

Test data attachment A

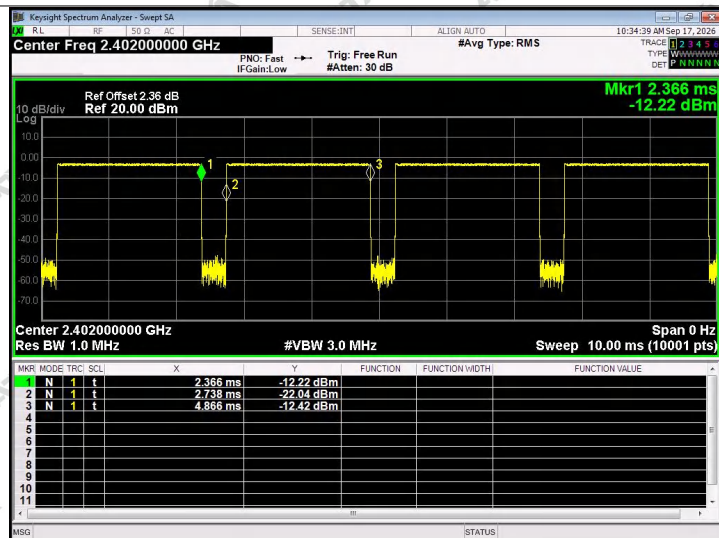
Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	BLE 1M SISO	2402	Ant1	85.12	0.7	0.47
NVNT	BLE 1M SISO	2440	Ant1	85.08	0.7	0.47
NVNT	BLE 1M SISO	2480	Ant1	85.12	0.7	0.47
NVNT	BLE 2M SISO	2402	Ant1	57.12	2.43	0.93
NVNT	BLE 2M SISO	2440	Ant1	57.17	2.43	0.93
NVNT	BLE 2M SISO	2480	Ant1	57.17	2.43	0.93

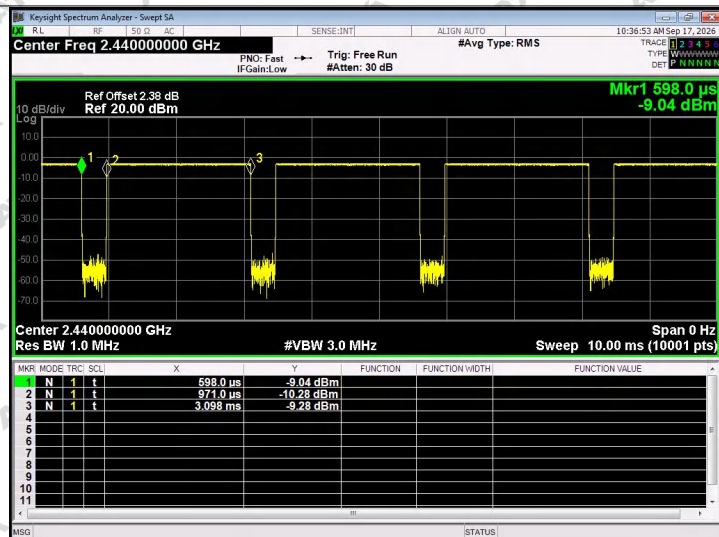


Test Graphs

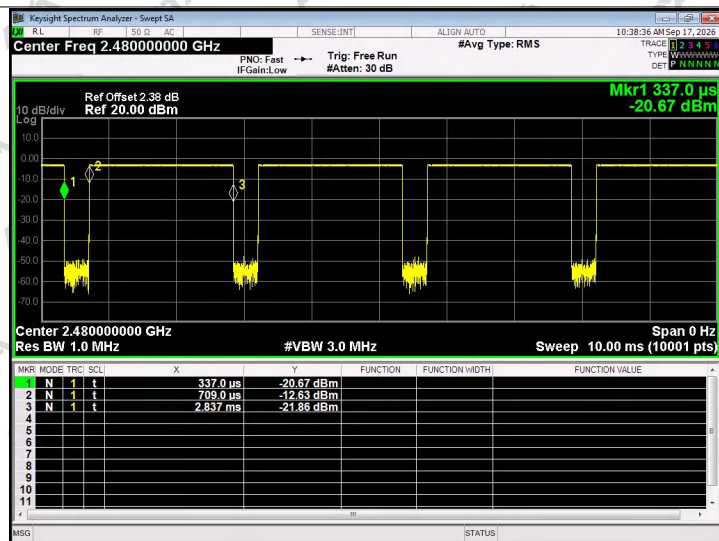
Duty Cycle NVNT BLE 1M 2402MHz Ant1 SISO



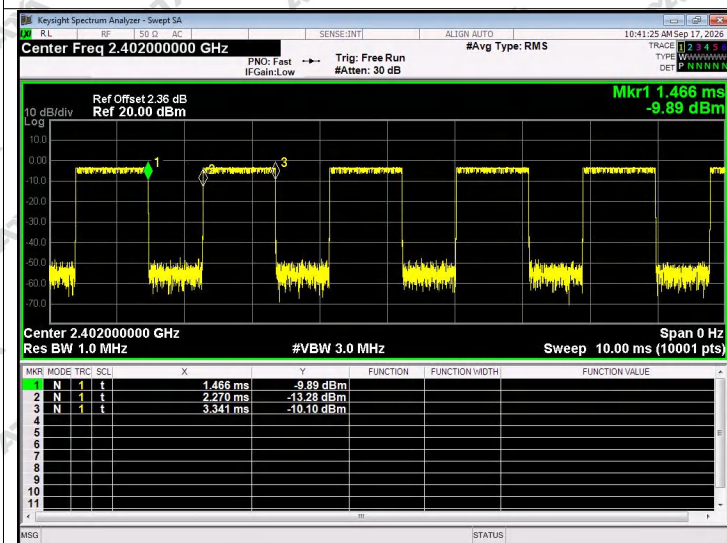
Duty Cycle NVNT BLE 1M 2440MHz Ant1 SISO



