

RF Test Data for Bluetooth LE (Conducted Measurements)

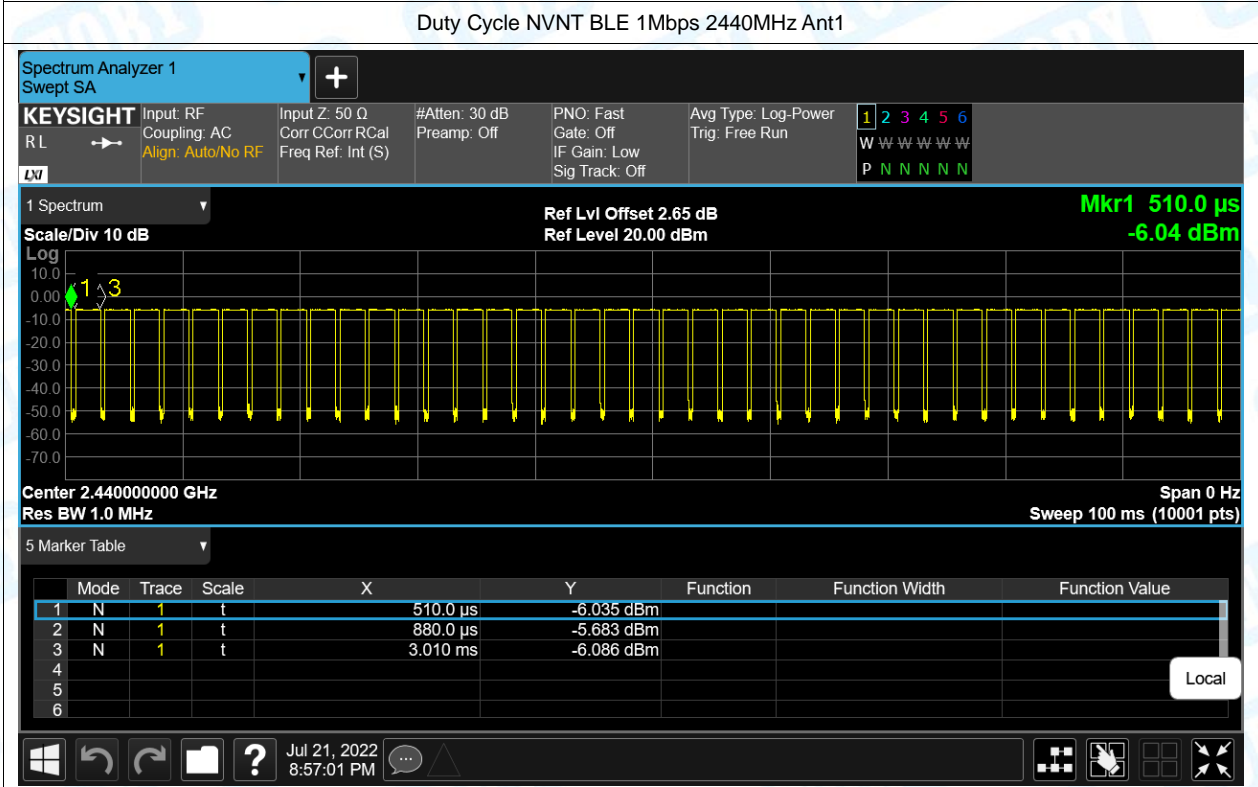
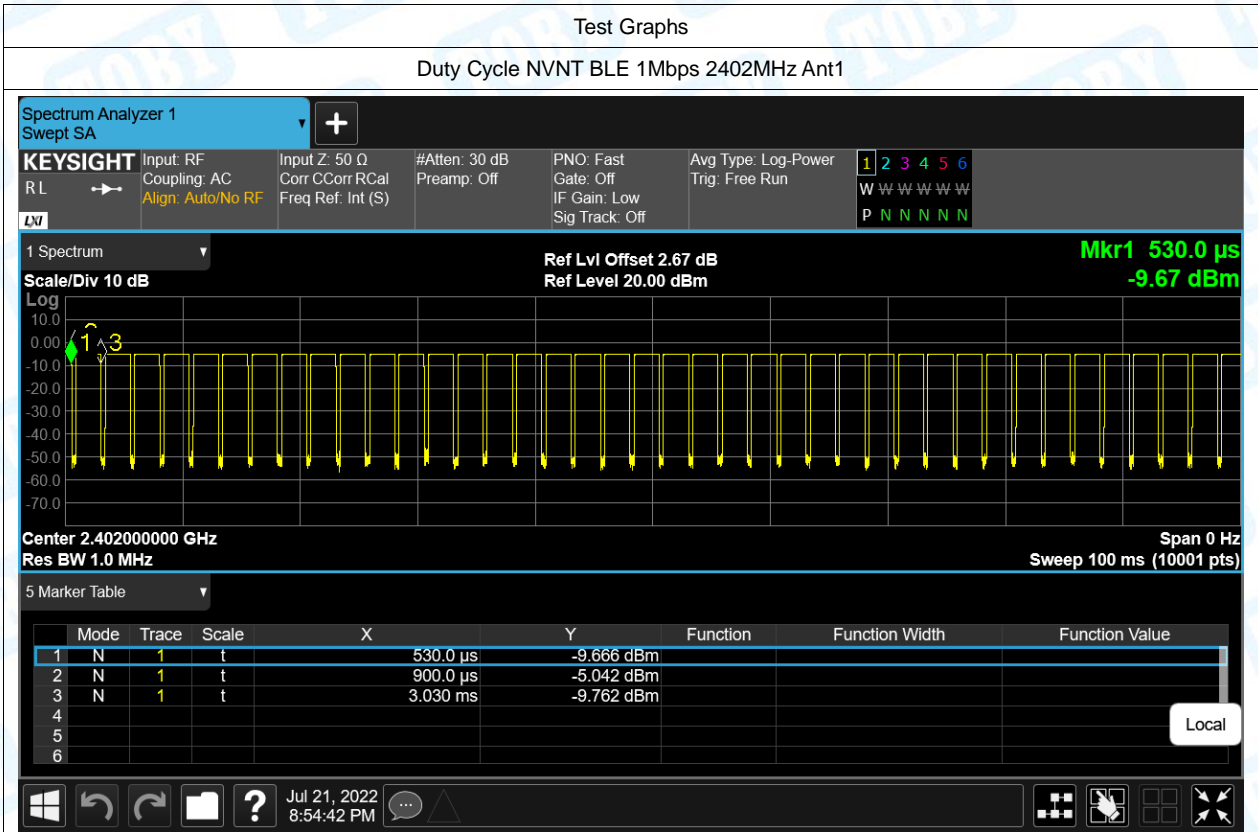
General Description of EUT	
Product Name:	Hushh Dreamseeker, Hushh+
Test Model:	4001360
Sample ID:	202204-0402-01-2#
Environmental Conditions	
Temperature:	25°C
Relative Humidity:	55%
Test Voltage:	DC 3.7V
Test Engineer:	Huangjianping
Note: For a more detailed features description, please refer to the report TBR-C-202204-0402-23	

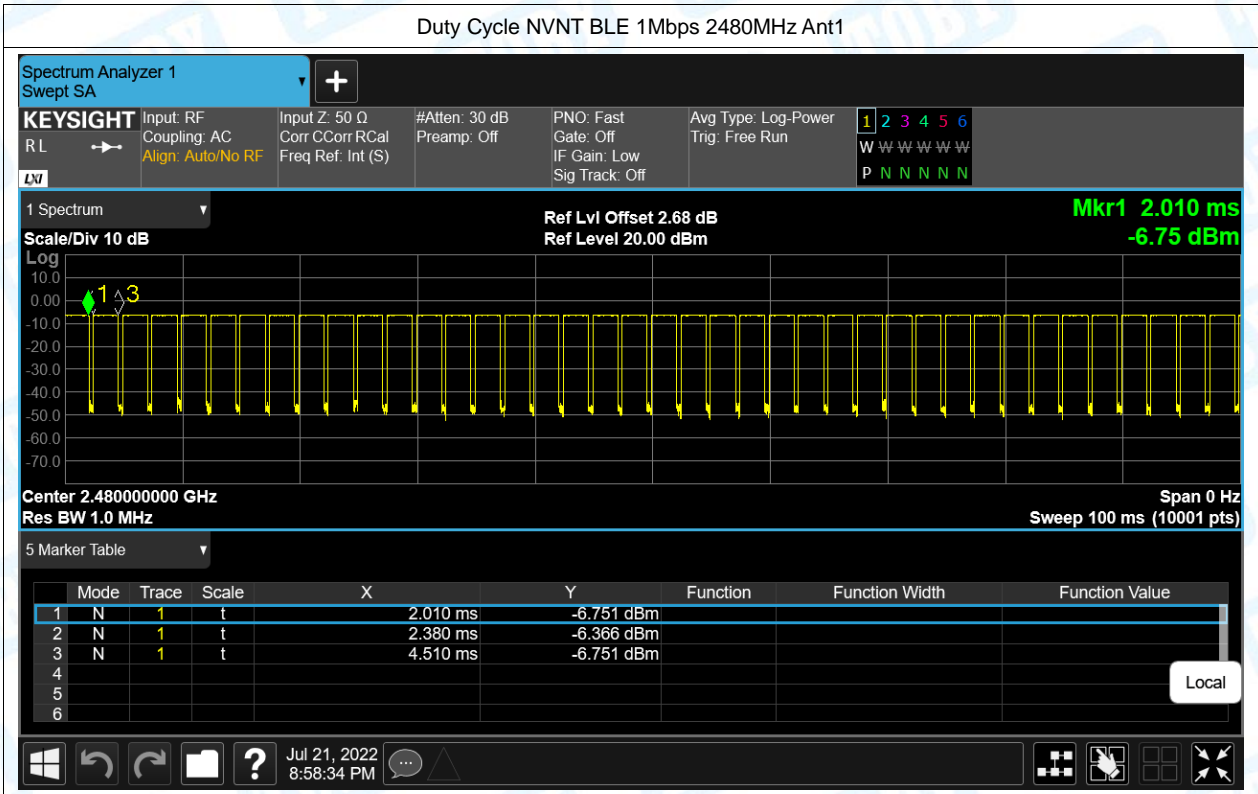
Contents

1. Duty Cycle.....	3
2. Maximum Conducted Output Power.....	6
3. -6dB Bandwidth.....	9
4. Occupied Channel Bandwidth.....	12
5. Maximum Power Spectral Density Level.....	15
6. Band Edge.....	18
7. Conducted RF Spurious Emission.....	21
8. Restrict Band.....	25

