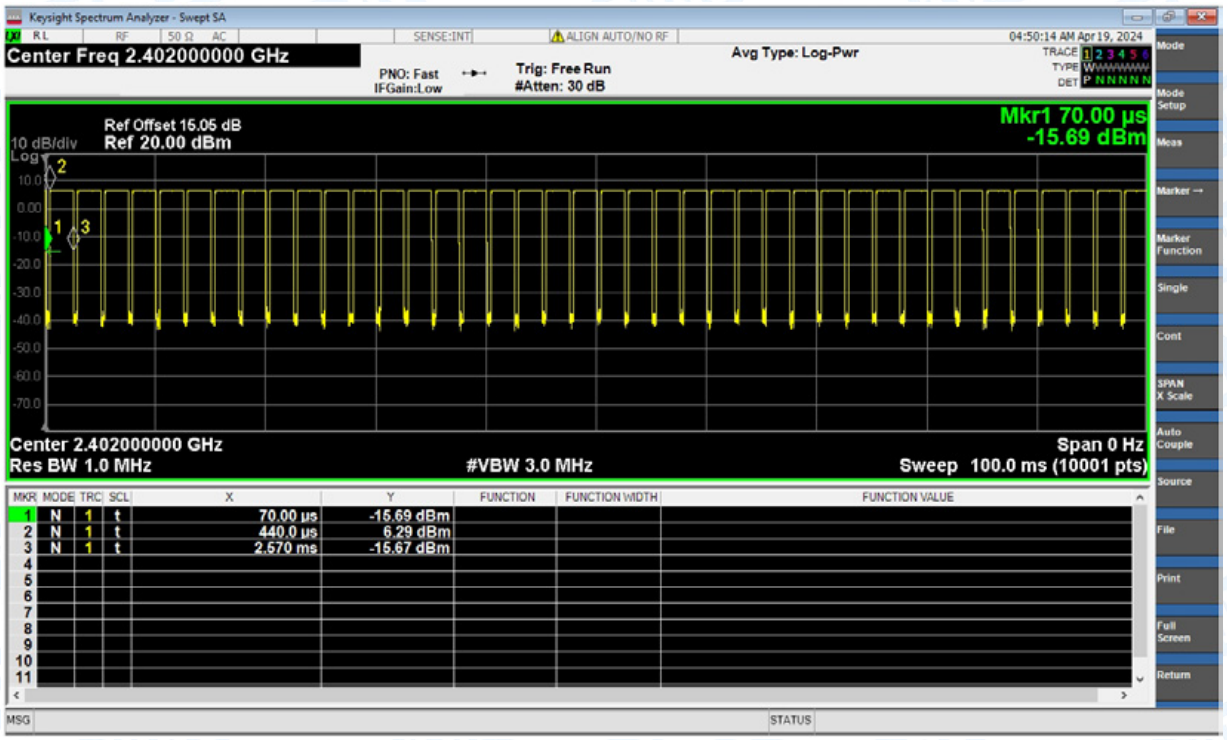
RF Test Data for Bluetooth LE (Conducted Measurements)

General Description of EUT	
Product Name:	Wireless Network Video Recorder
Test Model:	WNVR-FWR8G1-8
Sample ID:	HC-C-202403-0339-01-01-2#
Environmental Conditions	
Temperature:	23.8℃
Relative Humidity:	48%
Test Voltage:	AC 120V
Test Engineer:	ZKN zhou
Note: For a more detailed features description, please refer to the report TBR-C-202403-0339-31 The report only show the worst case data.	

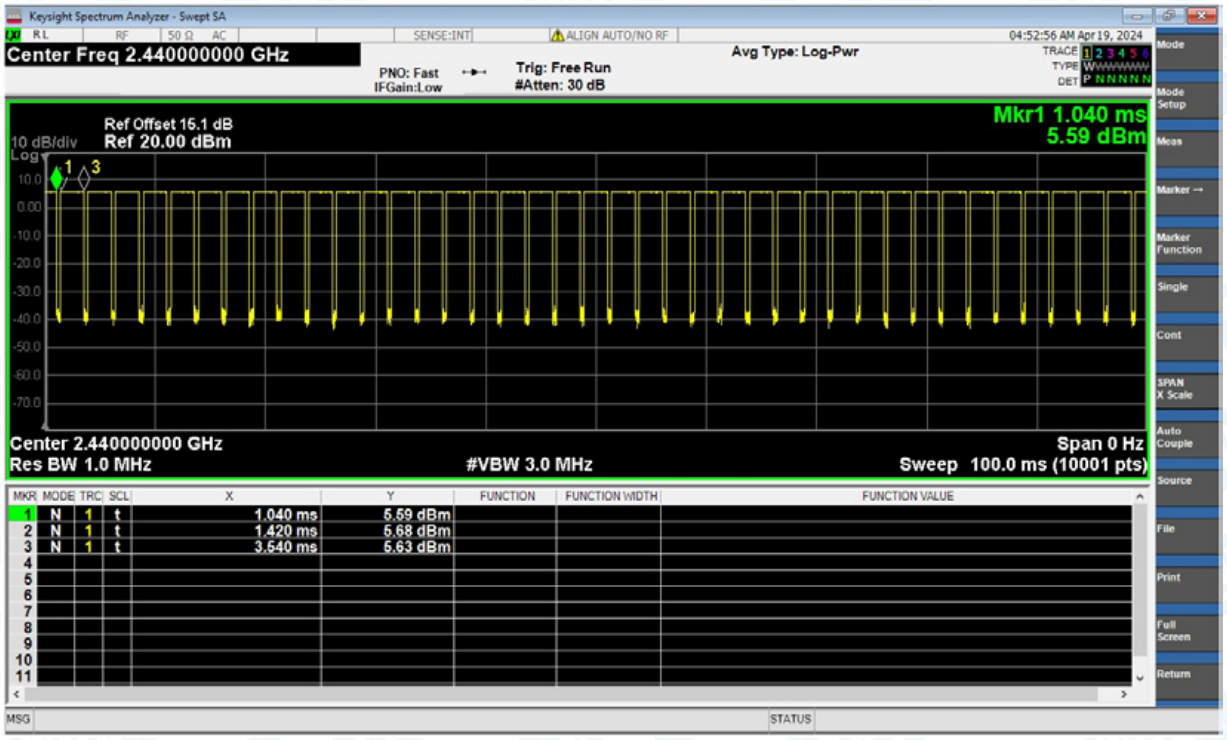
1. Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	BLE 1Mbps	2402	Ant1	85.2	0.7	0.47
NVNT	BLE 1Mbps	2440	Ant1	84.8	0.72	0.47
NVNT	BLE 1Mbps	2480	Ant1	85.2	0.7	0.47
NVNT	BLE 2Mbps	2402	Ant1	56.68	2.47	0.94
NVNT	BLE 2Mbps	2440	Ant1	56.91	2.45	0.93
NVNT	BLE 2Mbps	2480	Ant1	56.91	2.45	0.93

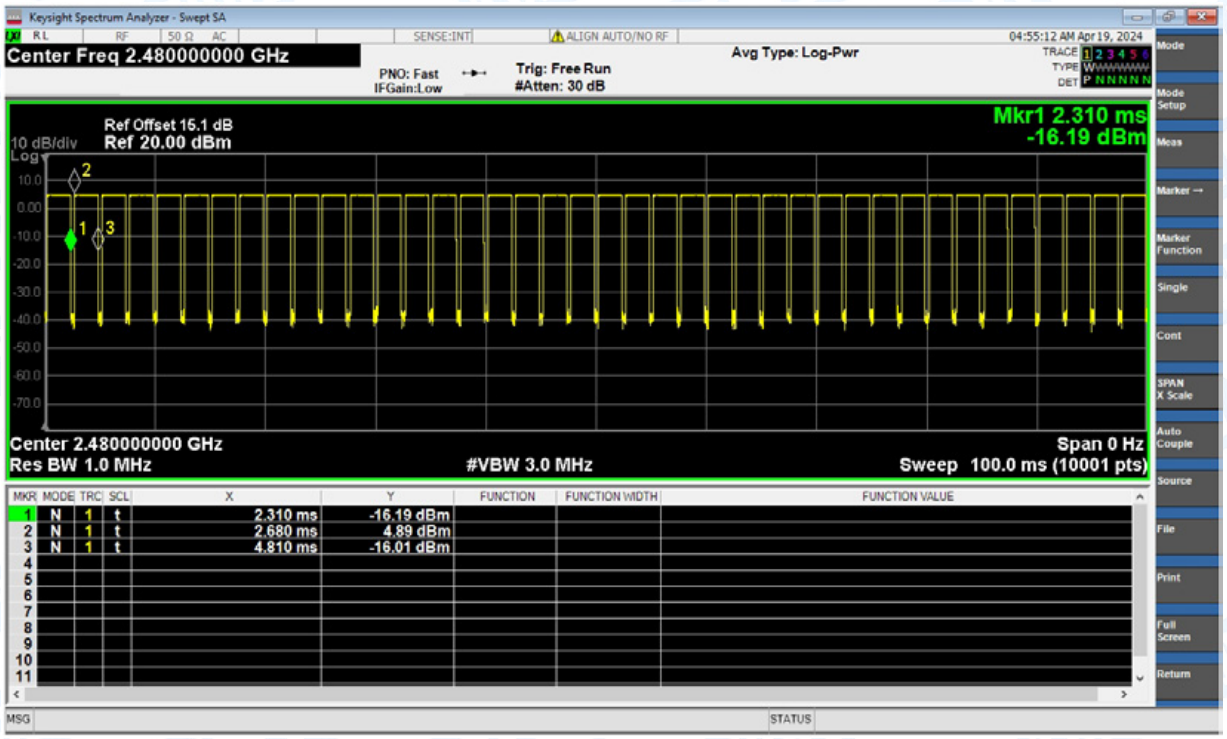
Test Graphs
Duty Cycle NVNT BLE 1Mbps 2402MHz Ant1



