

RF Test Data for Bluetooth LE (Conducted Measurements)

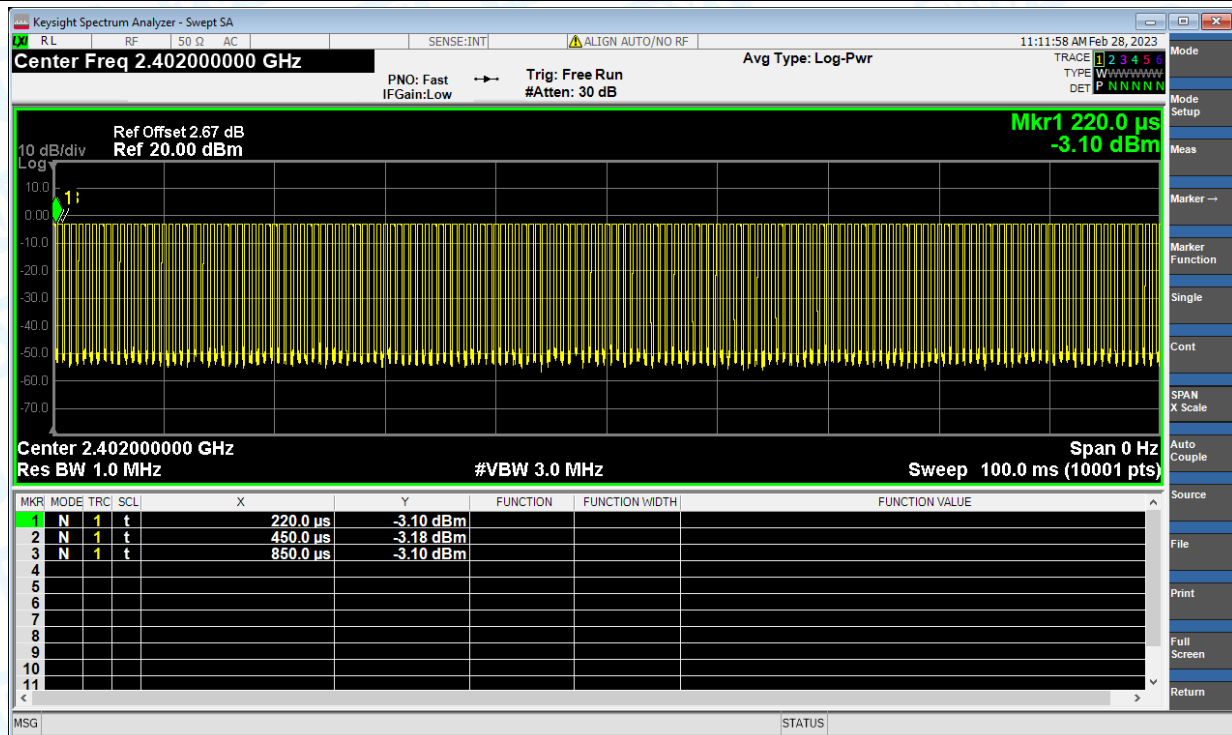
General Description of EUT	
Product Name:	KEYSME Lunar 01 Mechanical Keyboard
Test Model:	KEYSME Lunar 01 Mechanical Keyboard
Sample ID:	RW-C-202302-0129-3-2#
Environmental Conditions	
Temperature:	23.8℃
Relative Humidity:	48%
Test Voltage:	DC 7.4V
Test Engineer:	Huang jian ping
Note: For a more detailed features description, please refer to the report TBR-C-202302-0129-5 The report only show the worst case data.	

1. Duty Cycle

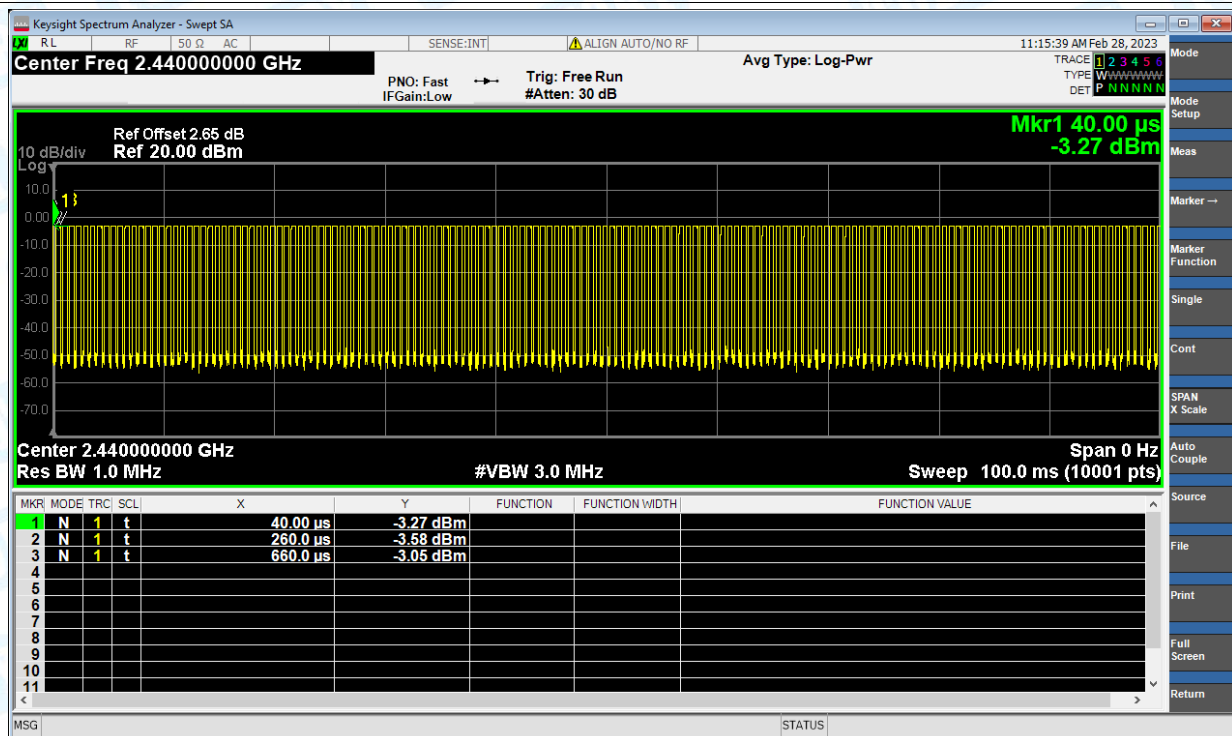
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	BLE 1Mbps	2402	Ant1	63.49	1.97	2.5
NVNT	BLE 1Mbps	2440	Ant1	64.52	1.9	2.5
NVNT	BLE 1Mbps	2480	Ant1	64.52	1.9	2.5

