

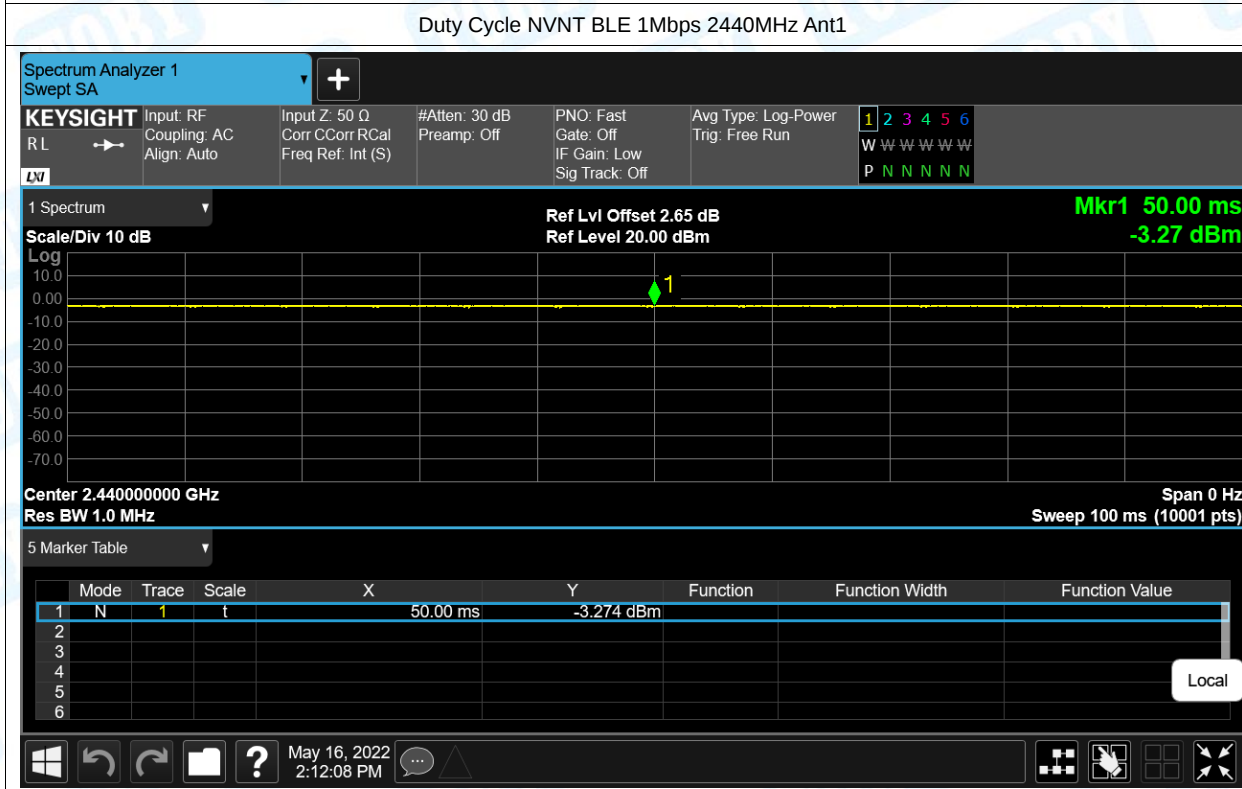
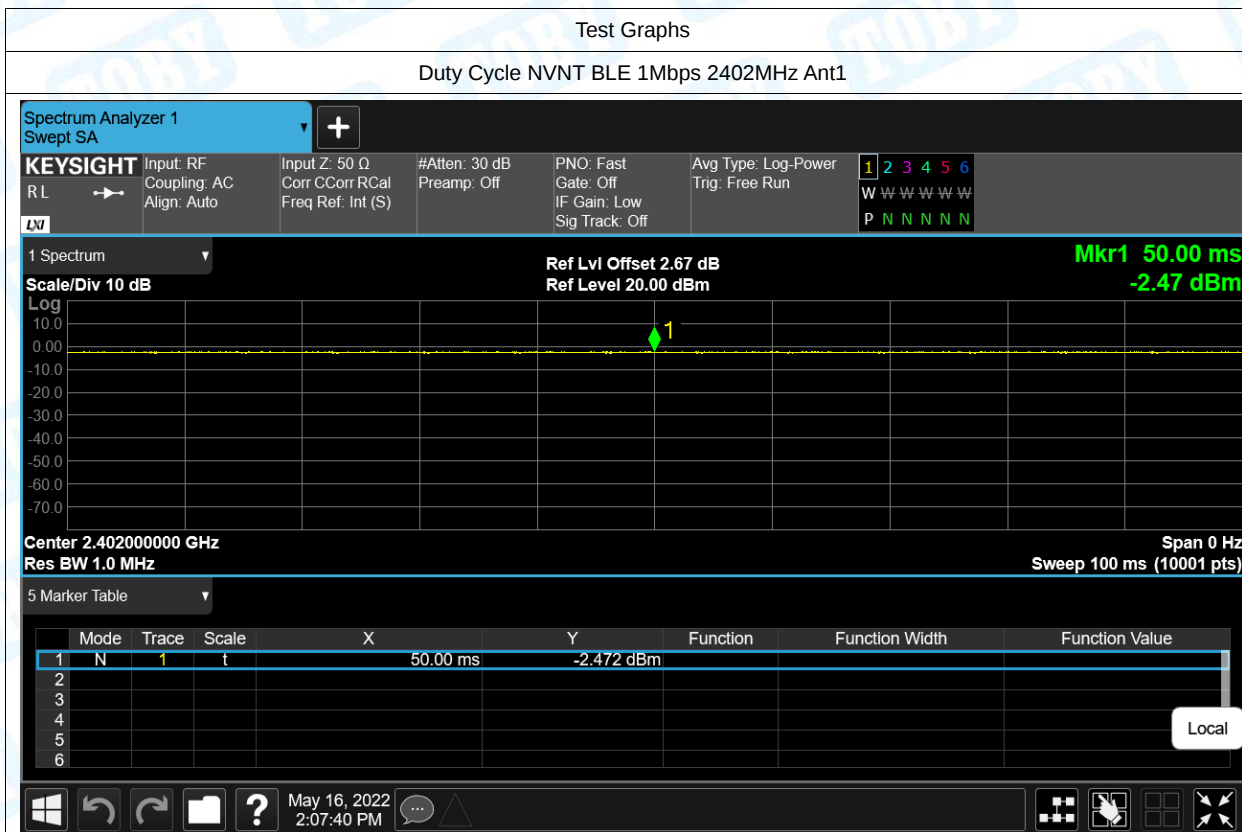
RF Test Data for Bluetooth LE

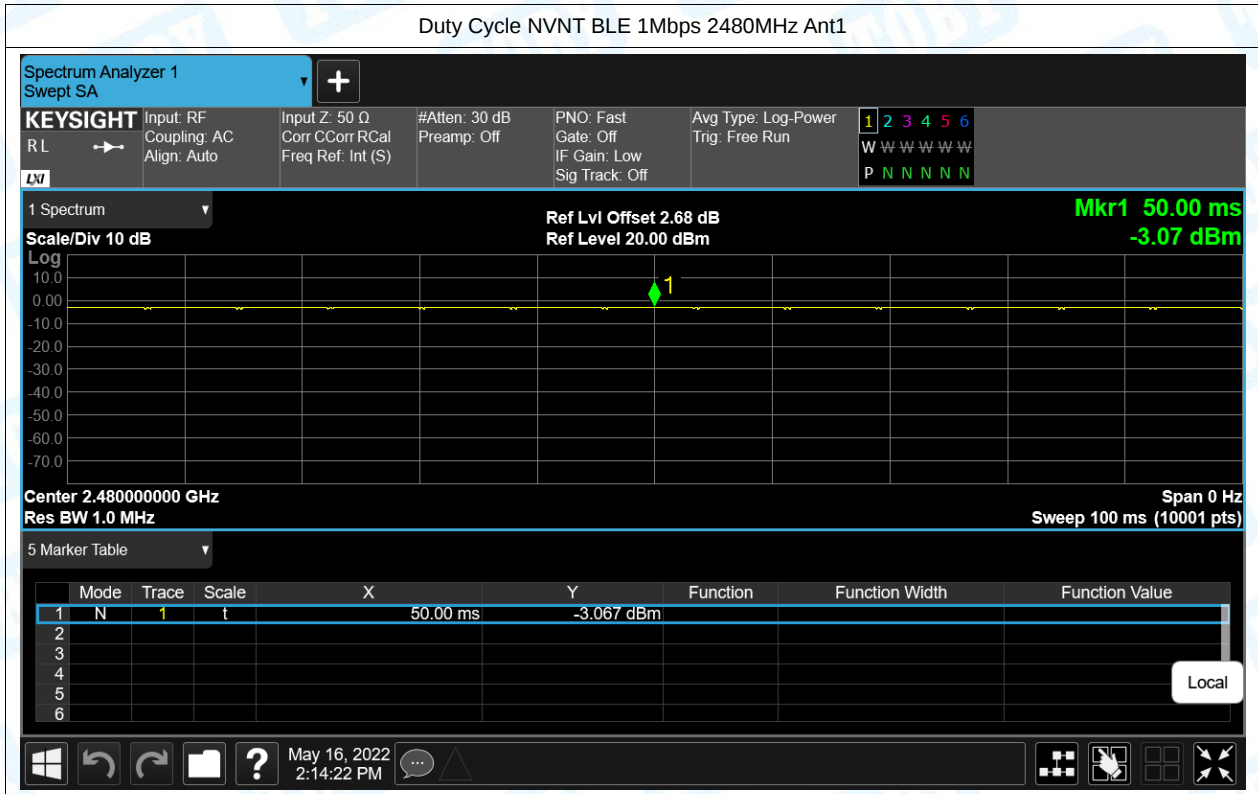
(Conducted Measurements)

General Description of EUT	
Product Name:	Wireless Smart Battery Camera
Test Model:	CG1
Sample ID:	202204-0397-6-2#
Environmental Conditions	
Temperature:	24℃
Relative Humidity:	50%
Test Voltage:	DC 5V
Test Engineer:	Huangjianping
Note: For a more detailed features description, please refer to the report TBR-C-202204-0397-7.	

