

RF Test Data for 2.4G WiFi (Conducted Measurements)

General Description of EUT	
Product Name:	Projector
Test Model:	M9
Sample ID:	202207-0331-5-2#
Environmental Conditions	
Temperature:	25°C
Relative Humidity:	55%
Test Voltage:	AC 120V
Test Engineer:	Huang jian ping
Note: For a more detailed features description, please refer to the report TBR-C-202207-0331-82	

Contents

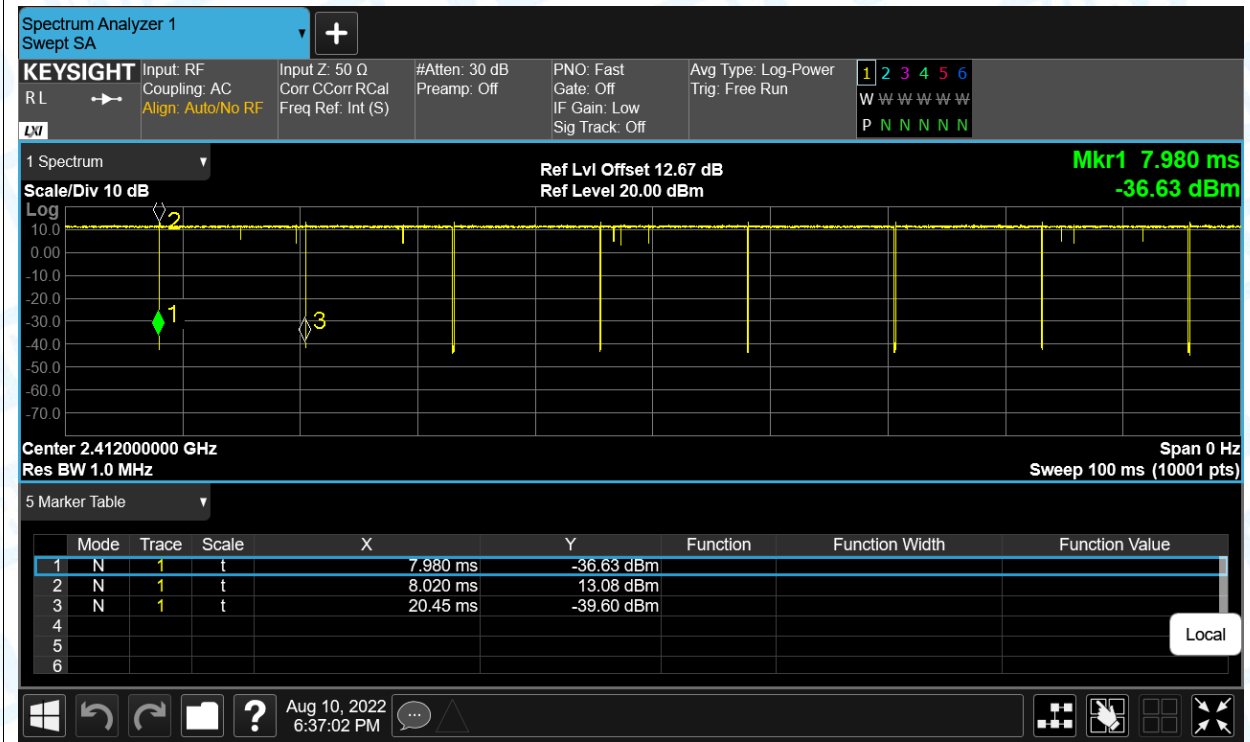
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1. Duty Cycle

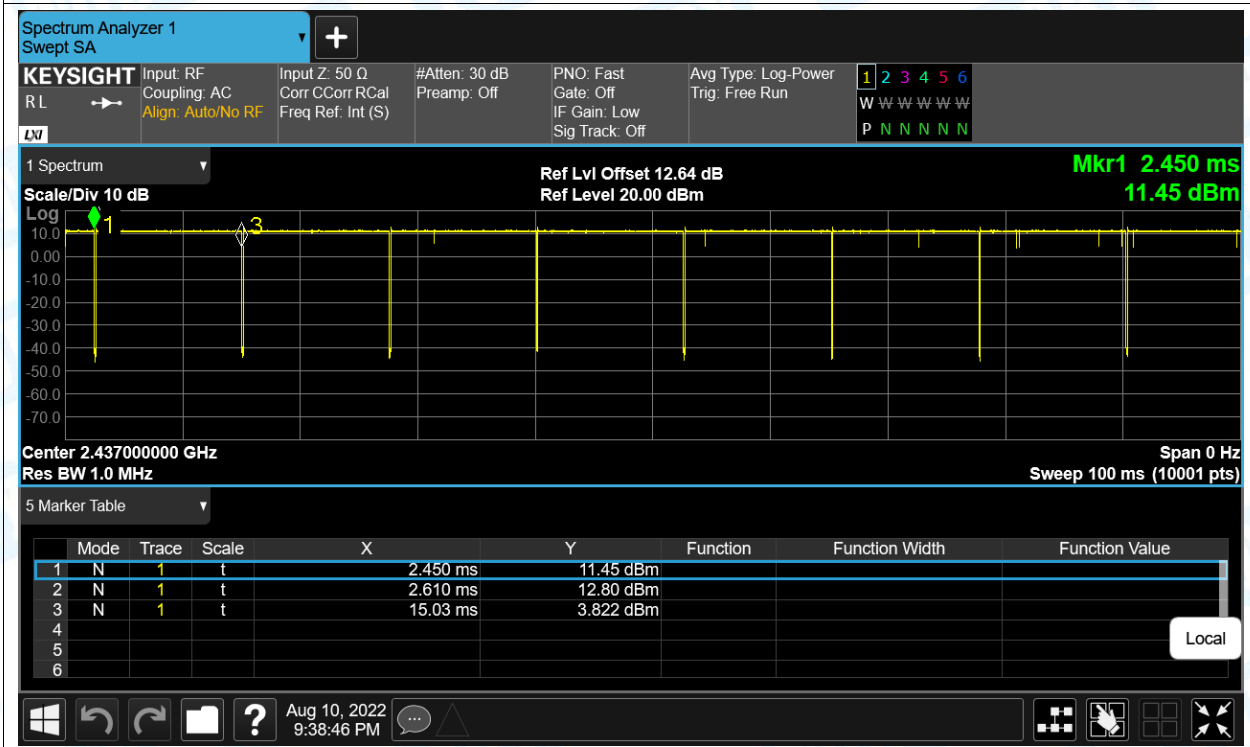
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	Ant1	99.42	0.03	0.08
NVNT	b	2437	Ant1	99.17	0.04	0.08
NVNT	b	2462	Ant1	99.32	0.03	0.08
NVNT	g	2412	Ant1	94.04	0.27	0.48
NVNT	g	2437	Ant1	96.03	0.18	0.48
NVNT	g	2462	Ant1	95.66	0.19	100
NVNT	n(HT20)	2412	Ant1	94.34	0.25	100
NVNT	n(HT20)	2437	Ant1	95.85	0.18	0.52
NVNT	n(HT20)	2462	Ant1	95.84	0.18	100
NVNT	n(HT40)	2422	Ant1	91.88	0.37	1.04
NVNT	n(HT40)	2437	Ant1	92.31	0.35	100
NVNT	n(HT40)	2452	Ant1	92.64	0.33	1.05