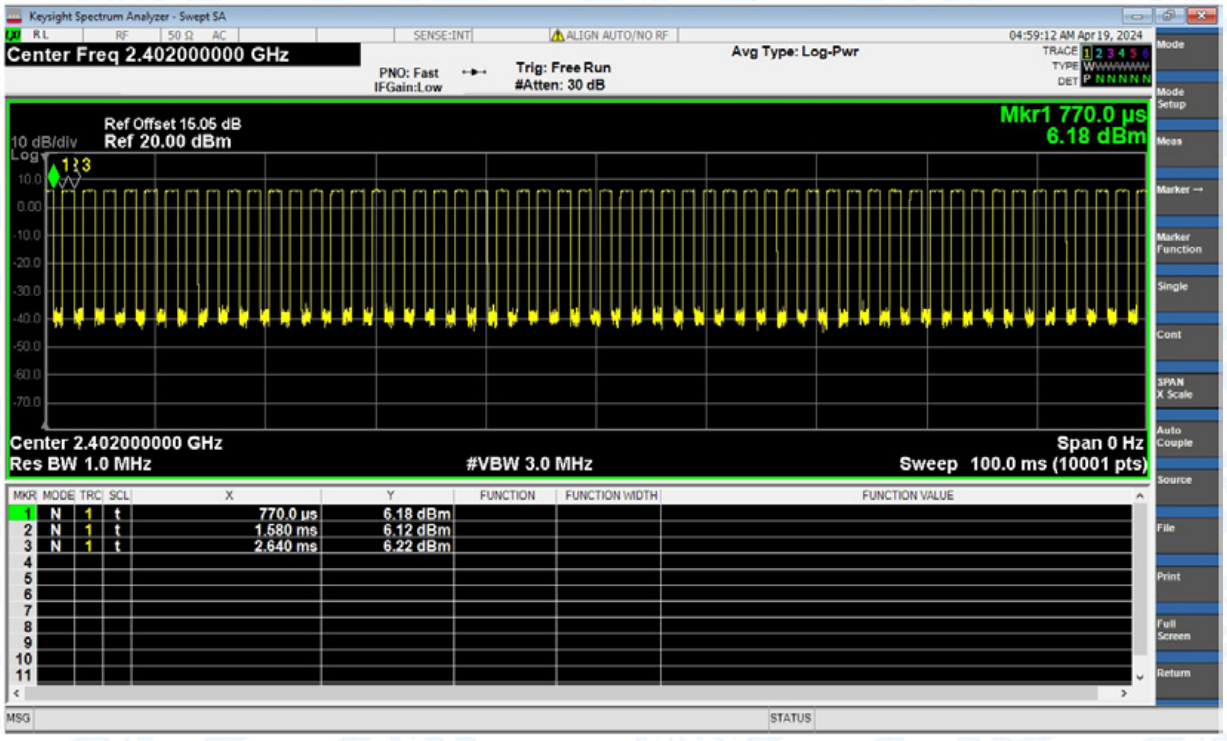
Duty Cycle NVNT BLE 1Mbps 2440MHz Ant1



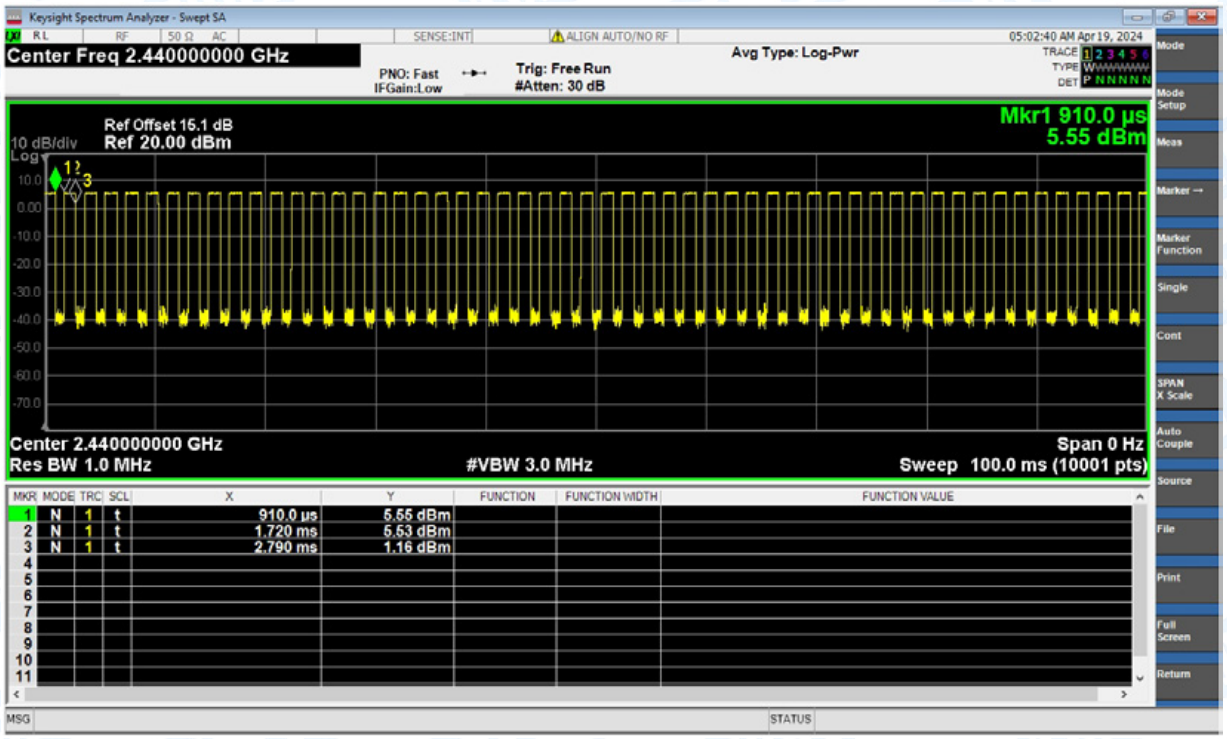
Duty Cycle NVNT BLE 1Mbps 2480MHz Ant1



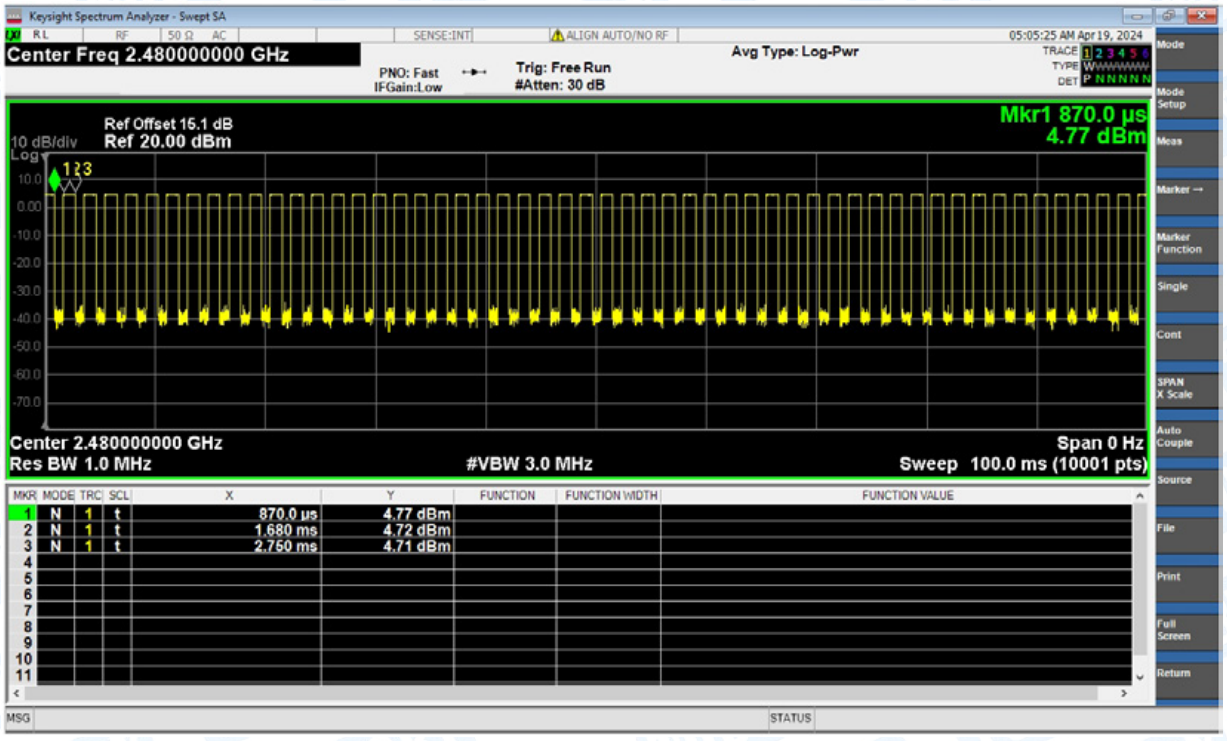
Duty Cycle NVNT BLE 2Mbps 2402MHz Ant1



Duty Cycle NVNT BLE 2Mbps 2440MHz Ant1



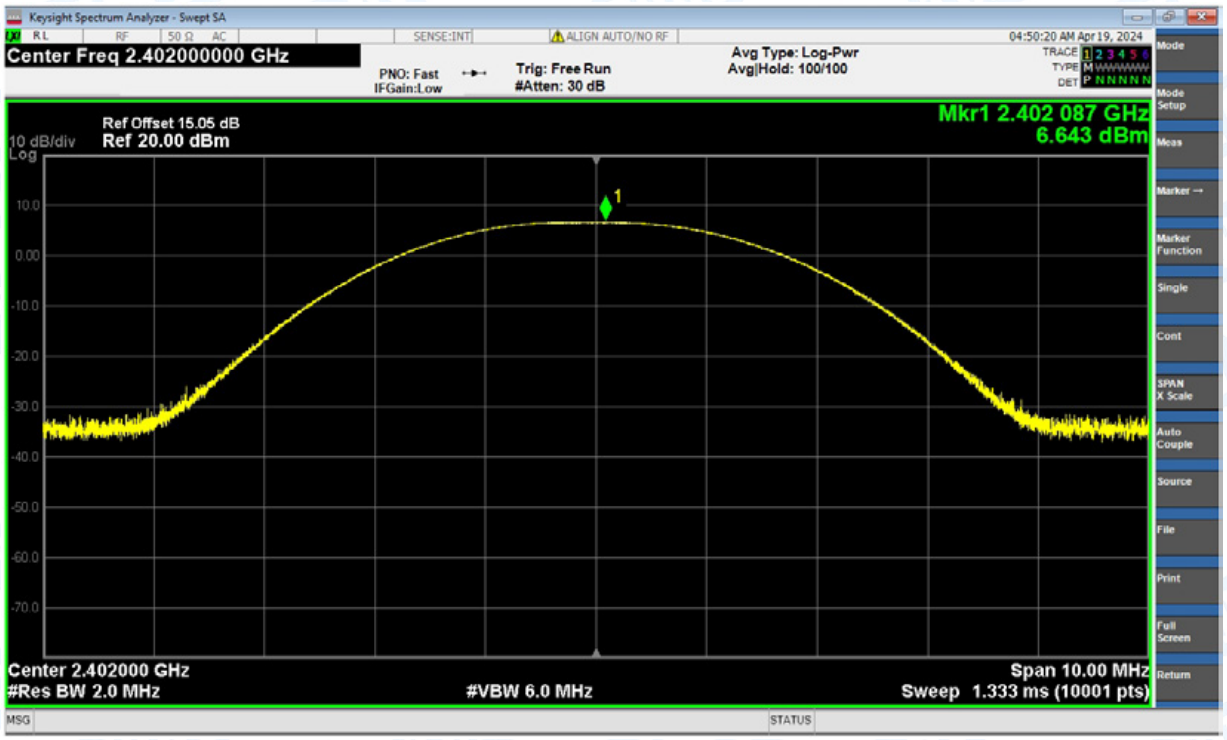
Duty Cycle NVNT BLE 2Mbps 2480MHz Ant1