Duty Cycle

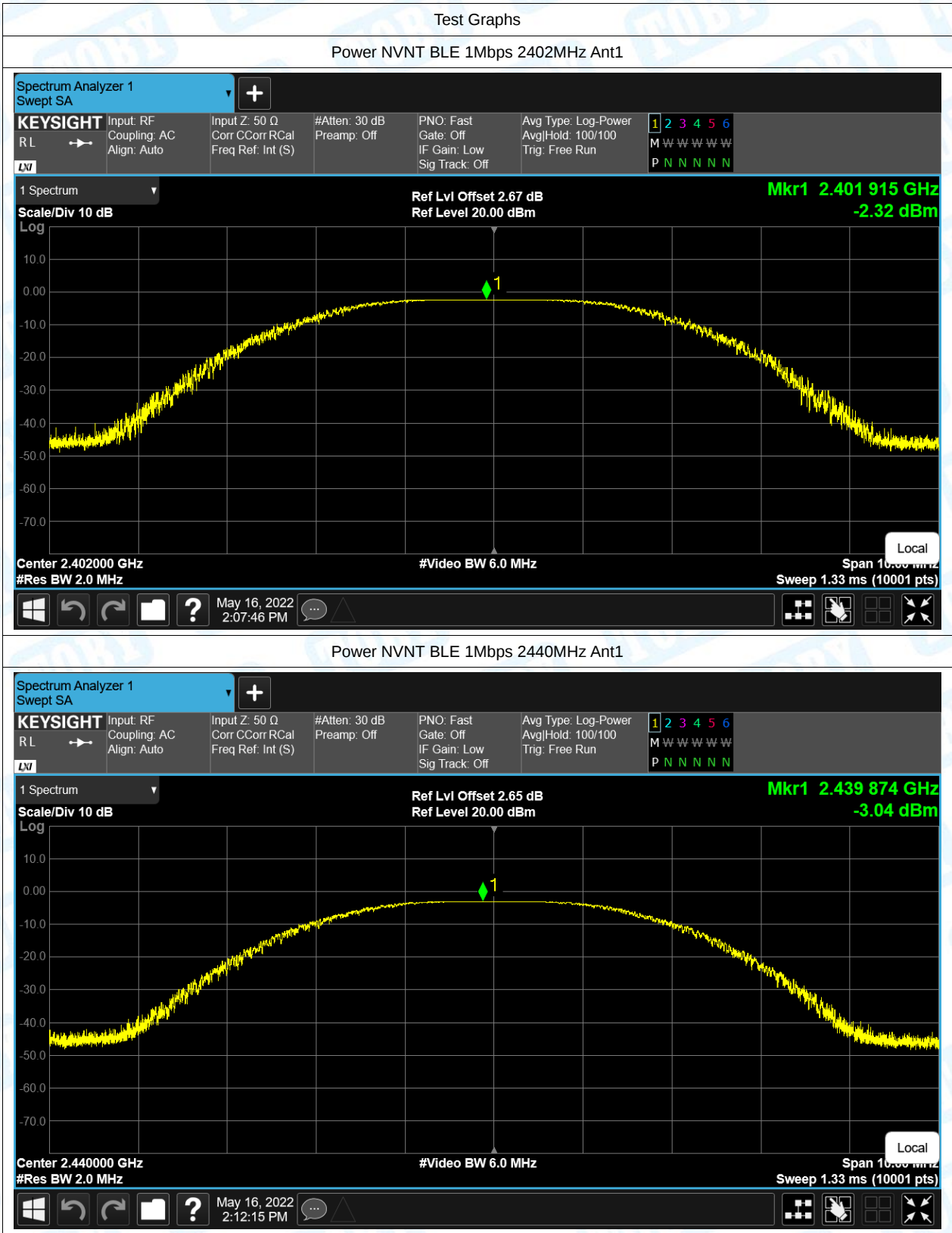
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	BLE 1Mbps	2402	Ant1	100	0	0
NVNT	BLE 1Mbps	2440	Ant1	100	0	0
NVNT	BLE 1Mbps	2480	Ant1	100	0	0





Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1Mbps	2402	Ant1	-2.32	30	Pass
NVNT	BLE 1Mbps	2440	Ant1	-3.04	30	Pass
NVNT	BLE 1Mbps	2480	Ant1	-2.85	30	Pass



Power NVNT BLE 1Mbps 2440MHz Ant1

Spectrum Analyzer 1

Swept SA

KEYSIGHT

Input: RF

Coupling: AC

Align: Auto

Input Z: 50 Ω

Corr C: Corr

R: Cal

Freq Ref: Int (S)

#Atten: 30 dB

Preamp: Off

PNO: Fast

Gate: Off

IF Gain: Low

Sig Track: Off

Avg Type: Log-Power

Avg/Hold: 100/100

Trig: Free Run

1 2 3 4 5 6

M W W W W W

P N N N N N

1 Spectrum

Scale/Div 10 dB

Log

Ref Lvl Offset 2.65 dB

Ref Level 20.00 dBm

Mkr1 2.439 874 GHz

-3.04 dBm

Center 2.440000 GHz

#Res BW 2.0 MHz

#Video BW 6.0 MHz

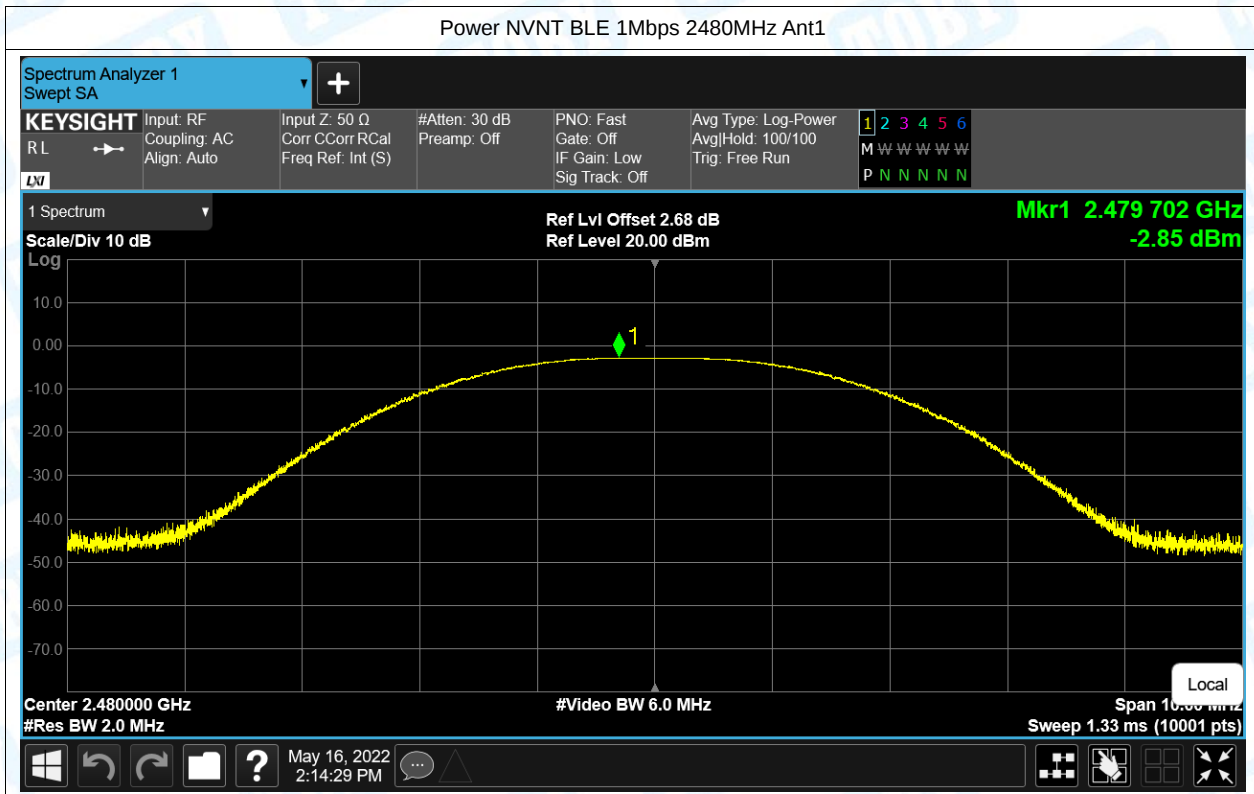
Span 10.00 MHz

Sweep 1.33 ms (10001 pts)

