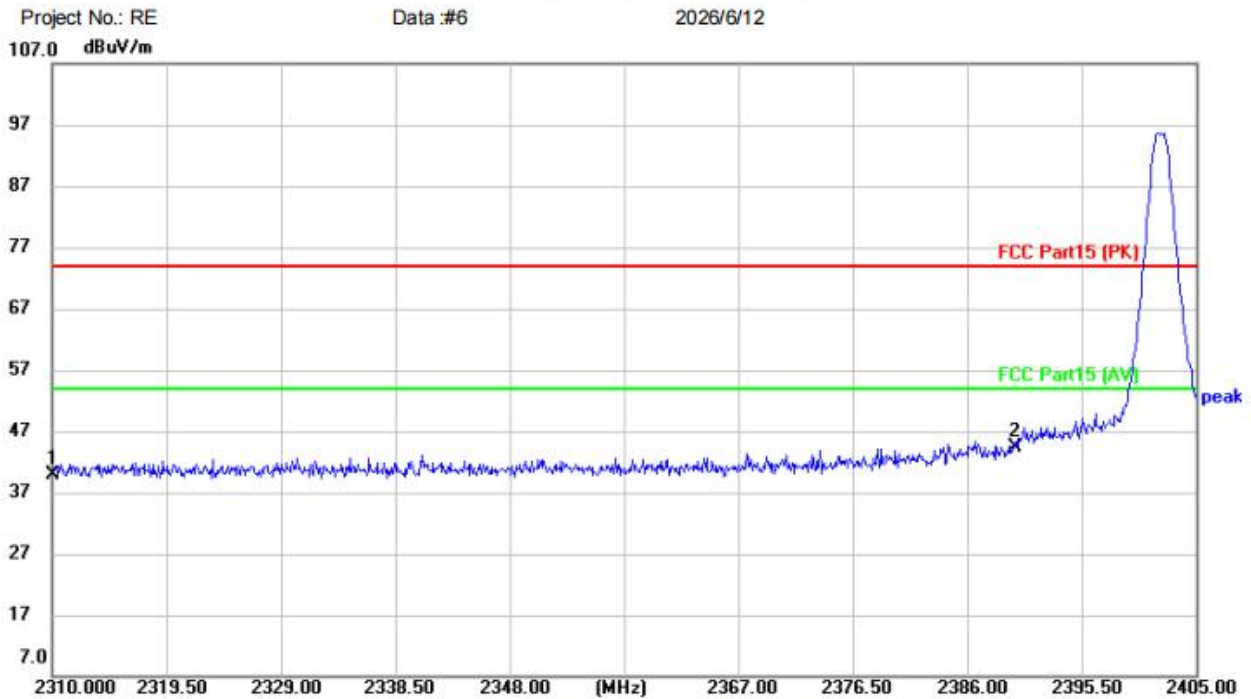


[Test mode:TX low channel]; [Polarity: Vertical] ;[Power:AC120V/60Hz]

Radiated Emission Measurement



Site Polarization: **Vertical** Temperature: (C)

Limit: FCC Part15 (PK) Power: Humidity: %RH

EUT: Smart LED Flush Mount

M/N: 66000164

Mode: BLE-2402

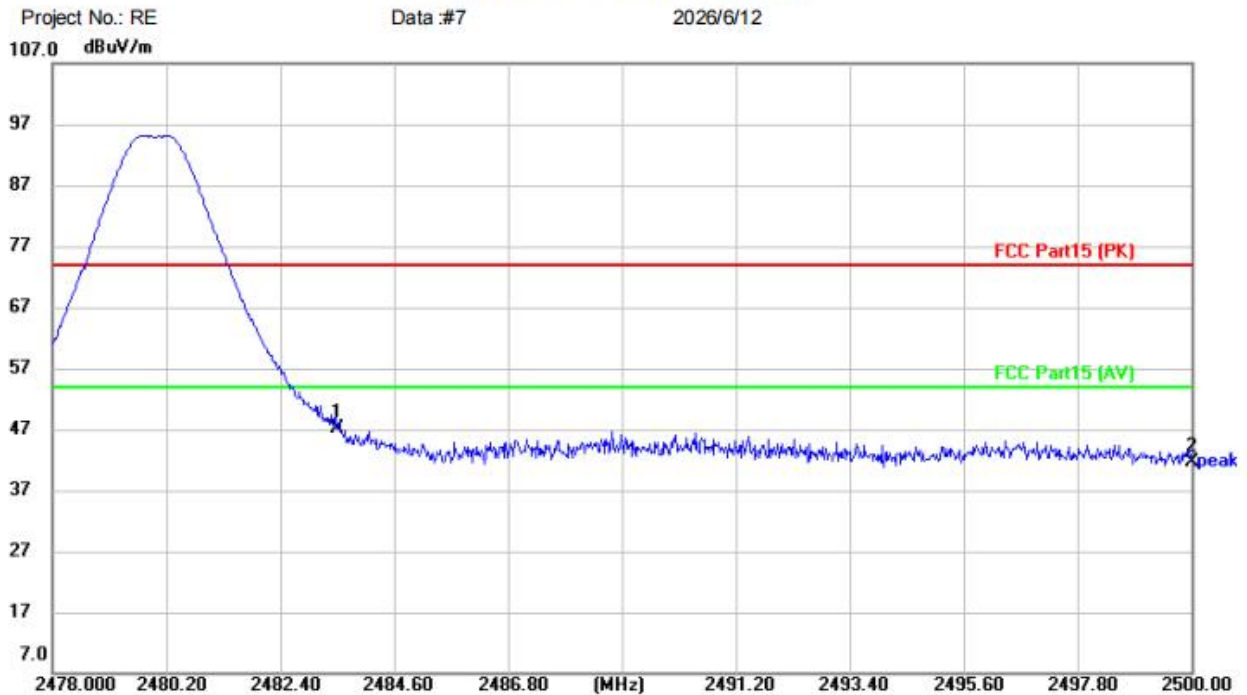
Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2310.000	49.40	-9.51	39.89	74.00	-34.11	peak	
2	*	2390.000	53.56	-9.19	44.37	74.00	-29.63	peak	

Test Result: Pass

[Test mode: TX High channel]; [Polarity: Horizontal] ;[Power:AC120V/60Hz]

Radiated Emission Measurement



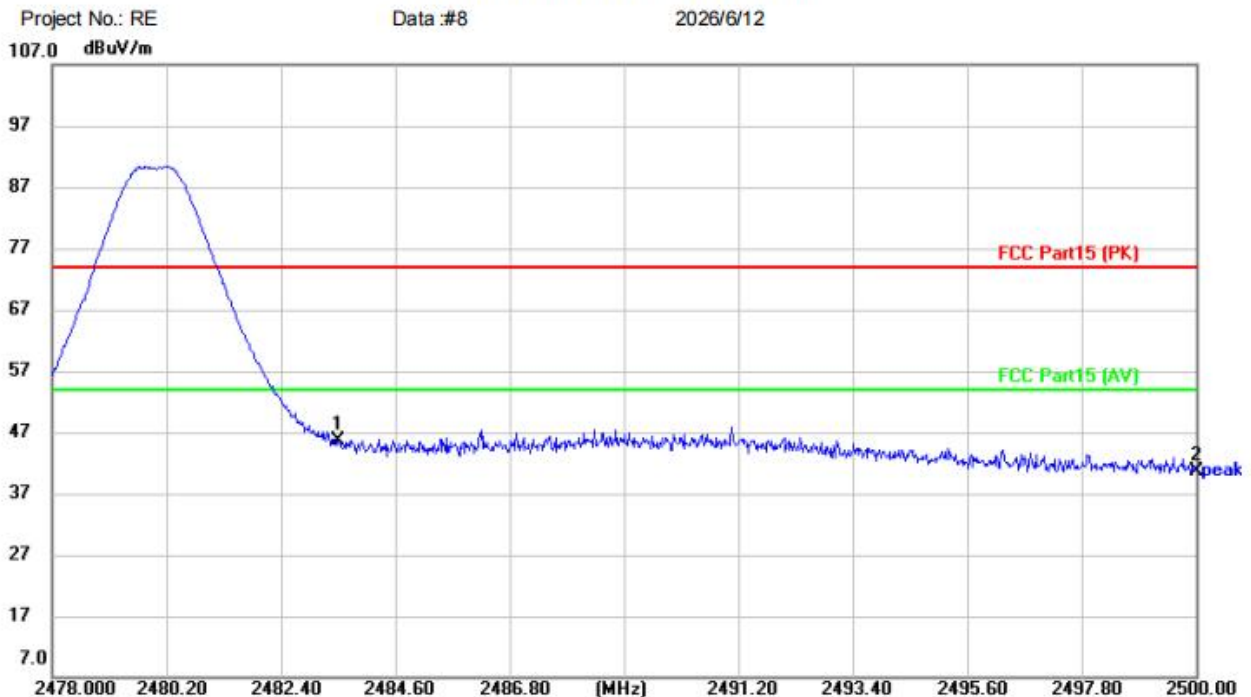
Site Polarization: **Horizontal** Temperature: (C)
Limit: FCC Part15 (PK) Power: Humidity: %RH
EUT: Smart LED Flush Mount
M/N: 66000164
Mode: BLE-2480
Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	2483.500	56.34	-9.14	47.20	74.00	-26.80	peak	
2		2500.000	50.76	-9.11	41.65	74.00	-32.35	peak	

