RF Test Data for 2.4G WiFi (Conducted Measurements)

General Description of EUT	
Product Name:	**PoolLab 2.0**
Test Model:	**PoolLab 2.0**
Sample ID:	**202211-0286_01-02#**
Environmental Conditions	
Temperature:	**25℃**
Relative Humidity:	**55%**
Test Voltage:	**DC 4.5V**
Test Engineer:	**Huang jian ping**
Note: For a more detailed features description, please refer to the report TBR-C-202211-0286-201 The report only show the worst case data.	

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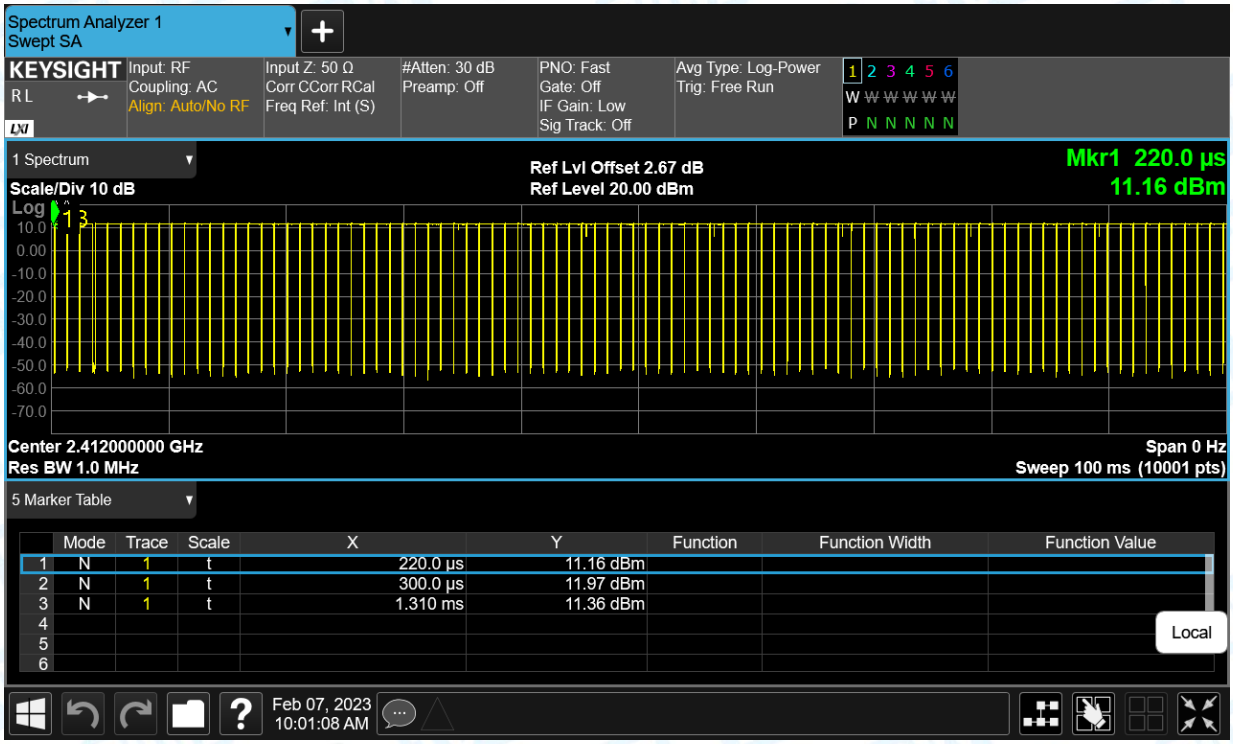
1. Duty Cycle

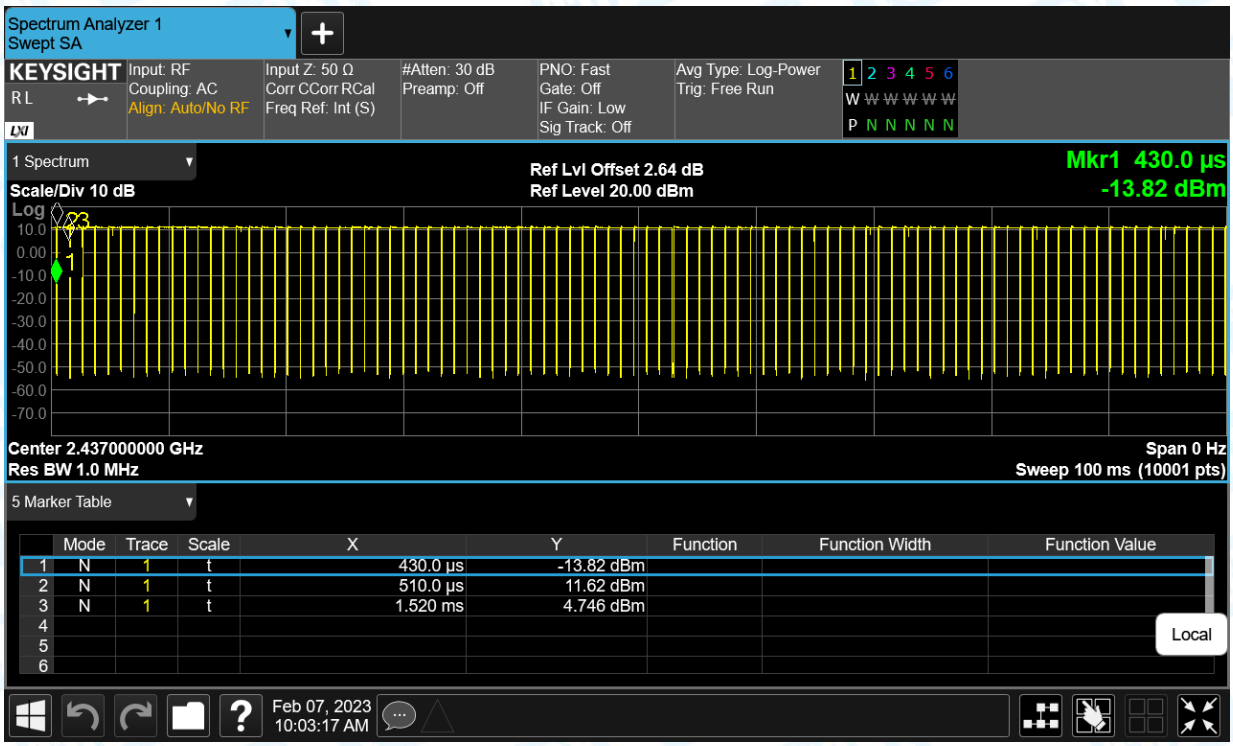
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	Ant1	92.66	0.33	0.99
NVNT	b	2437	Ant1	92.66	0.33	0.99
NVNT	b	2462	Ant1	91.82	0.37	0.99
NVNT	g	2412	Ant1	93.94	0.27	1.61
NVNT	g	2437	Ant1	93.94	0.27	1.61
NVNT	g	2462	Ant1	93.94	0.27	1.61
NVNT	n(HT20)	2412	Ant1	93.94	0.27	1.61
NVNT	n(HT20)	2437	Ant1	92.42	0.34	1.64
NVNT	n(HT20)	2462	Ant1	92.42	0.34	1.64
NVNT	n(HT40)	2422	Ant1	32.6	4.87	1.69
NVNT	n(HT40)	2437	Ant1	32.6	4.87	1.69
NVNT	n(HT40)	2452	Ant1	32.22	4.92	1.72