Local

May 16, 2022

2:12:15 PM

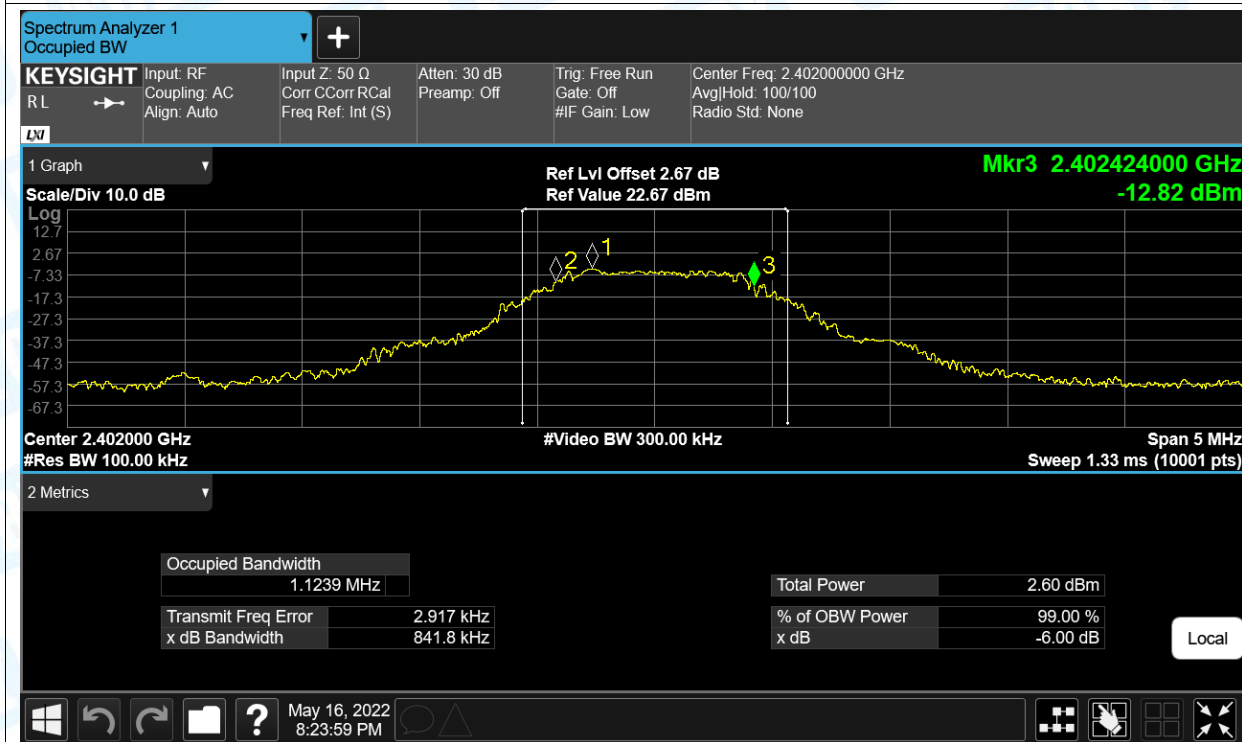


-6dB Bandwidth

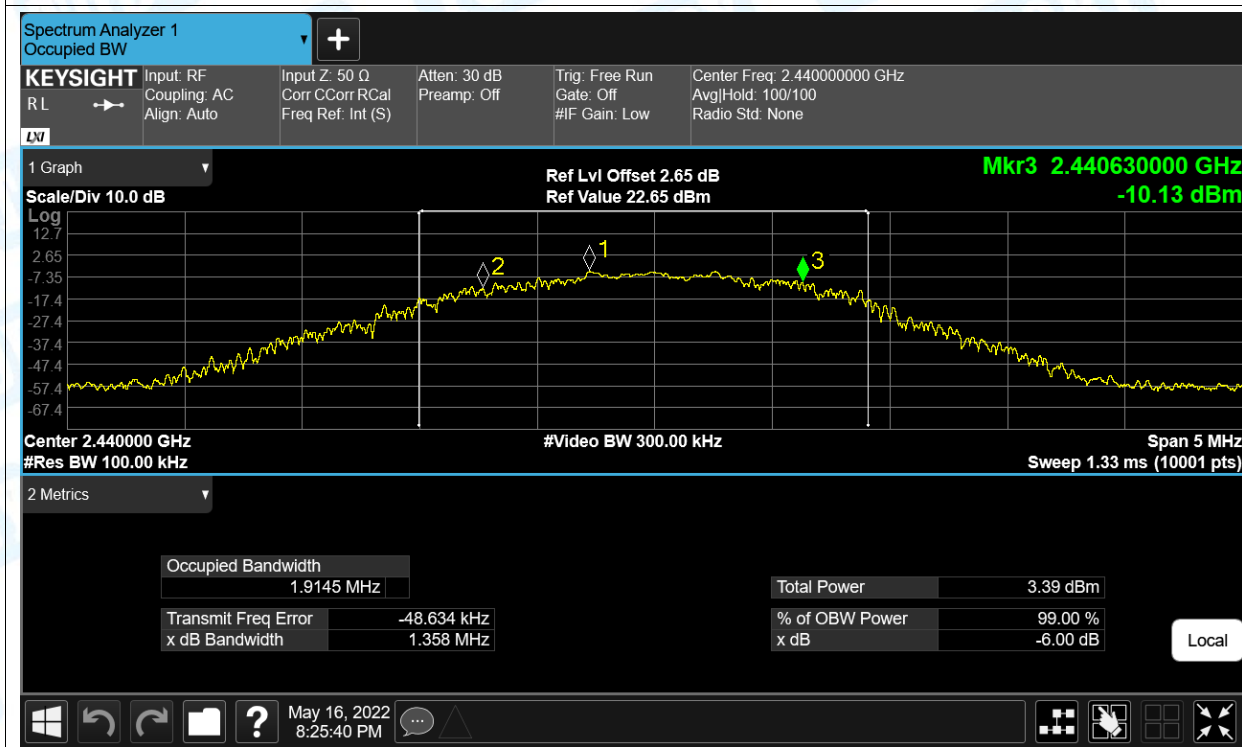
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1Mbps	2402	Ant1	0.8418	0.5	Pass
NVNT	BLE 1Mbps	2440	Ant1	1.358	0.5	Pass
NVNT	BLE 1Mbps	2480	Ant1	1.468	0.5	Pass