1. Duty Cycle

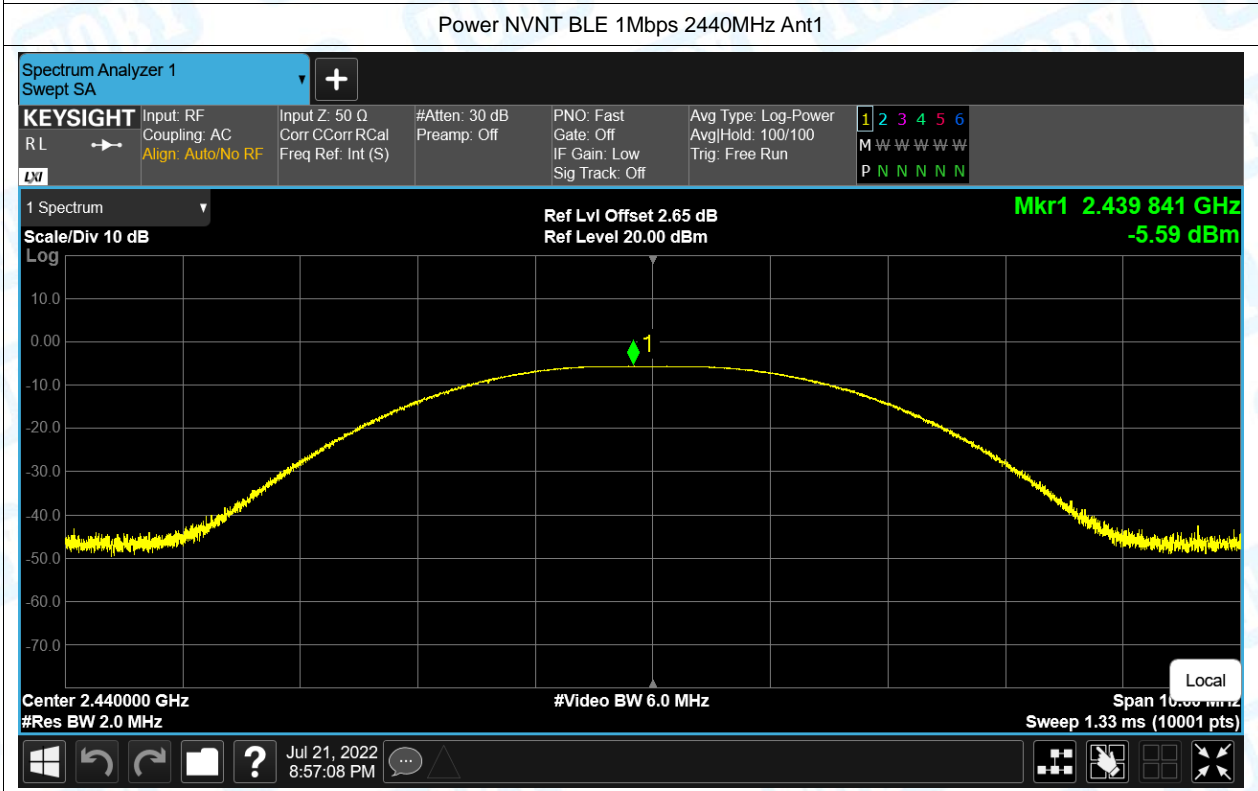
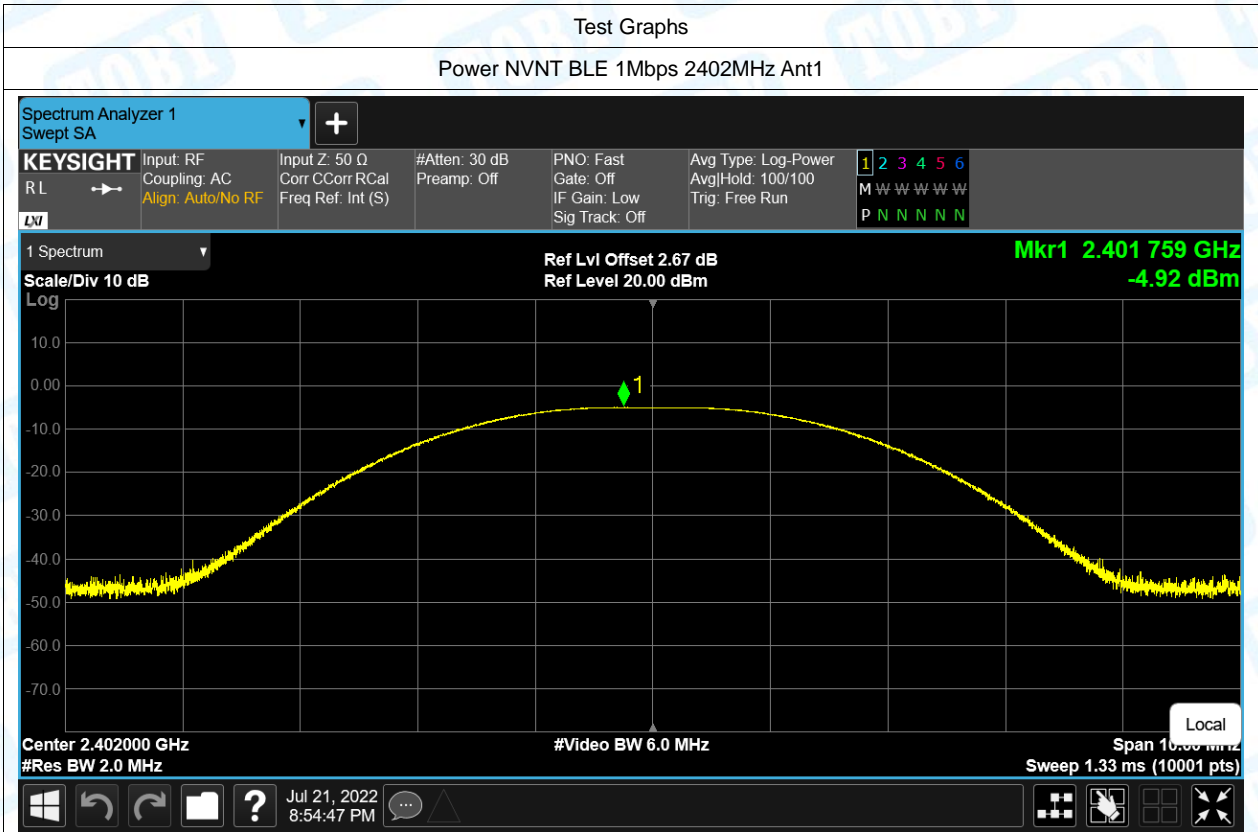
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	BLE 1Mbps	2402	Ant1	85.6	0.68	0.47
NVNT	BLE 1Mbps	2440	Ant1	85.6	0.68	0.47
NVNT	BLE 1Mbps	2480	Ant1	85.6	0.68	0.47

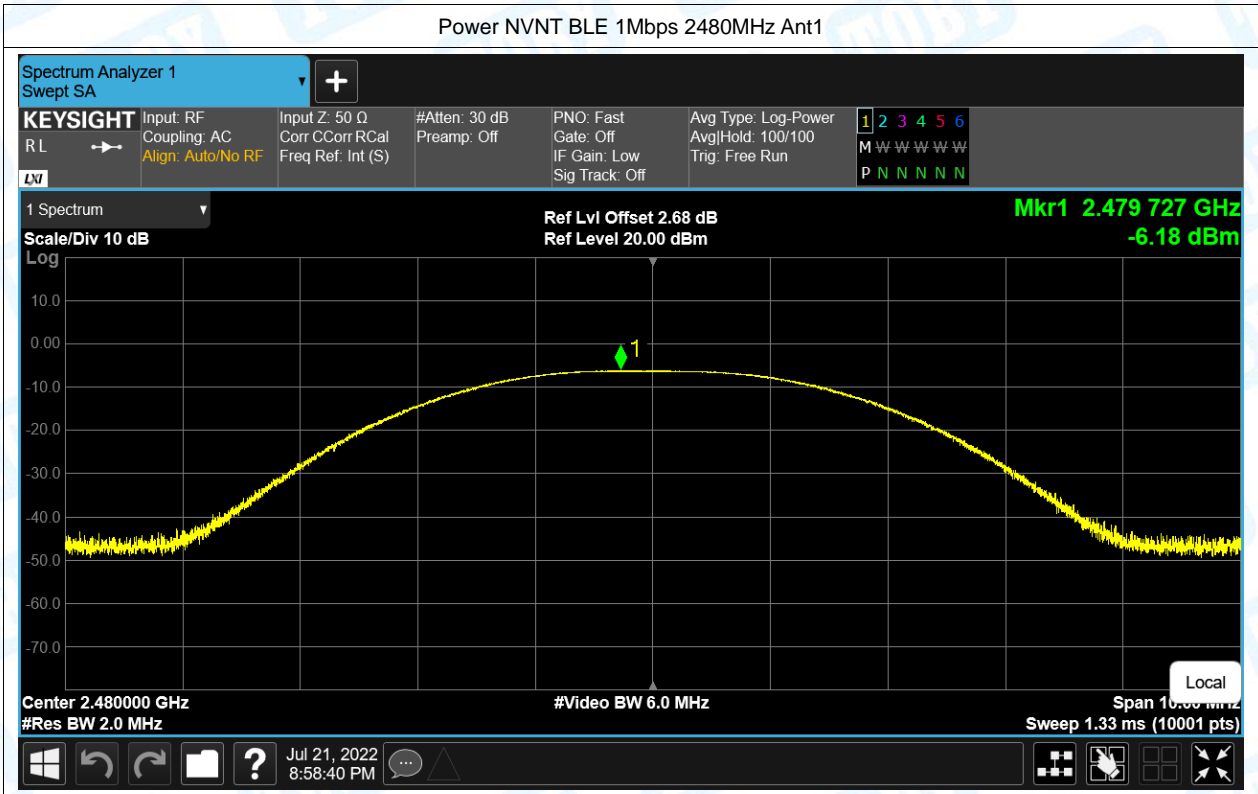




2. Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1Mbps	2402	Ant1	-4.92	30	Pass
NVNT	BLE 1Mbps	2440	Ant1	-5.593	30	Pass
NVNT	BLE 1Mbps	2480	Ant1	-6.179	30	Pass



