

RF Test Data for Bluetooth LE (Conducted Measurements)

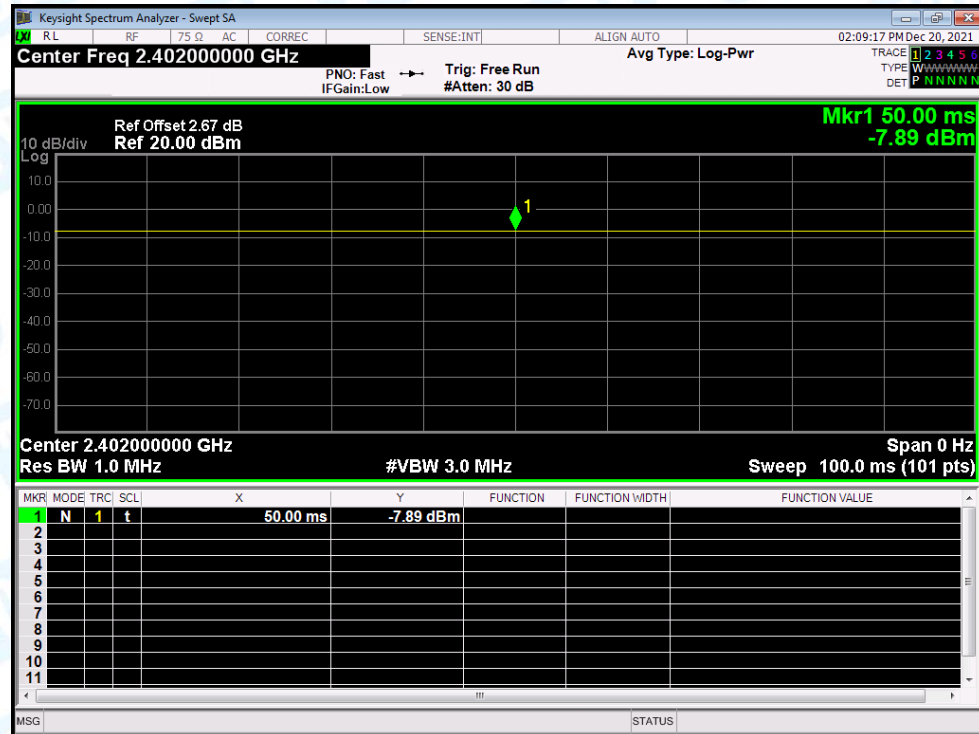
General Description of EUT	
Product Name:	LED Video Light
Test Model/HVIN:	RC120D
Sample ID:	20211130-16#2
Environmental Conditions	
Temperature:	24℃
Relative Humidity:	50%
Test Voltage:	DC19V
Test Engineer:	Hejingchang
Note: For a more detailed features description, please refer to the report TB-RF185649	

1. Duty Cycle

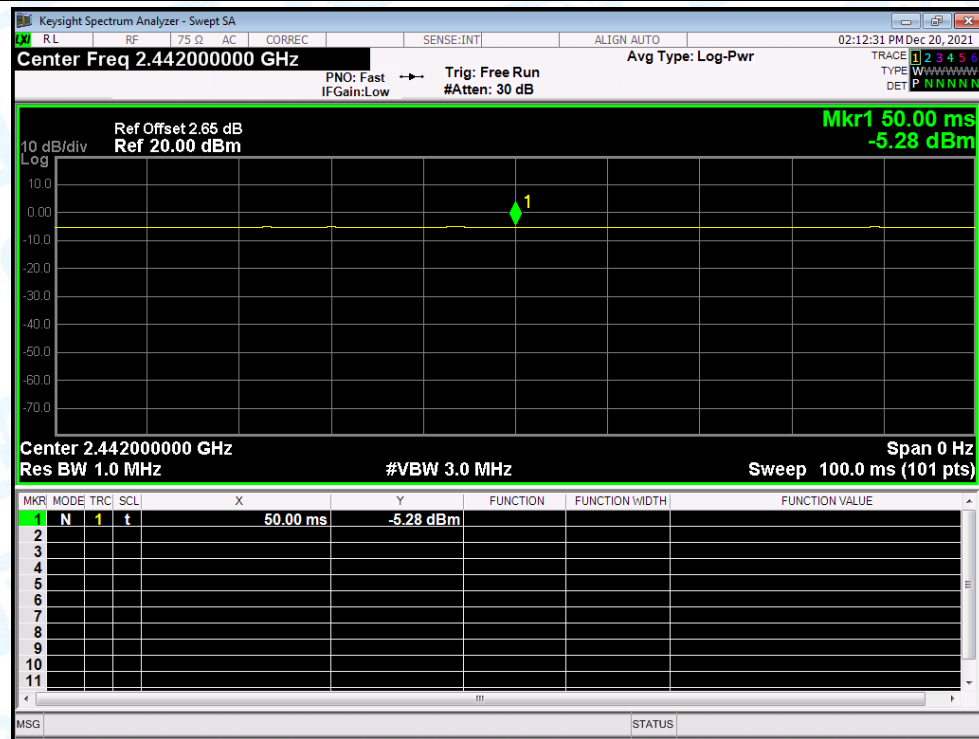
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	BLE 1Mbps	2402	Ant1	100	0	0
NVNT	BLE 1Mbps	2442	Ant1	100	0	0
NVNT	BLE 1Mbps	2480	Ant1	100	0	0

