

RF Test Data for Bluetooth LE

(Conducted Measurements)

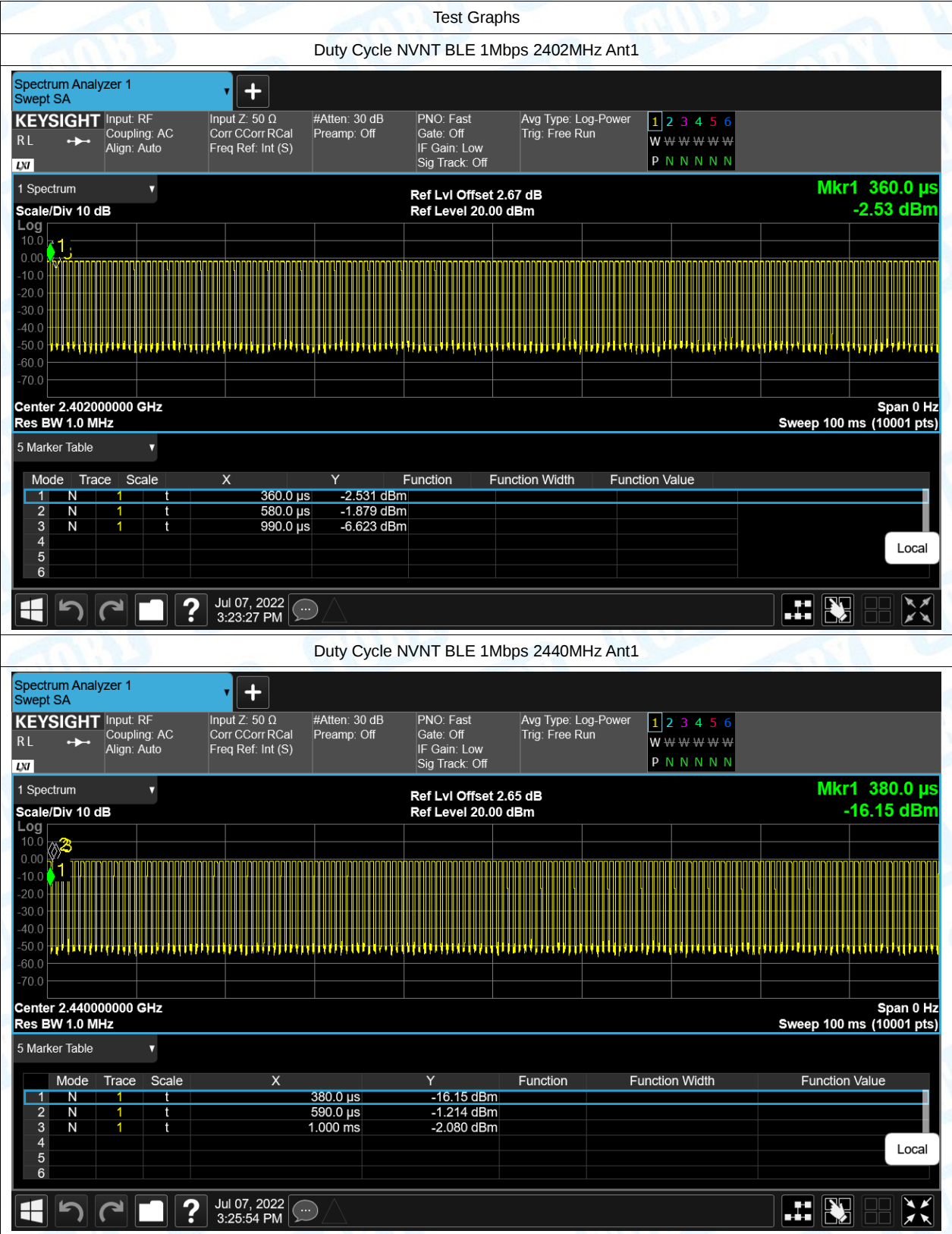
General Description of EUT	
Product Name:	Open Ear Headphones
Test Model:	S300
Sample ID:	RW-C-202204-0412-4-2#
Environmental Conditions	
Temperature:	25℃
Relative Humidity:	55%
Test Voltage:	DC 3.7V
Test Engineer:	Huangjianping
Note: For a more detailed features description, please refer to the report TBR-C-202204-0412-41.	

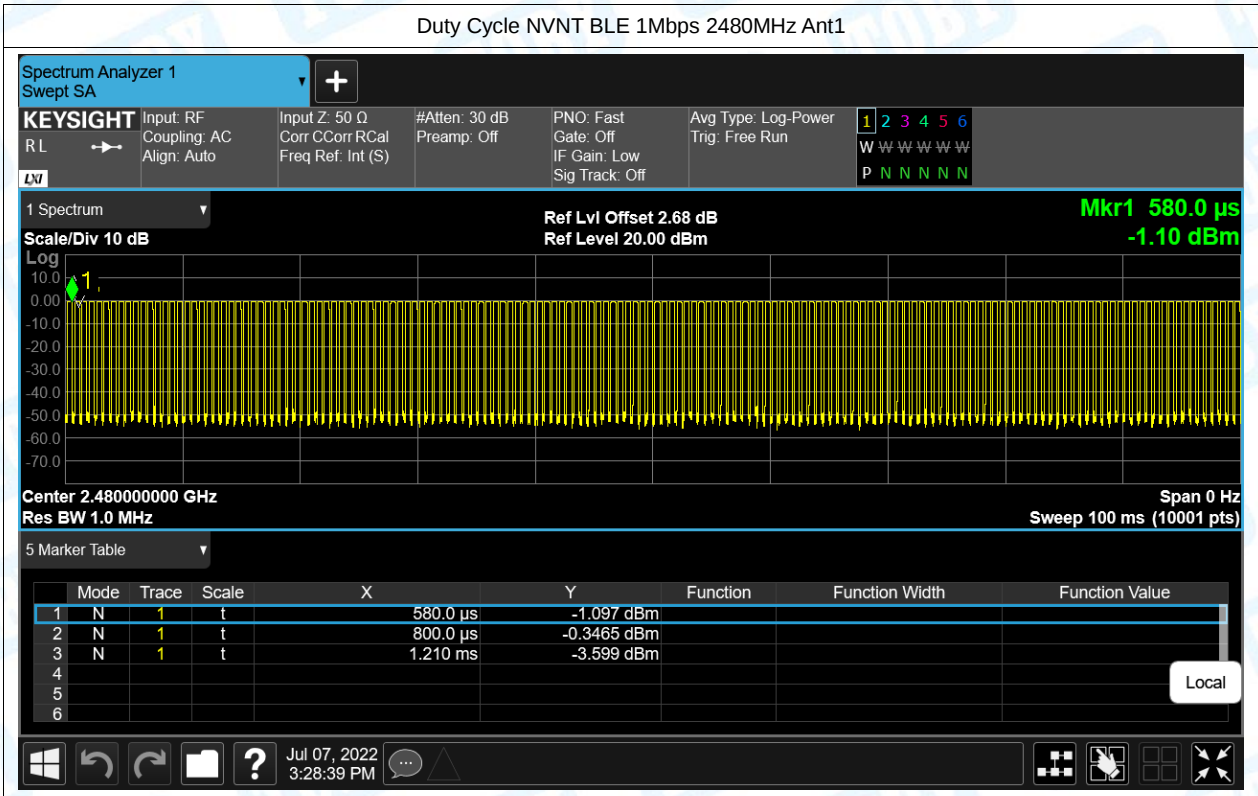
Contents

- 1. Duty Cycle.....3
- 2. Maximum Conducted Output Power6
- 3. -6dB Bandwidth9
- 4. Occupied Channel Bandwidth12
- 5. Maximum Power Spectral Density Level.....15
- 6. Band Edge18
- 7. Conducted RF Spurious Emission21
- 8. Restrict Band25