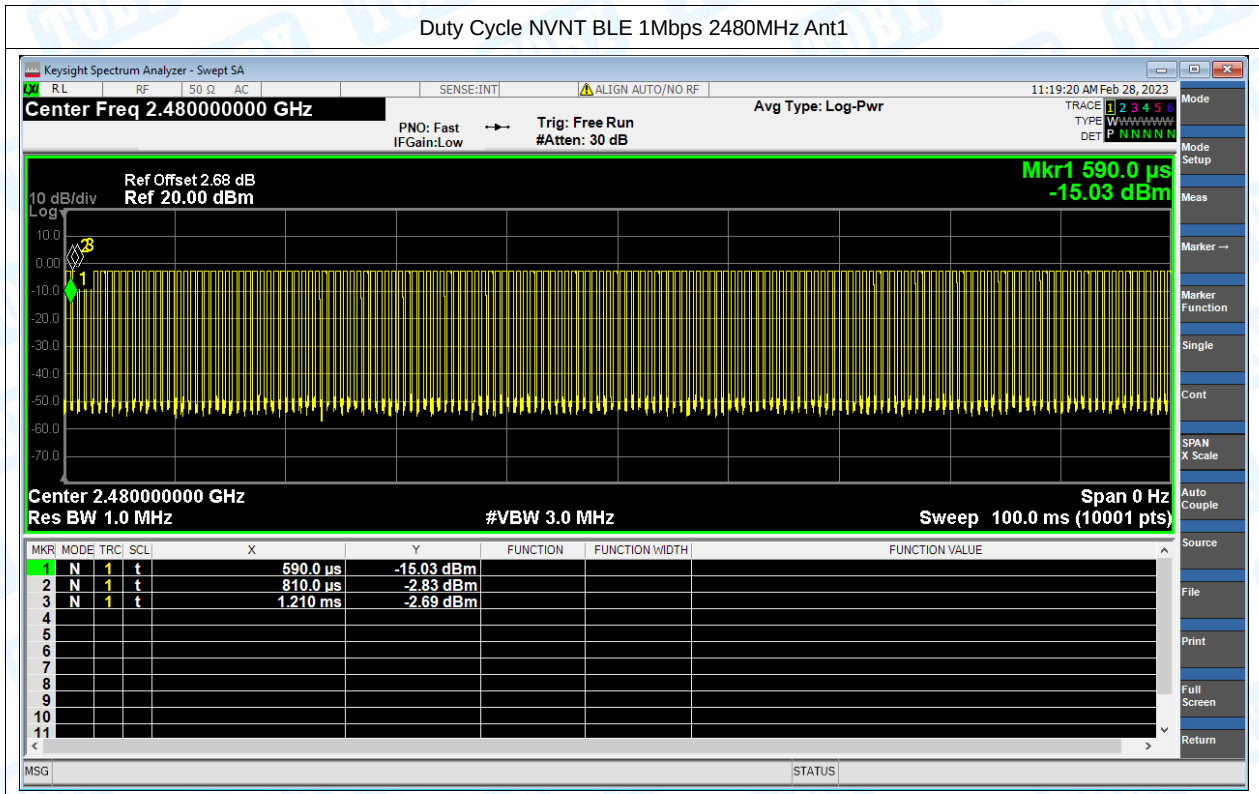
Test Graphs

Duty Cycle NVNT BLE 1Mbps 2402MHz Ant1



Duty Cycle NVNT BLE 1Mbps 2440MHz Ant1



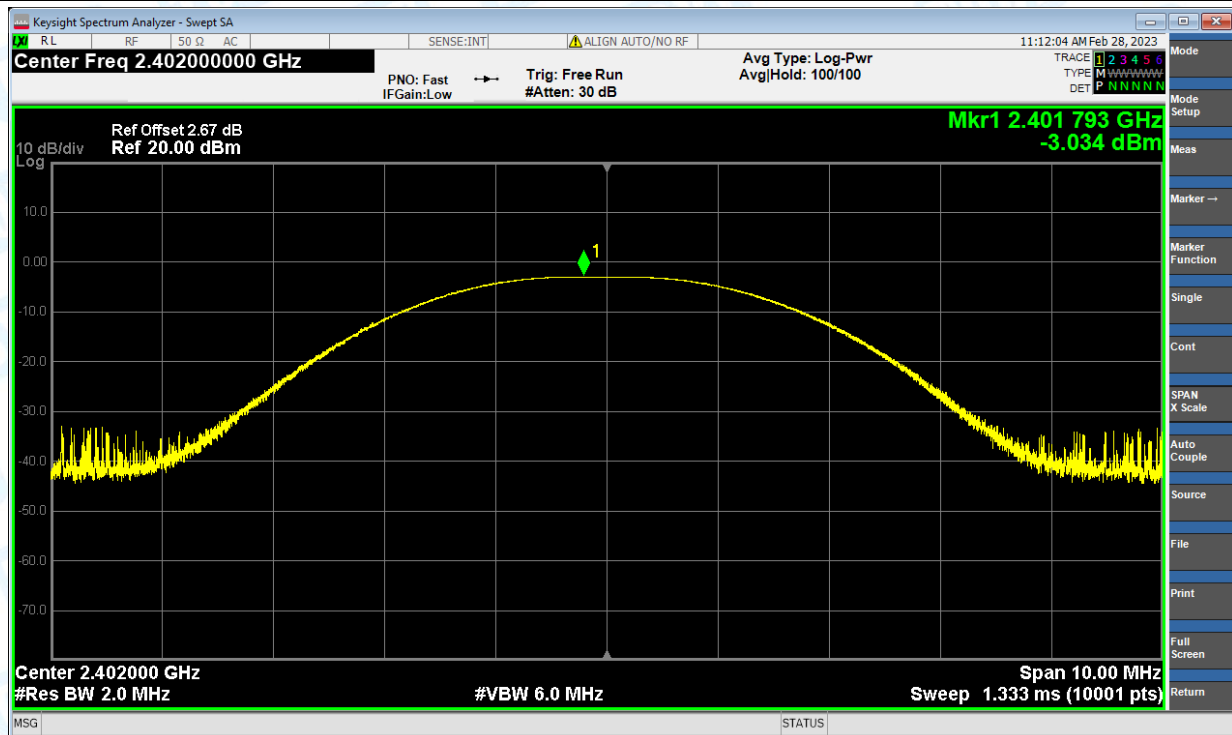


2. Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1Mbps	2402	Ant1	-3.034	30	Pass
NVNT	BLE 1Mbps	2440	Ant1	-2.982	30	Pass
NVNT	BLE 1Mbps	2480	Ant1	-2.641	30	Pass

