

RF Test Data for Bluetooth LE (Conducted Measurements)

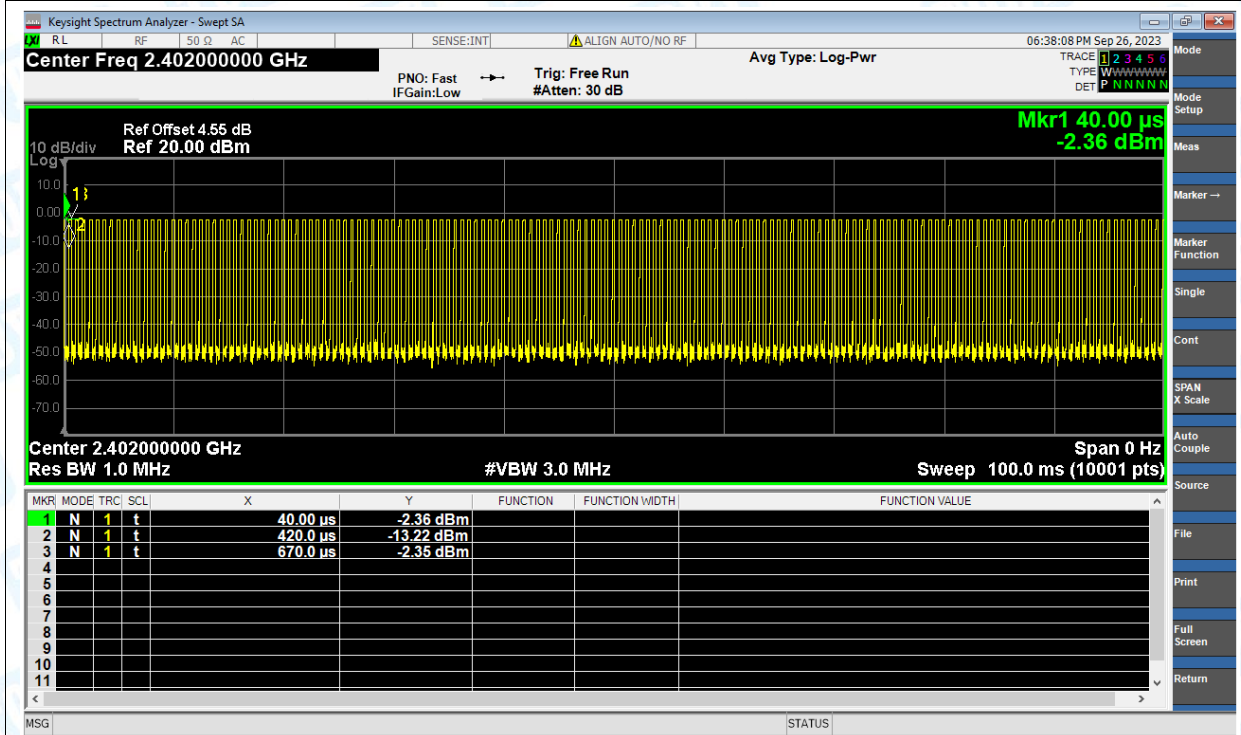
General Description of EUT	
Product Name:	Smart Battery Camera
Test Model:	CG6
Sample ID:	HC-C-202309-0097-01-01-2#
Environmental Conditions	
Temperature:	23.8°C
Relative Humidity:	48%
Test Voltage:	DC 3.7V
Test Engineer:	Zhou Zhen
Note: For a more detailed features description, please refer to the report TBR-C-202309-0097-11 The report only show the worst case data.	

1. Duty Cycle

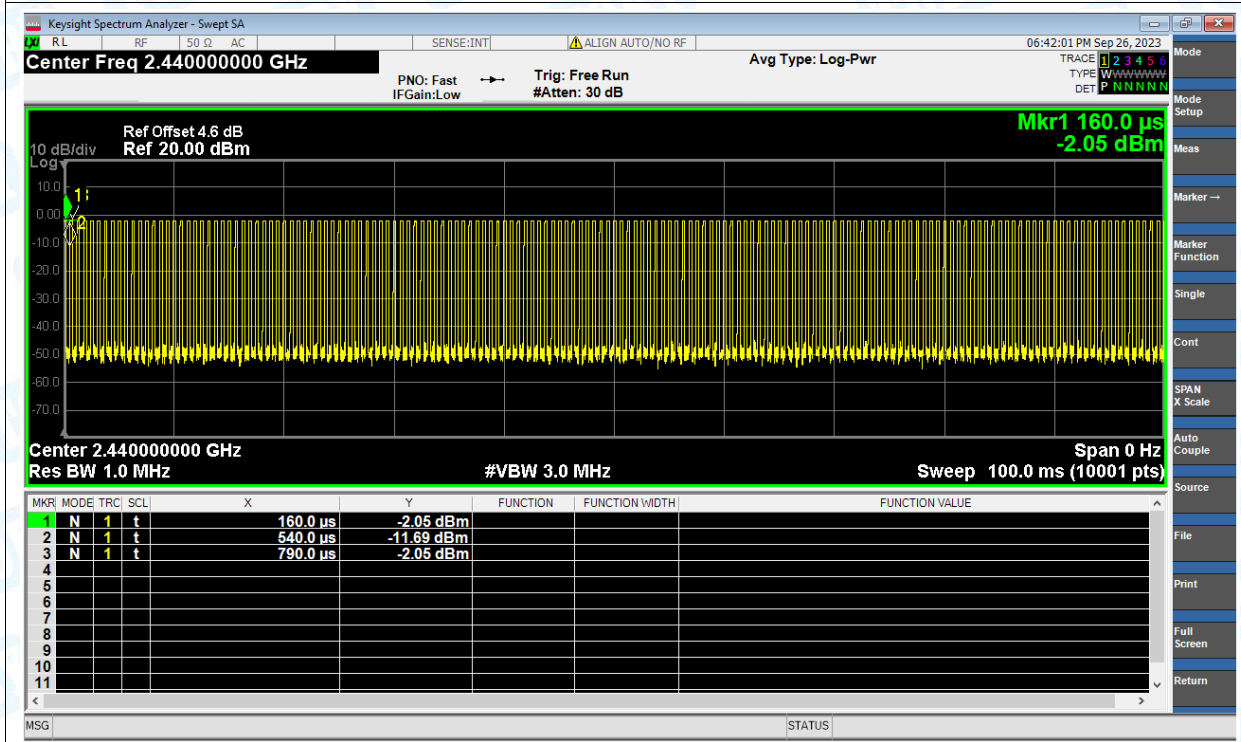
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	BLE 1Mbps	2402	Ant1	39.68	4.01	4
NVNT	BLE 1Mbps	2440	Ant1	39.68	4.01	4
NVNT	BLE 1Mbps	2480	Ant1	38.71	4.12	4.17

