

RF Test Data for 2.4G WiFi (Conducted Measurements)

General Description of EUT	
Product Name:	Multimedia Projector
Test Model:	KAODCPPROV4
Sample ID:	RW-C-202209-0179-1-2#
Environmental Conditions	
Temperature:	25°C
Relative Humidity:	55%
Test Voltage:	DC 12V
Test Engineer:	Huang jian ping
Note: For a more detailed features description, please refer to the report TBR-C-202209-0179-22	

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1. Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	Ant1	99.04	0.04	0.08
NVNT	b	2437	Ant1	98.81	0.05	0.08
NVNT	b	2462	Ant1	99.04	0.04	0.08
NVNT	g	2412	Ant1	94.09	0.26	0.48
NVNT	g	2437	Ant1	95.81	0.19	0.49
NVNT	g	2462	Ant1	92.38	0.34	0.49
NVNT	n(HT20)	2412	Ant1	94.06	0.27	0.49
NVNT	n(HT20)	2437	Ant1	93.66	0.28	0.52
NVNT	n(HT20)	2462	Ant1	98.46	0.07	0.52
NVNT	n(HT40)	2422	Ant1	95.96	0.18	1.05
NVNT	n(HT40)	2437	Ant1	95	0.22	1.05
NVNT	n(HT40)	2452	Ant1	87.96	0.56	1.05

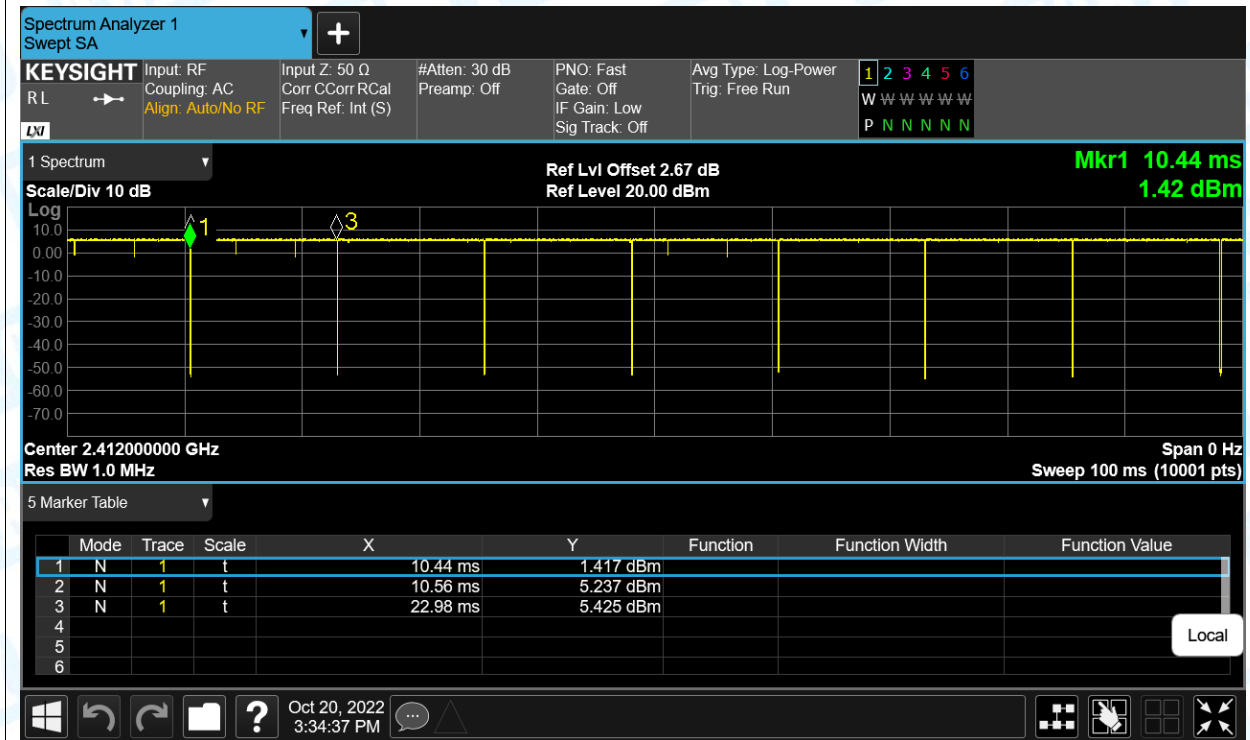
Note: Duty Cycle(%)=ON(ms)/(ON(ms)+OFF(ms))