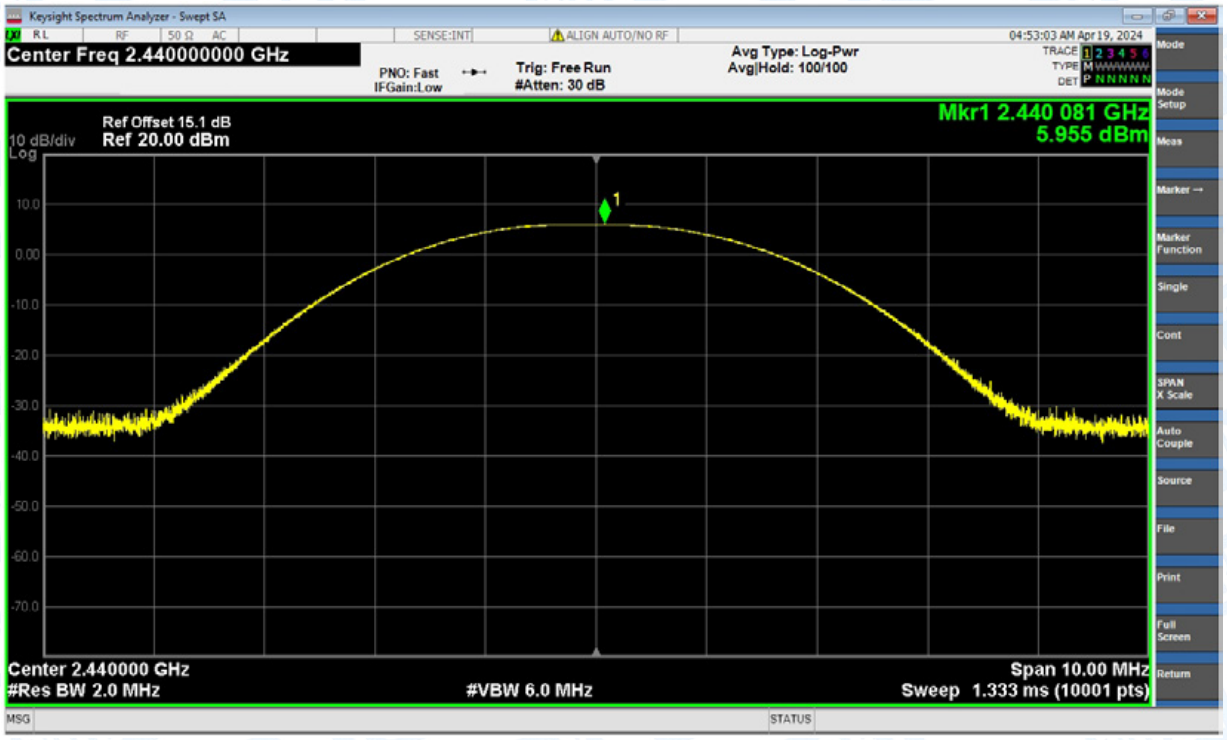
2. Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1Mbps	2402	Ant1	6.643	30	Pass
NVNT	BLE 1Mbps	2440	Ant1	5.955	30	Pass
NVNT	BLE 1Mbps	2480	Ant1	5.151	30	Pass
NVNT	BLE 2Mbps	2402	Ant1	6.631	30	Pass
NVNT	BLE 2Mbps	2440	Ant1	5.975	30	Pass
NVNT	BLE 2Mbps	2480	Ant1	5.221	30	Pass

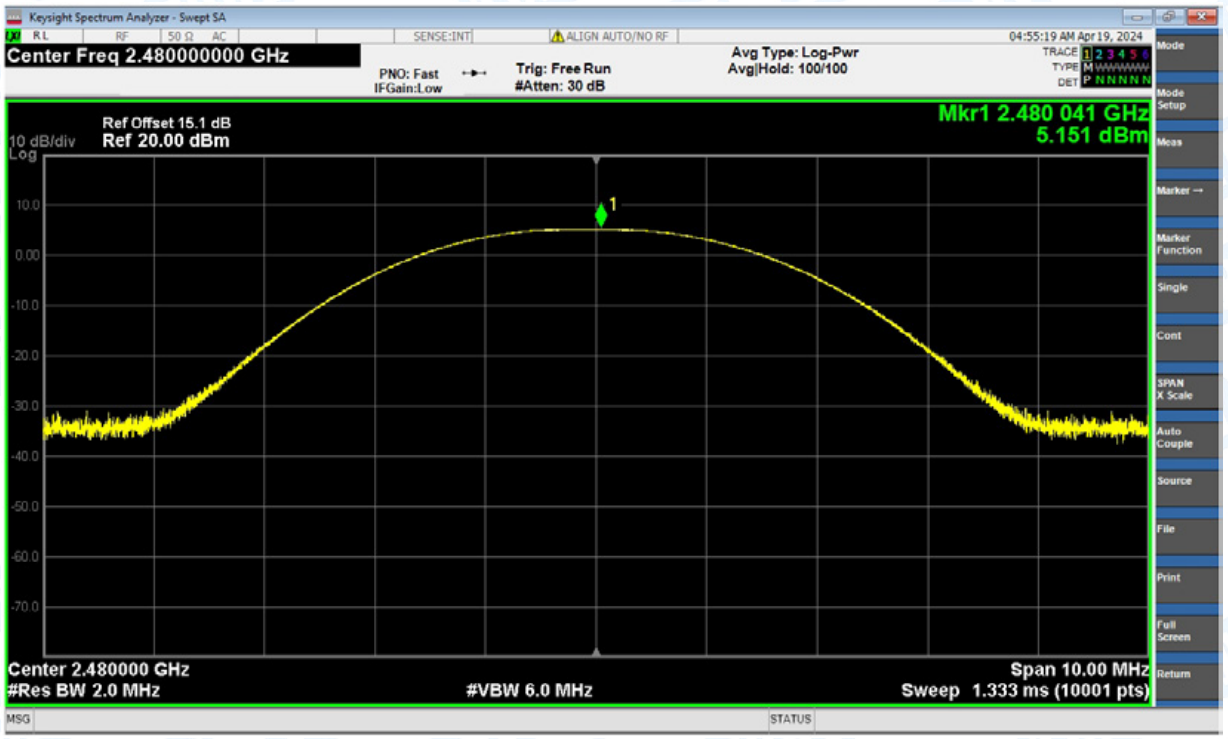
Test Graphs
Power NVNT BLE 1Mbps 2402MHz Ant1