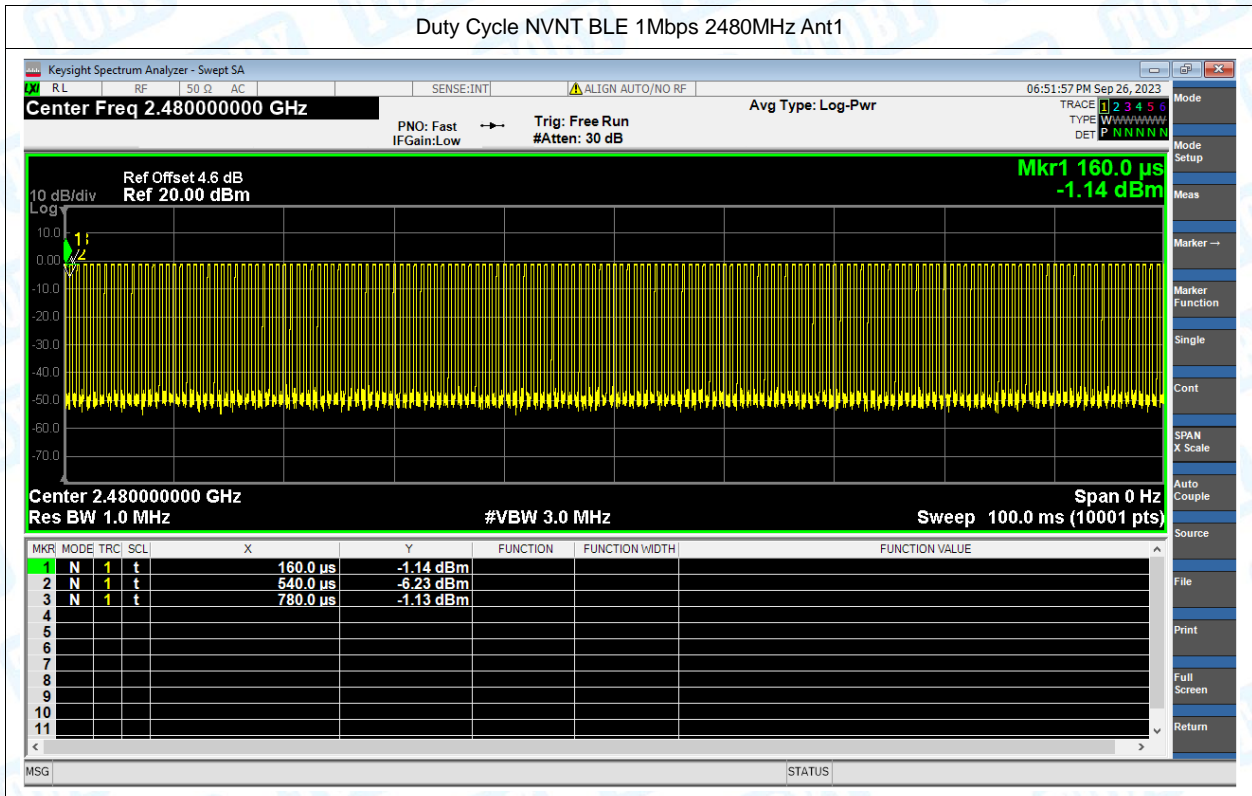
Test Graphs

Duty Cycle NVNT BLE 1Mbps 2402MHz Ant1



Duty Cycle NVNT BLE 1Mbps 2440MHz Ant1



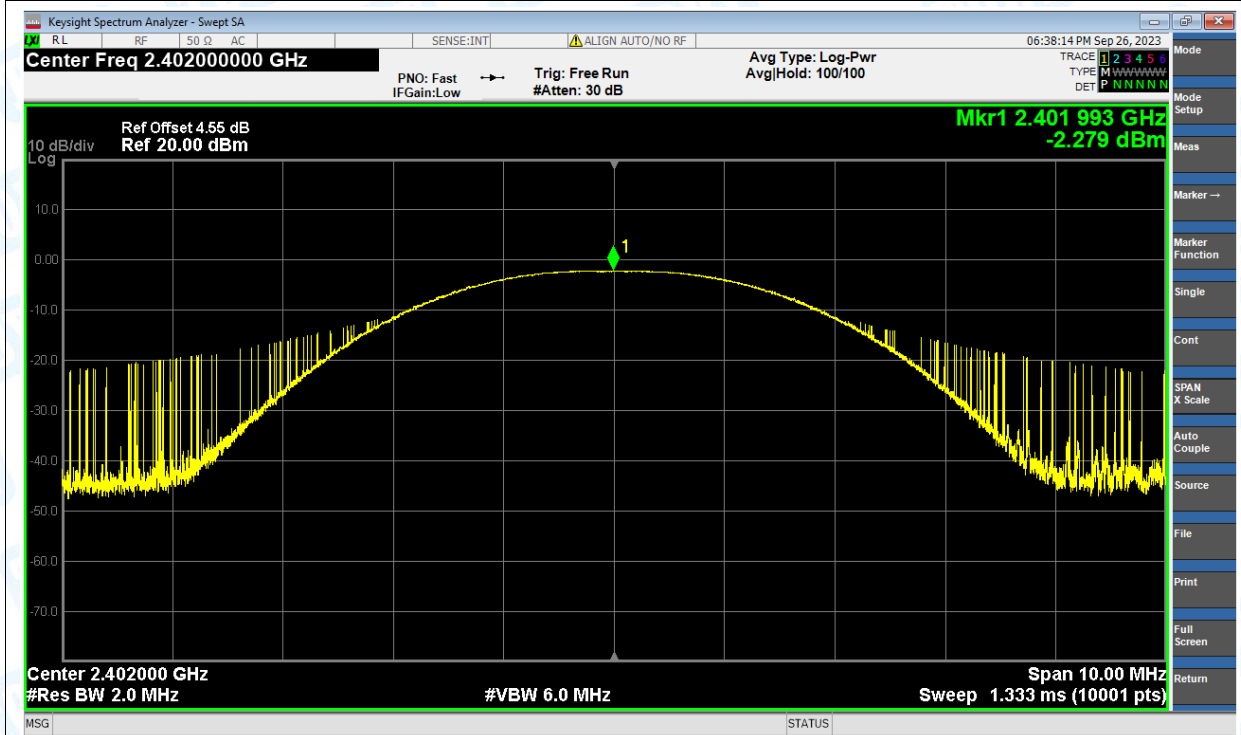


2. Maximum Conducted Output Power

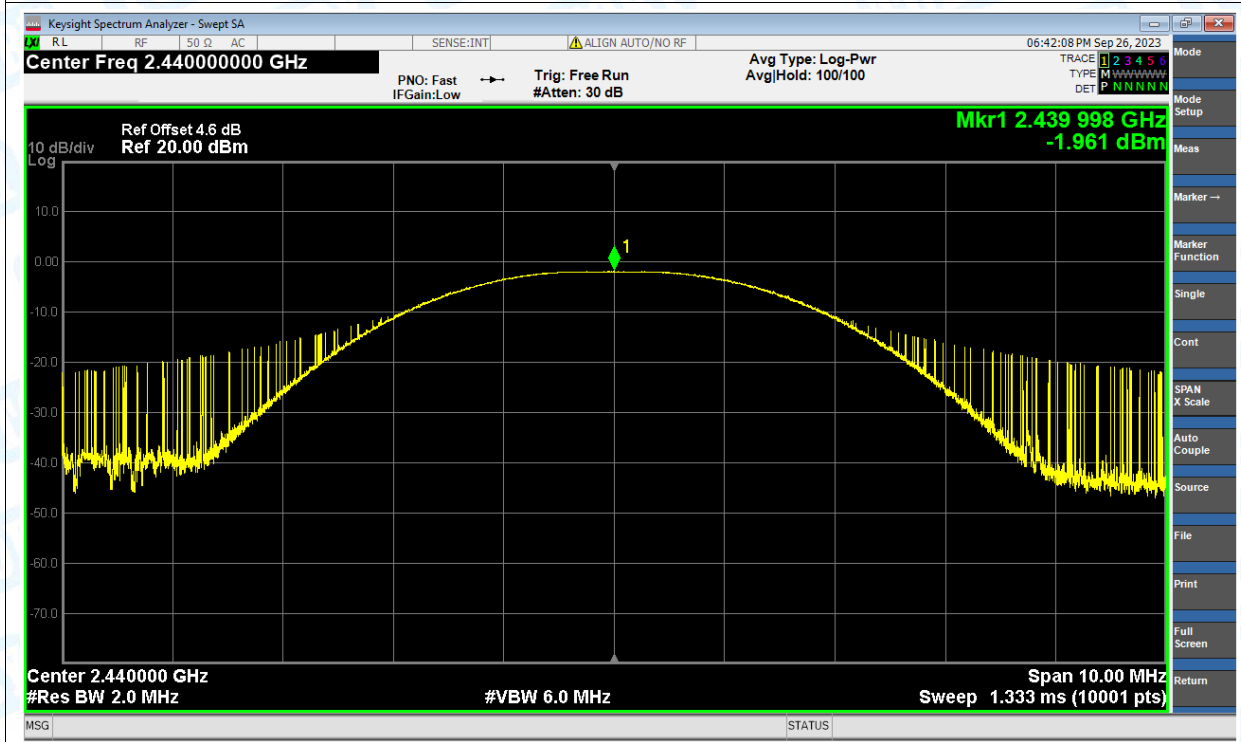
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1Mbps	2402	Ant1	-2.279	30	Pass
NVNT	BLE 1Mbps	2440	Ant1	-1.961	30	Pass
NVNT	BLE 1Mbps	2480	Ant1	-1.046	30	Pass

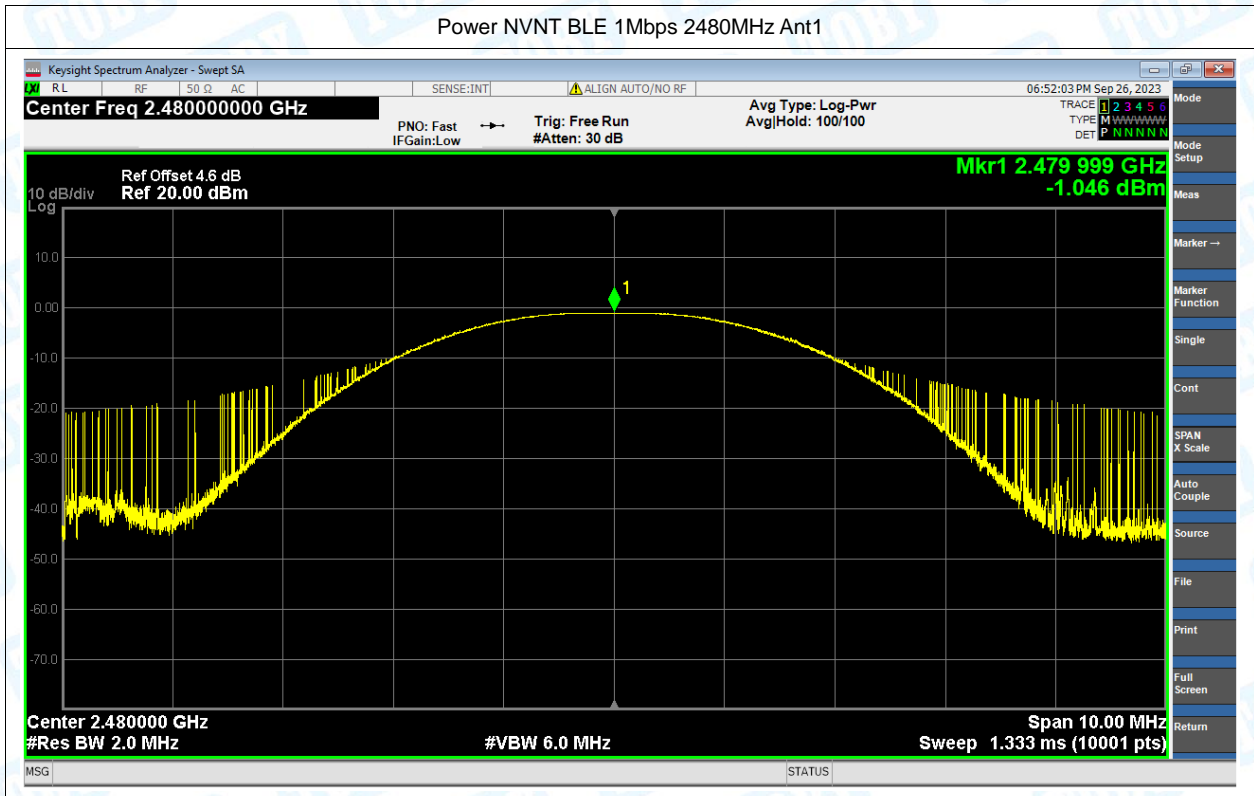
Test Graphs

Power NVNT BLE 1Mbps 2402MHz Ant1



Power NVNT BLE 1Mbps 2440MHz Ant1





3. -6dB Bandwidth

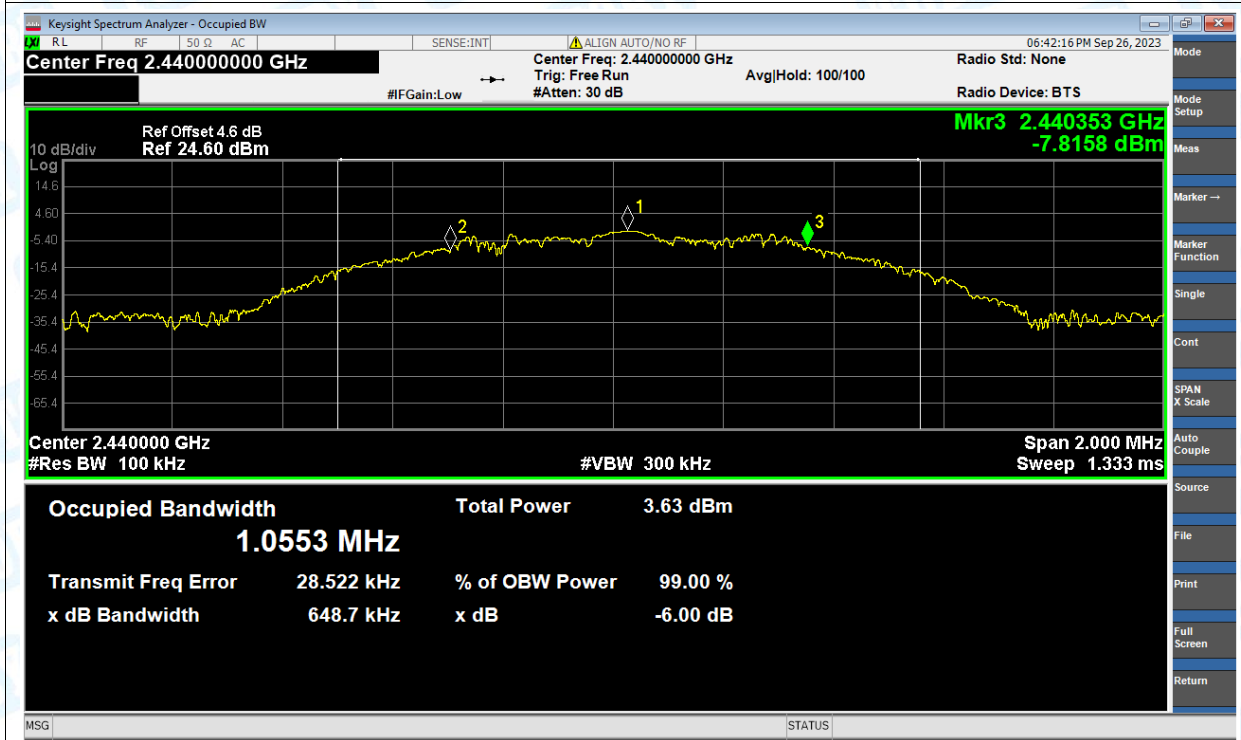
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1Mbps	2402	Ant1	0.65	0.5	Pass
NVNT	BLE 1Mbps	2440	Ant1	0.65	0.5	Pass
NVNT	BLE 1Mbps	2480	Ant1	0.64	0.5	Pass