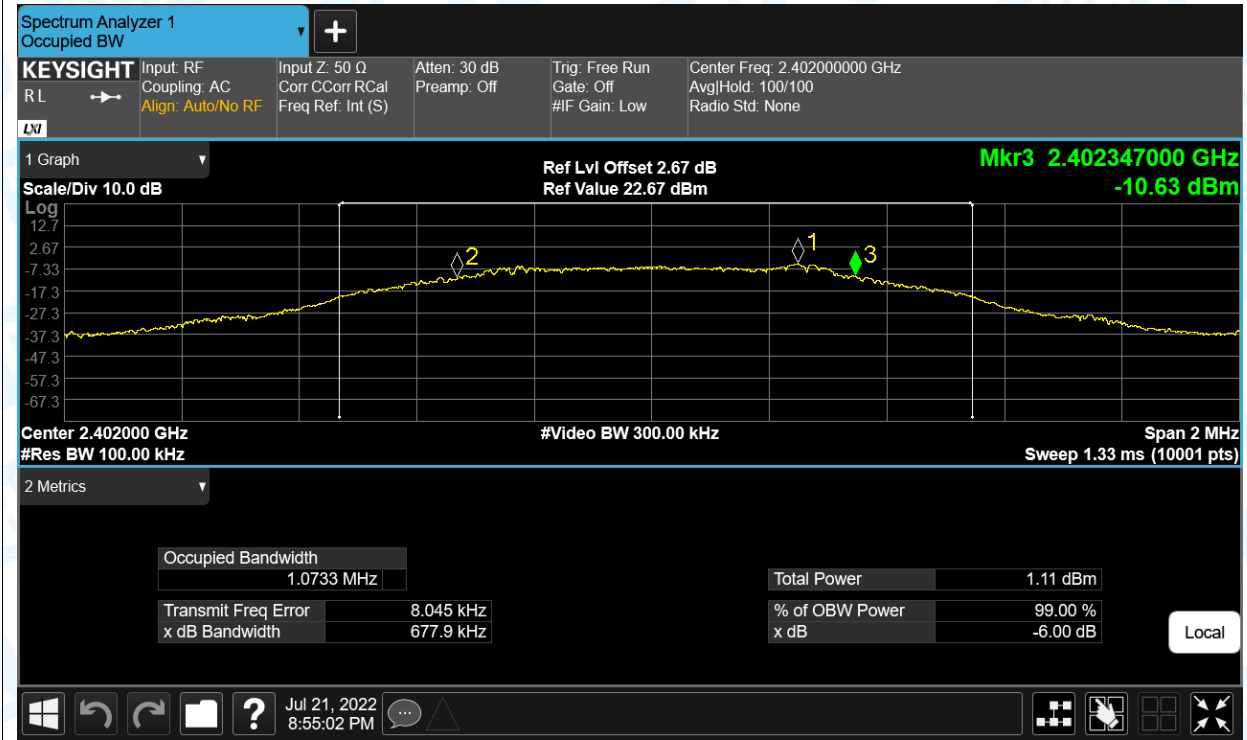


3. -6dB Bandwidth

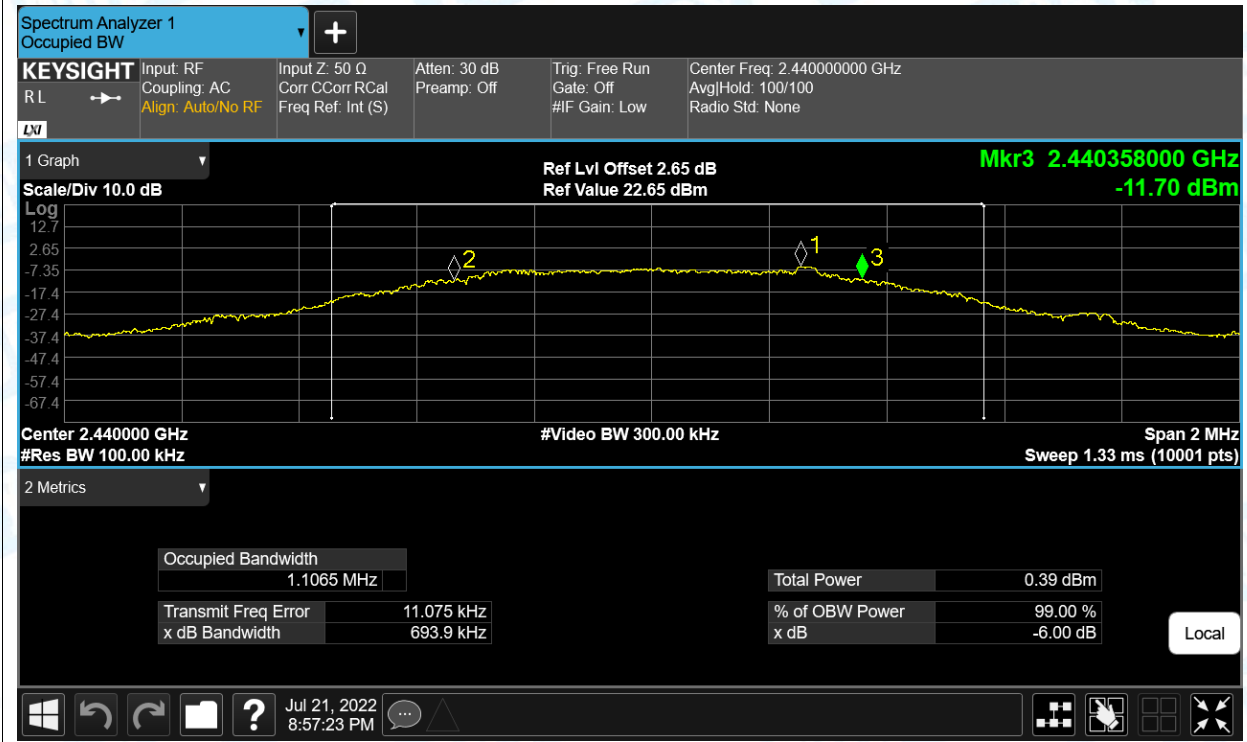
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1Mbps	2402	Ant1	0.68	0.5	Pass
NVNT	BLE 1Mbps	2440	Ant1	0.69	0.5	Pass
NVNT	BLE 1Mbps	2480	Ant1	0.75	0.5	Pass