Test Graphs

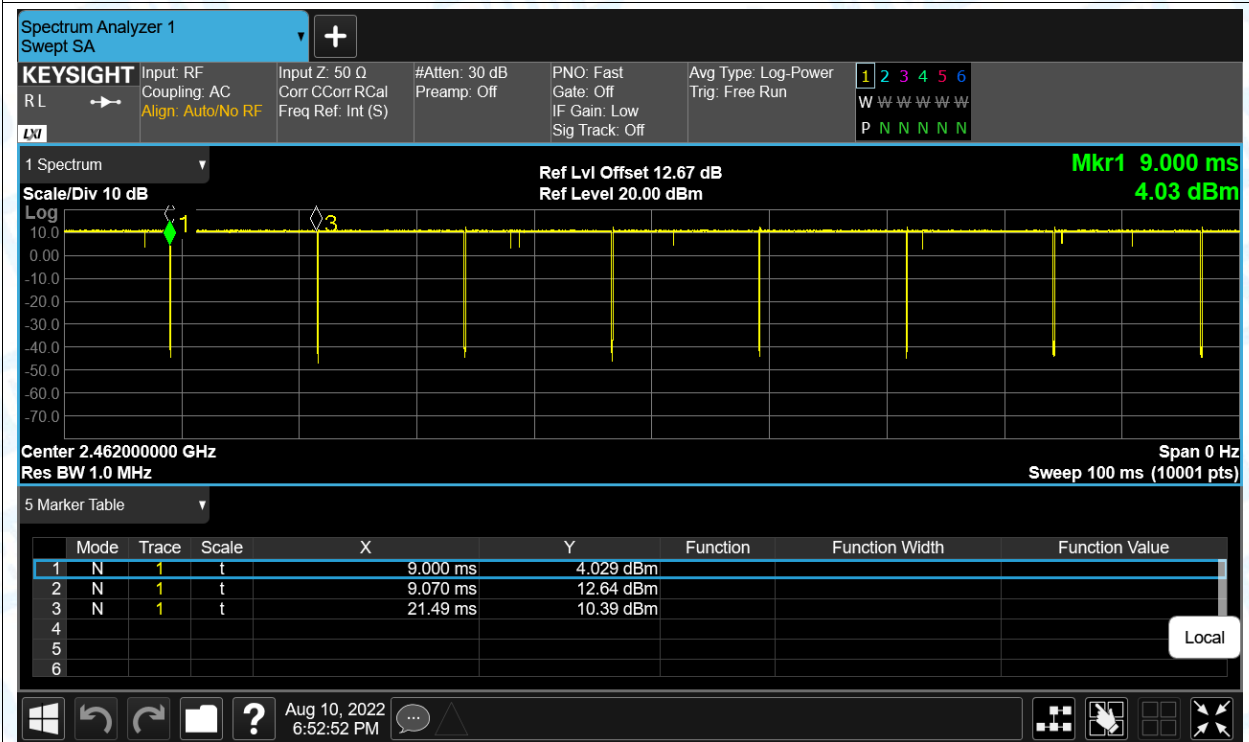
Duty Cycle NVNT b 2412MHz Ant1



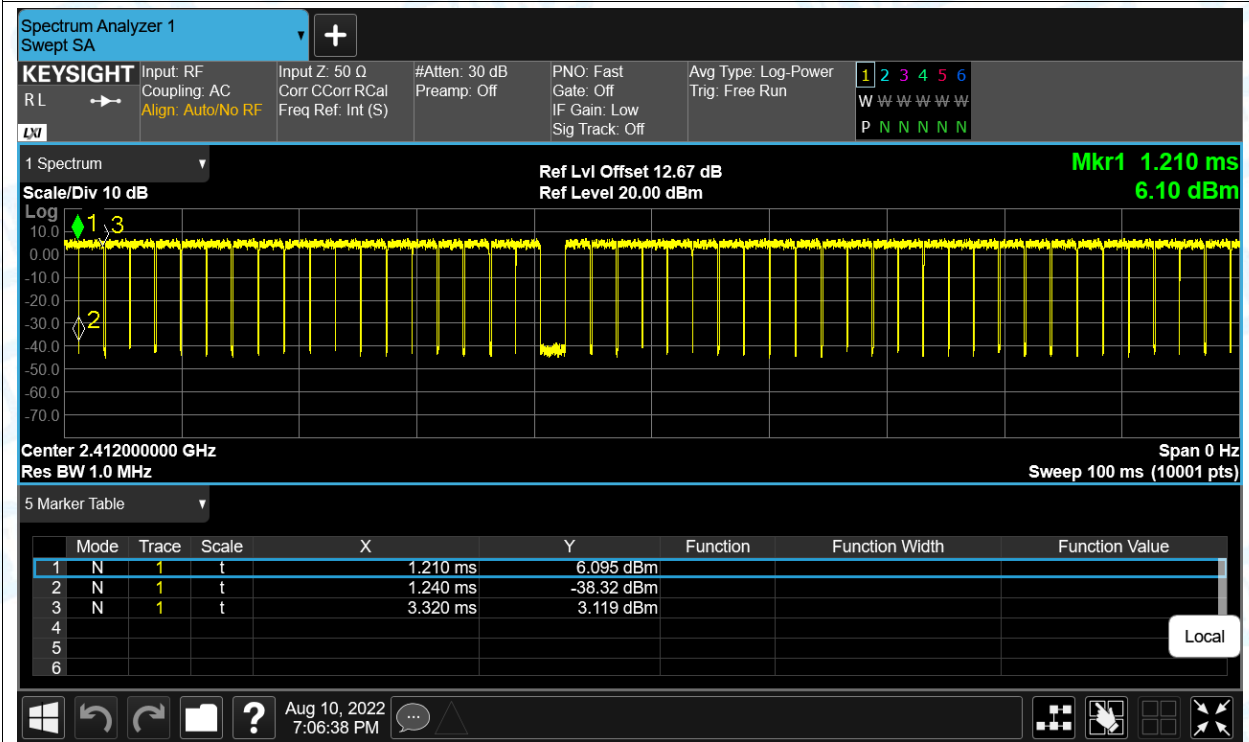
Duty Cycle NVNT b 2437MHz Ant1



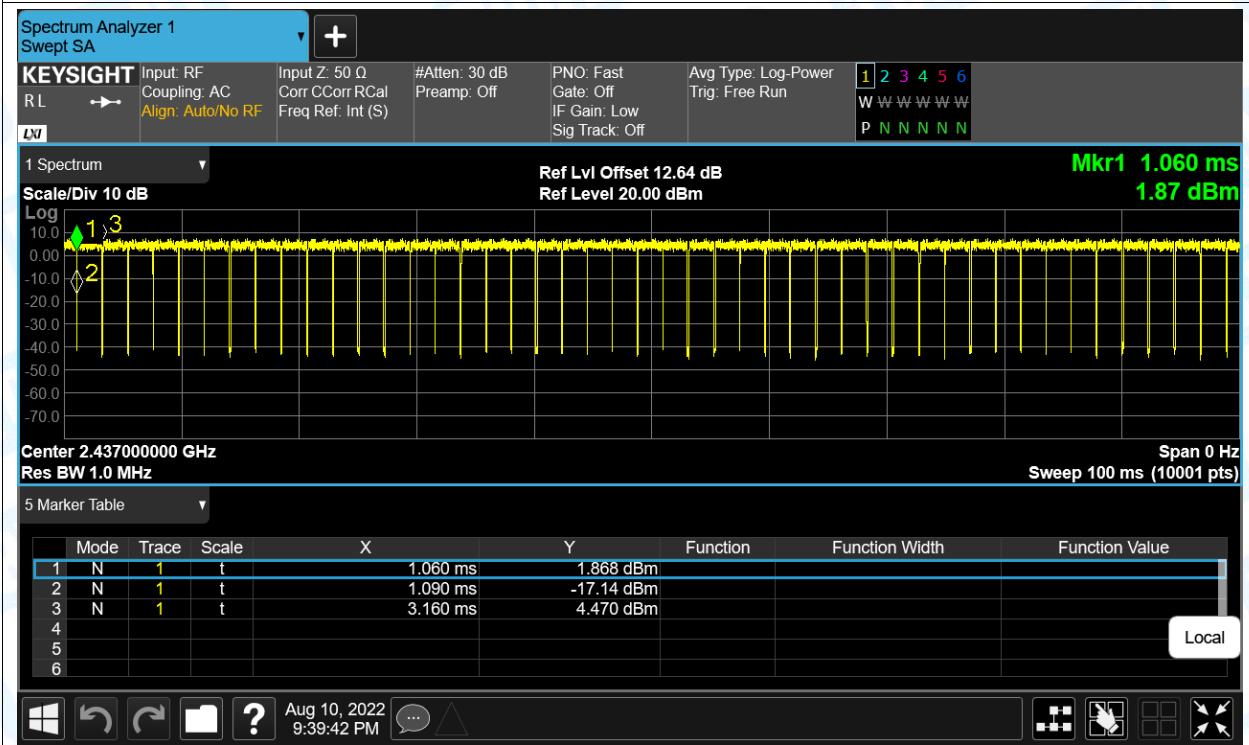
Duty Cycle NVNT b 2462MHz Ant1



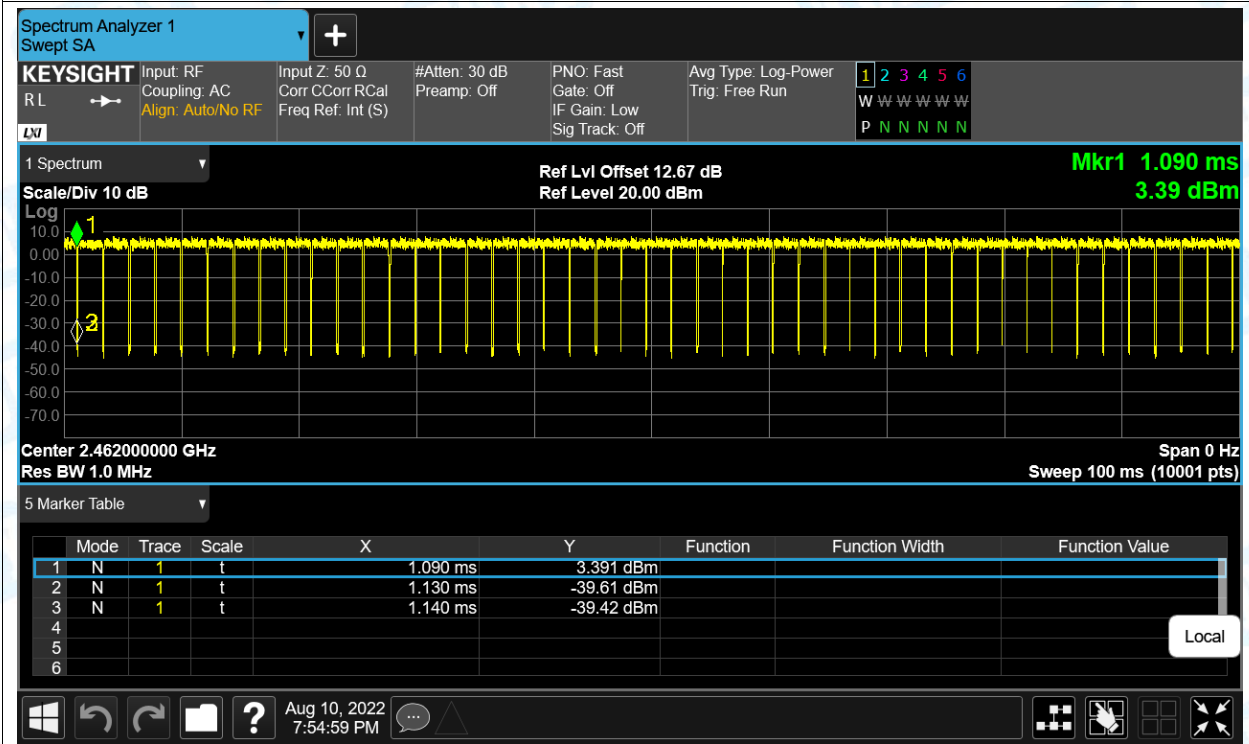
Duty Cycle NVNT g 2412MHz Ant1



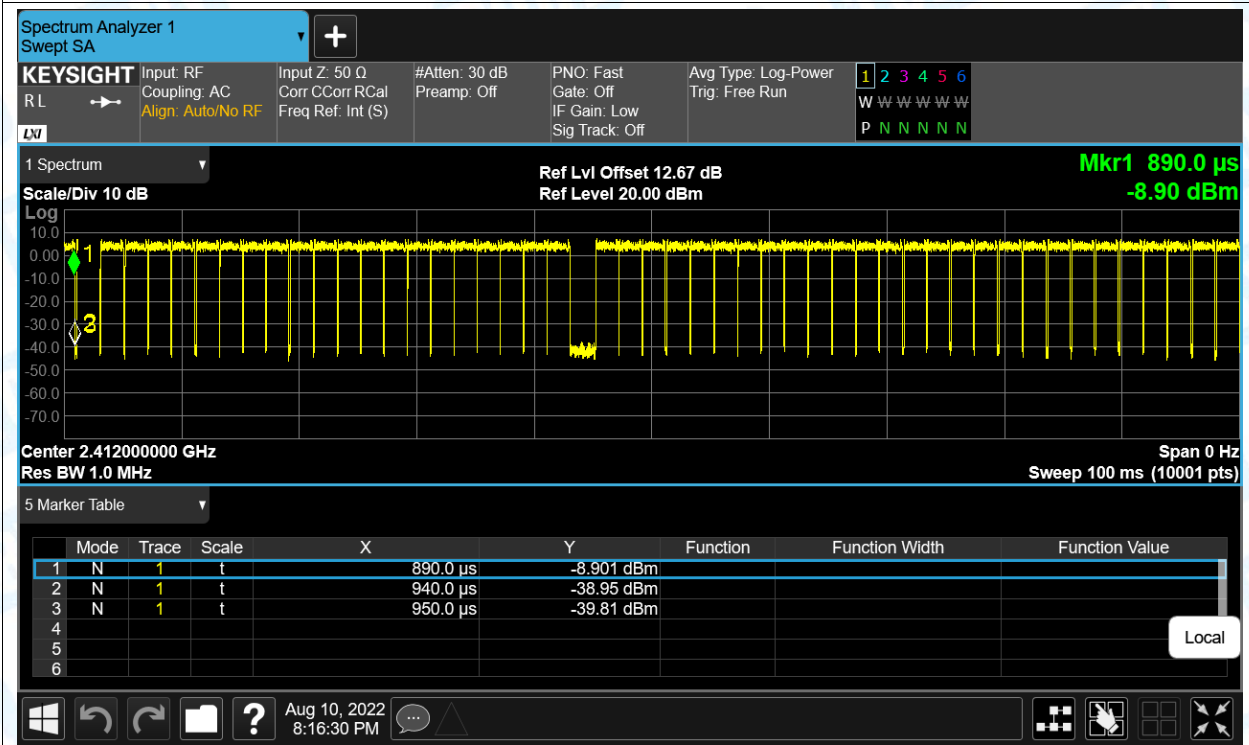
Duty Cycle NVNT g 2437MHz Ant1



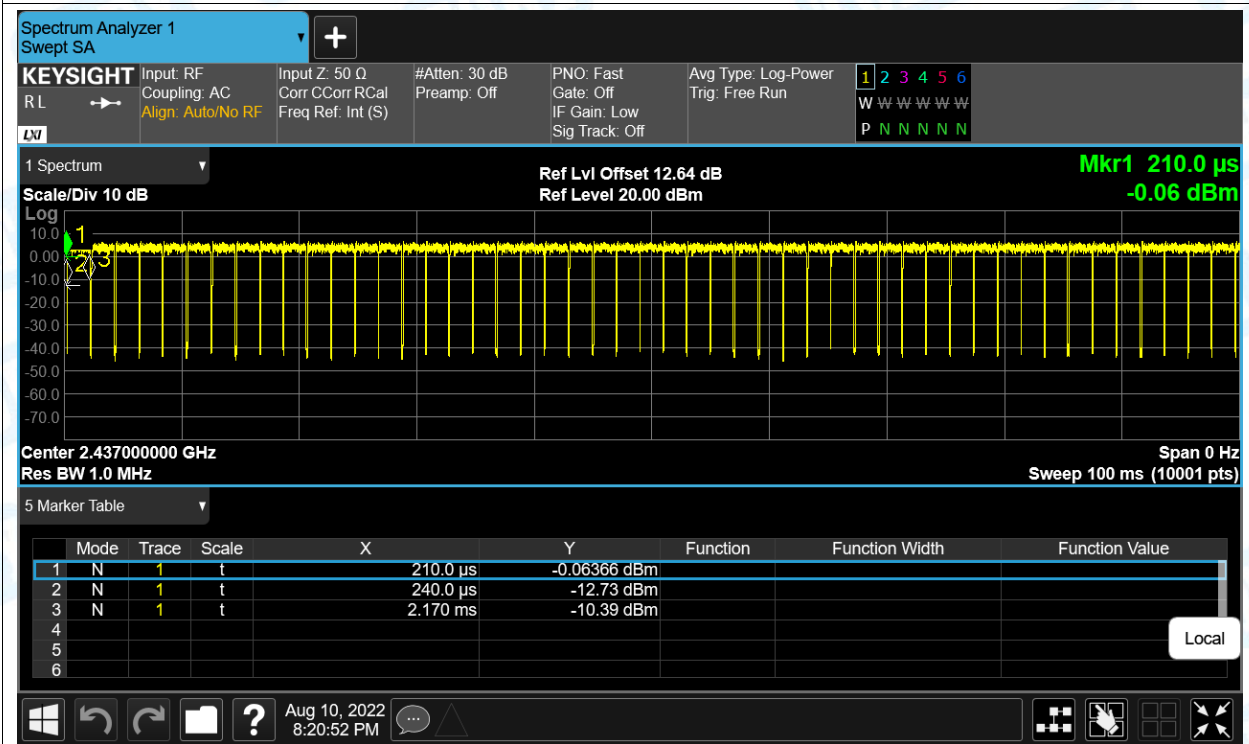
Duty Cycle NVNT g 2462MHz Ant1



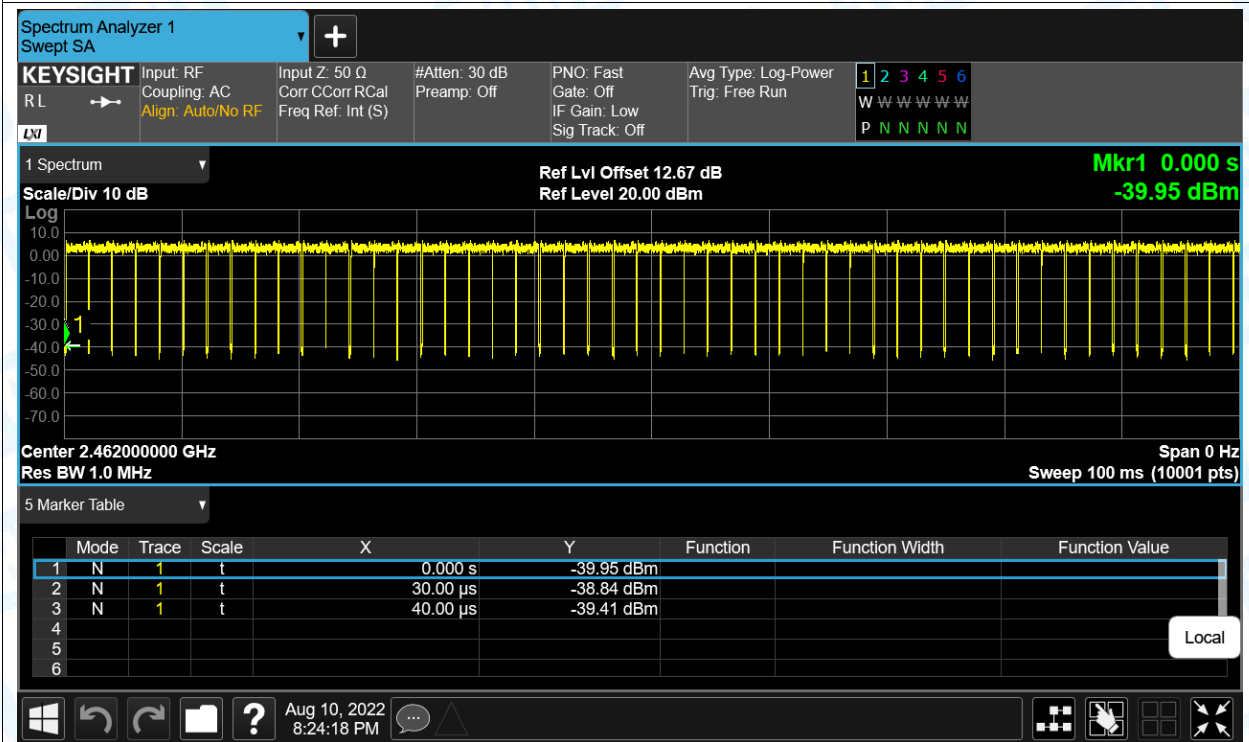
Duty Cycle NVNT n(HT20) 2412MHz Ant1



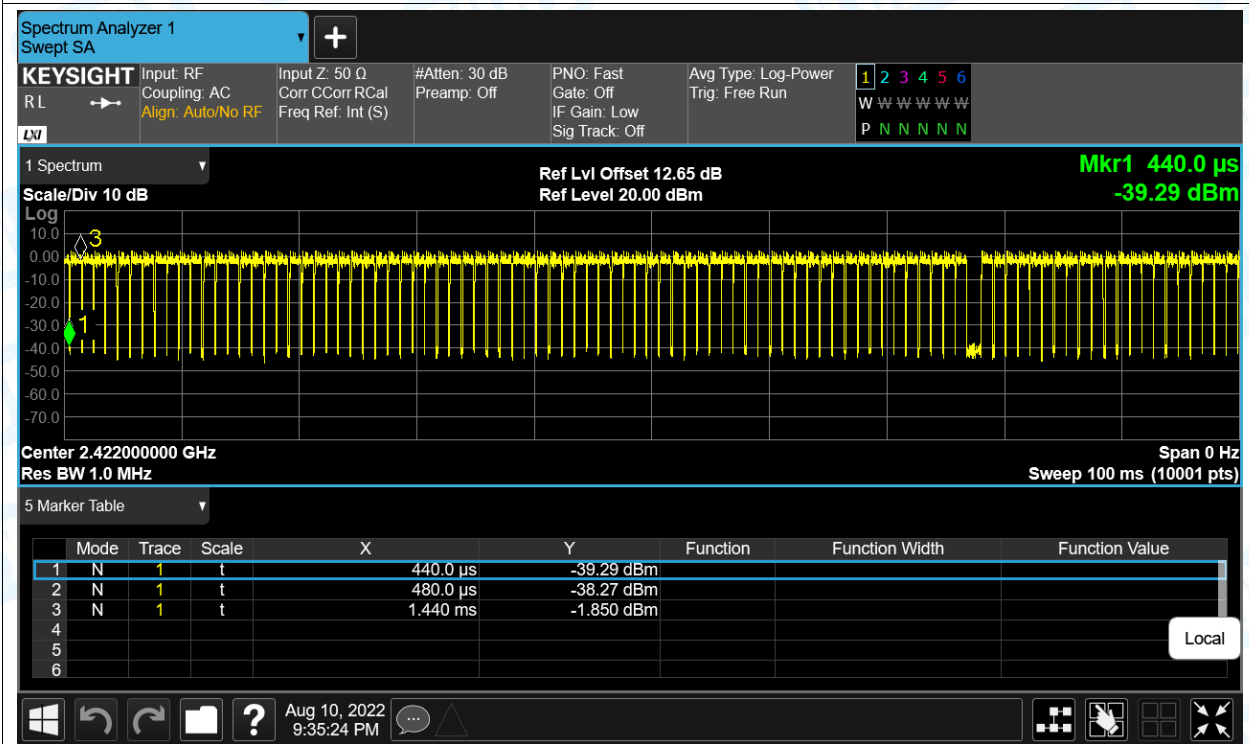
Duty Cycle NVNT n(HT20) 2437MHz Ant1



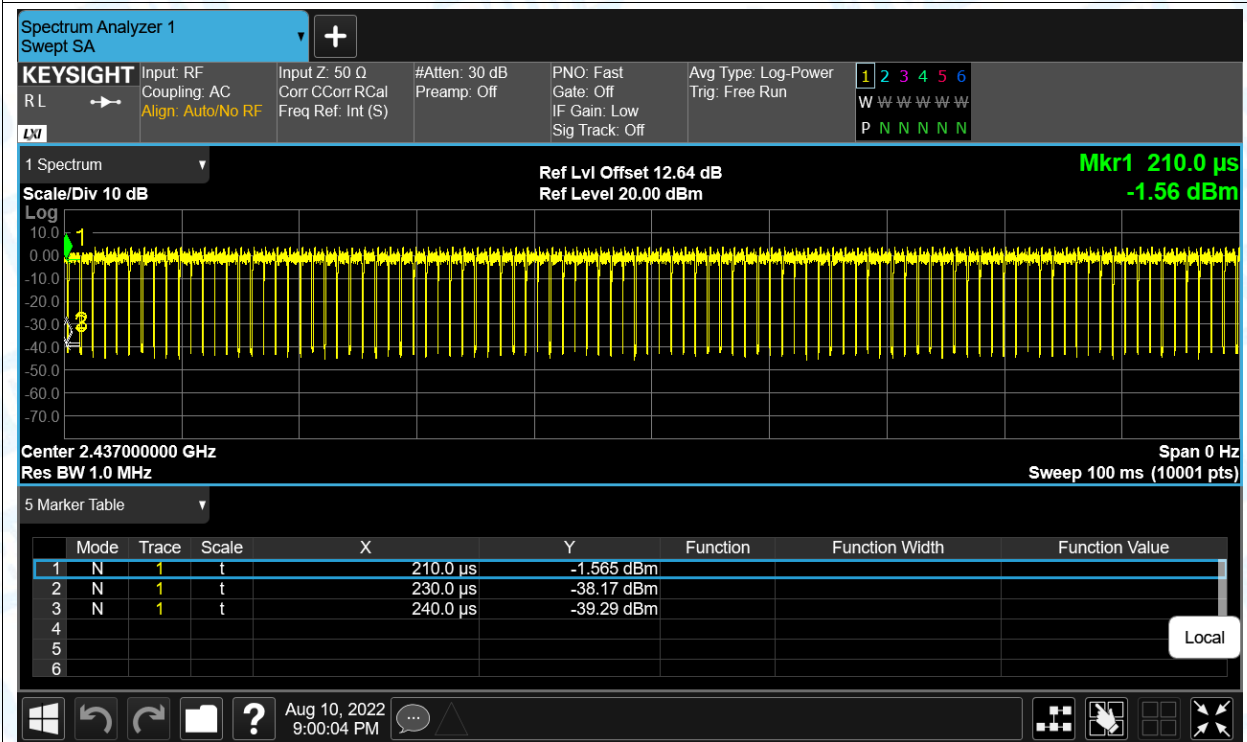
Duty Cycle NVNT n(HT20) 2462MHz Ant1



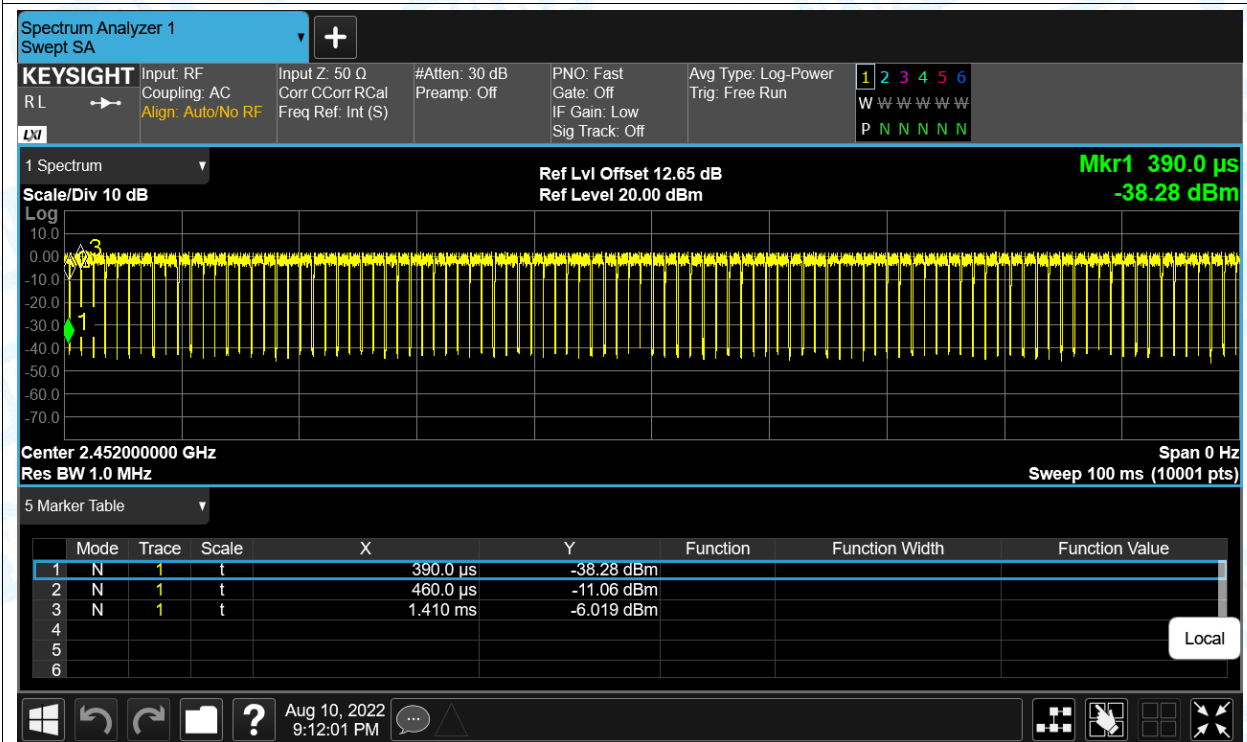
Duty Cycle NVNT n(HT40) 2422MHz Ant1



Duty Cycle NVNT n(HT40) 2437MHz Ant1



Duty Cycle NVNT n(HT40) 2452MHz Ant1



2. Maximum Conducted Output Power

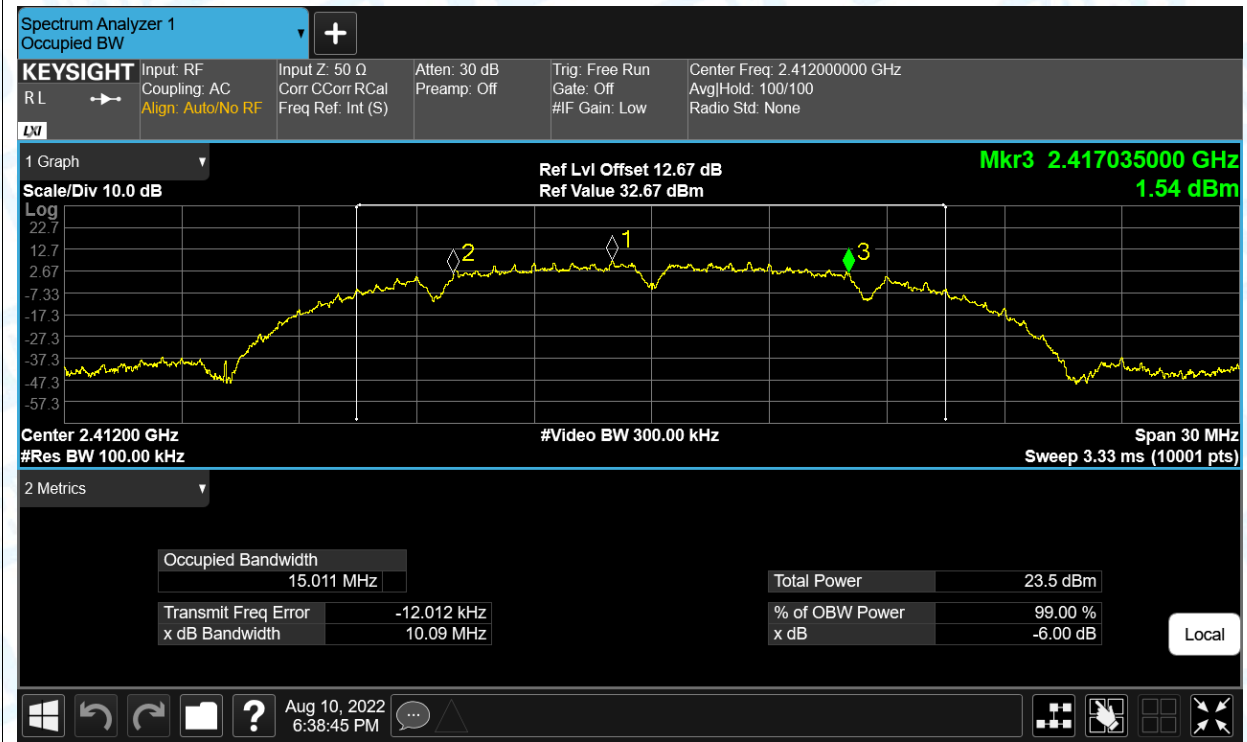