Test Result: Pass

[Test mode:TX High channel]; [Polarity: Vertical] ;[Power:AC120V/60Hz]

Radiated Emission Measurement



Site Polarization: **Vertical** Temperature: (C)

Limit: FCC Part15 (PK) Power: Humidity: %RH

EUT: Smart LED Flush Mount

M/N: 66000164

Mode: BLE-2480

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2483.500	54.76	-9.14	45.62	74.00	-28.38	peak	
2		2500.000	49.84	-9.11	40.73	74.00	-33.27	peak	

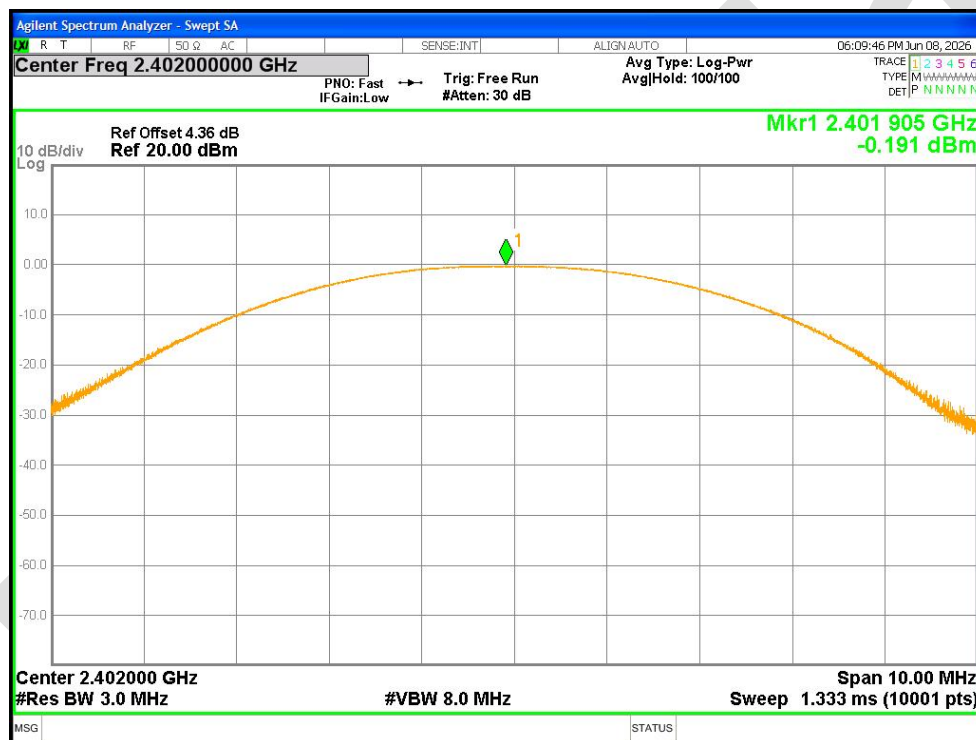
Test Result: Pass

7 Appendix A

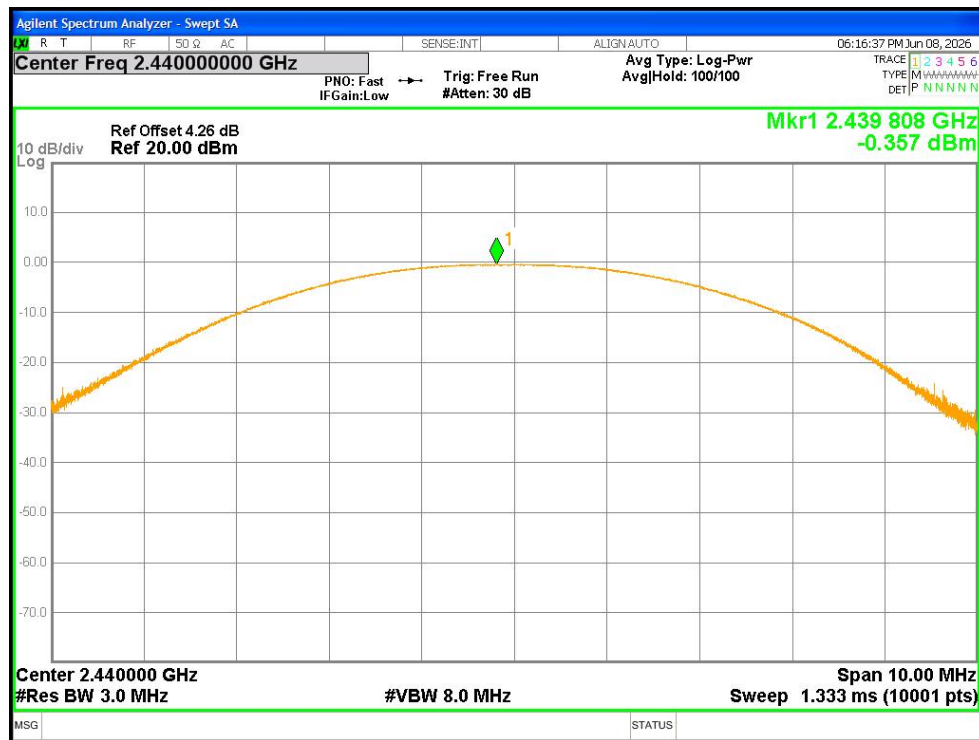
7.1 Maximum PK Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	-0.191	30	Pass
NVNT	BLE 1M	2440	Ant1	-0.357	30	Pass
NVNT	BLE 1M	2480	Ant1	1.251	30	Pass

