

RF Test Data for 2.4G WiFi (Conducted Measurements)

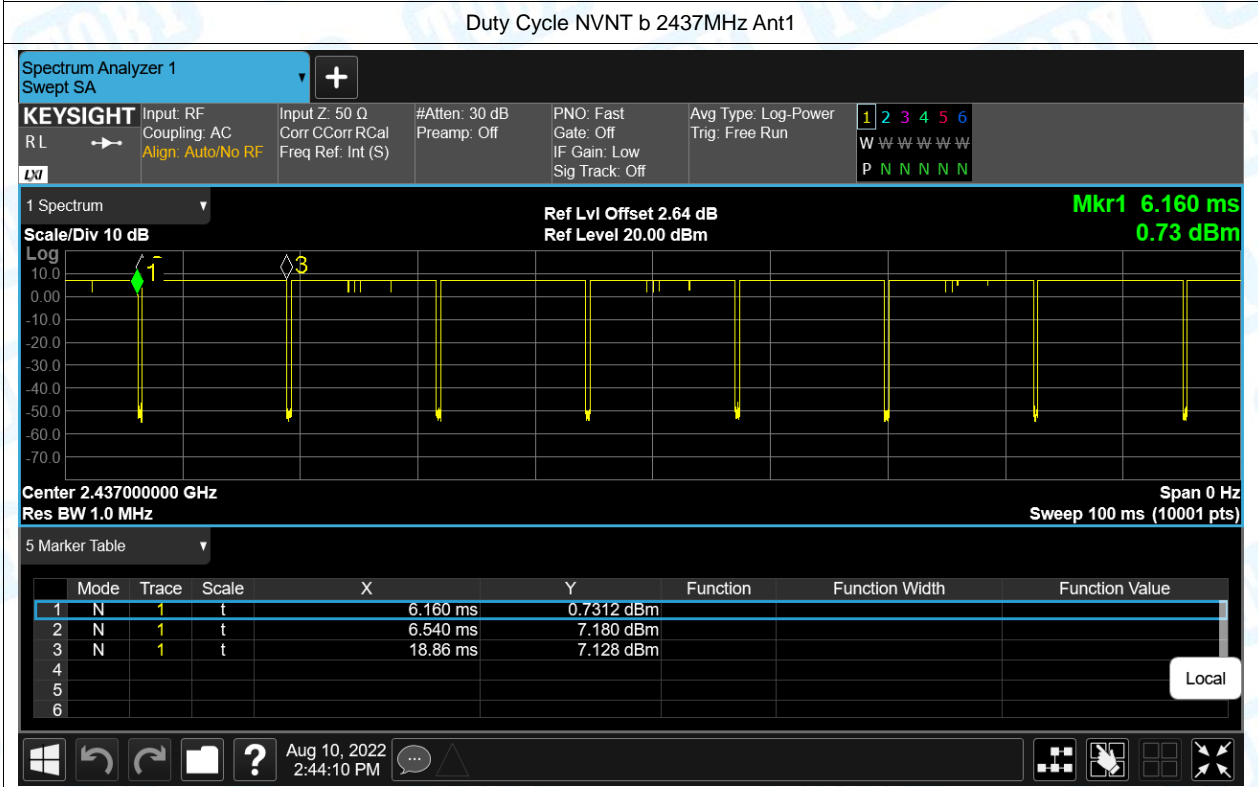
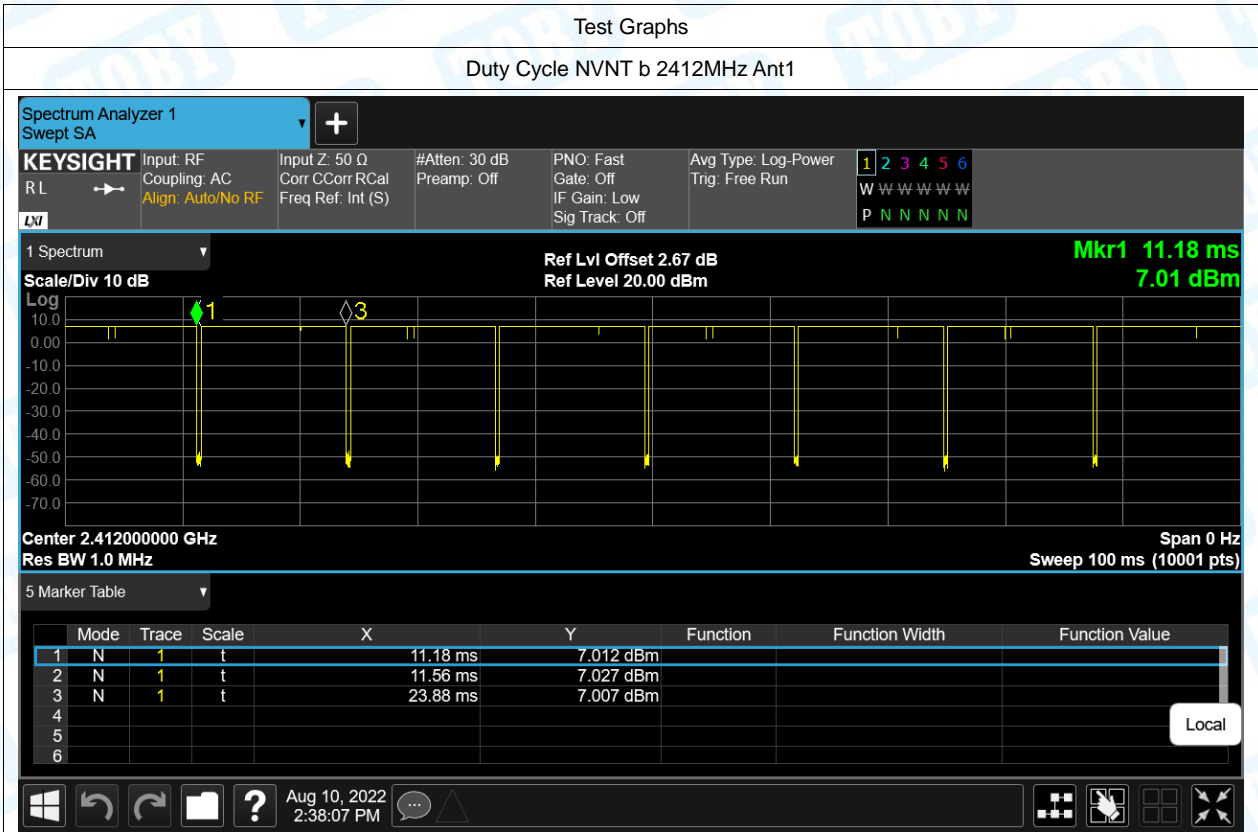
General Description of EUT	
Product Name:	Alto X6
Test Model:	Alto X6
Sample ID:	202206-0362-04#
Environmental Conditions	
Temperature:	25°C
Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz
Test Engineer:	Huang jian ping
Note: For a more detailed features description, please refer to the report TBR-C-202206-0362-22.	

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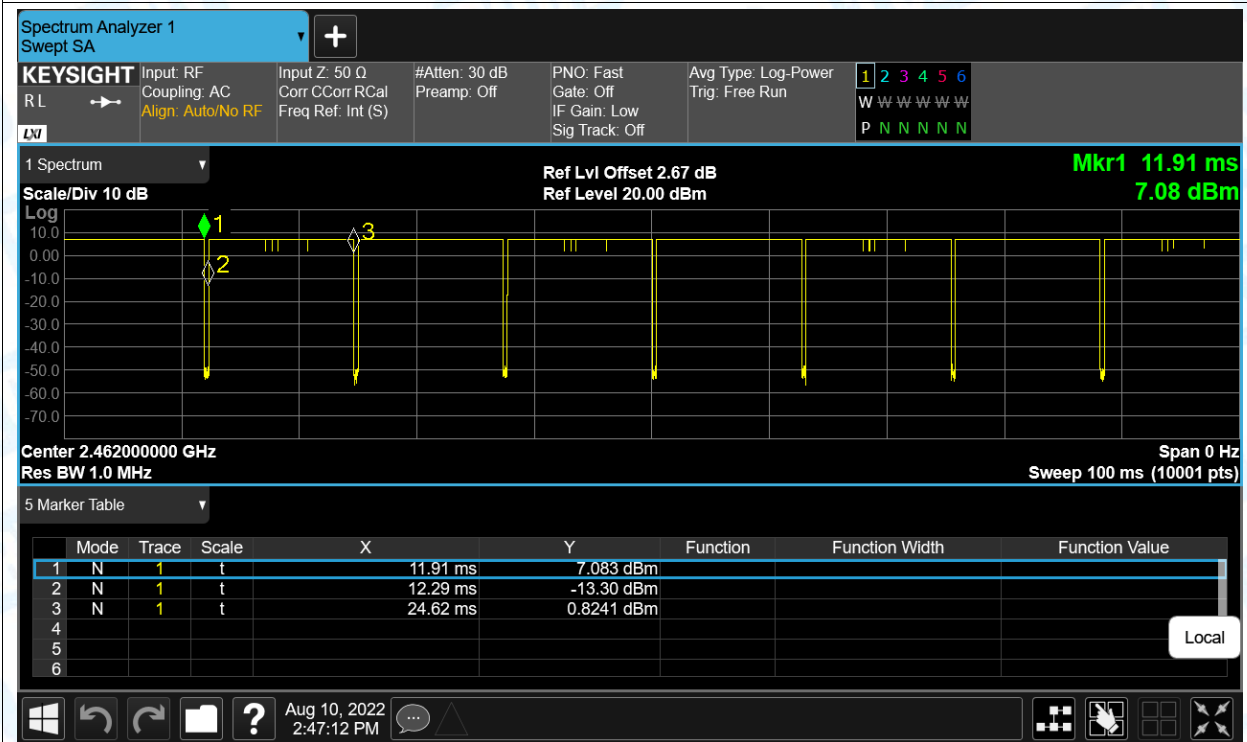
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1.Duty Cycle

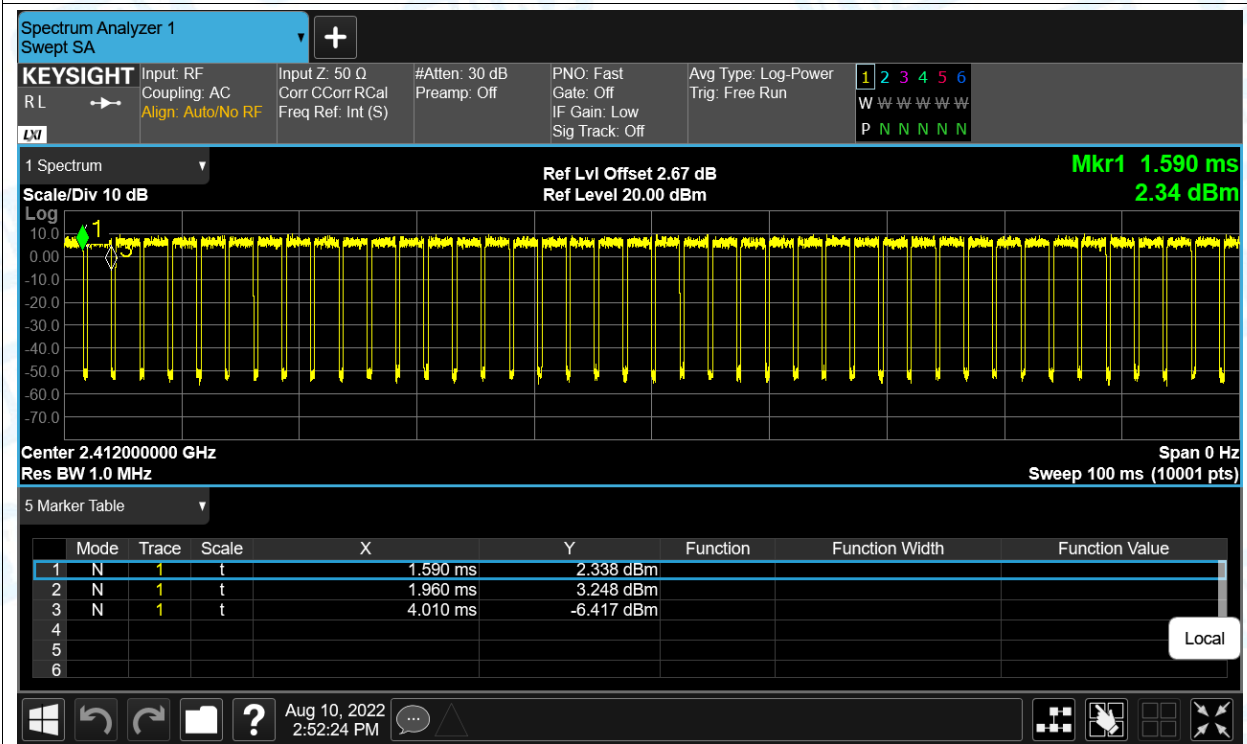
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	Ant1	97.01	0.13	0.08
NVNT	b	2437	Ant1	97.01	0.13	0.08
NVNT	b	2462	Ant1	97.01	0.13	0.08
NVNT	g	2412	Ant1	84.71	0.72	0.49
NVNT	g	2437	Ant1	84.71	0.72	0.49
NVNT	g	2462	Ant1	84.71	0.72	0.49
NVNT	n(HT20)	2412	Ant1	84.89	0.71	0.52
NVNT	n(HT20)	2437	Ant1	84.89	0.71	0.52
NVNT	n(HT20)	2462	Ant1	84.89	0.71	0.52
NVNT	n(HT40)	2422	Ant1	83.78	0.77	1.08
NVNT	n(HT40)	2437	Ant1	84.68	0.72	1.06
NVNT	n(HT40)	2452	Ant1	84.68	0.72	1.06



