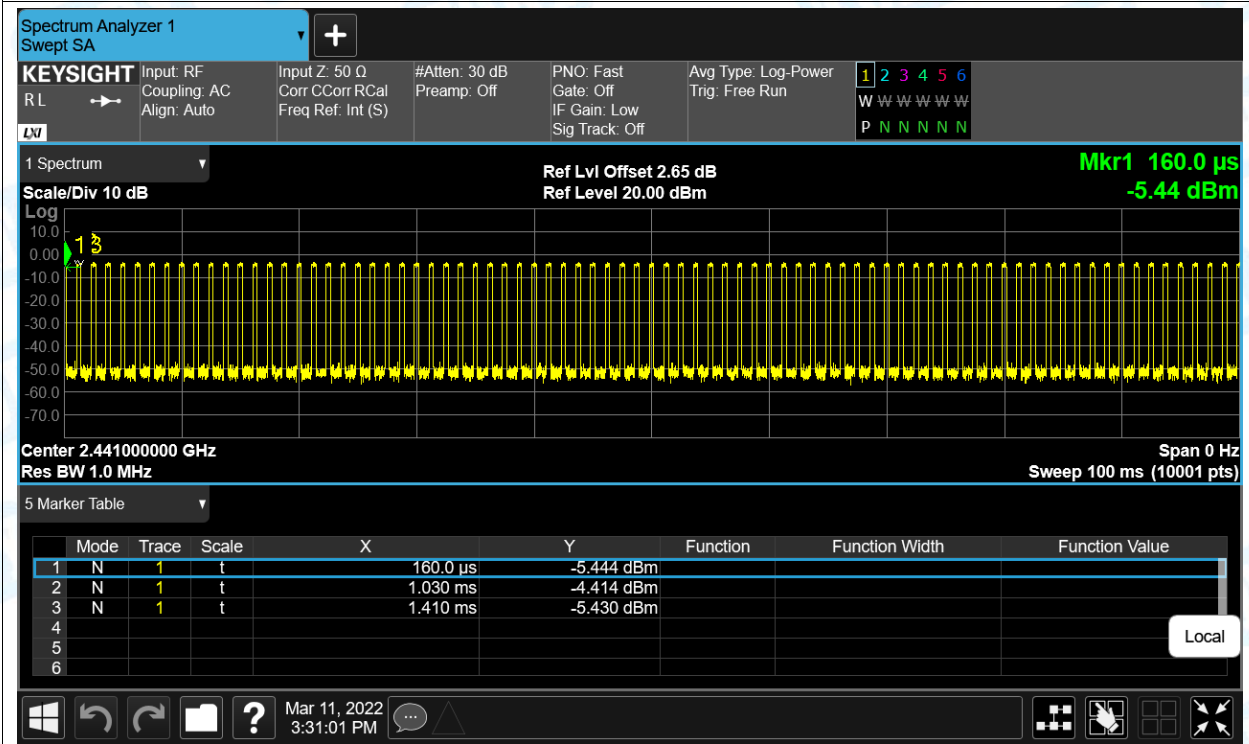
Duty Cycle NVNT 2-DH1 2480MHz Ant1

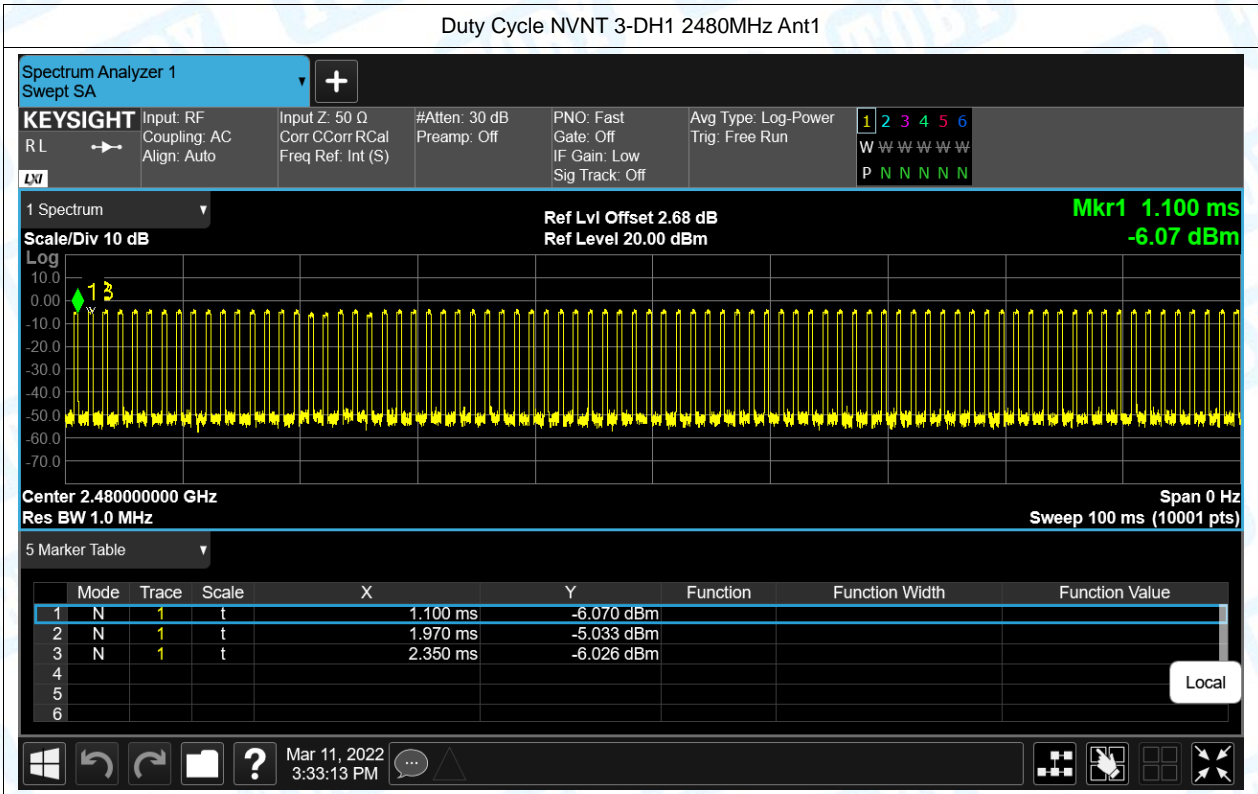


Duty Cycle NVNT 3-DH1 2402MHz Ant1



Duty Cycle NVNT 3-DH1 2441MHz Ant1



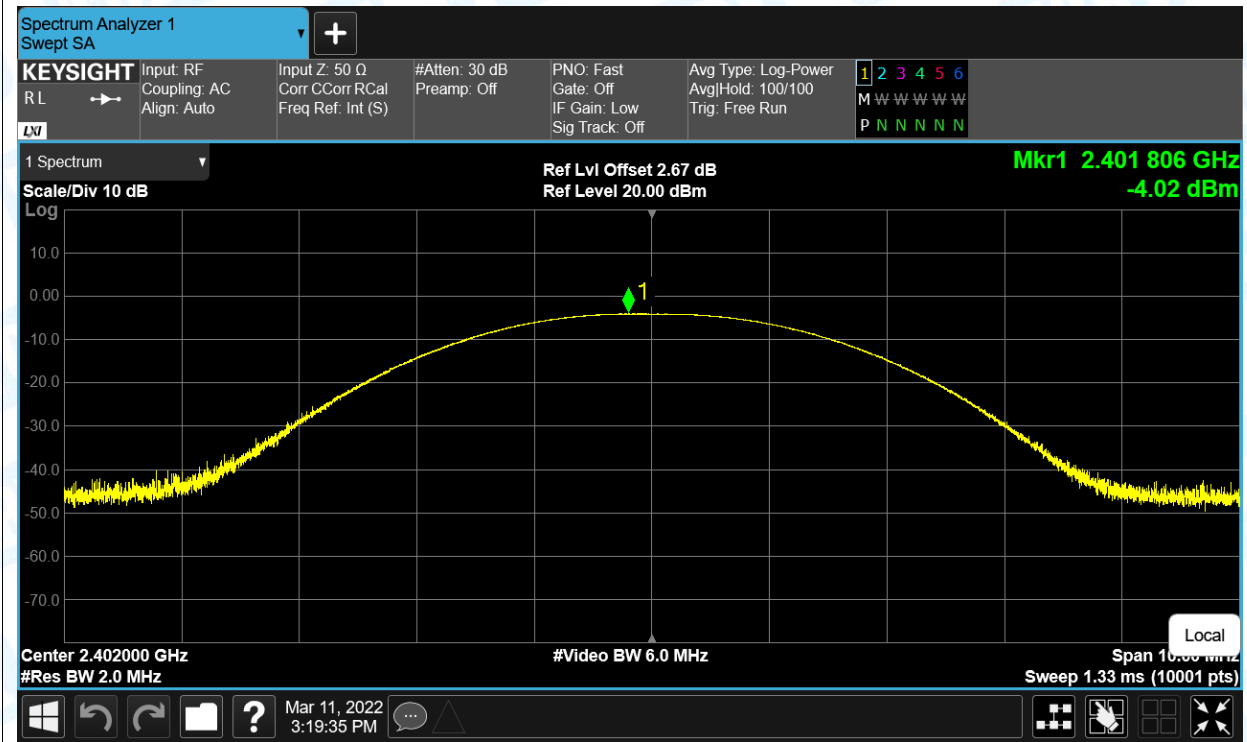


2. Maximum Conducted Output Power

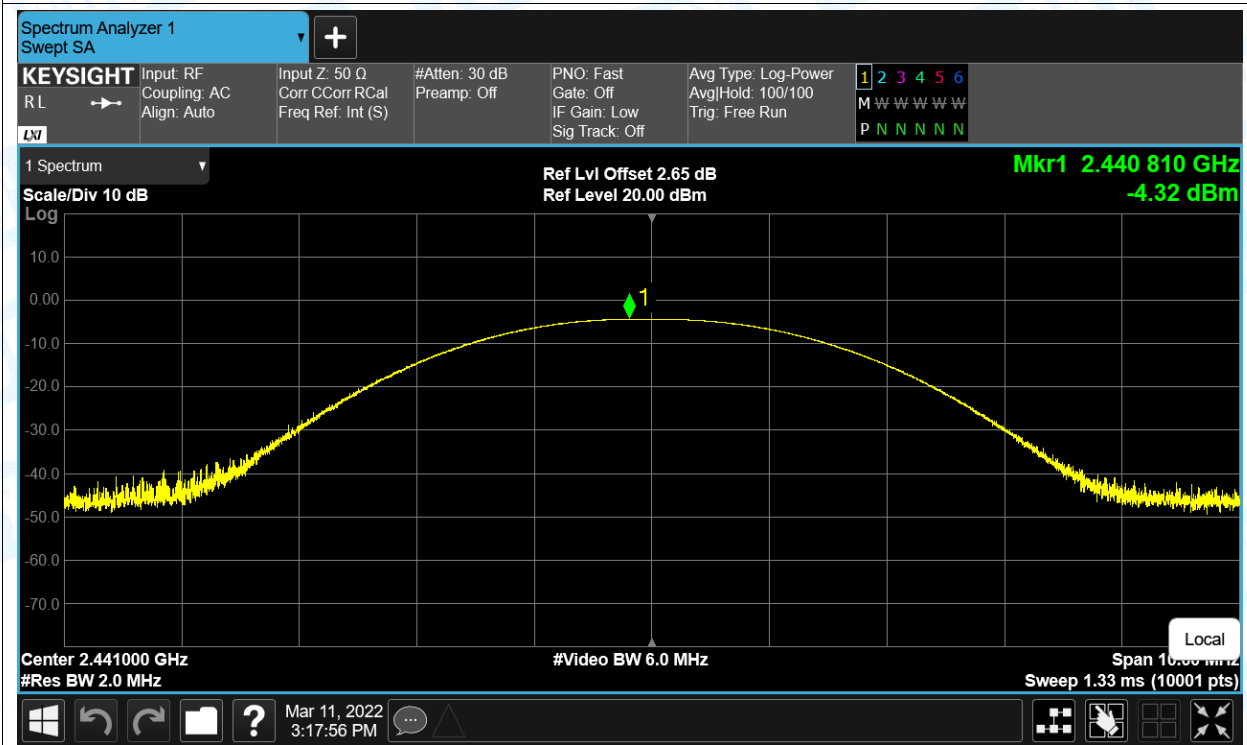
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH1	2402	Ant1	-4.025	21	Pass
NVNT	1-DH1	2441	Ant1	-4.322	21	Pass
NVNT	1-DH1	2480	Ant1	-4.898	21	Pass
NVNT	2-DH1	2402	Ant1	-3.117	21	Pass
NVNT	2-DH1	2441	Ant1	-3.392	21	Pass
NVNT	2-DH1	2480	Ant1	-4.048	21	Pass
NVNT	3-DH1	2402	Ant1	-2.519	21	Pass
NVNT	3-DH1	2441	Ant1	-2.807	21	Pass
NVNT	3-DH1	2480	Ant1	-3.469	21	Pass

