

RF Test Data for Bluetooth LE

(Conducted Measurements)

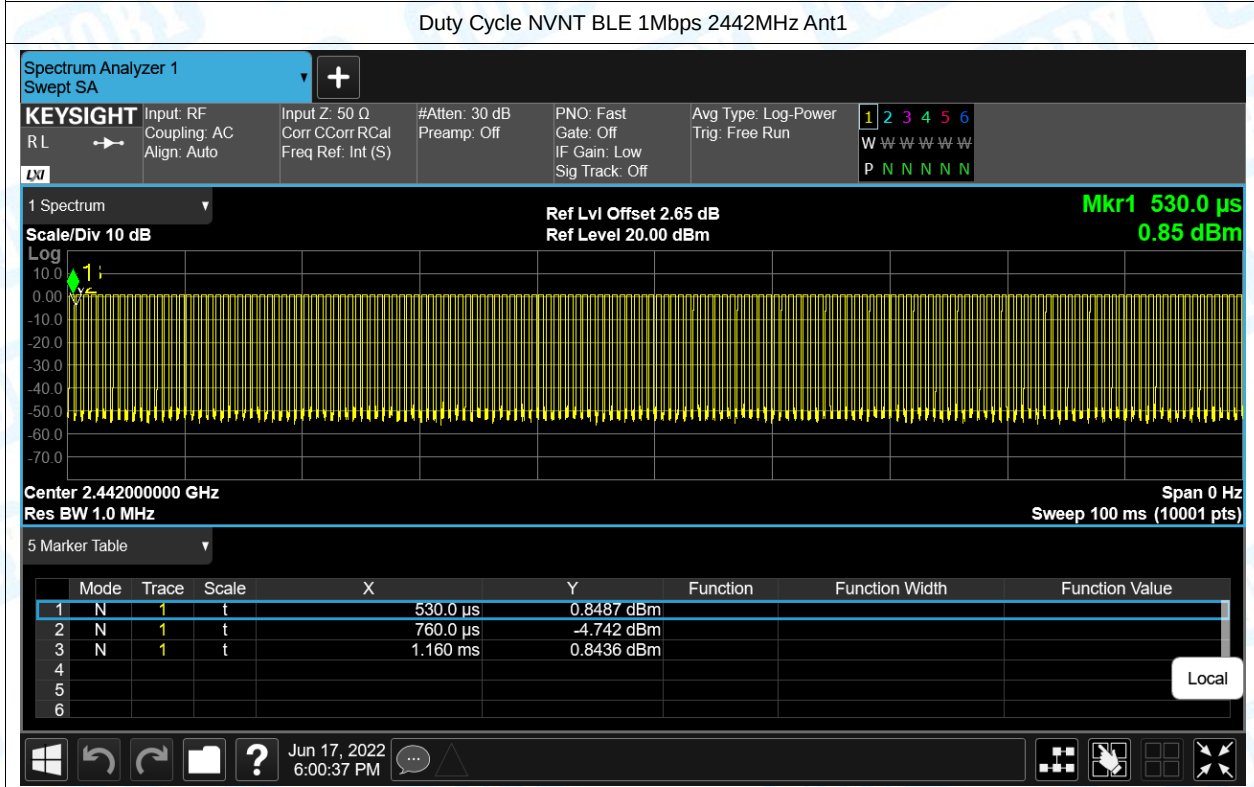
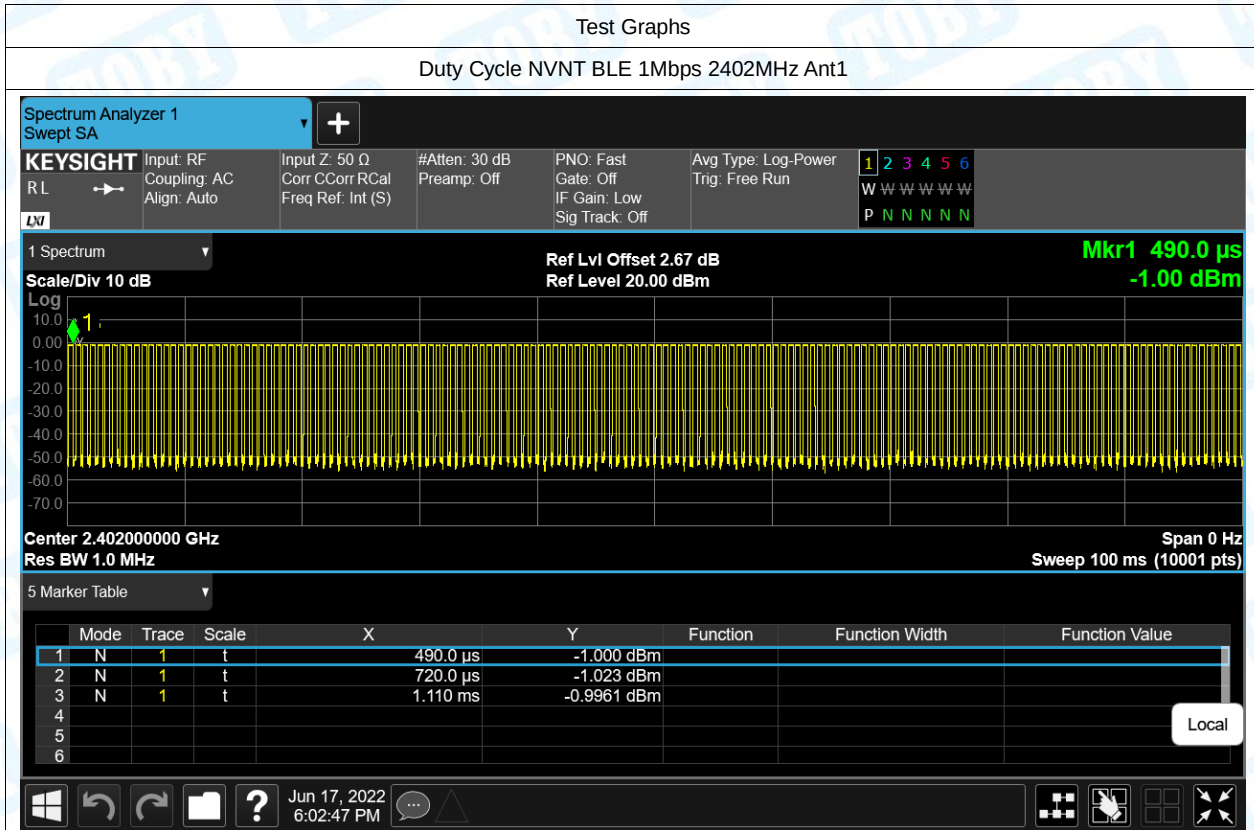
General Description of EUT	
Product Name:	Tablet PC
Test Model:	YQ10S
Sample ID:	202204-0277_03-02-2
Environmental Conditions	
Temperature:	25℃
Relative Humidity:	55%
Test Voltage:	DC 3.8V
Test Engineer:	Huangjianping
Note: For a more detailed features description, please refer to the report TBR-C-202204-0277-151	

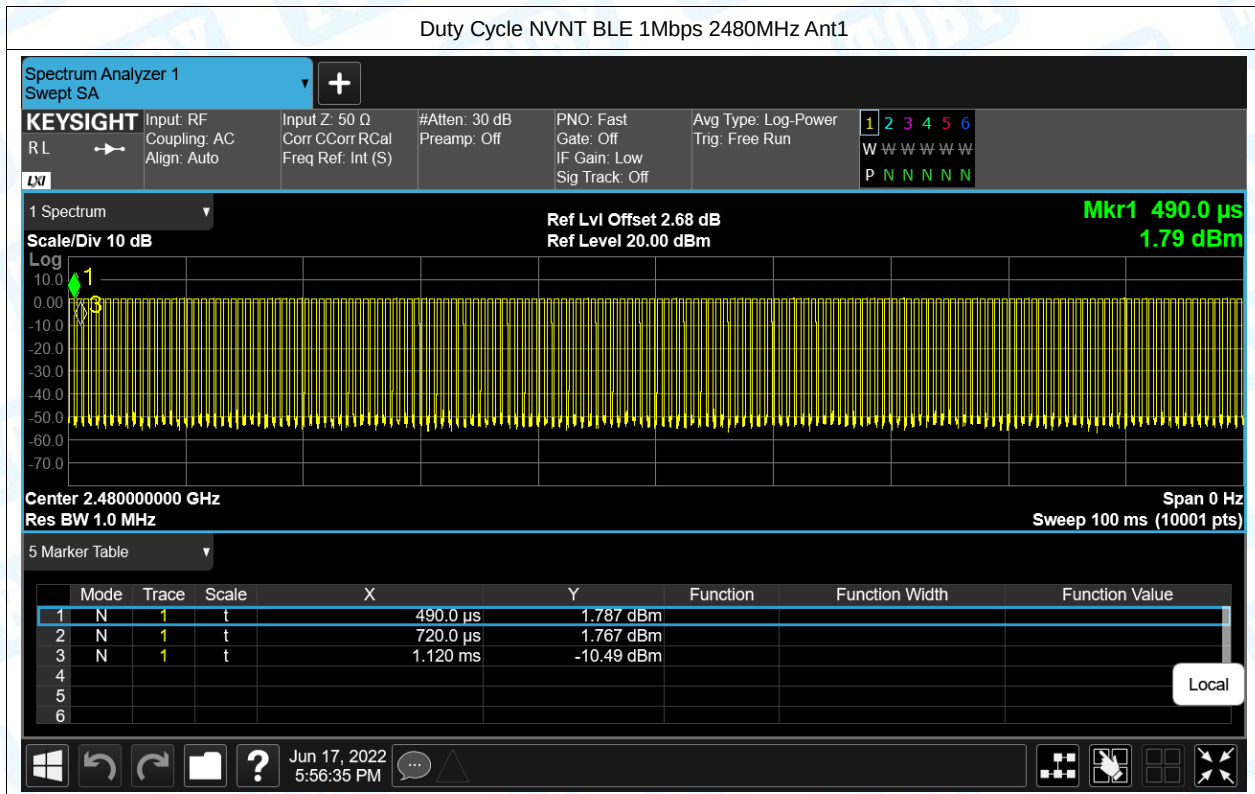
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1. Duty Cycle