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	18.533	30	Pass
NVNT	b	2437	Ant1	18.437	30	Pass
NVNT	b	2462	Ant1	18.037	30	Pass
NVNT	g	2412	Ant1	17.249	30	Pass
NVNT	g	2437	Ant1	17.109	30	Pass
NVNT	g	2462	Ant1	18.275	30	Pass
NVNT	n(HT20)	2412	Ant1	17.159	30	Pass
NVNT	n(HT20)	2437	Ant1	16.985	30	Pass
NVNT	n(HT20)	2462	Ant1	16.636	30	Pass
NVNT	n(HT40)	2422	Ant1	17.062	30	Pass
NVNT	n(HT40)	2437	Ant1	17.613	30	Pass
NVNT	n(HT40)	2452	Ant1	17.145	30	Pass

3. -6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	10.09	0.5	Pass
NVNT	b	2437	Ant1	10.06	0.5	Pass
NVNT	b	2462	Ant1	10	0.5	Pass
NVNT	g	2412	Ant1	16.32	0.5	Pass
NVNT	g	2437	Ant1	16.33	0.5	Pass
NVNT	g	2462	Ant1	16.34	0.5	Pass
NVNT	n(HT20)	2412	Ant1	17	0.5	Pass
NVNT	n(HT20)	2437	Ant1	17.26	0.5	Pass
NVNT	n(HT20)	2462	Ant1	17.53	0.5	Pass
NVNT	n(HT40)	2422	Ant1	36.05	0.5	Pass
NVNT	n(HT40)	2437	Ant1	36.04	0.5	Pass
NVNT	n(HT40)	2452	Ant1	35.41	0.5	Pass