1. Duty Cycle

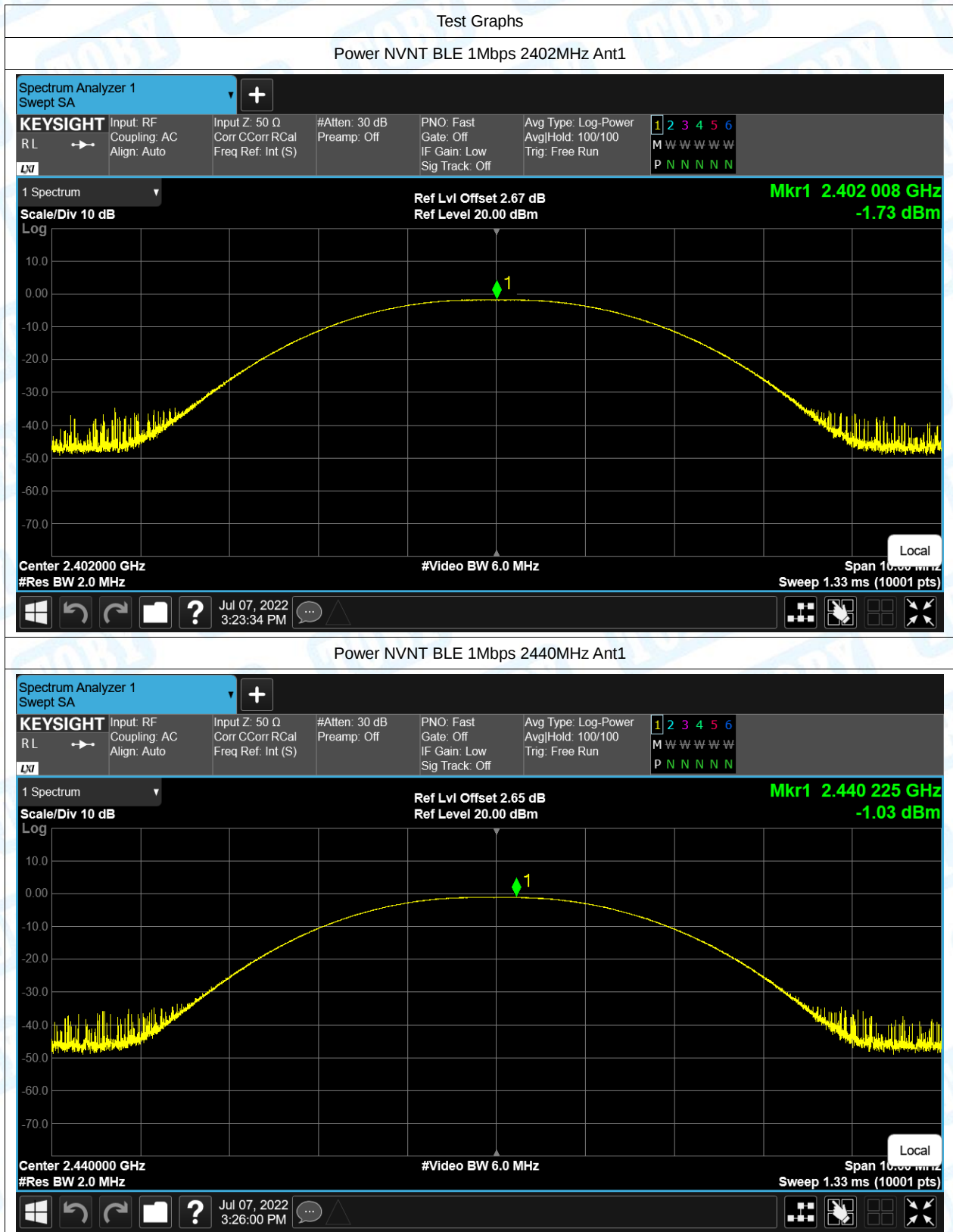
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	BLE 1Mbps	2402	Ant1	67.2	1.73	2.44
NVNT	BLE 1Mbps	2440	Ant1	68	1.67	2.44
NVNT	BLE 1Mbps	2480	Ant1	67.19	1.73	2.44

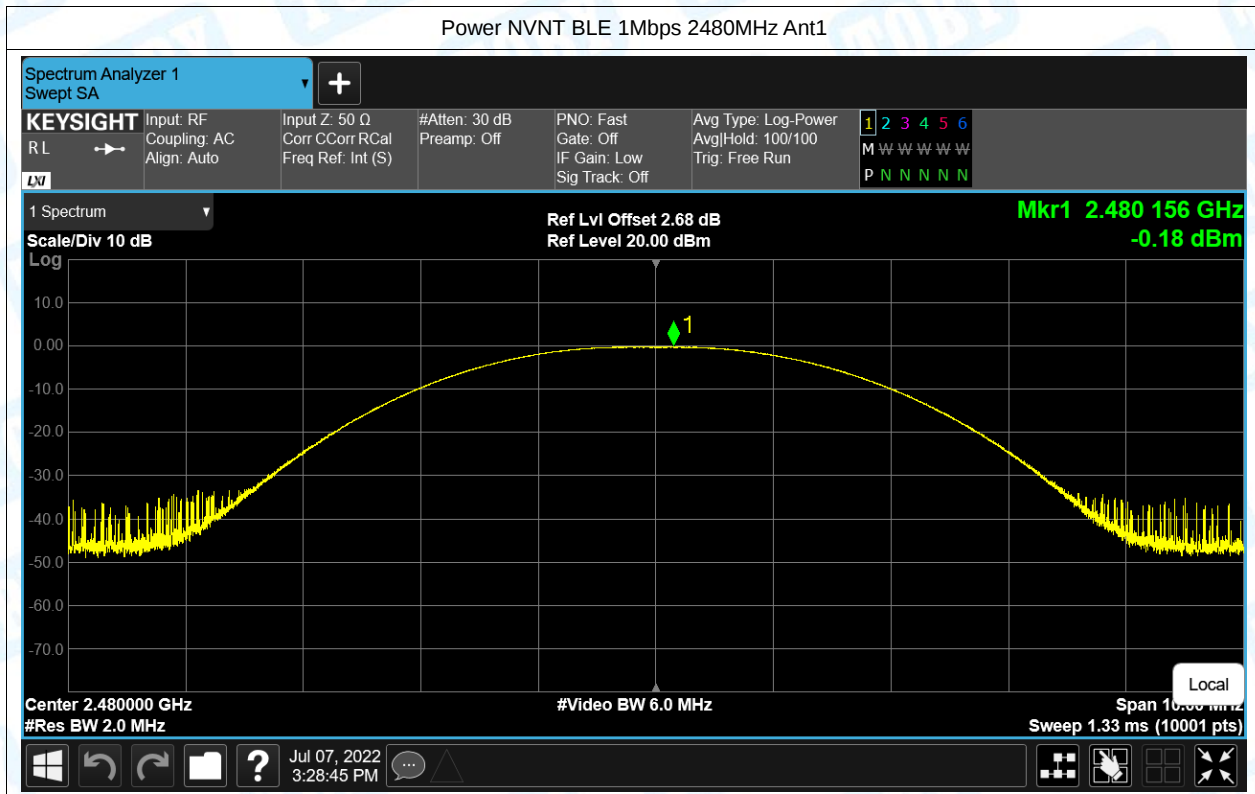




2. Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1Mbps	2402	Ant1	-1.73	30	Pass
NVNT	BLE 1Mbps	2440	Ant1	-1.03	30	Pass
NVNT	BLE 1Mbps	2480	Ant1	-0.18	30	Pass