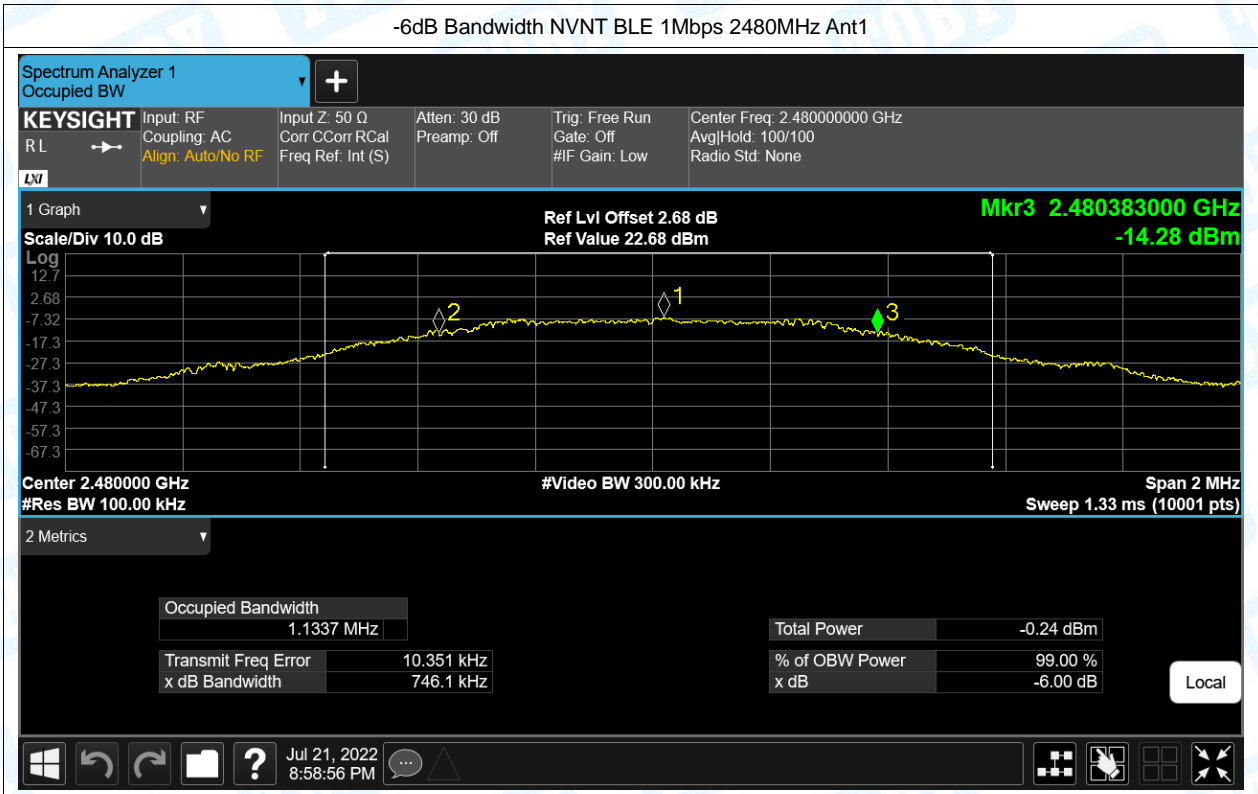
Test Graphs

-6dB Bandwidth NVNT BLE 1Mbps 2402MHz Ant1



-6dB Bandwidth NVNT BLE 1Mbps 2440MHz Ant1



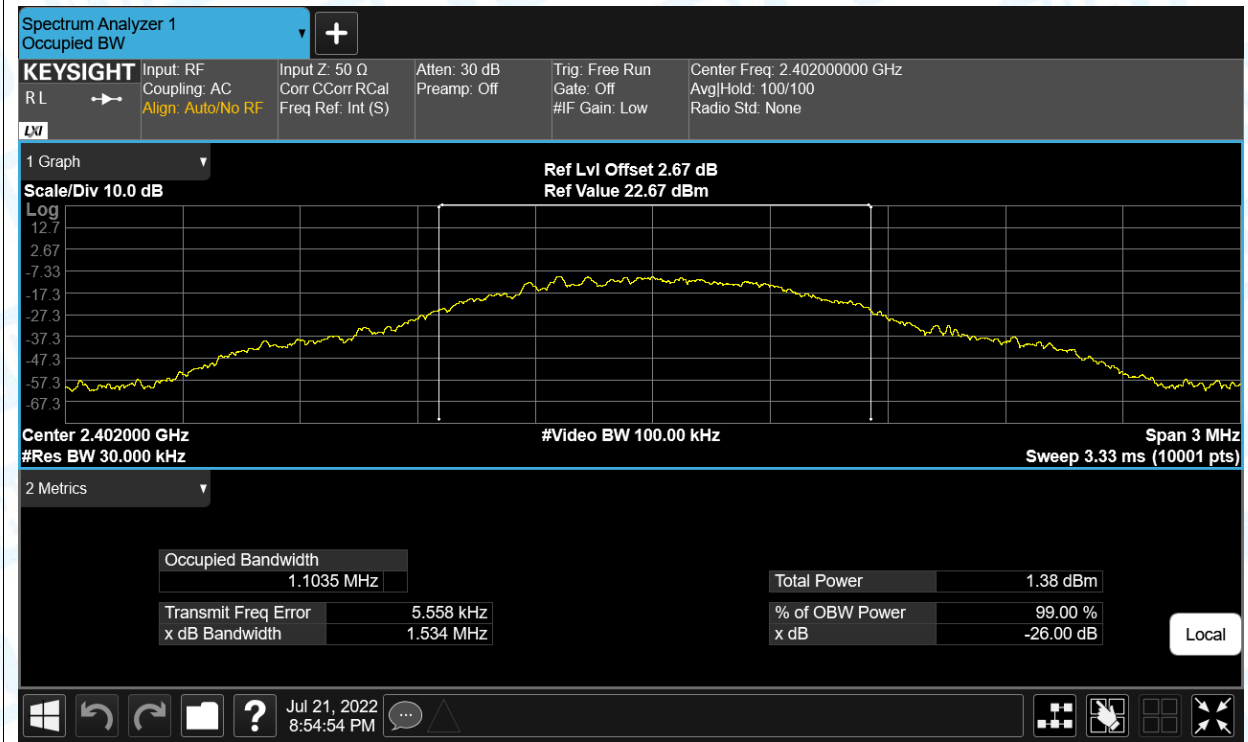


4. Occupied Channel Bandwidth

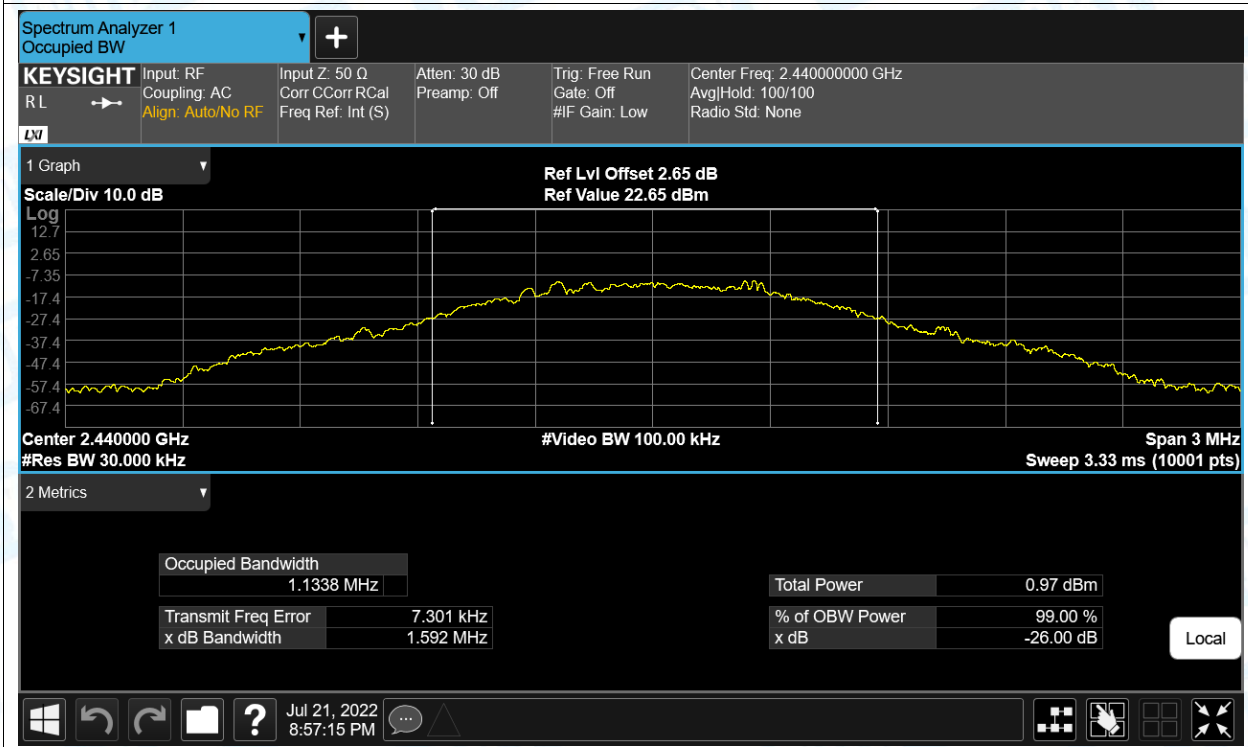
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	BLE 1Mbps	2402	Ant1	1.103
NVNT	BLE 1Mbps	2440	Ant1	1.134
NVNT	BLE 1Mbps	2480	Ant1	1.149

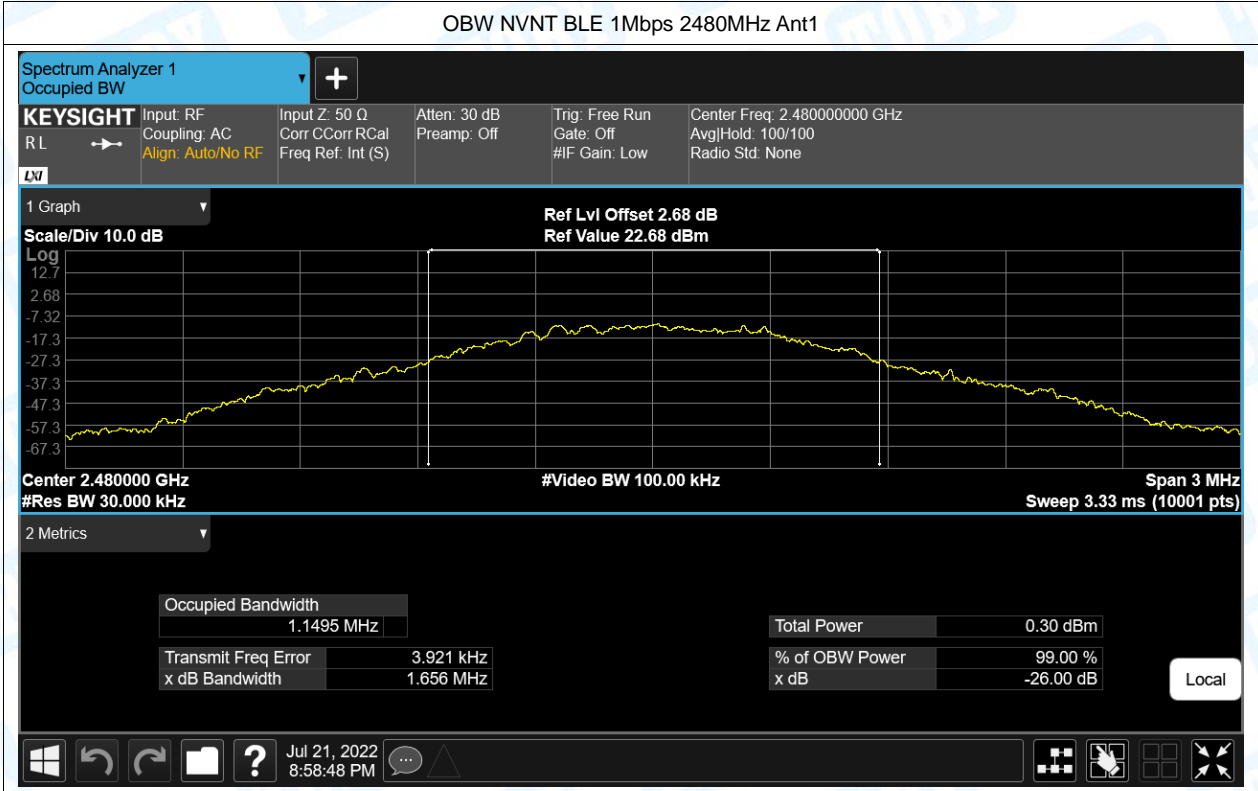
Test Graphs

OBW NVNT BLE 1Mbps 2402MHz Ant1



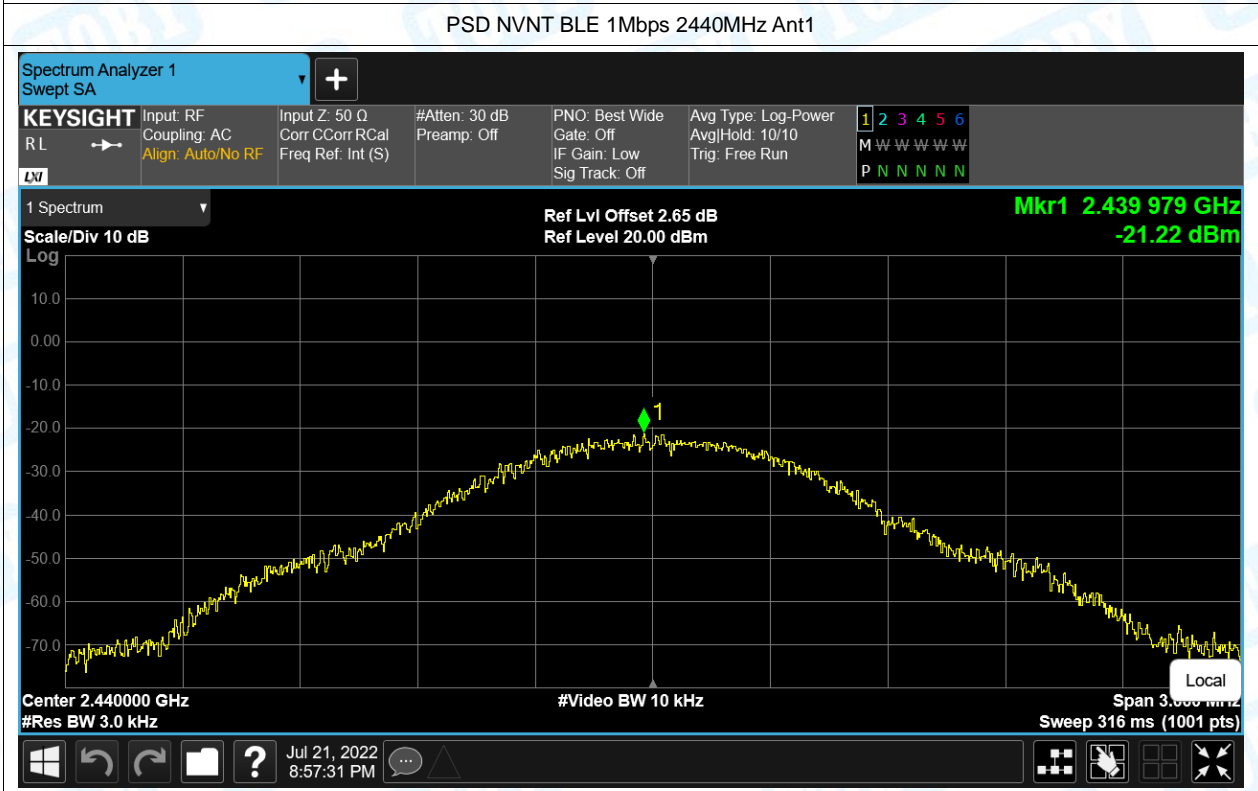
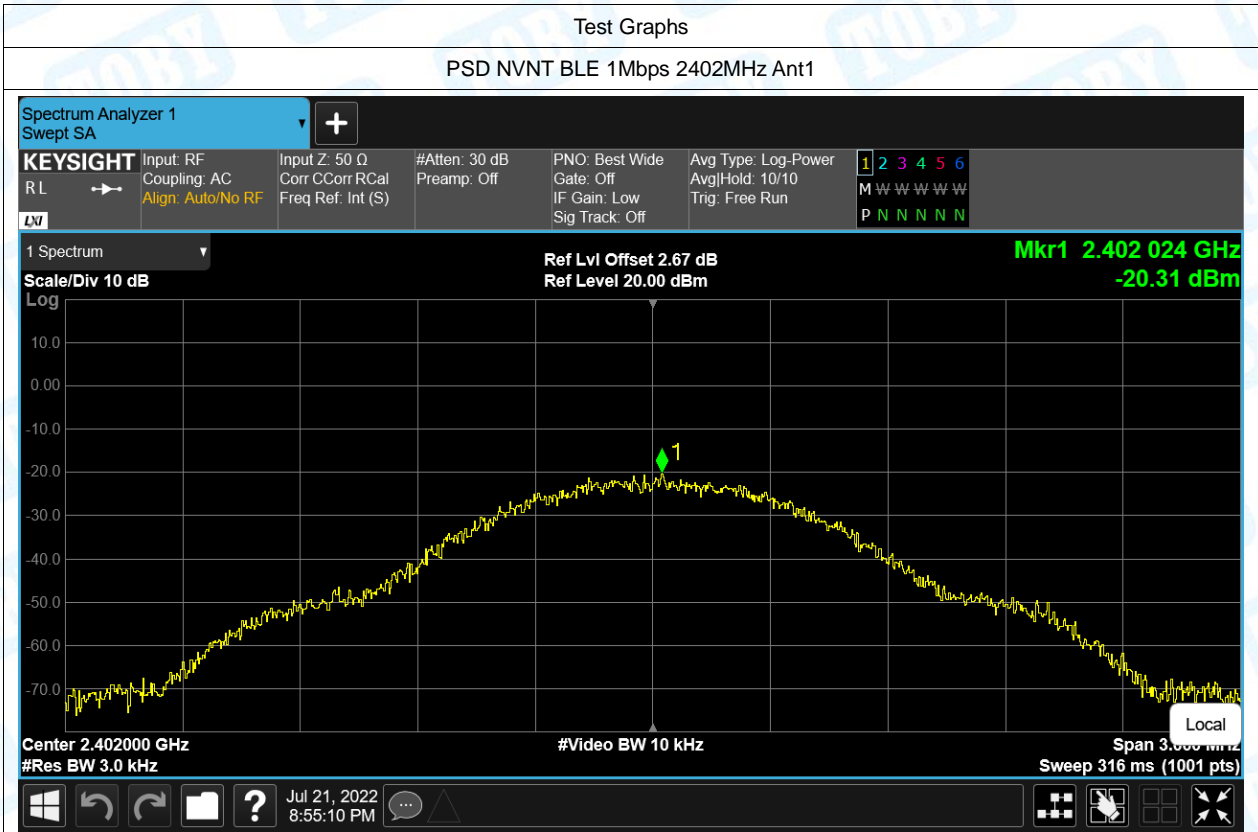
OBW NVNT BLE 1Mbps 2440MHz Ant1