Test Graphs

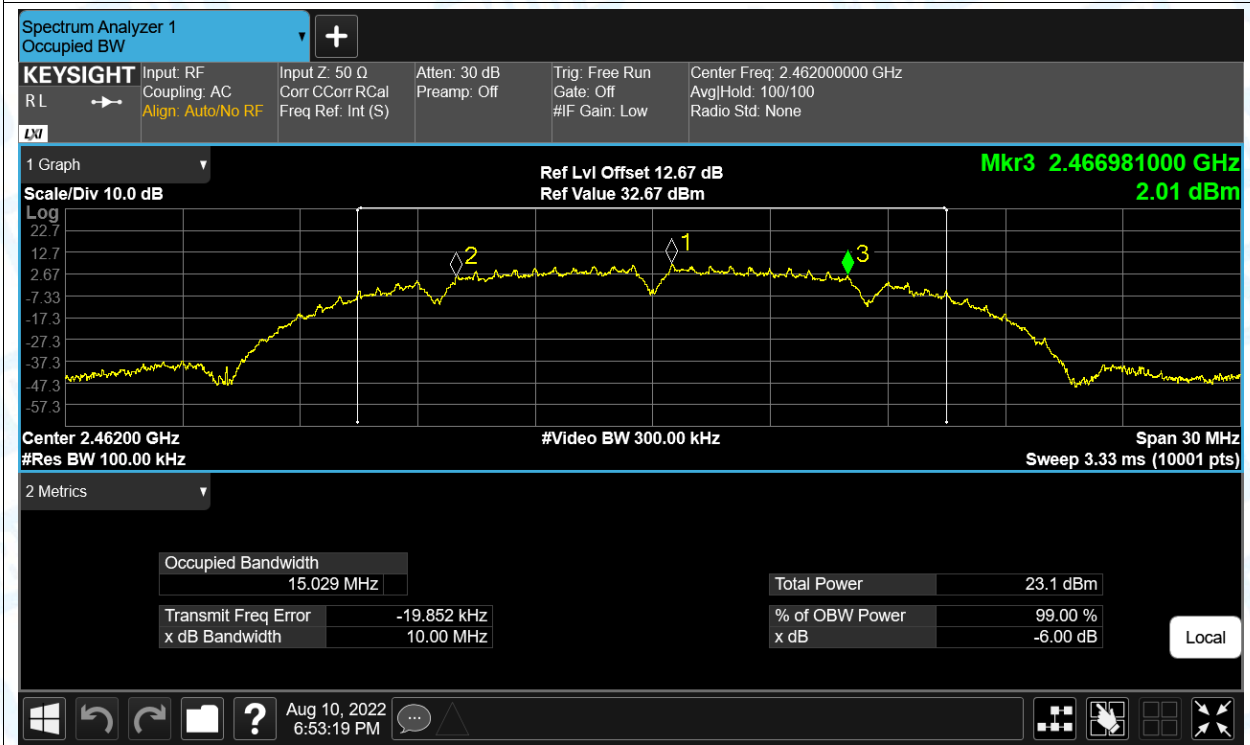
-6dB Bandwidth NVNT b 2412MHz Ant1



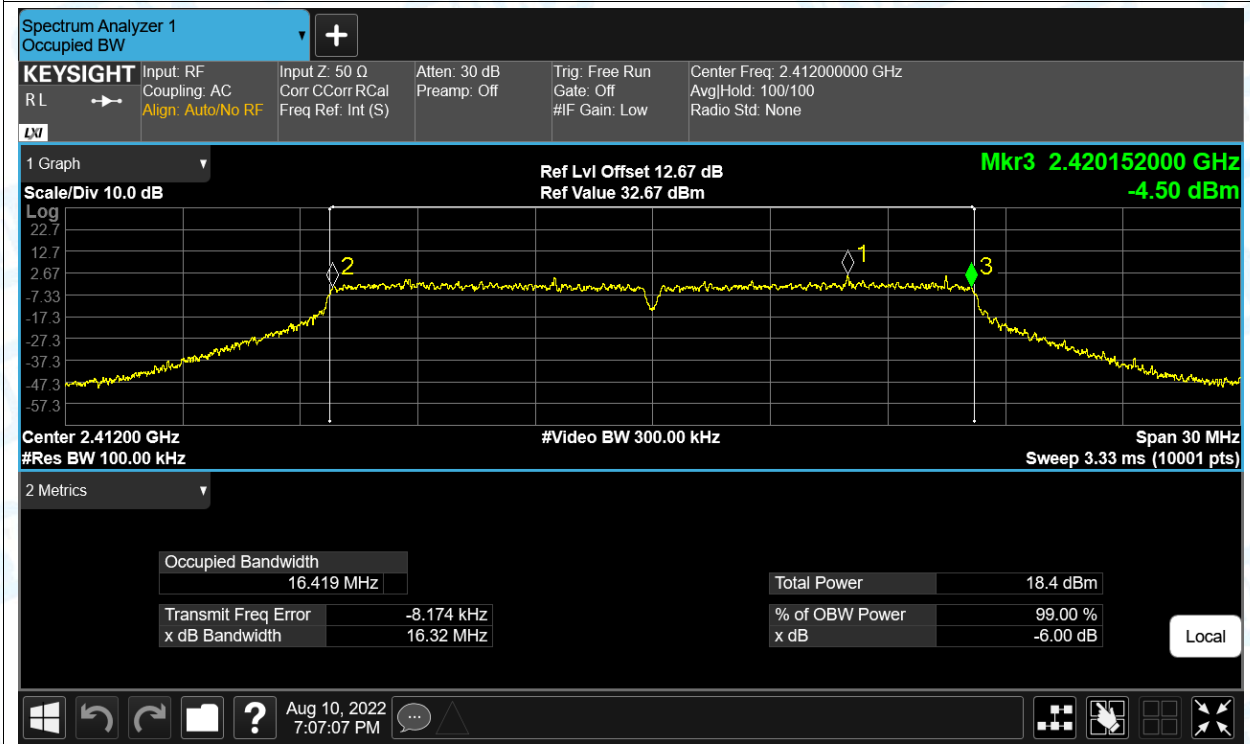
-6dB Bandwidth NVNT b 2437MHz Ant1



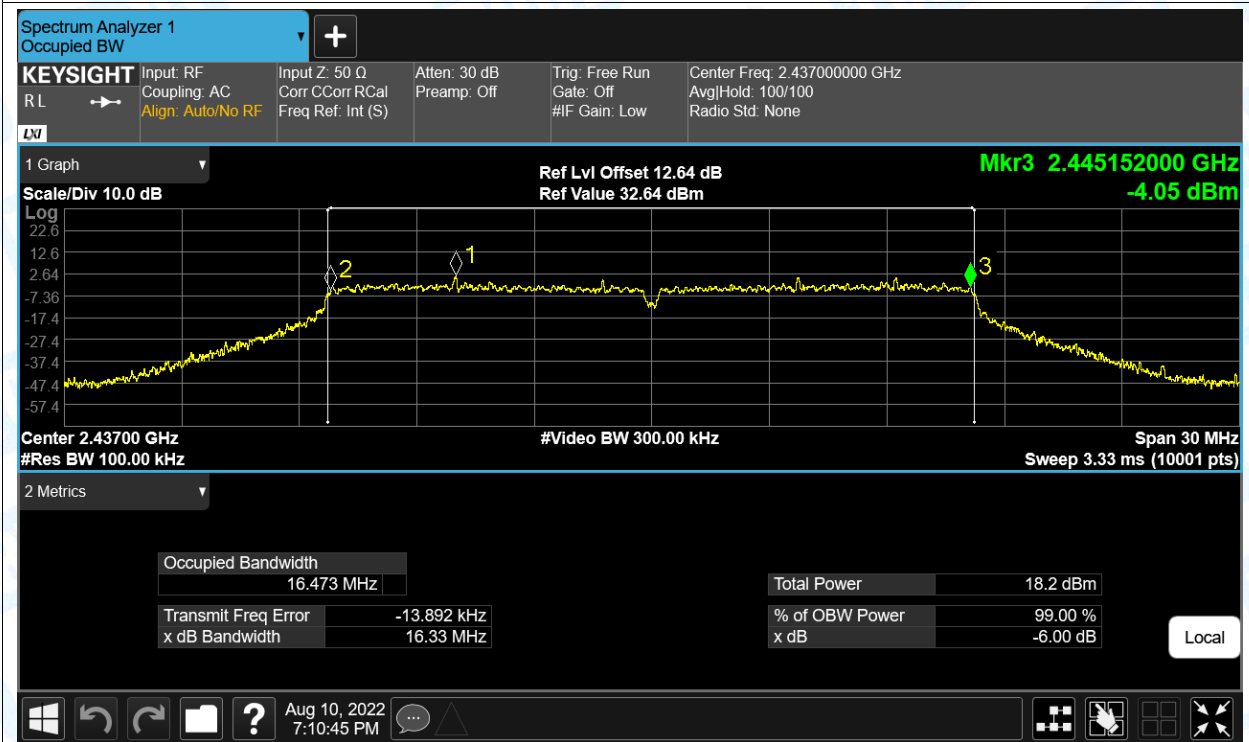
-6dB Bandwidth NVNT b 2462MHz Ant1



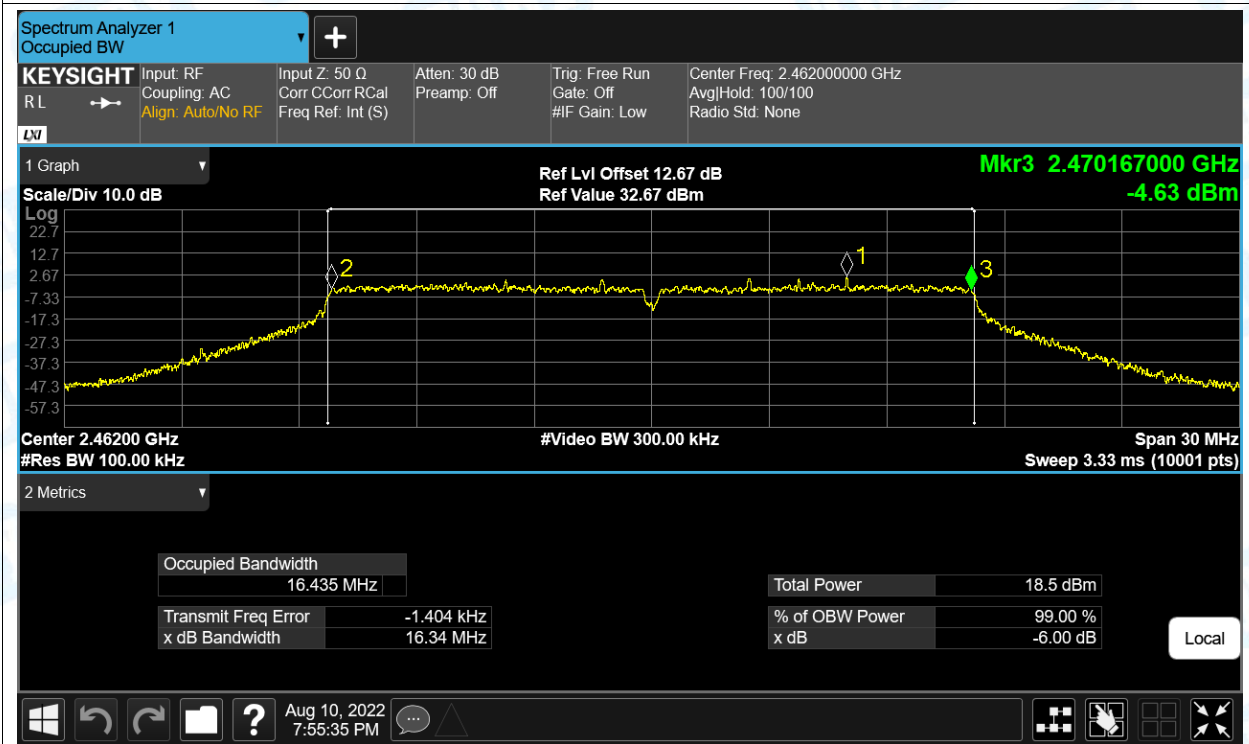
-6dB Bandwidth NVNT g 2412MHz Ant1



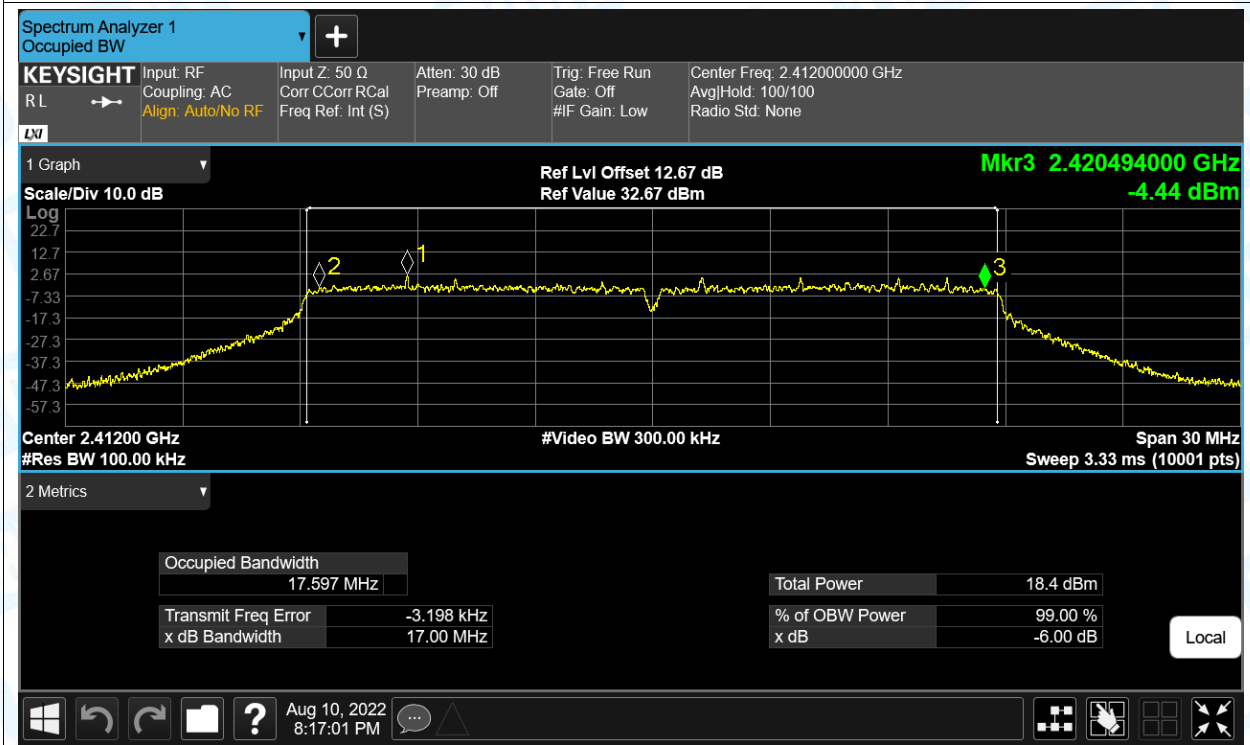
-6dB Bandwidth NVNT g 2437MHz Ant1



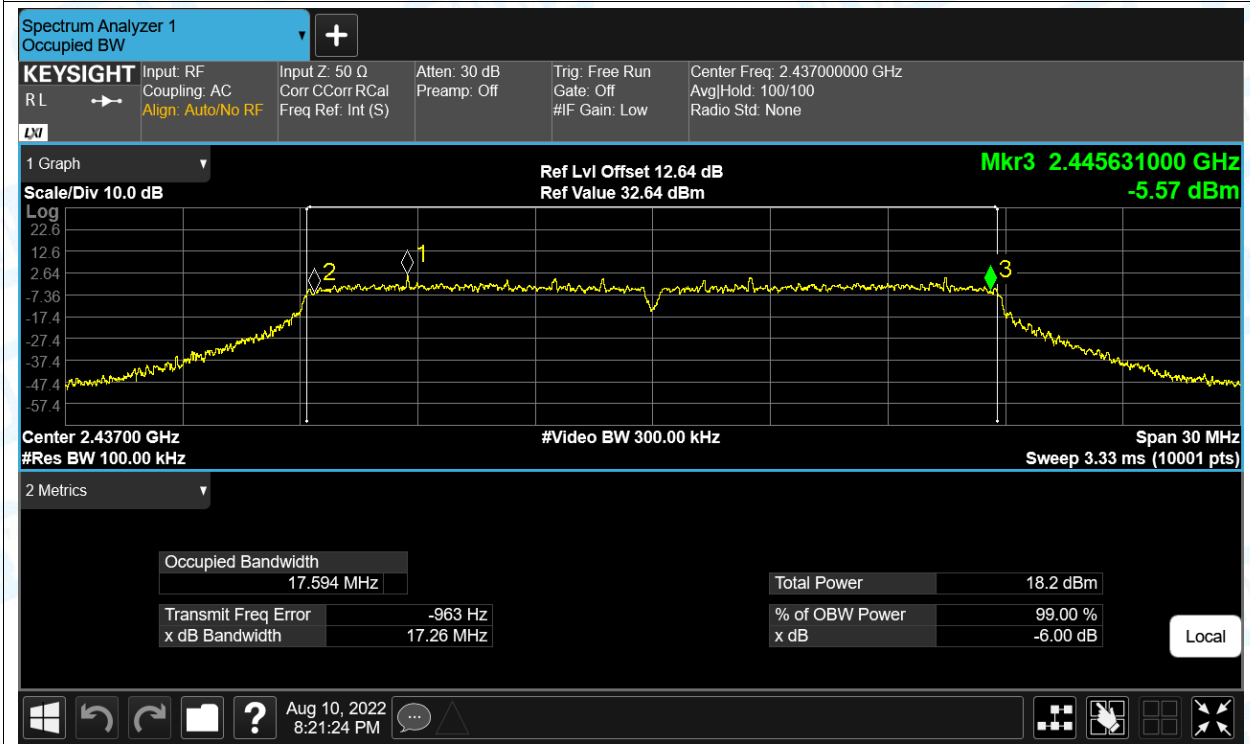
-6dB Bandwidth NVNT g 2462MHz Ant1



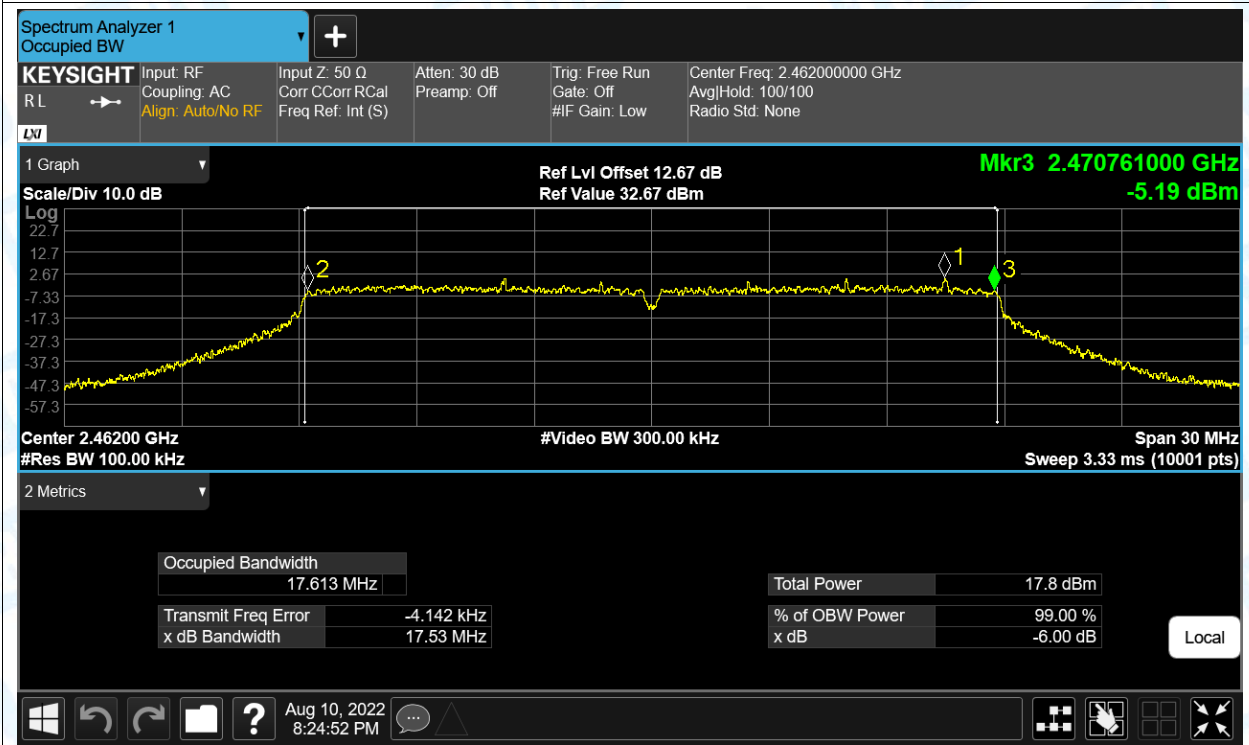
-6dB Bandwidth NVNT n(HT20) 2412MHz Ant1



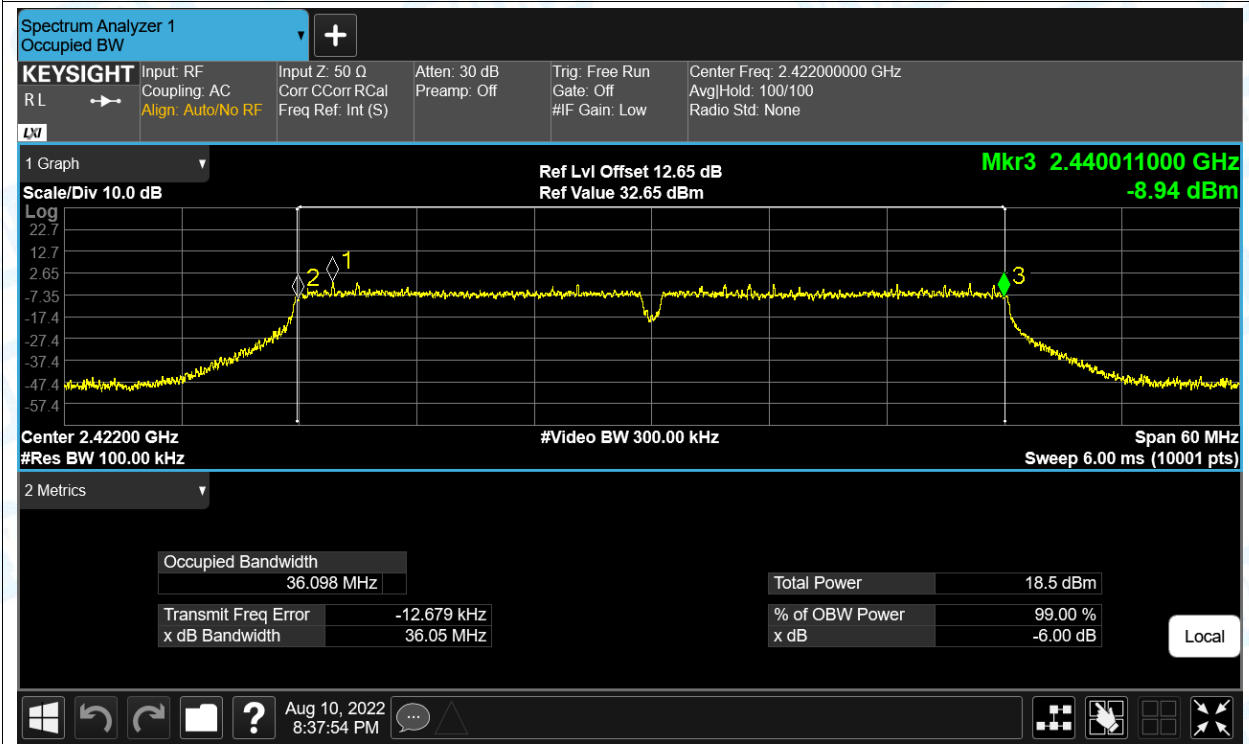
-6dB Bandwidth NVNT n(HT20) 2437MHz Ant1



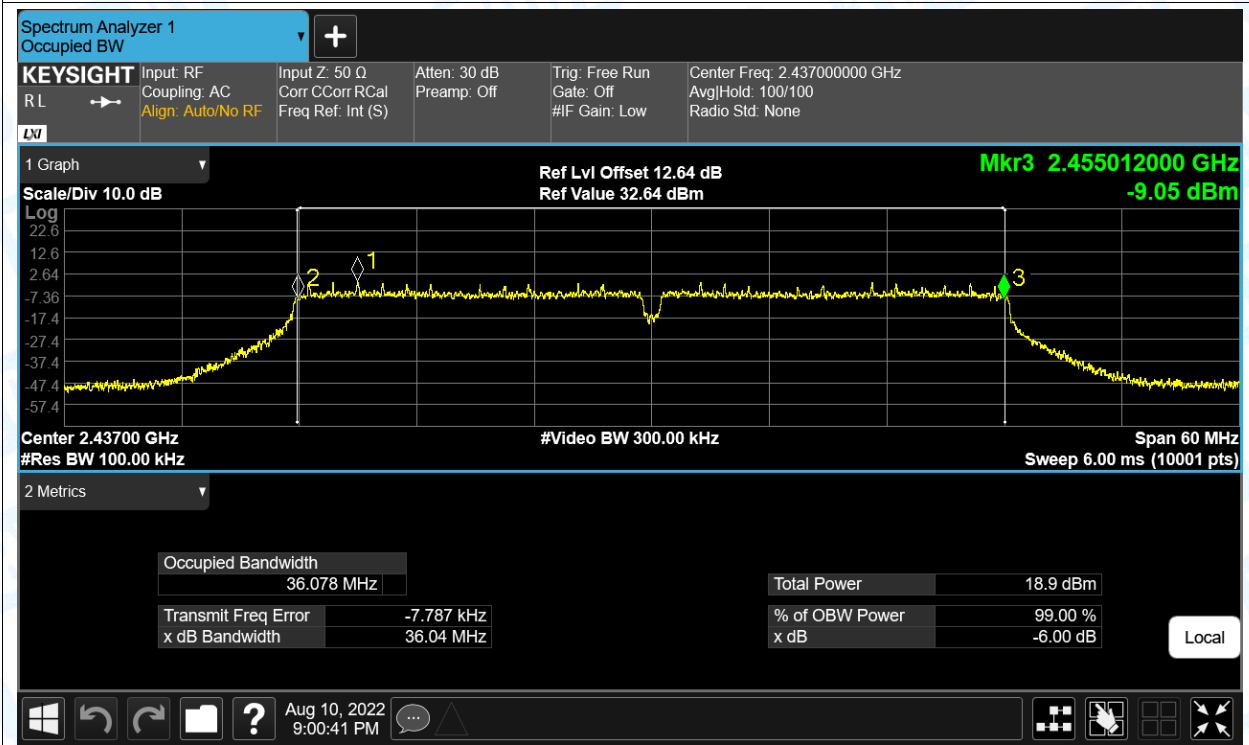
-6dB Bandwidth NVNT n(HT20) 2462MHz Ant1



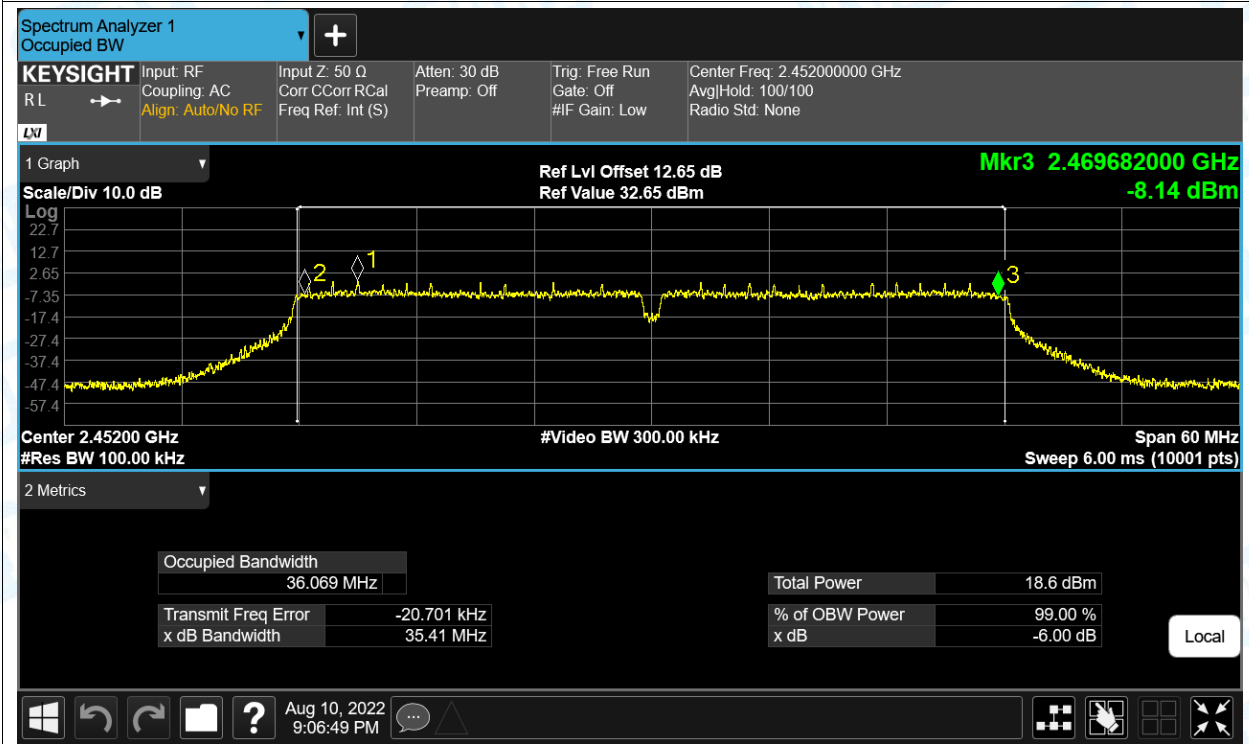
-6dB Bandwidth NVNT n(HT40) 2422MHz Ant1



