

RF Test Data for 2.4G WiFi (Conducted Measurements)

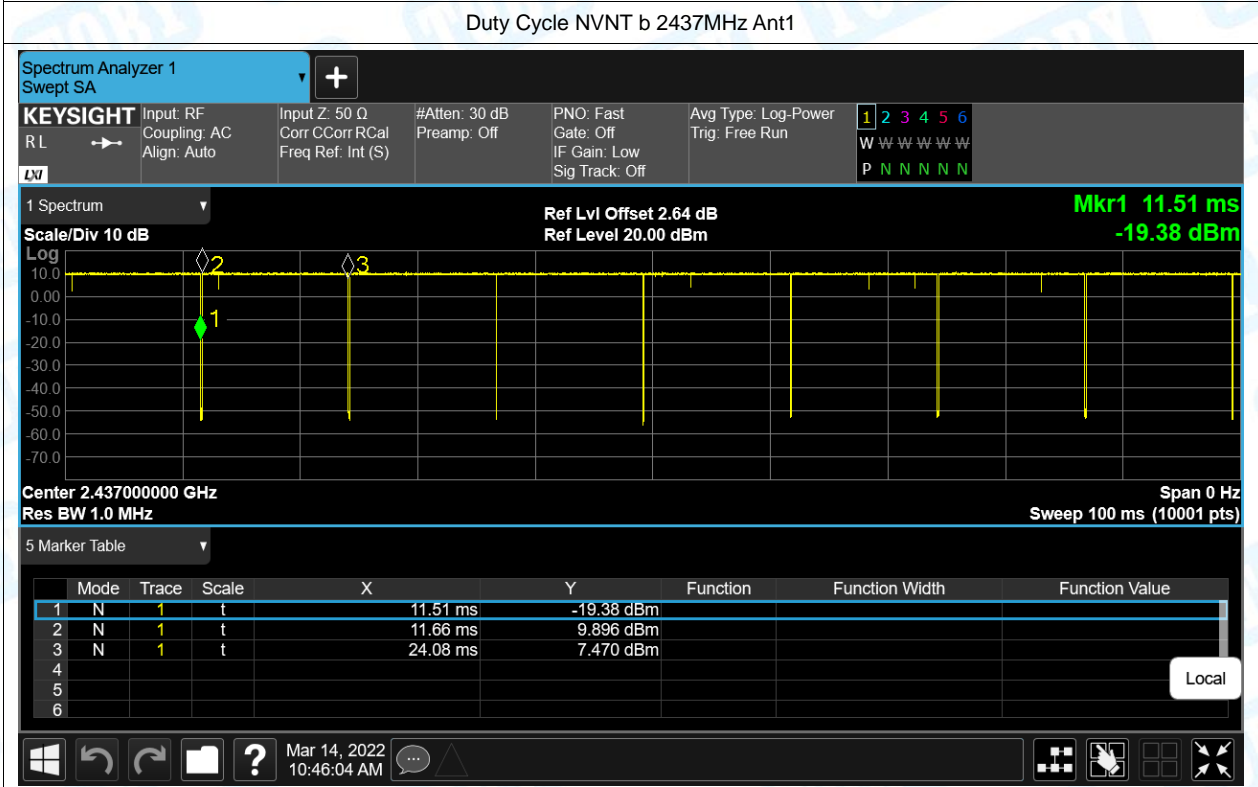
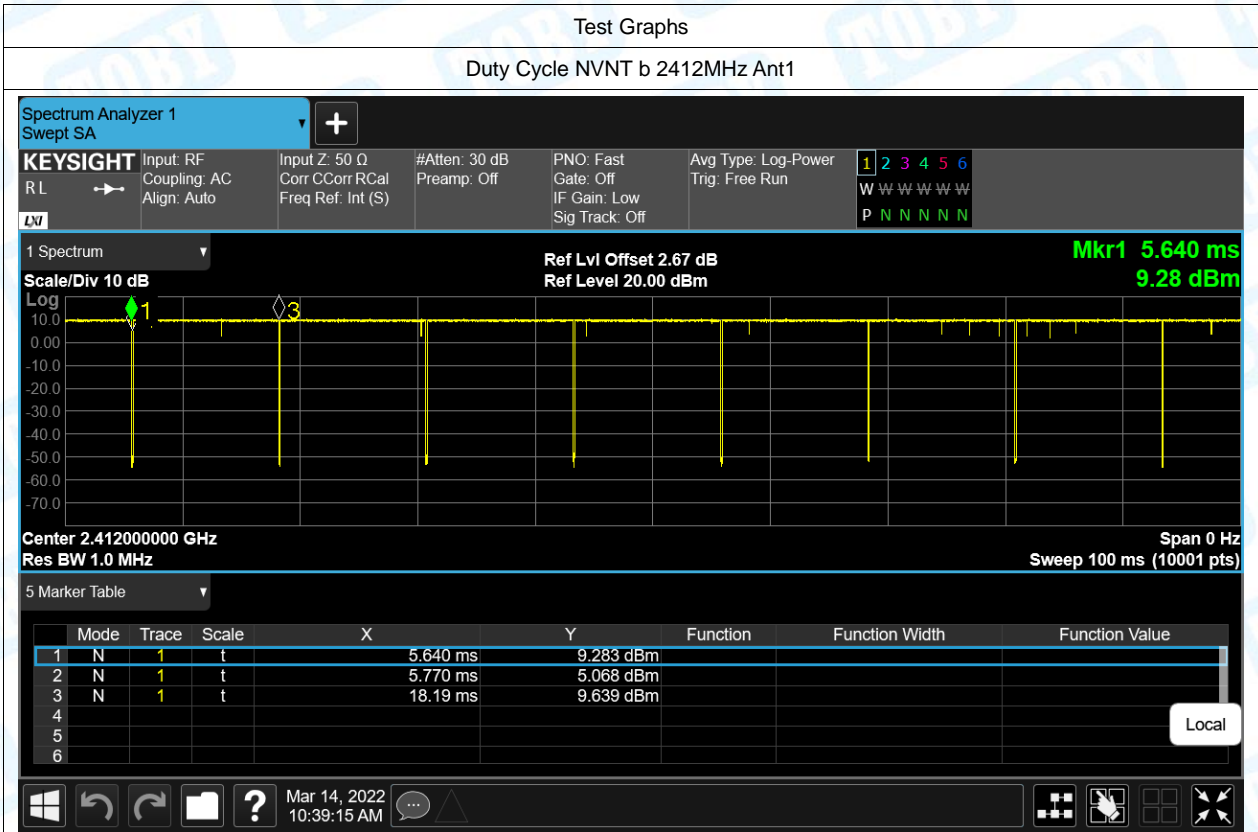
General Description of EUT	
Product Name:	LED PROJECTOR
Test Model:	X9
Sample ID:	202202-0189_01-02
Environmental Conditions	
Temperature:	25°C
Relative Humidity:	55%
Test Voltage:	AC 110V
Test Engineer:	Huangjianping
Note: For a more detailed features description, please refer to the report TBR-C-202202-0189-11	

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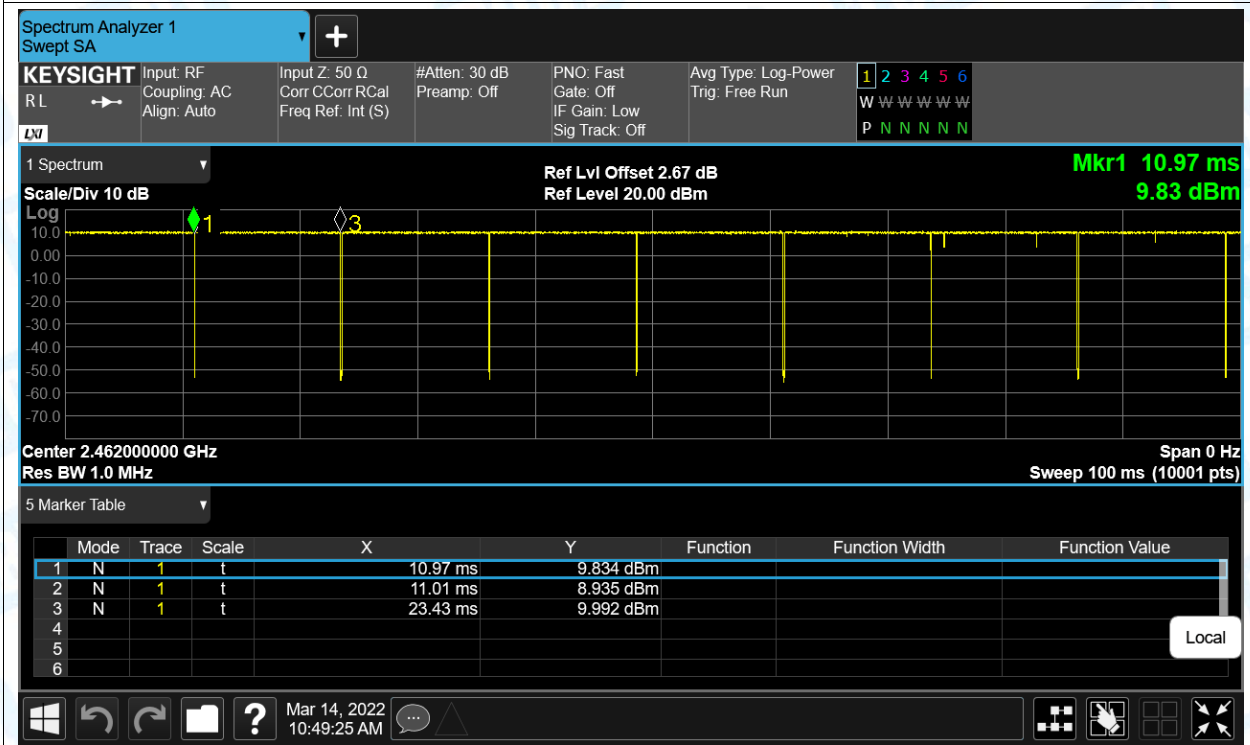
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1. Duty Cycle

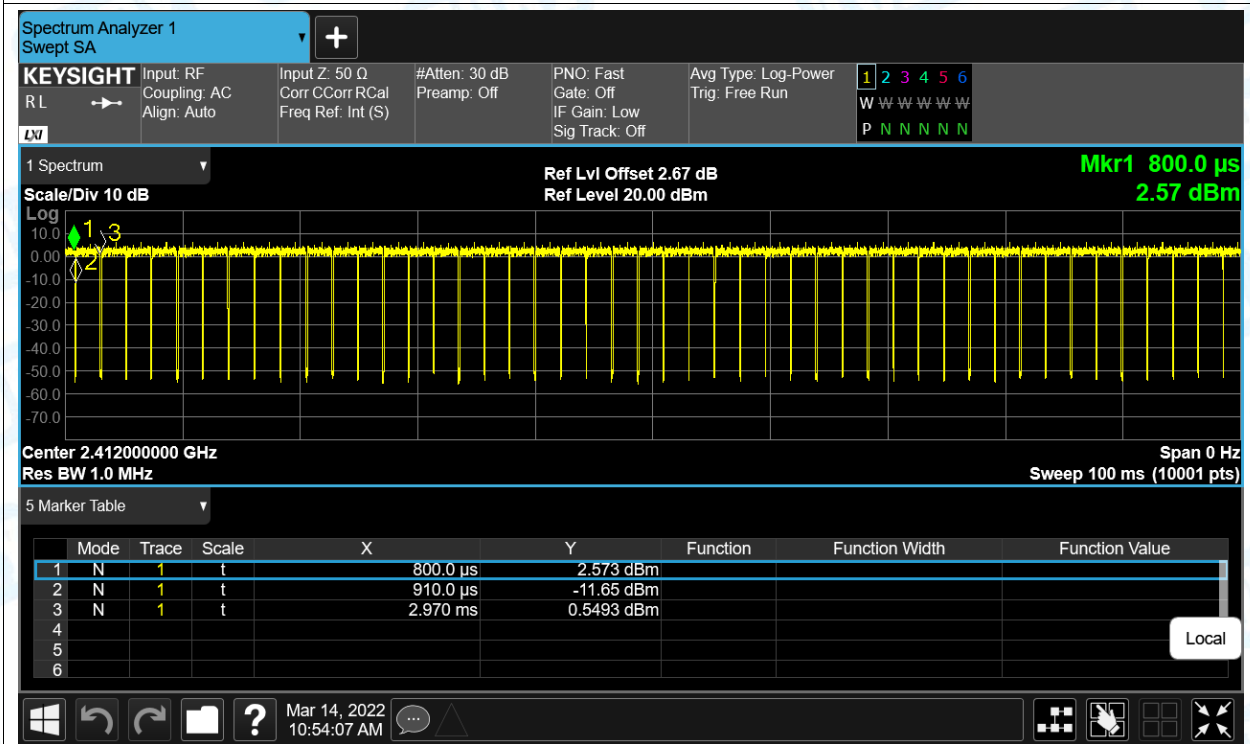
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)
NVNT	b	2412	Ant1	99.29
NVNT	b	2437	Ant1	99.17
NVNT	b	2462	Ant1	99.21
NVNT	g	2412	Ant1	95.66
NVNT	g	2437	Ant1	95.49
NVNT	g	2462	Ant1	95.98
NVNT	n(HT20)	2412	Ant1	95.44
NVNT	n(HT20)	2437	Ant1	95.7
NVNT	n(HT20)	2462	Ant1	95.45
NVNT	n(HT40)	2422	Ant1	91.65
NVNT	n(HT40)	2437	Ant1	91.53
NVNT	n(HT40)	2452	Ant1	90.63