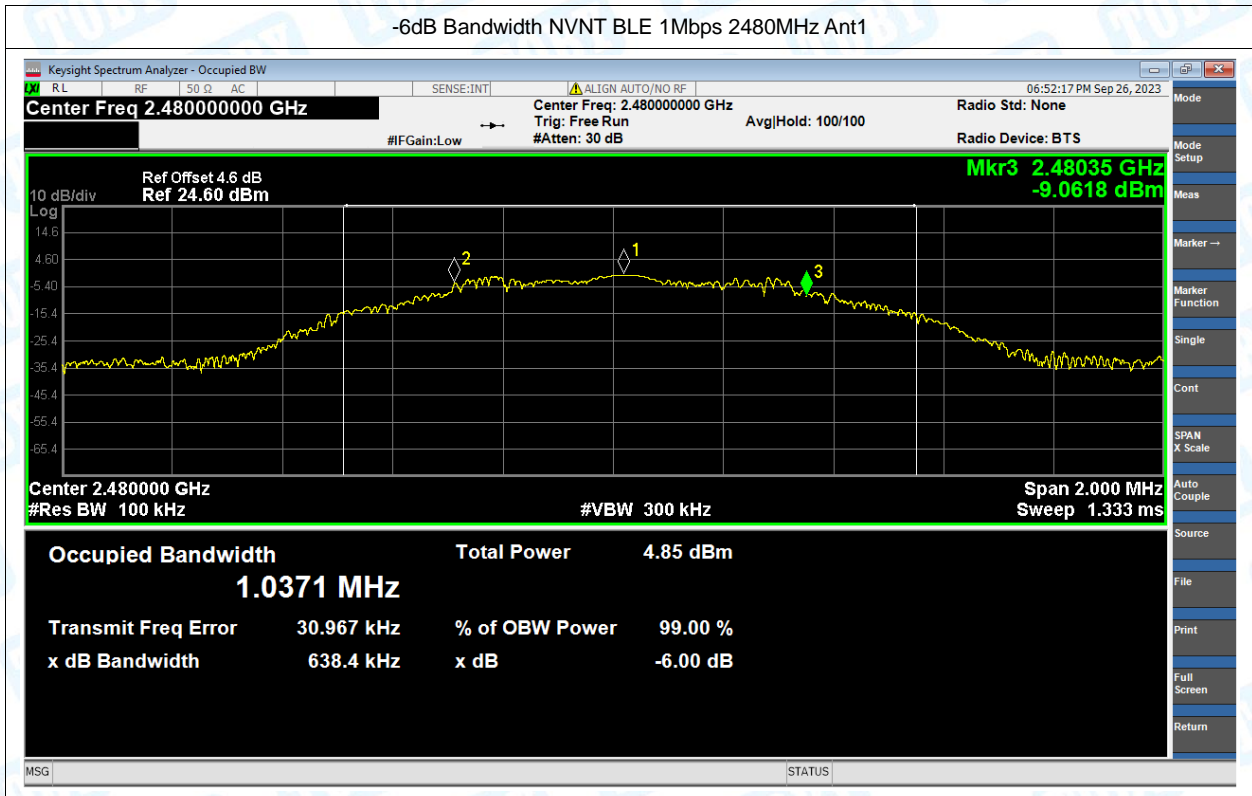
Test Graphs

-6dB Bandwidth NVNT BLE 1Mbps 2402MHz Ant1



-6dB Bandwidth NVNT BLE 1Mbps 2440MHz Ant1



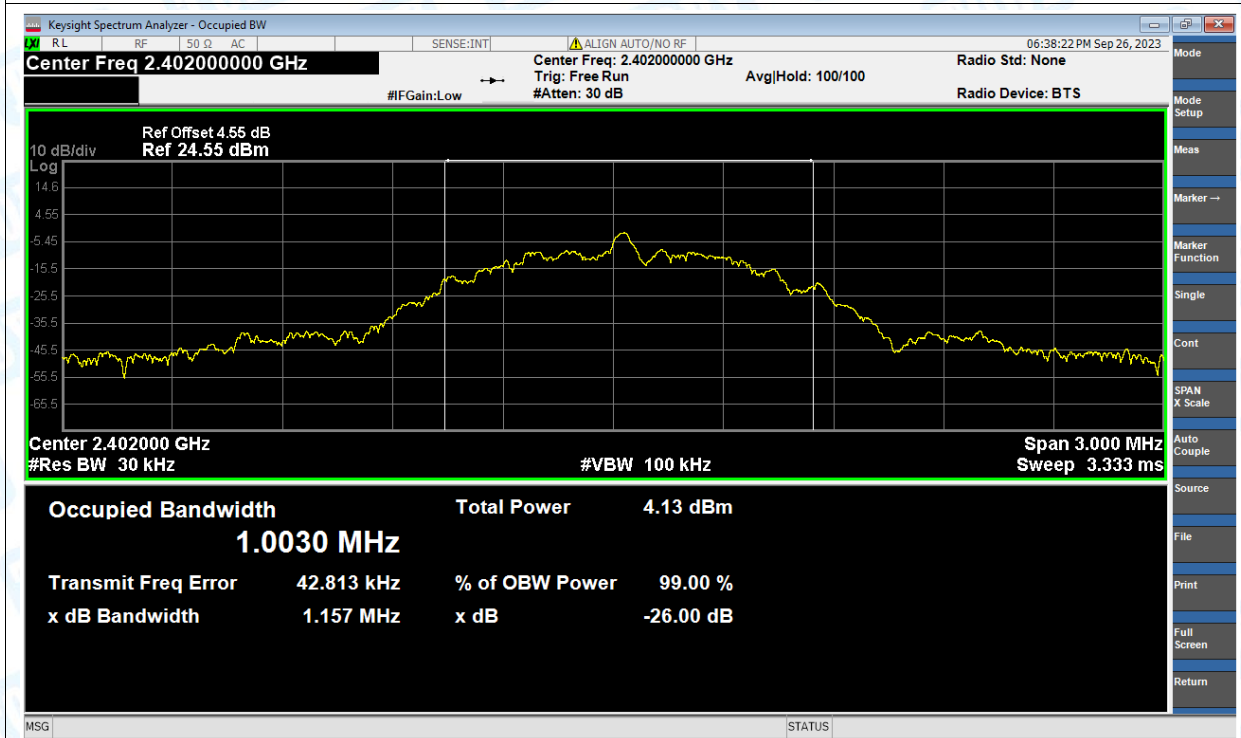


4. Occupied Channel Bandwidth

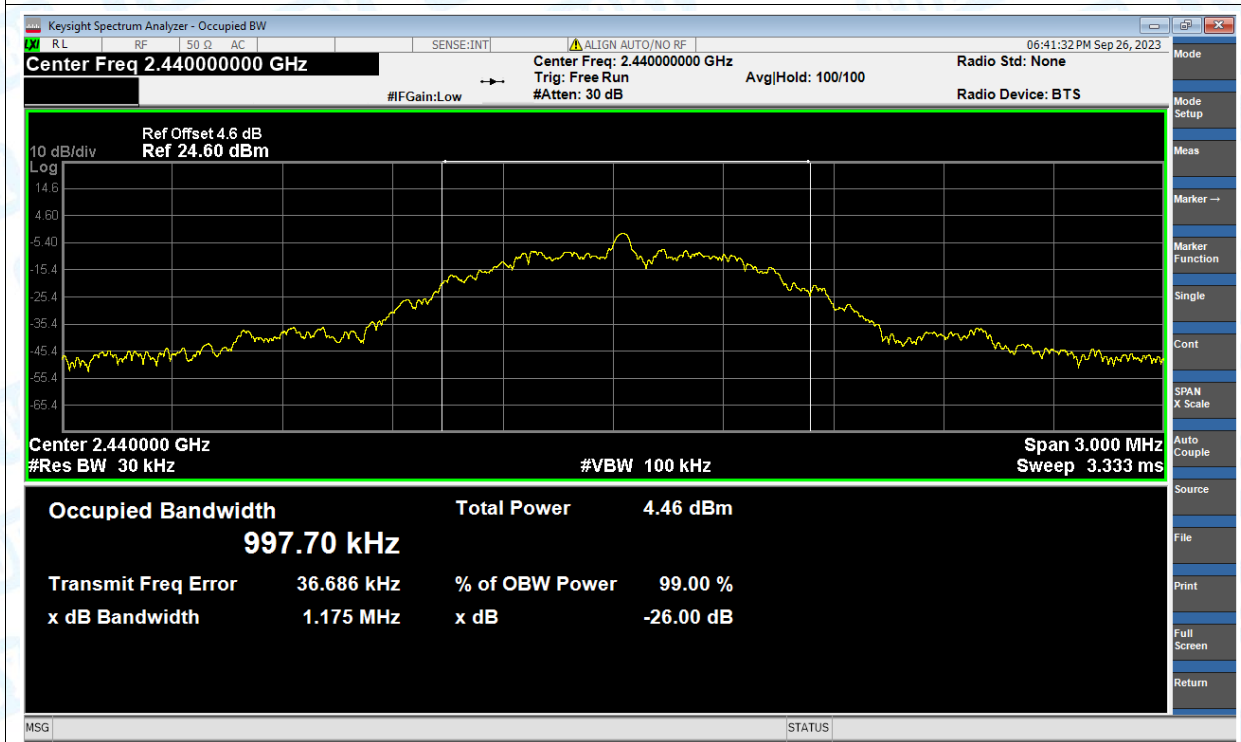
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	BLE 1Mbps	2402	Ant1	1.003
NVNT	BLE 1Mbps	2440	Ant1	0.998
NVNT	BLE 1Mbps	2480	Ant1	1.002