Test Graphs

-6dB Bandwidth NVNT BLE 1Mbps 2402MHz Ant1



-6dB Bandwidth NVNT BLE 1Mbps 2440MHz Ant1



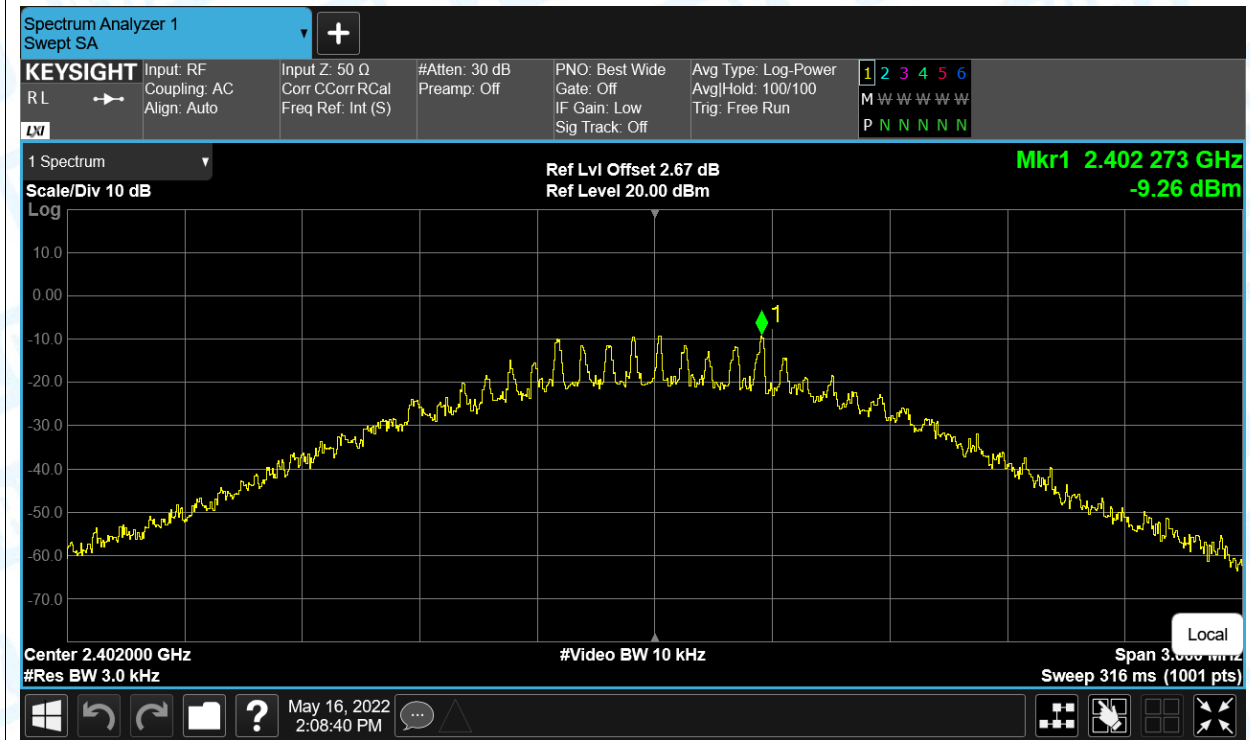


Maximum Power Spectral Density Level

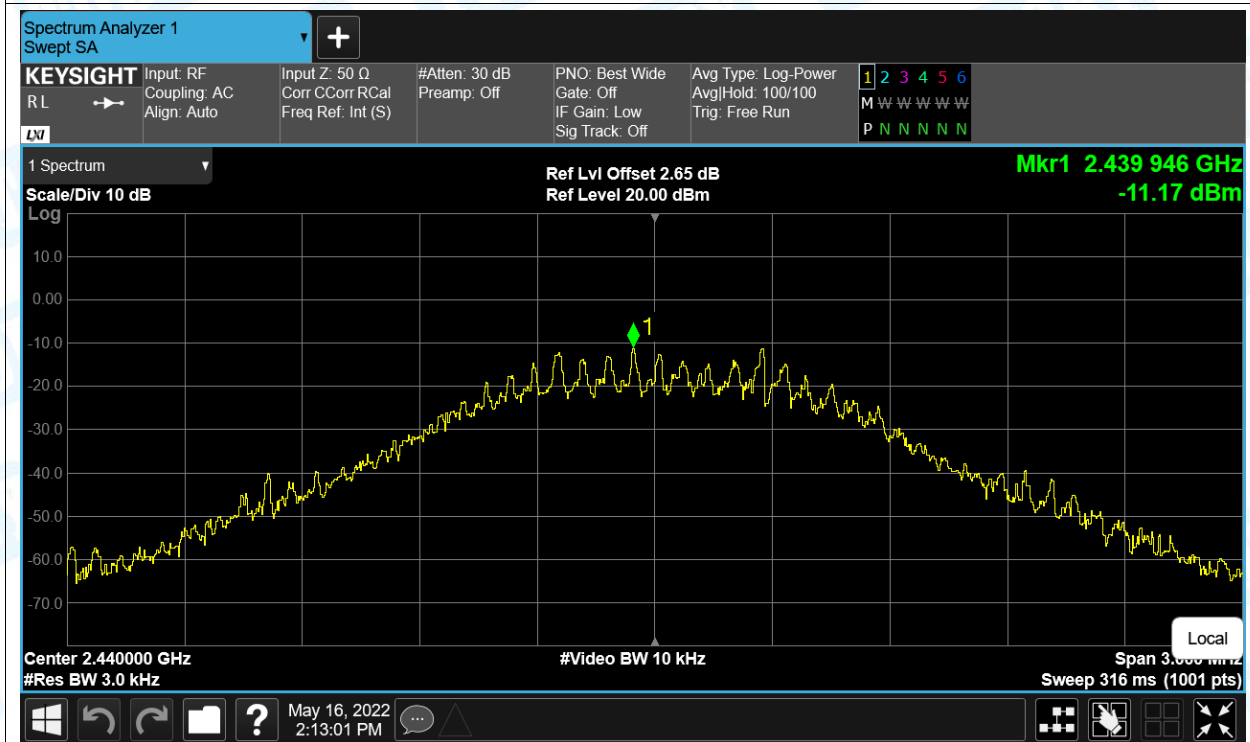
Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1Mbps	2402	Ant1	-9.26	8	Pass
NVNT	BLE 1Mbps	2440	Ant1	-11.17	8	Pass
NVNT	BLE 1Mbps	2480	Ant1	-6.53	8	Pass