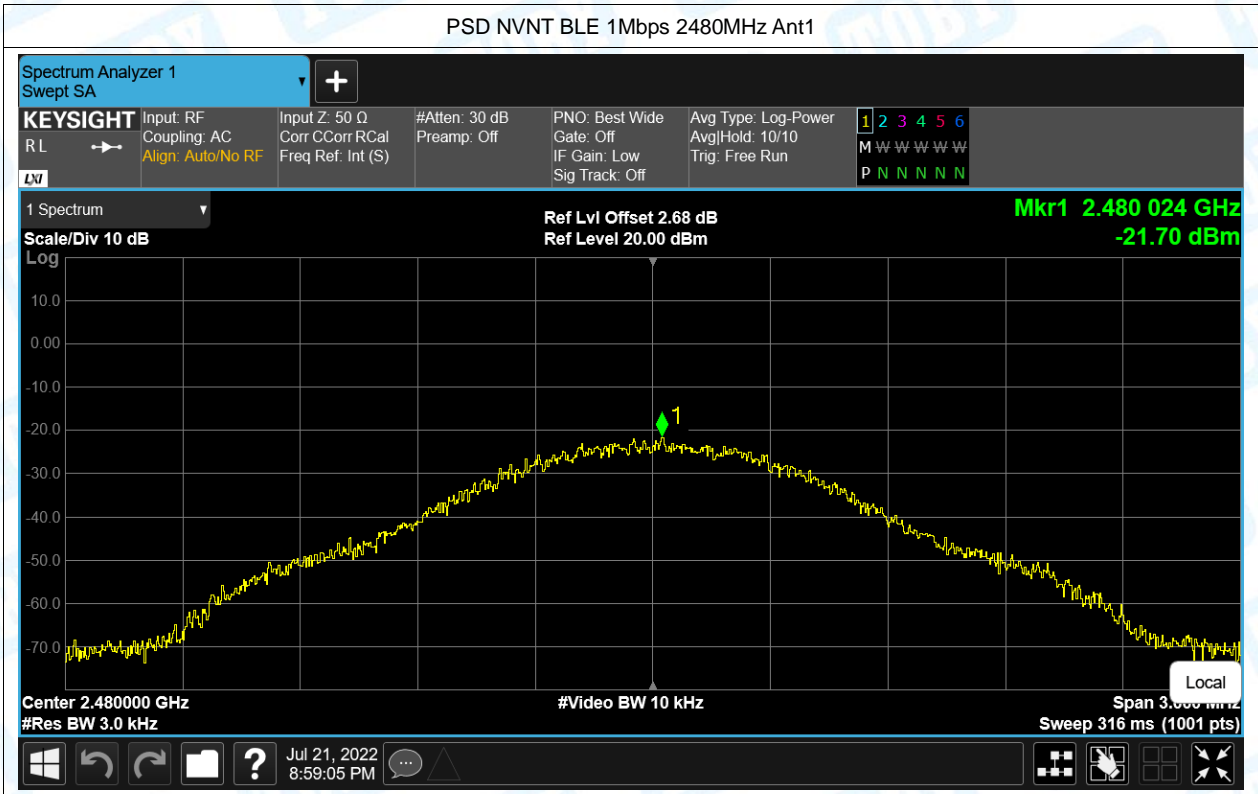




5. Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1Mbps	2402	Ant1	-20.313	8	Pass
NVNT	BLE 1Mbps	2440	Ant1	-21.222	8	Pass
NVNT	BLE 1Mbps	2480	Ant1	-21.702	8	Pass



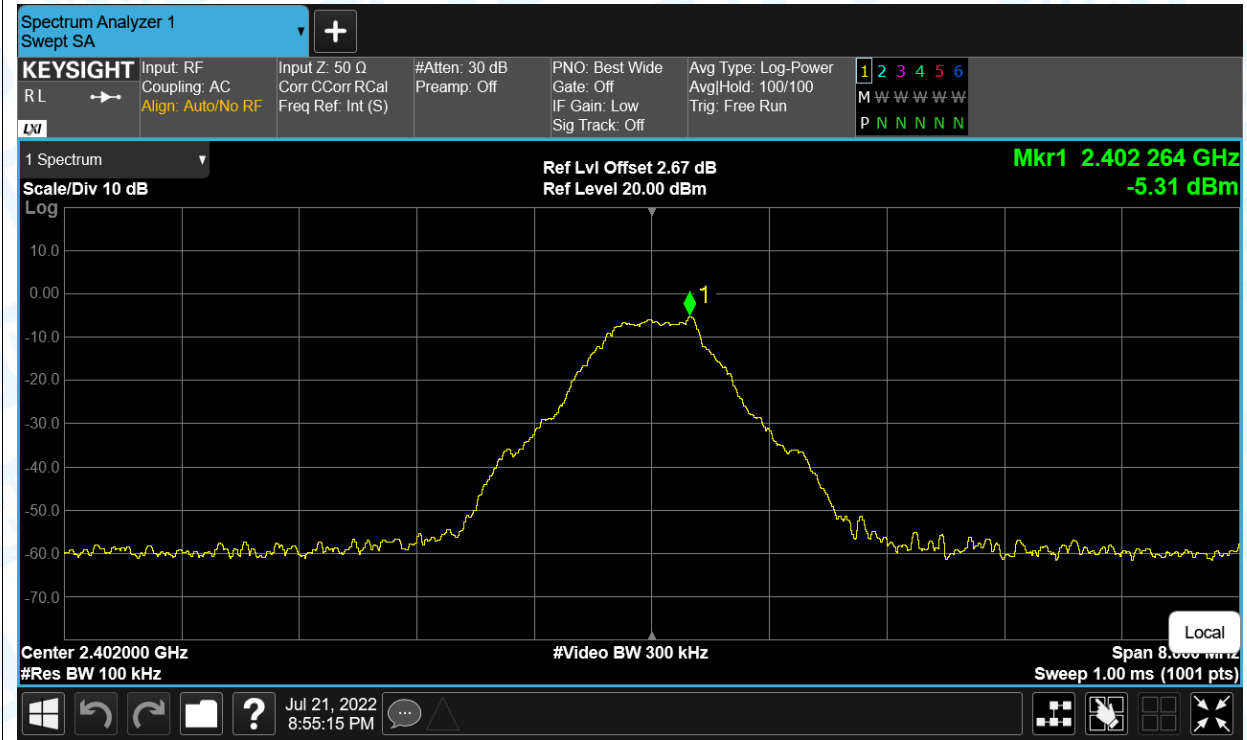


6. Band Edge

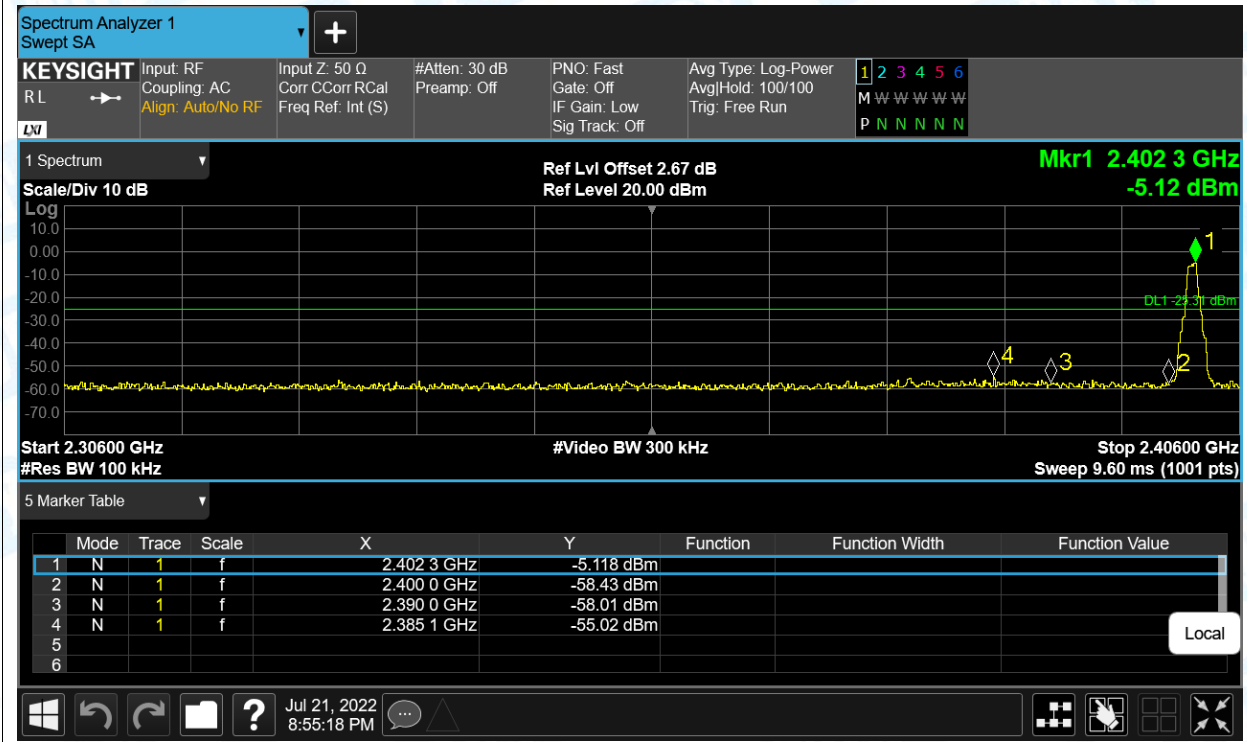
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1Mbps	2402	Ant1	-49.71	-20	Pass
NVNT	BLE 1Mbps	2480	Ant1	-49.08	-20	Pass