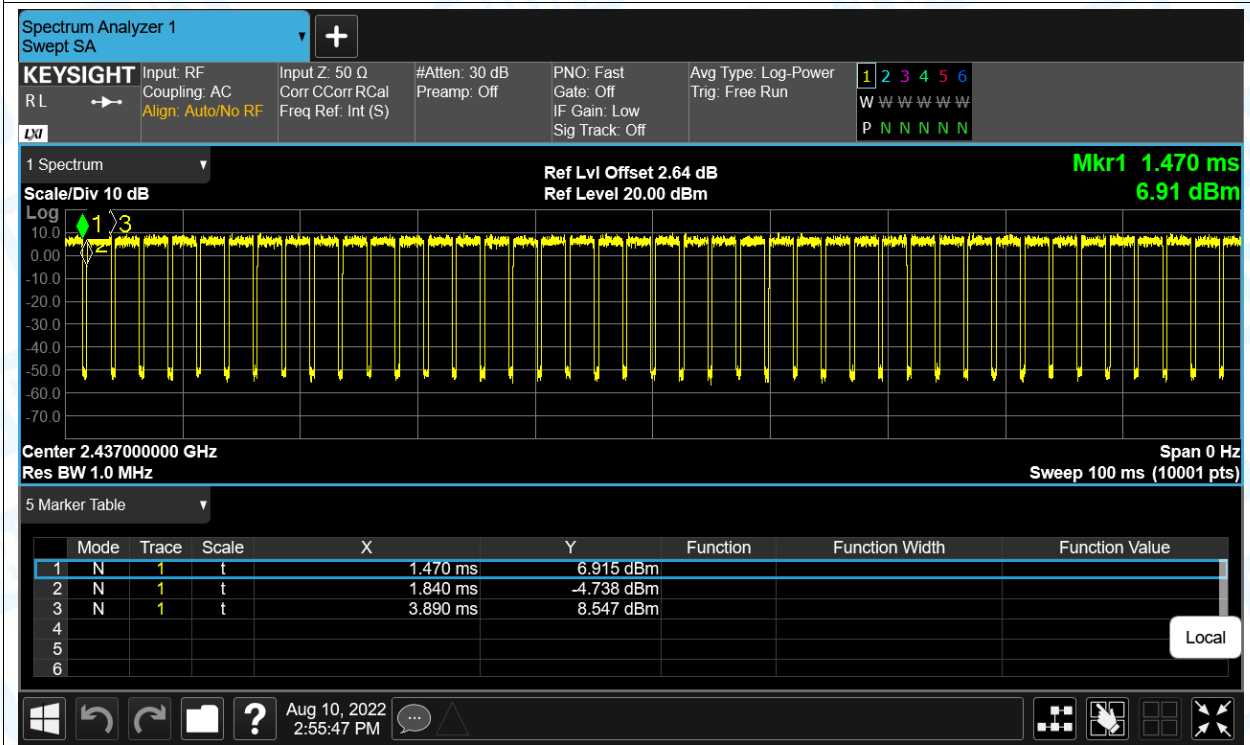
Duty Cycle NVNT b 2462MHz Ant1



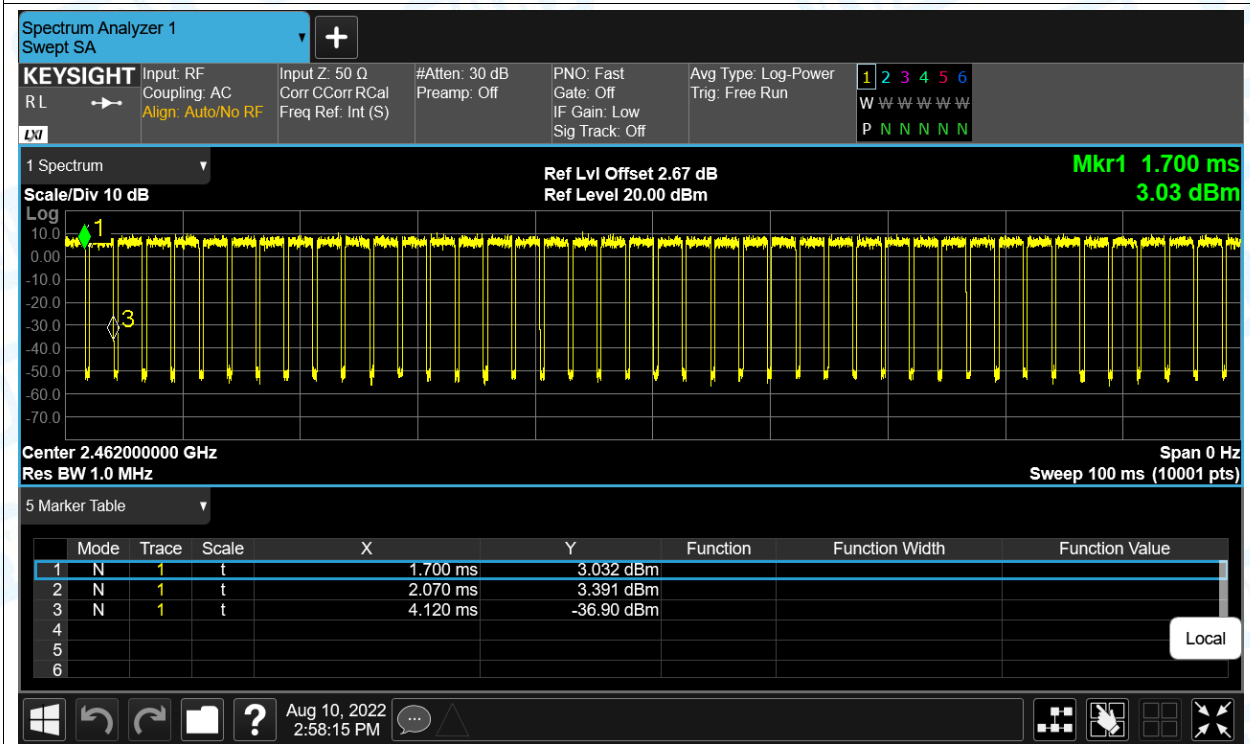
Duty Cycle NVNT g 2412MHz Ant1



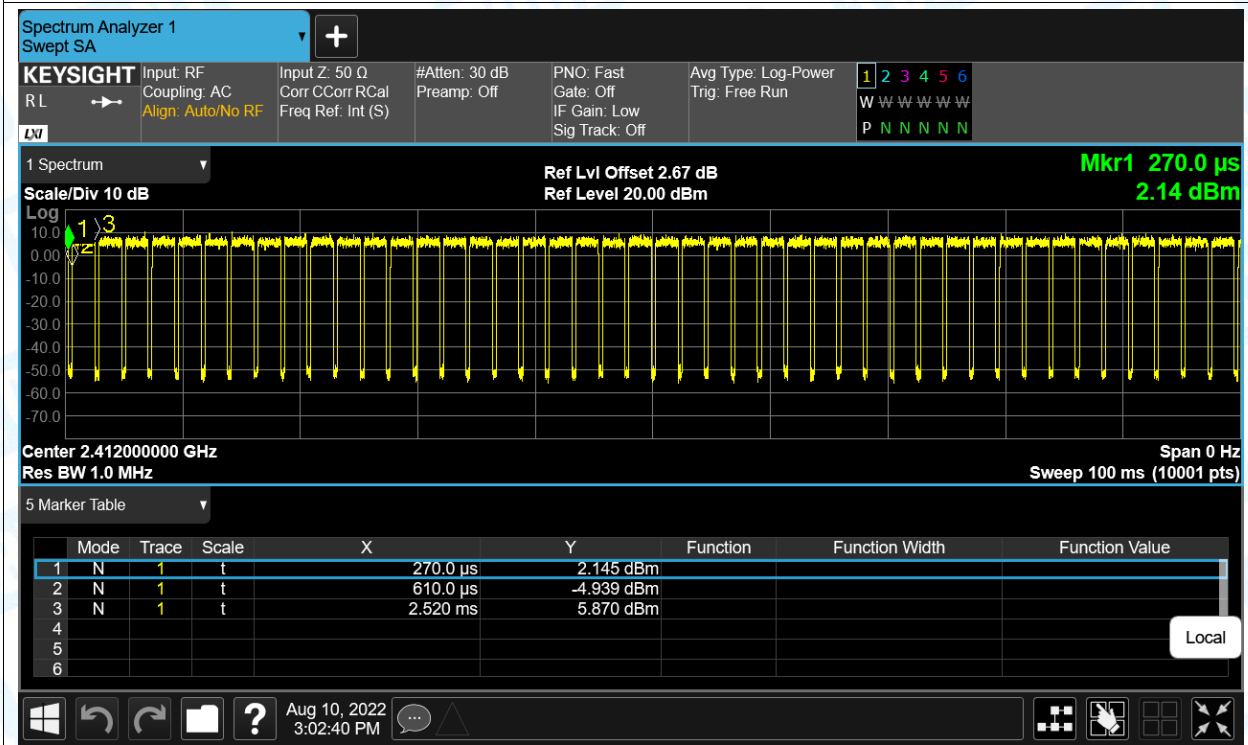
Duty Cycle NVNT g 2437MHz Ant1



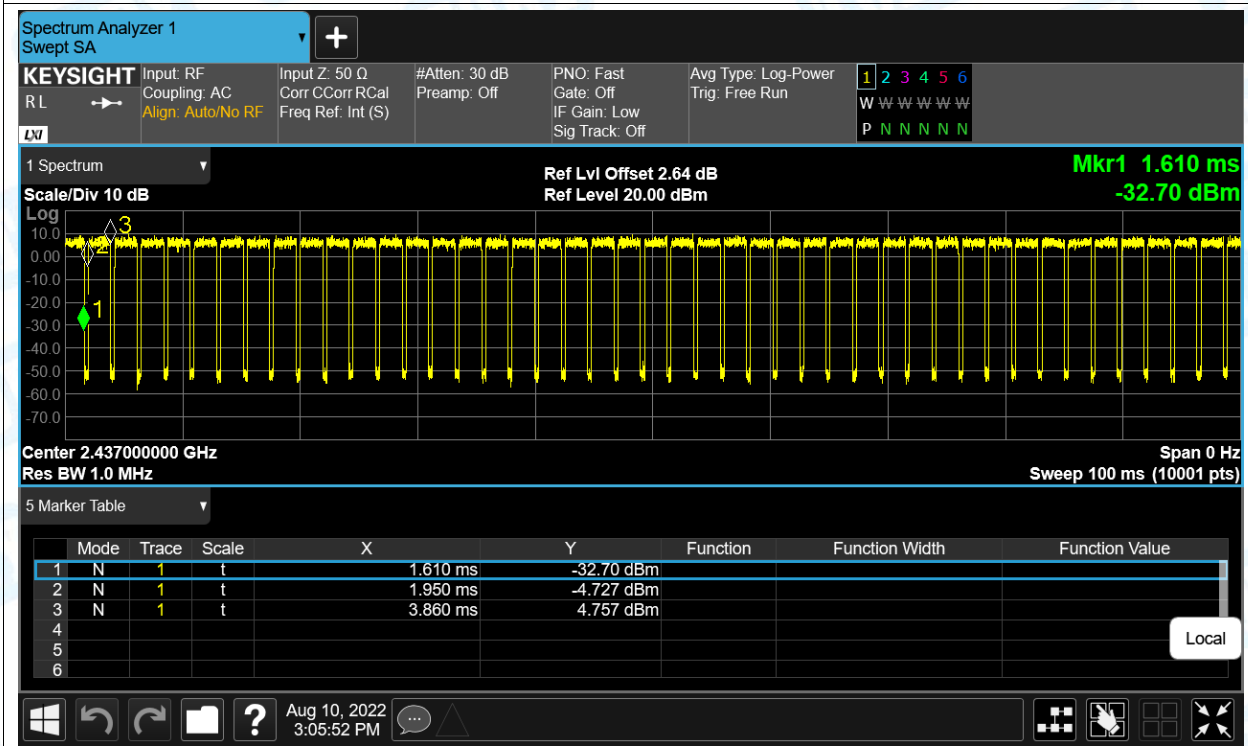
Duty Cycle NVNT g 2462MHz Ant1

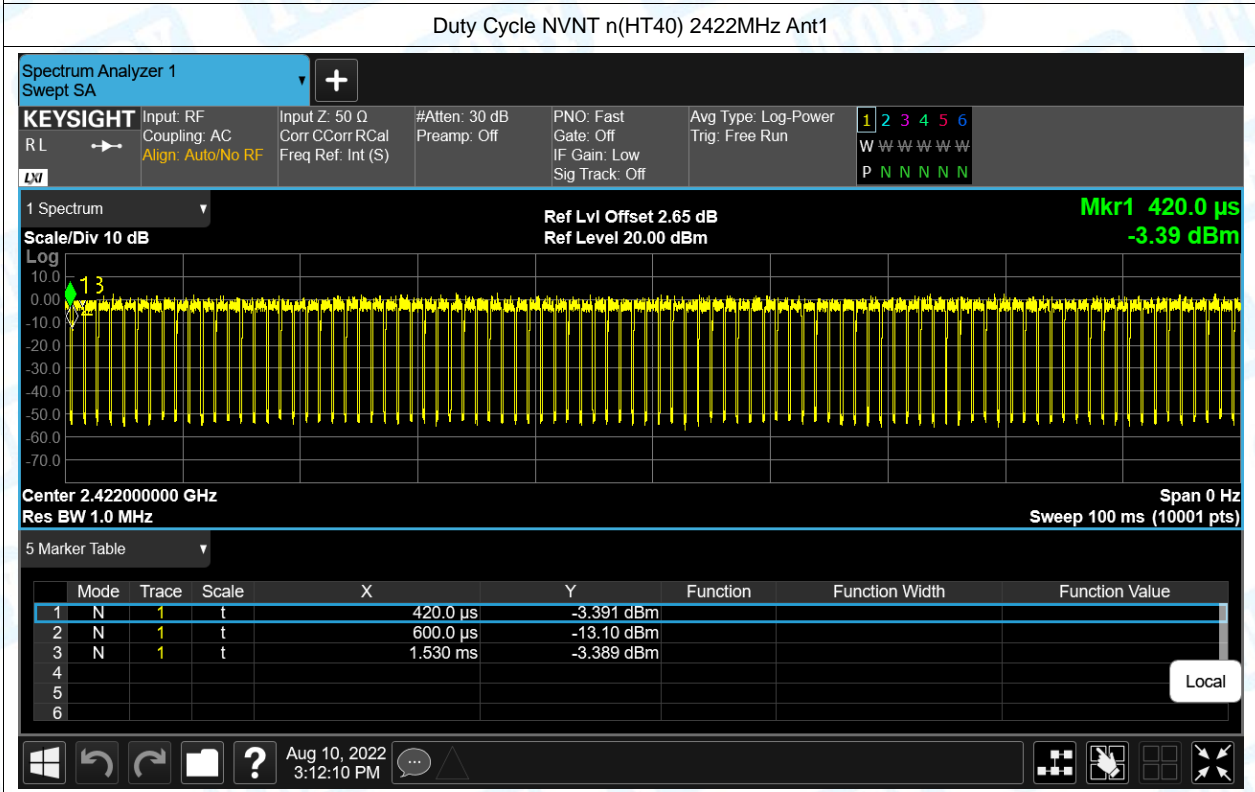
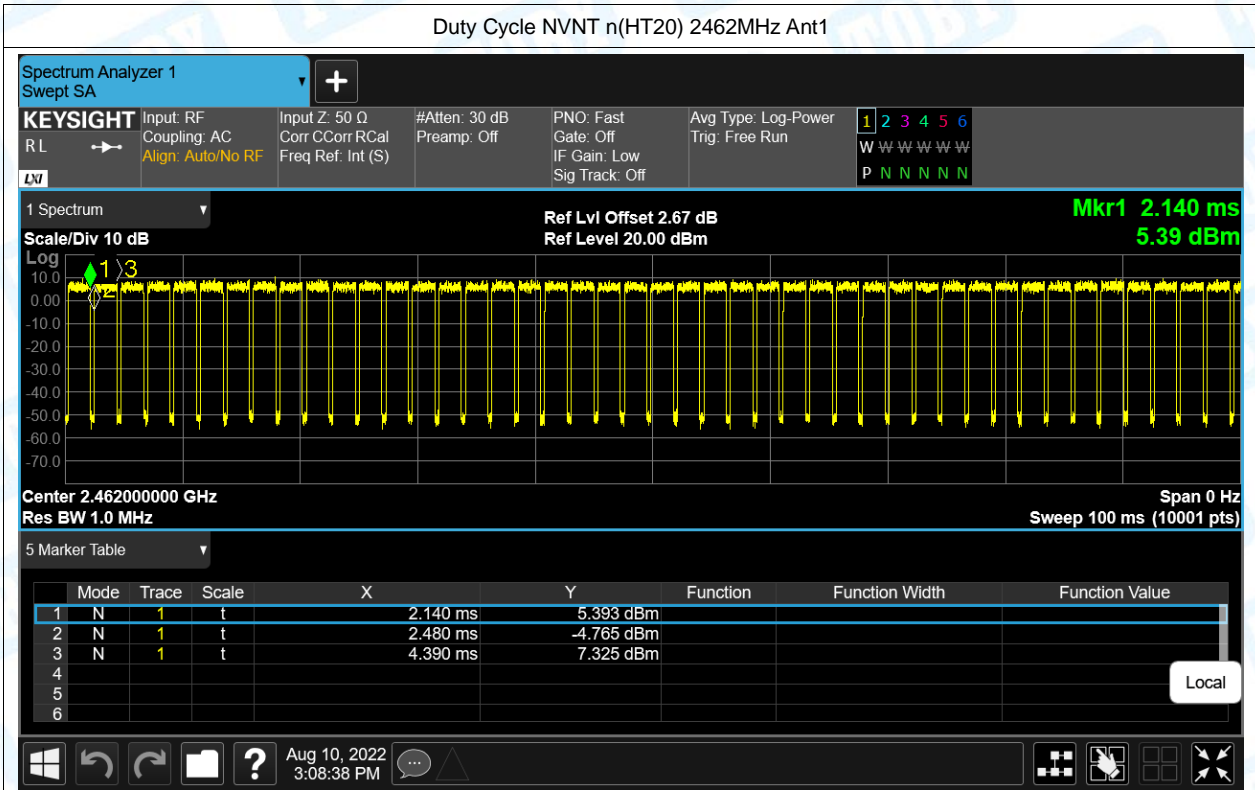


Duty Cycle NVNT n(HT20) 2412MHz Ant1

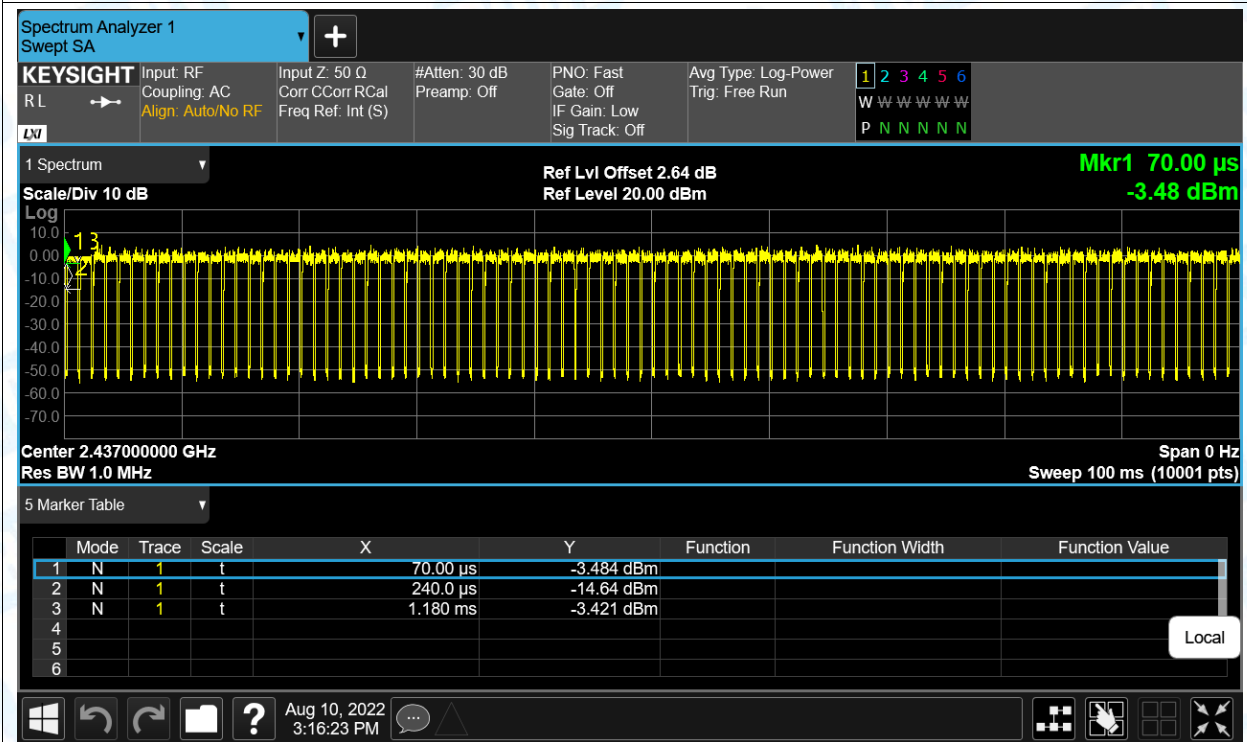


Duty Cycle NVNT n(HT20) 2437MHz Ant1

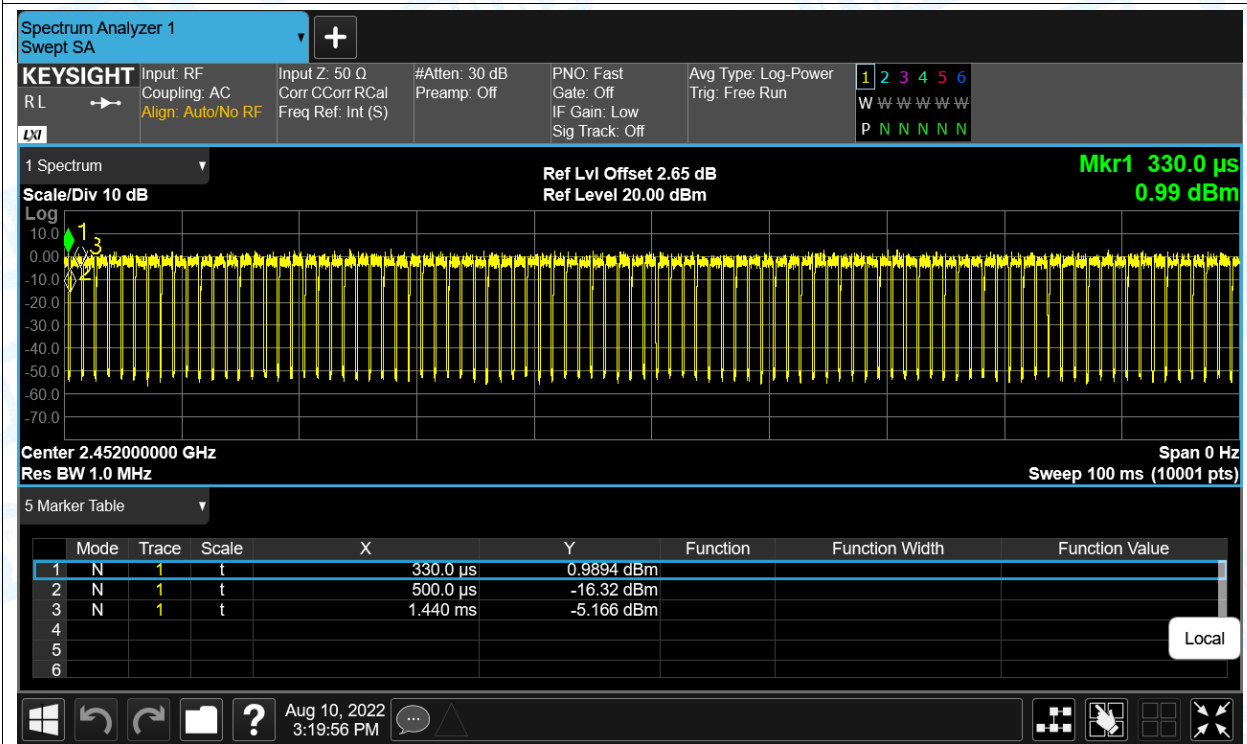




Duty Cycle NVNT n(HT40) 2437MHz Ant1



Duty Cycle NVNT n(HT40) 2452MHz Ant1



2.Maximum Conducted Output Power

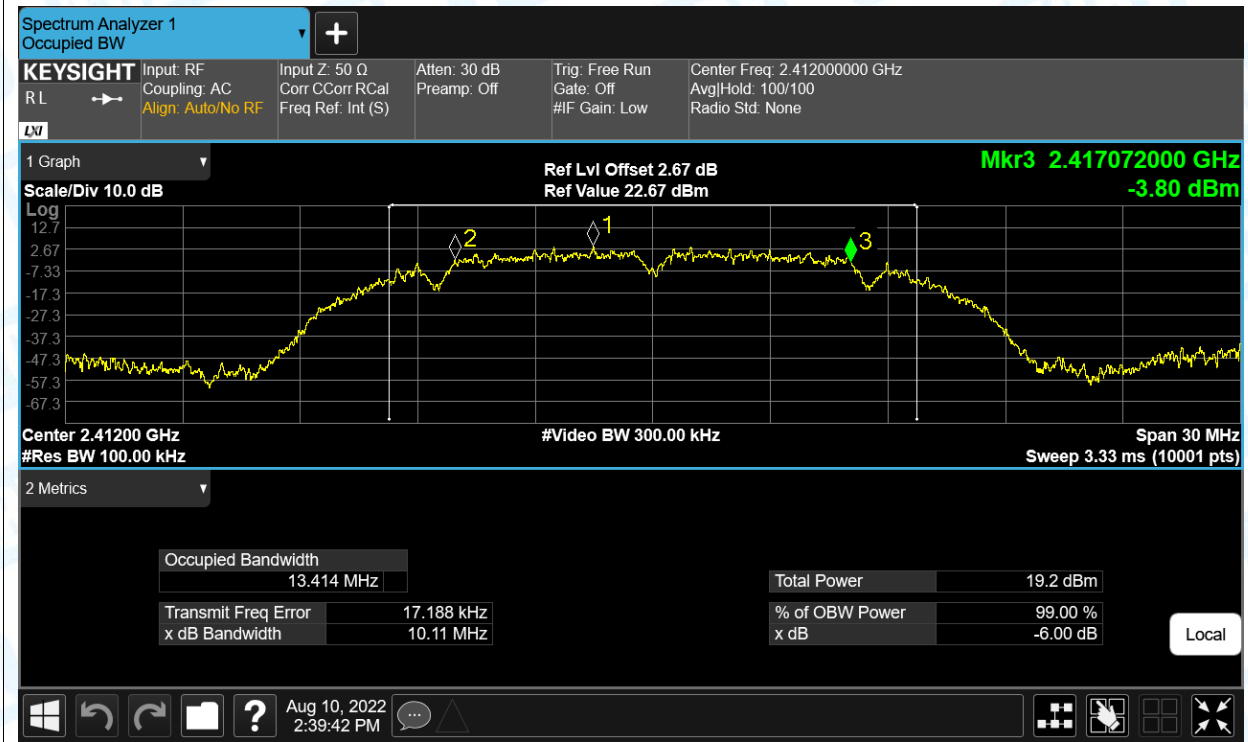
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	17.119	30	Pass
NVNT	b	2437	Ant1	17.224	30	Pass
NVNT	b	2462	Ant1	17.575	30	Pass
NVNT	g	2412	Ant1	16.02	30	Pass
NVNT	g	2437	Ant1	16.339	30	Pass
NVNT	g	2462	Ant1	16.456	30	Pass
NVNT	n(HT20)	2412	Ant1	17.438	30	Pass
NVNT	n(HT20)	2437	Ant1	17.569	30	Pass
NVNT	n(HT20)	2462	Ant1	18.028	30	Pass
NVNT	n(HT40)	2422	Ant1	14.451	30	Pass
NVNT	n(HT40)	2437	Ant1	14.367	30	Pass
NVNT	n(HT40)	2452	Ant1	14.77	30	Pass