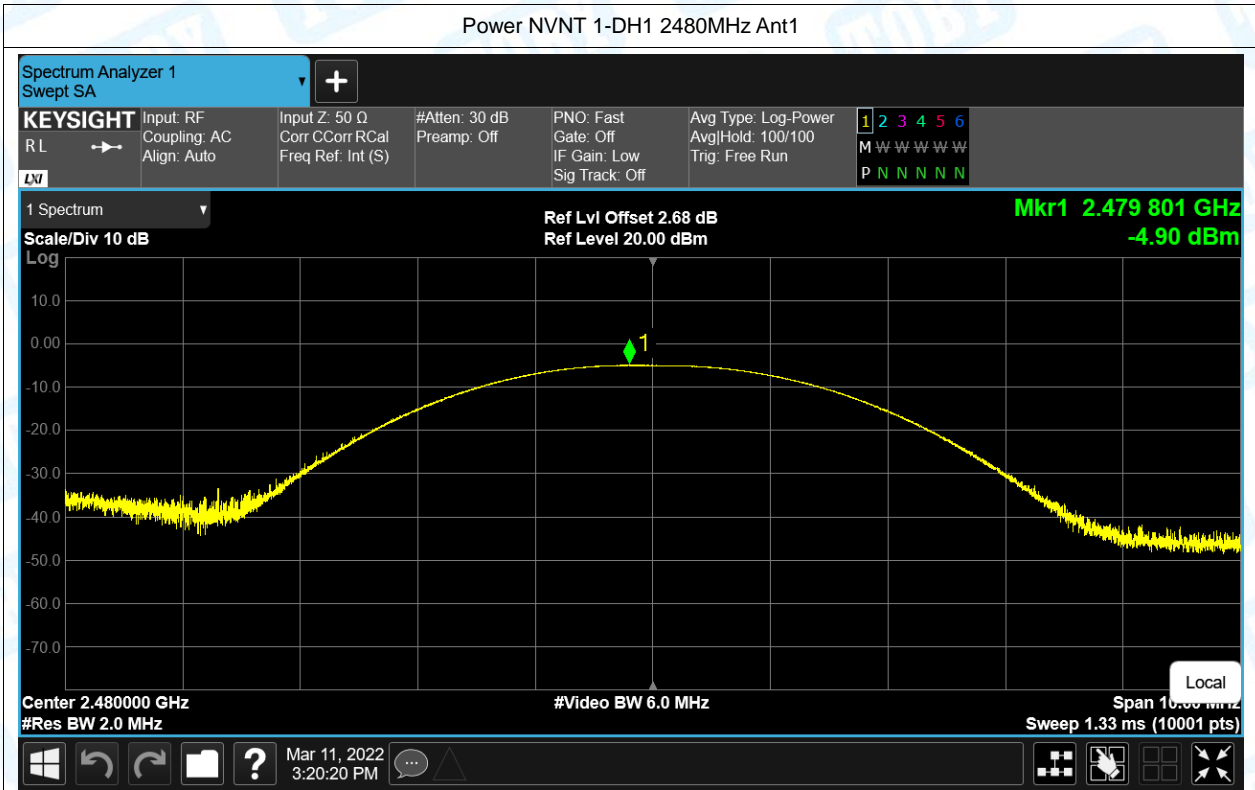
Test Graphs

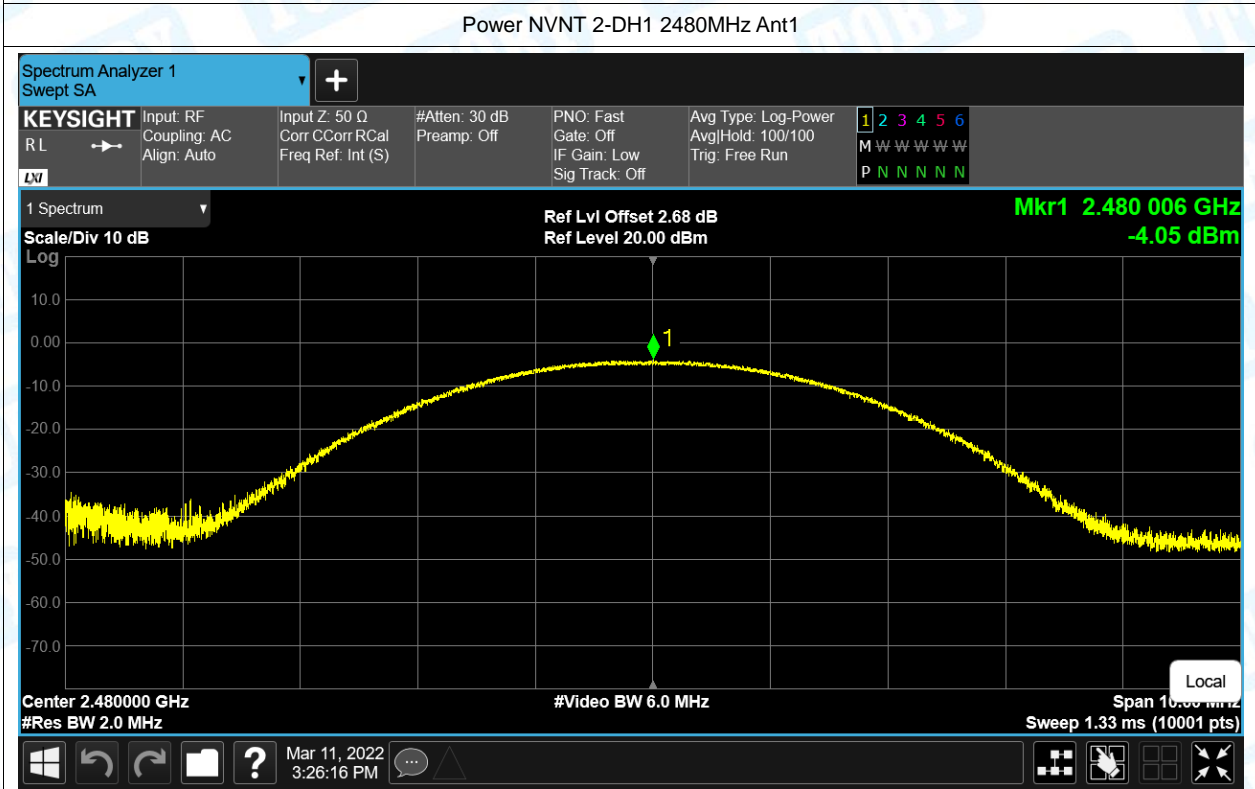
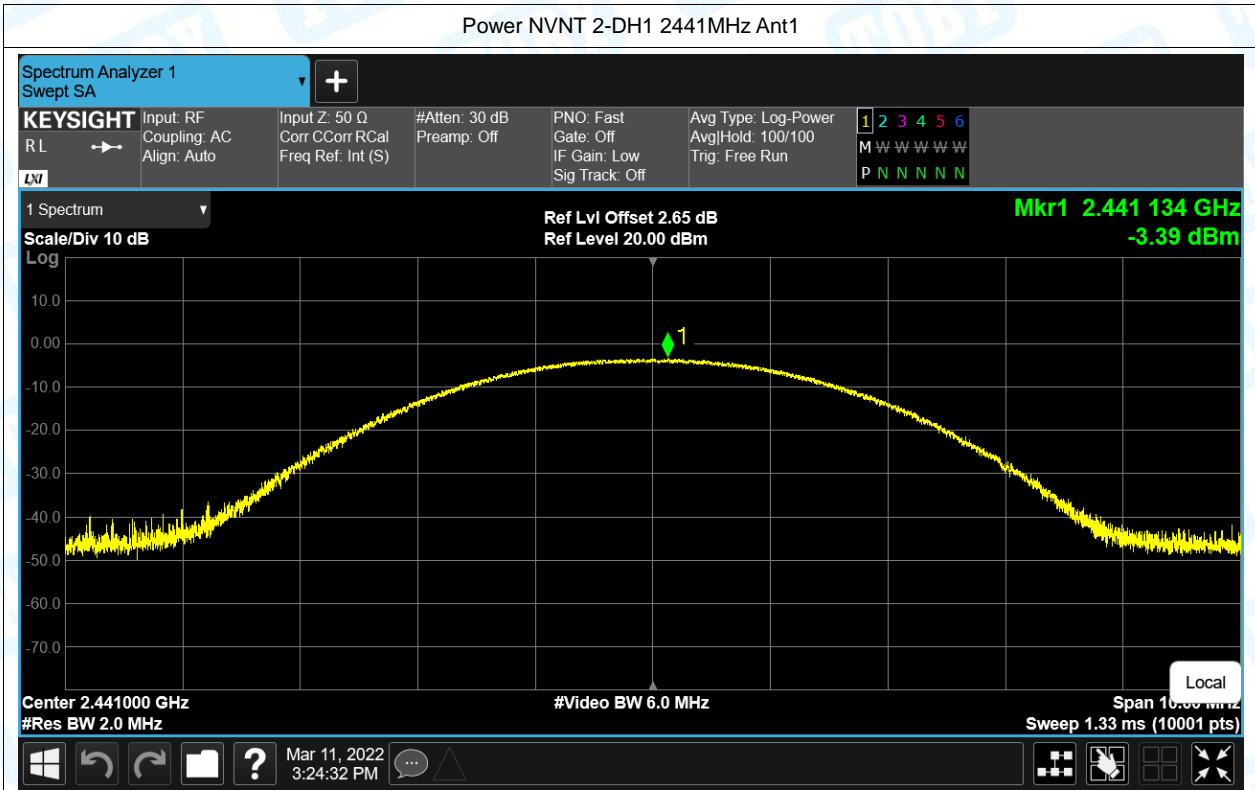
Power NVNT 1-DH1 2402MHz Ant1



Power NVNT 1-DH1 2441MHz Ant1









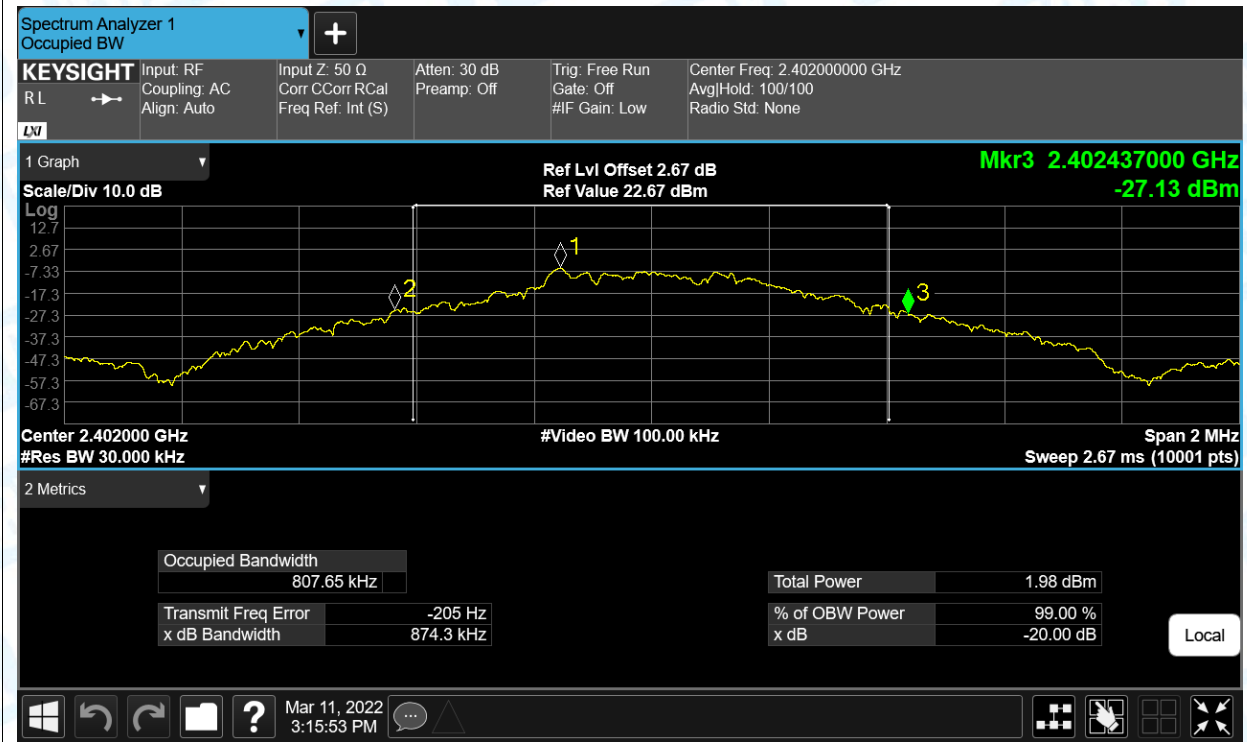


3. -20dB Bandwidth

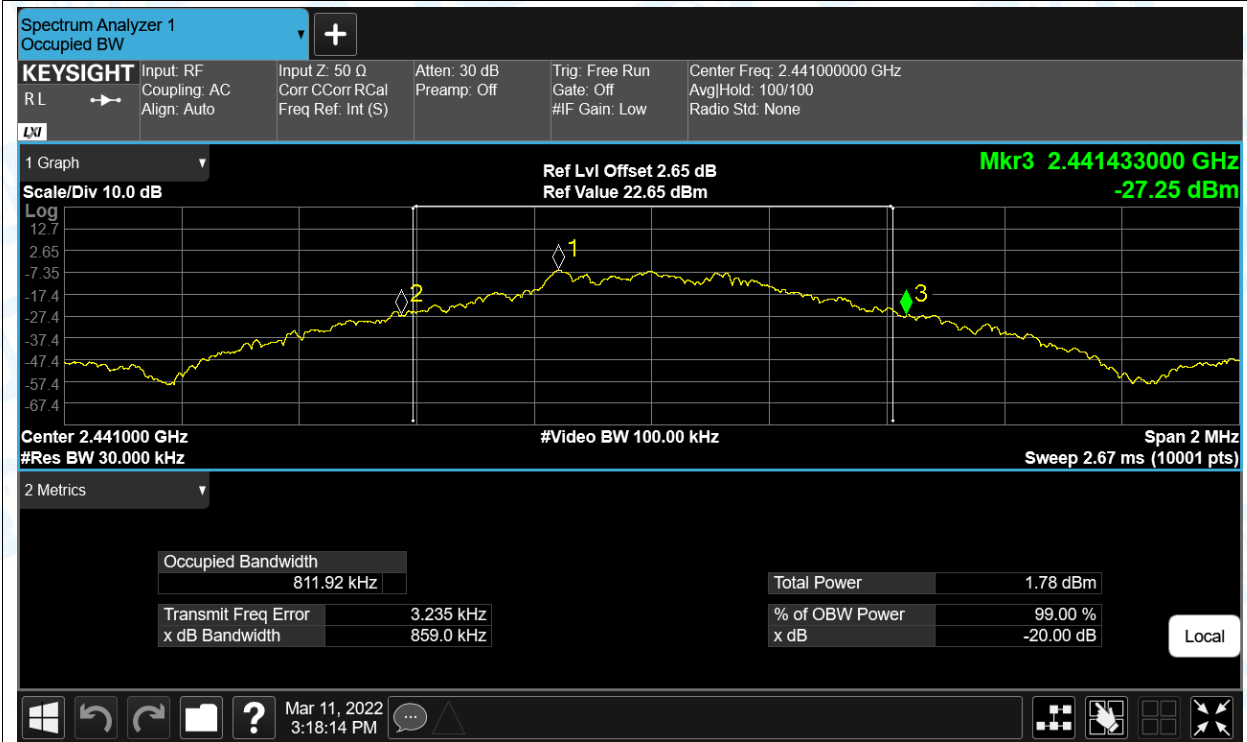
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH1	2402	Ant1	0.87	0	Pass
NVNT	1-DH1	2441	Ant1	0.86	0	Pass
NVNT	1-DH1	2480	Ant1	0.91	0	Pass
NVNT	2-DH1	2402	Ant1	1.23	0	Pass
NVNT	2-DH1	2441	Ant1	1.25	0	Pass
NVNT	2-DH1	2480	Ant1	1.25	0	Pass
NVNT	3-DH1	2402	Ant1	1.21	0	Pass
NVNT	3-DH1	2441	Ant1	1.22	0	Pass
NVNT	3-DH1	2480	Ant1	1.22	0	Pass