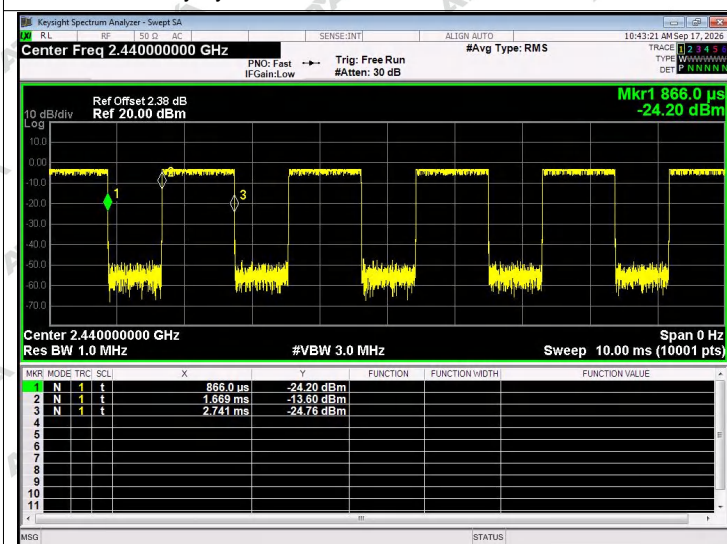
Duty Cycle NVNT BLE 1M 2480MHz Ant1 SISO



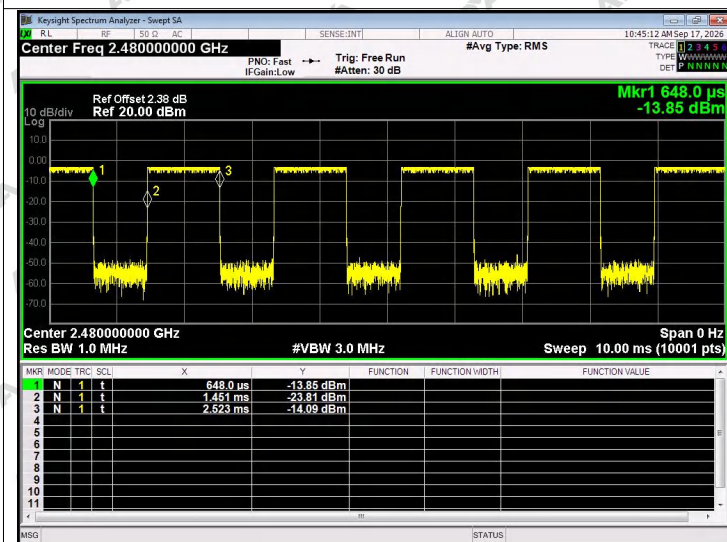
Duty Cycle NVNT BLE 2M 2402MHz Ant1 SISO



Duty Cycle NVNT BLE 2M 2440MHz Ant1 SISO



Duty Cycle NVNT BLE 2M 2480MHz Ant1 SISO

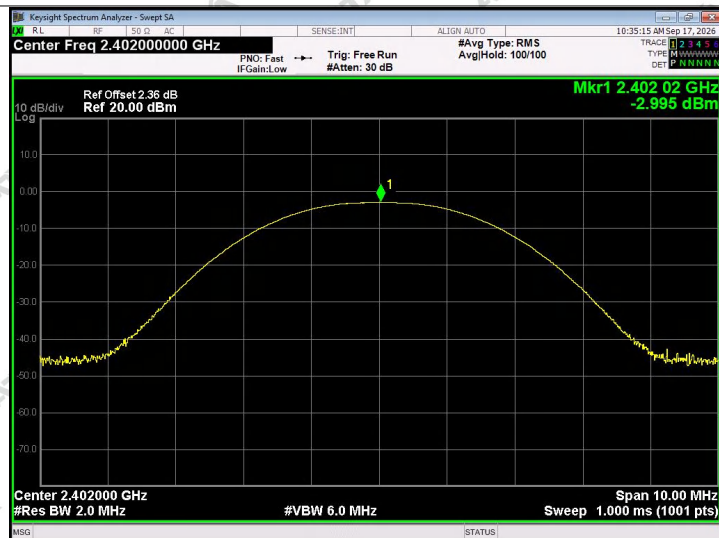


Maximum Peak Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Conducted Power (dBm)	Conducted Power (W)	Limit Conducted(dBm)	Verdict
NVNT	BLE 1M SISO	2402	Ant1	-3	0	-3	0.0005	30	Pass
NVNT	BLE 1M SISO	2440	Ant1	-2.39	0	-2.39	0.00058	30	Pass
NVNT	BLE 1M SISO	2480	Ant1	-2.84	0	-2.84	0.00052	30	Pass
NVNT	BLE 2M SISO	2402	Ant1	-3.09	0	-3.09	0.00049	30	Pass
NVNT	BLE 2M SISO	2440	Ant1	-2.99	0	-2.99	0.0005	30	Pass
NVNT	BLE 2M SISO	2480	Ant1	-2.94	0	-2.94	0.00051	30	Pass

Test Graphs

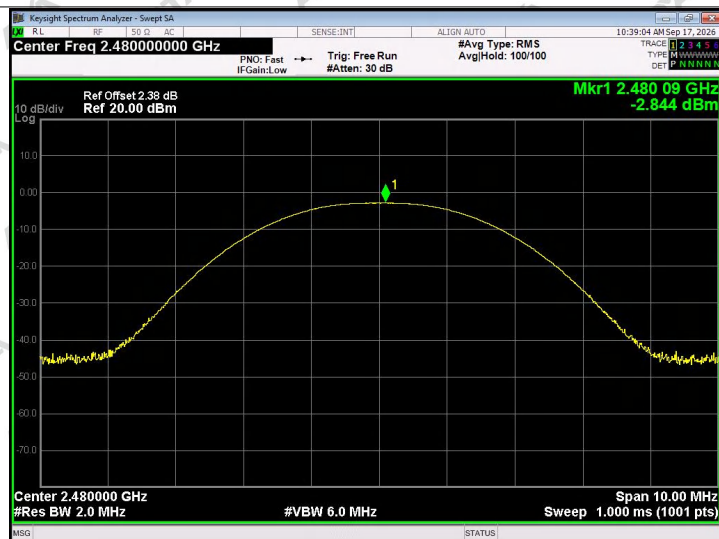
Peak Power NVNT BLE 1M 2402MHz Ant1 SISO