ON(ms)=Maker3-Maker2

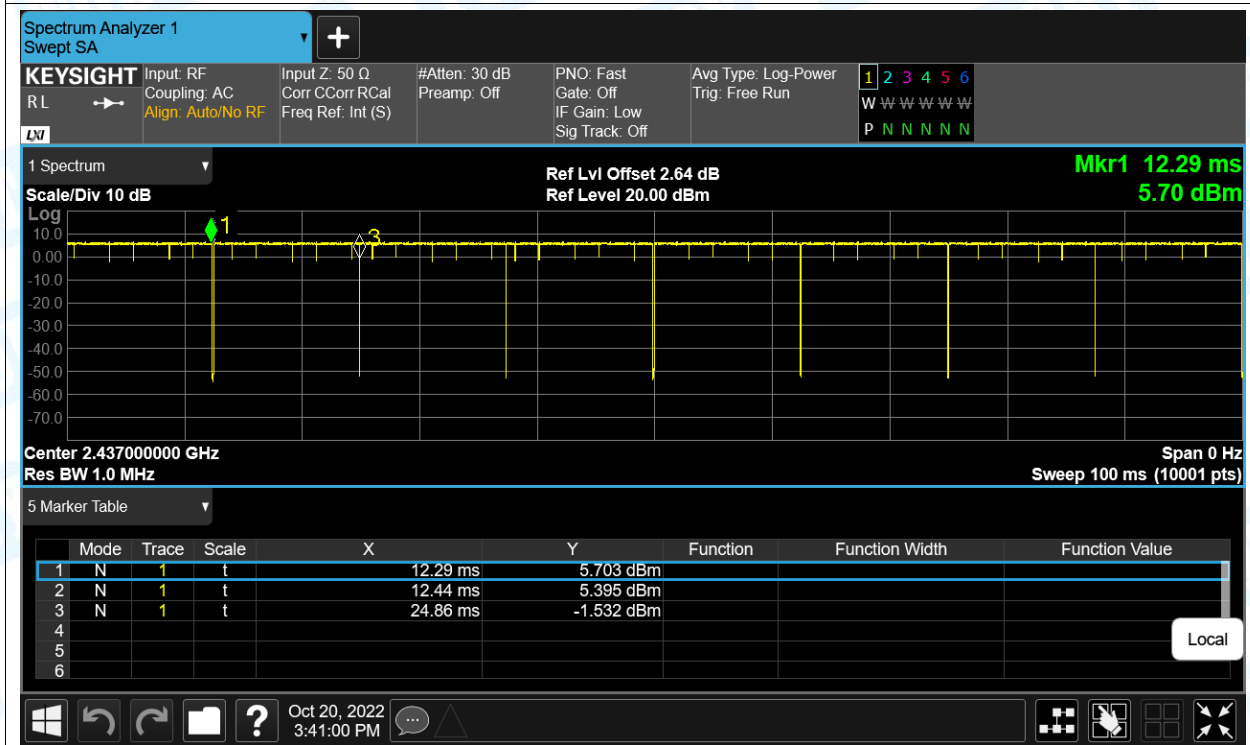
(ON(ms)+OFF(ms))=Maker3-Maker1

Test Graphs

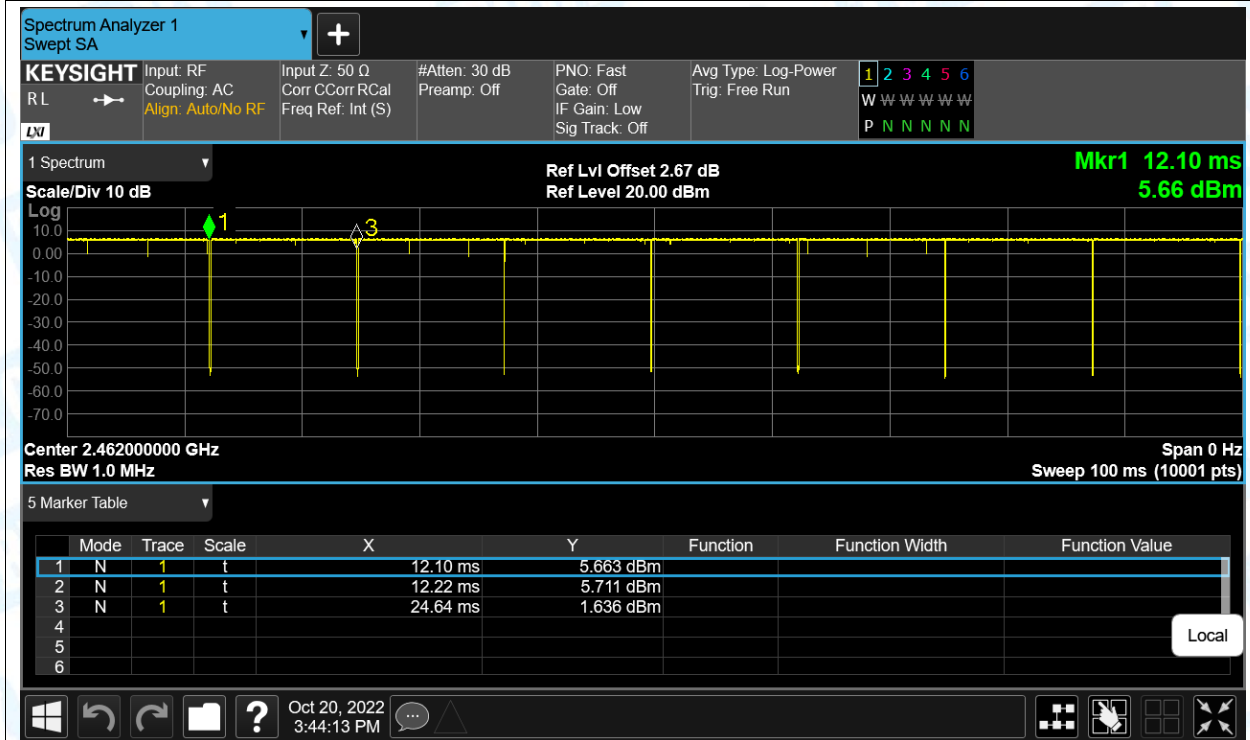
Duty Cycle NVNT b 2412MHz Ant1



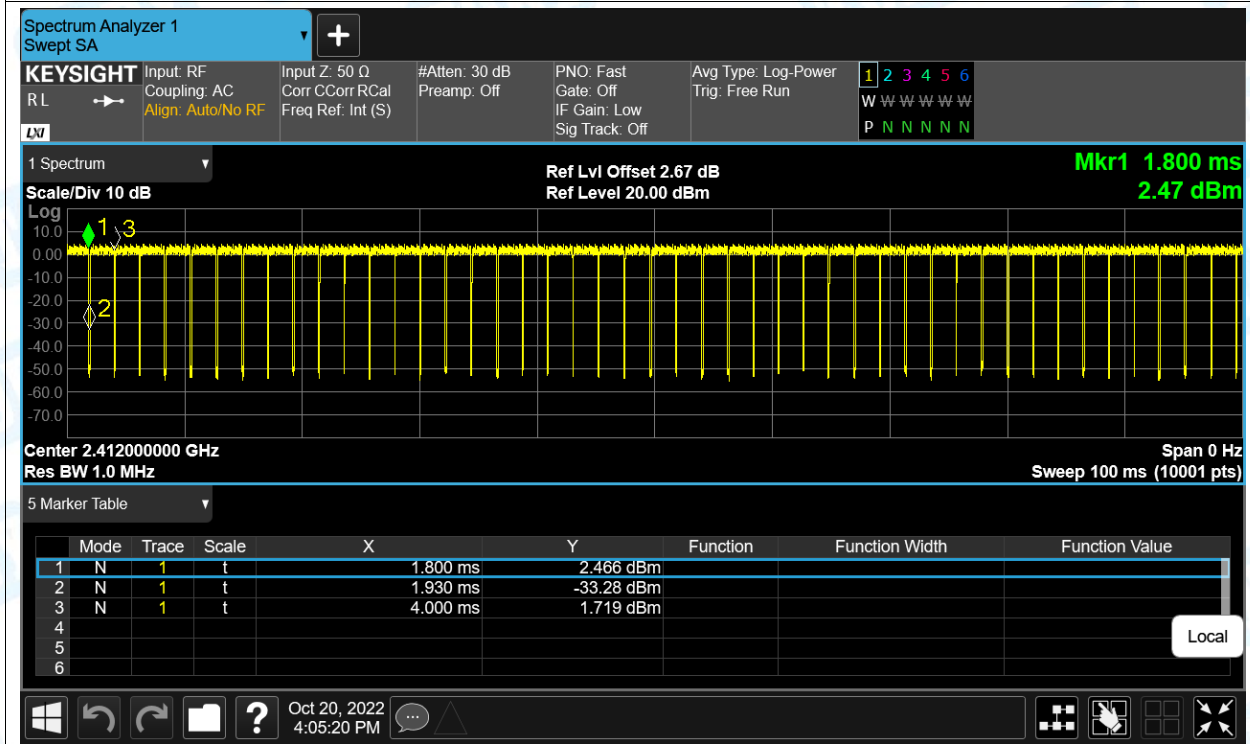
Duty Cycle NVNT b 2437MHz Ant1



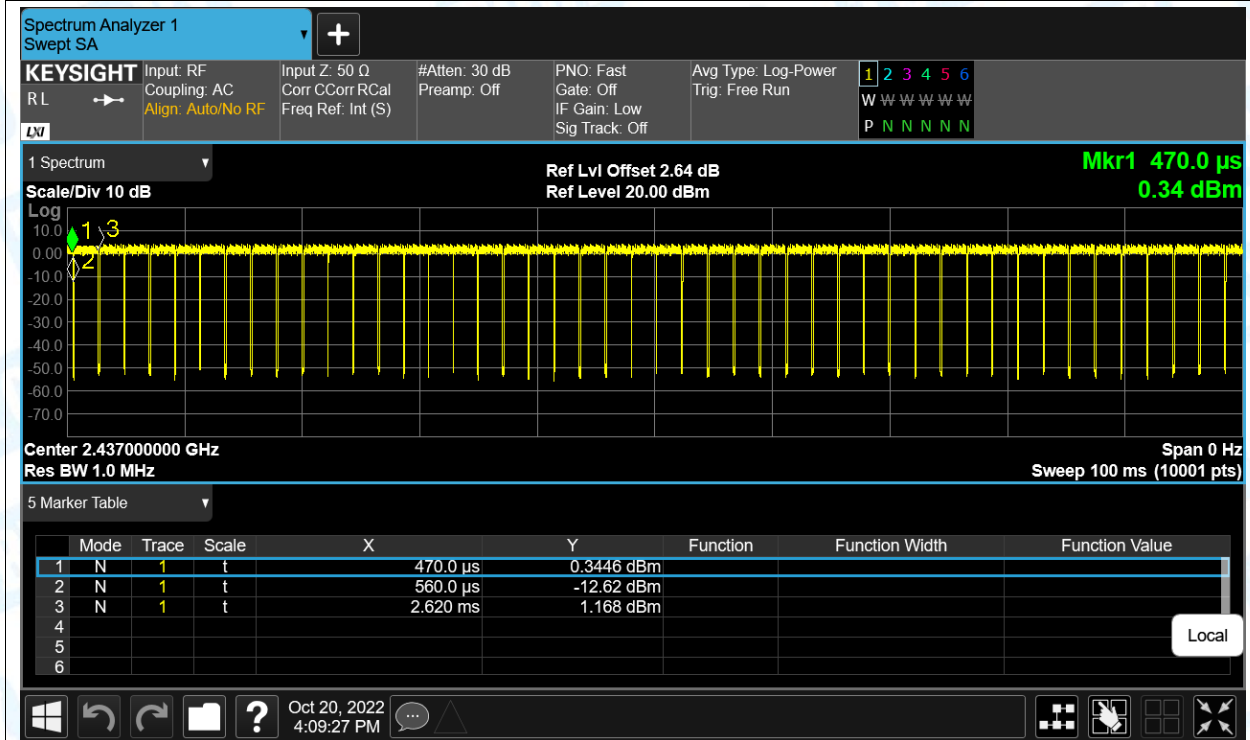
Duty Cycle NVNT b 2462MHz Ant1



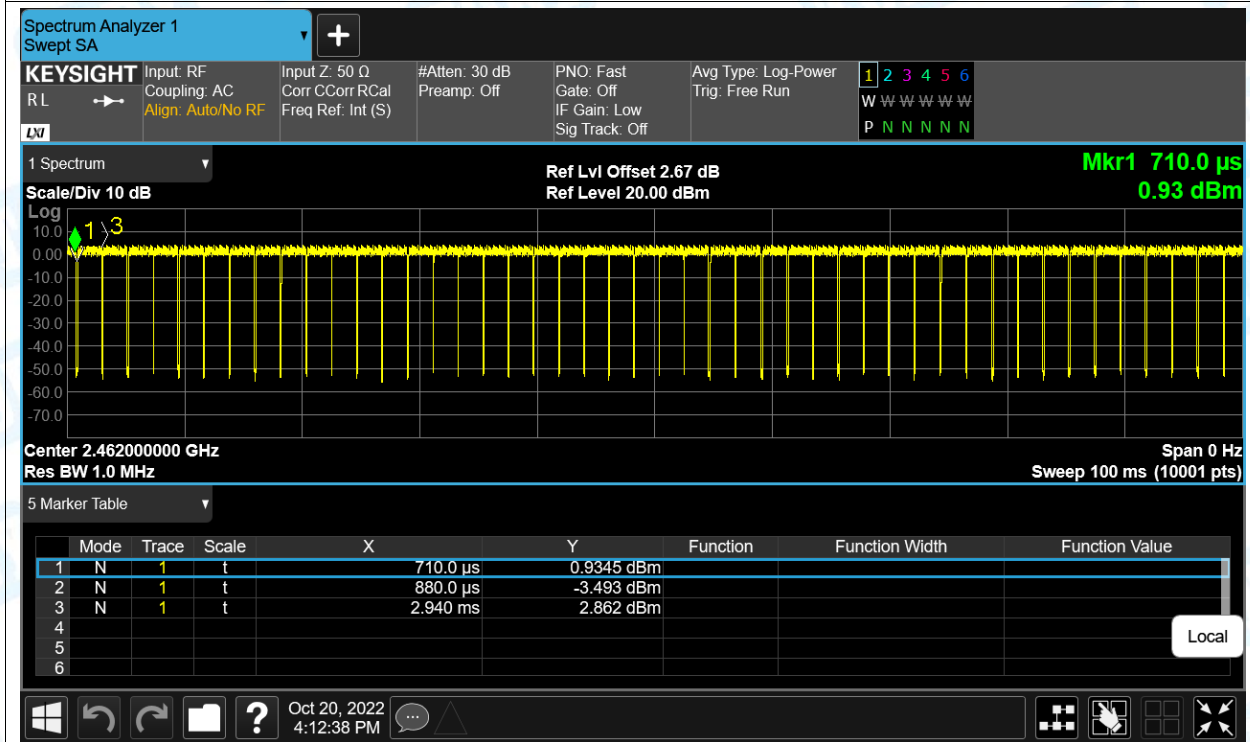
Duty Cycle NVNT g 2412MHz Ant1



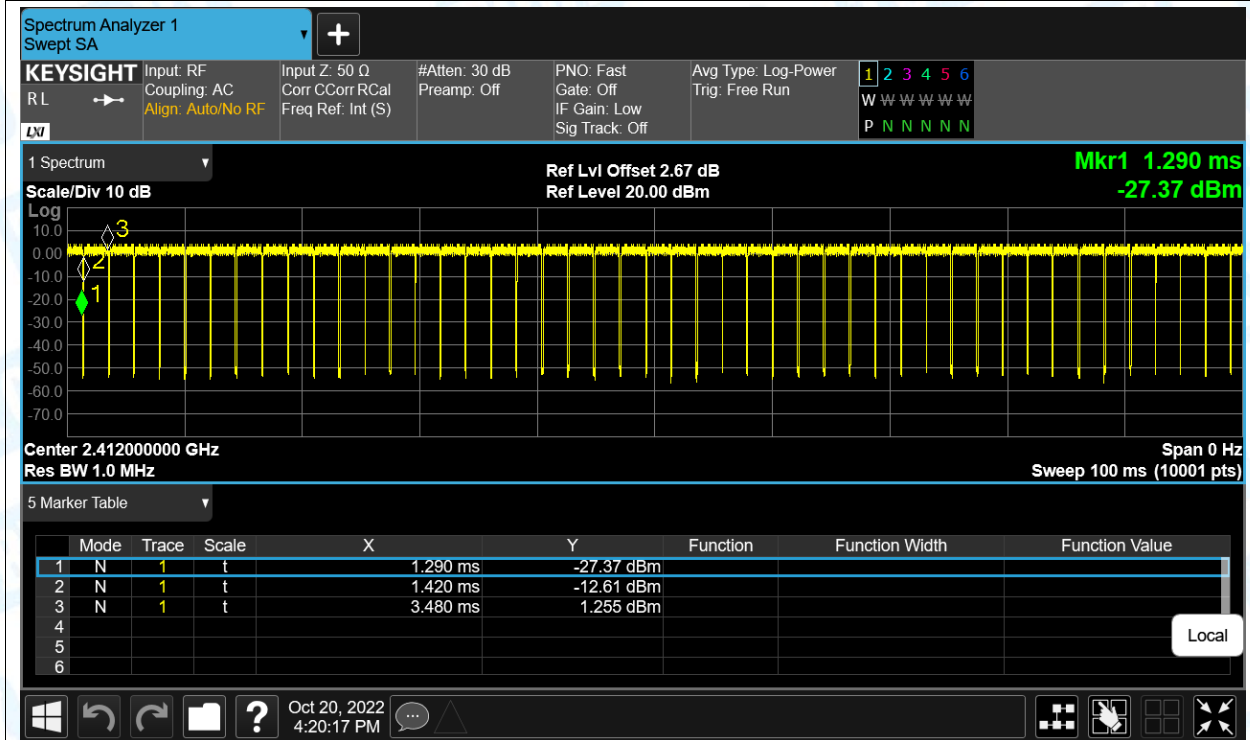
Duty Cycle NVNT g 2437MHz Ant1



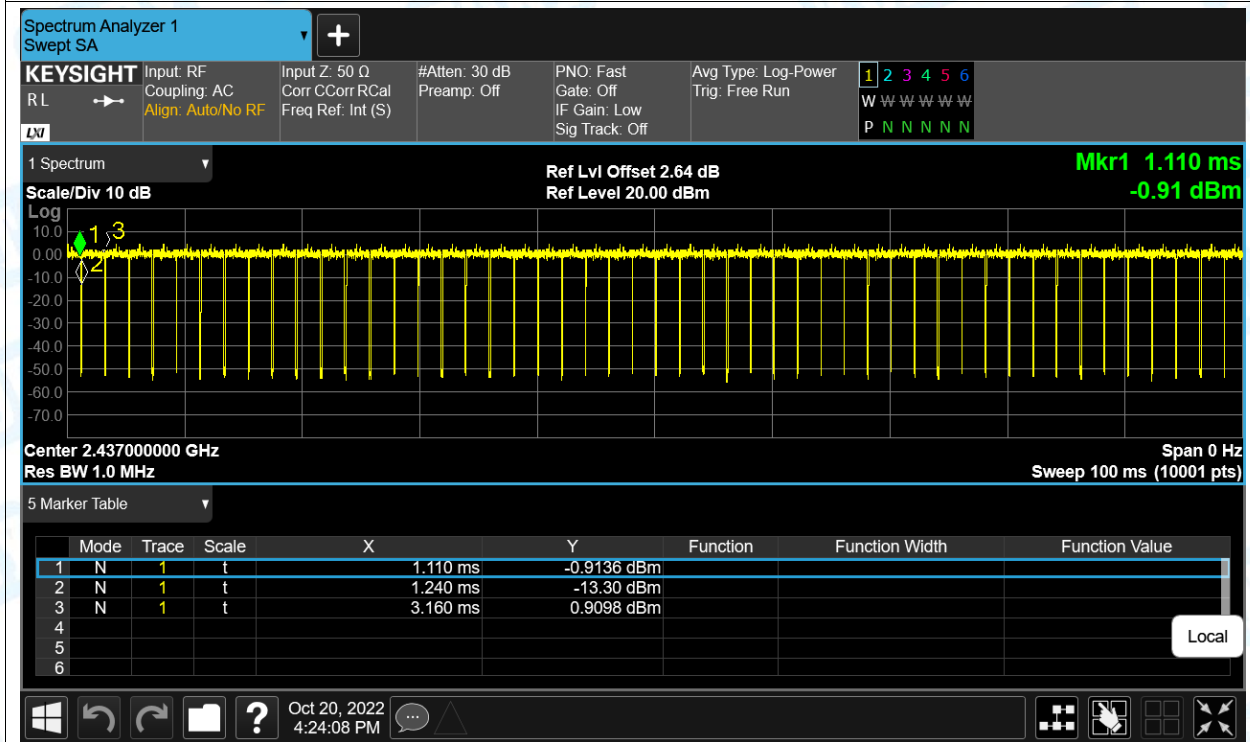
Duty Cycle NVNT g 2462MHz Ant1

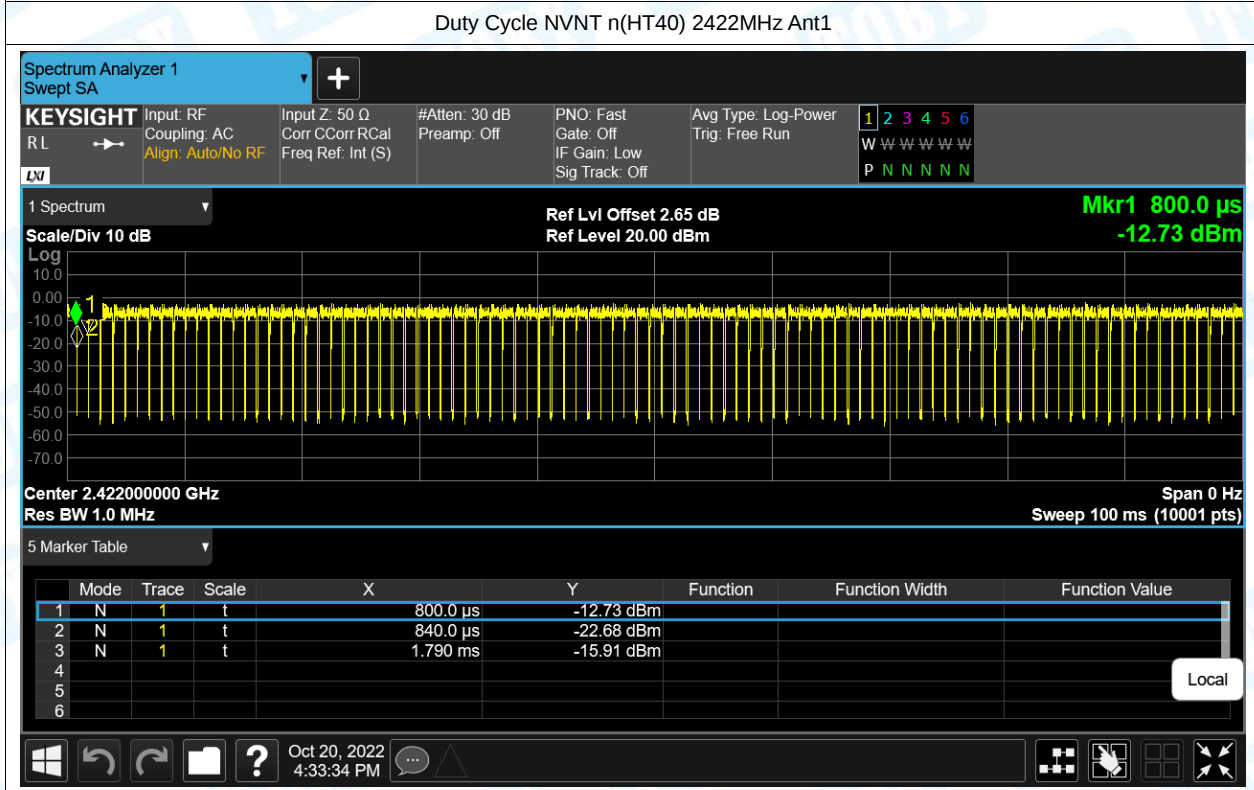
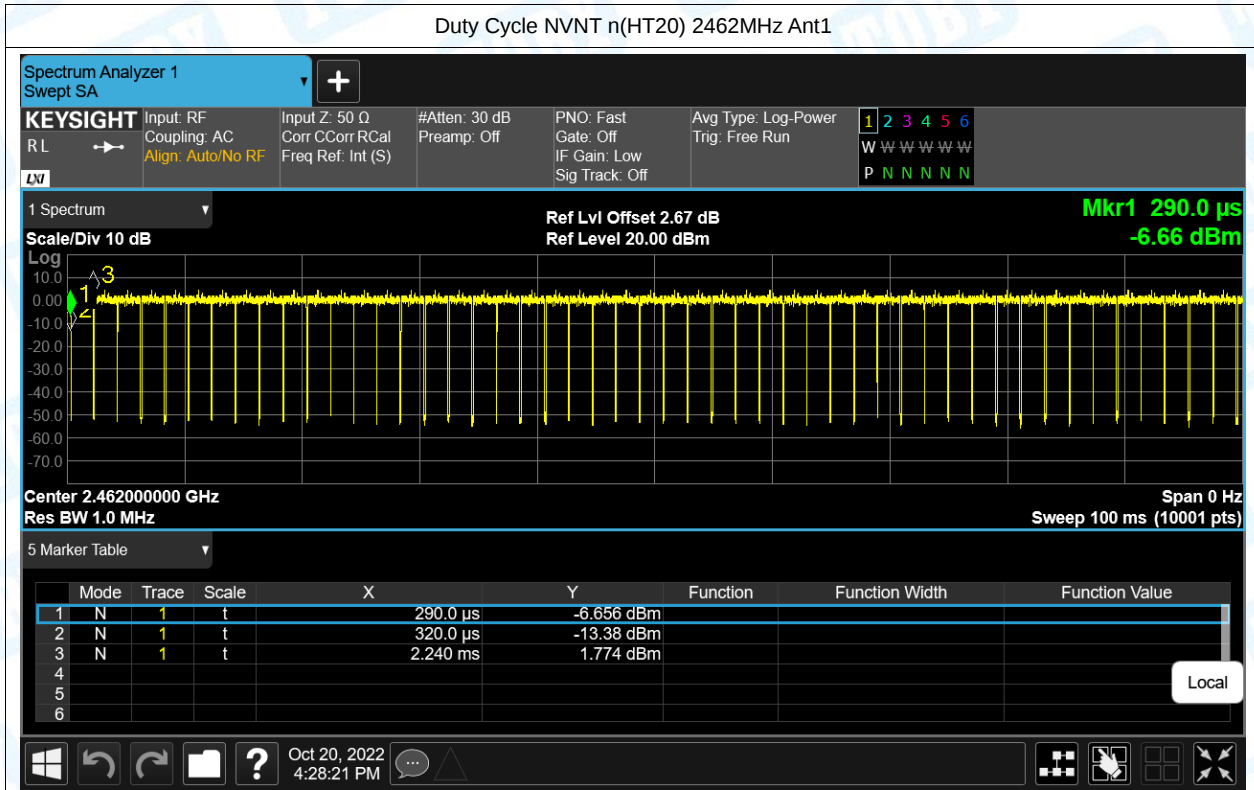


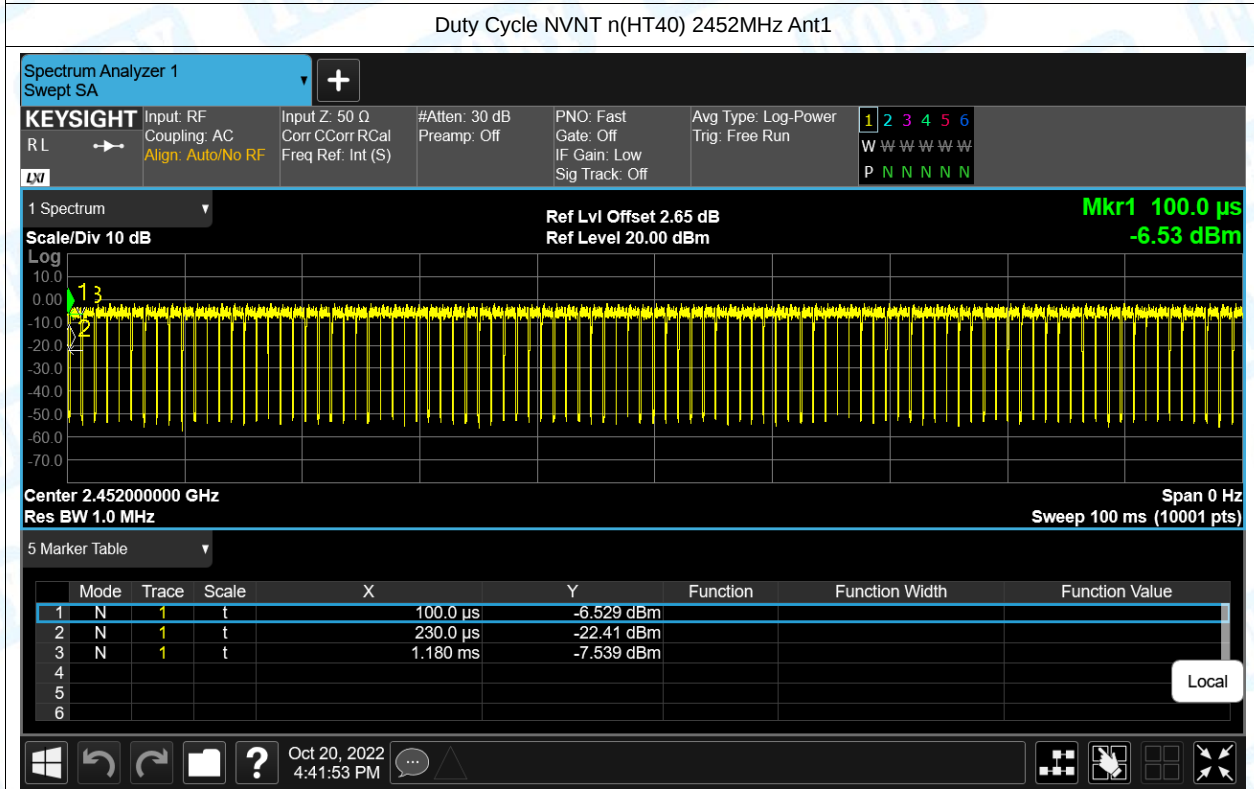
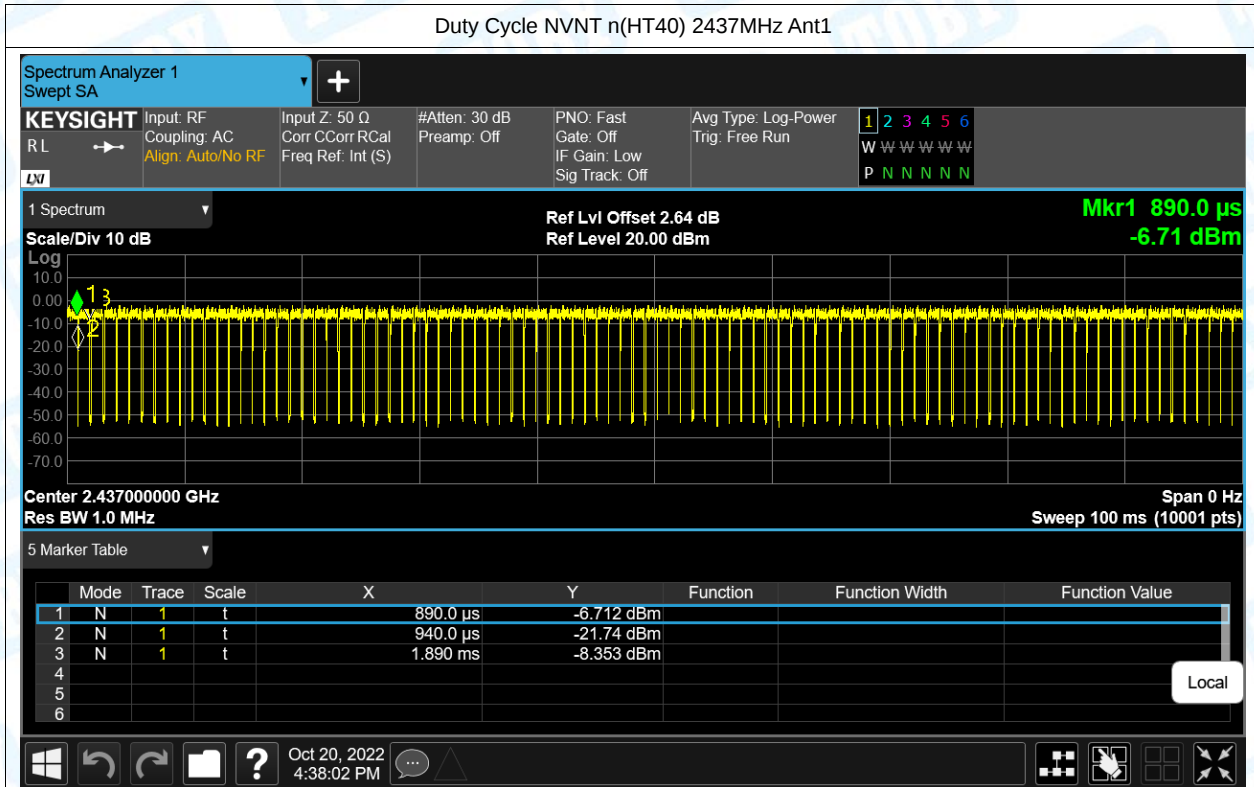
Duty Cycle NVNT n(HT20) 2412MHz Ant1