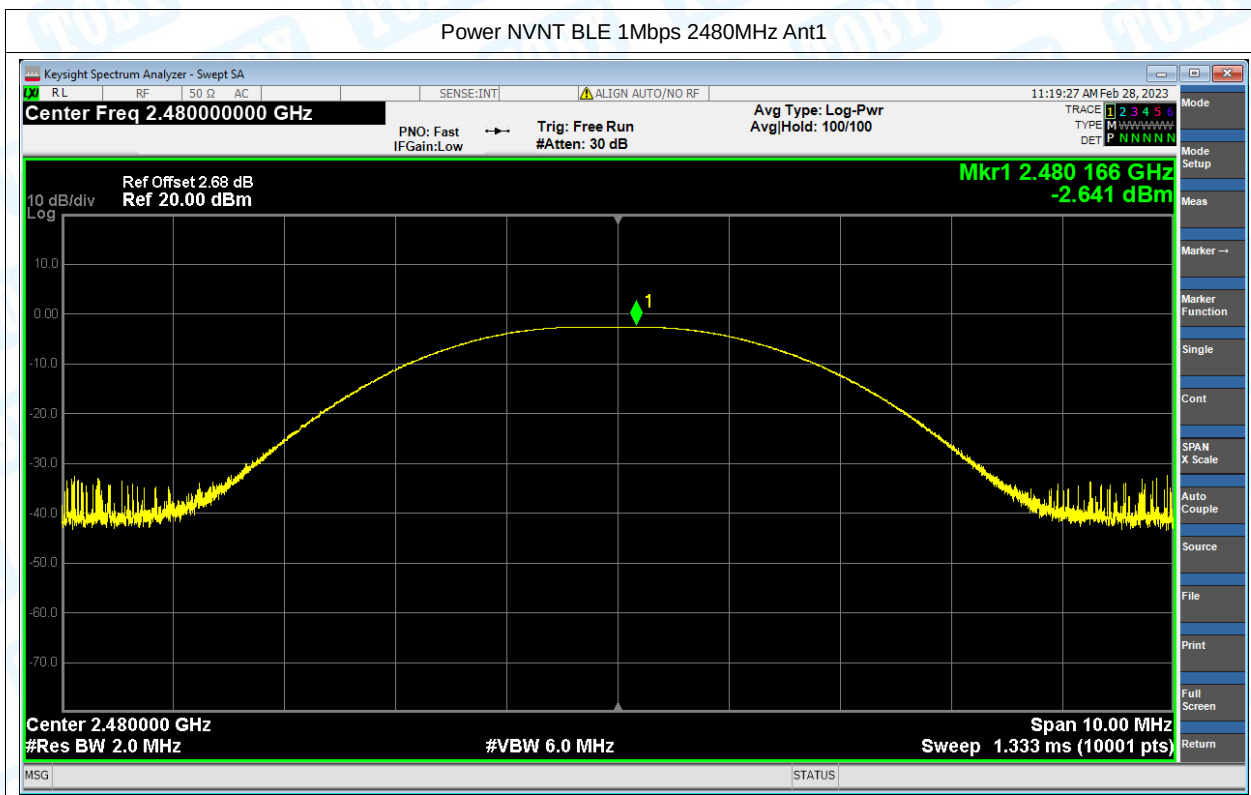
Test Graphs

Power NVNT BLE 1Mbps 2402MHz Ant1



Power NVNT BLE 1Mbps 2440MHz Ant1



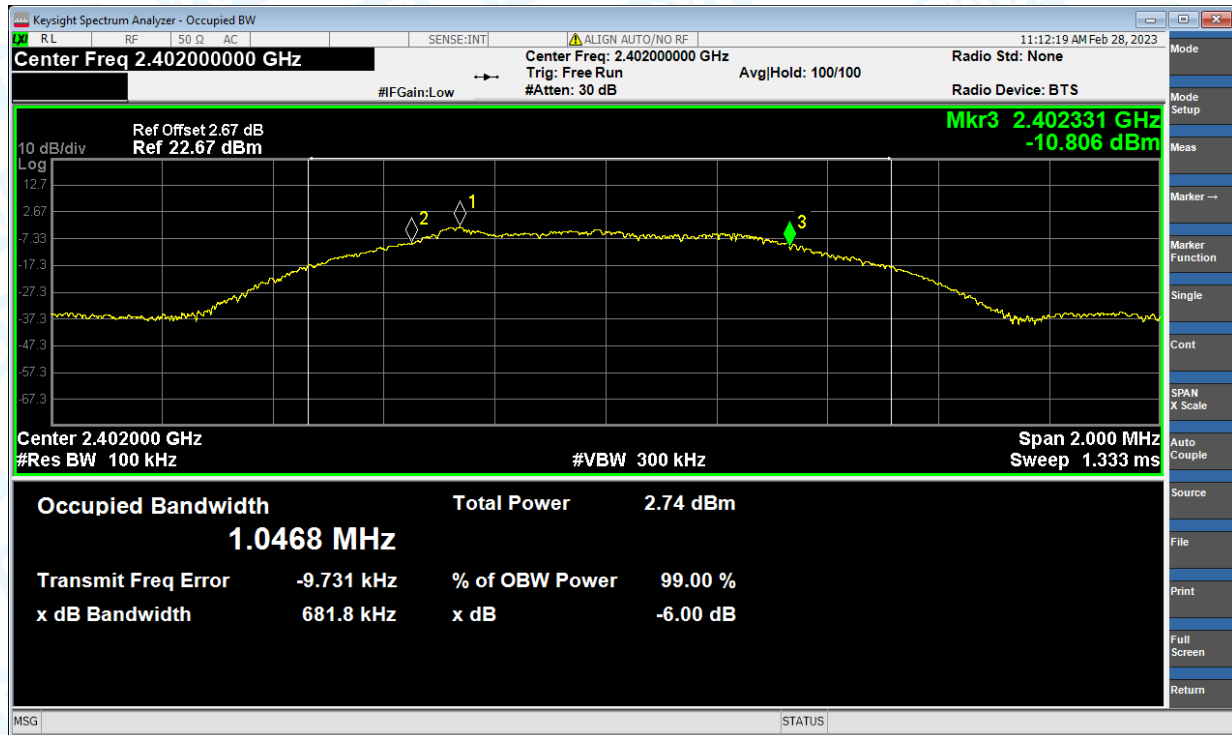


3. -6dB Bandwidth

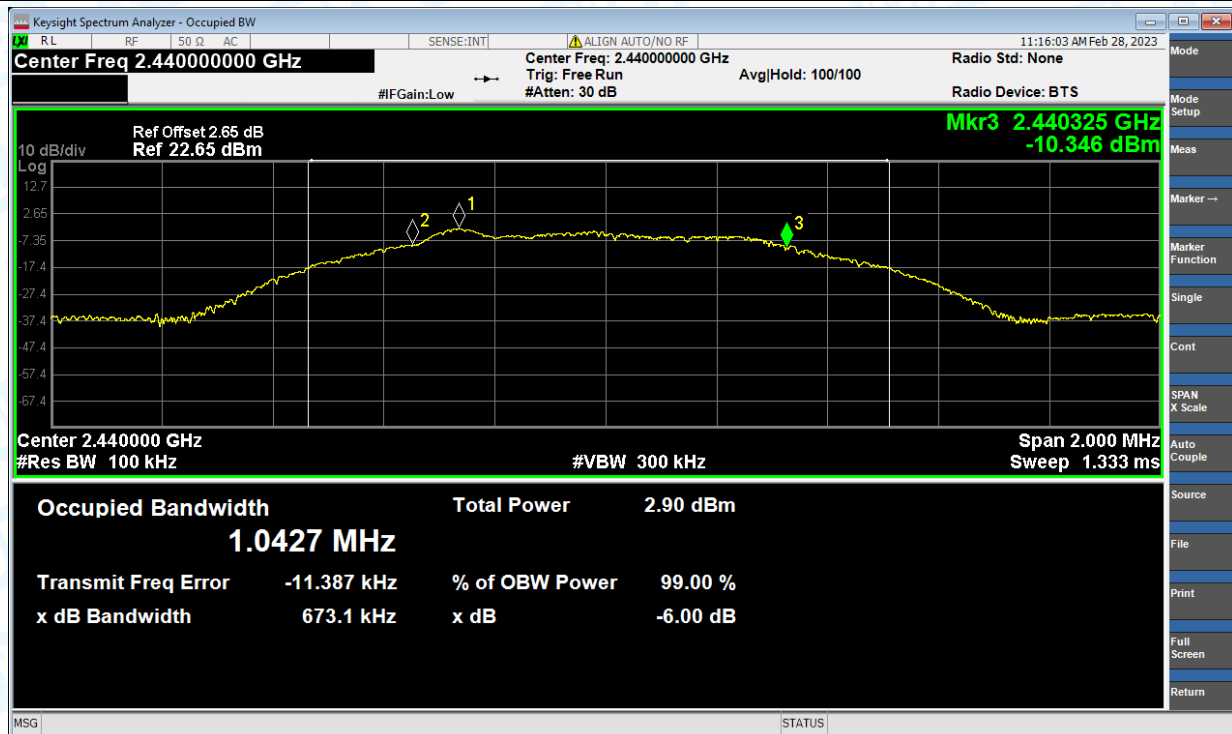
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1Mbps	2402	Ant1	0.68	0.5	Pass
NVNT	BLE 1Mbps	2440	Ant1	0.67	0.5	Pass
NVNT	BLE 1Mbps	2480	Ant1	0.67	0.5	Pass

Test Graphs

-6dB Bandwidth NVNT BLE 1Mbps 2402MHz Ant1



-6dB Bandwidth NVNT BLE 1Mbps 2440MHz Ant1



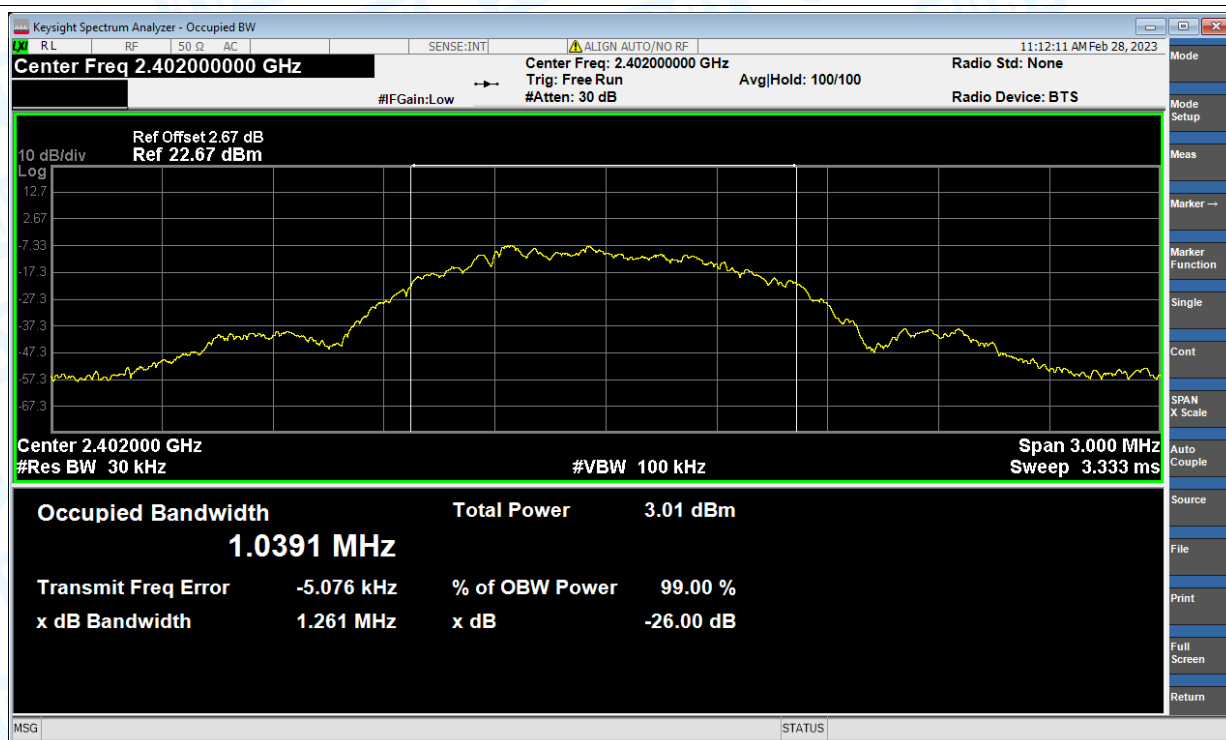


4. Occupied Channel Bandwidth

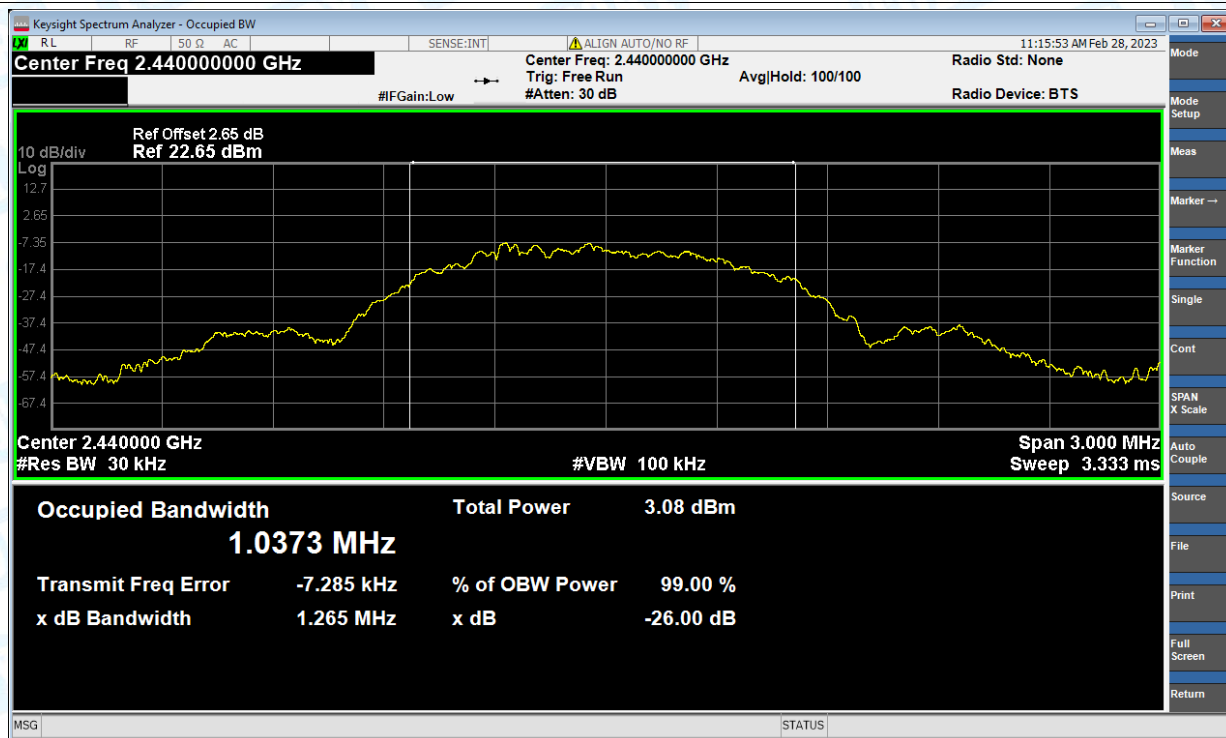
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	BLE 1Mbps	2402	Ant1	1.039
NVNT	BLE 1Mbps	2440	Ant1	1.037
NVNT	BLE 1Mbps	2480	Ant1	1.046