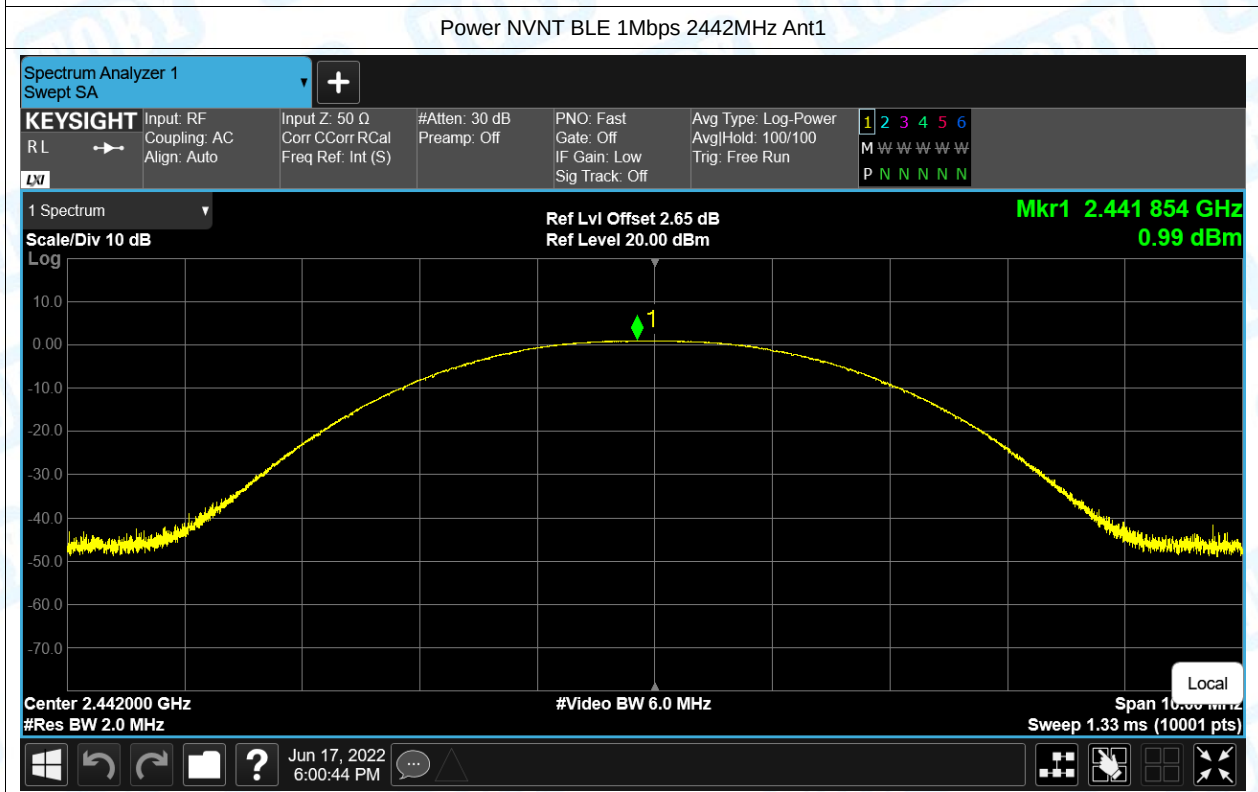
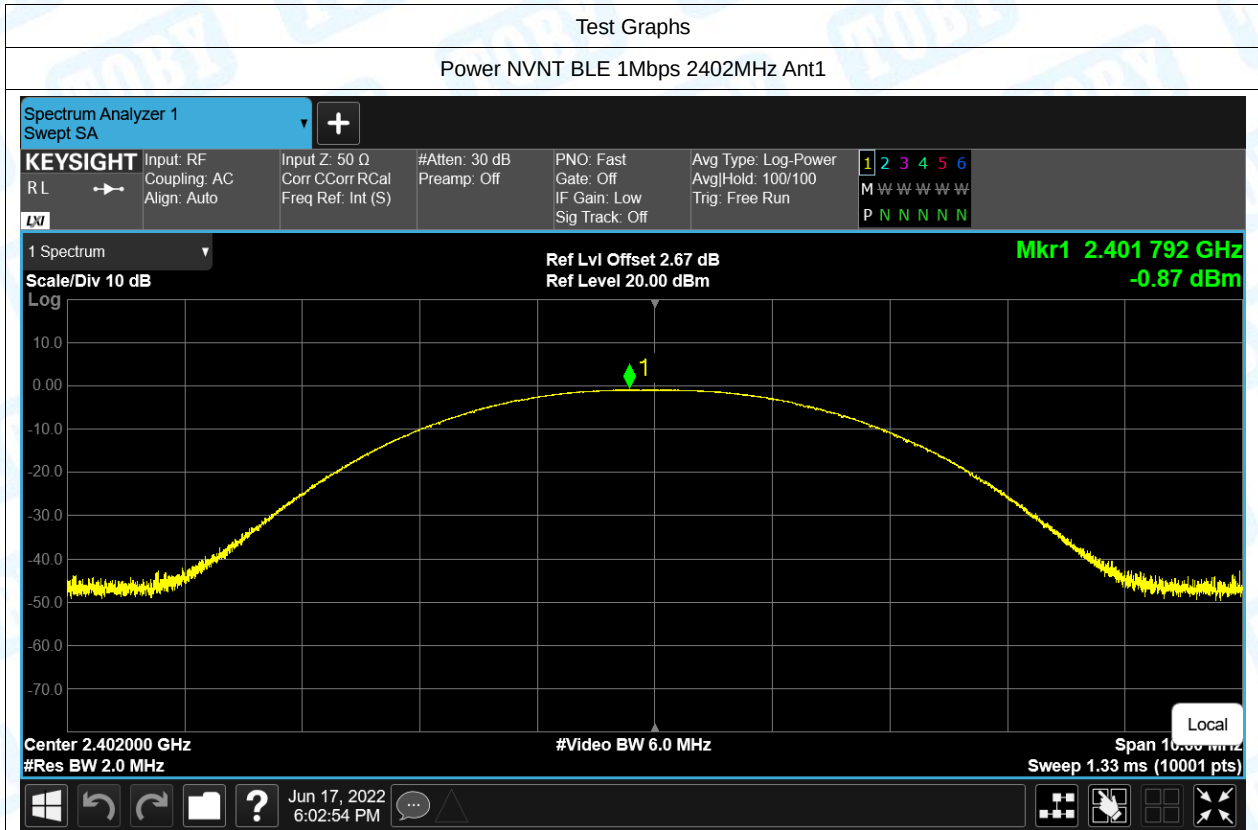
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	BLE 1Mbps	2402	Ant1	63.99	1.94	2.56
NVNT	BLE 1Mbps	2442	Ant1	64.79	1.88	2.5
NVNT	BLE 1Mbps	2480	Ant1	64.79	1.88	2.5

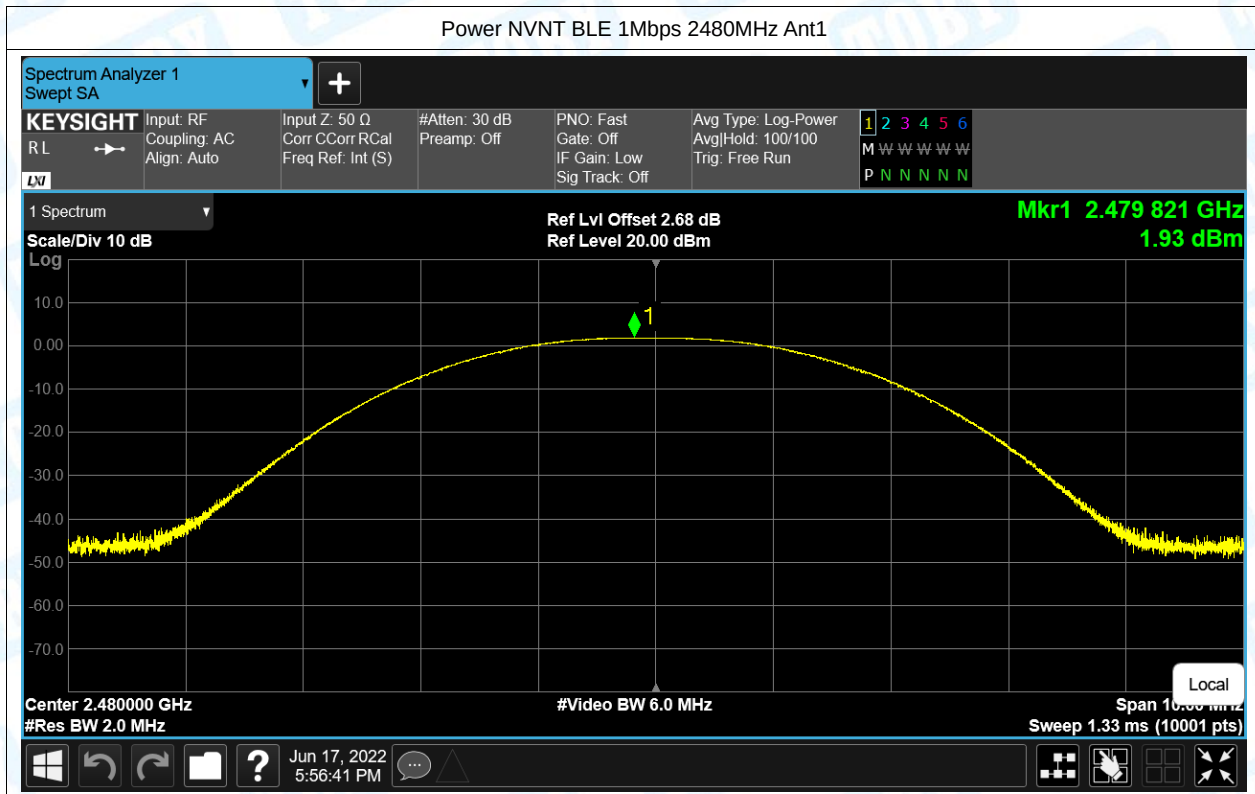




2. Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1Mbps	2402	Ant1	-0.868	30	Pass
NVNT	BLE 1Mbps	2442	Ant1	0.987	30	Pass
NVNT	BLE 1Mbps	2480	Ant1	1.929	30	Pass