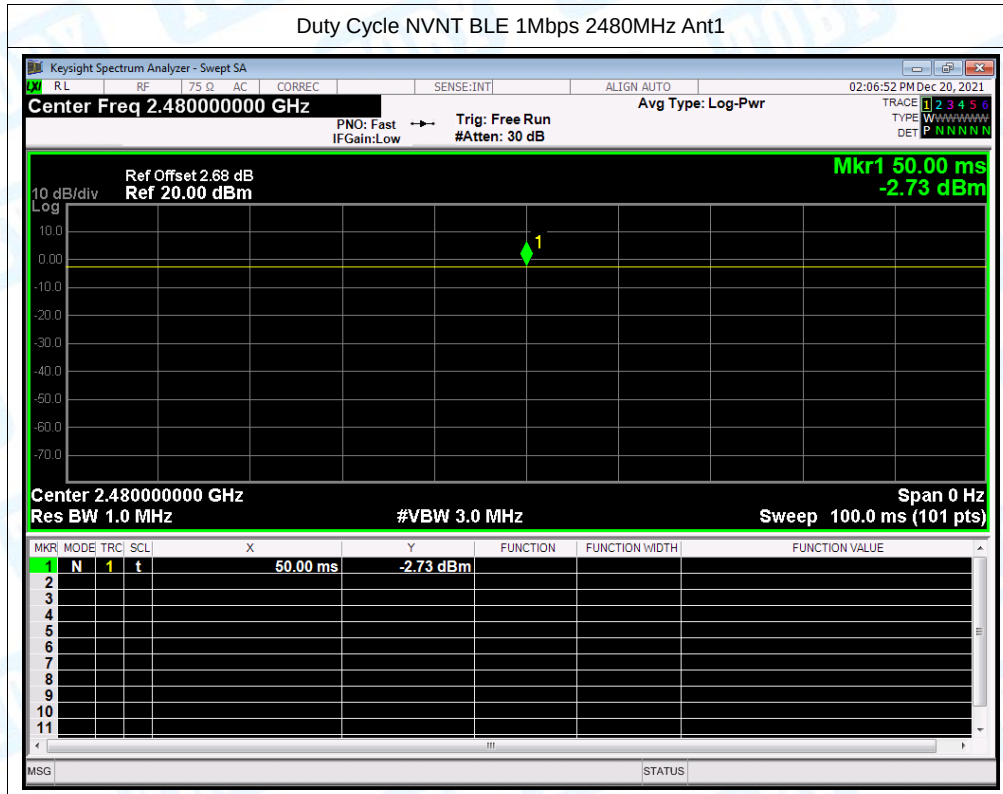
Test Graphs

Duty Cycle NVNT BLE 1Mbps 2402MHz Ant1



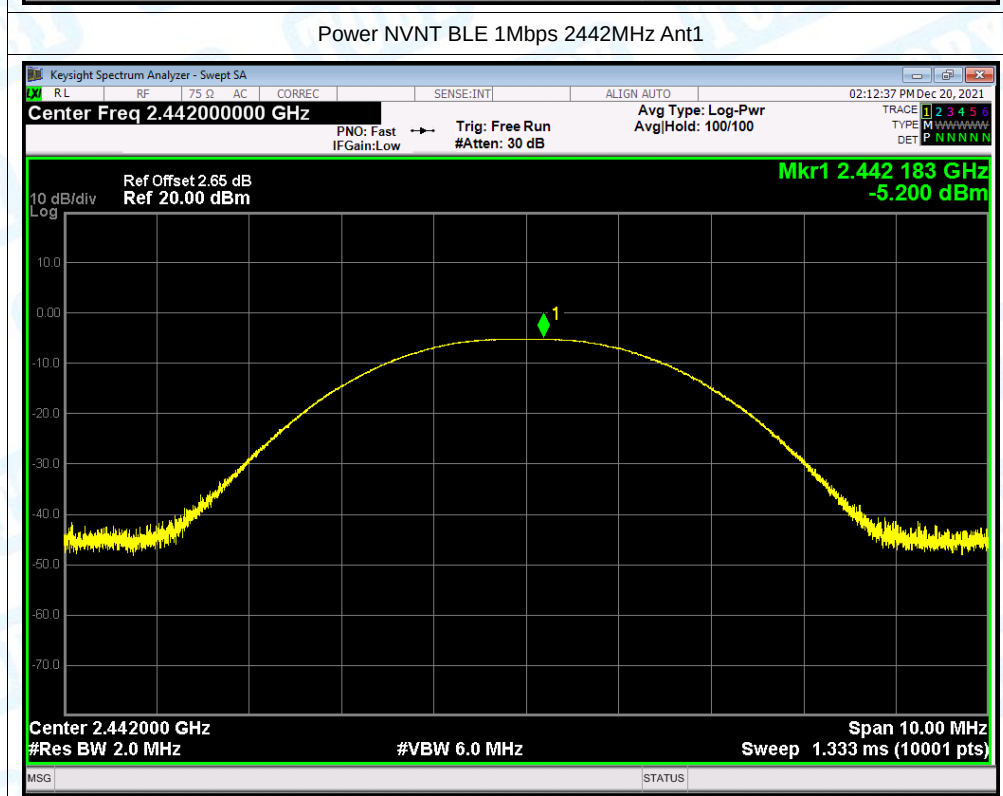
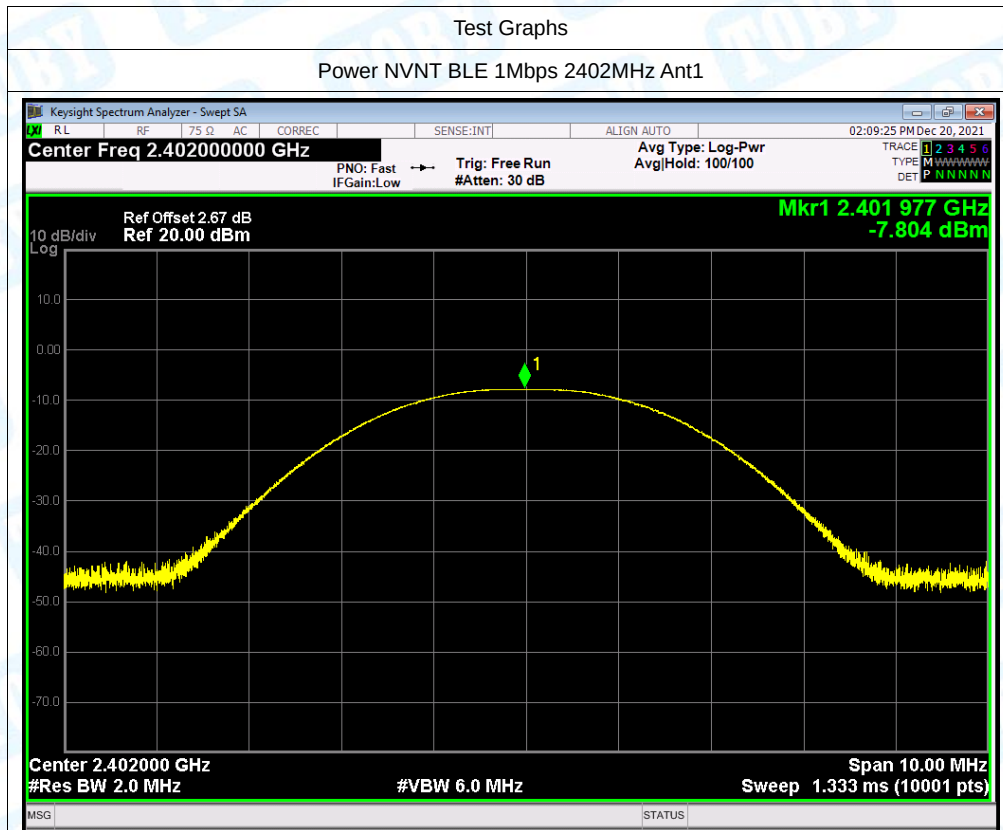
Duty Cycle NVNT BLE 1Mbps 2442MHz Ant1

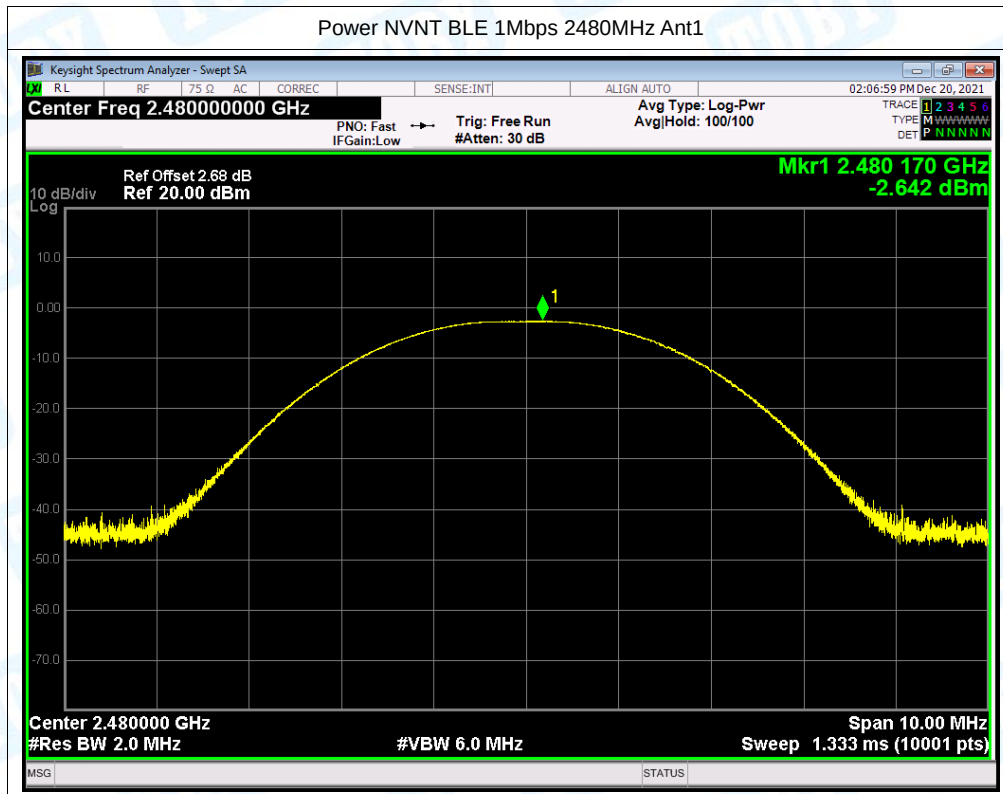




2.Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1Mbps	2402	Ant1	-7.804	0	-7.804	30	Pass
NVNT	BLE 1Mbps	2442	Ant1	-5.2	0	-5.2	30	Pass
NVNT	BLE 1Mbps	2480	Ant1	-2.642	0	-2.642	30	Pass