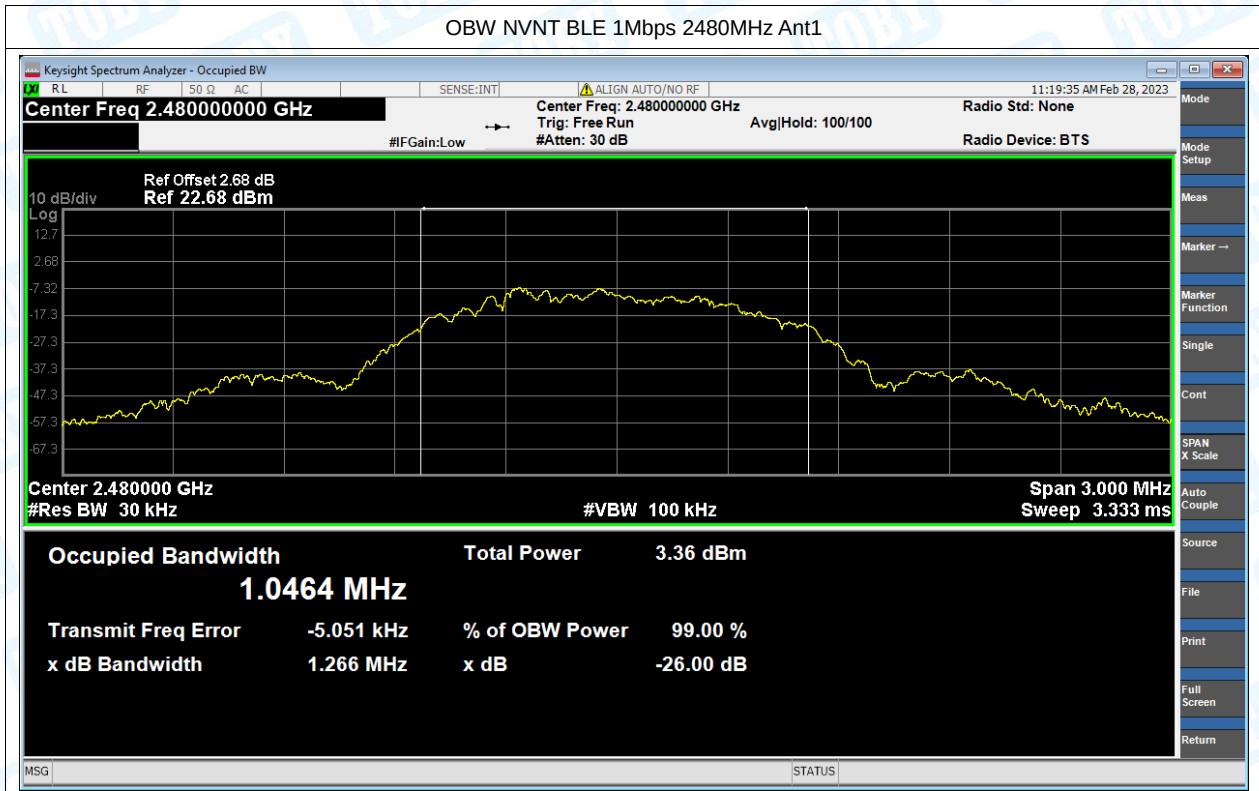
Test Graphs

OBW NVNT BLE 1Mbps 2402MHz Ant1



OBW NVNT BLE 1Mbps 2440MHz Ant1



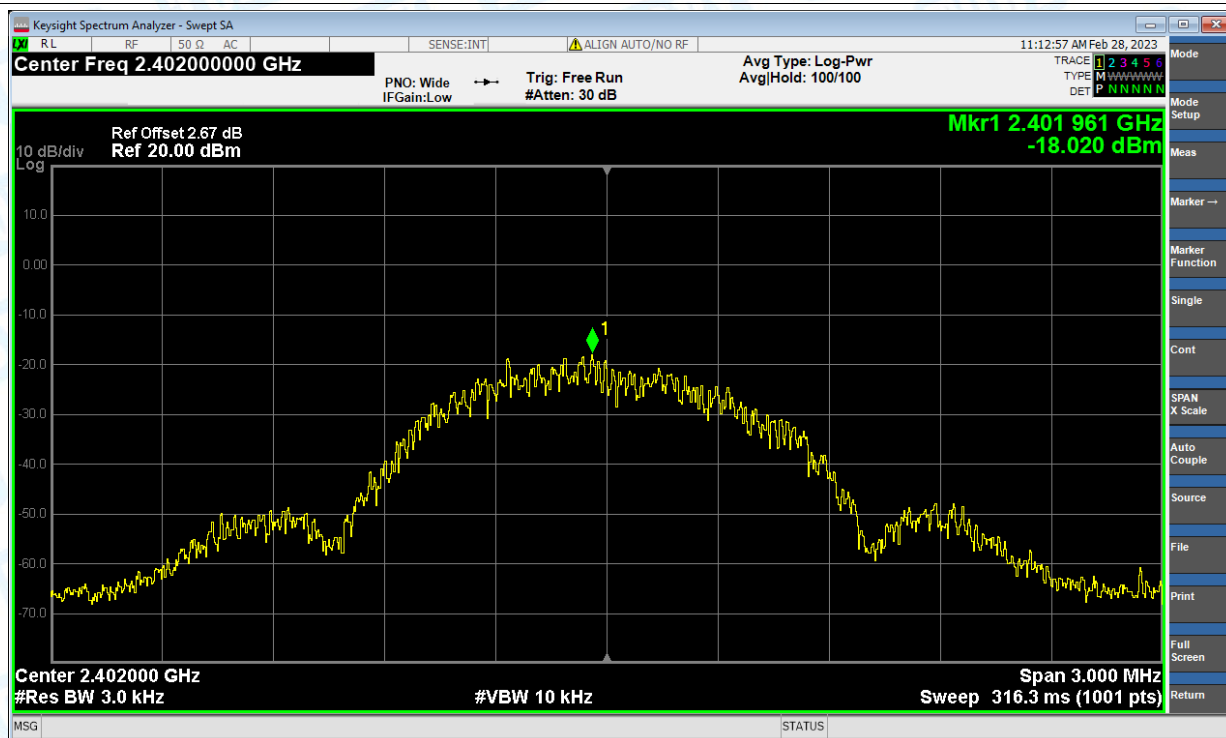


5. Maximum Power Spectral Density Level

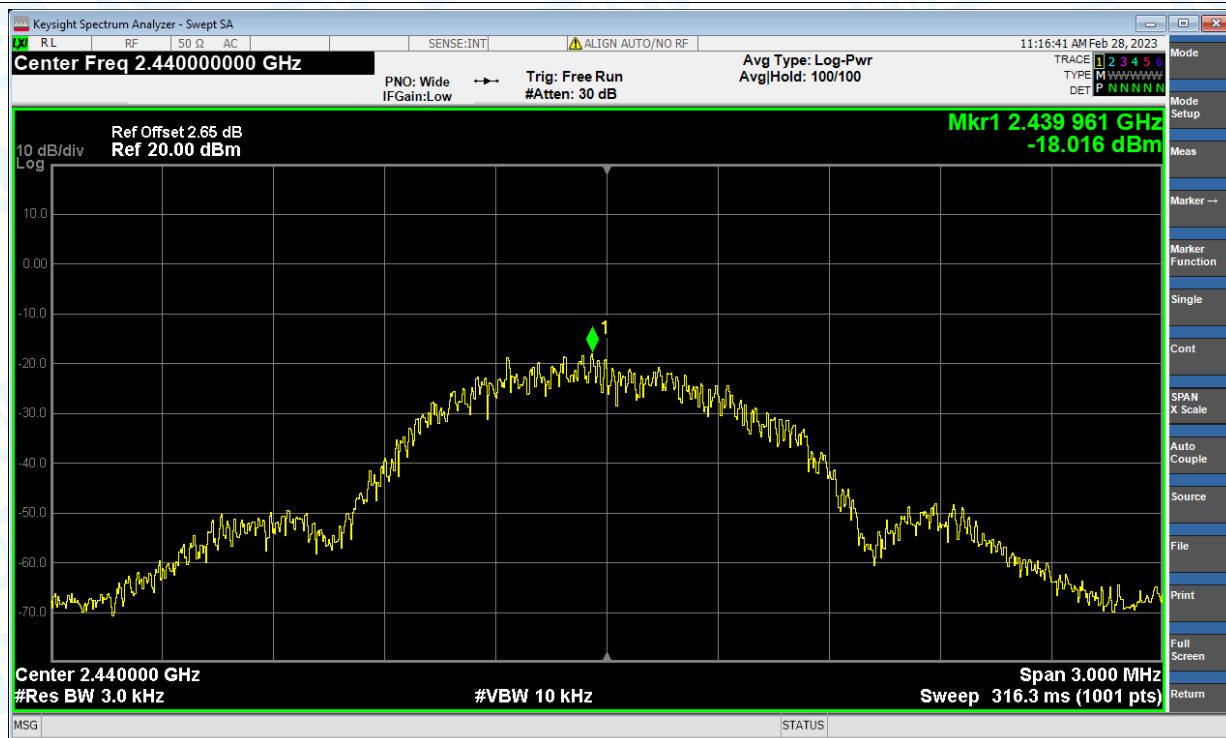
Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm/3KHz)	Limit (dBm/3KHz)	Verdict
NVNT	BLE 1Mbps	2402	Ant1	-18.02	8	Pass
NVNT	BLE 1Mbps	2440	Ant1	-18.016	8	Pass
NVNT	BLE 1Mbps	2480	Ant1	-17.67	8	Pass