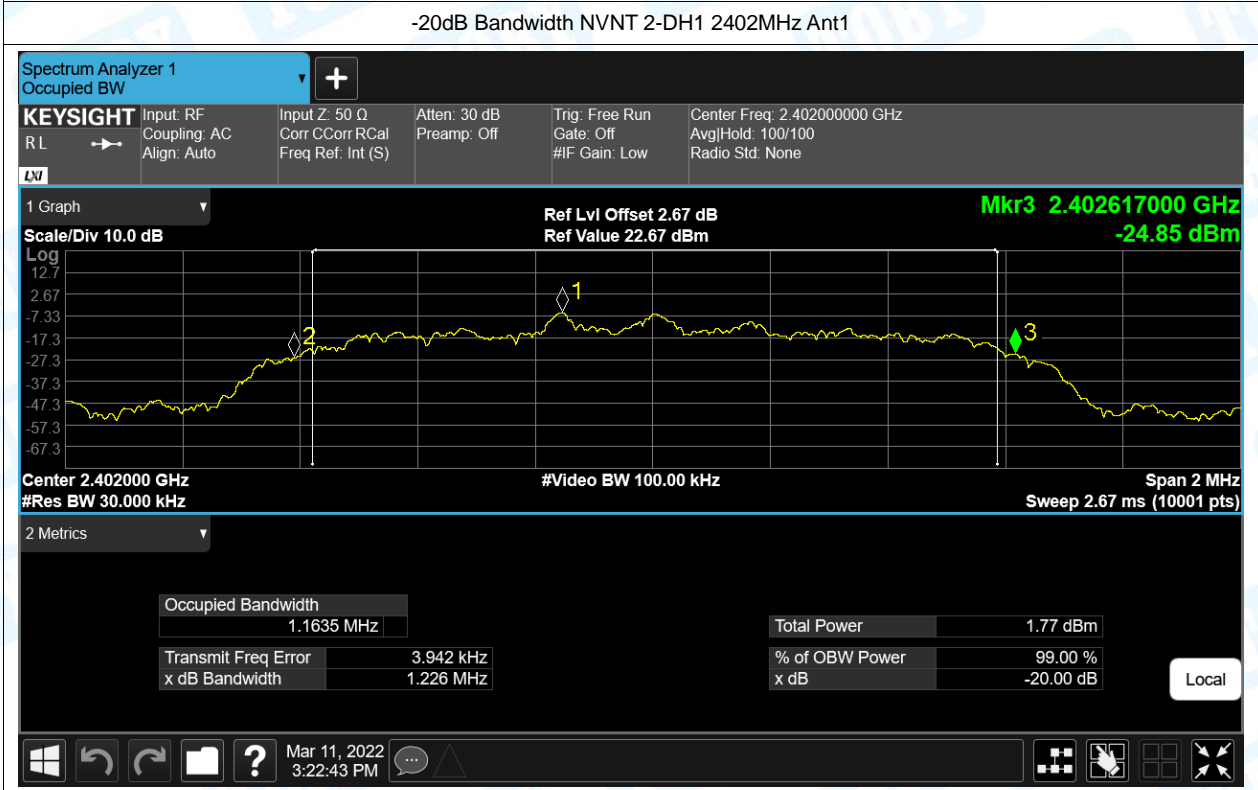
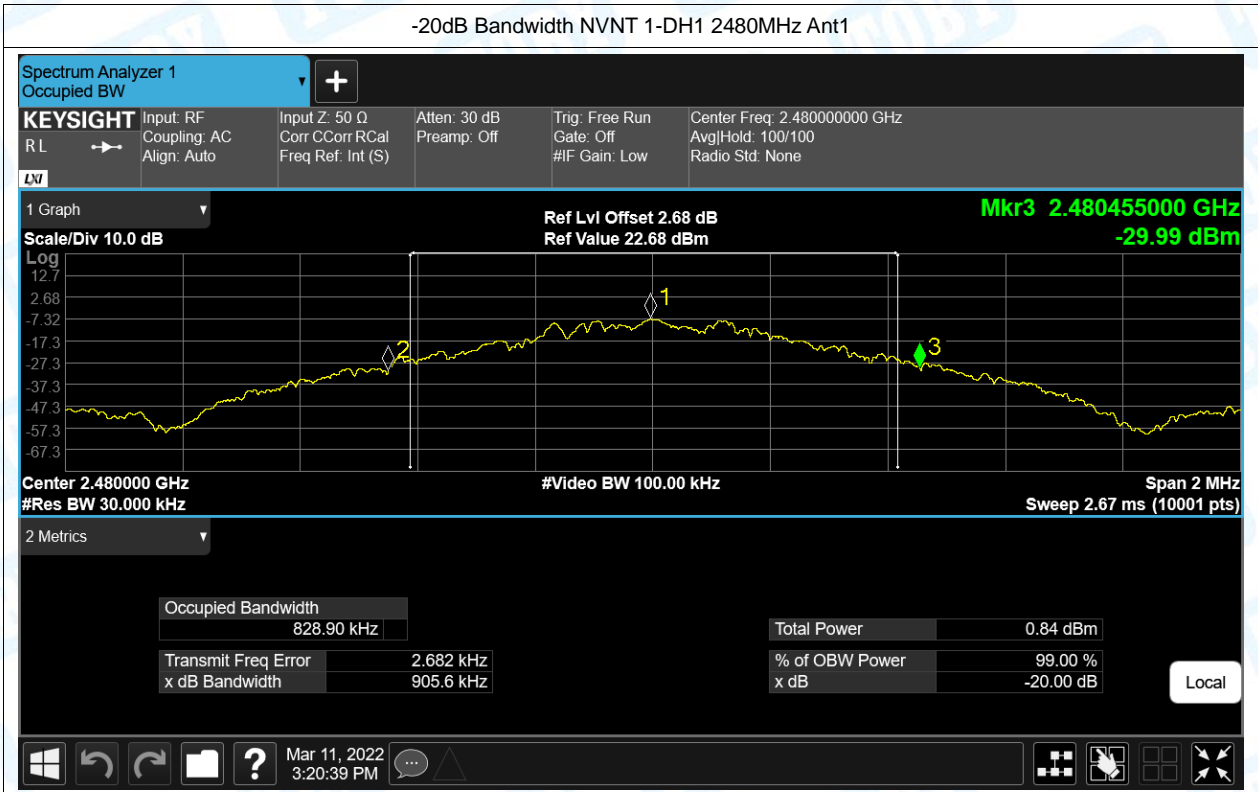
Test Graphs