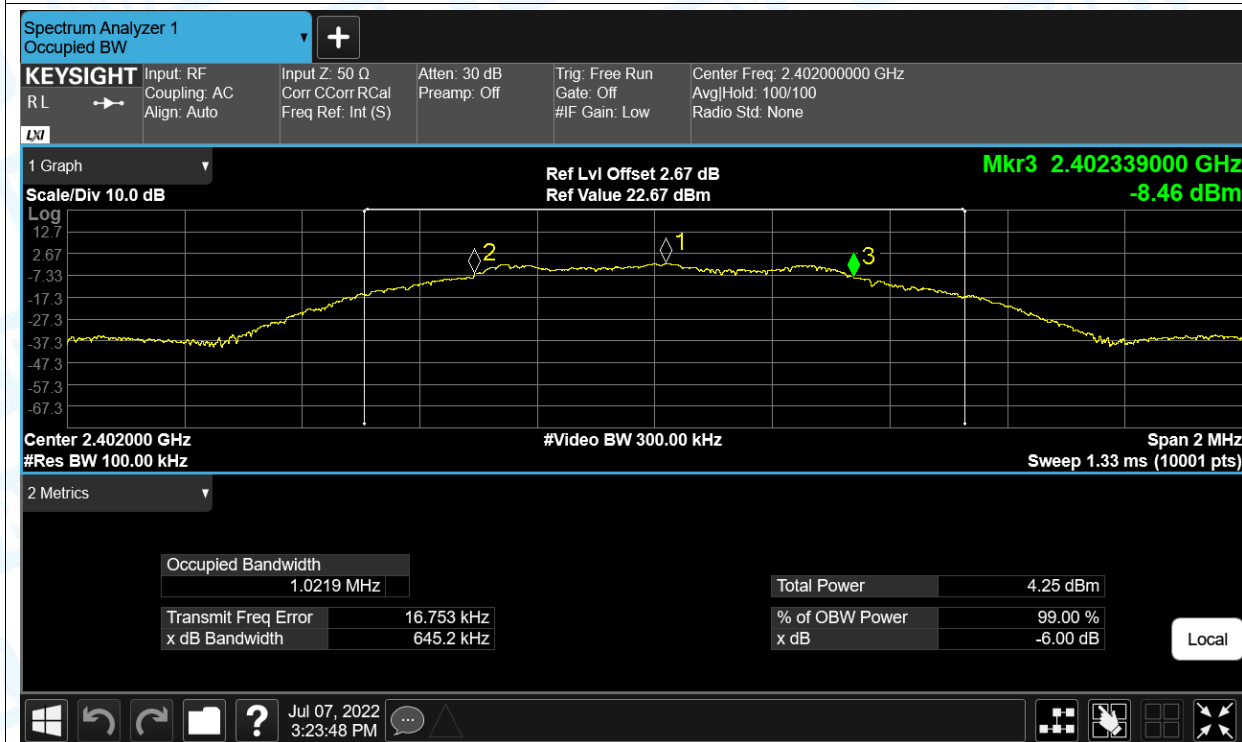


3. -6dB Bandwidth

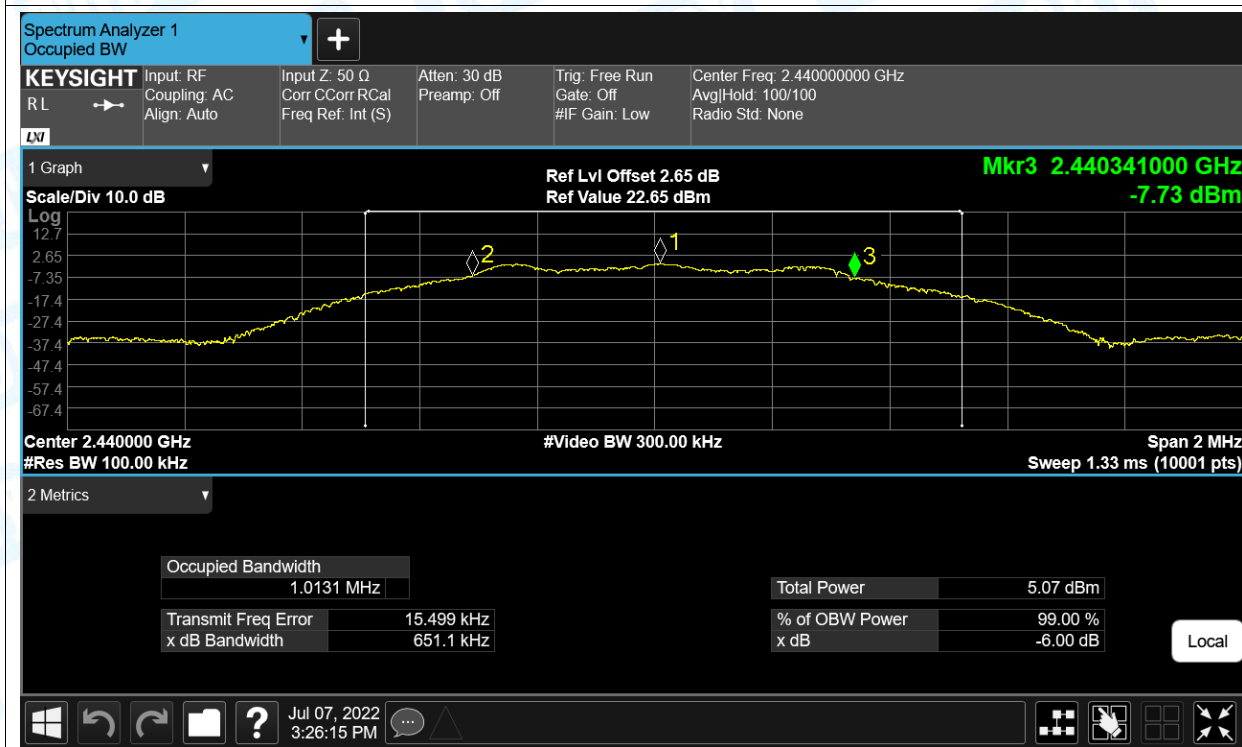
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1Mbps	2402	Ant1	0.65	0.5	Pass
NVNT	BLE 1Mbps	2440	Ant1	0.65	0.5	Pass
NVNT	BLE 1Mbps	2480	Ant1	0.65	0.5	Pass