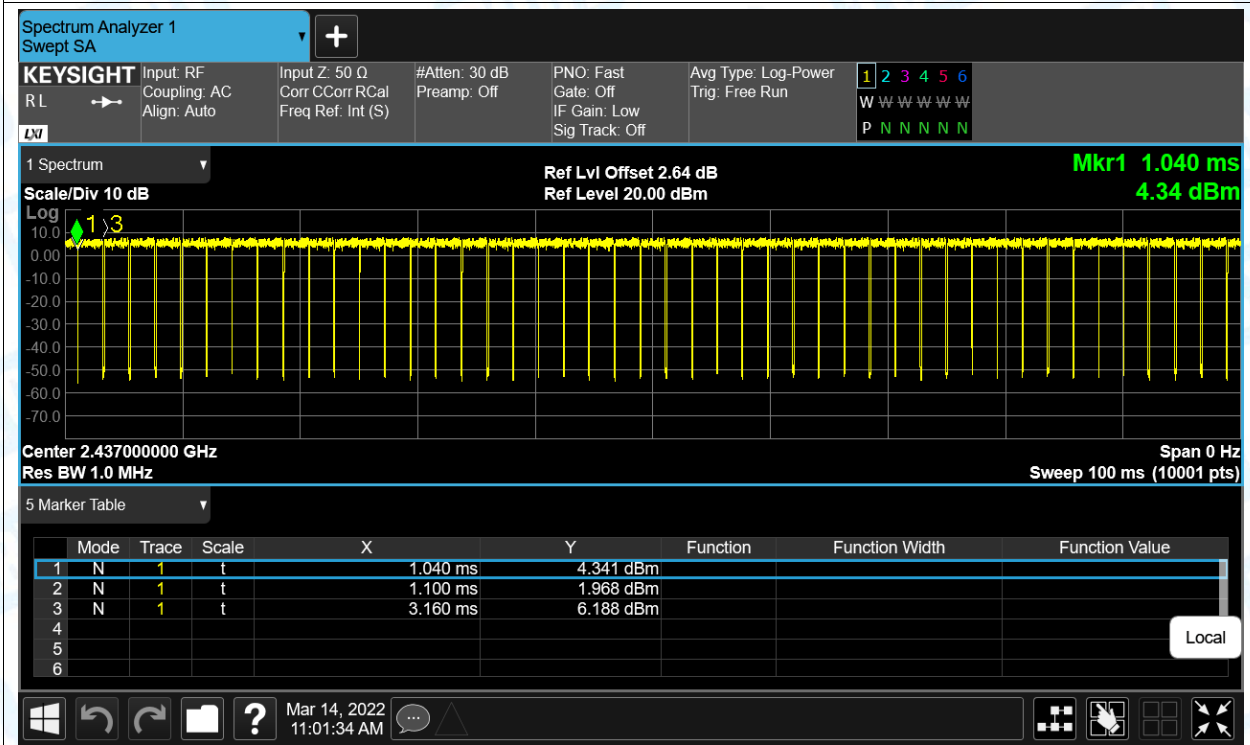
Duty Cycle NVNT b 2462MHz Ant1



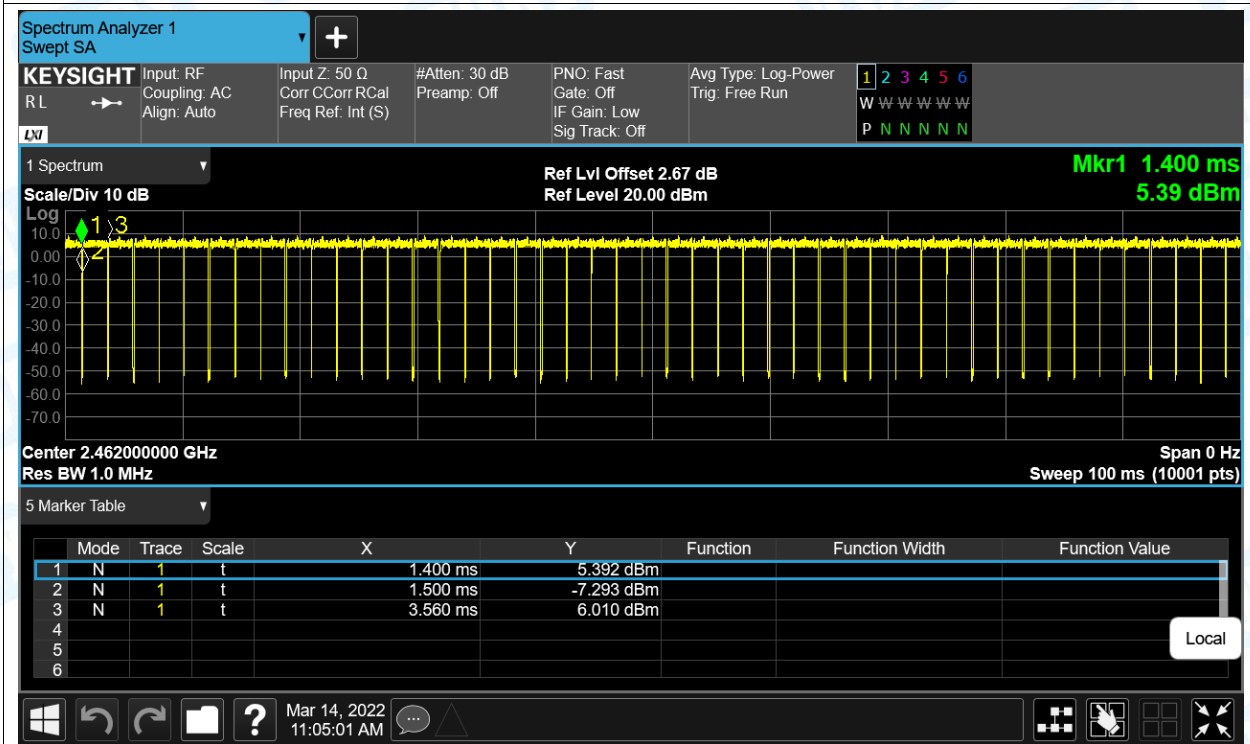
Duty Cycle NVNT g 2412MHz Ant1



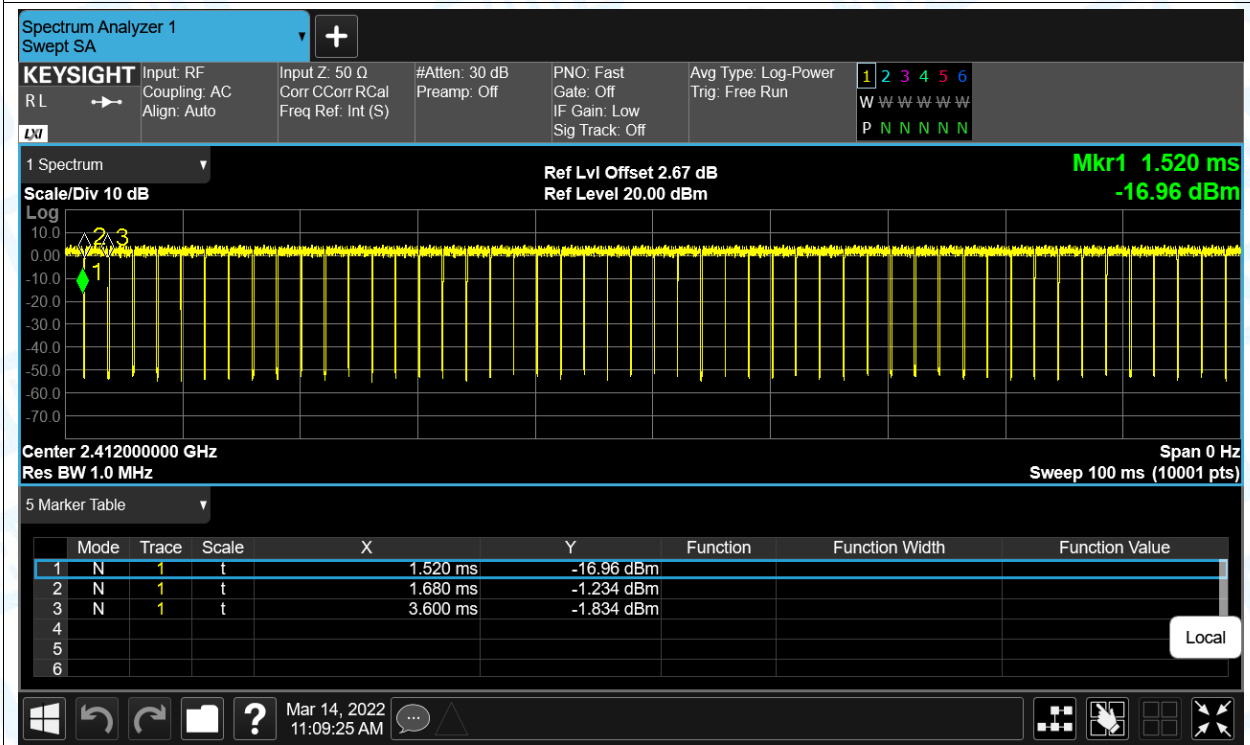
Duty Cycle NVNT g 2437MHz Ant1



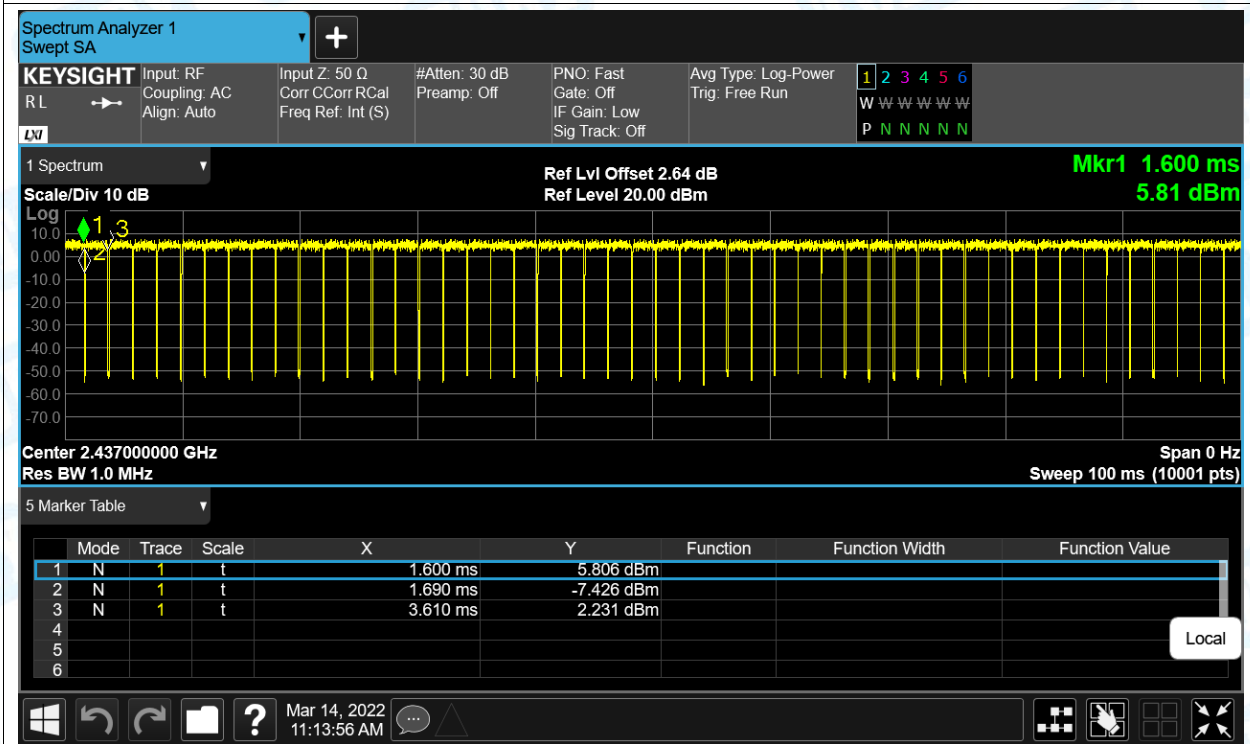
Duty Cycle NVNT g 2462MHz Ant1



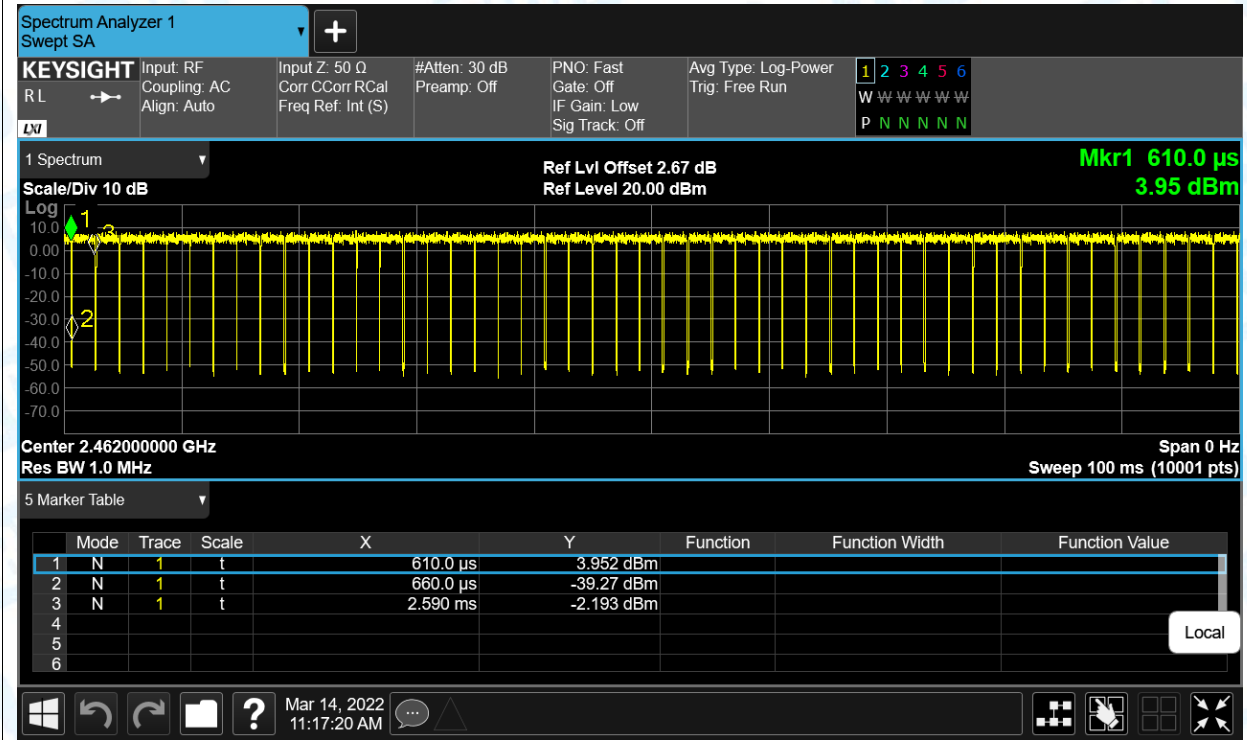
Duty Cycle NVNT n(HT20) 2412MHz Ant1



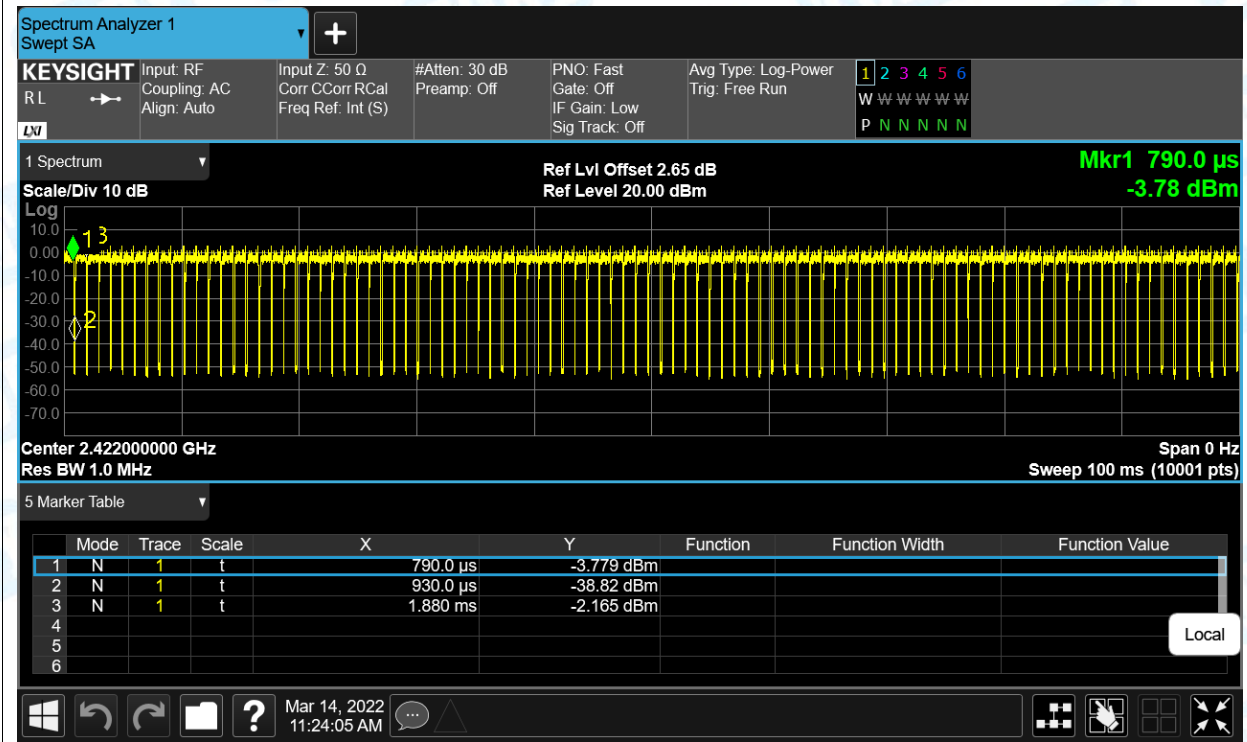
Duty Cycle NVNT n(HT20) 2437MHz Ant1



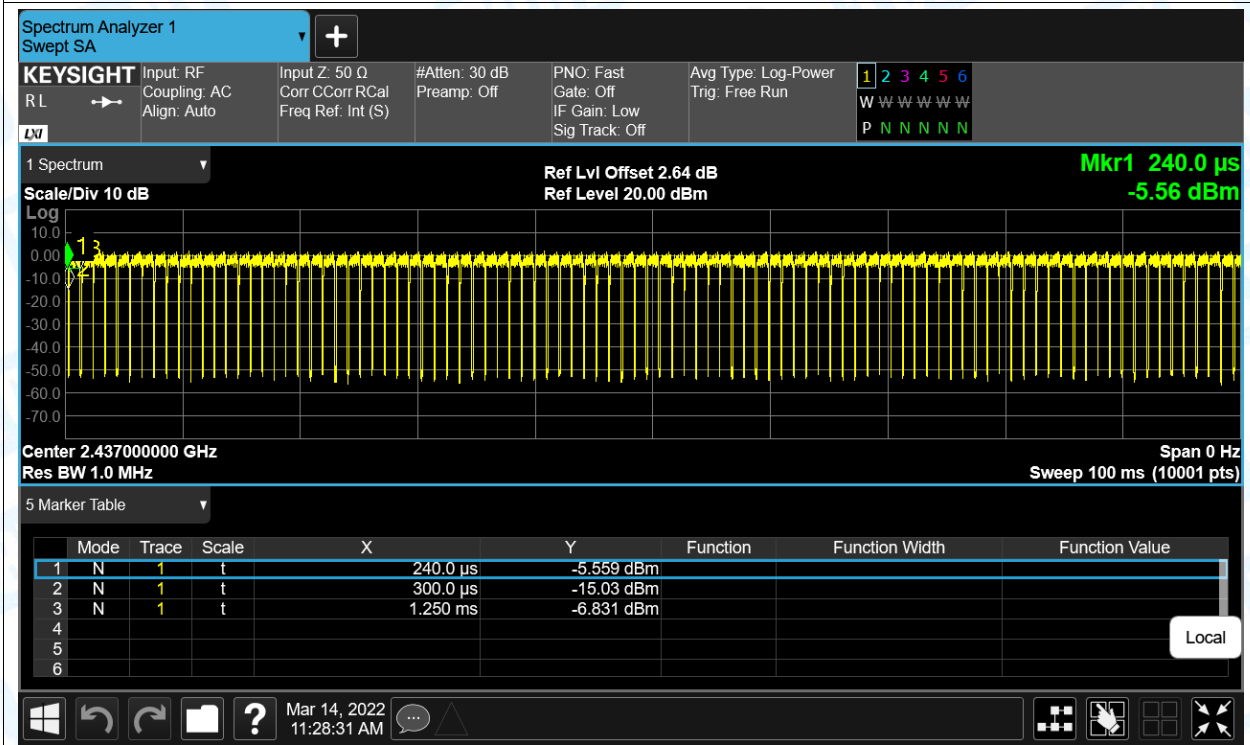
Duty Cycle NVNT n(HT20) 2462MHz Ant1



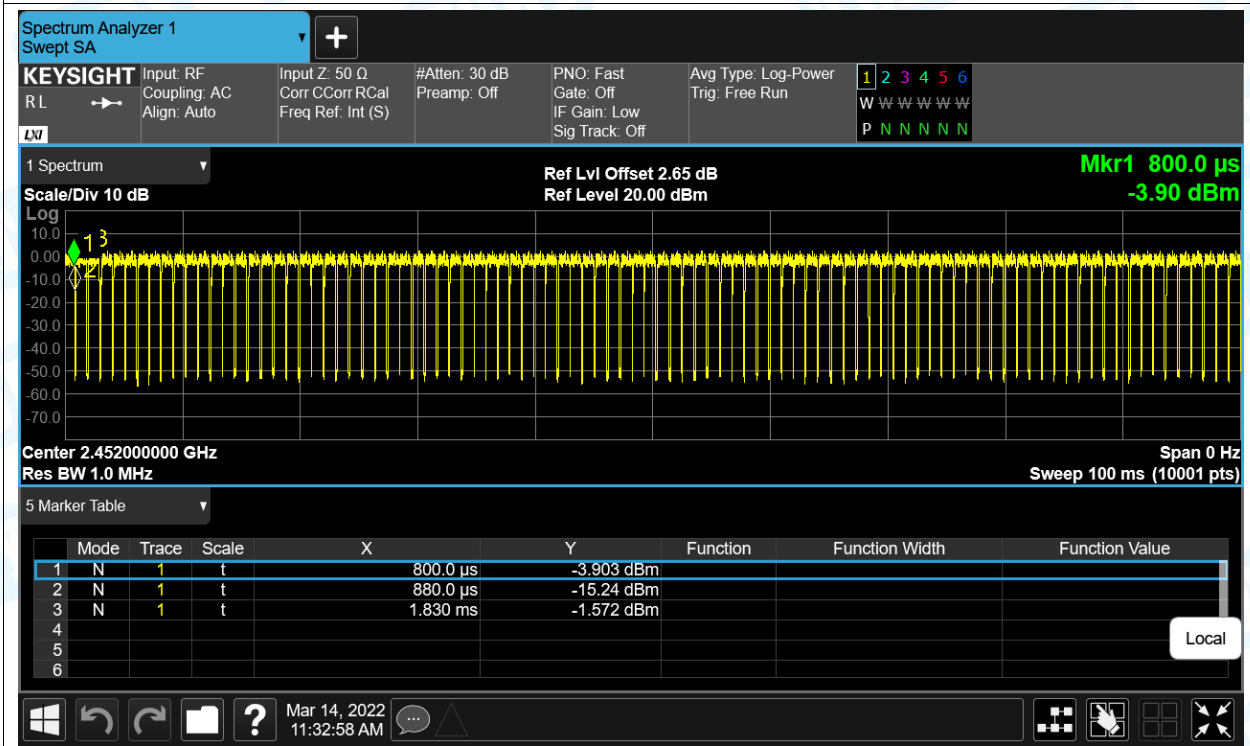
Duty Cycle NVNT n(HT40) 2422MHz Ant1



Duty Cycle NVNT n(HT40) 2437MHz Ant1



Duty Cycle NVNT n(HT40) 2452MHz Ant1