-20dB Bandwidth NVNT 1-DH1 2402MHz Ant1

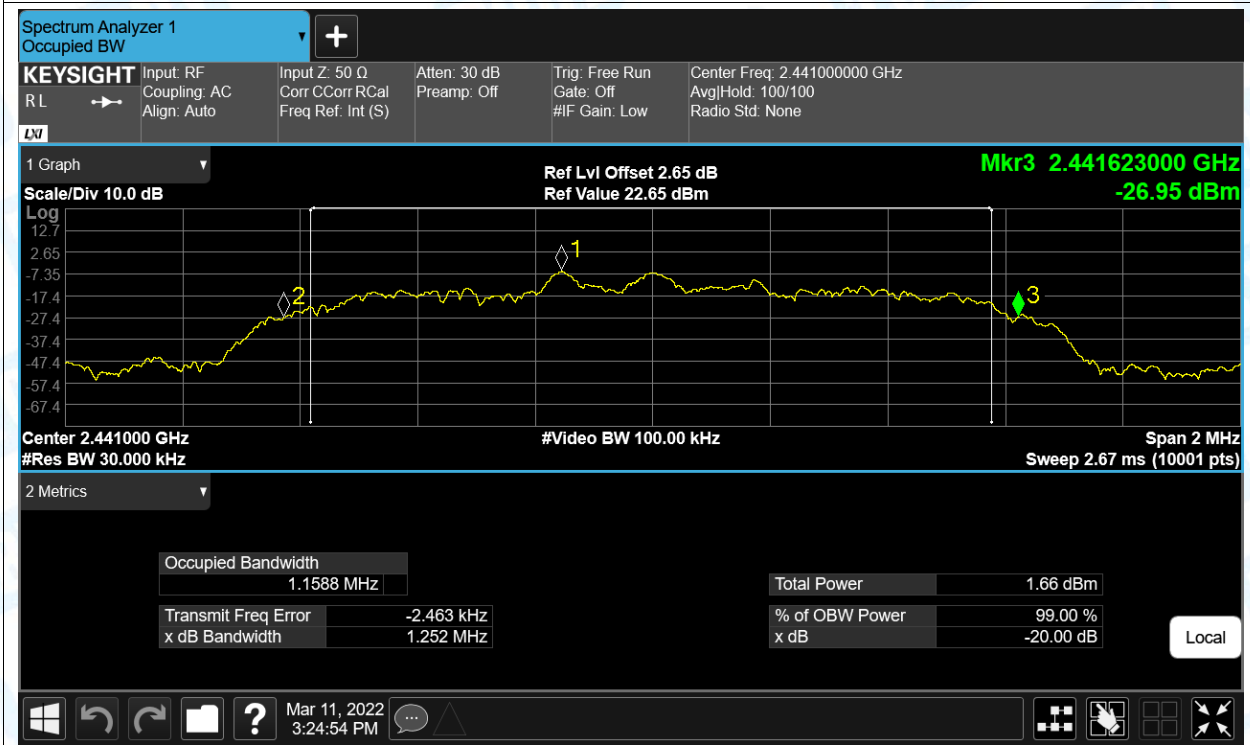


-20dB Bandwidth NVNT 1-DH1 2441MHz Ant1

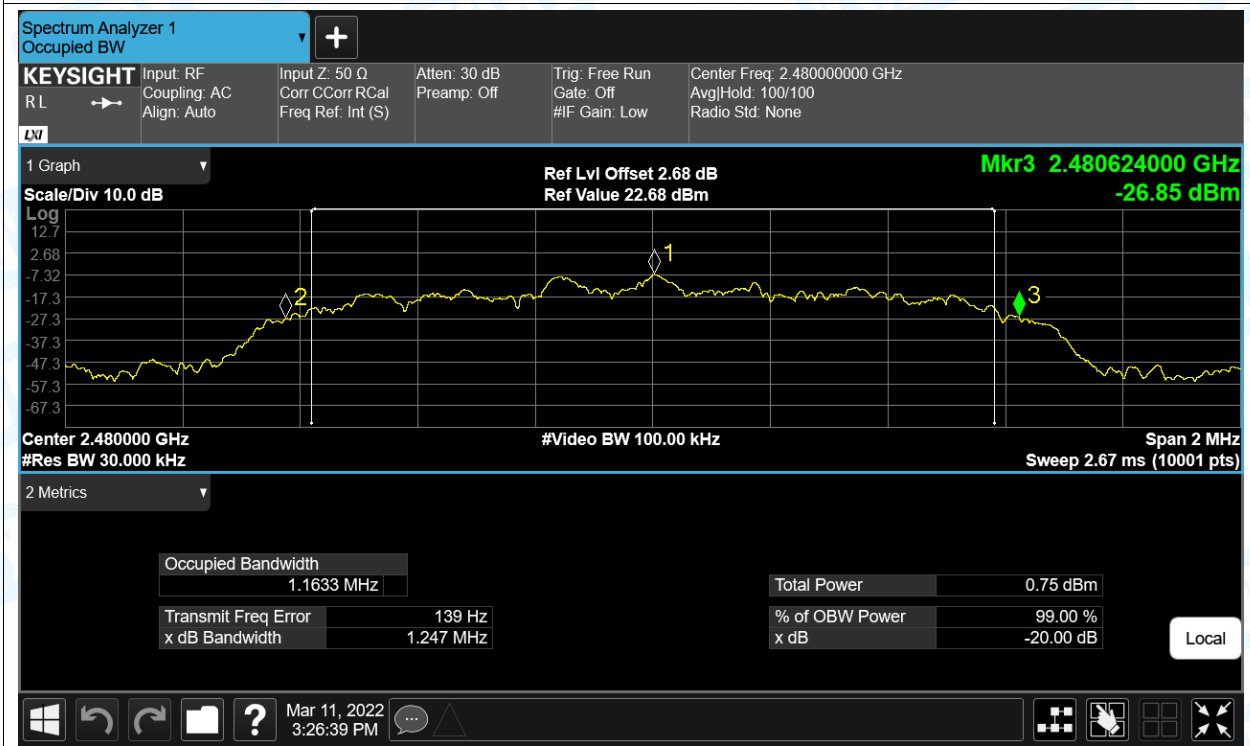




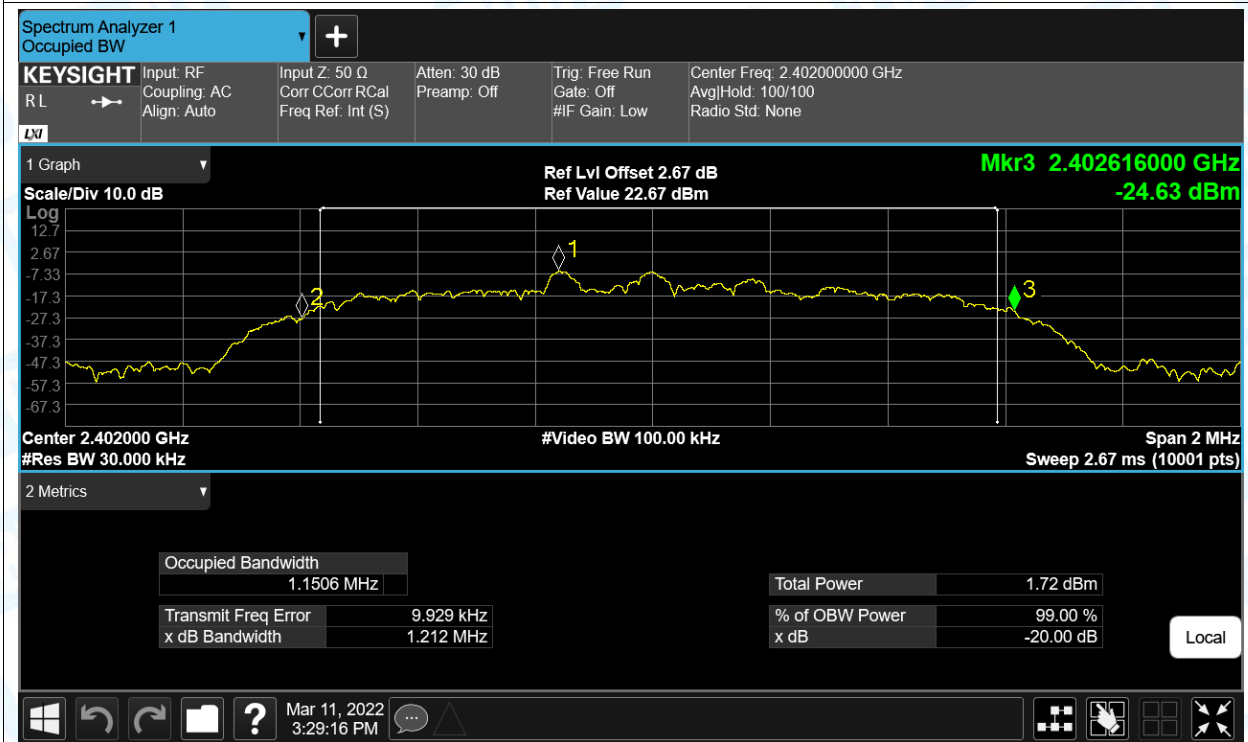
-20dB Bandwidth NVNT 2-DH1 2441MHz Ant1



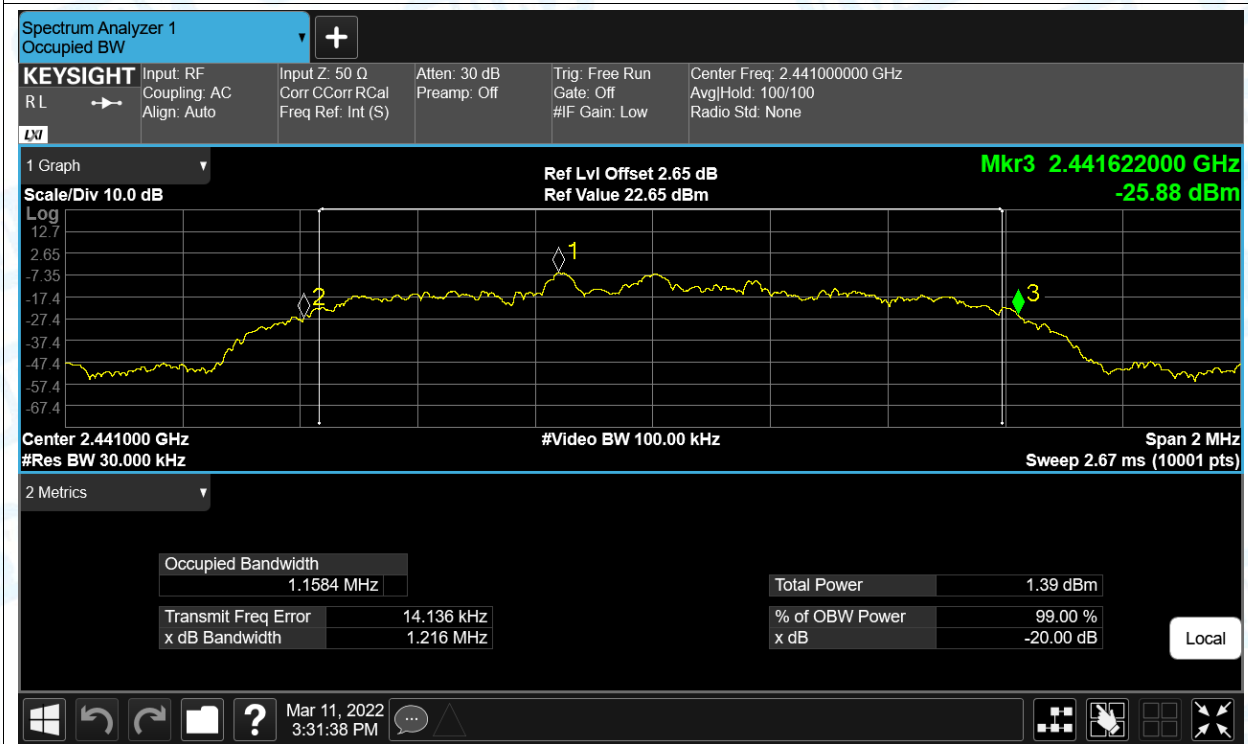
-20dB Bandwidth NVNT 2-DH1 2480MHz Ant1

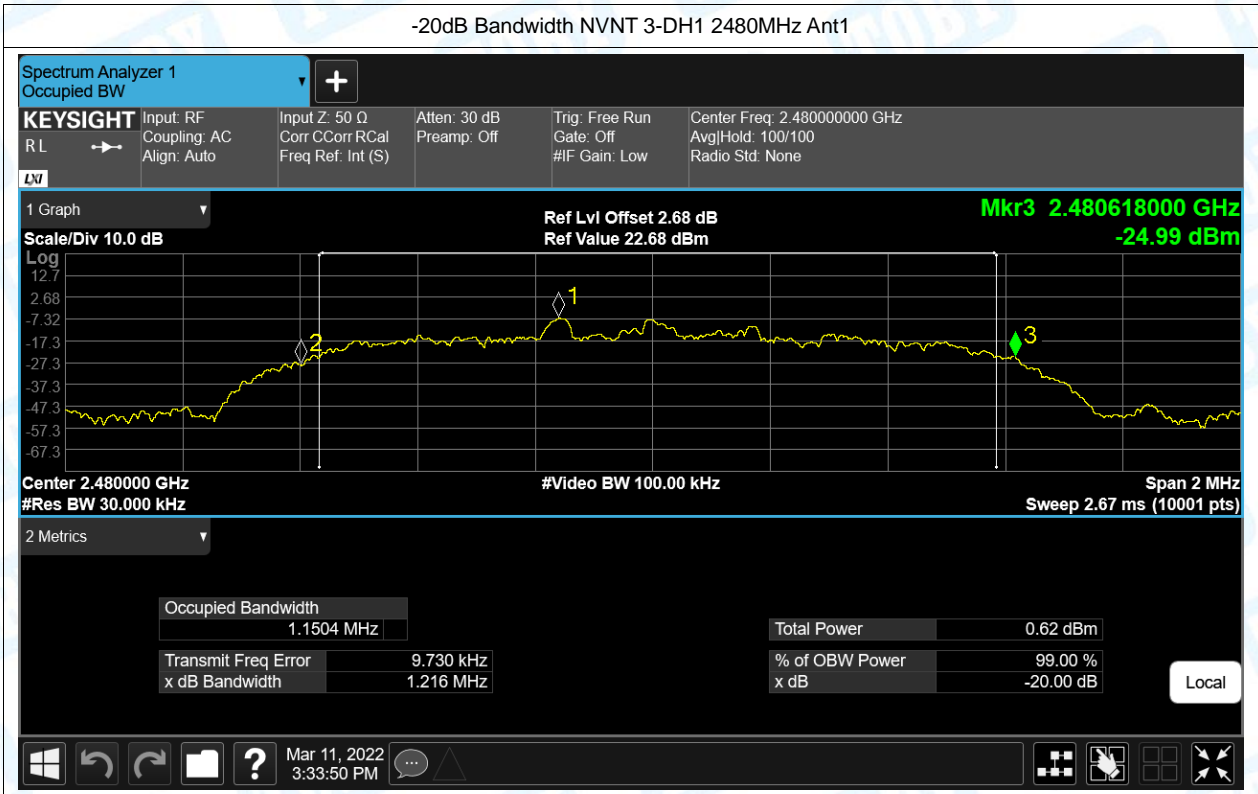


-20dB Bandwidth NVNT 3-DH1 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH1 2441MHz Ant1



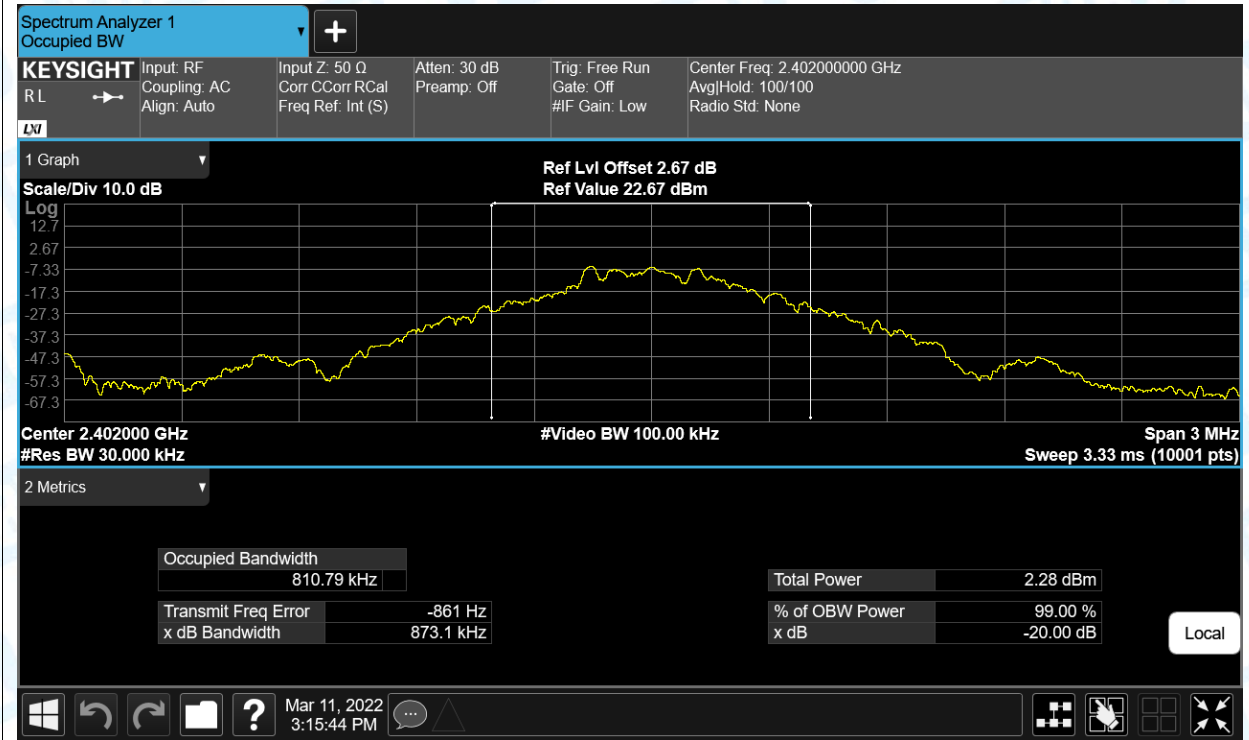


4. Occupied Channel Bandwidth

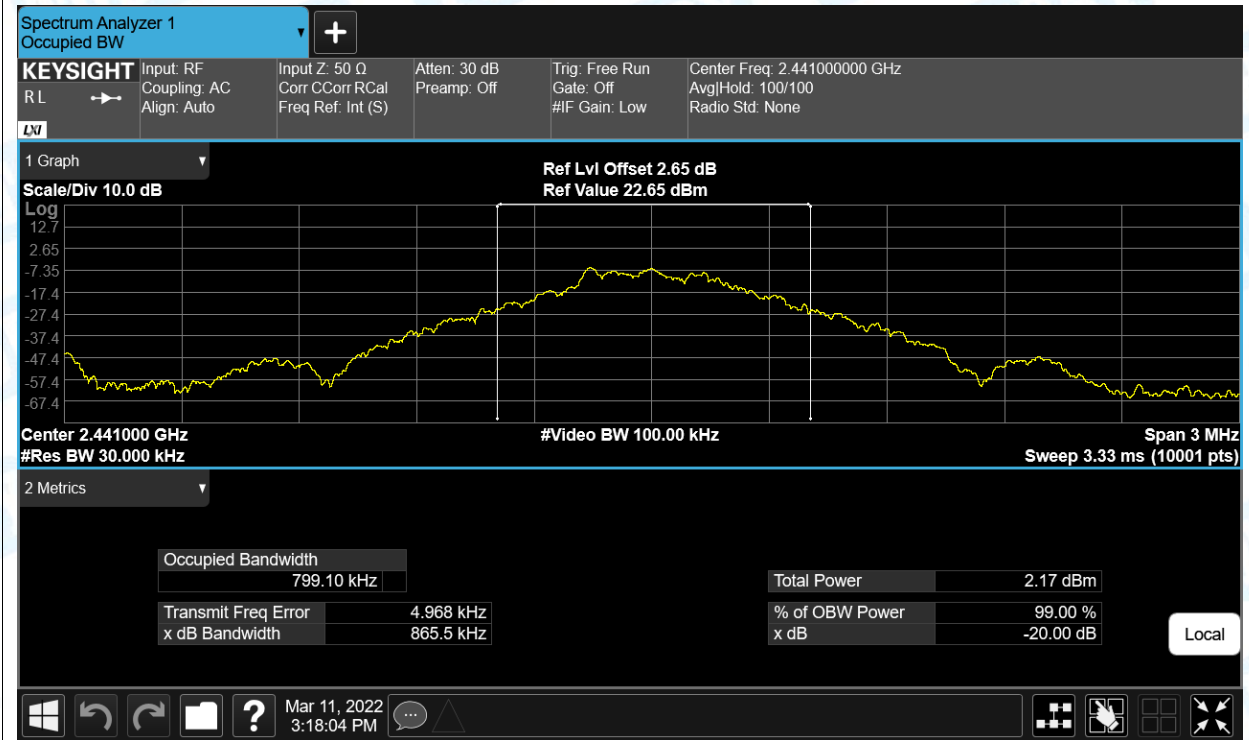
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	1-DH1	2402	Ant1	0.811
NVNT	1-DH1	2441	Ant1	0.799
NVNT	1-DH1	2480	Ant1	0.801
NVNT	2-DH1	2402	Ant1	1.126
NVNT	2-DH1	2441	Ant1	1.172
NVNT	2-DH1	2480	Ant1	1.149
NVNT	3-DH1	2402	Ant1	1.149
NVNT	3-DH1	2441	Ant1	1.16
NVNT	3-DH1	2480	Ant1	1.157