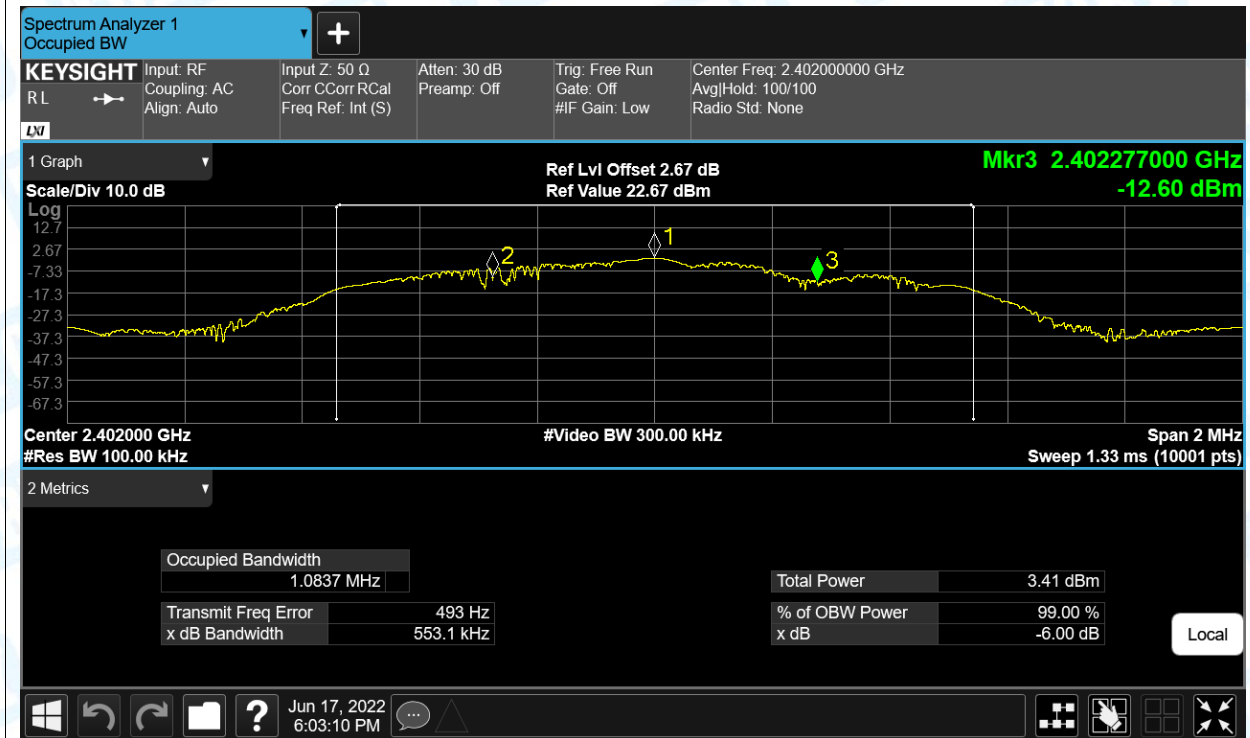


3. -6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1Mbps	2402	Ant1	0.55	0.5	Pass
NVNT	BLE 1Mbps	2442	Ant1	0.54	0.5	Pass
NVNT	BLE 1Mbps	2480	Ant1	0.55	0.5	Pass

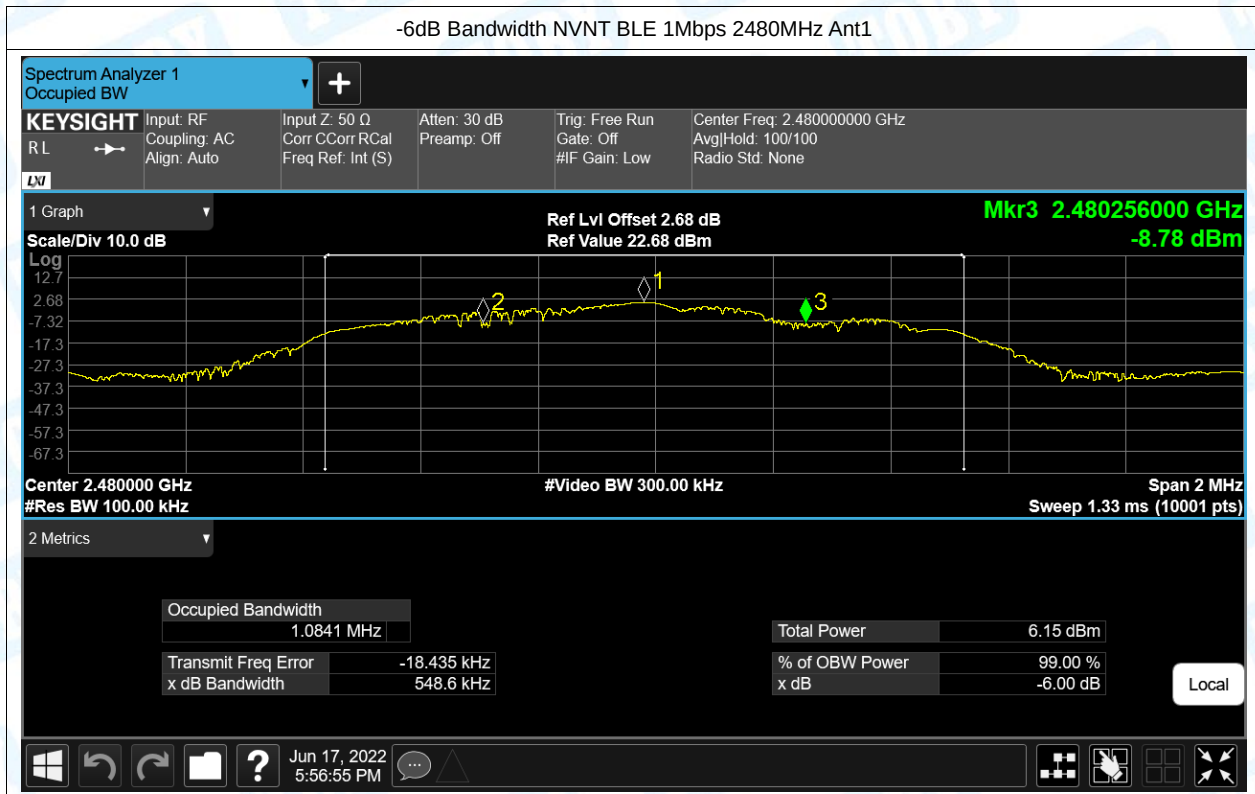
Test Graphs

-6dB Bandwidth NVNT BLE 1Mbps 2402MHz Ant1



-6dB Bandwidth NVNT BLE 1Mbps 2442MHz Ant1



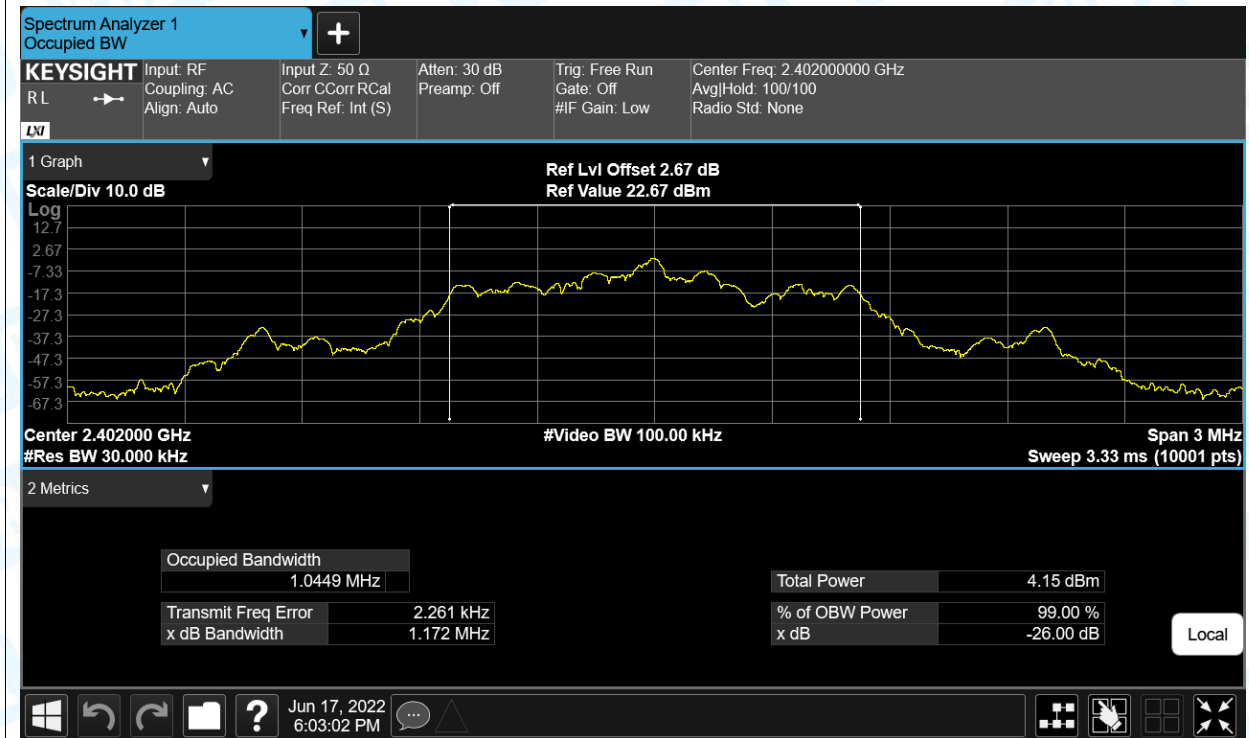


4. Occupied Channel Bandwidth

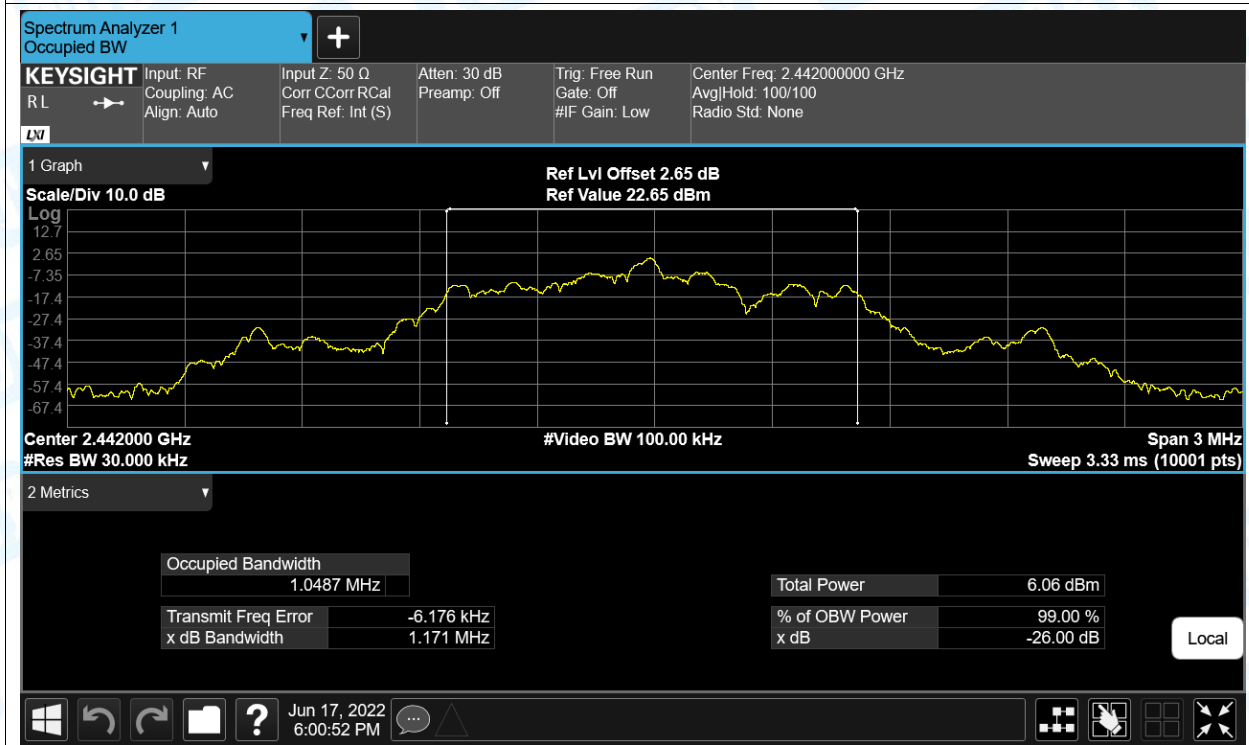
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	BLE 1Mbps	2402	Ant1	1.045
NVNT	BLE 1Mbps	2442	Ant1	1.049
NVNT	BLE 1Mbps	2480	Ant1	1.051