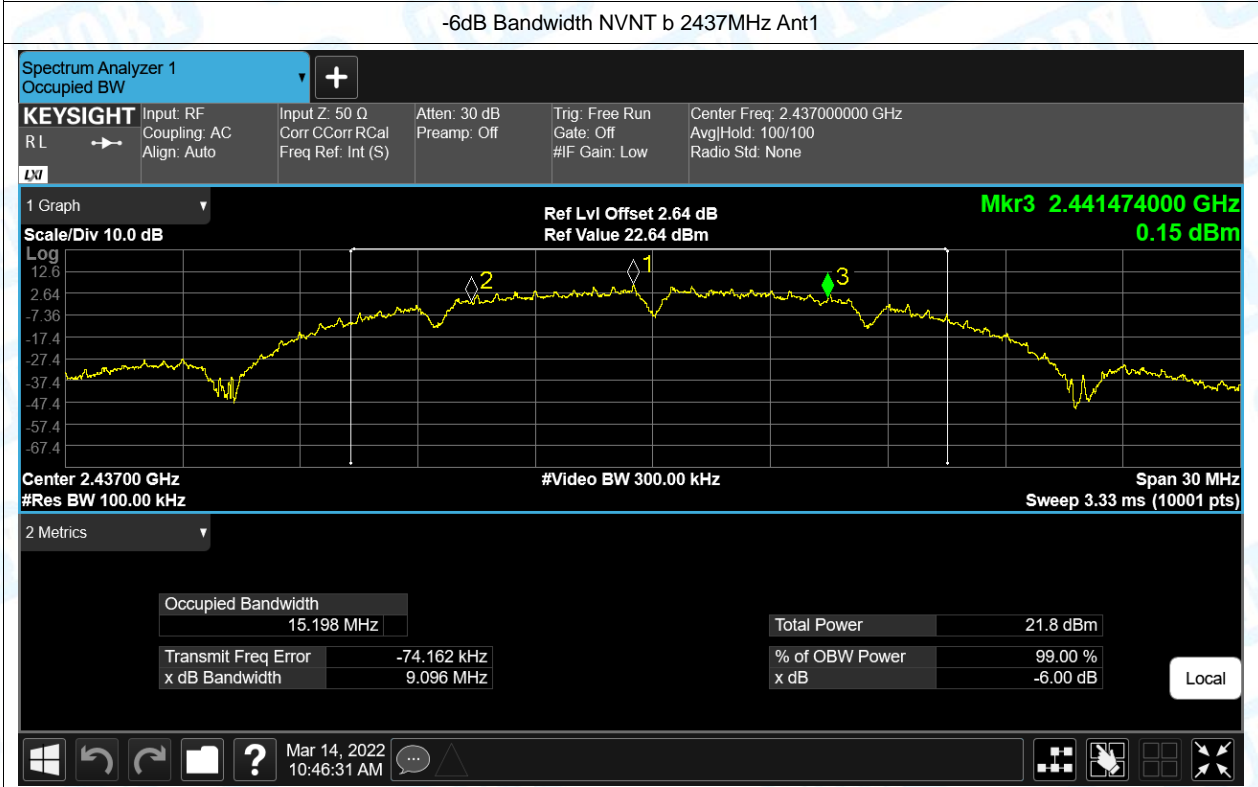
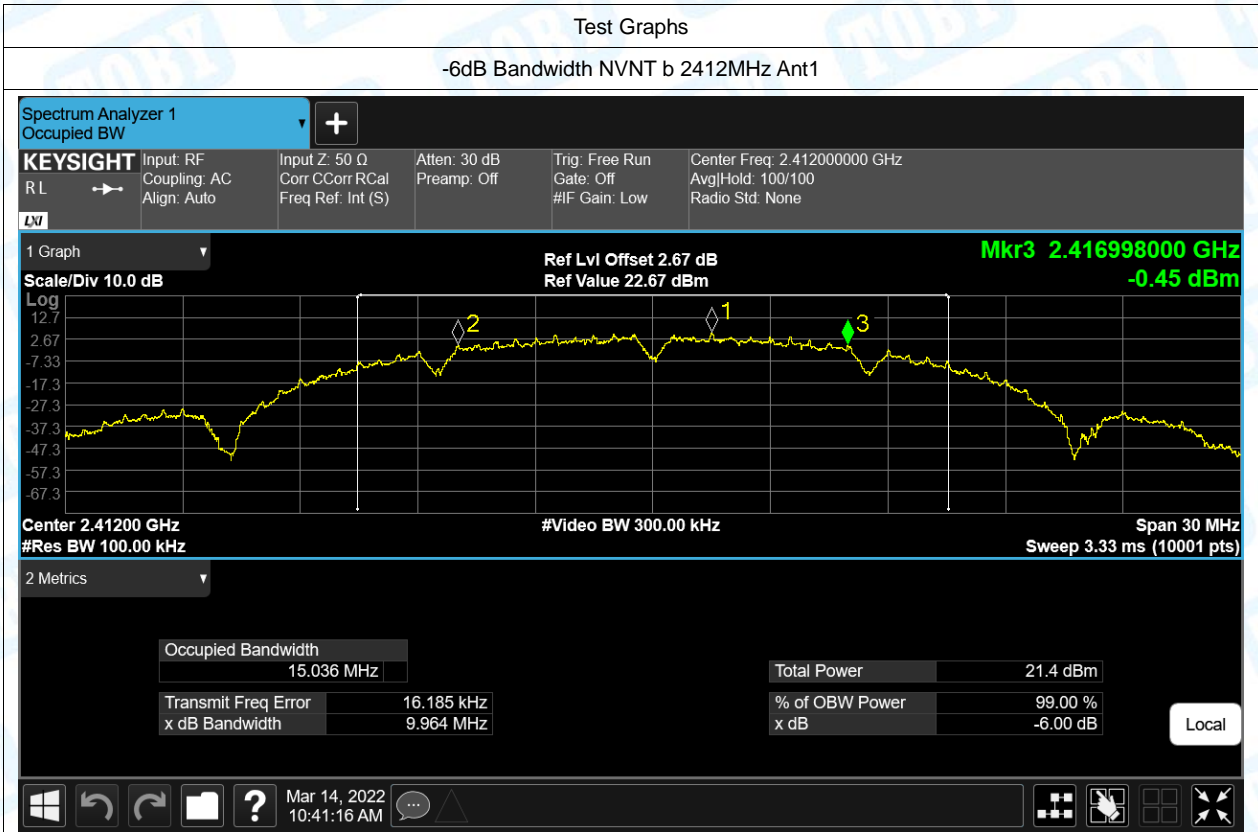


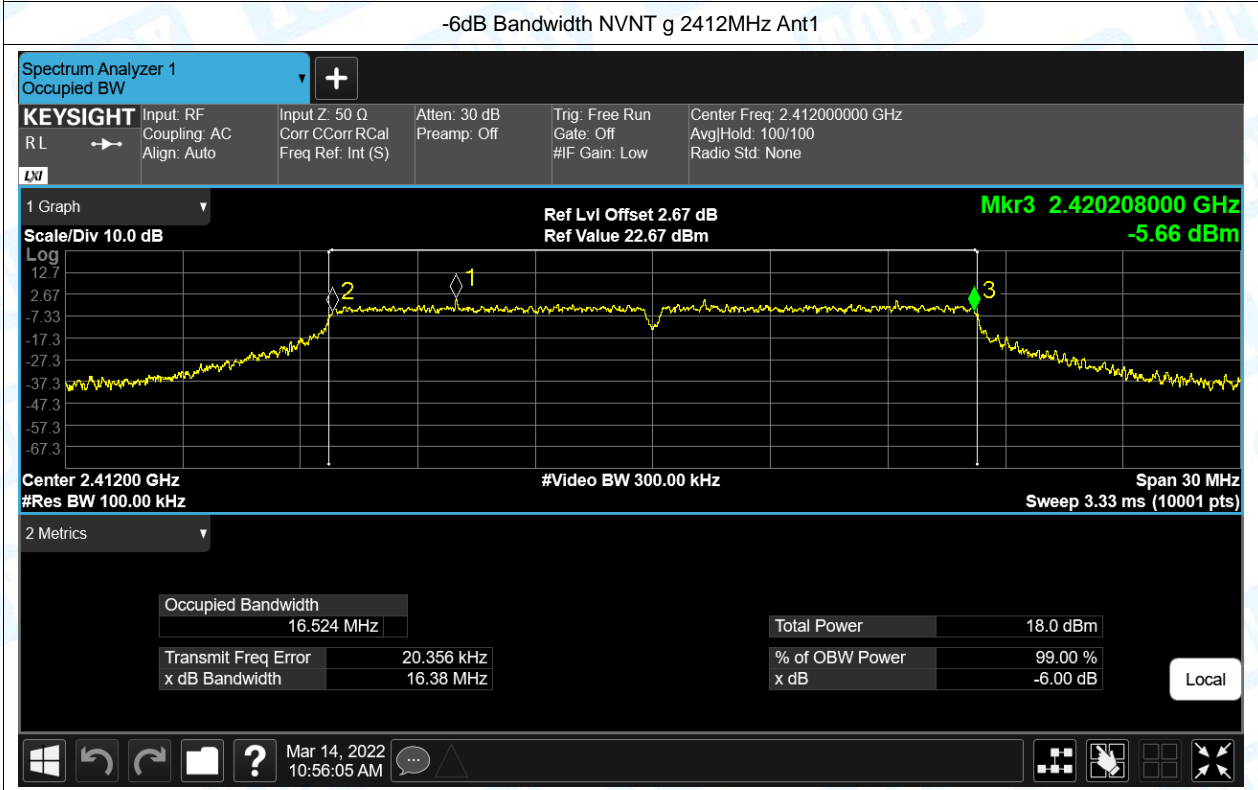
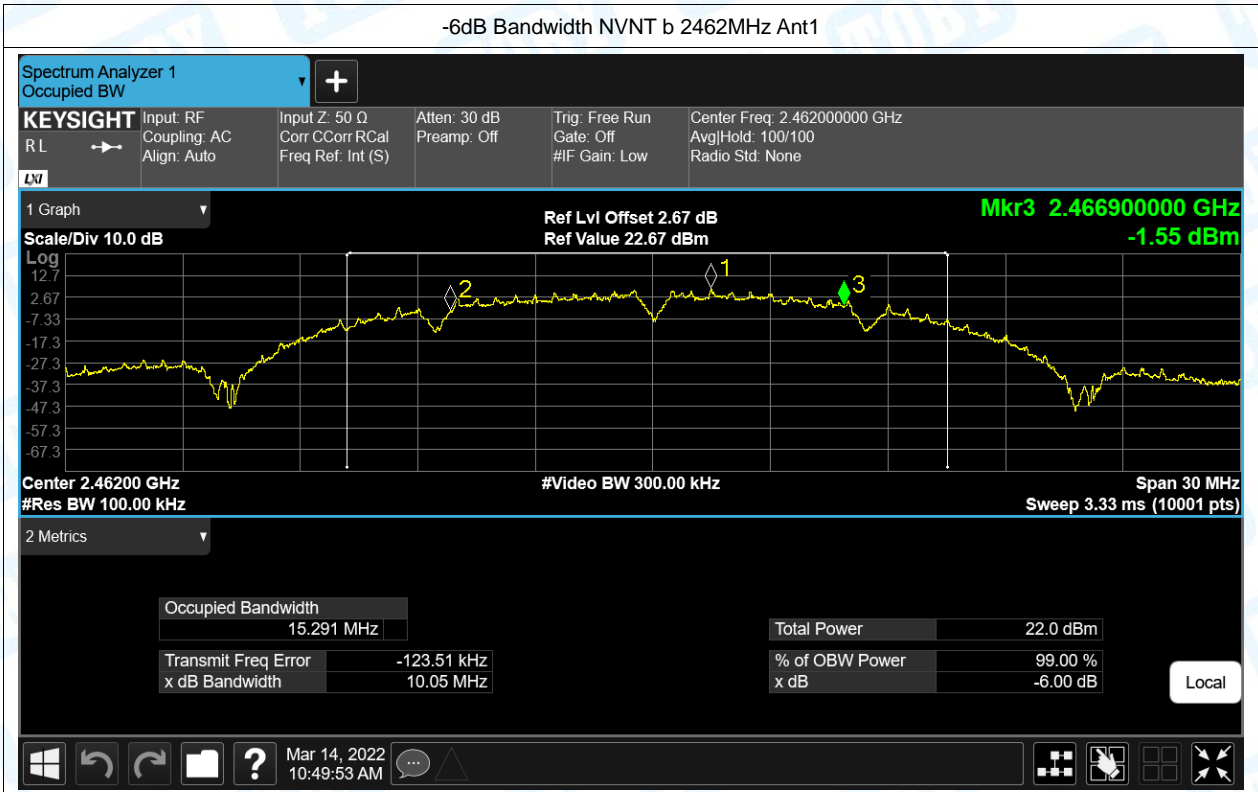
2.Maximum Conducted Output Power

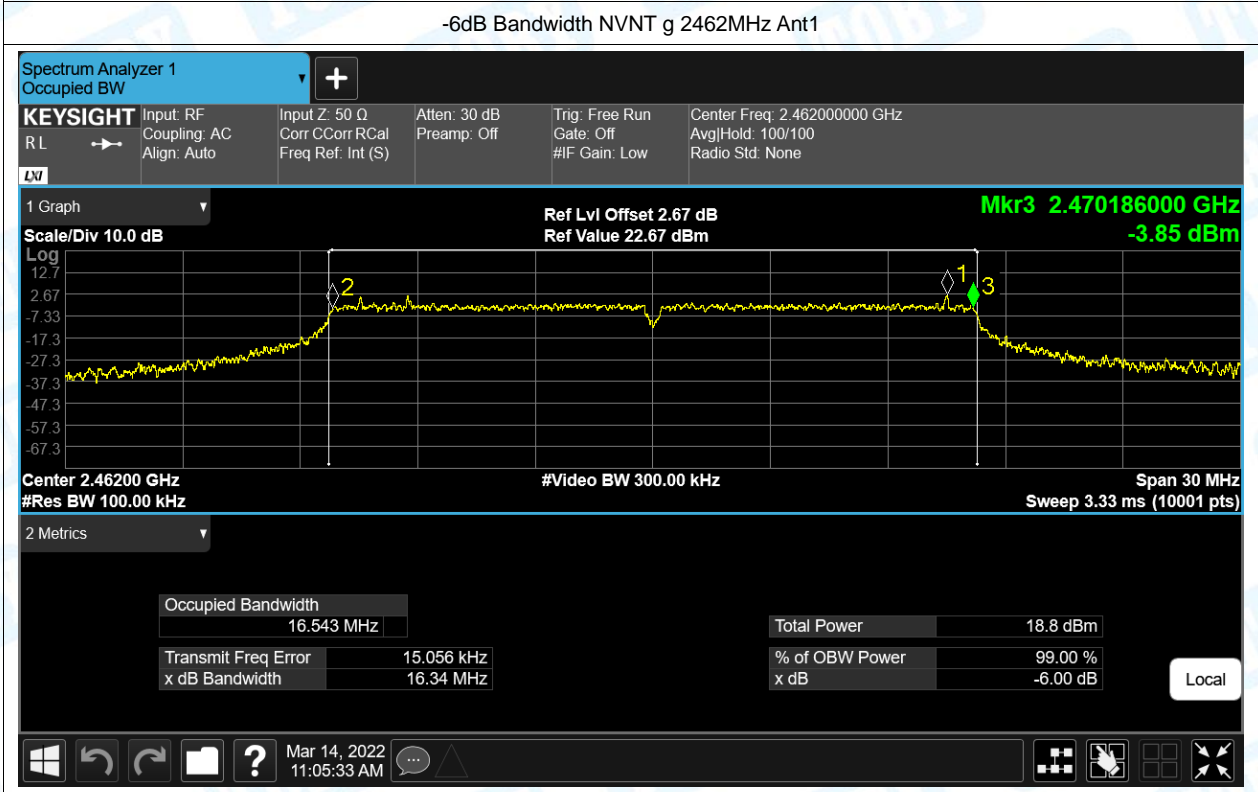
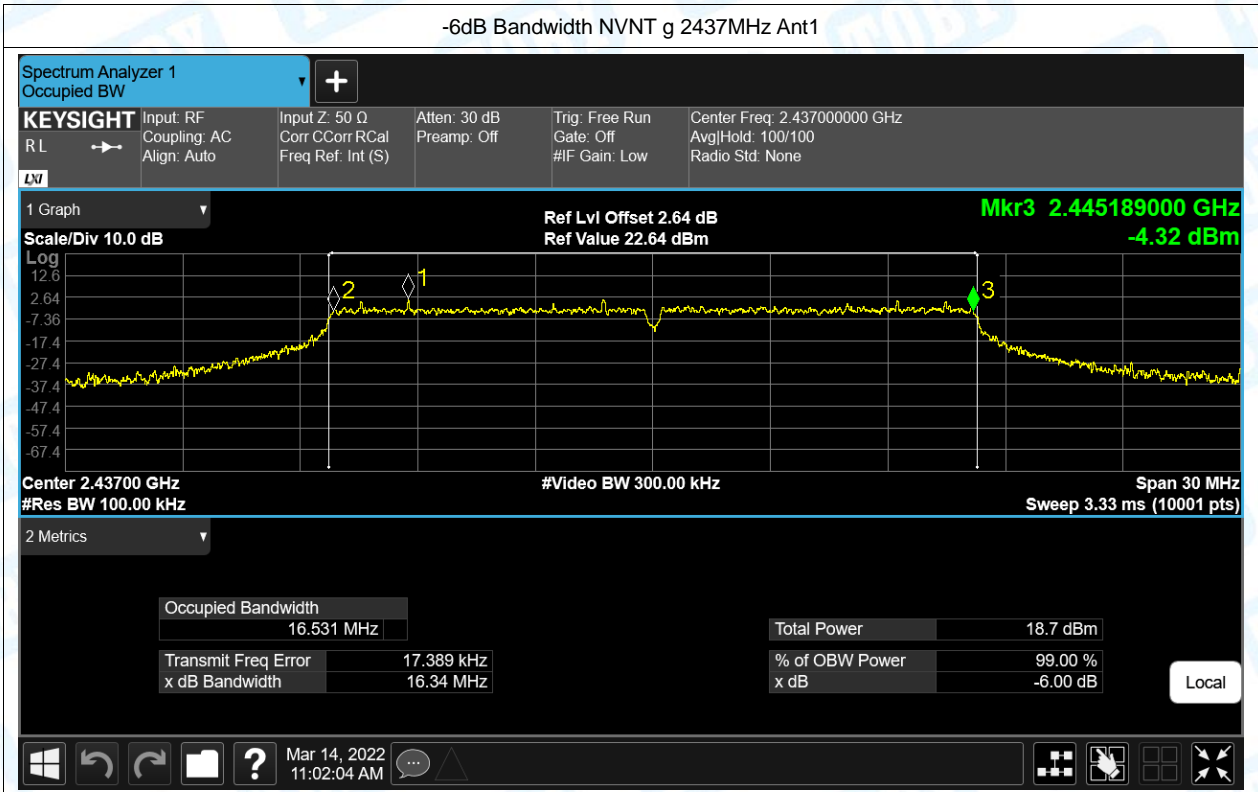
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	16.556	30	Pass
NVNT	b	2437	Ant1	16.892	30	Pass
NVNT	b	2462	Ant1	17.062	30	Pass
NVNT	g	2412	Ant1	16.952	30	Pass
NVNT	g	2437	Ant1	17.585	30	Pass
NVNT	g	2462	Ant1	17.707	30	Pass
NVNT	n(HT20)	2412	Ant1	16.918	30	Pass
NVNT	n(HT20)	2437	Ant1	17.396	30	Pass
NVNT	n(HT20)	2462	Ant1	17.669	30	Pass
NVNT	n(HT40)	2422	Ant1	16.319	30	Pass
NVNT	n(HT40)	2437	Ant1	16.457	30	Pass
NVNT	n(HT40)	2452	Ant1	16.661	30	Pass

