

RF Test Data for 2.4G WiFi (Conducted Measurements)

General Description of EUT	
Product Name:	RUGGEDIZED HAND-HELD DEVICE
Test Model:	CHAMELEON 7
Sample ID:	202202_0108-01-2
Environmental Conditions	
Temperature:	25°C
Relative Humidity:	55%
Test Voltage:	DC 3.85V
Test Engineer:	Huang jian ping
Note: For a more detailed features description, please refer to the report TBR-C-202202-0108-311	

Contents

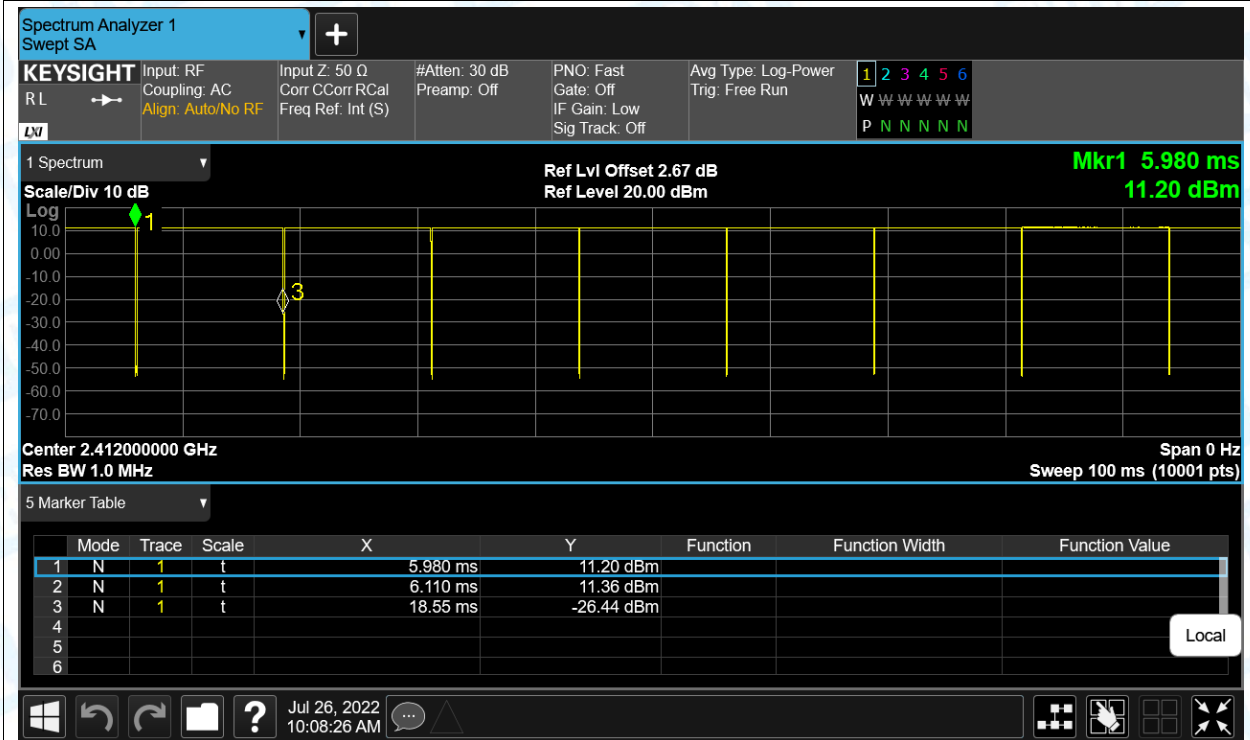
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1. Duty Cycle

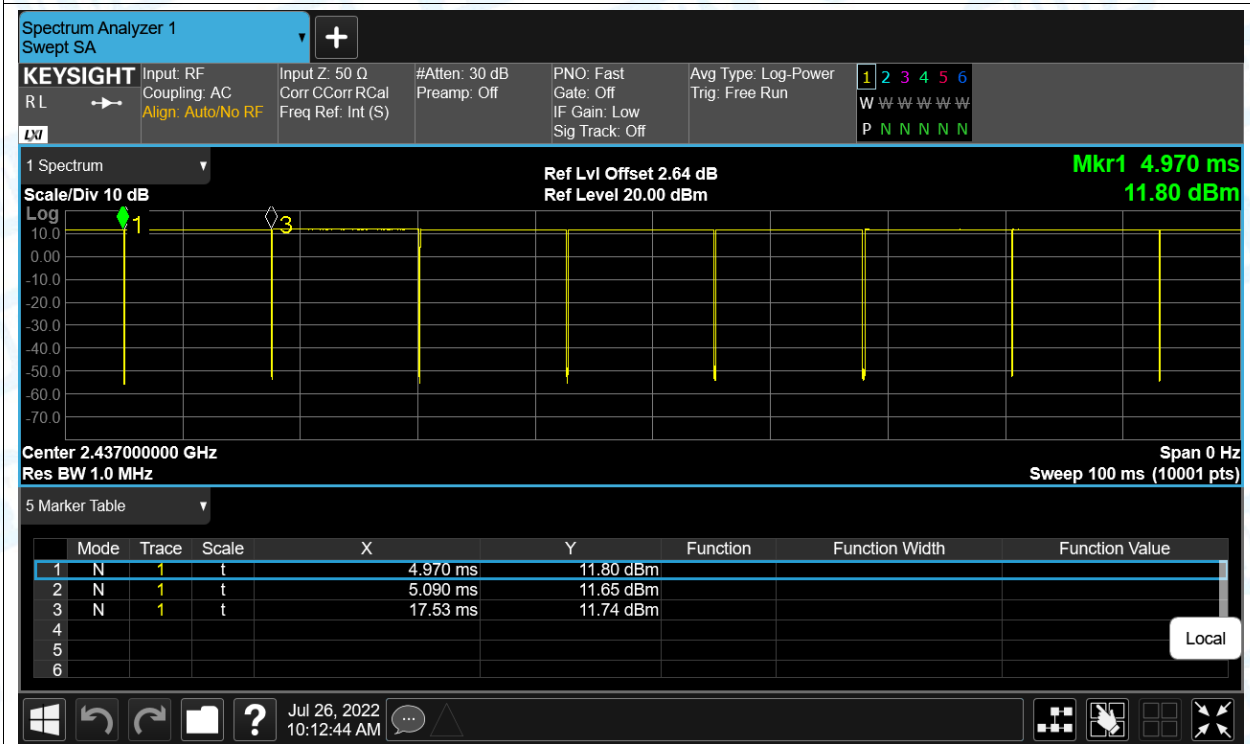
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	Ant1	99.15	0.04	0.08
NVNT	b	2437	Ant1	98.92	0.05	0.08
NVNT	b	2462	Ant1	98.89	0.05	0.08
NVNT	g	2412	Ant1	98.85	0.05	0.48
NVNT	g	2437	Ant1	98.85	0.05	0.49
NVNT	g	2462	Ant1	98.8	0.05	0.48
NVNT	n(HT20)	2412	Ant1	98.78	0.05	0.52
NVNT	n(HT20)	2437	Ant1	98.77	0.05	0.52
NVNT	n(HT20)	2462	Ant1	98.77	0.05	0.52
NVNT	n(HT40)	2422	Ant1	96.14	0.17	1.05
NVNT	n(HT40)	2437	Ant1	96.19	0.17	1.05
NVNT	n(HT40)	2452	Ant1	96.18	0.17	1.05