3.-6dB Bandwidth

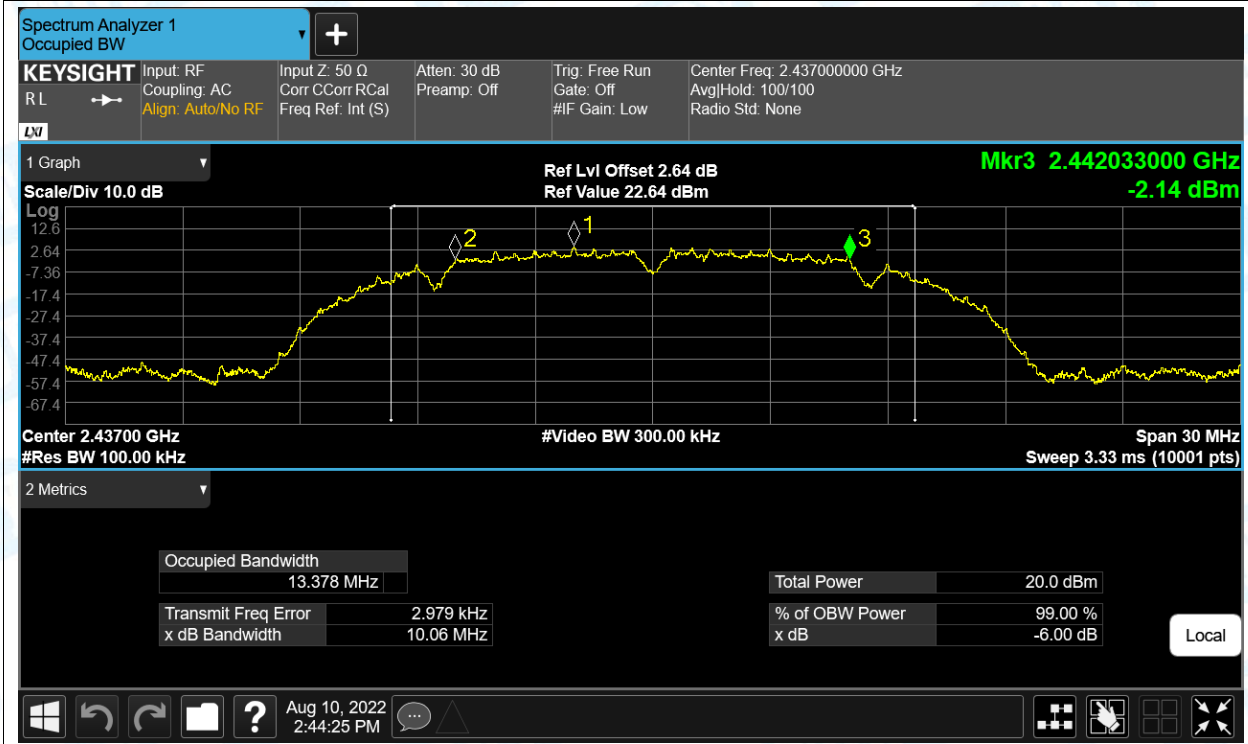
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	10.11	0.5	Pass
NVNT	b	2437	Ant1	10.06	0.5	Pass
NVNT	b	2462	Ant1	10.11	0.5	Pass
NVNT	g	2412	Ant1	12.29	0.5	Pass
NVNT	g	2437	Ant1	12.63	0.5	Pass
NVNT	g	2462	Ant1	13.75	0.5	Pass
NVNT	n(HT20)	2412	Ant1	12.53	0.5	Pass
NVNT	n(HT20)	2437	Ant1	15.13	0.5	Pass
NVNT	n(HT20)	2462	Ant1	13.82	0.5	Pass
NVNT	n(HT40)	2422	Ant1	32.61	0.5	Pass
NVNT	n(HT40)	2437	Ant1	33.79	0.5	Pass
NVNT	n(HT40)	2452	Ant1	35.05	0.5	Pass

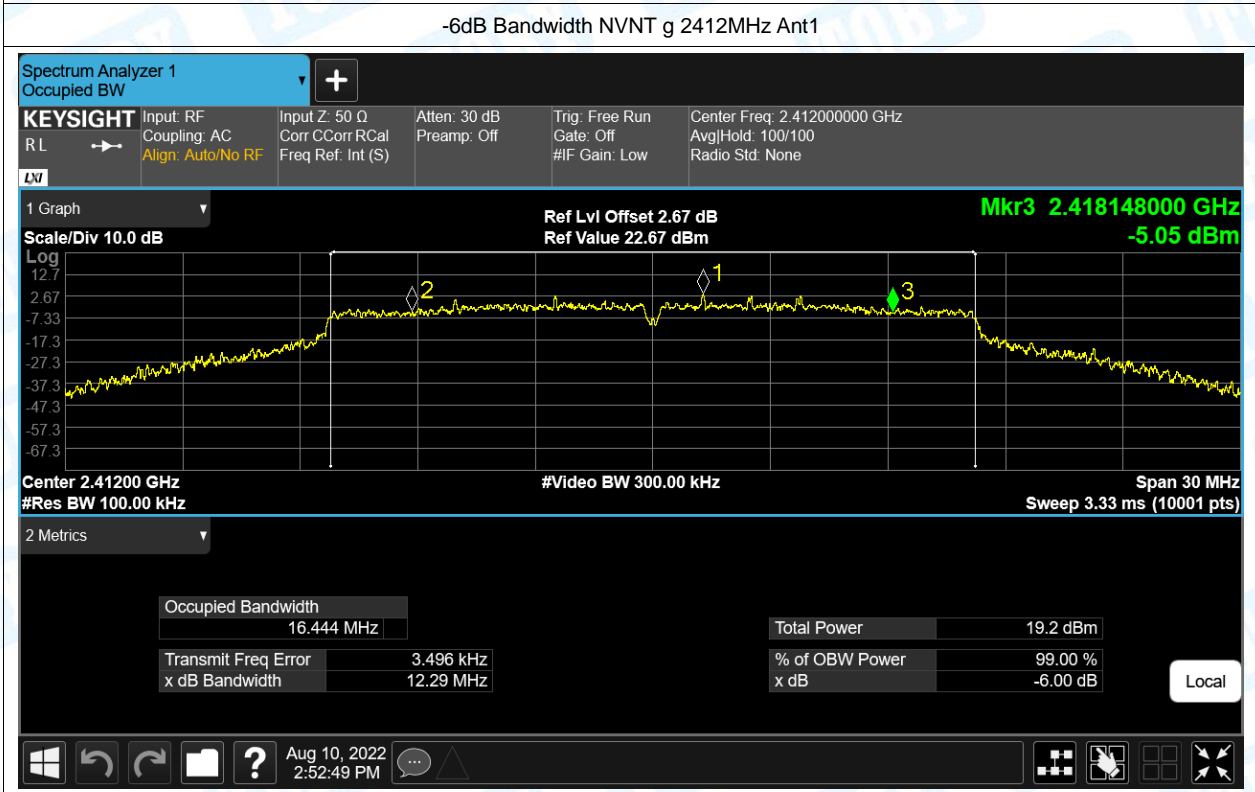
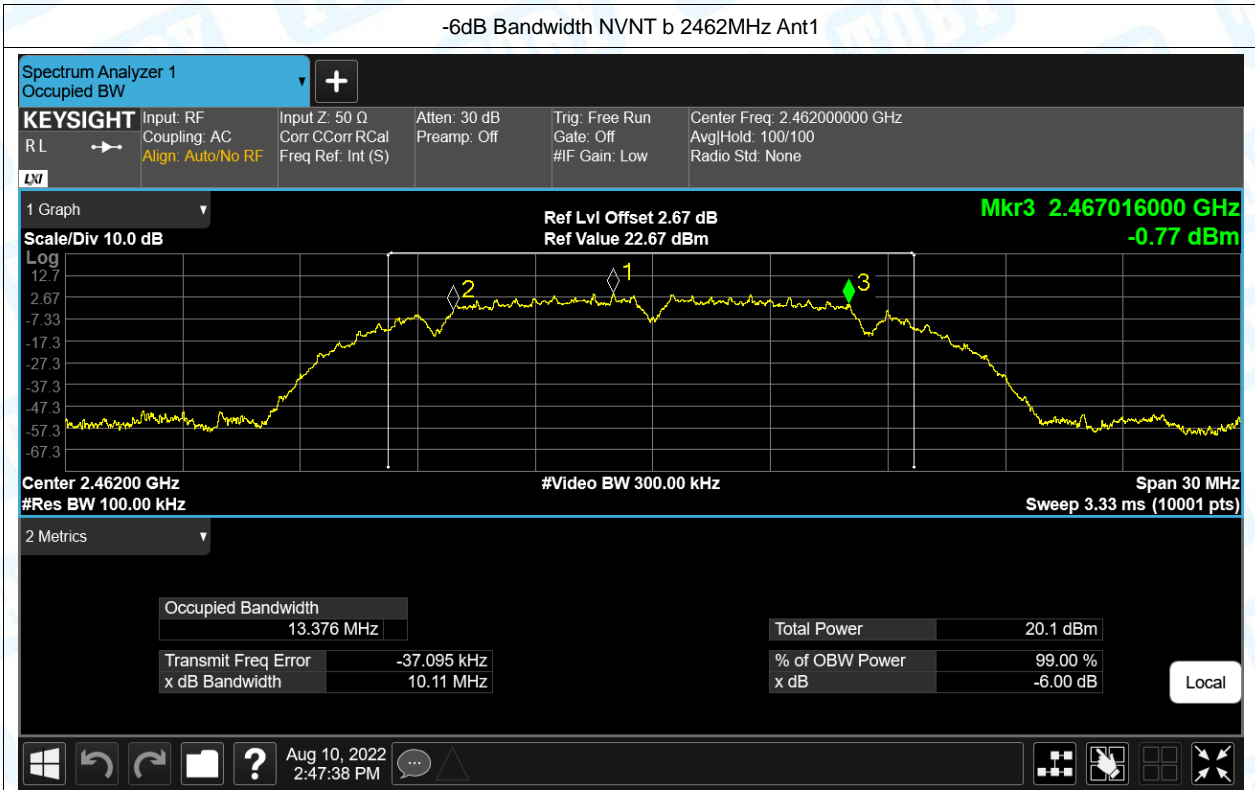
Test Graphs

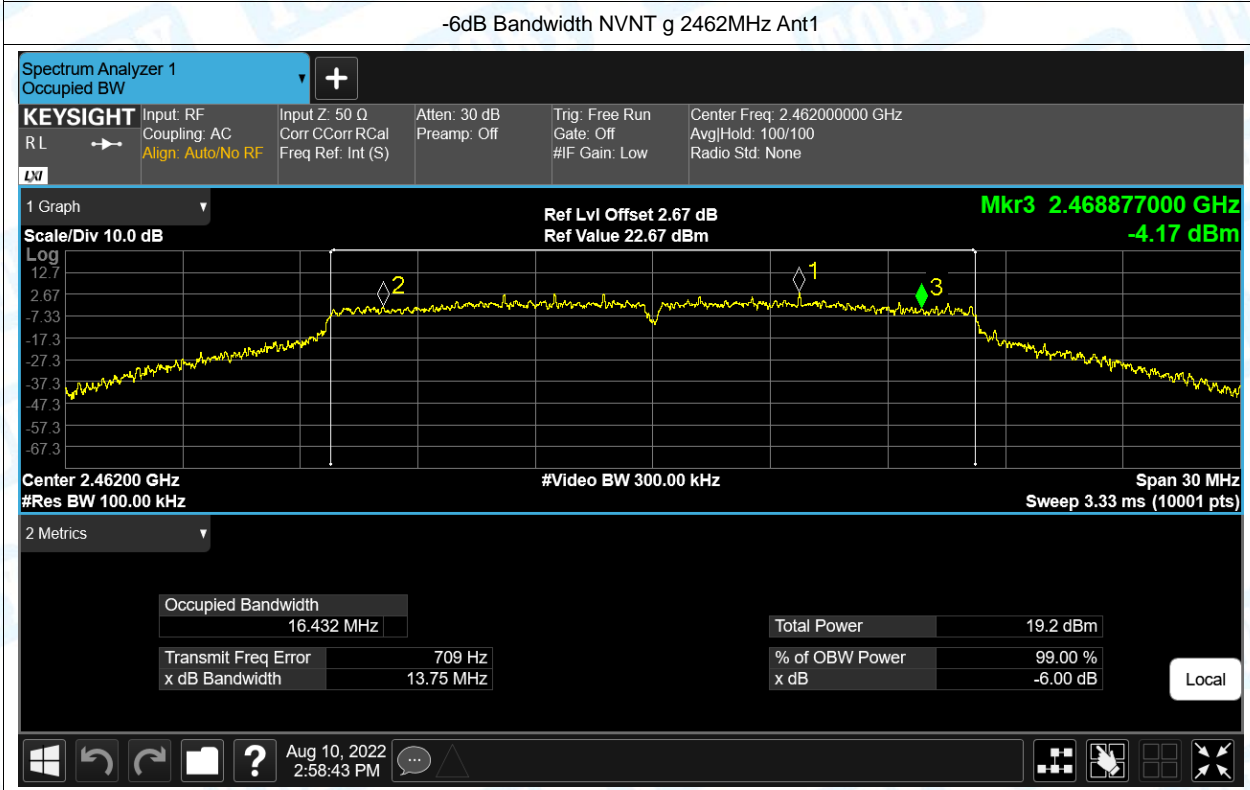
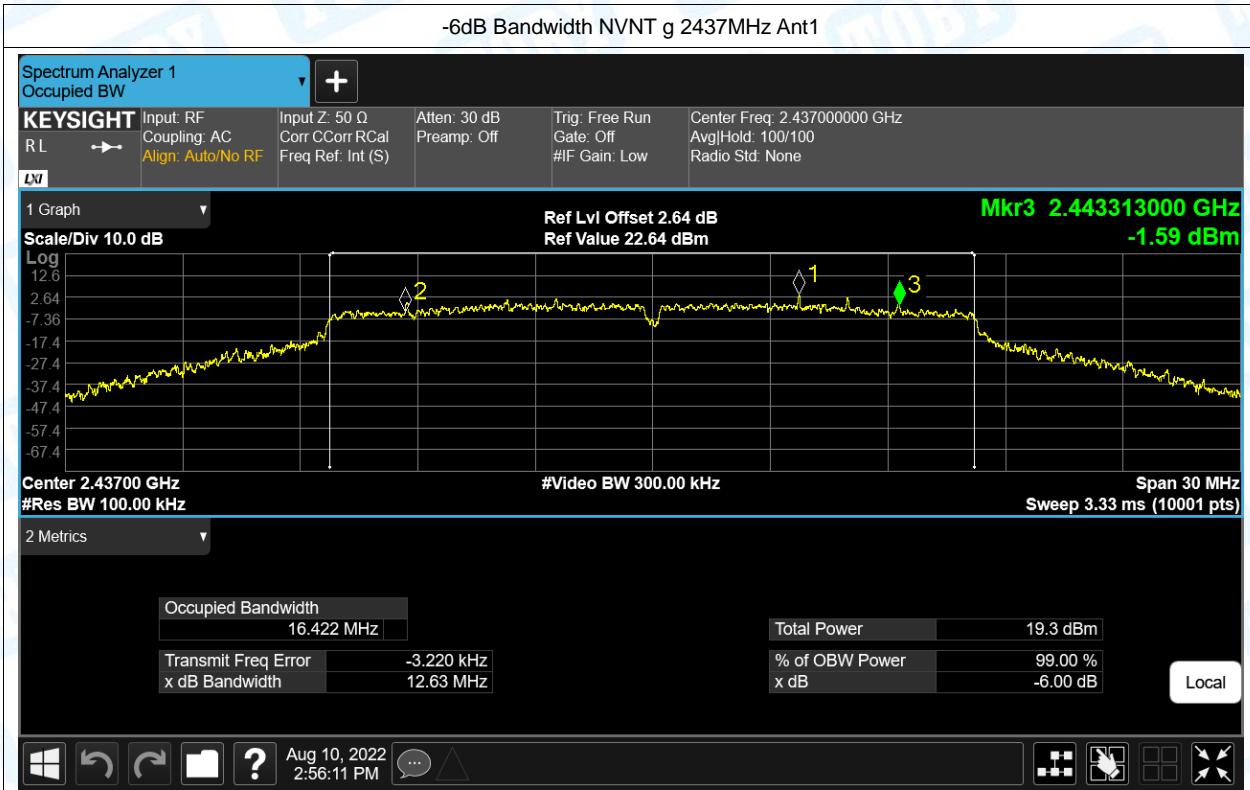
-6dB Bandwidth NVNT b 2412MHz Ant1