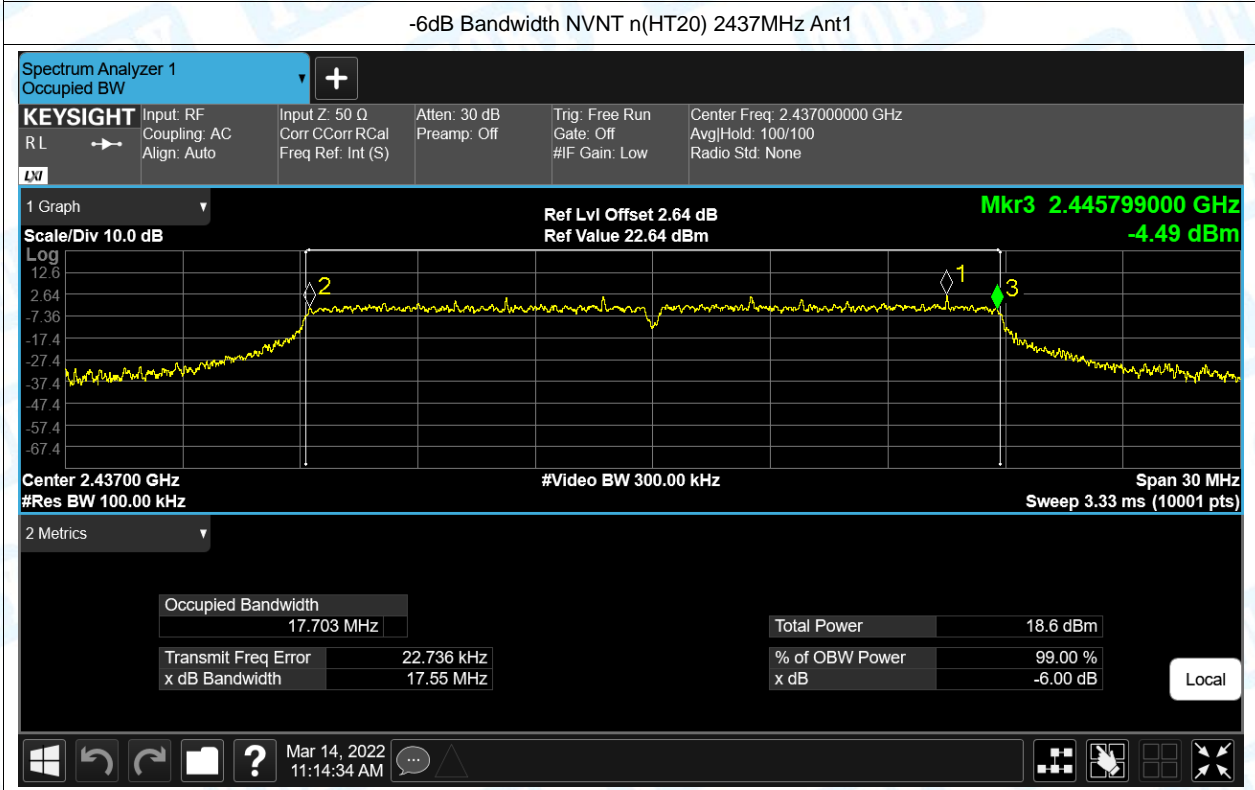
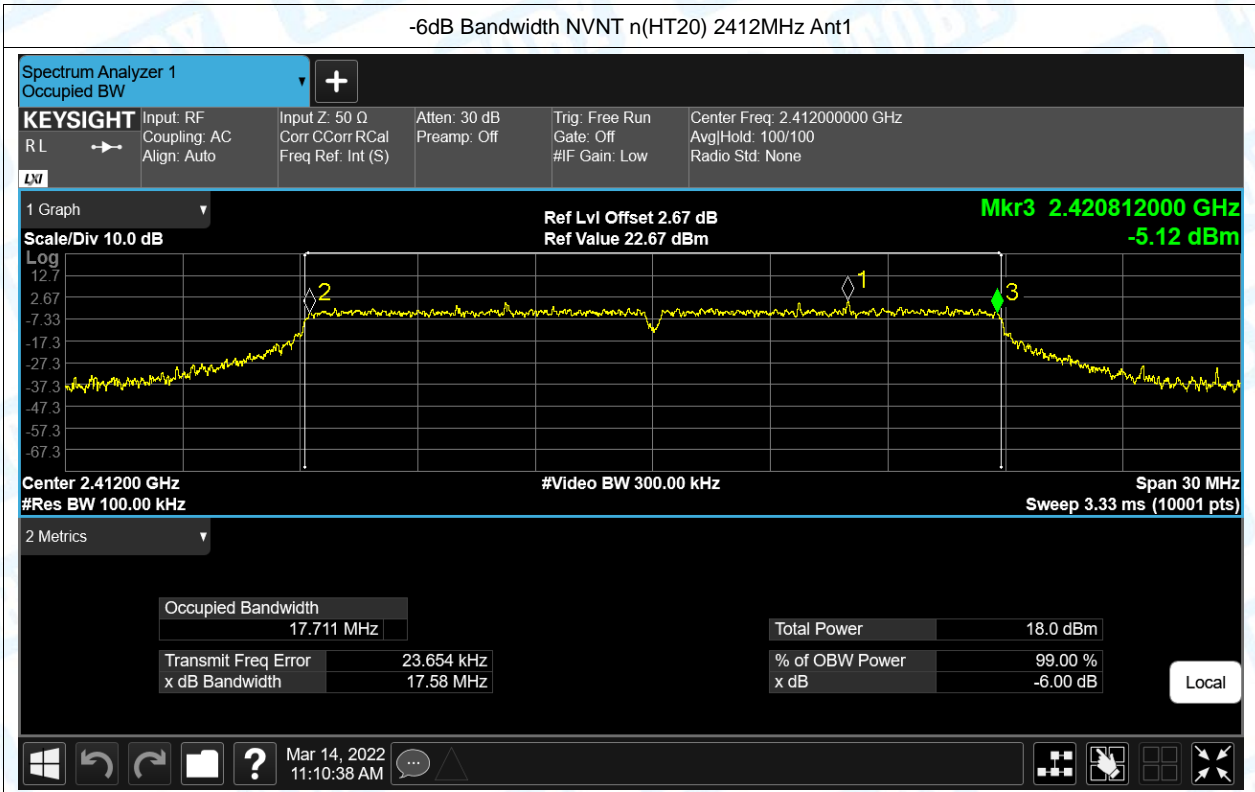
3.-6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	9.96	0.5	Pass
NVNT	b	2437	Ant1	9.1	0.5	Pass
NVNT	b	2462	Ant1	10.05	0.5	Pass
NVNT	g	2412	Ant1	16.38	0.5	Pass
NVNT	g	2437	Ant1	16.34	0.5	Pass
NVNT	g	2462	Ant1	16.34	0.5	Pass
NVNT	n(HT20)	2412	Ant1	17.58	0.5	Pass
NVNT	n(HT20)	2437	Ant1	17.55	0.5	Pass
NVNT	n(HT20)	2462	Ant1	17.57	0.5	Pass
NVNT	n(HT40)	2422	Ant1	35.31	0.5	Pass
NVNT	n(HT40)	2437	Ant1	35.67	0.5	Pass
NVNT	n(HT40)	2452	Ant1	35.67	0.5	Pass

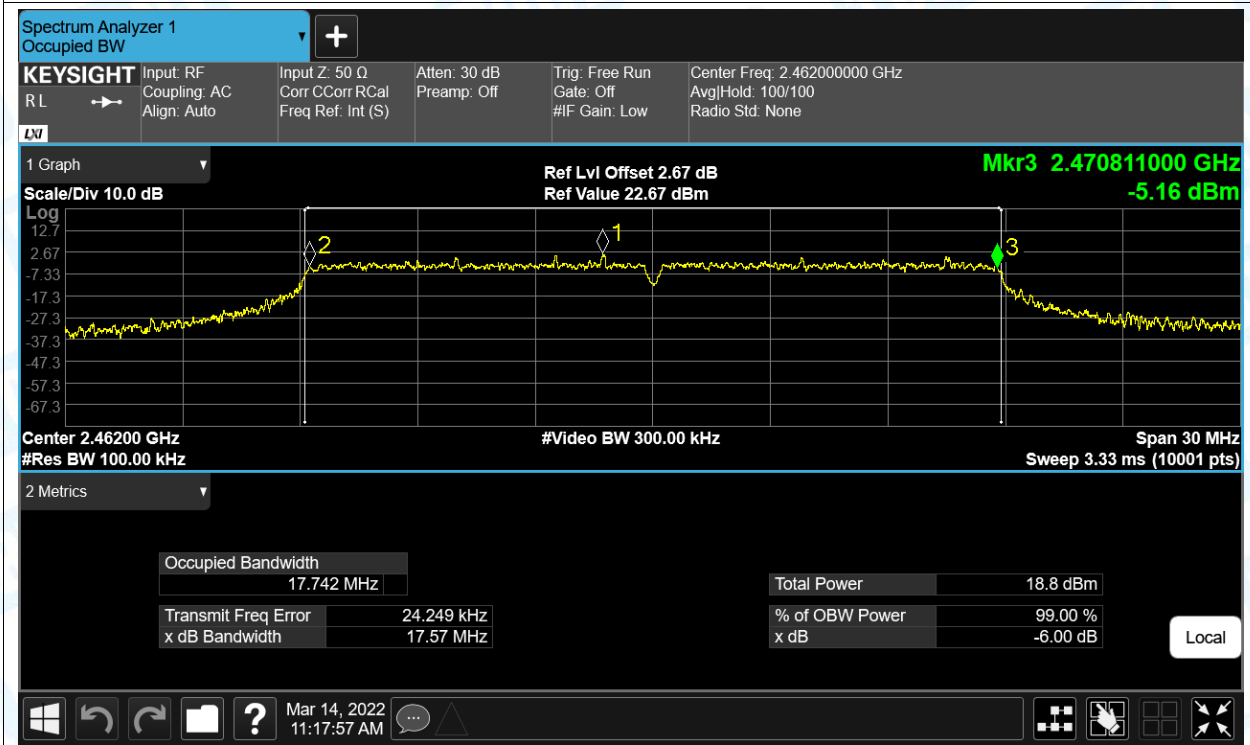




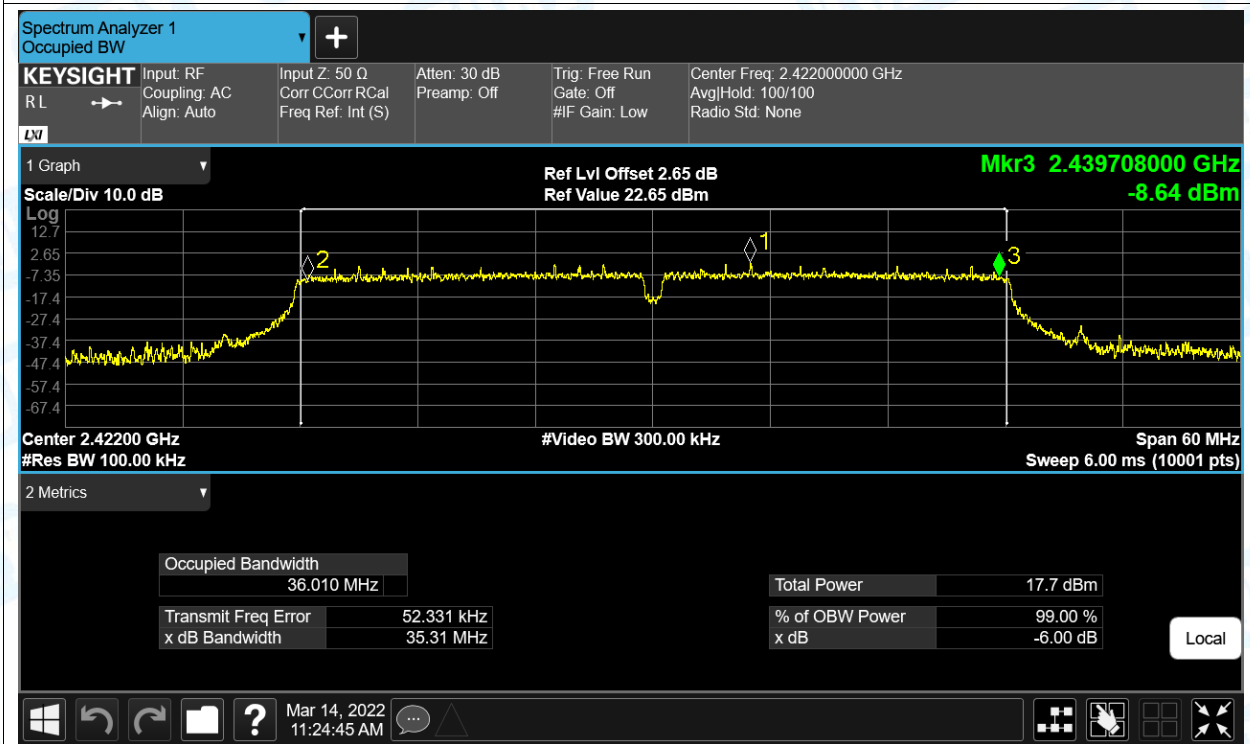


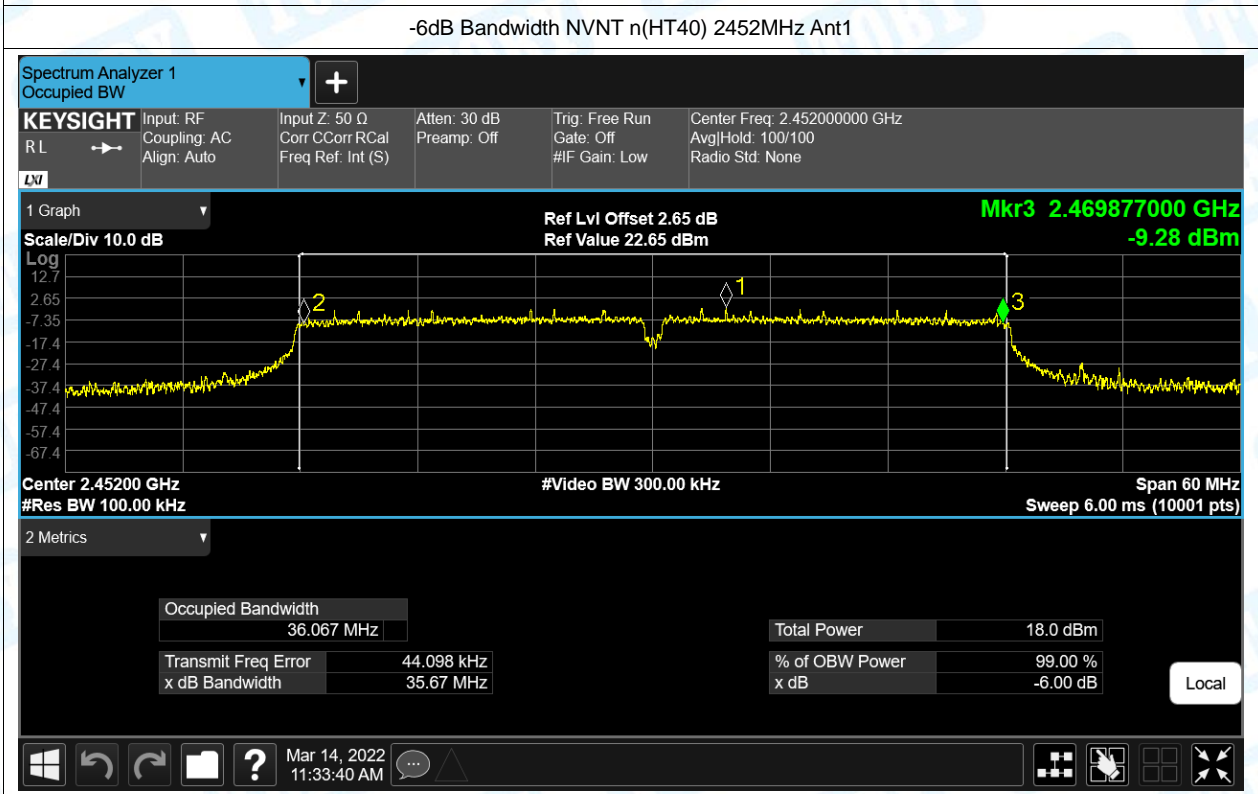
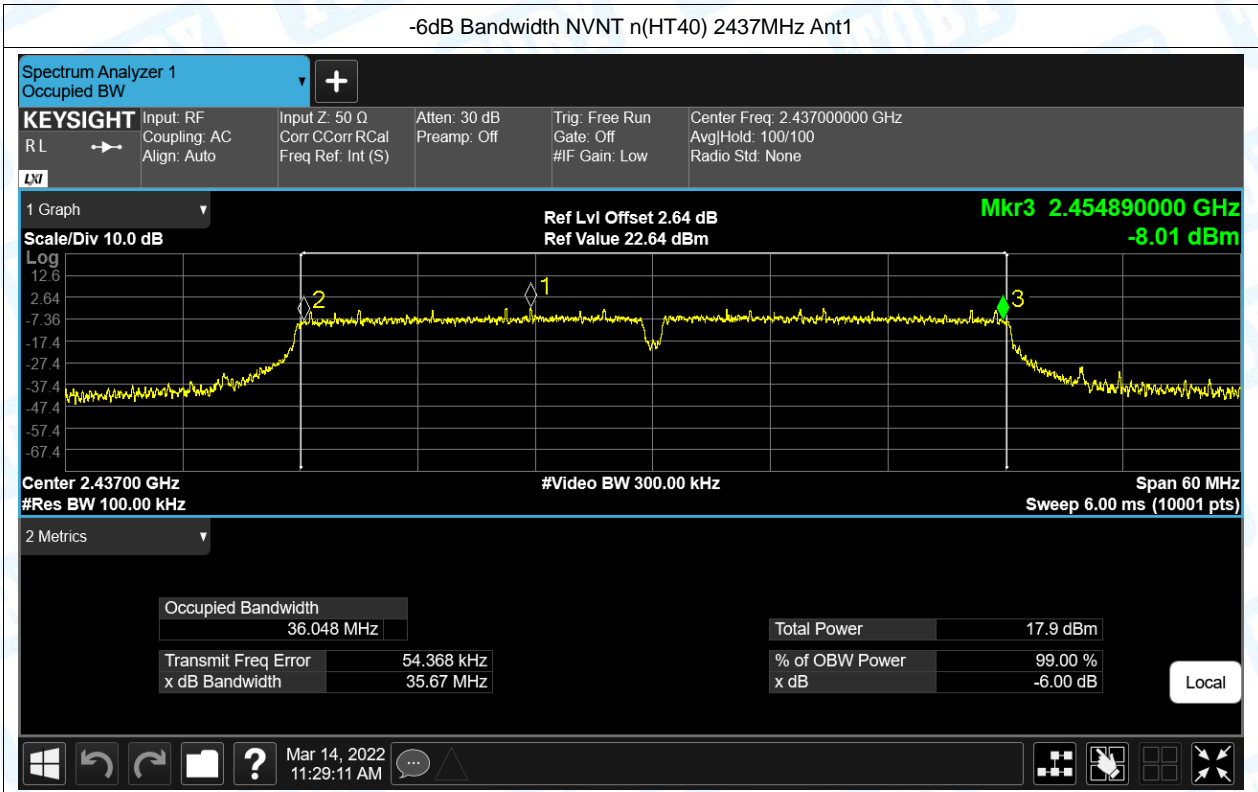