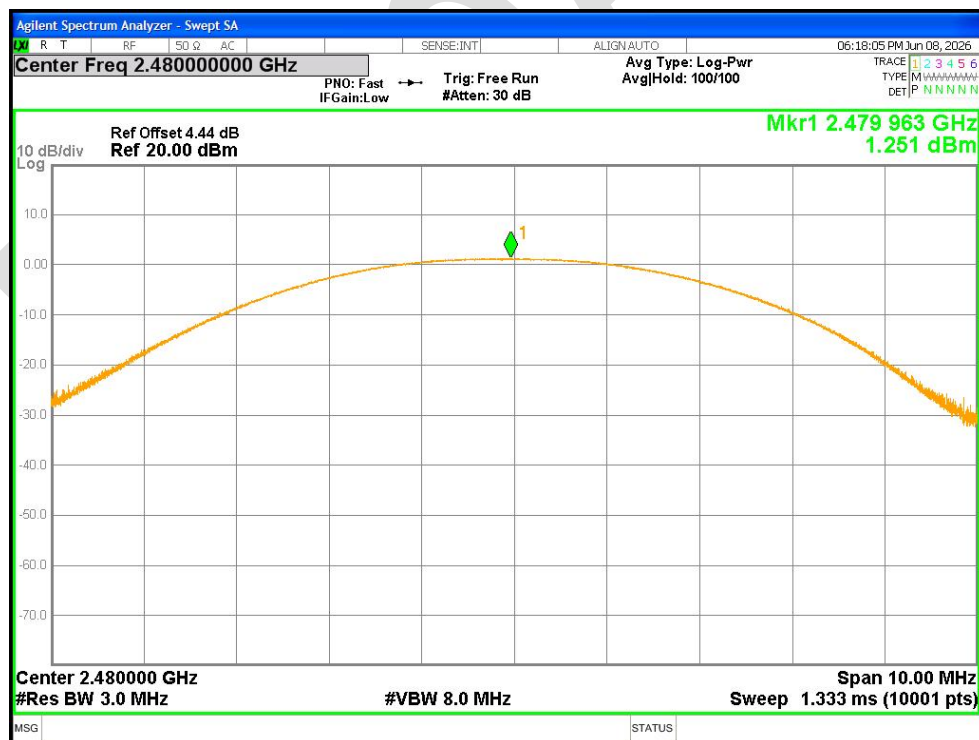
Power NVNT BLE 1M 2402MHz Ant1



Power NVNT BLE 1M 2440MHz Ant1



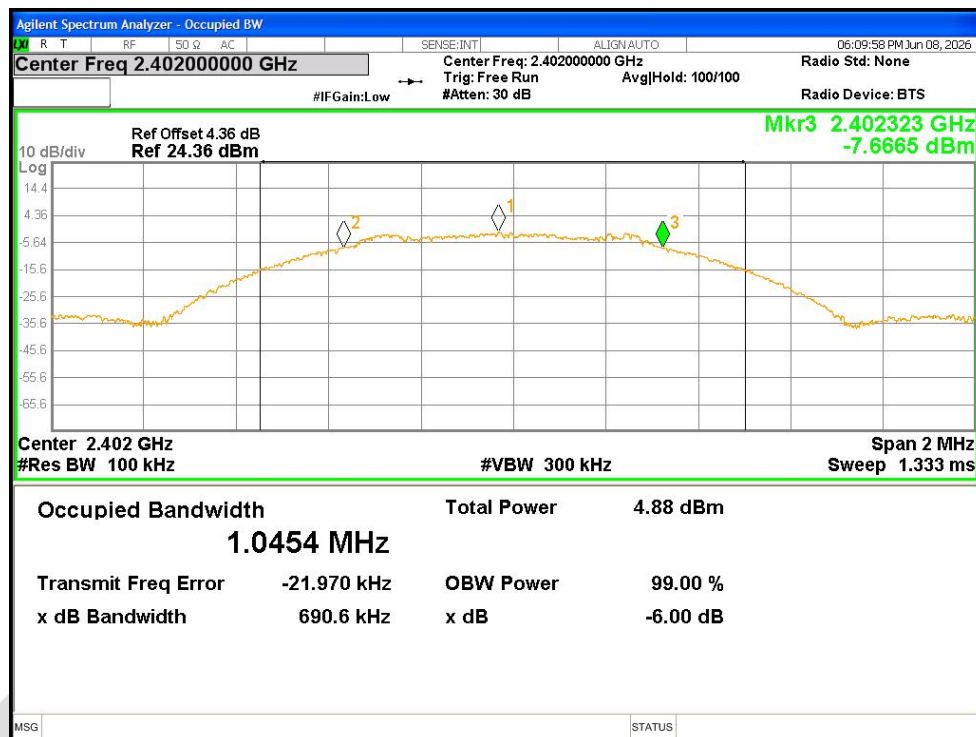
Power NVNT BLE 1M 2480MHz Ant1



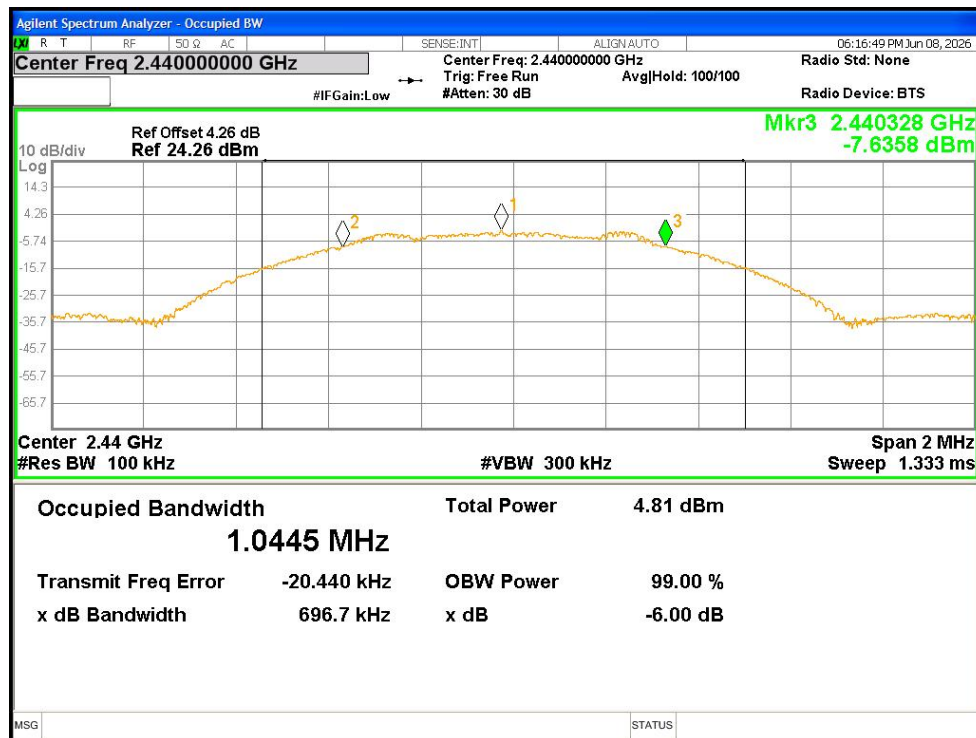
7.2 -6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	Ant1	0.691	0.5	Pass
NVNT	BLE 1M	2440	Ant1	0.697	0.5	Pass
NVNT	BLE 1M	2480	Ant1	0.713	0.5	Pass