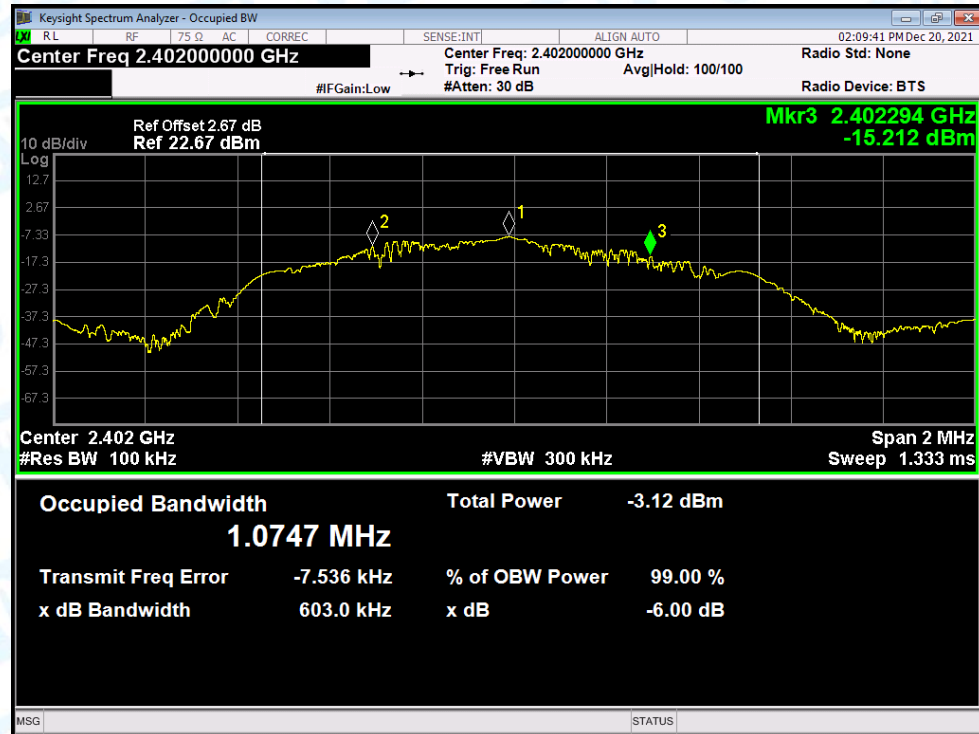


3.-6dB Bandwidth

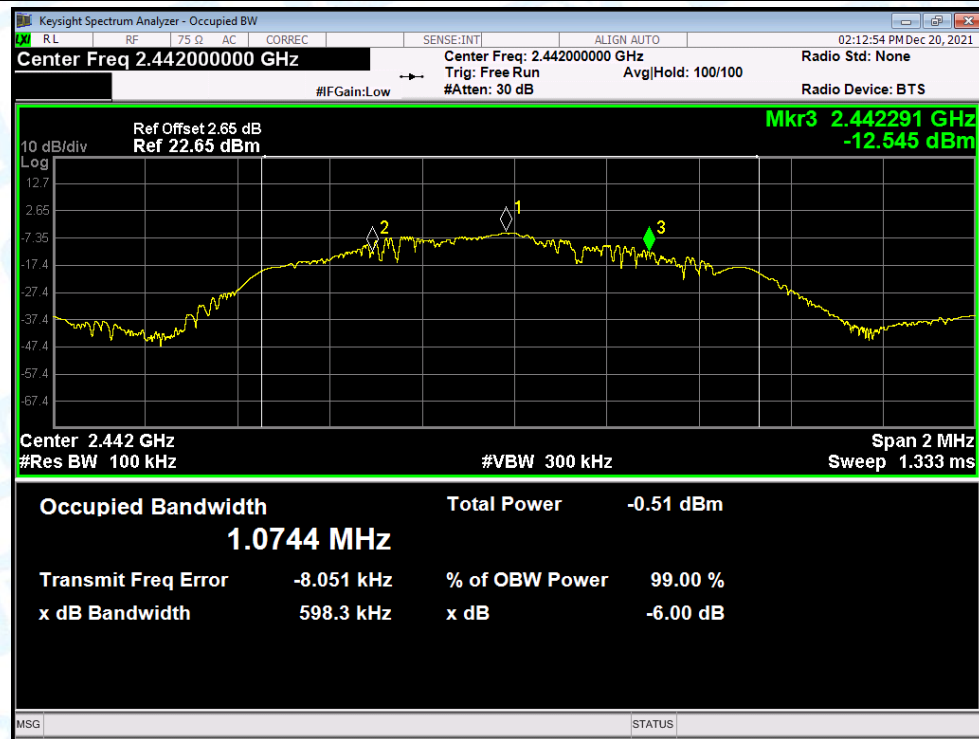
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1Mbps	2402	Ant1	0.6	0.5	Pass
NVNT	BLE 1Mbps	2442	Ant1	0.6	0.5	Pass
NVNT	BLE 1Mbps	2480	Ant1	0.6	0.5	Pass