Test Graphs

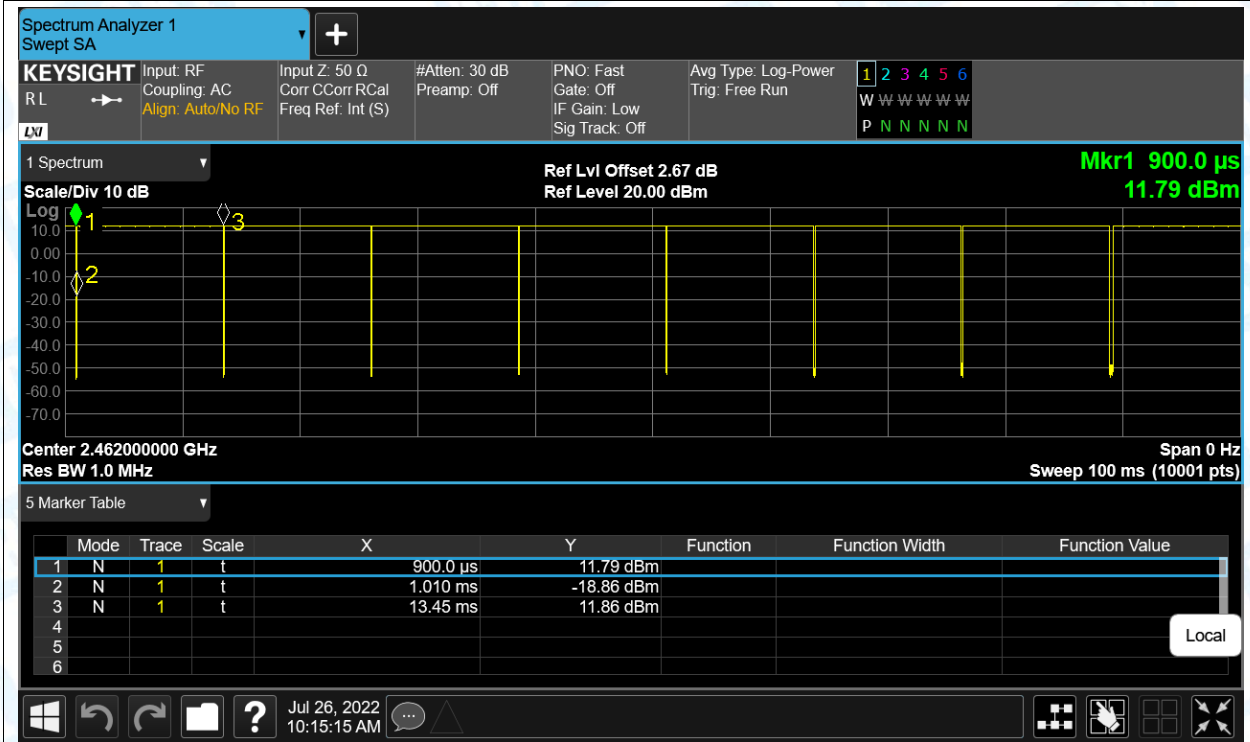
Duty Cycle NVNT b 2412MHz Ant1



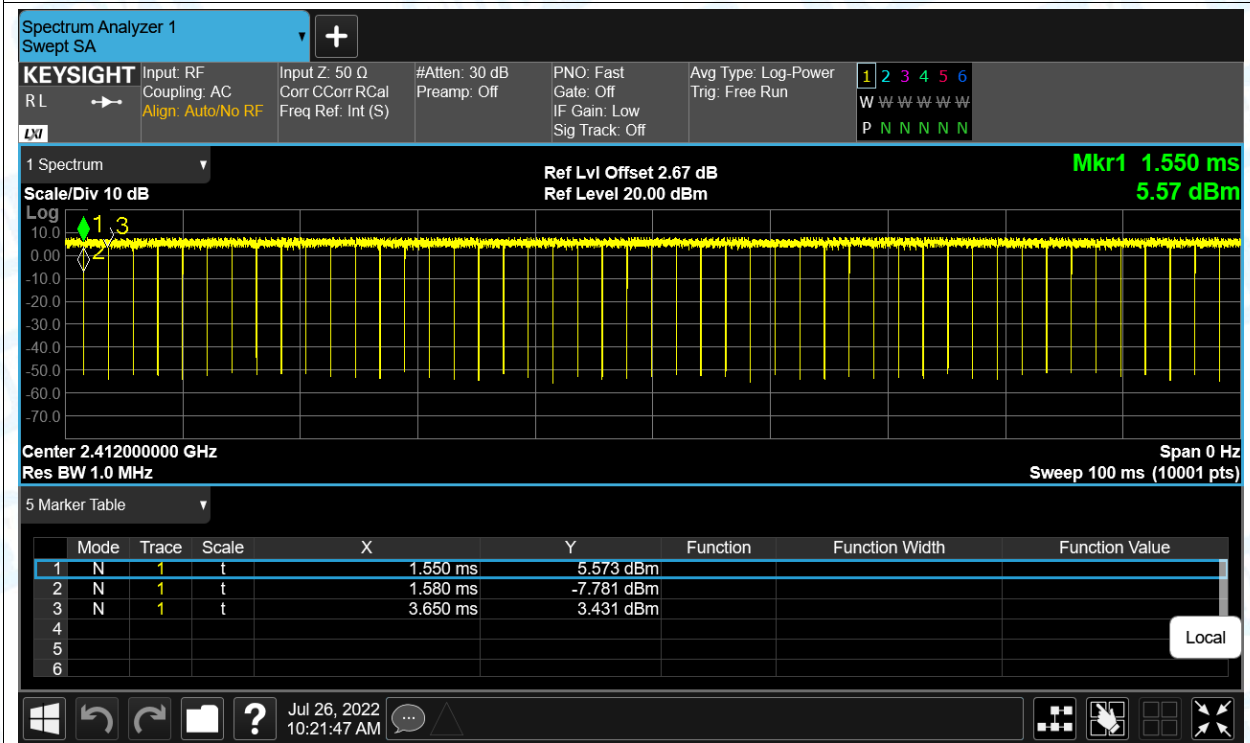
Duty Cycle NVNT b 2437MHz Ant1



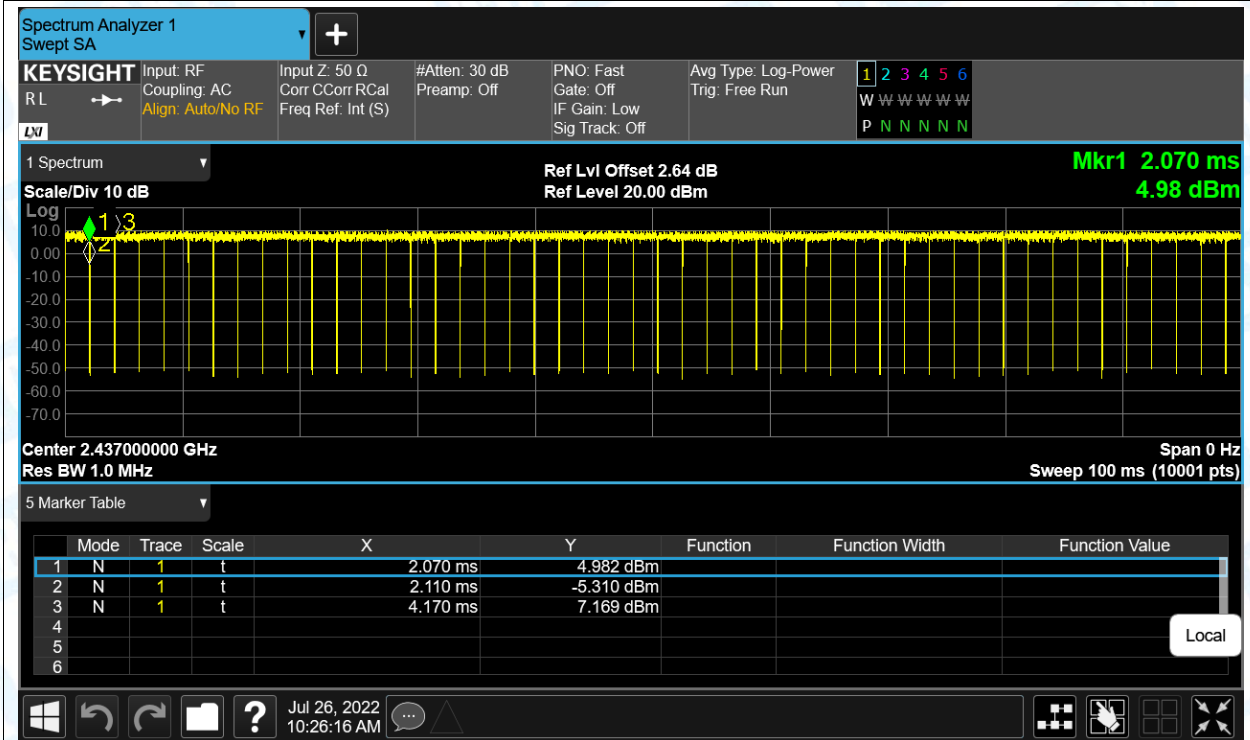
Duty Cycle NVNT b 2462MHz Ant1



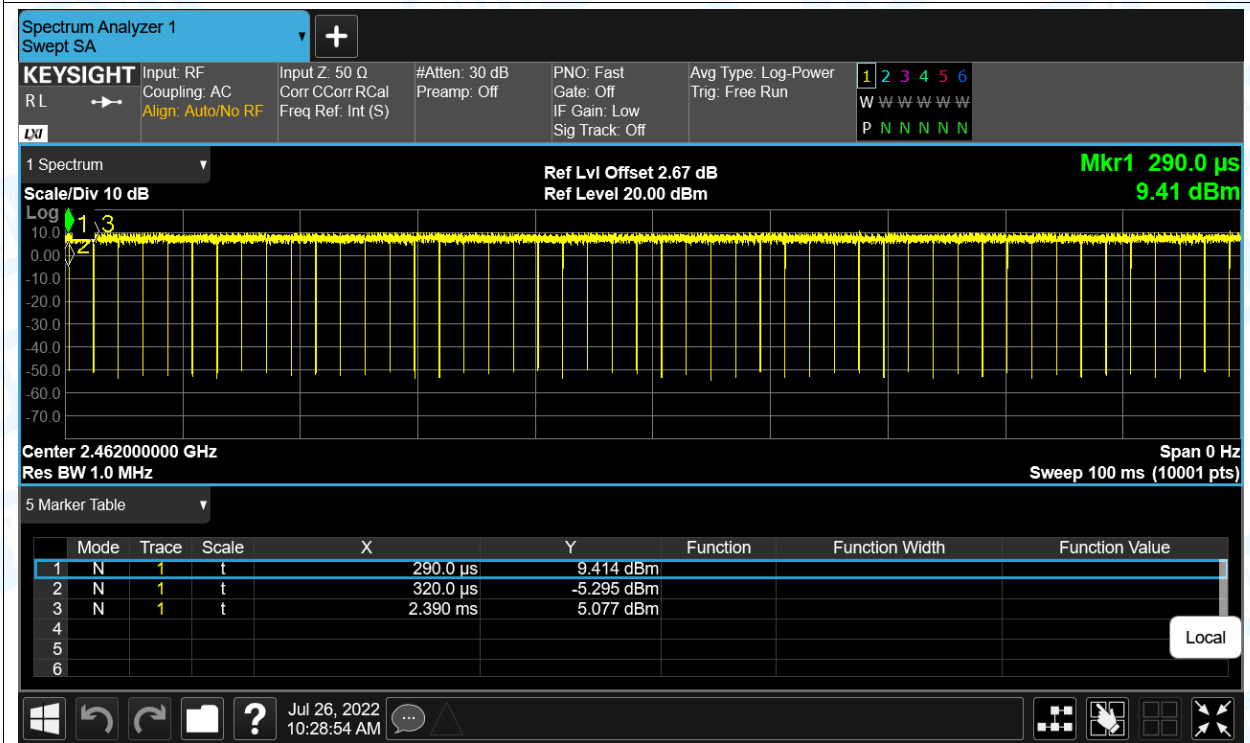
Duty Cycle NVNT g 2412MHz Ant1

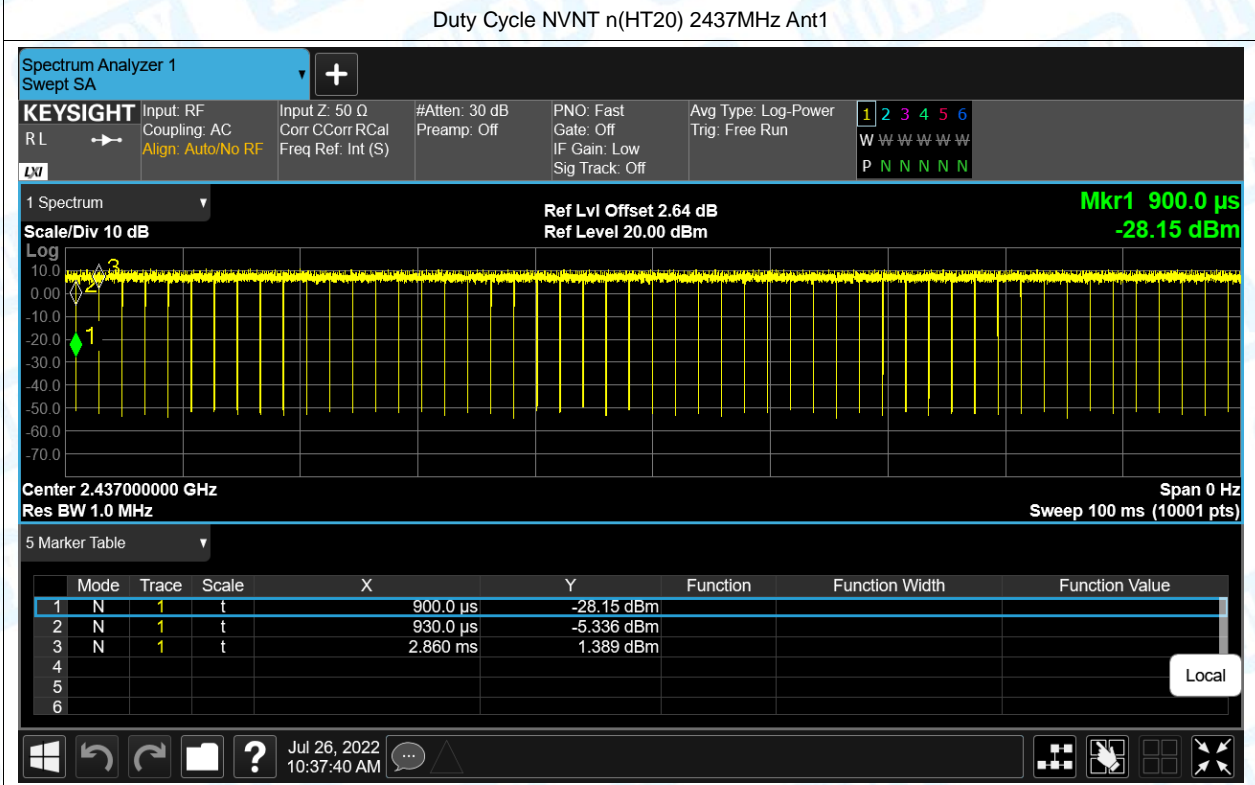
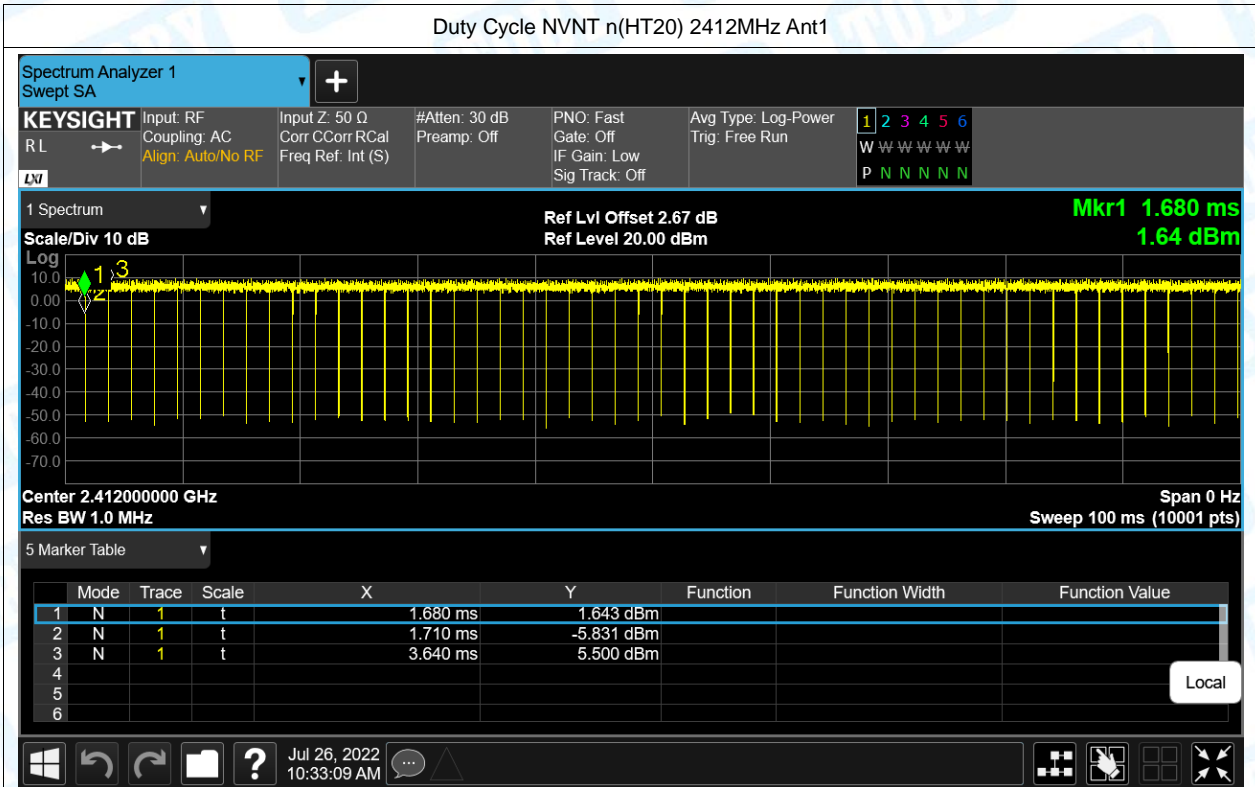


Duty Cycle NVNT g 2437MHz Ant1

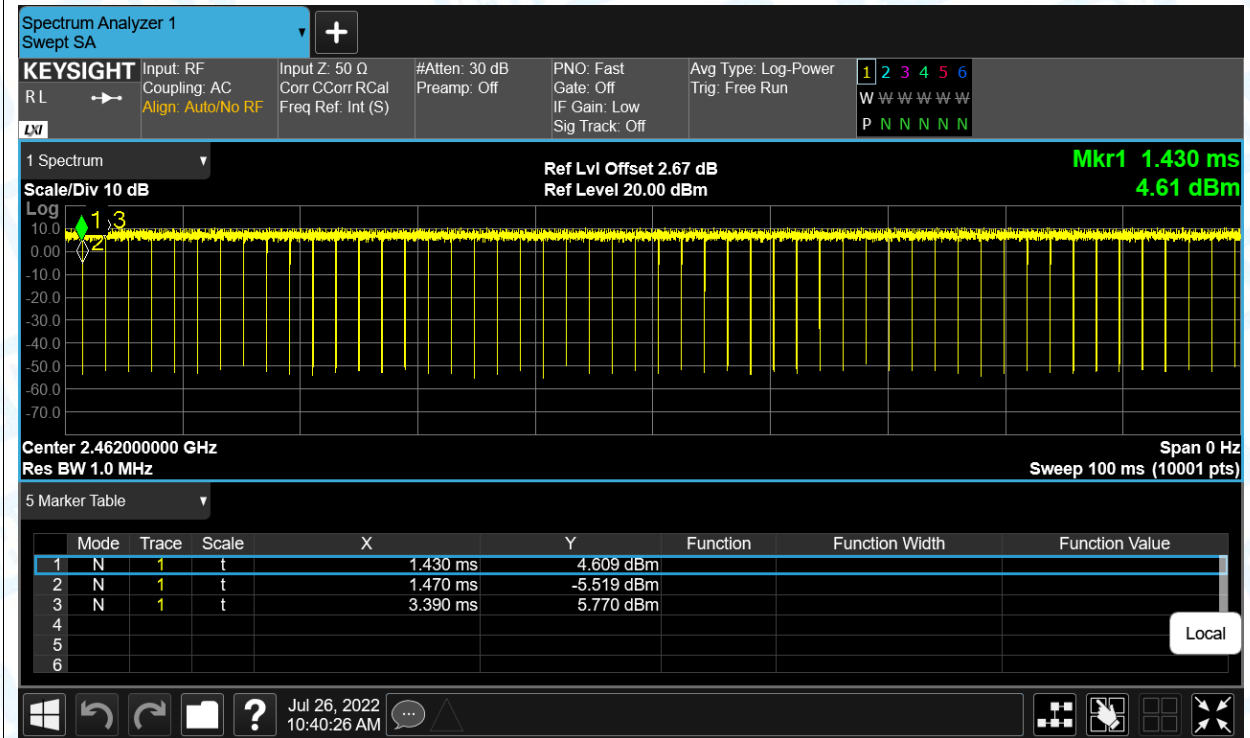


Duty Cycle NVNT g 2462MHz Ant1

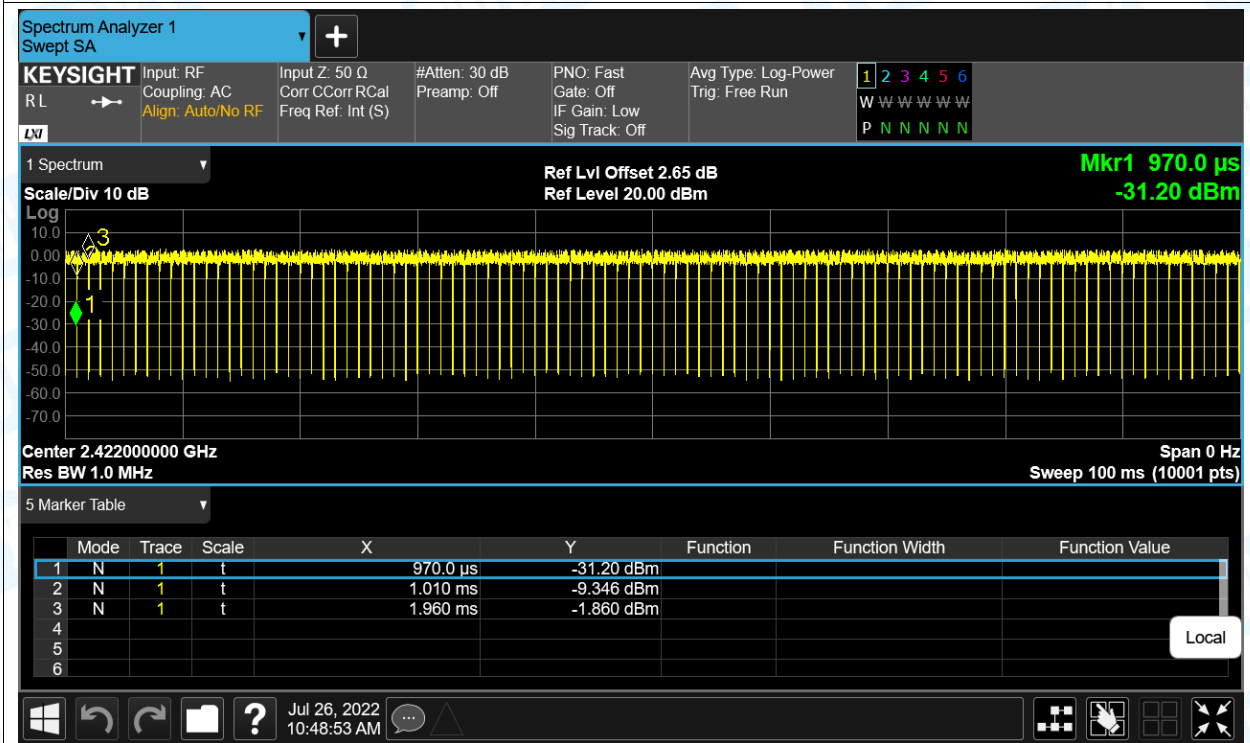




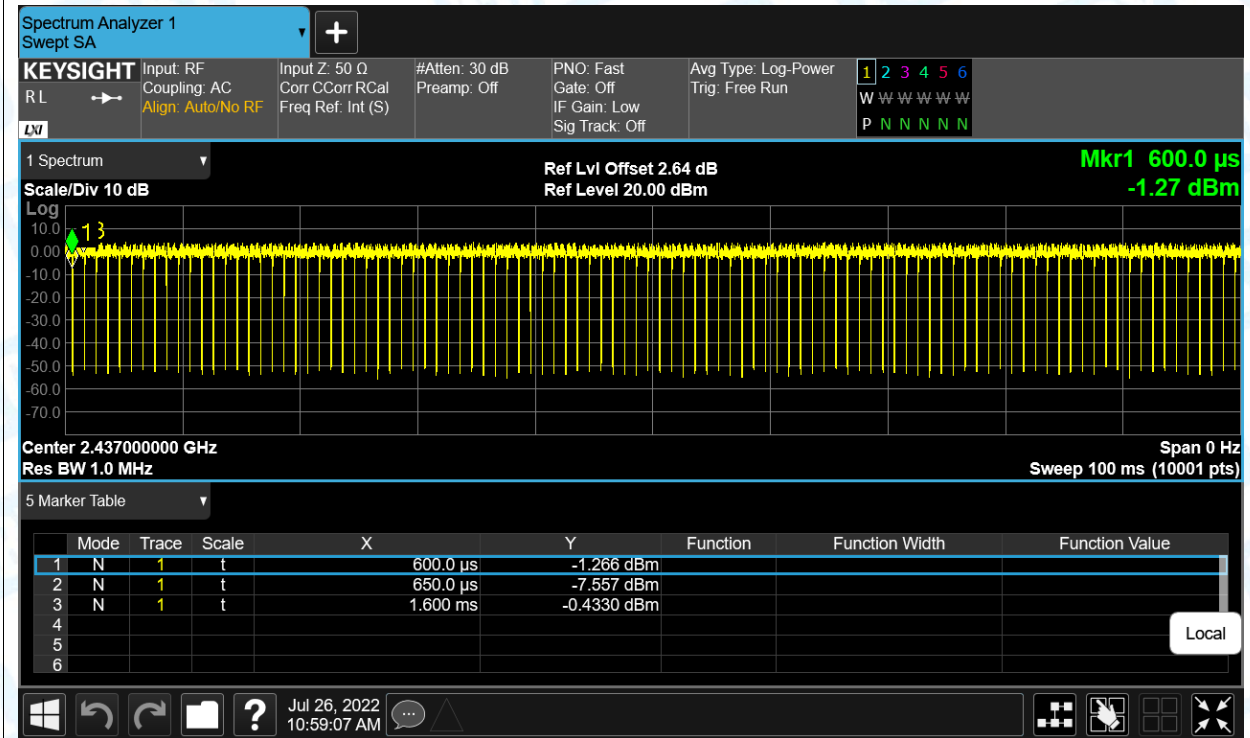
Duty Cycle NVNT n(HT20) 2462MHz Ant1



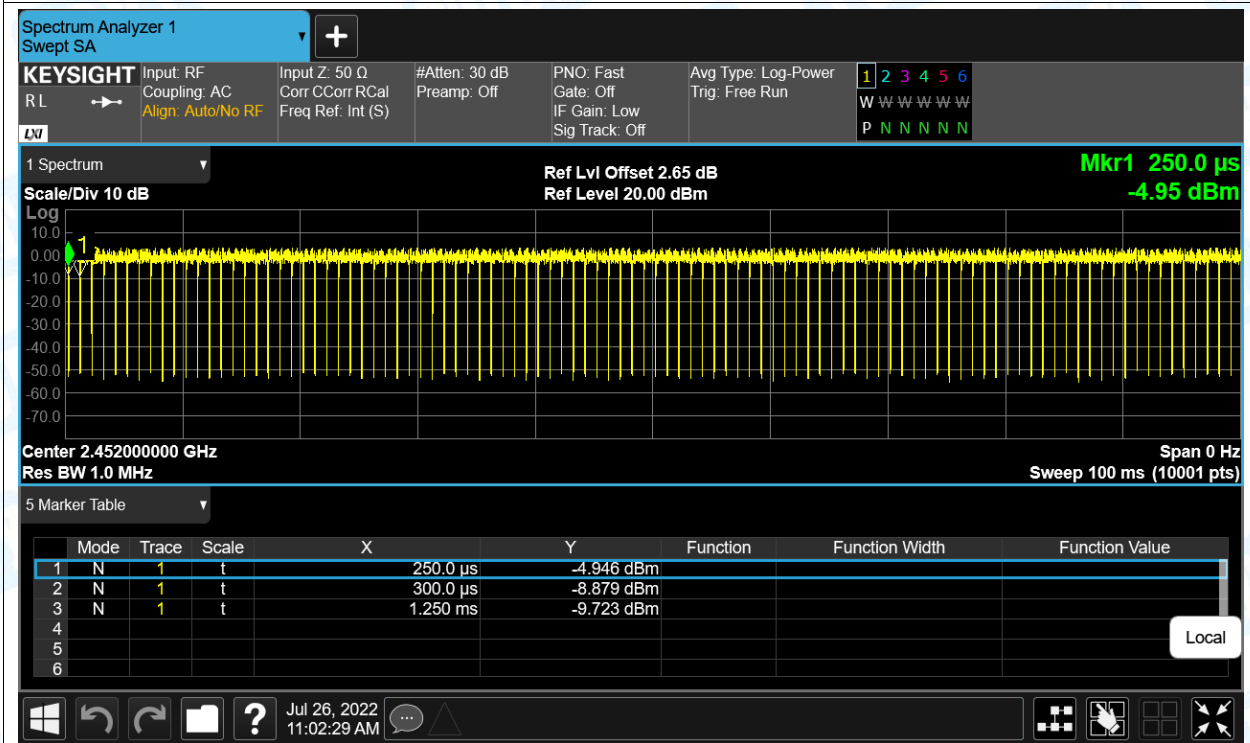
Duty Cycle NVNT n(HT40) 2422MHz Ant1



Duty Cycle NVNT n(HT40) 2437MHz Ant1



Duty Cycle NVNT n(HT40) 2452MHz Ant1



2. Maximum Conducted Output Power

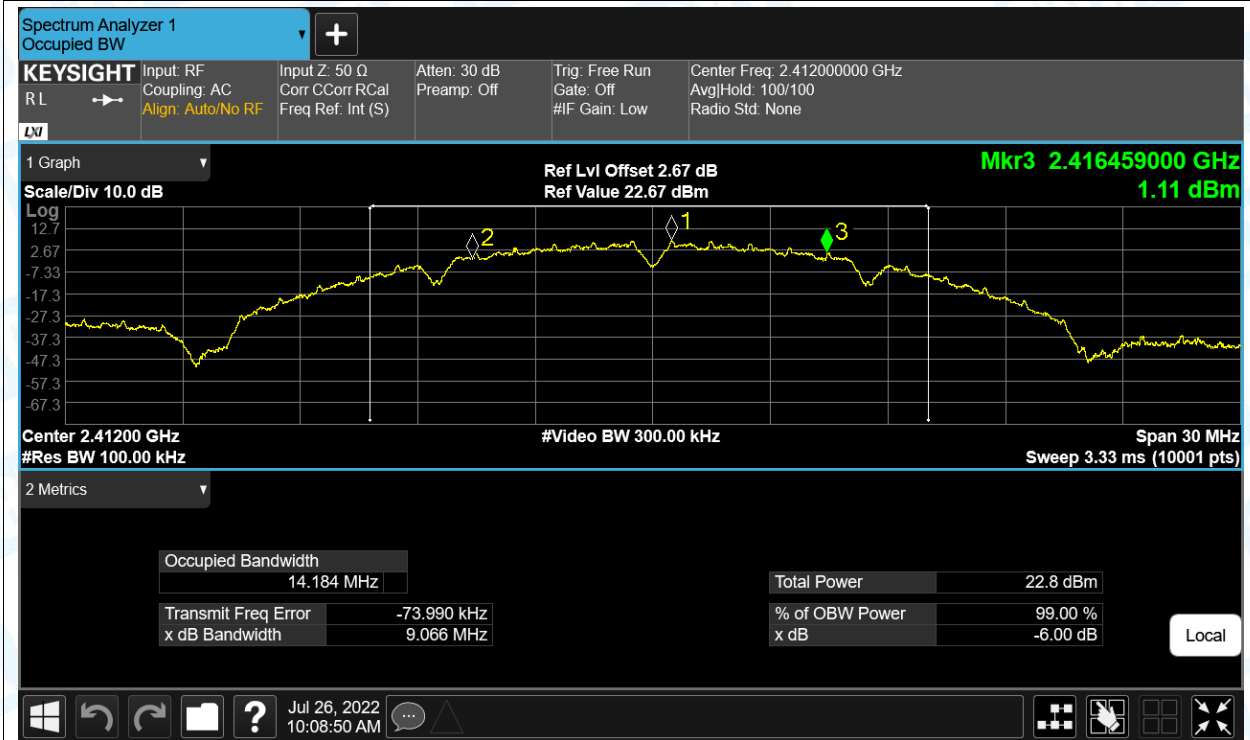
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	18.204	30	Pass
NVNT	b	2437	Ant1	16.95	30	Pass
NVNT	b	2462	Ant1	18.906	30	Pass
NVNT	g	2412	Ant1	17.94	30	Pass
NVNT	g	2437	Ant1	18.746	30	Pass
NVNT	g	2462	Ant1	18.833	30	Pass
NVNT	n(HT20)	2412	Ant1	17.848	30	Pass
NVNT	n(HT20)	2437	Ant1	18.583	30	Pass
NVNT	n(HT20)	2462	Ant1	18.832	30	Pass
NVNT	n(HT40)	2422	Ant1	17.123	30	Pass
NVNT	n(HT40)	2437	Ant1	17.509	30	Pass
NVNT	n(HT40)	2452	Ant1	17.702	30	Pass