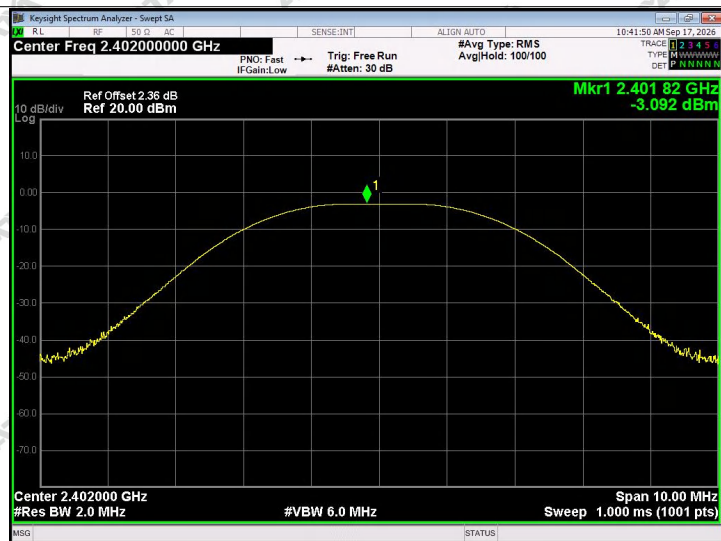
Peak Power NVNT BLE 1M 2440MHz Ant1 SISO



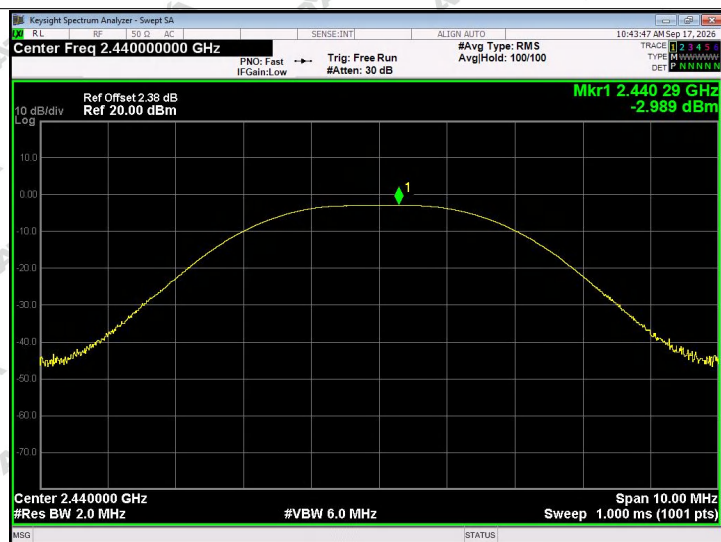
Peak Power NVNT BLE 1M 2480MHz Ant1 SISO



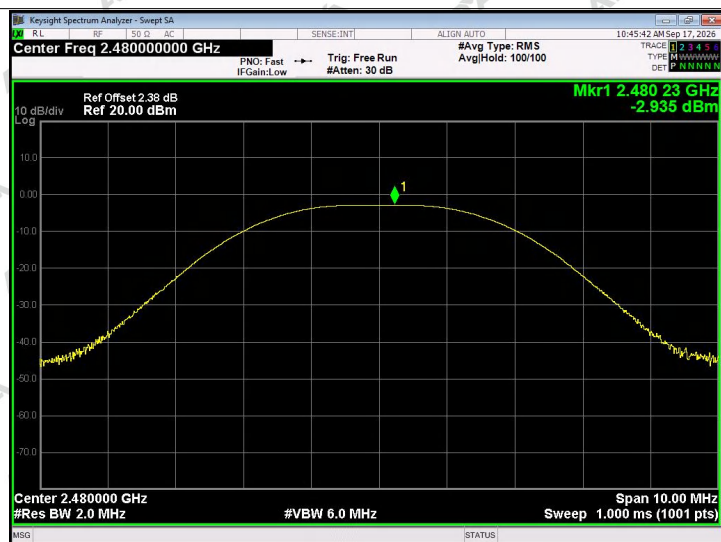
Peak Power NVNT BLE 2M 2402MHz Ant1 SISO



Peak Power NVNT BLE 2M 2440MHz Ant1 SISO



Peak Power NVNT BLE 2M 2480MHz Ant1 SISO



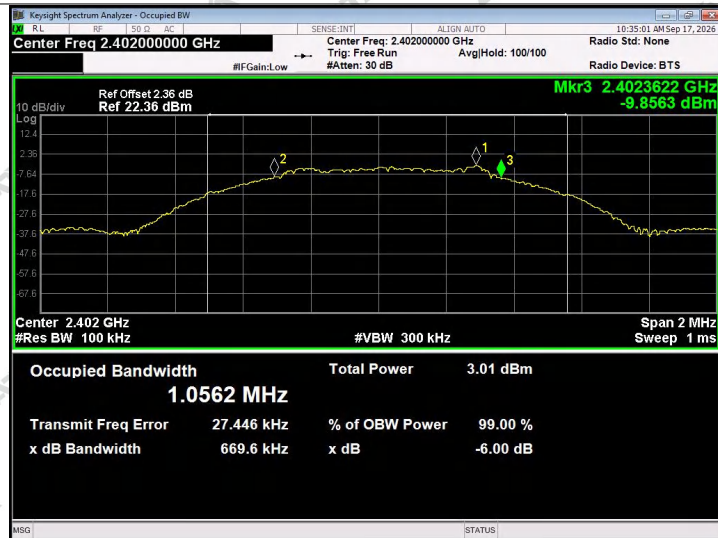
-6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M SISO	2402	Ant1	0.6696	0.5	Pass
NVNT	BLE 1M SISO	2440	Ant1	0.6717	0.5	Pass
NVNT	BLE 1M SISO	2480	Ant1	0.6597	0.5	Pass
NVNT	BLE 2M SISO	2402	Ant1	1.257	0.5	Pass
NVNT	BLE 2M SISO	2440	Ant1	1.239	0.5	Pass
NVNT	BLE 2M SISO	2480	Ant1	1.354	0.5	Pass