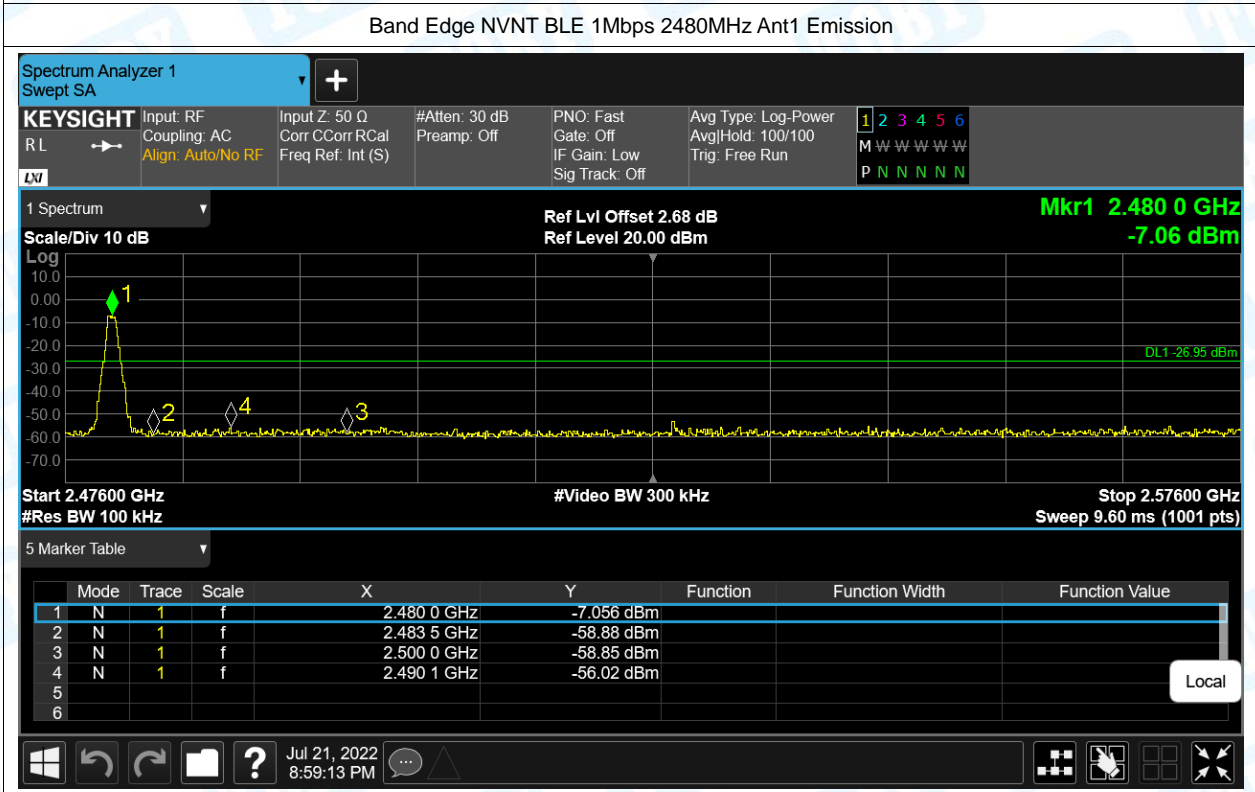
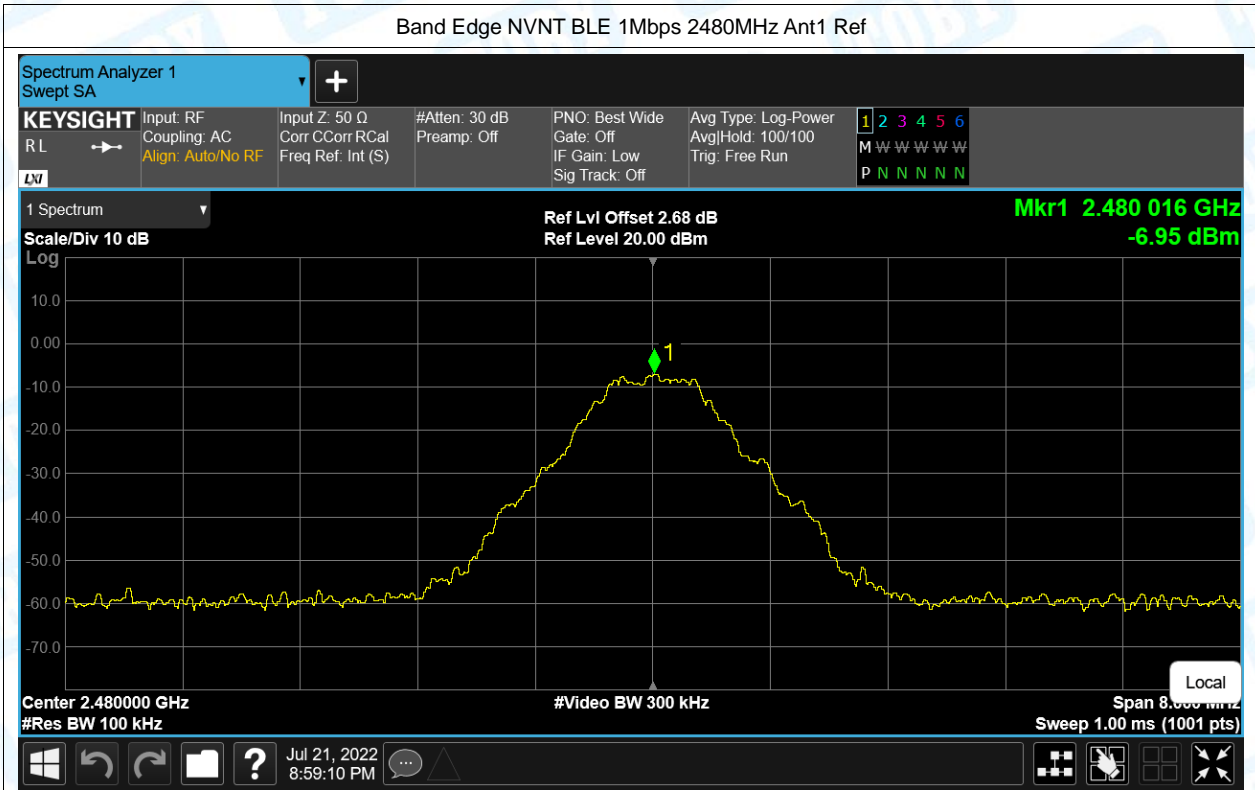
Test Graphs

Band Edge NVNT BLE 1Mbps 2402MHz Ant1 Ref



Band Edge NVNT BLE 1Mbps 2402MHz Ant1 Emission



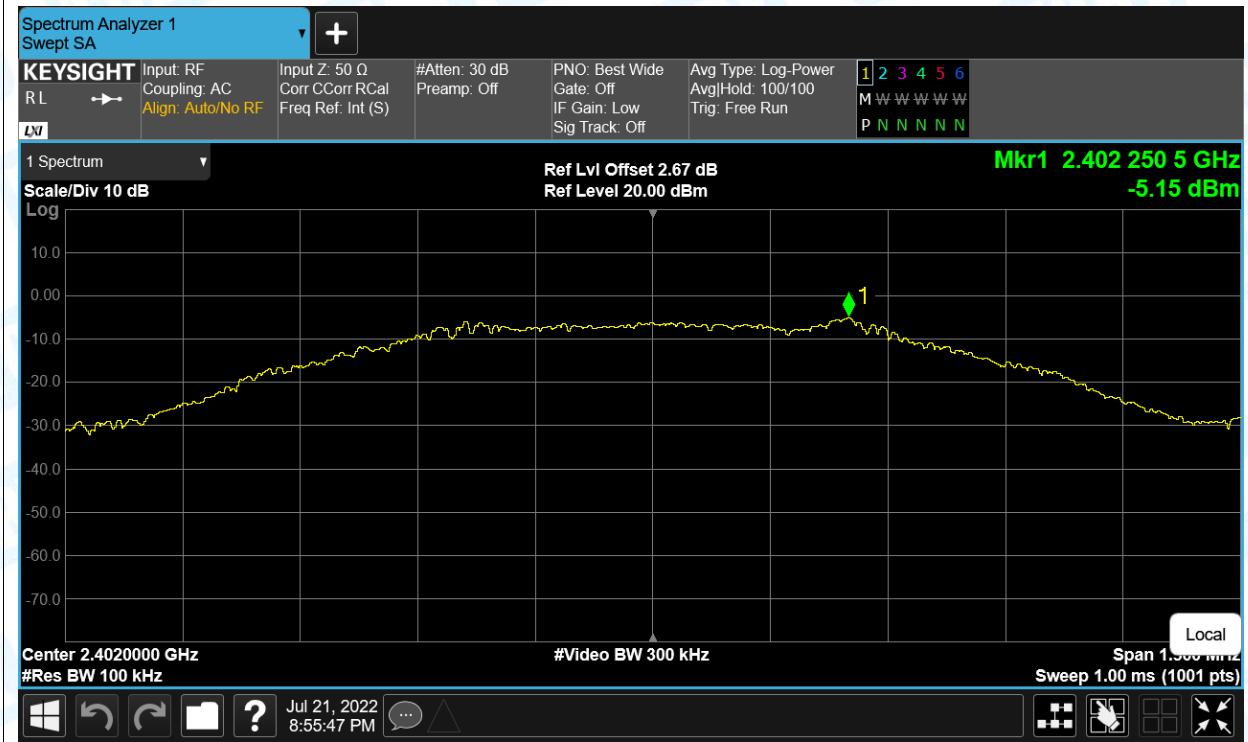


7. Conducted RF Spurious Emission

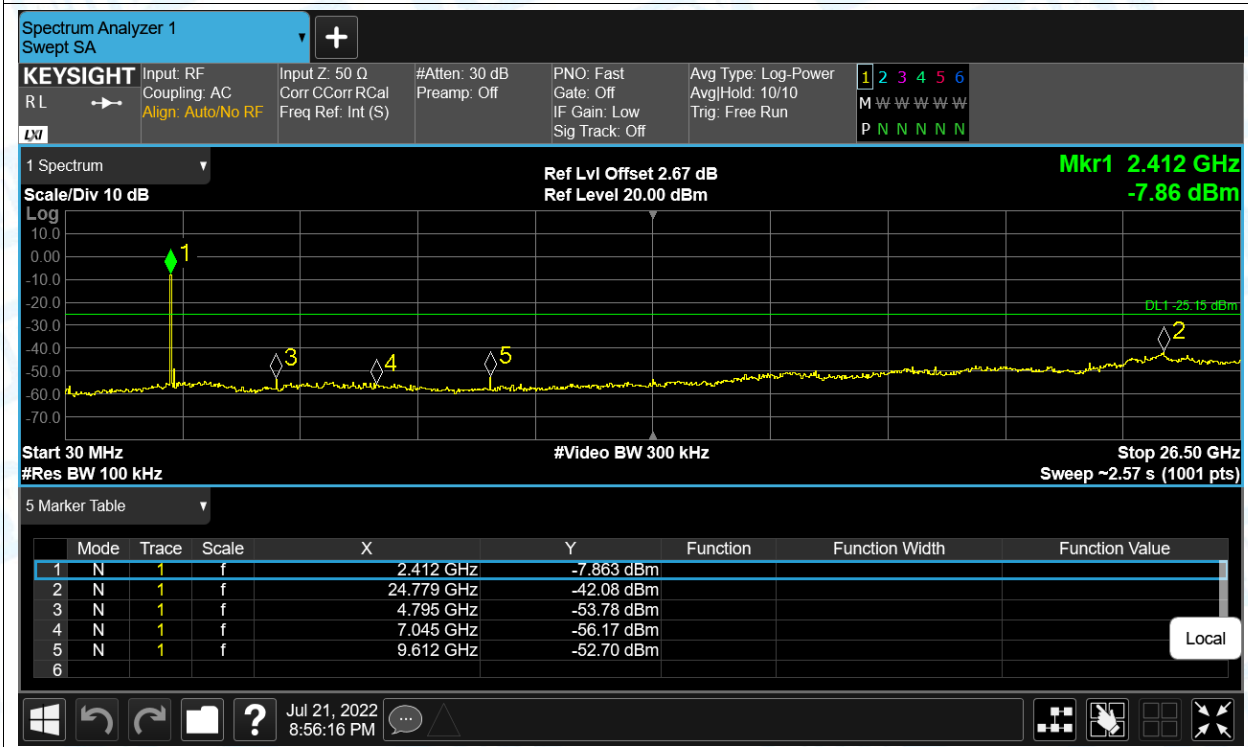
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1Mbps	2402	Ant1	-36.93	-20	Pass
NVNT	BLE 1Mbps	2440	Ant1	-34.68	-20	Pass
NVNT	BLE 1Mbps	2480	Ant1	-34.92	-20	Pass