3. -6dB Bandwidth

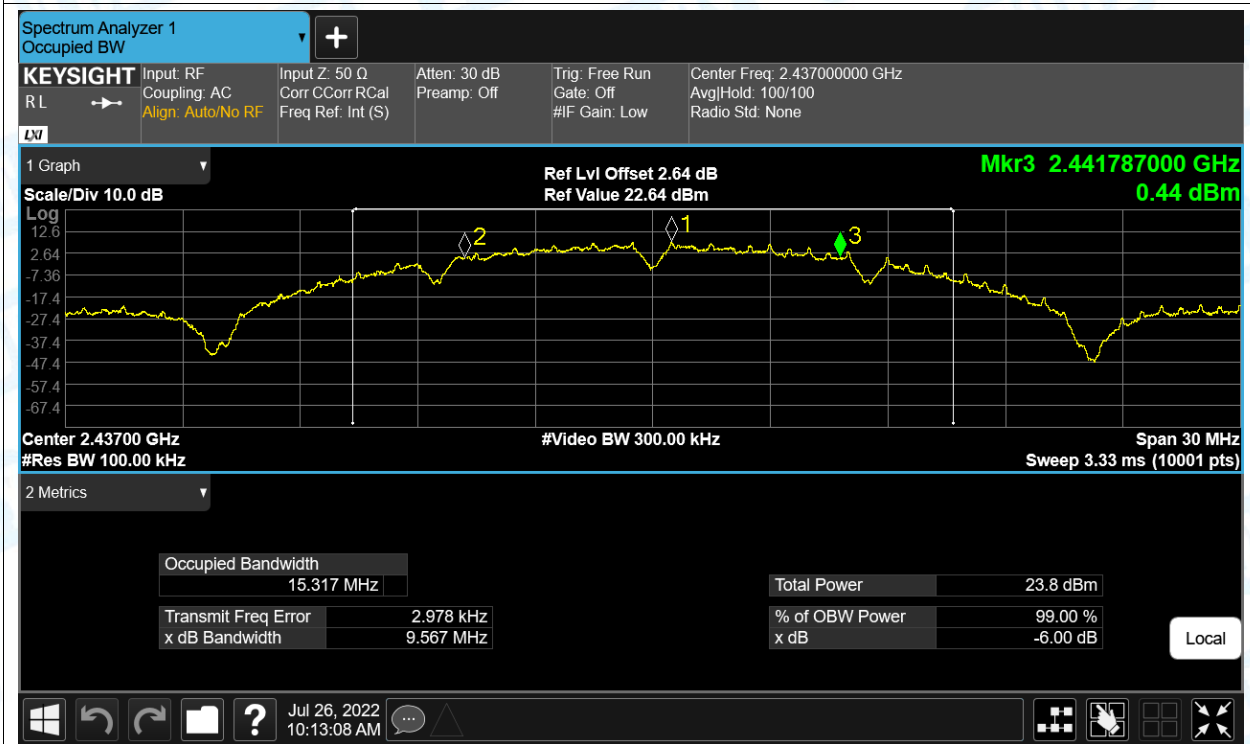
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	9.07	0.5	Pass
NVNT	b	2437	Ant1	9.57	0.5	Pass
NVNT	b	2462	Ant1	9.08	0.5	Pass
NVNT	g	2412	Ant1	16.26	0.5	Pass
NVNT	g	2437	Ant1	15.68	0.5	Pass
NVNT	g	2462	Ant1	16.09	0.5	Pass
NVNT	n(HT20)	2412	Ant1	17.28	0.5	Pass
NVNT	n(HT20)	2437	Ant1	16.36	0.5	Pass
NVNT	n(HT20)	2462	Ant1	16.96	0.5	Pass
NVNT	n(HT40)	2422	Ant1	35.36	0.5	Pass
NVNT	n(HT40)	2437	Ant1	35.08	0.5	Pass
NVNT	n(HT40)	2452	Ant1	35.3	0.5	Pass

Test Graphs

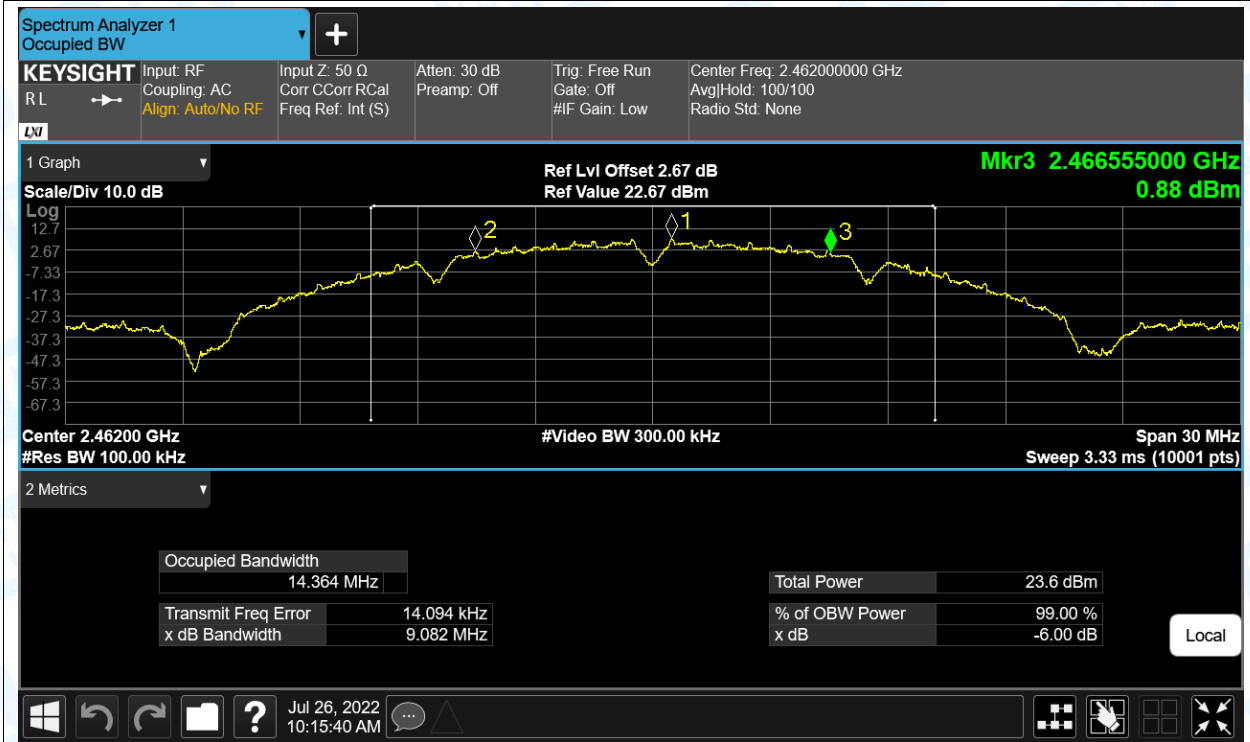
-6dB Bandwidth NVNT b 2412MHz Ant1



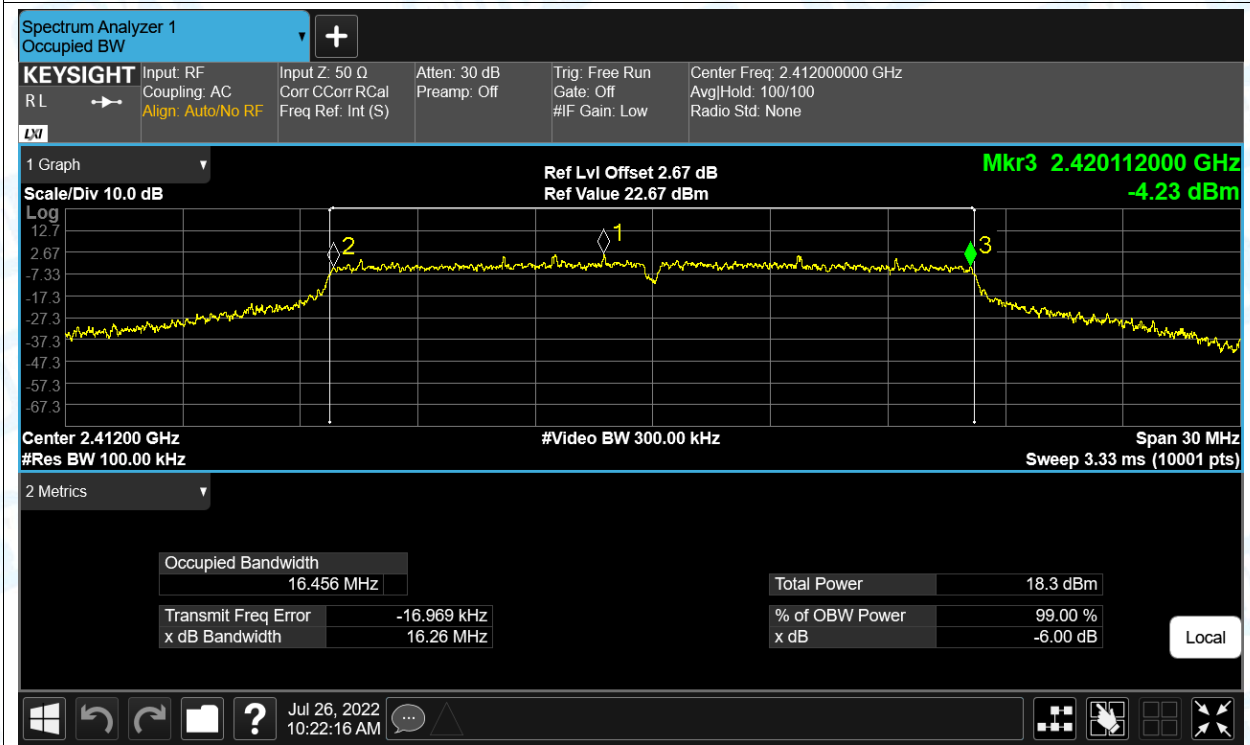
-6dB Bandwidth NVNT b 2437MHz Ant1



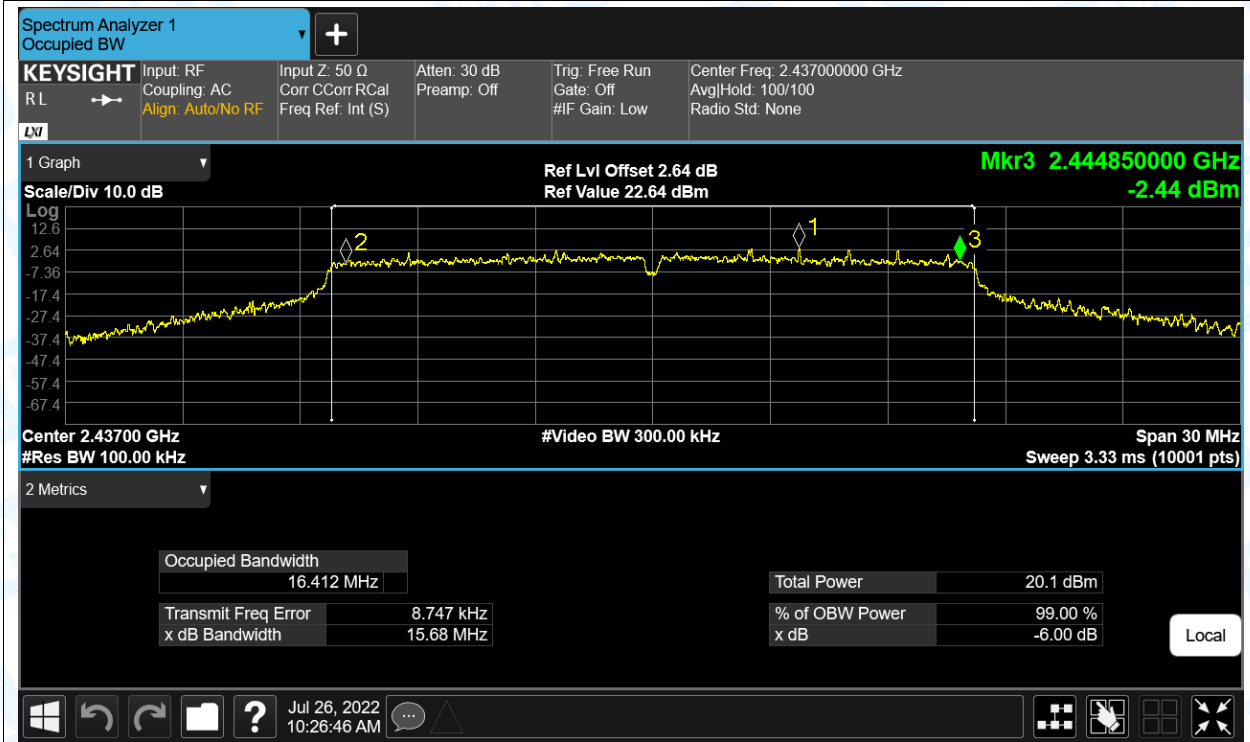
-6dB Bandwidth NVNT b 2462MHz Ant1



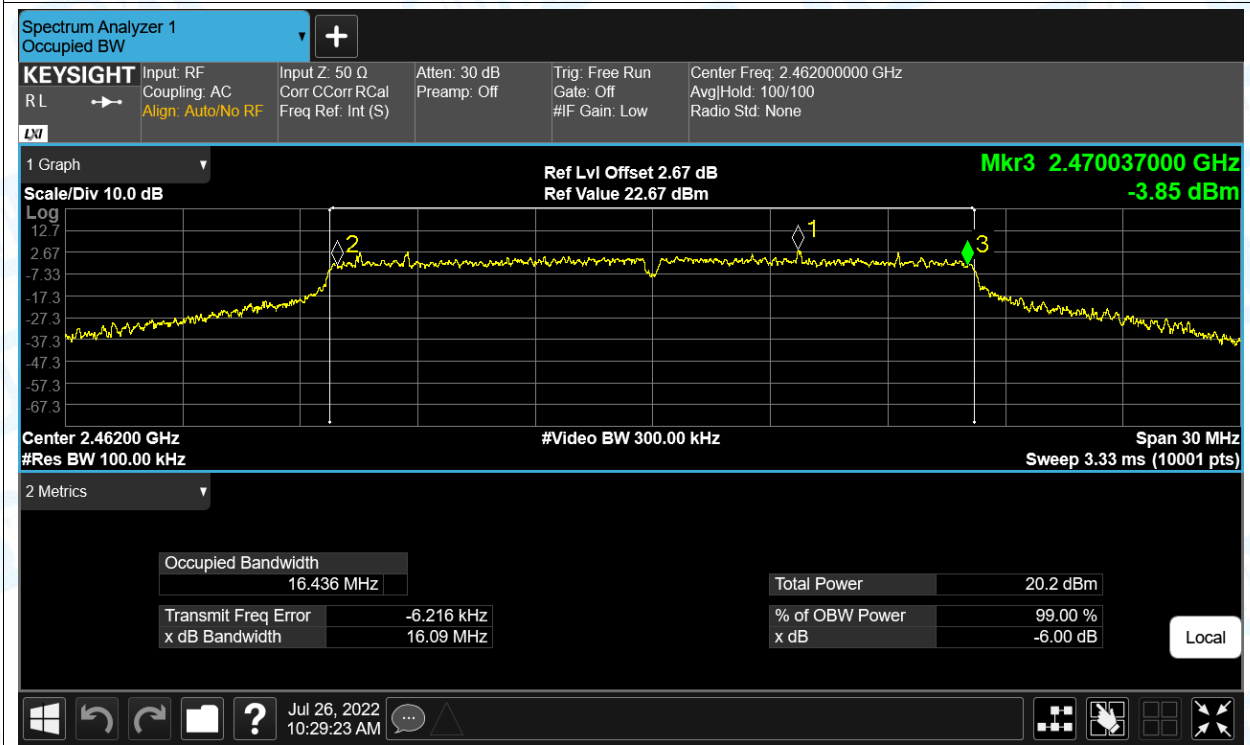
-6dB Bandwidth NVNT g 2412MHz Ant1



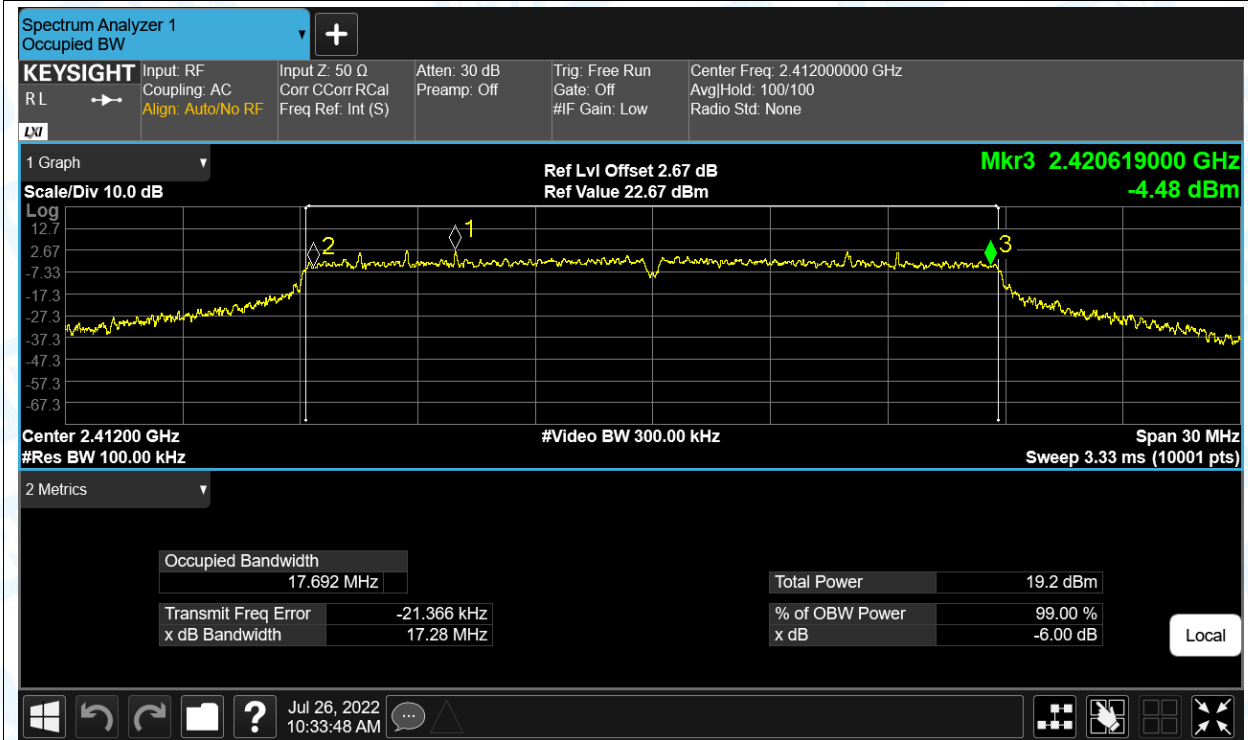
-6dB Bandwidth NVNT g 2437MHz Ant1



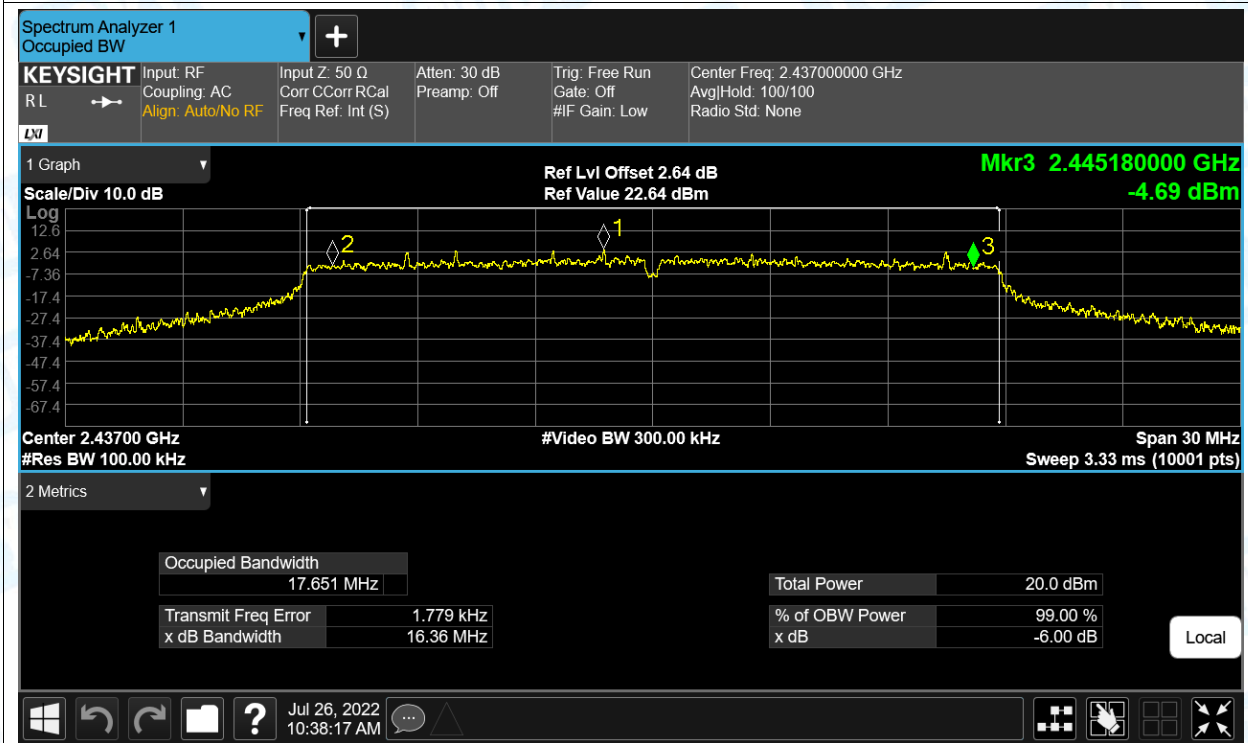
-6dB Bandwidth NVNT g 2462MHz Ant1



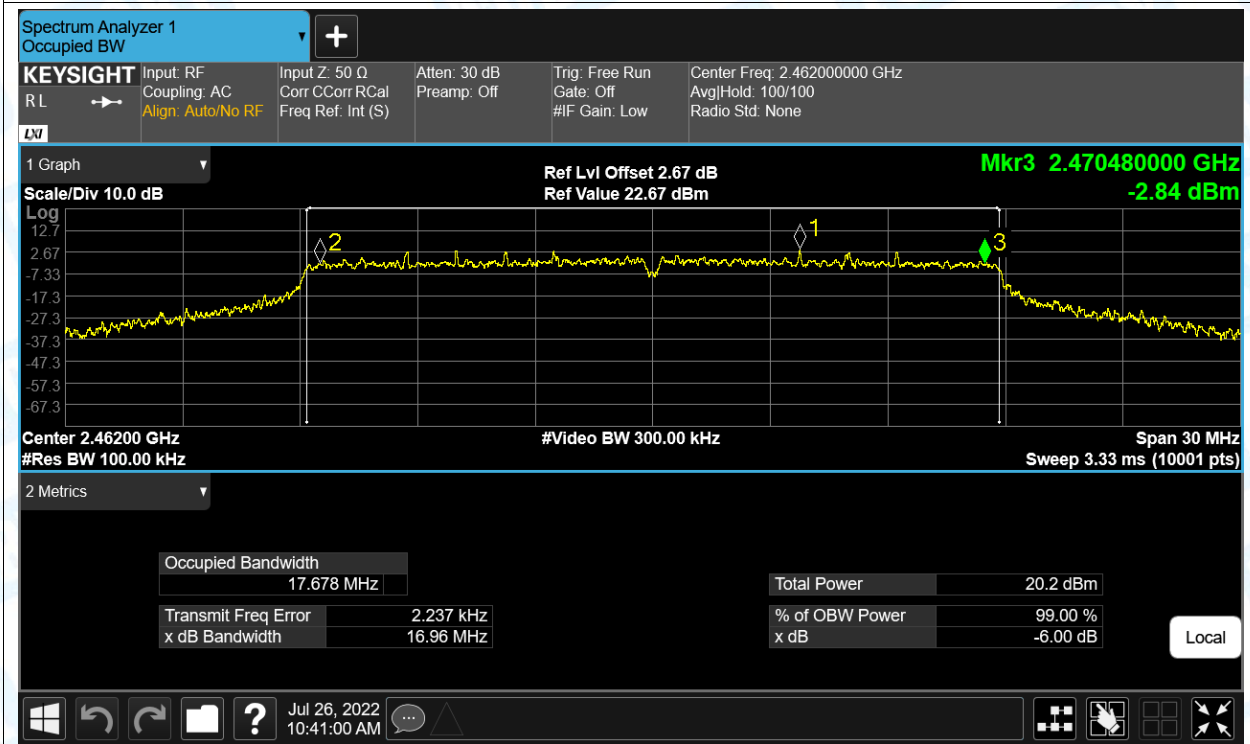
-6dB Bandwidth NVNT n(HT20) 2412MHz Ant1