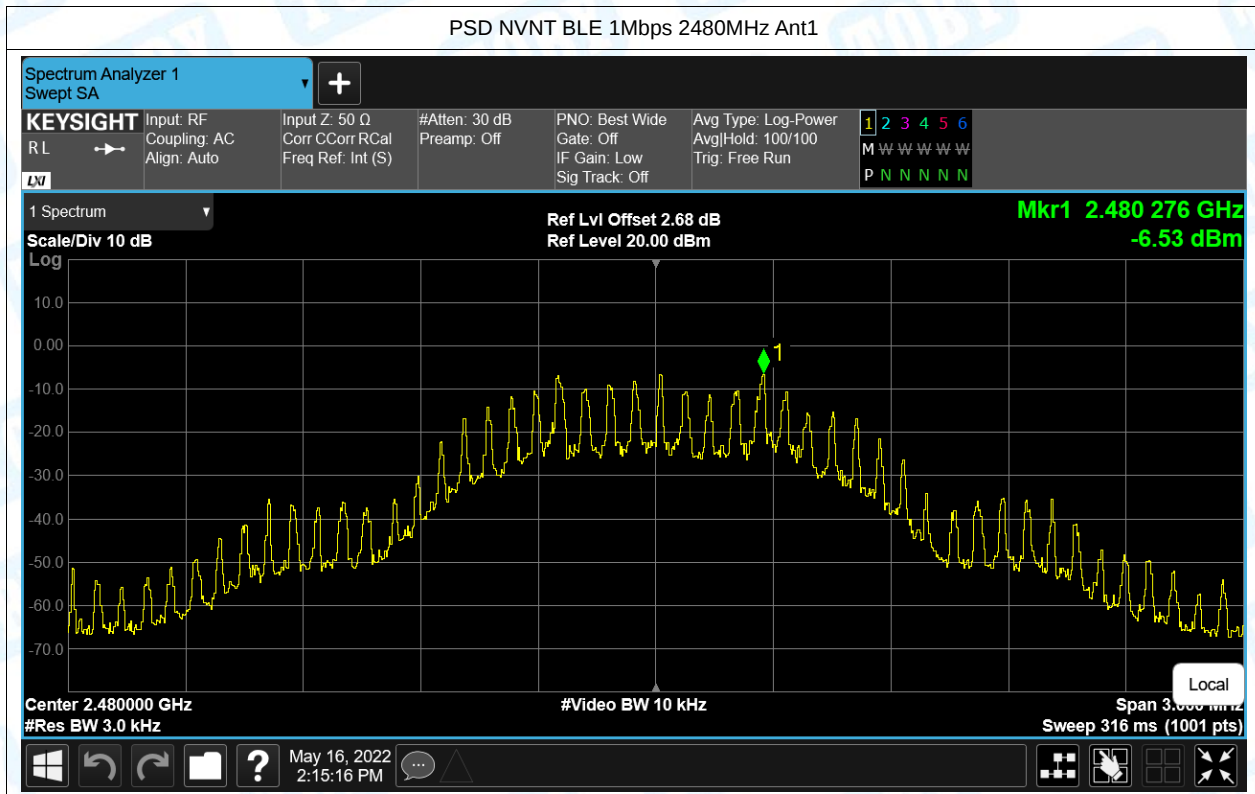
Test Graphs

PSD NVNT BLE 1Mbps 2402MHz Ant1



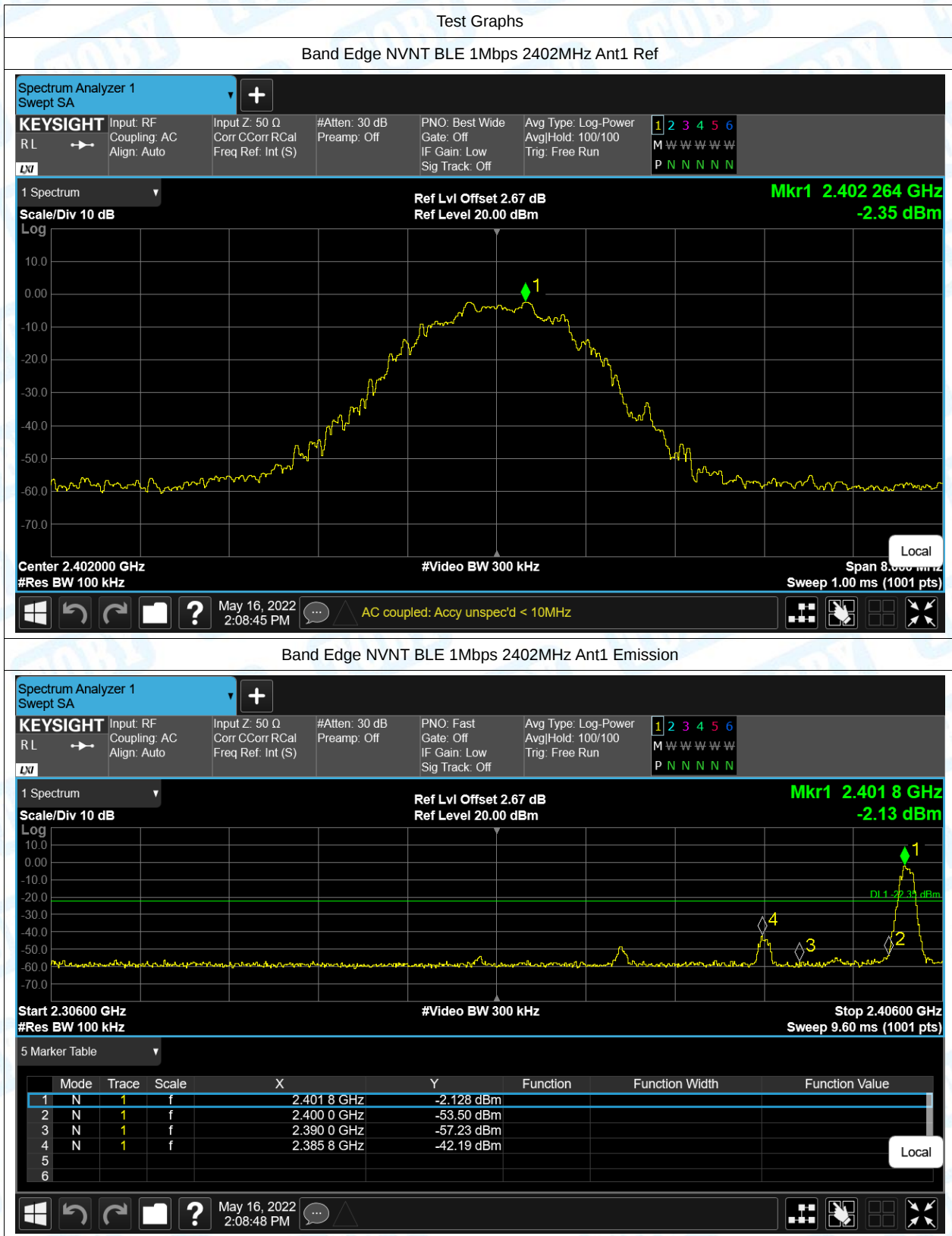
PSD NVNT BLE 1Mbps 2440MHz Ant1

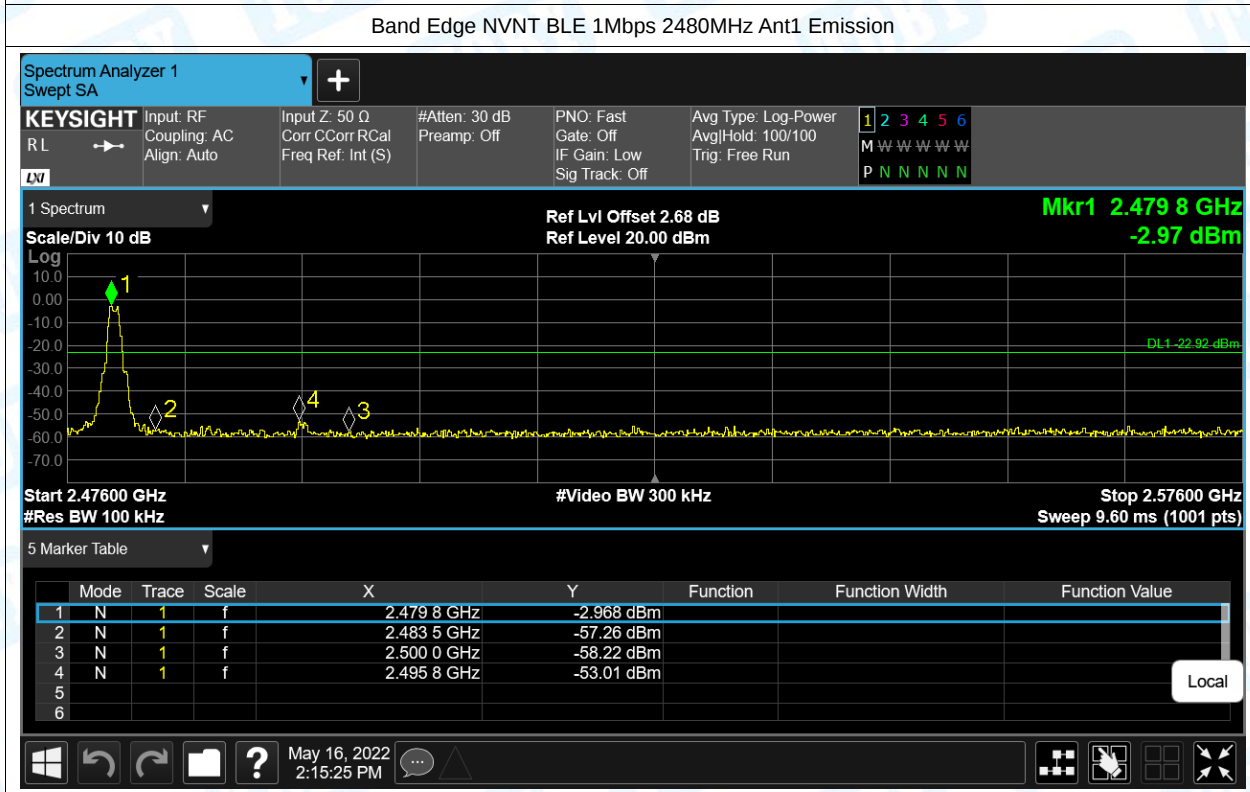
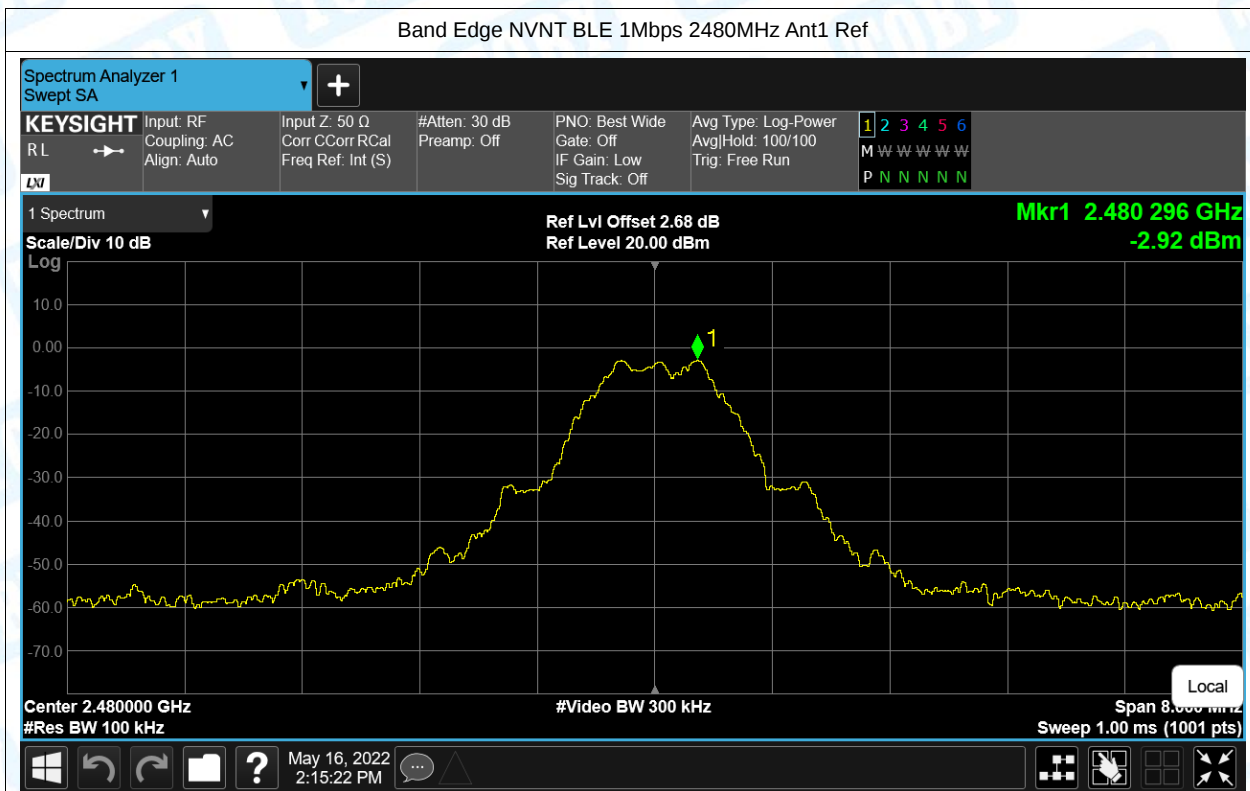