-6dB Bandwidth NVNT n(HT40) 2437MHz Ant1



-6dB Bandwidth NVNT n(HT40) 2452MHz Ant1

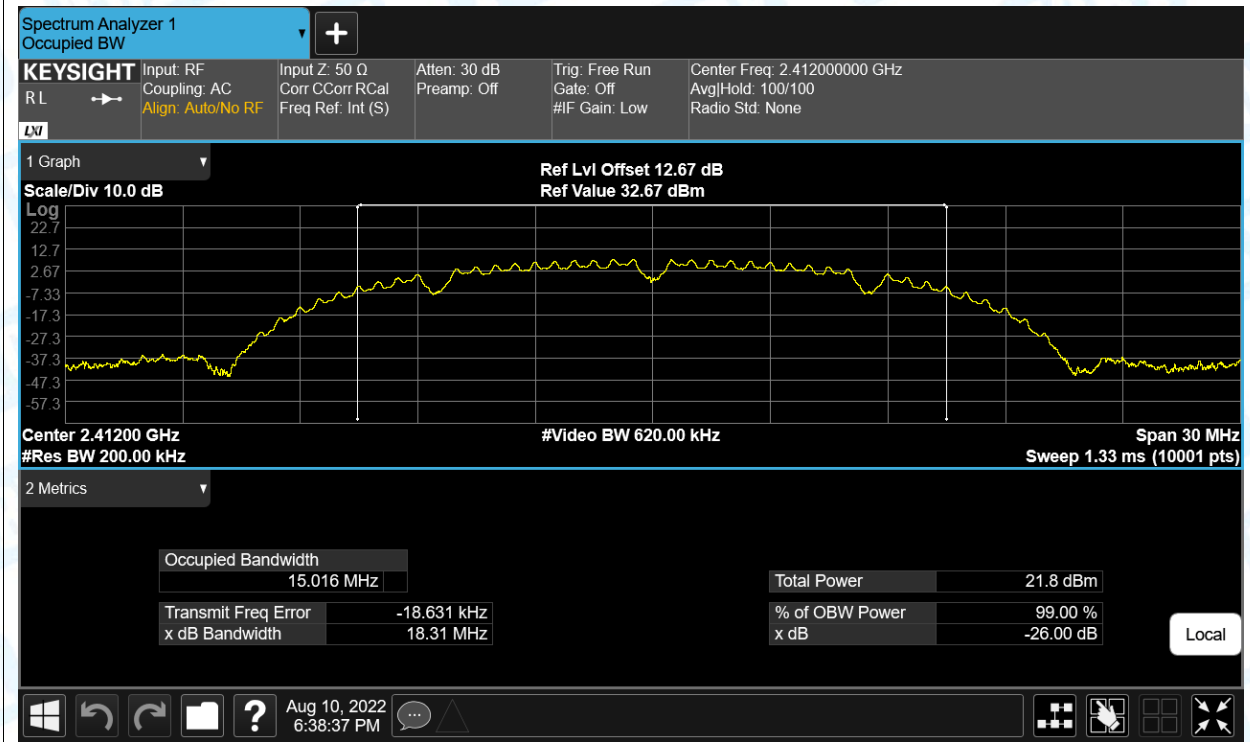


4. Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	b	2412	Ant1	15.016
NVNT	b	2437	Ant1	15.012
NVNT	b	2462	Ant1	15.023
NVNT	g	2412	Ant1	16.546
NVNT	g	2437	Ant1	16.583
NVNT	g	2462	Ant1	16.559
NVNT	n(HT20)	2412	Ant1	17.667
NVNT	n(HT20)	2437	Ant1	17.643
NVNT	n(HT20)	2462	Ant1	17.637
NVNT	n(HT40)	2422	Ant1	36.239
NVNT	n(HT40)	2437	Ant1	36.25
NVNT	n(HT40)	2452	Ant1	36.199