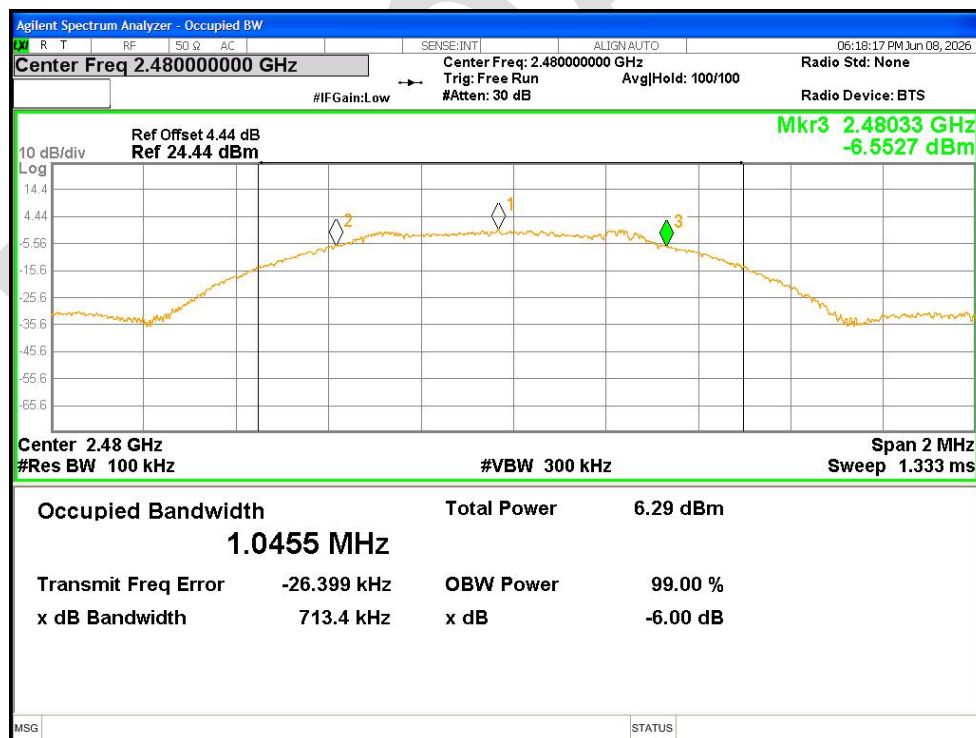
-6dB Bandwidth NVNT BLE 1M 2402MHz Ant1



-6dB Bandwidth NVNT BLE 1M 2440MHz Ant1



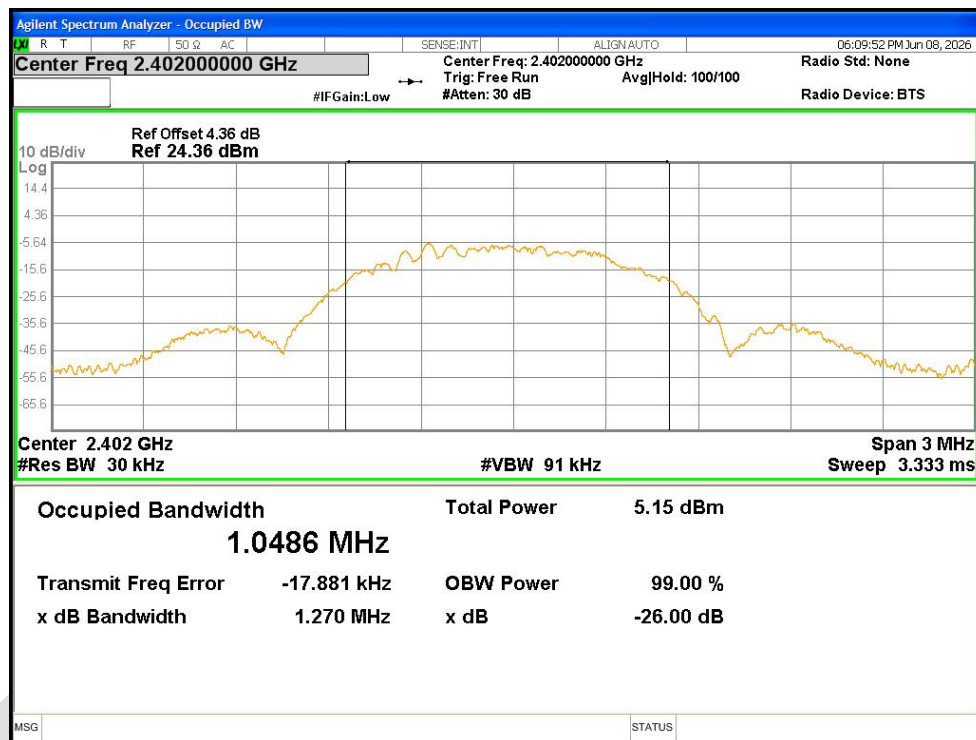
-6dB Bandwidth NVNT BLE 1M 2480MHz Ant1



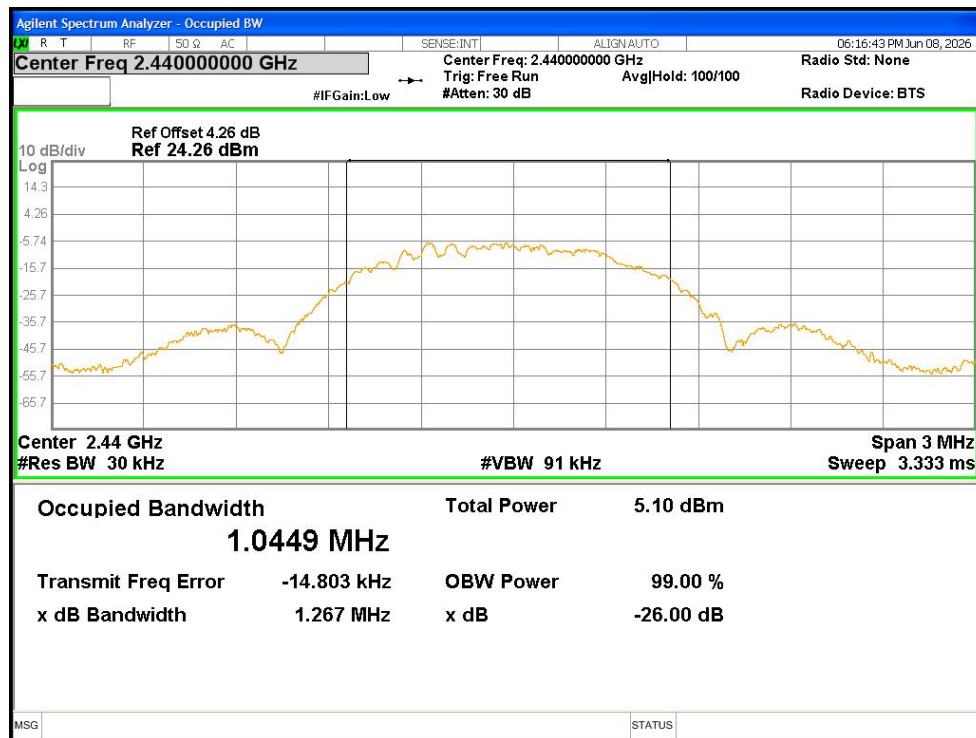
7.3 Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	BLE 1M	2402	Ant1	1.0486
NVNT	BLE 1M	2440	Ant1	1.0449
NVNT	BLE 1M	2480	Ant1	1.0403