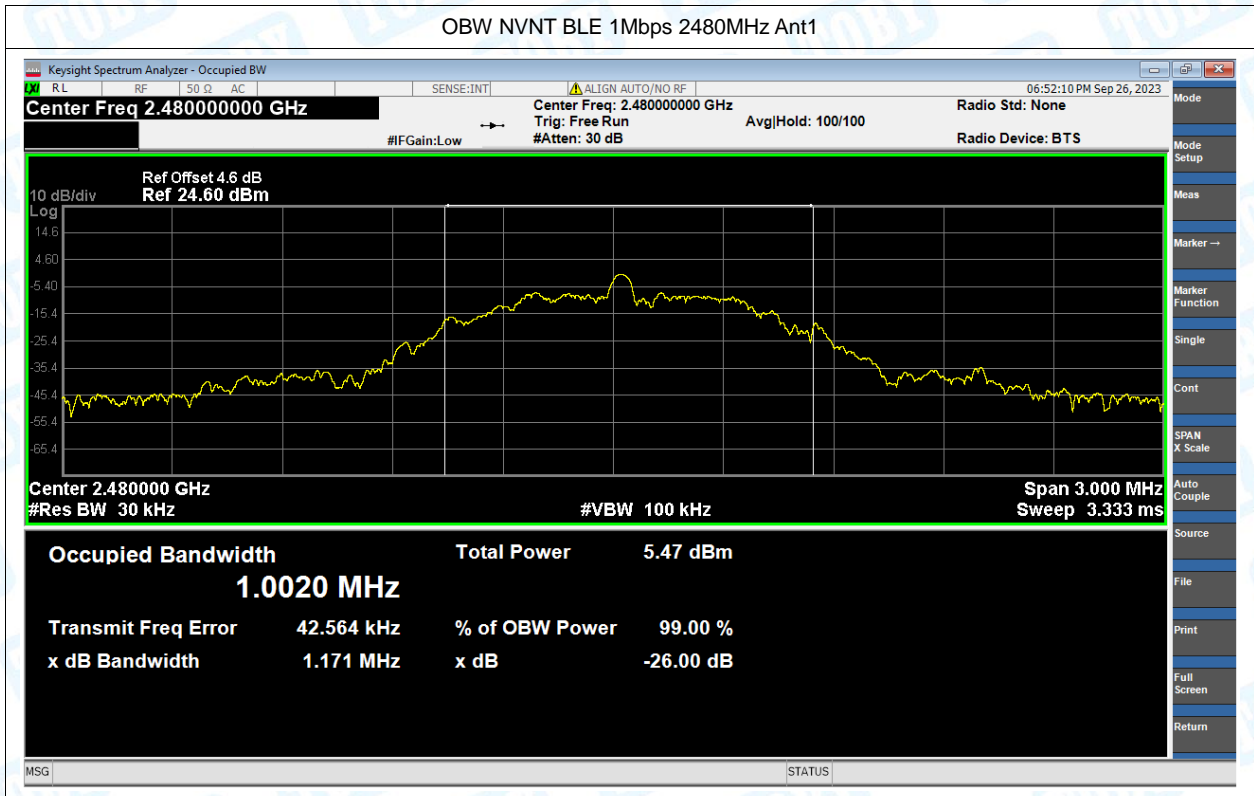
Test Graphs

OBW NVNT BLE 1Mbps 2402MHz Ant1



OBW NVNT BLE 1Mbps 2440MHz Ant1



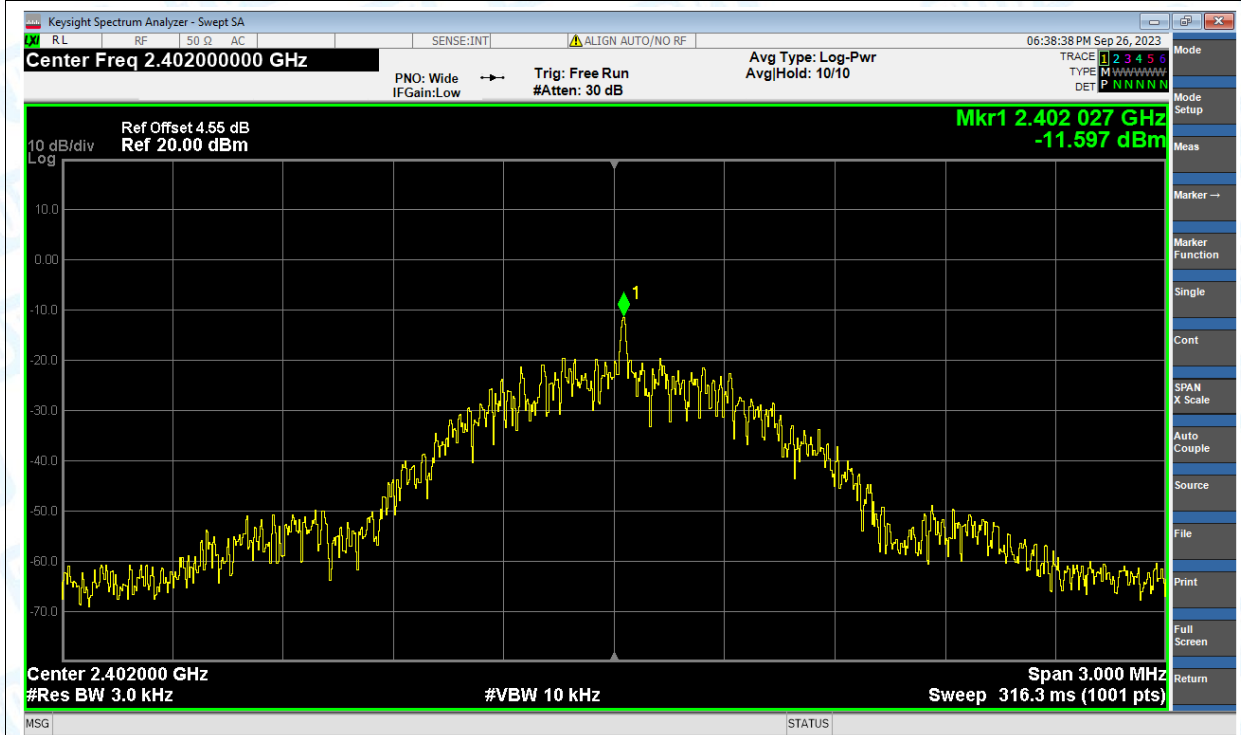


5. Maximum Power Spectral Density Level

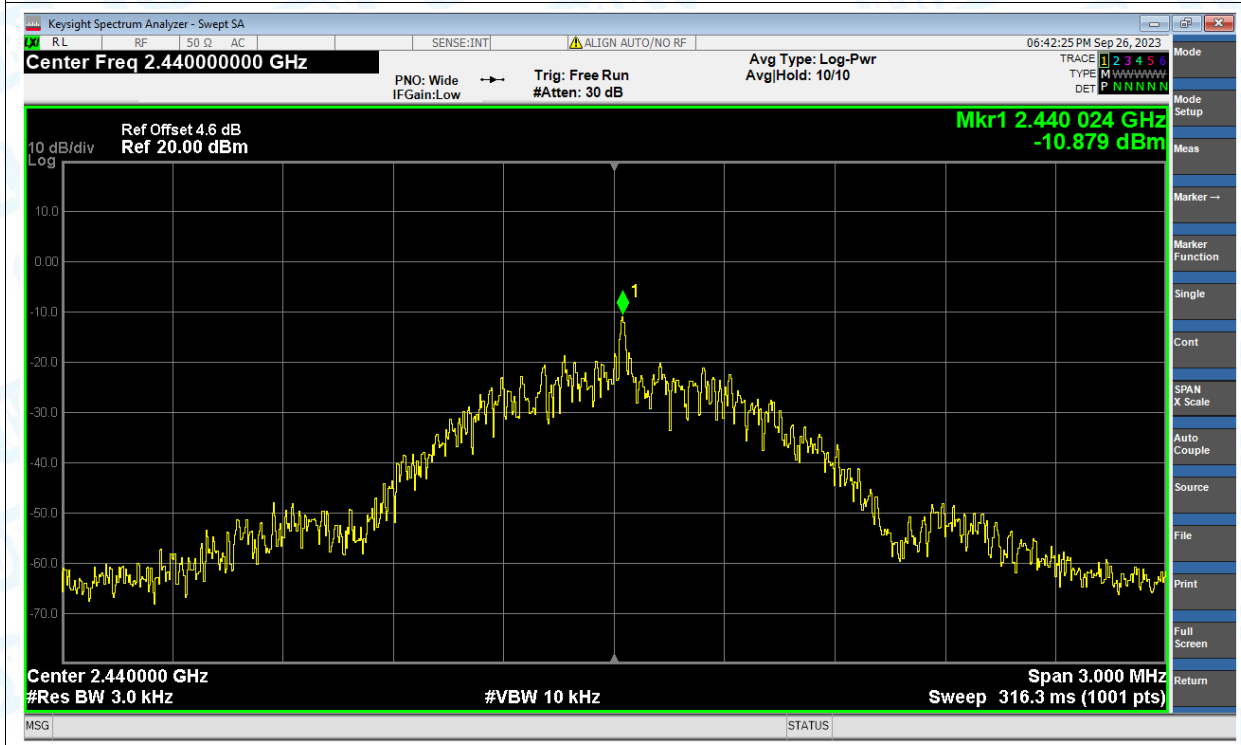
Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm/3kHz)	Limit(dBm/3kHz)	Verdict
NVNT	BLE 1Mbps	2402	Ant1	-11.597	8	Pass
NVNT	BLE 1Mbps	2440	Ant1	-10.879	8	Pass
NVNT	BLE 1Mbps	2480	Ant1	-11.287	8	Pass