Test Graphs

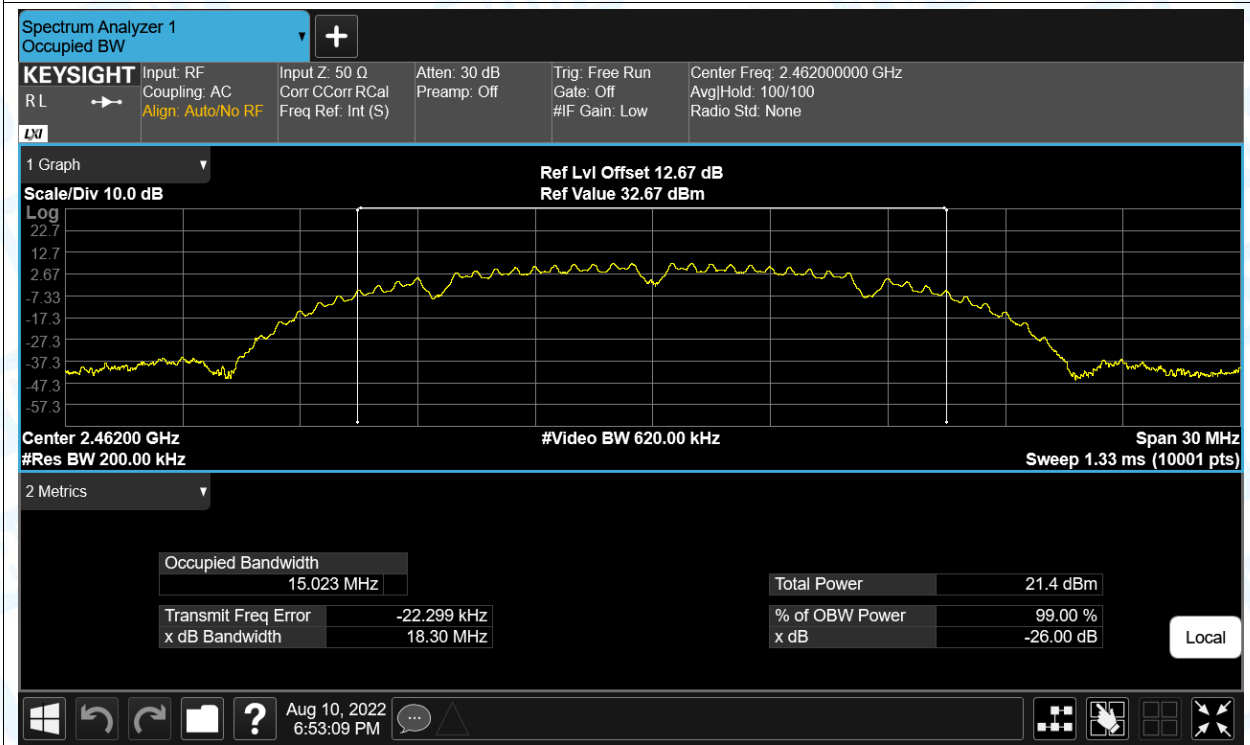
OBW NVNT b 2412MHz Ant1



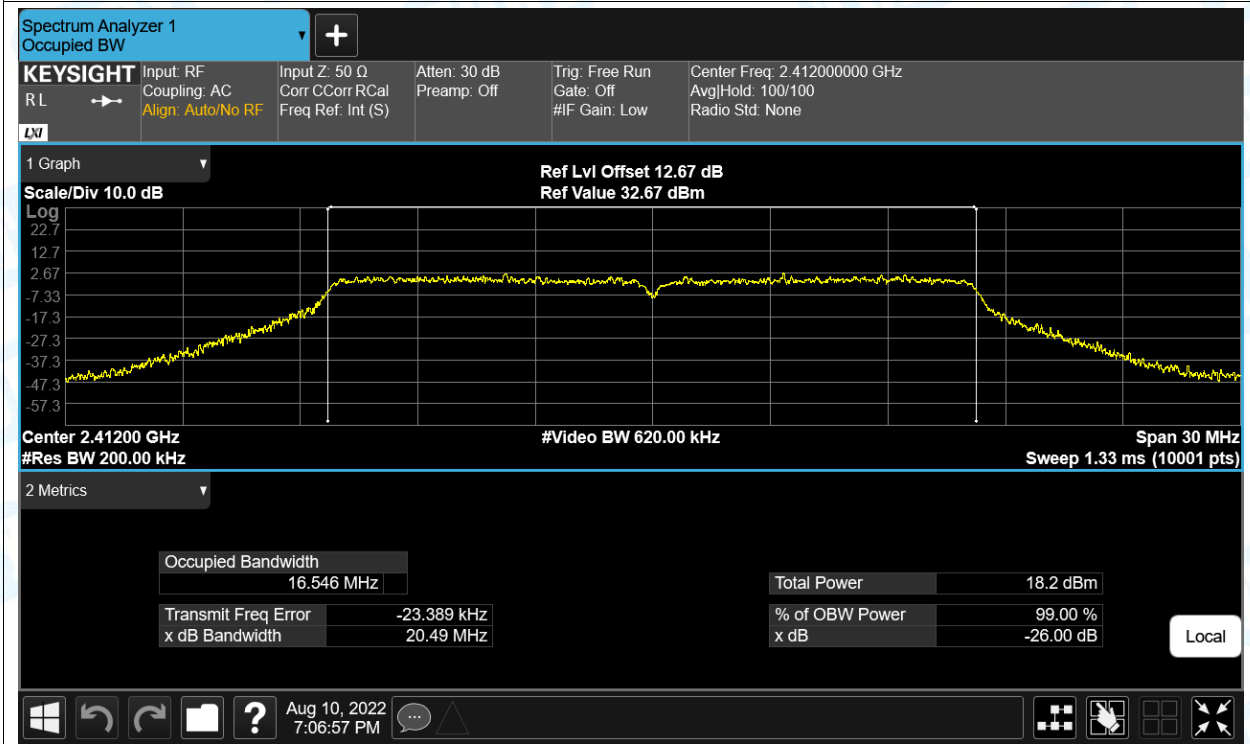
OBW NVNT b 2437MHz Ant1



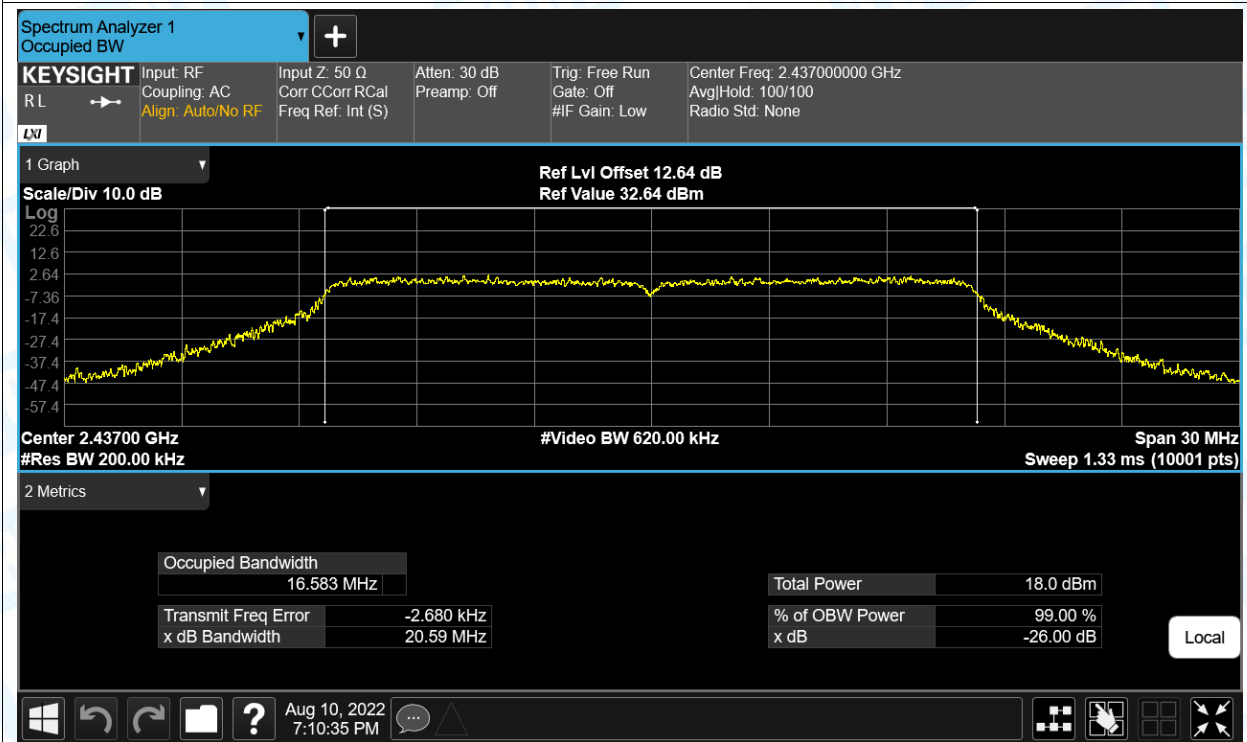
OBW NVNT b 2462MHz Ant1



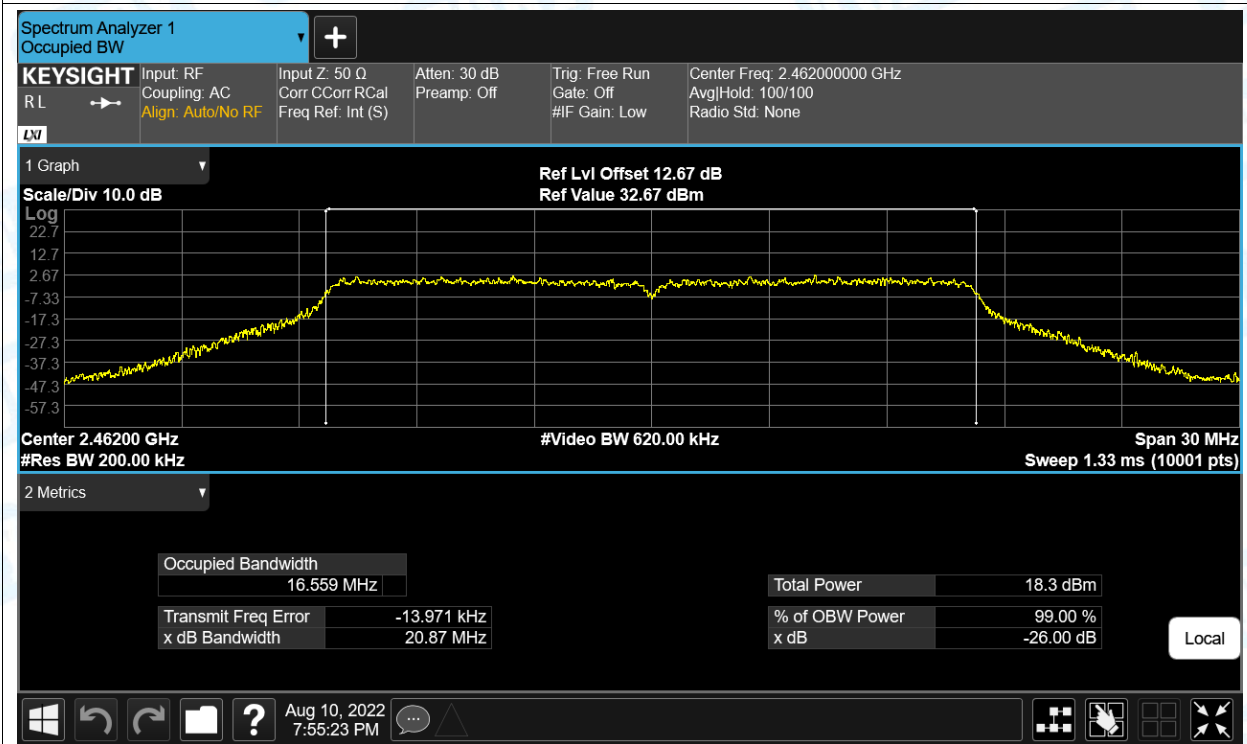
OBW NVNT g 2412MHz Ant1



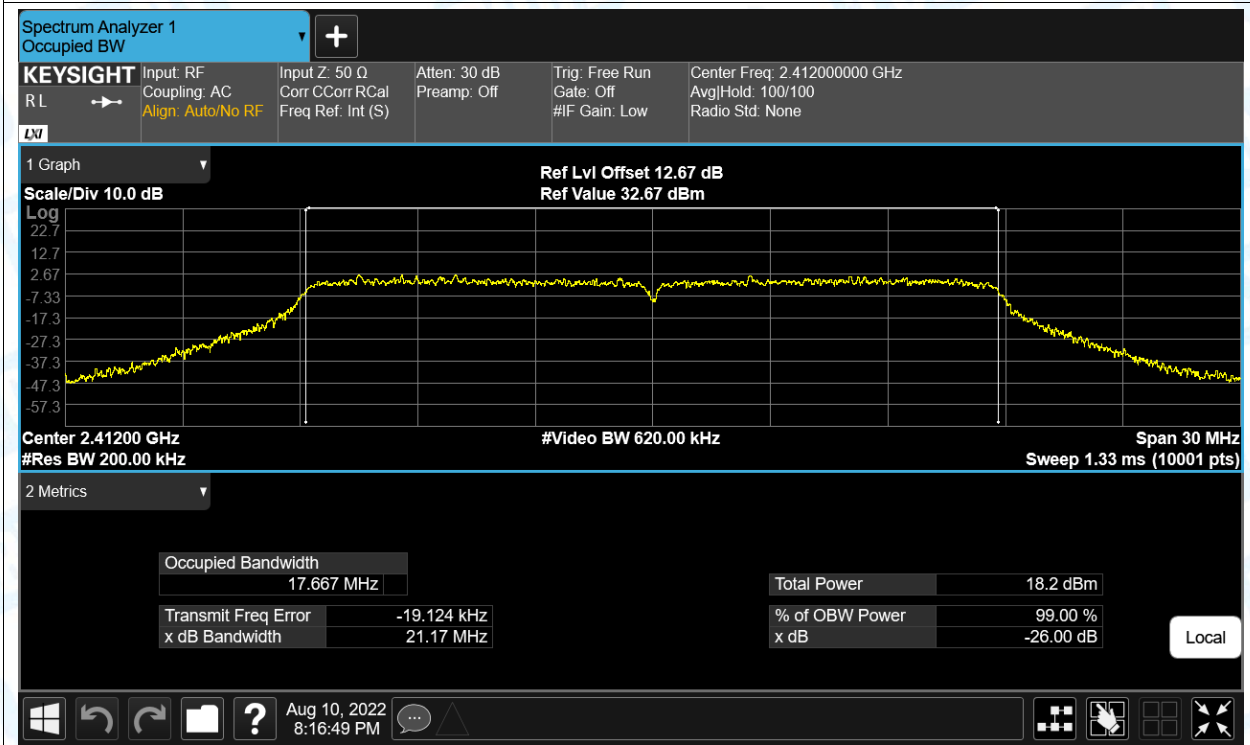
OBW NVNT g 2437MHz Ant1



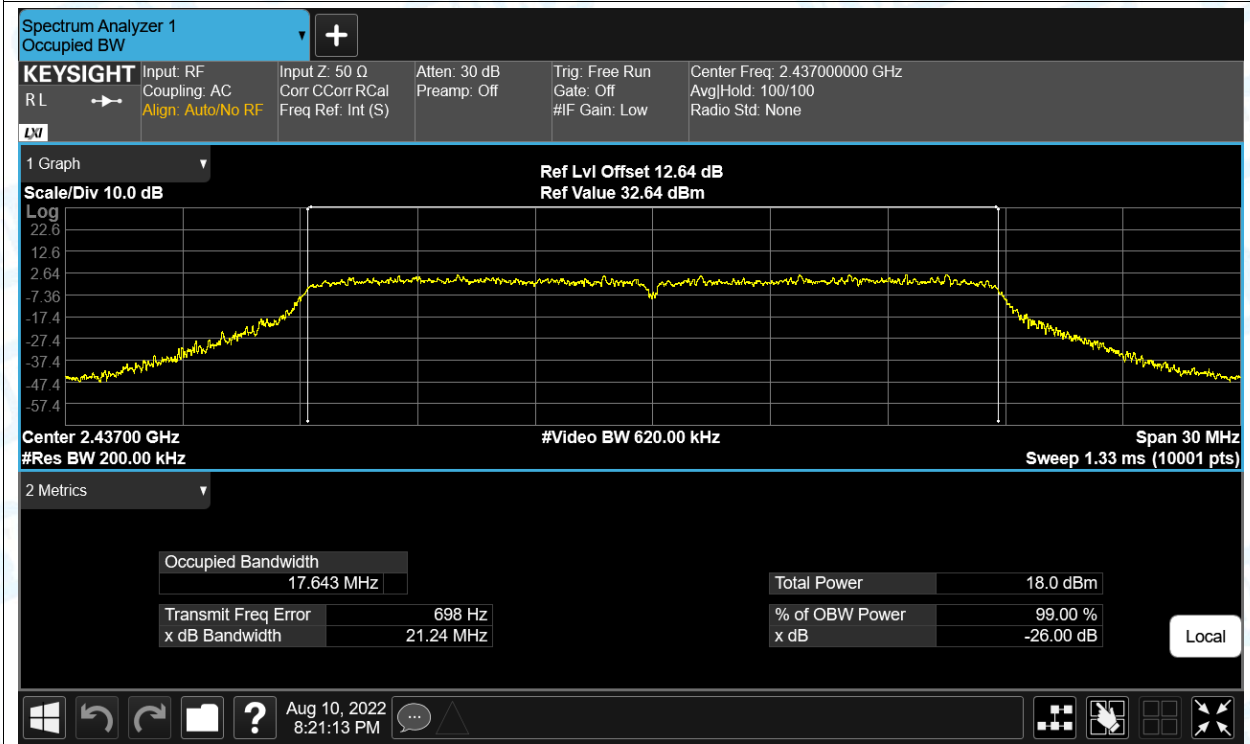
OBW NVNT g 2462MHz Ant1



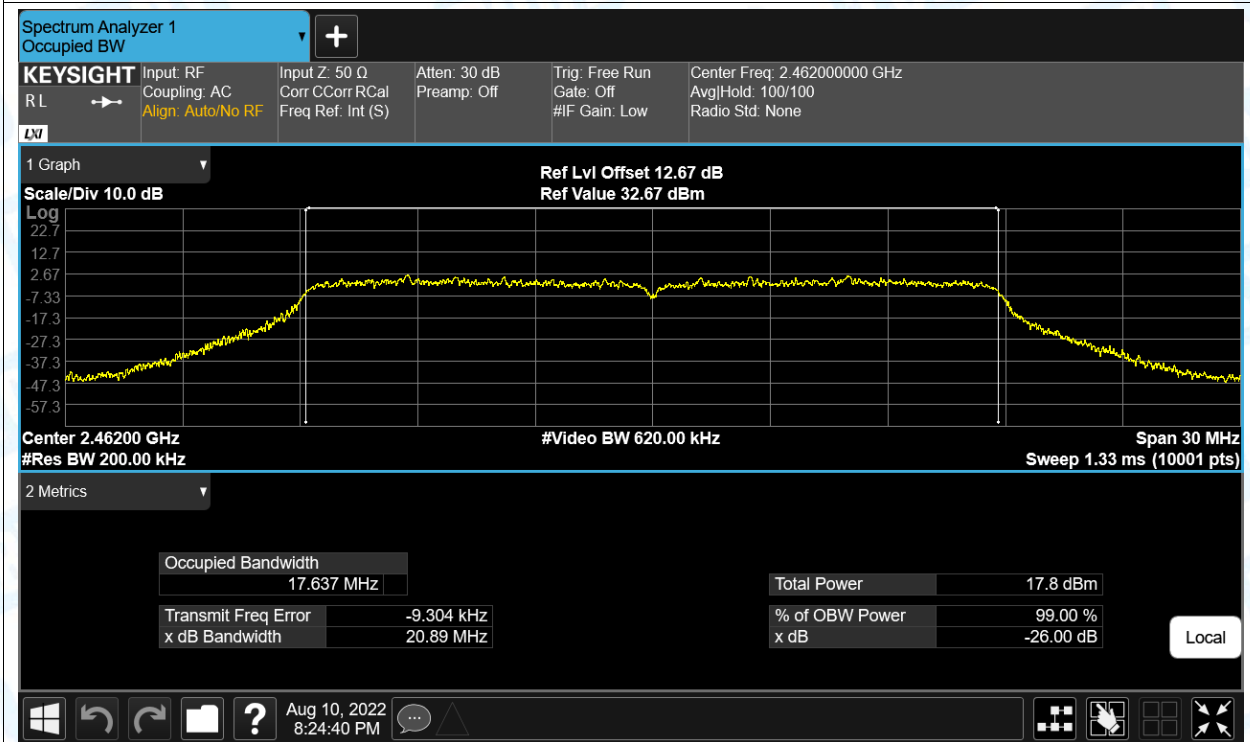
OBW NVNT n(HT20) 2412MHz Ant1



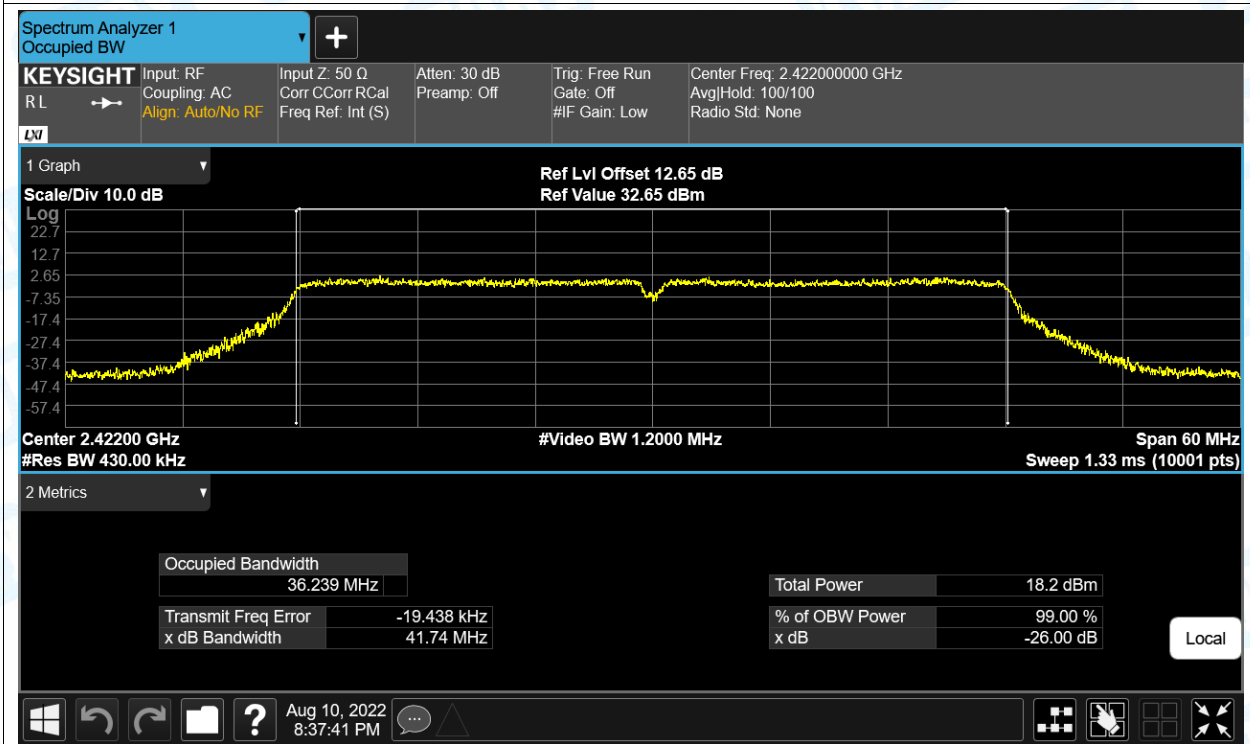
OBW NVNT n(HT20) 2437MHz Ant1



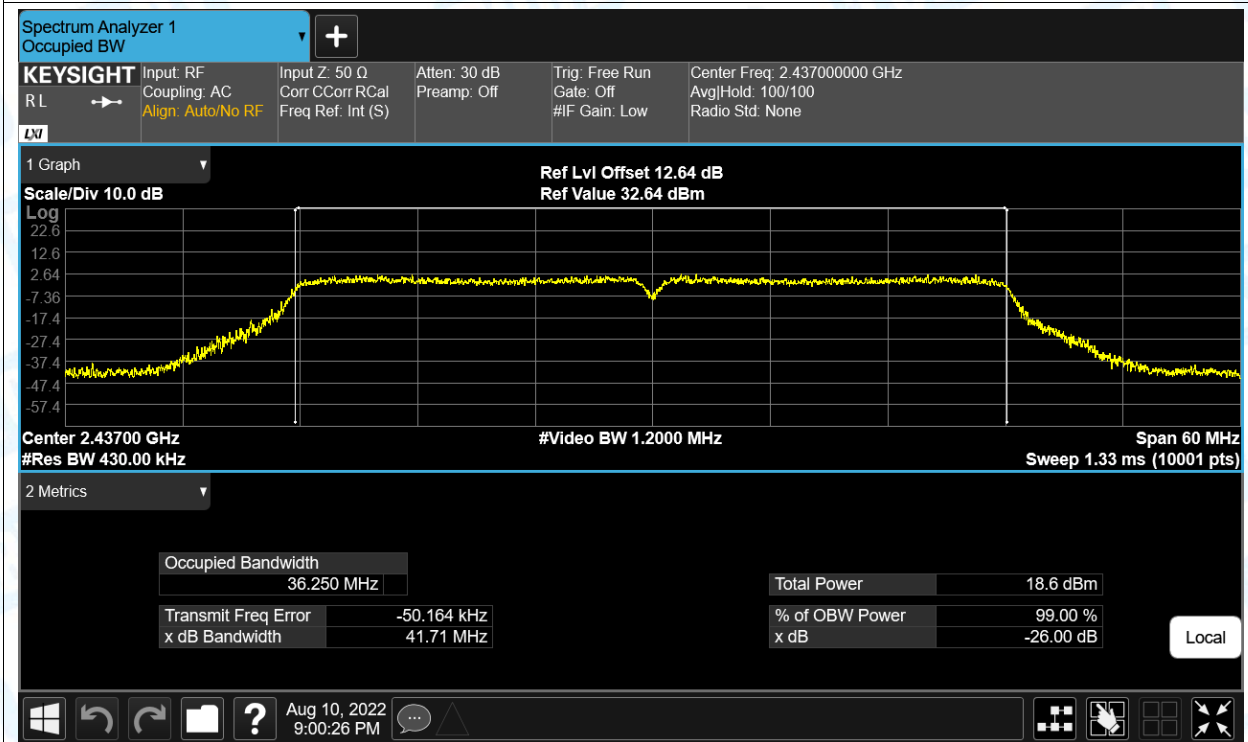
OBW NVNT n(HT20) 2462MHz Ant1



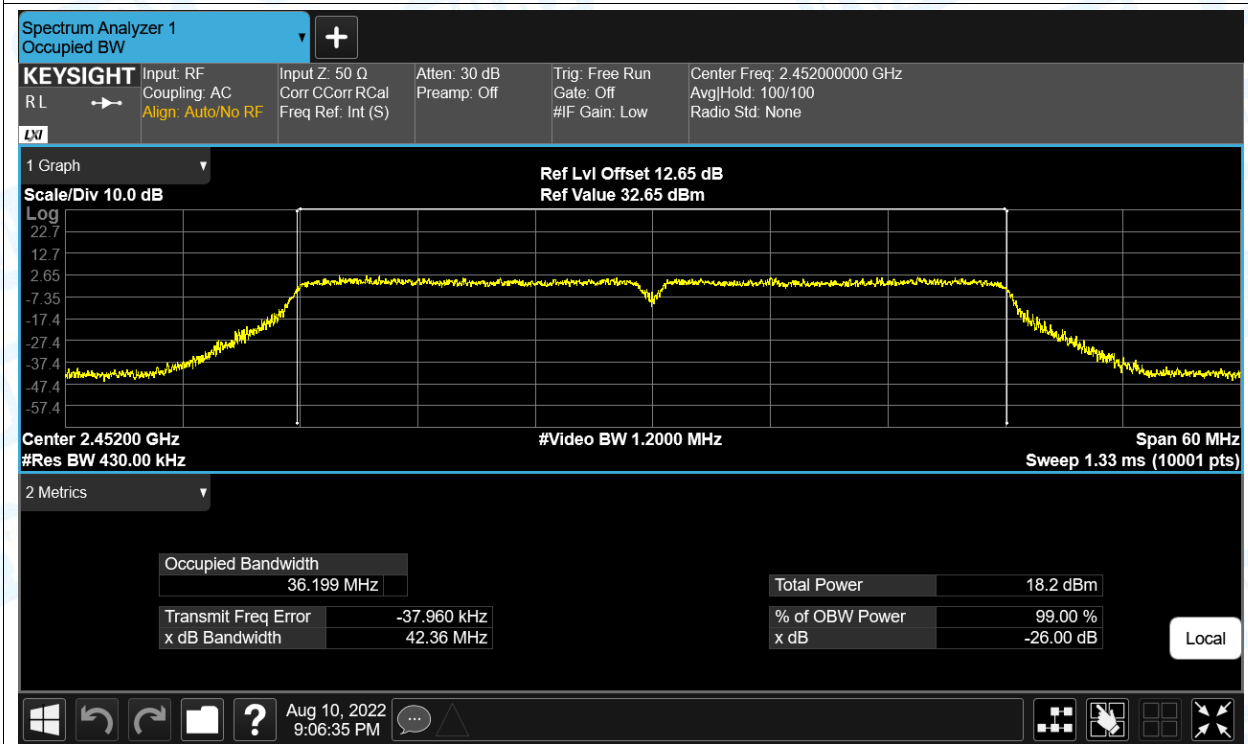
OBW NVNT n(HT40) 2422MHz Ant1



OBW NVNT n(HT40) 2437MHz Ant1



OBW NVNT n(HT40) 2452MHz Ant1

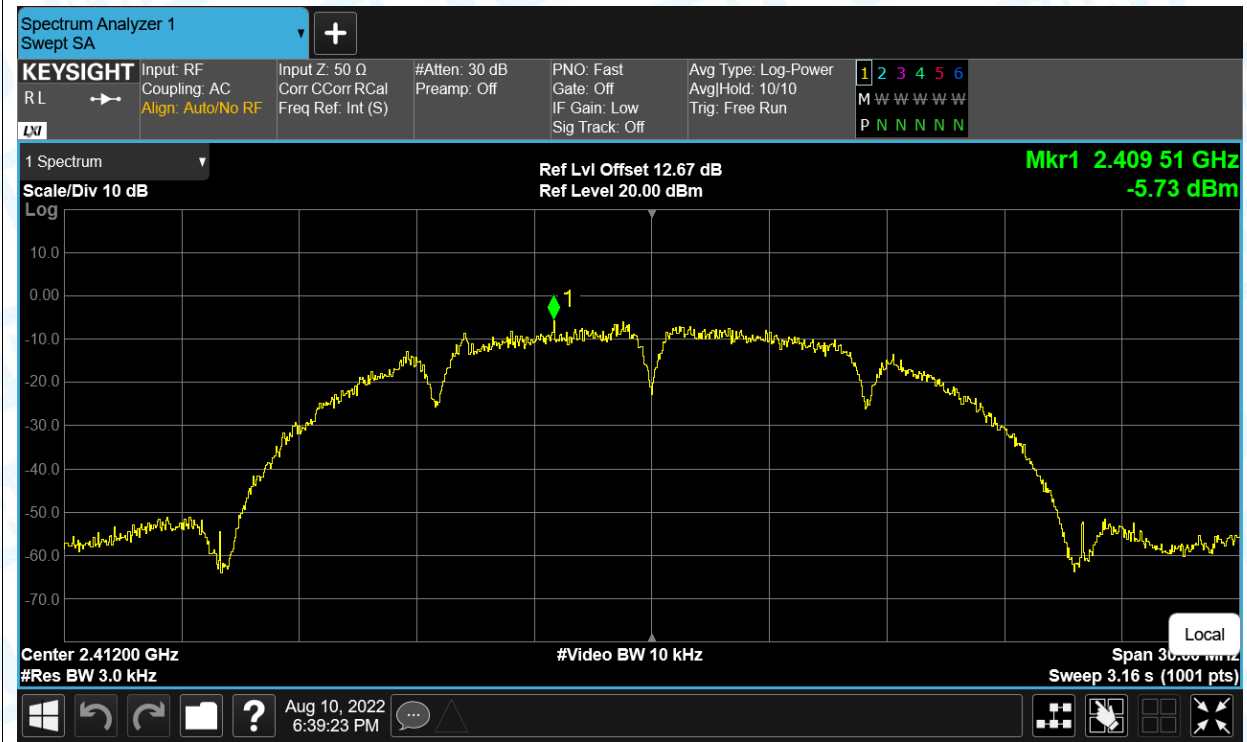