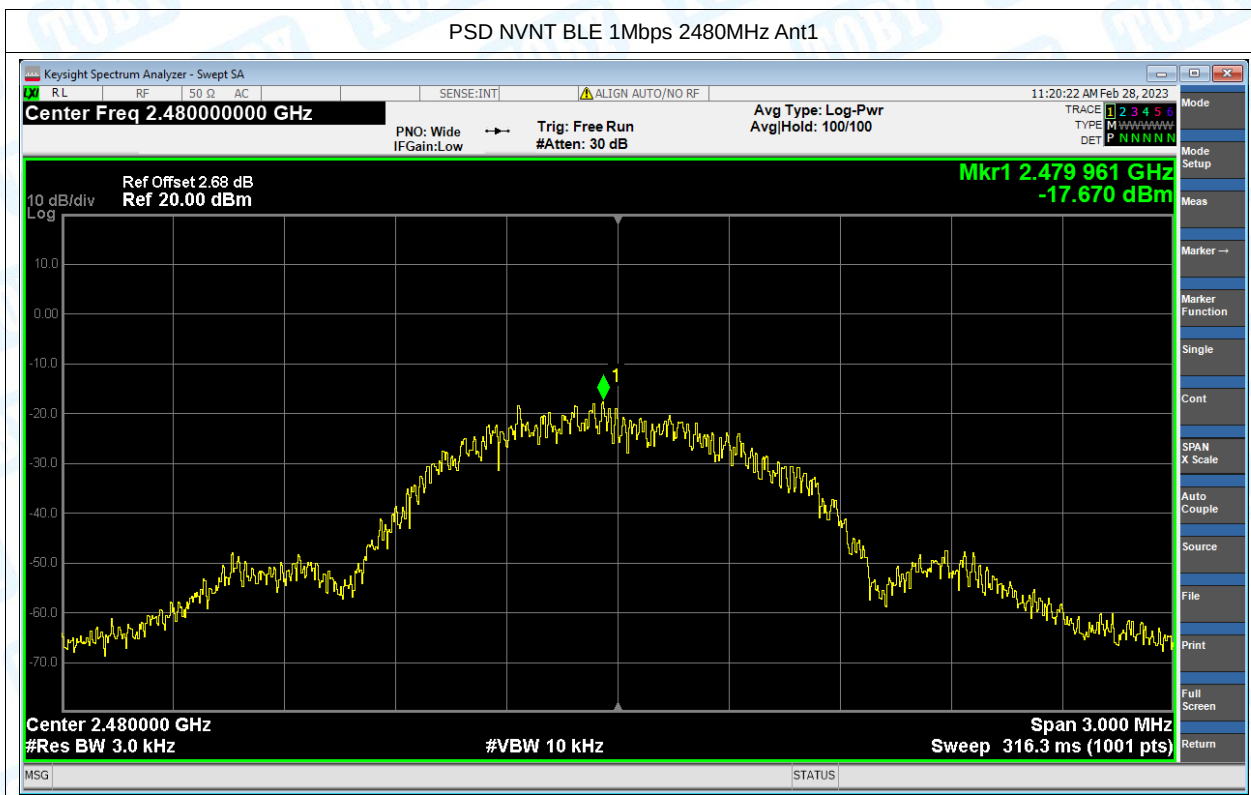
Test Graphs

PSD NVNT BLE 1Mbps 2402MHz Ant1



PSD NVNT BLE 1Mbps 2440MHz Ant1





6. Band Edge

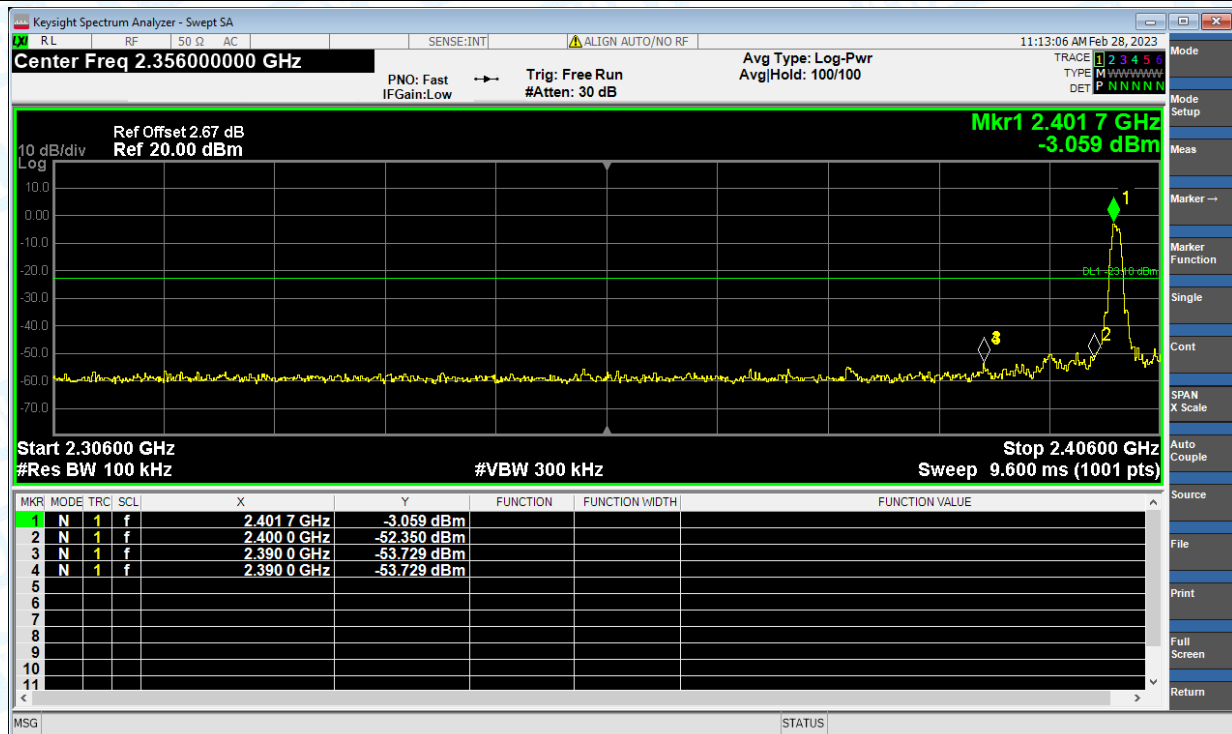
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1Mbps	2402	Ant1	-50.63	-20	Pass
NVNT	BLE 1Mbps	2480	Ant1	-45.51	-20	Pass

Test Graphs

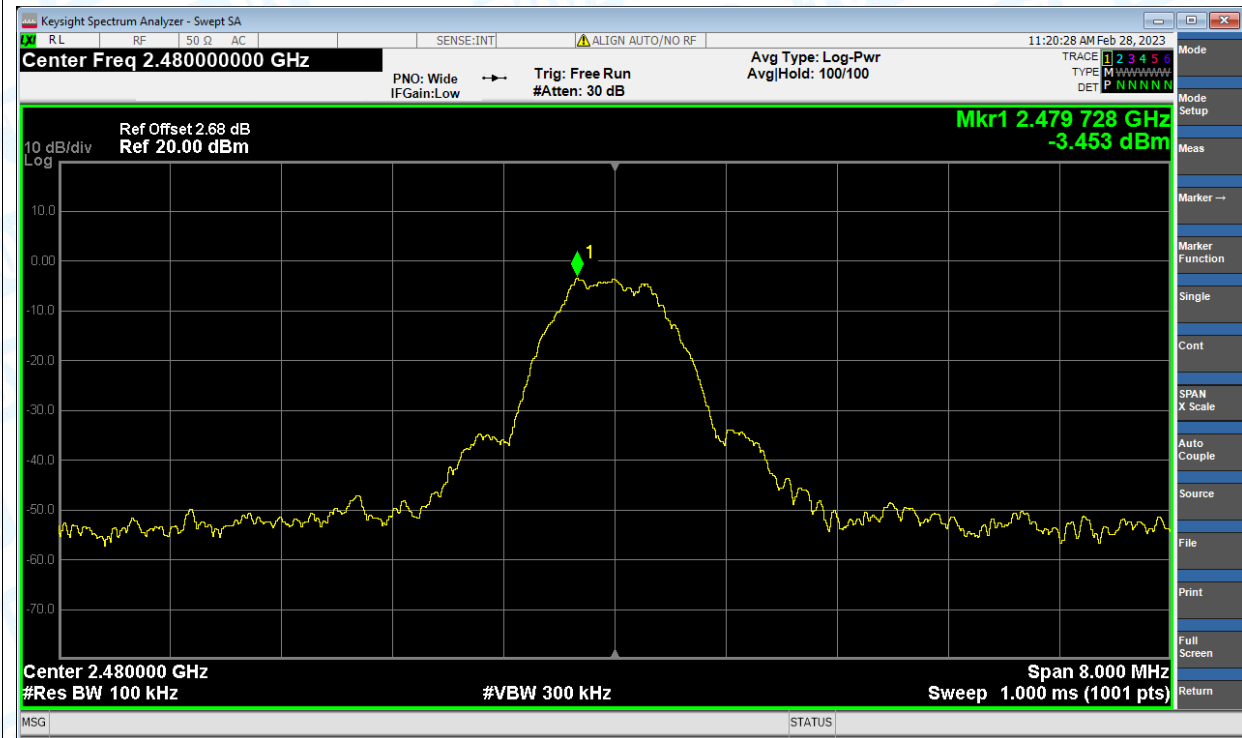
Band Edge NVNT BLE 1Mbps 2402MHz Ant1 Ref