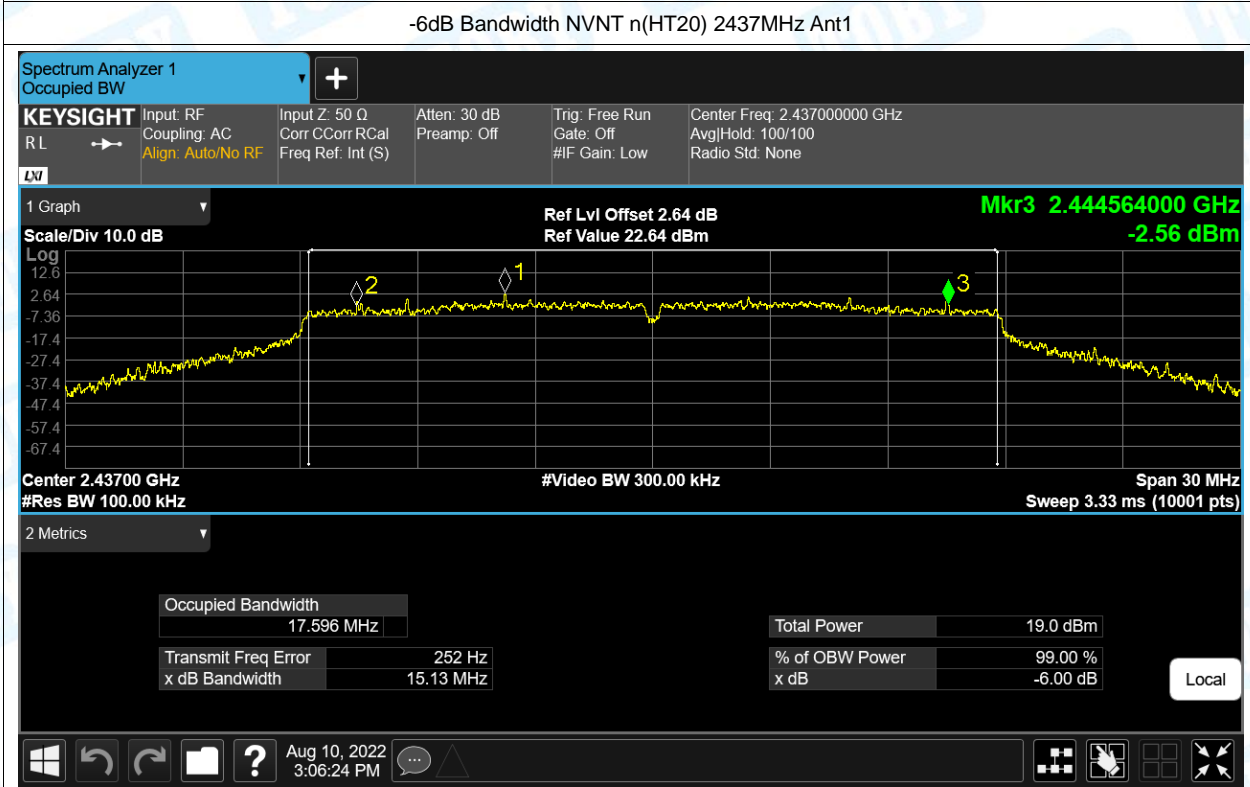
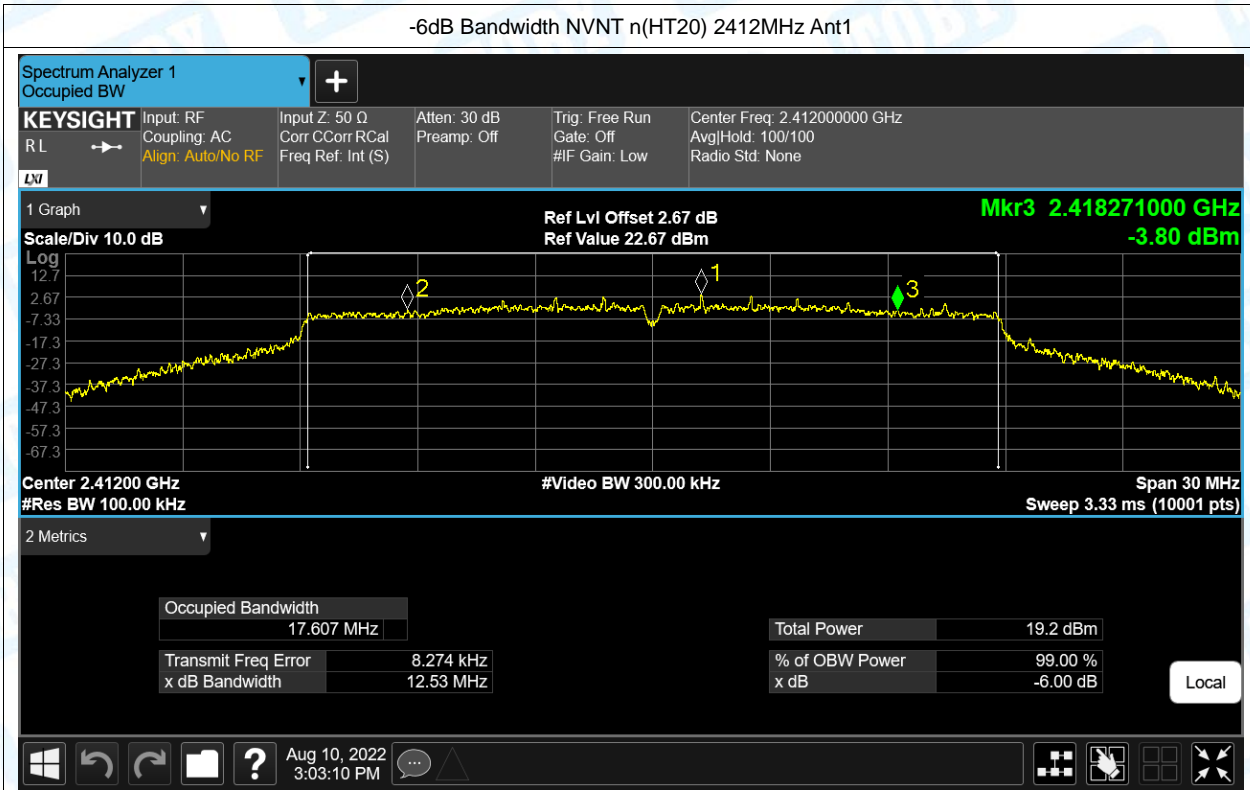


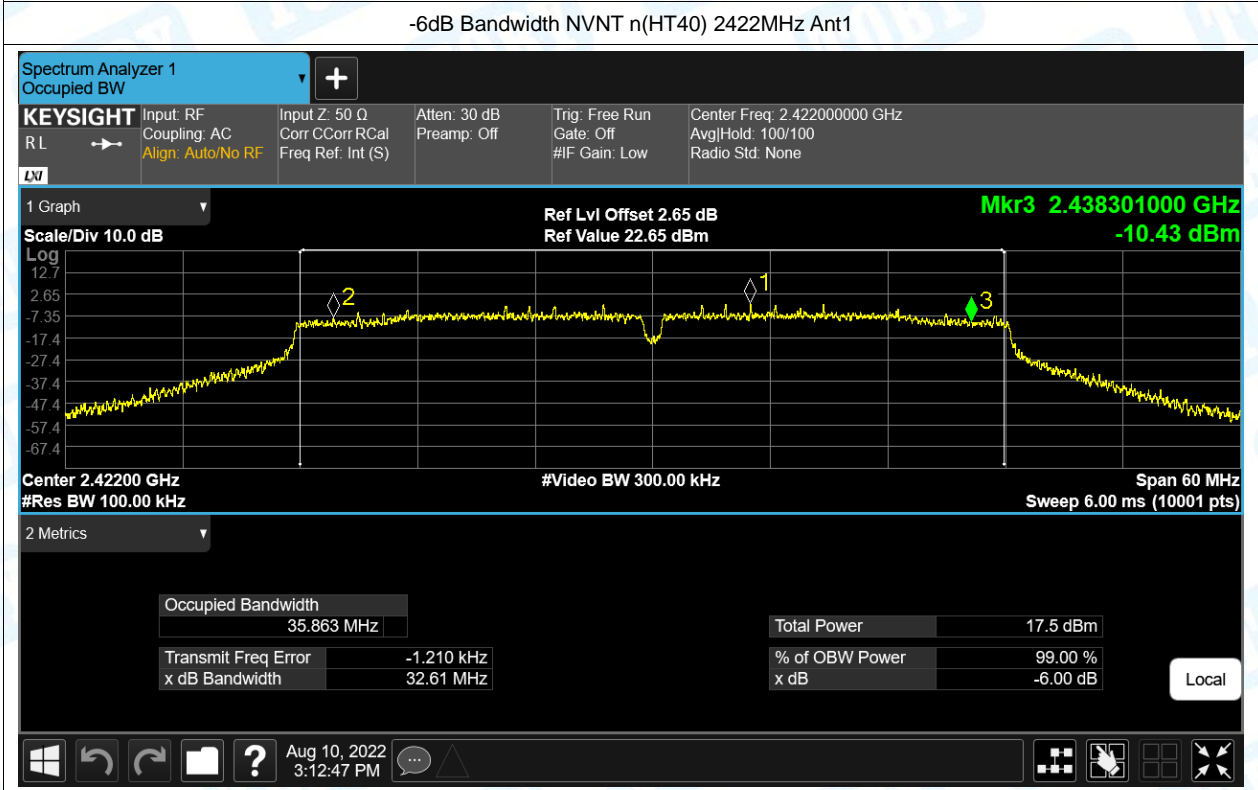
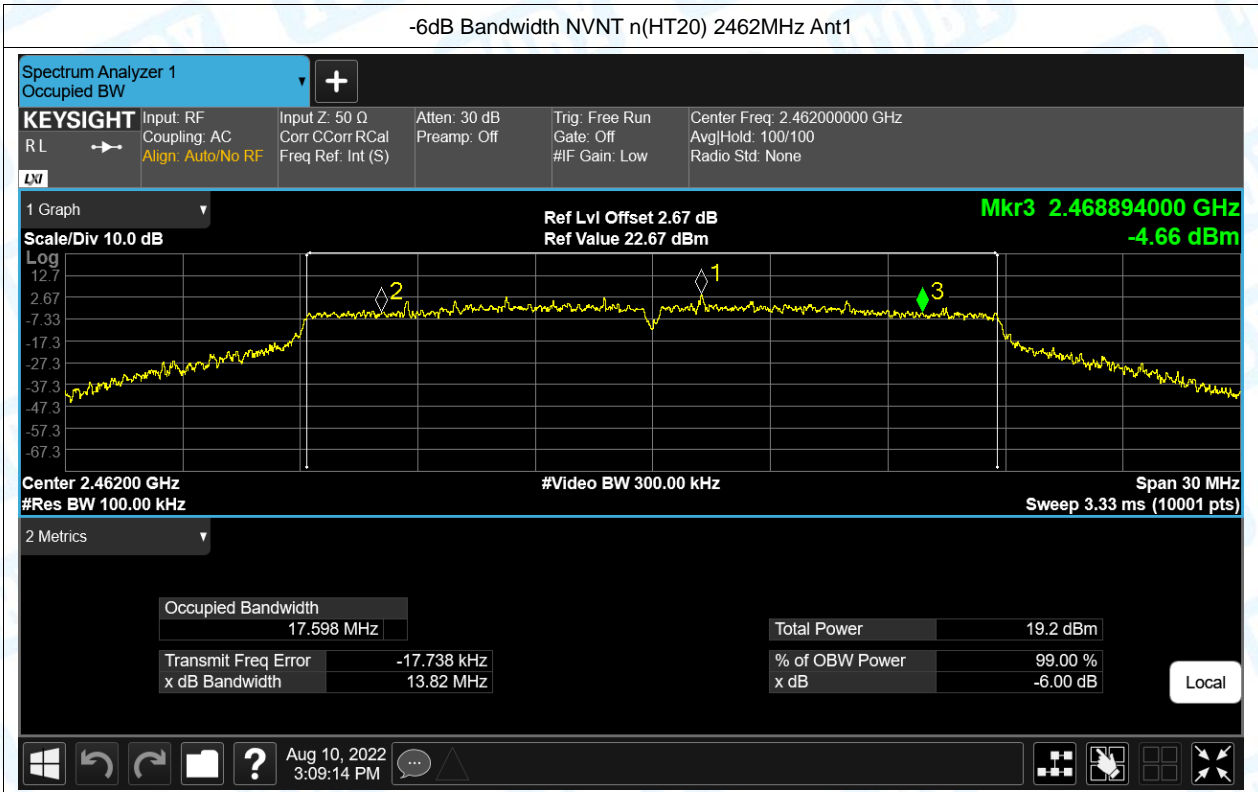
-6dB Bandwidth NVNT b 2437MHz Ant1

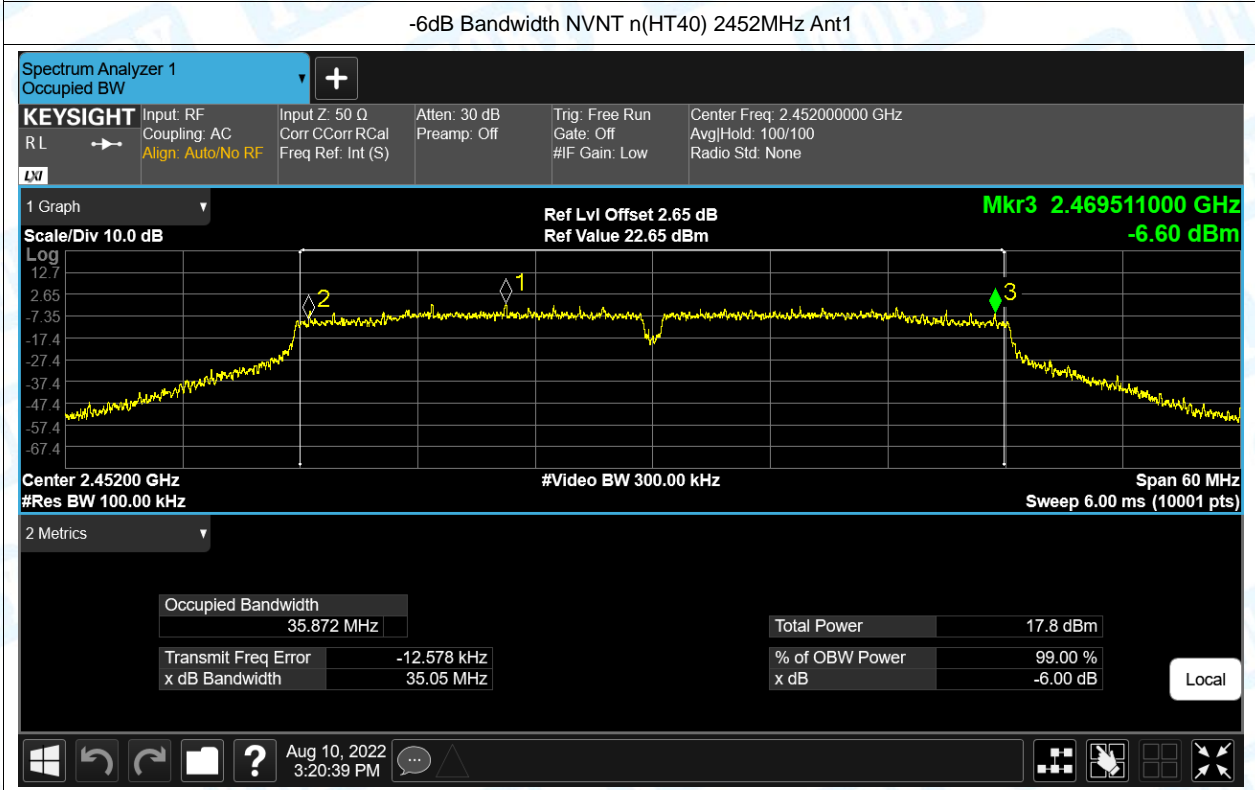
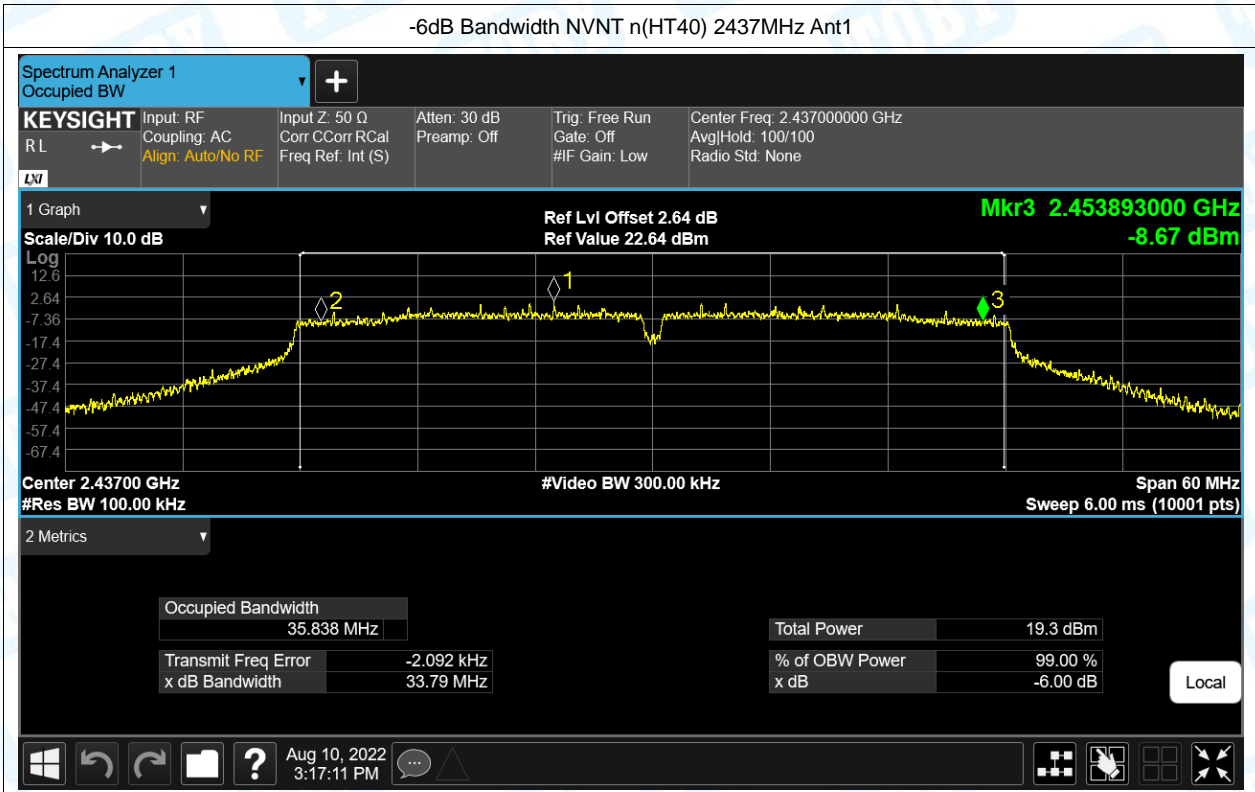