Band Edge

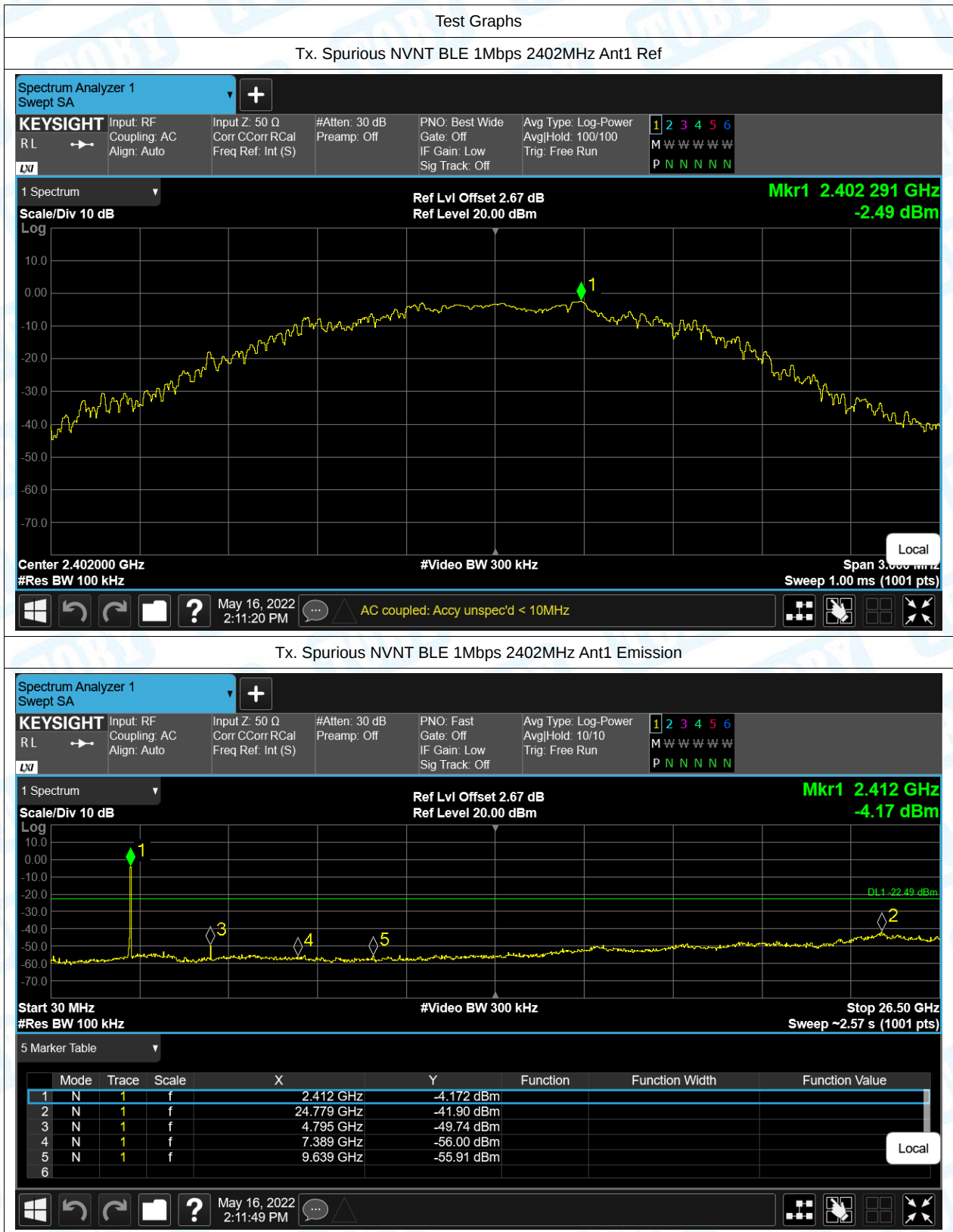
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1Mbps	2402	Ant1	-39.84	-20	Pass
NVNT	BLE 1Mbps	2480	Ant1	-50.09	-20	Pass

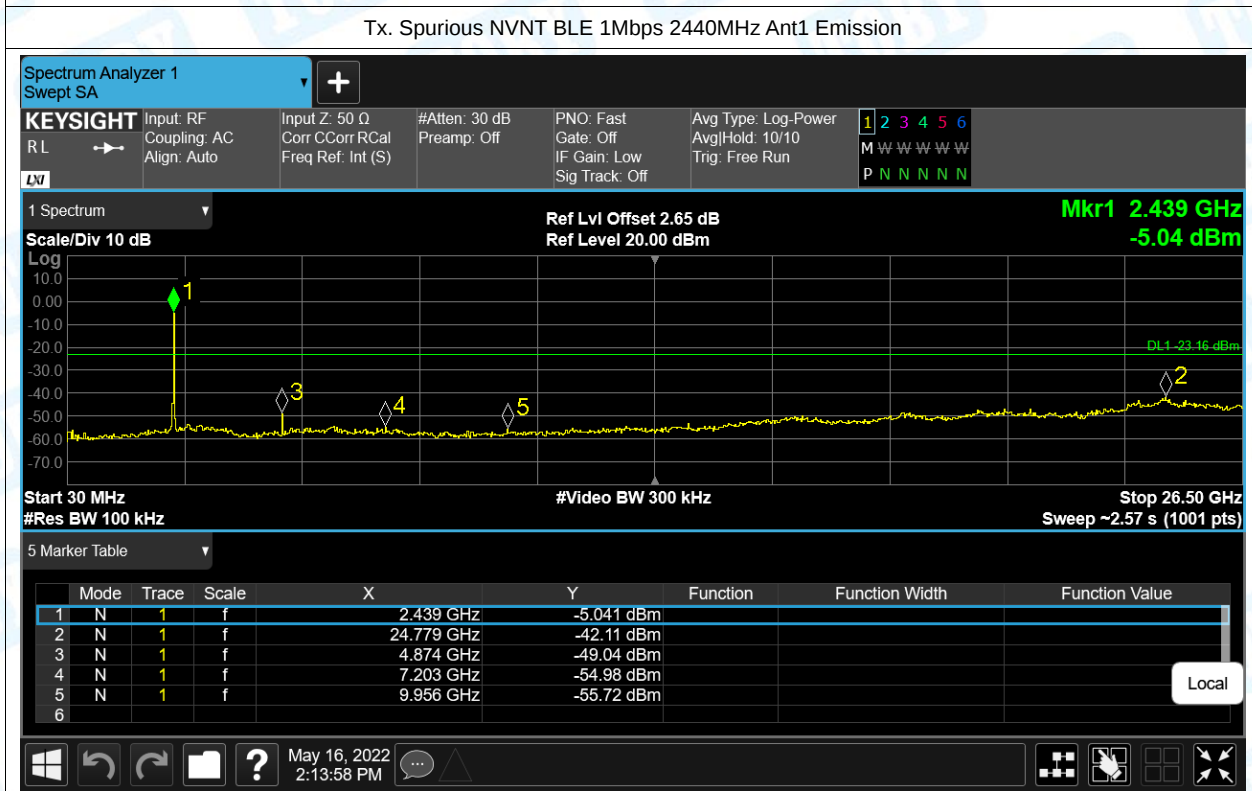
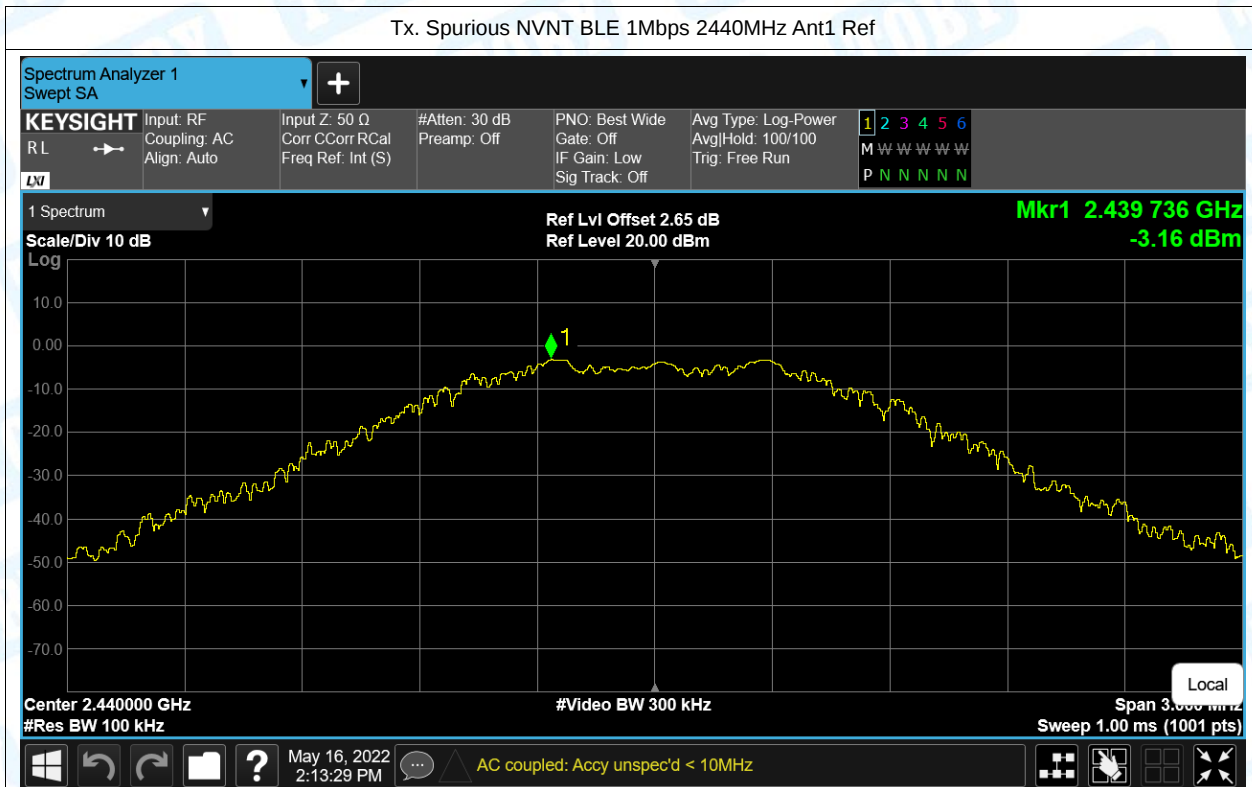