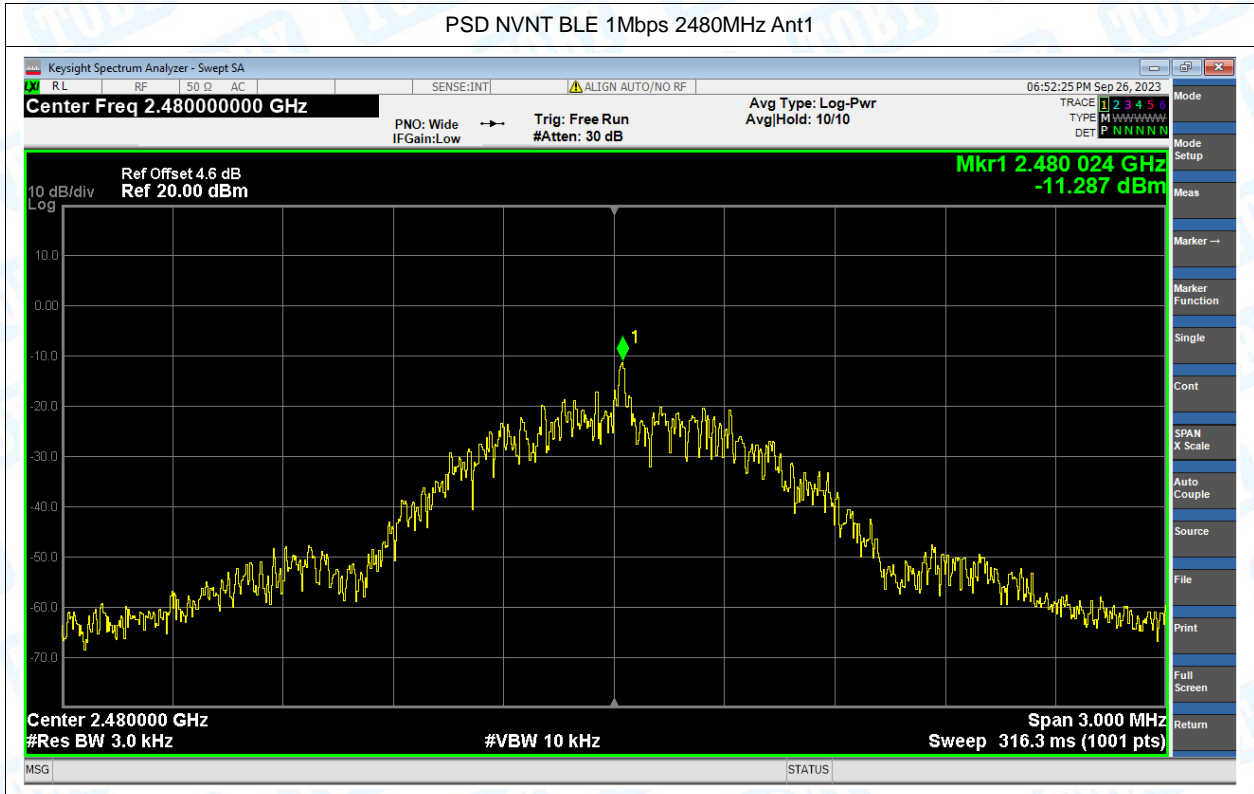
Test Graphs

PSD NVNT BLE 1Mbps 2402MHz Ant1



PSD NVNT BLE 1Mbps 2440MHz Ant1



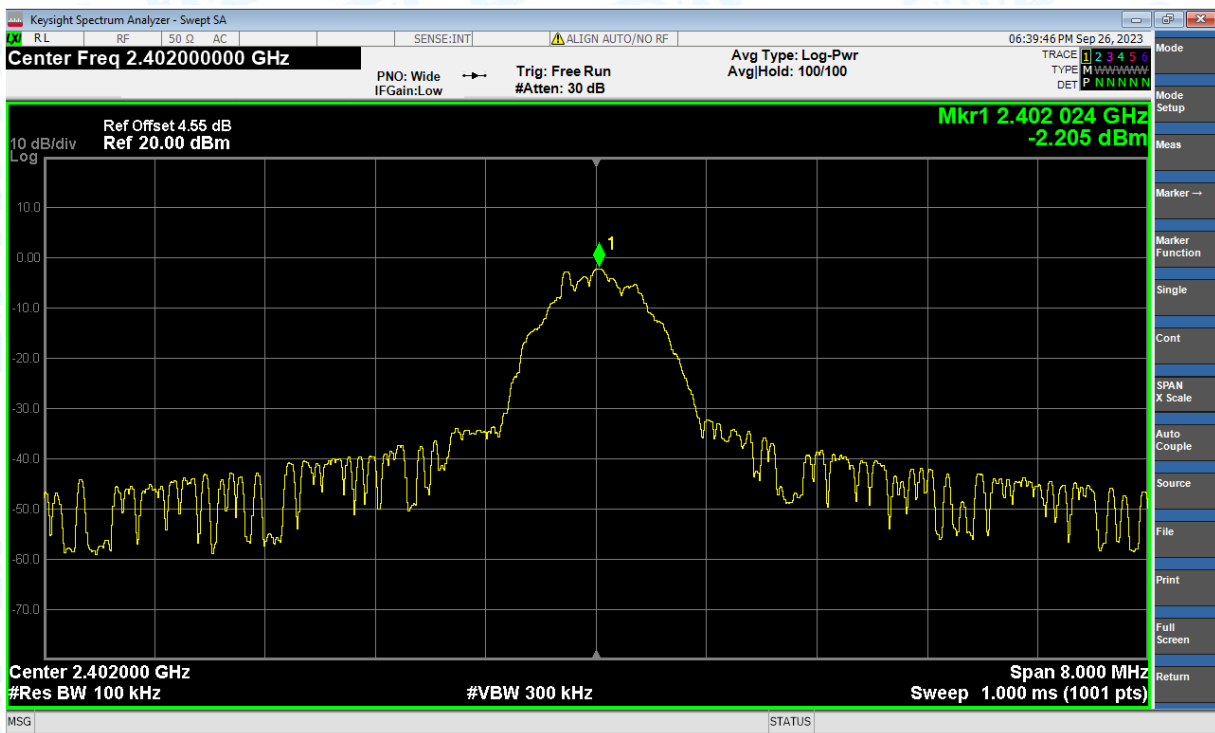


6. Band Edge

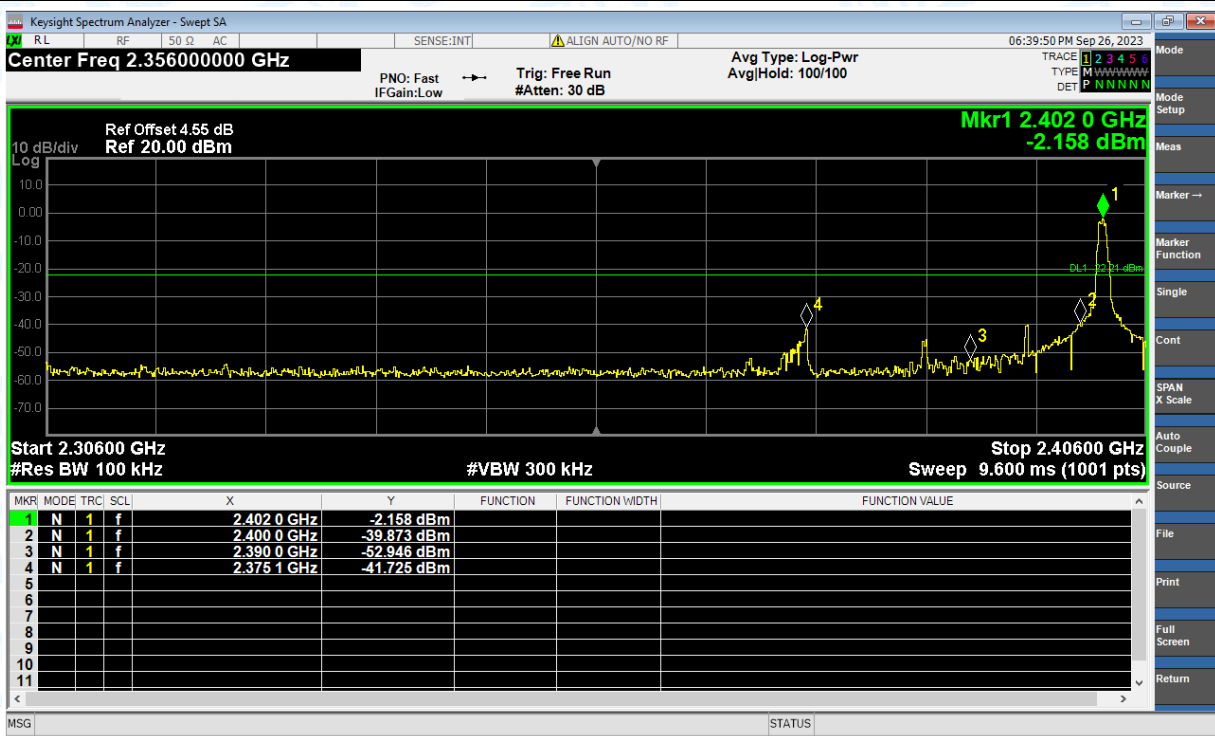
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1Mbps	2402	Ant1	-39.53	-20	Pass
NVNT	BLE 1Mbps	2480	Ant1	-42.81	-20	Pass

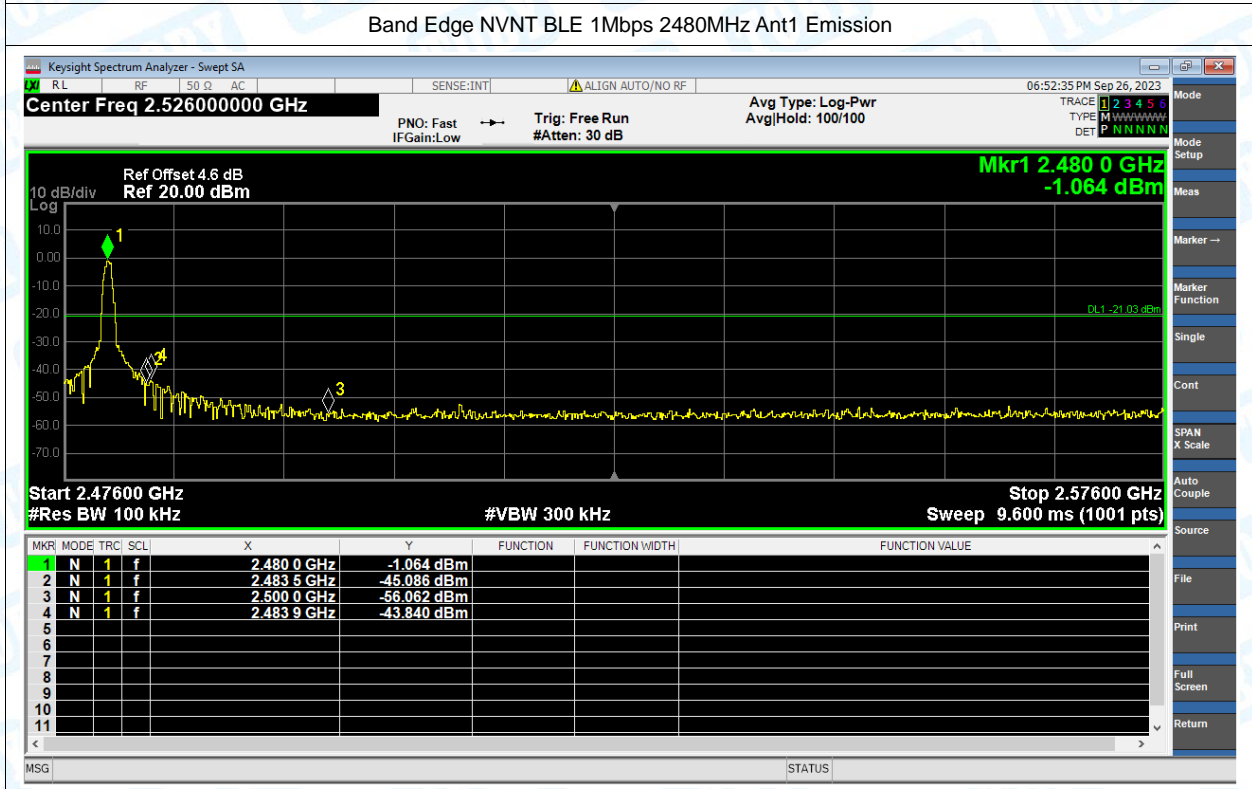
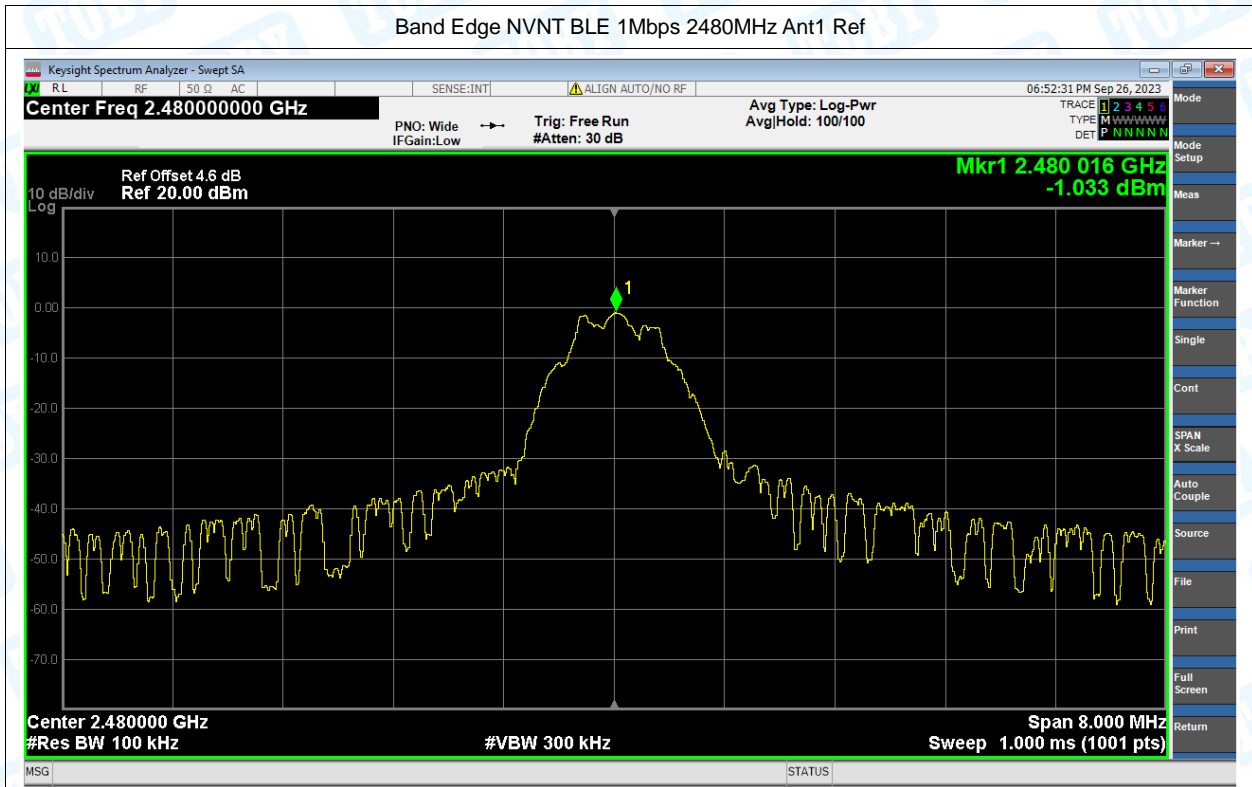
Test Graphs