Duty Cycle NVNT n(HT20) 2437MHz Ant1







2. Maximum Conducted Output Power

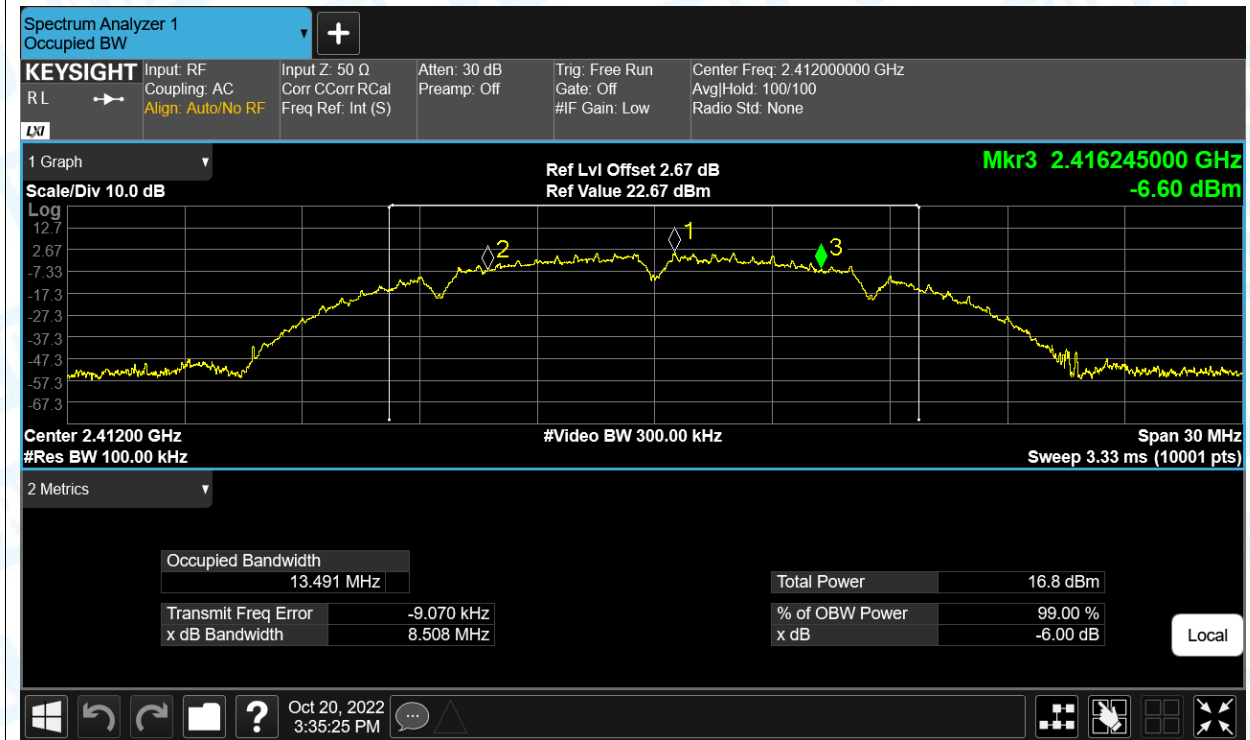
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	11.95	30	Pass
NVNT	b	2437	Ant1	12.15	30	Pass
NVNT	b	2462	Ant1	12.47	30	Pass
NVNT	g	2412	Ant1	13.92	30	Pass
NVNT	g	2437	Ant1	13.61	30	Pass
NVNT	g	2462	Ant1	13.67	30	Pass
NVNT	n(HT20)	2412	Ant1	13.45	30	Pass
NVNT	n(HT20)	2437	Ant1	12.62	30	Pass
NVNT	n(HT20)	2462	Ant1	12.71	30	Pass
NVNT	n(HT40)	2422	Ant1	12.42	30	Pass
NVNT	n(HT40)	2437	Ant1	12.89	30	Pass
NVNT	n(HT40)	2452	Ant1	12.91	30	Pass

3. -6dB Bandwidth

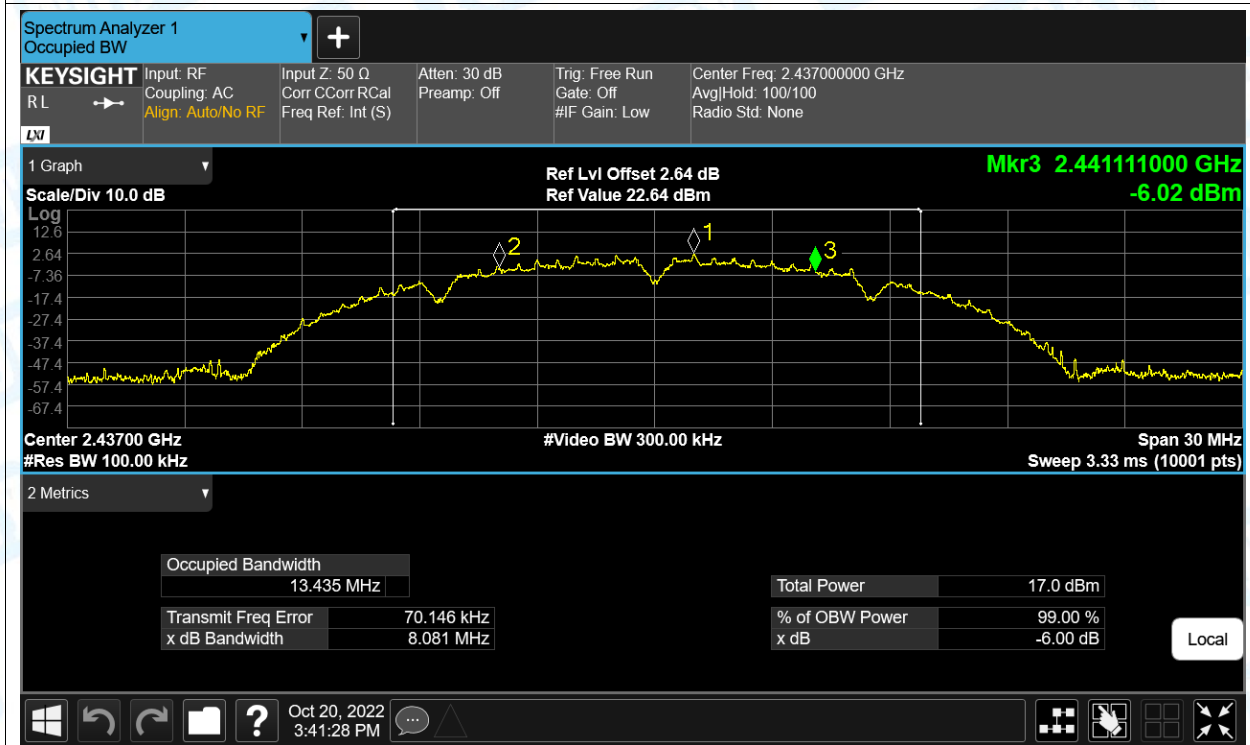
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	8.51	0.5	Pass
NVNT	b	2437	Ant1	8.08	0.5	Pass
NVNT	b	2462	Ant1	8.52	0.5	Pass
NVNT	g	2412	Ant1	16.35	0.5	Pass
NVNT	g	2437	Ant1	16.35	0.5	Pass
NVNT	g	2462	Ant1	16.37	0.5	Pass
NVNT	n(HT20)	2412	Ant1	16.32	0.5	Pass
NVNT	n(HT20)	2437	Ant1	17.57	0.5	Pass
NVNT	n(HT20)	2462	Ant1	17.53	0.5	Pass
NVNT	n(HT40)	2422	Ant1	36.27	0.5	Pass
NVNT	n(HT40)	2437	Ant1	35.81	0.5	Pass
NVNT	n(HT40)	2452	Ant1	36.03	0.5	Pass