Test Graphs

OBW NVNT 1-DH1 2402MHz Ant1



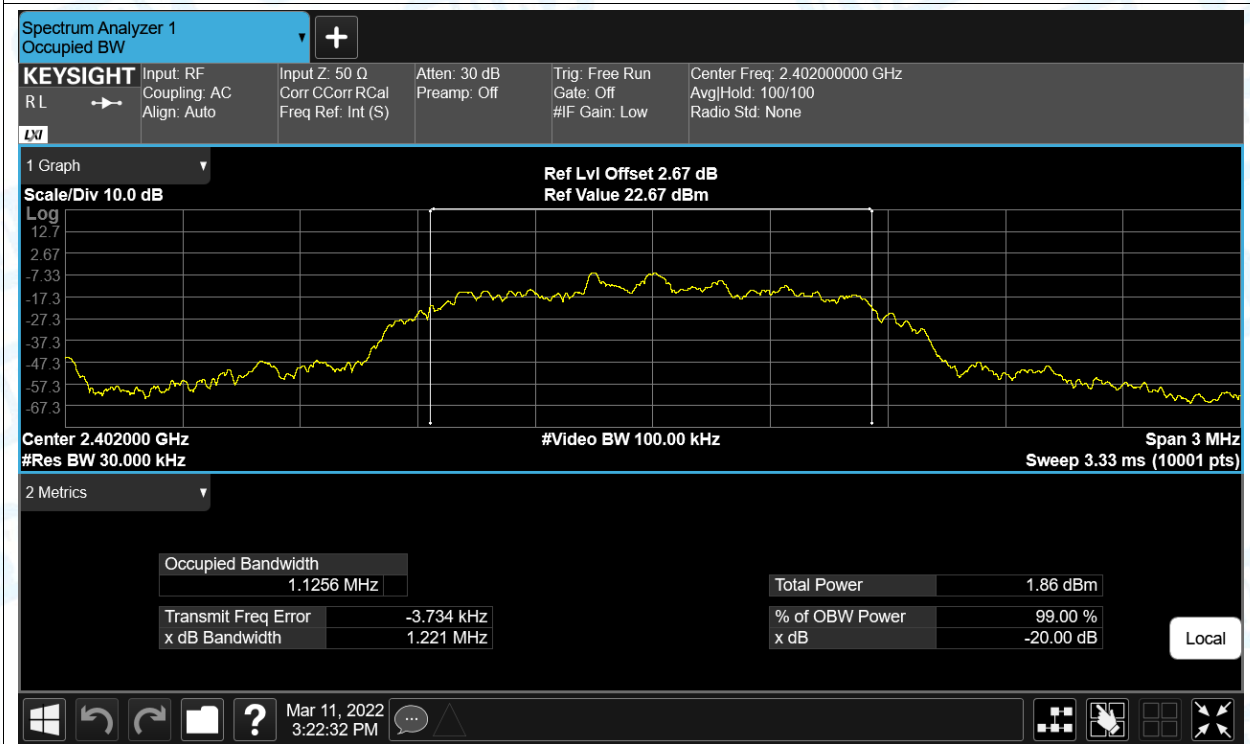
OBW NVNT 1-DH1 2441MHz Ant1



OBW NVNT 1-DH1 2480MHz Ant1



OBW NVNT 2-DH1 2402MHz Ant1

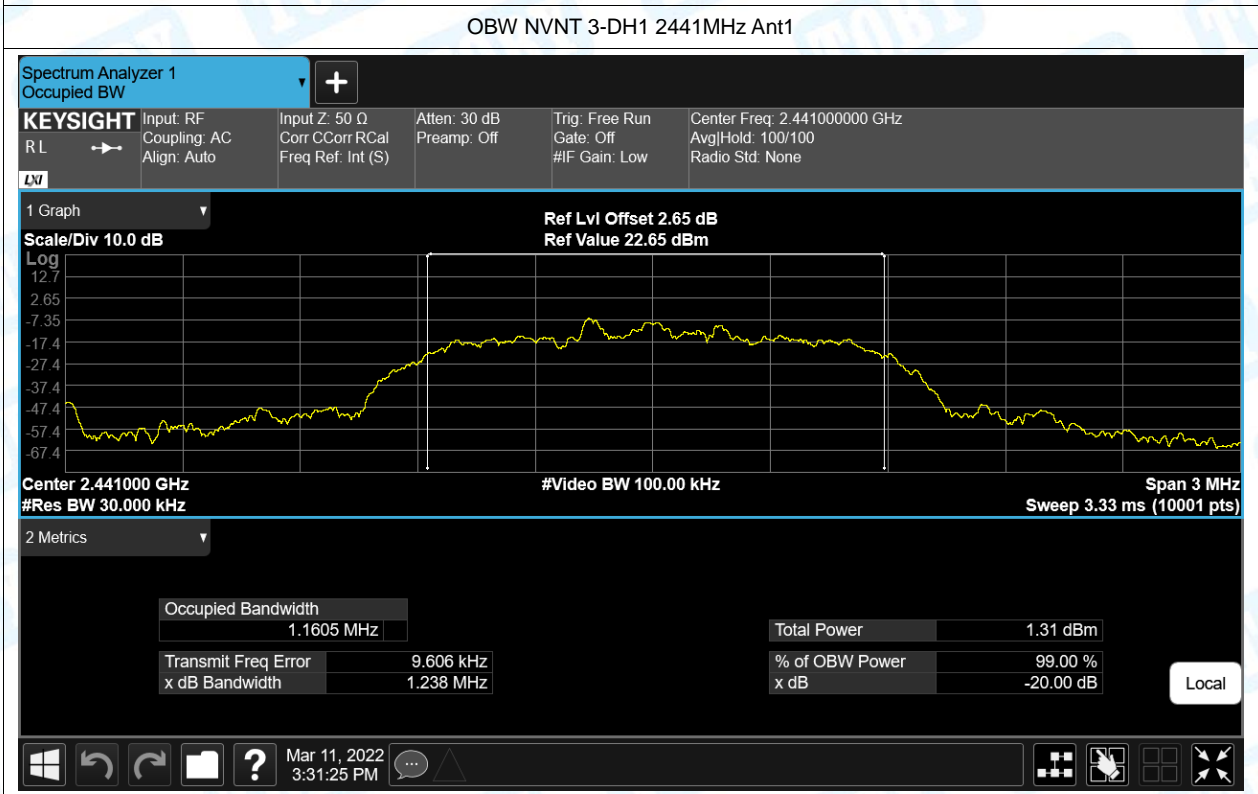
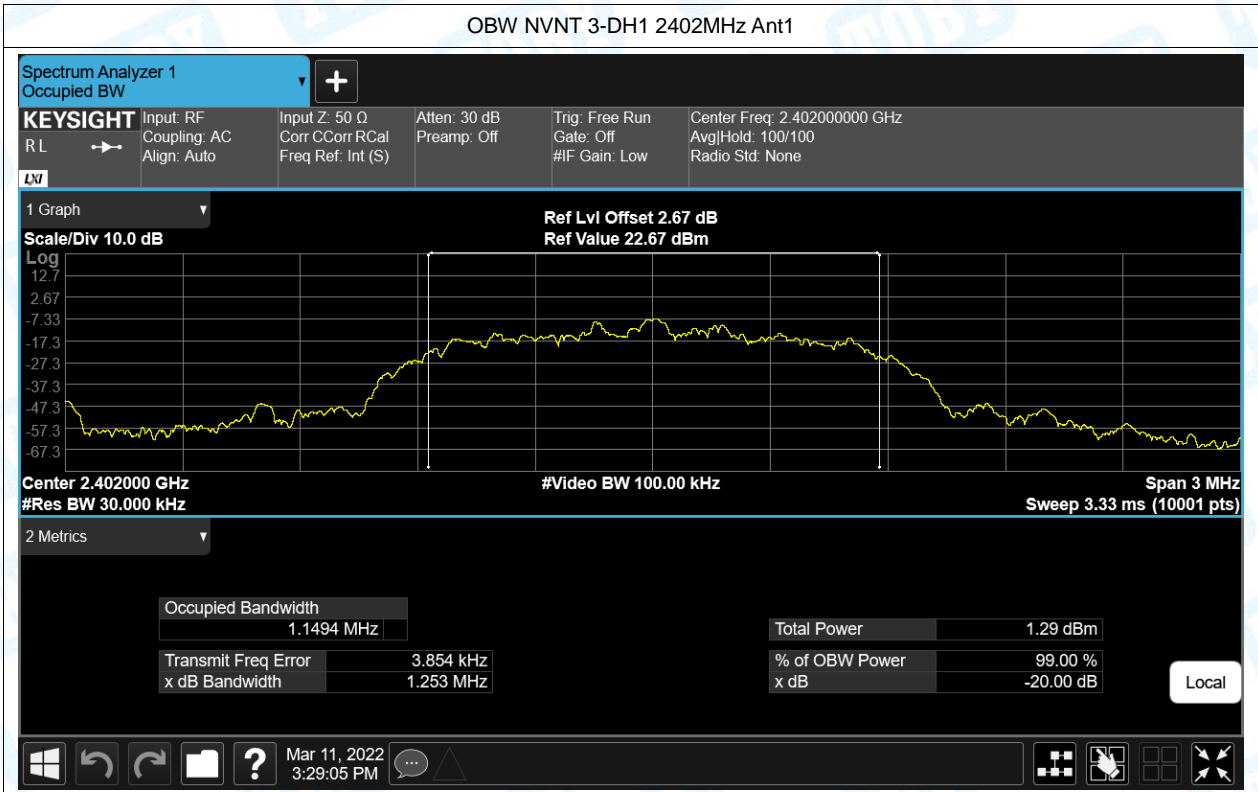