-6dB Bandwidth NVNT n(HT20) 2462MHz Ant1



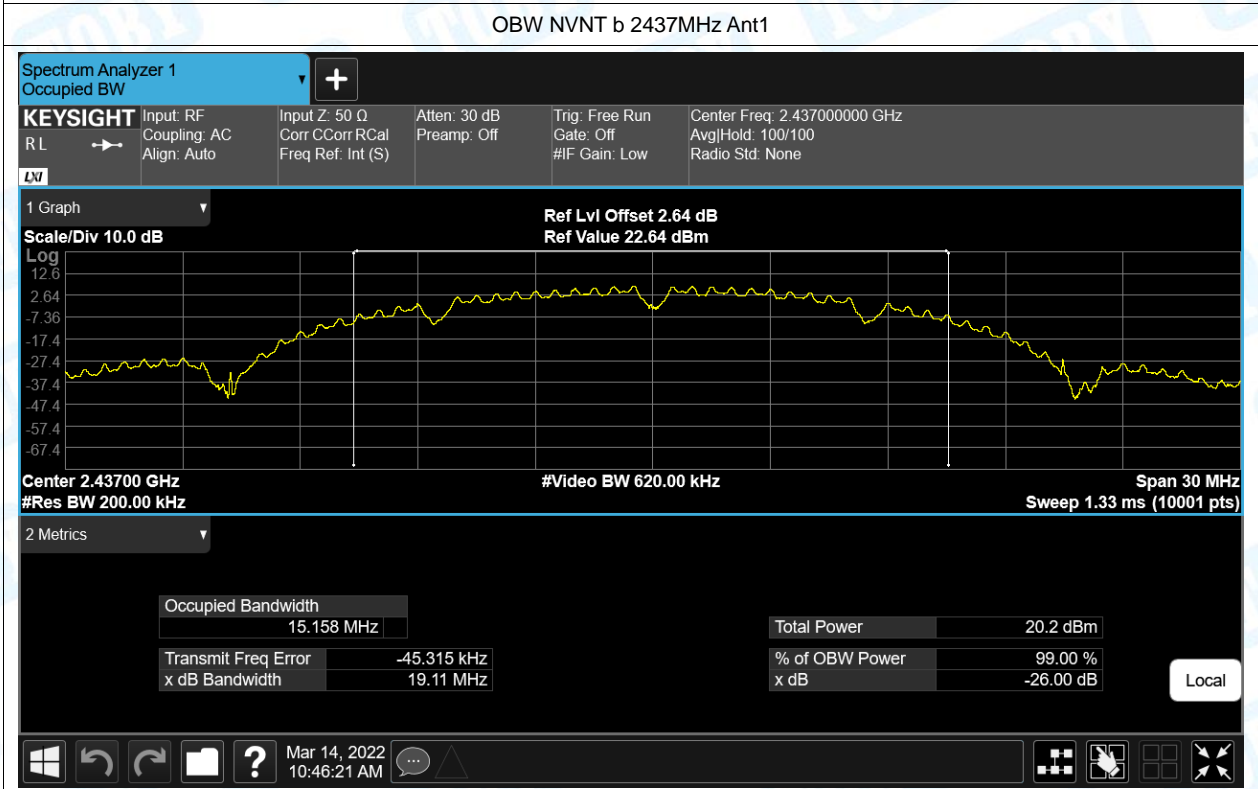
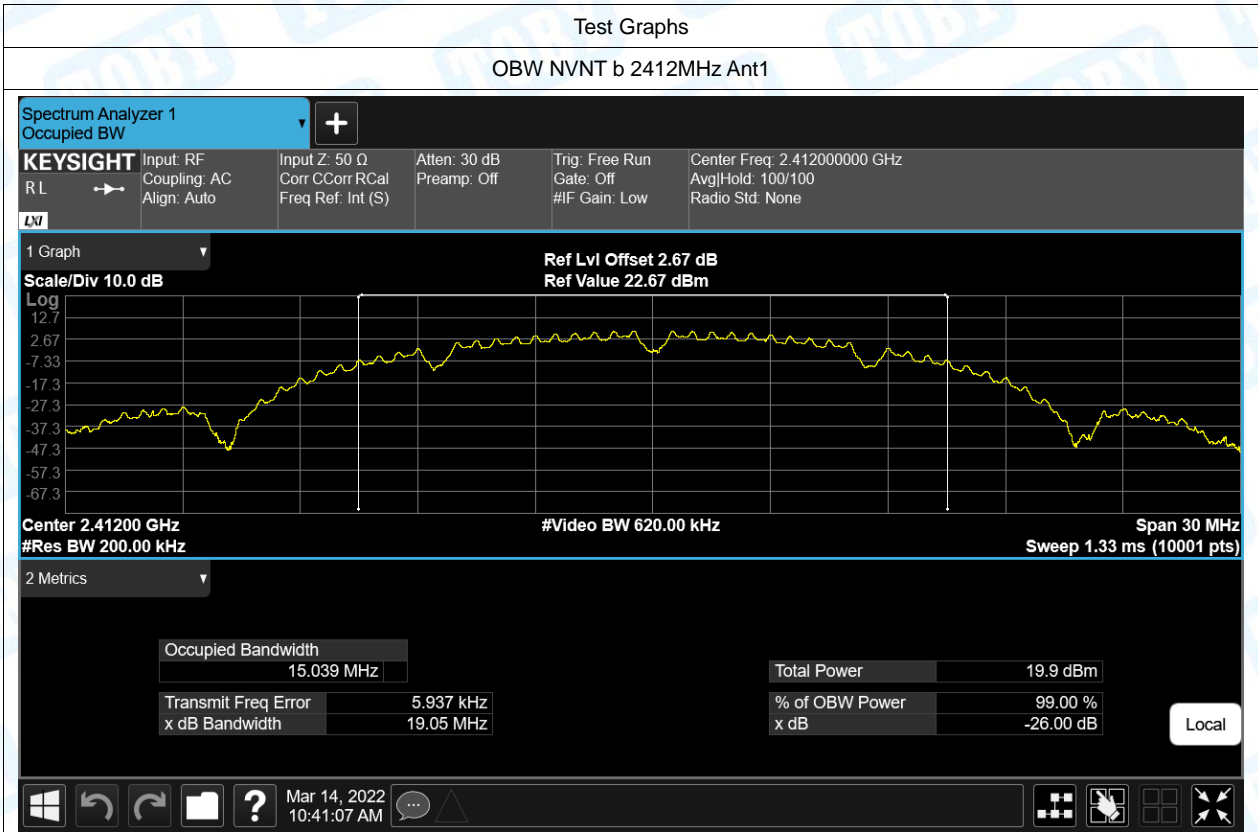
-6dB Bandwidth NVNT n(HT40) 2422MHz Ant1

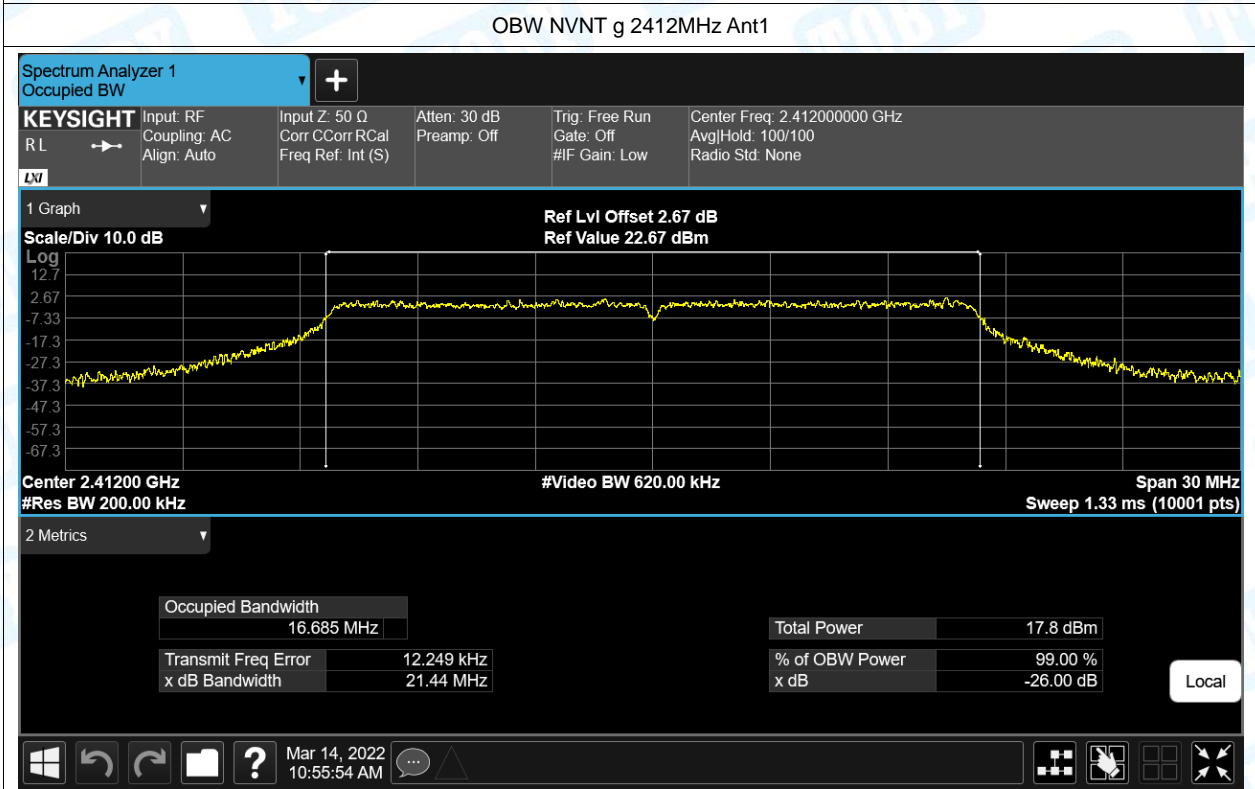
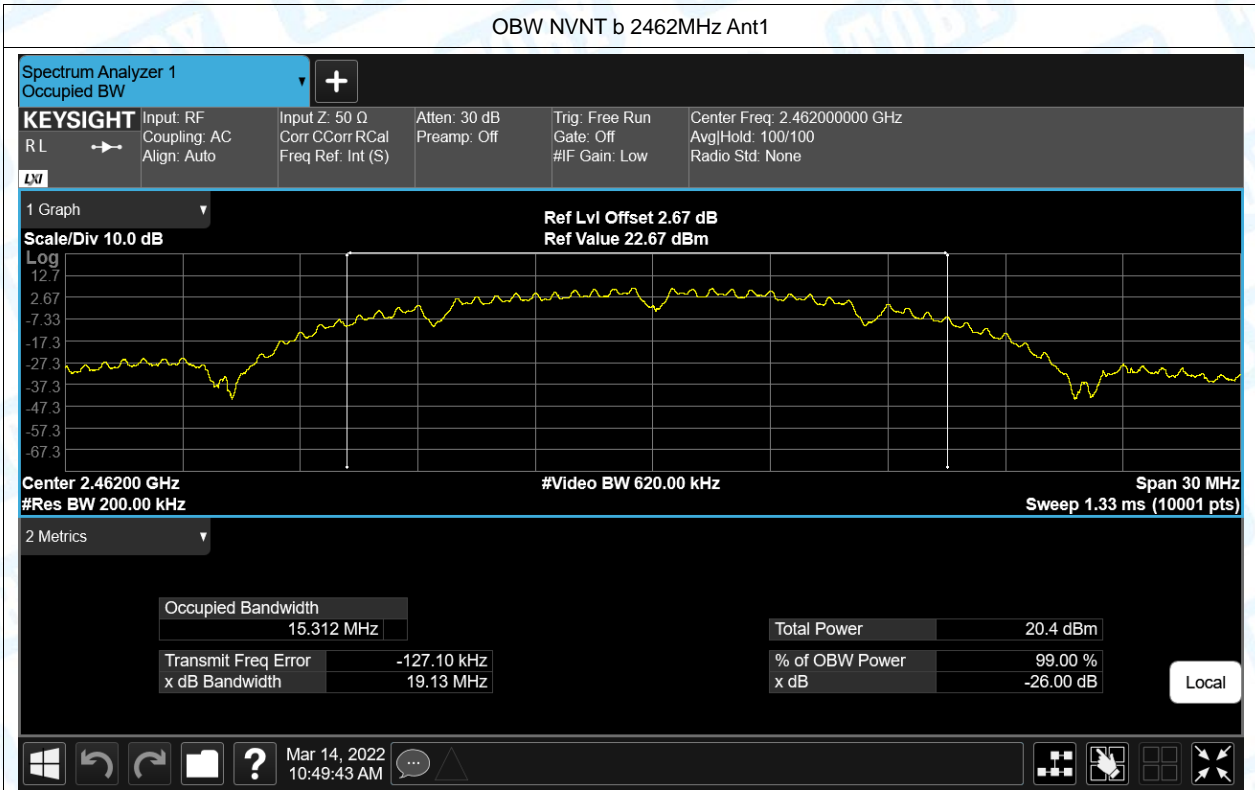


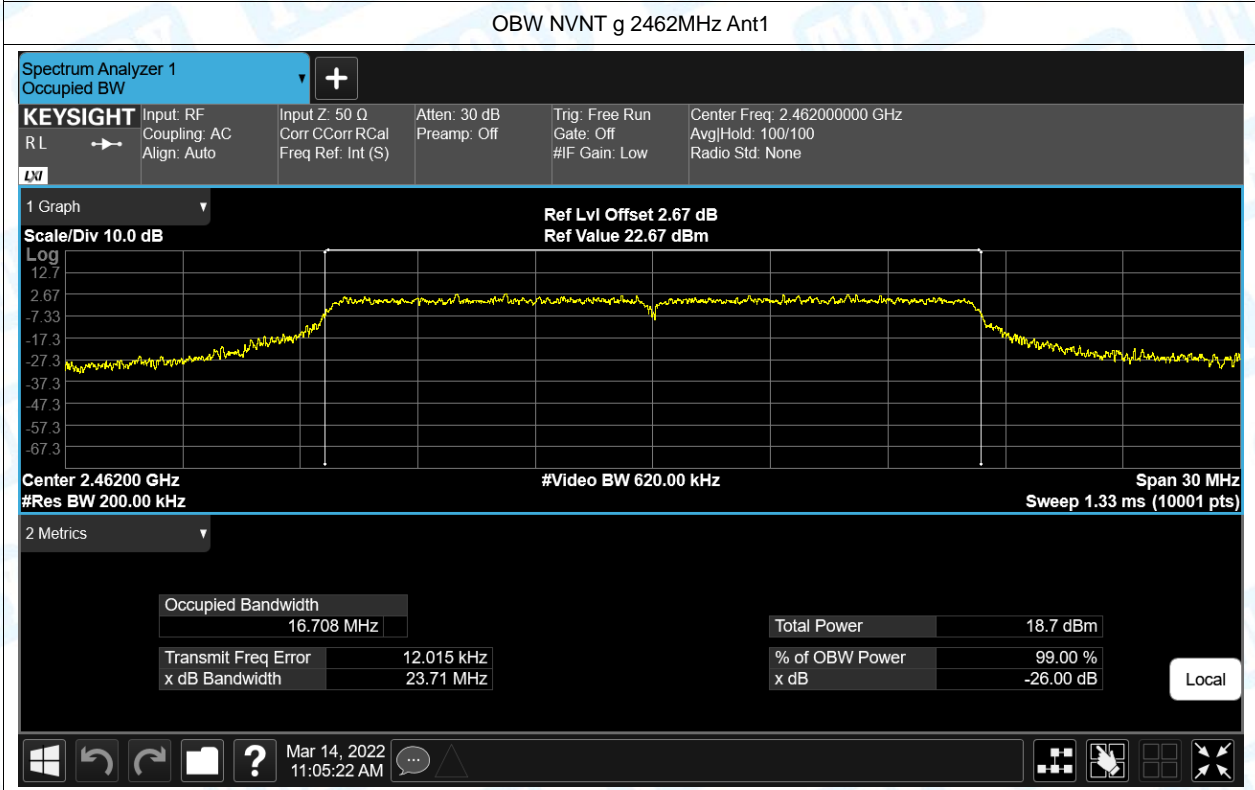
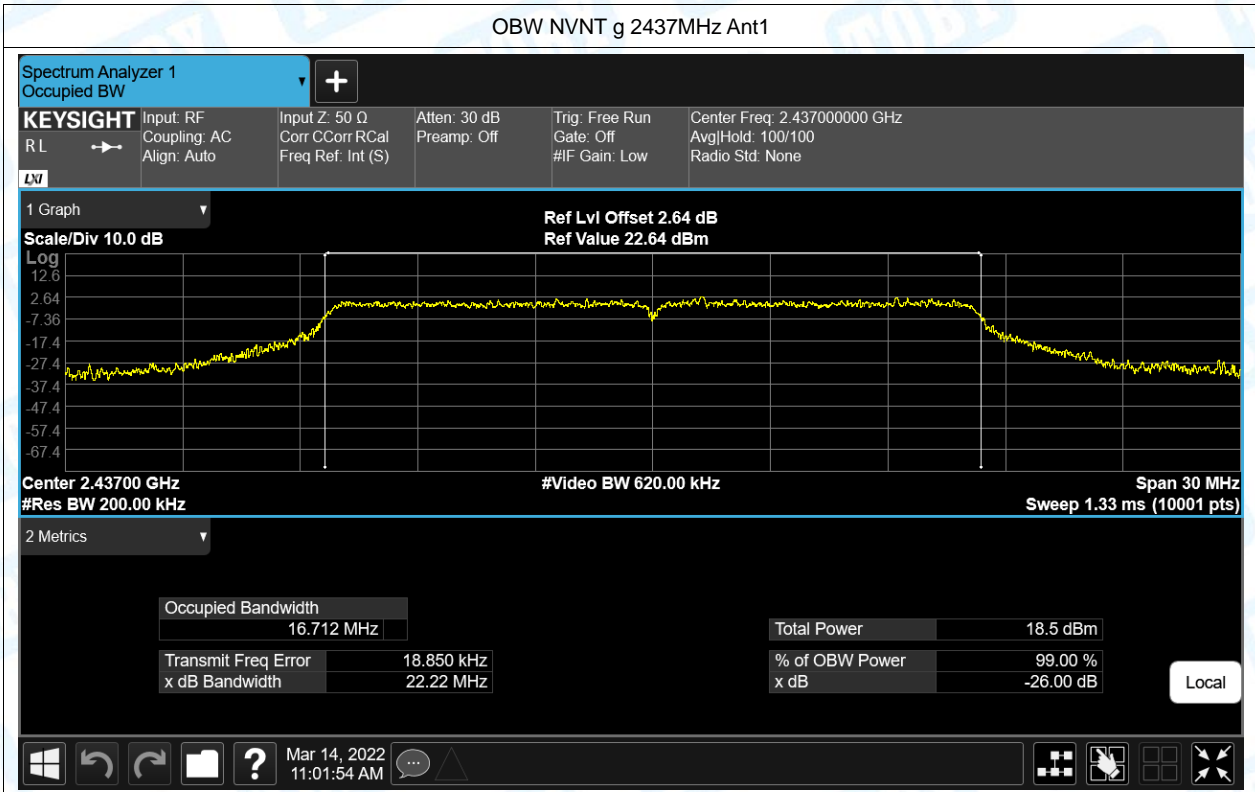