Test Graphs

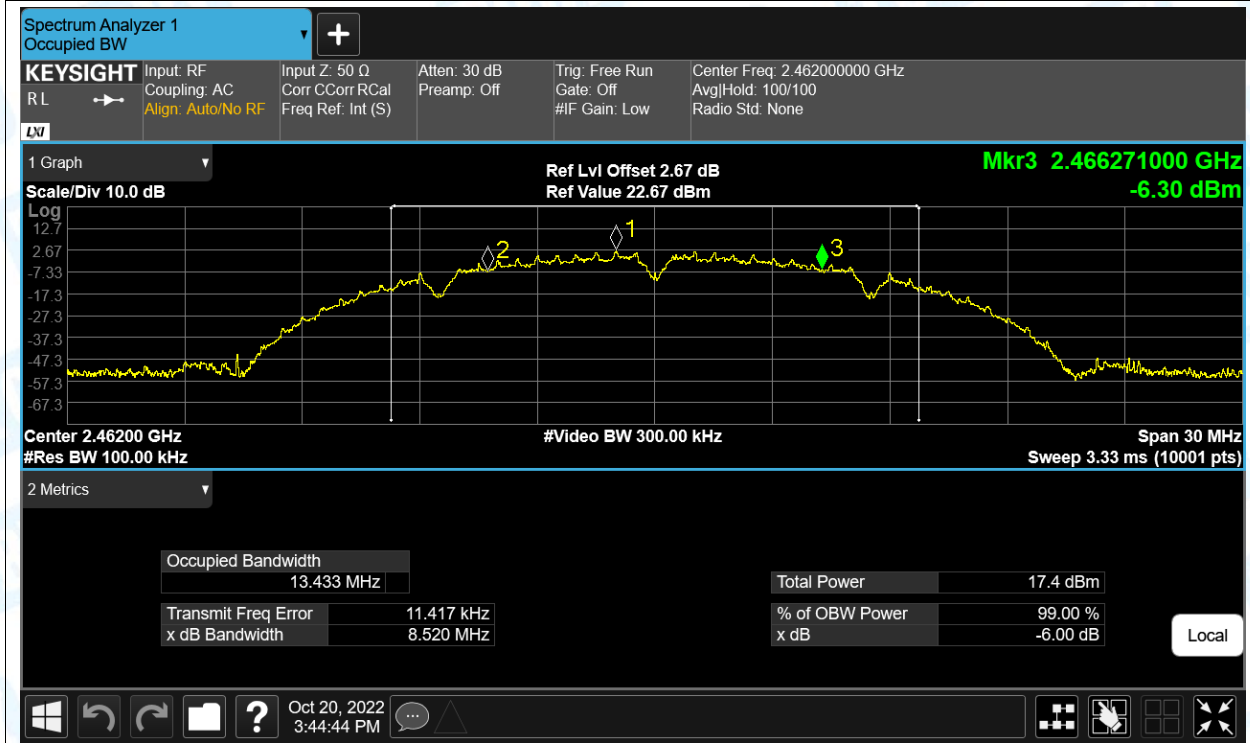
-6dB Bandwidth NVNT b 2412MHz Ant1



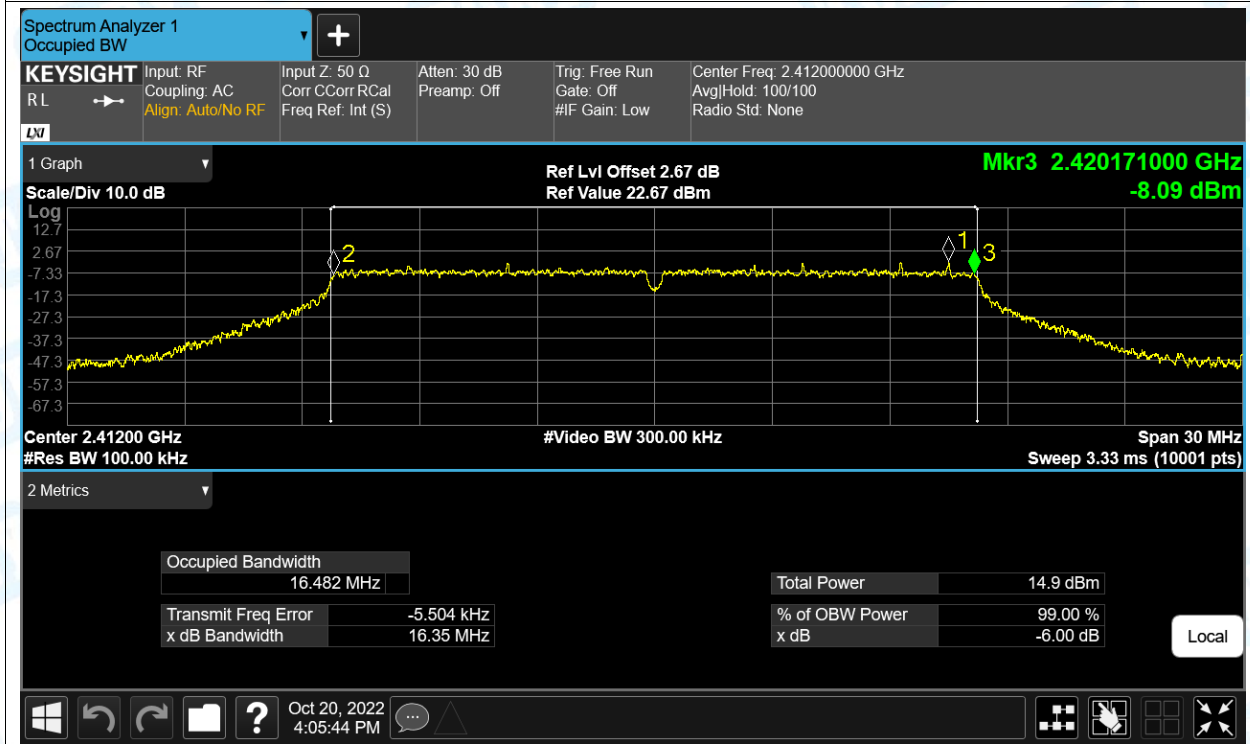
-6dB Bandwidth NVNT b 2437MHz Ant1



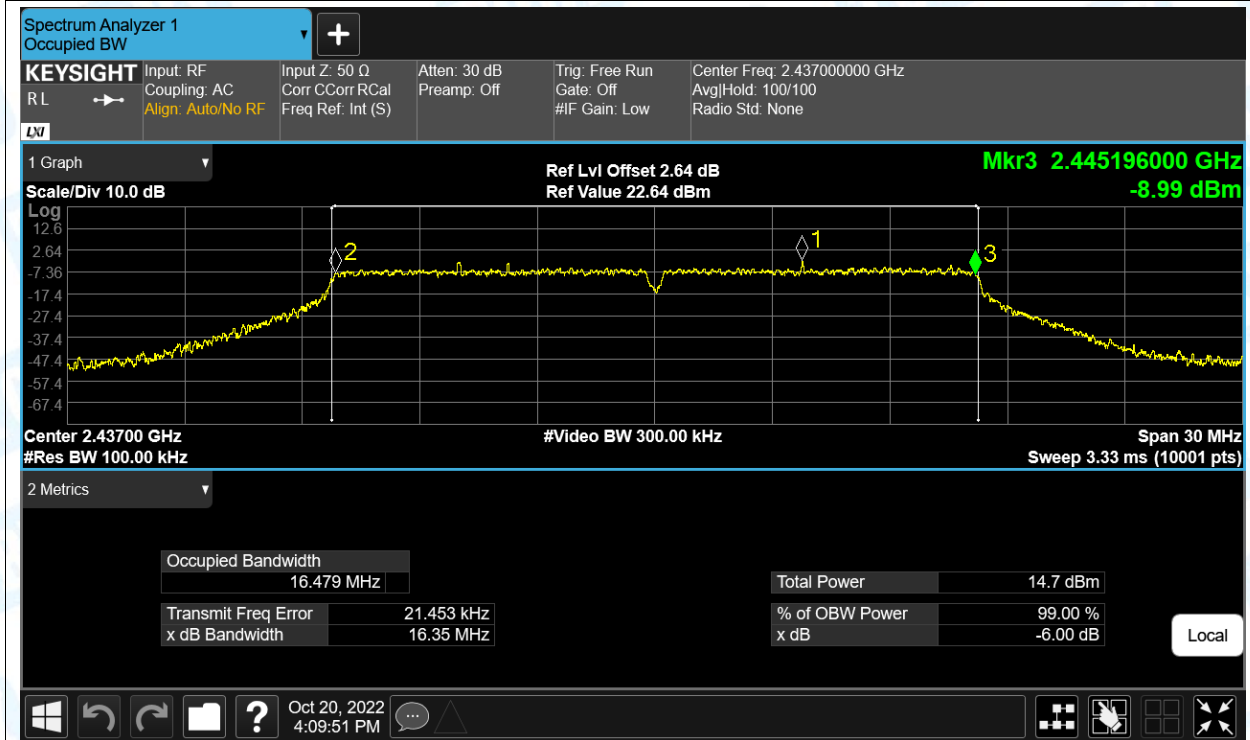
-6dB Bandwidth NVNT b 2462MHz Ant1



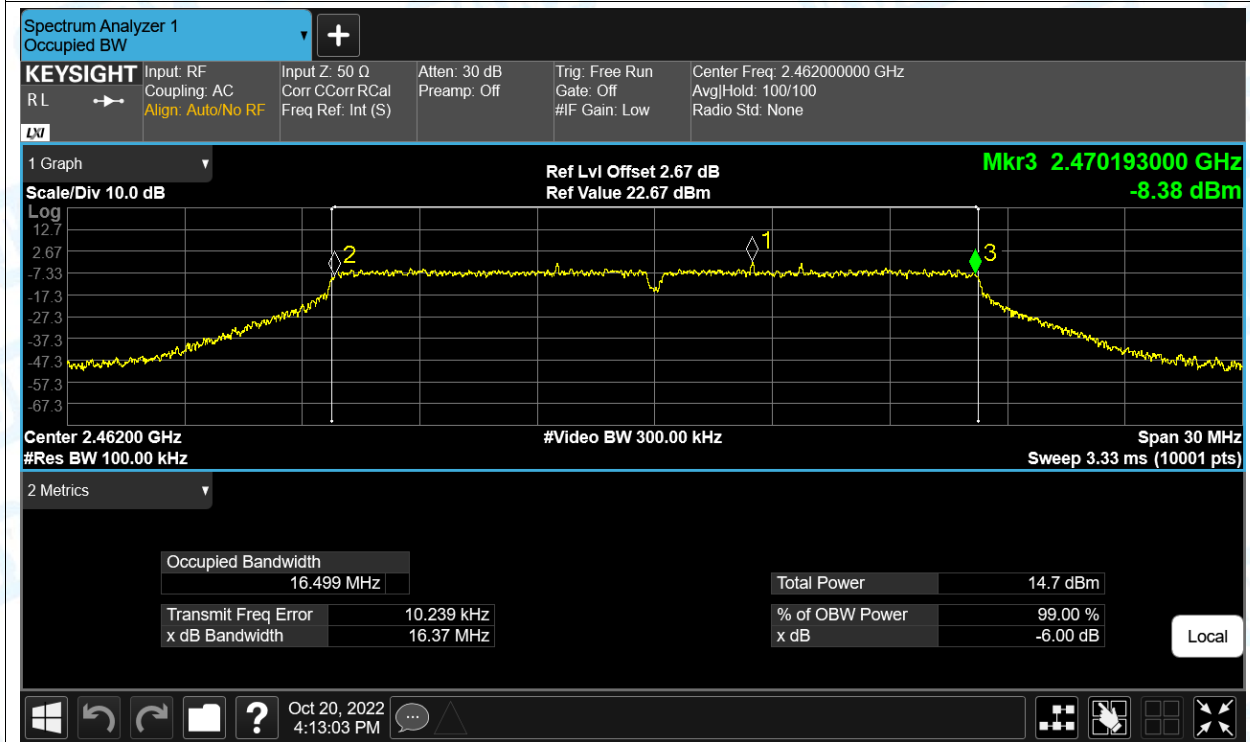
-6dB Bandwidth NVNT g 2412MHz Ant1



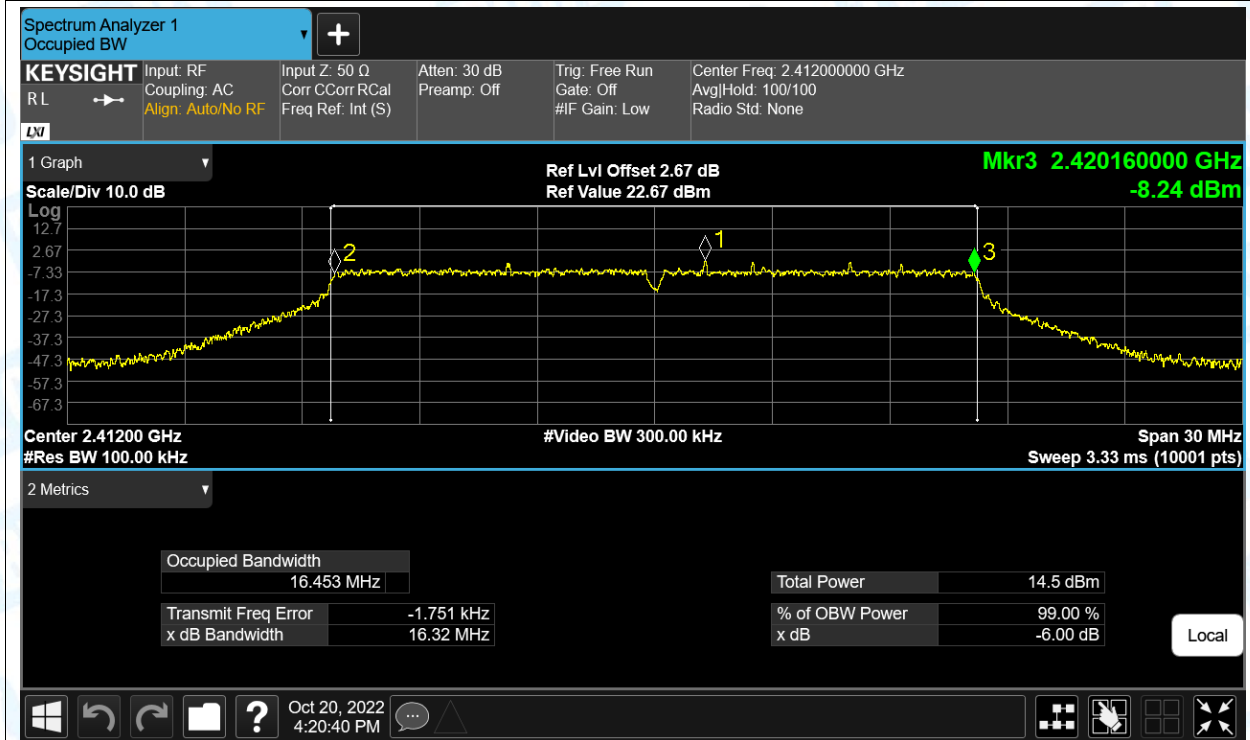
-6dB Bandwidth NVNT g 2437MHz Ant1



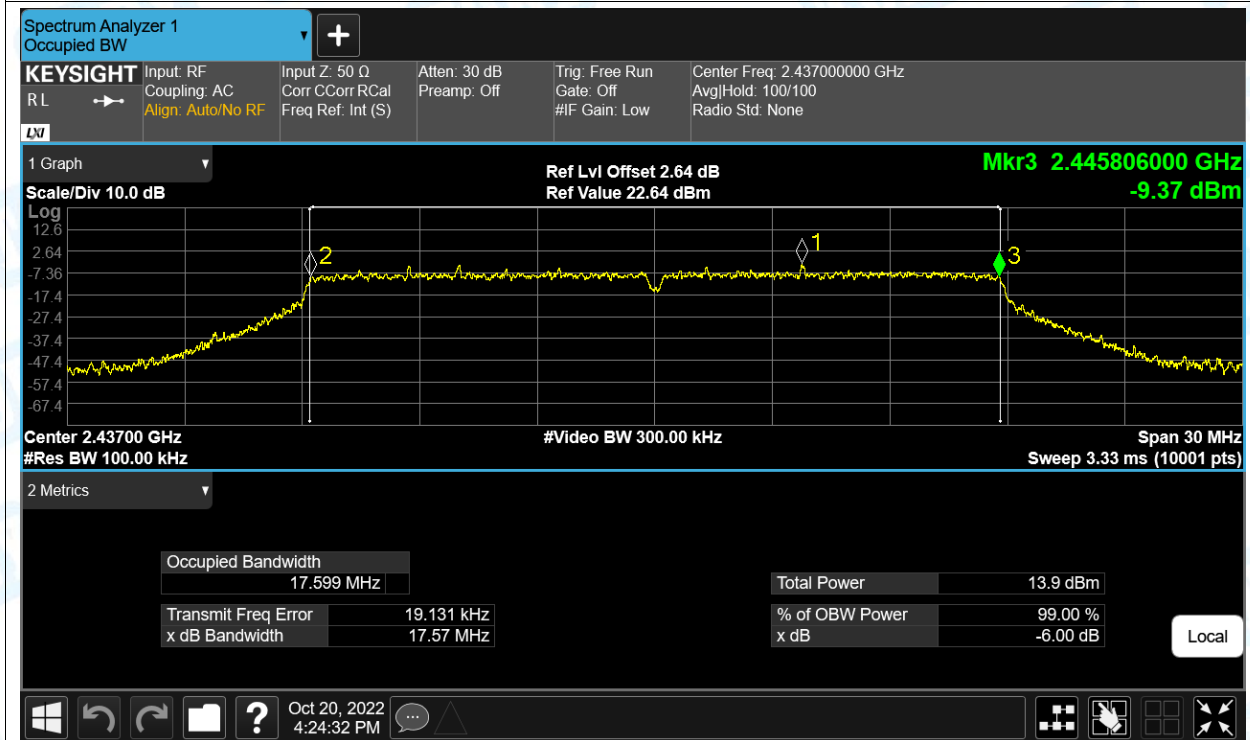
-6dB Bandwidth NVNT g 2462MHz Ant1



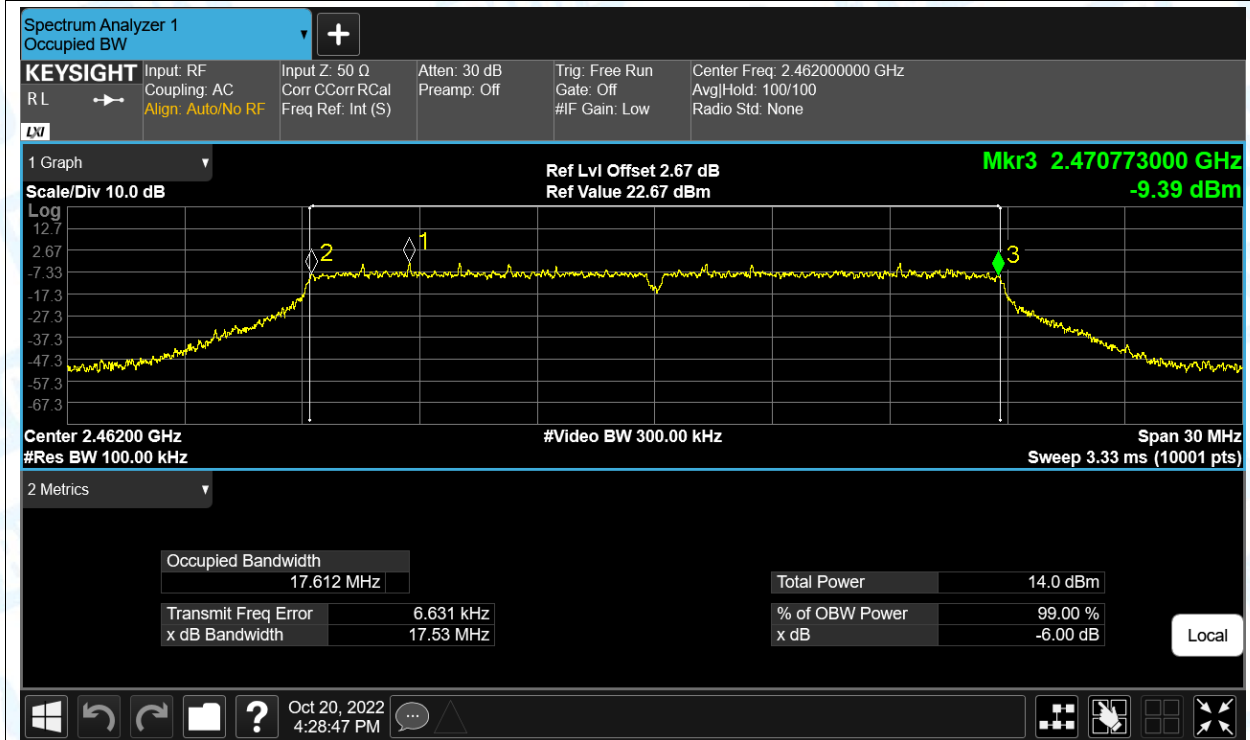
-6dB Bandwidth NVNT n(HT20) 2412MHz Ant1



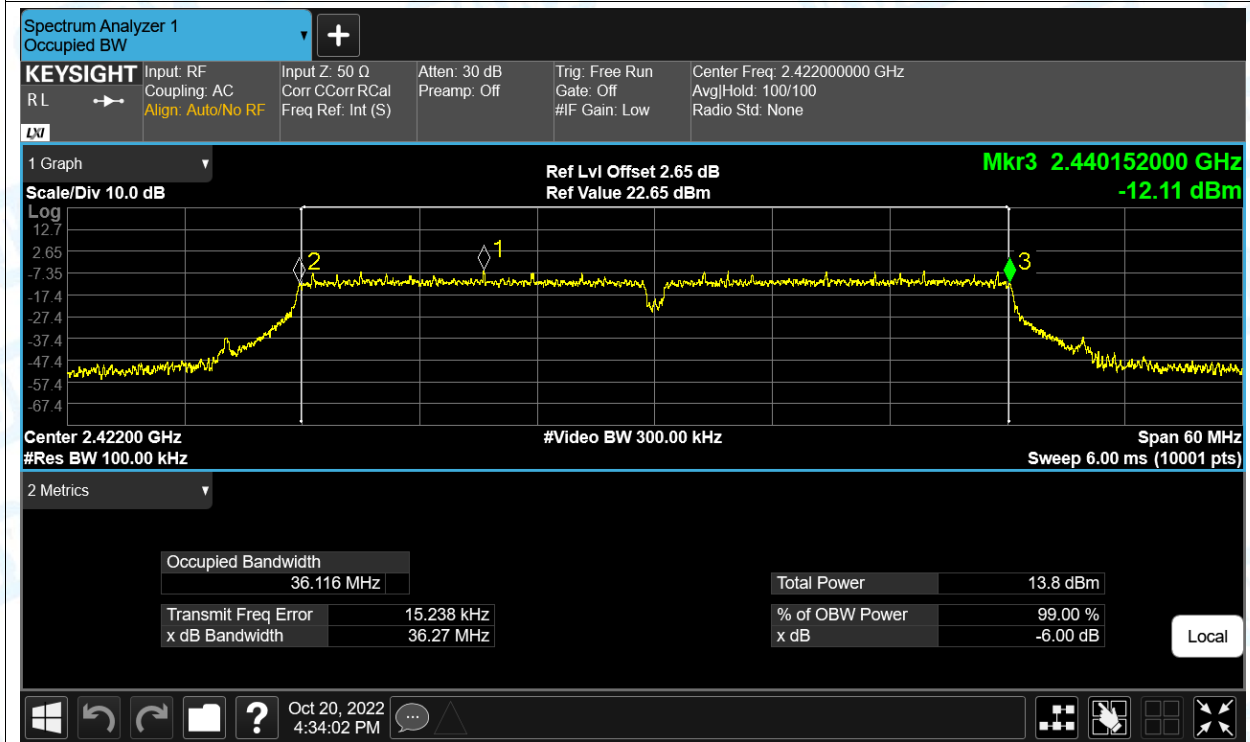
-6dB Bandwidth NVNT n(HT20) 2437MHz Ant1



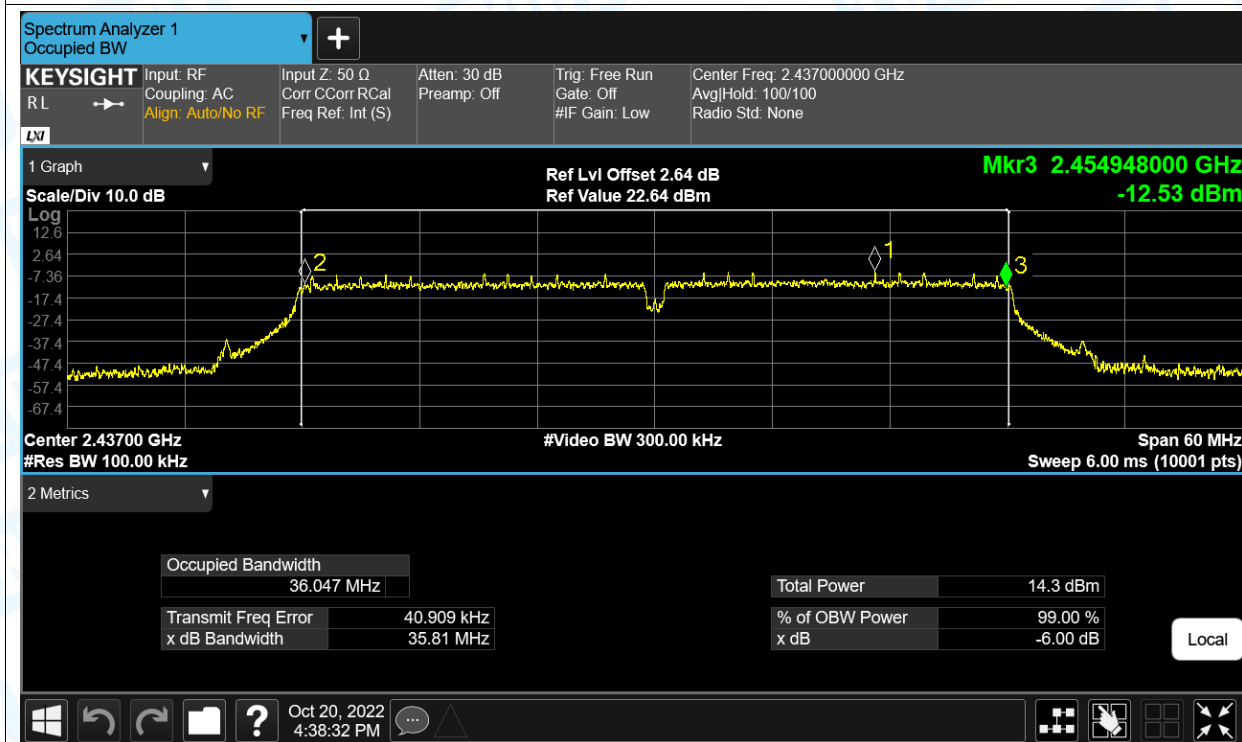
-6dB Bandwidth NVNT n(HT20) 2462MHz Ant1



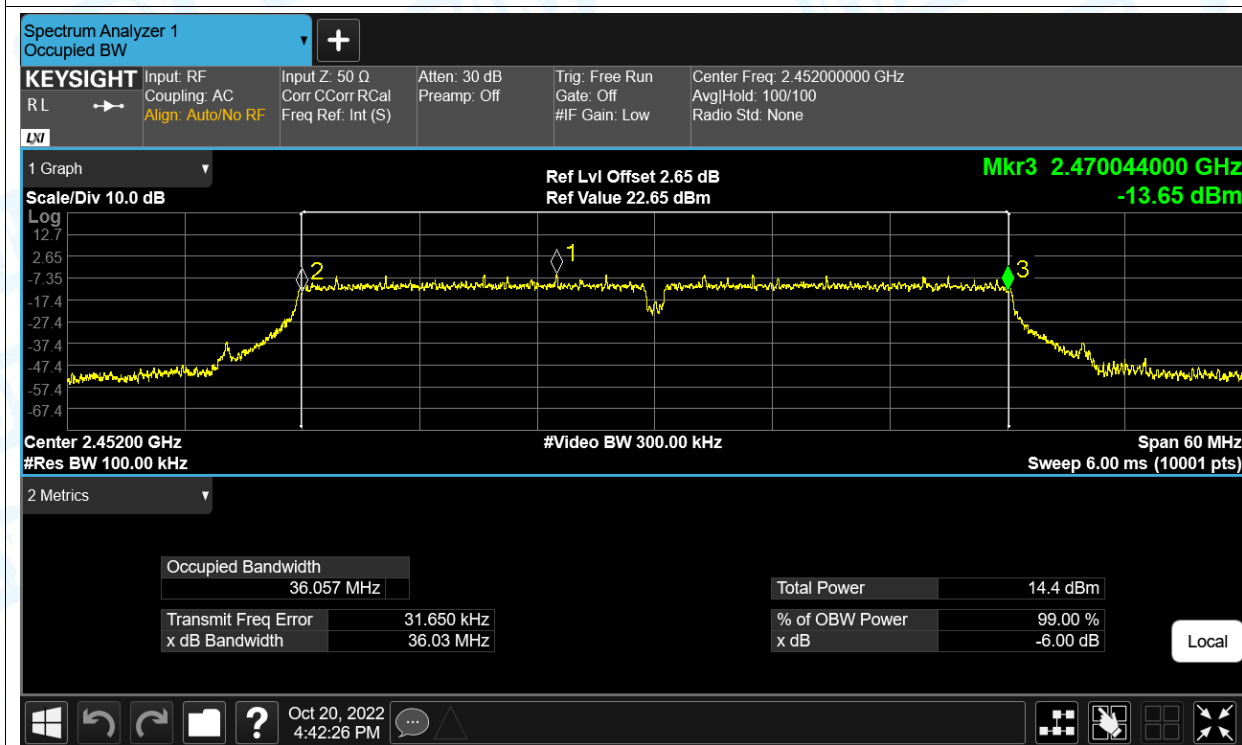
-6dB Bandwidth NVNT n(HT40) 2422MHz Ant1