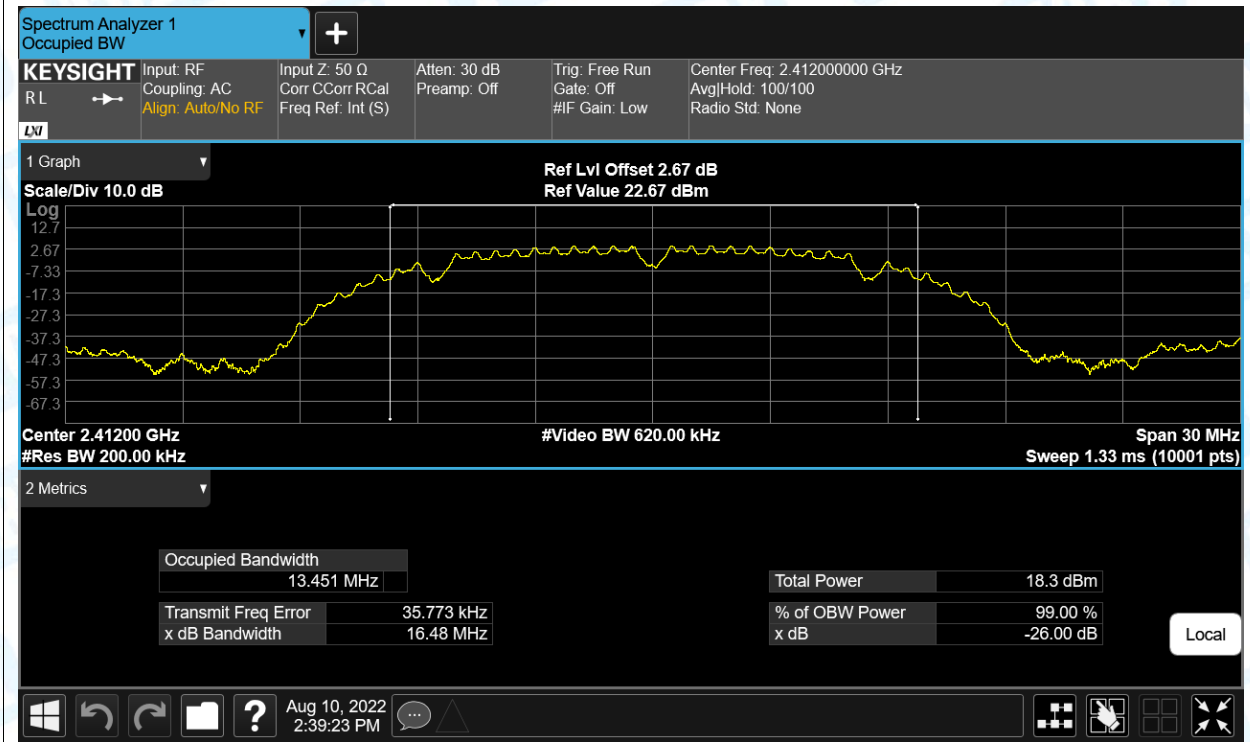


4.Occupied Channel Bandwidth

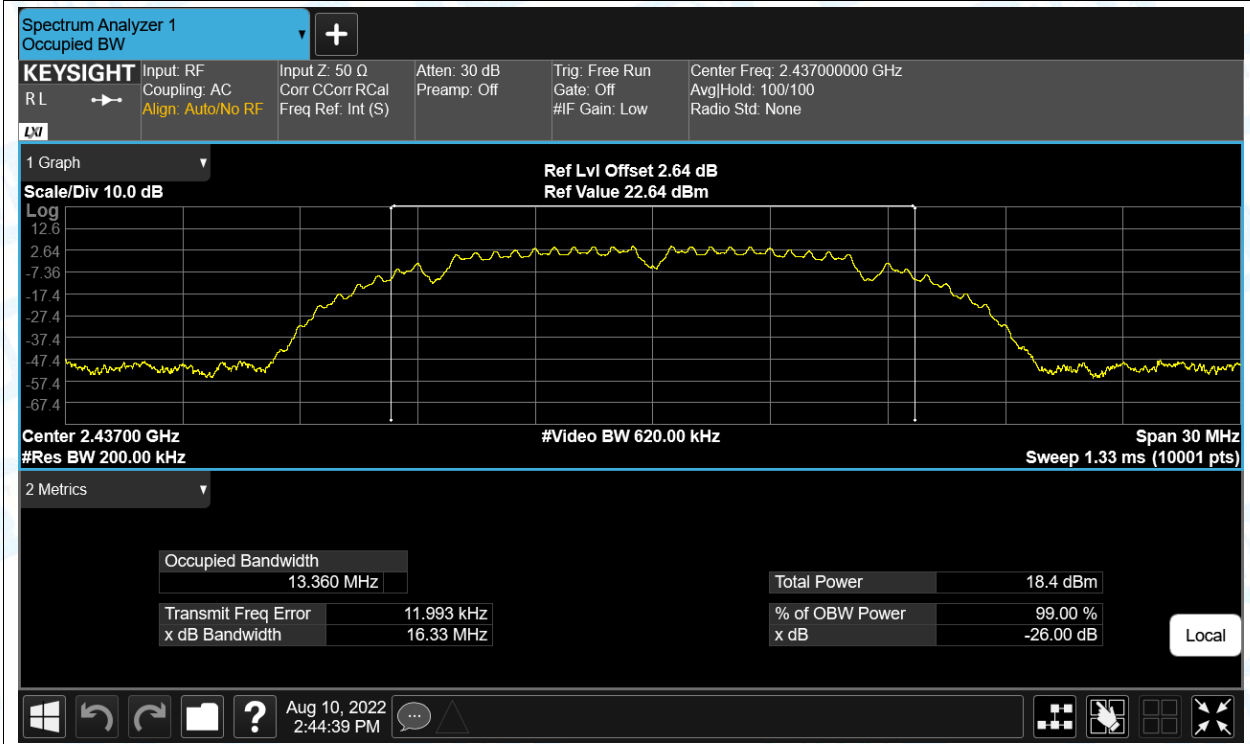
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	b	2412	Ant1	13.451
NVNT	b	2437	Ant1	13.36
NVNT	b	2462	Ant1	13.366
NVNT	g	2412	Ant1	16.54
NVNT	g	2437	Ant1	16.529
NVNT	g	2462	Ant1	16.494
NVNT	n(HT20)	2412	Ant1	17.664
NVNT	n(HT20)	2437	Ant1	17.642
NVNT	n(HT20)	2462	Ant1	17.634
NVNT	n(HT40)	2422	Ant1	35.984
NVNT	n(HT40)	2437	Ant1	35.963
NVNT	n(HT40)	2452	Ant1	35.952

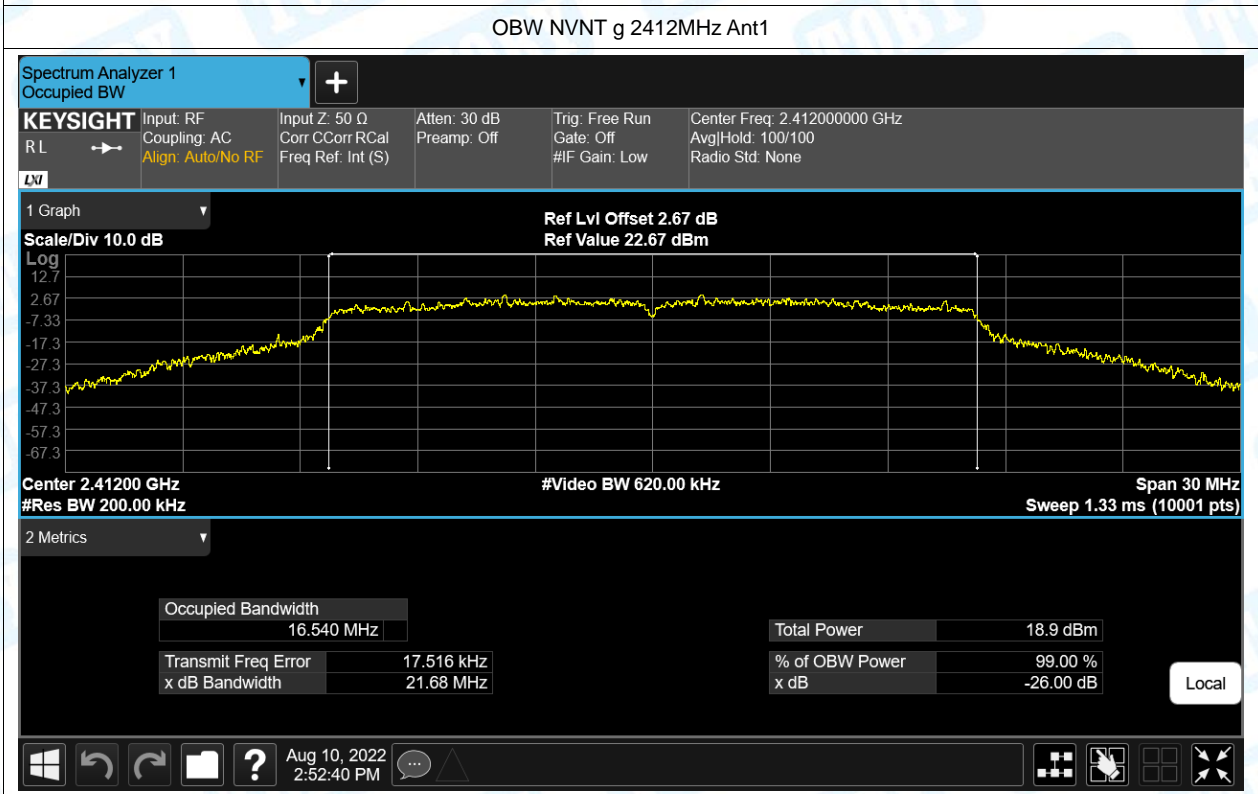
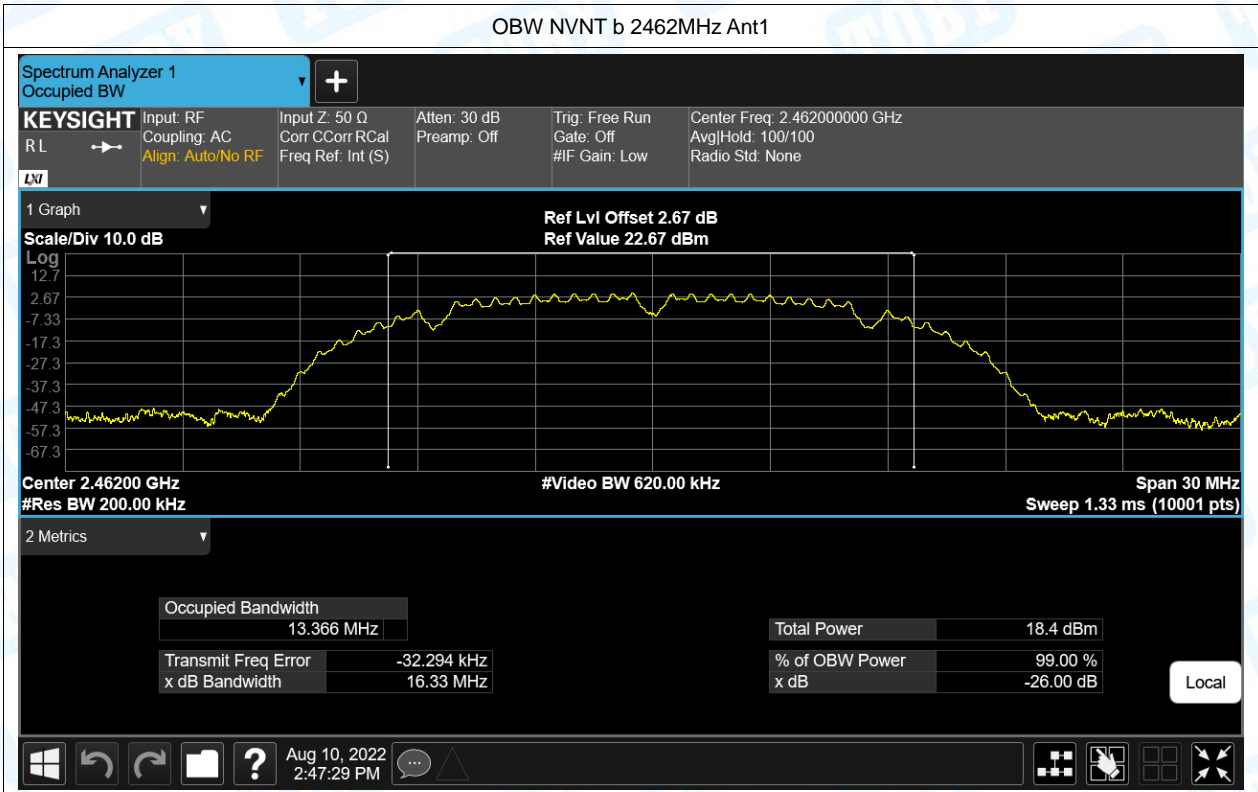
Test Graphs

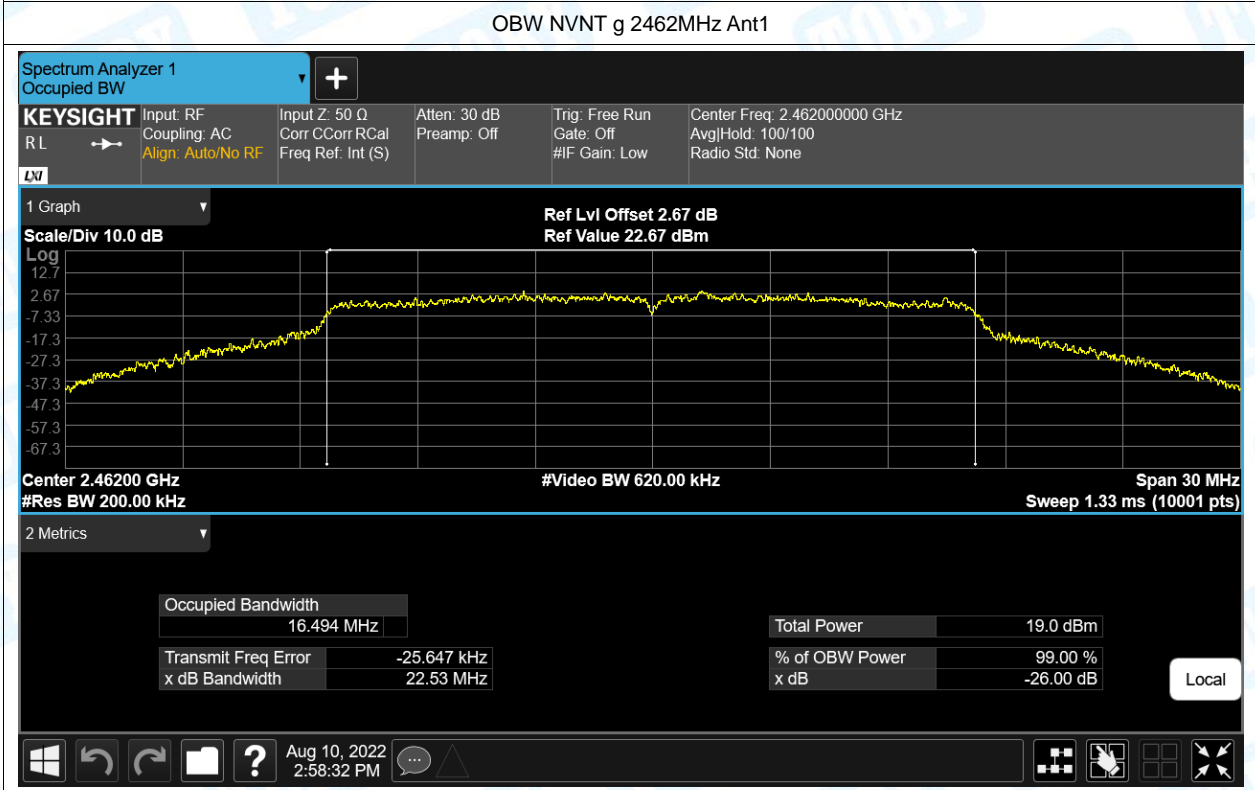
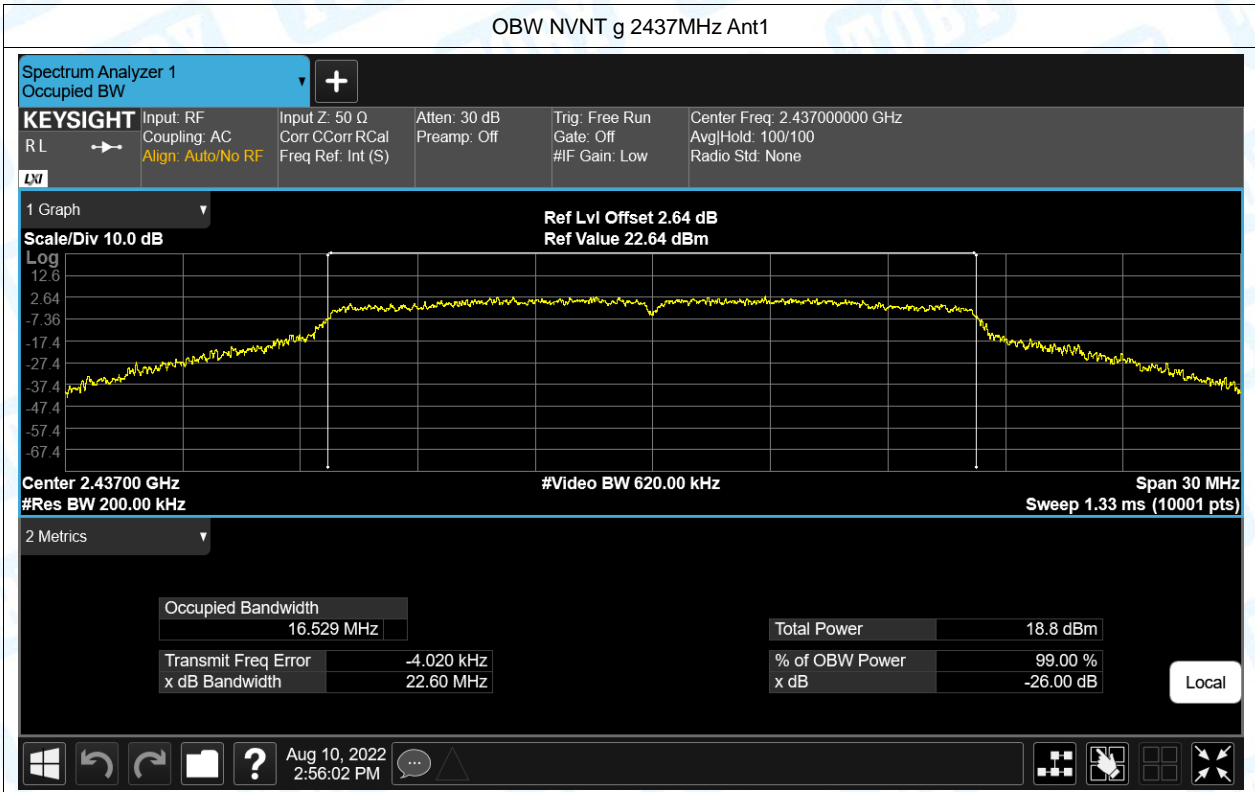
OBW NVNT b 2412MHz Ant1