Band Edge NVNT BLE 1Mbps 2402MHz Ant1 Ref



Band Edge NVNT BLE 1Mbps 2402MHz Ant1 Emission



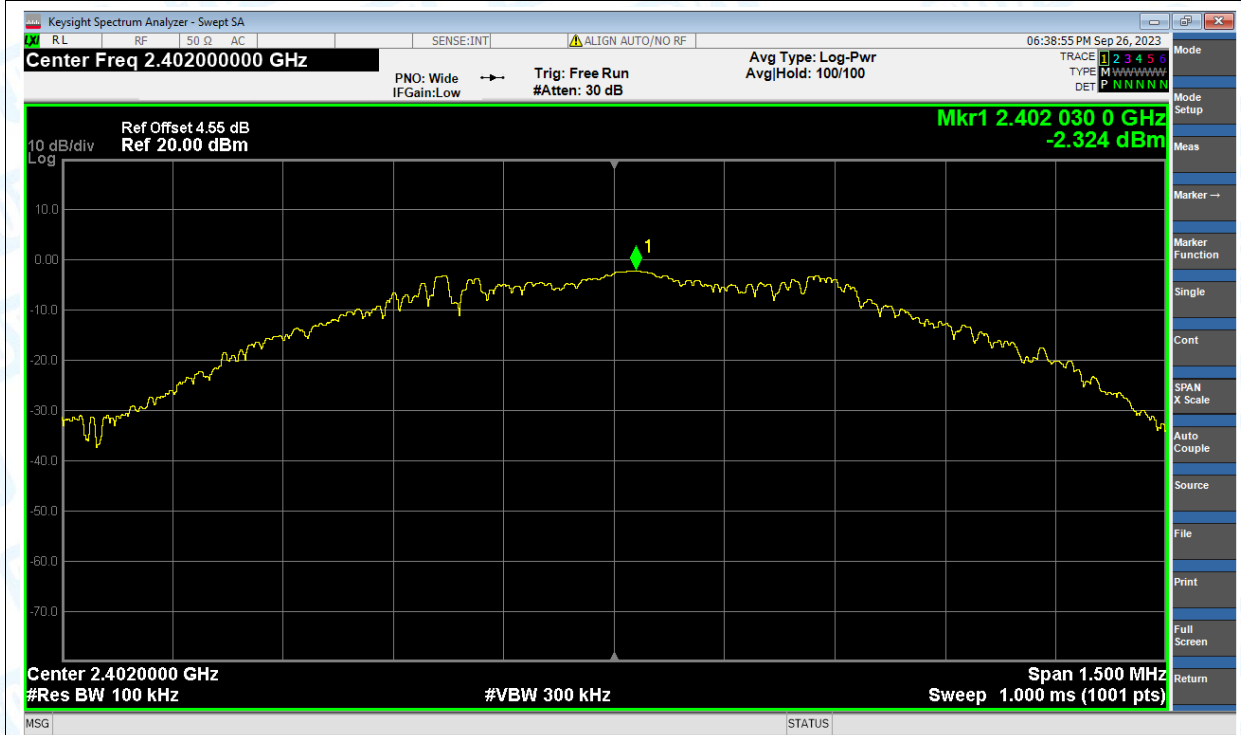


7. Conducted RF Spurious Emission

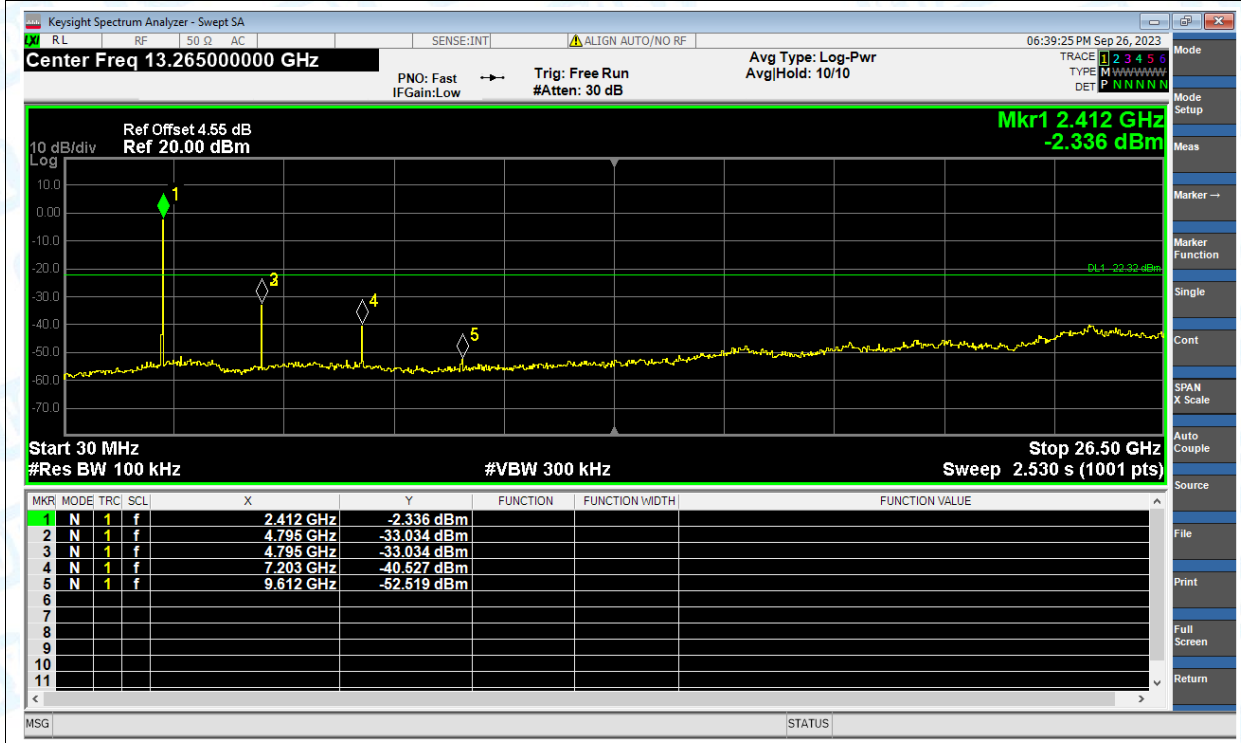
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1Mbps	2402	Ant1	-30.71	-20	Pass
NVNT	BLE 1Mbps	2440	Ant1	-28.45	-20	Pass
NVNT	BLE 1Mbps	2480	Ant1	-28.84	-20	Pass

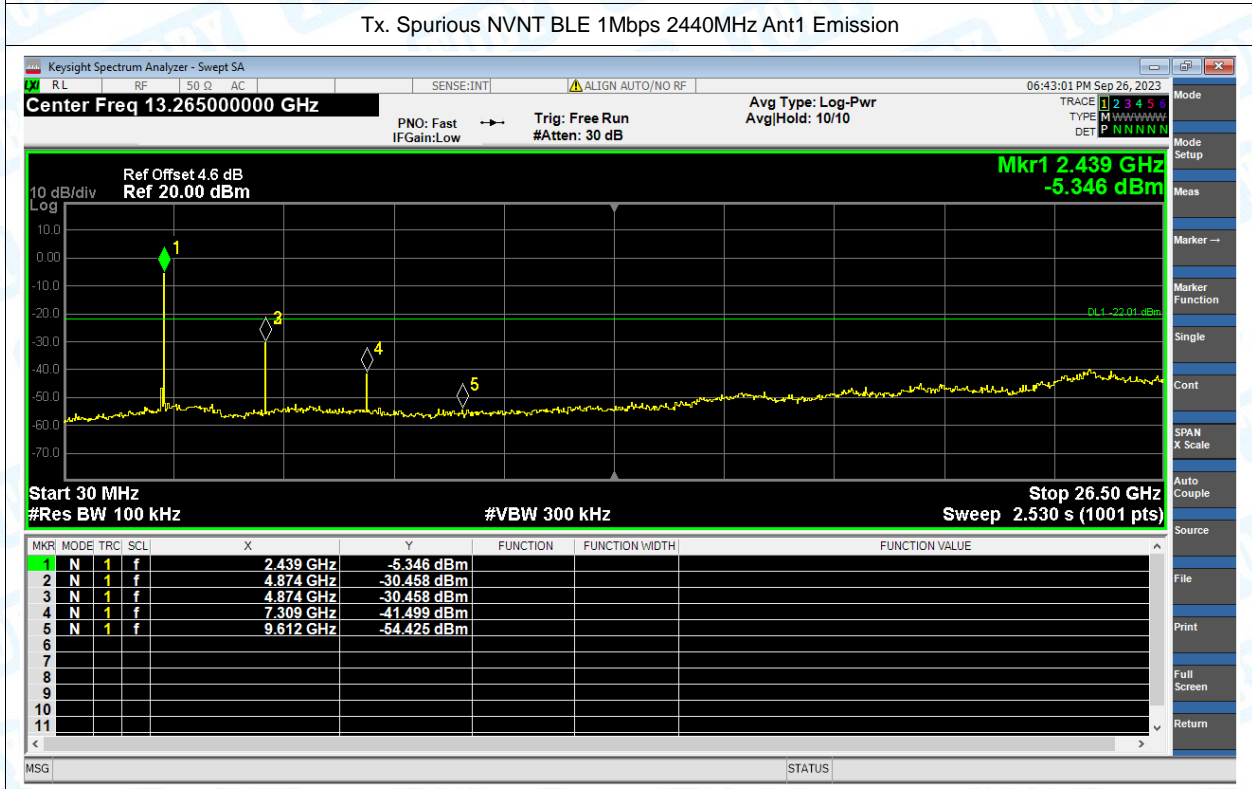
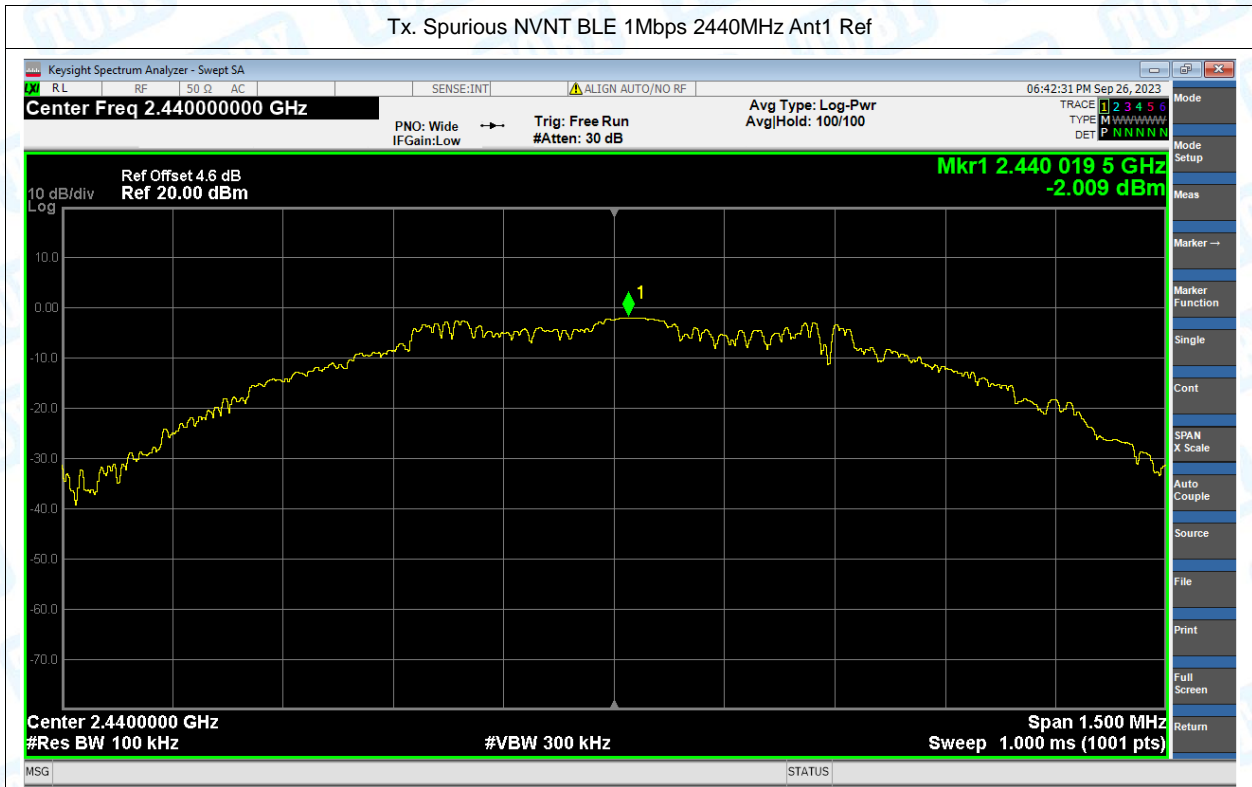
Test Graphs