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



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

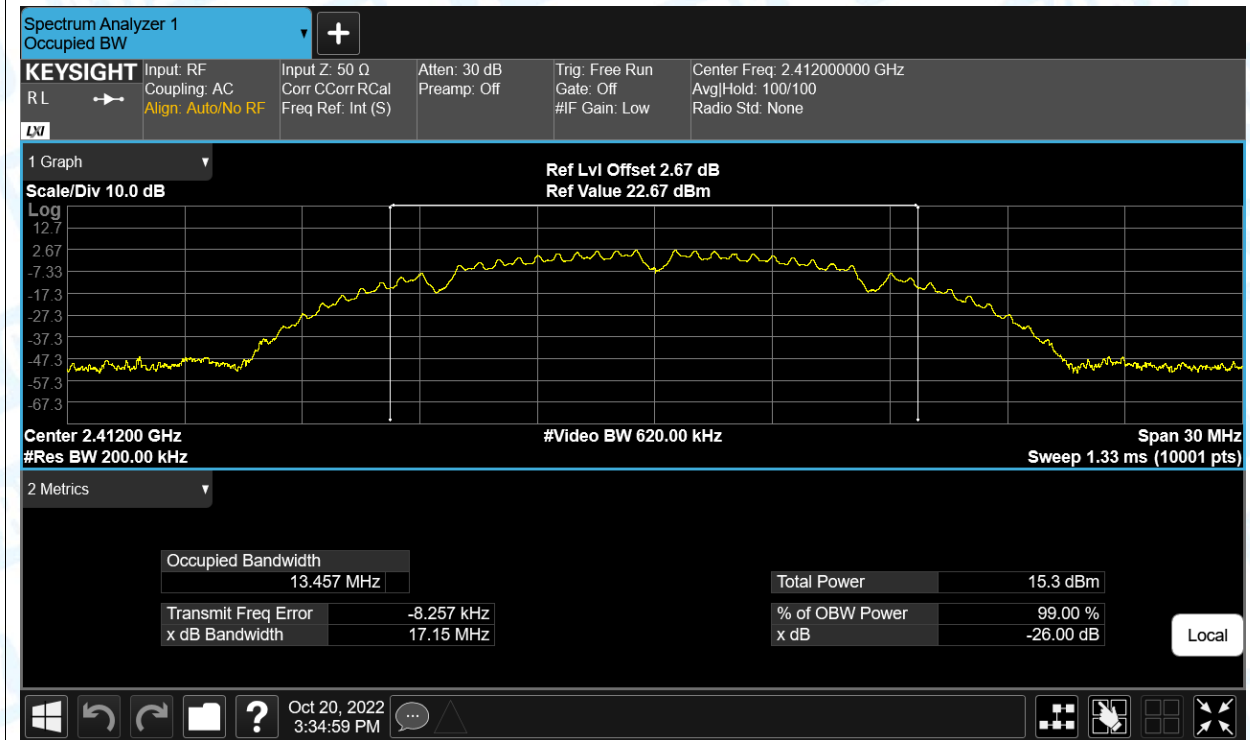


4. Occupied Channel Bandwidth

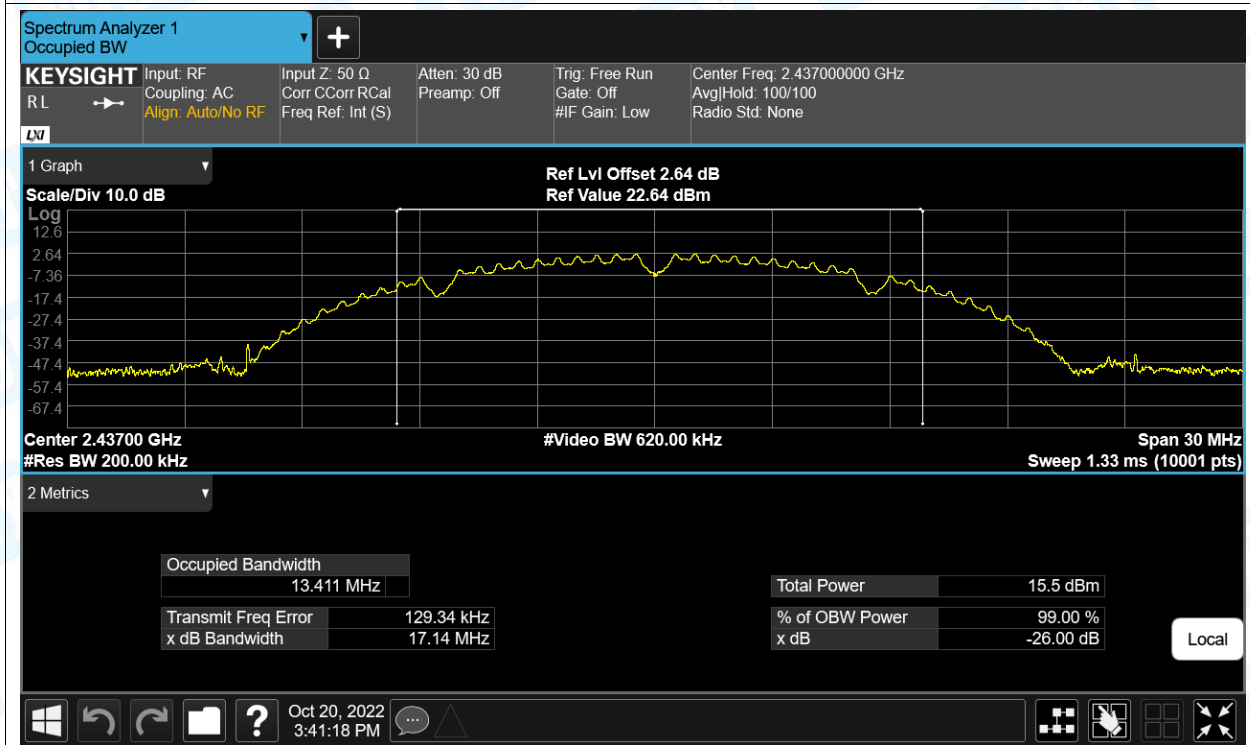
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	b	2412	Ant1	13.457
NVNT	b	2437	Ant1	13.411
NVNT	b	2462	Ant1	13.475
NVNT	g	2412	Ant1	16.619
NVNT	g	2437	Ant1	16.668
NVNT	g	2462	Ant1	16.687
NVNT	n(HT20)	2412	Ant1	16.591
NVNT	n(HT20)	2437	Ant1	17.628
NVNT	n(HT20)	2462	Ant1	17.709
NVNT	n(HT40)	2422	Ant1	36.302
NVNT	n(HT40)	2437	Ant1	36.261
NVNT	n(HT40)	2452	Ant1	36.214