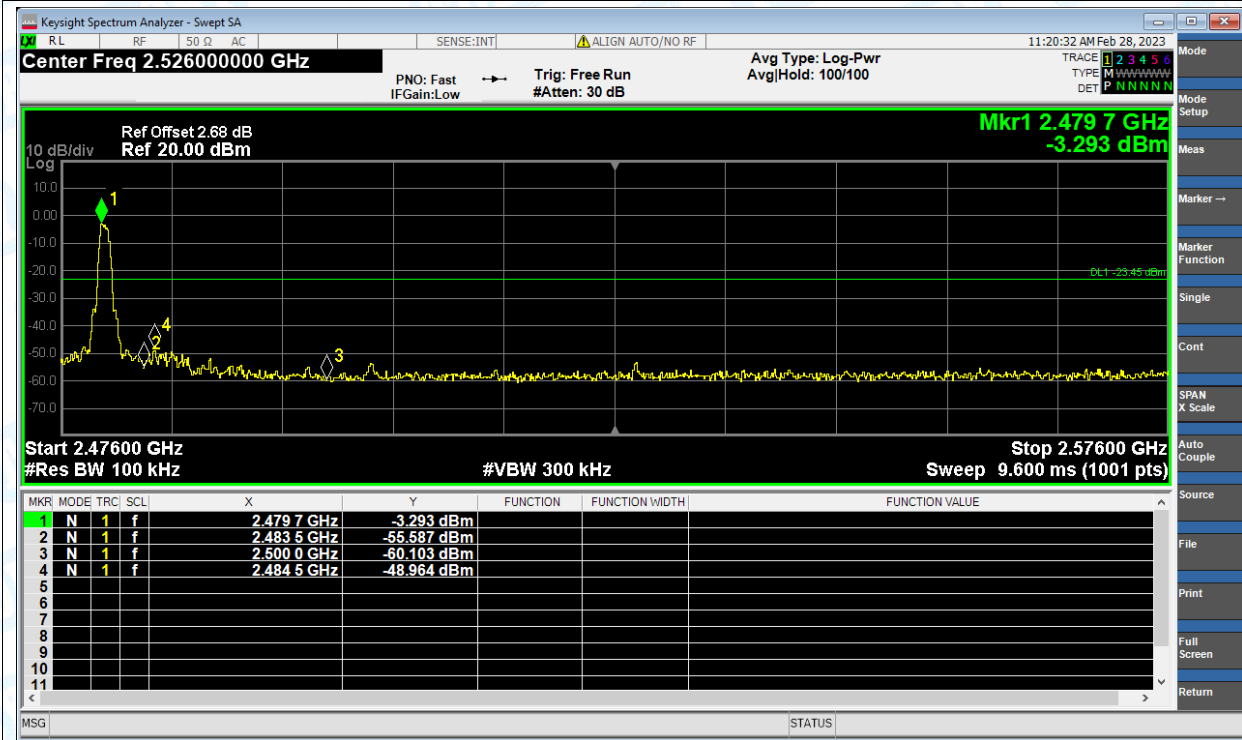
Band Edge NVNT BLE 1Mbps 2402MHz Ant1 Emission



Band Edge NVNT BLE 1Mbps 2480MHz Ant1 Ref



Band Edge NVNT BLE 1Mbps 2480MHz Ant1 Emission

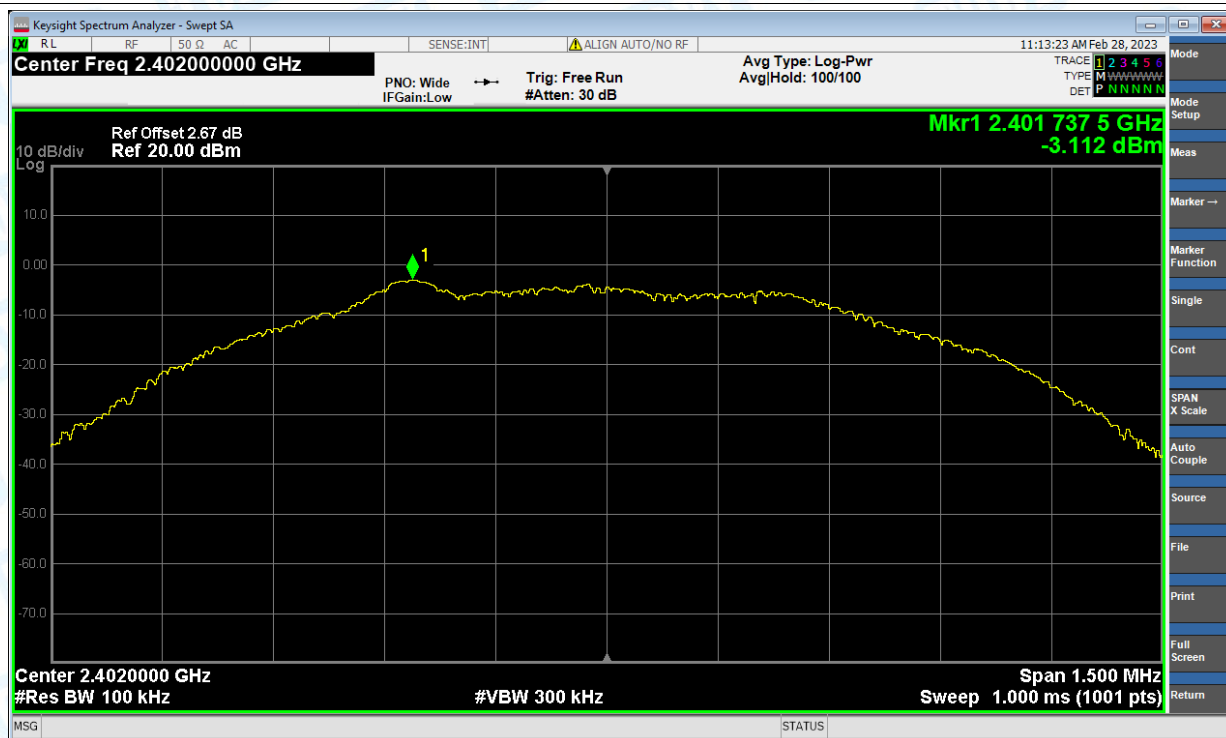


7. Conducted RF Spurious Emission

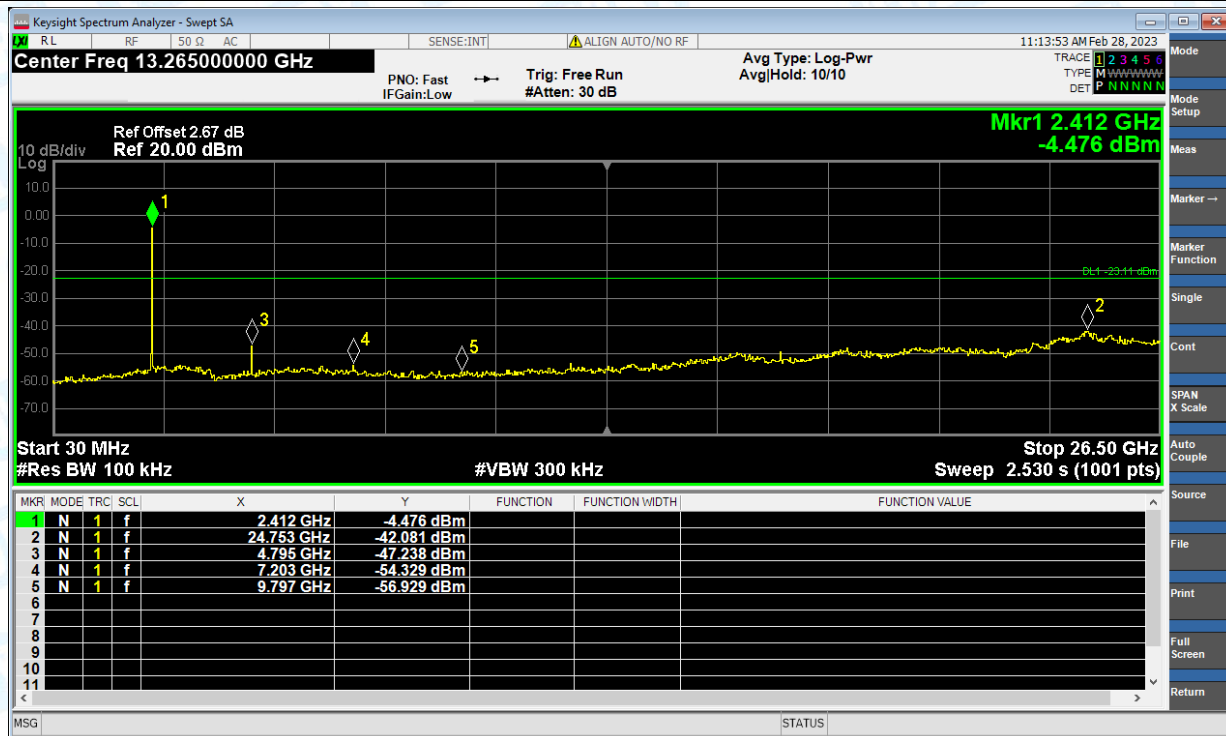
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1Mbps	2402	Ant1	-38.97	-20	Pass
NVNT	BLE 1Mbps	2440	Ant1	-38.44	-20	Pass
NVNT	BLE 1Mbps	2480	Ant1	-39.52	-20	Pass