Test Graphs

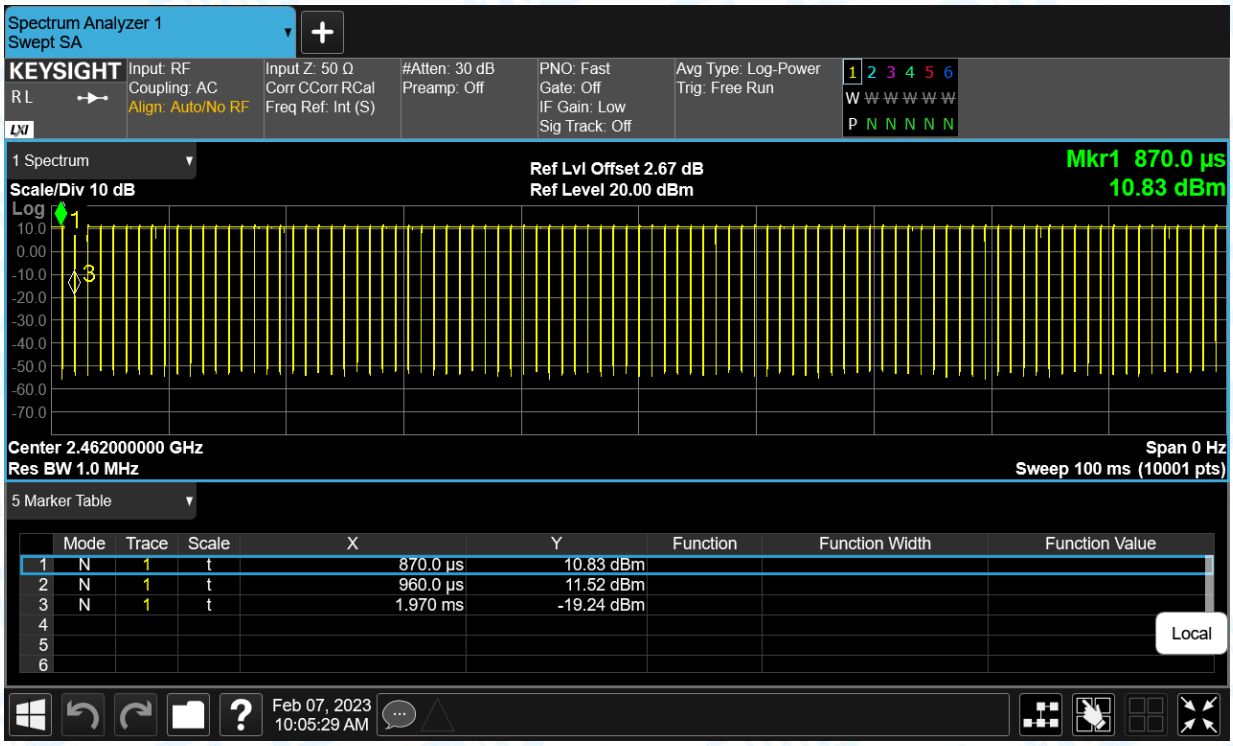
Duty Cycle NVNT b 2412MHz Ant1



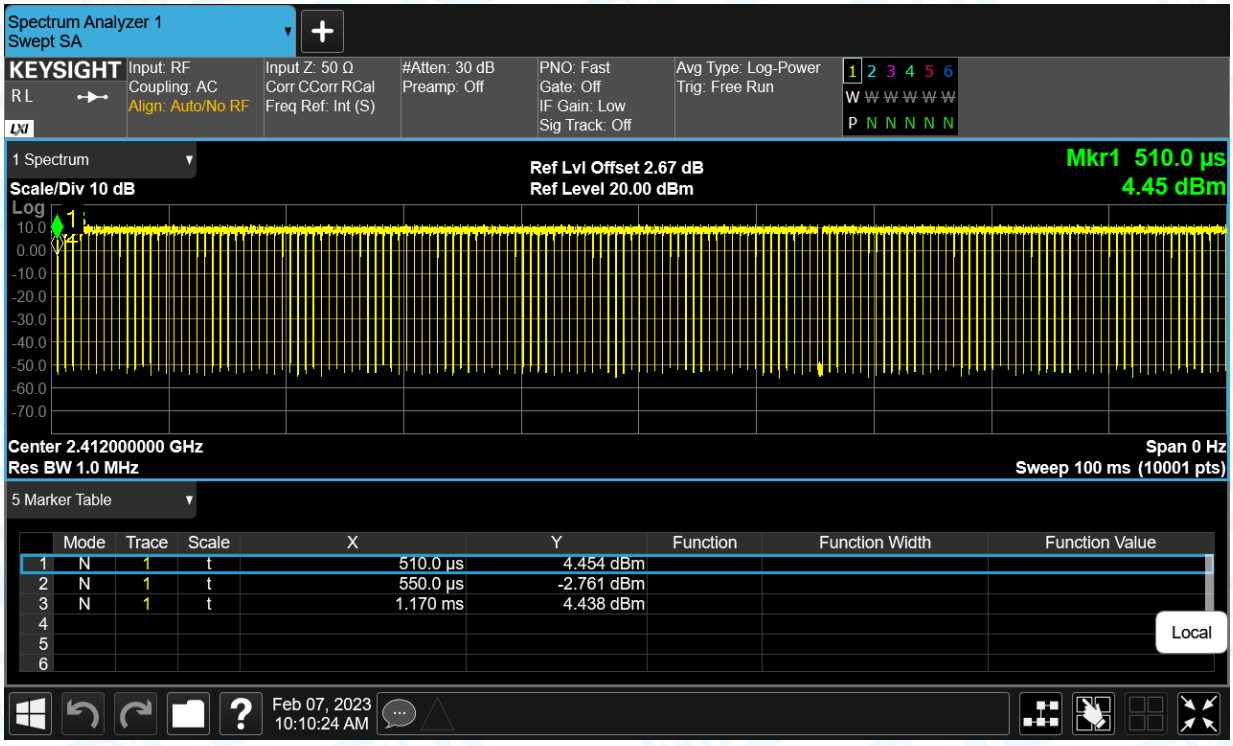
Duty Cycle NVNT b 2437MHz Ant1



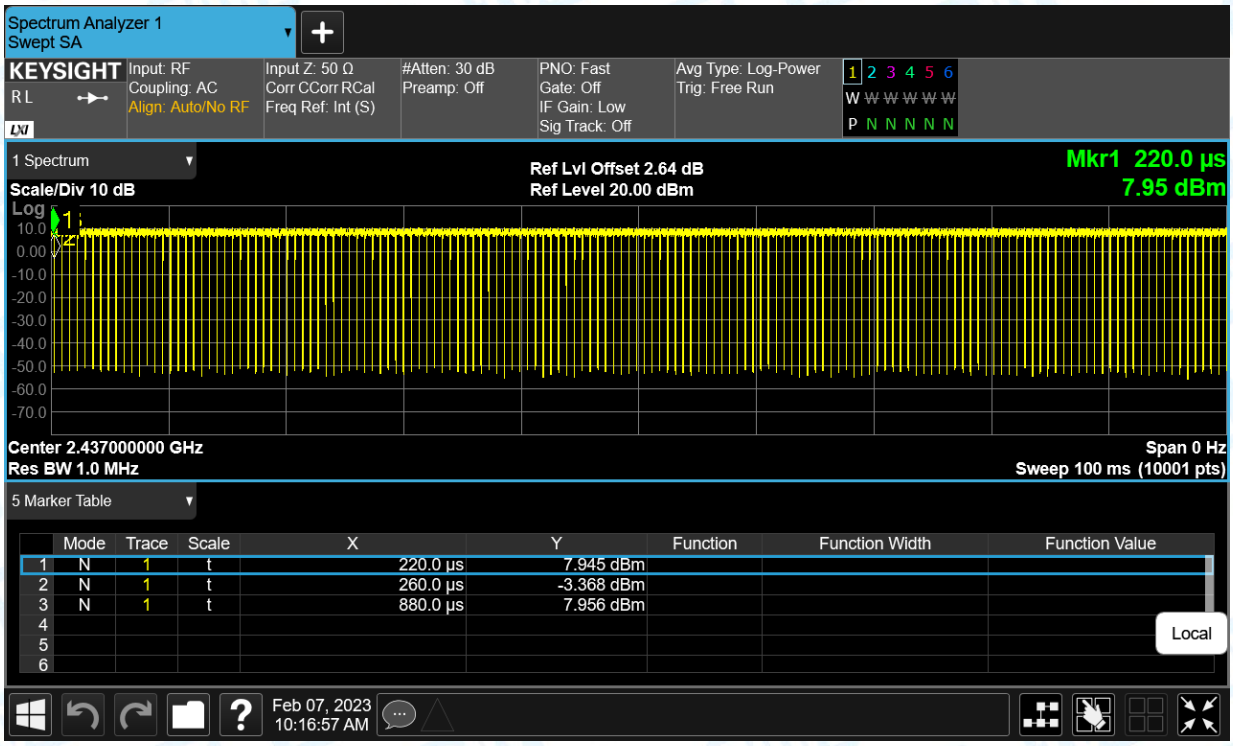
Duty Cycle NVNT b 2462MHz Ant1



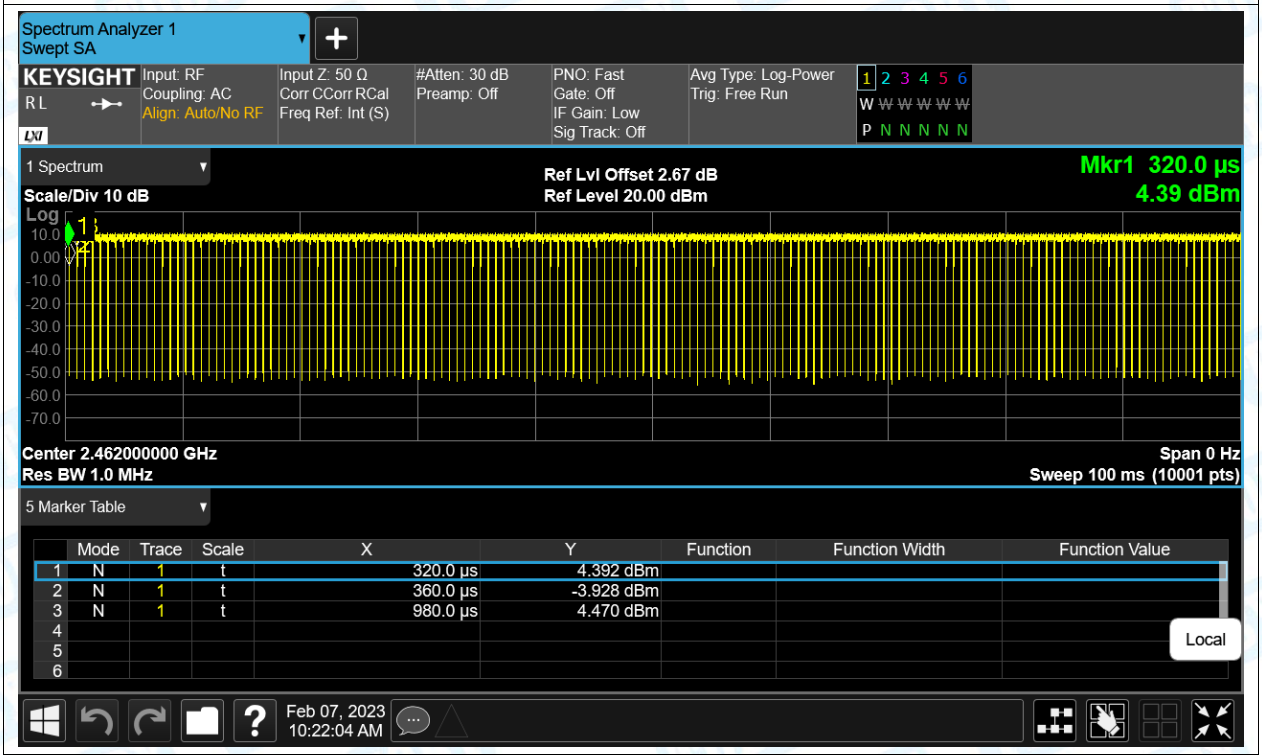
Duty Cycle NVNT g 2412MHz Ant1



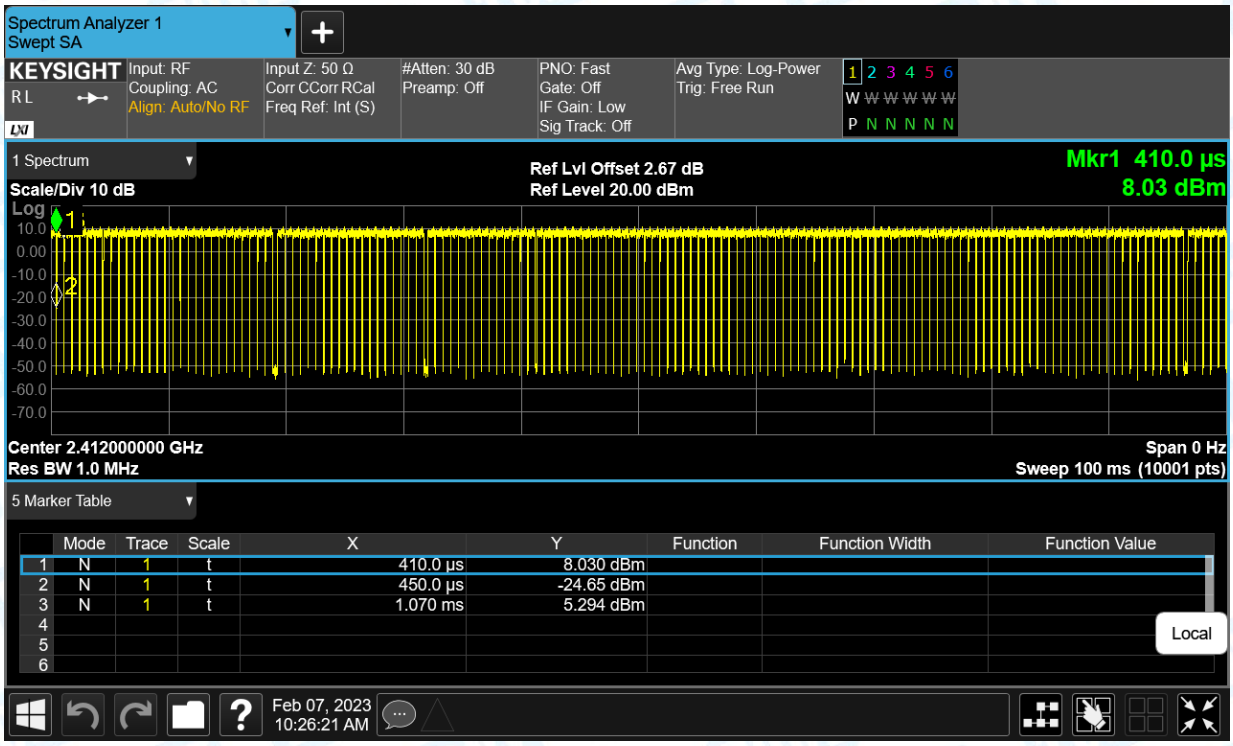
Duty Cycle NVNT g 2437MHz Ant1



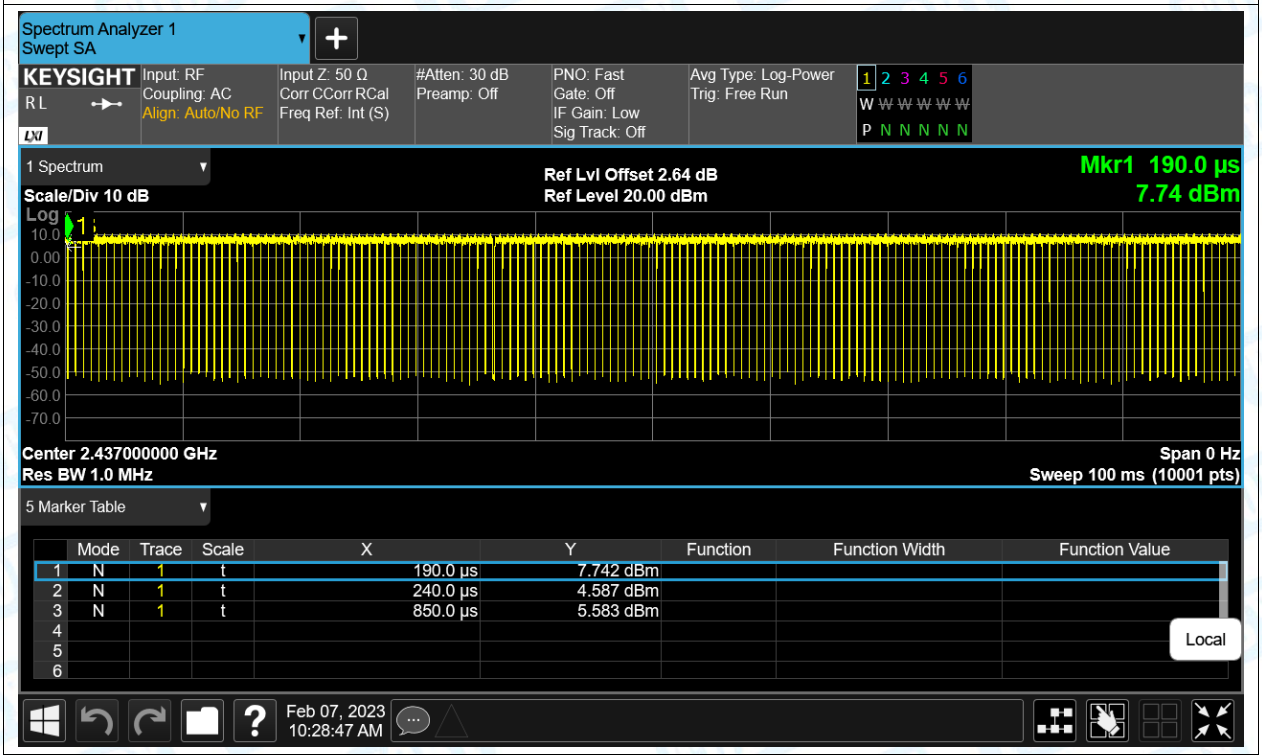
Duty Cycle NVNT g 2462MHz Ant1



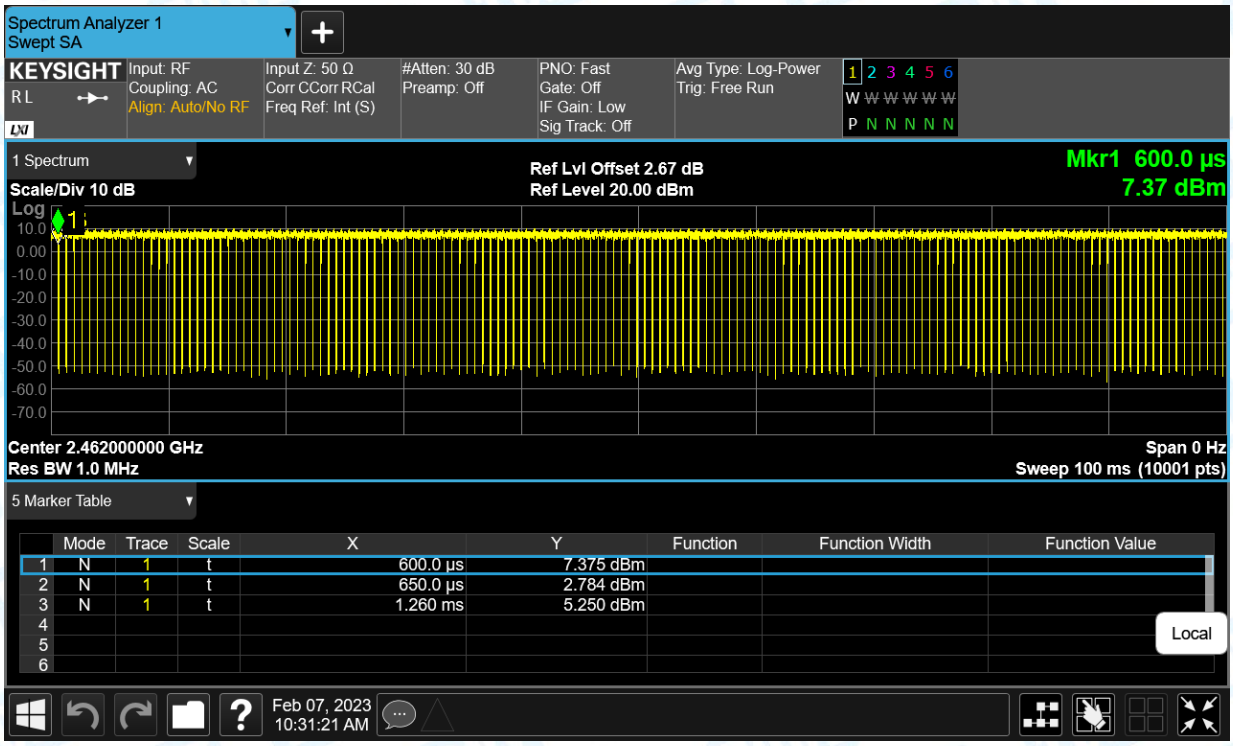
Duty Cycle NVNT n(HT20) 2412MHz Ant1



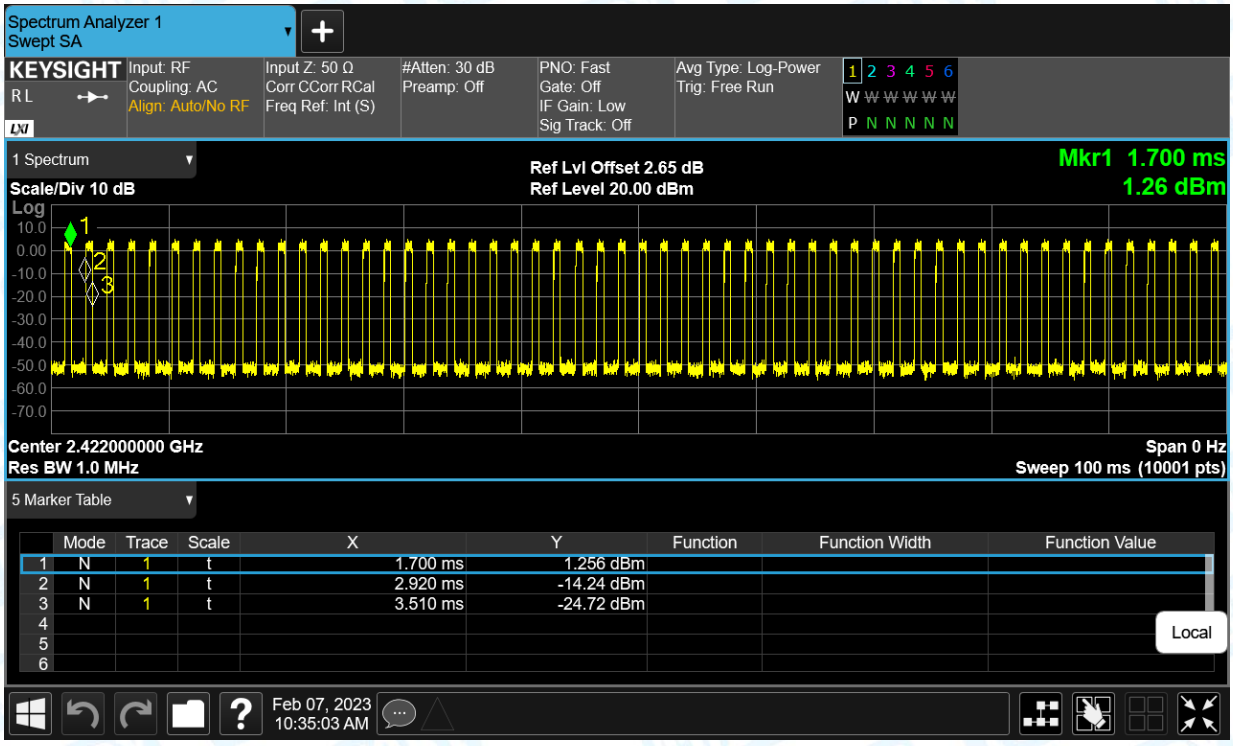
Duty Cycle NVNT n(HT20) 2437MHz Ant1



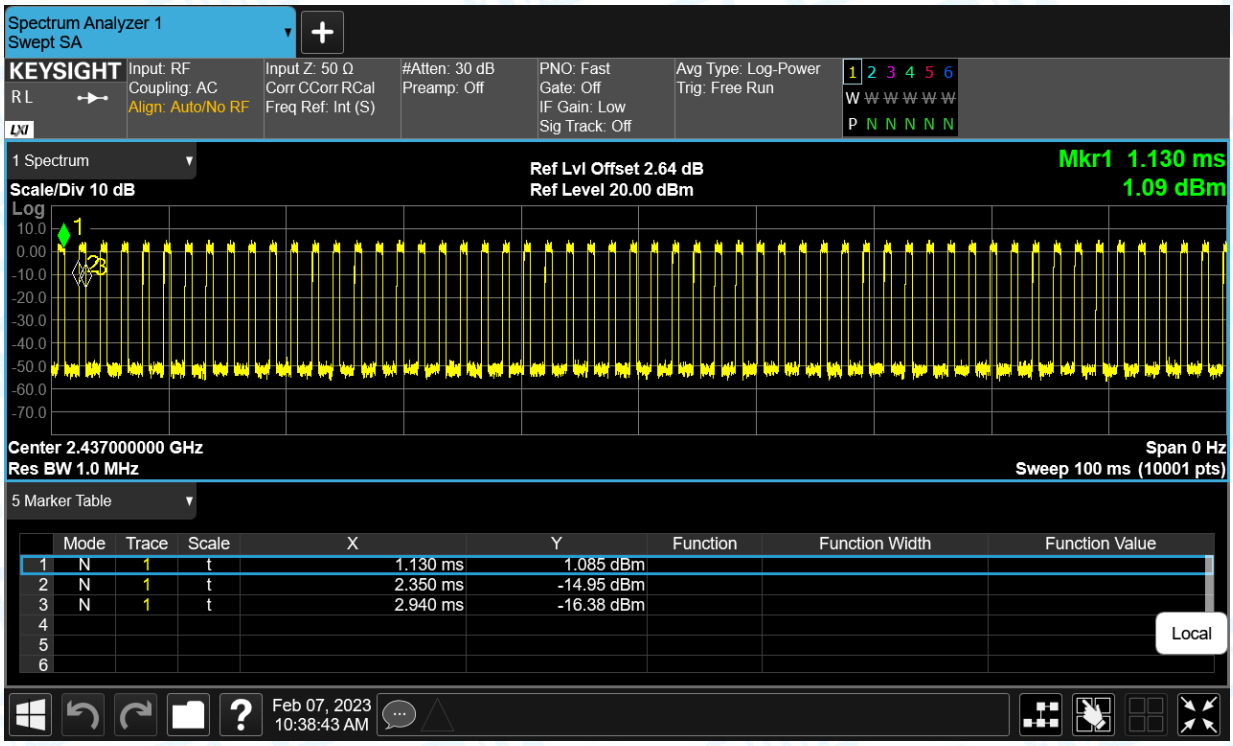
Duty Cycle NVNT n(HT20) 2462MHz Ant1



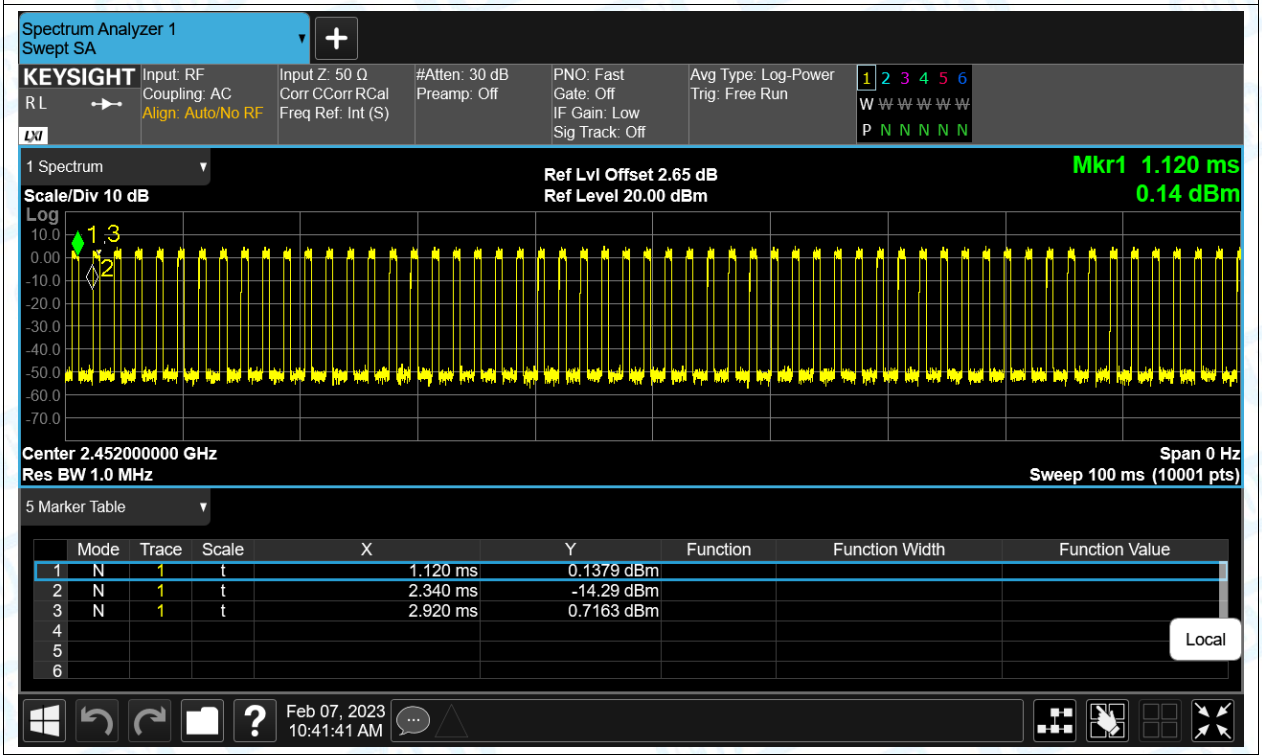
Duty Cycle NVNT n(HT40) 2422MHz Ant1



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	16.7	30	Pass