Test Graphs

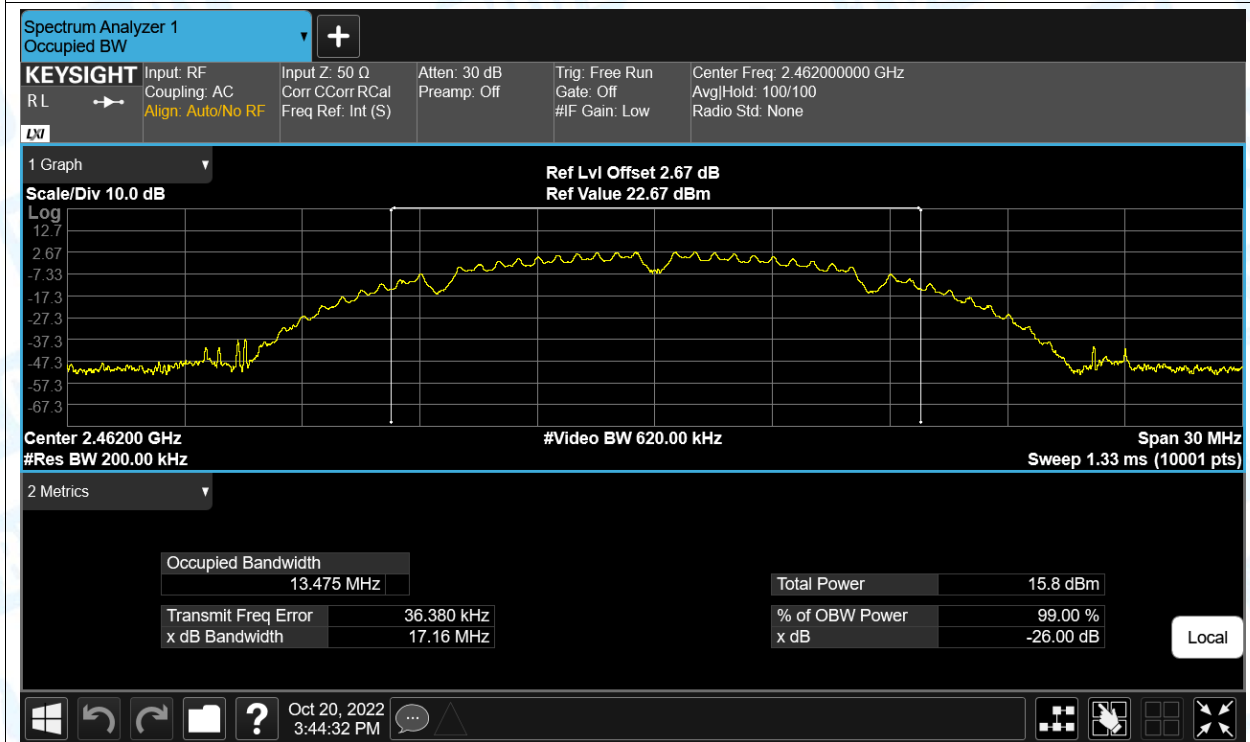
OBW NVNT b 2412MHz Ant1



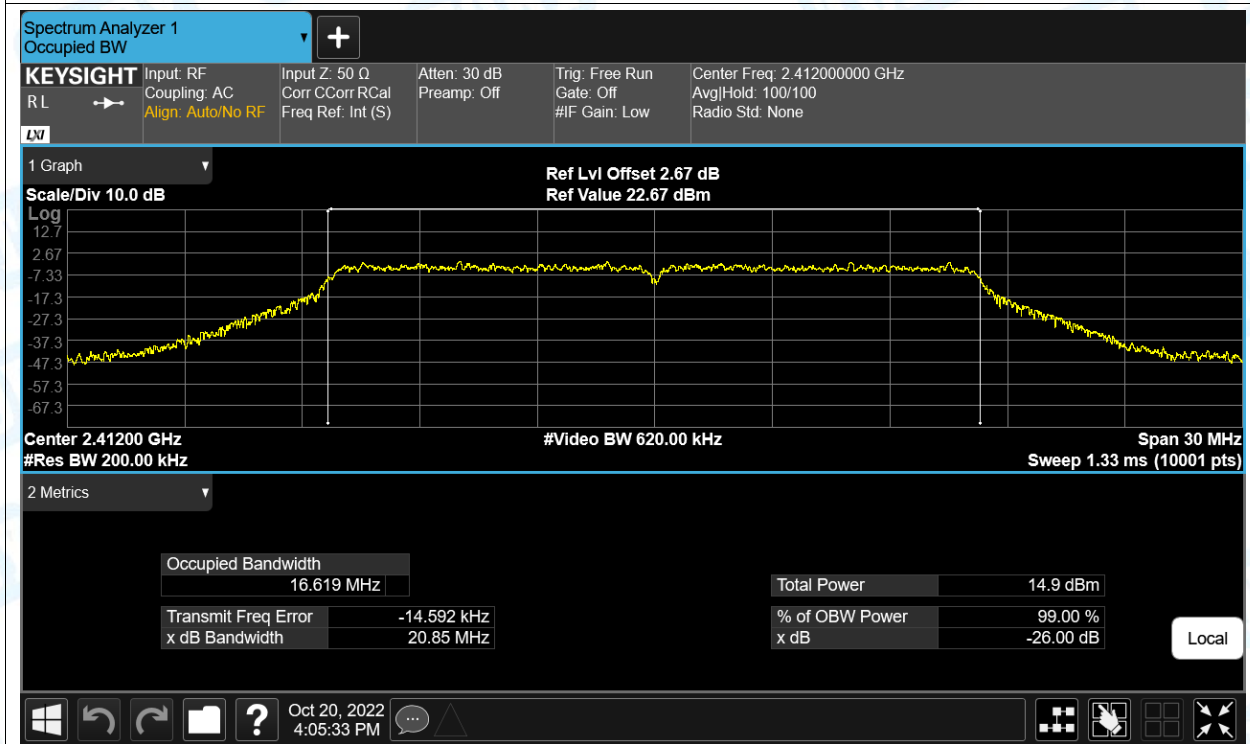
OBW NVNT b 2437MHz Ant1



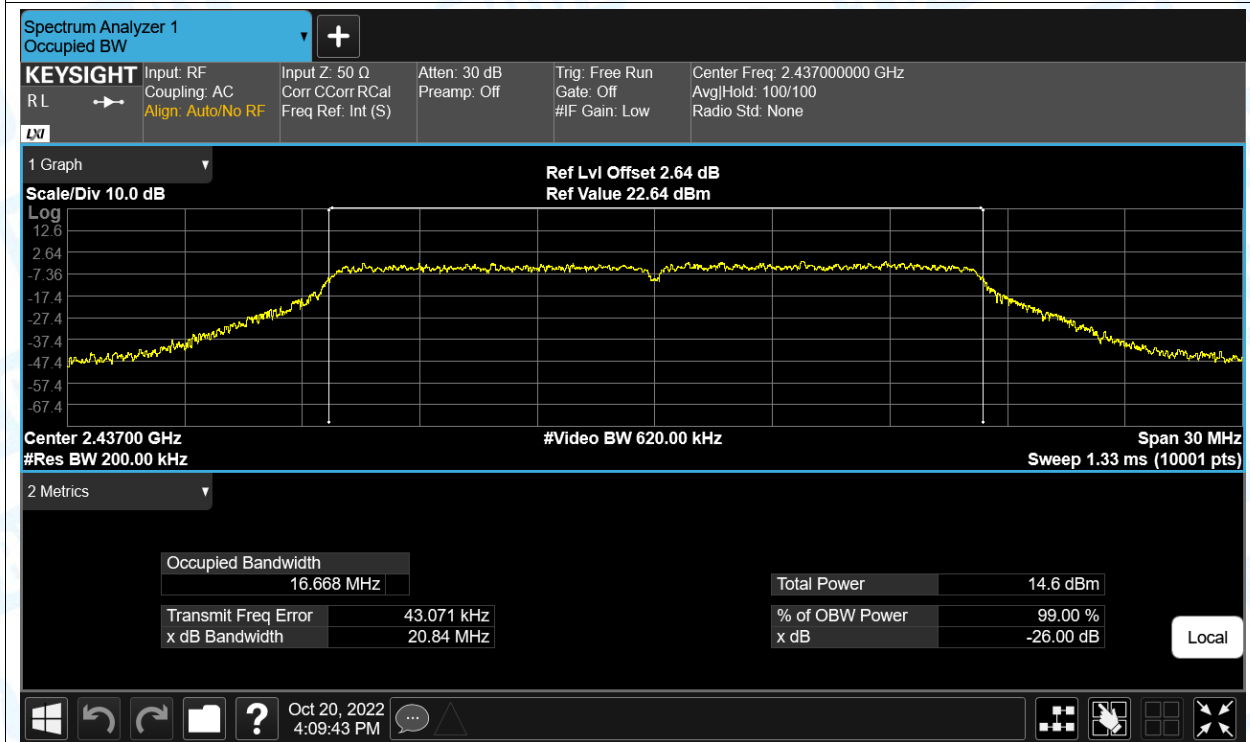
OBW NVNT b 2462MHz Ant1



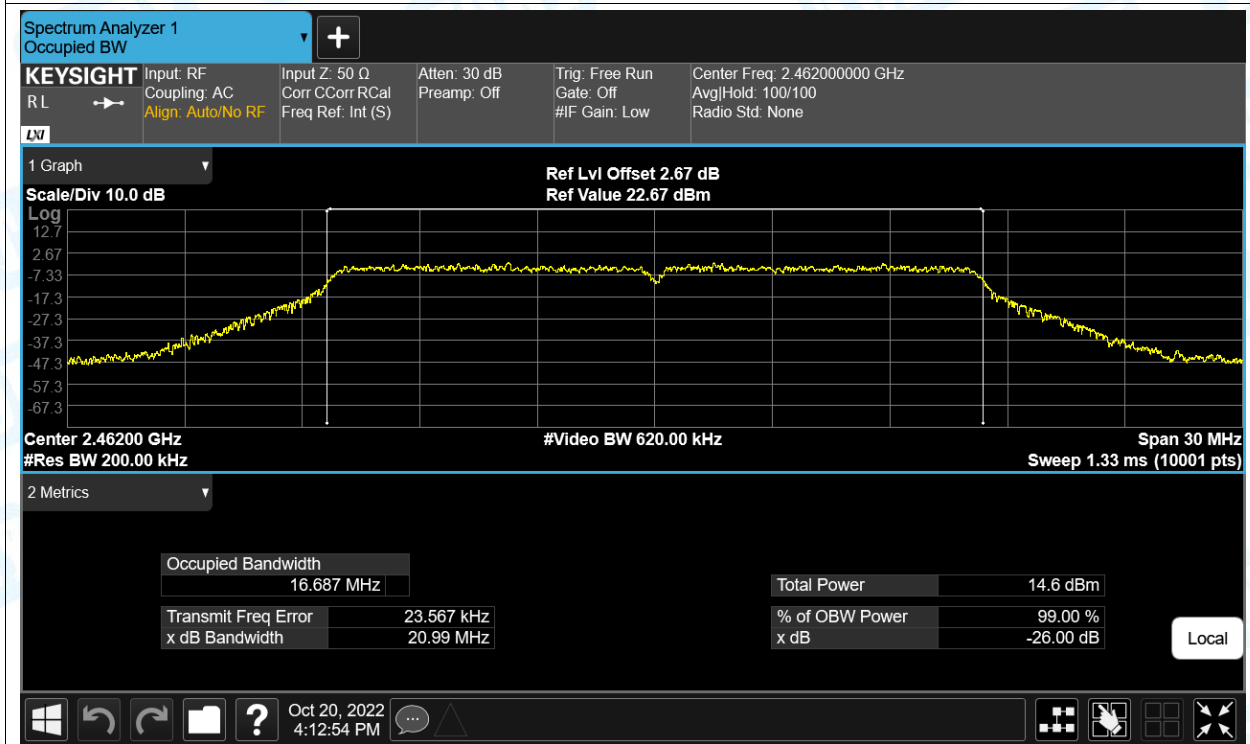
OBW NVNT g 2412MHz Ant1



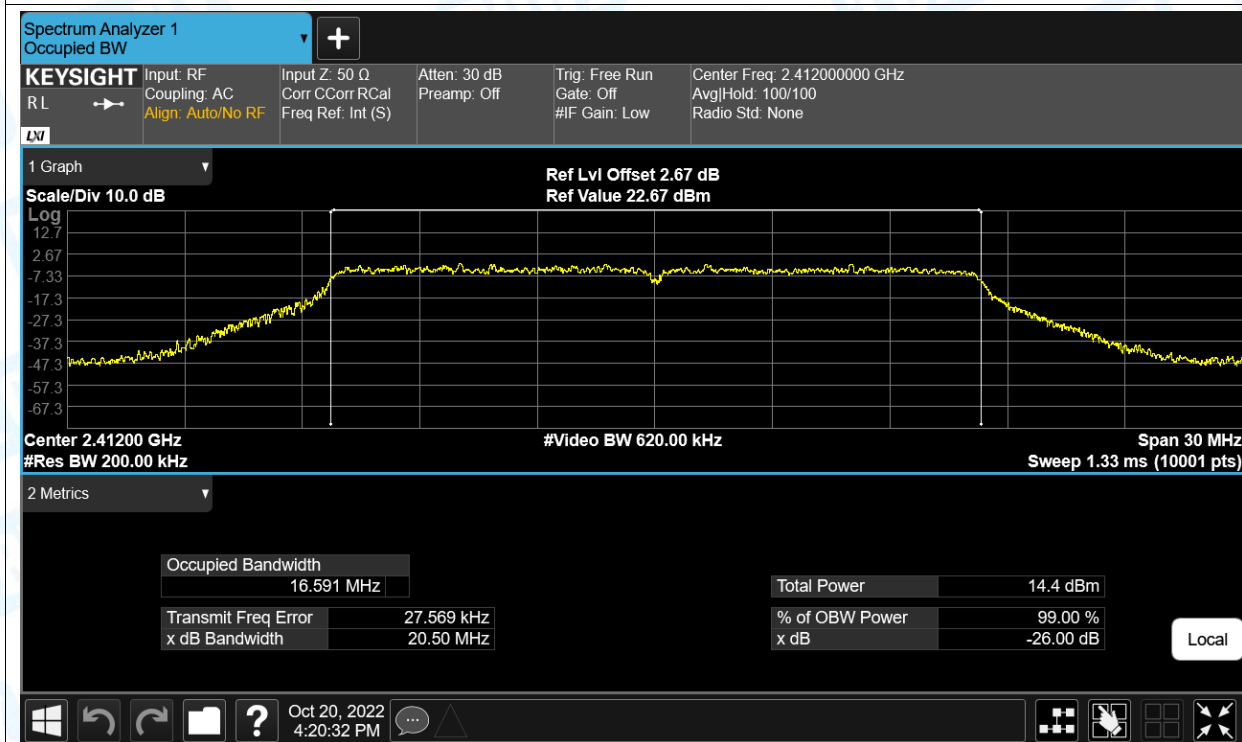
OBW NVNT g 2437MHz Ant1



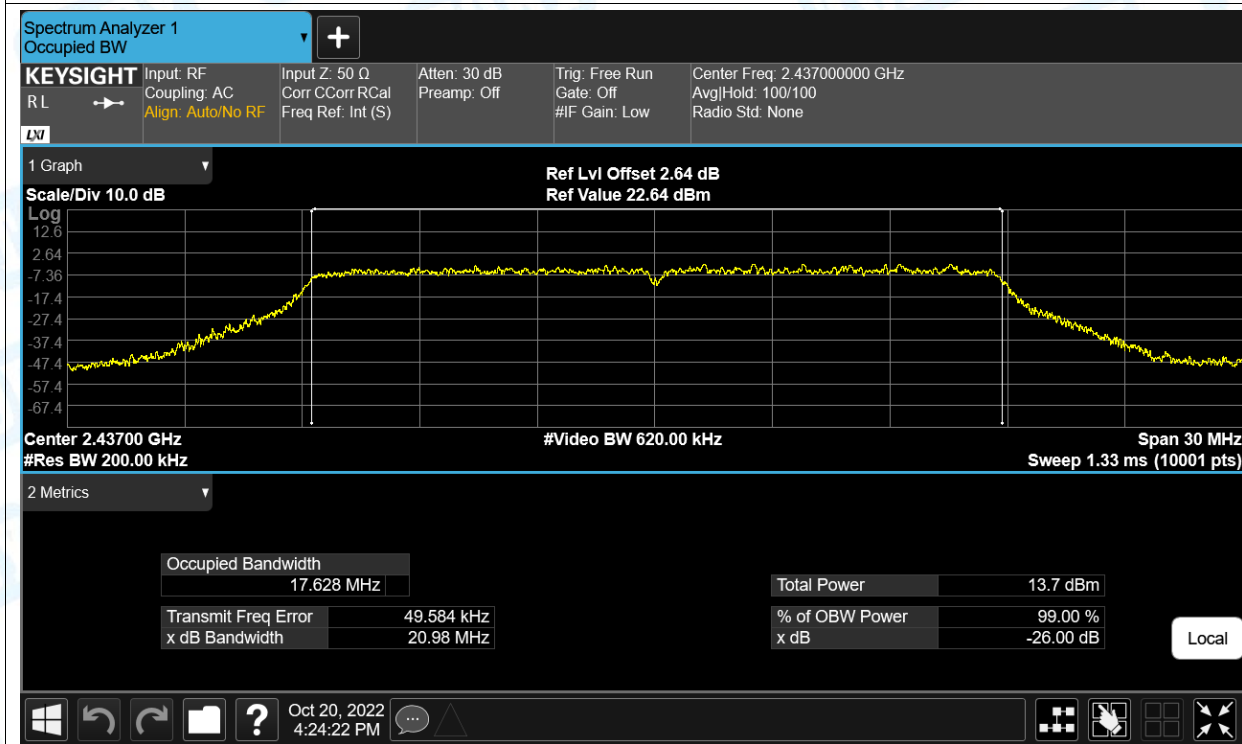
OBW NVNT g 2462MHz Ant1



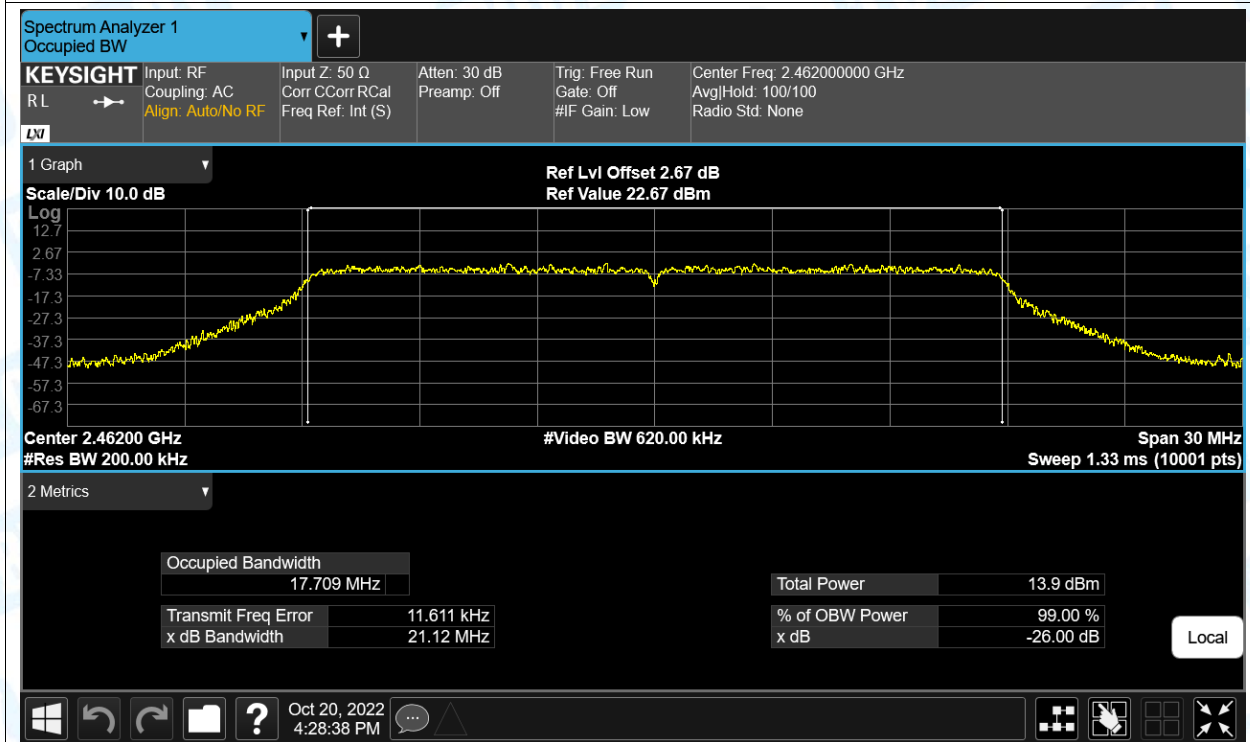
OBW NVNT n(HT20) 2412MHz Ant1



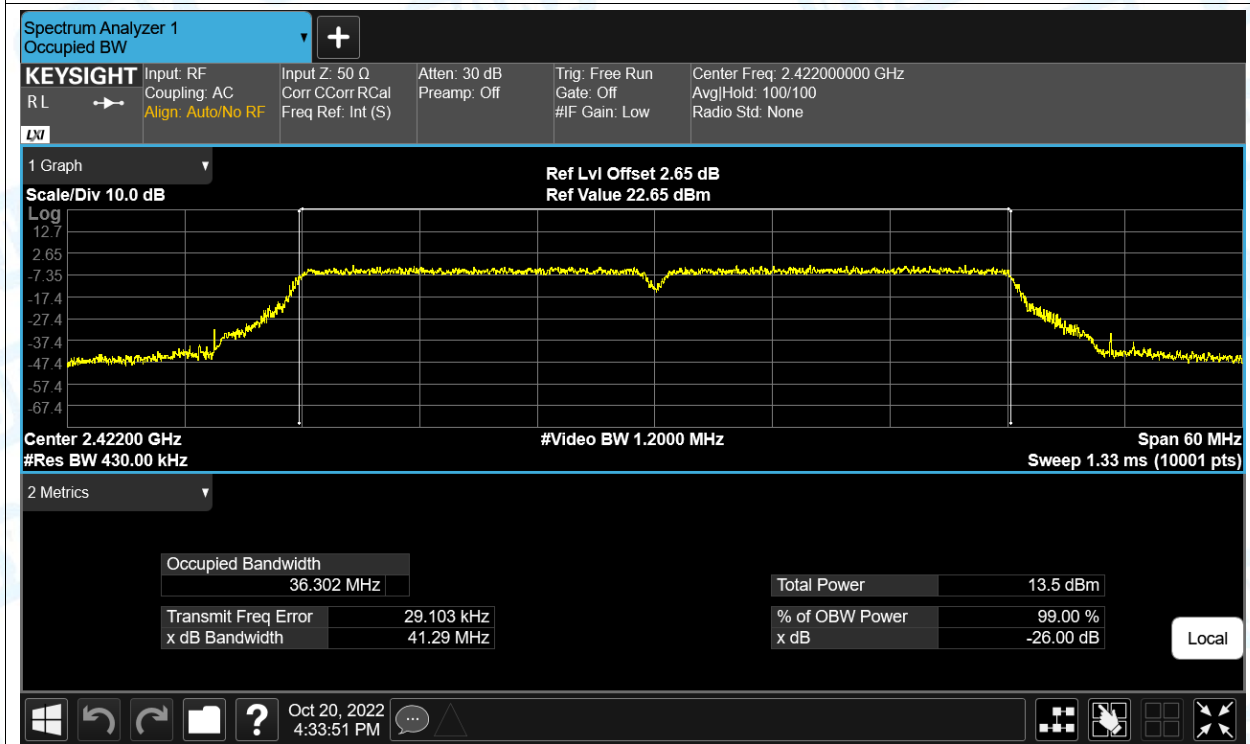
OBW NVNT n(HT20) 2437MHz Ant1



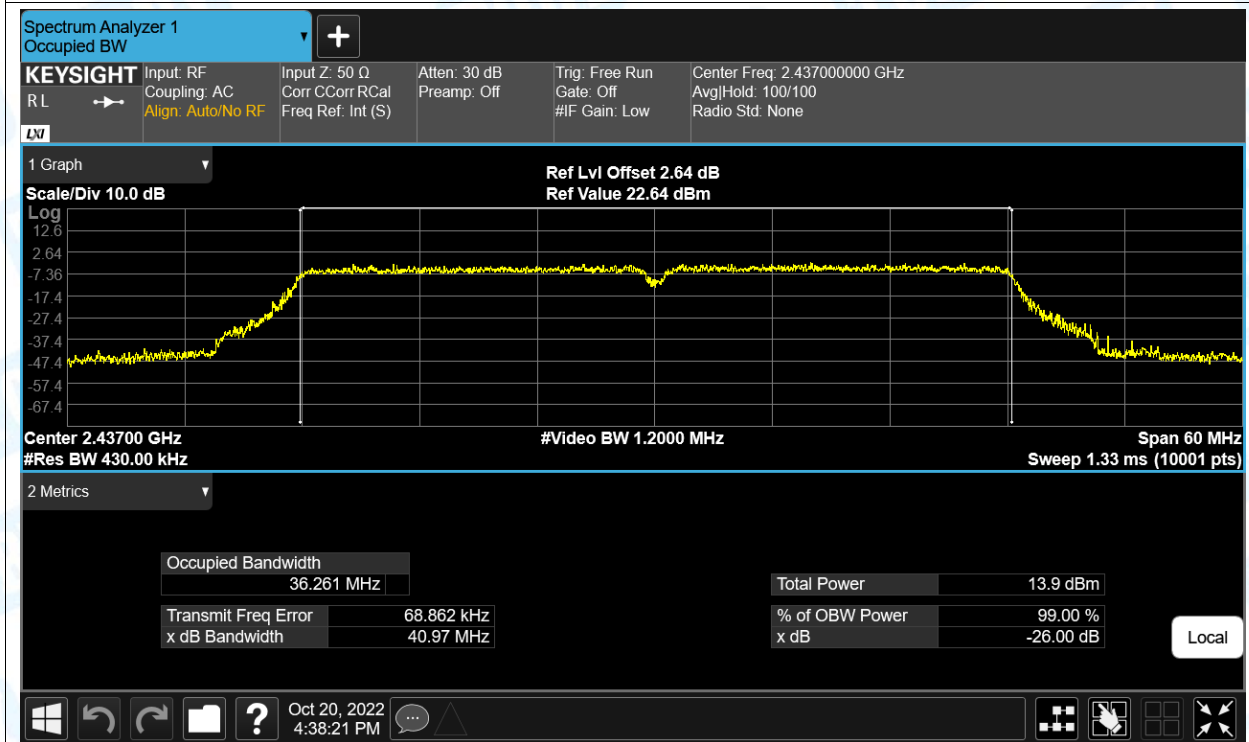
OBW NVNT n(HT20) 2462MHz Ant1



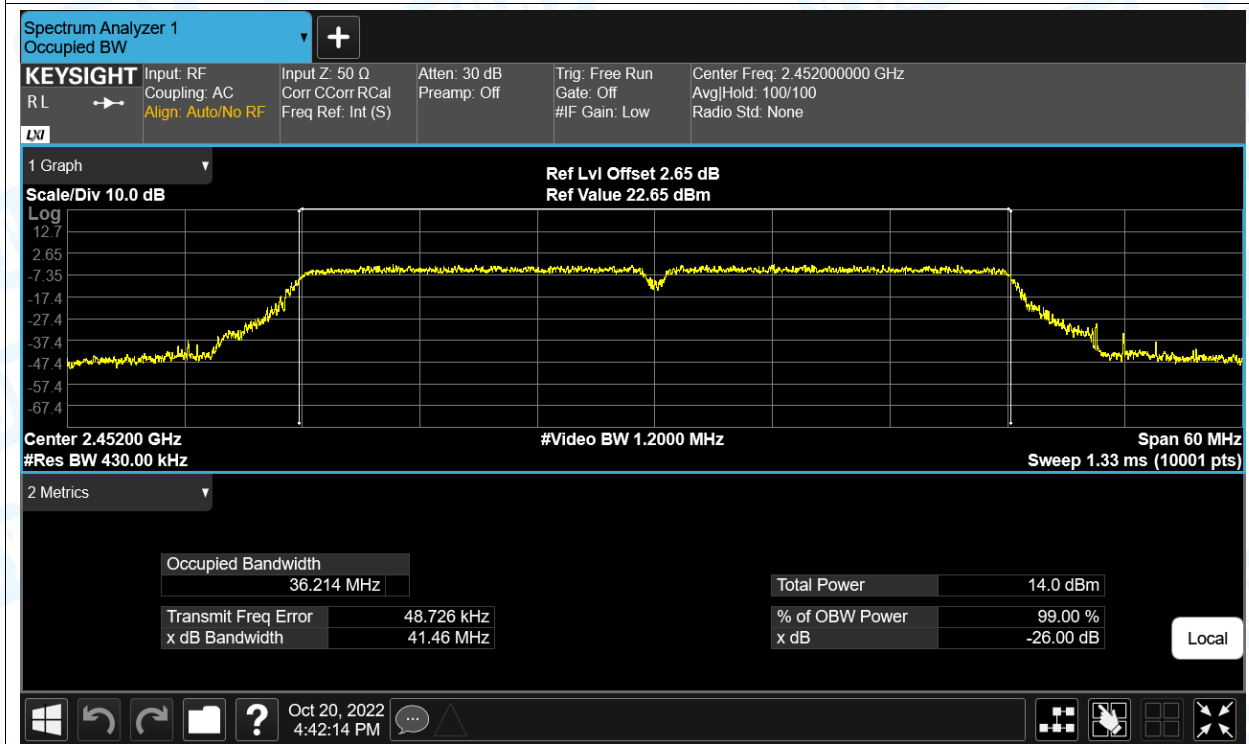
OBW NVNT n(HT40) 2422MHz Ant1



OBW NVNT n(HT40) 2437MHz Ant1



OBW NVNT n(HT40) 2452MHz Ant1

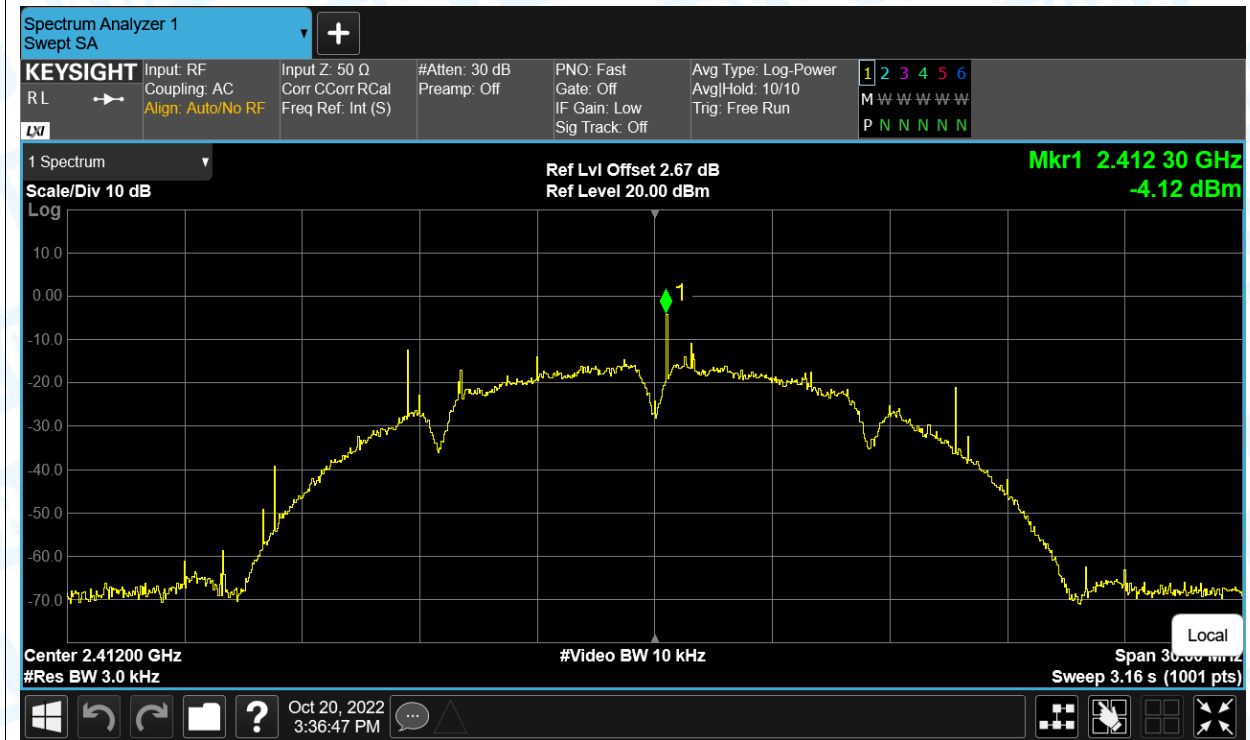


5. Maximum Power Spectral Density Level