5. Maximum Power Spectral Density Level

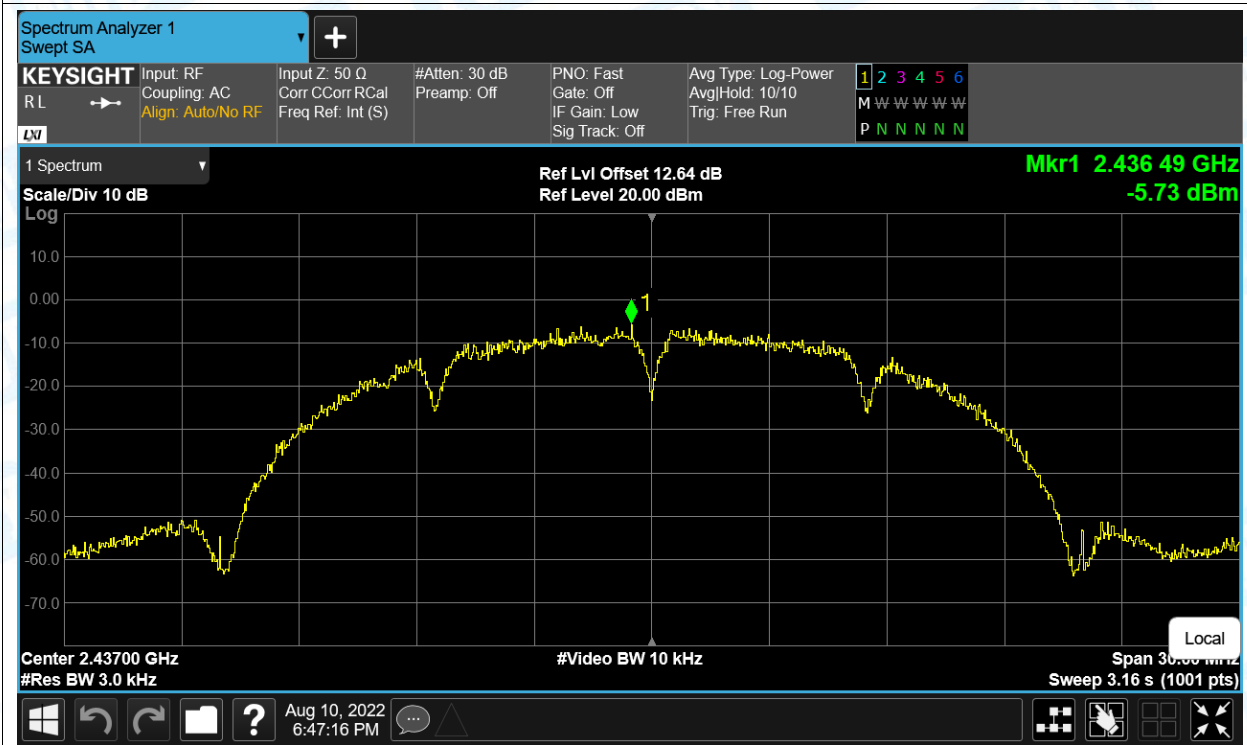
Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm/3KHz)	Limit (dBm/3KHz)	Verdict
NVNT	b	2412	Ant1	-5.732	8	Pass
NVNT	b	2437	Ant1	-5.729	8	Pass
NVNT	b	2462	Ant1	-4.992	8	Pass
NVNT	g	2412	Ant1	-11.668	8	Pass
NVNT	g	2437	Ant1	-12.77	8	Pass
NVNT	g	2462	Ant1	-10.853	8	Pass
NVNT	n(HT20)	2412	Ant1	-12.208	8	Pass
NVNT	n(HT20)	2437	Ant1	-12.959	8	Pass
NVNT	n(HT20)	2462	Ant1	-12.26	8	Pass
NVNT	n(HT40)	2422	Ant1	-16.297	8	Pass
NVNT	n(HT40)	2437	Ant1	-15.588	8	Pass
NVNT	n(HT40)	2452	Ant1	-15.751	8	Pass

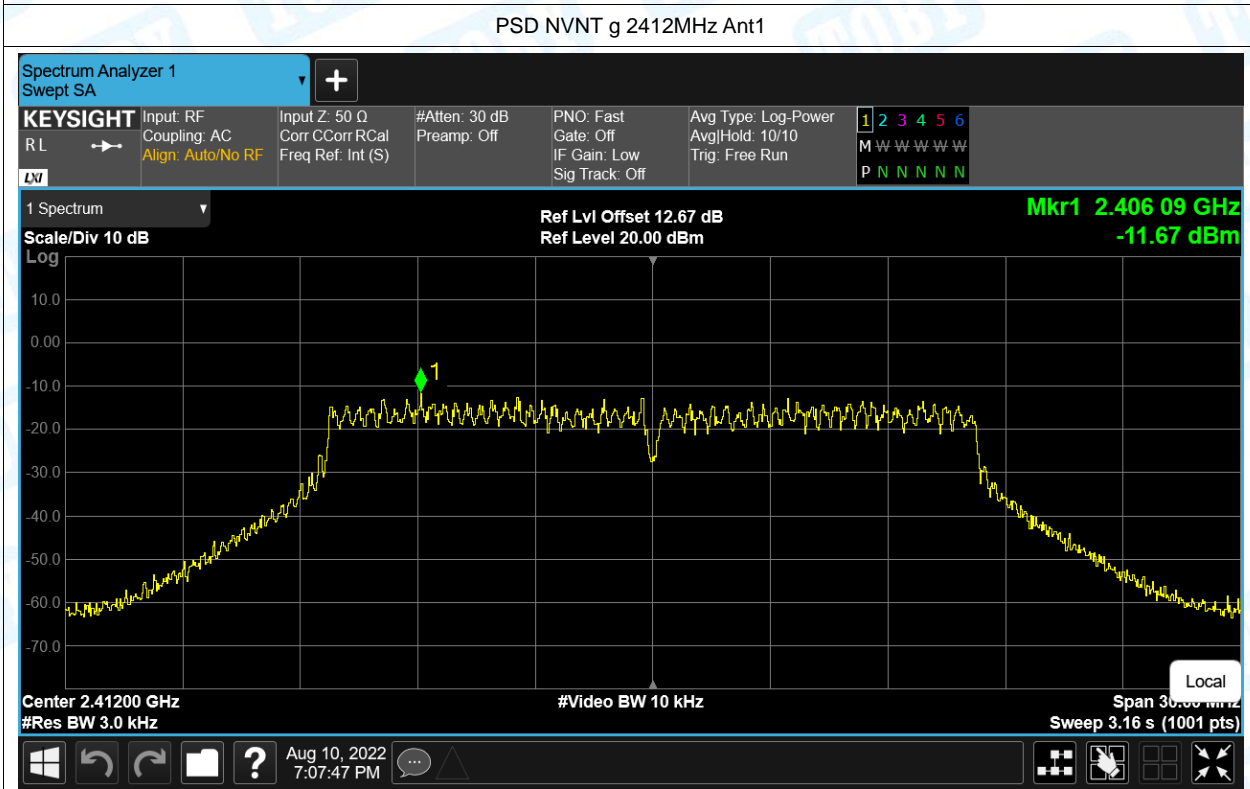
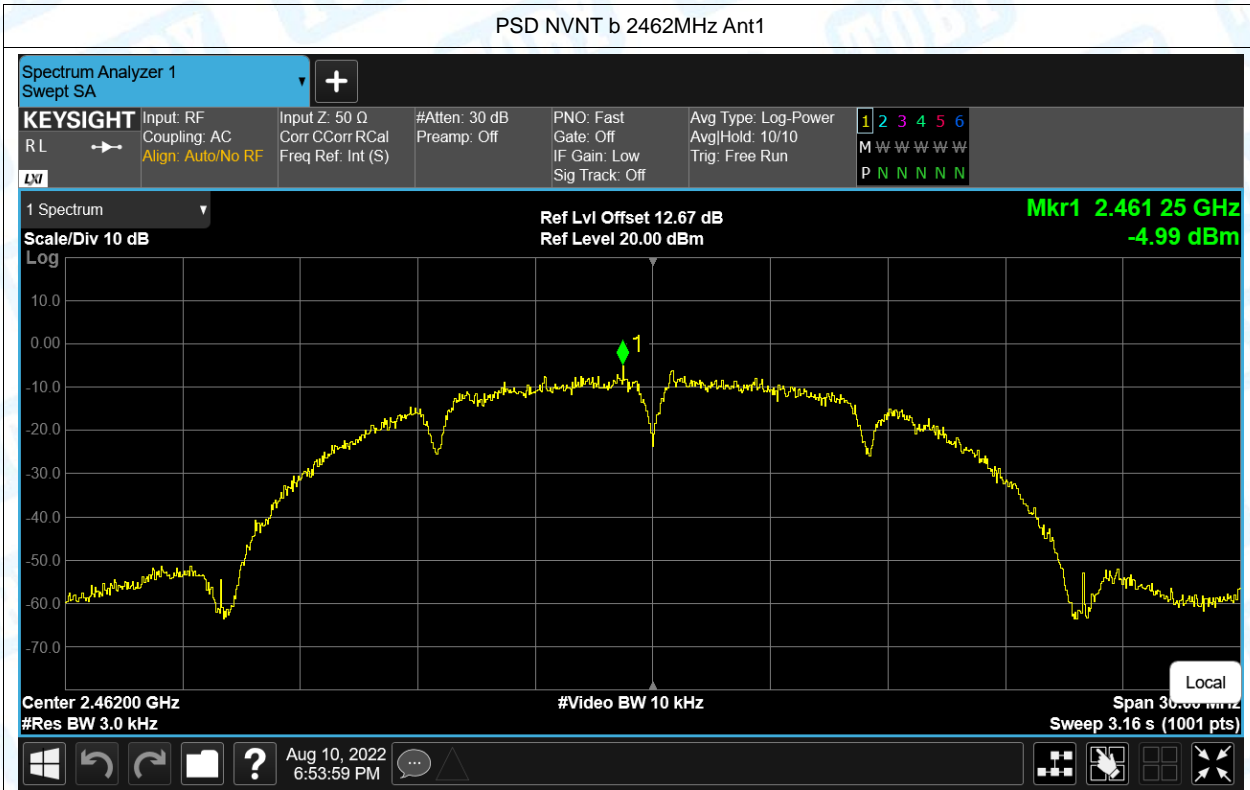
Test Graphs

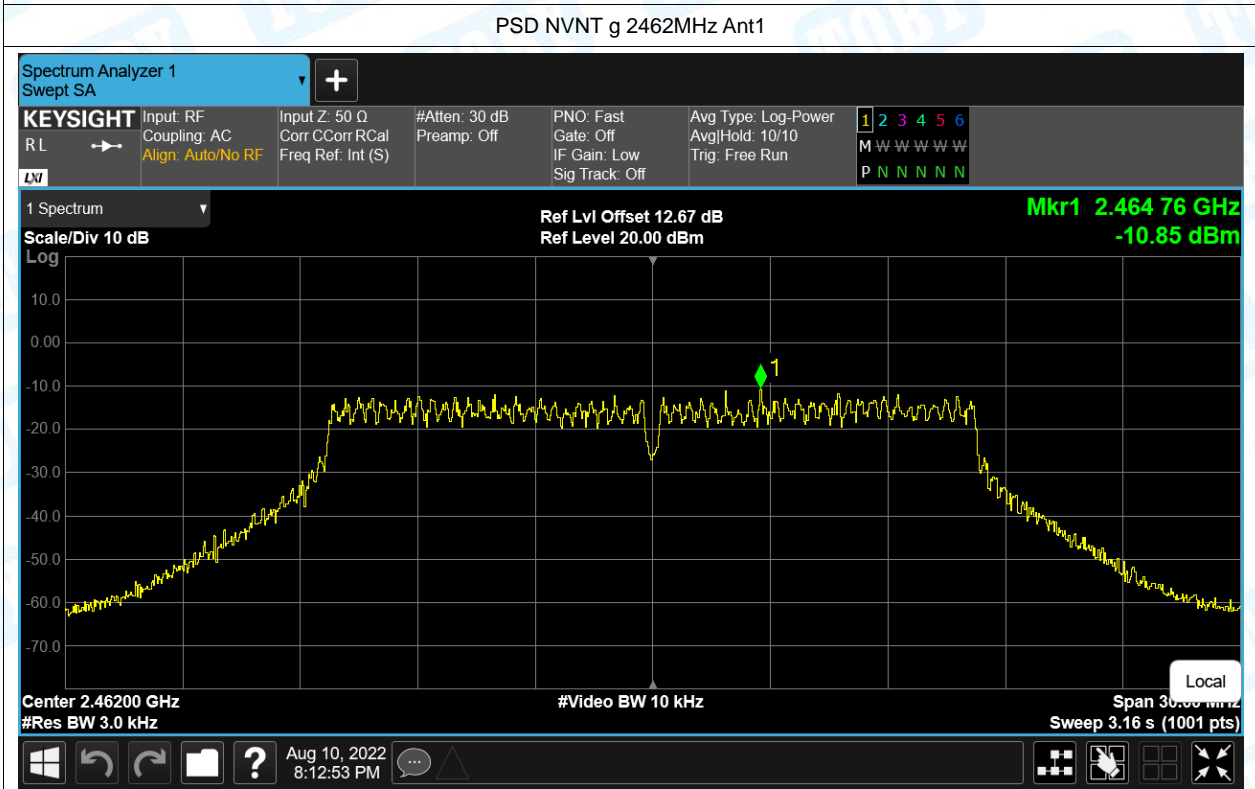
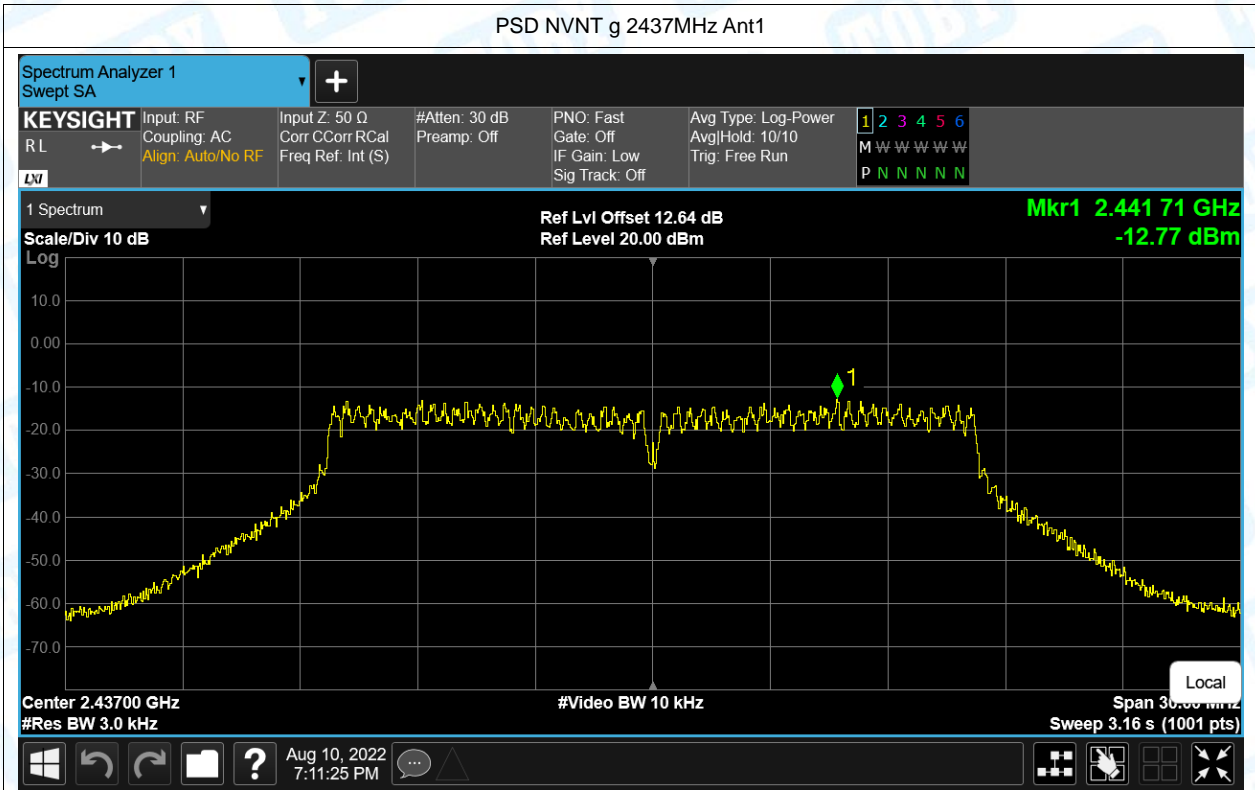
PSD NVNT b 2412MHz Ant1