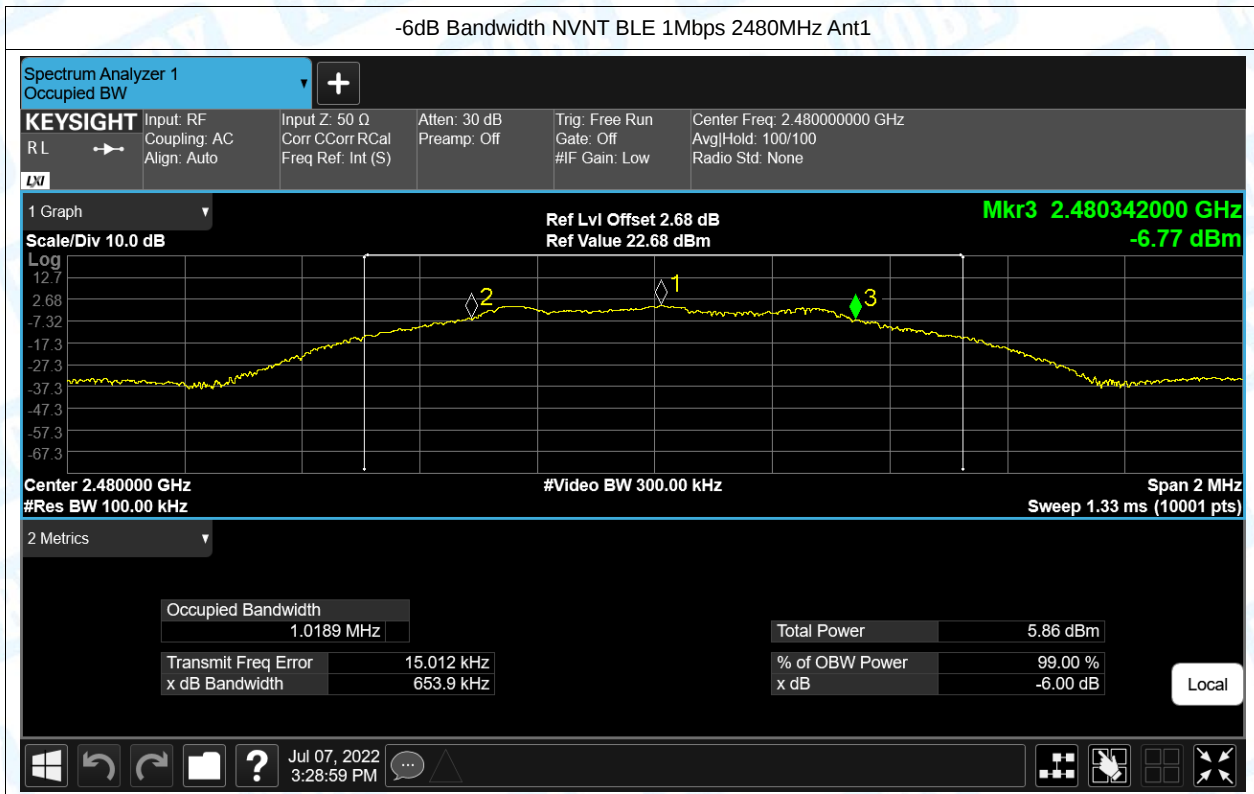
Test Graphs

-6dB Bandwidth NVNT BLE 1Mbps 2402MHz Ant1



-6dB Bandwidth NVNT BLE 1Mbps 2440MHz Ant1

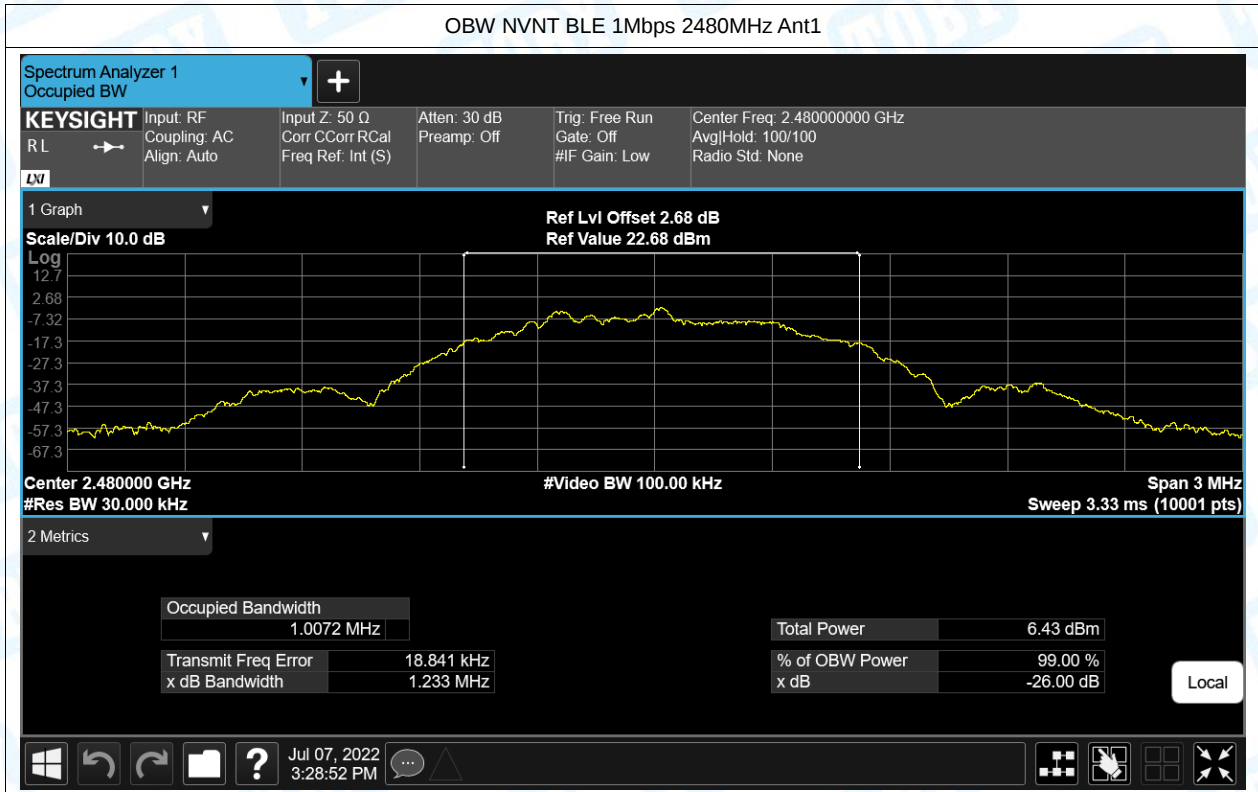




4. Occupied Channel Bandwidth

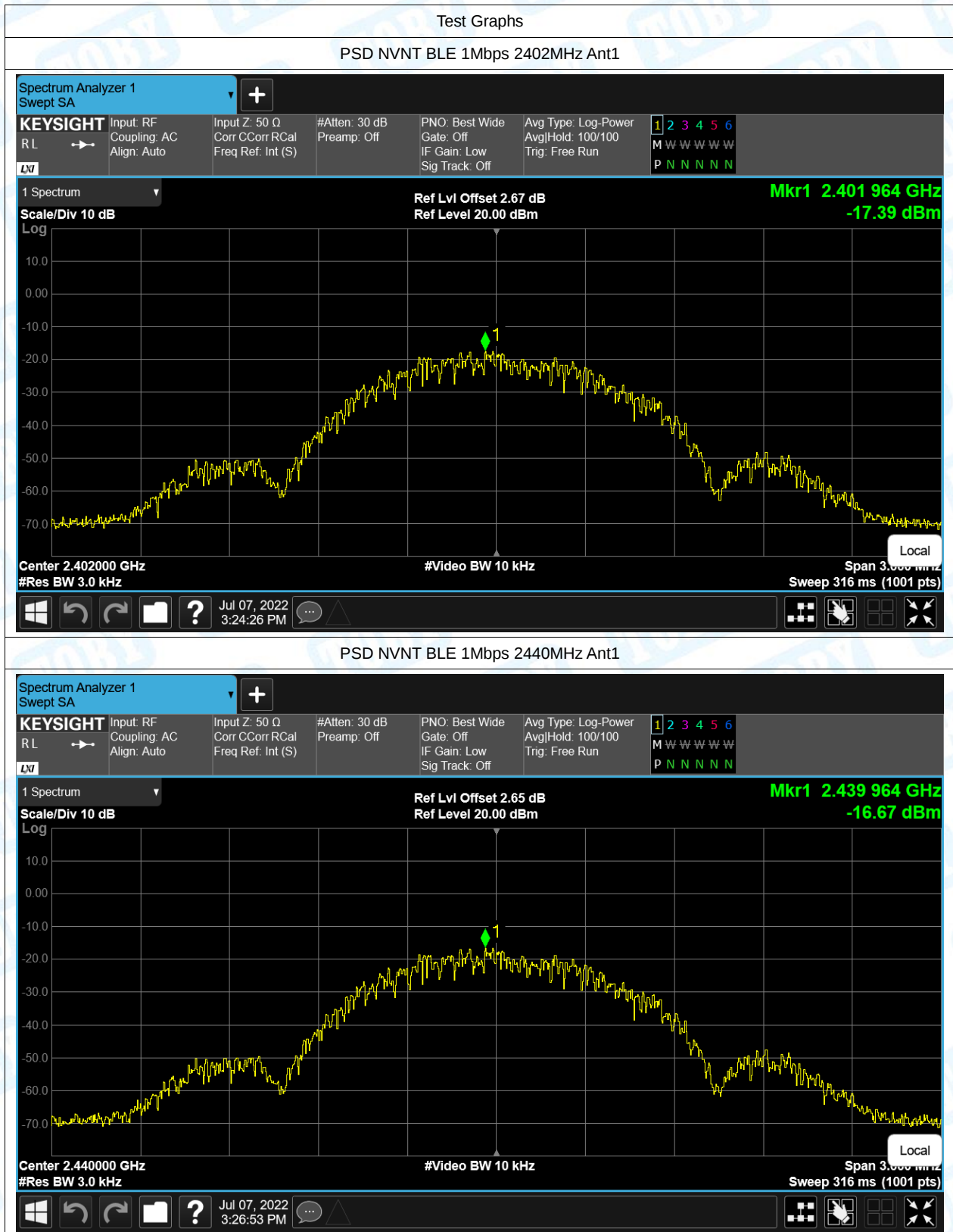
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	BLE 1Mbps	2402	Ant1	1.012
NVNT	BLE 1Mbps	2440	Ant1	1.008
NVNT	BLE 1Mbps	2480	Ant1	1.007