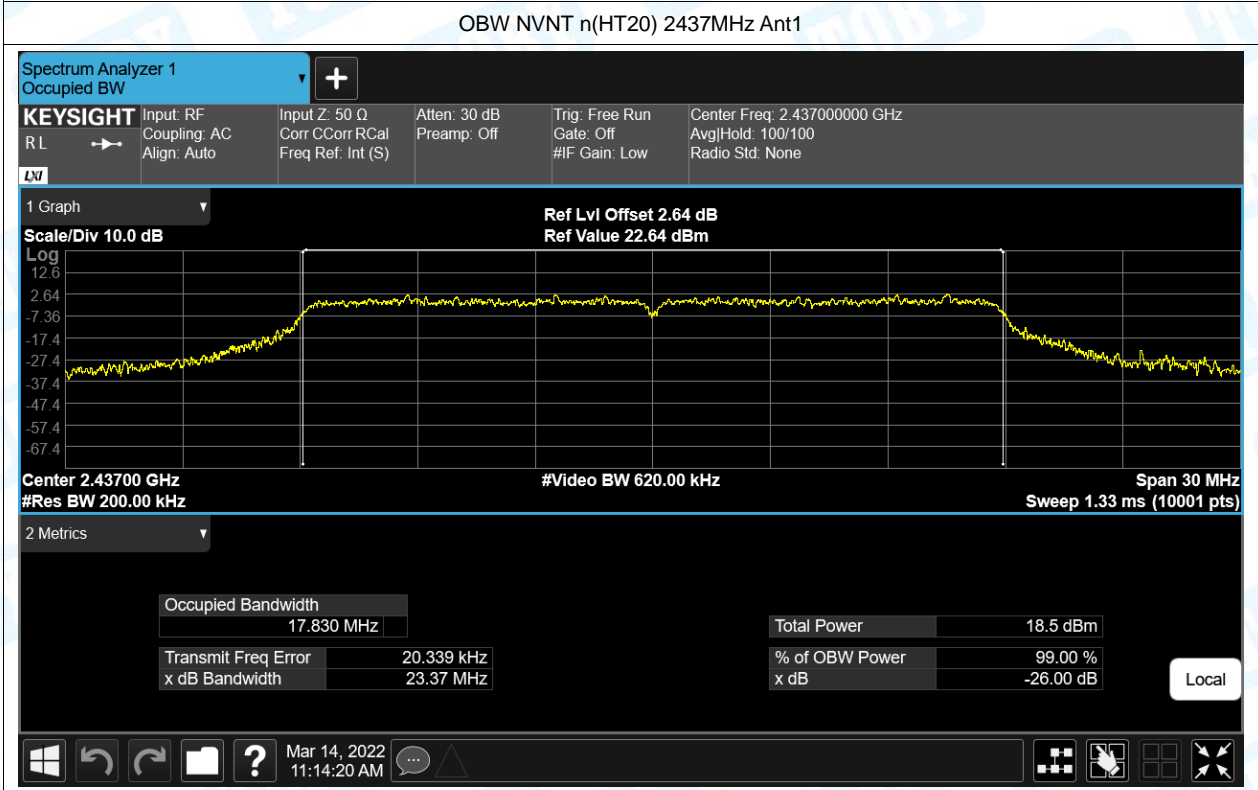
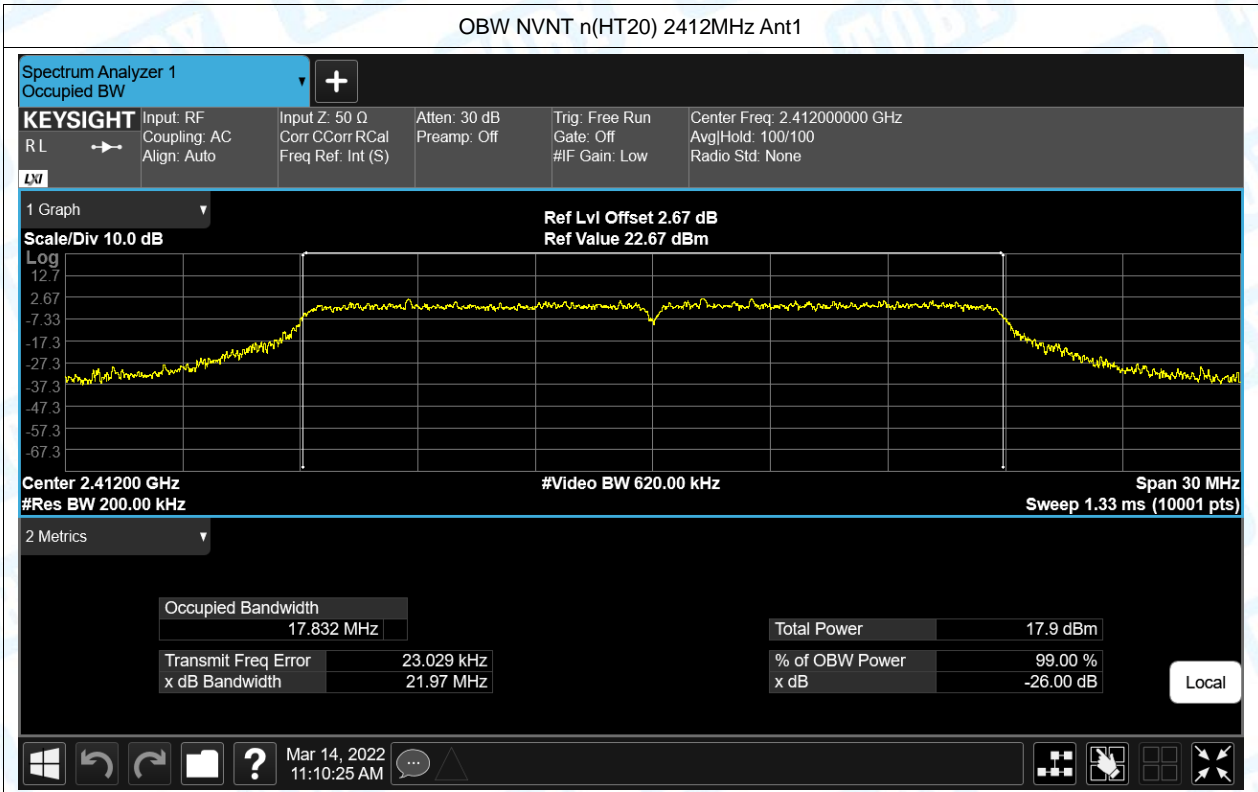
4.Occupied Channel Bandwidth

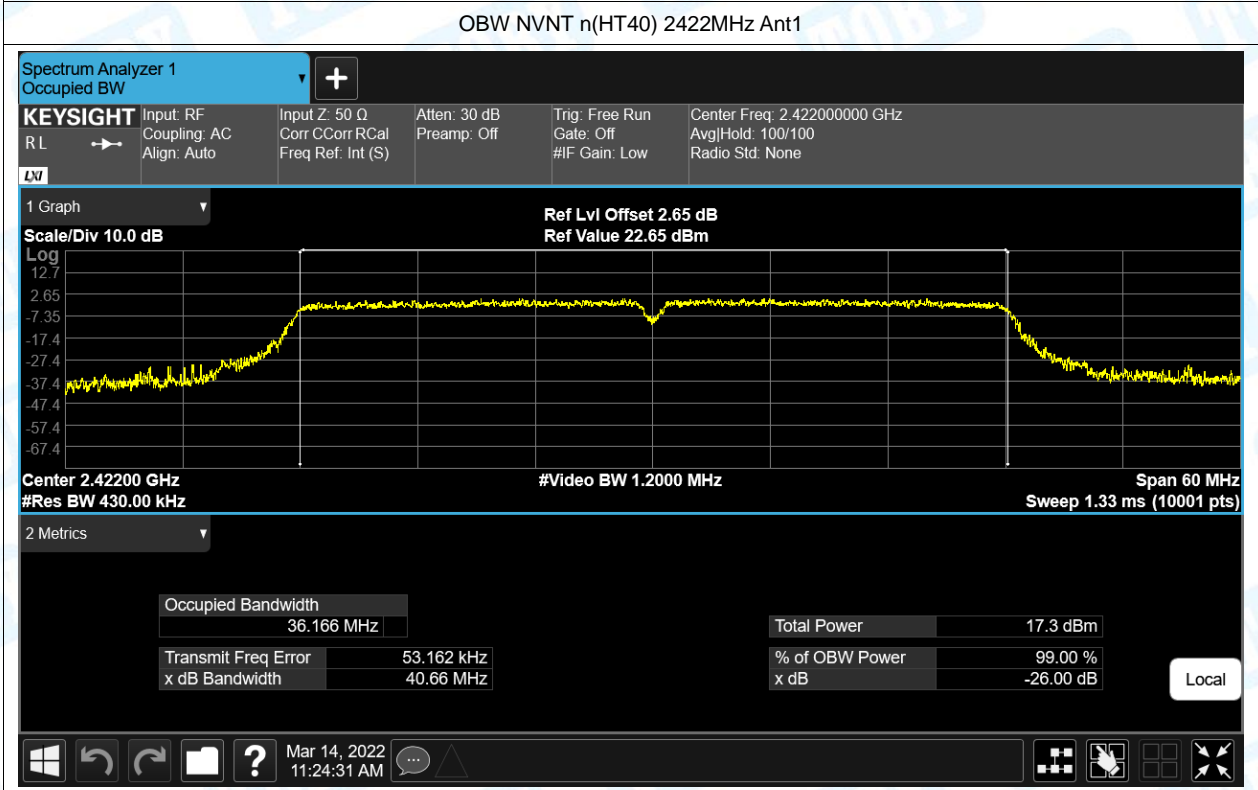
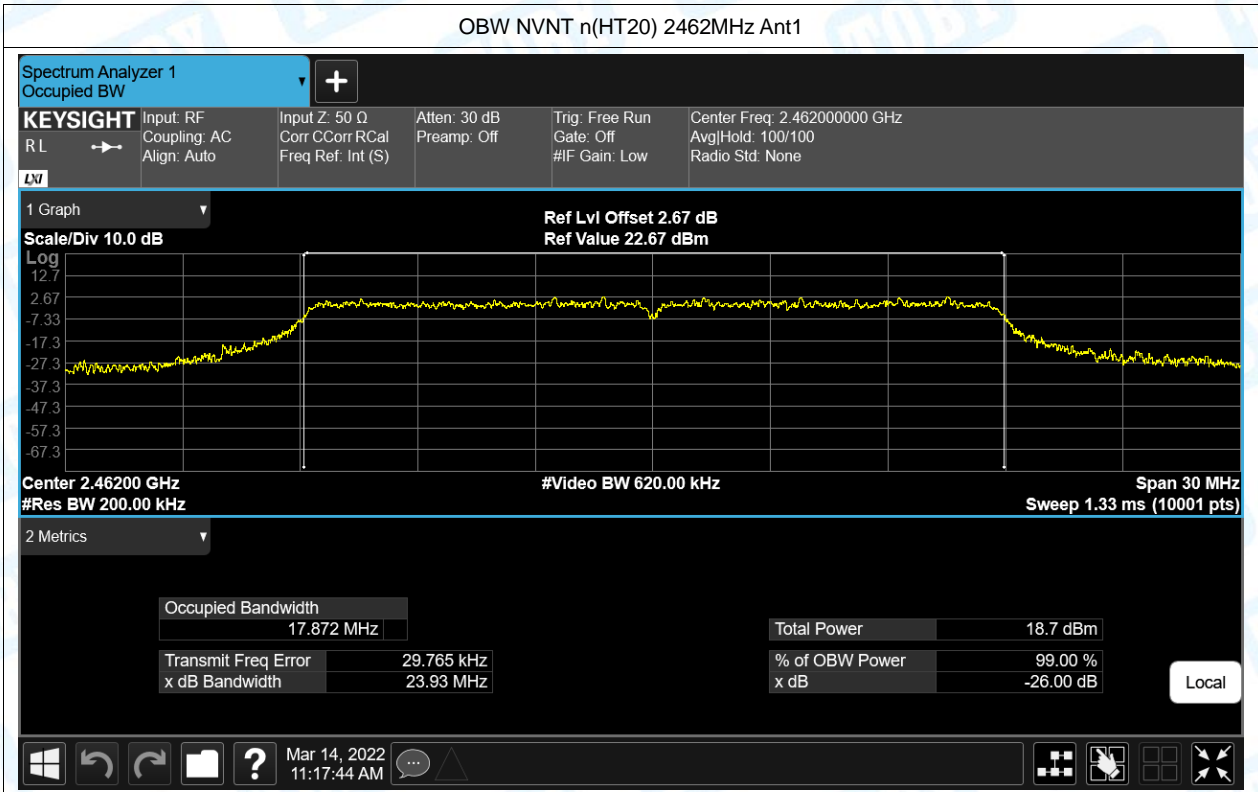
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	b	2412	Ant1	15.039
NVNT	b	2437	Ant1	15.158
NVNT	b	2462	Ant1	15.312
NVNT	g	2412	Ant1	16.685
NVNT	g	2437	Ant1	16.712
NVNT	g	2462	Ant1	16.708
NVNT	n(HT20)	2412	Ant1	17.832
NVNT	n(HT20)	2437	Ant1	17.83
NVNT	n(HT20)	2462	Ant1	17.872
NVNT	n(HT40)	2422	Ant1	36.166
NVNT	n(HT40)	2437	Ant1	36.2
NVNT	n(HT40)	2452	Ant1	36.205

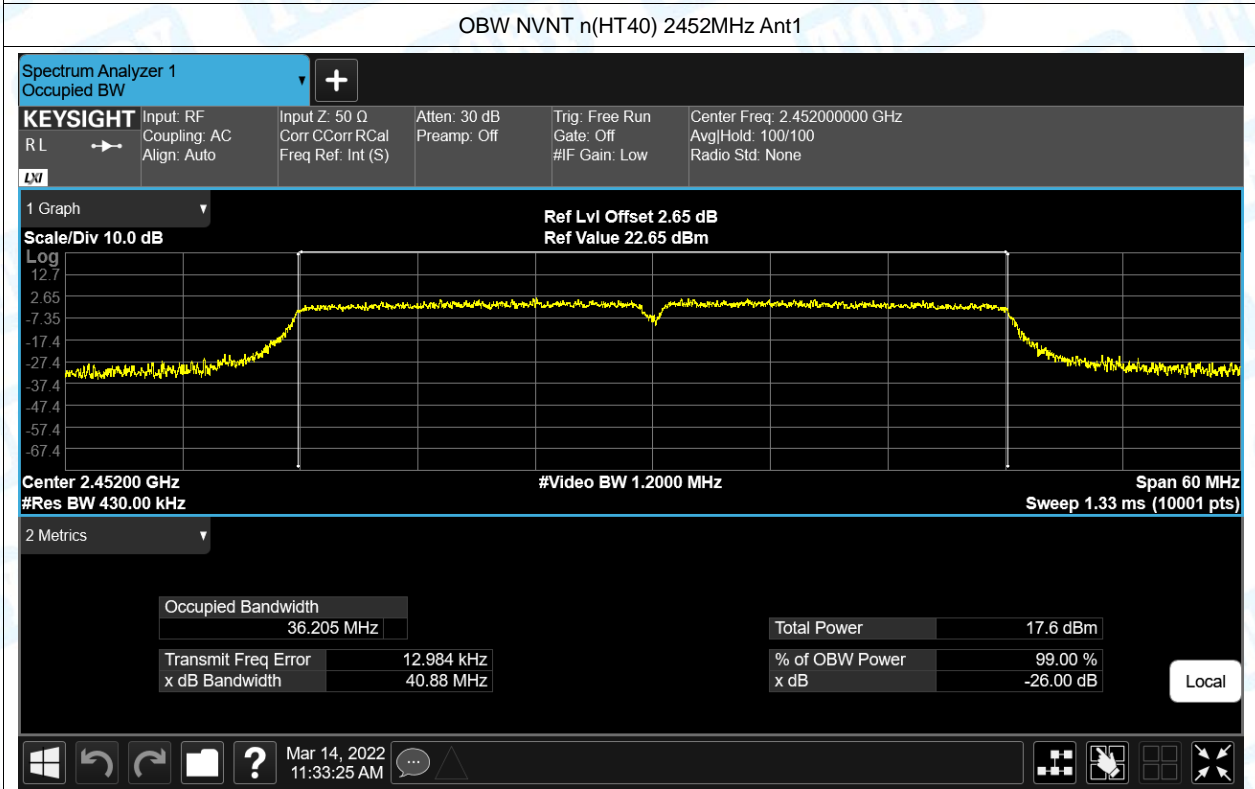
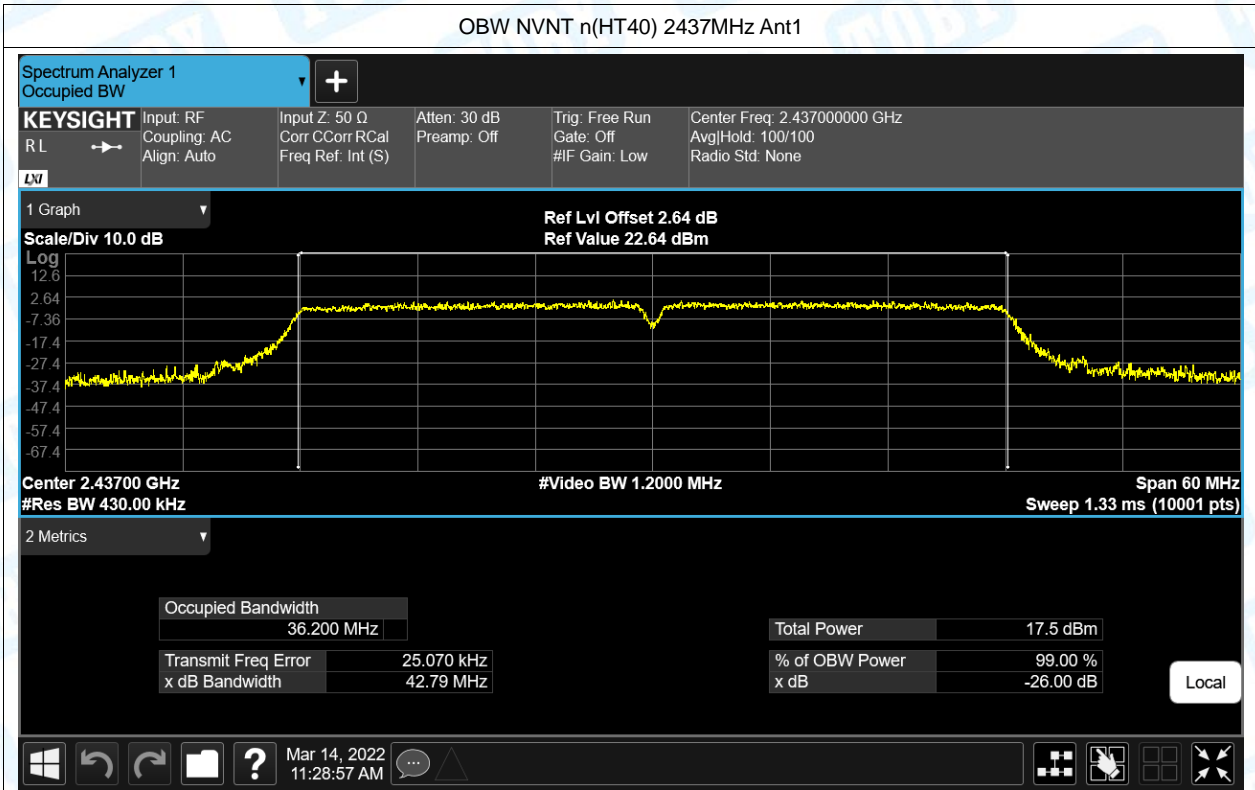