Test Graphs

-6dB Bandwidth NVNT BLE 1Mbps 2402MHz Ant1



-6dB Bandwidth NVNT BLE 1Mbps 2442MHz Ant1



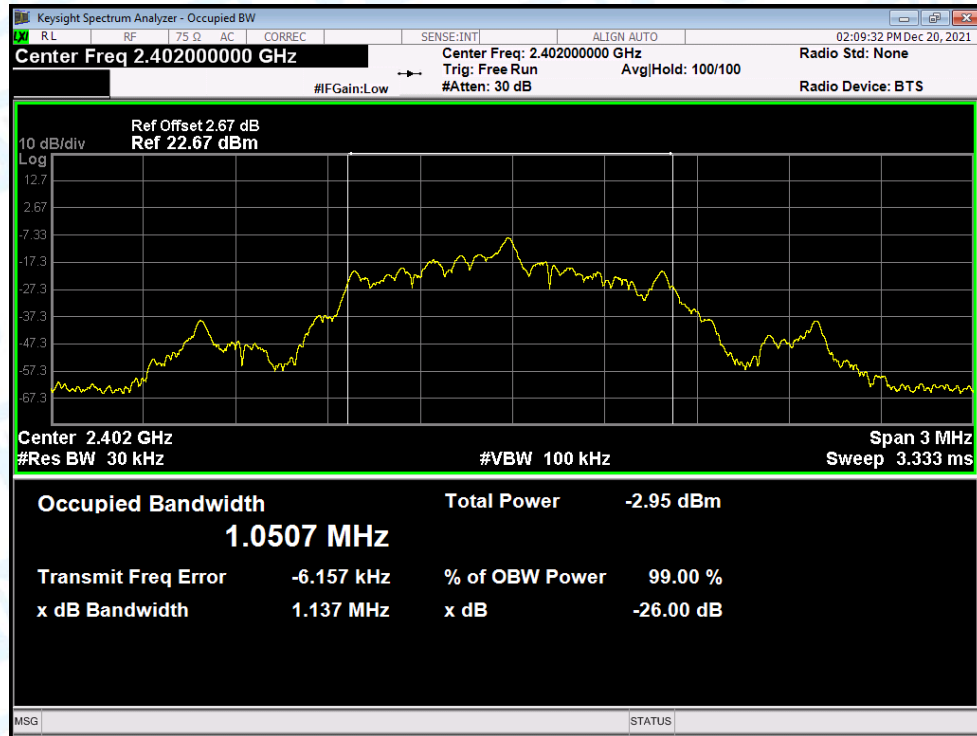


4.Occupied Channel Bandwidth

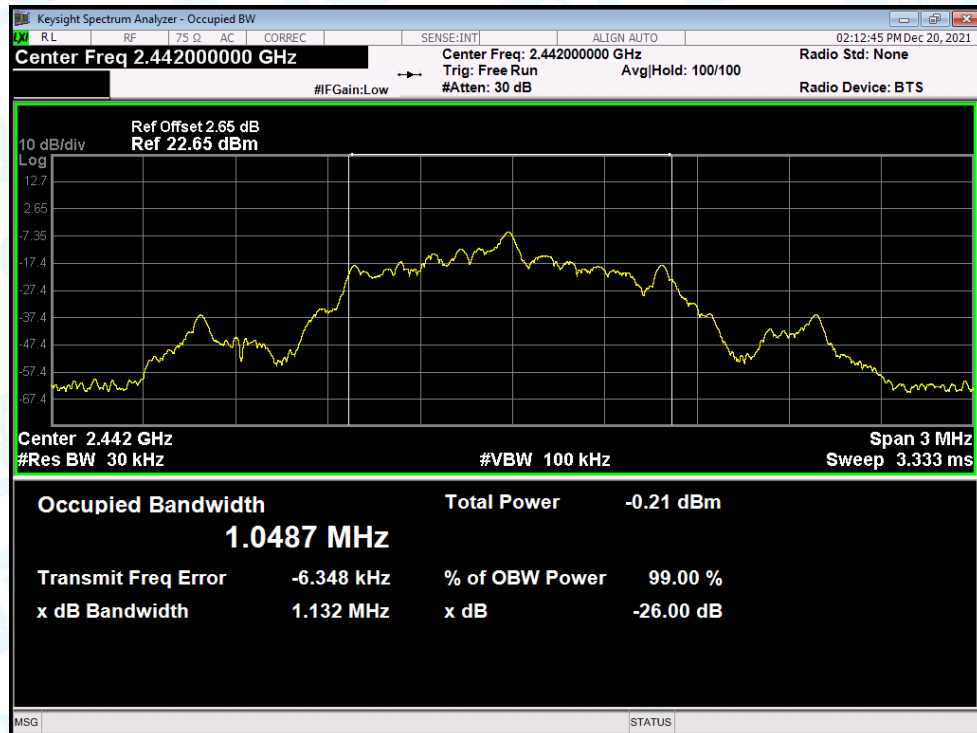
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	BLE 1Mbps	2402	Ant1	1.051
NVNT	BLE 1Mbps	2442	Ant1	1.049
NVNT	BLE 1Mbps	2480	Ant1	1.049

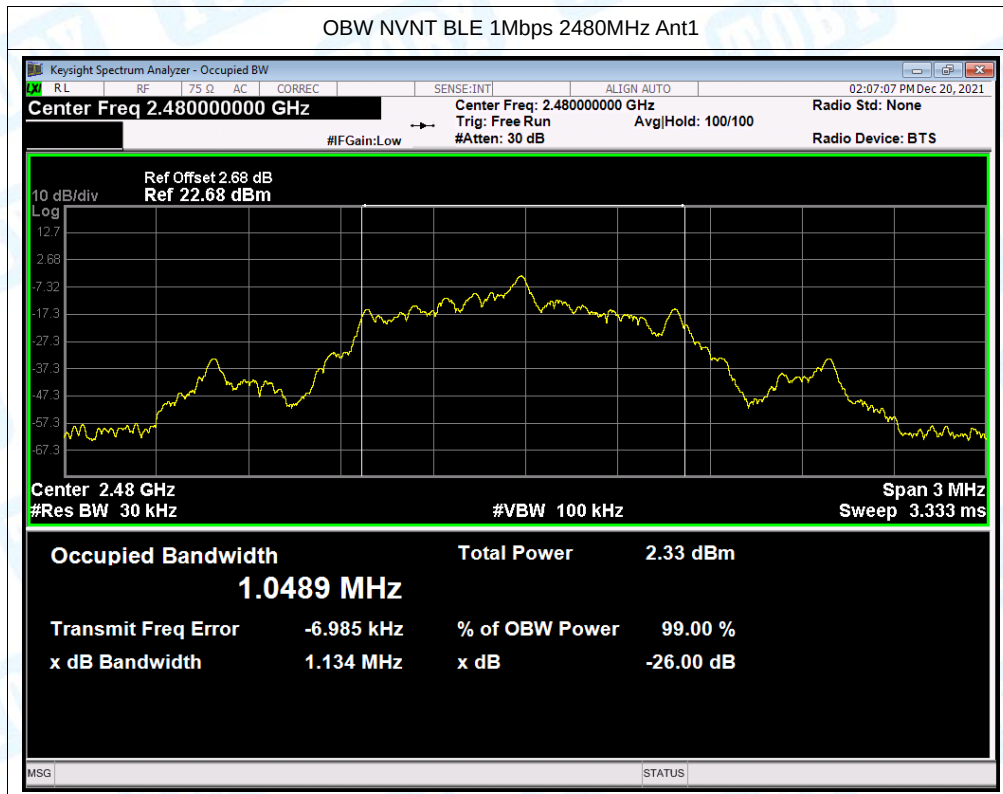
Test Graphs

OBW NVNT BLE 1Mbps 2402MHz Ant1



OBW NVNT BLE 1Mbps 2442MHz Ant1





5.Maximum Power Spectral Density Level

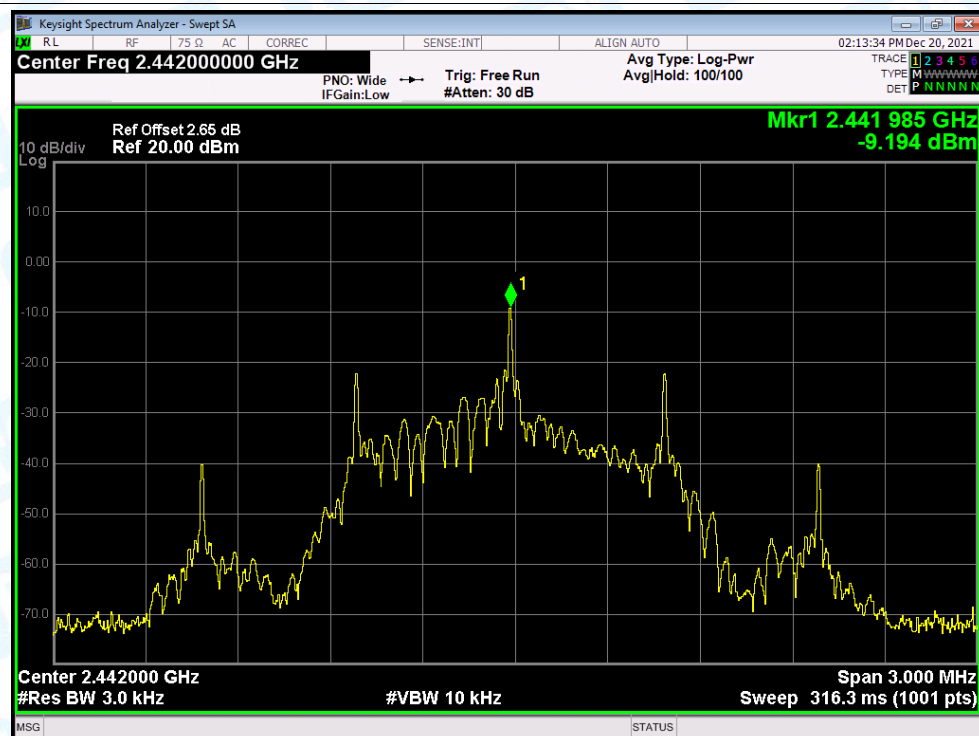
Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1Mbps	2402	Ant1	-11.784	8	Pass
NVNT	BLE 1Mbps	2442	Ant1	-9.194	8	Pass
NVNT	BLE 1Mbps	2480	Ant1	-6.672	8	Pass