Power NVNT BLE 1Mbps 2440MHz Ant1

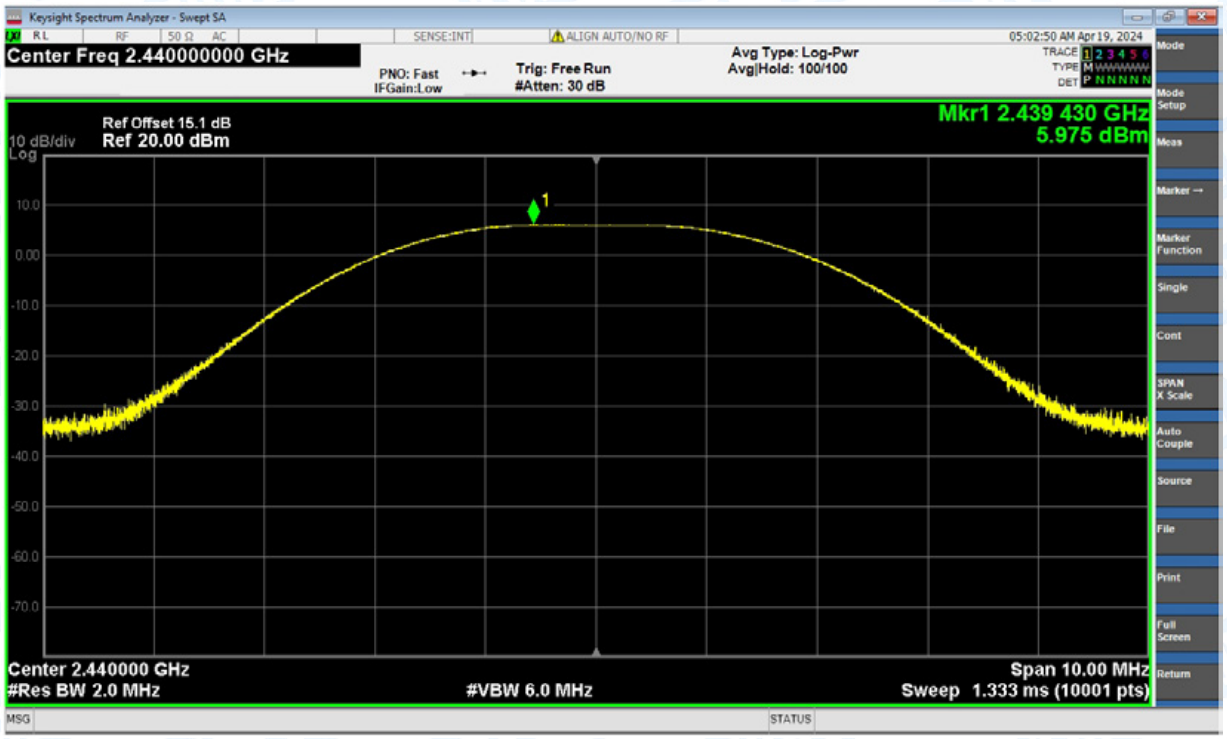


Power NVNT BLE 1Mbps 2480MHz Ant1



Power NVNT BLE 2Mbps 2402MHz Ant1

Power NVNT BLE 2Mbps 2440MHz Ant1



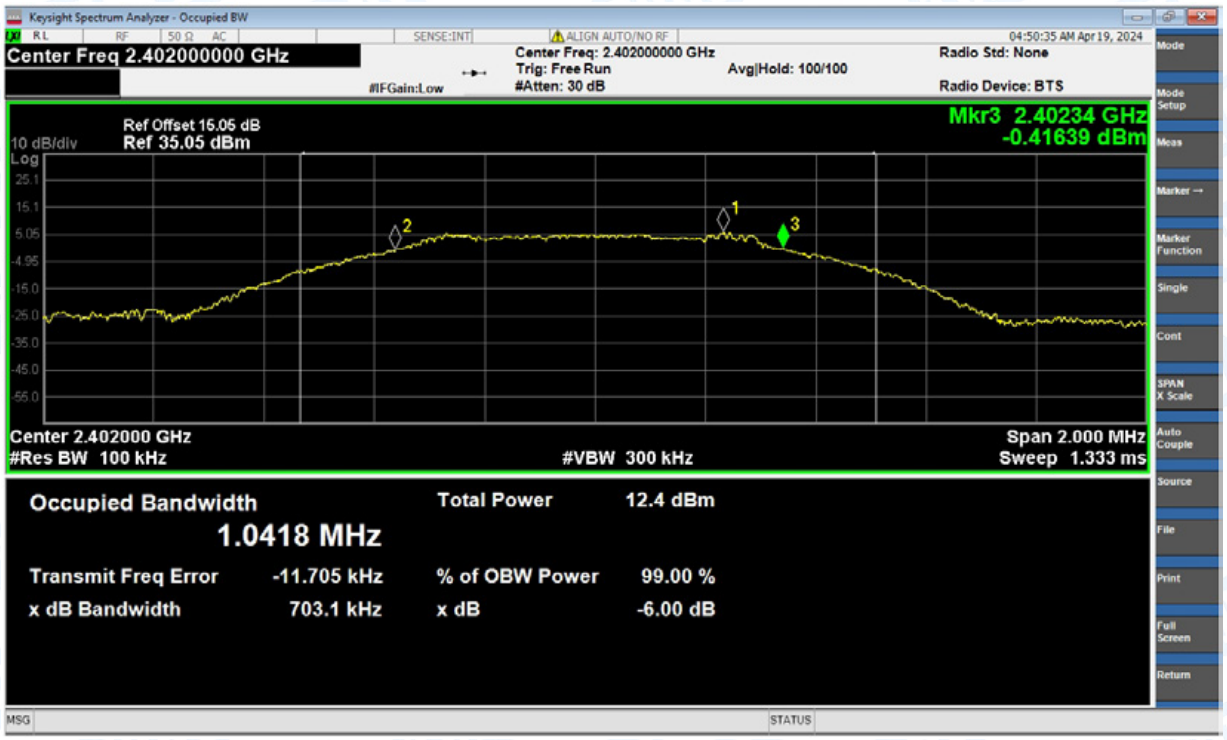
Power NVNT BLE 2Mbps 2480MHz Ant1

3. -6dB Bandwidth

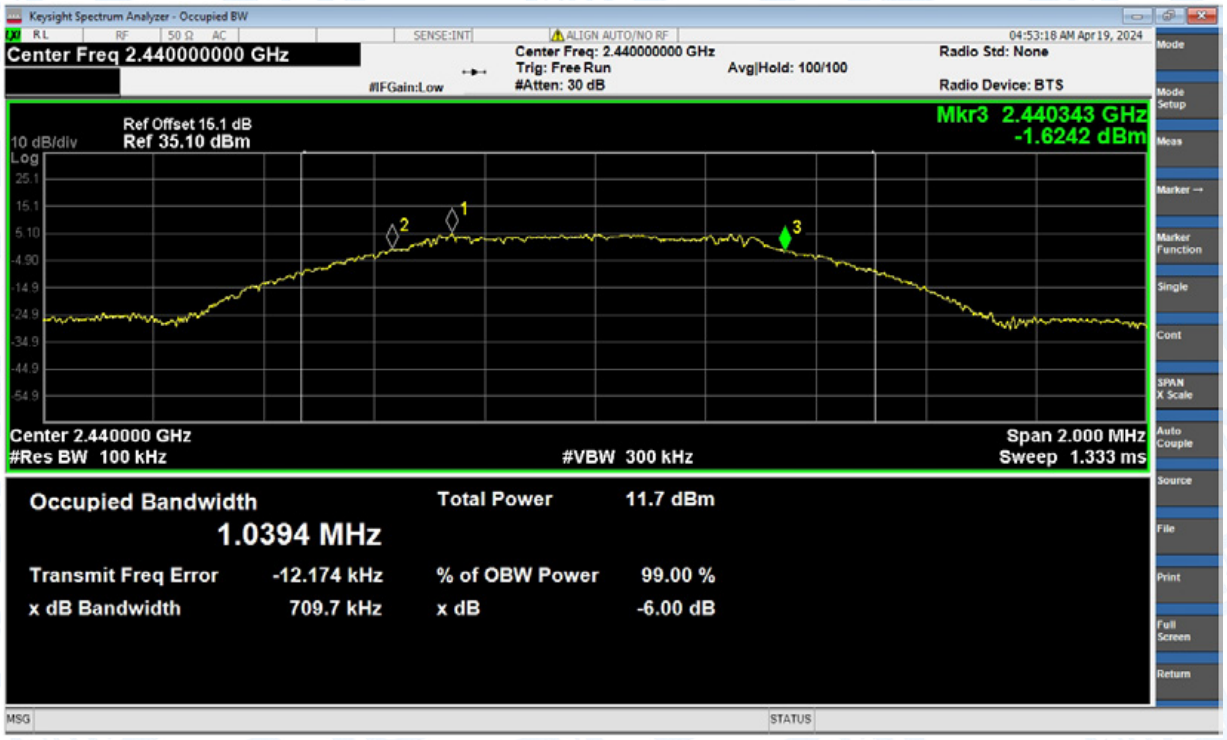
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1Mbps	2402	Ant1	0.70	0.5	Pass