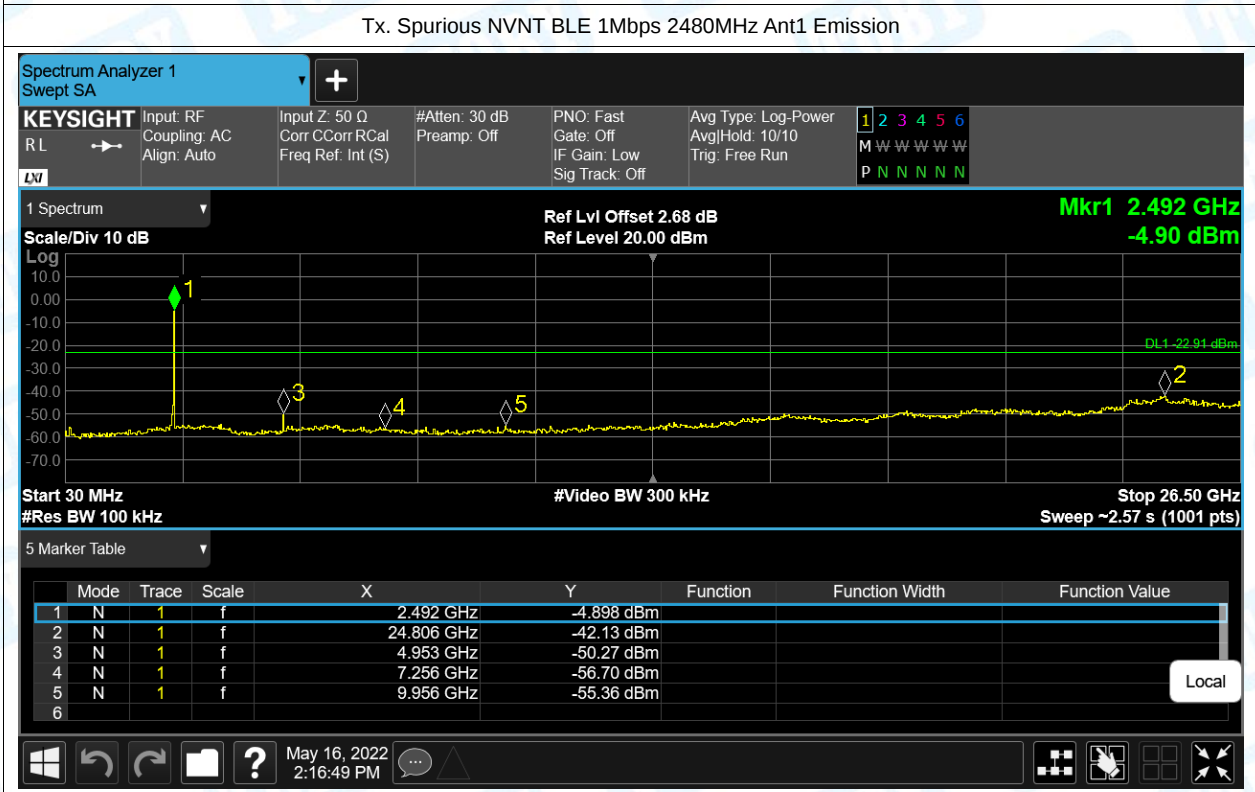
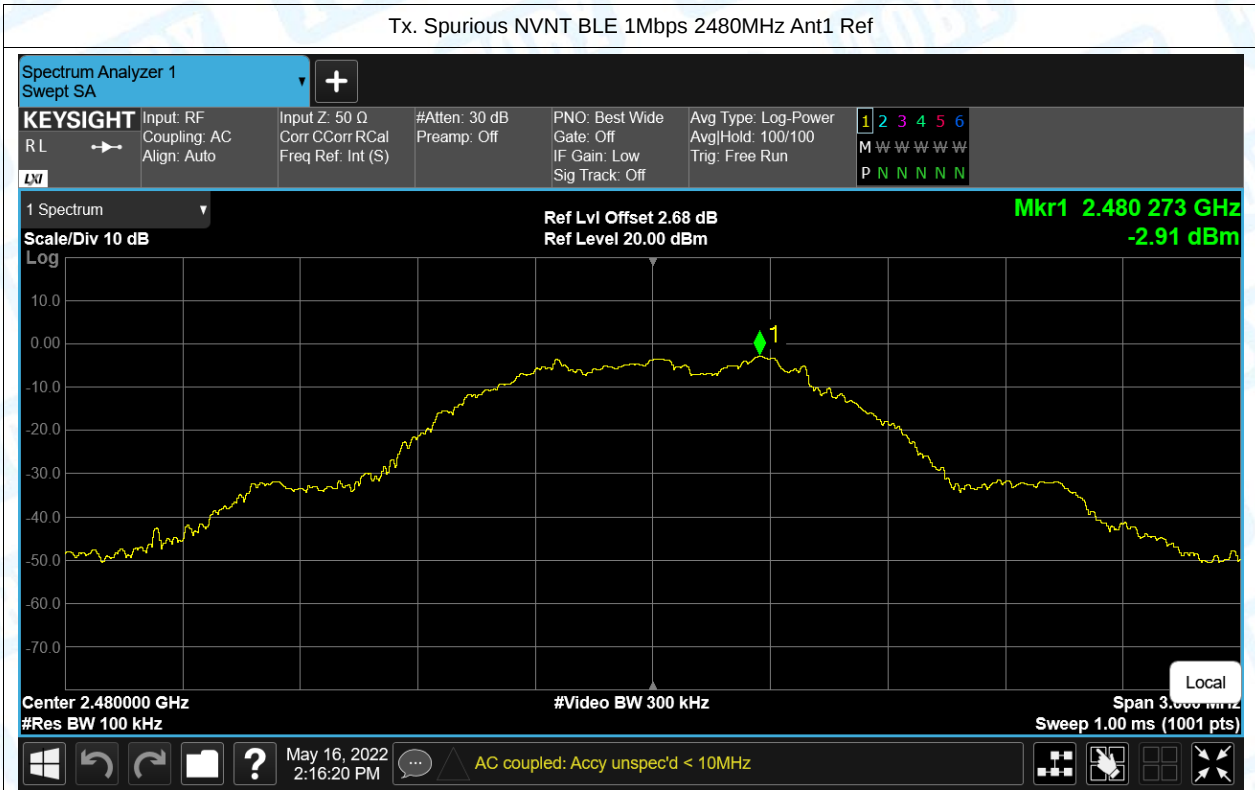


Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1Mbps	2402	Ant1	-39.41	-20	Pass
NVNT	BLE 1Mbps	2440	Ant1	-38.96	-20	Pass
NVNT	BLE 1Mbps	2480	Ant1	-39.23	-20	Pass