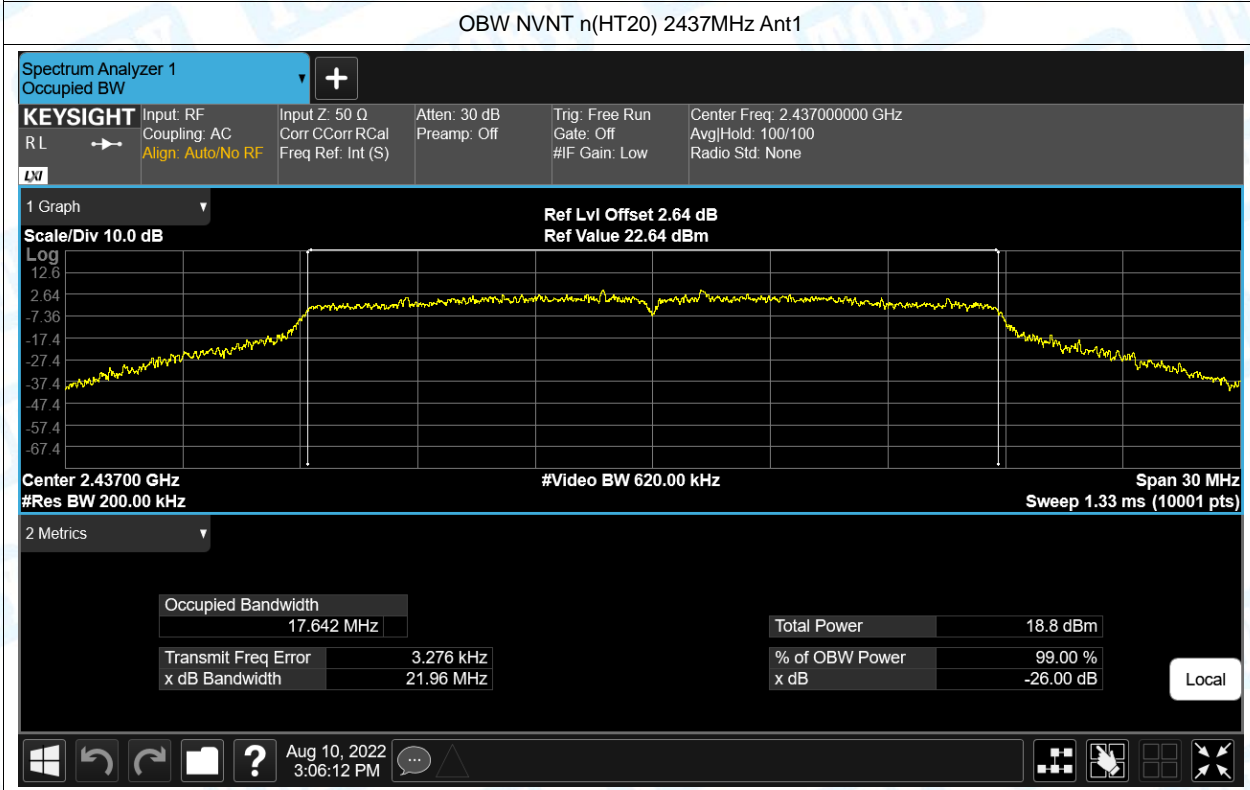
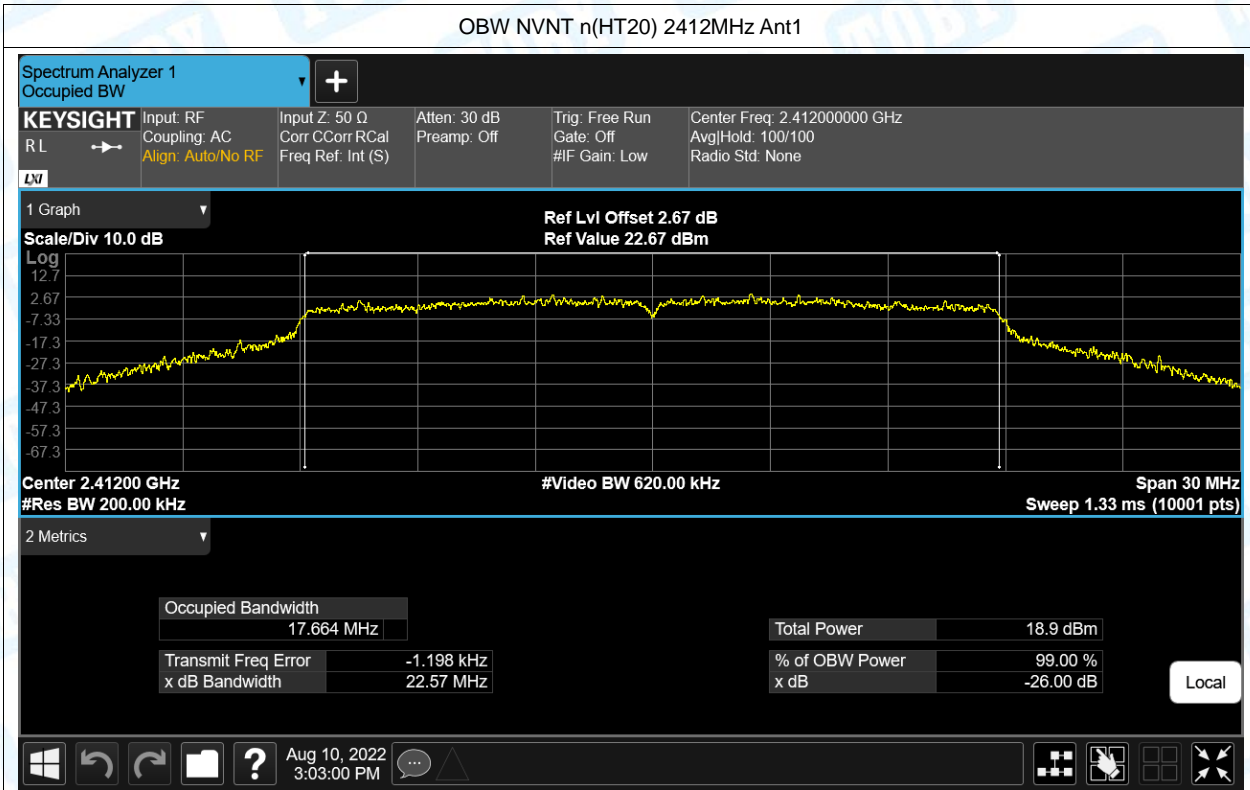


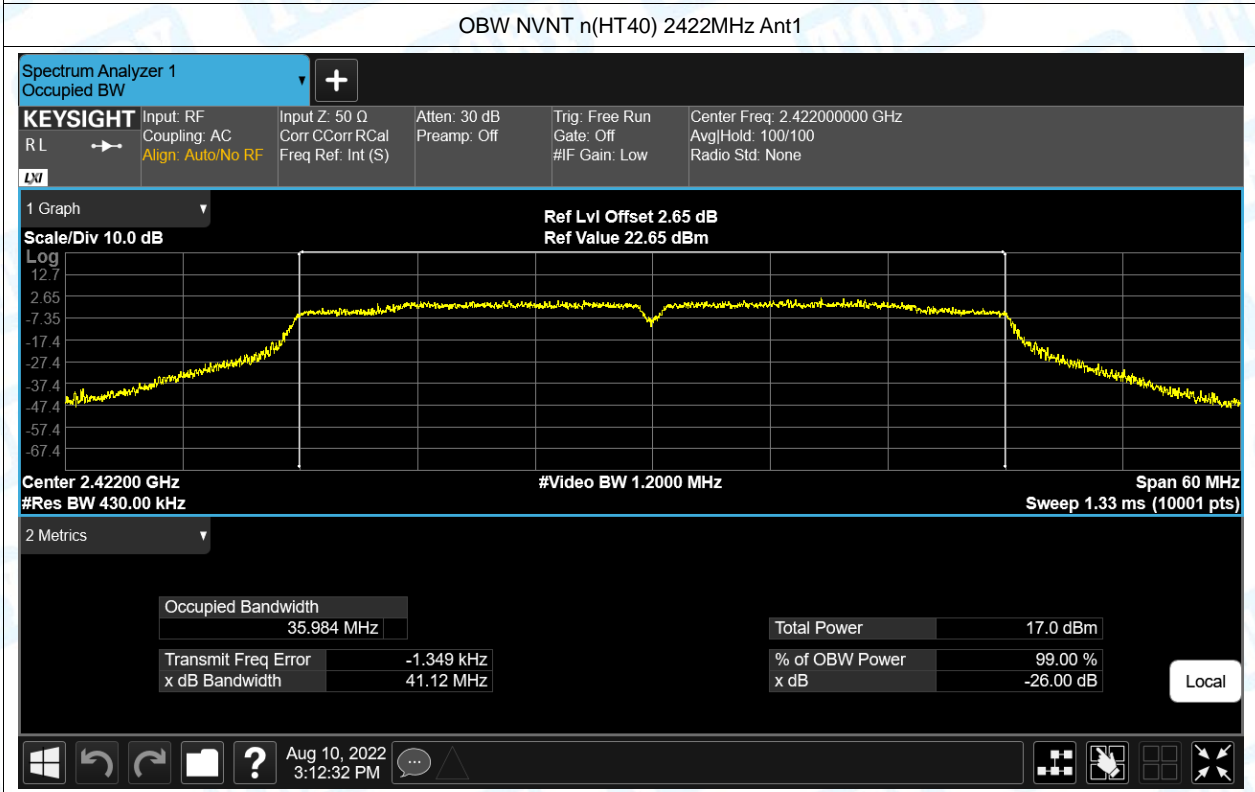
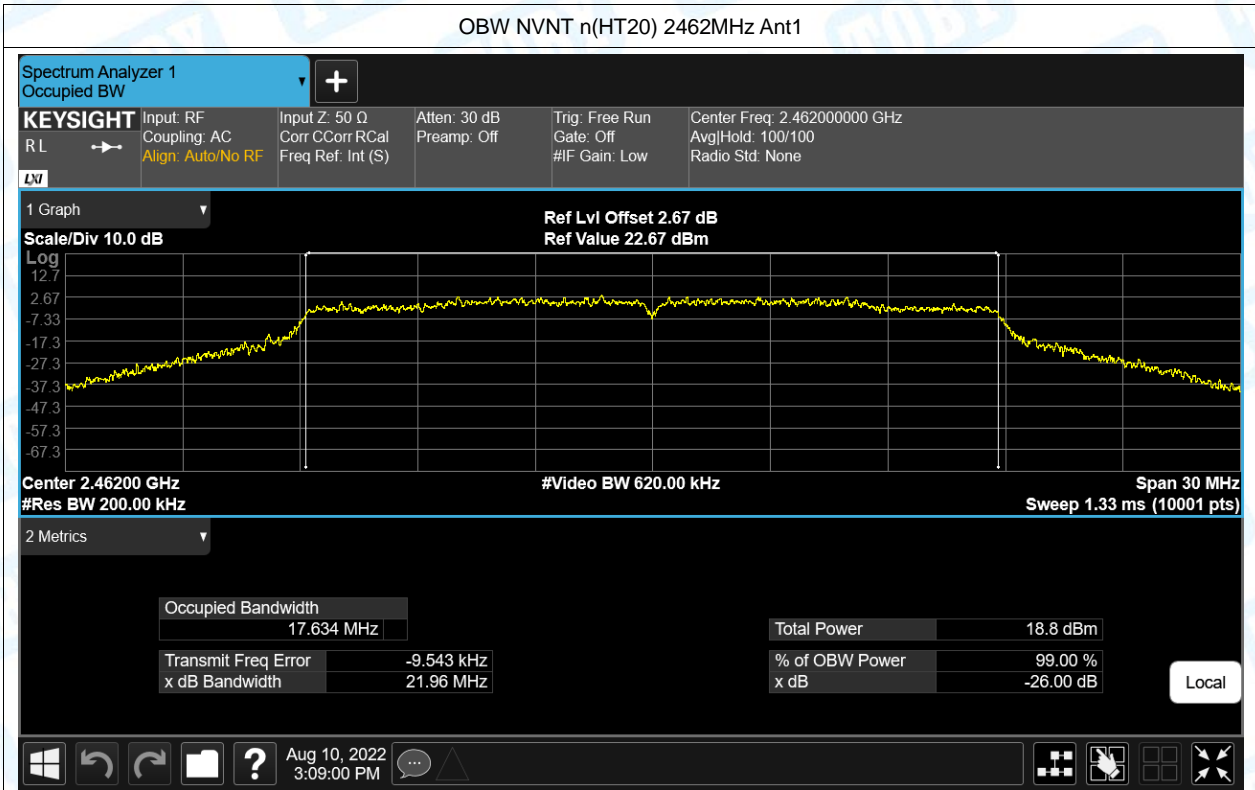
OBW NVNT b 2437MHz Ant1

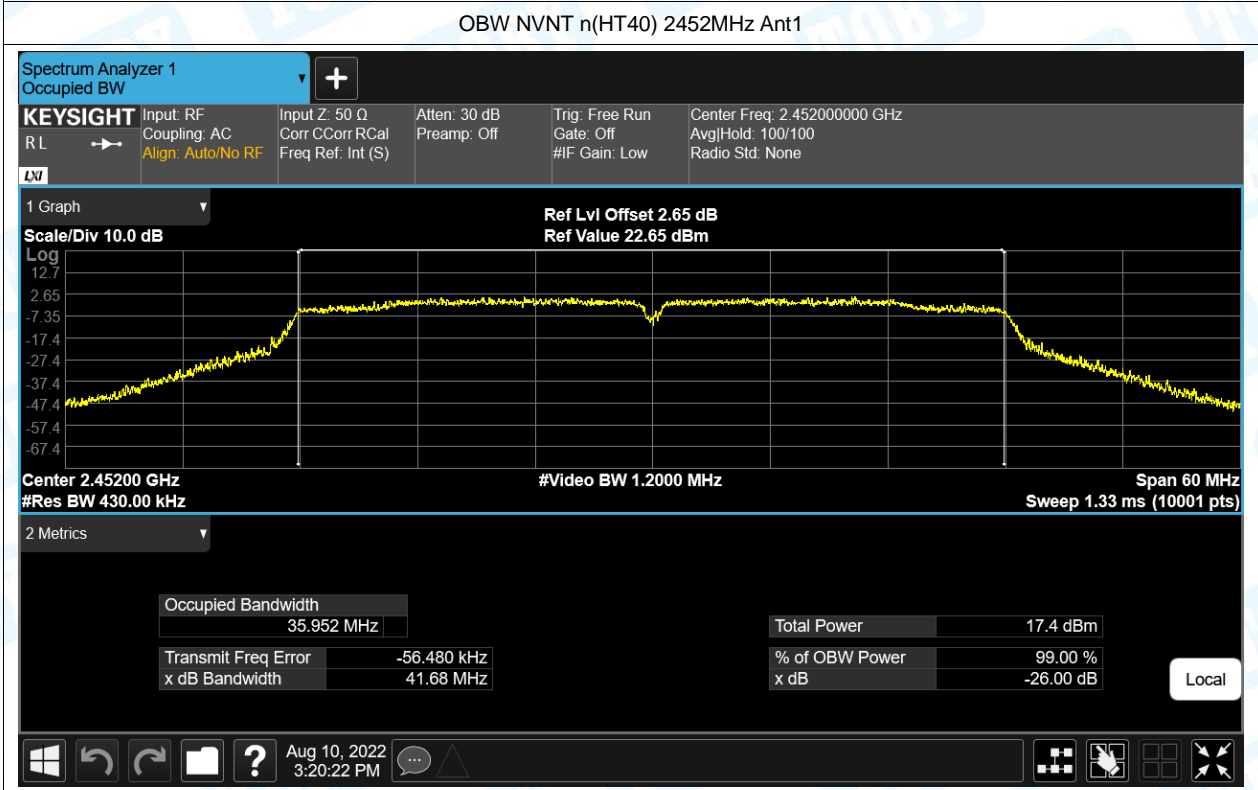
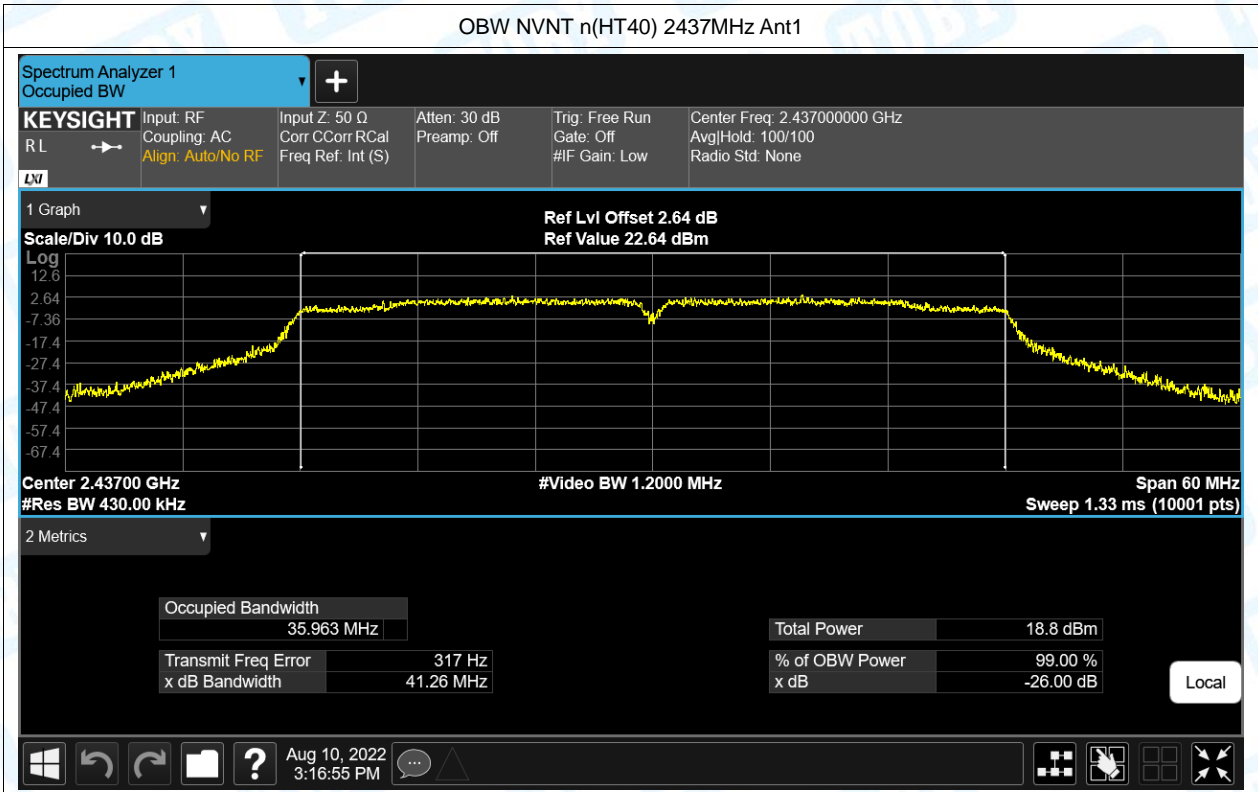