NVNT	b	2437	Ant1	16.174	30	Pass
NVNT	b	2462	Ant1	15.876	30	Pass
NVNT	g	2412	Ant1	16.017	30	Pass
NVNT	g	2437	Ant1	15.398	30	Pass
NVNT	g	2462	Ant1	15.749	30	Pass
NVNT	n(HT20)	2412	Ant1	15.406	30	Pass
NVNT	n(HT20)	2437	Ant1	15.061	30	Pass
NVNT	n(HT20)	2462	Ant1	14.68	30	Pass
NVNT	n(HT40)	2422	Ant1	10.729	30	Pass
NVNT	n(HT40)	2437	Ant1	10.427	30	Pass
NVNT	n(HT40)	2452	Ant1	9.673	30	Pass

3. -6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	9.05	0.5	Pass
NVNT	b	2437	Ant1	8.55	0.5	Pass
NVNT	b	2462	Ant1	10	0.5	Pass
NVNT	g	2412	Ant1	16.29	0.5	Pass
NVNT	g	2437	Ant1	16.04	0.5	Pass
NVNT	g	2462	Ant1	16.3	0.5	Pass
NVNT	n(HT20)	2412	Ant1	16.04	0.5	Pass
NVNT	n(HT20)	2437	Ant1	17.39	0.5	Pass
NVNT	n(HT20)	2462	Ant1	17.02	0.5	Pass
NVNT	n(HT40)	2422	Ant1	35.44	0.5	Pass
NVNT	n(HT40)	2437	Ant1	35.03	0.5	Pass
NVNT	n(HT40)	2452	Ant1	35.3	0.5	Pass