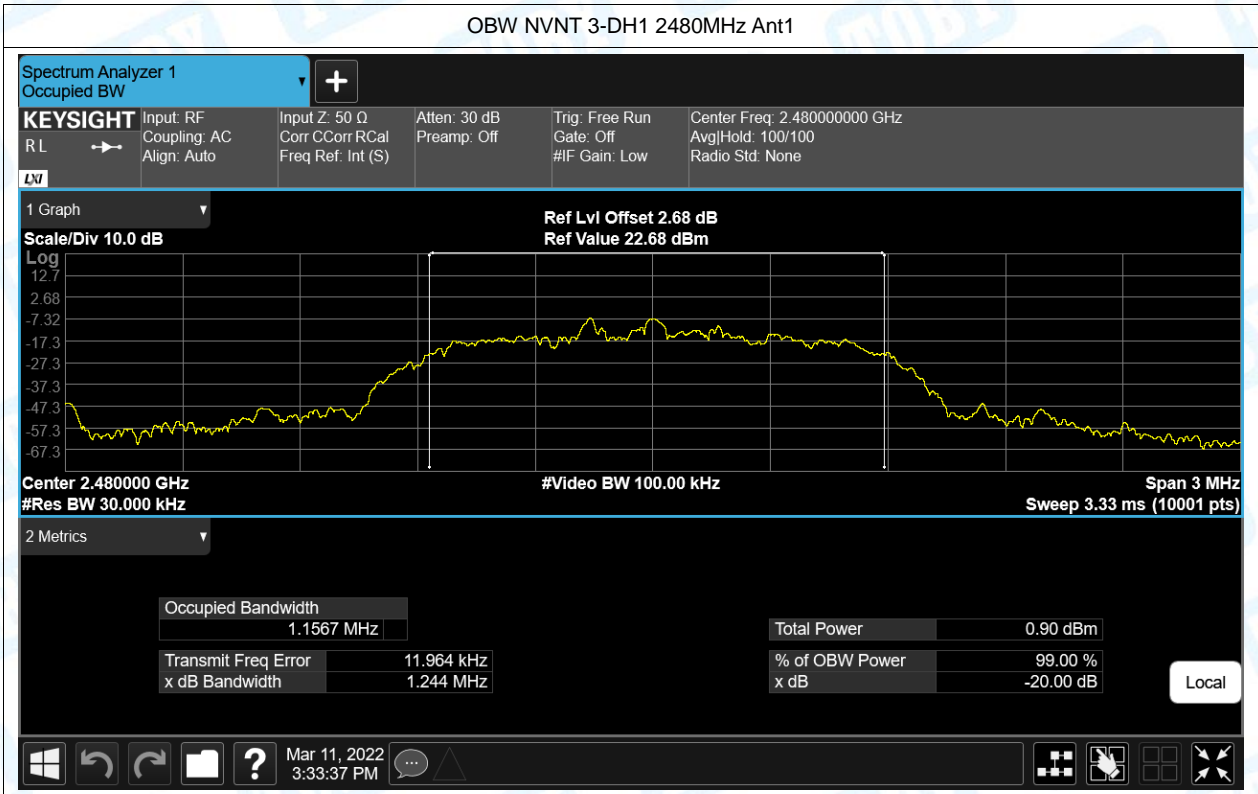
OBW NVNT 2-DH1 2441MHz Ant1



OBW NVNT 2-DH1 2480MHz Ant1





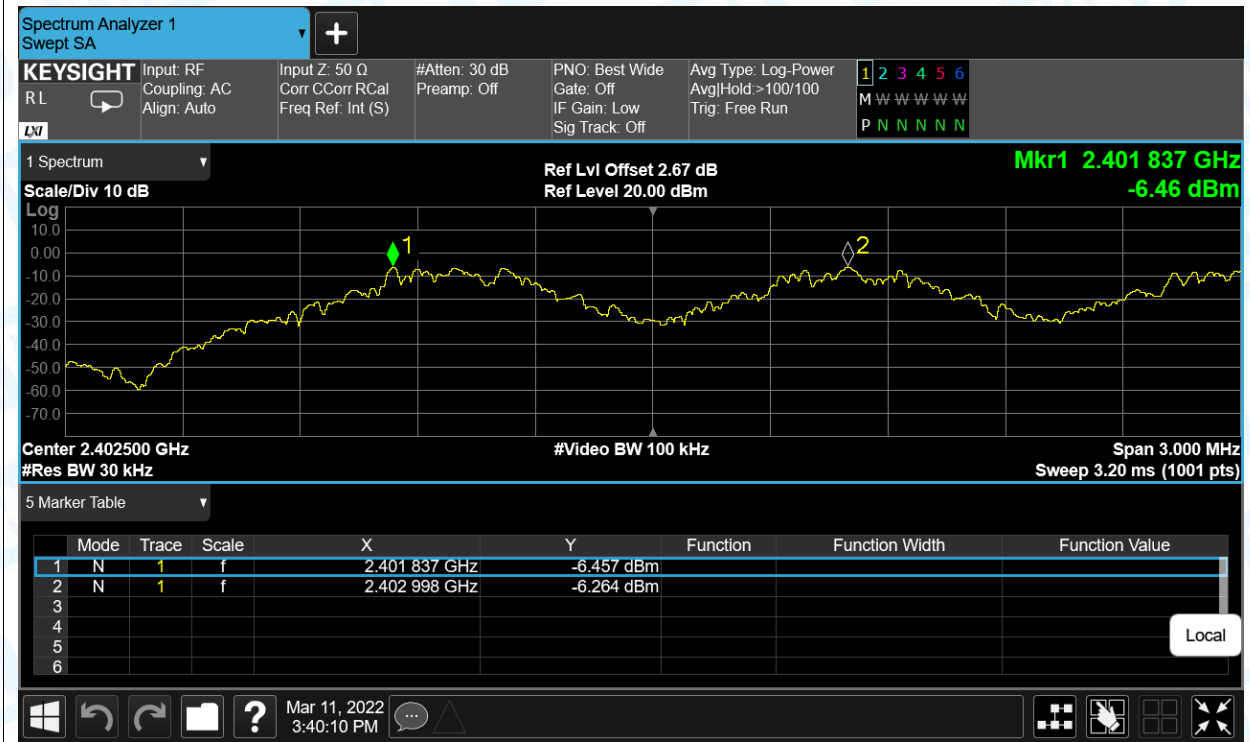


5. Carrier Frequencies Separation

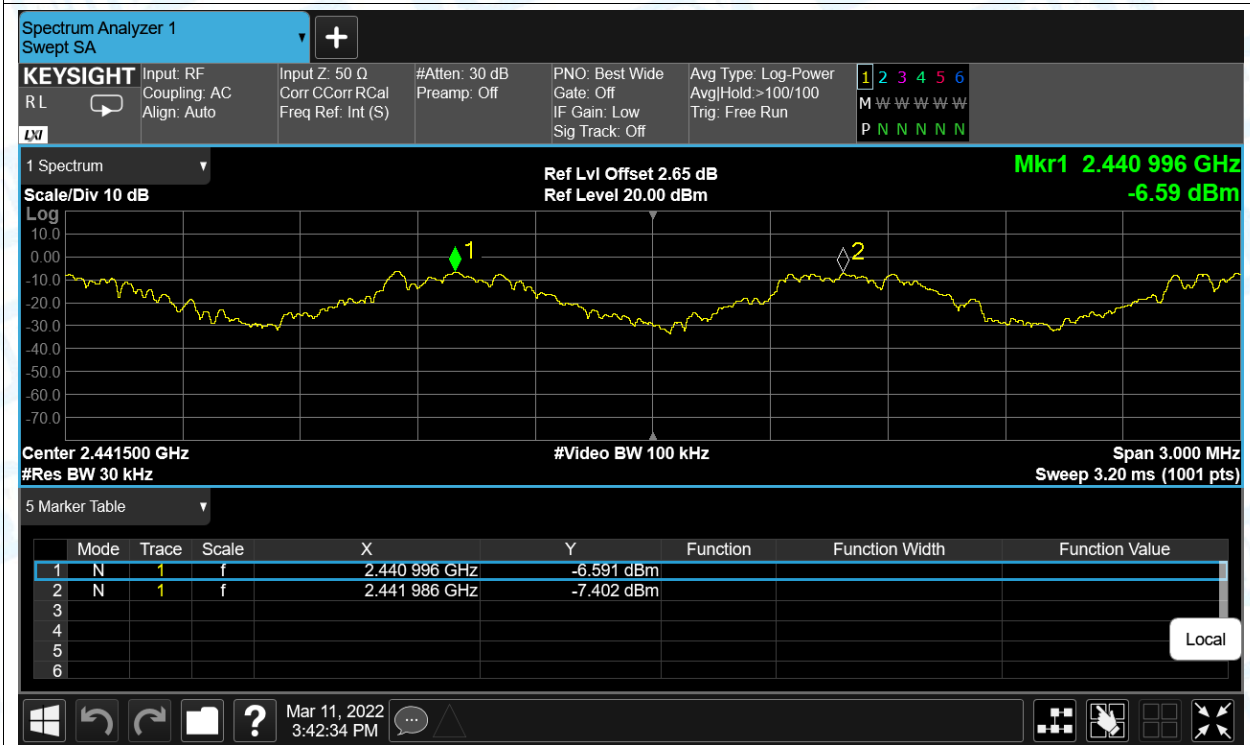
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH1	Ant1	2401.837	2402.998	1.161	0.58	Pass
NVNT	1-DH1	Ant1	2440.996	2441.986	0.99	0.573	Pass
NVNT	1-DH1	Ant1	2478.846	2480.118	1.272	0.607	Pass
NVNT	2-DH1	Ant1	2401.843	2402.992	1.149	0.82	Pass
NVNT	2-DH1	Ant1	2440.846	2441.839	0.993	0.833	Pass
NVNT	2-DH1	Ant1	2479.008	2480.007	0.999	0.833	Pass
NVNT	3-DH1	Ant1	2401.843	2403.001	1.158	0.807	Pass
NVNT	3-DH1	Ant1	2441.005	2441.995	0.99	0.813	Pass
NVNT	3-DH1	Ant1	2479.011	2479.854	0.843	0.813	Pass

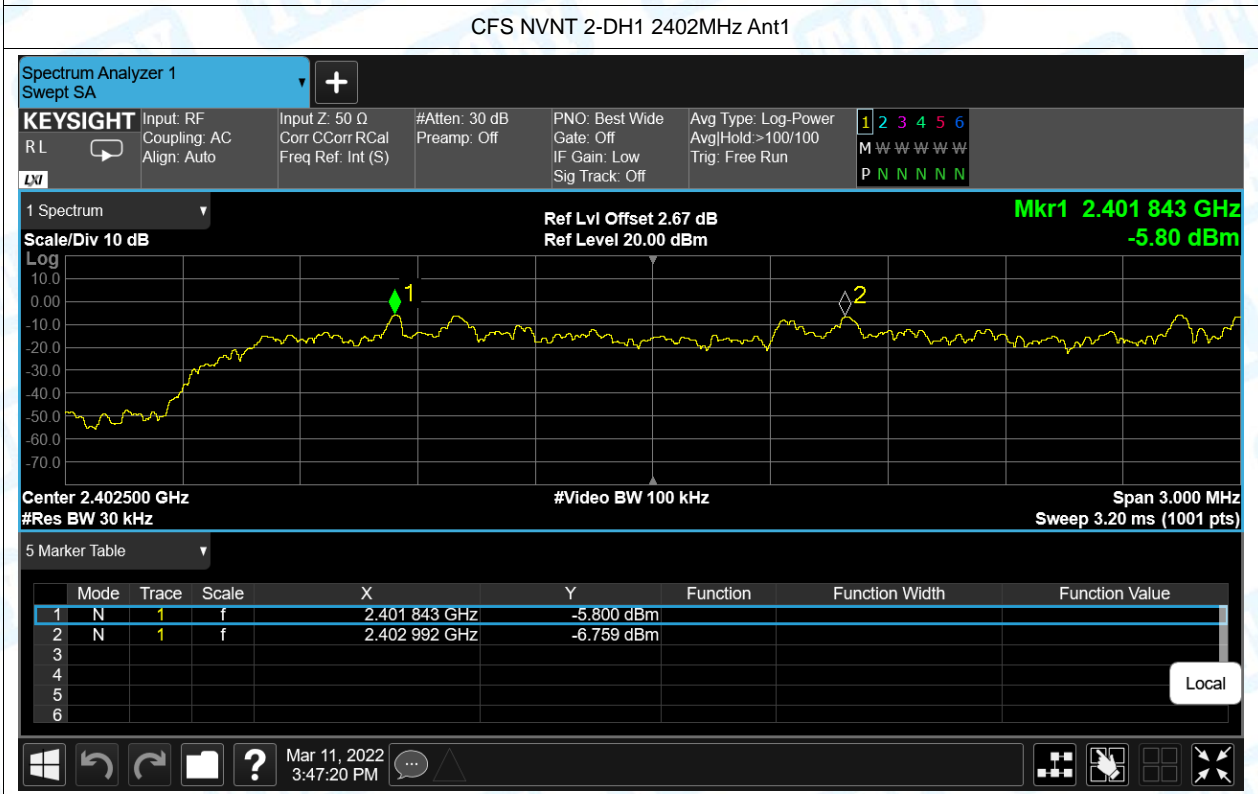
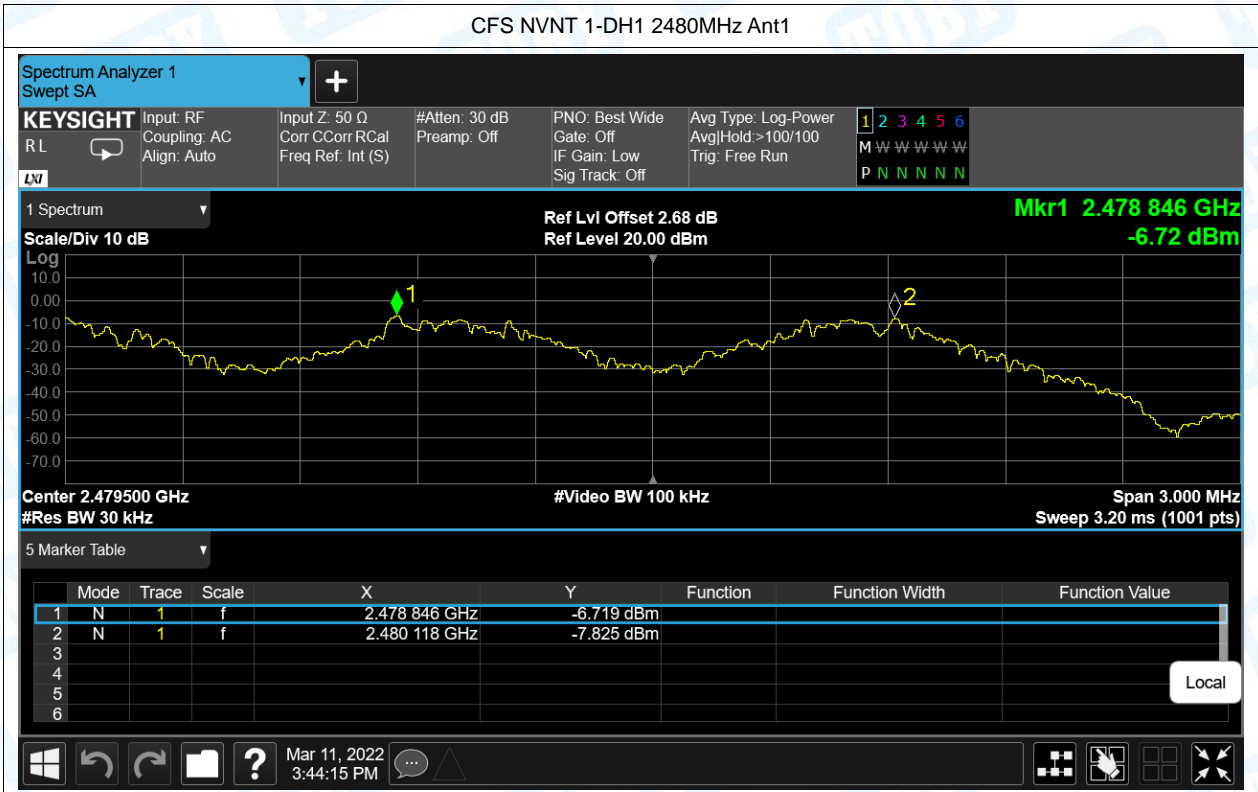
Test Graphs