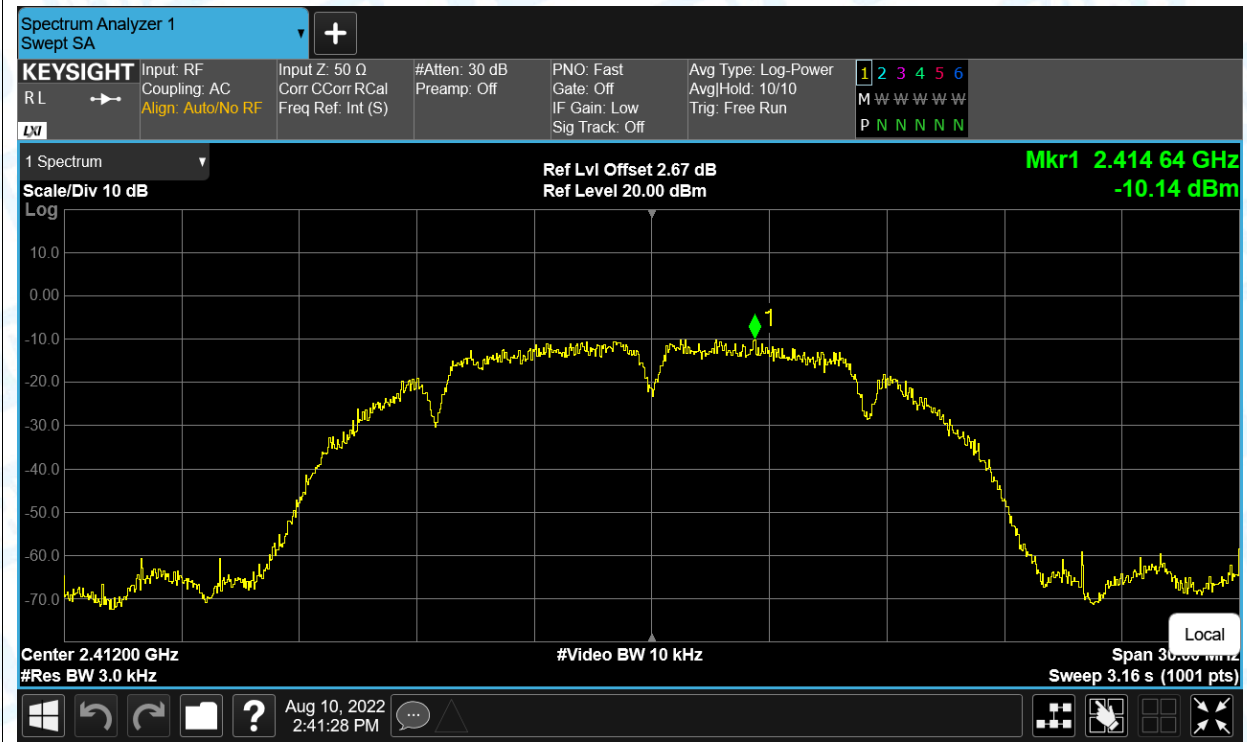


5. Maximum Power Spectral Density Level

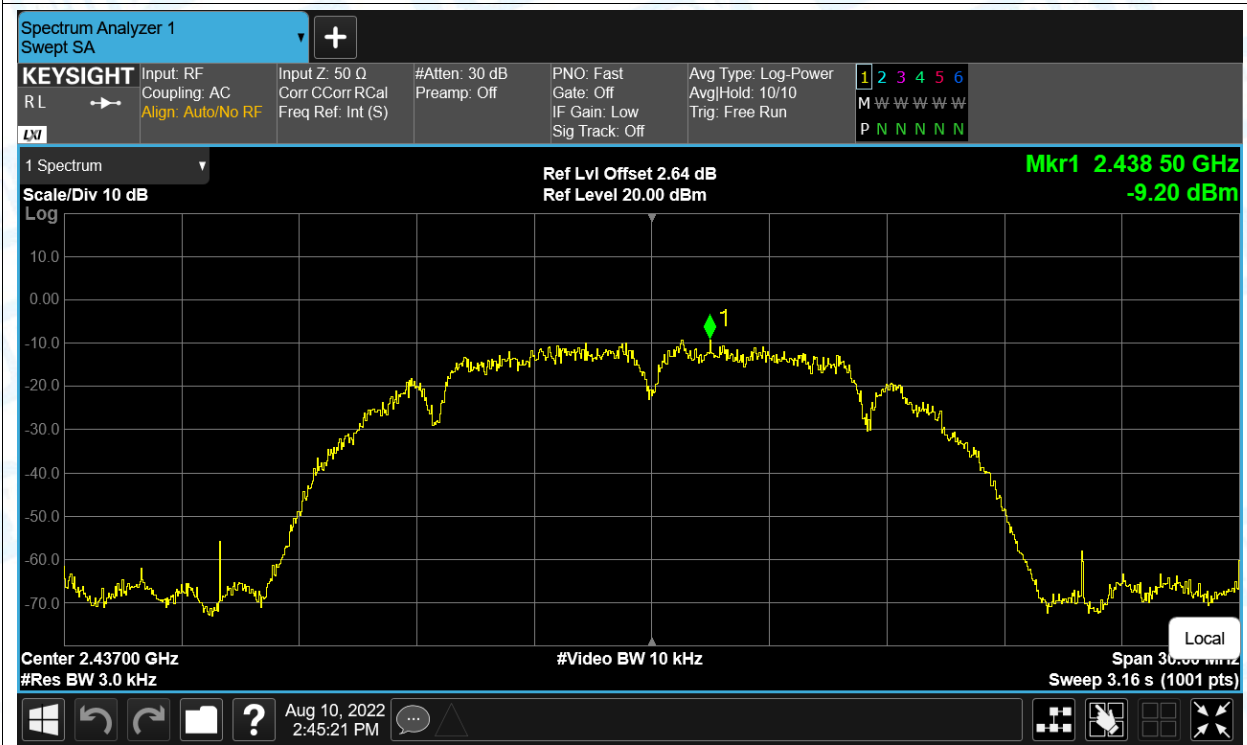
Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	-10.136	8	Pass
NVNT	b	2437	Ant1	-9.201	8	Pass
NVNT	b	2462	Ant1	-8.998	8	Pass
NVNT	g	2412	Ant1	-11.019	8	Pass
NVNT	g	2437	Ant1	-10.681	8	Pass
NVNT	g	2462	Ant1	-10.86	8	Pass
NVNT	n(HT20)	2412	Ant1	-10.735	8	Pass
NVNT	n(HT20)	2437	Ant1	-11.706	8	Pass
NVNT	n(HT20)	2462	Ant1	-11.009	8	Pass
NVNT	n(HT40)	2422	Ant1	-16.924	8	Pass
NVNT	n(HT40)	2437	Ant1	-14.548	8	Pass
NVNT	n(HT40)	2452	Ant1	-16.229	8	Pass

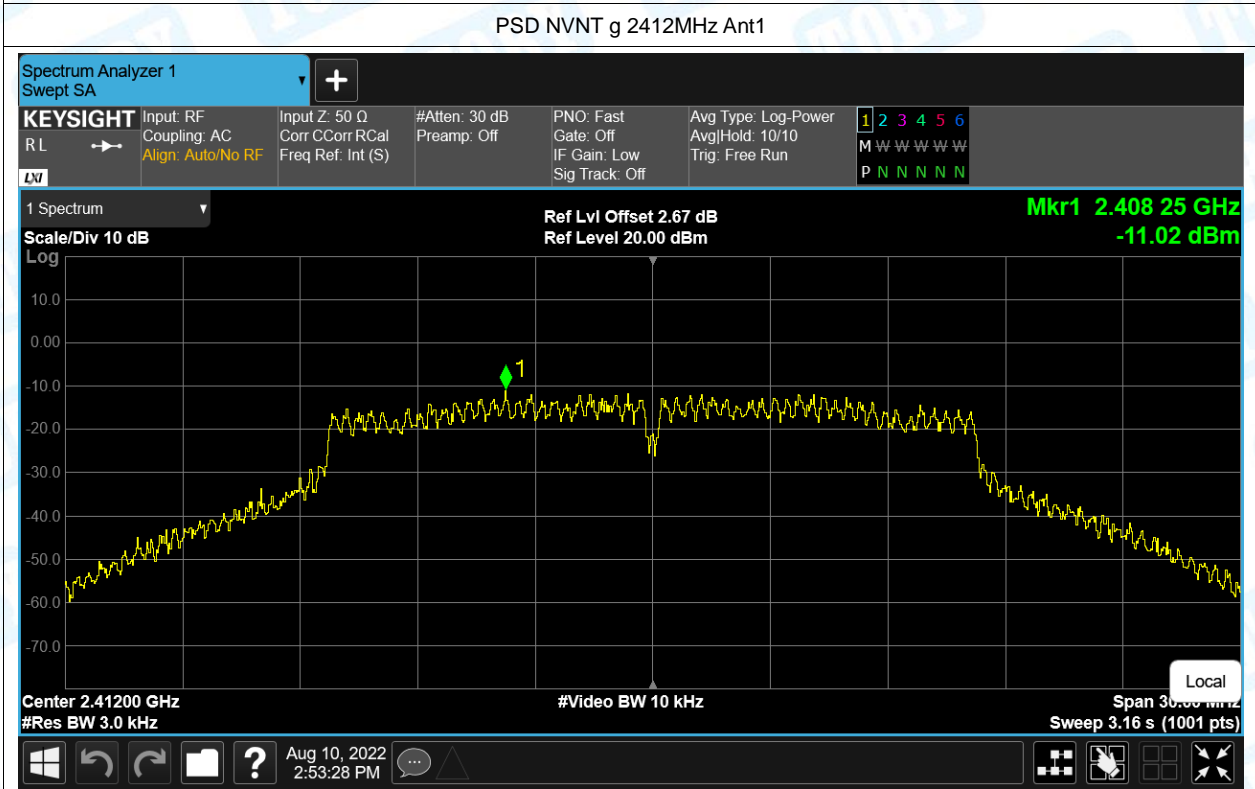
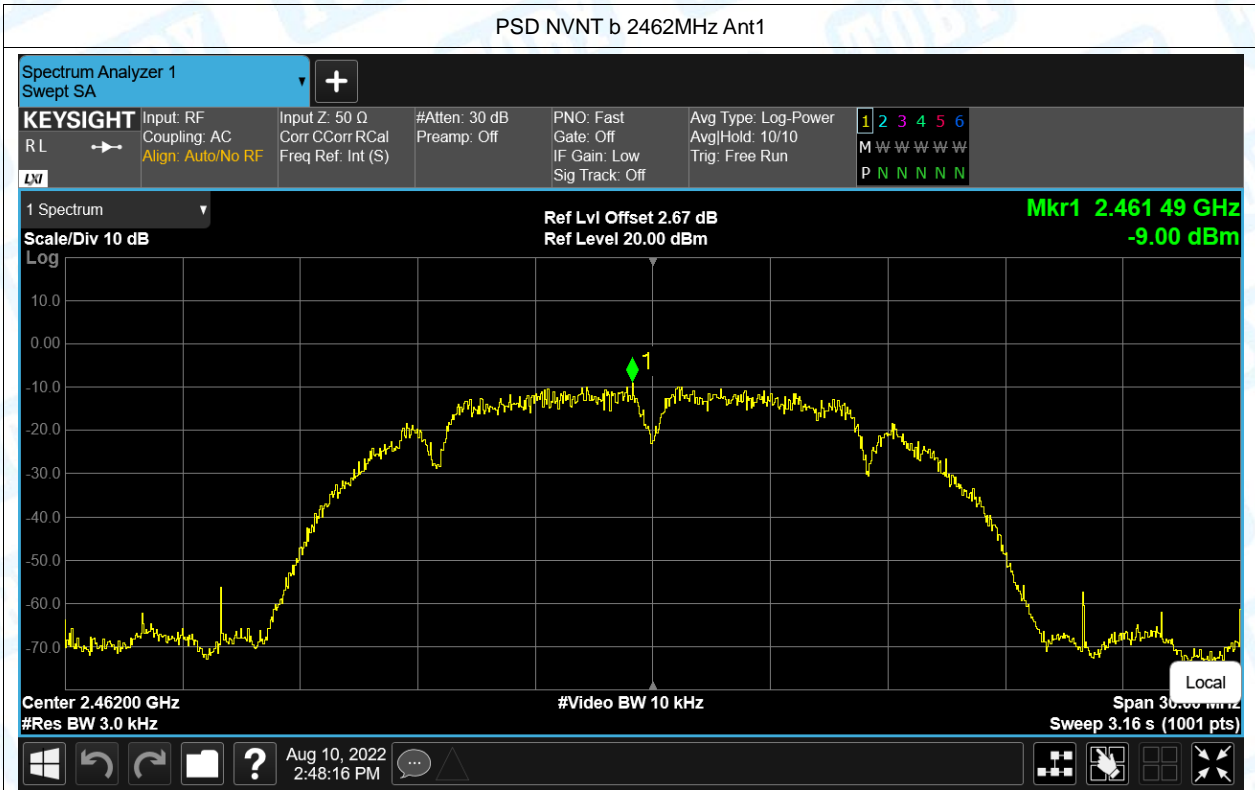
Test Graphs

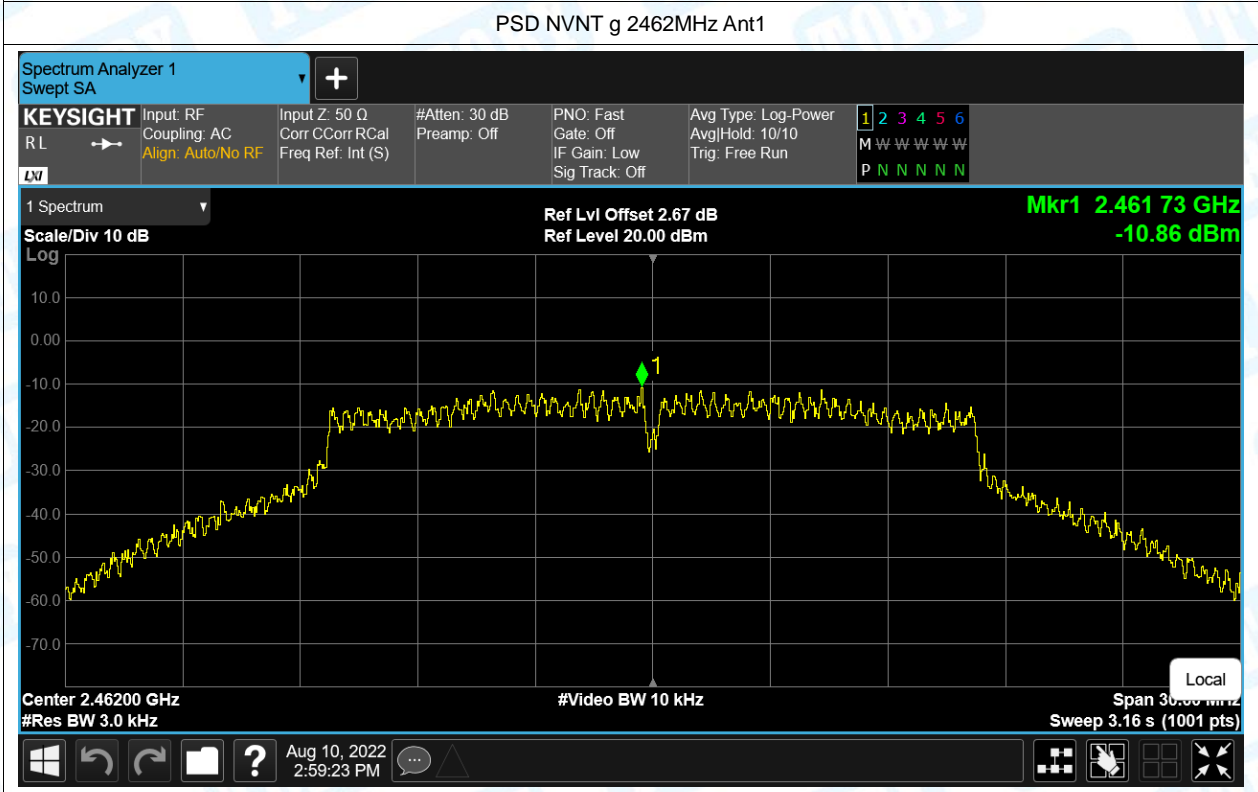
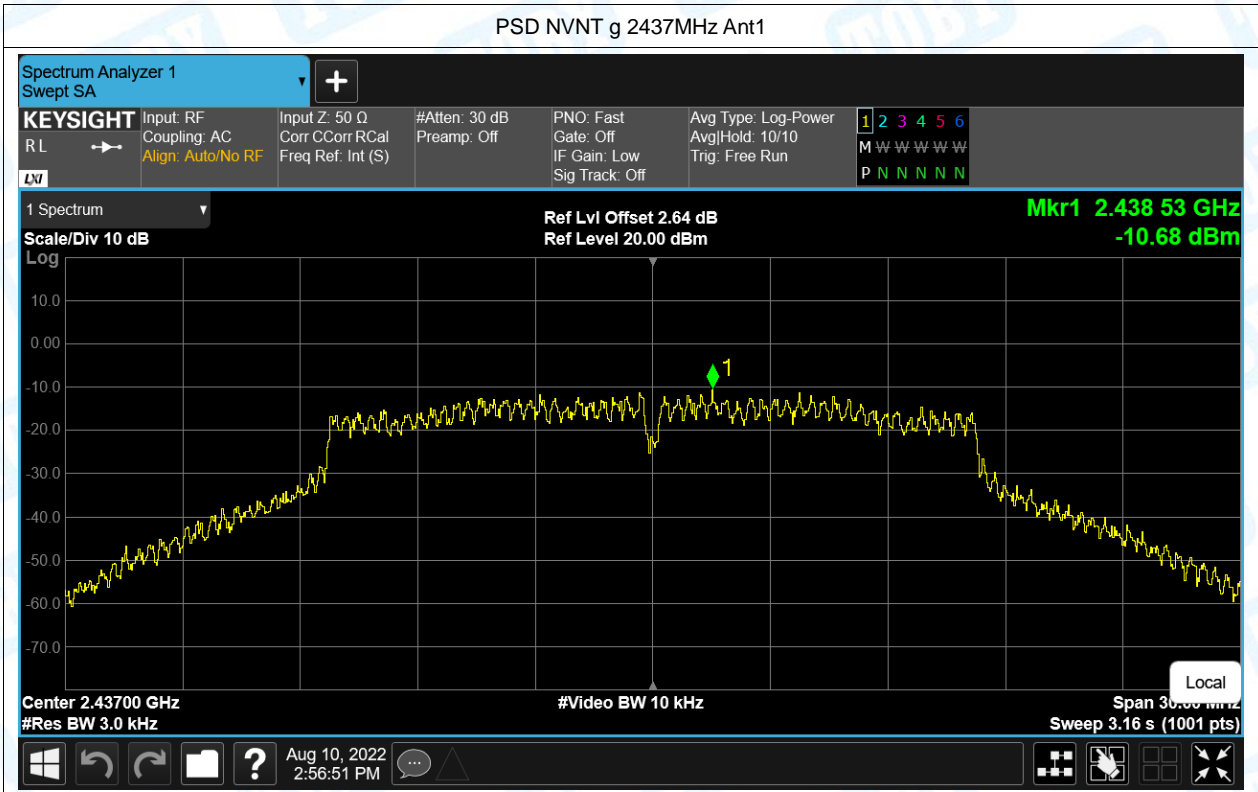
PSD NVNT b 2412MHz Ant1