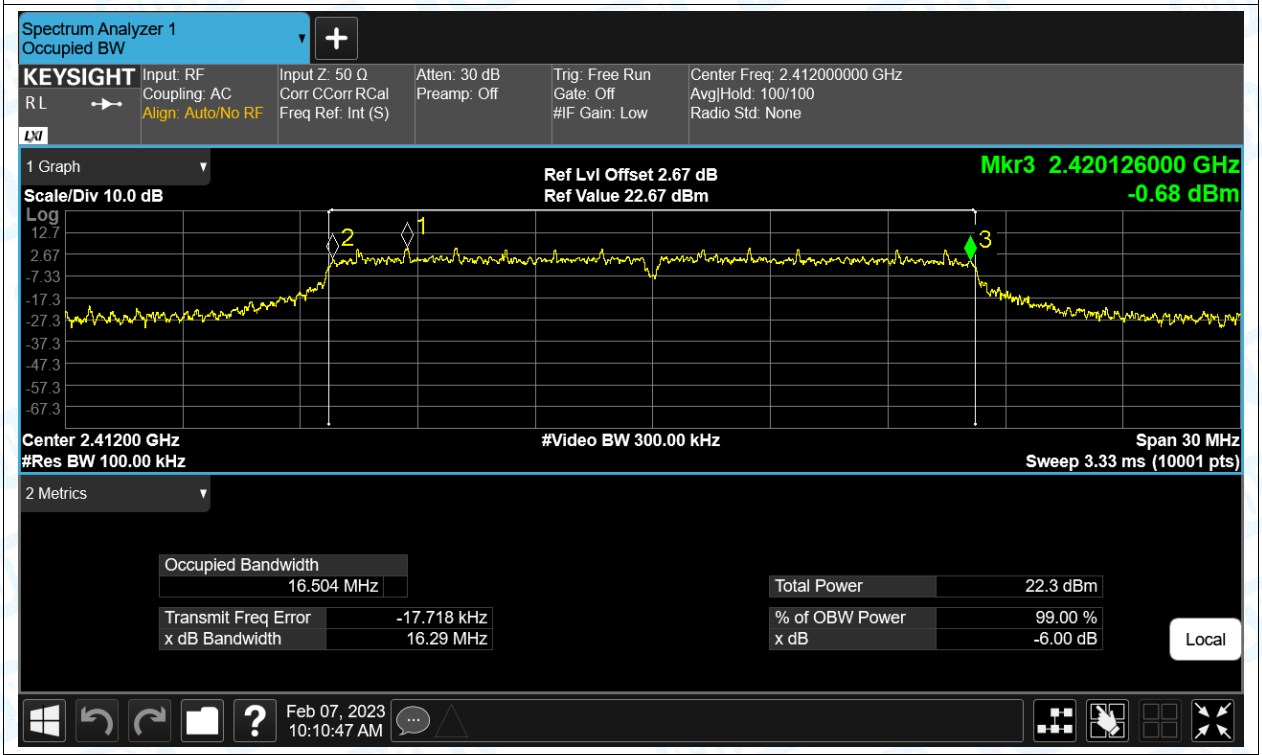
Test Graphs

-6dB Bandwidth NVNT b 2412MHz Ant1

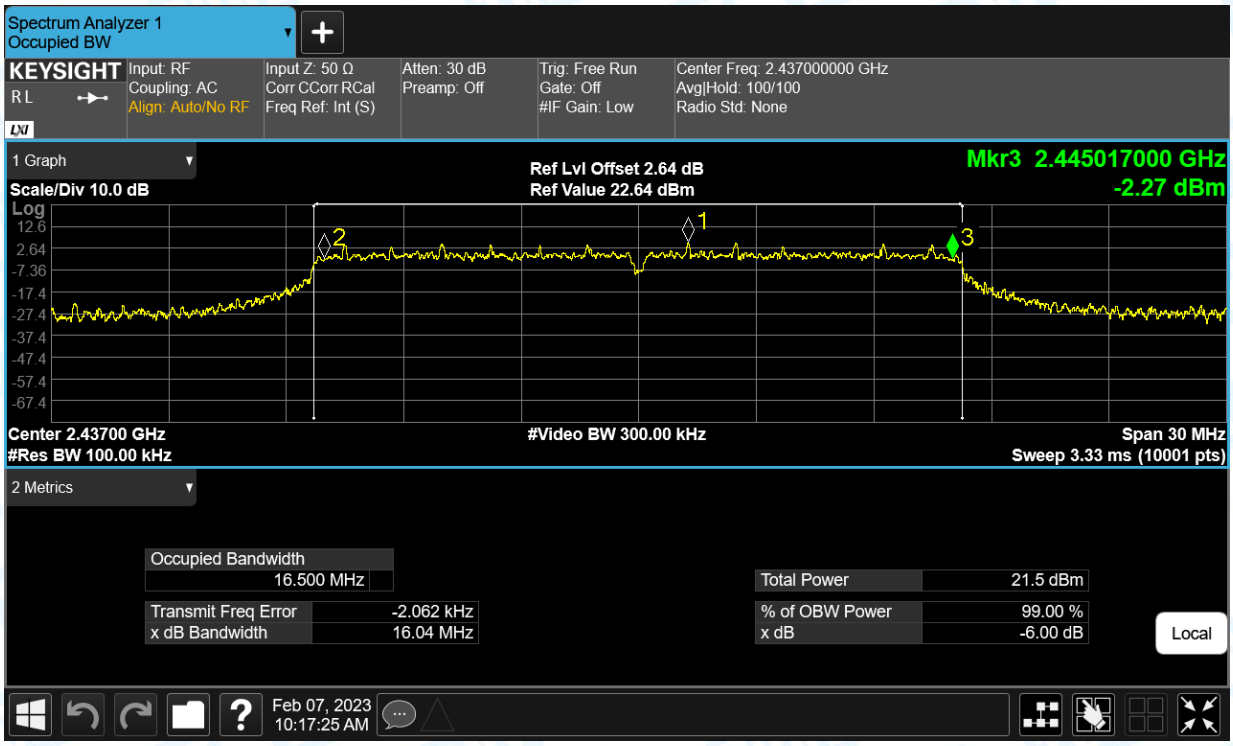
-6dB Bandwidth NVNT b 2437MHz Ant1

-6dB Bandwidth NVNT b 2462MHz Ant1

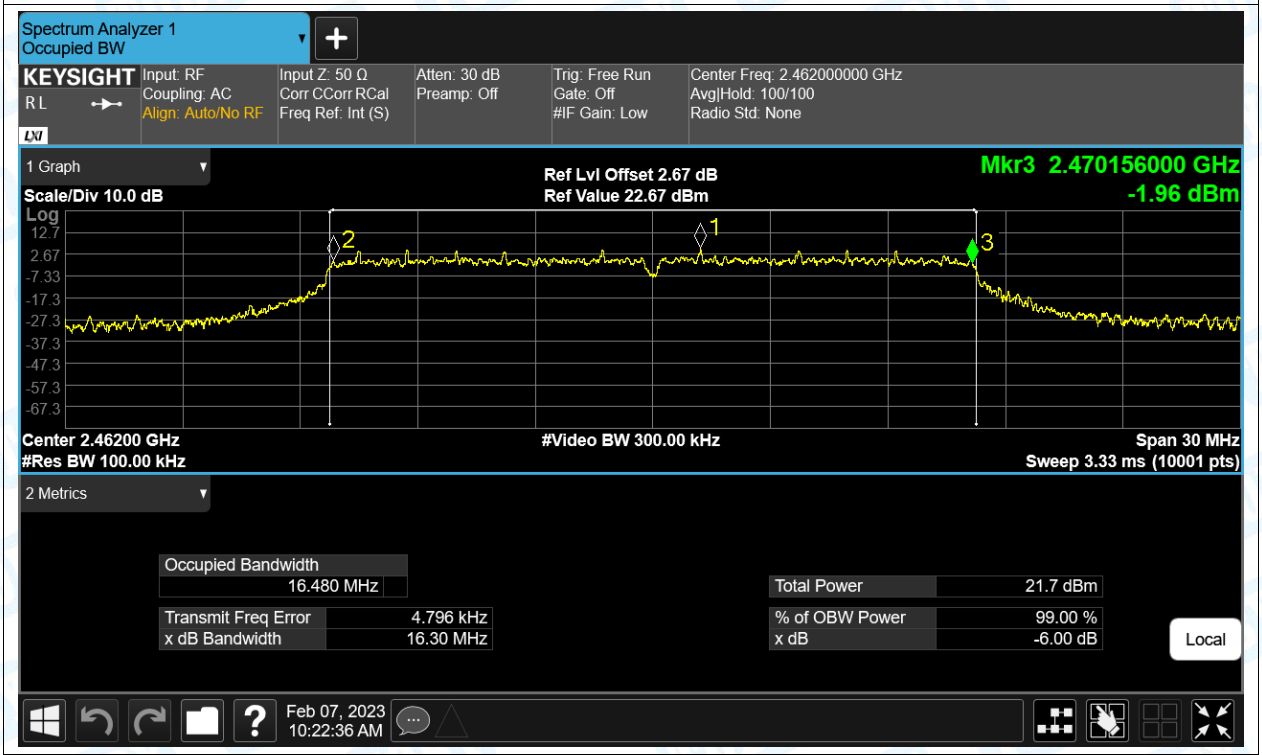
-6dB Bandwidth NVNT g 2412MHz Ant1



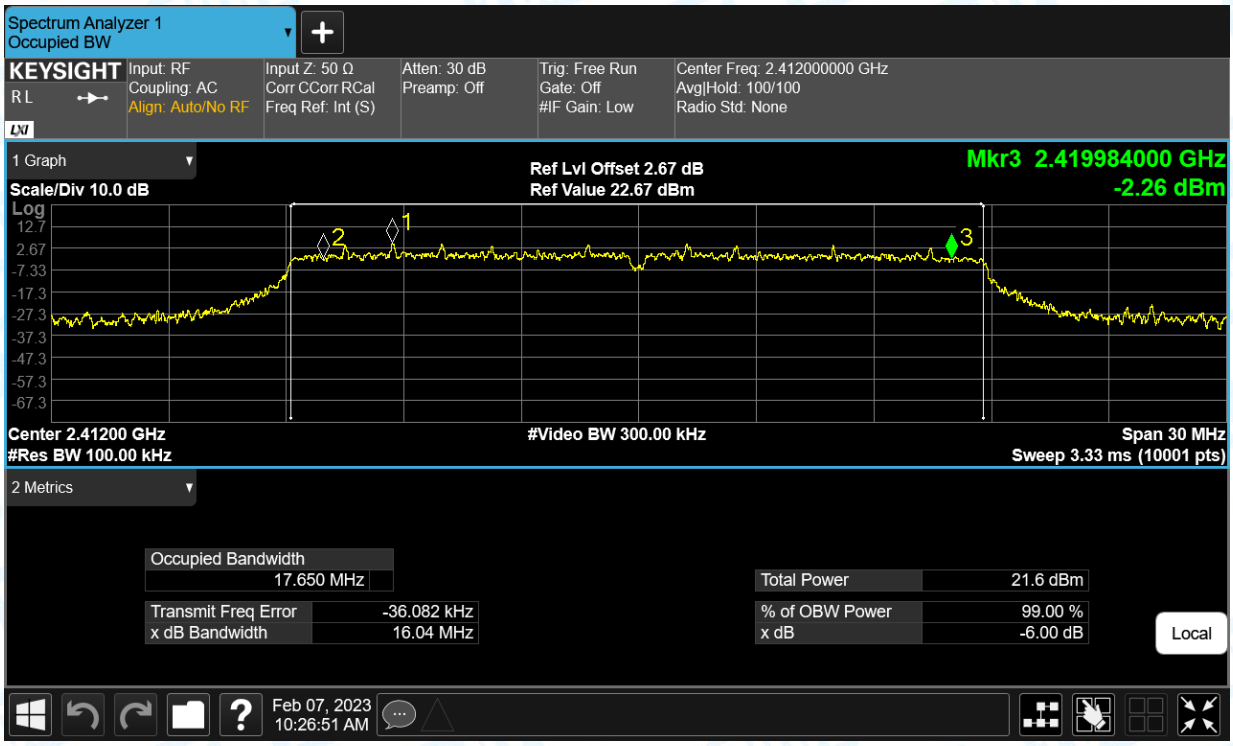
-6dB Bandwidth NVNT g 2437MHz Ant1



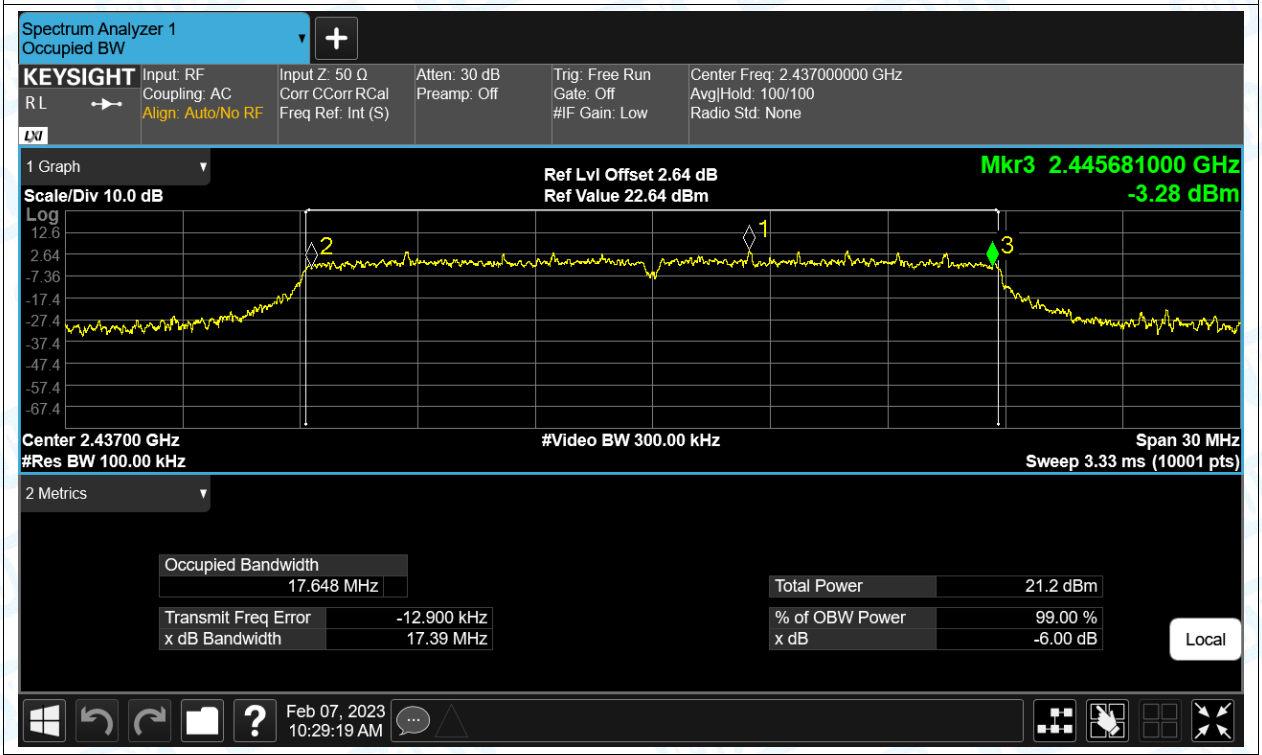
-6dB Bandwidth NVNT g 2462MHz Ant1



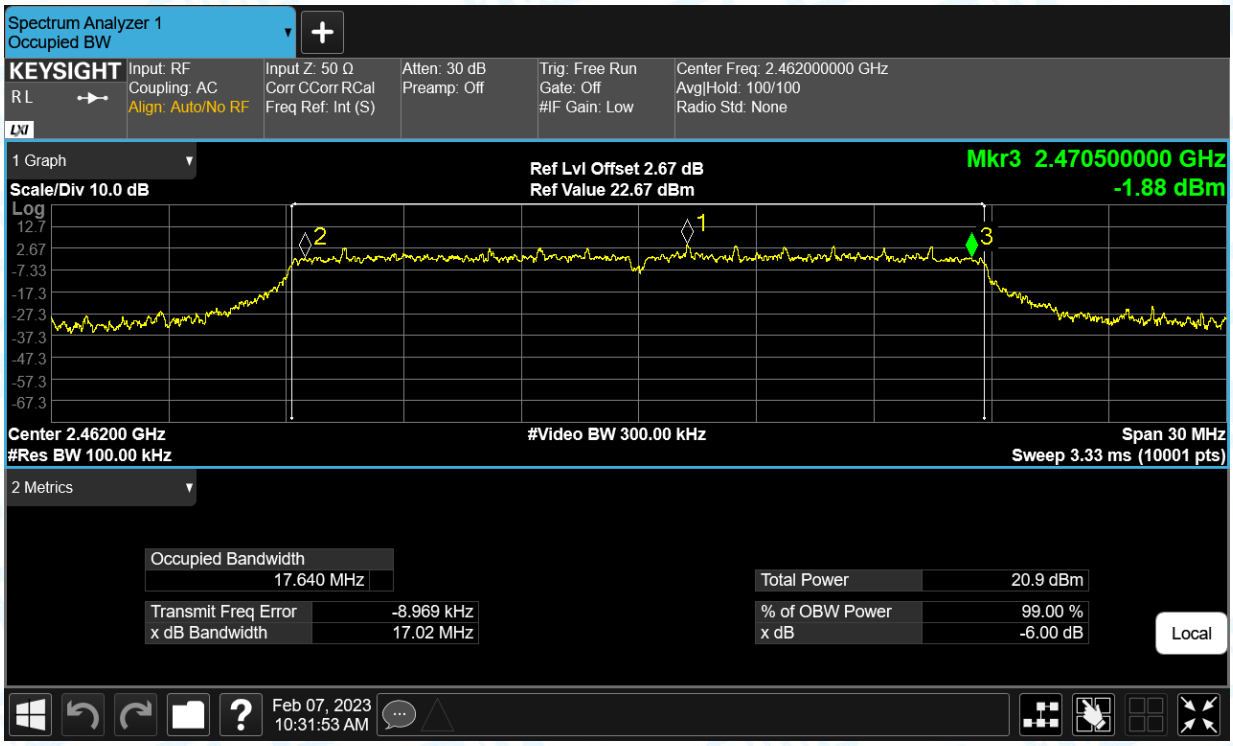
-6dB Bandwidth NVNT n(HT20) 2412MHz Ant1