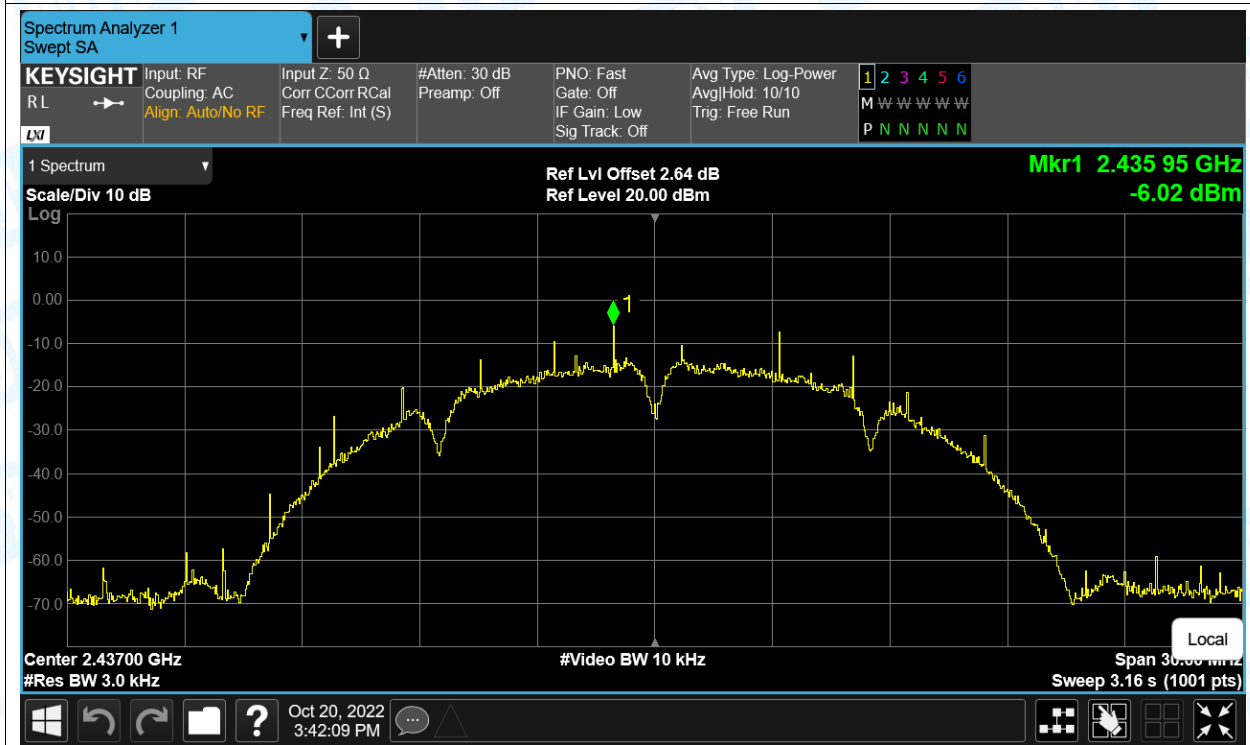
Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	Ant1	-4.123	8	Pass
NVNT	b	2437	Ant1	-6.02	8	Pass
NVNT	b	2462	Ant1	-3.519	8	Pass
NVNT	g	2412	Ant1	-17.921	8	Pass
NVNT	g	2437	Ant1	-18.116	8	Pass
NVNT	g	2462	Ant1	-17.926	8	Pass
NVNT	n(HT20)	2412	Ant1	-18.438	8	Pass
NVNT	n(HT20)	2437	Ant1	-18.858	8	Pass
NVNT	n(HT20)	2462	Ant1	-18.572	8	Pass
NVNT	n(HT40)	2422	Ant1	-20.417	8	Pass
NVNT	n(HT40)	2437	Ant1	-20.121	8	Pass
NVNT	n(HT40)	2452	Ant1	-20.376	8	Pass

Test Graphs

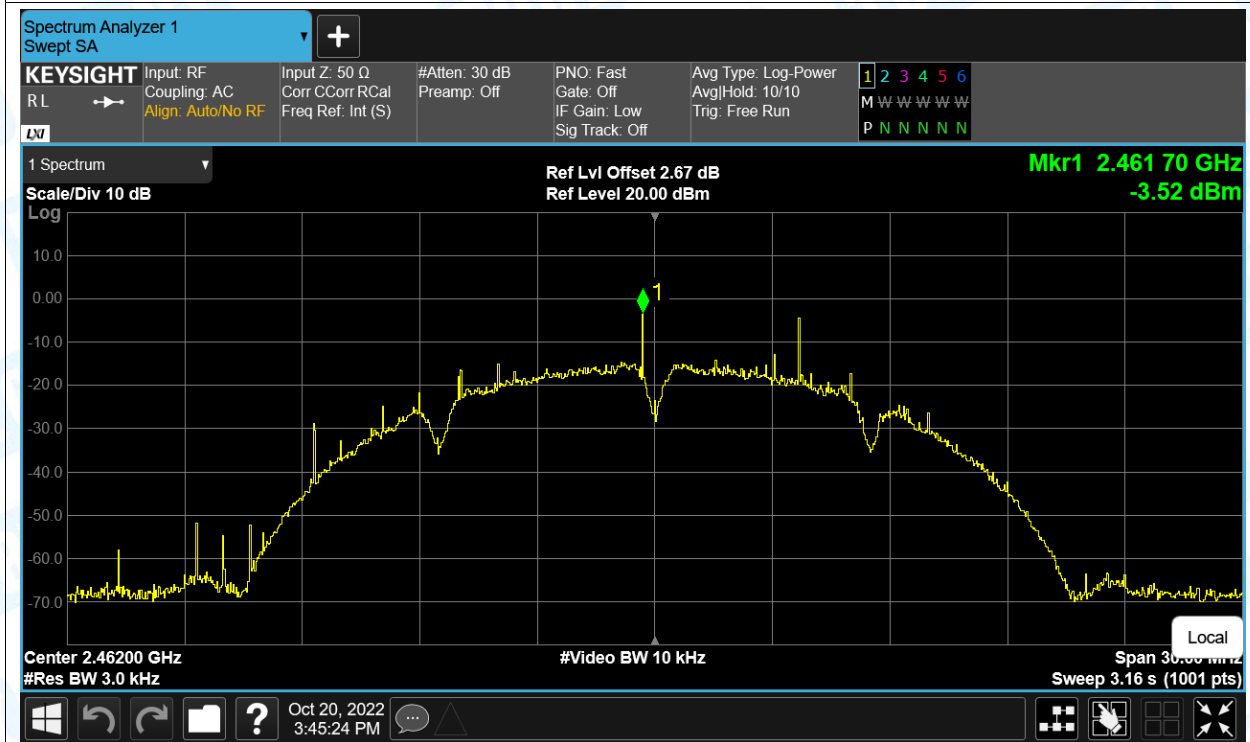
PSD NVNT b 2412MHz Ant1



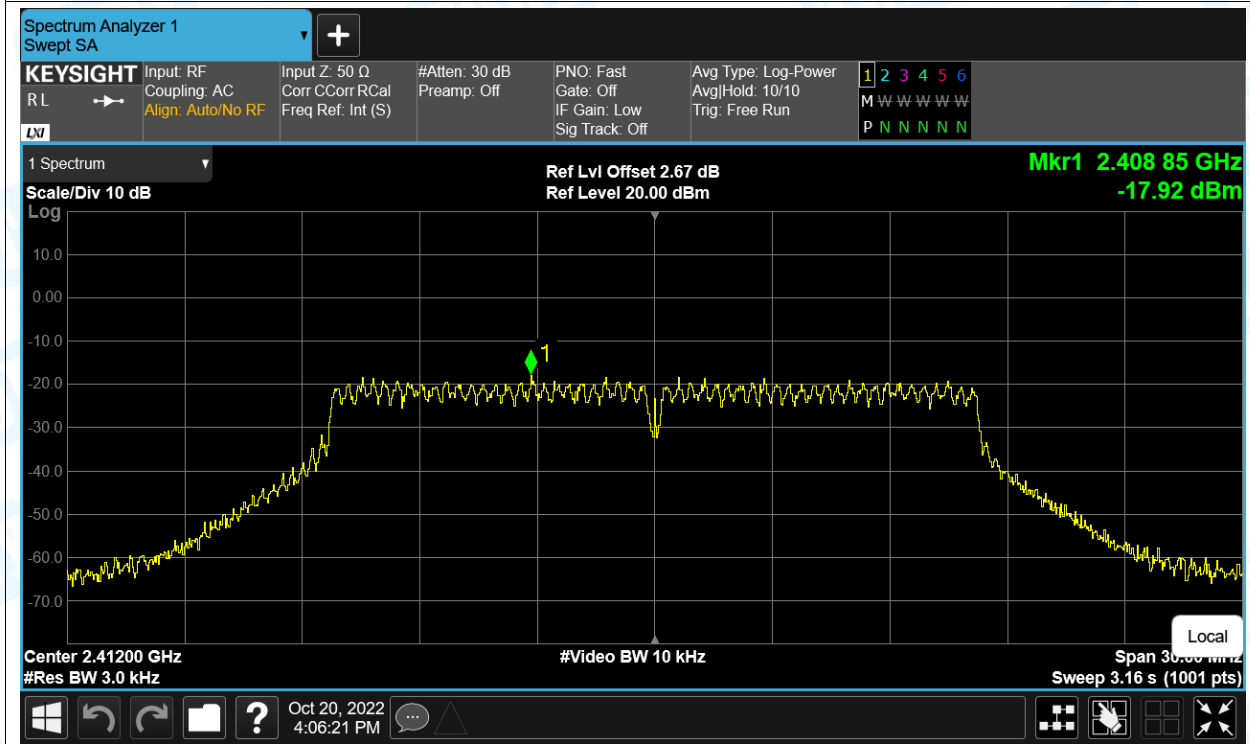
PSD NVNT b 2437MHz Ant1

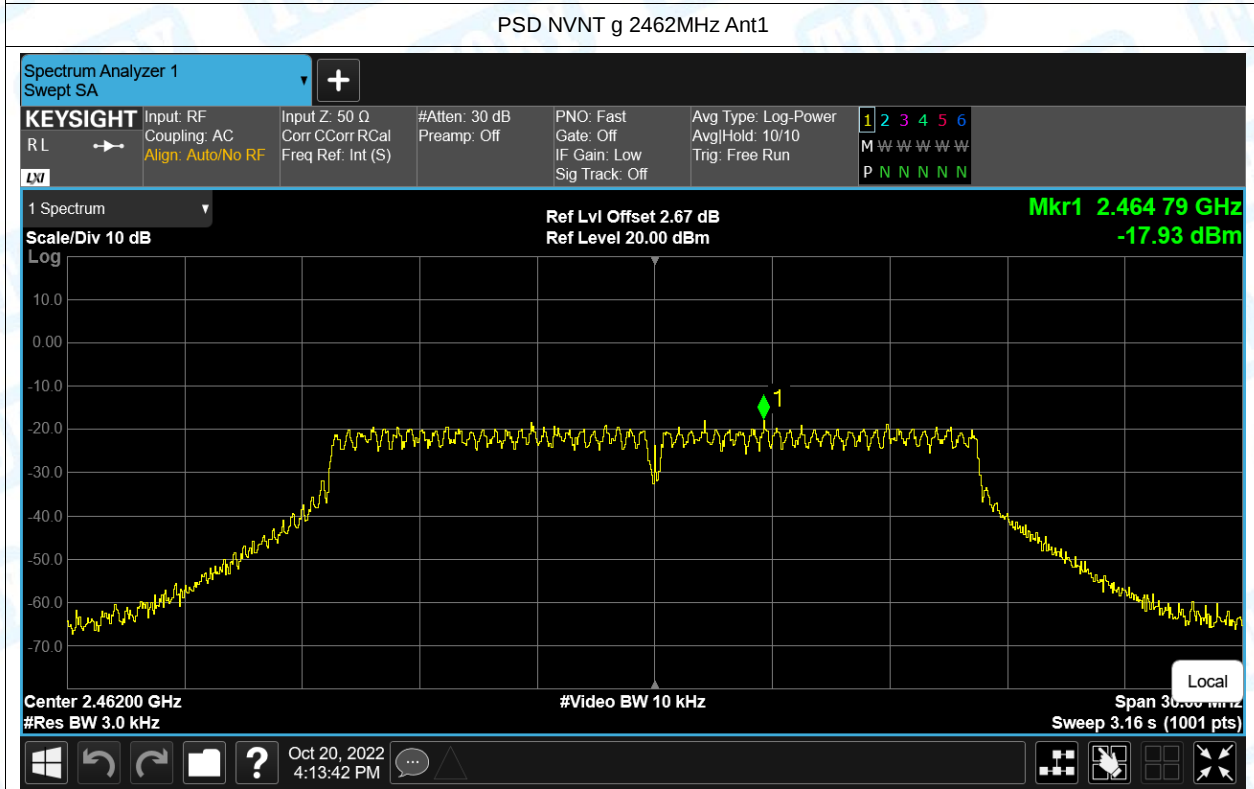
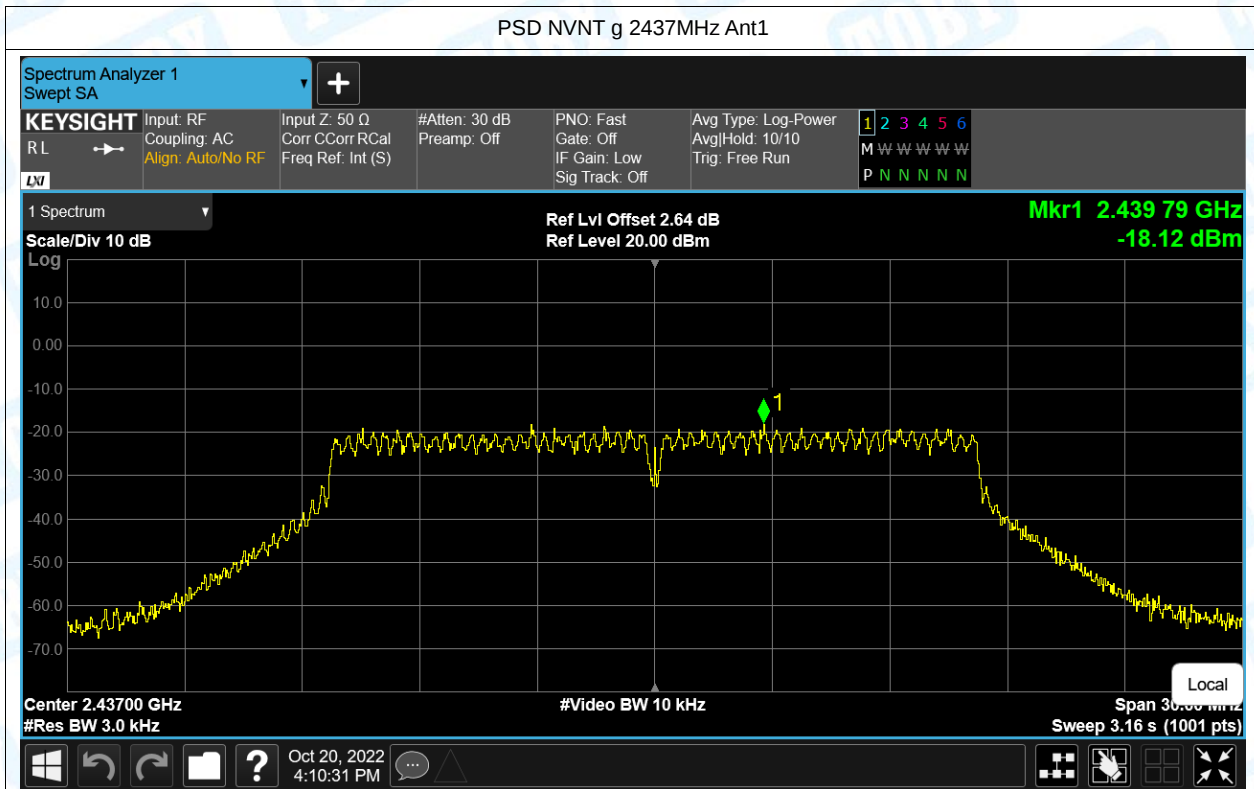


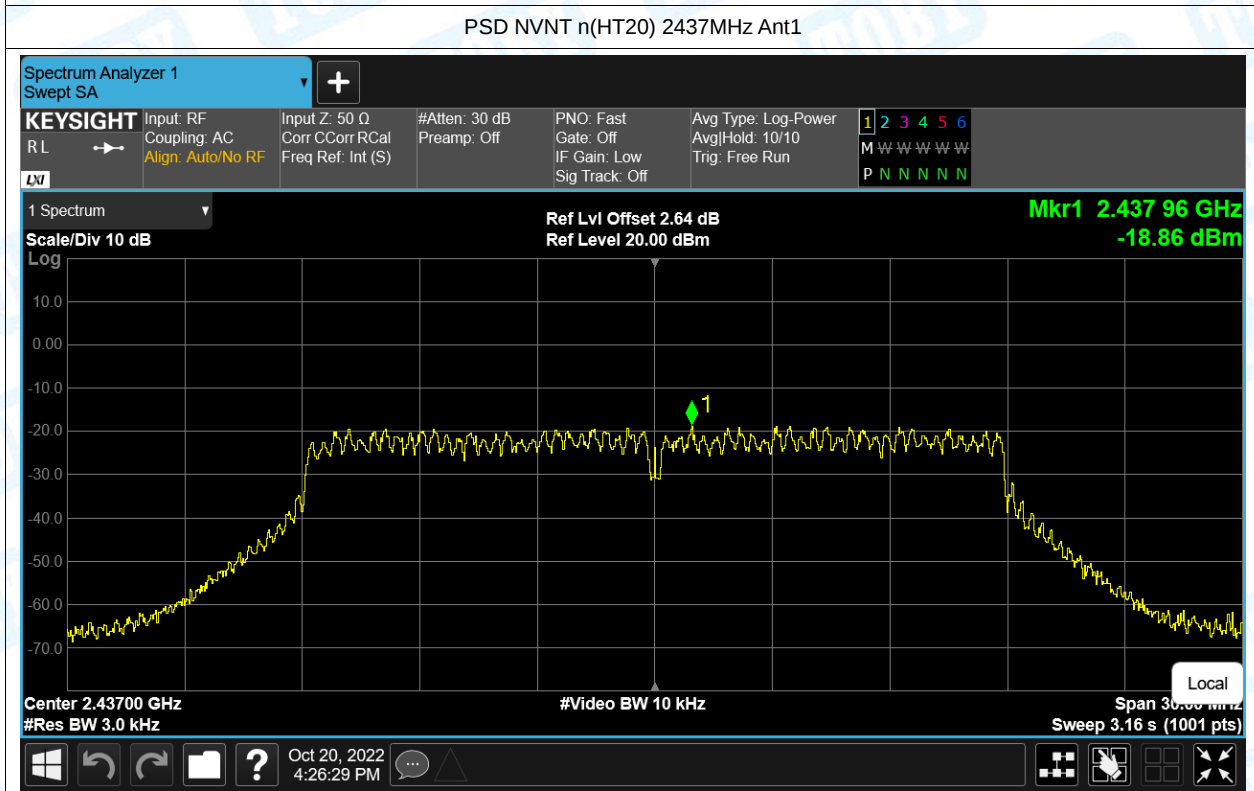
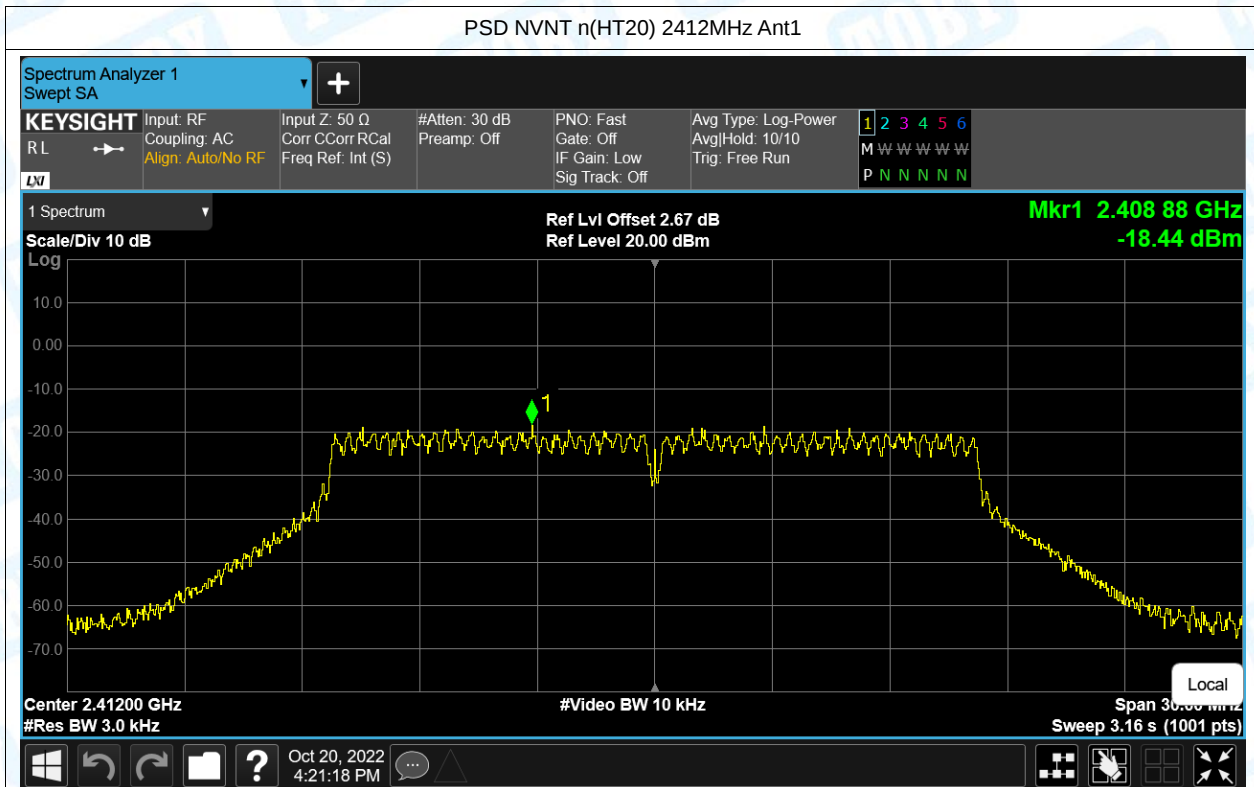
PSD NVNT b 2462MHz Ant1