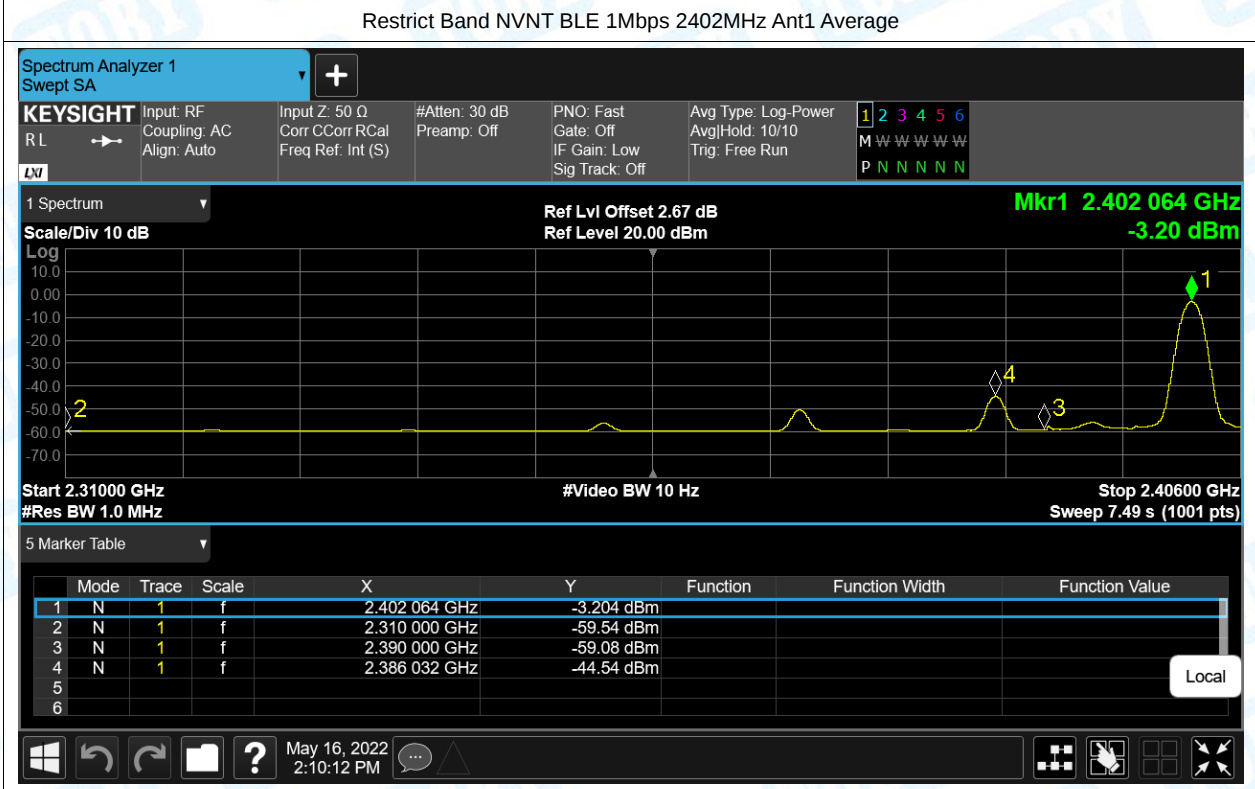
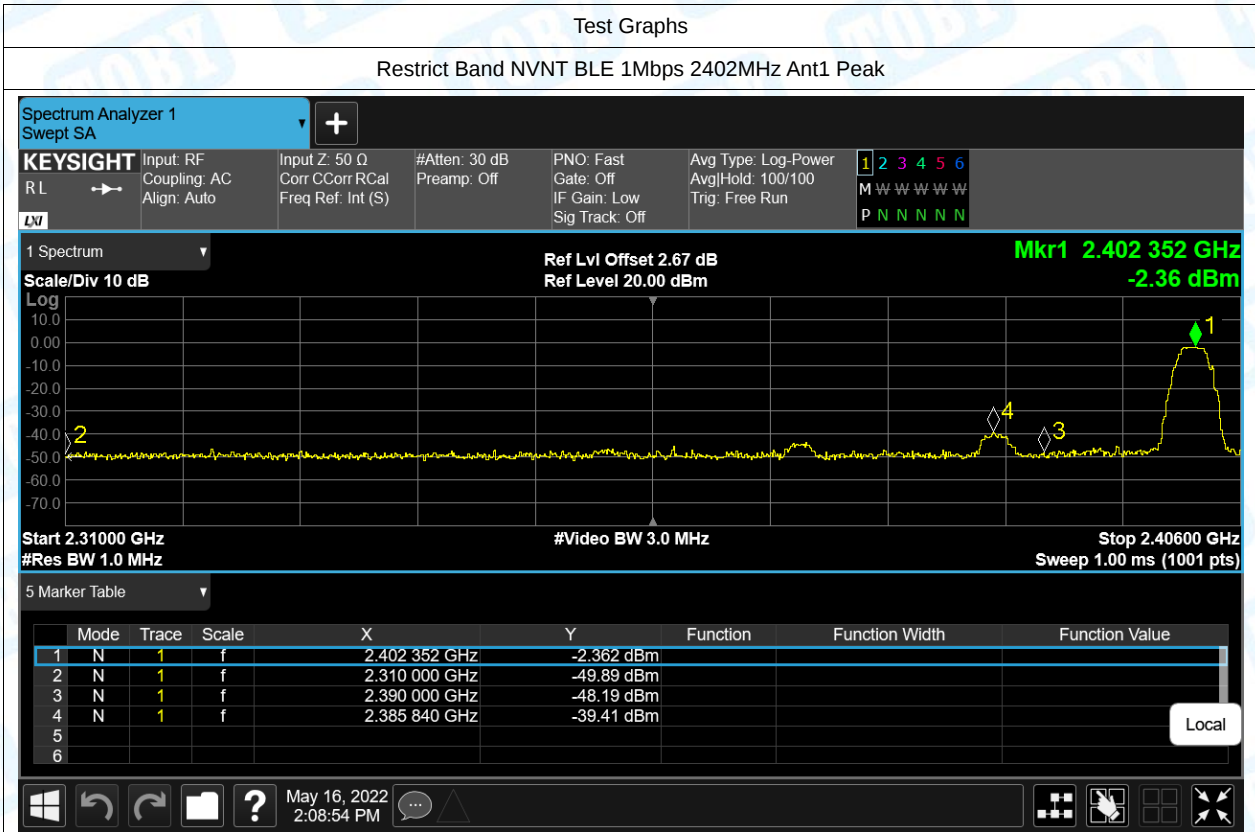




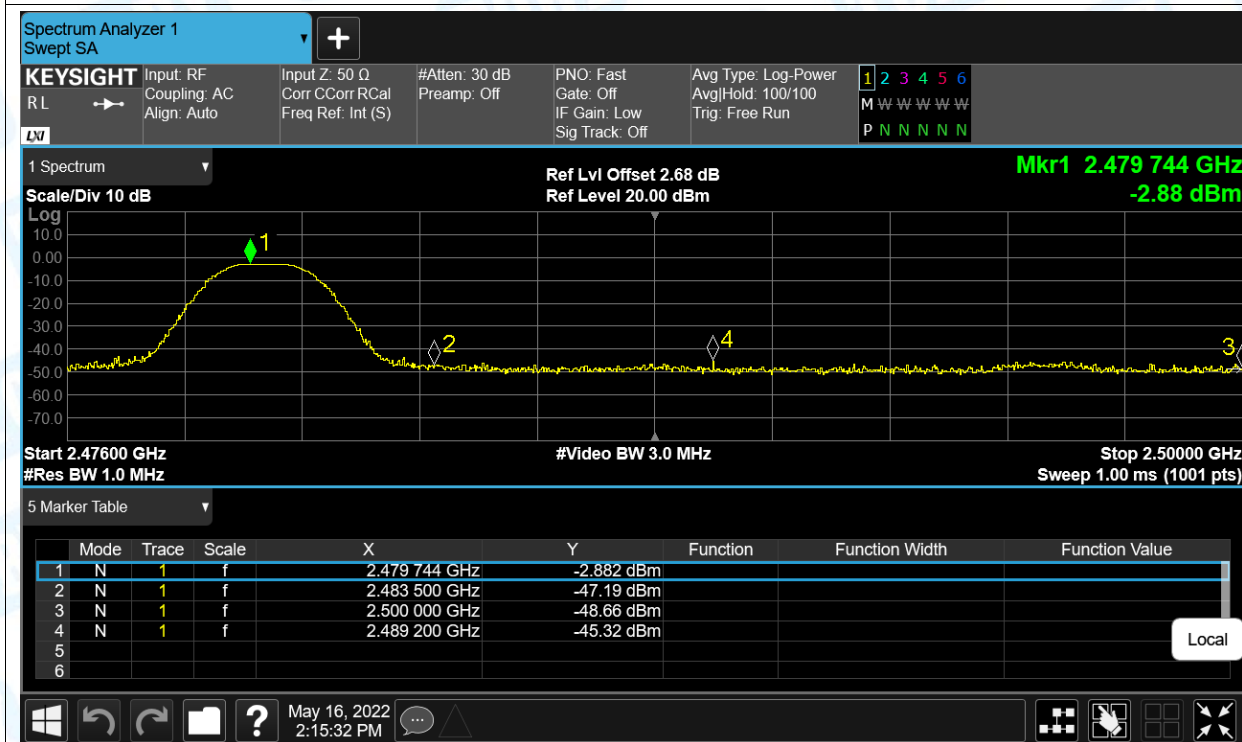


Restrict Band

Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	BLE 1Mbps	2402	Ant1	2310	-49.89	2	47.37	Peak	74	Pass
NVNT	BLE 1Mbps	2402	Ant1	2310	-59.54	2	37.72	Average	54	Pass
NVNT	BLE 1Mbps	2402	Ant1	2385.84	-39.41	2	57.85	Peak	74	Pass
NVNT	BLE 1Mbps	2402	Ant1	2386.032	-44.54	2	52.72	Average	54	Pass
NVNT	BLE 1Mbps	2402	Ant1	2390	-49.79	2	47.47	Peak	74	Pass
NVNT	BLE 1Mbps	2402	Ant1	2390	-59.04	2	38.22	Average	54	Pass
NVNT	BLE 1Mbps	2480	Ant1	2483.5	-47.19	2	50.07	Peak	74	Pass
NVNT	BLE 1Mbps	2480	Ant1	2483.5	-57.81	2	39.45	Average	54	Pass
NVNT	BLE 1Mbps	2480	Ant1	2489.2	-45.32	2	51.94	Peak	74	Pass
NVNT	BLE 1Mbps	2480	Ant1	2496.016	-55.27	2	41.99	Average	54	Pass
NVNT	BLE 1Mbps	2480	Ant1	2500	-48.66	2	48.6	Peak	74	Pass
NVNT	BLE 1Mbps	2480	Ant1	2500	-59.22	2	38.04	Average	54	Pass



Restrict Band NVNT BLE 1Mbps 2480MHz Ant1 Peak



Restrict Band NVNT BLE 1Mbps 2480MHz Ant1 Average