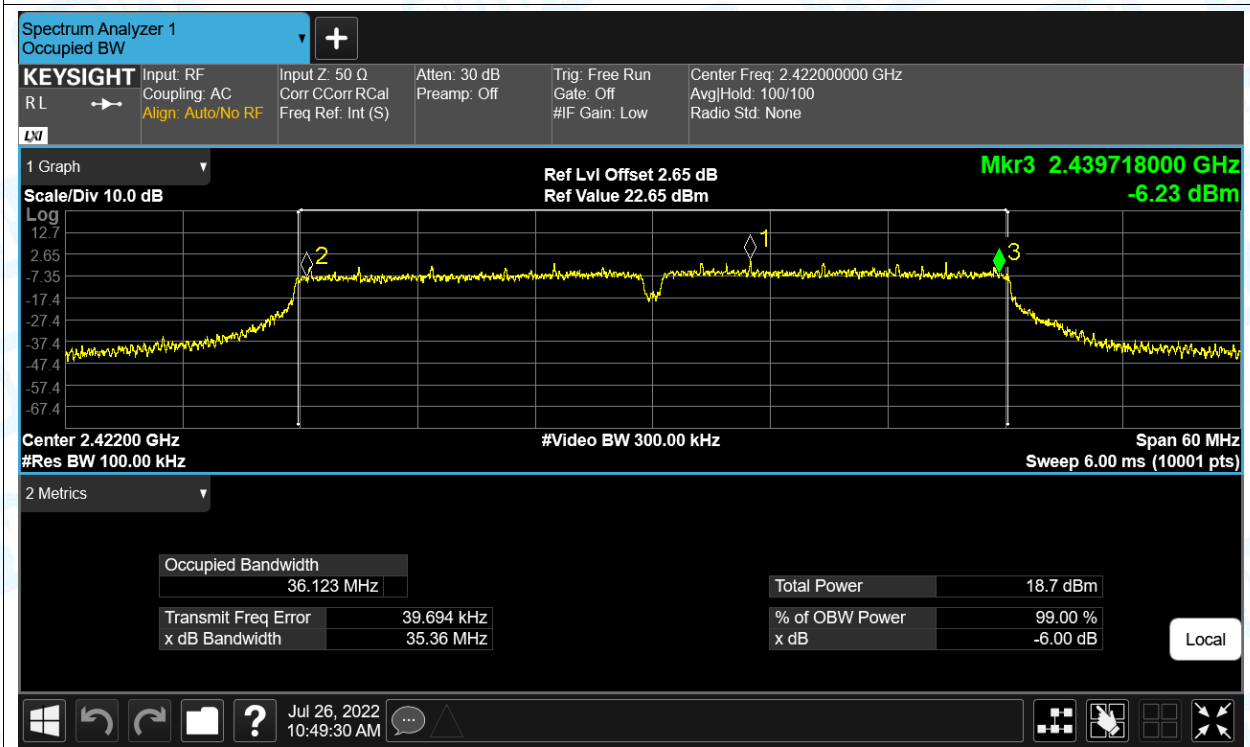
-6dB Bandwidth NVNT n(HT20) 2437MHz Ant1



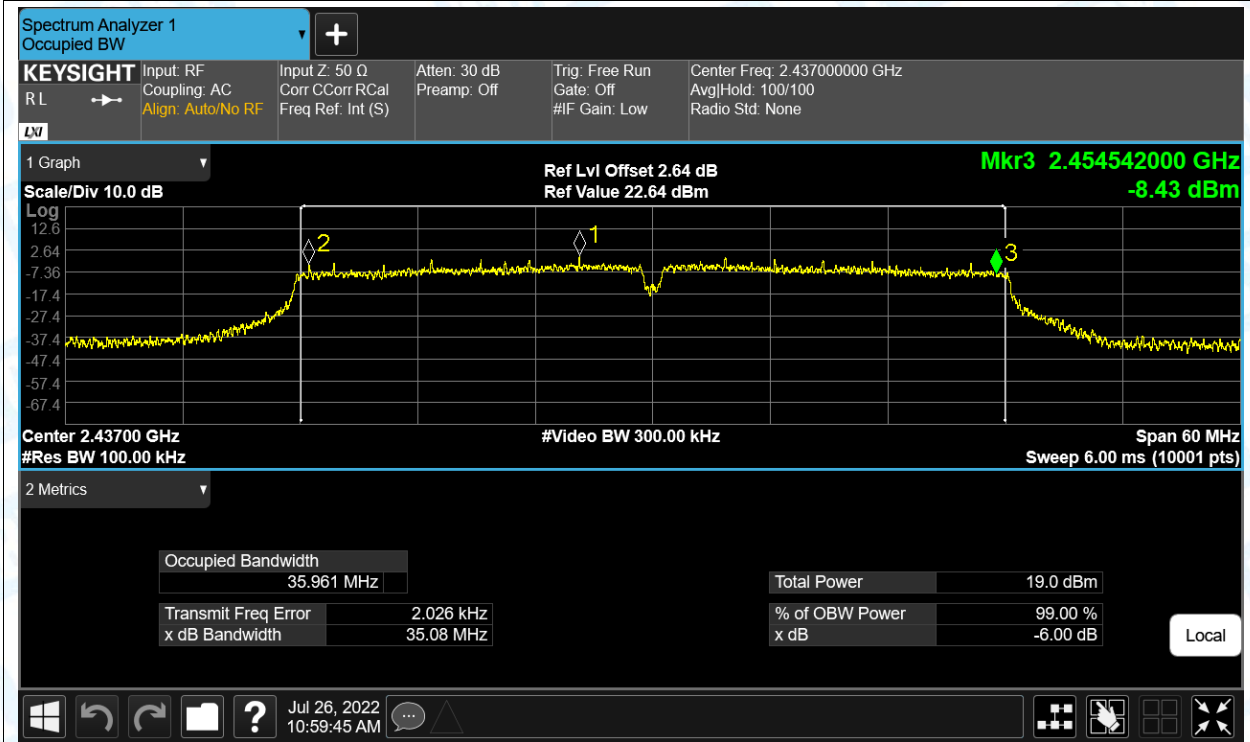
-6dB Bandwidth NVNT n(HT20) 2462MHz Ant1



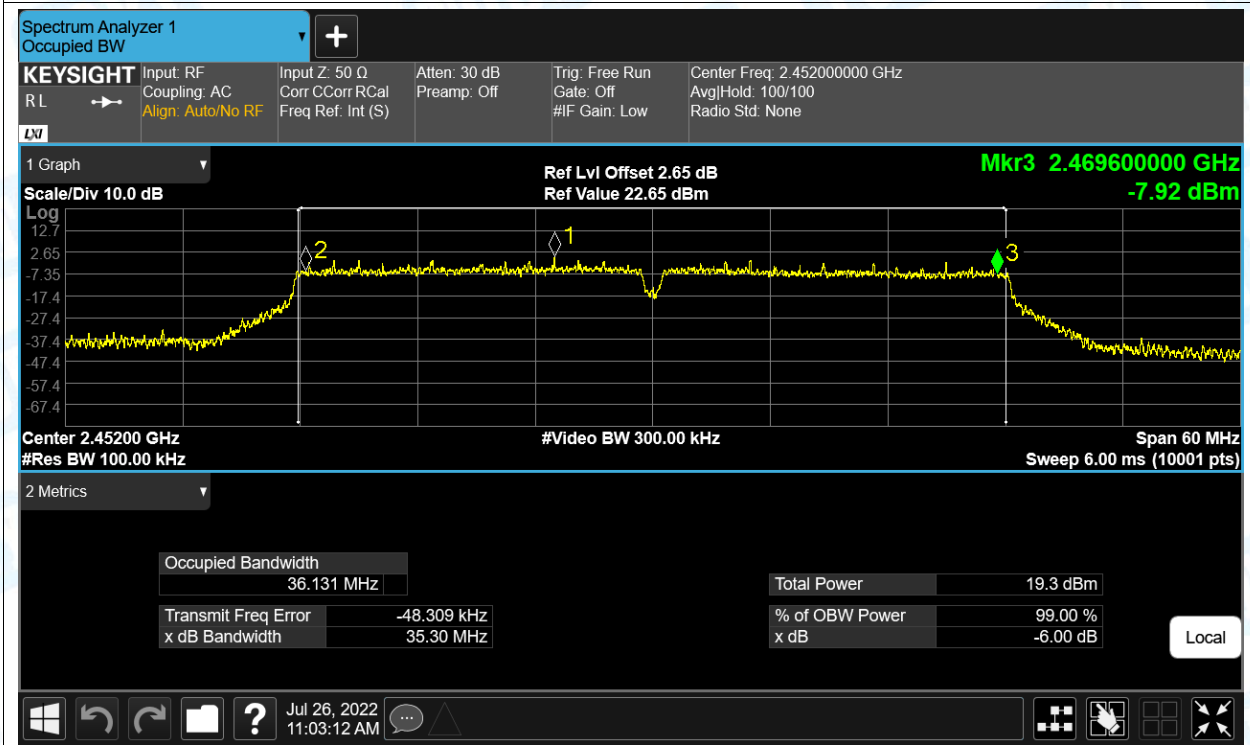
-6dB Bandwidth NVNT n(HT40) 2422MHz Ant1



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



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

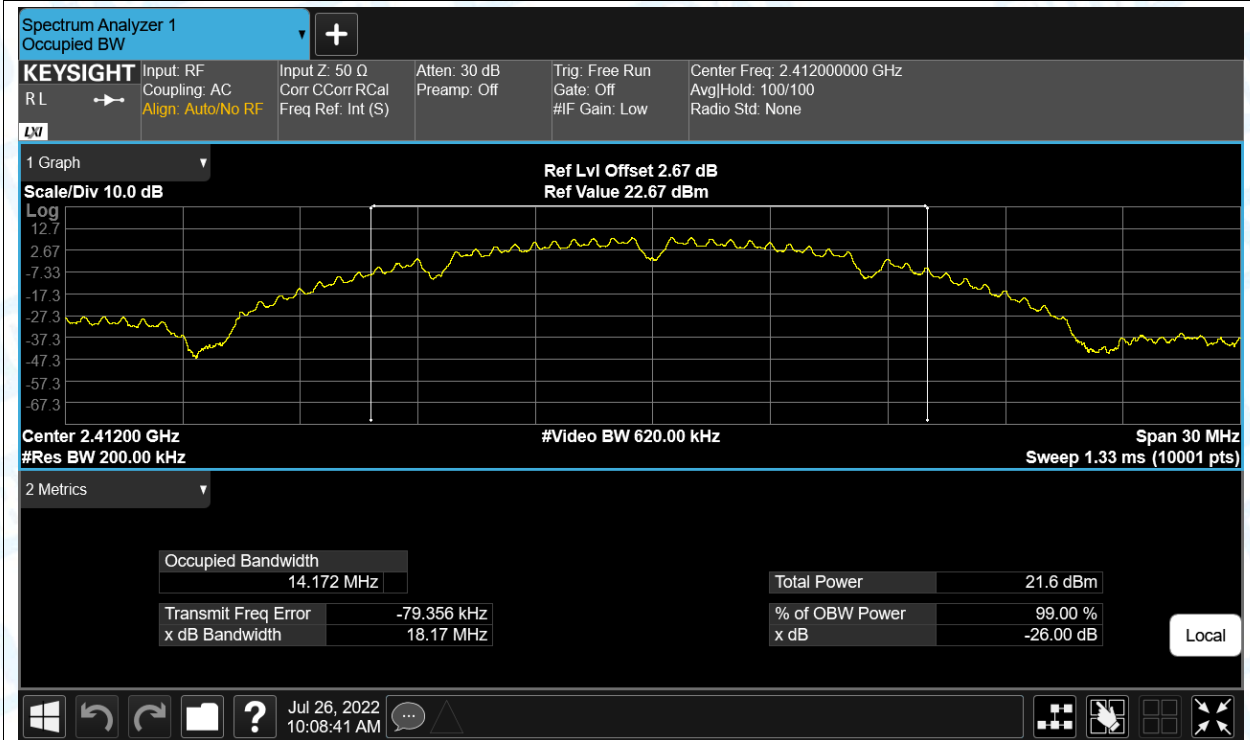


4. Occupied Channel Bandwidth

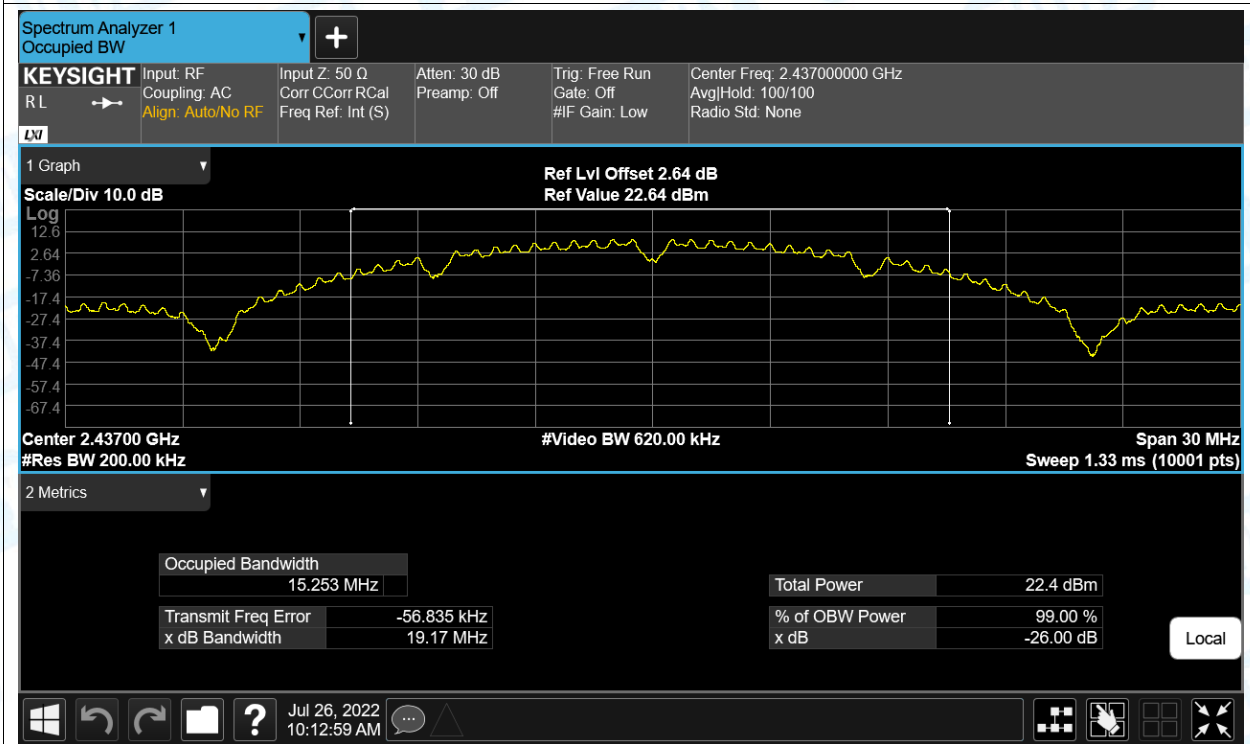
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	b	2412	Ant1	14.172
NVNT	b	2437	Ant1	15.253
NVNT	b	2462	Ant1	14.391
NVNT	g	2412	Ant1	16.563
NVNT	g	2437	Ant1	16.472
NVNT	g	2462	Ant1	16.557
NVNT	n(HT20)	2412	Ant1	17.775
NVNT	n(HT20)	2437	Ant1	17.687
NVNT	n(HT20)	2462	Ant1	17.746
NVNT	n(HT40)	2422	Ant1	36.218
NVNT	n(HT40)	2437	Ant1	36.035
NVNT	n(HT40)	2452	Ant1	36.164