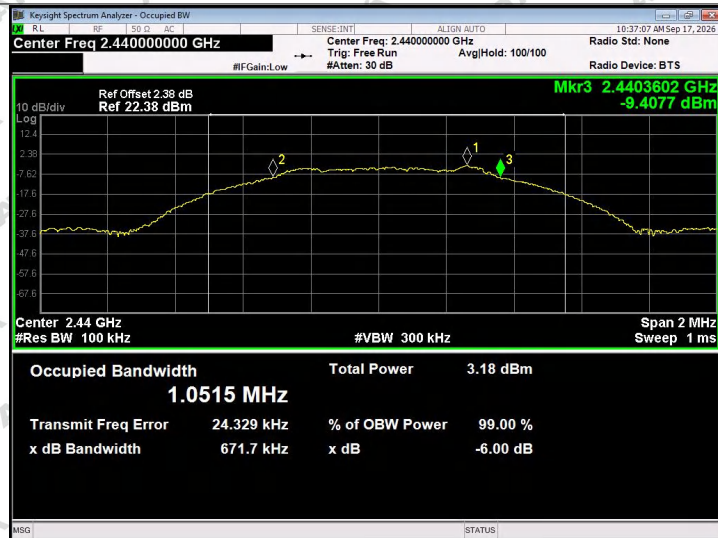


Test Graphs

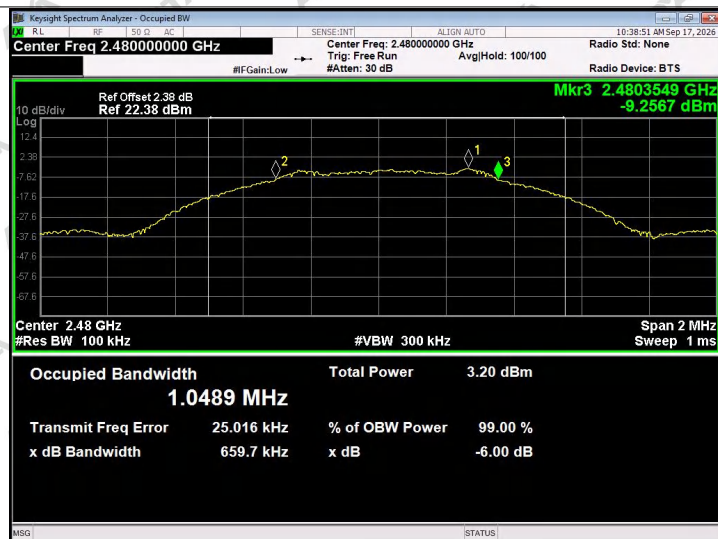
-6dB Bandwidth NVNT BLE 1M 2402MHz Ant1 SISO



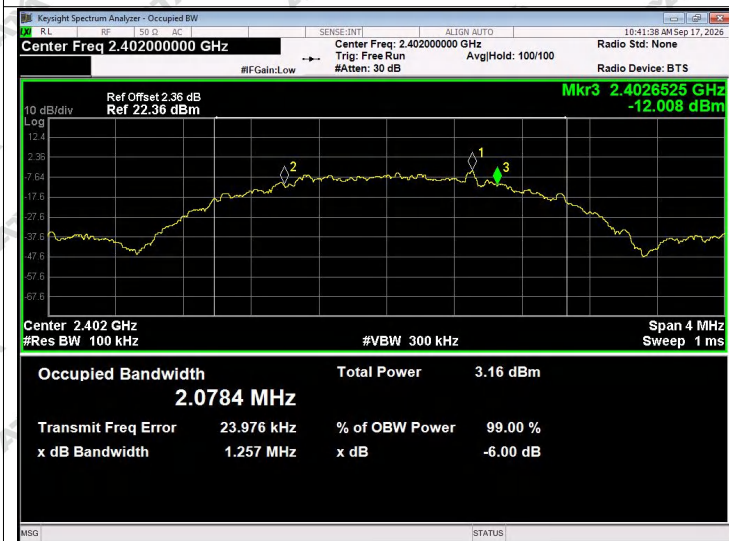
-6dB Bandwidth NVNT BLE 1M 2440MHz Ant1 SISO



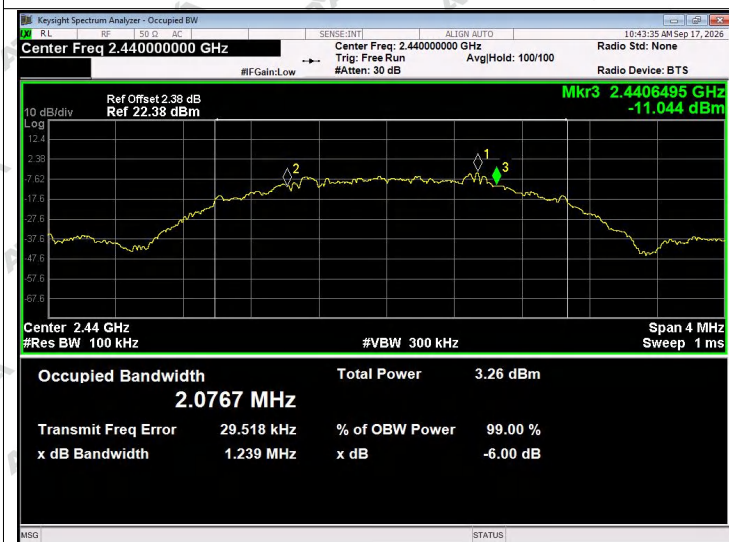
-6dB Bandwidth NVNT BLE 1M 2480MHz Ant1 SISO



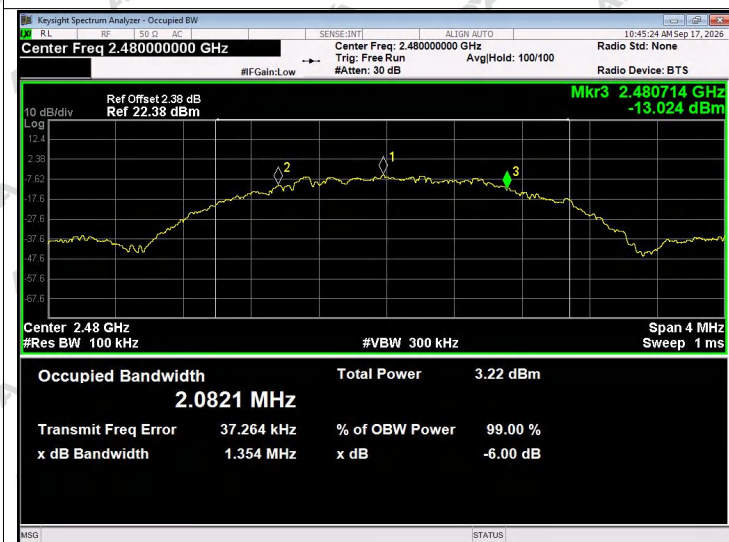
-6dB Bandwidth NVNT BLE 2M 2402MHz Ant1 SISO