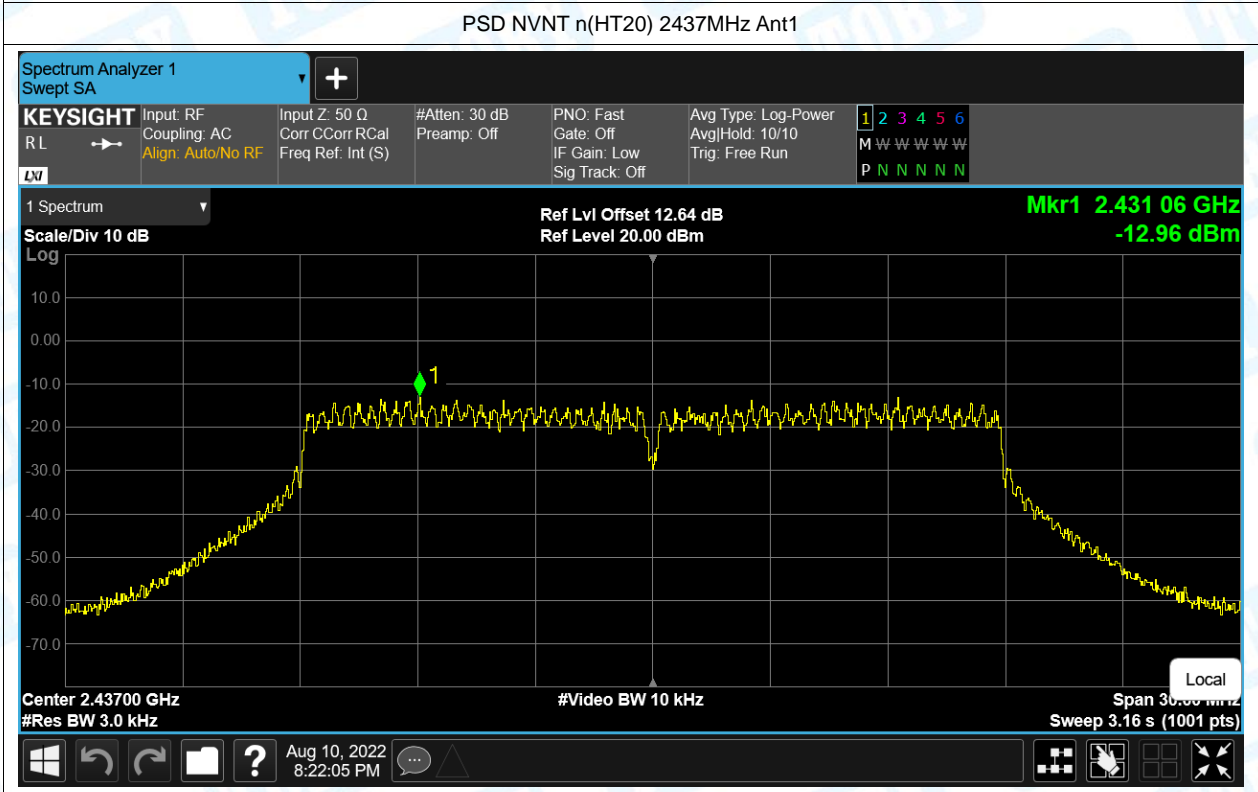
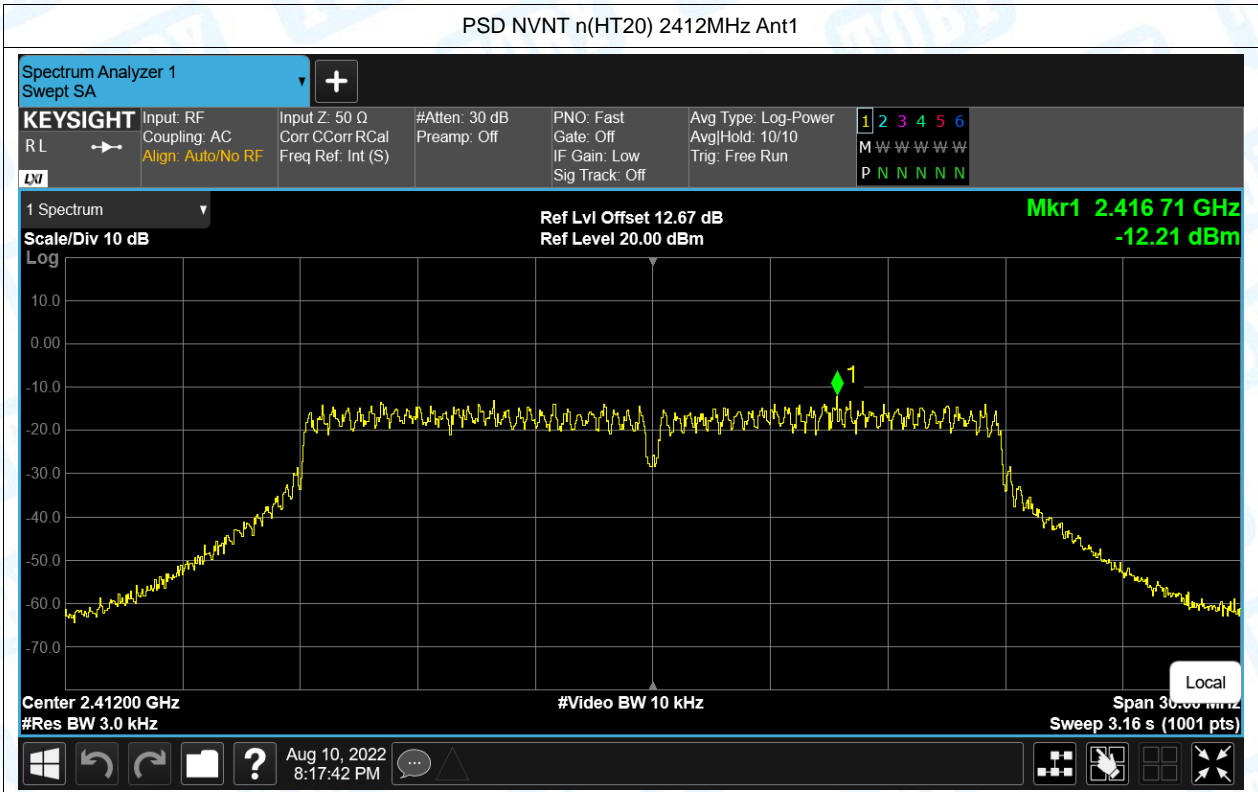


PSD NVNT b 2437MHz Ant1

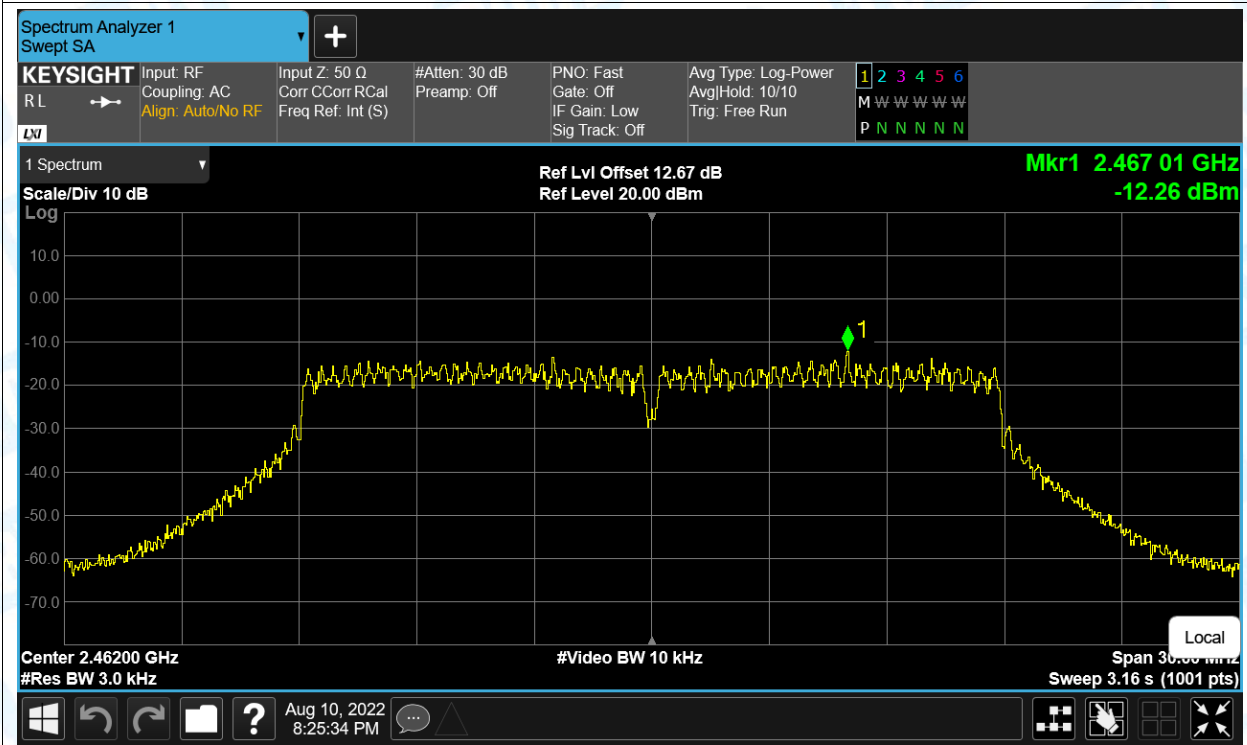




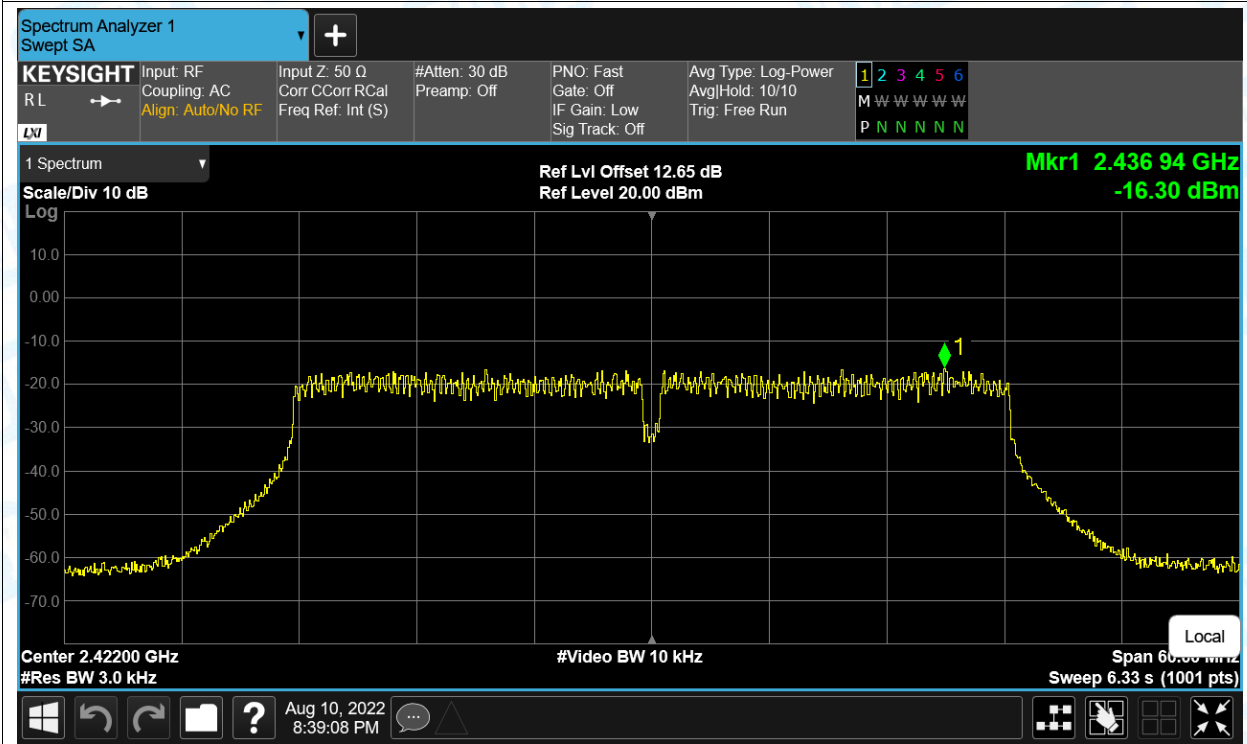


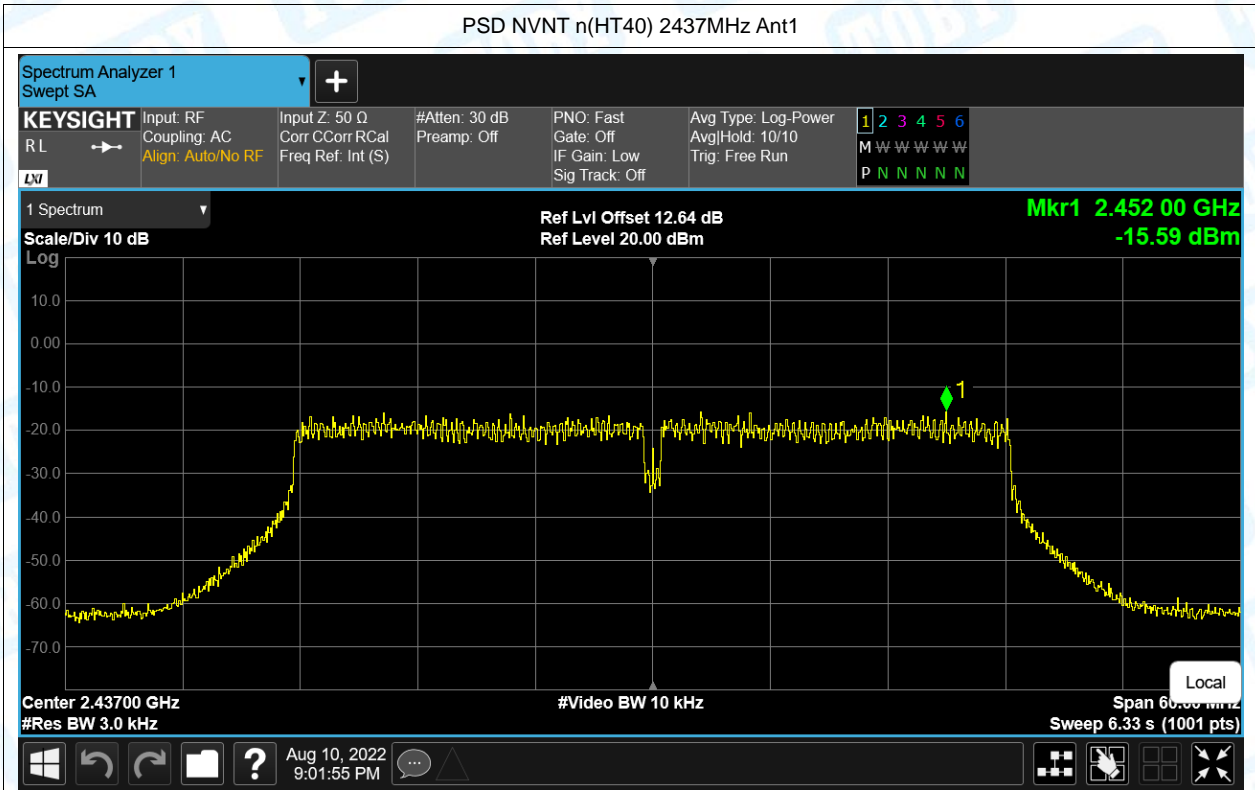


PSD NVNT n(HT20) 2462MHz Ant1



PSD NVNT n(HT40) 2422MHz Ant1



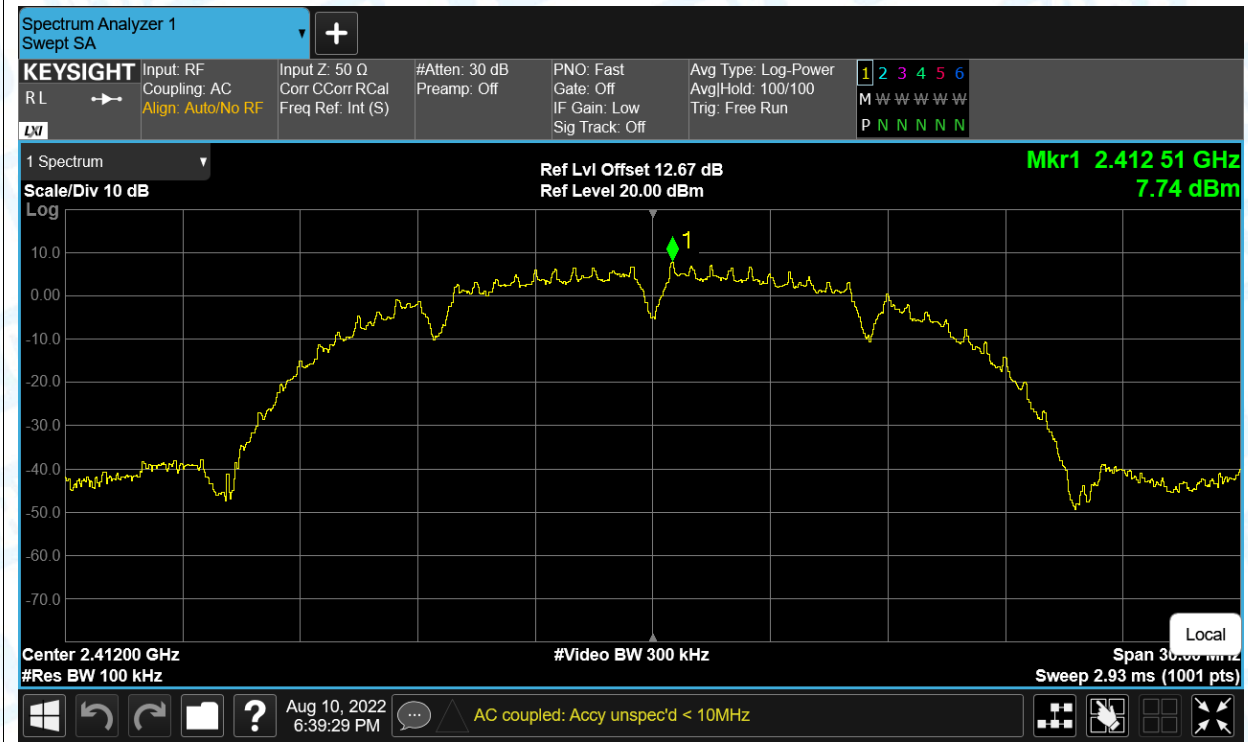


6. Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-53.65	-20	Pass
NVNT	b	2462	Ant1	-52.59	-20	Pass
NVNT	g	2412	Ant1	-45.6	-20	Pass
NVNT	g	2462	Ant1	-47.08	-20	Pass
NVNT	n(HT20)	2412	Ant1	-46.21	-20	Pass
NVNT	n(HT20)	2462	Ant1	-46.7	-20	Pass
NVNT	n(HT40)	2422	Ant1	-44.71	-20	Pass
NVNT	n(HT40)	2452	Ant1	-43.03	-20	Pass

Test Graphs

Band Edge NVNT b 2412MHz Ant1 Ref



Band Edge NVNT b 2412MHz Ant1 Emission