Test Graphs

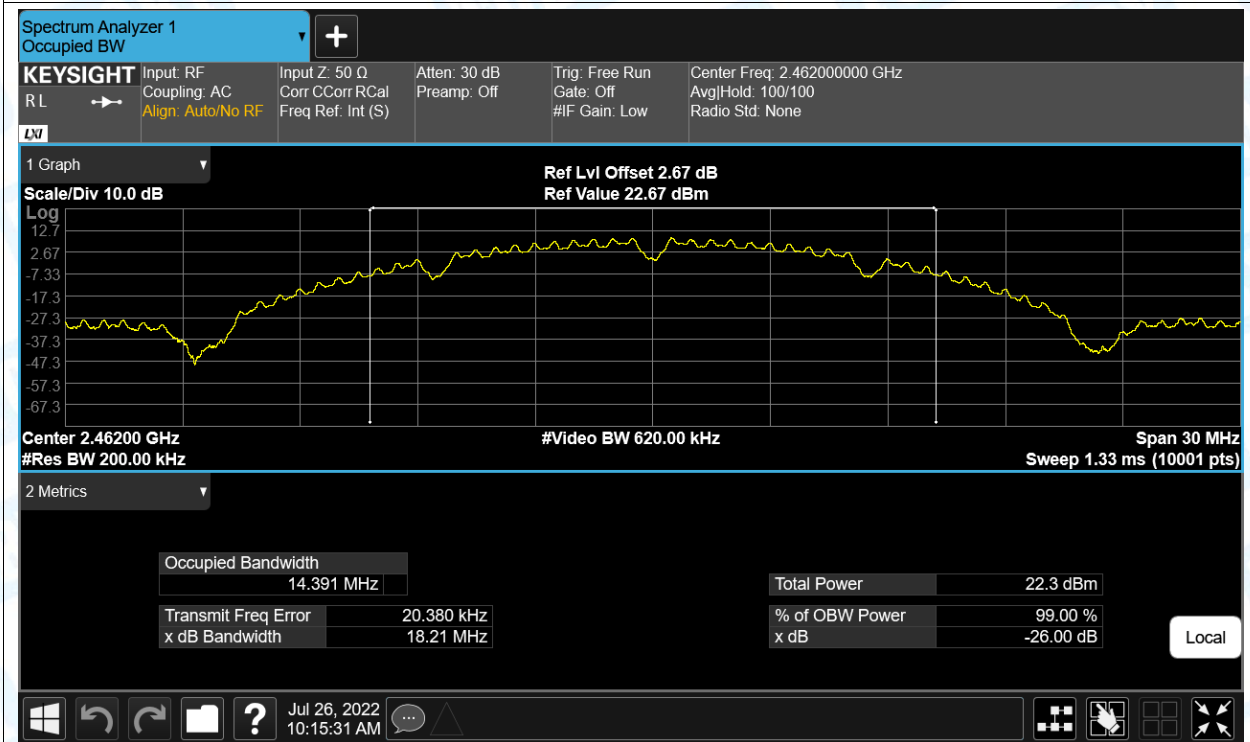
OBW NVNT b 2412MHz Ant1



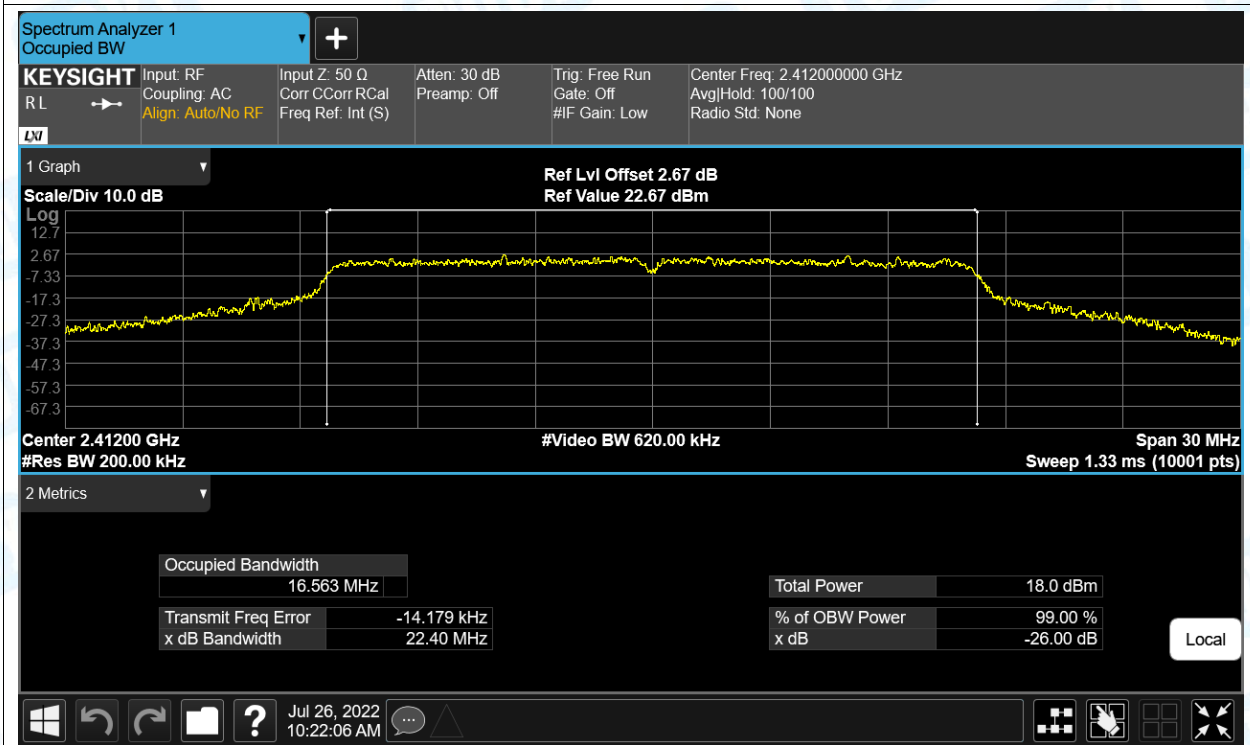
OBW NVNT b 2437MHz Ant1



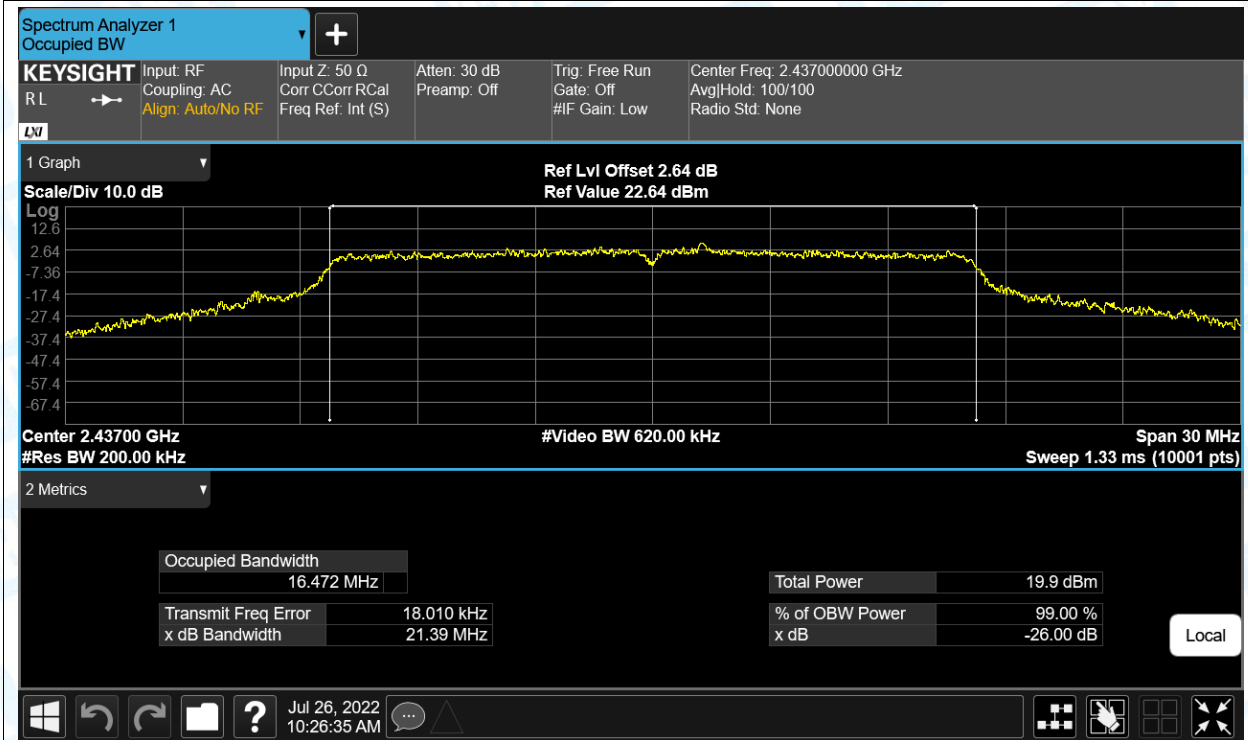
OBW NVNT b 2462MHz Ant1



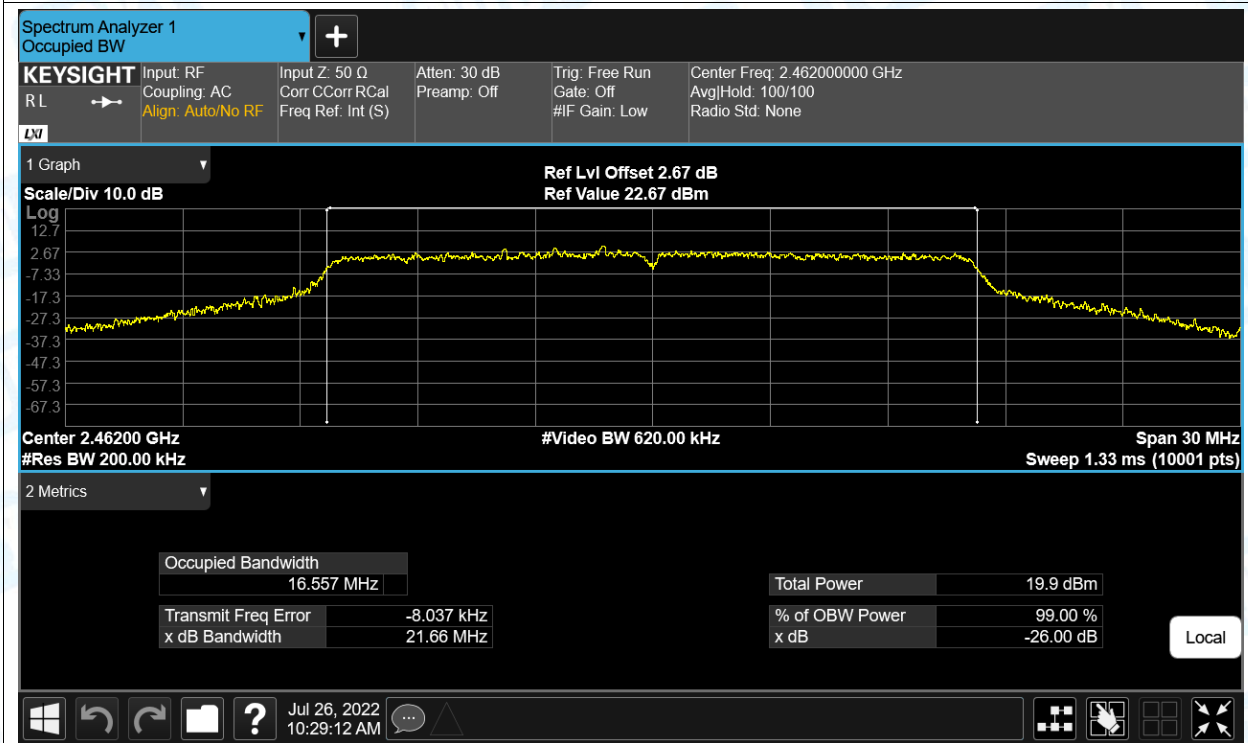
OBW NVNT g 2412MHz Ant1



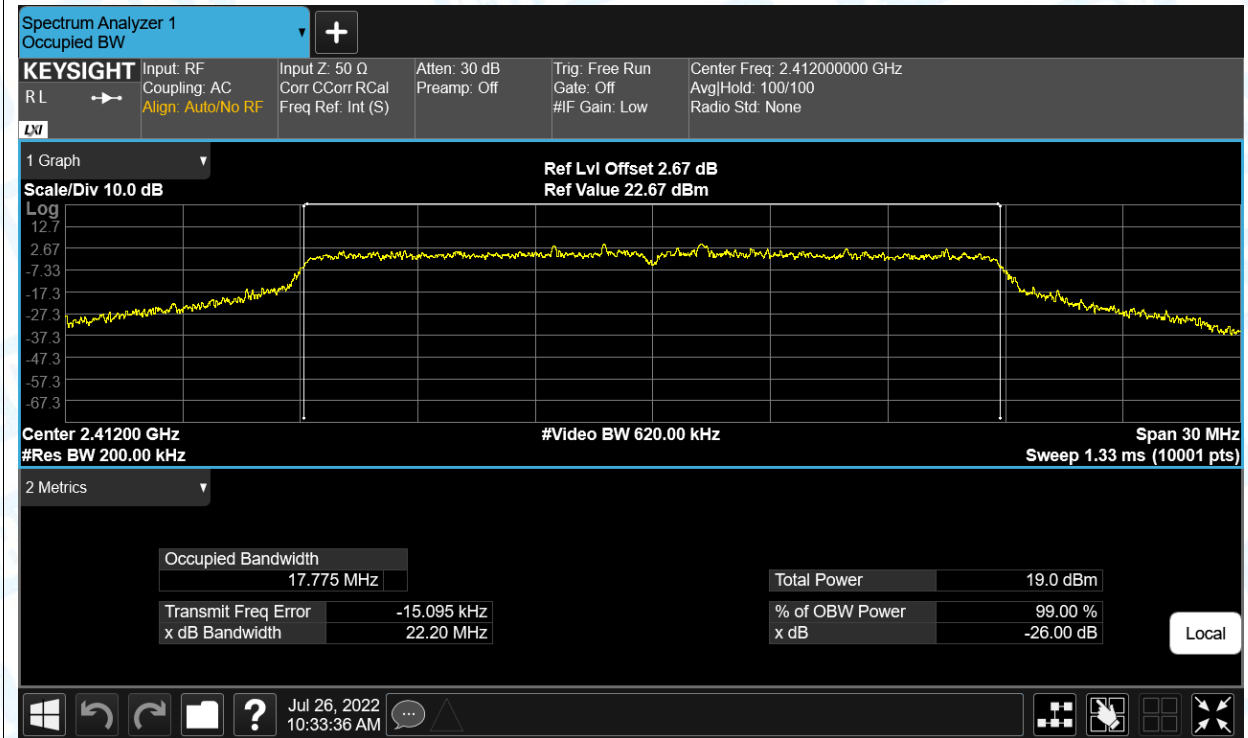
OBW NVNT g 2437MHz Ant1



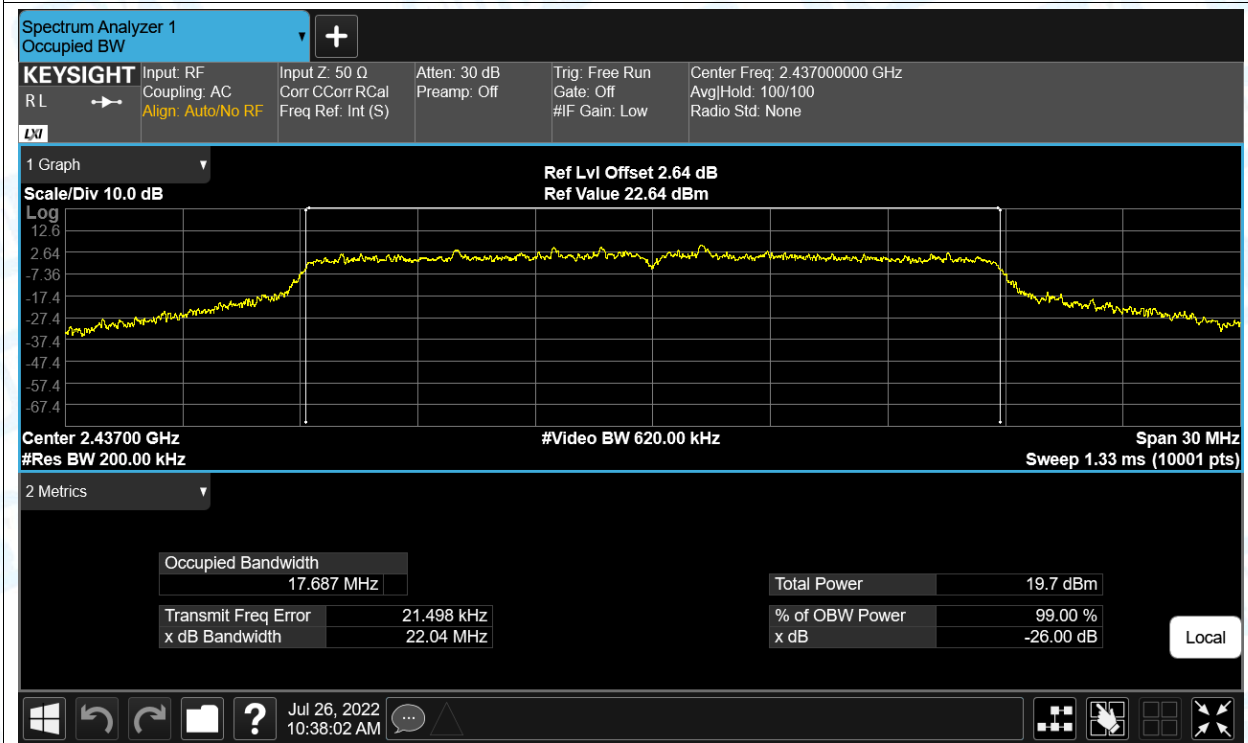
OBW NVNT g 2462MHz Ant1



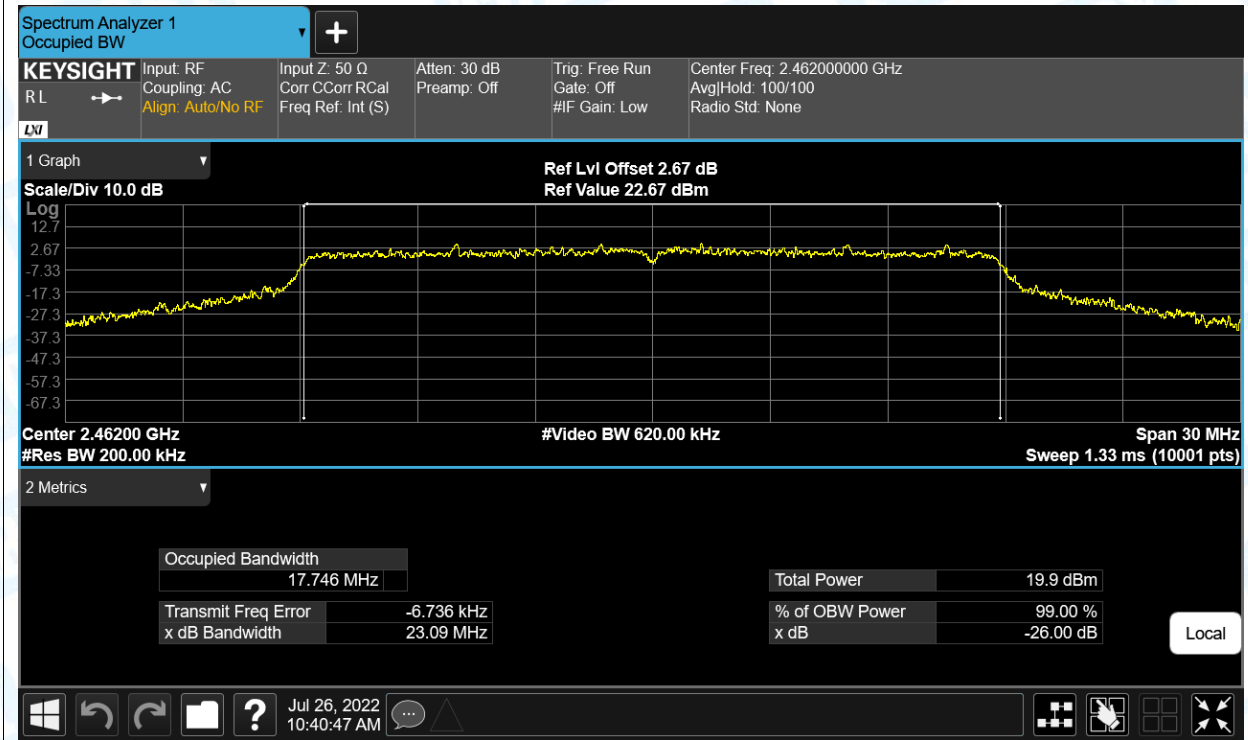
OBW NVNT n(HT20) 2412MHz Ant1



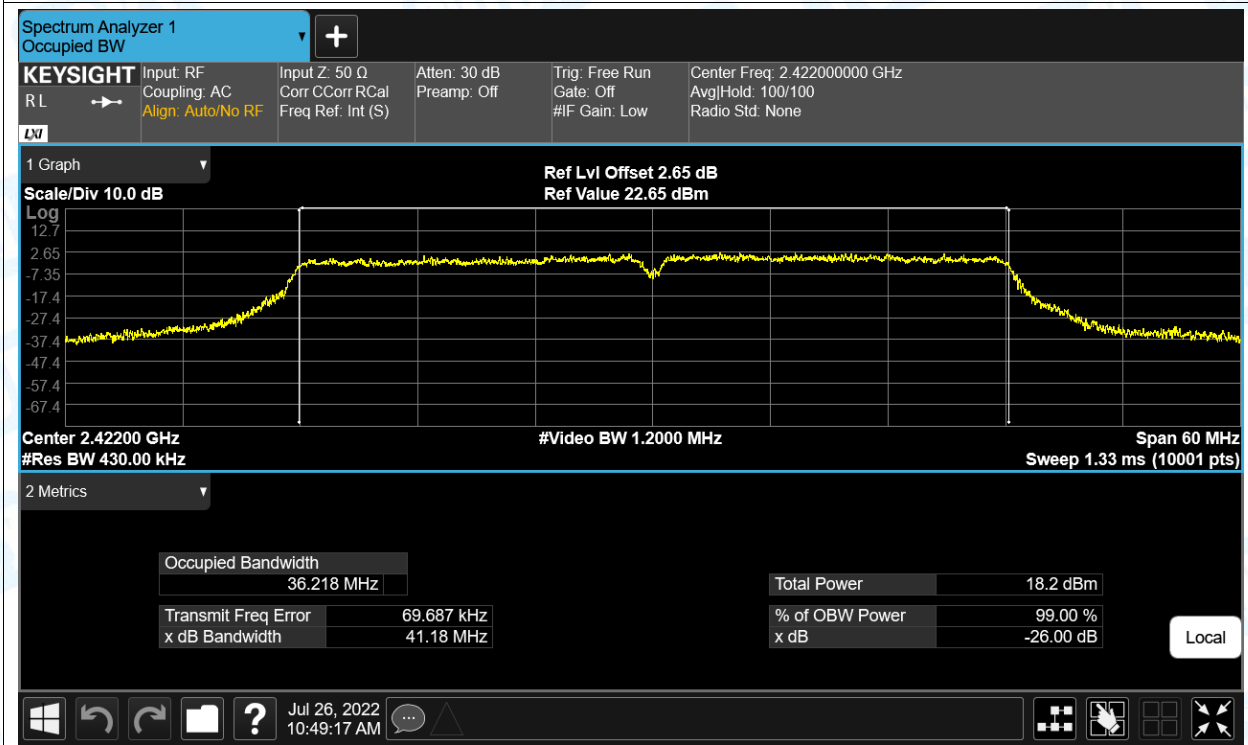
OBW NVNT n(HT20) 2437MHz Ant1



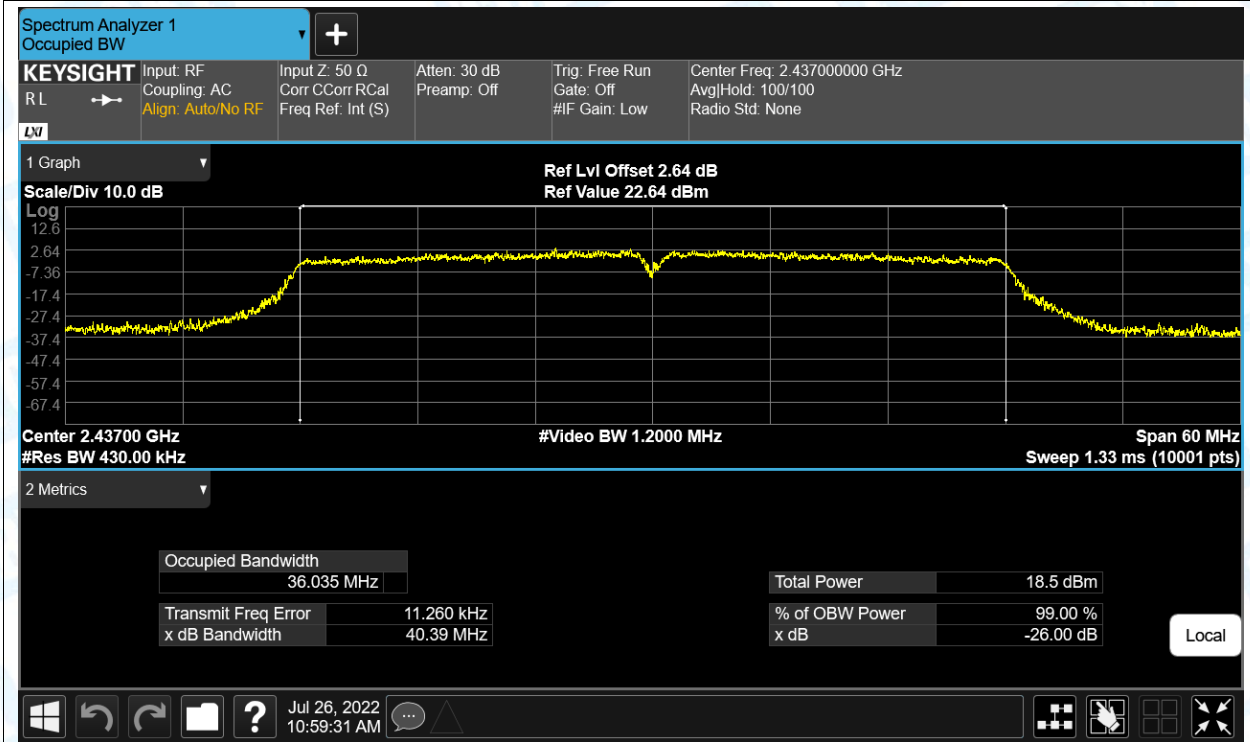
OBW NVNT n(HT20) 2462MHz Ant1



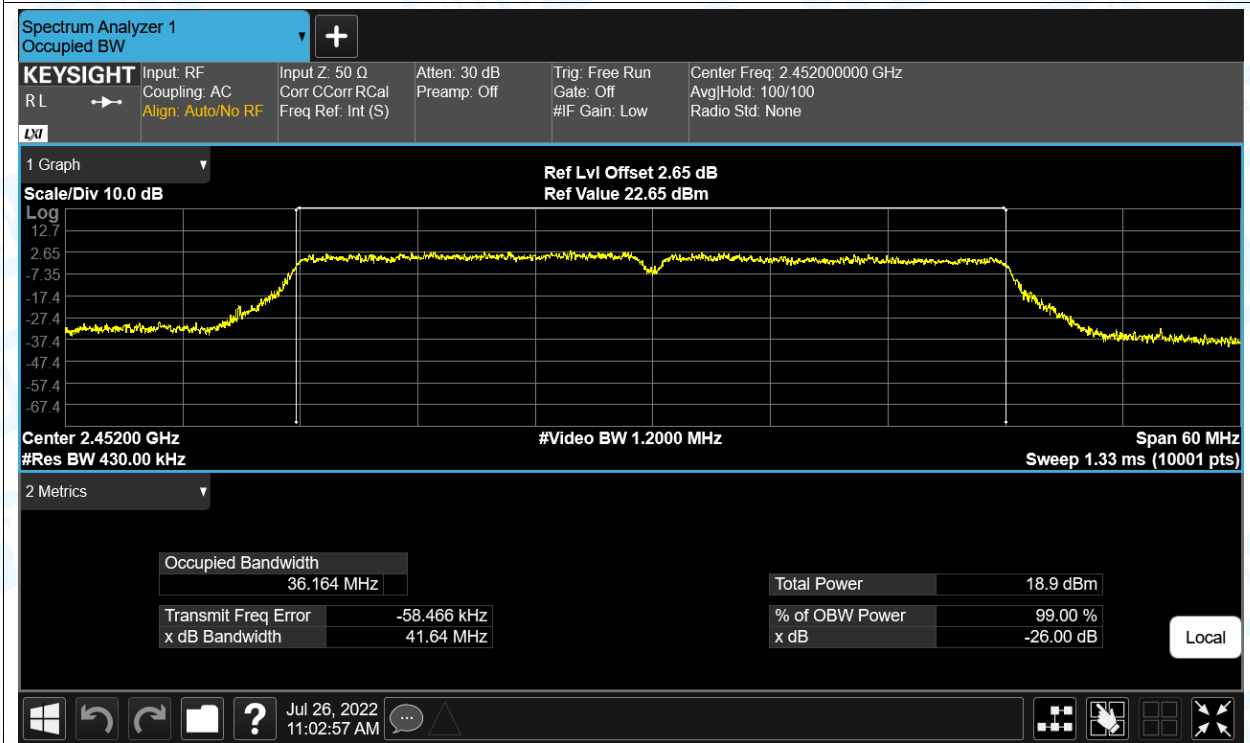