NVNT	BLE 1Mbps	2440	Ant1	0.71	0.5	Pass
NVNT	BLE 1Mbps	2480	Ant1	0.70	0.5	Pass
NVNT	BLE 2Mbps	2402	Ant1	1.22	0.5	Pass
NVNT	BLE 2Mbps	2440	Ant1	1.19	0.5	Pass
NVNT	BLE 2Mbps	2480	Ant1	1.25	0.5	Pass

Test Graphs

-6dB Bandwidth NVNT BLE 1Mbps 2402MHz Ant1

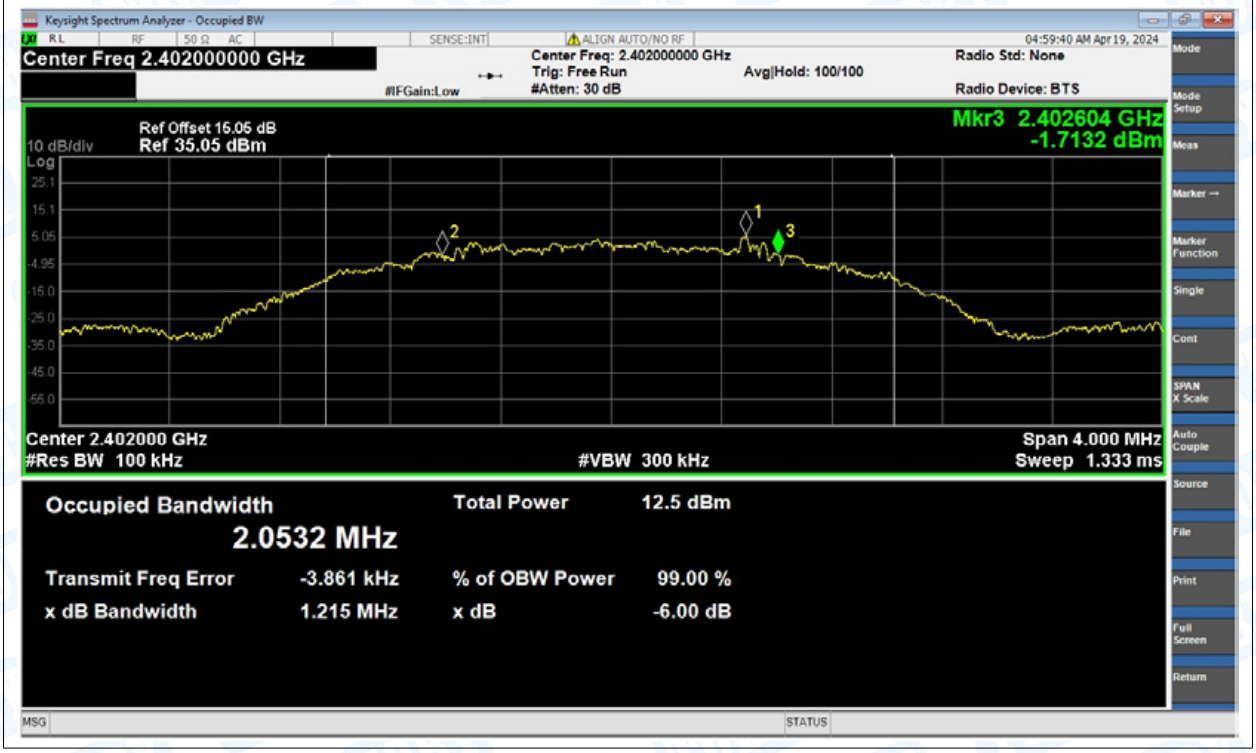


-6dB Bandwidth NVNT BLE 1Mbps 2440MHz Ant1



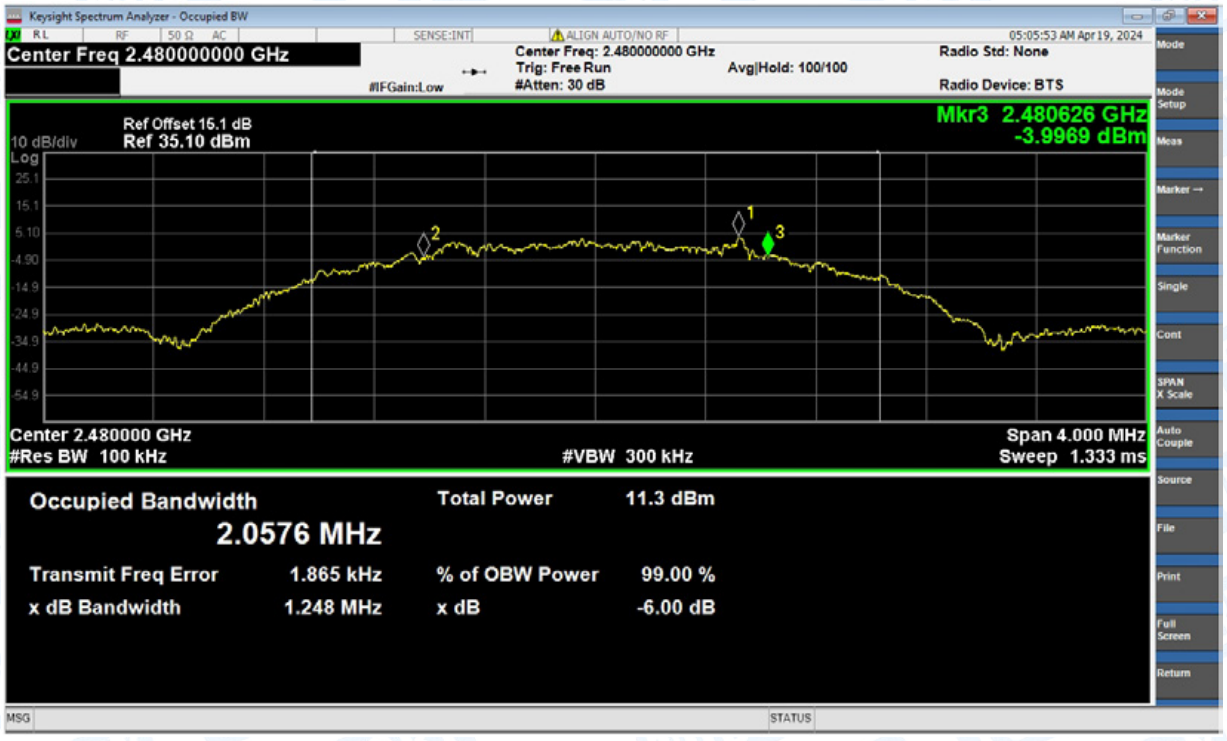
-6dB Bandwidth NVNT BLE 1Mbps 2480MHz Ant1