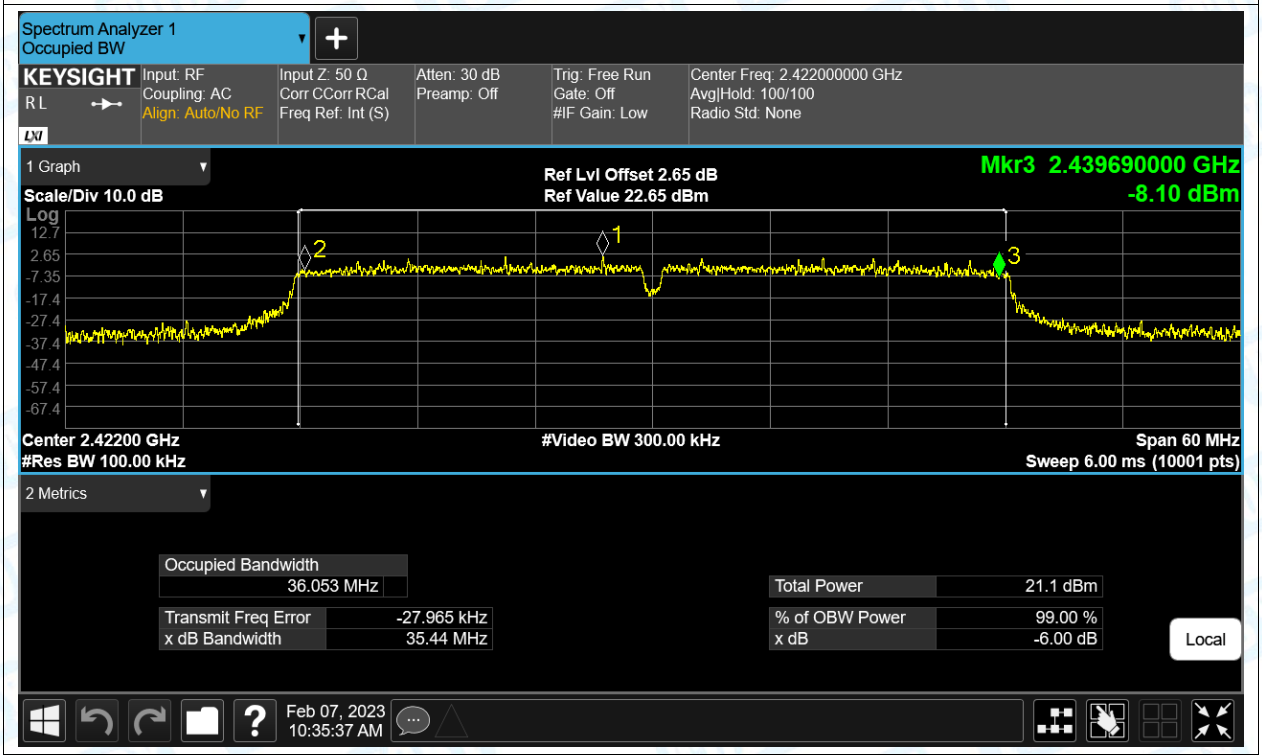
-6dB Bandwidth NVNT n(HT20) 2437MHz Ant1



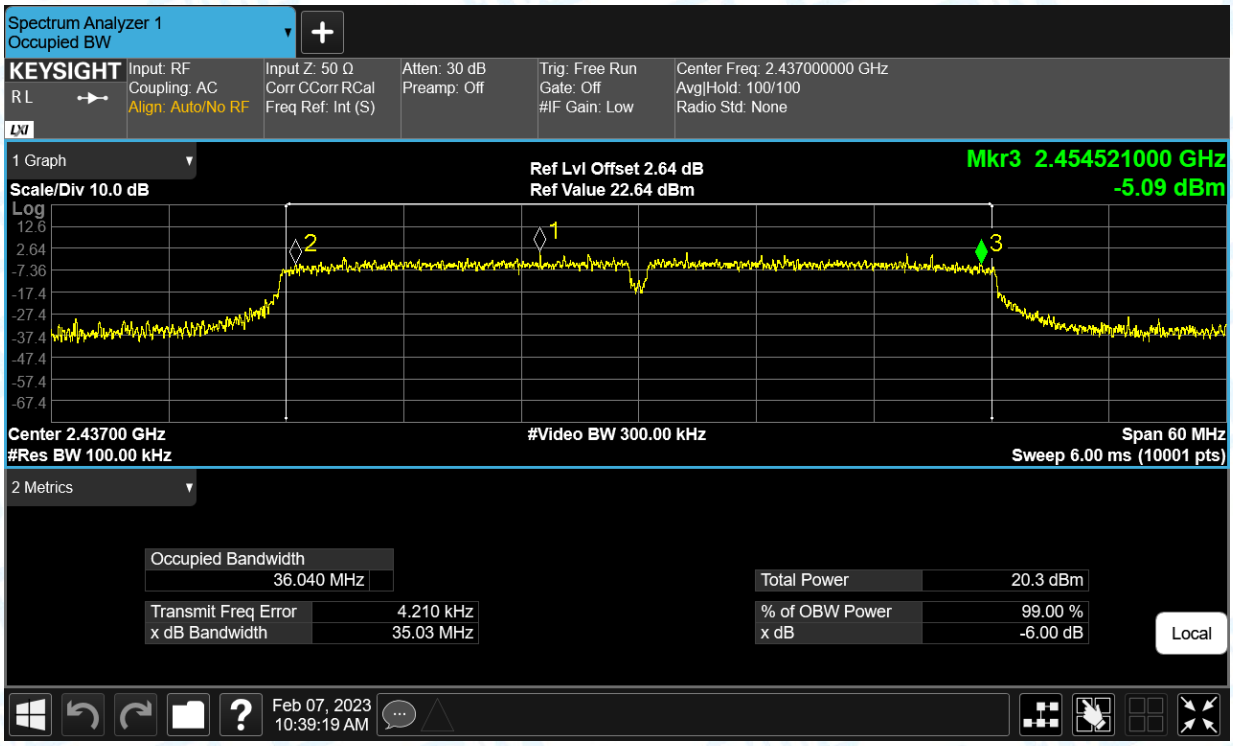
-6dB Bandwidth NVNT n(HT20) 2462MHz Ant1



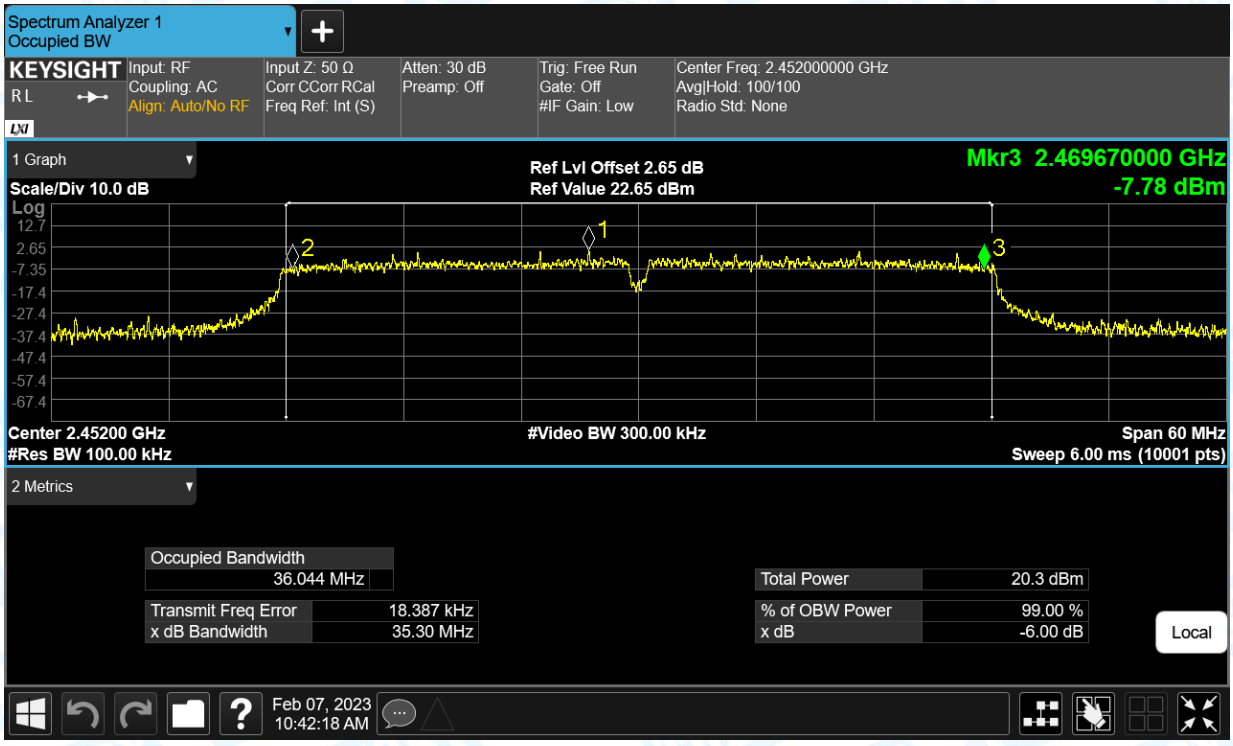
-6dB Bandwidth NVNT n(HT40) 2422MHz Ant1



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



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

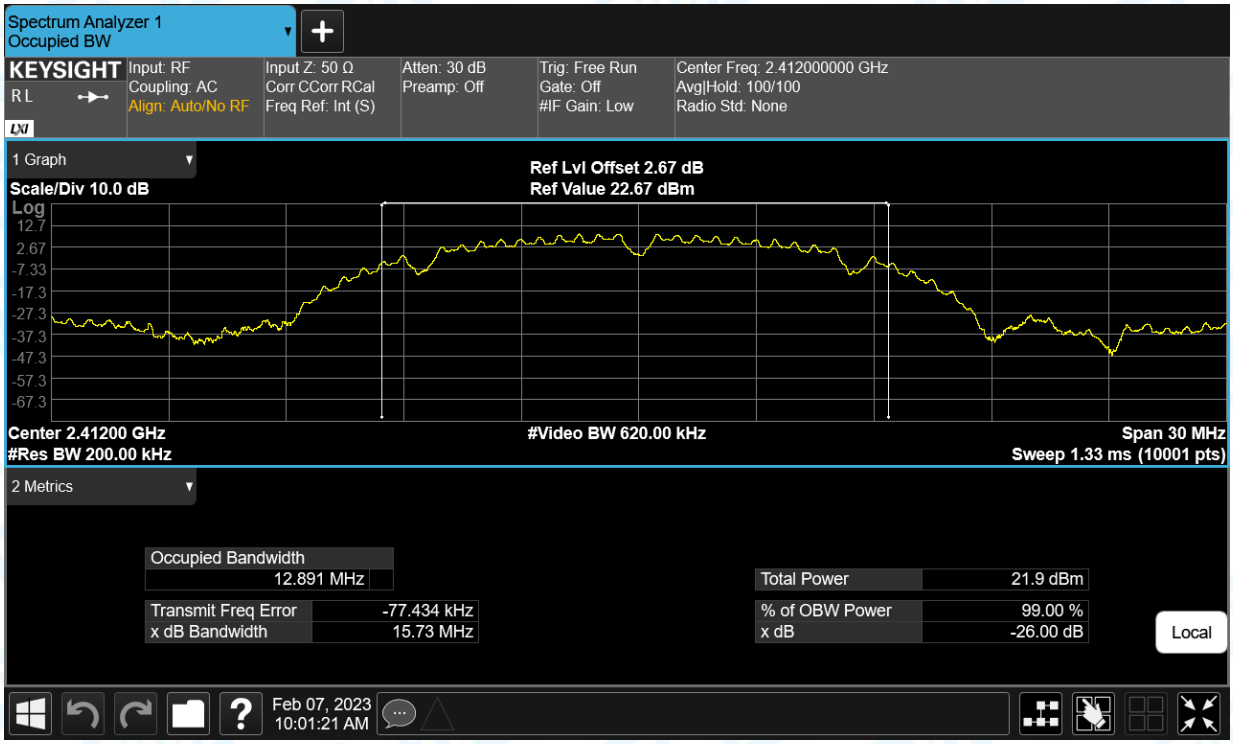


4. Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	b	2412	Ant1	12.891
NVNT	b	2437	Ant1	12.868
NVNT	b	2462	Ant1	12.889
NVNT	g	2412	Ant1	16.65
NVNT	g	2437	Ant1	16.636
NVNT	g	2462	Ant1	16.627
NVNT	n(HT20)	2412	Ant1	17.751
NVNT	n(HT20)	2437	Ant1	17.726
NVNT	n(HT20)	2462	Ant1	17.722
NVNT	n(HT40)	2422	Ant1	36.114
NVNT	n(HT40)	2437	Ant1	36.072
NVNT	n(HT40)	2452	Ant1	36.132