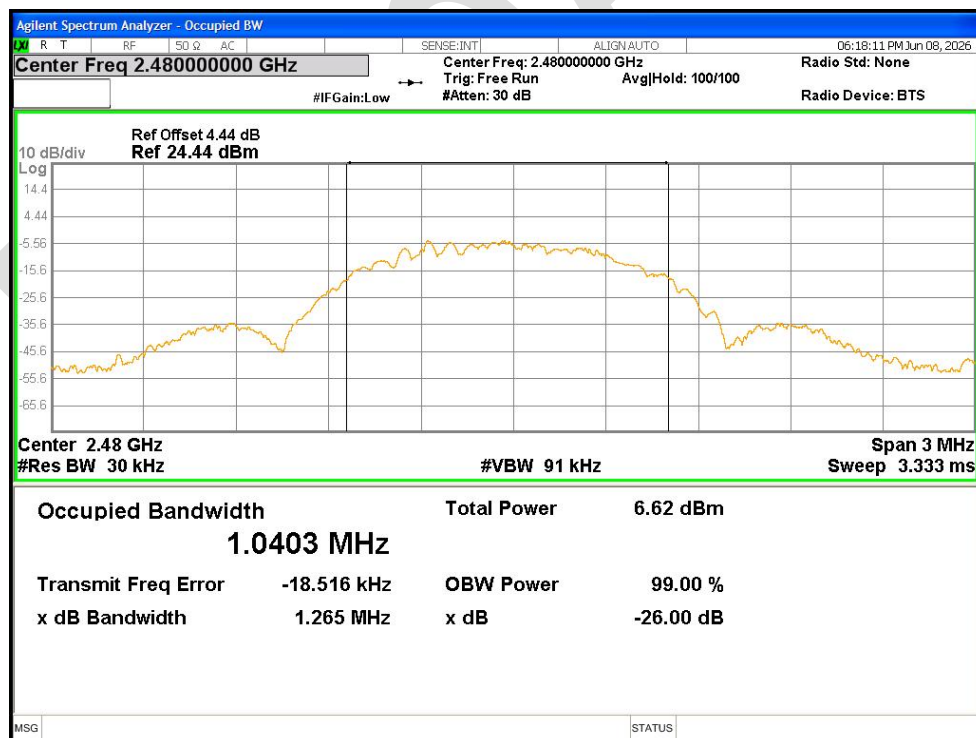
OBW NVNT BLE 1M 2402MHz Ant1



OBW NVNT BLE 1M 2440MHz Ant1



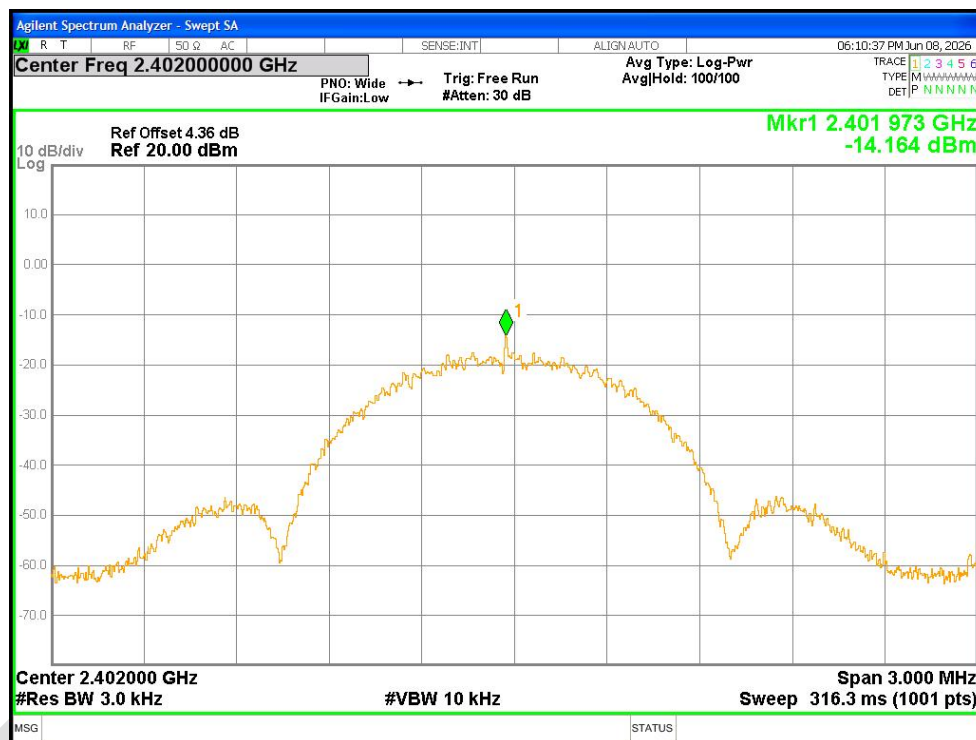
OBW NVNT BLE 1M 2480MHz Ant1



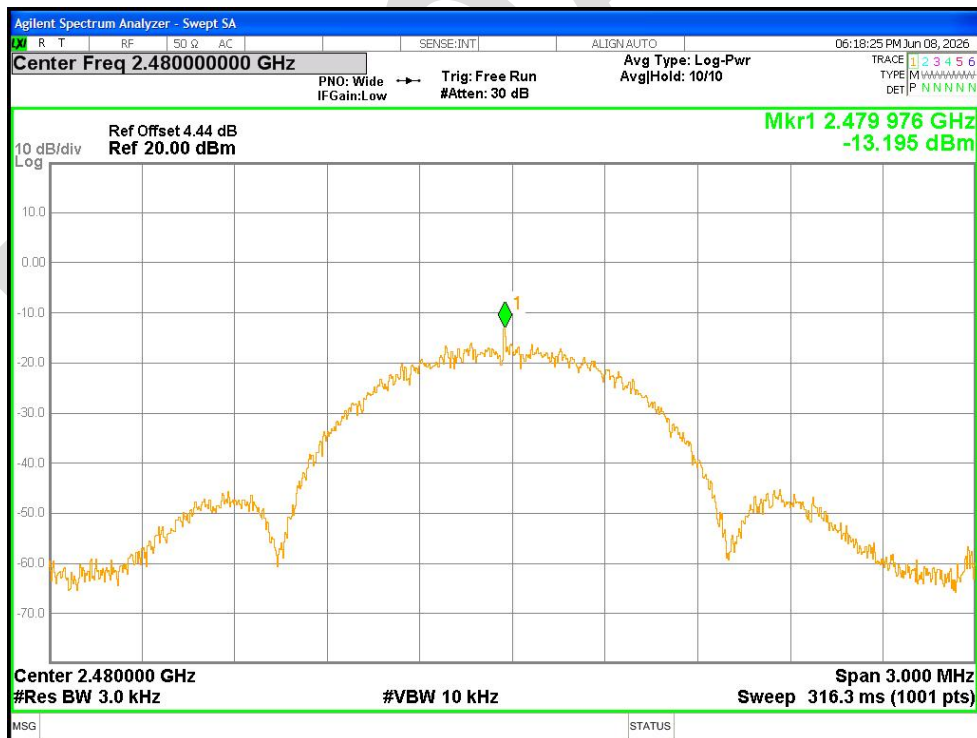
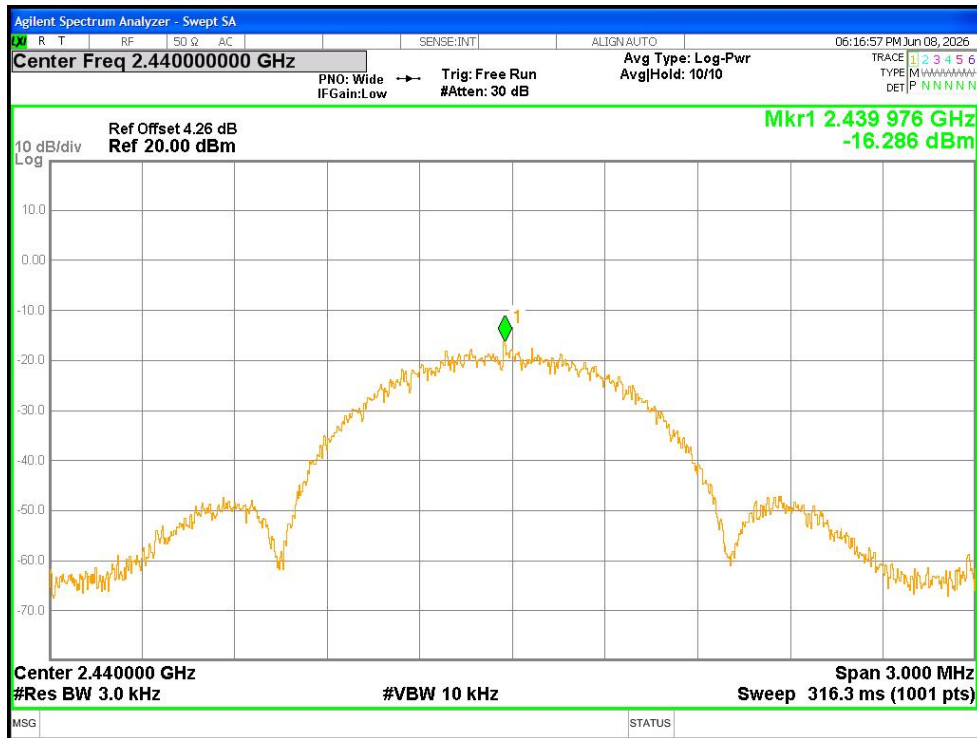
Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Duty Factor (dB)	Total PSD (dBm/3khz)	Limit (dBm/3khz)	Verdict
NVNT	BLE 1M	2402	Ant1	-14.164	0	-14.164	8	Pass
NVNT	BLE 1M	2440	Ant1	-16.286	0	-16.286	8	Pass
NVNT	BLE 1M	2480	Ant1	-13.195	0	-13.195	8	Pass