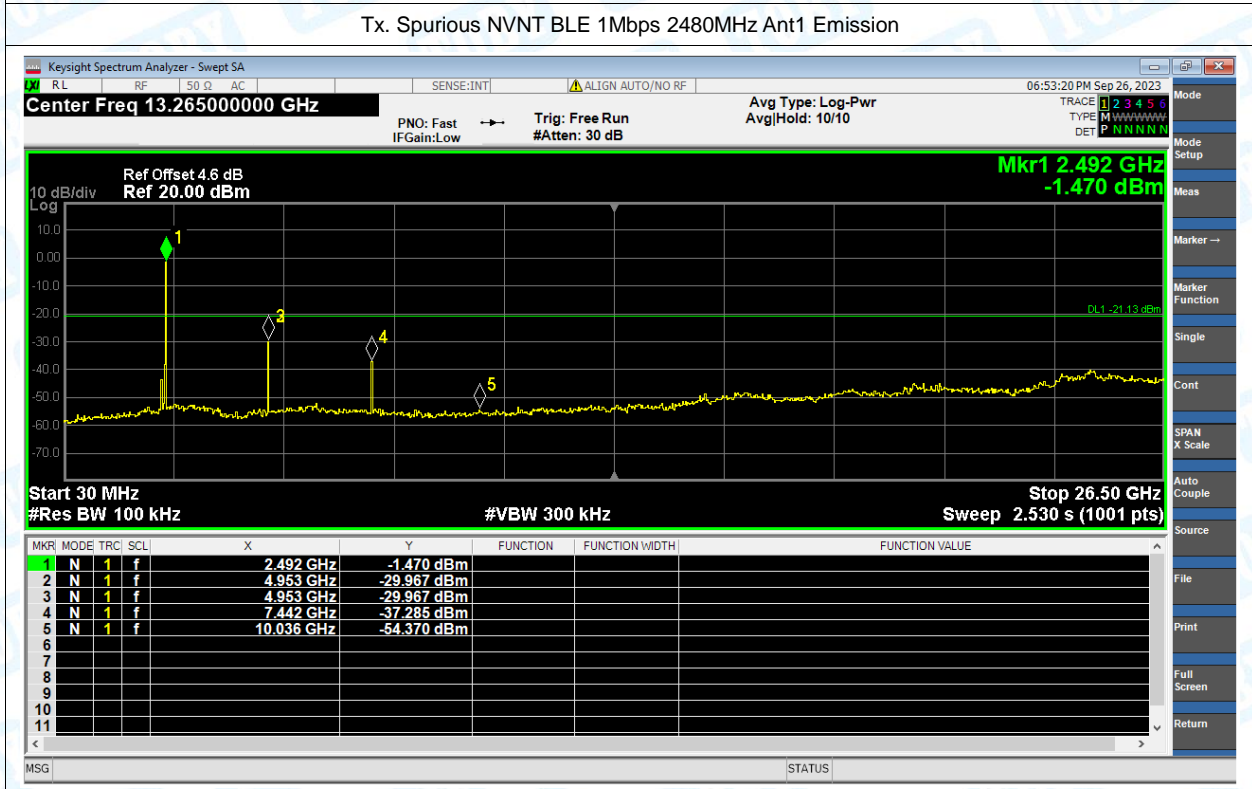
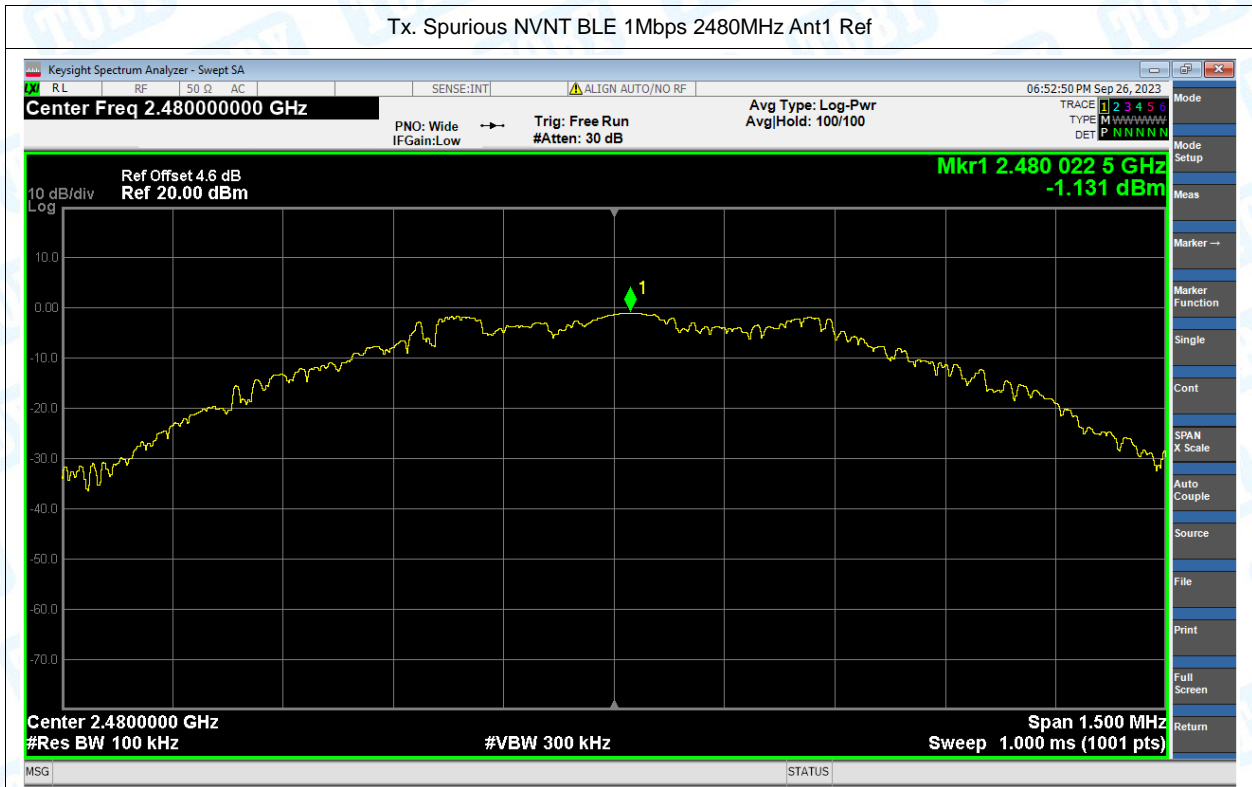
Tx. Spurious NVNT BLE 1Mbps 2402MHz Ant1 Ref