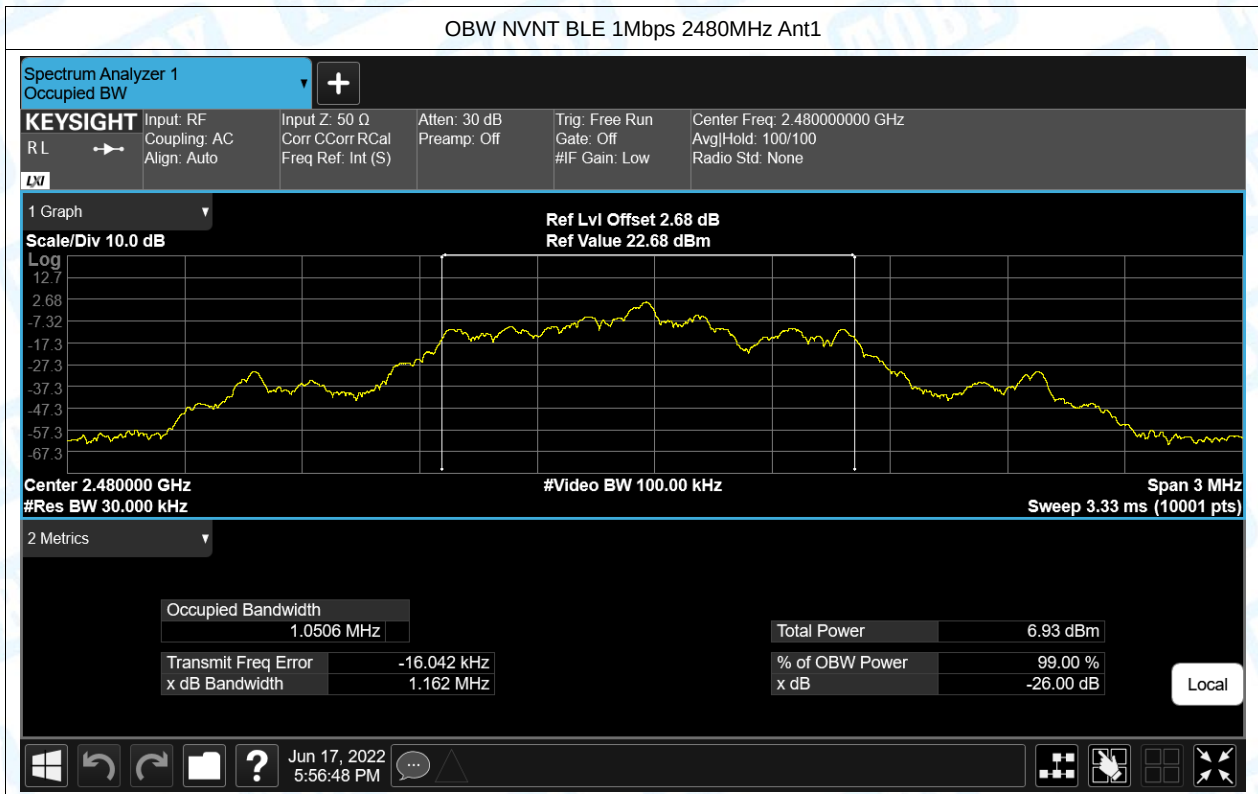
Test Graphs

OBW NVNT BLE 1Mbps 2402MHz Ant1



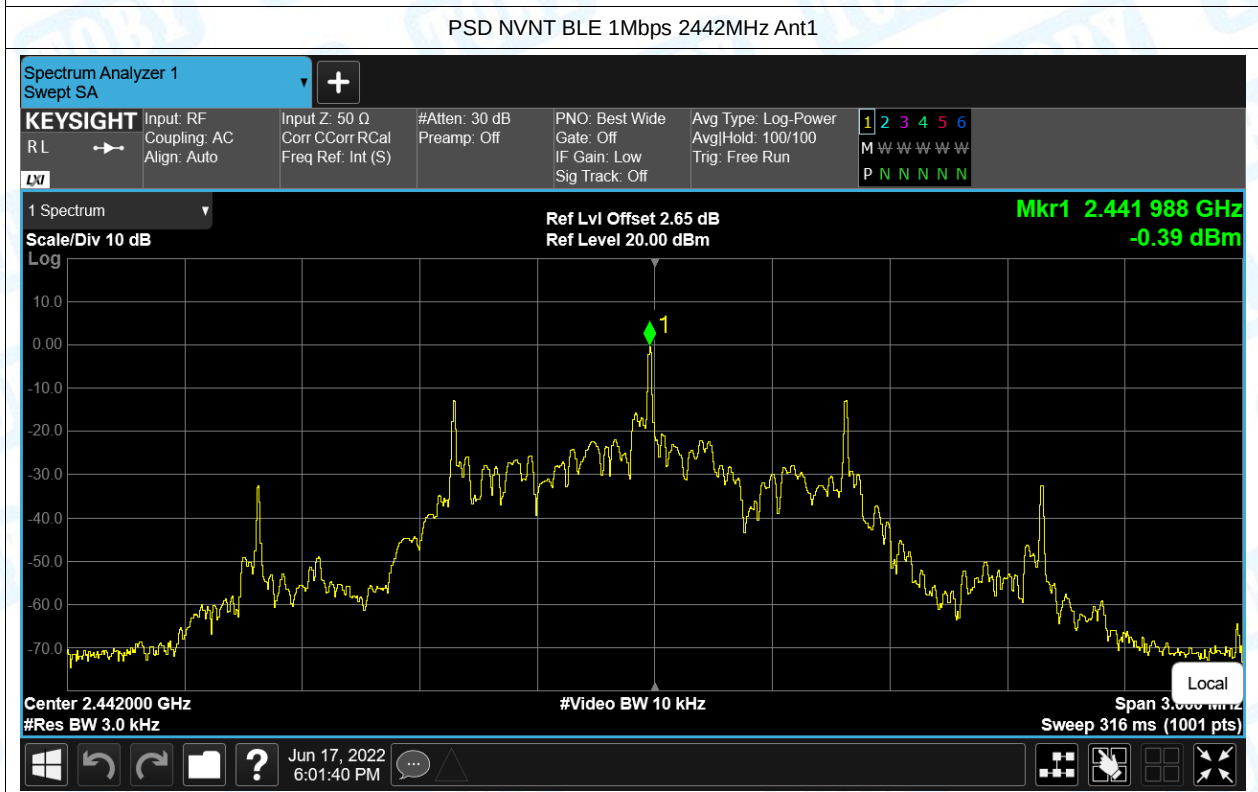
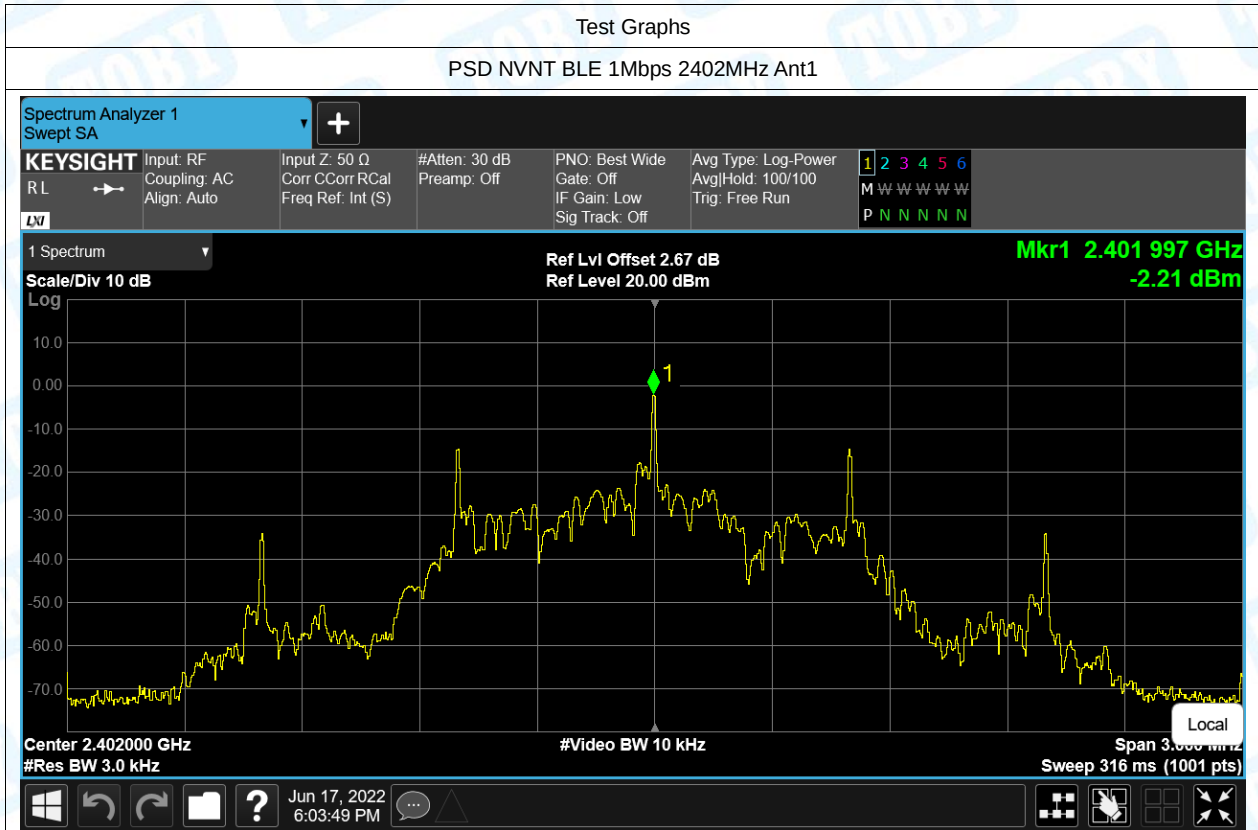
OBW NVNT BLE 1Mbps 2442MHz Ant1