PSD NVNT BLE 1M 2402MHz Ant1



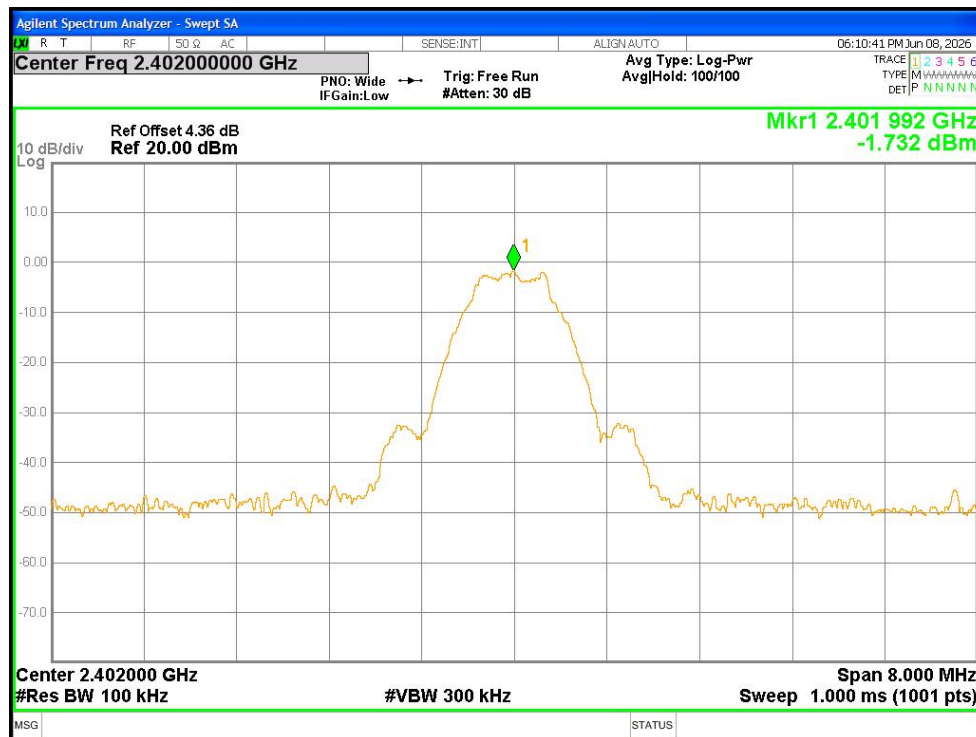
PSD NVNT BLE 1M 2440MHz Ant1



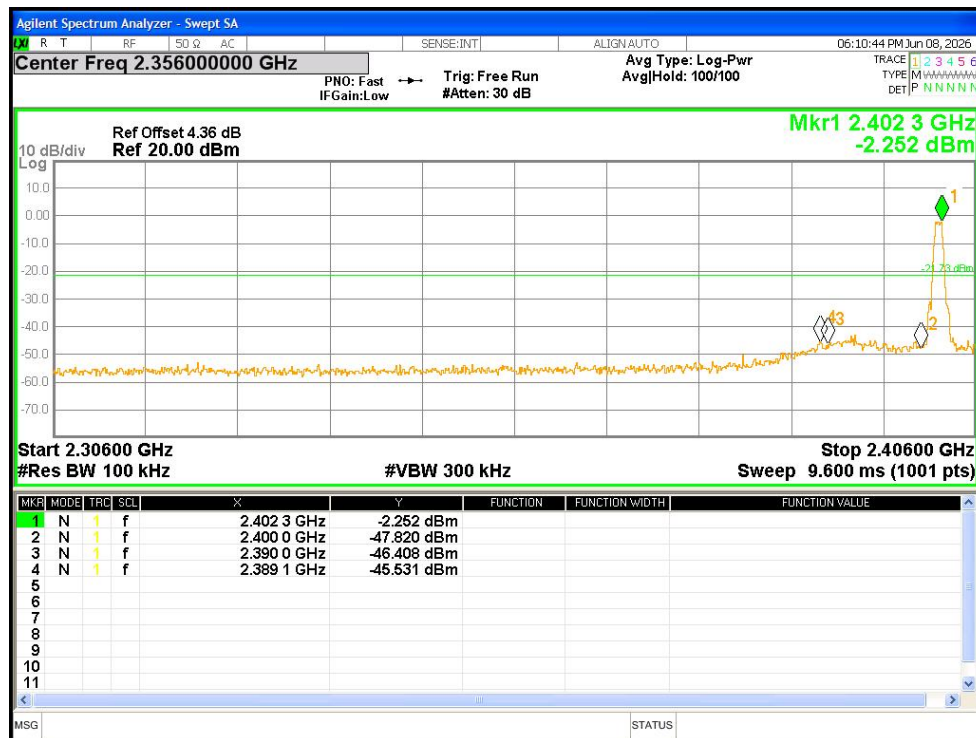
7.4 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-43.8	-20	Pass
NVNT	BLE 1M	2480	Ant1	-44.19	-20	Pass

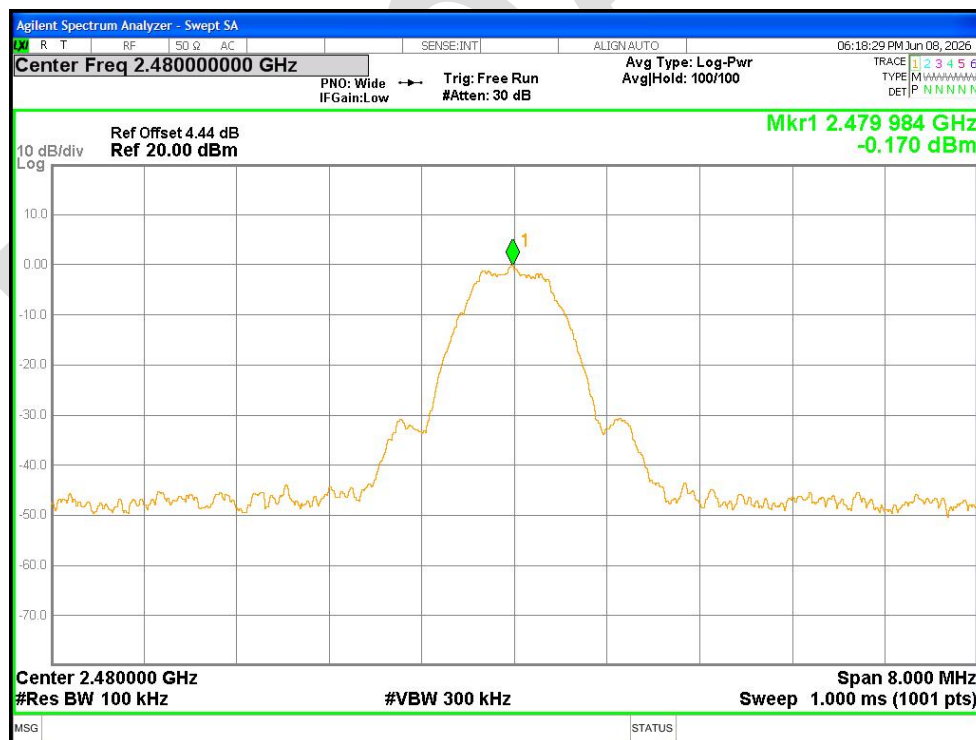
Band Edge NVNT BLE 1M 2402MHz Ant1 Ref



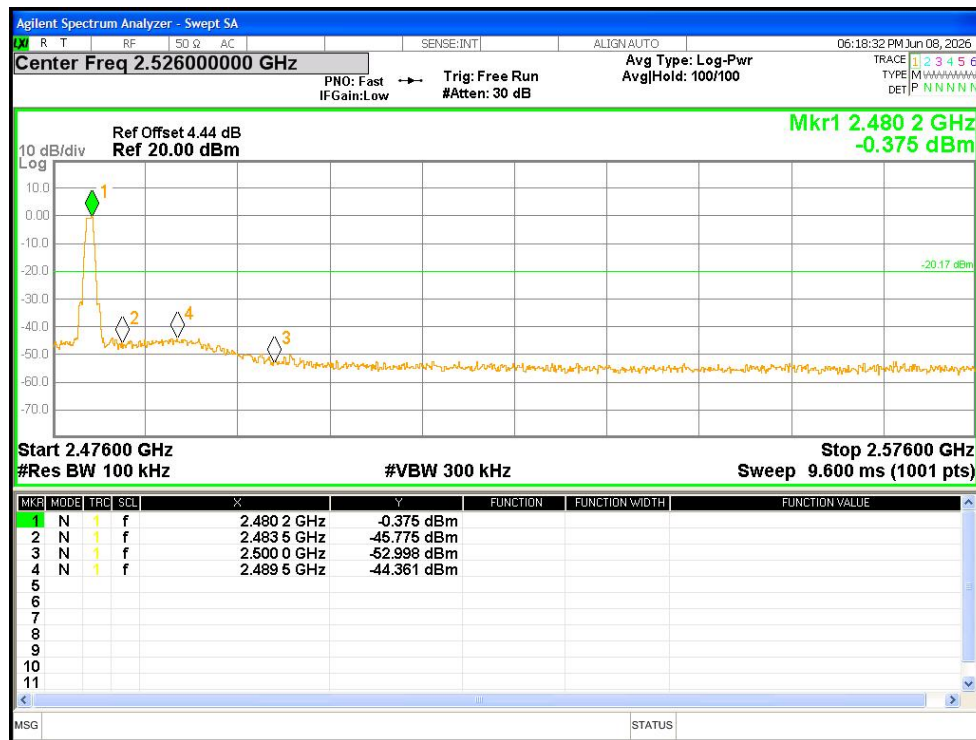
Band Edge NVNT BLE 1M 2402MHz Ant1 Emission