OBW NVNT n(HT40) 2422MHz Ant1



OBW NVNT n(HT40) 2437MHz Ant1



OBW NVNT n(HT40) 2452MHz Ant1

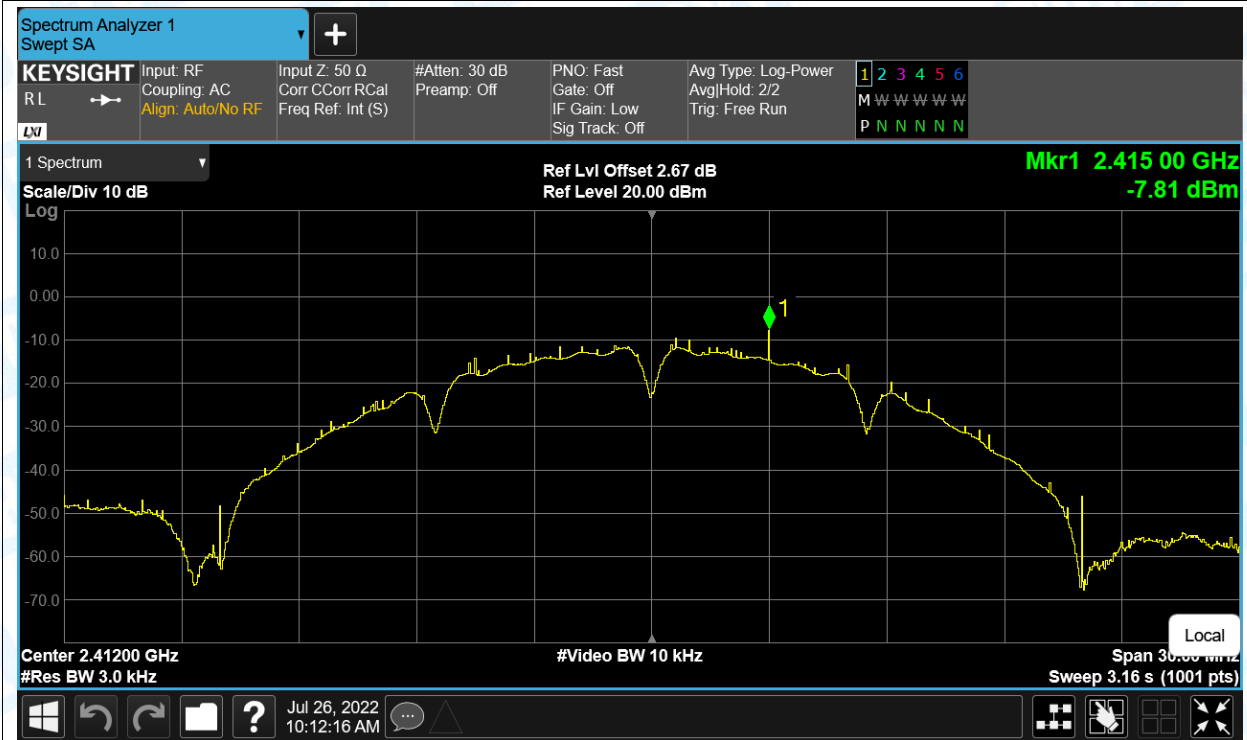


5. Maximum Power Spectral Density Level

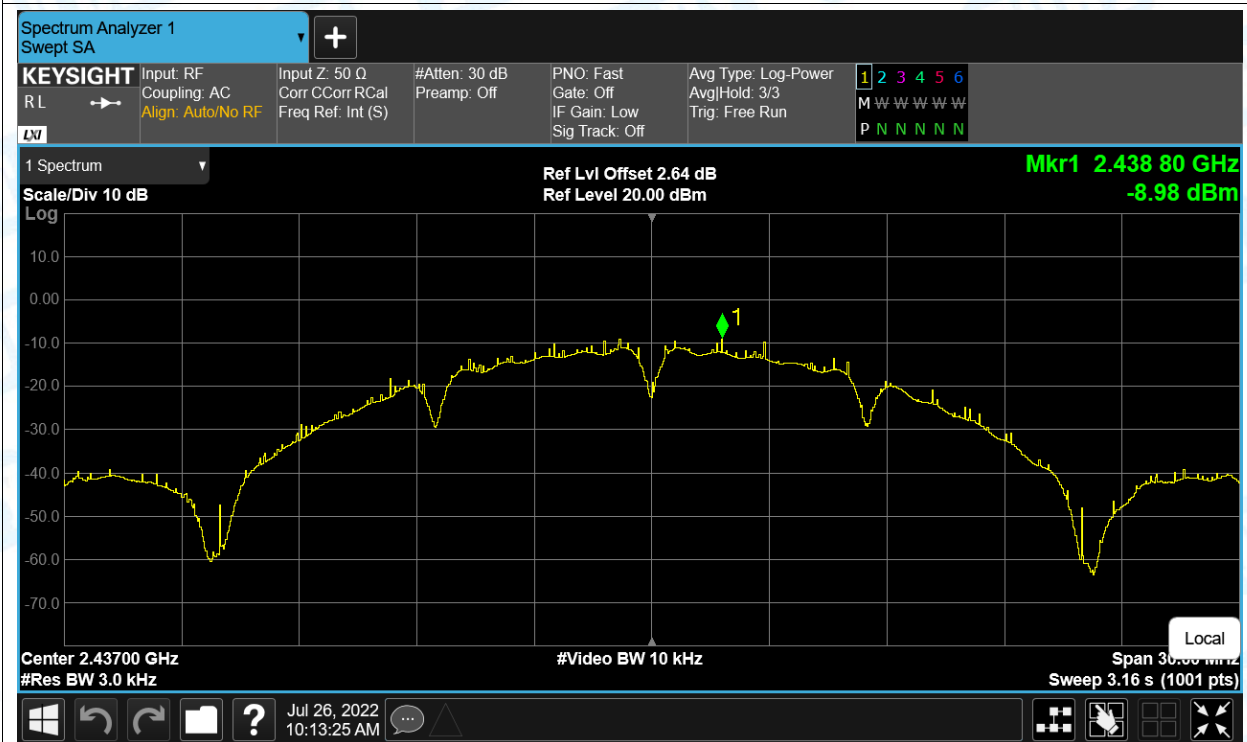
Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	-7.813	8	Pass
NVNT	b	2437	Ant1	-8.984	8	Pass
NVNT	b	2462	Ant1	-7.928	8	Pass
NVNT	g	2412	Ant1	-13.776	8	Pass
NVNT	g	2437	Ant1	-11.914	8	Pass
NVNT	g	2462	Ant1	-11.935	8	Pass
NVNT	n(HT20)	2412	Ant1	-12.161	8	Pass
NVNT	n(HT20)	2437	Ant1	-11.258	8	Pass
NVNT	n(HT20)	2462	Ant1	-11.388	8	Pass
NVNT	n(HT40)	2422	Ant1	-16.664	8	Pass
NVNT	n(HT40)	2437	Ant1	-15.095	8	Pass
NVNT	n(HT40)	2452	Ant1	-15	8	Pass