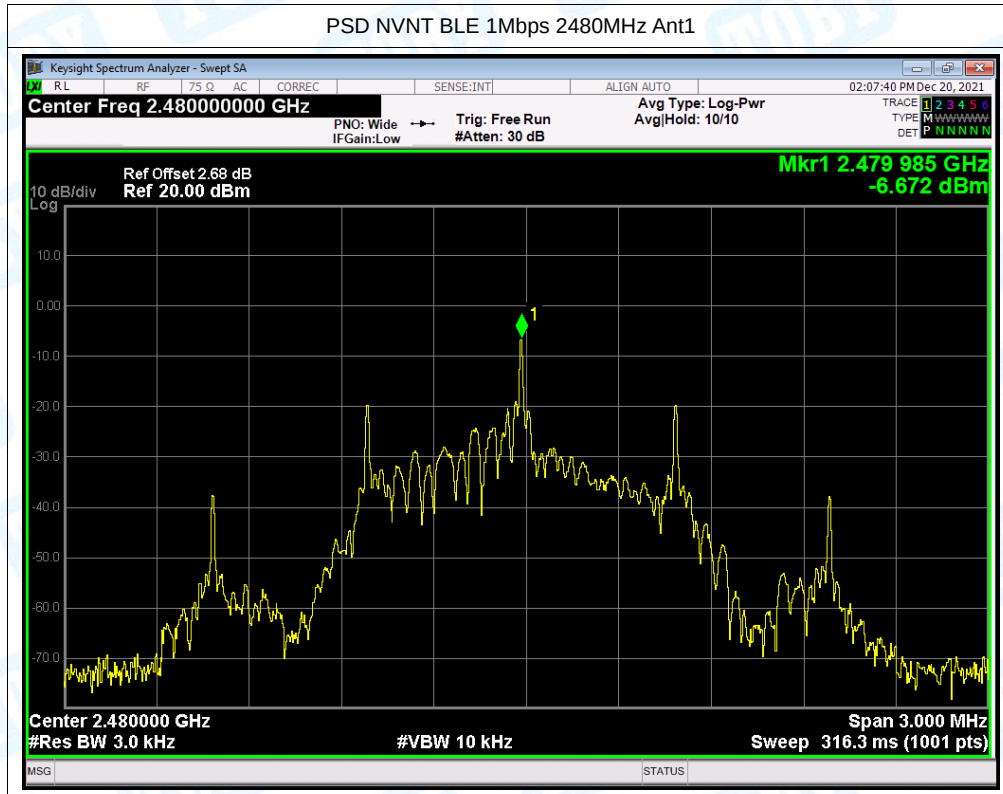
Test Graphs

PSD NVNT BLE 1Mbps 2402MHz Ant1



PSD NVNT BLE 1Mbps 2442MHz Ant1



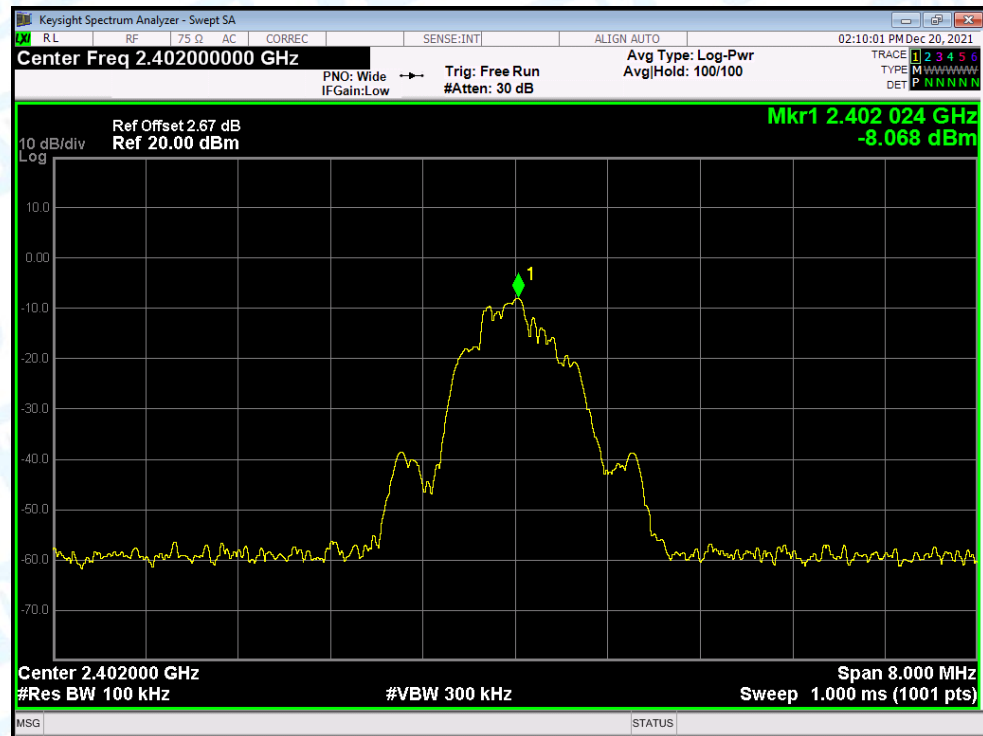


6.Band Edge

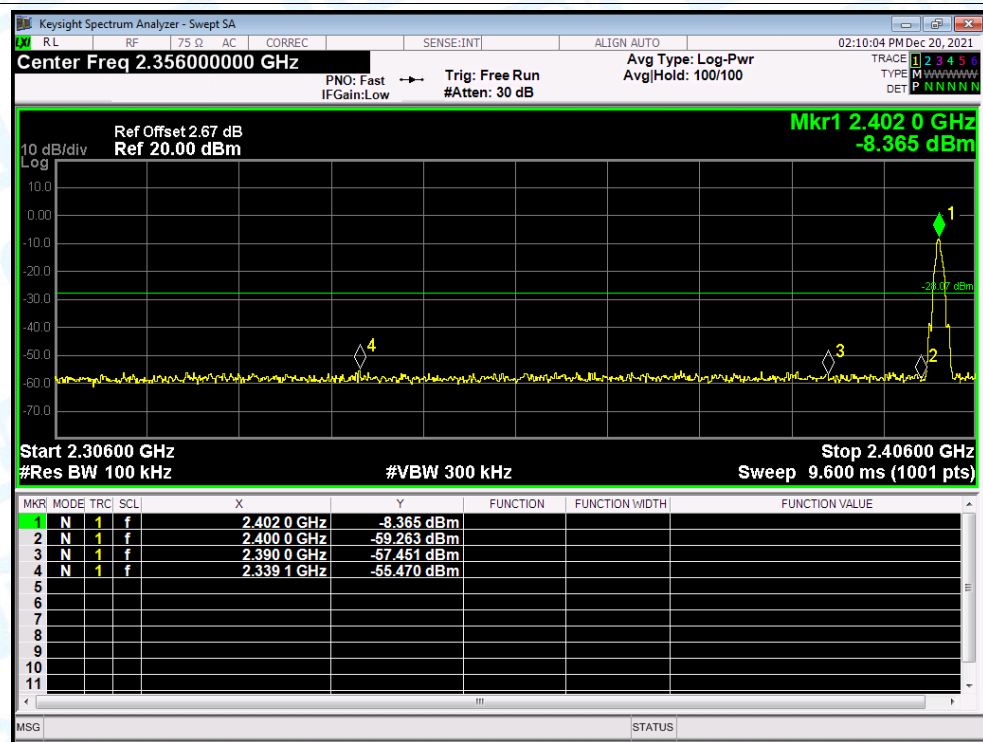
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1Mbps	2402	Ant1	-47.4	-20	Pass
NVNT	BLE 1Mbps	2480	Ant1	-51.92	-20	Pass