Test Graphs

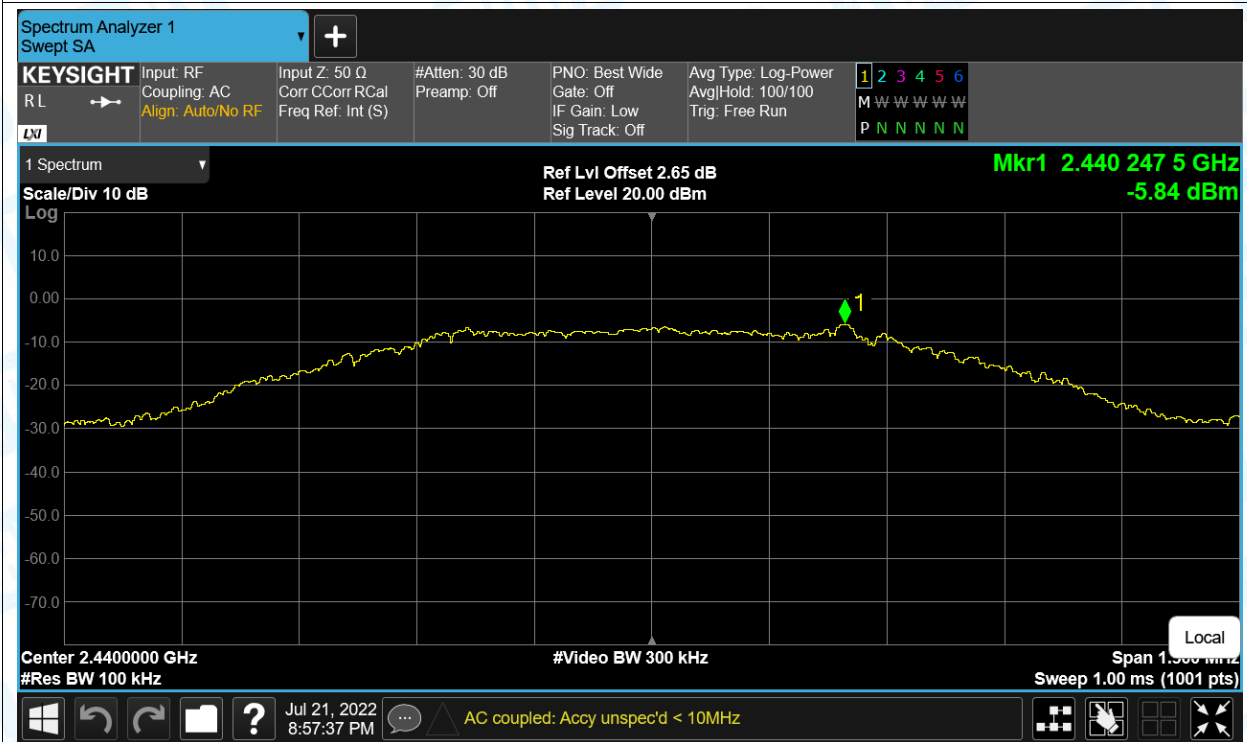
Tx. Spurious NVNT BLE 1Mbps 2402MHz Ant1 Ref



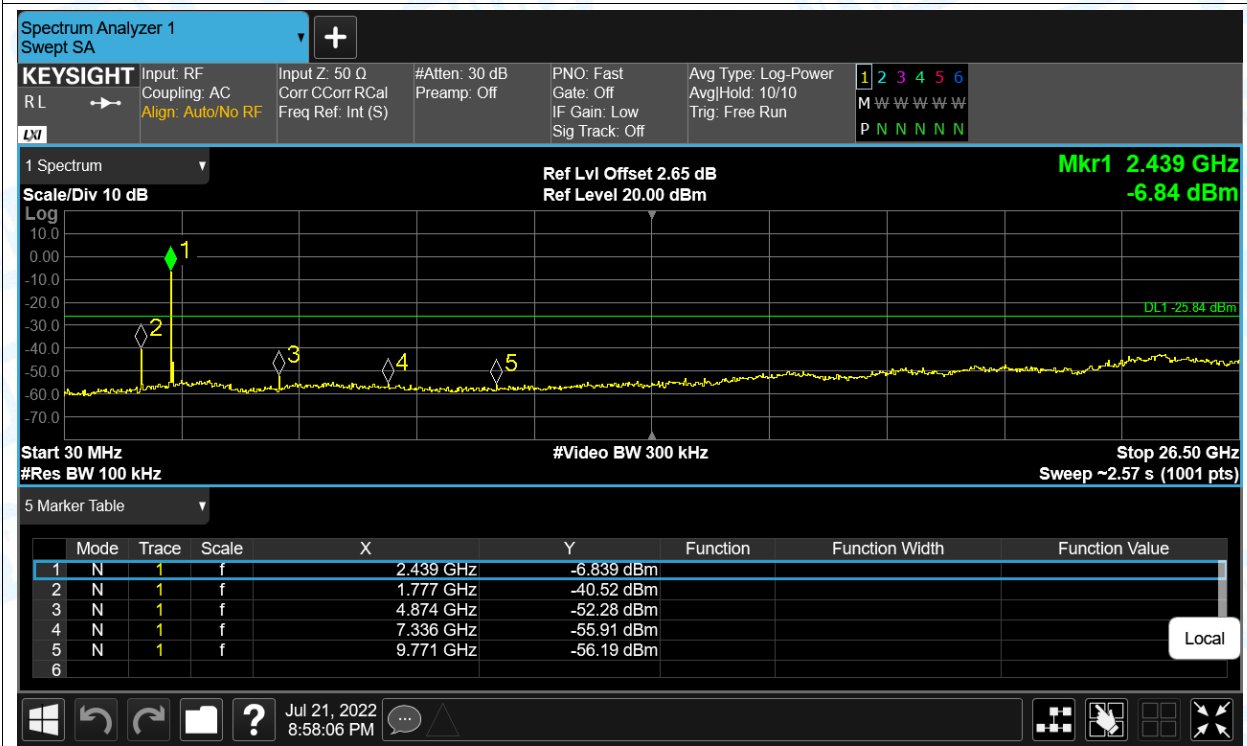
Tx. Spurious NVNT BLE 1Mbps 2402MHz Ant1 Emission



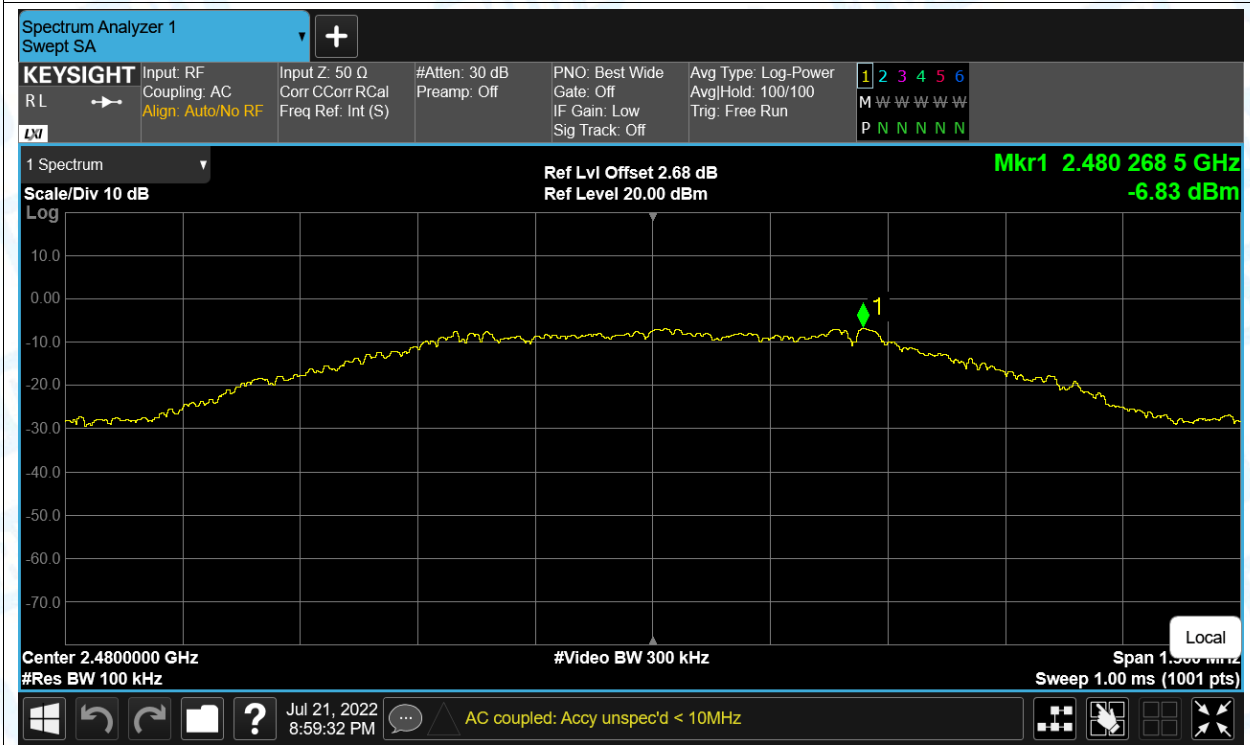
Tx. Spurious NVNT BLE 1Mbps 2440MHz Ant1 Ref



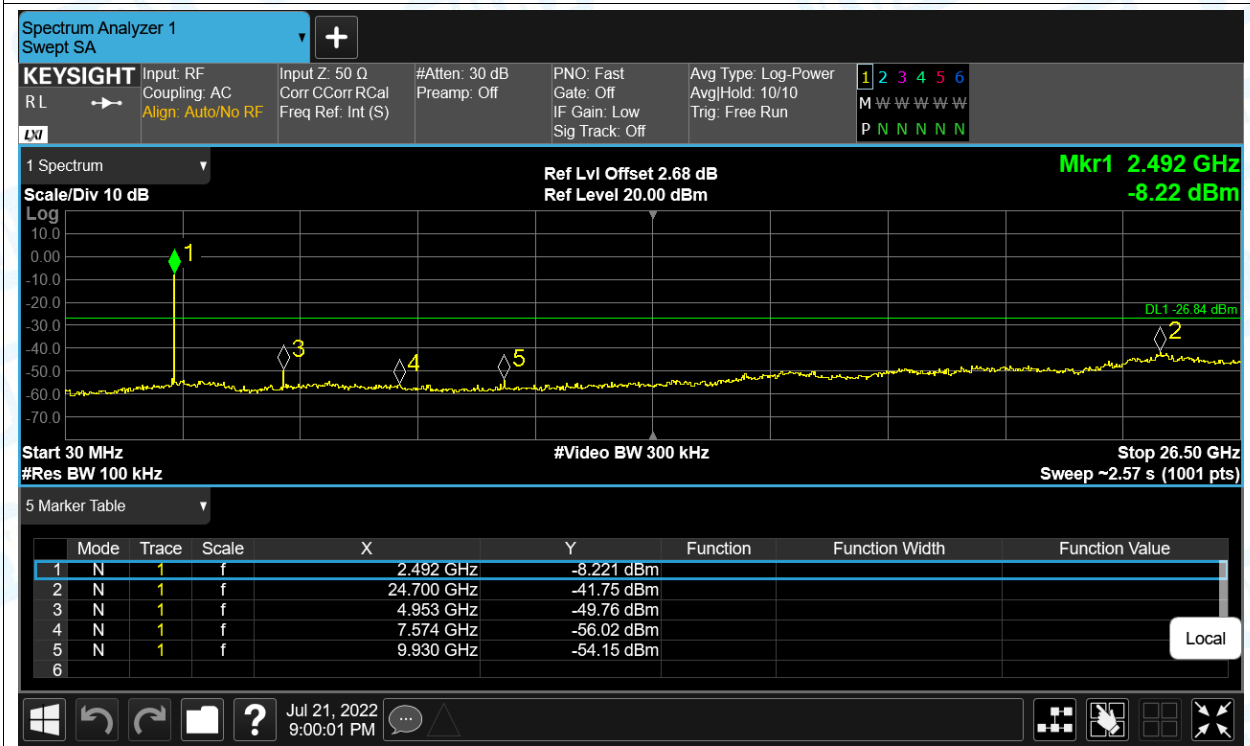
Tx. Spurious NVNT BLE 1Mbps 2440MHz Ant1 Emission