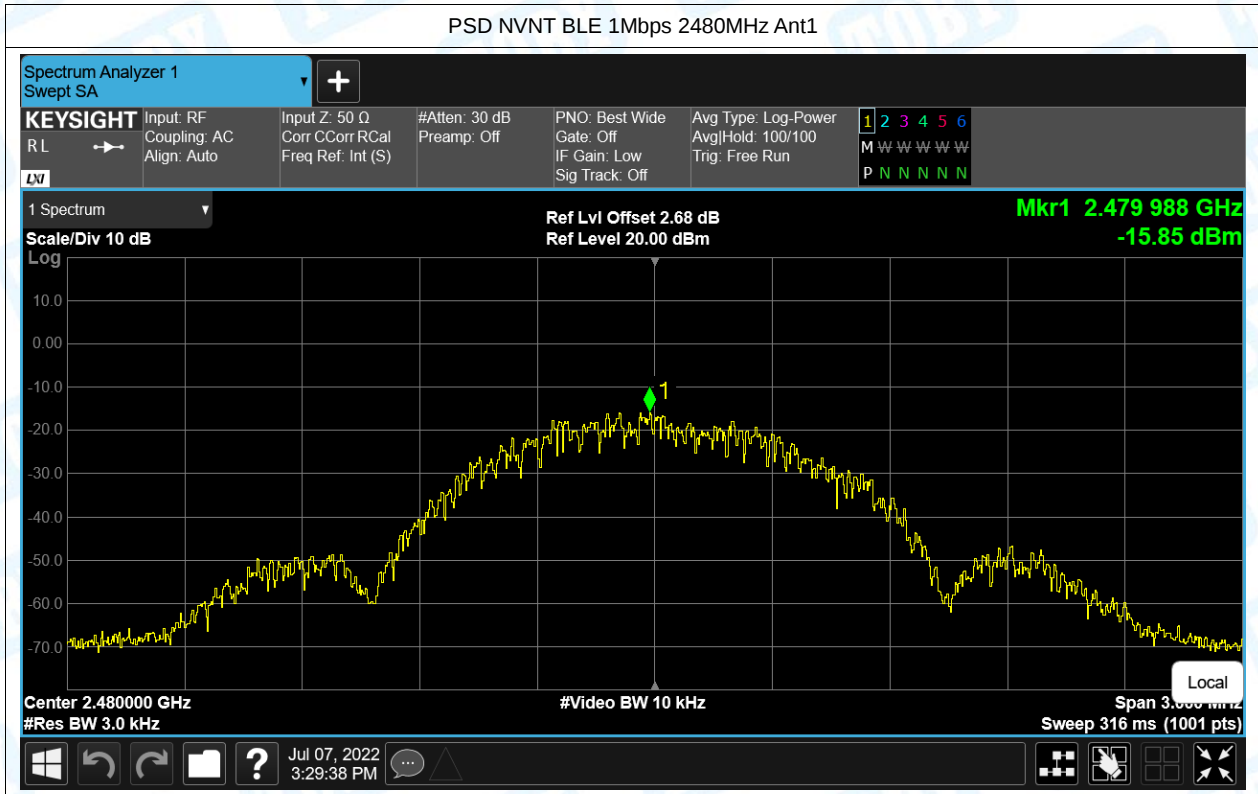




5. Maximum Power Spectral Density Level

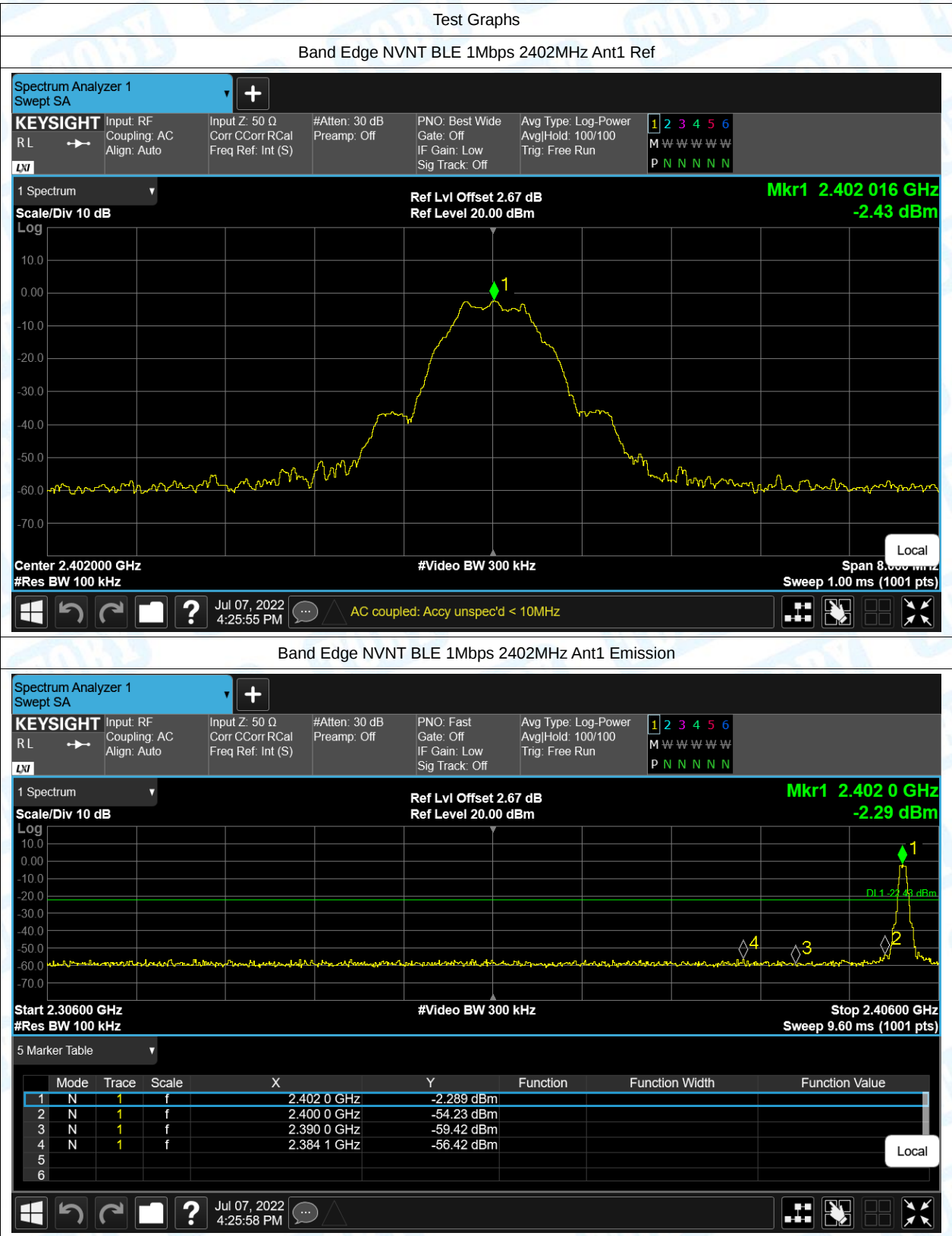
Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	BLE 1Mbps	2402	Ant1	-17.386	8	Pass
NVNT	BLE 1Mbps	2440	Ant1	-16.668	8	Pass
NVNT	BLE 1Mbps	2480	Ant1	-15.852	8	Pass

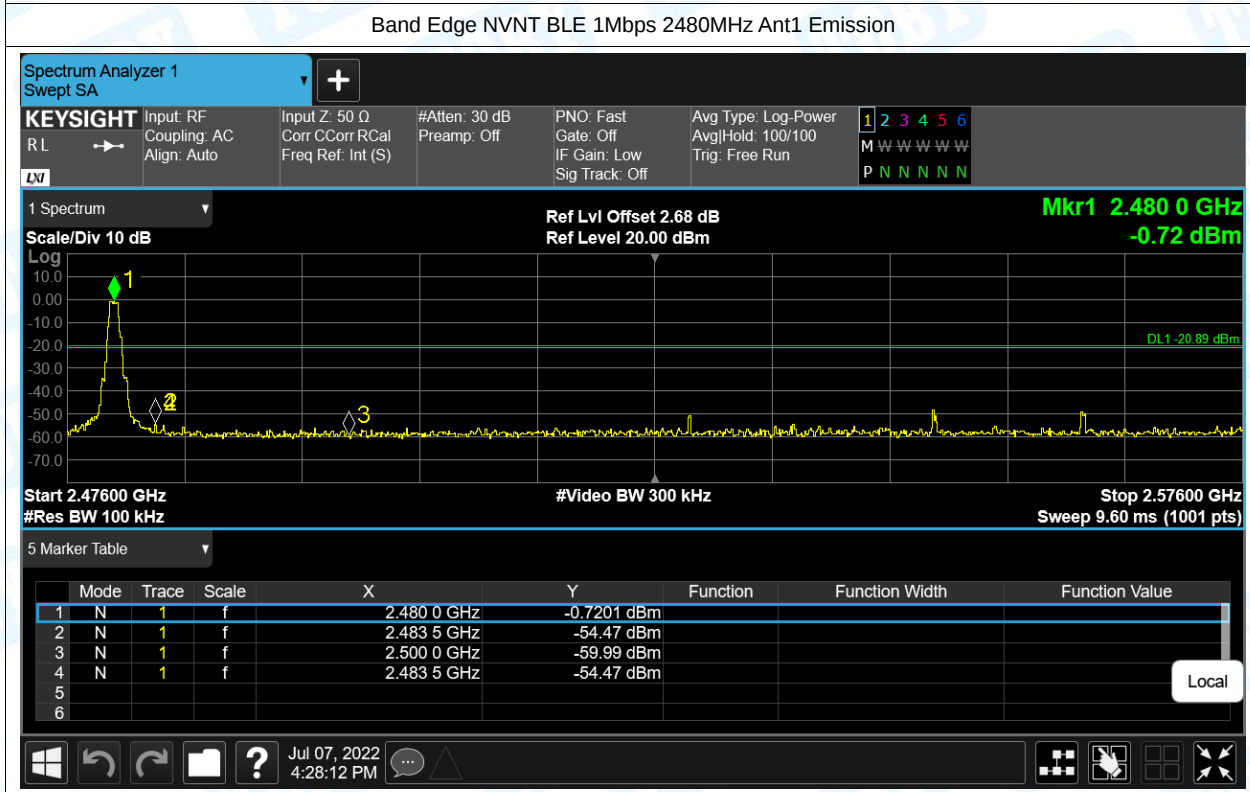
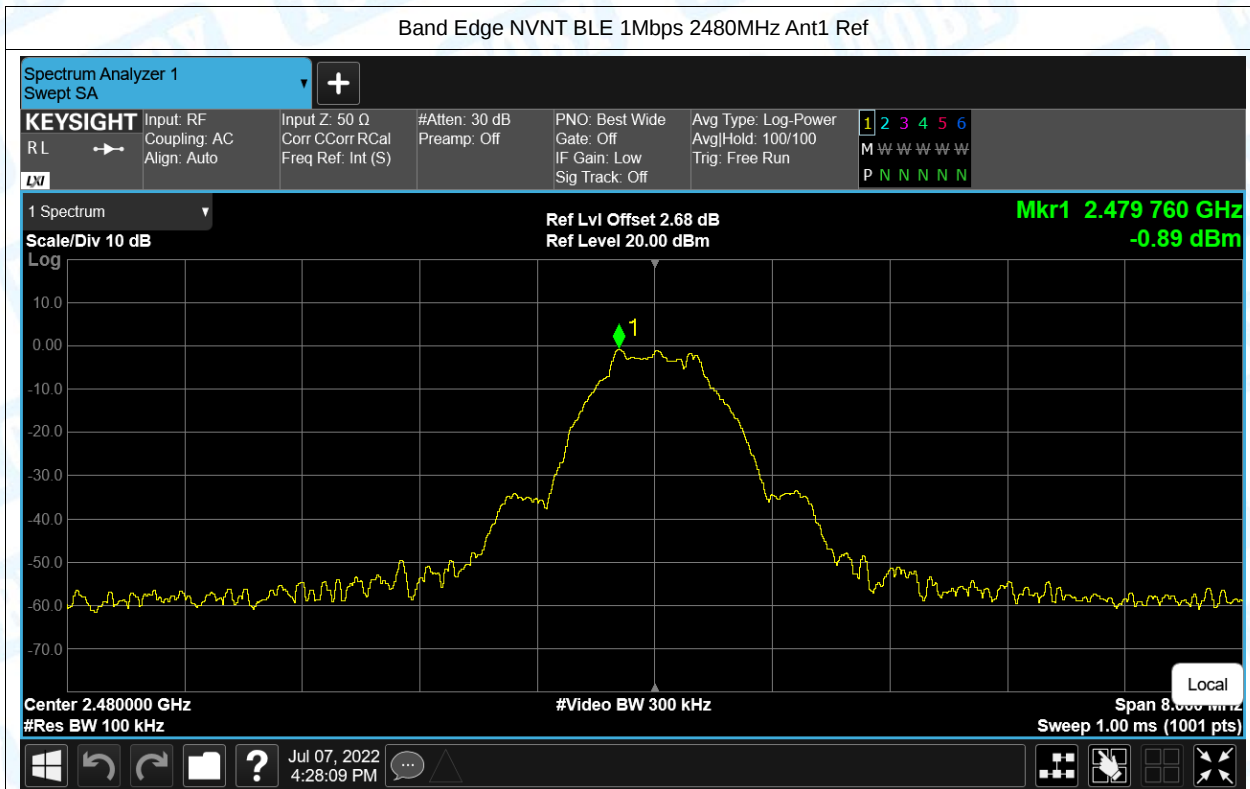




6. Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1Mbps	2402	Ant1	-53.99	-20	Pass
NVNT	BLE 1Mbps	2480	Ant1	-53.58	-20	Pass

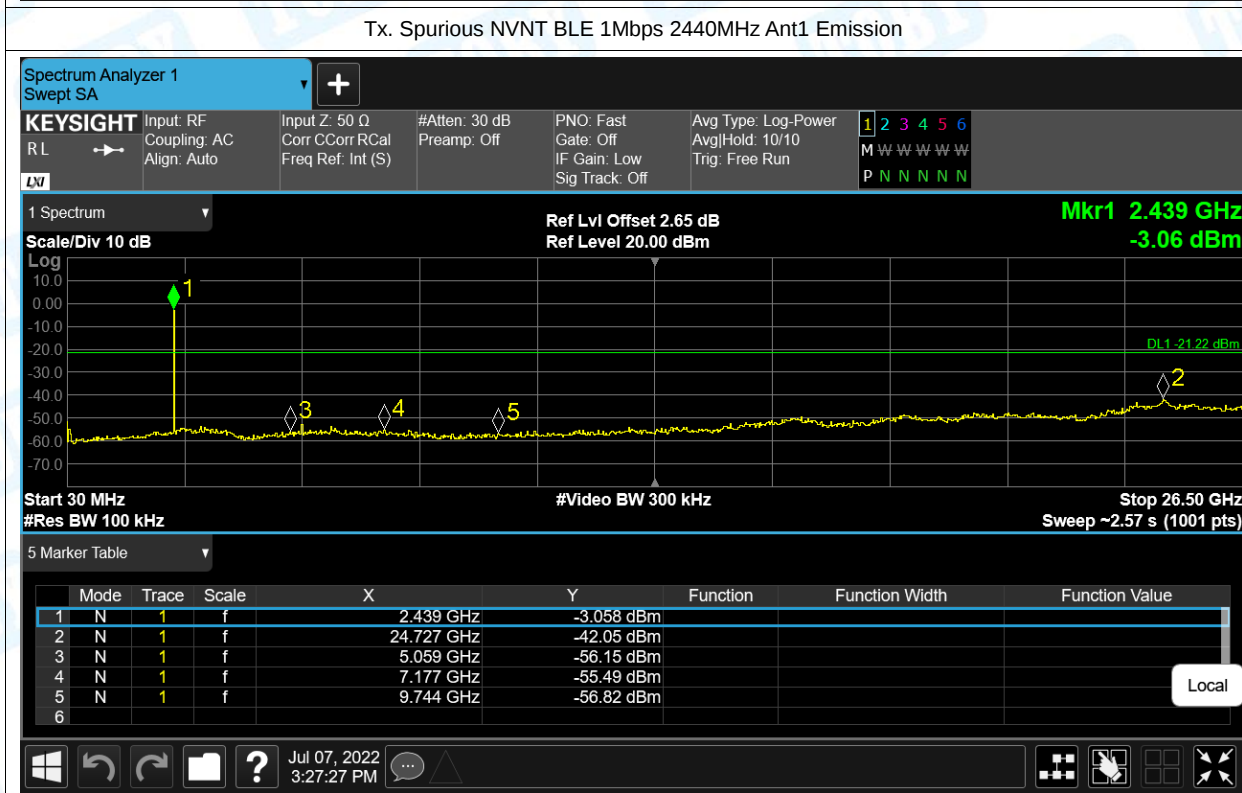
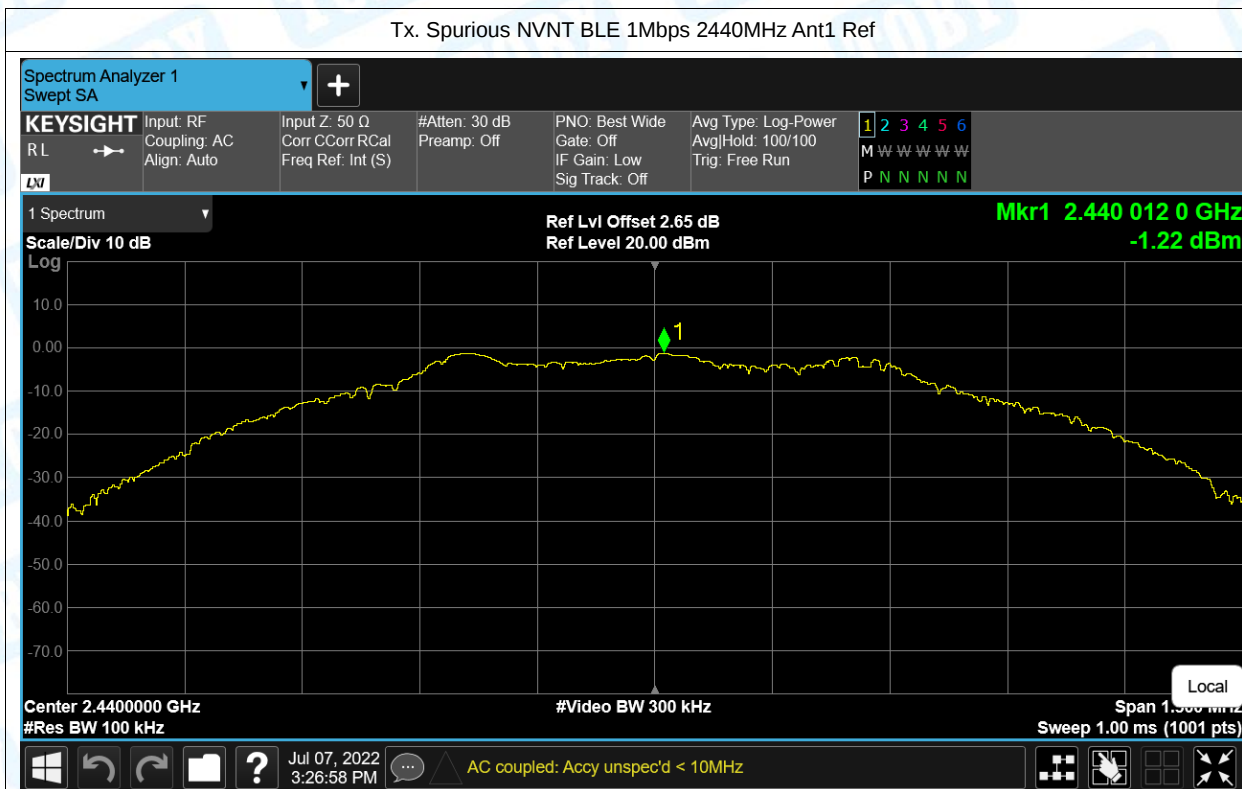




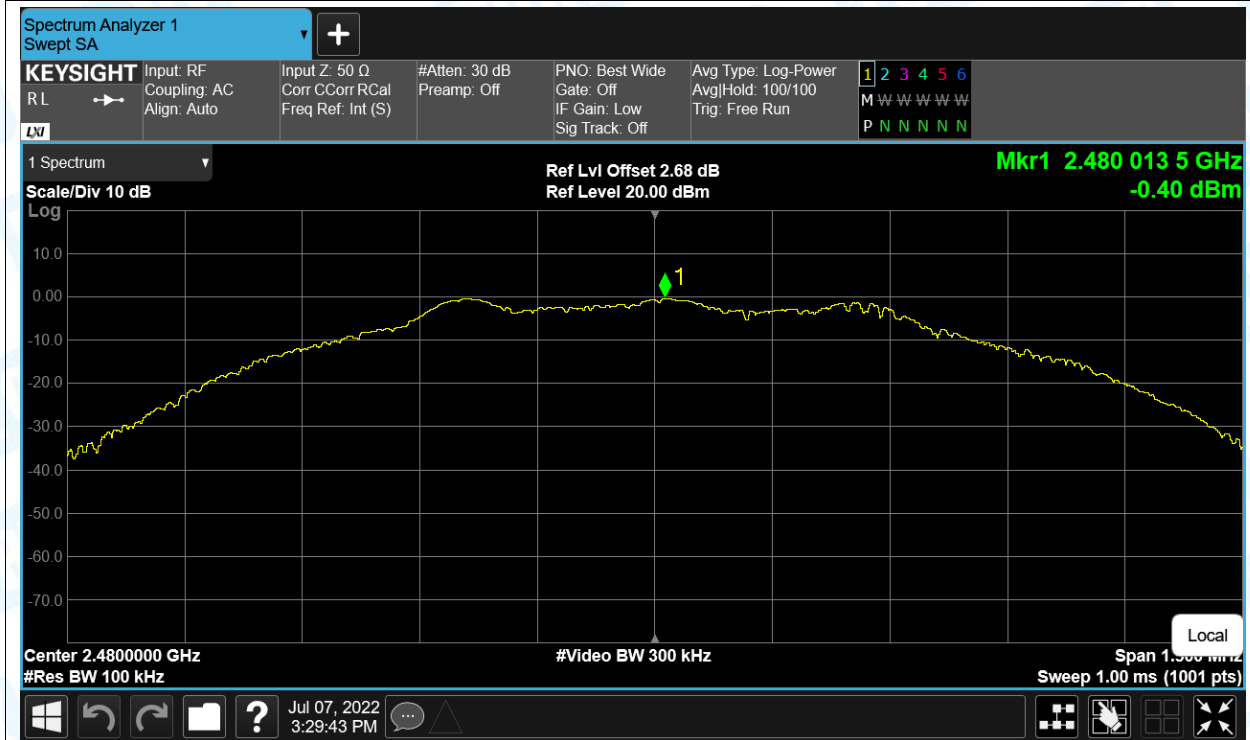
7. Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1Mbps	2402	Ant1	-39.28	-20	Pass
NVNT	BLE 1Mbps	2440	Ant1	-40.83	-20	Pass
NVNT	BLE 1Mbps	2480	Ant1	-41.37	-20	Pass