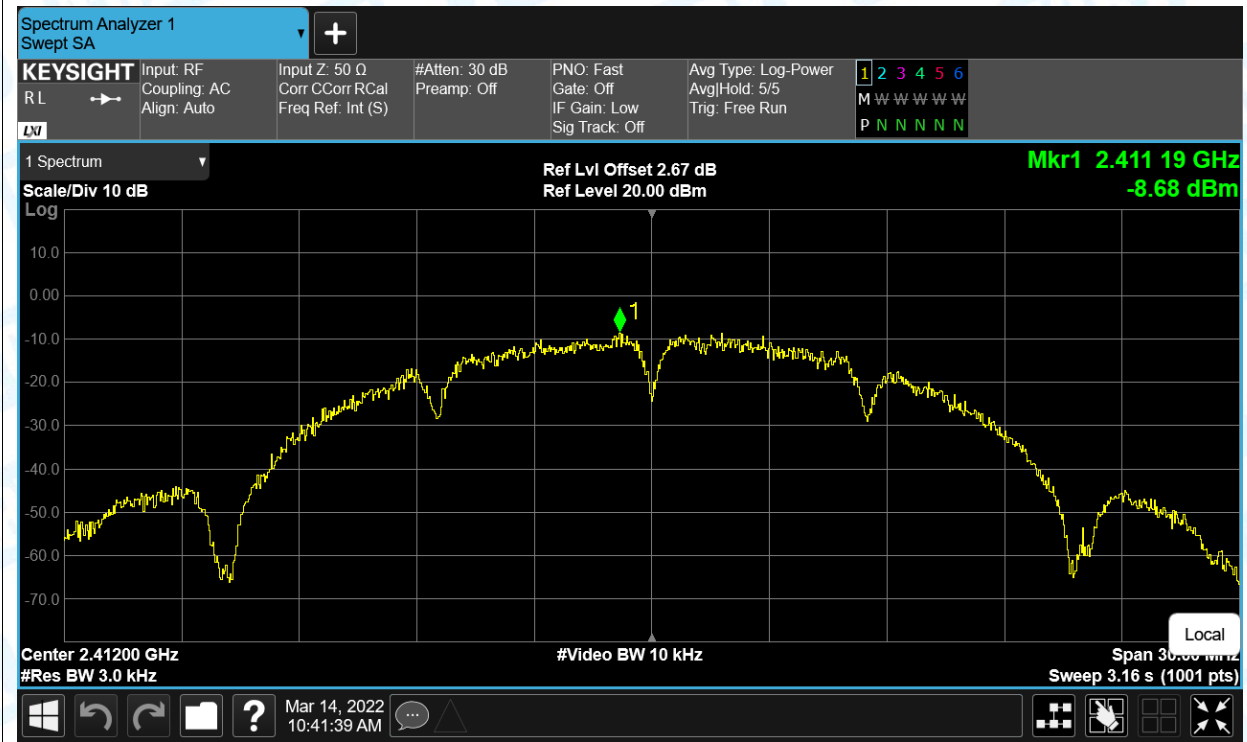


5. Maximum Power Spectral Density Level

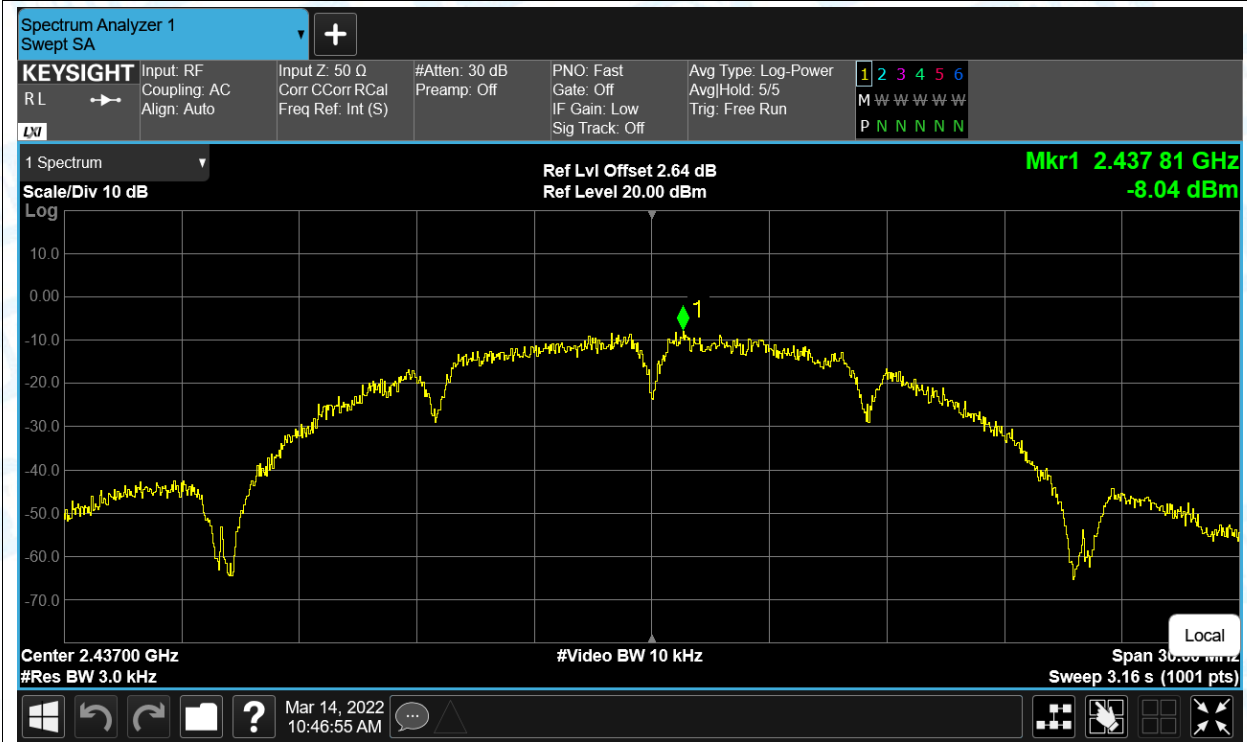
Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	-8.678	8	Pass
NVNT	b	2437	Ant1	-8.035	8	Pass
NVNT	b	2462	Ant1	-7.86	8	Pass
NVNT	g	2412	Ant1	-13.46	8	Pass
NVNT	g	2437	Ant1	-11.531	8	Pass
NVNT	g	2462	Ant1	-12.048	8	Pass
NVNT	n(HT20)	2412	Ant1	-13.437	8	Pass
NVNT	n(HT20)	2437	Ant1	-11.31	8	Pass
NVNT	n(HT20)	2462	Ant1	-13.165	8	Pass
NVNT	n(HT40)	2422	Ant1	-16.361	8	Pass
NVNT	n(HT40)	2437	Ant1	-16.56	8	Pass
NVNT	n(HT40)	2452	Ant1	-15.611	8	Pass

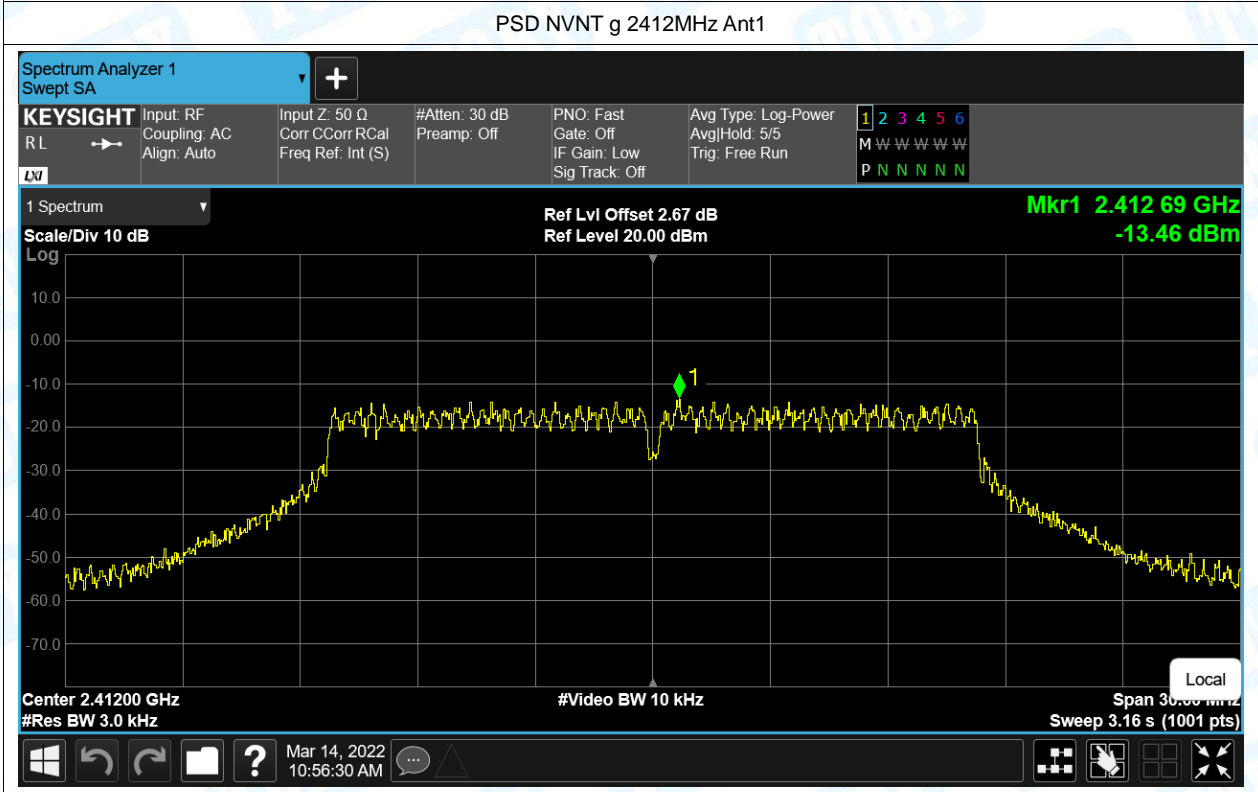
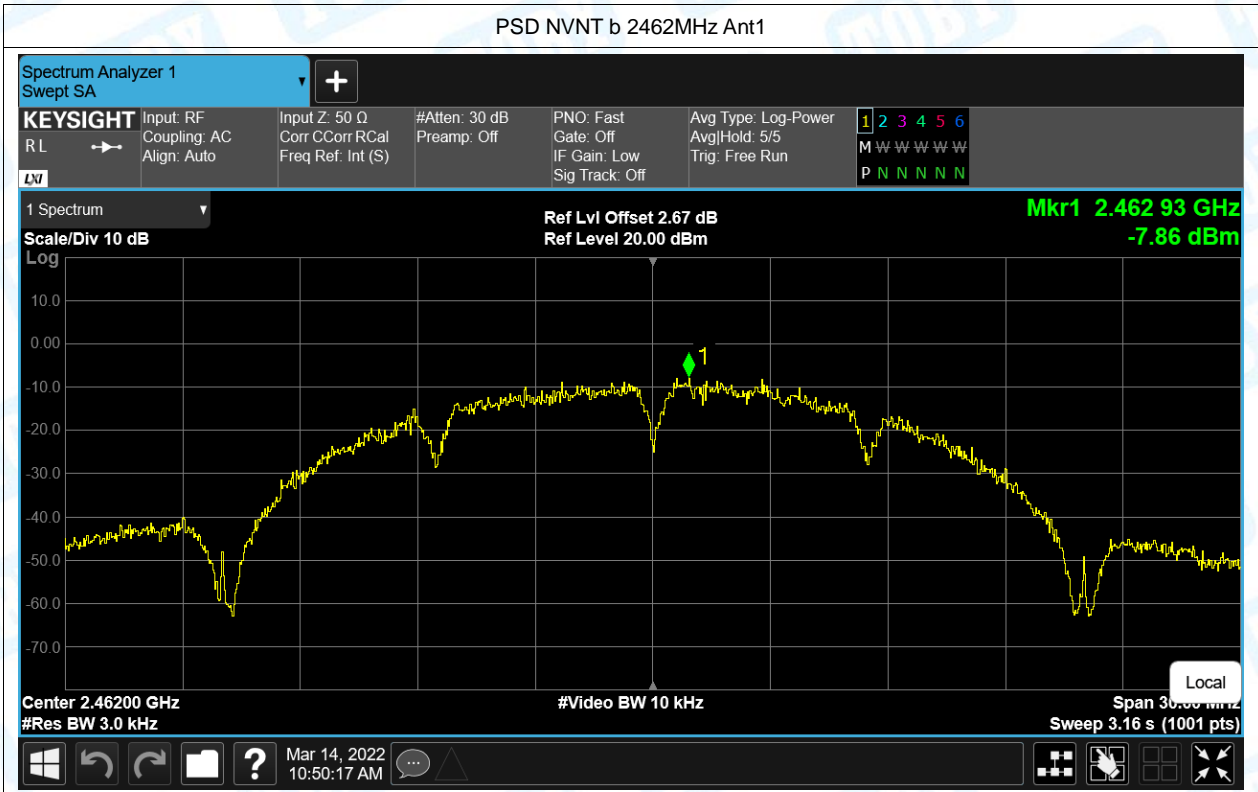
Test Graphs

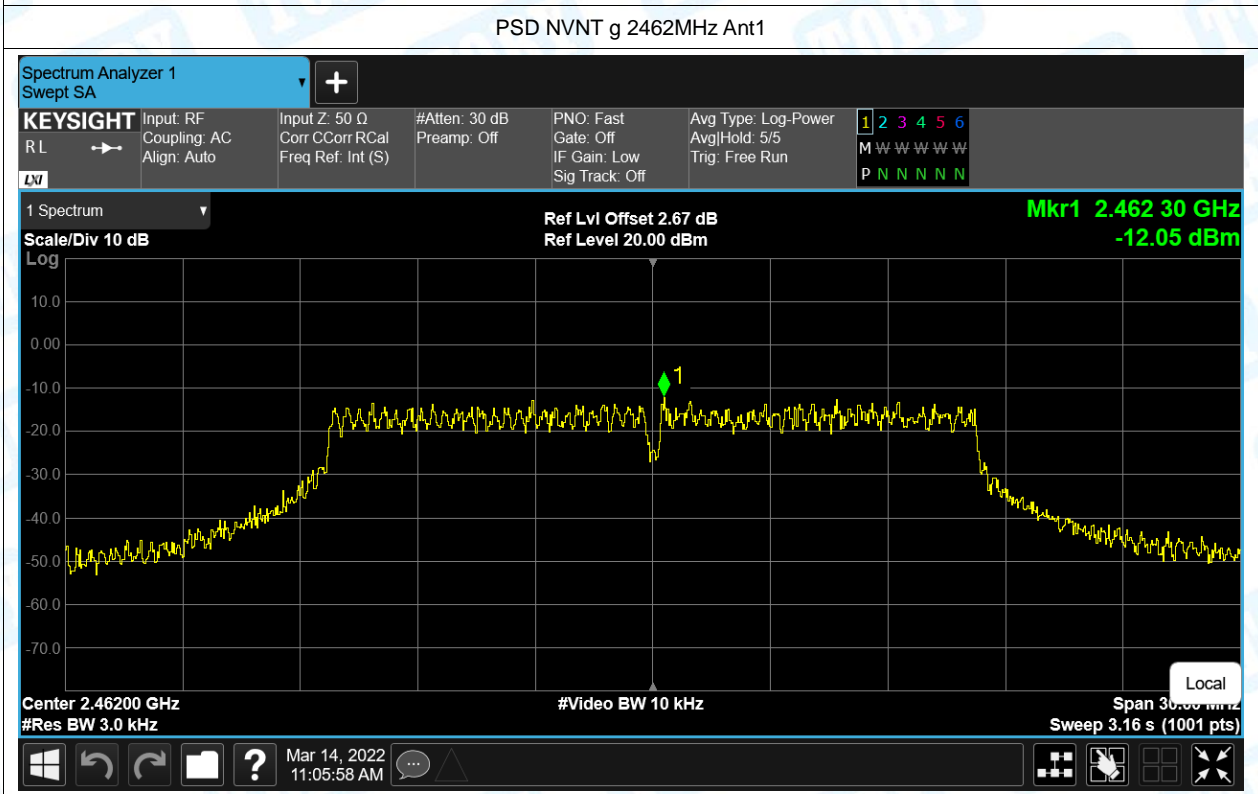
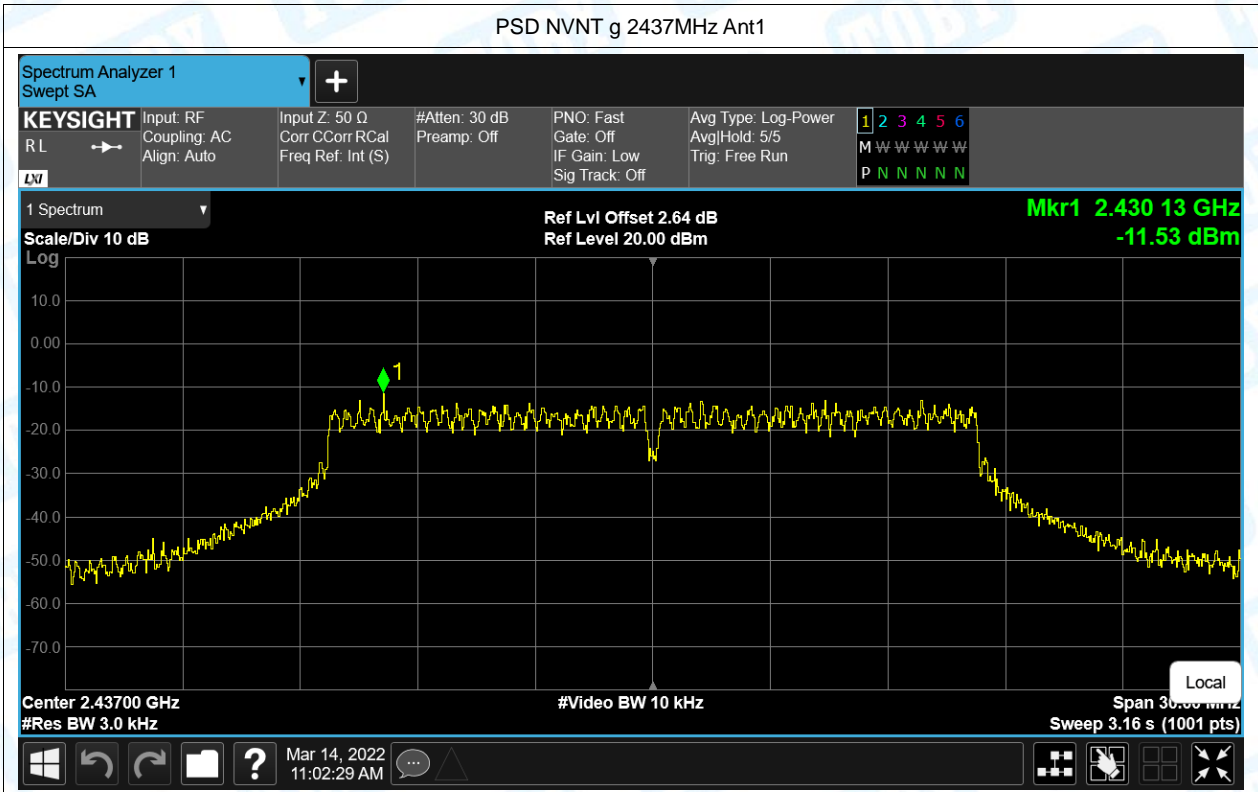
PSD NVNT b 2412MHz Ant1