Test Graphs

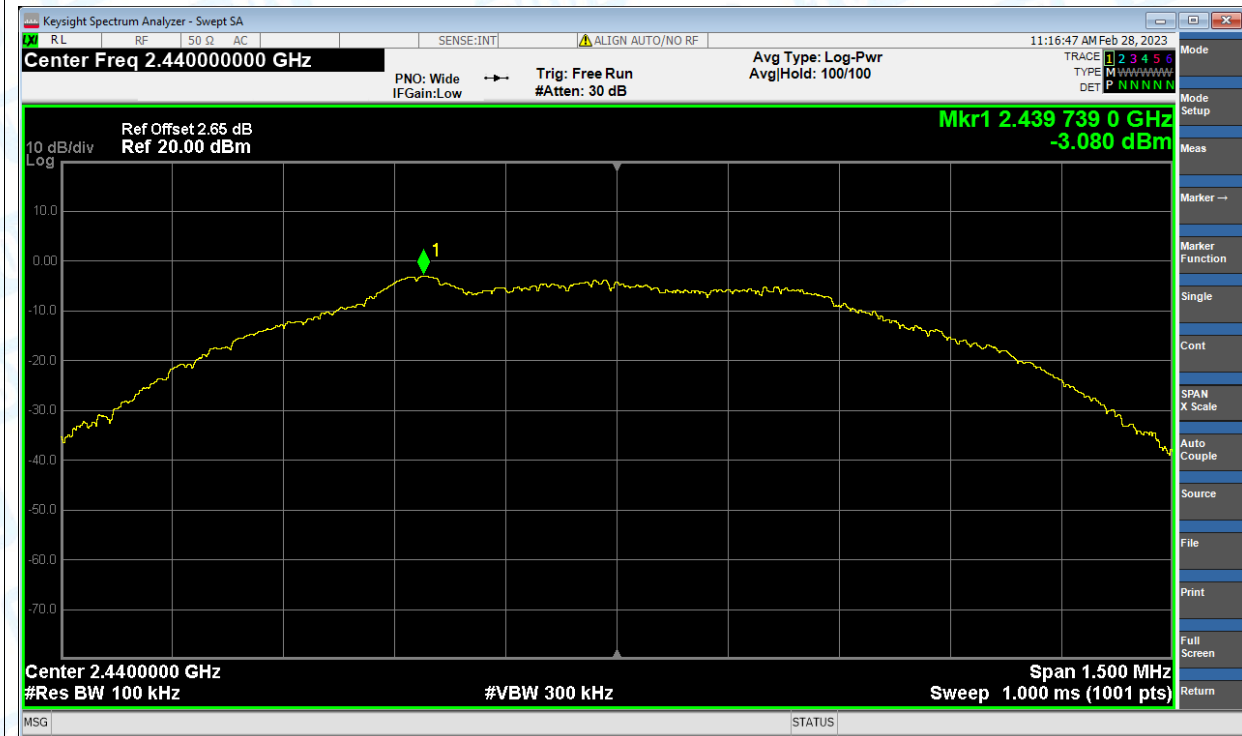
Tx. Spurious NVNT BLE 1Mbps 2402MHz Ant1 Ref



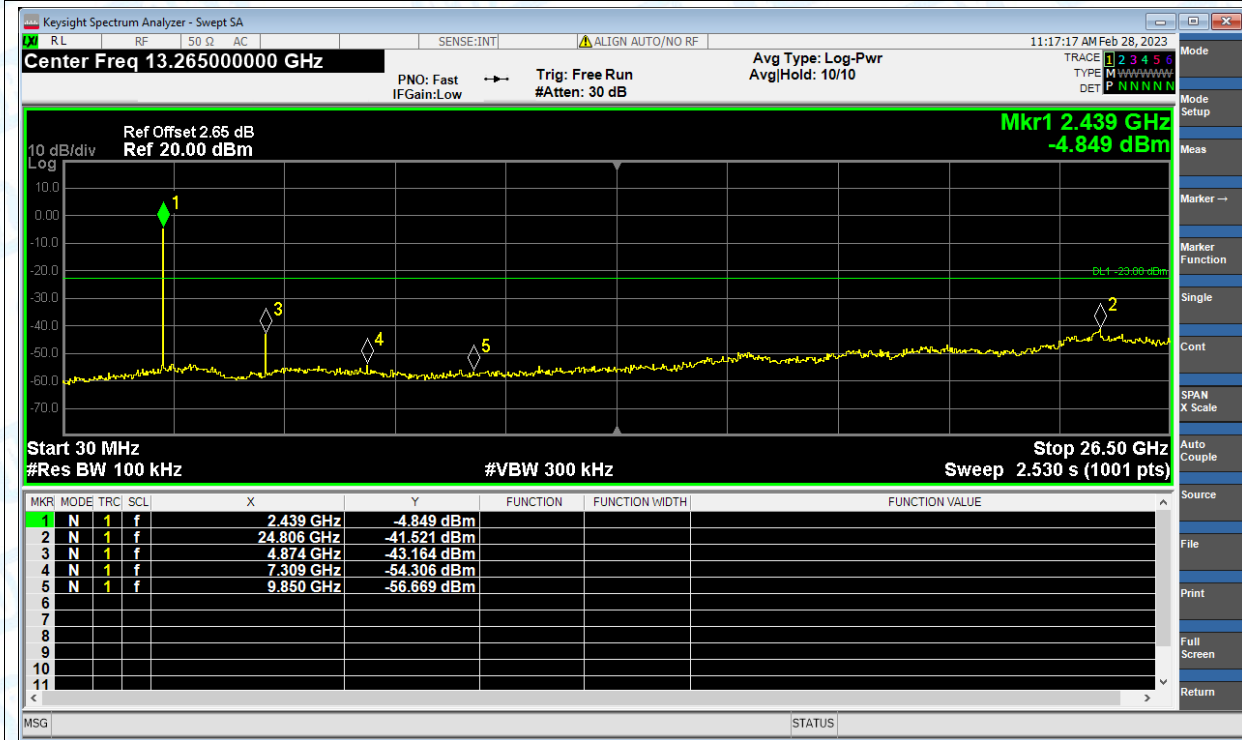
Tx. Spurious NVNT BLE 1Mbps 2402MHz Ant1 Emission



Tx. Spurious NVNT BLE 1Mbps 2440MHz Ant1 Ref



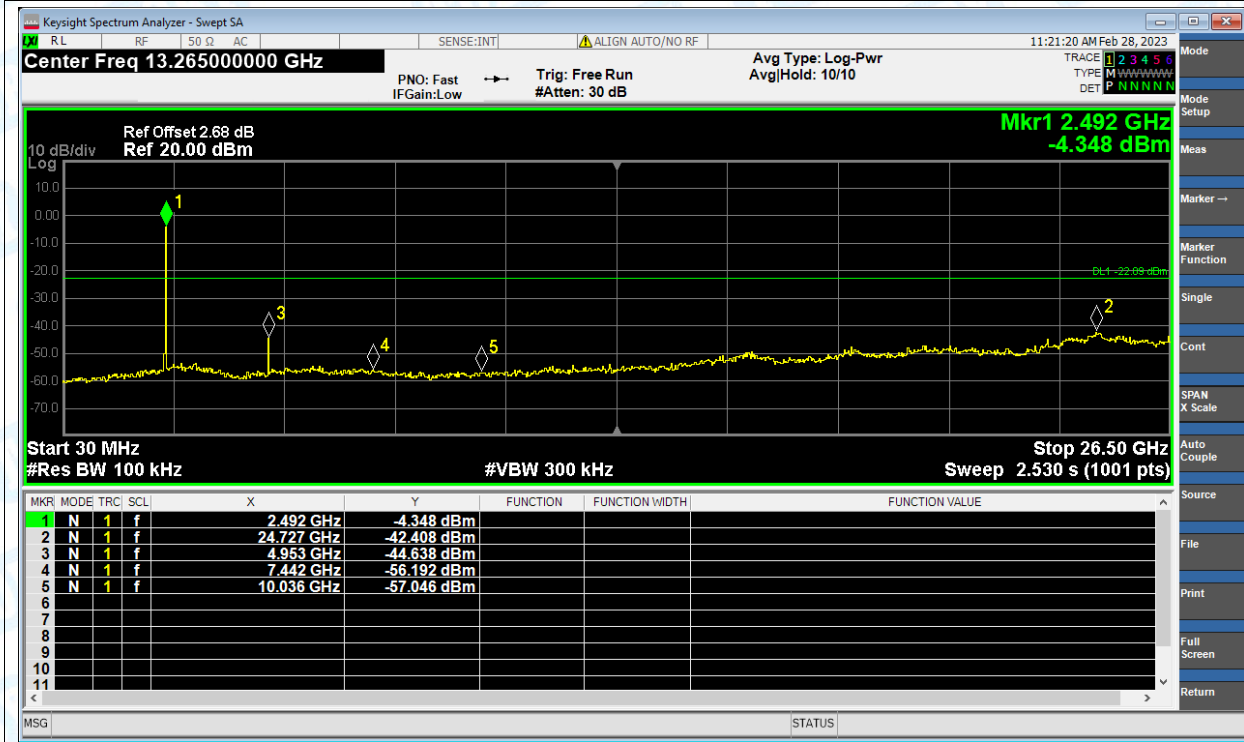
Tx. Spurious NVNT BLE 1Mbps 2440MHz Ant1 Emission