Tx. Spurious NVNT BLE 1Mbps 2402MHz Ant1 Emission





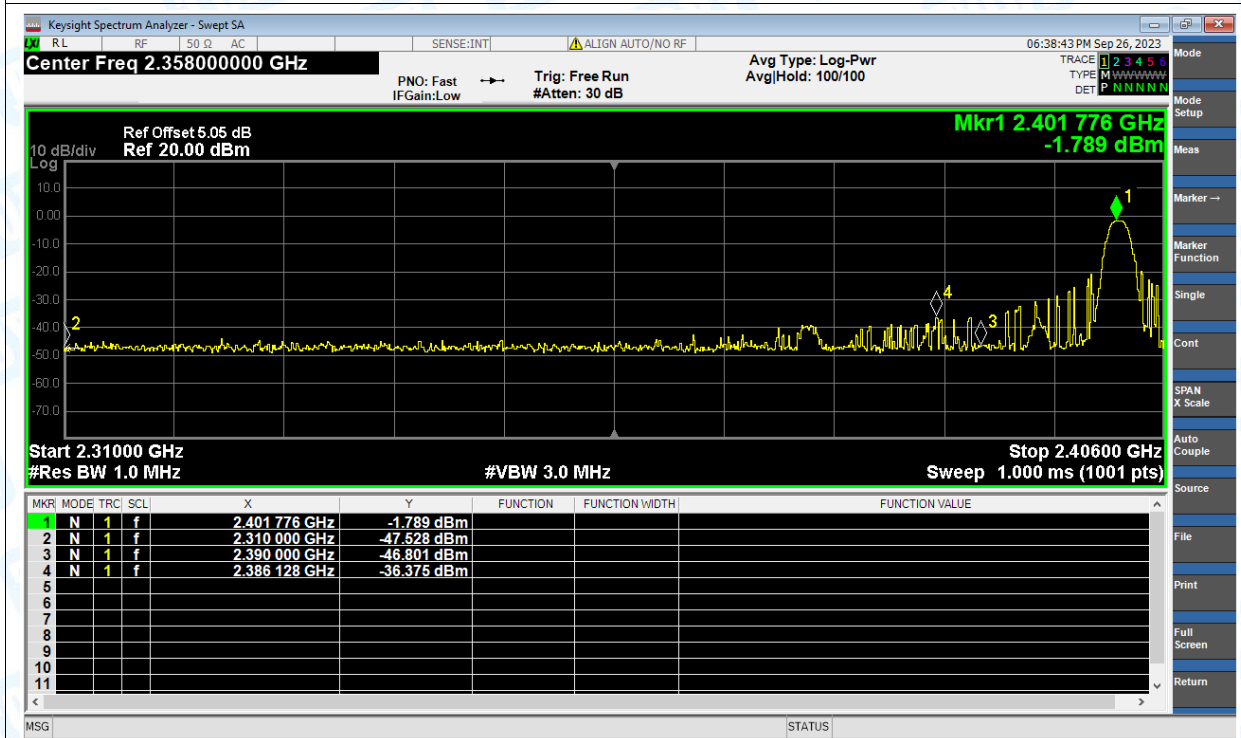


8. Restrict Band

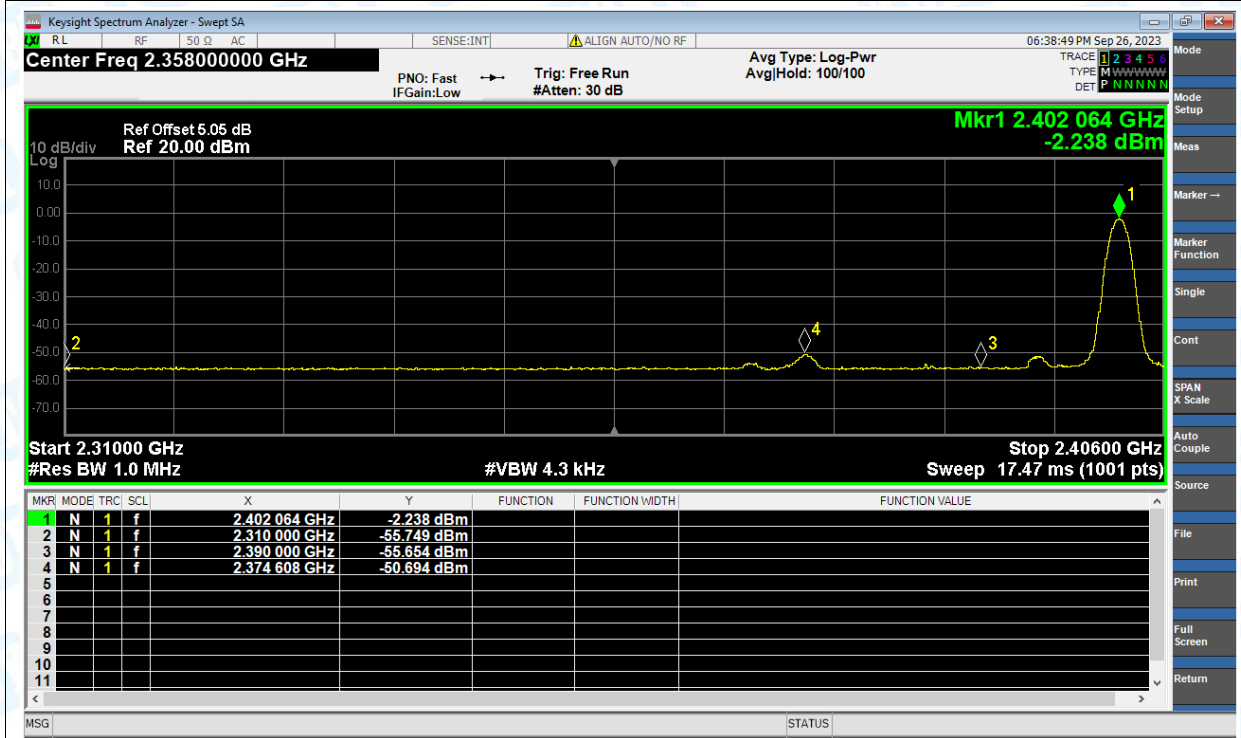
Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	BLE 1Mbps	2402	Ant1	2310	-47.53	2	49.73	Peak	74	Pass
NVNT	BLE 1Mbps	2402	Ant1	2310	-55.75	2	41.51	Average	54	Pass
NVNT	BLE 1Mbps	2402	Ant1	2386.128	-36.37	2	60.89	Peak	74	Pass
NVNT	BLE 1Mbps	2402	Ant1	2374.608	-50.69	2	46.57	Average	54	Pass
NVNT	BLE 1Mbps	2402	Ant1	2390	-46.5	2	50.76	Peak	74	Pass
NVNT	BLE 1Mbps	2402	Ant1	2390	-55.68	2	41.58	Average	54	Pass
NVNT	BLE 1Mbps	2480	Ant1	2483.5	-45.71	2	51.55	Peak	74	Pass
NVNT	BLE 1Mbps	2480	Ant1	2483.5	-54.01	2	43.25	Average	54	Pass
NVNT	BLE 1Mbps	2480	Ant1	2483.656	-24.25	2	73.01	Peak	74	Pass
NVNT	BLE 1Mbps	2480	Ant1	2483.56	-53.59	2	43.67	Average	54	Pass
NVNT	BLE 1Mbps	2480	Ant1	2500	-48.31	2	48.95	Peak	74	Pass
NVNT	BLE 1Mbps	2480	Ant1	2500	-55.67	2	41.59	Average	54	Pass

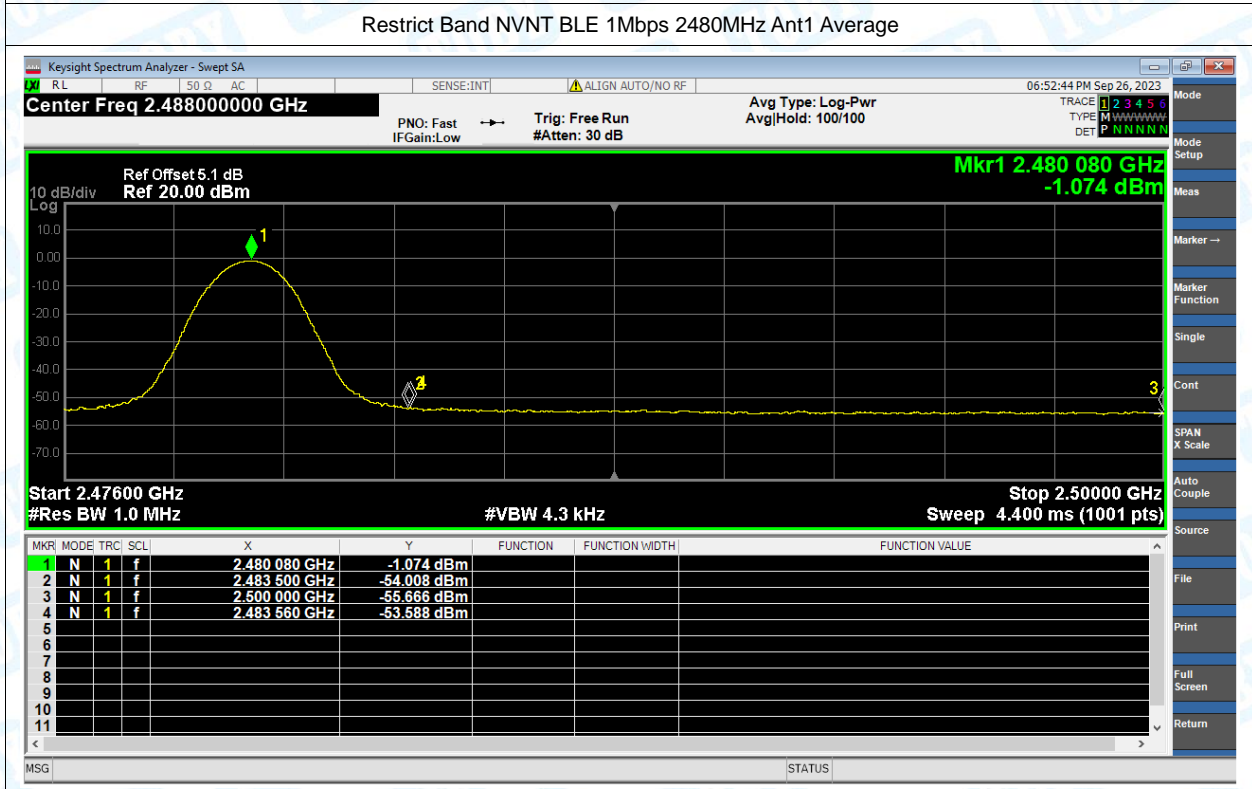
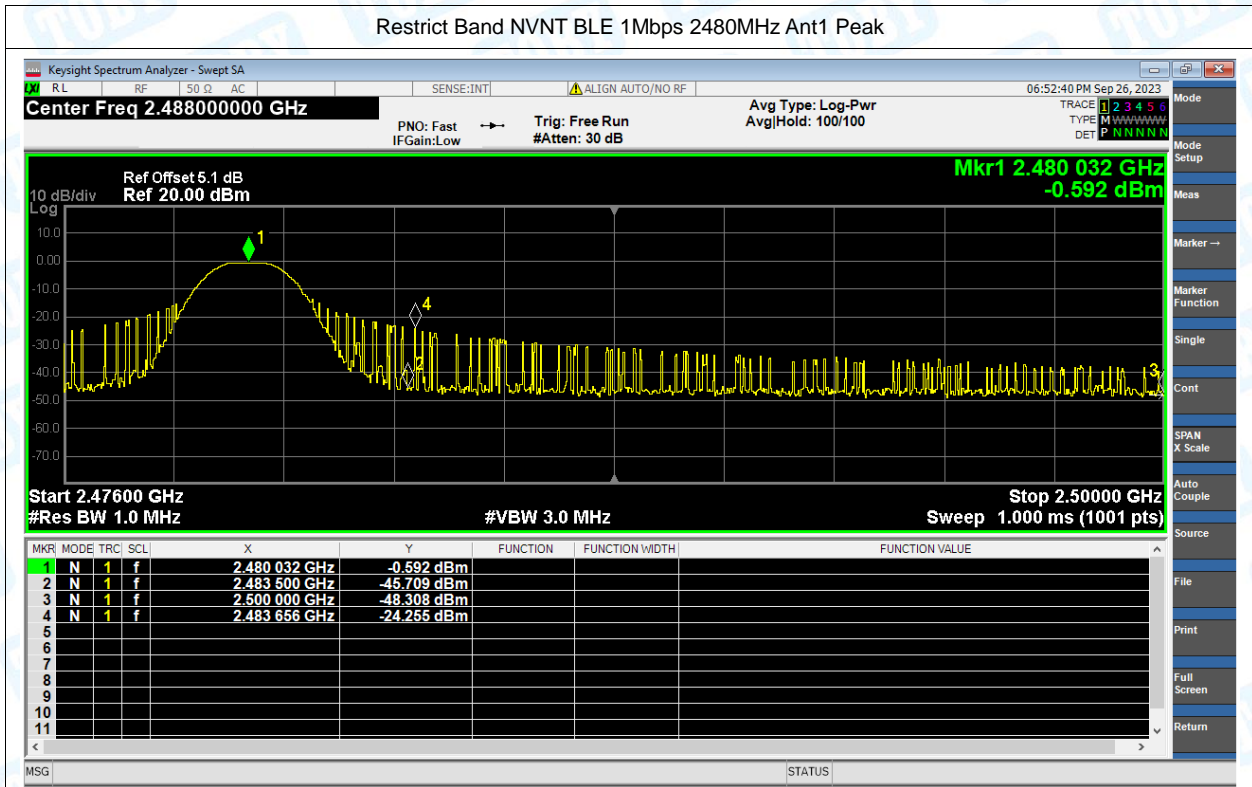
Test Graphs

Restrict Band NVNT BLE 1Mbps 2402MHz Ant1 Peak



Restrict Band NVNT BLE 1Mbps 2402MHz Ant1 Average





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