Test Graphs

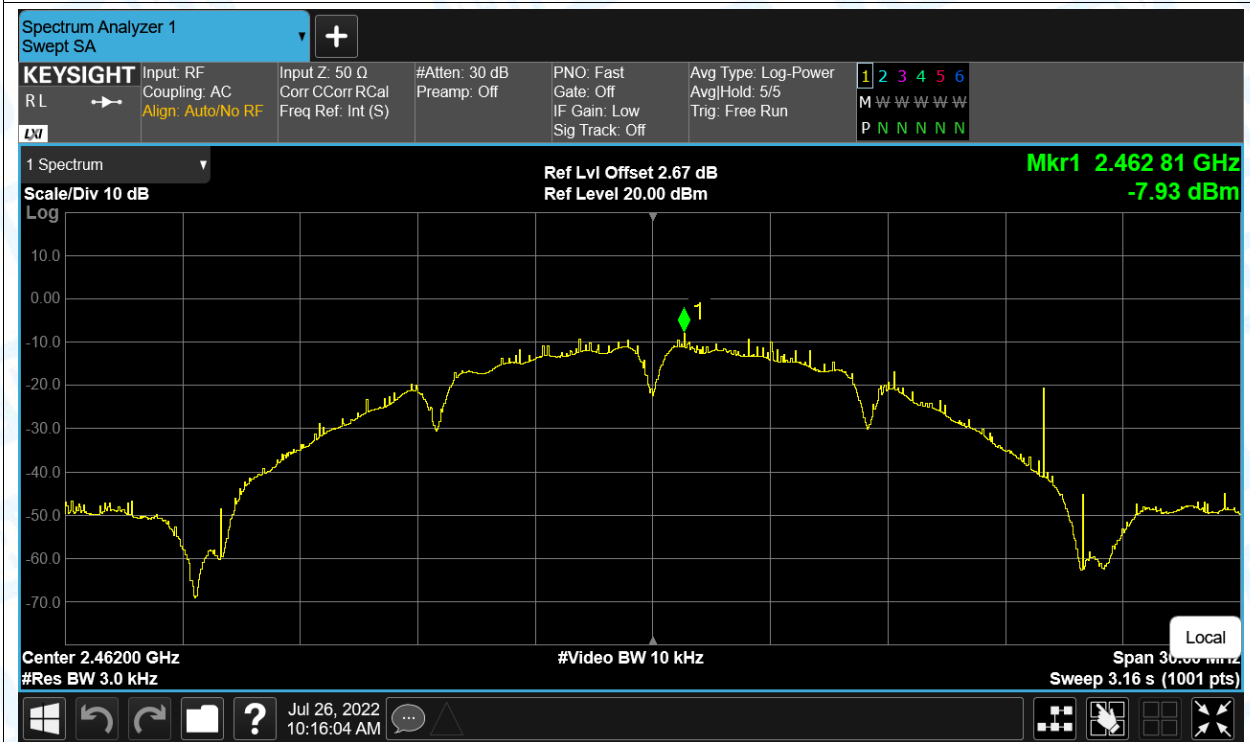
PSD NVNT b 2412MHz Ant1



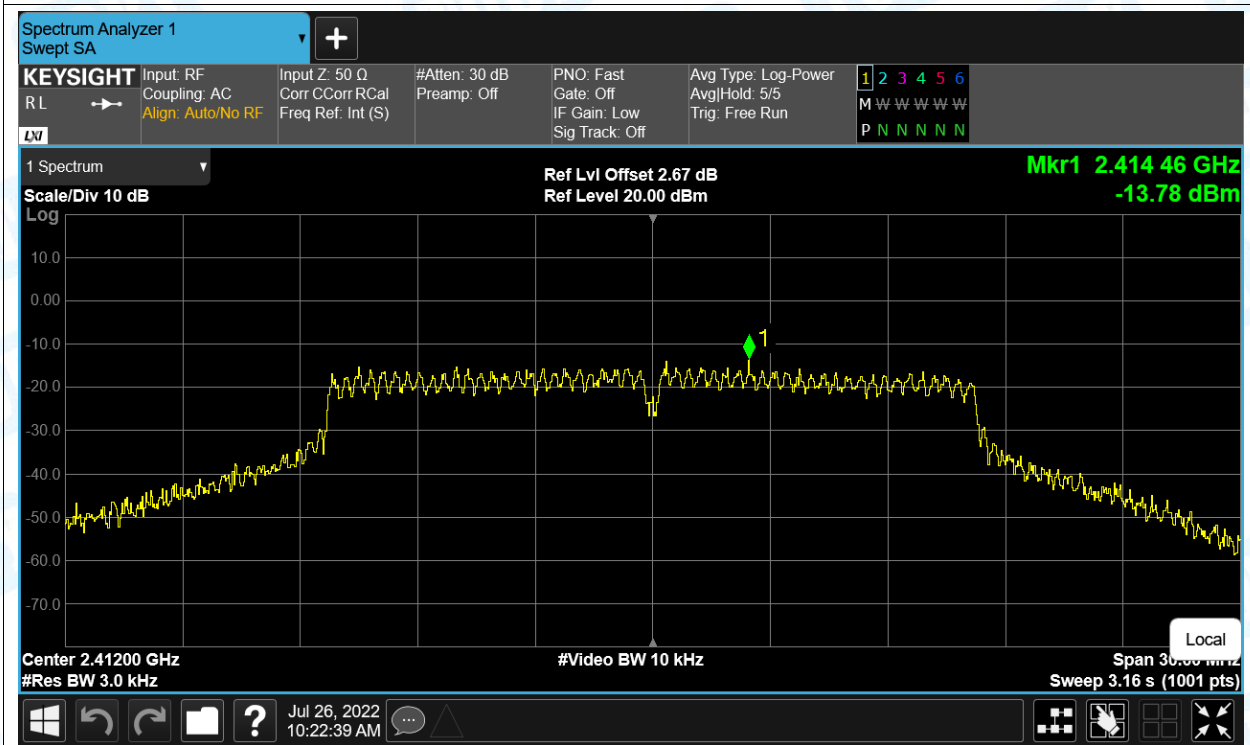
PSD NVNT b 2437MHz Ant1



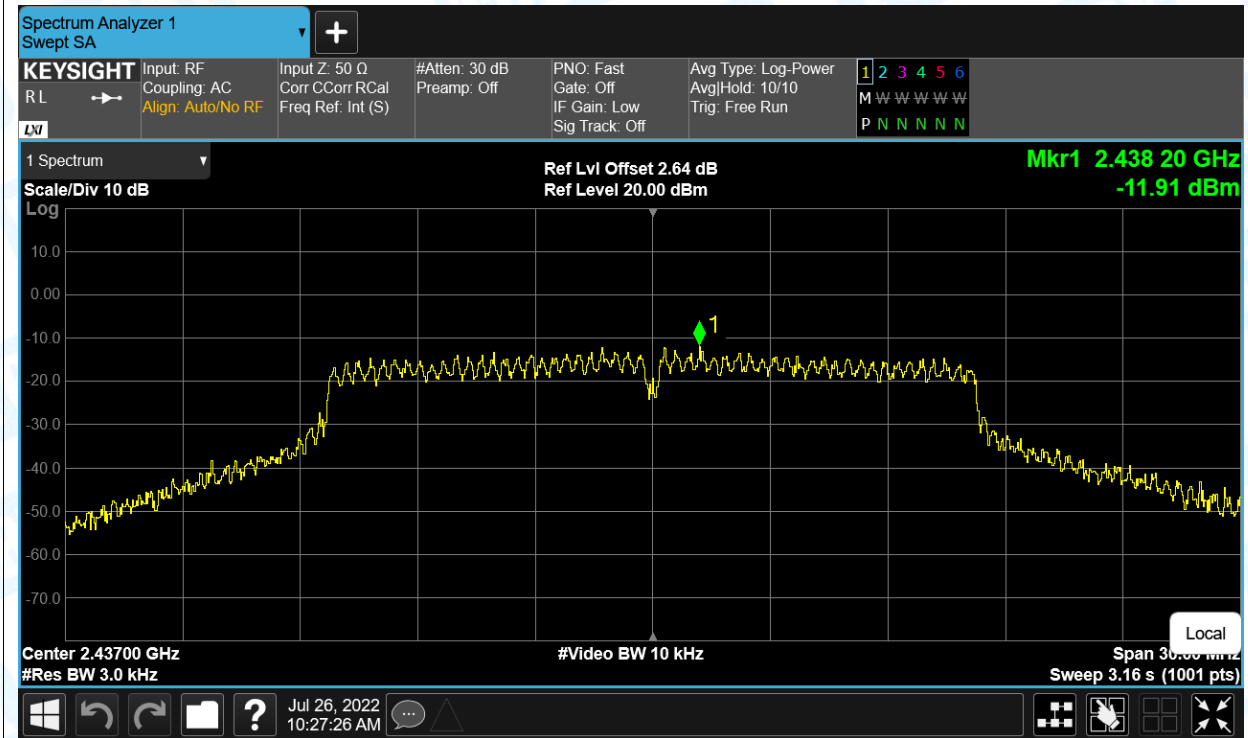
PSD NVNT b 2462MHz Ant1



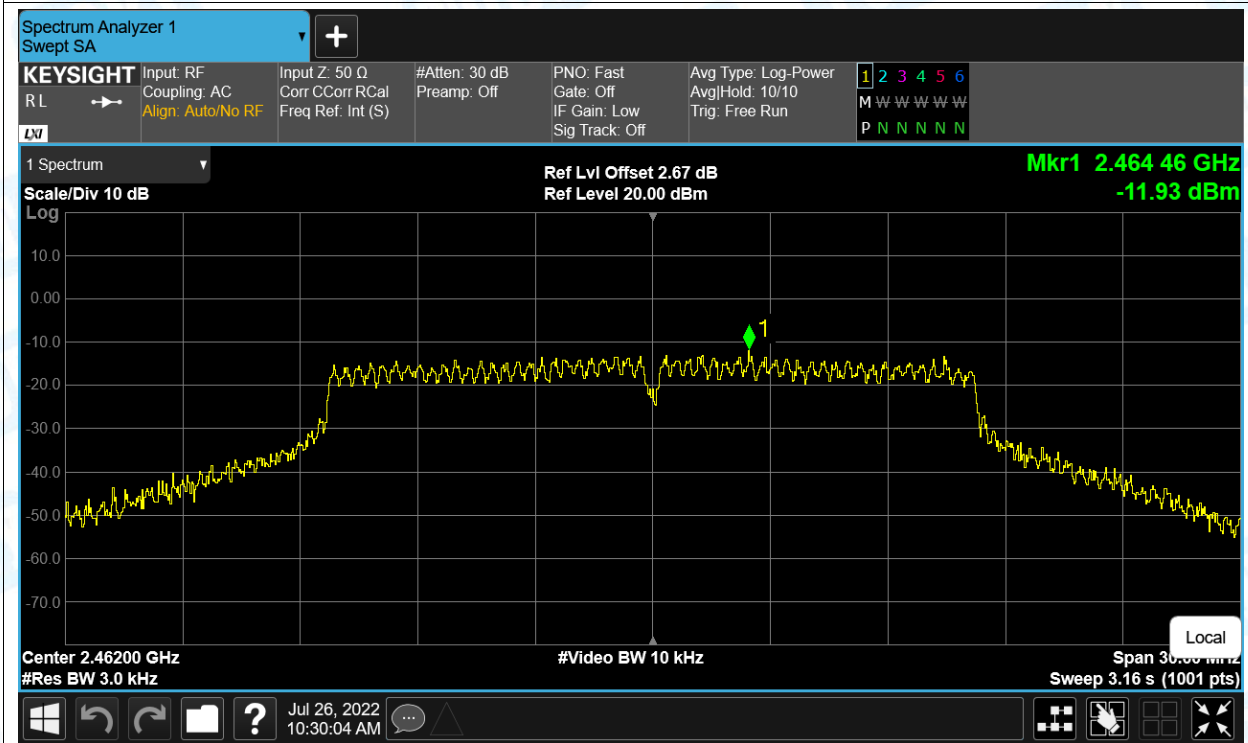
PSD NVNT g 2412MHz Ant1



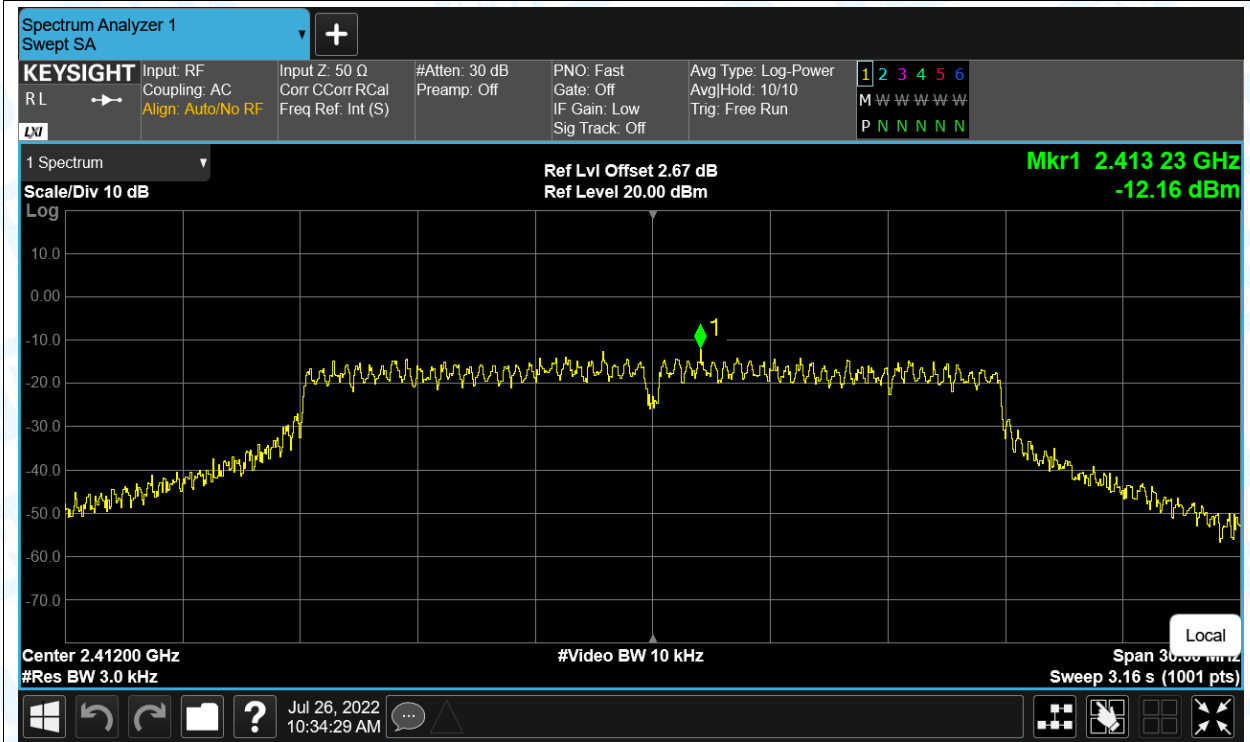
PSD NVNT g 2437MHz Ant1



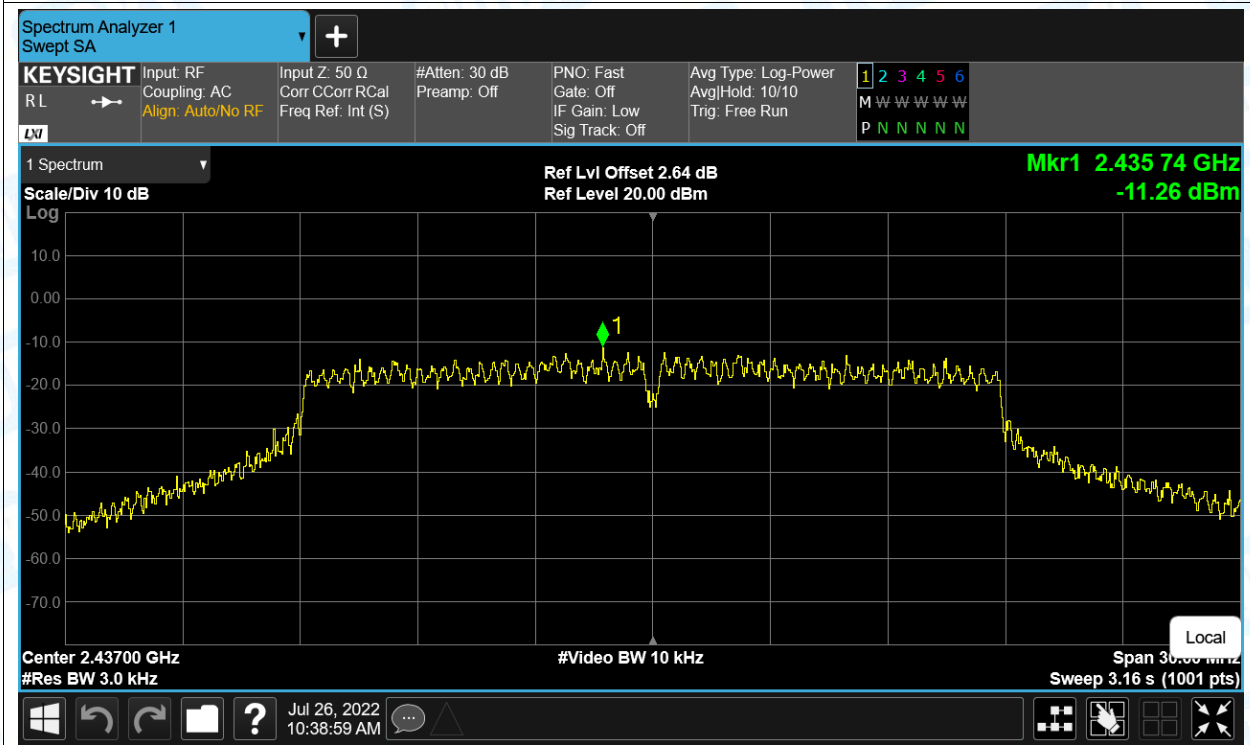
PSD NVNT g 2462MHz Ant1

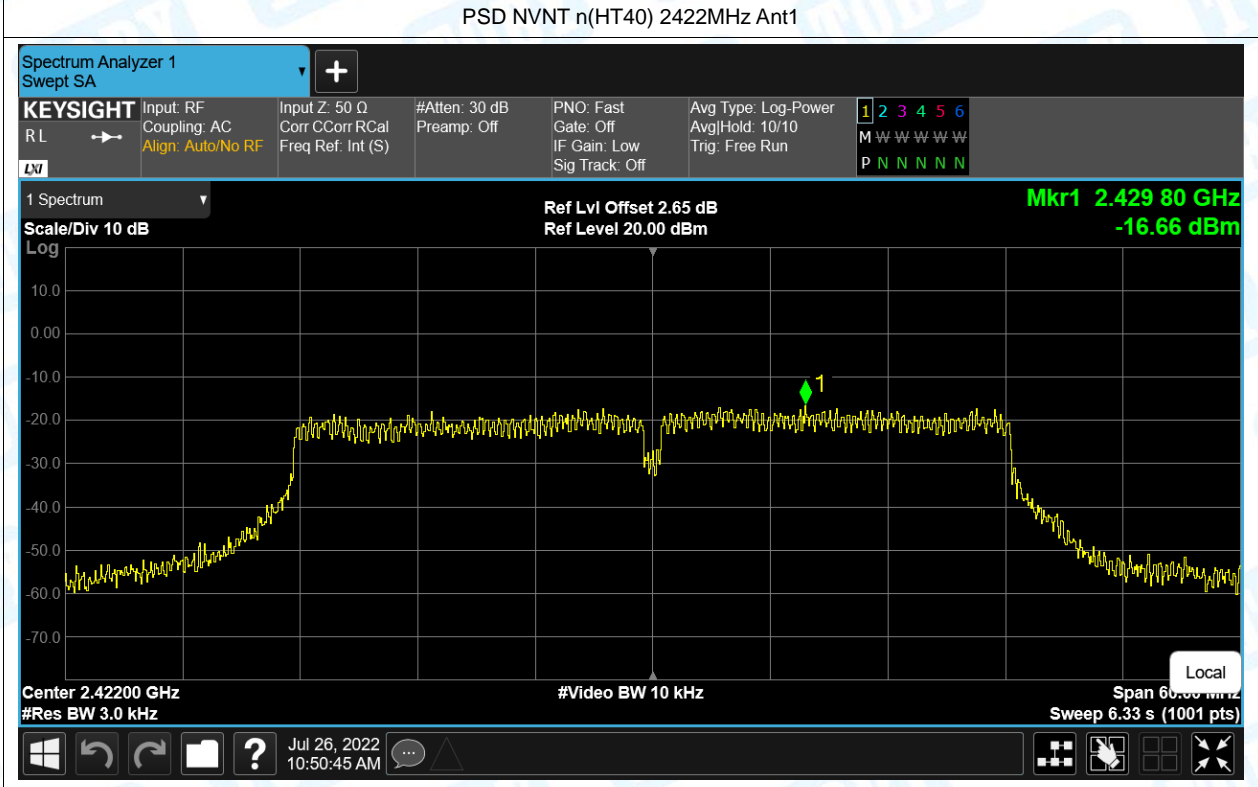
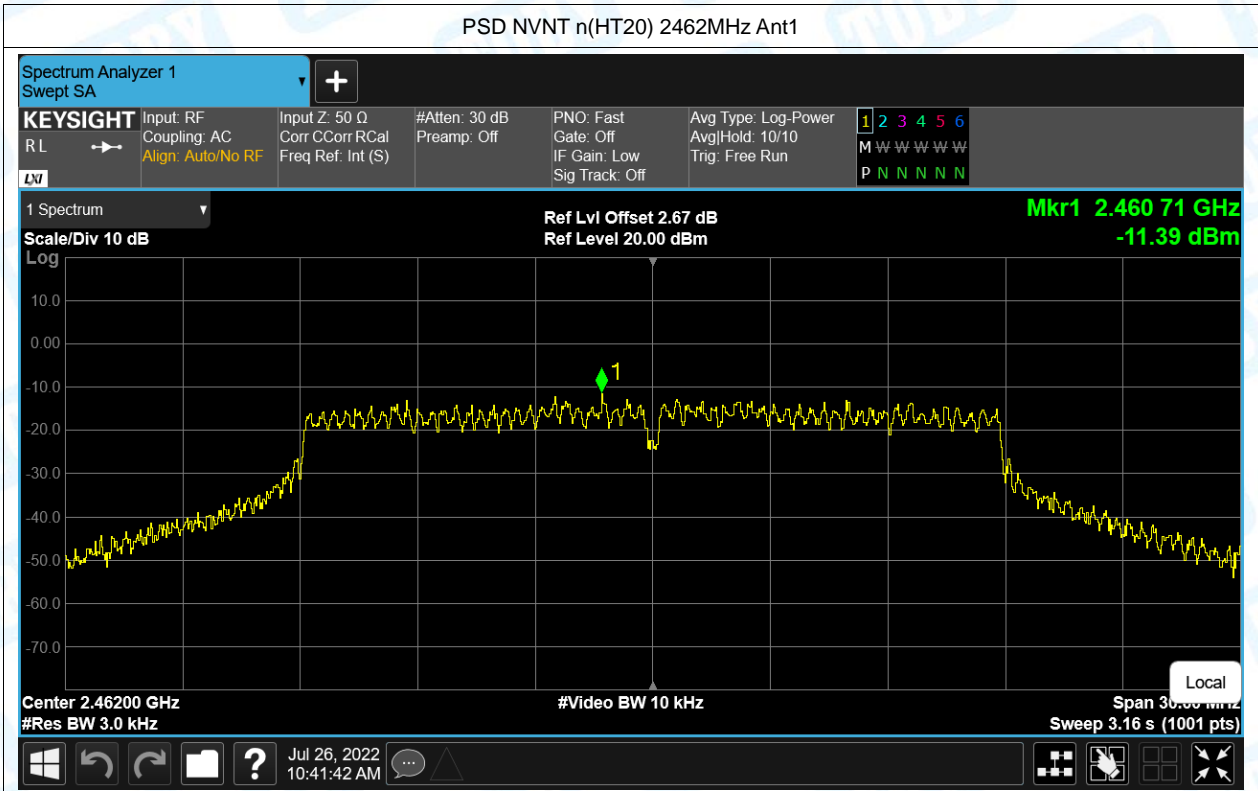


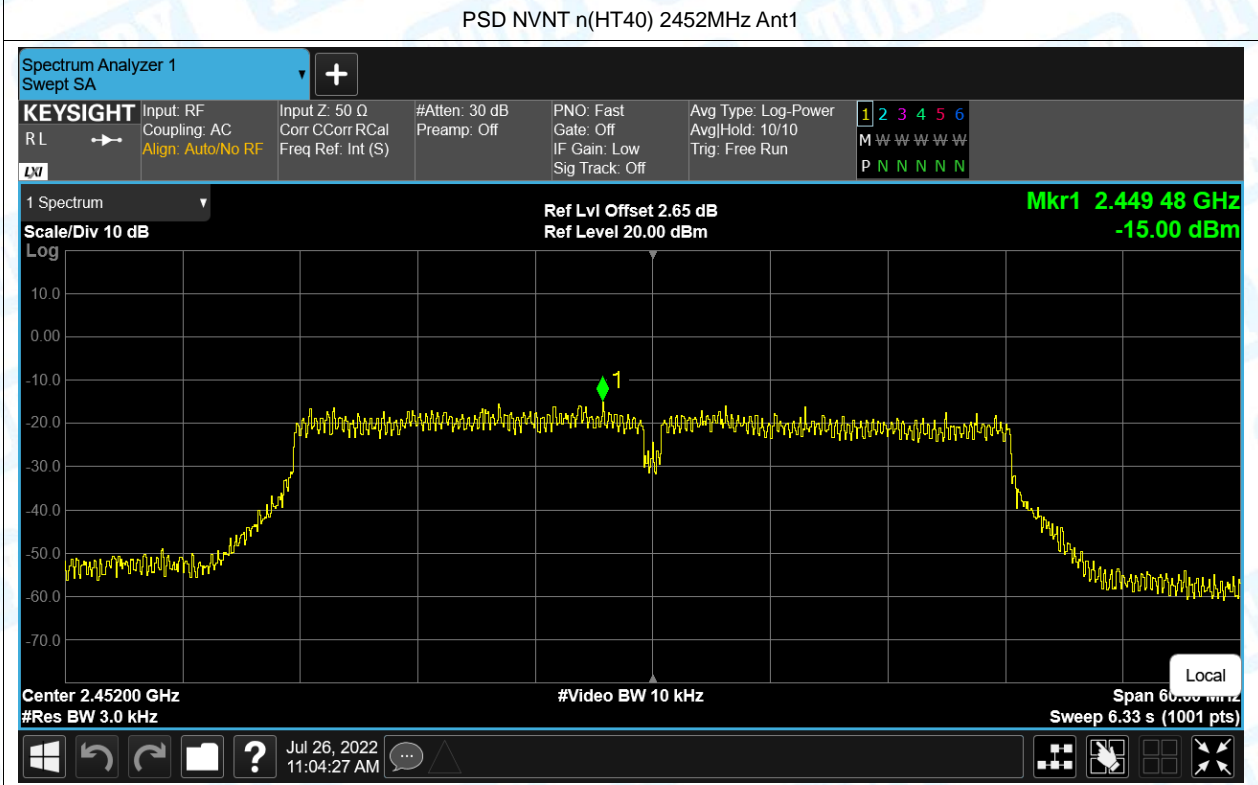
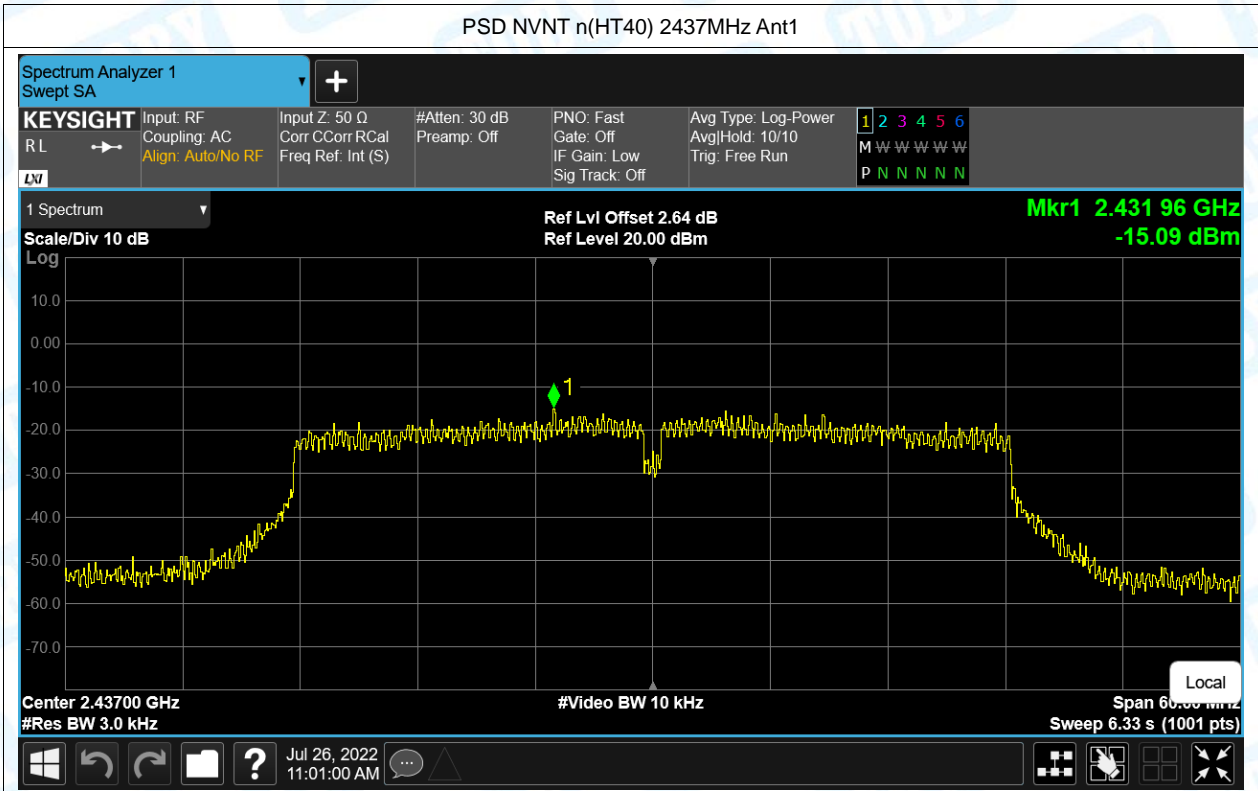
PSD NVNT n(HT20) 2412MHz Ant1