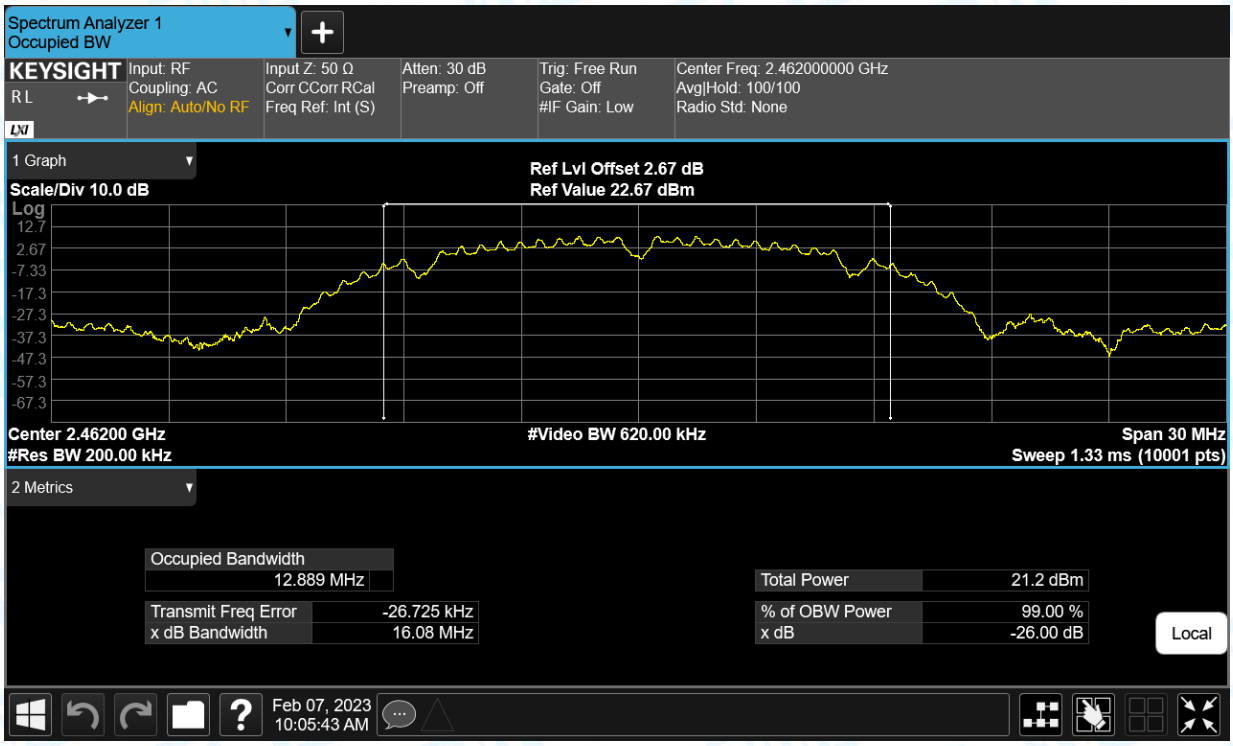
Test Graphs

OBW NVNT b 2412MHz Ant1

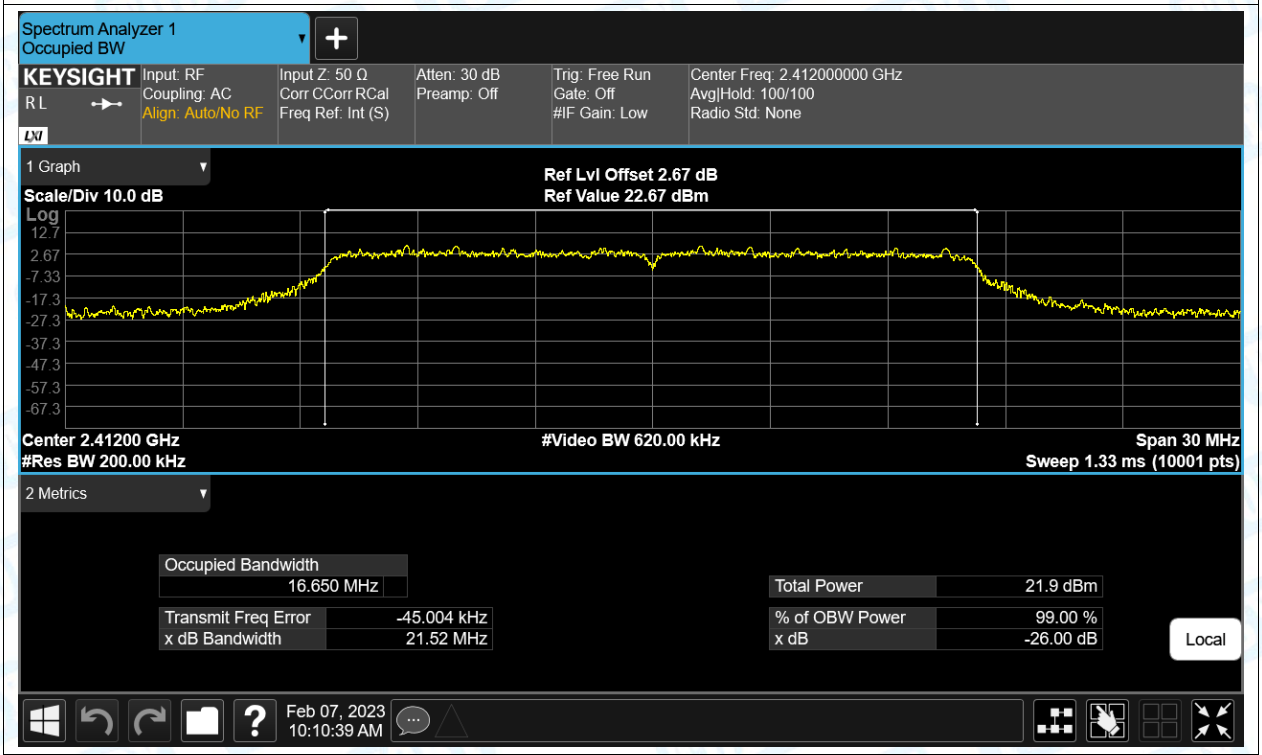


OBW NVNT b 2437MHz Ant1

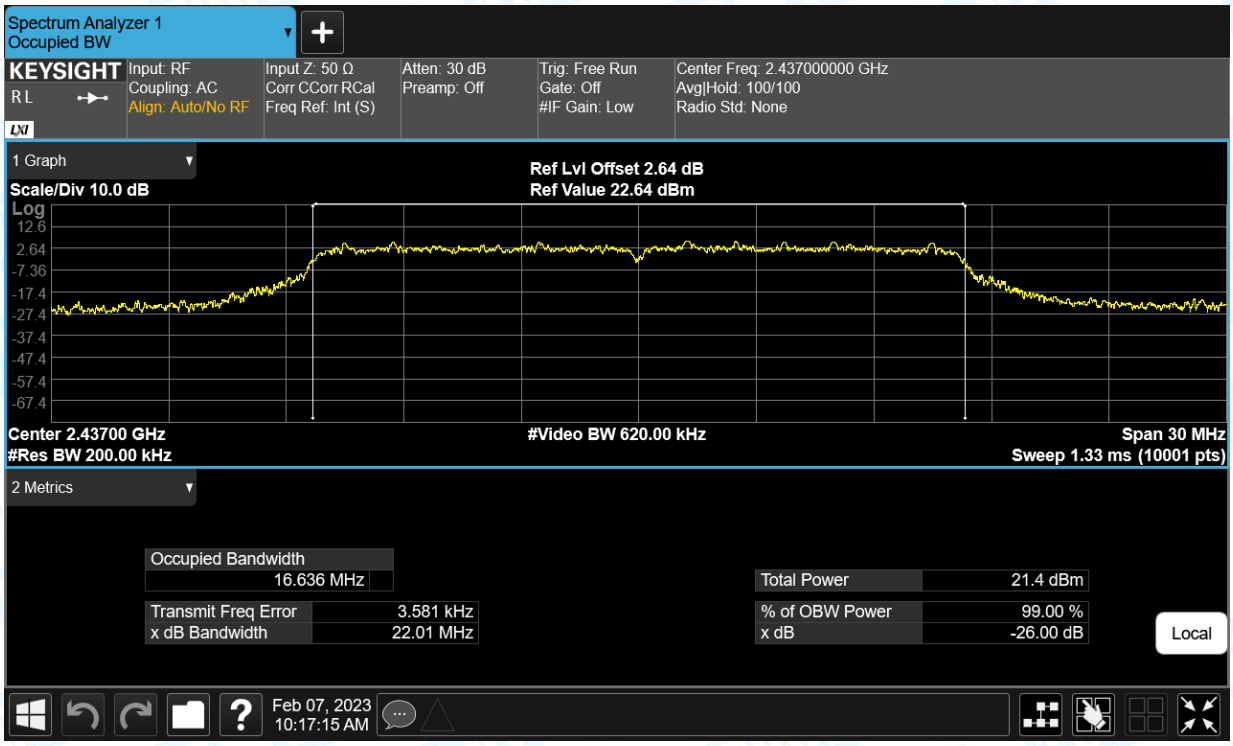
OBW NVNT b 2462MHz Ant1



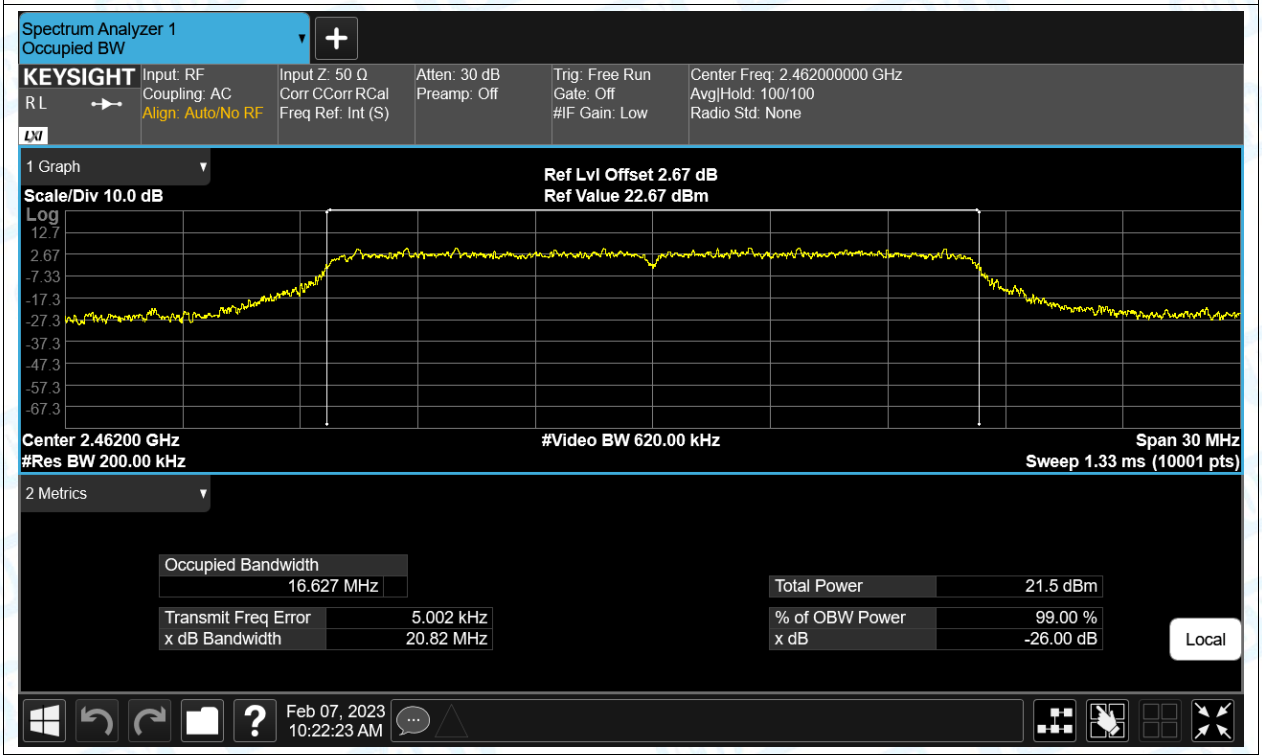
OBW NVNT g 2412MHz Ant1



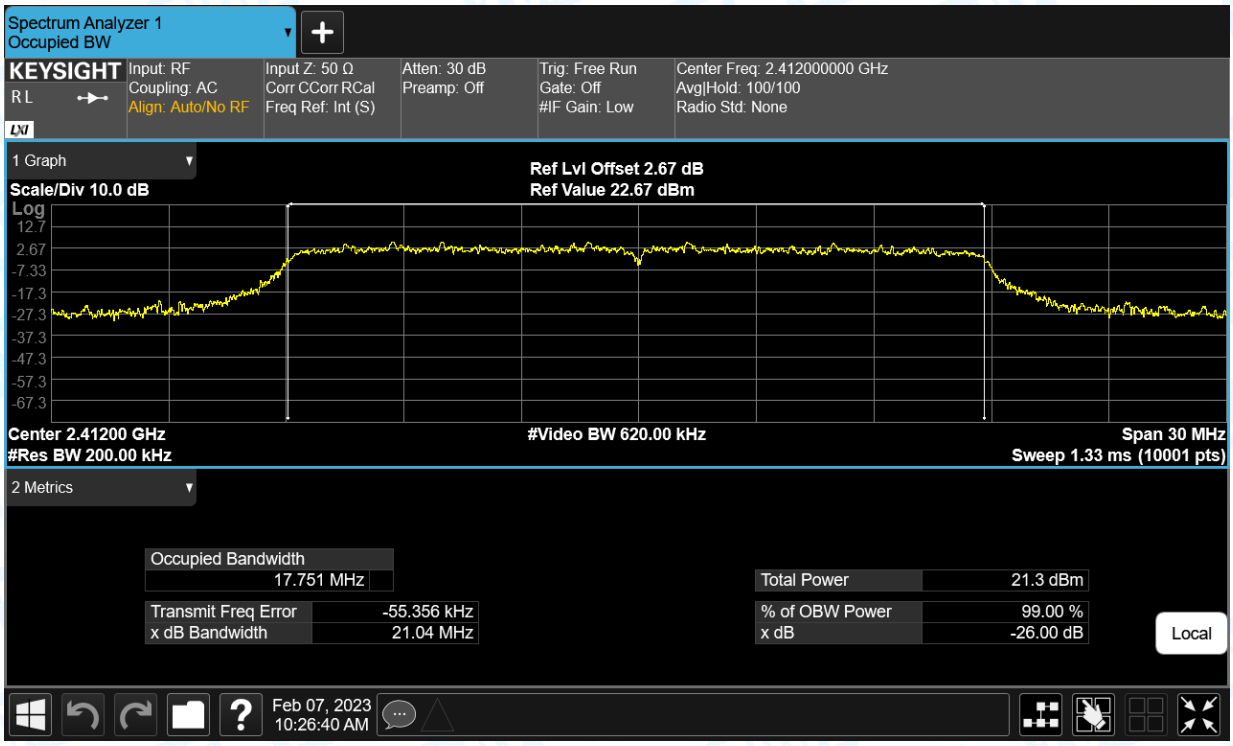
OBW NVNT g 2437MHz Ant1



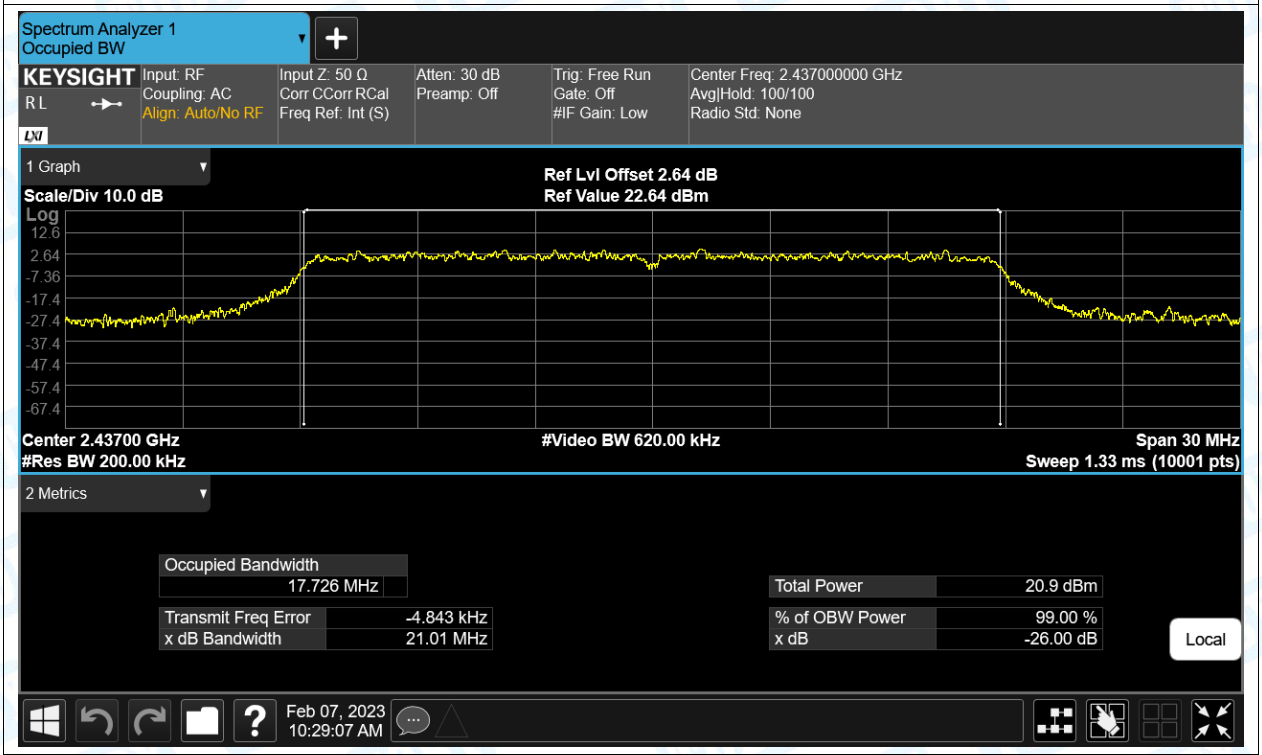
OBW NVNT g 2462MHz Ant1



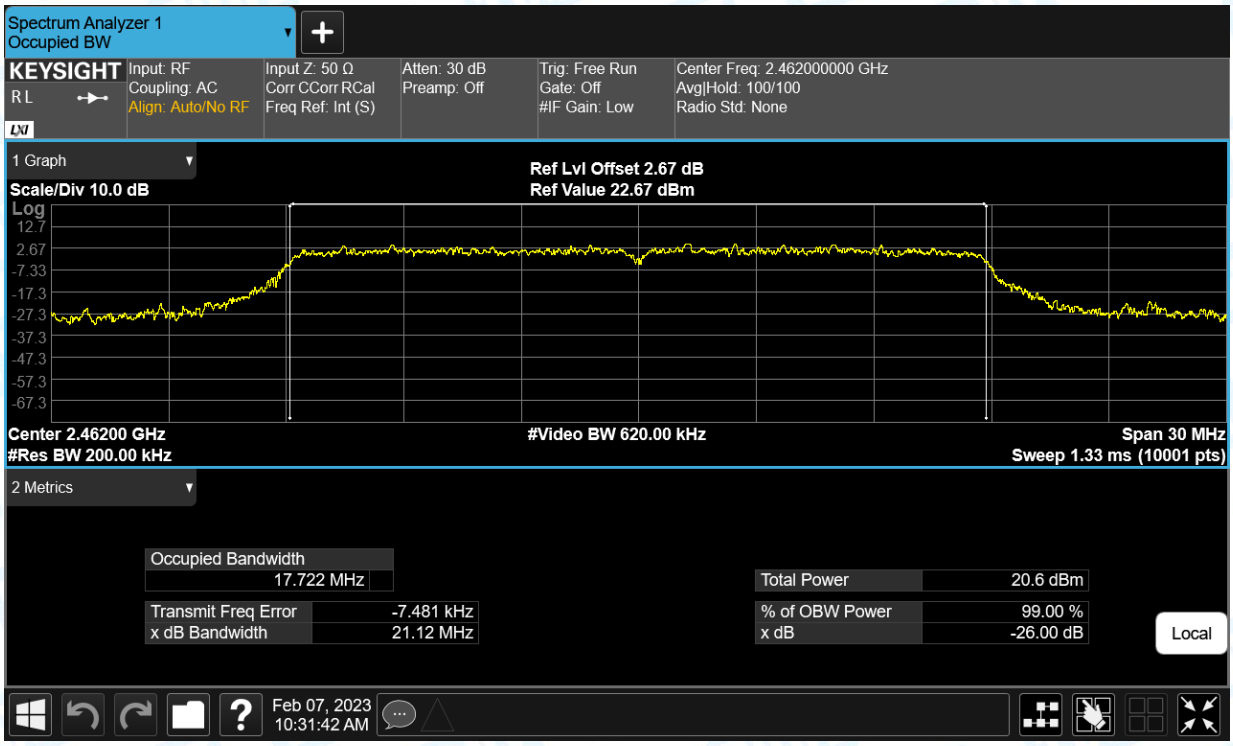
OBW NVNT n(HT20) 2412MHz Ant1



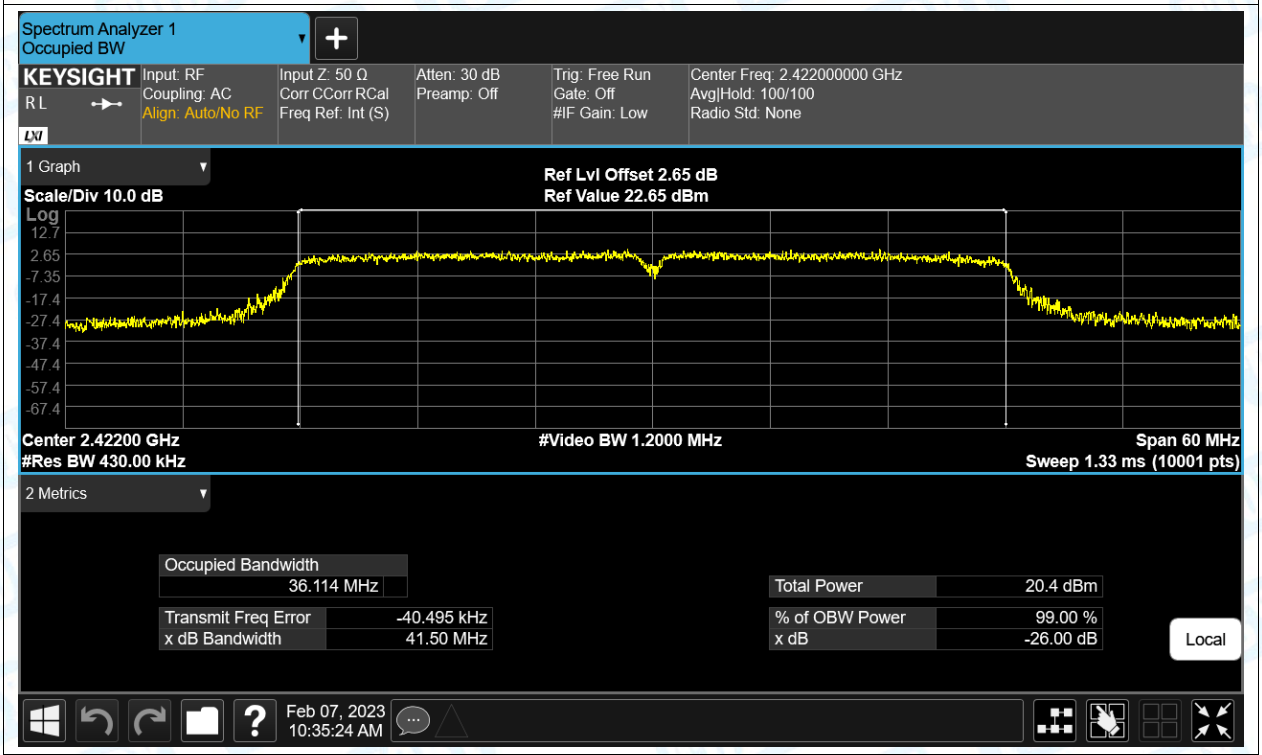