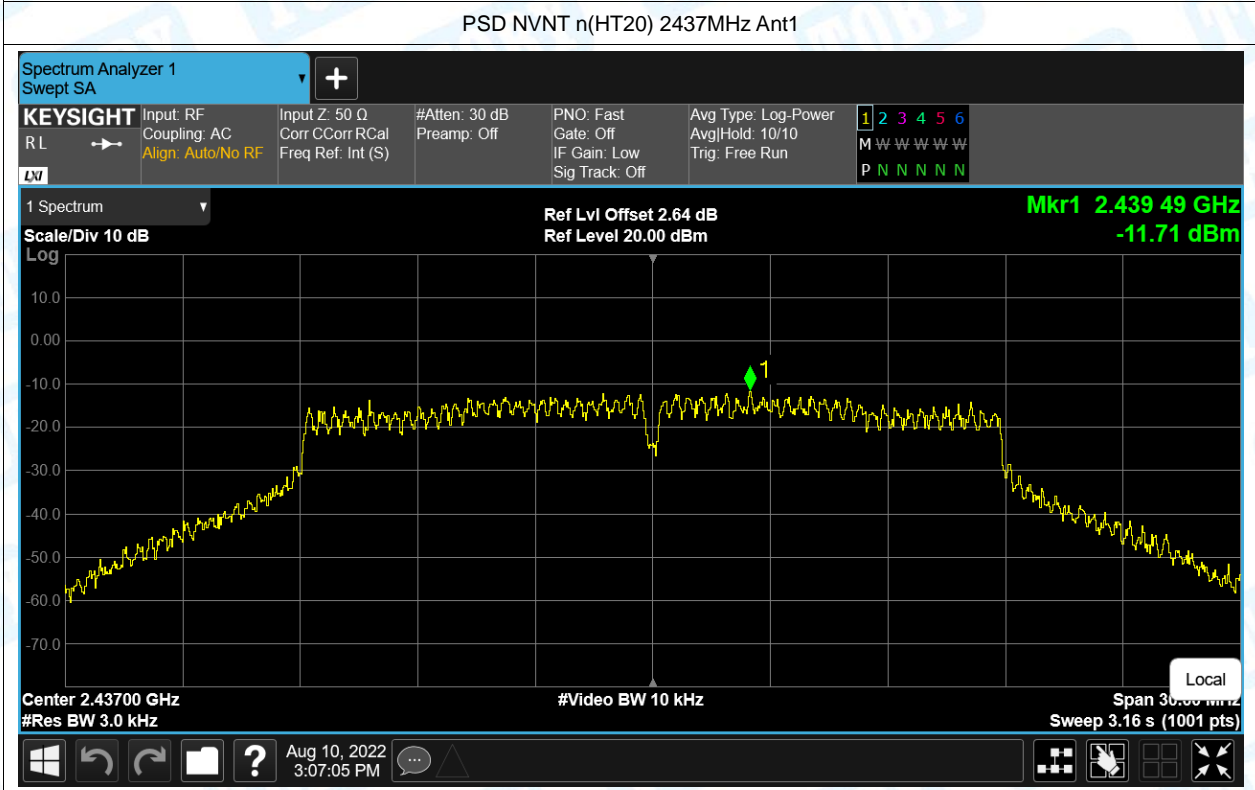
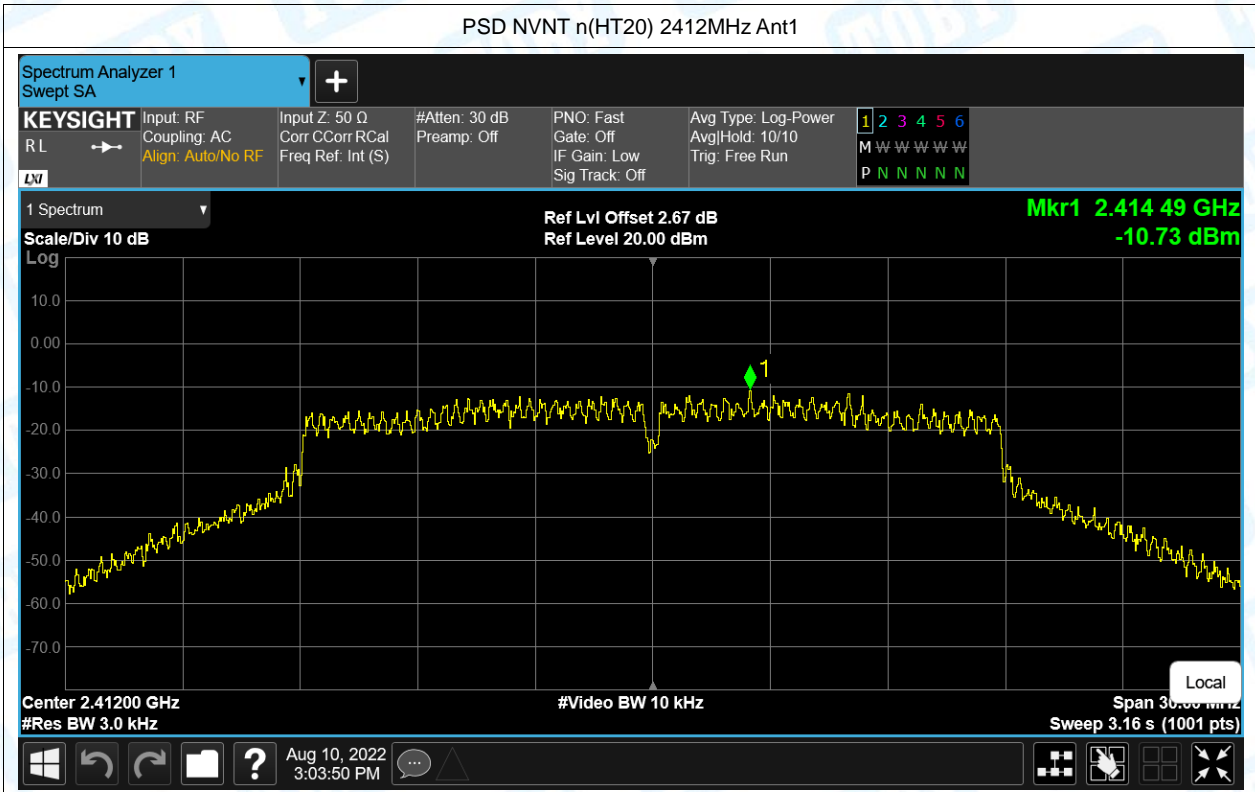


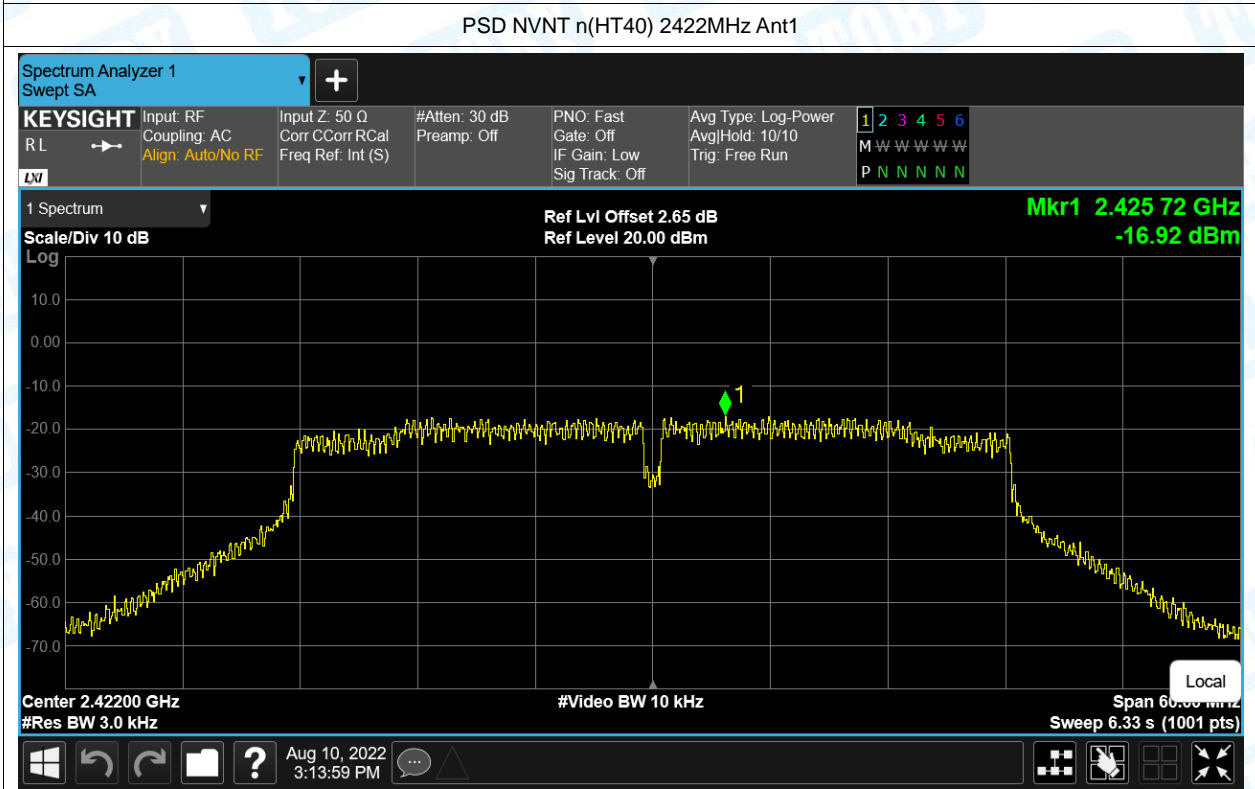
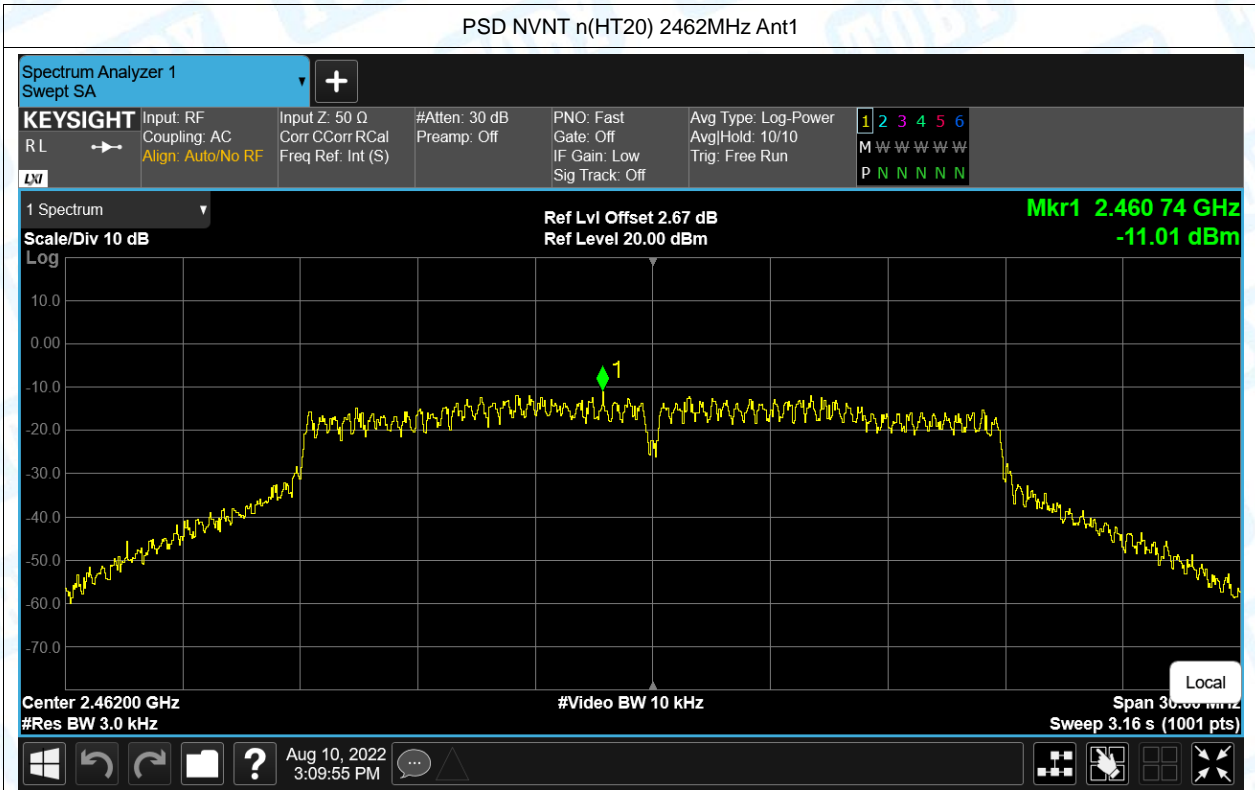
PSD NVNT b 2437MHz Ant1

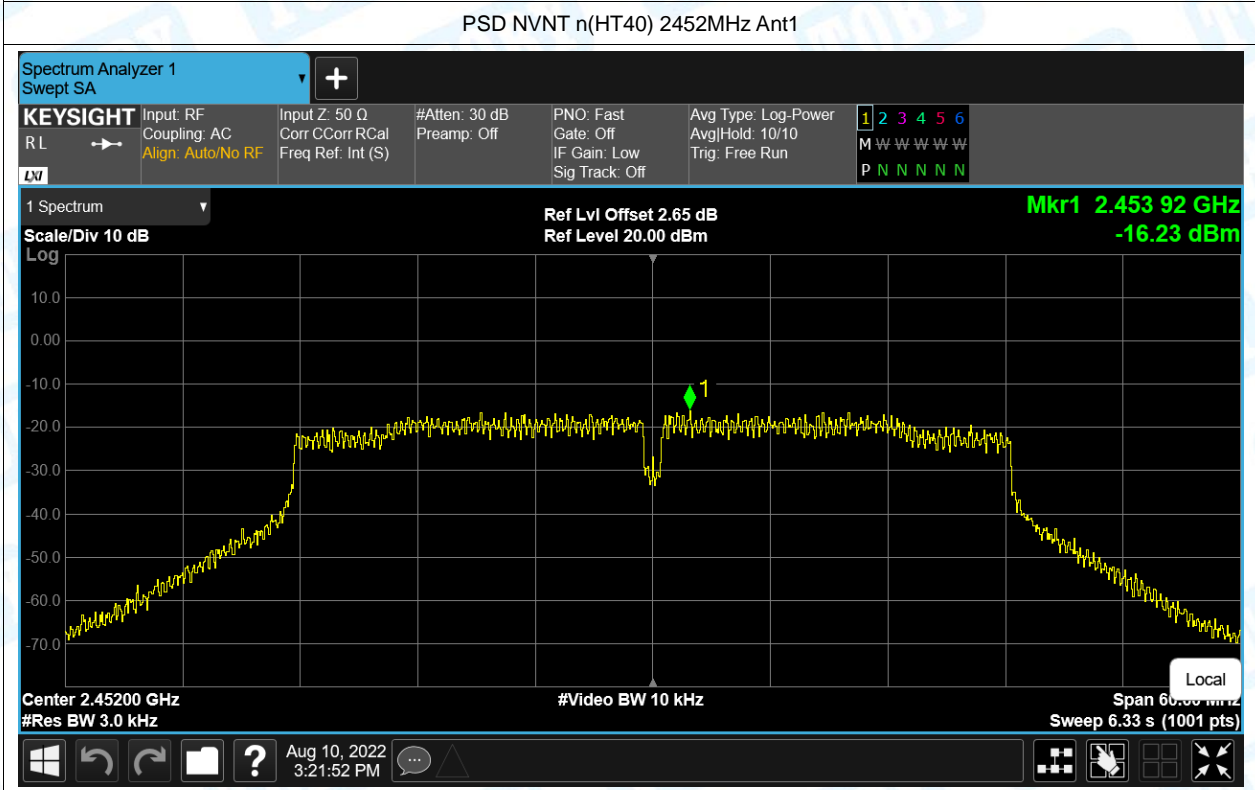
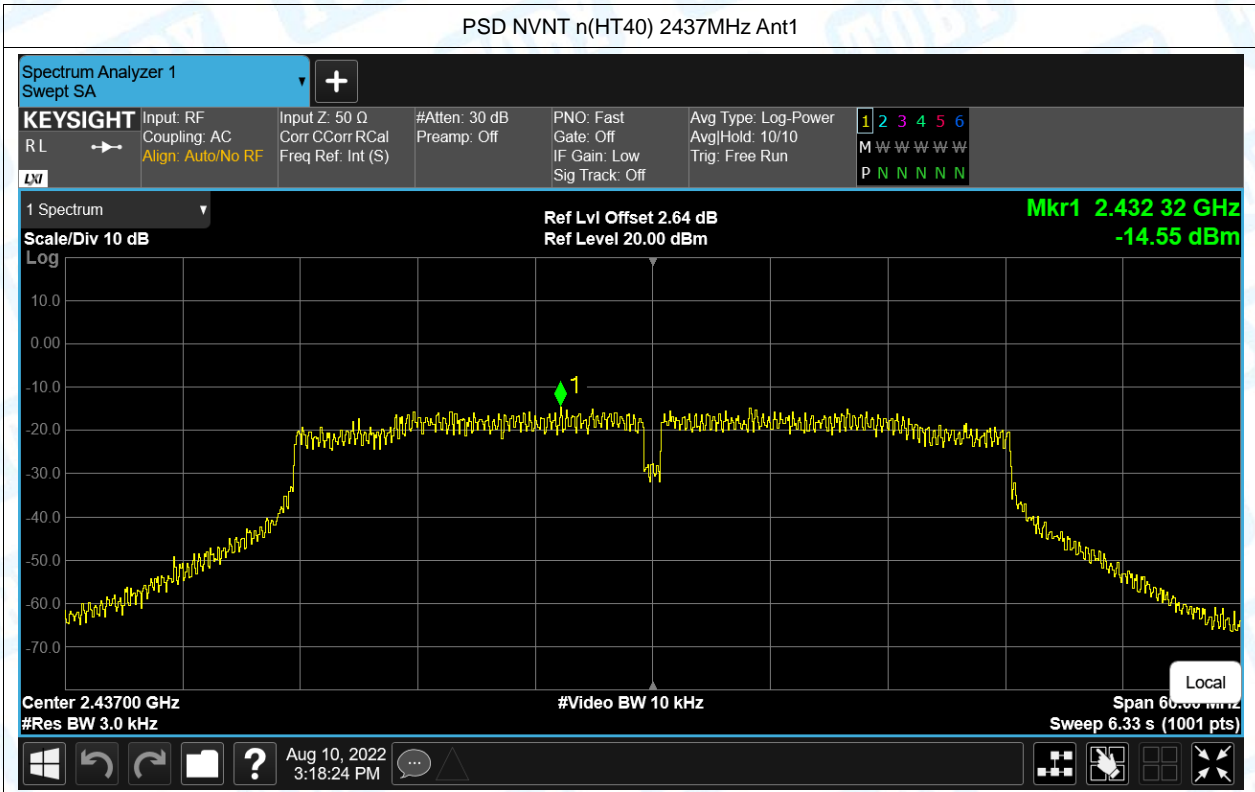










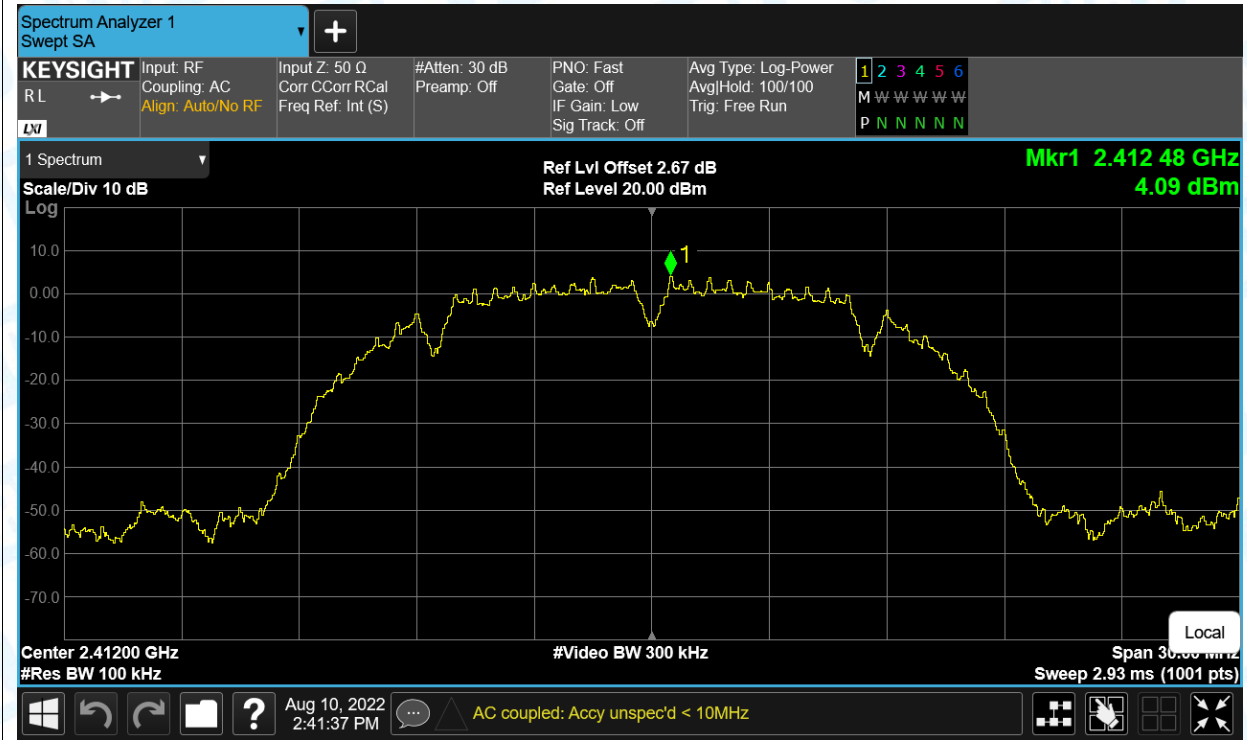


6.Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-58.85	-20	Pass
NVNT	b	2462	Ant1	-59.52	-20	Pass
NVNT	g	2412	Ant1	-56.72	-20	Pass
NVNT	g	2462	Ant1	-56.33	-20	Pass
NVNT	n(HT20)	2412	Ant1	-56.44	-20	Pass
NVNT	n(HT20)	2462	Ant1	-56.93	-20	Pass
NVNT	n(HT40)	2422	Ant1	-46.28	-20	Pass
NVNT	n(HT40)	2452	Ant1	-50.46	-20	Pass

Test Graphs

Band Edge NVNT b 2412MHz Ant1 Ref



Band Edge NVNT b 2412MHz Ant1 Emission