-6dB Bandwidth NVNT BLE 2M 2440MHz Ant1 SISO



-6dB Bandwidth NVNT BLE 2M 2480MHz Ant1 SISO



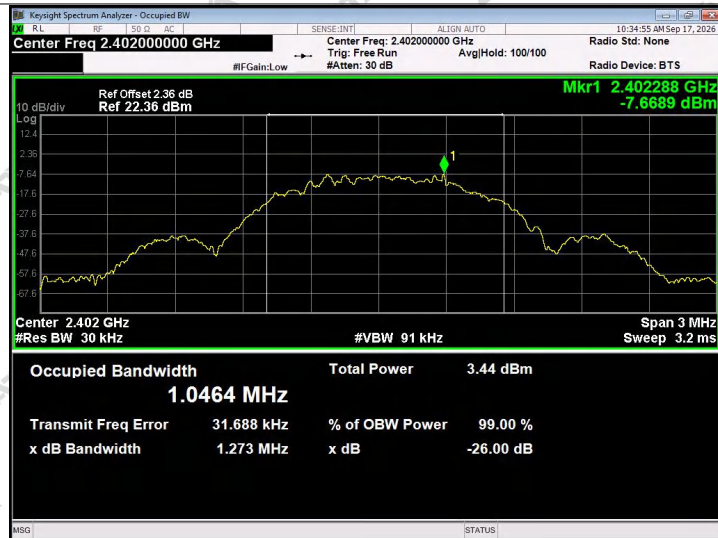
Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	BLE 1M SISO	2402	Ant1	1.0464
NVNT	BLE 1M SISO	2440	Ant1	1.0427
NVNT	BLE 1M SISO	2480	Ant1	1.0405
NVNT	BLE 2M SISO	2402	Ant1	2.0697
NVNT	BLE 2M SISO	2440	Ant1	2.0693
NVNT	BLE 2M SISO	2480	Ant1	2.0685