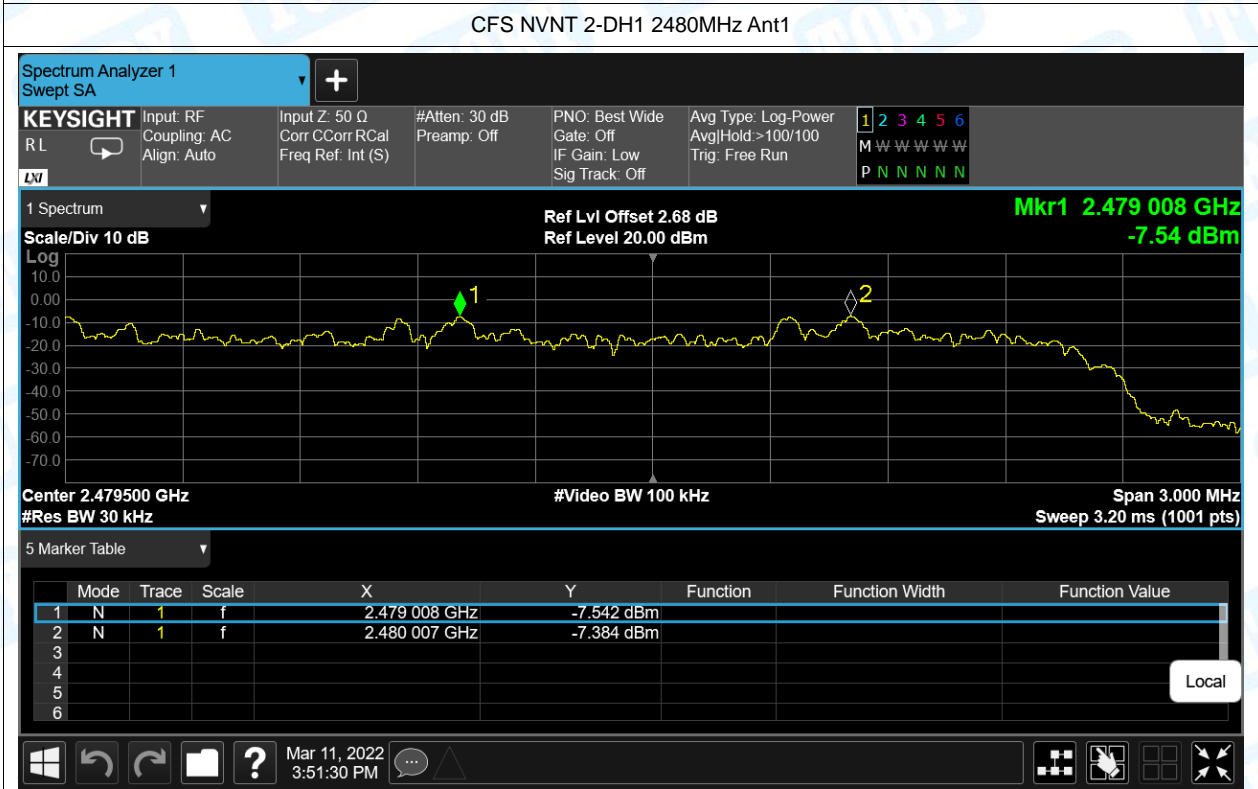
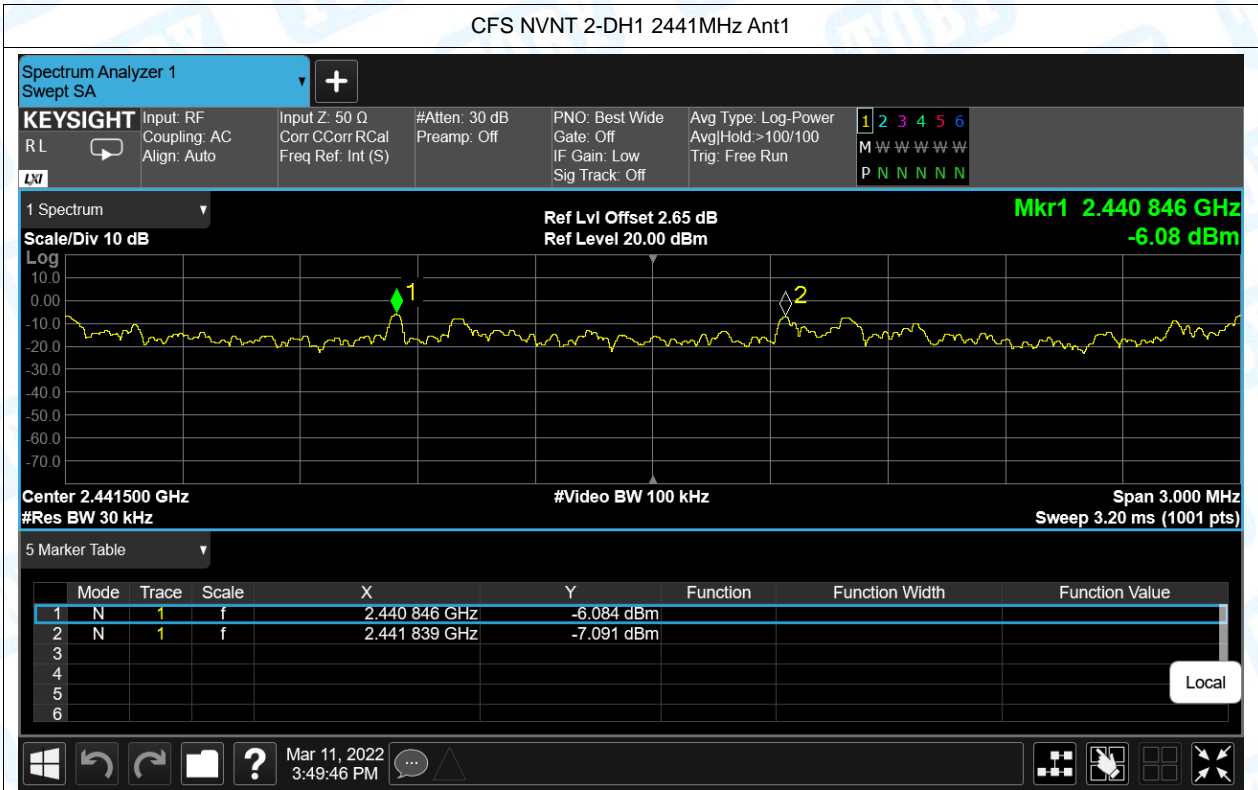
CFS NVNT 1-DH1 2402MHz Ant1

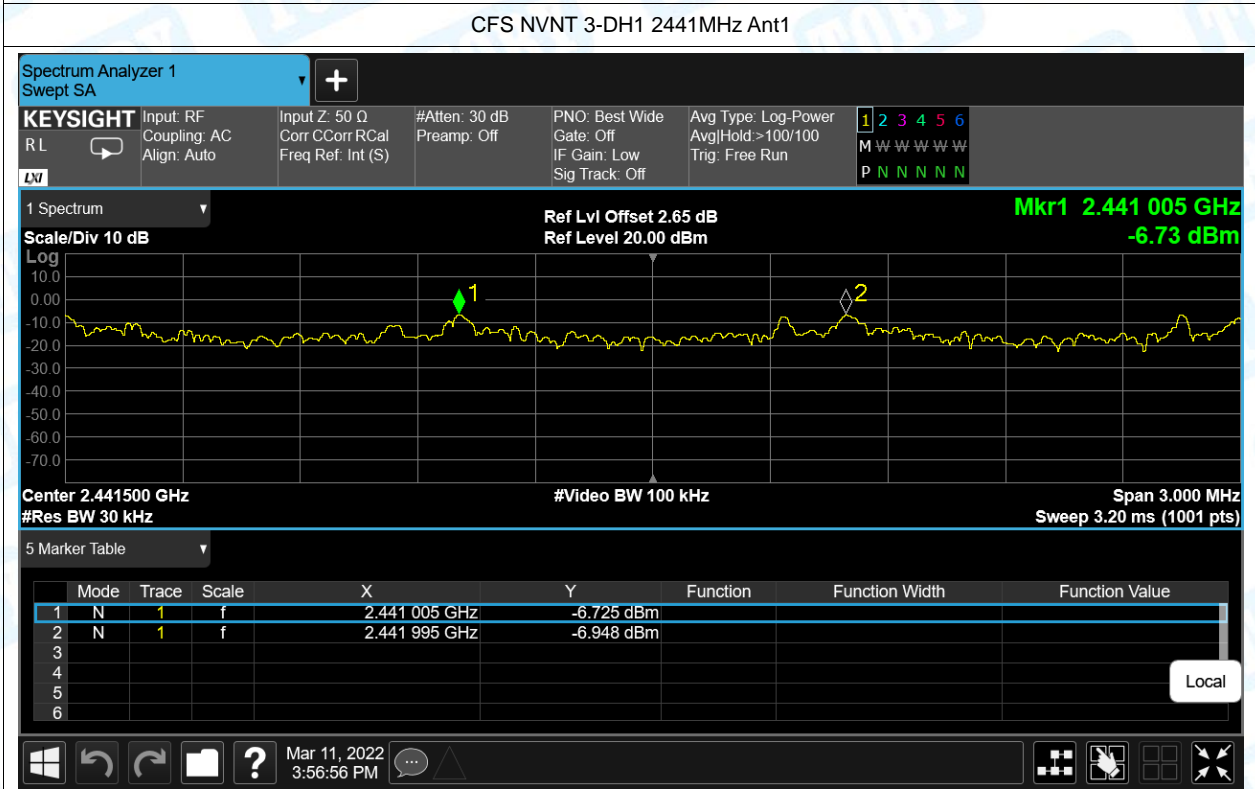
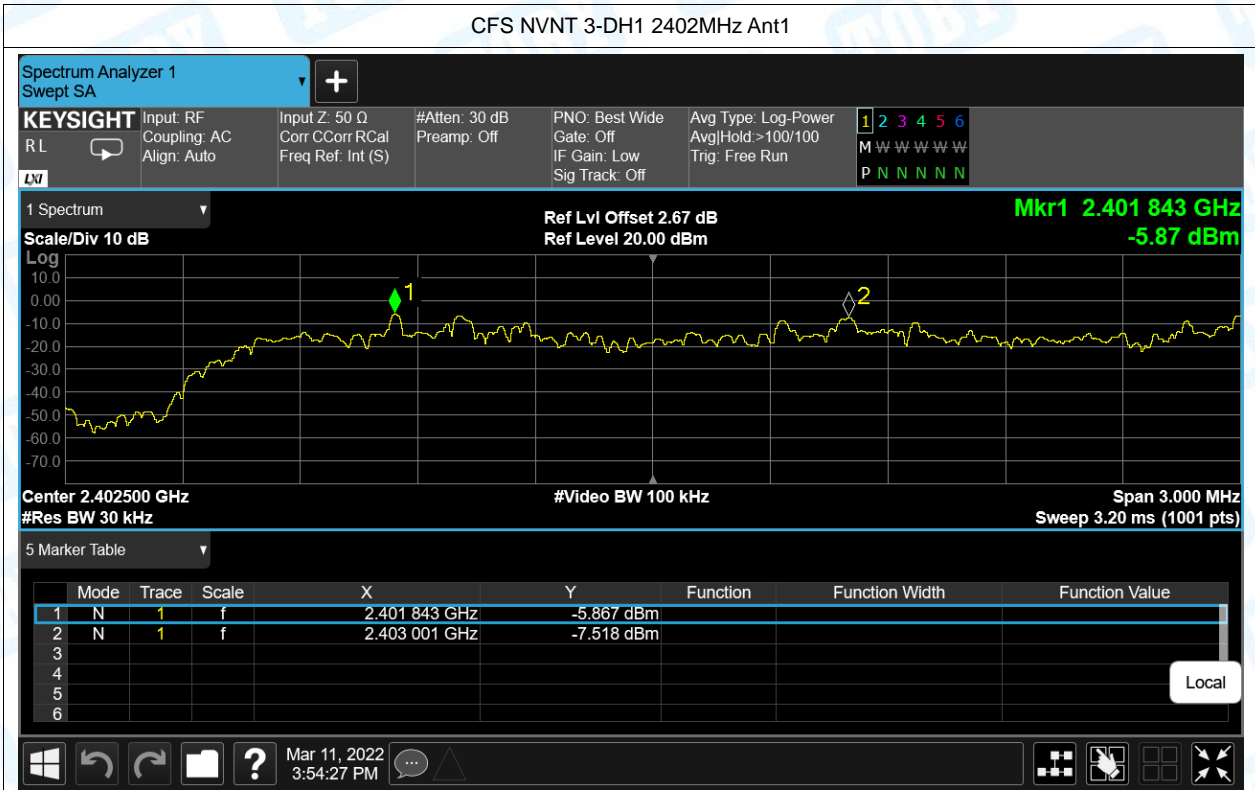