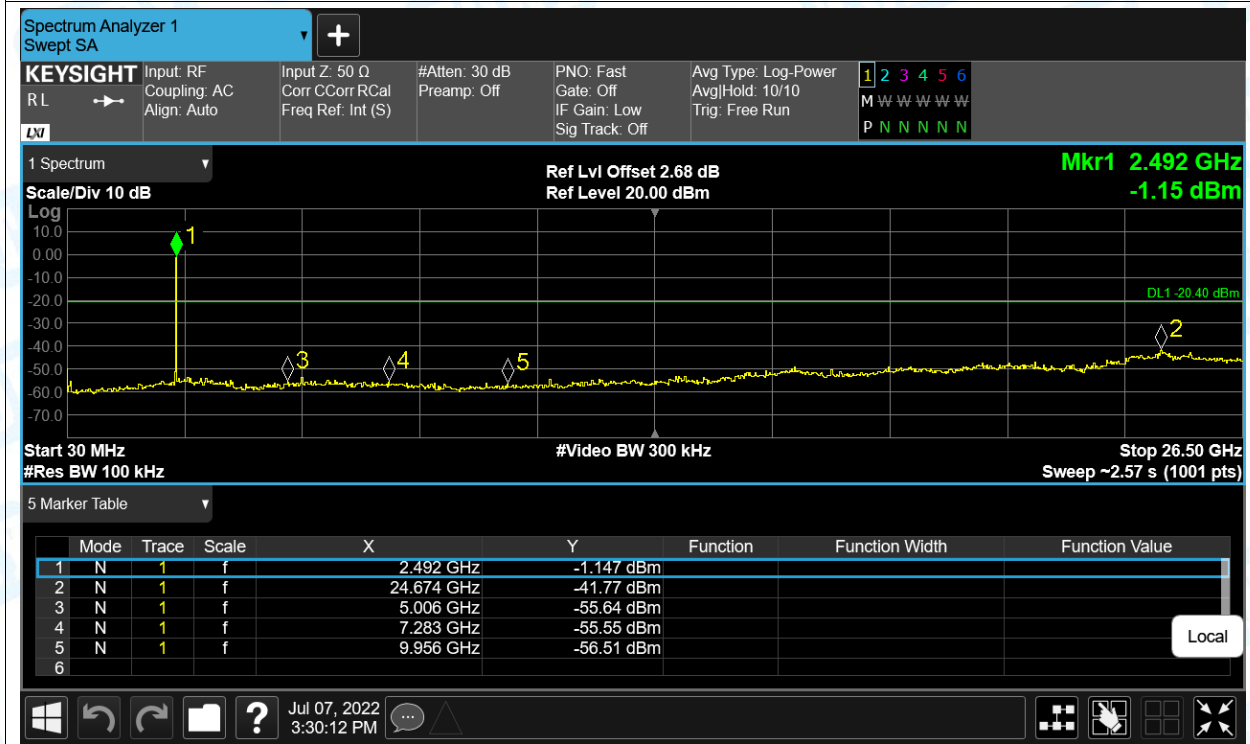




Tx. Spurious NVNT BLE 1Mbps 2480MHz Ant1 Ref



Tx. Spurious NVNT BLE 1Mbps 2480MHz Ant1 Emission

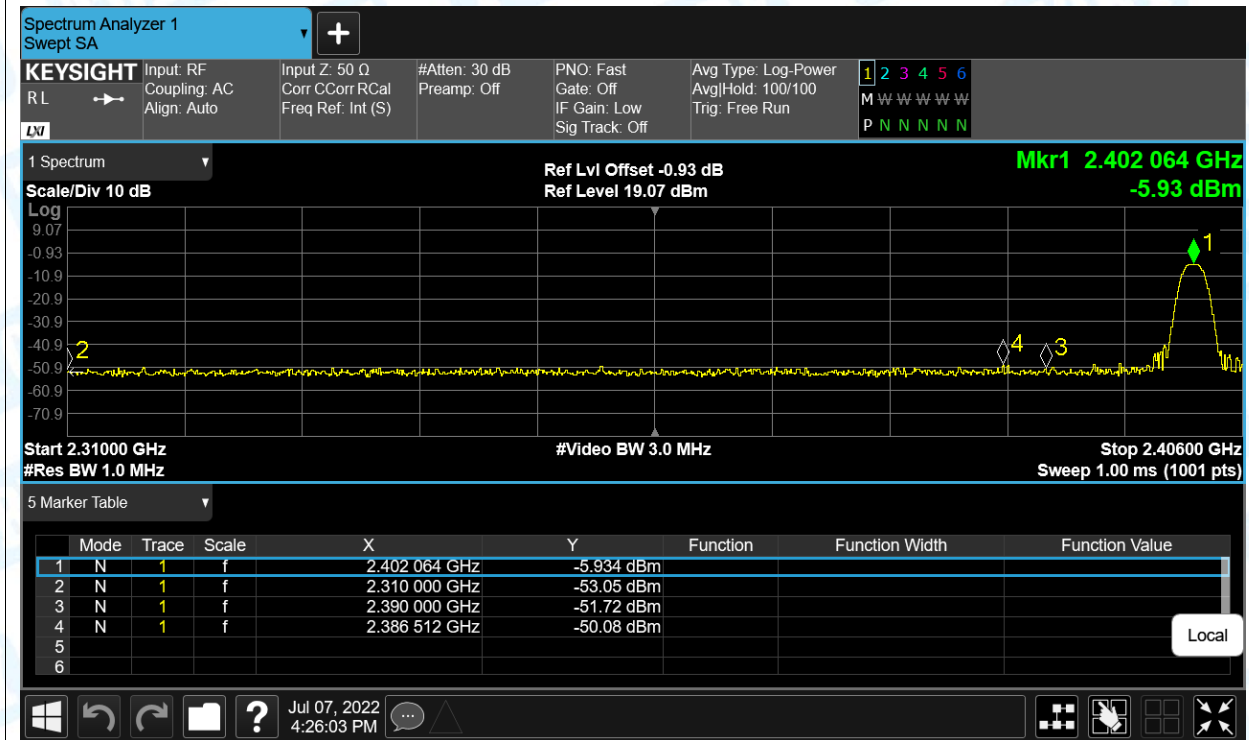


8. Restrict Band

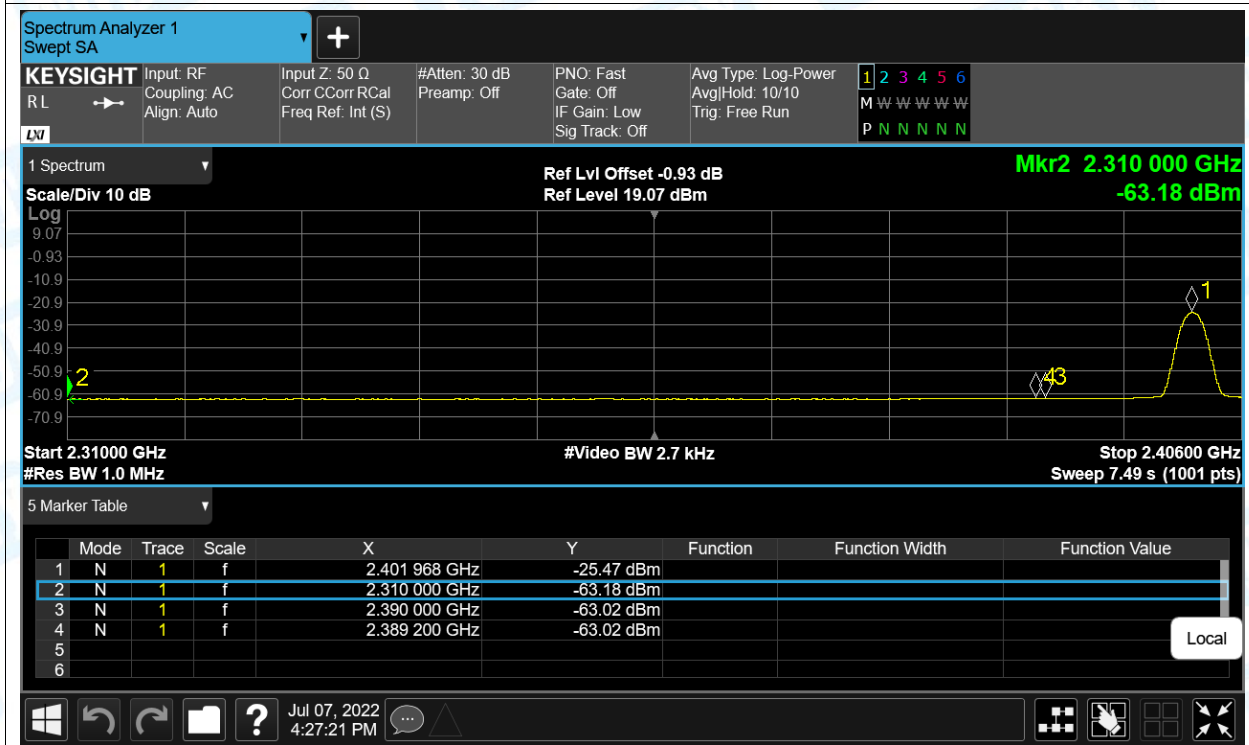
Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	BLE 1Mbps	2402	Ant1	2310	-53.05	2	44.21	Peak	74	Pass
NVNT	BLE 1Mbps	2402	Ant1	2310	-63.18	2	34.08	Average	54	Pass
NVNT	BLE 1Mbps	2402	Ant1	2386.512	-50.08	2	47.18	Peak	74	Pass
NVNT	BLE 1Mbps	2402	Ant1	2389.2	-63.02	2	34.24	Average	54	Pass
NVNT	BLE 1Mbps	2402	Ant1	2390	-53.19	2	44.07	Peak	74	Pass
NVNT	BLE 1Mbps	2402	Ant1	2390	-63.03	2	34.23	Average	54	Pass