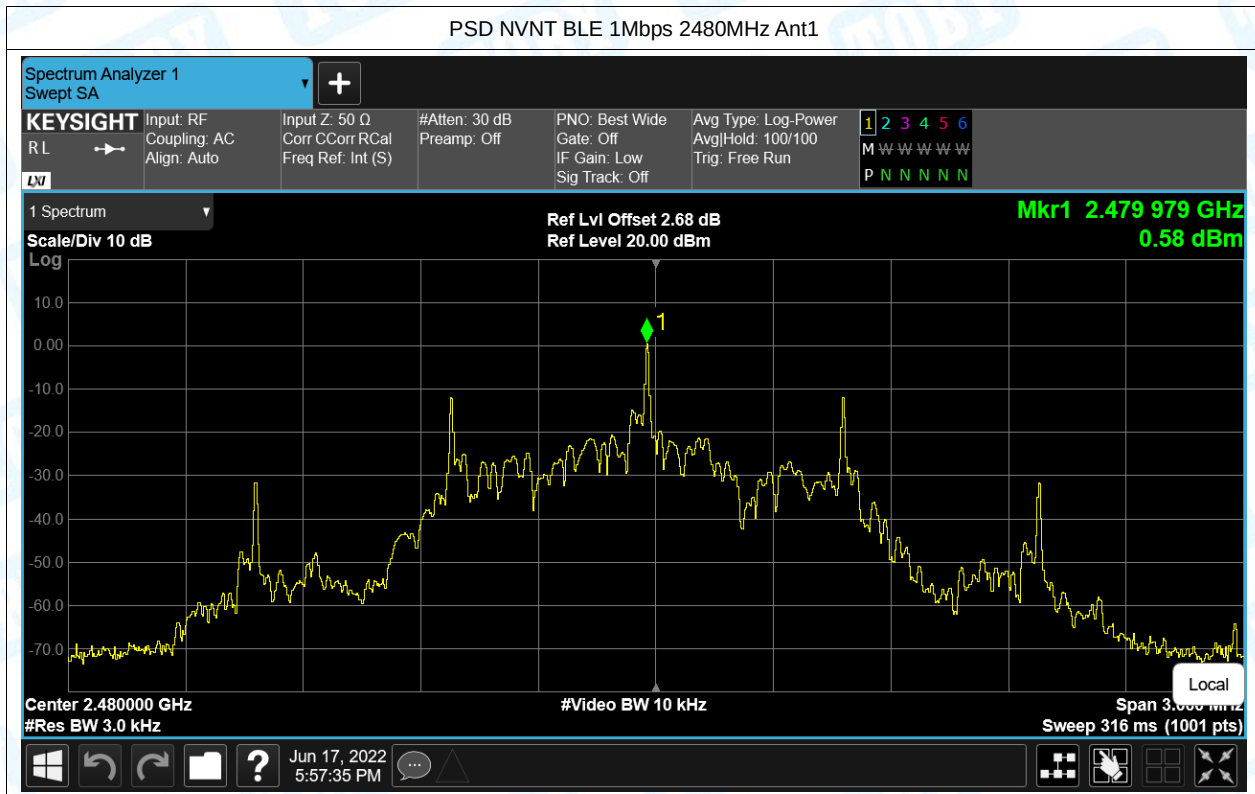




5. Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1Mbps	2402	Ant1	-2.21	8	Pass
NVNT	BLE 1Mbps	2442	Ant1	-0.394	8	Pass
NVNT	BLE 1Mbps	2480	Ant1	0.576	8	Pass



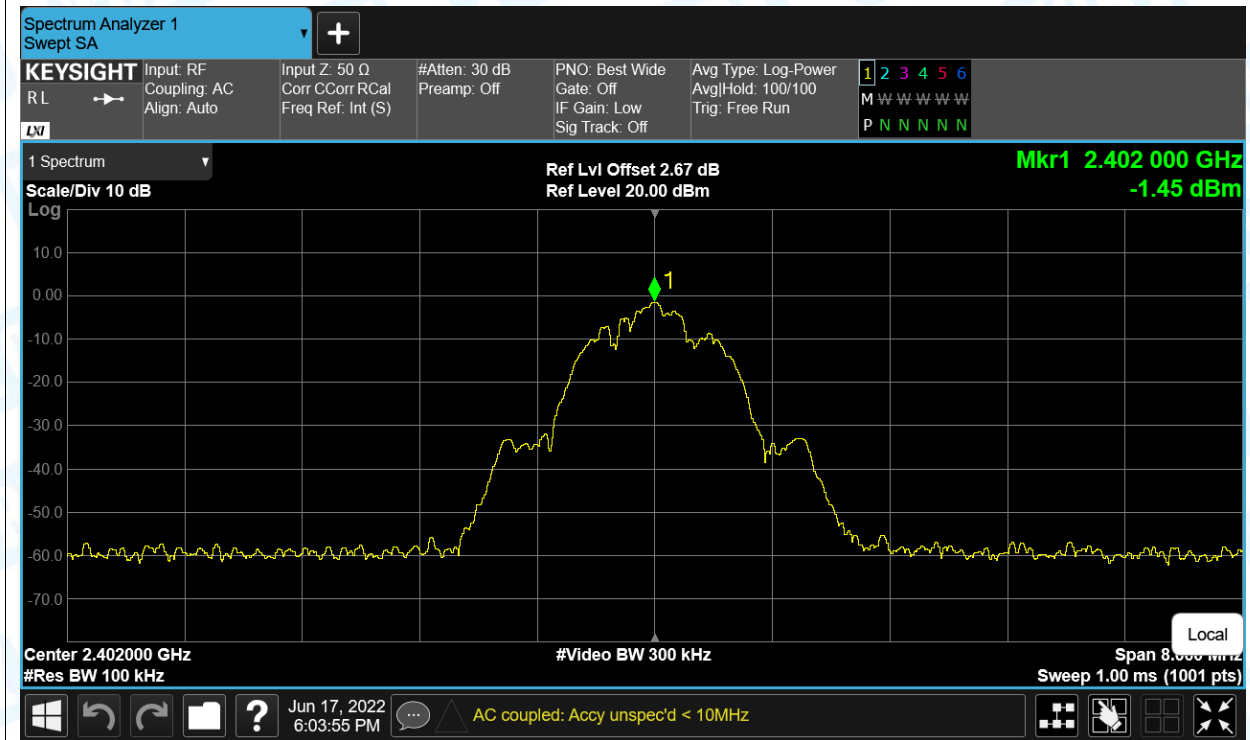


6. Band Edge

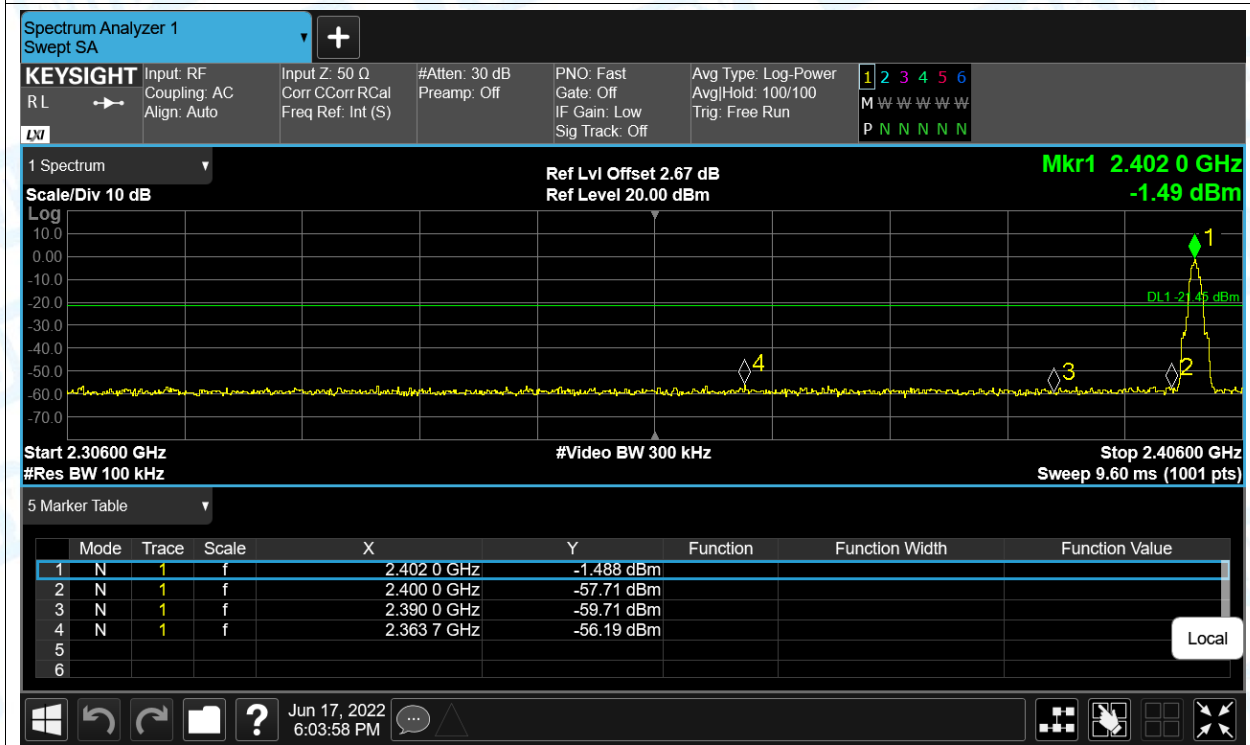
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1Mbps	2402	Ant1	-54.74	-20	Pass
NVNT	BLE 1Mbps	2480	Ant1	-57.47	-20	Pass