OBW NVNT n(HT20) 2437MHz Ant1



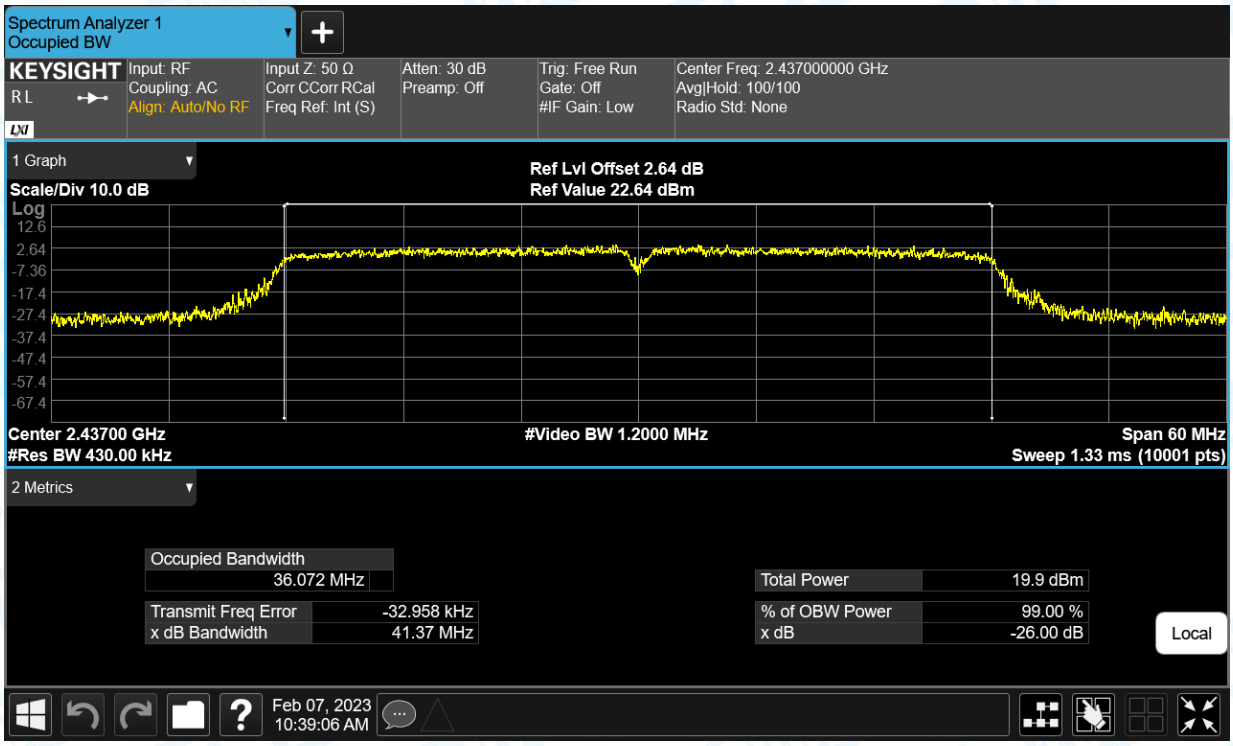
OBW NVNT n(HT20) 2462MHz Ant1



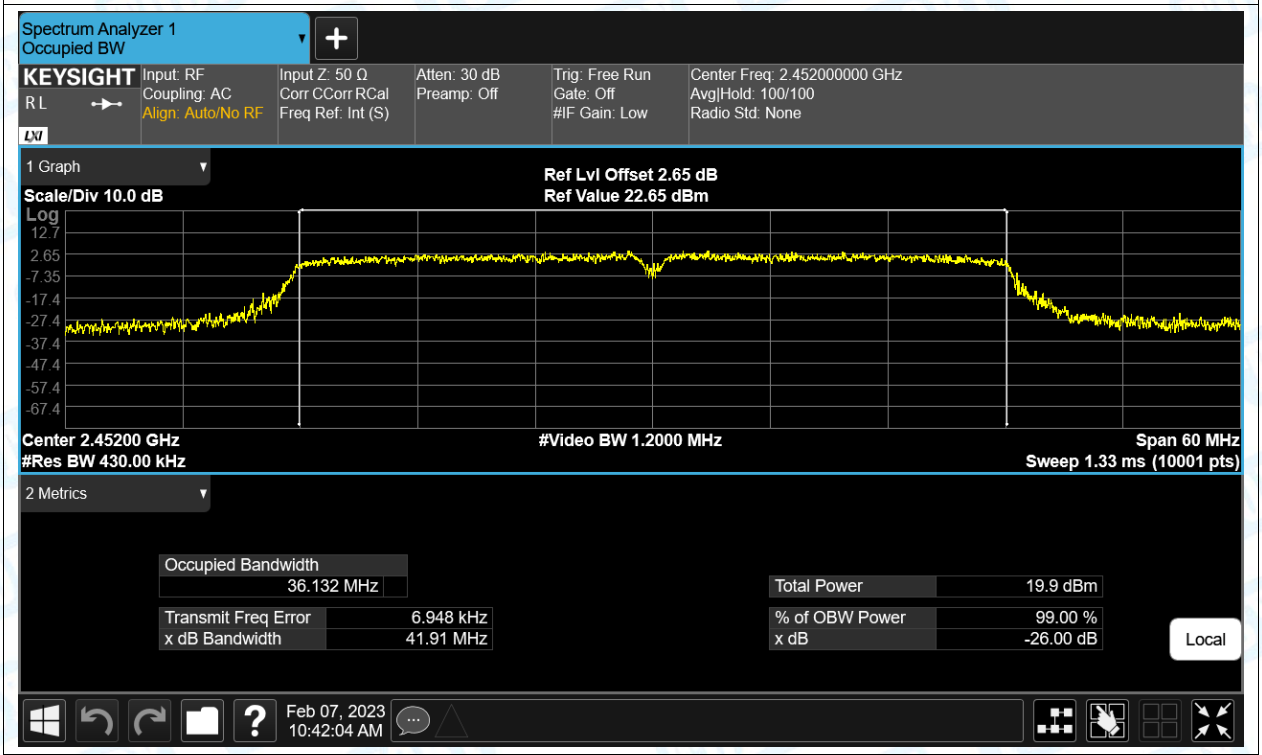
OBW NVNT n(HT40) 2422MHz Ant1



OBW NVNT n(HT40) 2437MHz Ant1



OBW NVNT n(HT40) 2452MHz Ant1

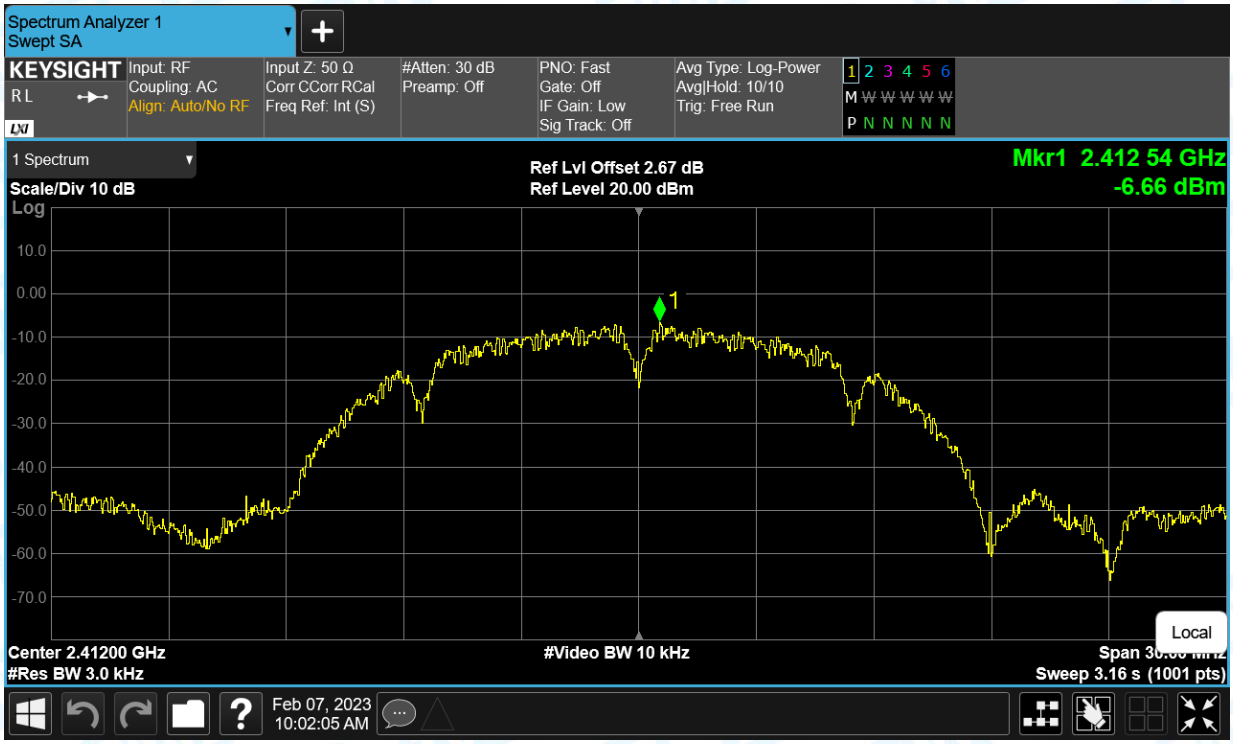


5. Maximum Power Spectral Density Level

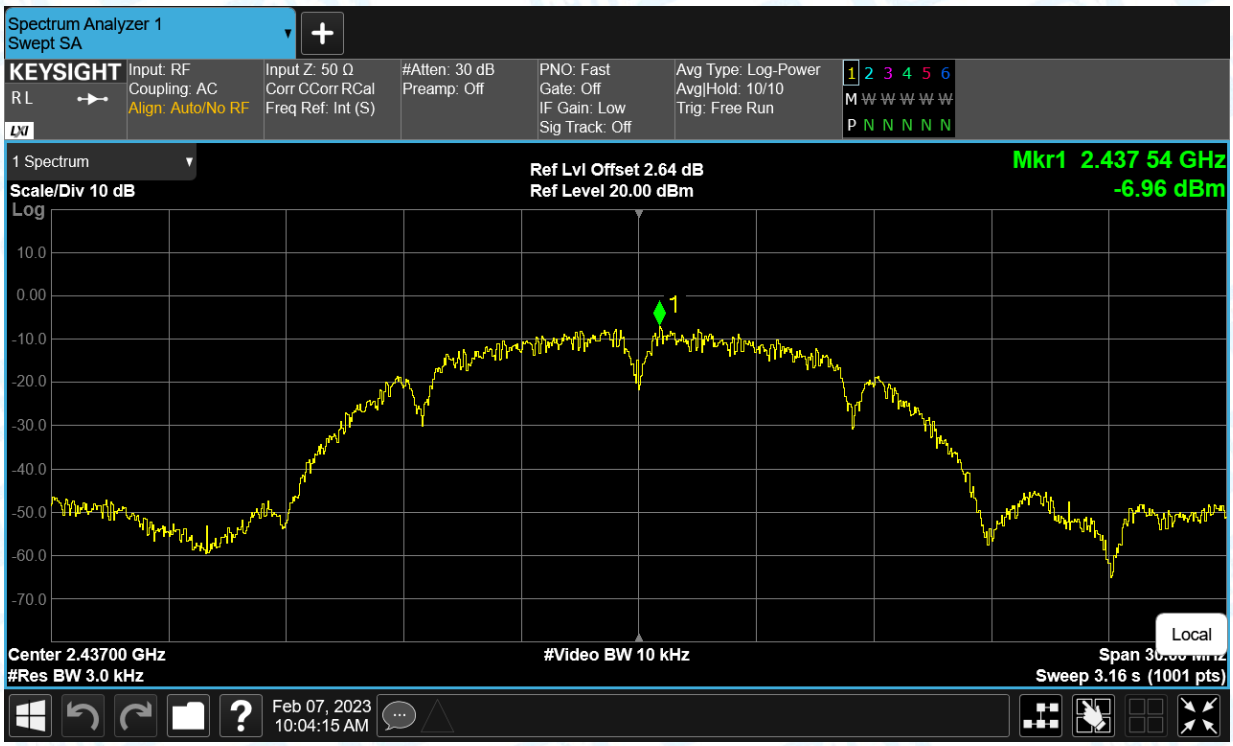
Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	-6.655	8	Pass
NVNT	b	2437	Ant1	-6.955	8	Pass
NVNT	b	2462	Ant1	-7.848	8	Pass