Tx. Spurious NVNT BLE 1Mbps 2480MHz Ant1 Ref



Tx. Spurious NVNT BLE 1Mbps 2480MHz Ant1 Emission

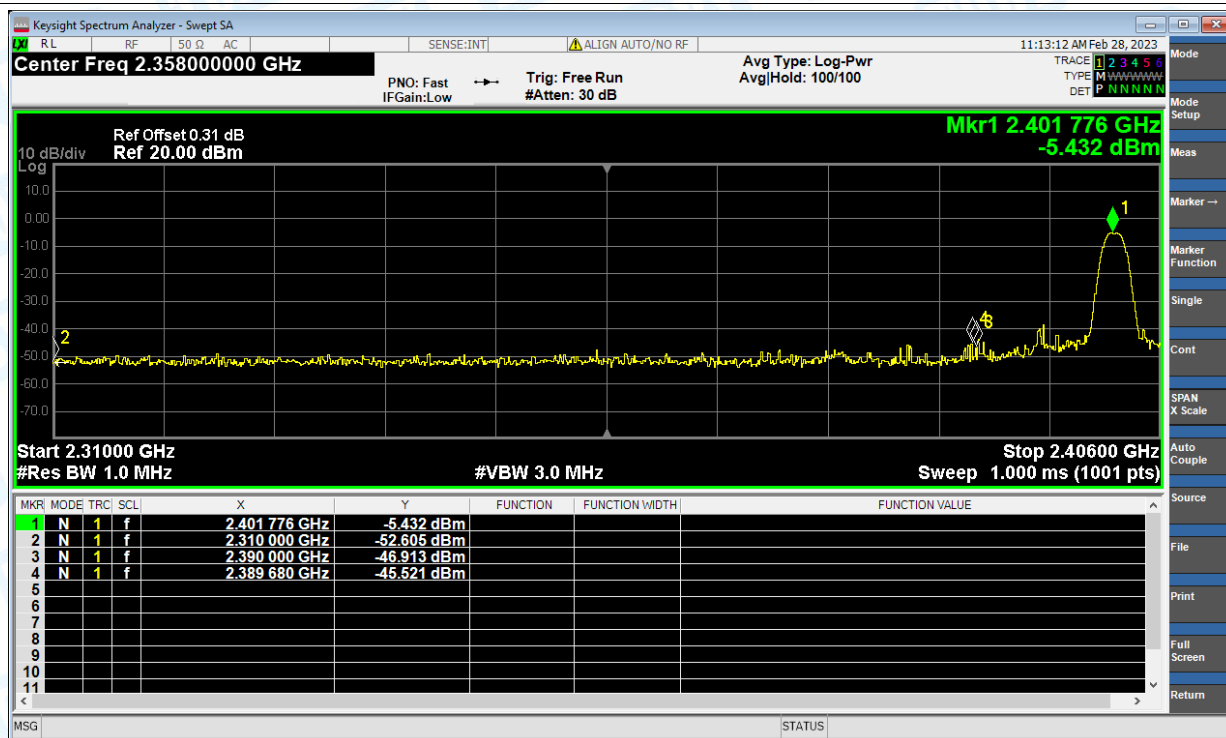


8. Restrict Band

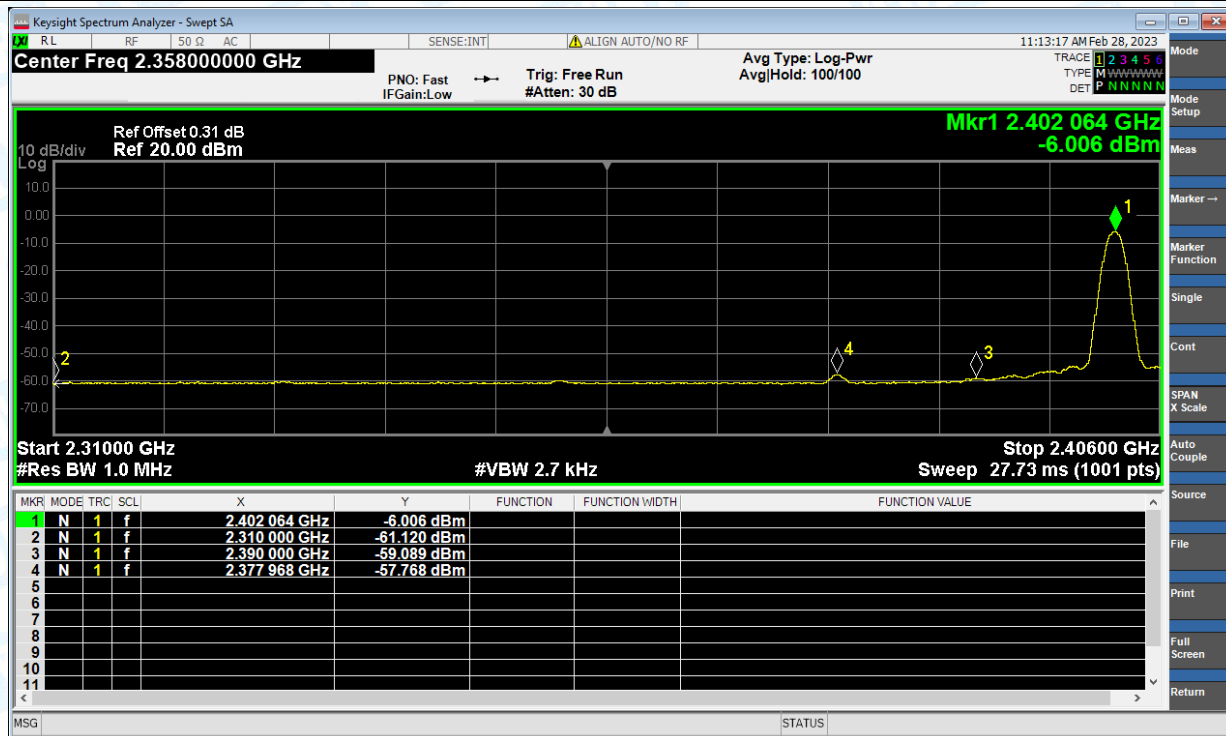
Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	BLE 1Mbps	2402	Ant1	2310	-52.61	3.85	46.5	Peak	74	Pass
NVNT	BLE 1Mbps	2402	Ant1	2310	-61.12	3.85	37.99	Average	54	Pass
NVNT	BLE 1Mbps	2402	Ant1	2389.68	-45.52	3.85	53.59	Peak	74	Pass
NVNT	BLE 1Mbps	2402	Ant1	2377.968	-57.77	3.85	41.34	Average	54	Pass
NVNT	BLE 1Mbps	2402	Ant1	2390	-51.06	3.85	48.05	Peak	74	Pass
NVNT	BLE 1Mbps	2402	Ant1	2390	-59.22	3.85	39.89	Average	54	Pass
NVNT	BLE 1Mbps	2480	Ant1	2483.5	-47.11	3.85	52	Peak	74	Pass
NVNT	BLE 1Mbps	2480	Ant1	2483.5	-53.96	3.85	45.15	Average	54	Pass
NVNT	BLE 1Mbps	2480	Ant1	2485.936	-36.56	3.85	62.55	Peak	74	Pass
NVNT	BLE 1Mbps	2480	Ant1	2484.208	-53.59	3.85	45.52	Average	54	Pass
NVNT	BLE 1Mbps	2480	Ant1	2500	-52.44	3.85	46.67	Peak	74	Pass
NVNT	BLE 1Mbps	2480	Ant1	2500	-60.49	3.85	38.62	Average	54	Pass

Test Graphs

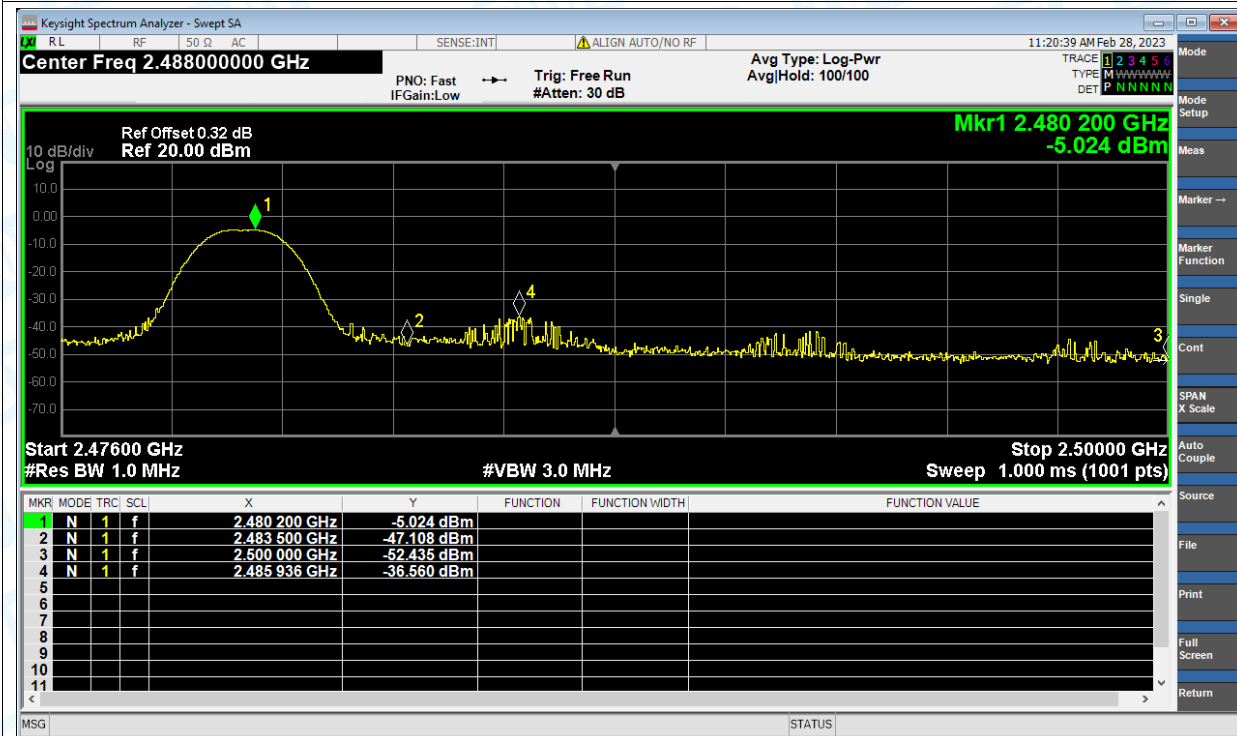
Restrict Band NVNT BLE 1Mbps 2402MHz Ant1 Peak



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-----