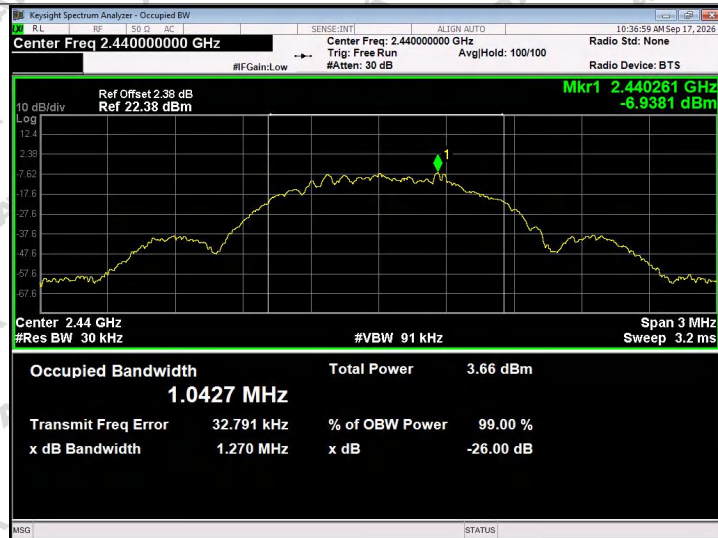


Test Graphs

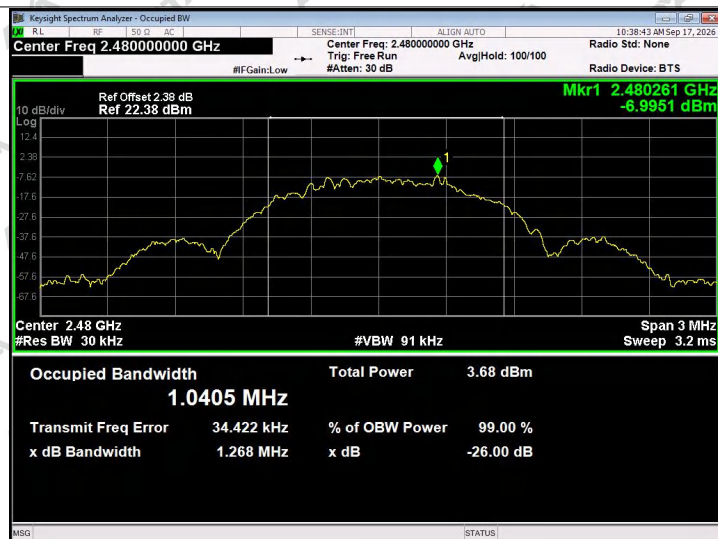
OBW NVNT BLE 1M 2402MHz Ant1 SISO



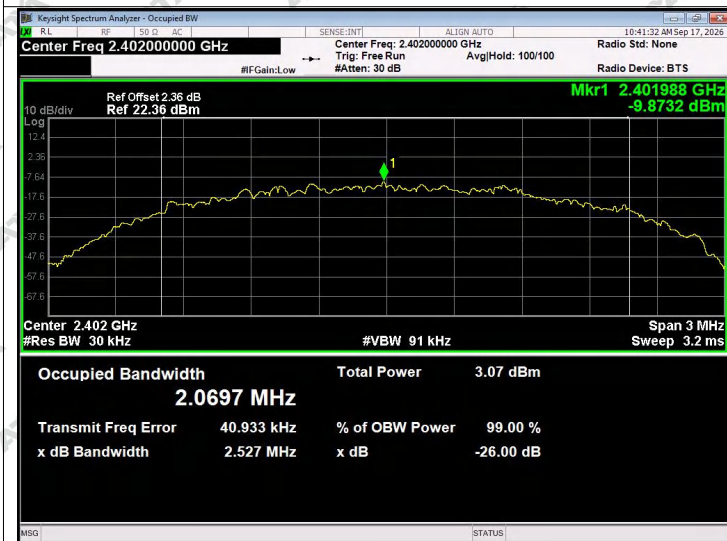
OBW NVNT BLE 1M 2440MHz Ant1 SISO



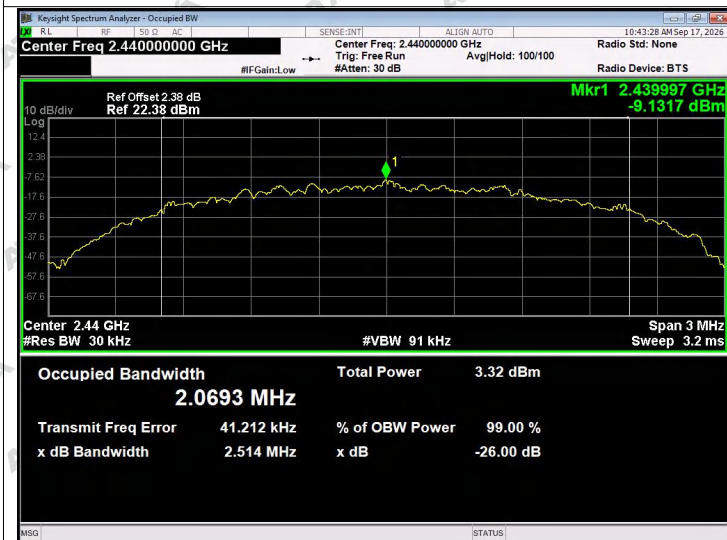
OBW NVNT BLE 1M 2480MHz Ant1 SISO



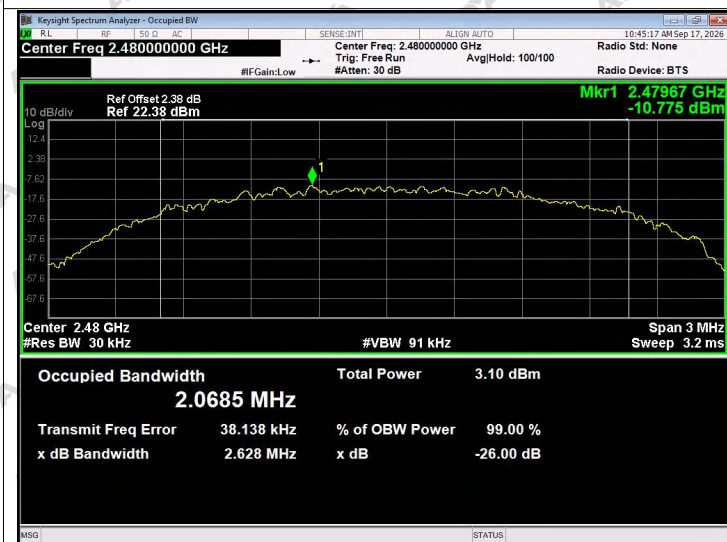
OBW NVNT BLE 2M 2402MHz Ant1 SISO



OBW NVNT BLE 2M 2440MHz Ant1 SISO



OBW NVNT BLE 2M 2480MHz Ant1 SISO



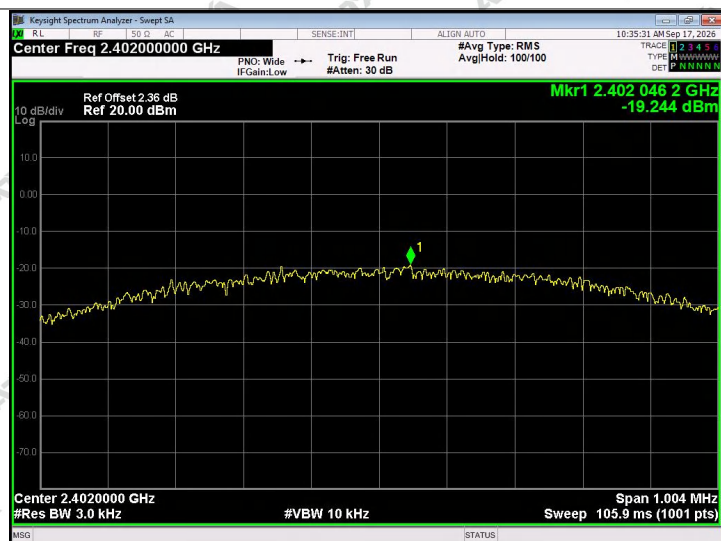
Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Duty Factor (dB)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	BLE 1M SISO	2402	Ant1	-19.24	0	-19.24	8	Pass
NVNT	BLE 1M SISO	2440	Ant1	-18.72	0	-18.72	8	Pass
NVNT	BLE 1M SISO	2480	Ant1	-19.1	0	-19.1	8	Pass
NVNT	BLE 2M SISO	2402	Ant1	-21.91	0	-21.91	8	Pass
NVNT	BLE 2M SISO	2440	Ant1	-21.6	0	-21.6	8	Pass
NVNT	BLE 2M SISO	2480	Ant1	-21.54	0	-21.54	8	Pass