-6dB Bandwidth NVNT BLE 2Mbps 2402MHz Ant1



-6dB Bandwidth NVNT BLE 2Mbps 2440MHz Ant1

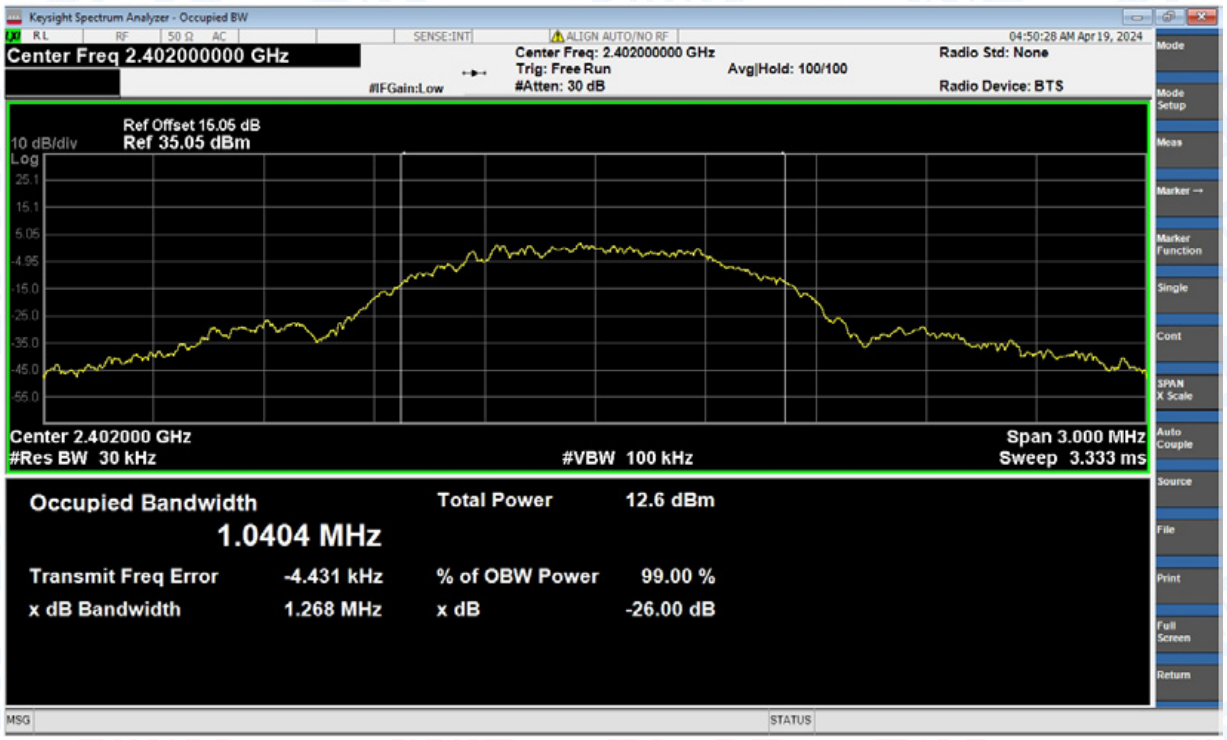
-6dB Bandwidth NVNT BLE 2Mbps 2480MHz Ant1



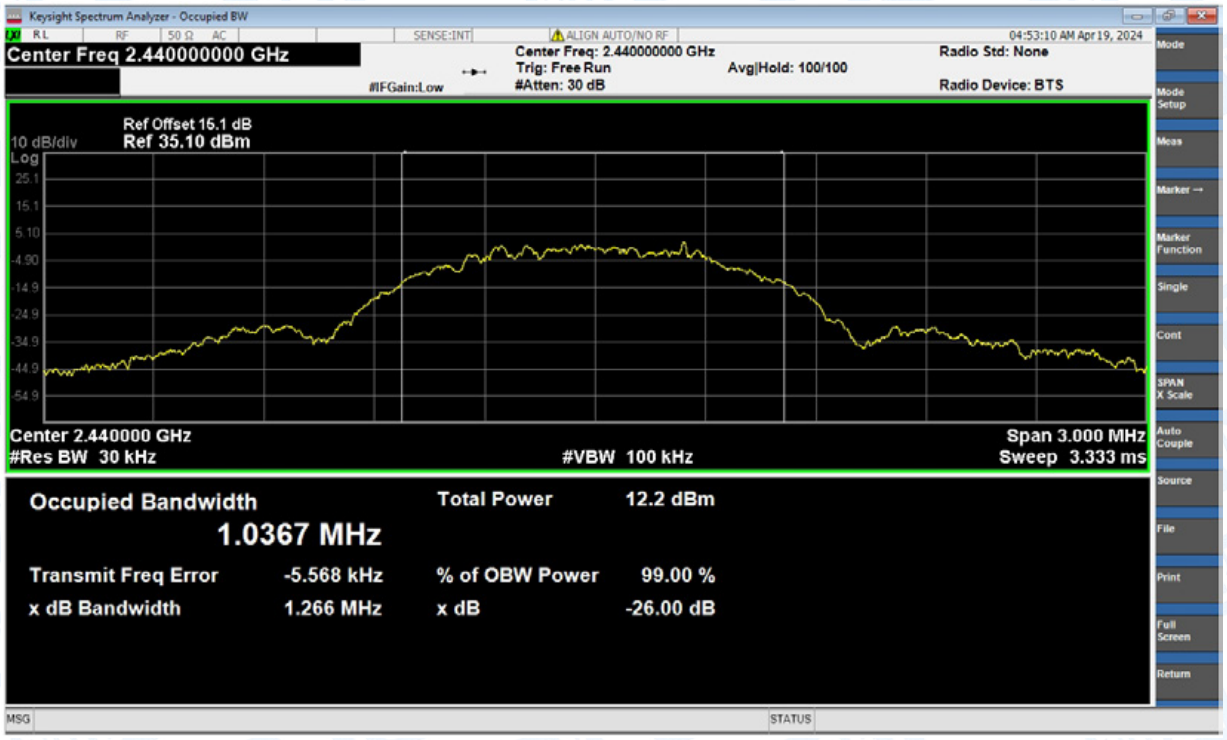
4. Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	BLE 1Mbps	2402	Ant1	1.040
NVNT	BLE 1Mbps	2440	Ant1	1.037
NVNT	BLE 1Mbps	2480	Ant1	1.033
NVNT	BLE 2Mbps	2402	Ant1	2.073
NVNT	BLE 2Mbps	2440	Ant1	2.068
NVNT	BLE 2Mbps	2480	Ant1	2.064

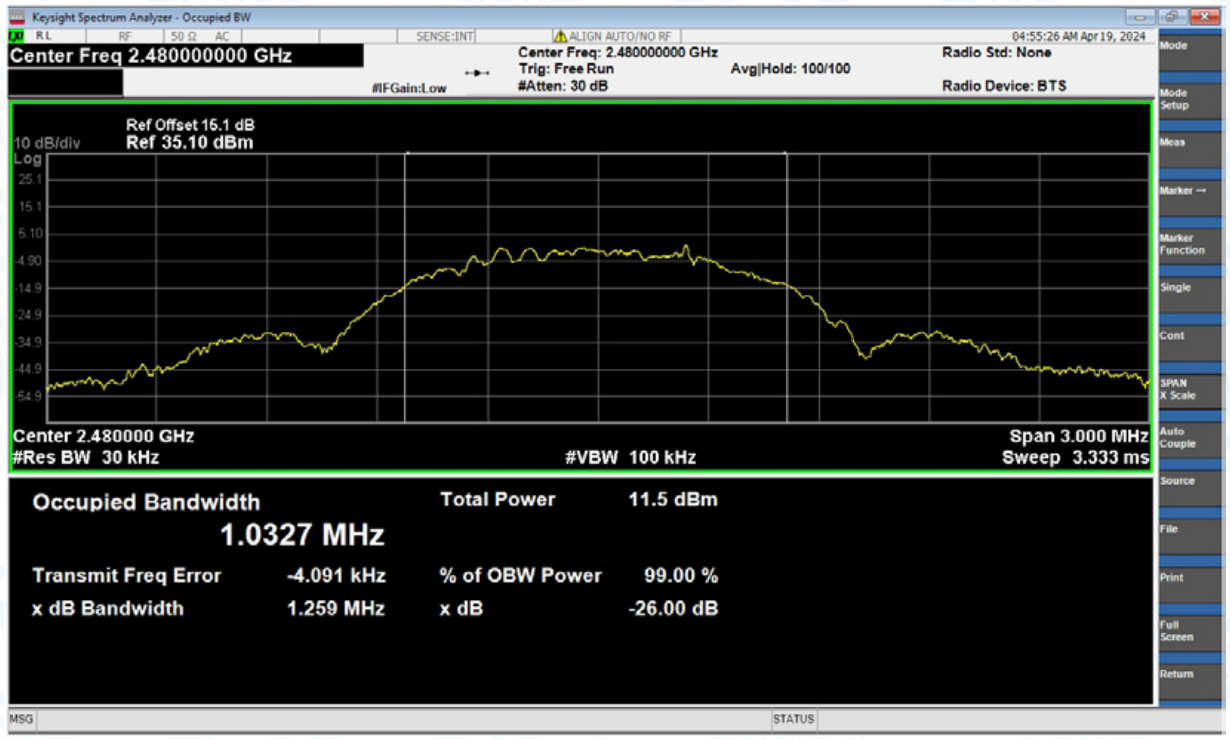
Test Graphs
OBW NVNT BLE 1Mbps 2402MHz Ant1