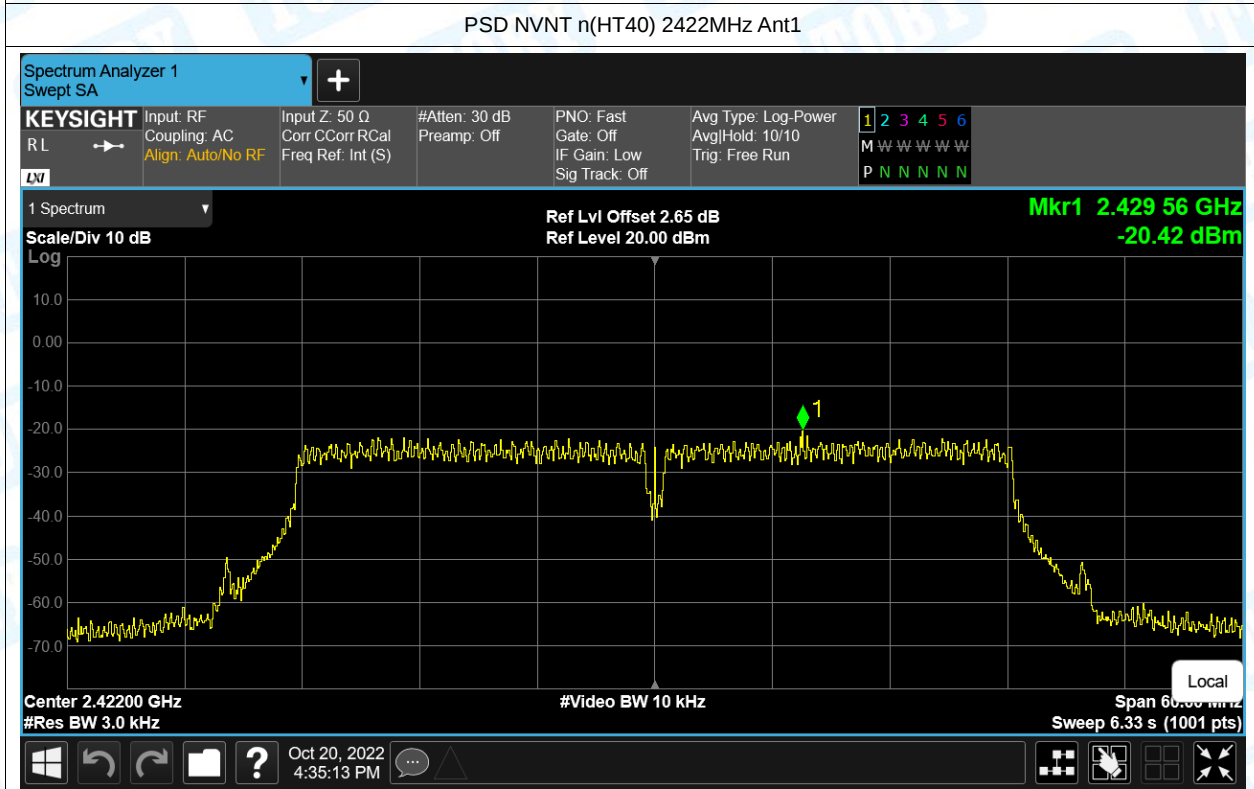
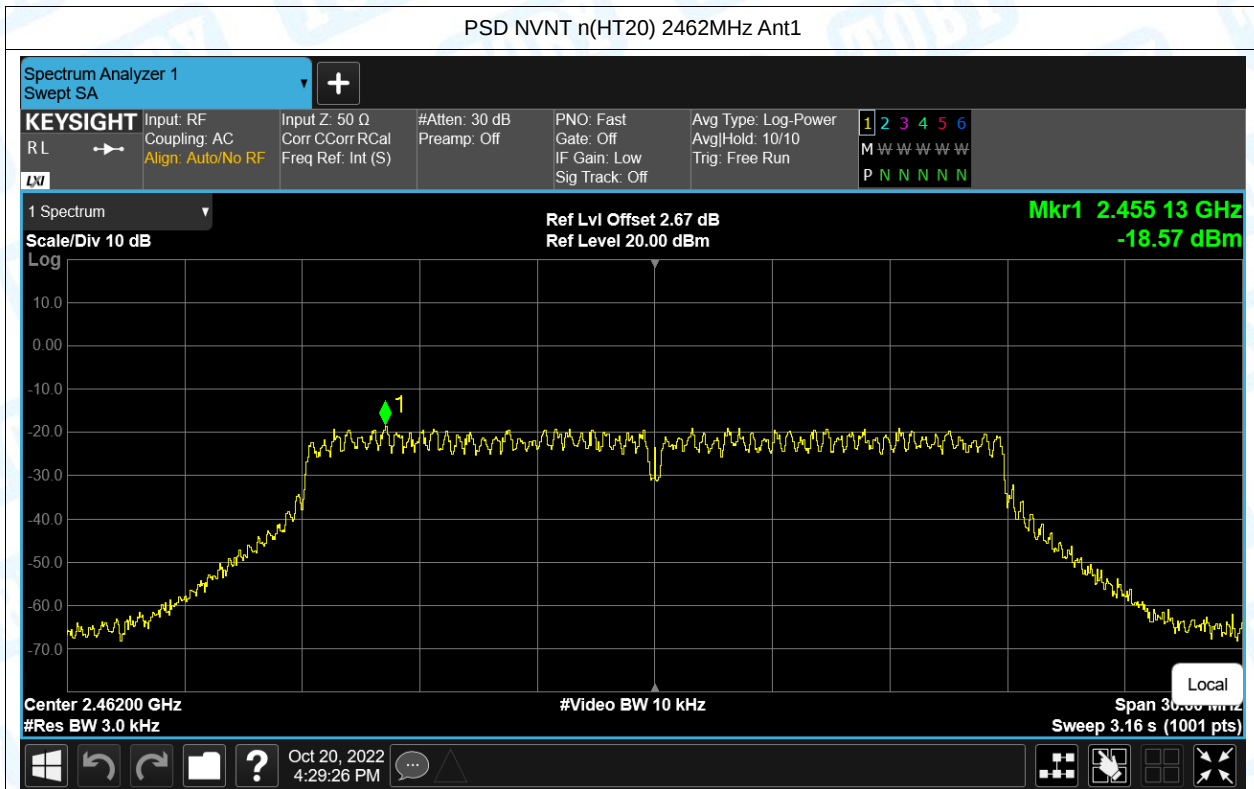


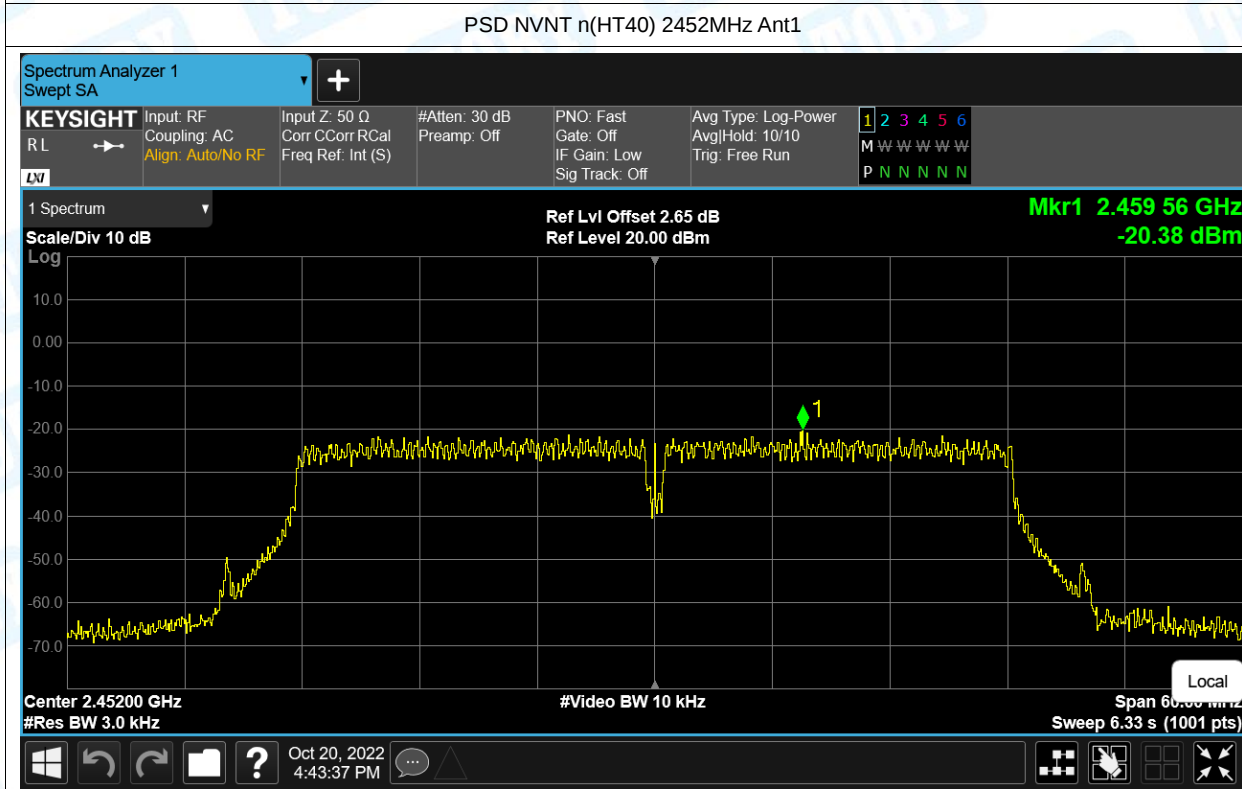
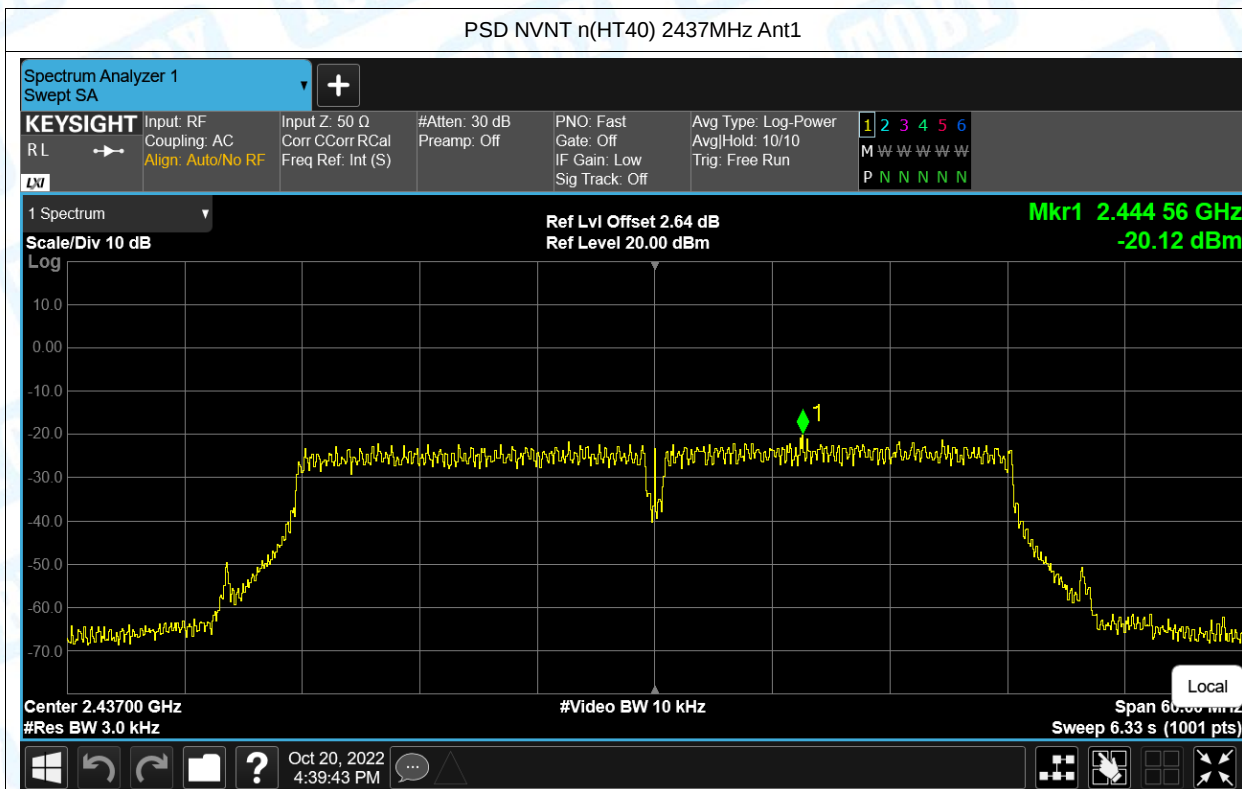
PSD NVNT g 2412MHz Ant1









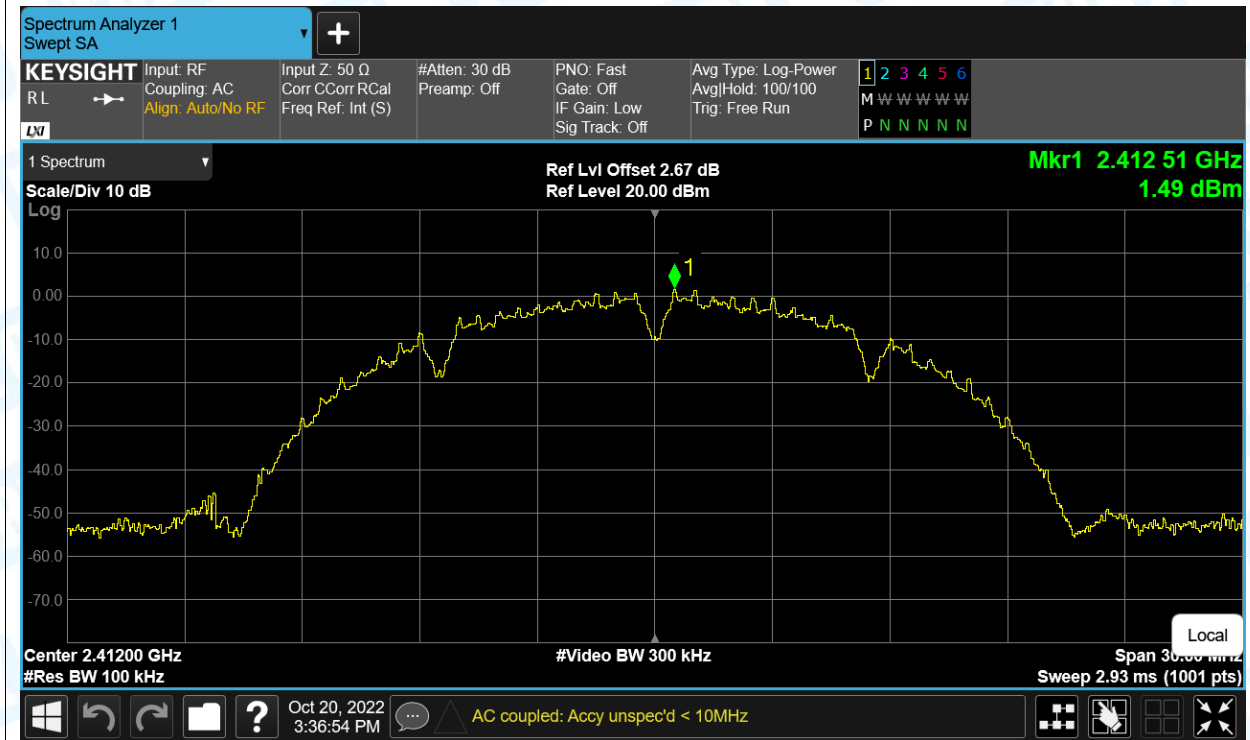


6. Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-56.37	-20	Pass
NVNT	b	2462	Ant1	-57.15	-20	Pass
NVNT	g	2412	Ant1	-52.48	-20	Pass
NVNT	g	2462	Ant1	-51.85	-20	Pass
NVNT	n(HT20)	2412	Ant1	-51.55	-20	Pass
NVNT	n(HT20)	2462	Ant1	-50.86	-20	Pass
NVNT	n(HT40)	2422	Ant1	-43.99	-20	Pass
NVNT	n(HT40)	2452	Ant1	-43.21	-20	Pass

Test Graphs

Band Edge NVNT b 2412MHz Ant1 Ref



Band Edge NVNT b 2412MHz Ant1 Emission