Band Edge NVNT BLE 1M 2480MHz Ant1 Ref



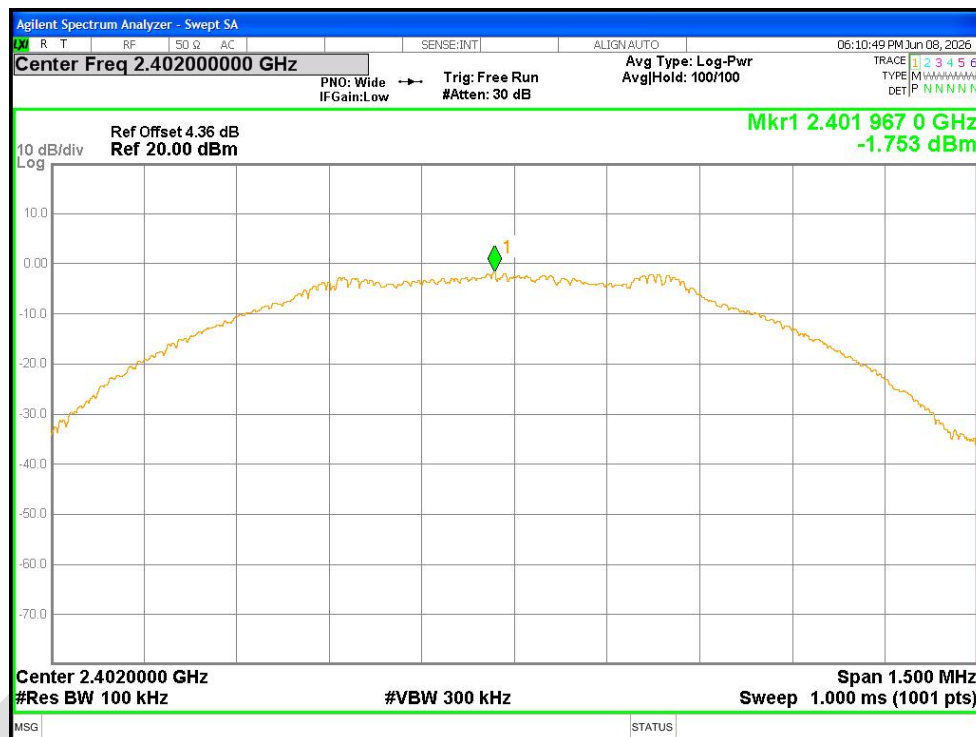
Band Edge NVNT BLE 1M 2480MHz Ant1 Emission



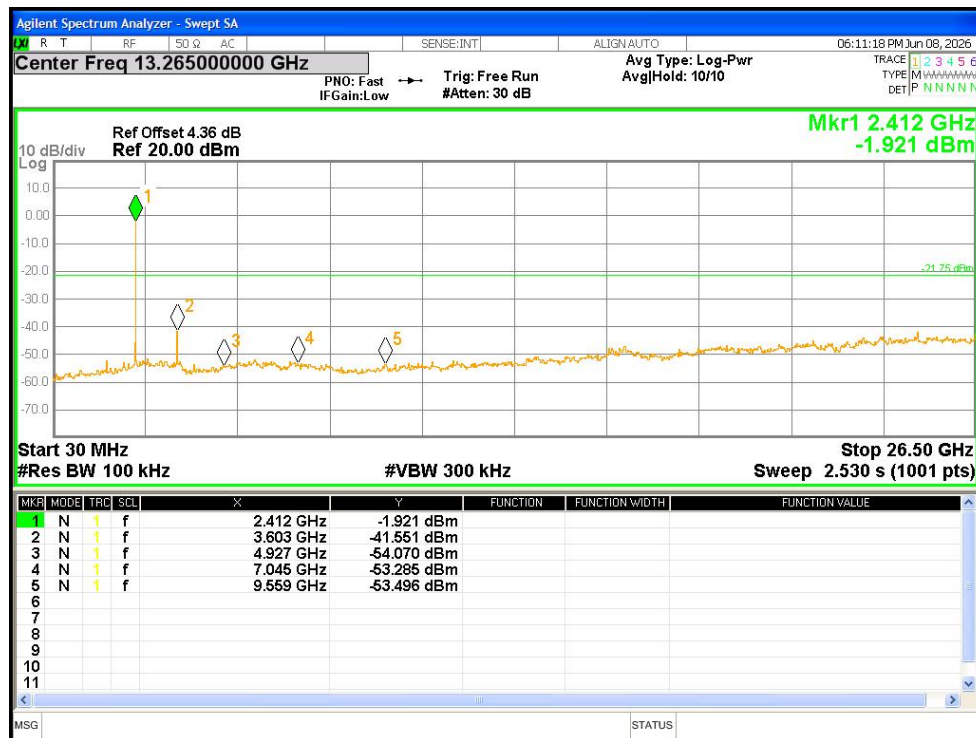
7.5 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-39.8	-20	Pass
NVNT	BLE 1M	2440	Ant1	-41.58	-20	Pass
NVNT	BLE 1M	2480	Ant1	-42.56	-20	Pass

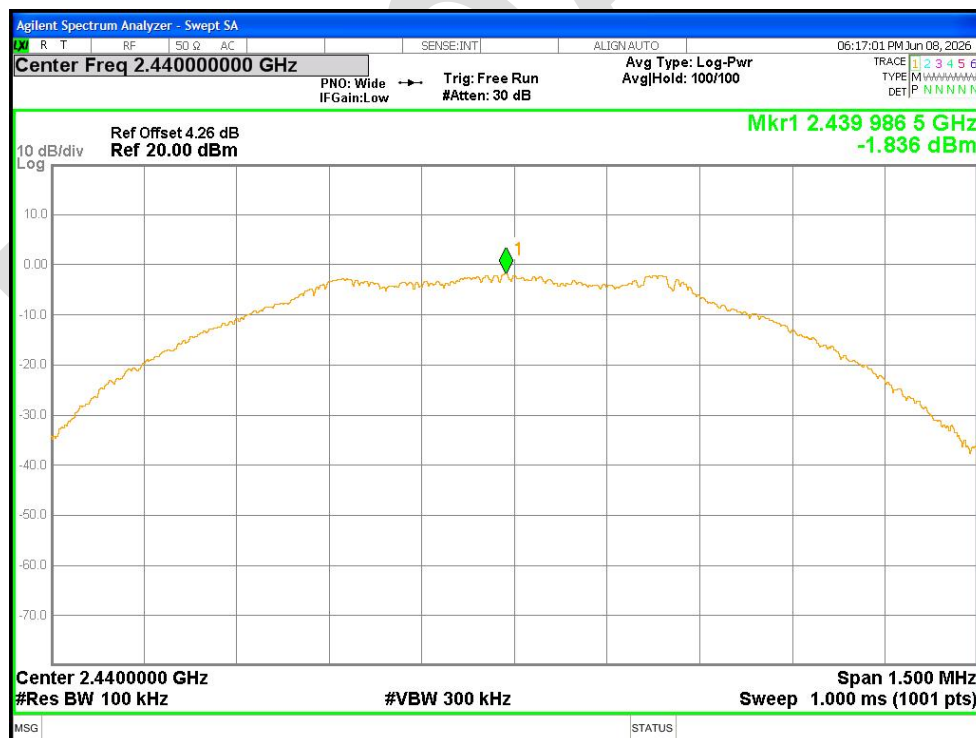
Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Ref



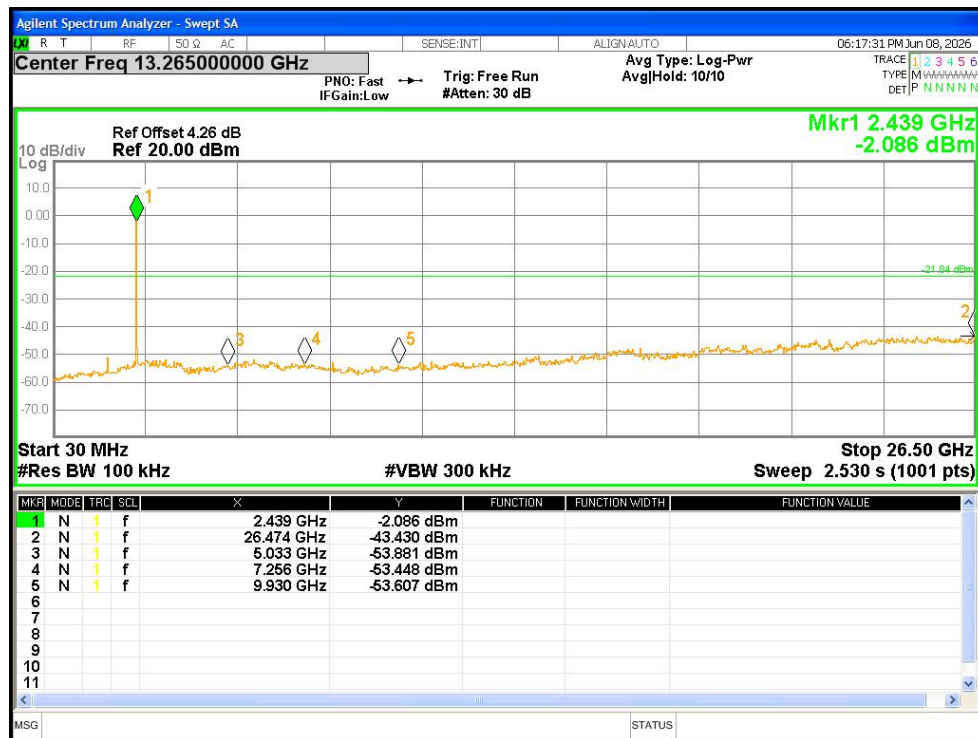
Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Emission