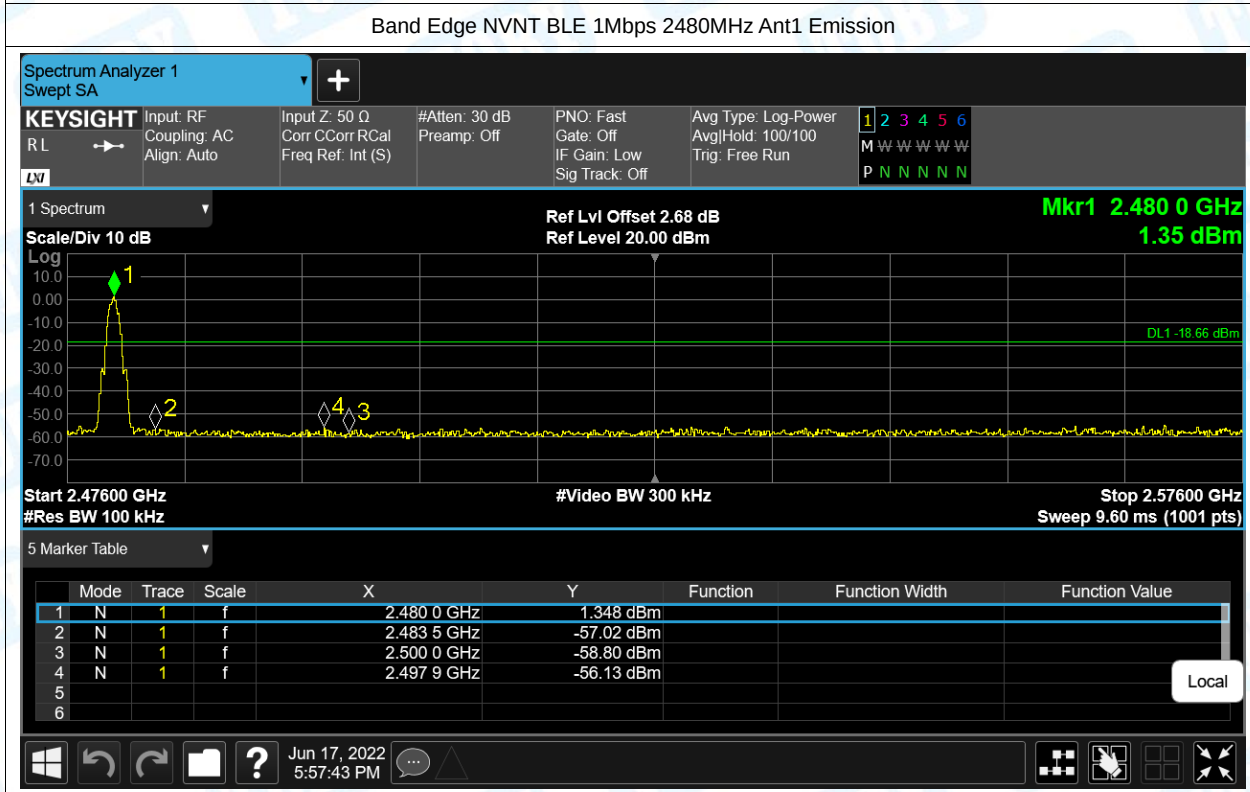
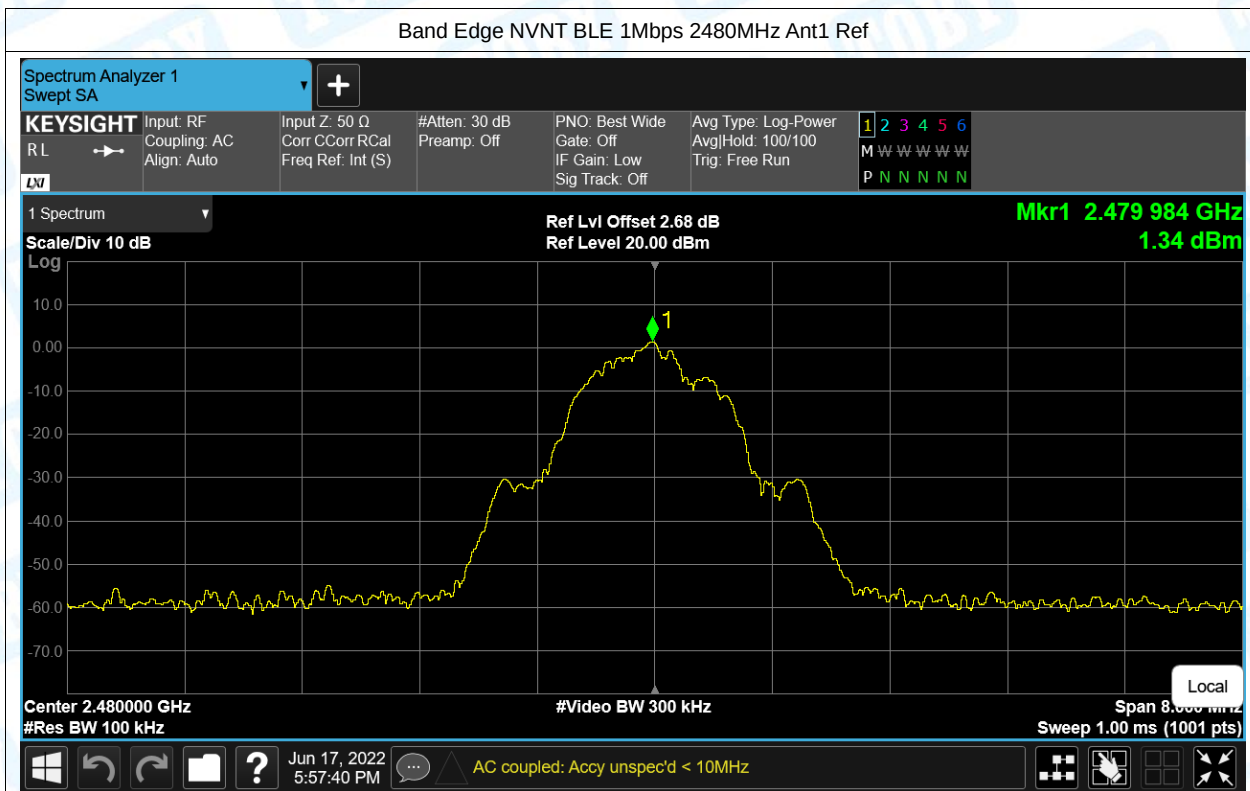
Test Graphs

Band Edge NVNT BLE 1Mbps 2402MHz Ant1 Ref



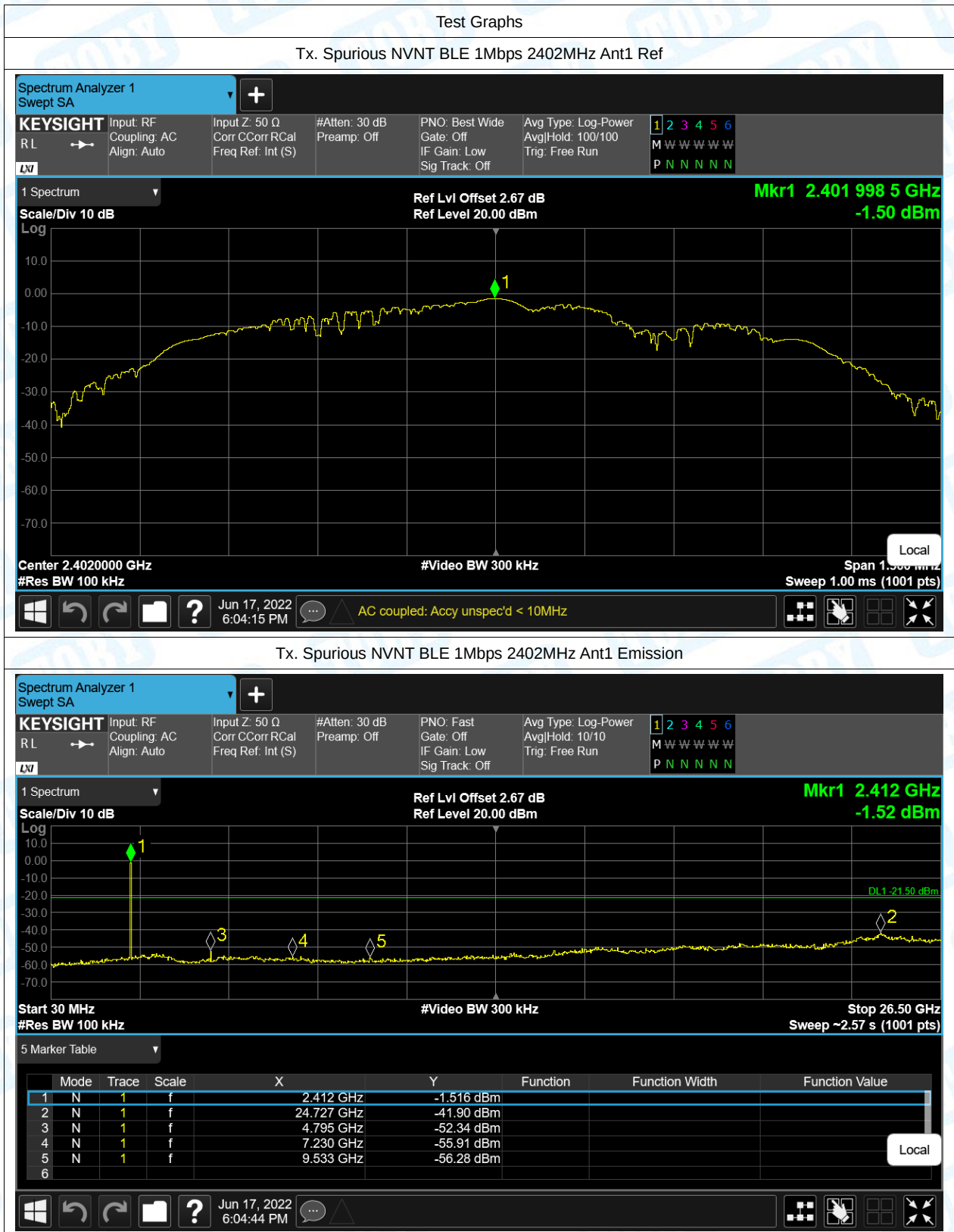
Band Edge NVNT BLE 1Mbps 2402MHz Ant1 Emission