Test Graphs

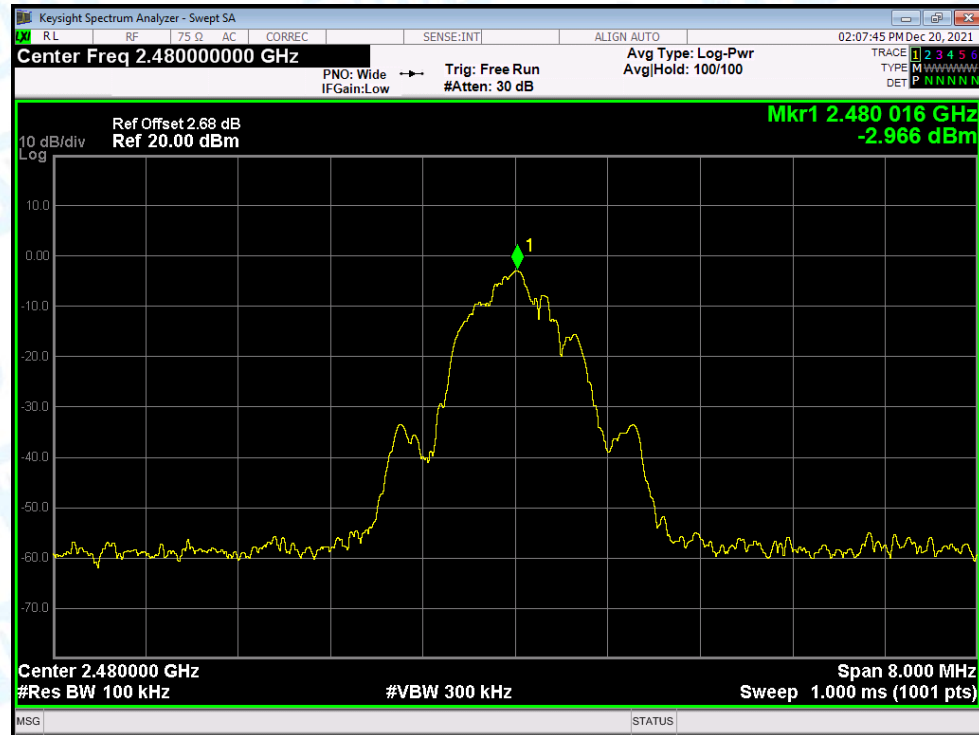
Band Edge NVNT BLE 1Mbps 2402MHz Ant1 Ref



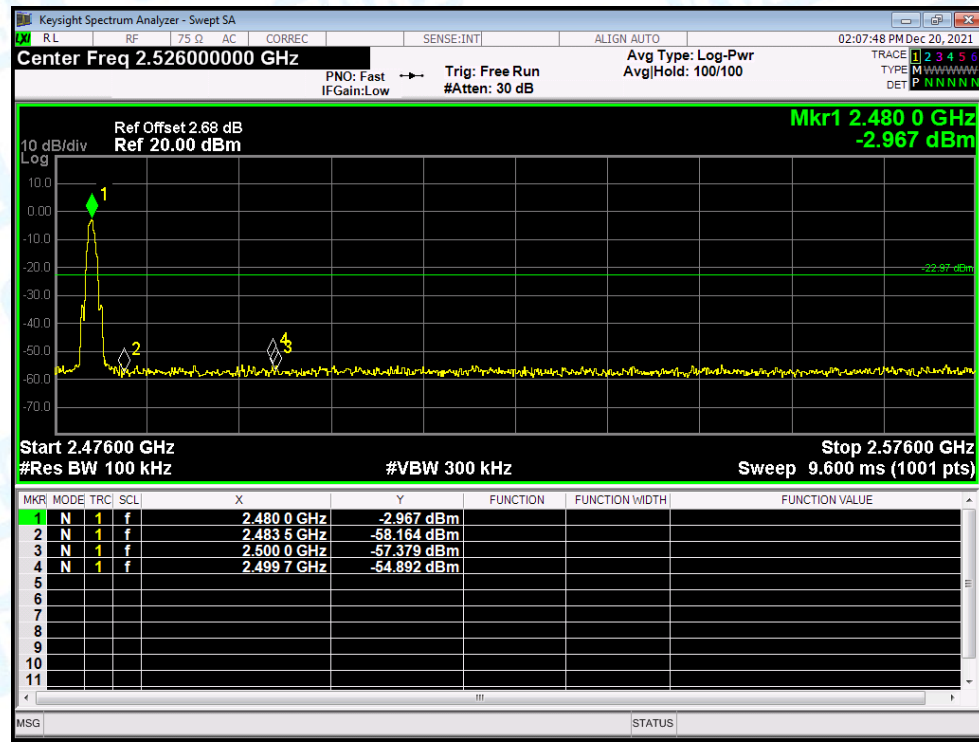
Band Edge NVNT BLE 1Mbps 2402MHz Ant1 Emission