PSD NVNT n(HT20) 2437MHz Ant1





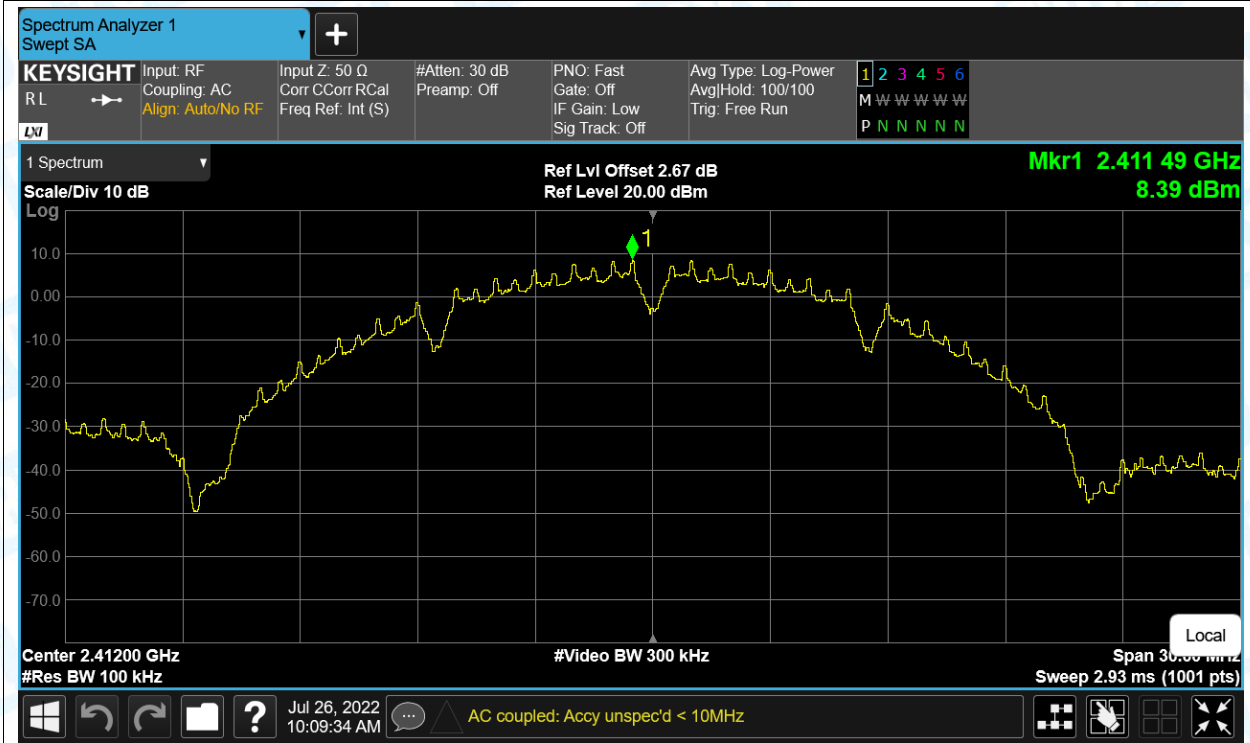


6. Band Edge

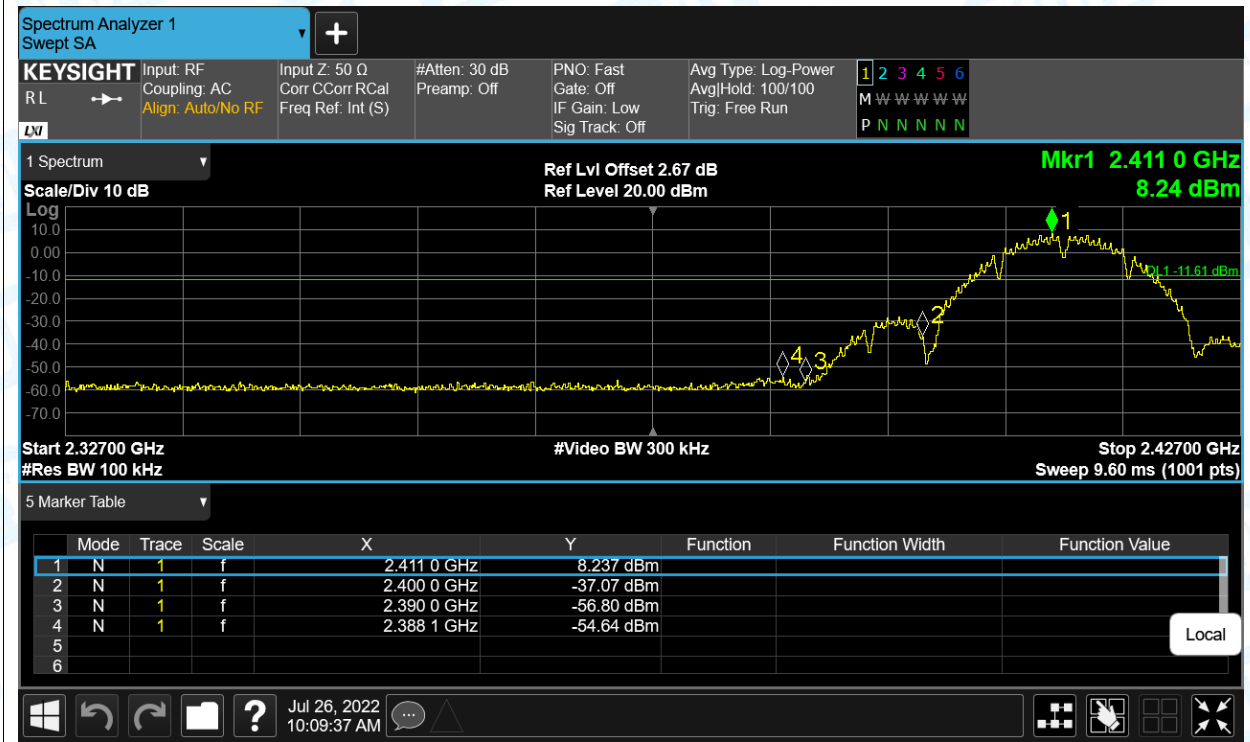
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-63.03	-20	Pass
NVNT	b	2462	Ant1	-60.34	-20	Pass
NVNT	g	2412	Ant1	-51.29	-20	Pass
NVNT	g	2462	Ant1	-50	-20	Pass
NVNT	n(HT20)	2412	Ant1	-47.54	-20	Pass
NVNT	n(HT20)	2462	Ant1	-47.89	-20	Pass
NVNT	n(HT40)	2422	Ant1	-40.72	-20	Pass
NVNT	n(HT40)	2452	Ant1	-40.83	-20	Pass

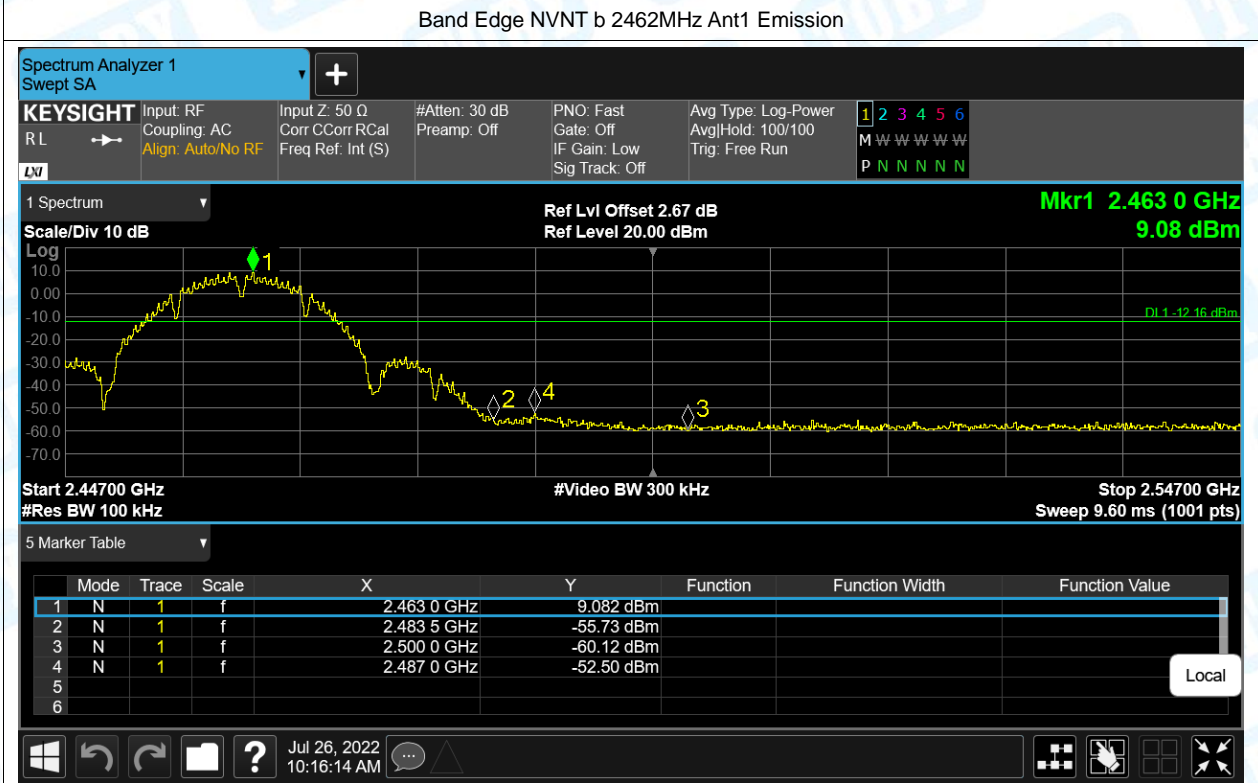
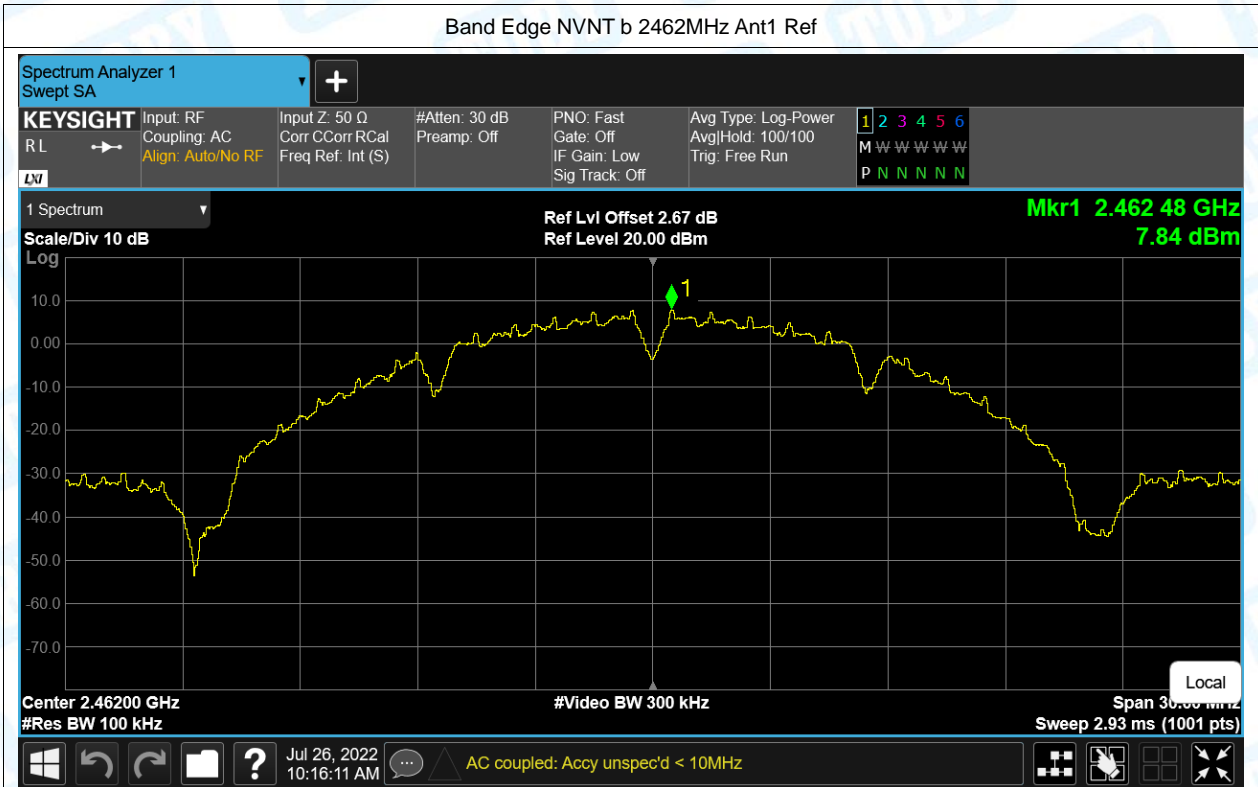
Test Graphs

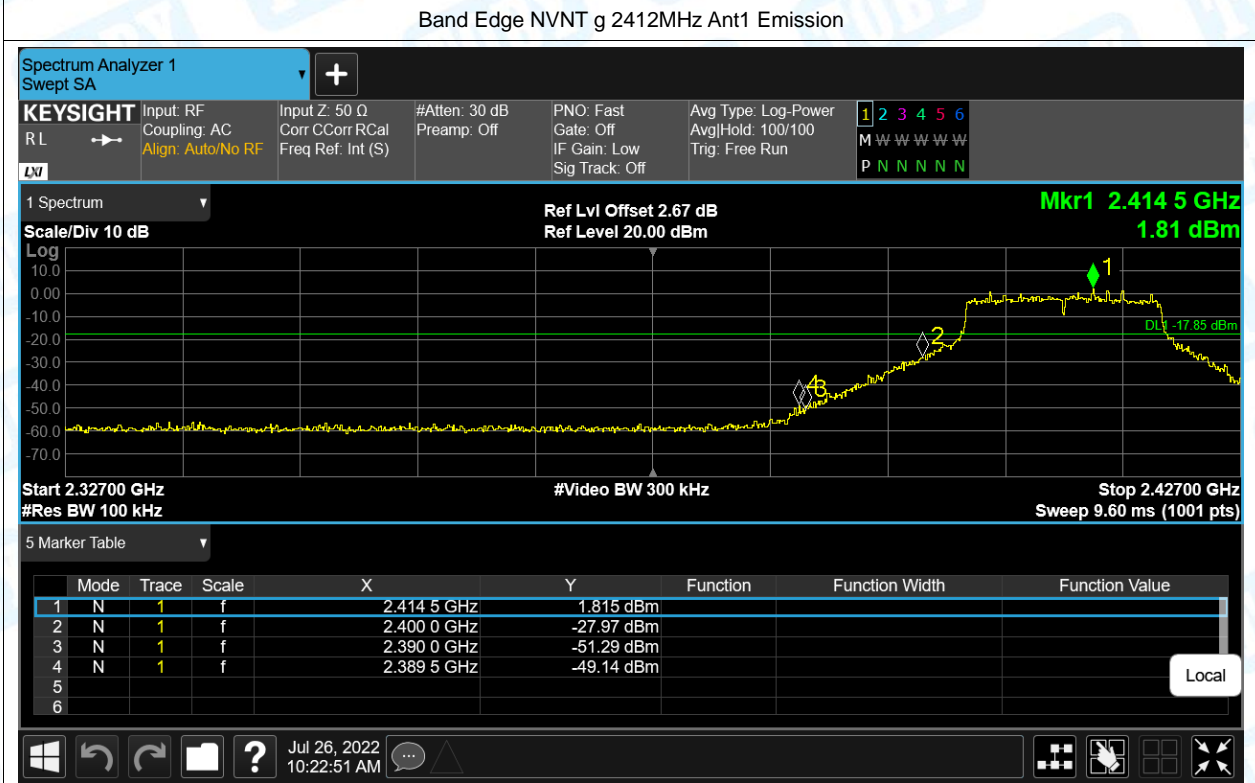
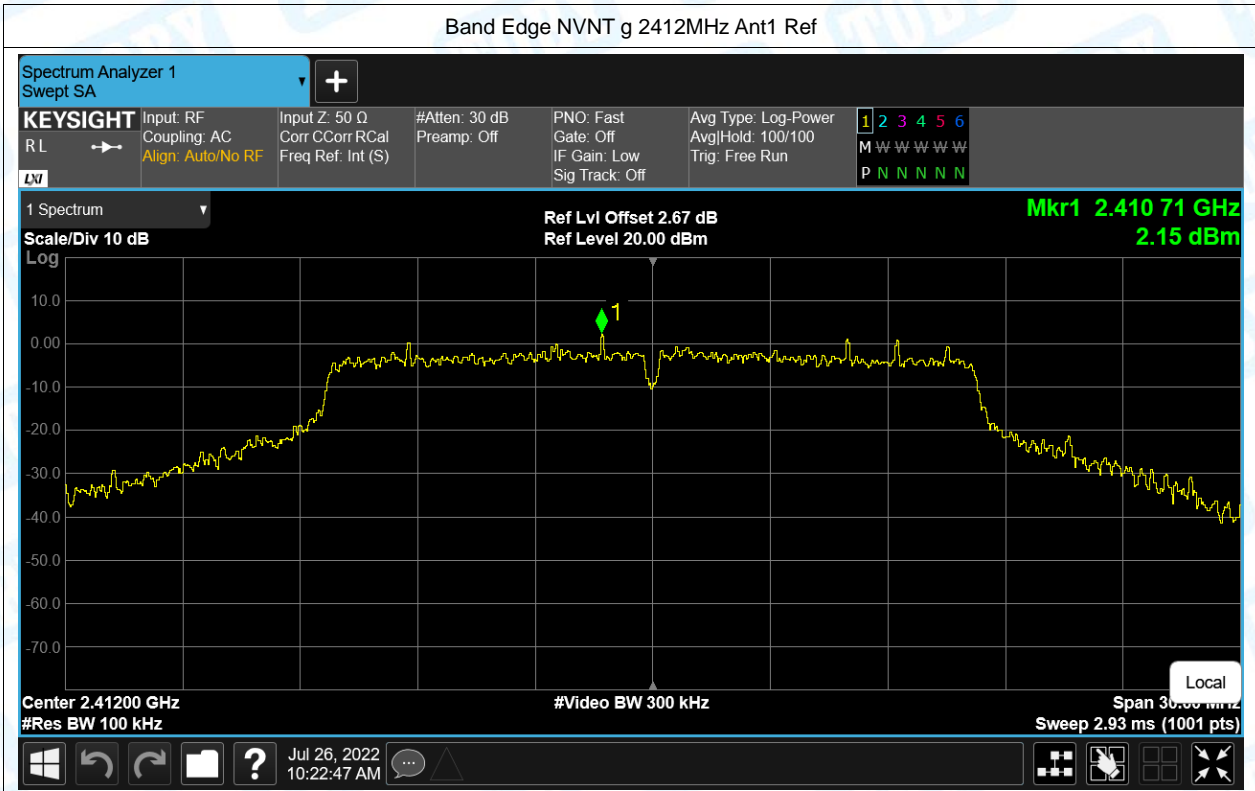
Band Edge NVNT b 2412MHz Ant1 Ref



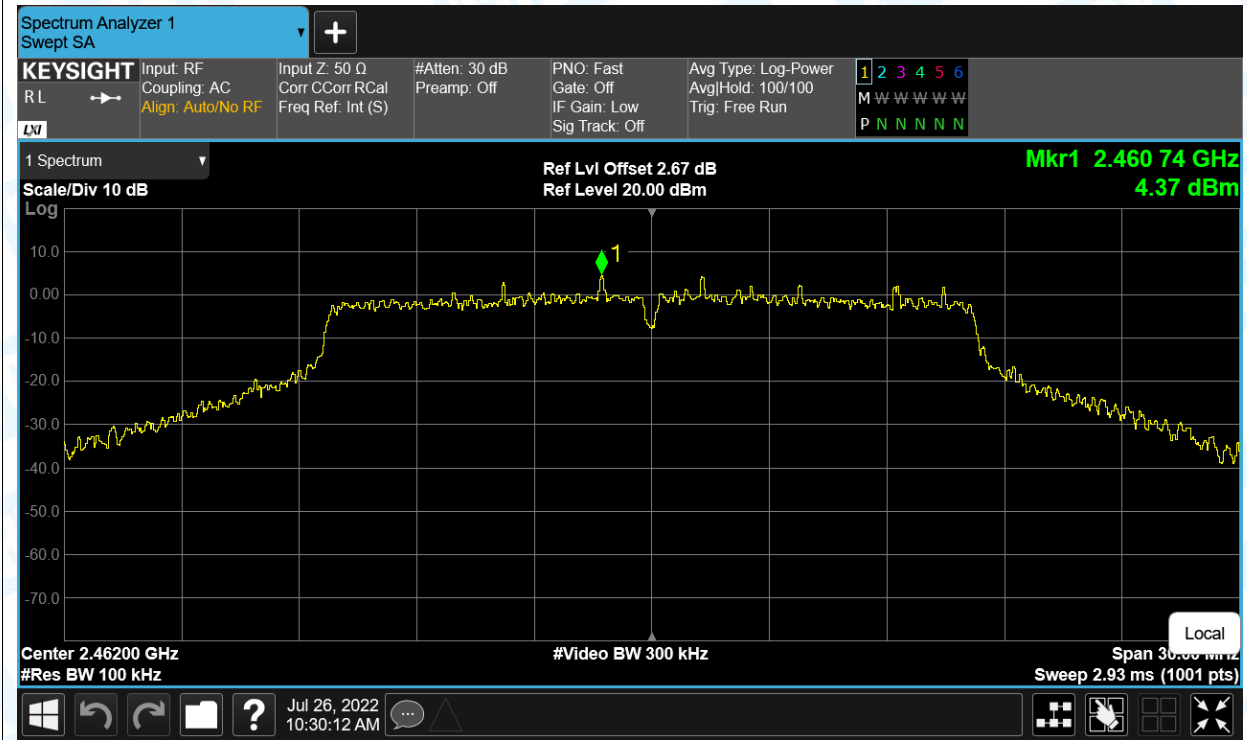
Band Edge NVNT b 2412MHz Ant1 Emission







Band Edge NVNT g 2462MHz Ant1 Ref



Band Edge NVNT g 2462MHz Ant1 Emission