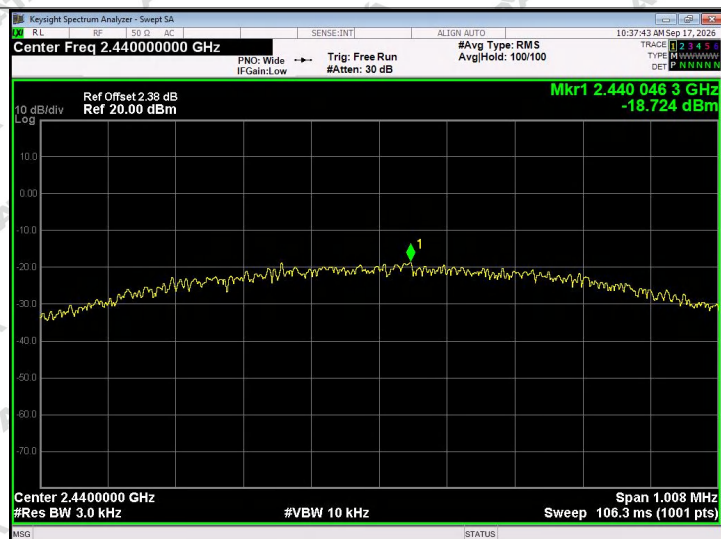


Test Graphs

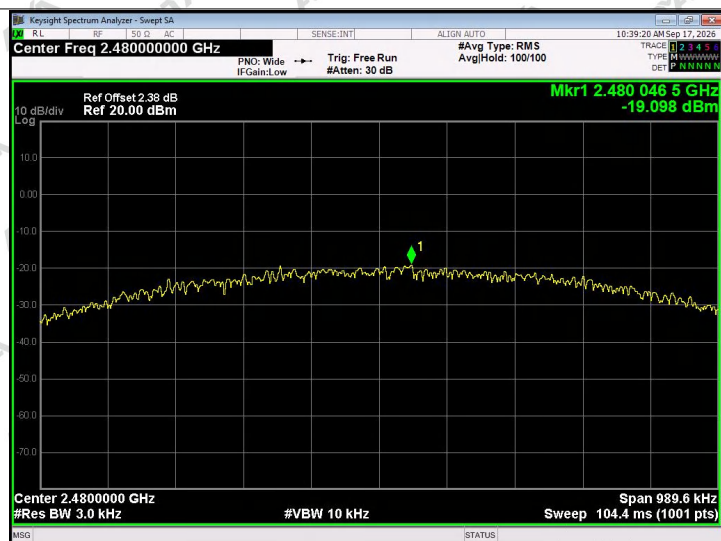
PSD NVNT BLE 1M 2402MHz Ant1 SISO



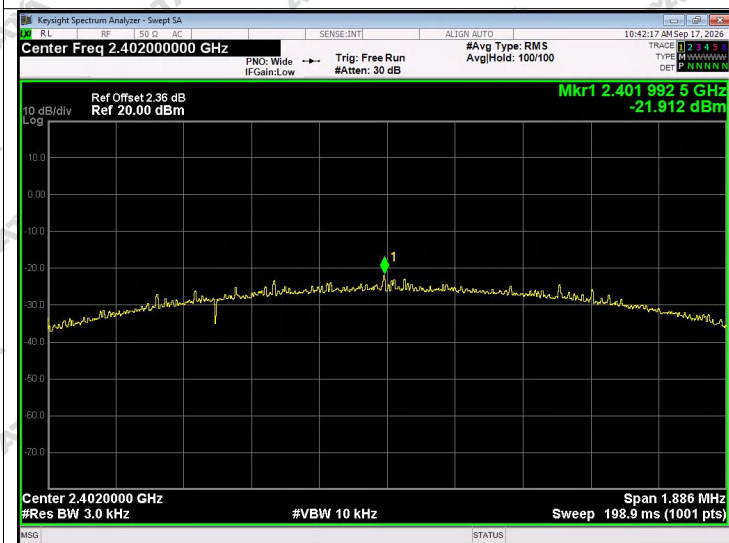
PSD NVNT BLE 1M 2440MHz Ant1 SISO



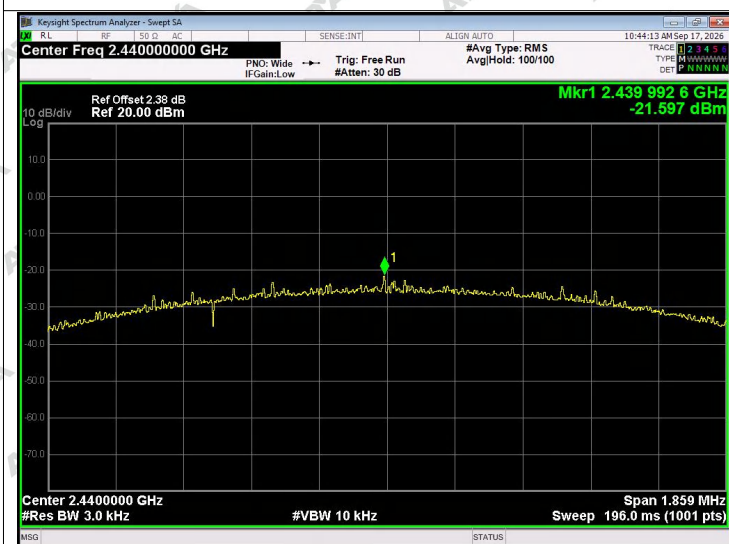
PSD NVNT BLE 1M 2480MHz Ant1 SISO



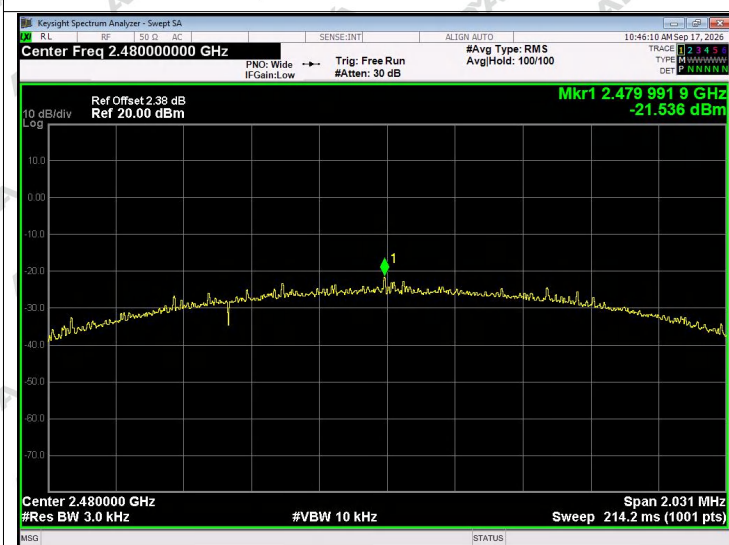
PSD NVNT BLE 2M 2402MHz Ant1 SISO



PSD NVNT BLE 2M 2440MHz Ant1 SISO



PSD NVNT BLE 2M 2480MHz Ant1 SISO



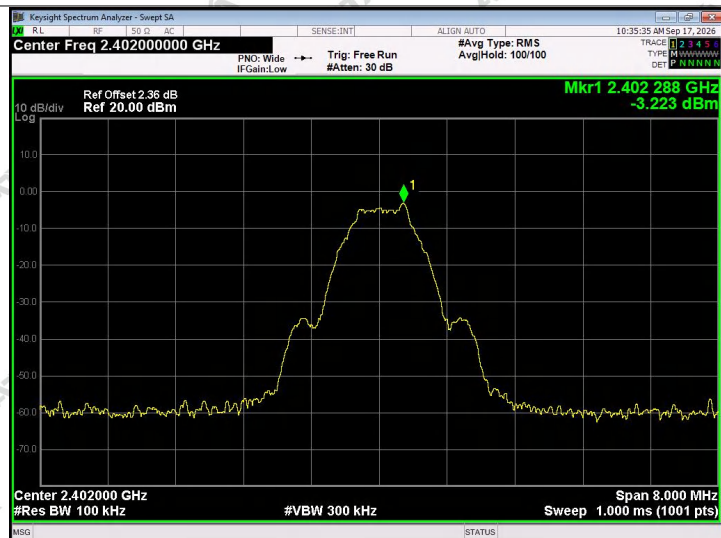
Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M SISO	2402	Ant1	-52.66	-20	Pass
NVNT	BLE 1M SISO	2480	Ant1	-52.53	-20	Pass
NVNT	BLE 2M SISO	2402	Ant1	-34.77	-20	Pass
NVNT	BLE 2M SISO	2480	Ant1	-51.91	-20	Pass