NVNT	g	2412	Ant1	-9.462	8	Pass
NVNT	g	2437	Ant1	-10.546	8	Pass
NVNT	g	2462	Ant1	-9.973	8	Pass
NVNT	n(HT20)	2412	Ant1	-9.485	8	Pass
NVNT	n(HT20)	2437	Ant1	-9.608	8	Pass
NVNT	n(HT20)	2462	Ant1	-10.039	8	Pass
NVNT	n(HT40)	2422	Ant1	-11.772	8	Pass
NVNT	n(HT40)	2437	Ant1	-12.122	8	Pass
NVNT	n(HT40)	2452	Ant1	-12.171	8	Pass

Test Graphs

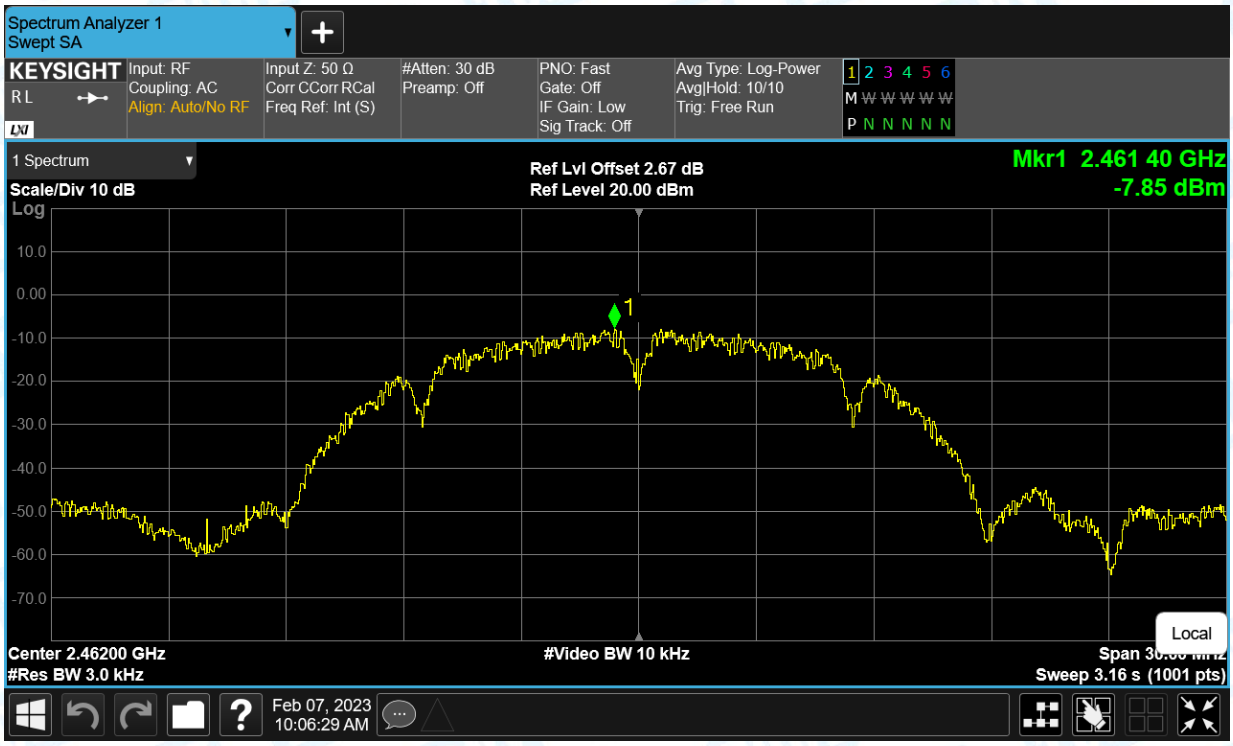
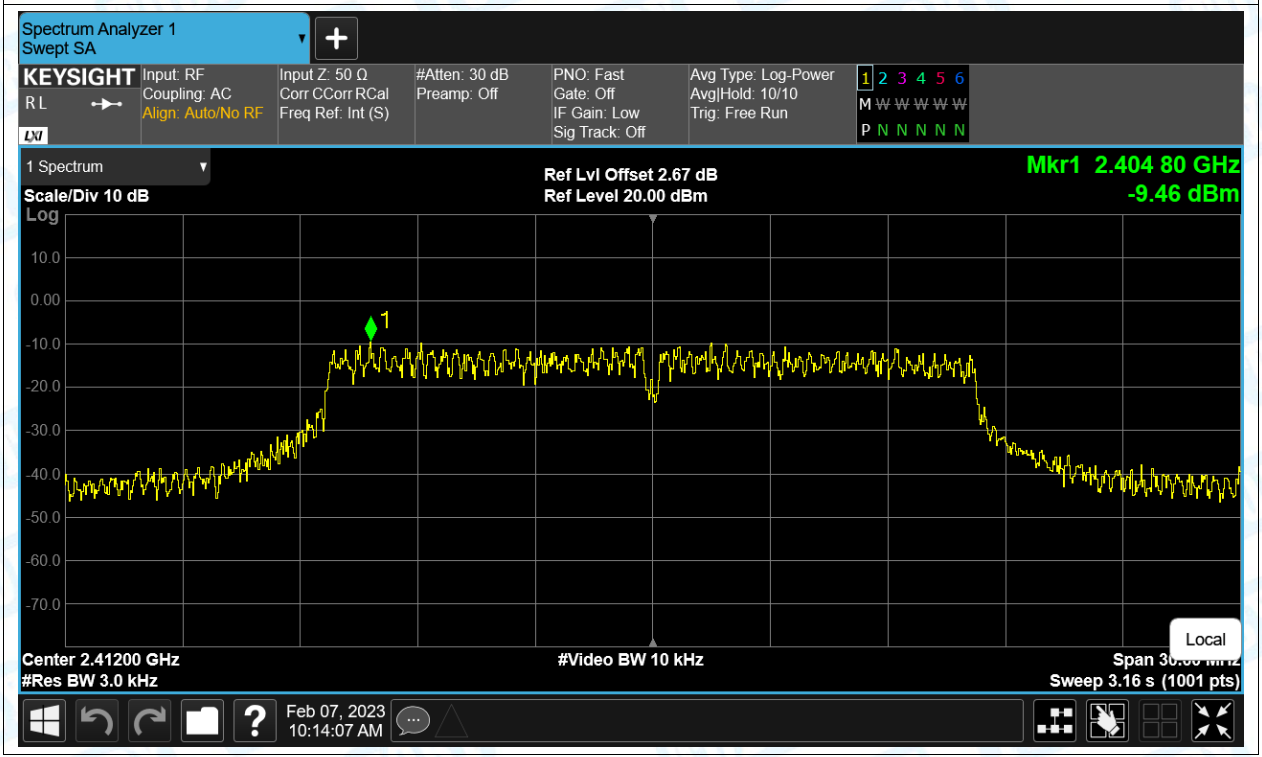
PSD NVNT b 2412MHz Ant1



PSD NVNT b 2437MHz Ant1



PSD NVNT b 2462MHz Ant1



PSD NVNT g 2412MHz Ant1