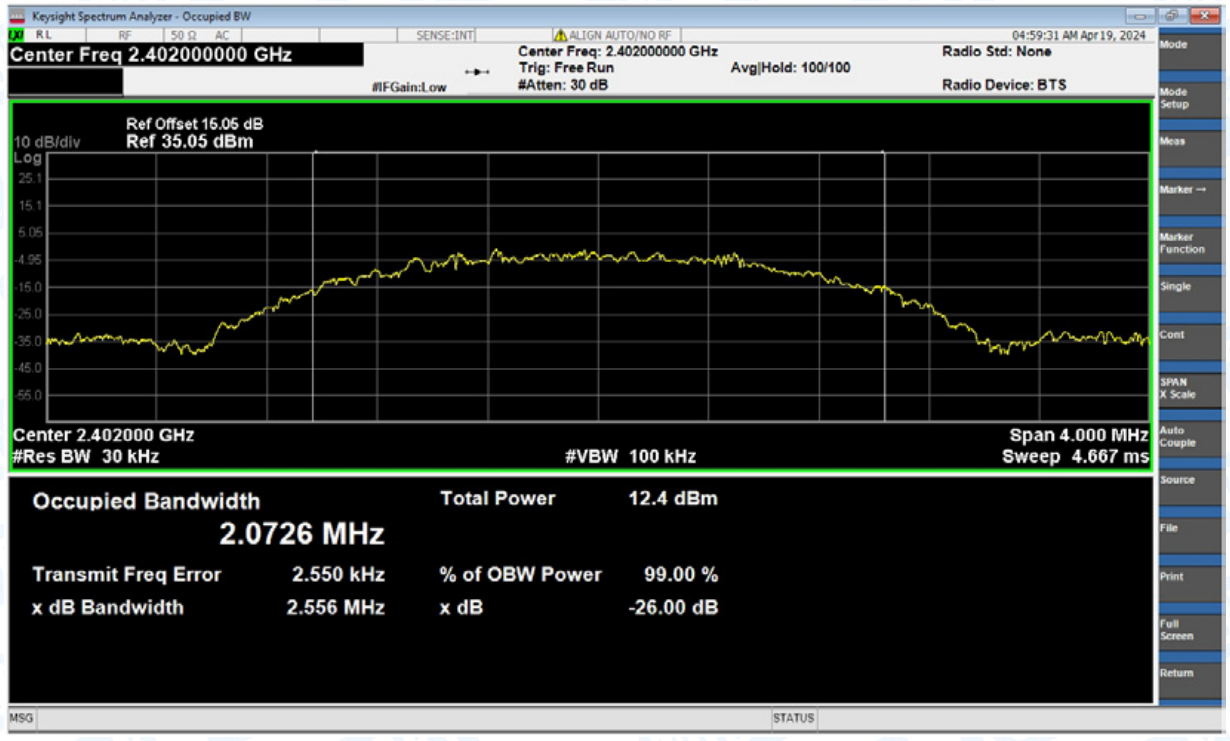
OBW NVNT BLE 1Mbps 2440MHz Ant1



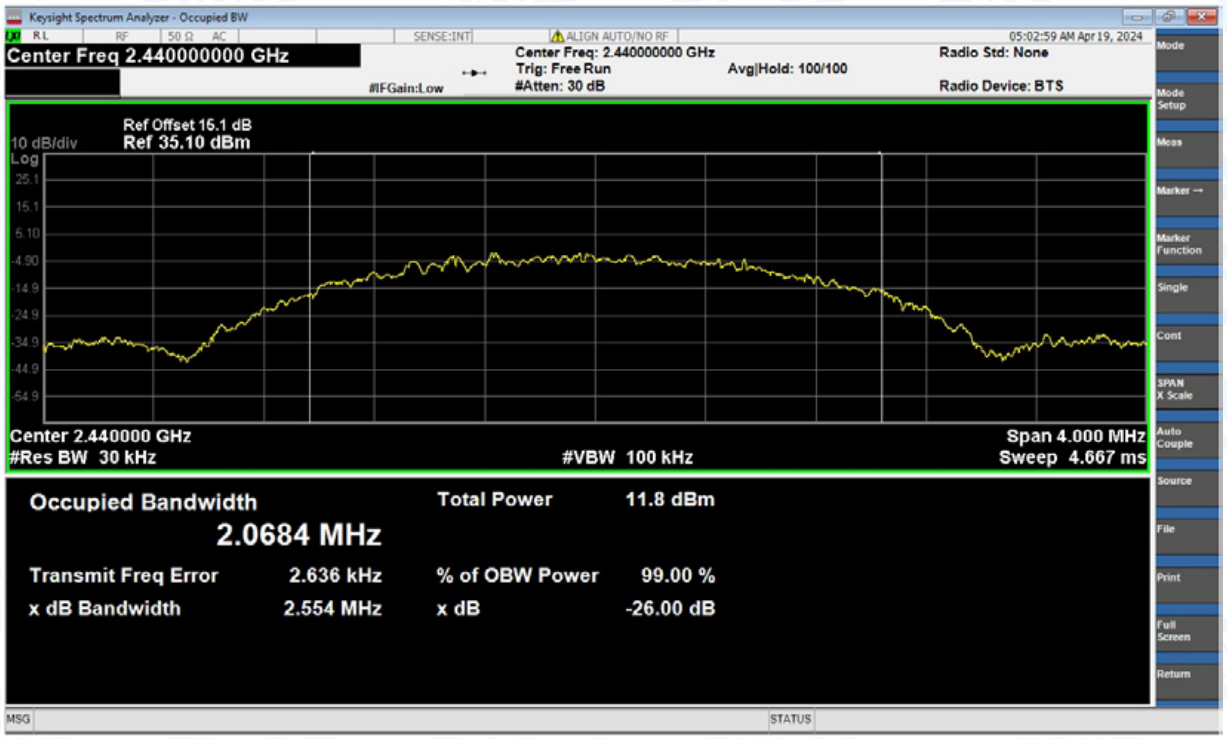
OBW NVNT BLE 1Mbps 2480MHz Ant1



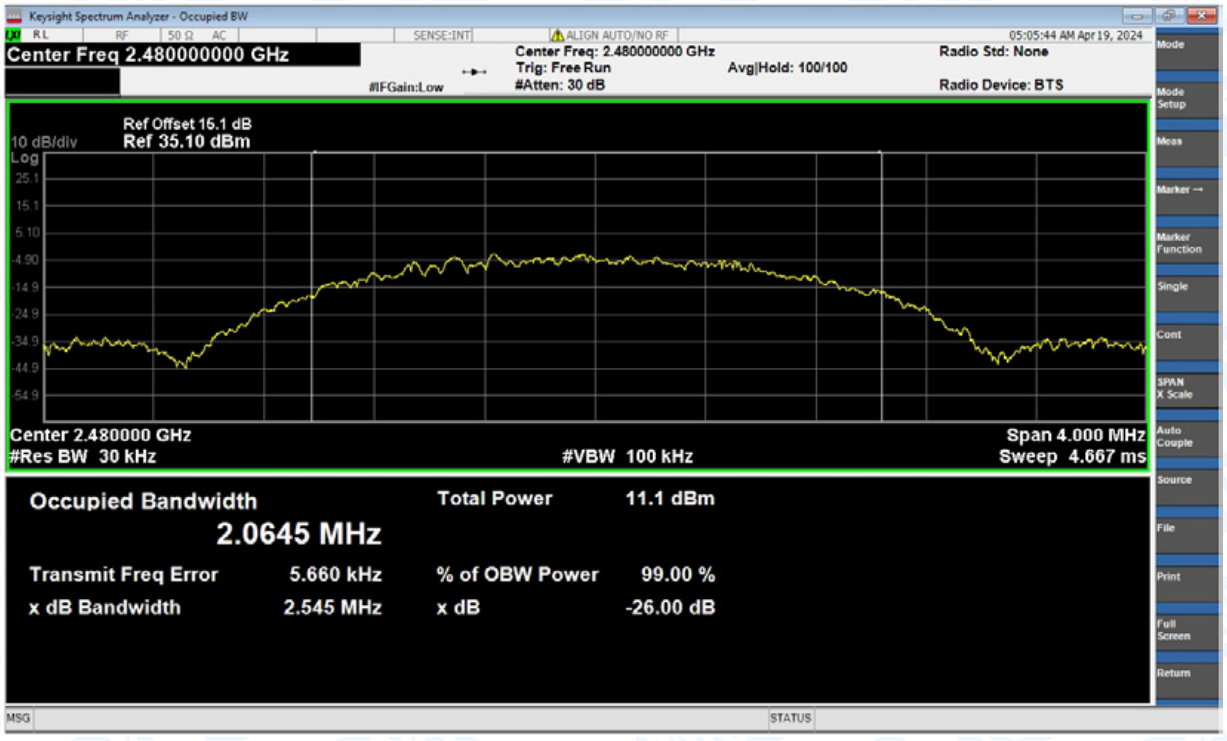
OBW NVNT BLE 2Mbps 2402MHz Ant1



OBW NVNT BLE 2Mbps 2440MHz Ant1



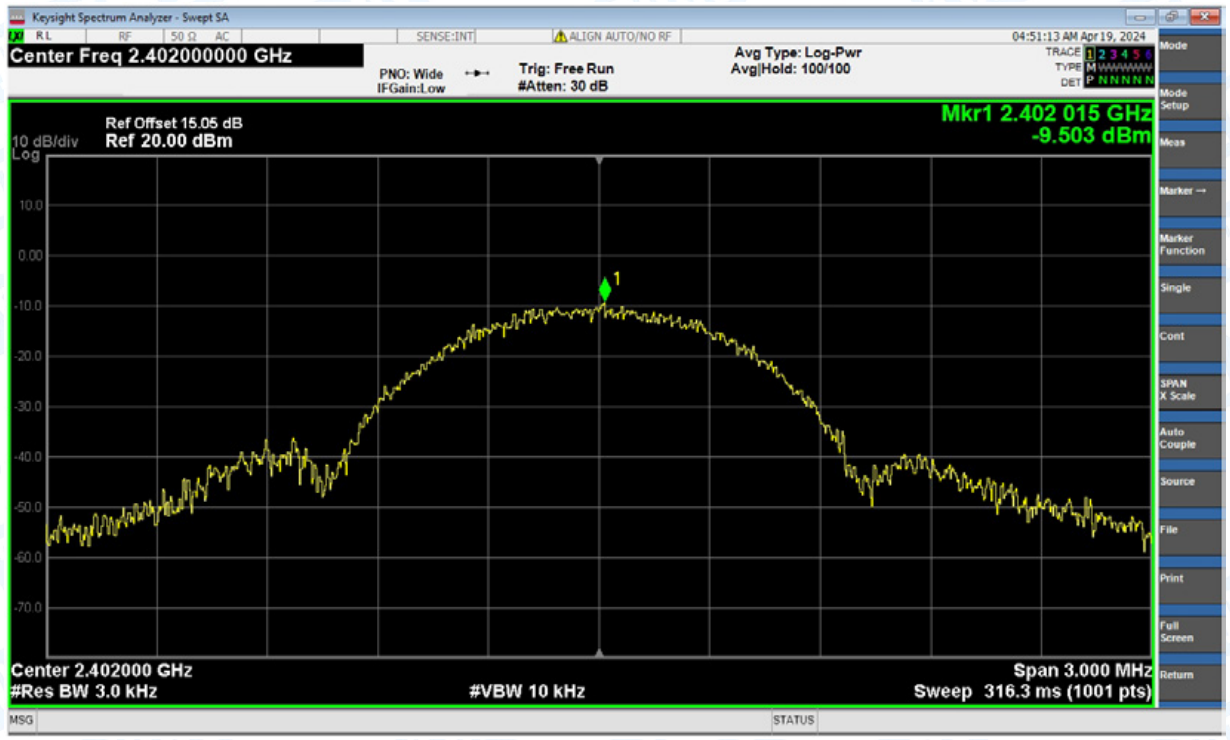
OBW NVNT BLE 2Mbps 2480MHz Ant1



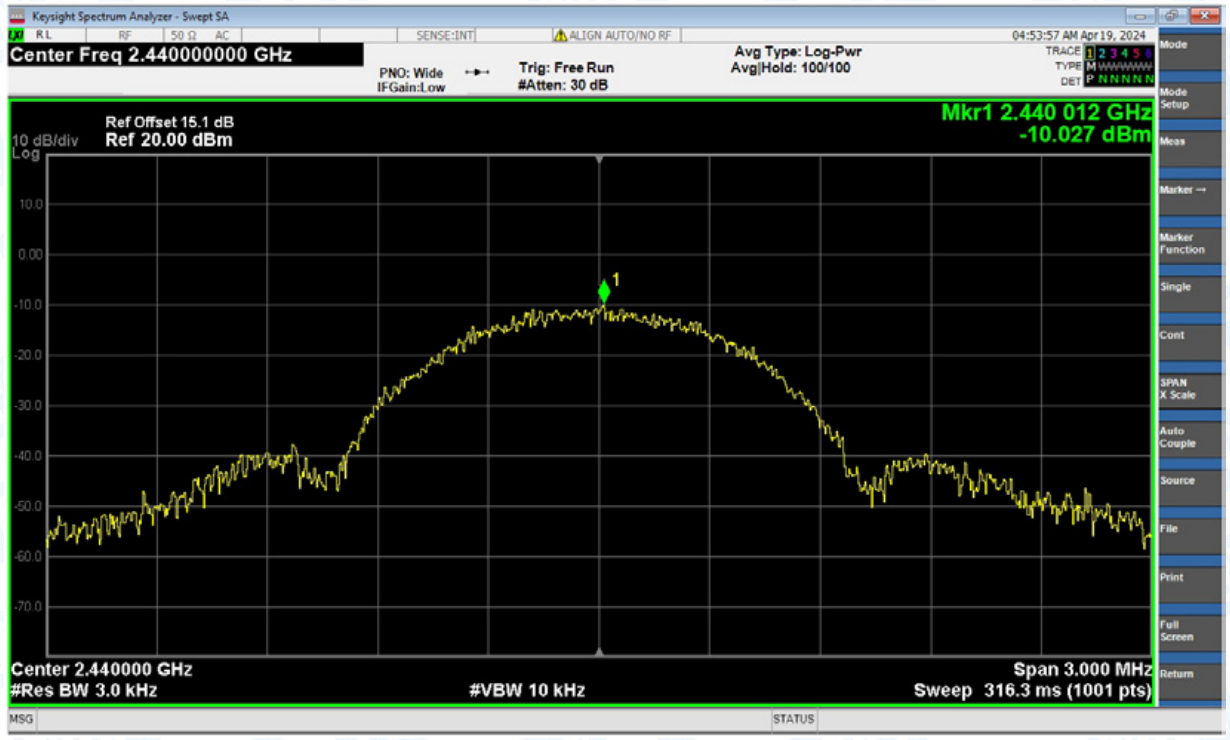
5. Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	BLE 1Mbps	2402	Ant1	-9.503	8	Pass