Band Edge NVNT BLE 1Mbps 2480MHz Ant1 Ref

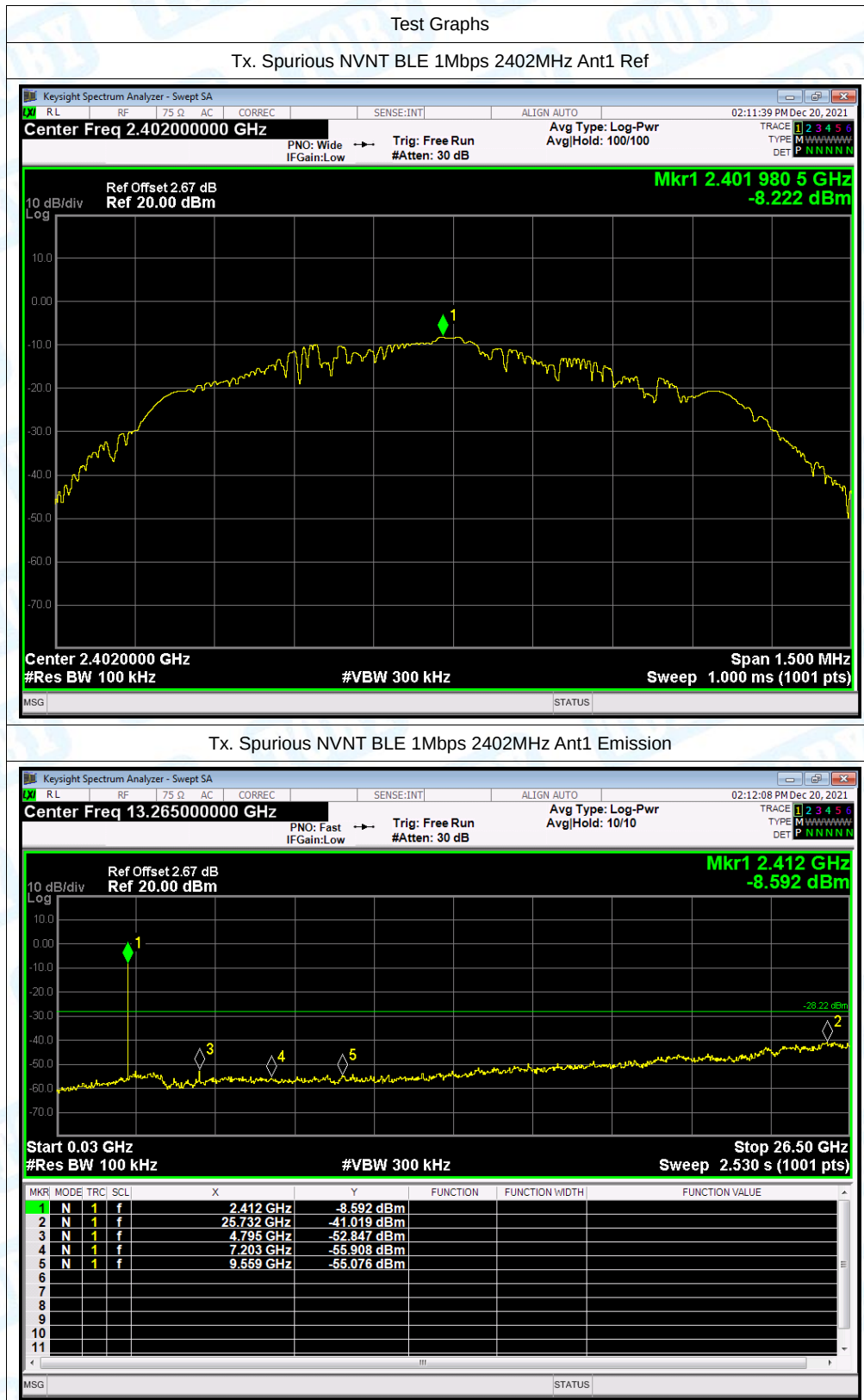


Band Edge NVNT BLE 1Mbps 2480MHz Ant1 Emission



7. Conducted RF Spurious Emission

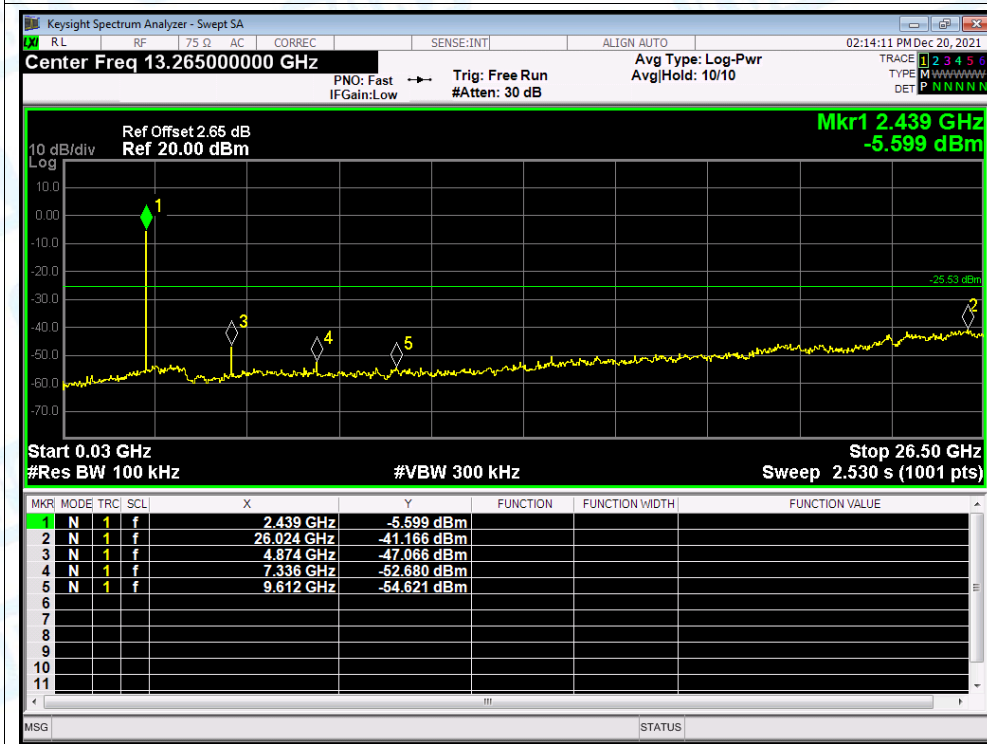
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1Mbps	2402	Ant1	-32.8	-20	Pass
NVNT	BLE 1Mbps	2442	Ant1	-35.64	-20	Pass
NVNT	BLE 1Mbps	2480	Ant1	-36.53	-20	Pass



Tx. Spurious NVNT BLE 1Mbps 2442MHz Ant1 Ref



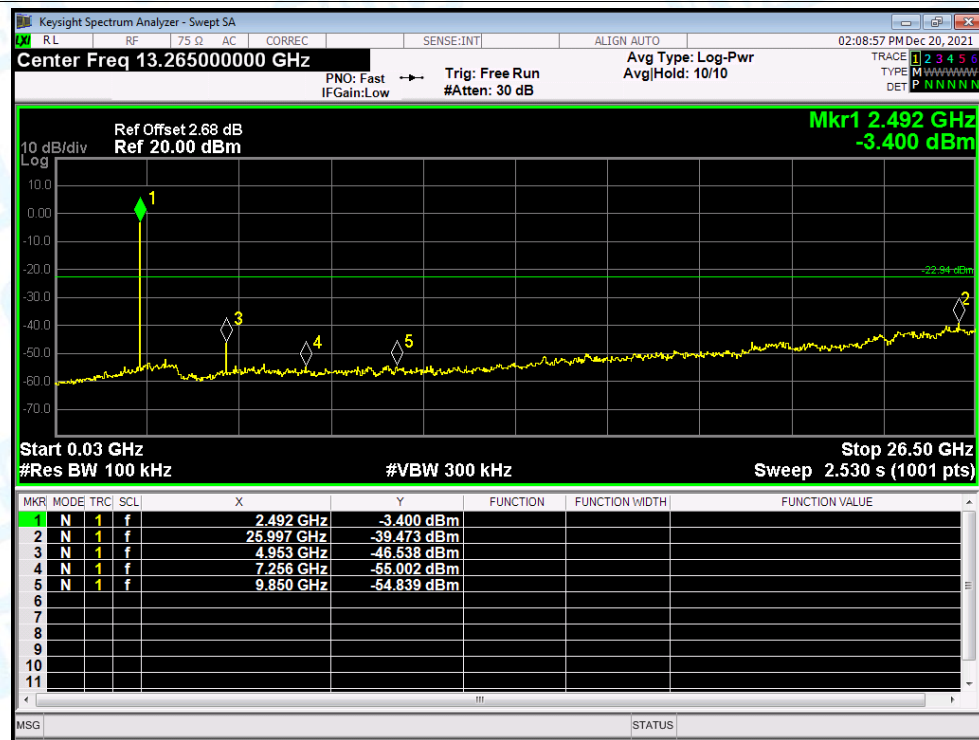
Tx. Spurious NVNT BLE 1Mbps 2442MHz Ant1 Emission