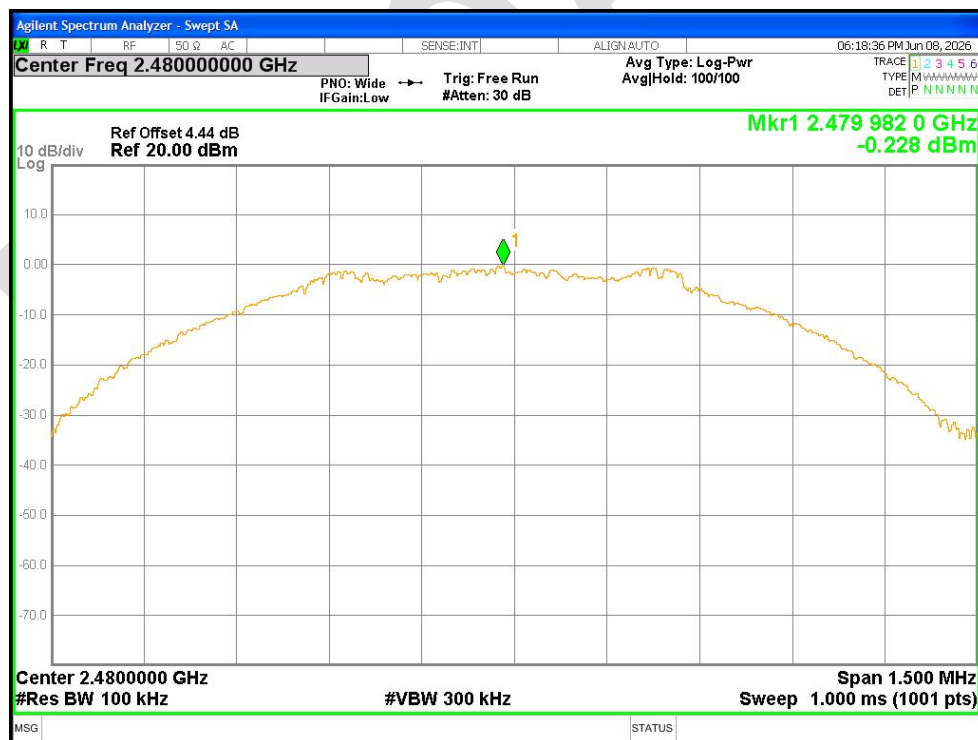
Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Ref



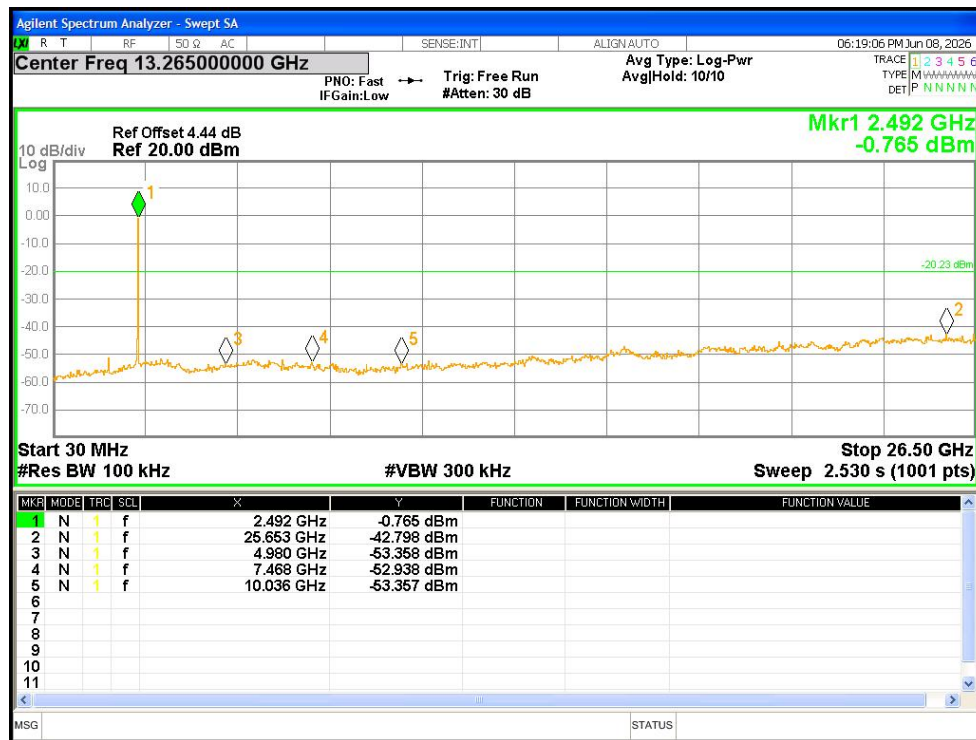
Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Emission



Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Emission

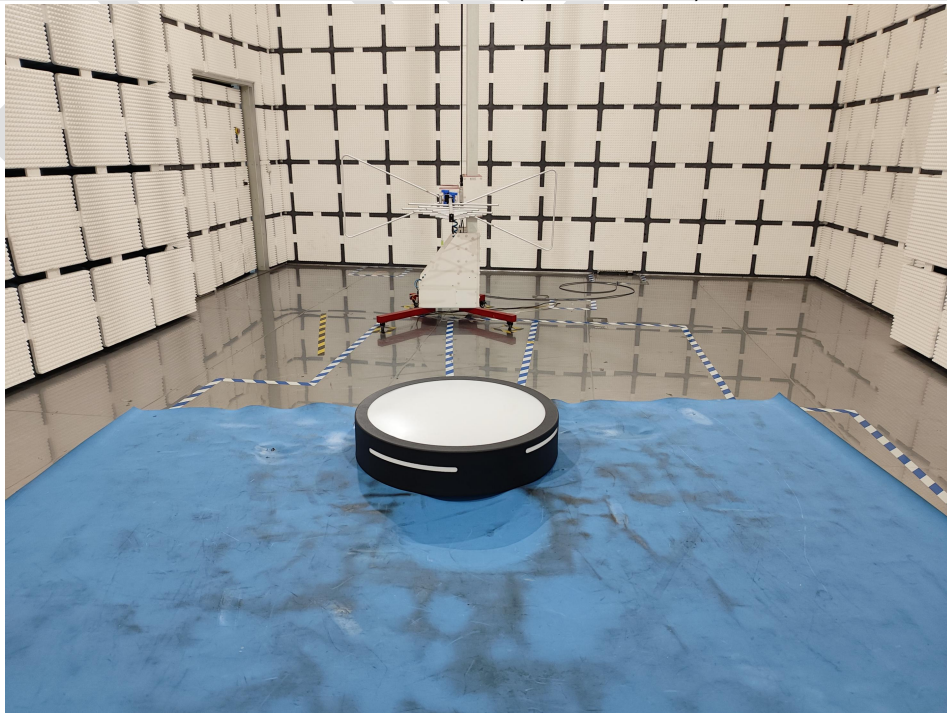


Appendix B: photographs of test setup

Conducted emissions at AC power line (150kHz-30MHz)



Radiated Emissions (30MHz-1GHz)



Radiated Emissions (above 1GHz)



RF TEST