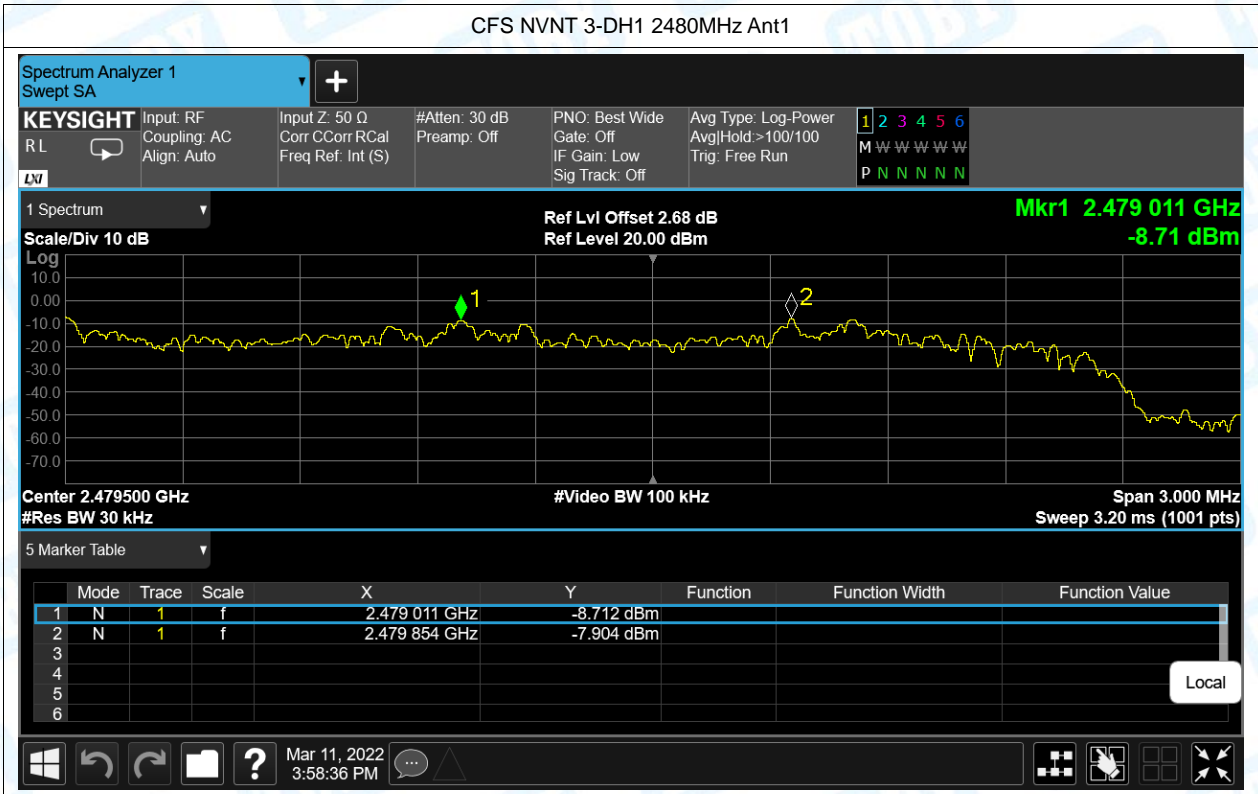
CFS NVNT 1-DH1 2441MHz Ant1









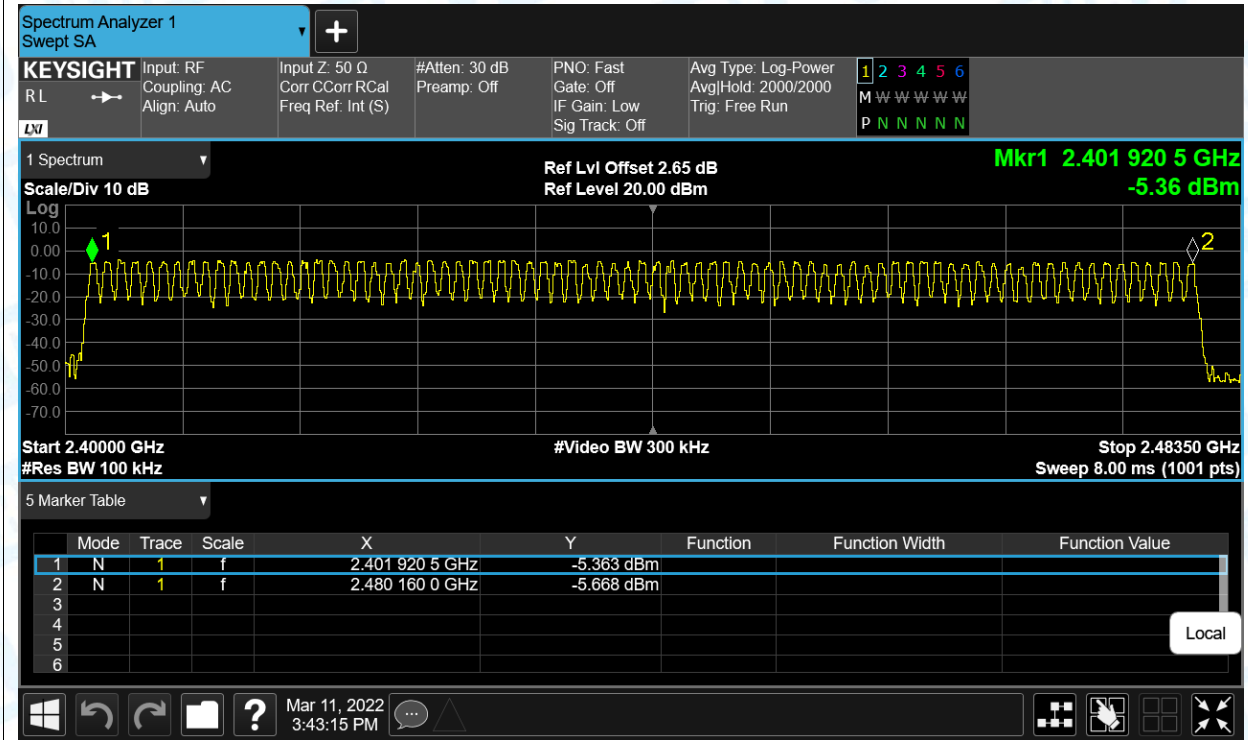


6. Number of Hopping Channel

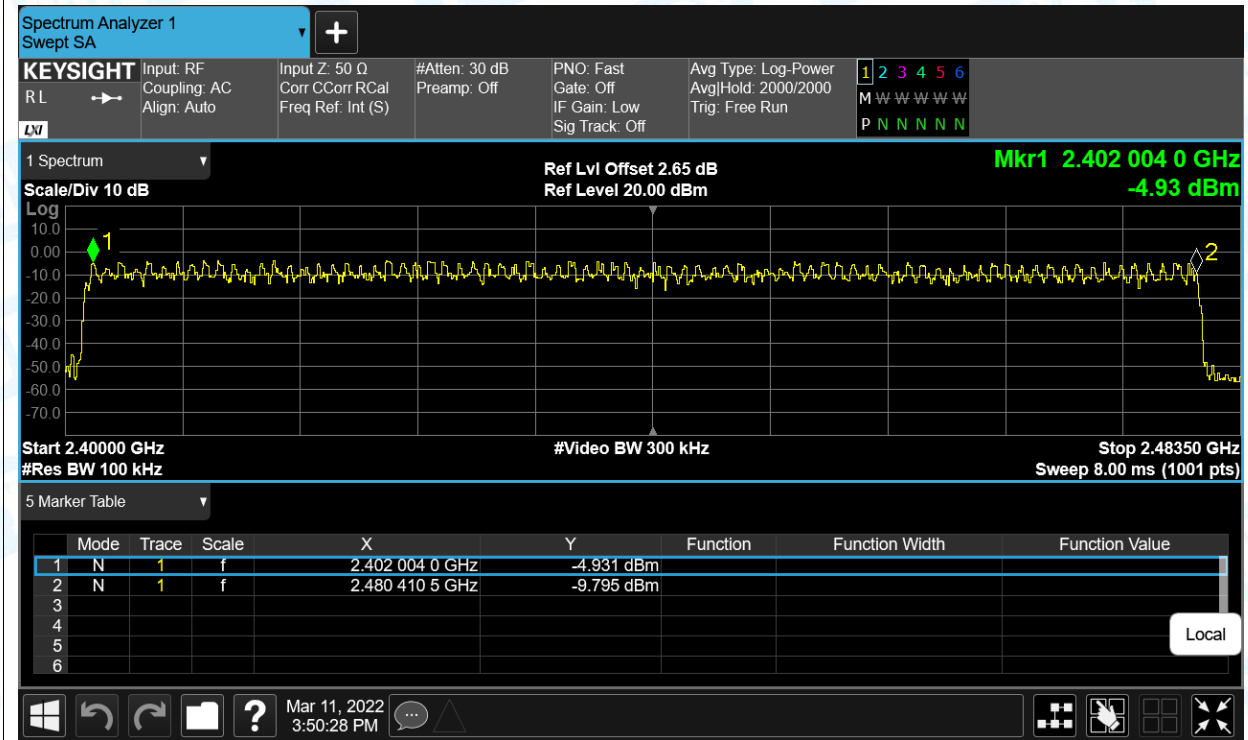
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH1	Ant1	79	15	Pass
NVNT	2-DH1	Ant1	79	15	Pass
NVNT	3-DH1	Ant1	79	15	Pass

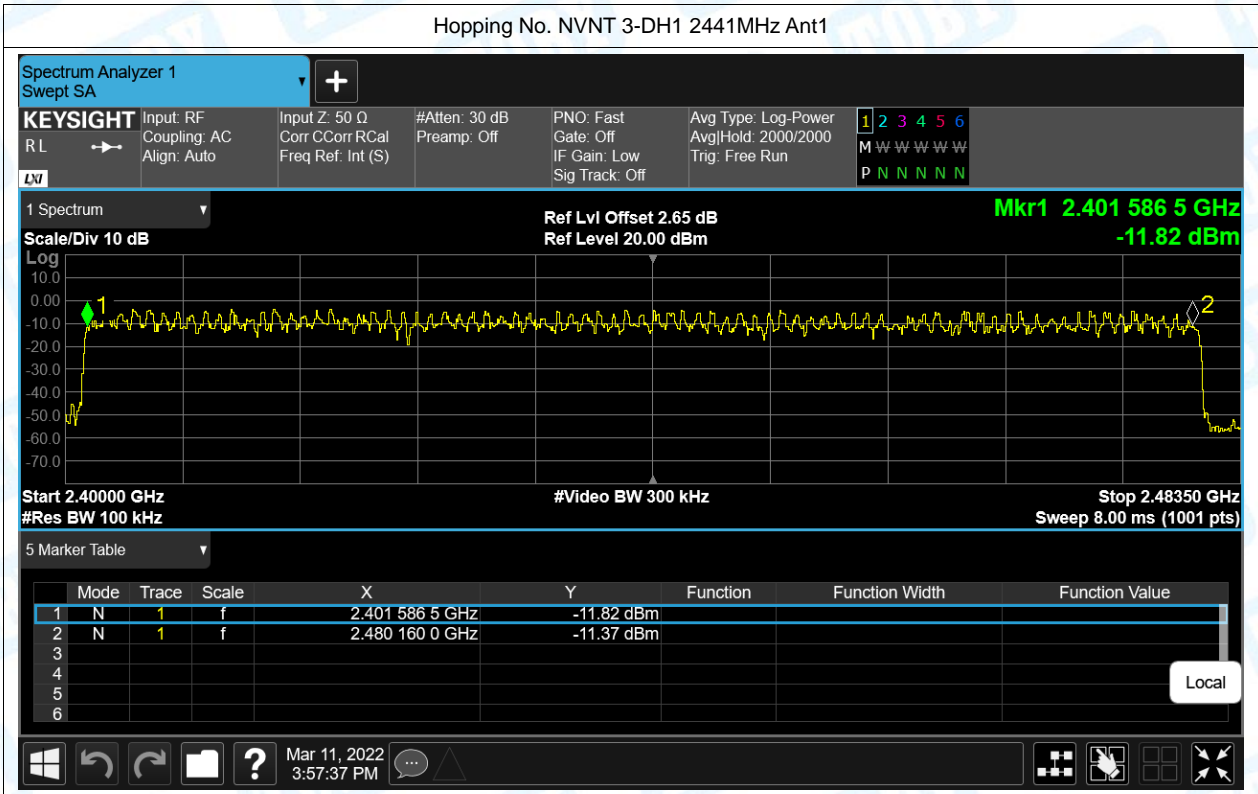
Test Graphs

Hopping No. NVNT 1-DH1 2441MHz Ant1



Hopping No. NVNT 2-DH1 2441MHz Ant1



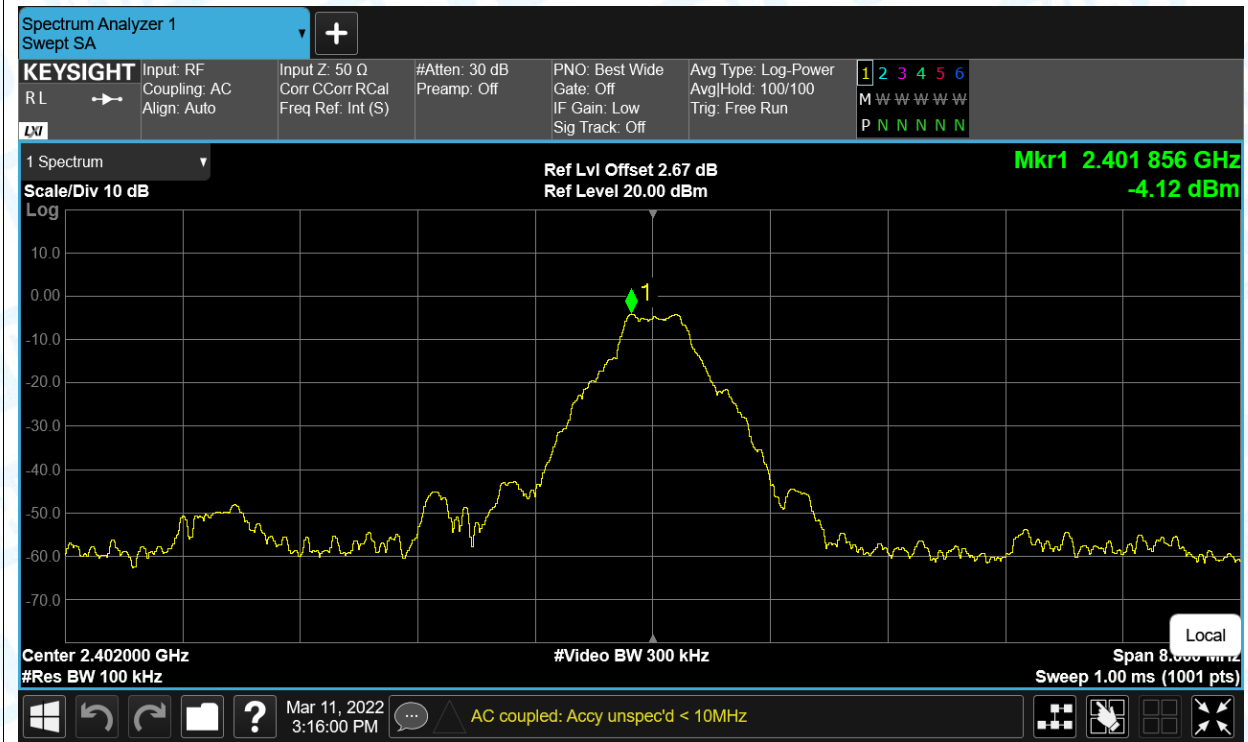


7. Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	No-Hopping	-49.89	-20	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	-46.05	-20	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	-50.44	-20	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	-49.23	-20	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	-49.83	-20	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	-48.55	-20	Pass

Test Graphs

Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Ref



Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Emission