NVNT	BLE 1Mbps	2480	Ant1	2483.5	-44.74	2	52.52	Peak	74	Pass
NVNT	BLE 1Mbps	2480	Ant1	2483.5	-61.98	2	35.28	Average	54	Pass
NVNT	BLE 1Mbps	2480	Ant1	2483.512	-44.74	2	52.52	Peak	74	Pass
NVNT	BLE 1Mbps	2480	Ant1	2483.512	-61.98	2	35.28	Average	54	Pass
NVNT	BLE 1Mbps	2480	Ant1	2500	-52.74	2	44.52	Peak	74	Pass
NVNT	BLE 1Mbps	2480	Ant1	2500	-62.81	2	34.45	Average	54	Pass

Test Graphs

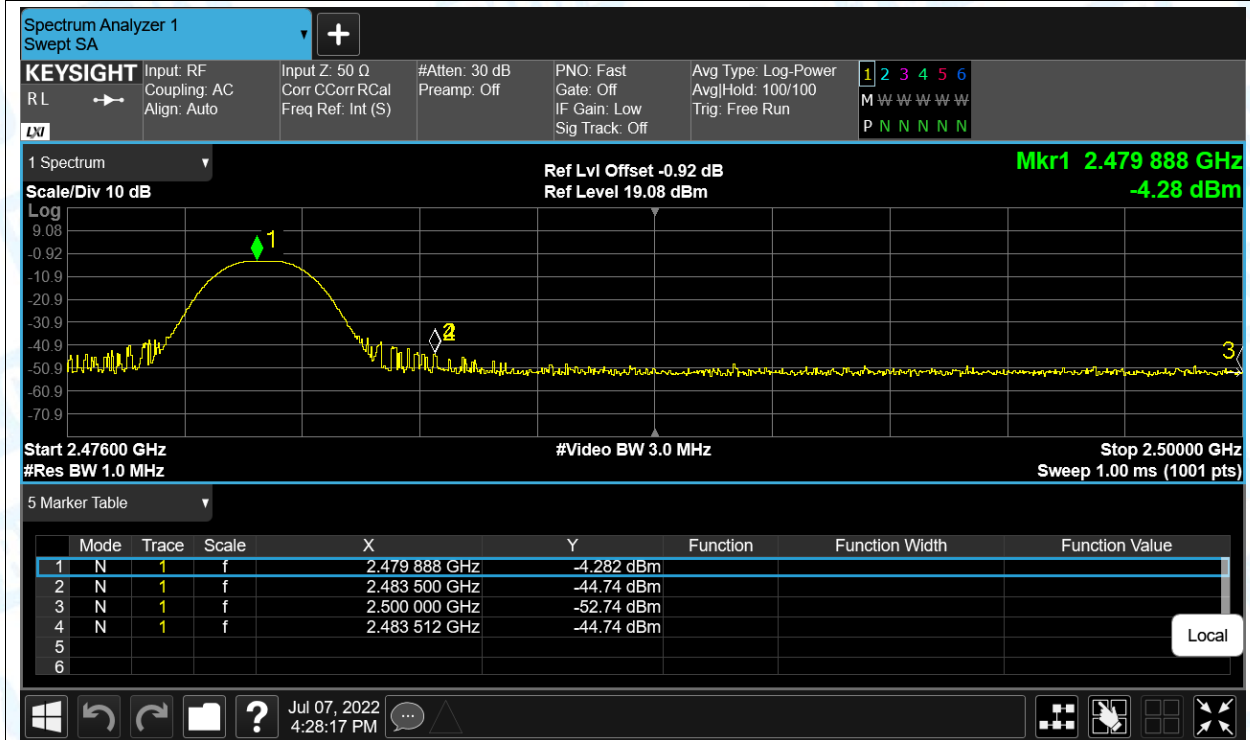
Restrict Band NVNT BLE 1Mbps 2402MHz Ant1 Peak



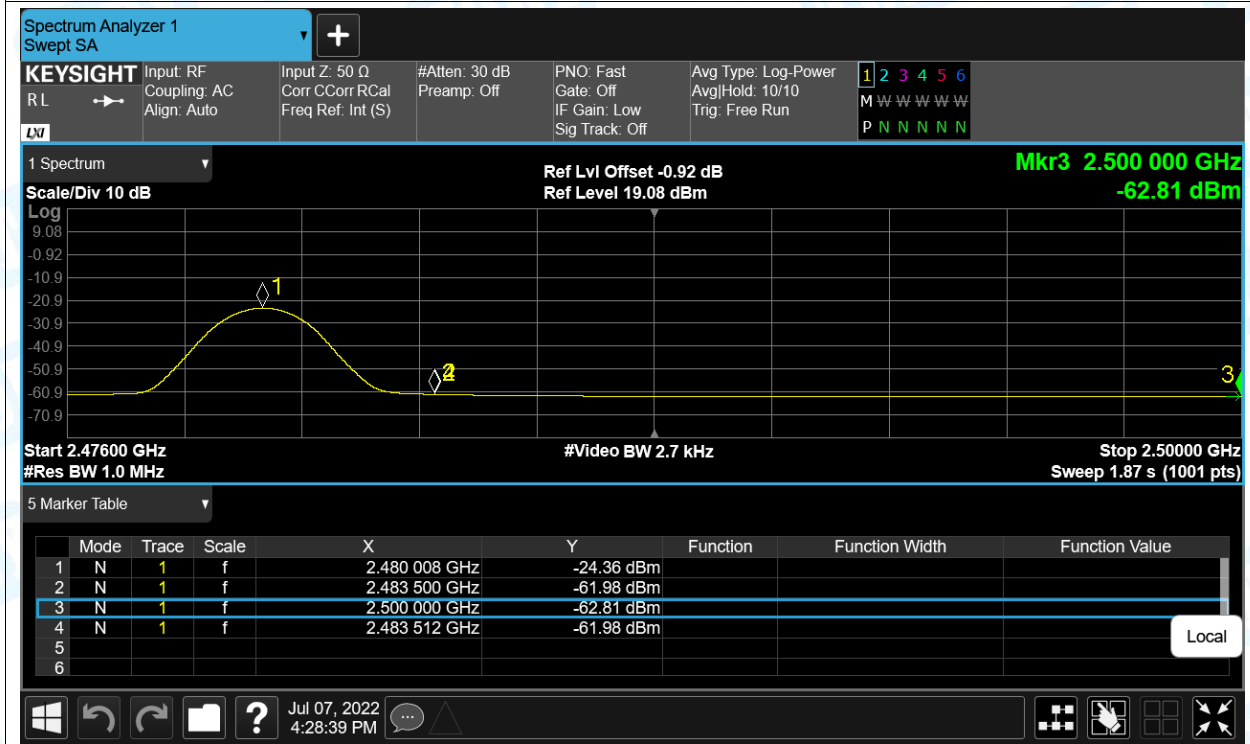
Restrict Band NVNT BLE 1Mbps 2402MHz Ant1 Average



Restrict Band NVNT BLE 1Mbps 2480MHz Ant1 Peak



Restrict Band NVNT BLE 1Mbps 2480MHz Ant1 Average



-----END OF REPORT-----