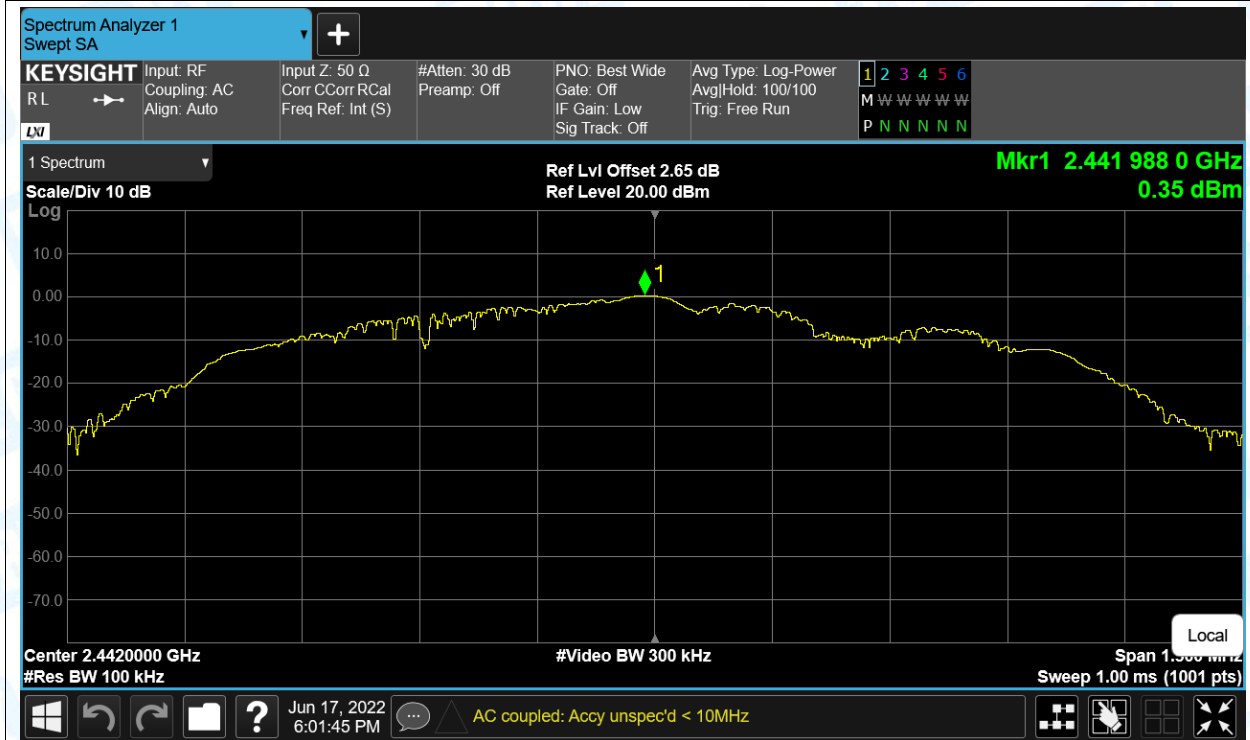


7. Conducted RF Spurious Emission

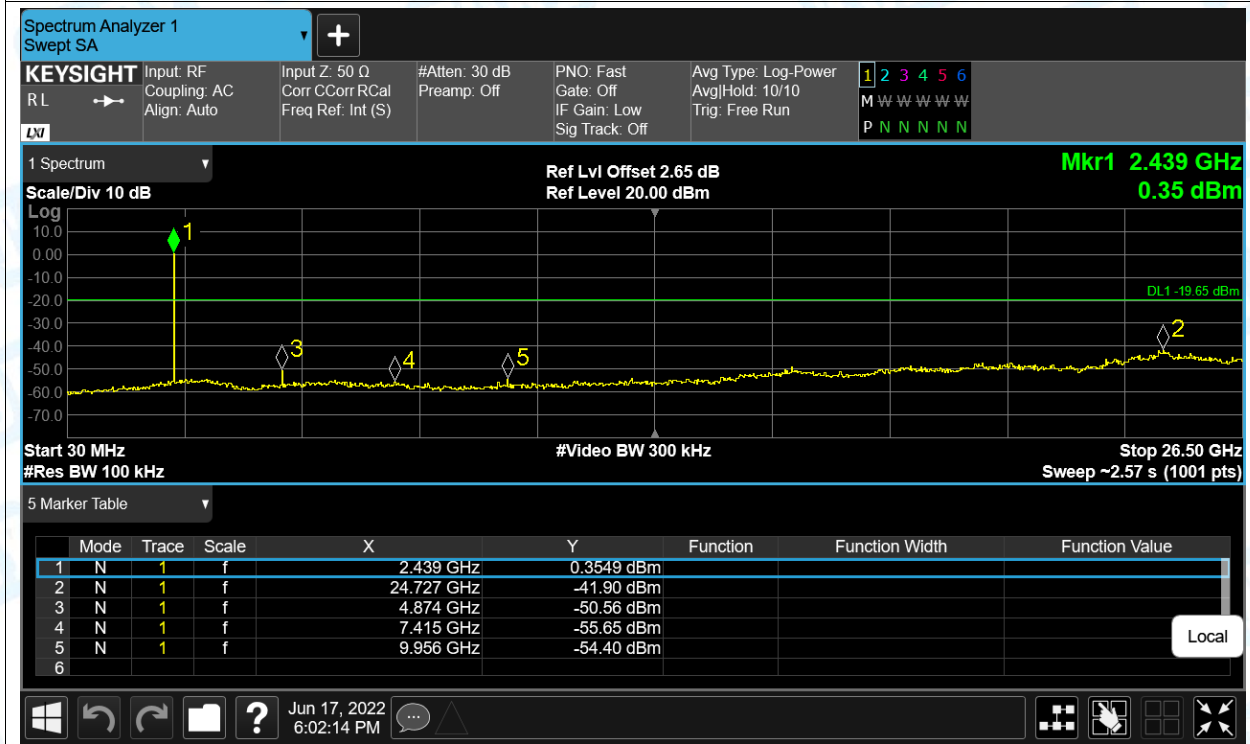
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1Mbps	2402	Ant1	-40.4	-20	Pass
NVNT	BLE 1Mbps	2442	Ant1	-42.25	-20	Pass
NVNT	BLE 1Mbps	2480	Ant1	-41.62	-20	Pass

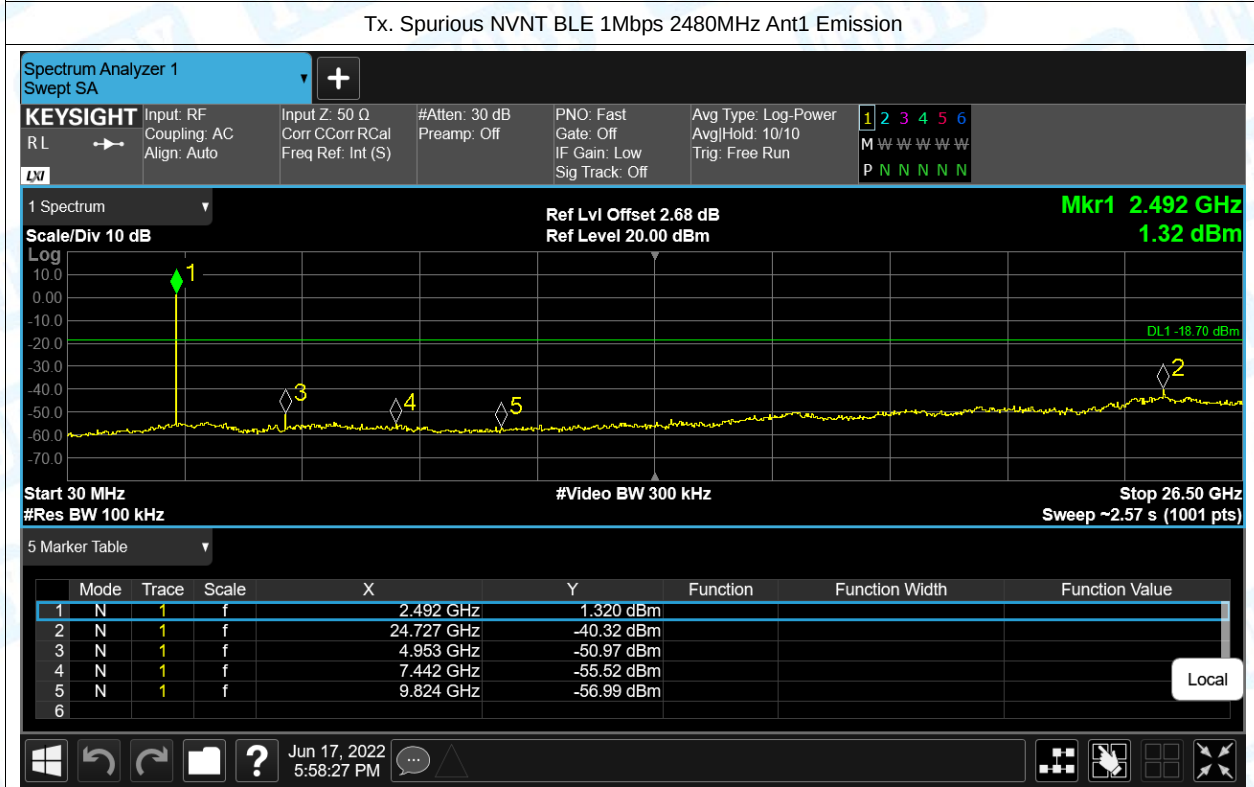
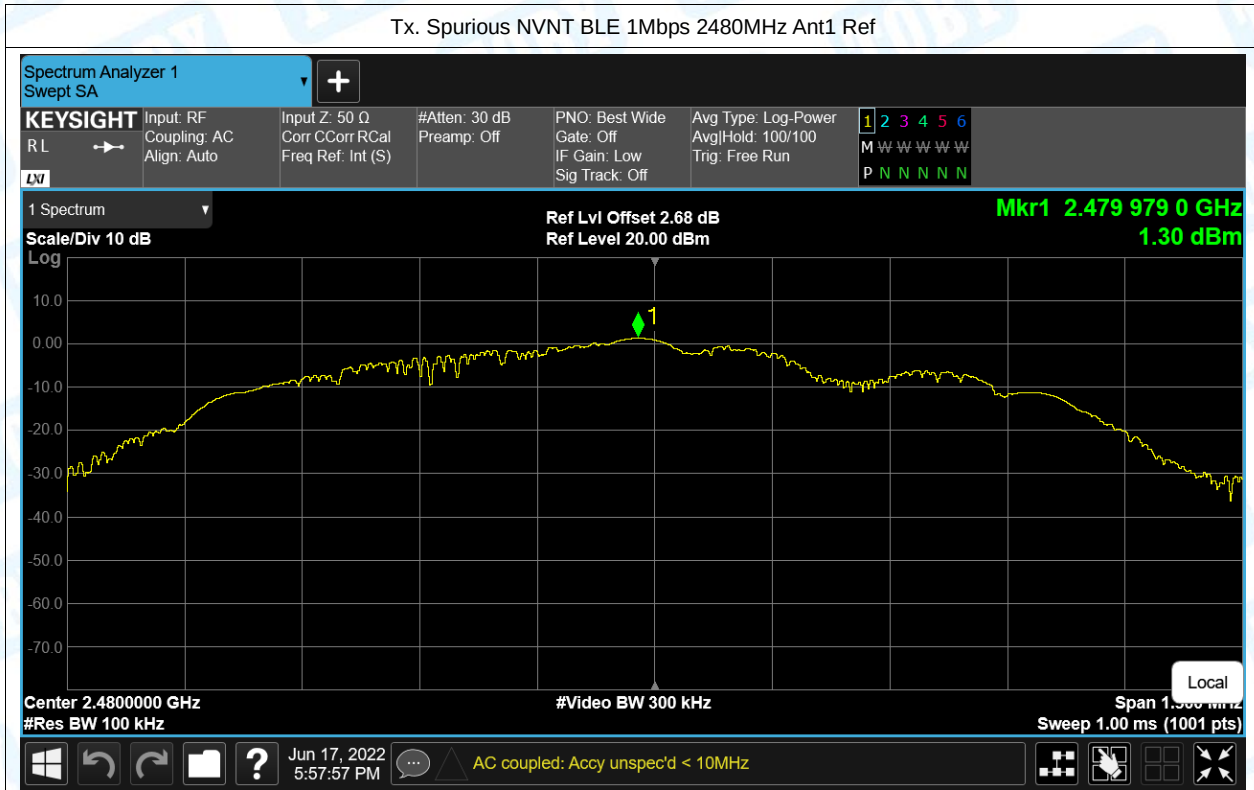