Tx. Spurious NVNT BLE 1Mbps 2480MHz Ant1 Ref



Tx. Spurious NVNT BLE 1Mbps 2480MHz Ant1 Emission

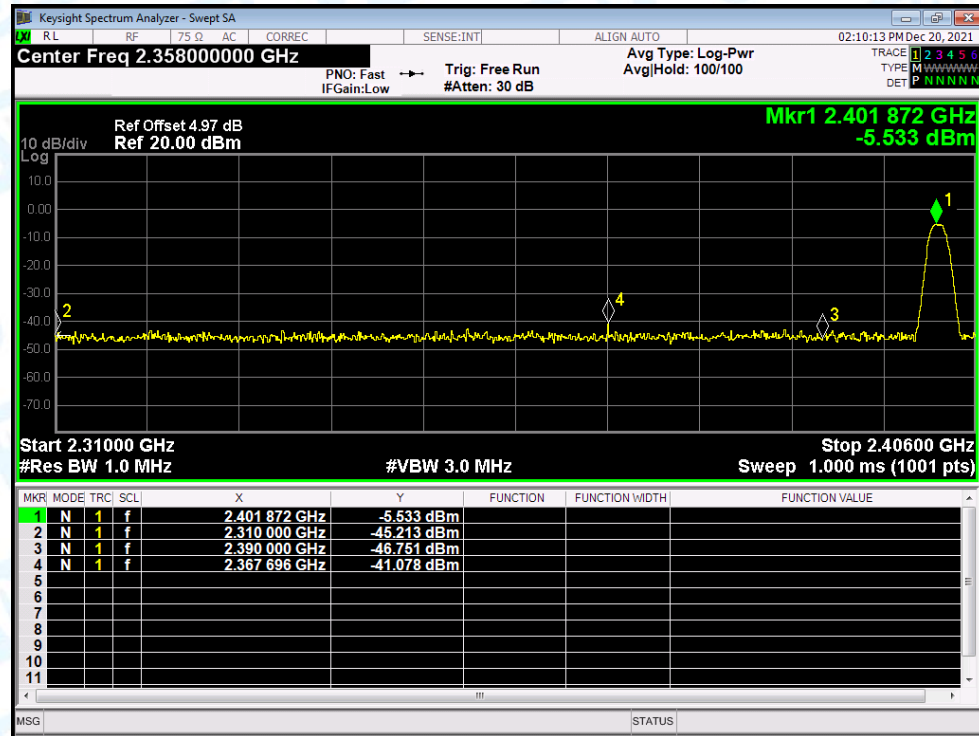


8.Restrict Band

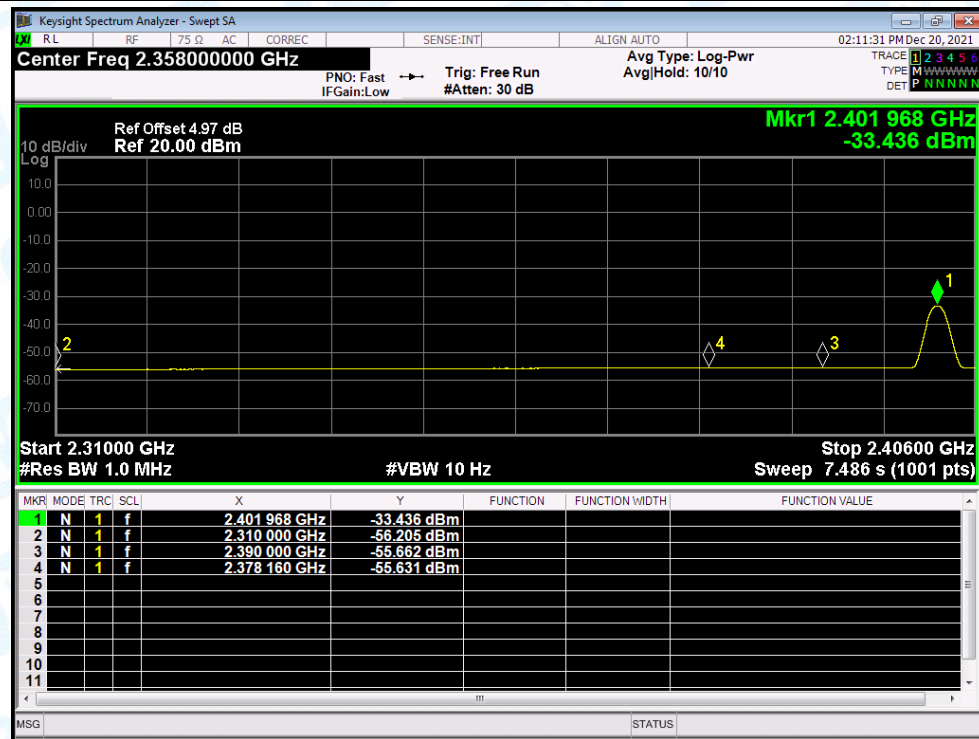
Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	BLE 1Mbps	2402	Ant1	2310	-45.21	2.3	52.35	Peak	74	Pass
NVNT	BLE 1Mbps	2402	Ant1	2310	-56.2	2.3	41.36	Average	54	Pass
NVNT	BLE 1Mbps	2402	Ant1	2367.696	-41.08	2.3	56.48	Peak	74	Pass
NVNT	BLE 1Mbps	2402	Ant1	2378.16	-55.63	2.3	41.93	Average	54	Pass
NVNT	BLE 1Mbps	2402	Ant1	2390	-45.92	2.3	51.64	Peak	74	Pass
NVNT	BLE 1Mbps	2402	Ant1	2390	-55.66	2.3	41.9	Average	54	Pass
NVNT	BLE 1Mbps	2480	Ant1	2483.5	-43.18	2.3	54.38	Peak	74	Pass
NVNT	BLE 1Mbps	2480	Ant1	2483.5	-54.92	2.3	42.64	Average	54	Pass
NVNT	BLE 1Mbps	2480	Ant1	2491.768	-42.5	2.3	55.06	Peak	74	Pass
NVNT	BLE 1Mbps	2480	Ant1	2483.512	-54.92	2.3	42.64	Average	54	Pass
NVNT	BLE 1Mbps	2480	Ant1	2500	-43.16	2.3	54.4	Peak	74	Pass
NVNT	BLE 1Mbps	2480	Ant1	2500	-54.99	2.3	42.57	Average	54	Pass

Test Graphs

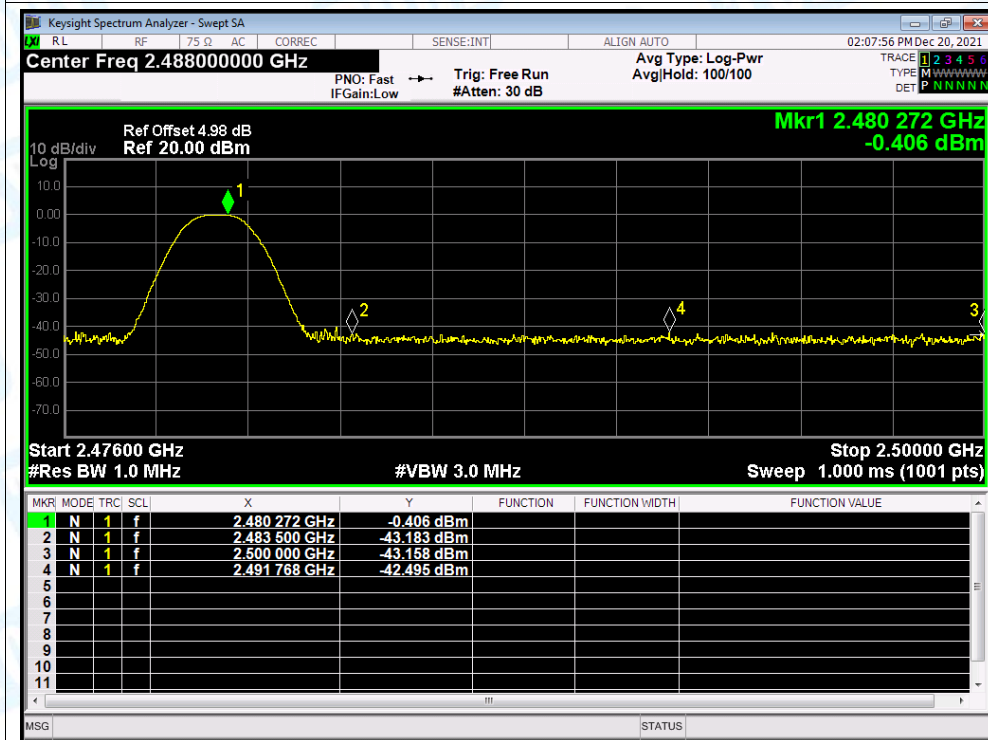
Restrict Band NVNT BLE 1Mbps 2402MHz Ant1 Peak



Restrict Band NVNT BLE 1Mbps 2402MHz Ant1 Average



Restrict Band NVNT BLE 1Mbps 2480MHz Ant1 Peak



Restrict Band NVNT BLE 1Mbps 2480MHz Ant1 Average