Tx. Spurious NVNT BLE 1Mbps 2480MHz Ant1 Ref



Tx. Spurious NVNT BLE 1Mbps 2480MHz Ant1 Emission

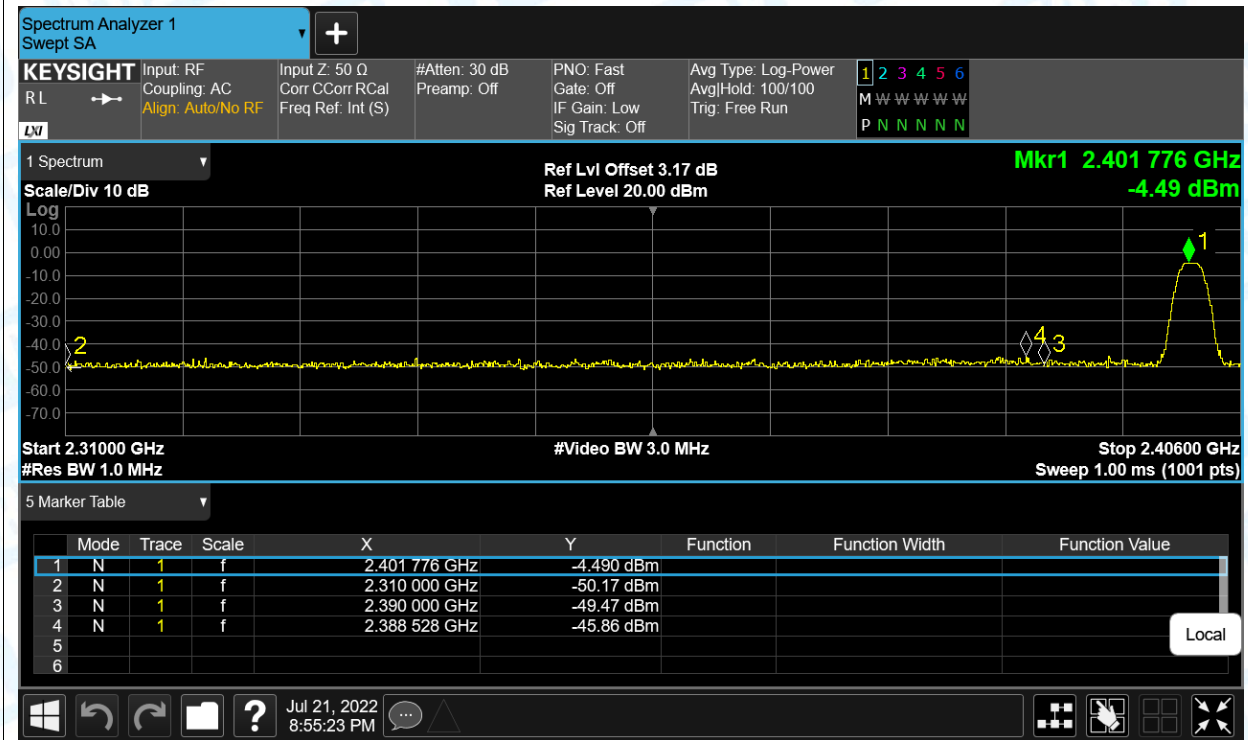


8. Restrict Band

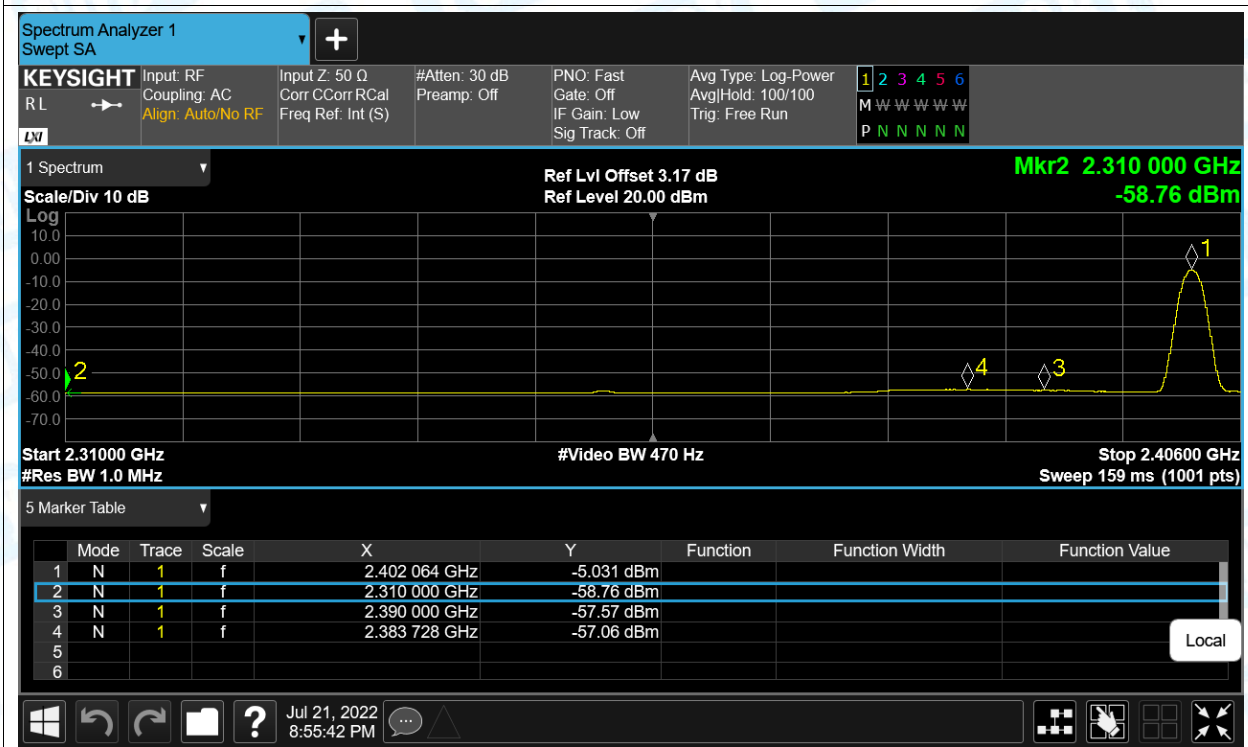
Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	BLE 1Mbps	2402	Ant1	2310	-50.17	2	47.09	Peak	74	Pass
NVNT	BLE 1Mbps	2402	Ant1	2310	-58.76	2	38.5	Average	54	Pass
NVNT	BLE 1Mbps	2402	Ant1	2388.528	-45.86	2	51.4	Peak	74	Pass
NVNT	BLE 1Mbps	2402	Ant1	2383.728	-57.06	2	40.2	Average	54	Pass
NVNT	BLE 1Mbps	2402	Ant1	2390	-47.87	2	49.39	Peak	74	Pass
NVNT	BLE 1Mbps	2402	Ant1	2390	-57.57	2	39.69	Average	54	Pass
NVNT	BLE 1Mbps	2480	Ant1	2483.5	-48.03	2	49.23	Peak	74	Pass
NVNT	BLE 1Mbps	2480	Ant1	2483.5	-58.32	2	38.94	Average	54	Pass
NVNT	BLE 1Mbps	2480	Ant1	2497.36	-44.91	2	52.35	Peak	74	Pass
NVNT	BLE 1Mbps	2480	Ant1	2498.8	-57.25	2	40.01	Average	54	Pass
NVNT	BLE 1Mbps	2480	Ant1	2500	-47.72	2	49.54	Peak	74	Pass
NVNT	BLE 1Mbps	2480	Ant1	2500	-57.42	2	39.84	Average	54	Pass

Test Graphs

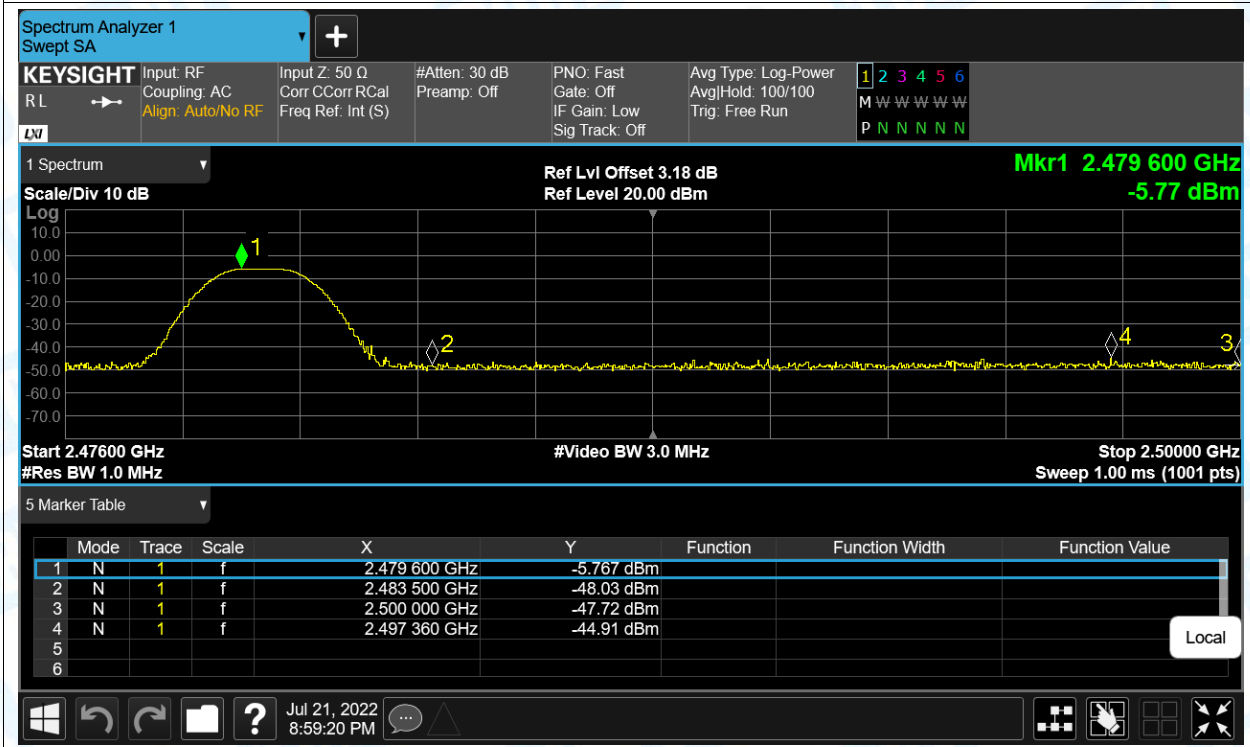
Restrict Band NVNT BLE 1Mbps 2402MHz Ant1 Peak



Restrict Band NVNT BLE 1Mbps 2402MHz Ant1 Average



Restrict Band NVNT BLE 1Mbps 2480MHz Ant1 Peak



Restrict Band NVNT BLE 1Mbps 2480MHz Ant1 Average