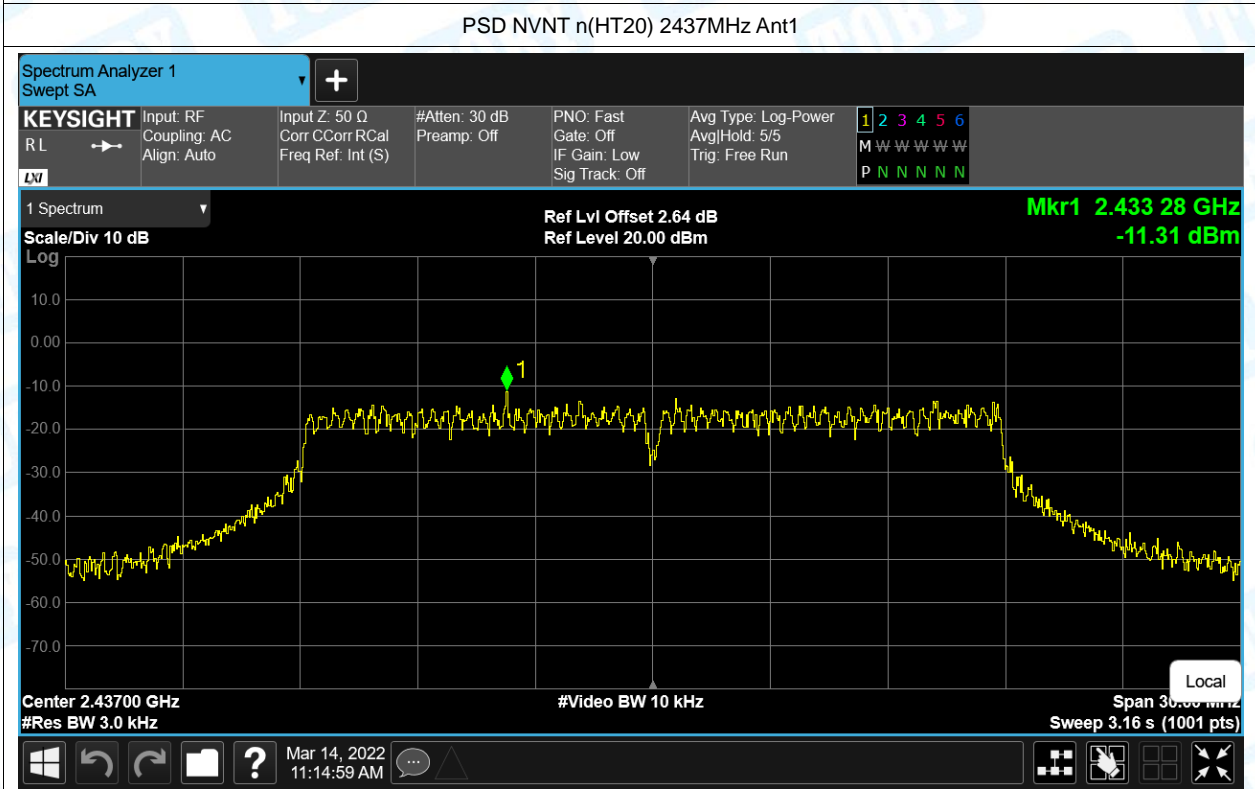
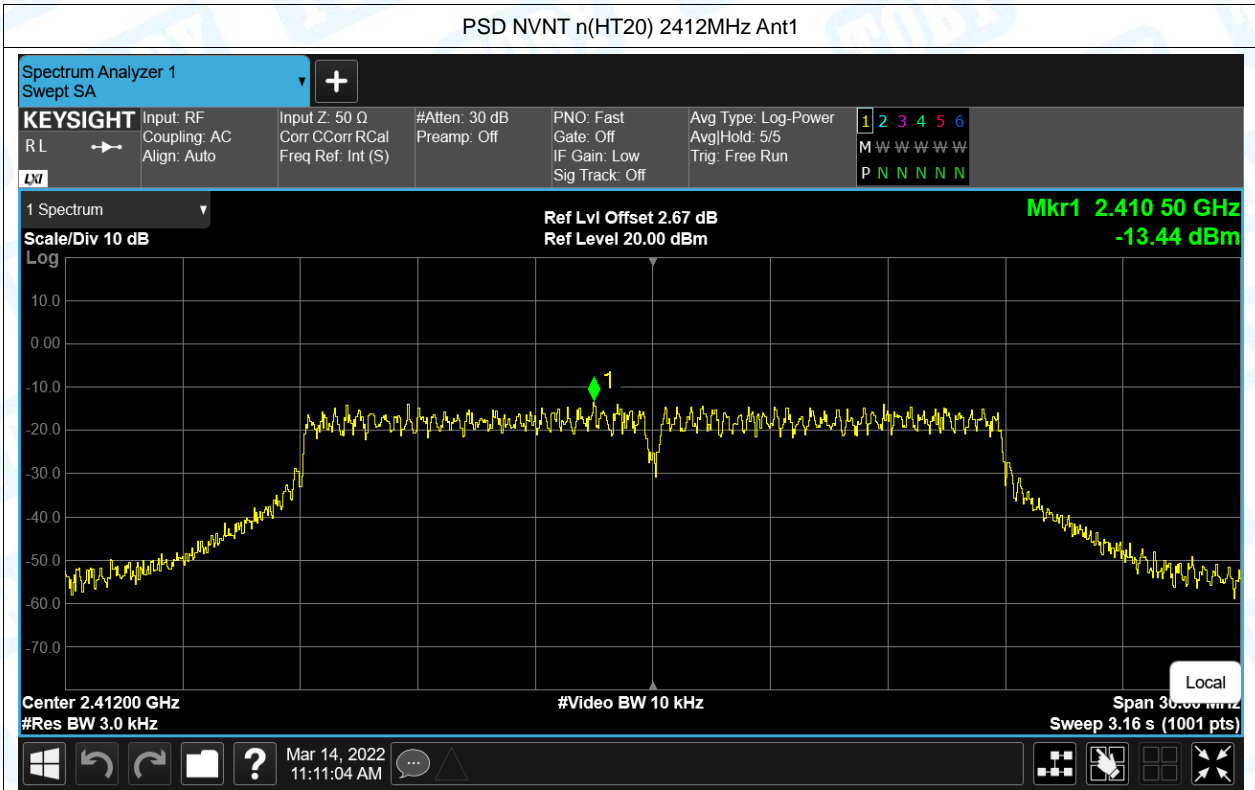


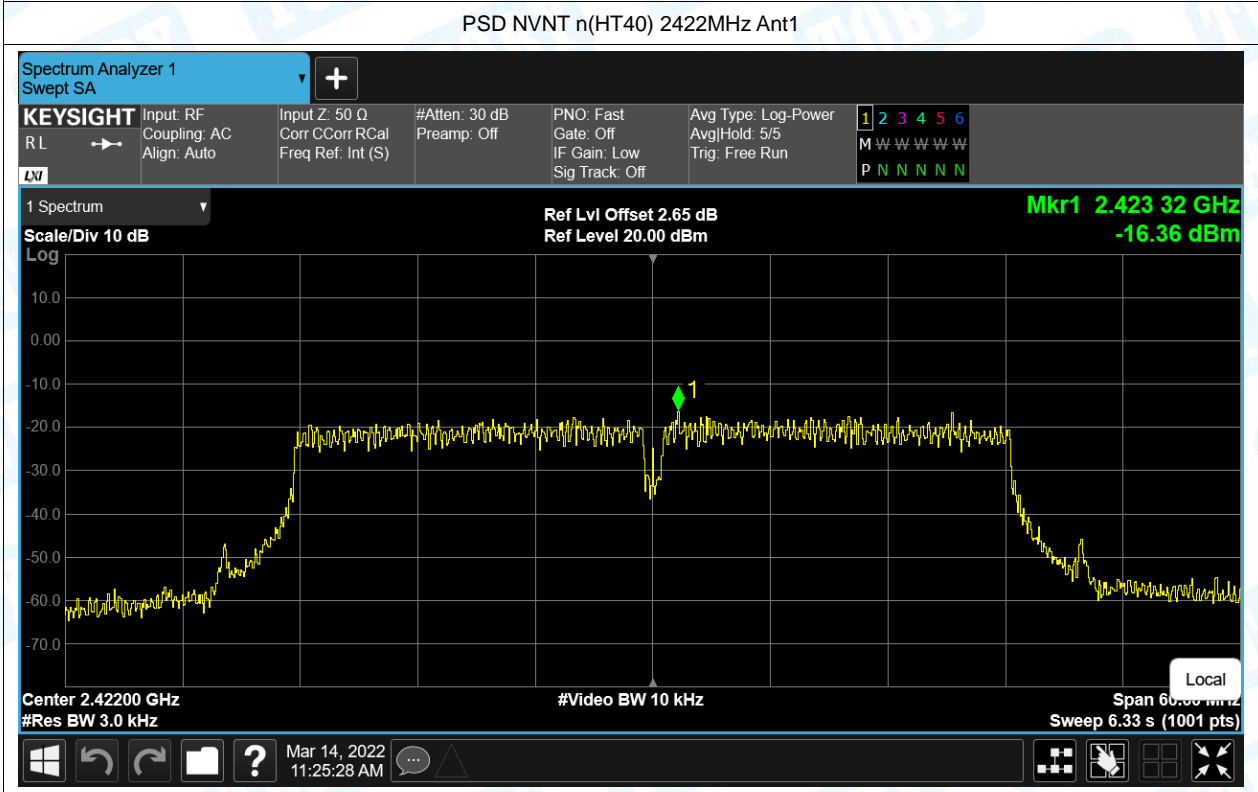
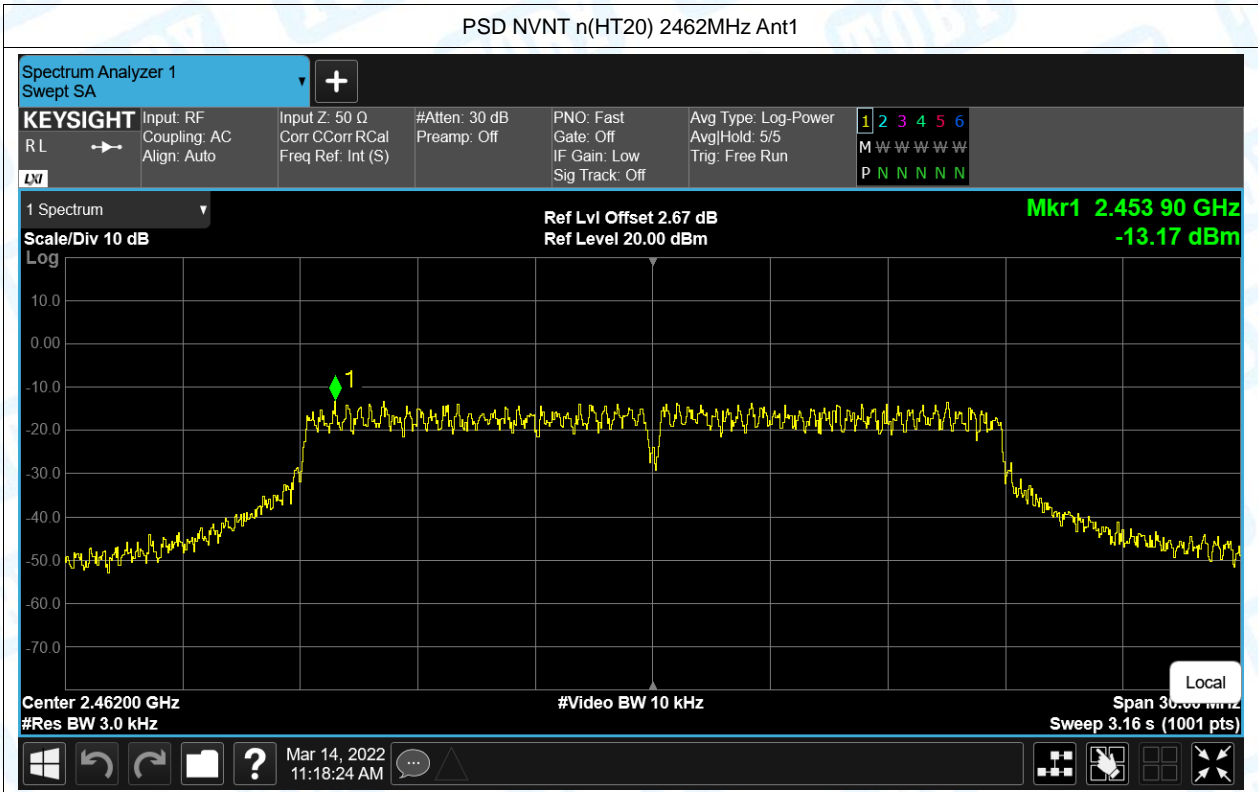
PSD NVNT b 2437MHz Ant1

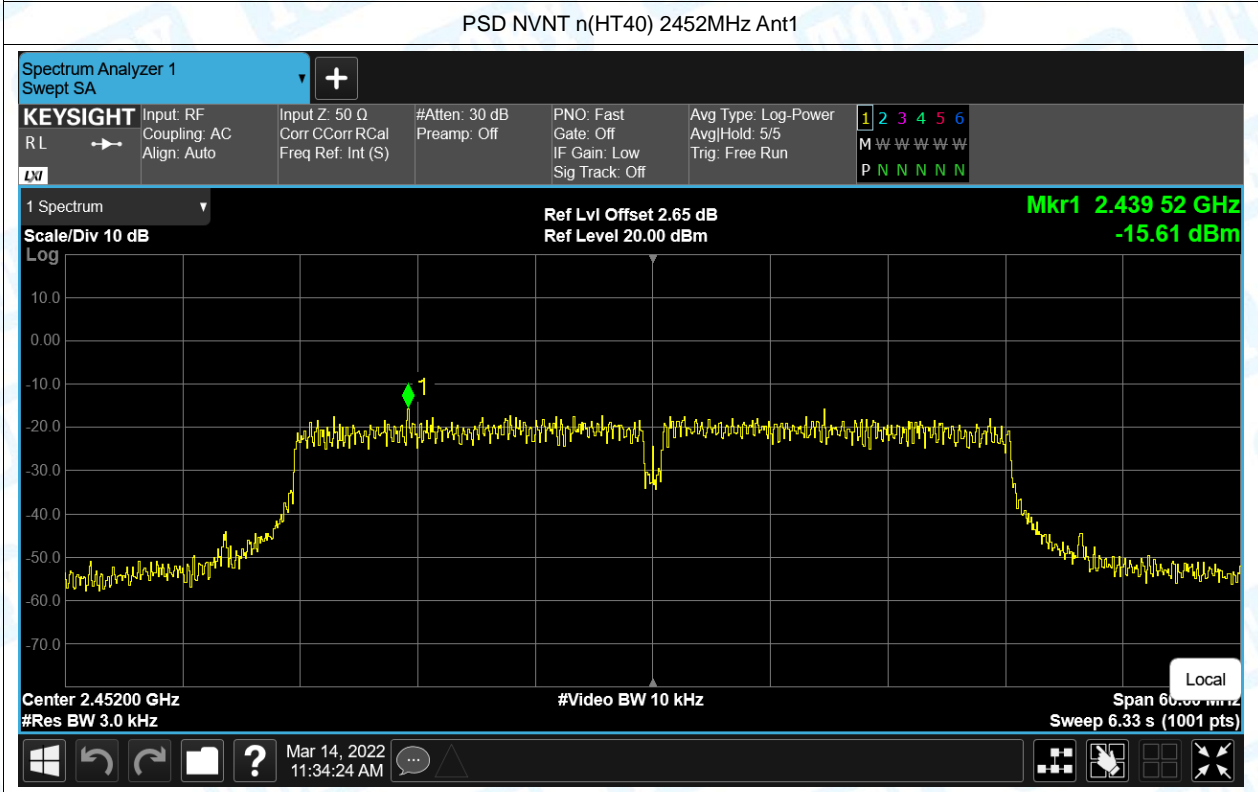
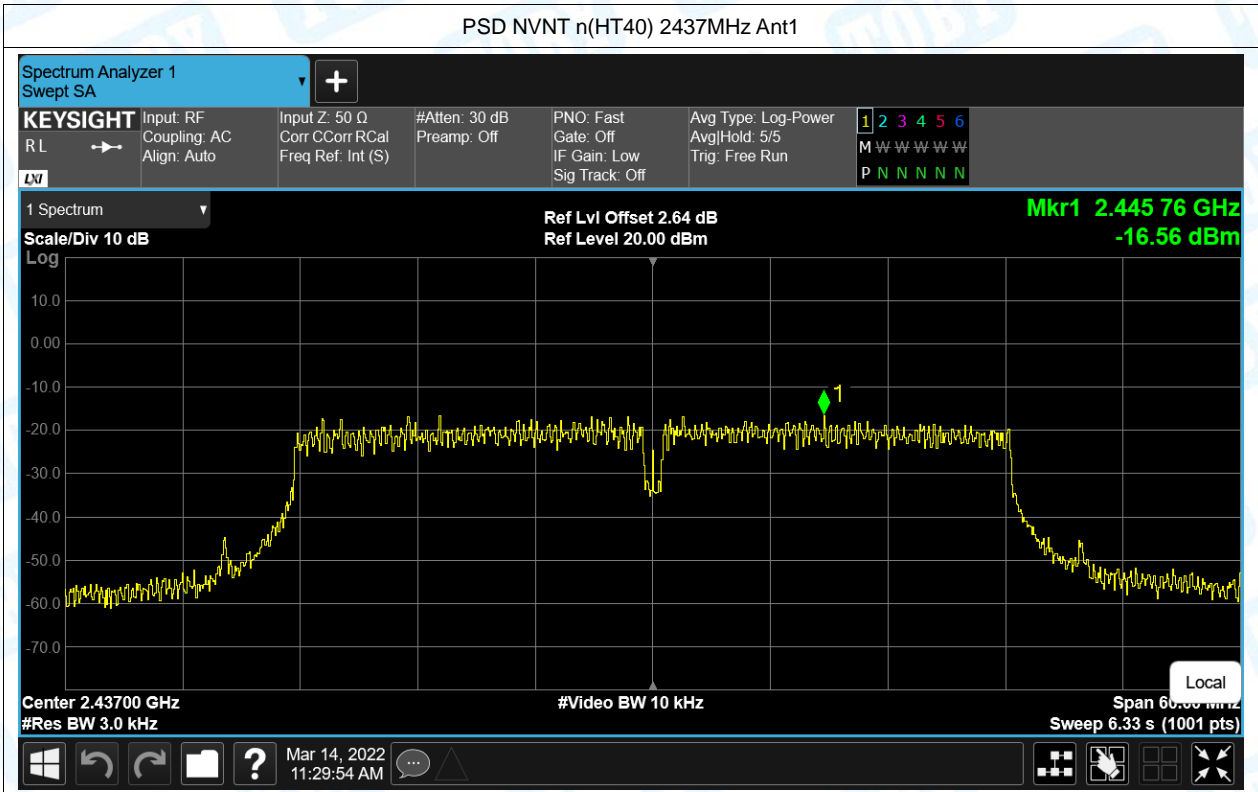










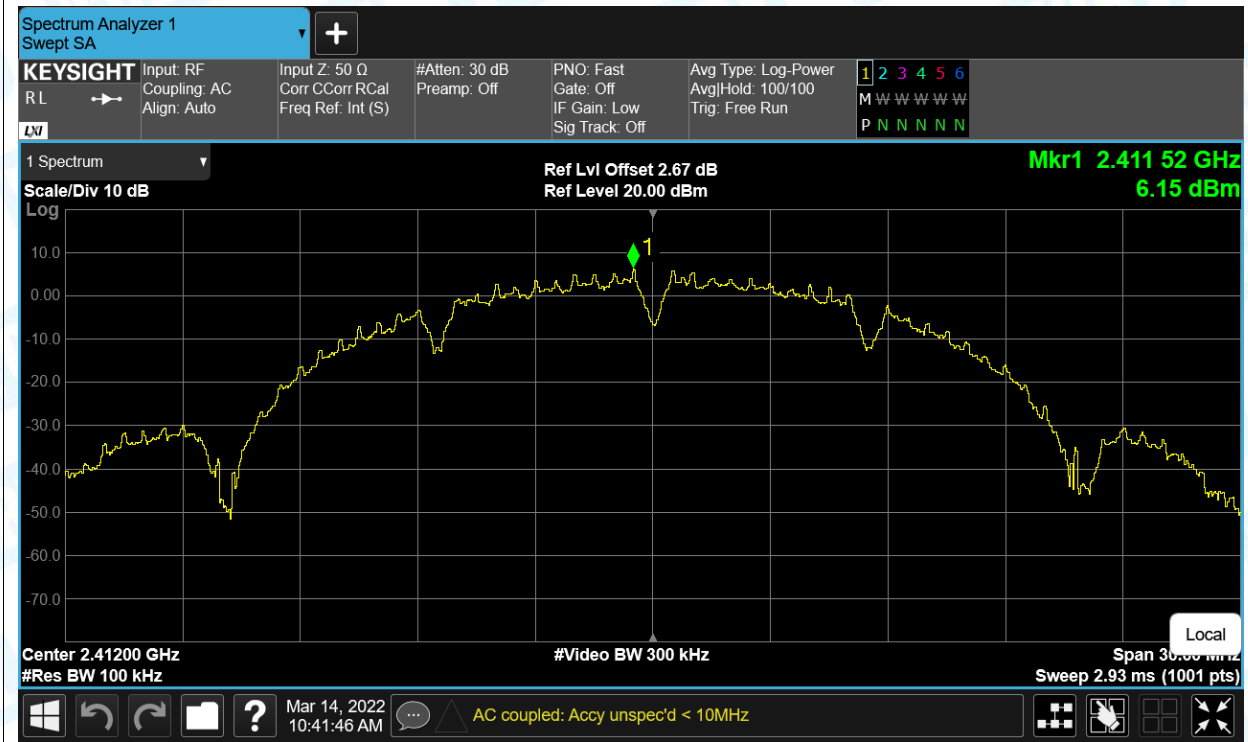


6.Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-58.13	-20	Pass
NVNT	b	2462	Ant1	-53.58	-20	Pass
NVNT	g	2412	Ant1	-47.64	-20	Pass
NVNT	g	2462	Ant1	-40.89	-20	Pass
NVNT	n(HT20)	2412	Ant1	-44.25	-20	Pass
NVNT	n(HT20)	2462	Ant1	-35.66	-20	Pass
NVNT	n(HT40)	2422	Ant1	-39.37	-20	Pass
NVNT	n(HT40)	2452	Ant1	-33.74	-20	Pass

Test Graphs

Band Edge NVNT b 2412MHz Ant1 Ref



Band Edge NVNT b 2412MHz Ant1 Emission