NVNT	BLE 1Mbps	2440	Ant1	-10.027	8	Pass
NVNT	BLE 1Mbps	2480	Ant1	-10.766	8	Pass
NVNT	BLE 2Mbps	2402	Ant1	-12.609	8	Pass
NVNT	BLE 2Mbps	2440	Ant1	-13.242	8	Pass
NVNT	BLE 2Mbps	2480	Ant1	-14.073	8	Pass

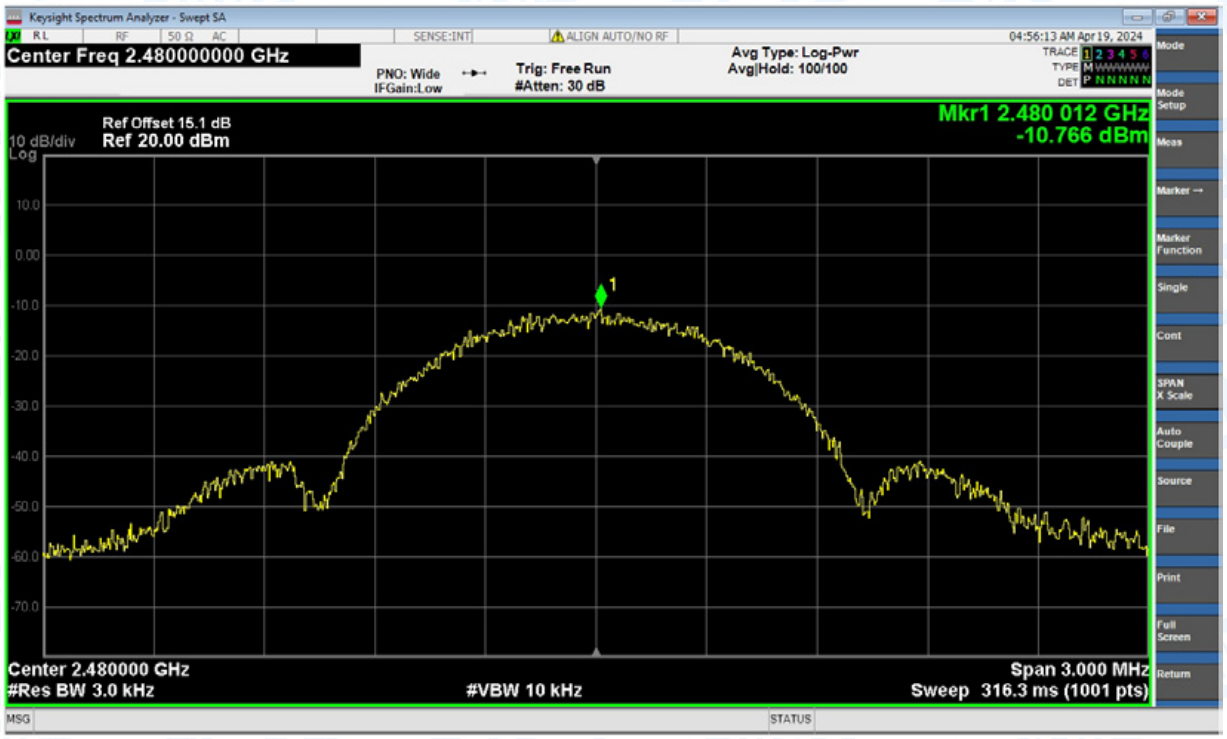
Test Graphs
PSD NVNT BLE 1Mbps 2402MHz Ant1



PSD NVNT BLE 1Mbps 2440MHz Ant1



PSD NVNT BLE 1Mbps 2480MHz Ant1



PSD NVNT BLE 2Mbps 2402MHz Ant1