Tx. Spurious NVNT BLE 1Mbps 2442MHz Ant1 Ref



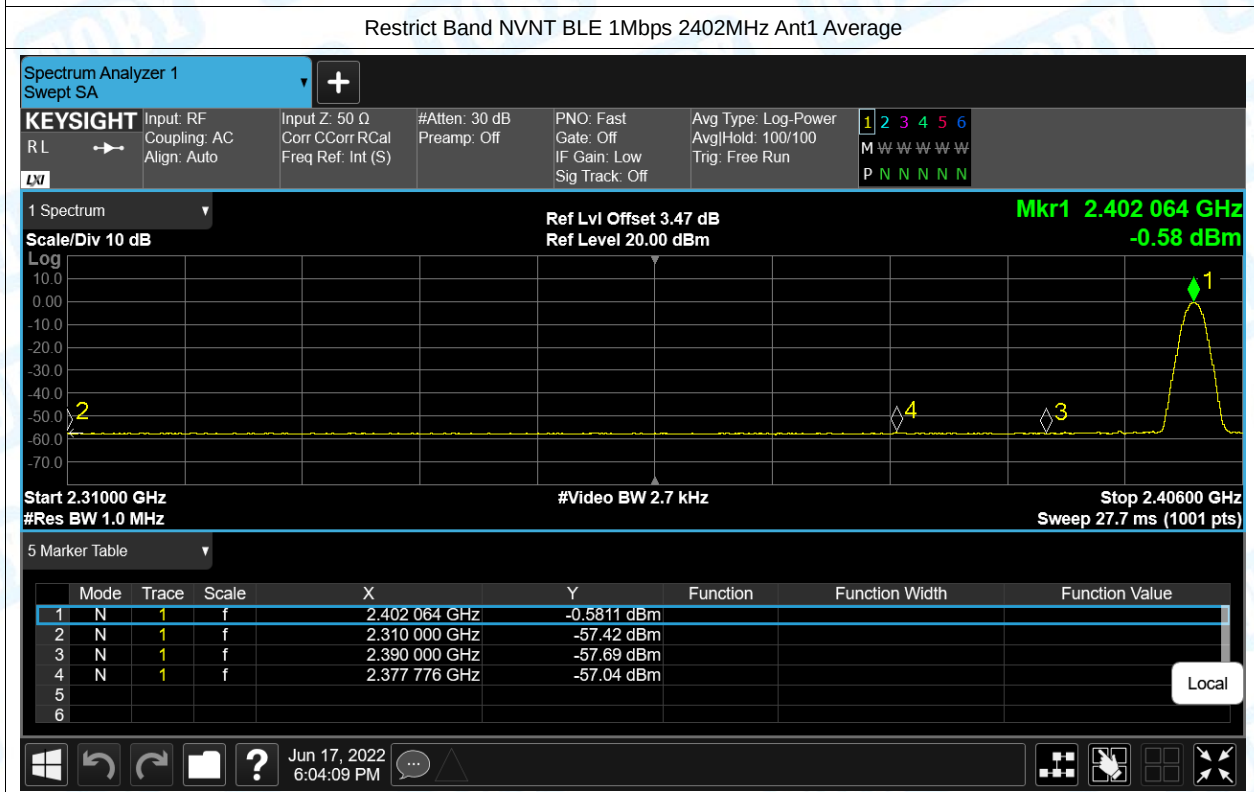
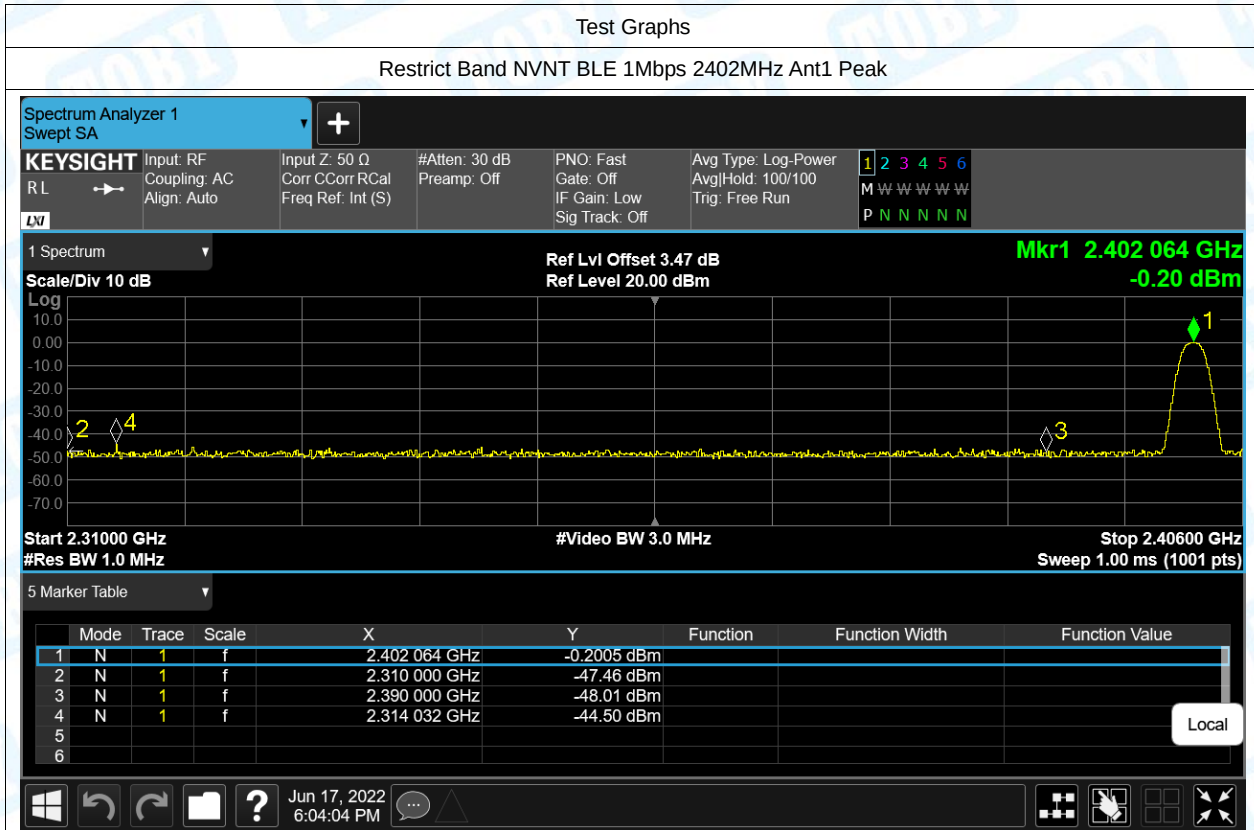
Tx. Spurious NVNT BLE 1Mbps 2442MHz Ant1 Emission



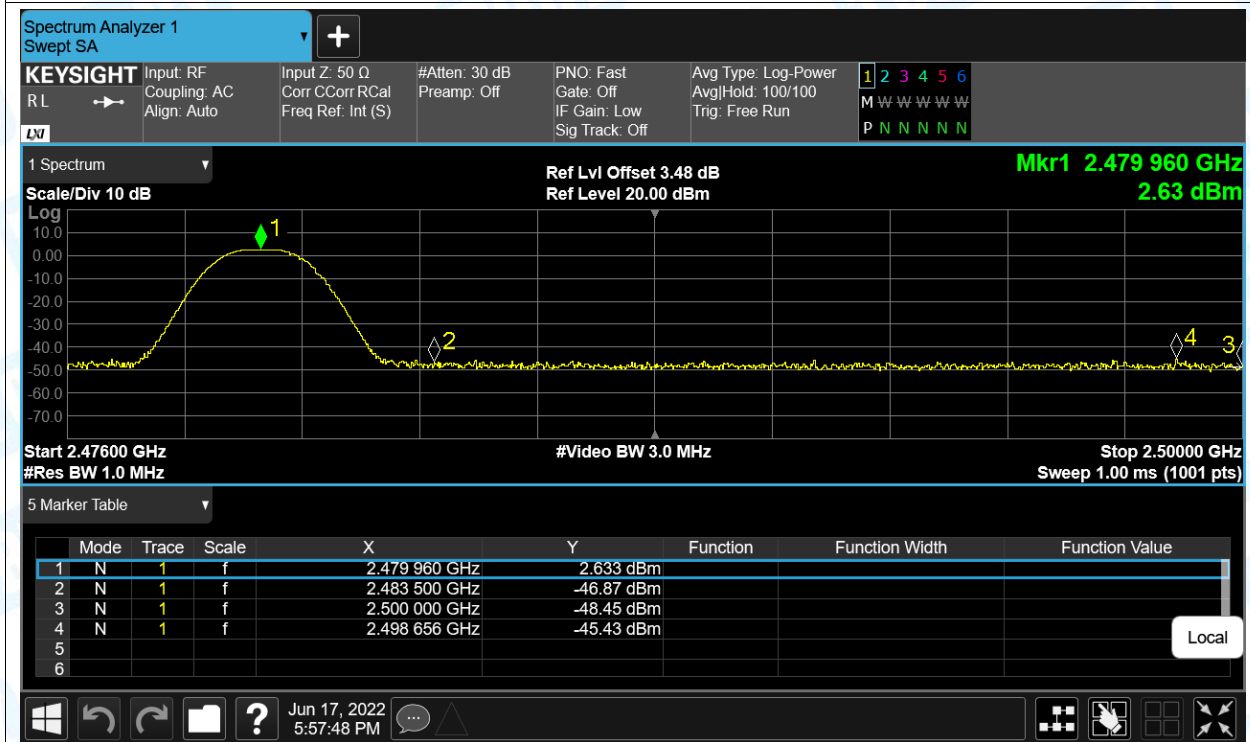


8. Restrict Band

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	-47.46	2	49.8	Peak	74	Pass
NVNT	BLE 1Mbps	2402	Ant1	2310	-57.42	2	39.84	Average	54	Pass
NVNT	BLE 1Mbps	2402	Ant1	2314.032	-44.5	2	52.76	Peak	74	Pass
NVNT	BLE 1Mbps	2402	Ant1	2377.776	-57.04	2	40.22	Average	54	Pass
NVNT	BLE 1Mbps	2402	Ant1	2390	-49.41	2	47.85	Peak	74	Pass
NVNT	BLE 1Mbps	2402	Ant1	2390	-57.7	2	39.56	Average	54	Pass
NVNT	BLE 1Mbps	2480	Ant1	2483.5	-46.87	2	50.39	Peak	74	Pass
NVNT	BLE 1Mbps	2480	Ant1	2483.5	-56.55	2	40.71	Average	54	Pass
NVNT	BLE 1Mbps	2480	Ant1	2498.656	-45.43	2	51.83	Peak	74	Pass
NVNT	BLE 1Mbps	2480	Ant1	2483.56	-56.49	2	40.77	Average	54	Pass
NVNT	BLE 1Mbps	2480	Ant1	2500	-48.45	2	48.81	Peak	74	Pass
NVNT	BLE 1Mbps	2480	Ant1	2500	-57.36	2	39.9	Average	54	Pass



Restrict Band NVNT BLE 1Mbps 2480MHz Ant1 Peak



Restrict Band NVNT BLE 1Mbps 2480MHz Ant1 Average