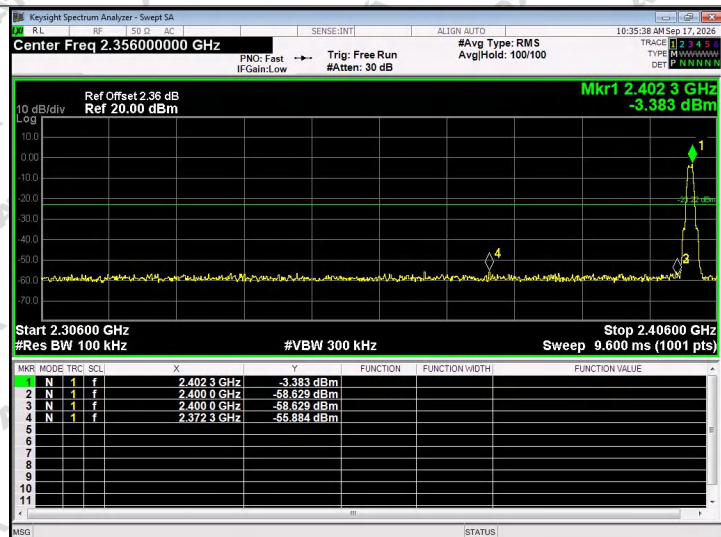


Test Graphs

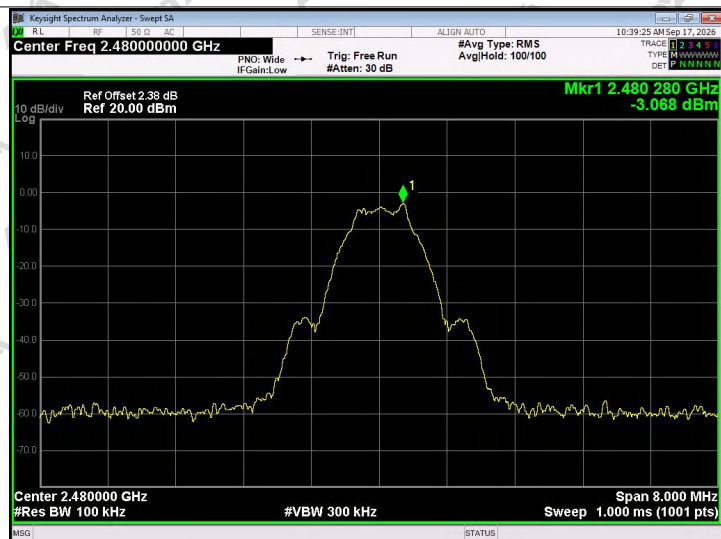
Band Edge NVNT BLE 1M 2402MHz Ant1 Ref SISO



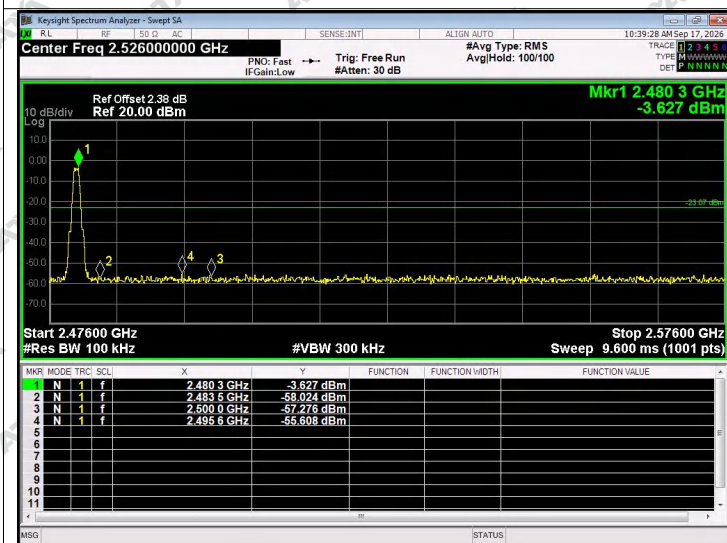
Band Edge NVNT BLE 1M 2402MHz Ant1 Emission SISO



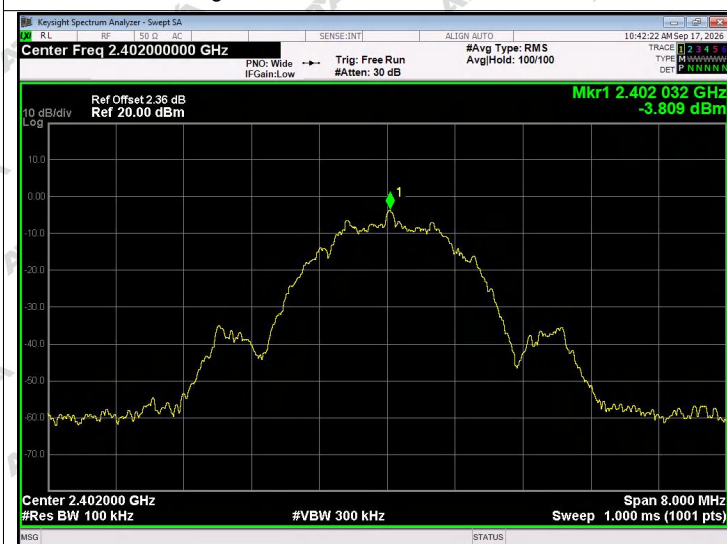
Band Edge NVNT BLE 1M 2480MHz Ant1 Ref SISO



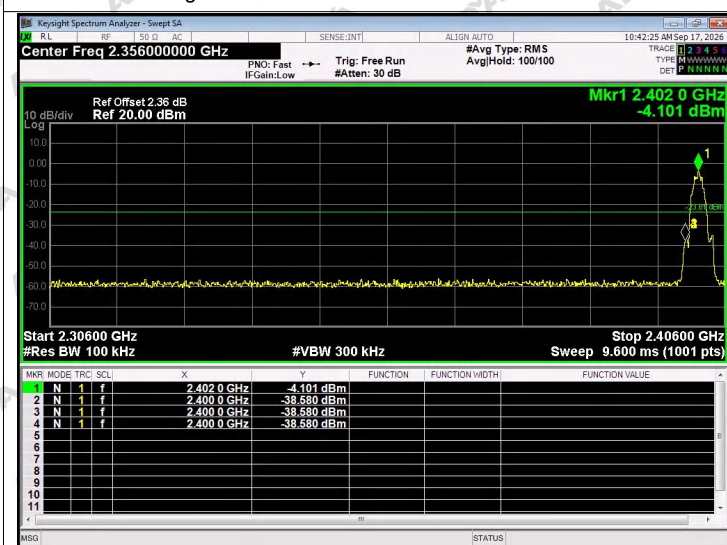
Band Edge NVNT BLE 1M 2480MHz Ant1 Emission SISO



Band Edge NVNT BLE 2M 2402MHz Ant1 Ref SISO



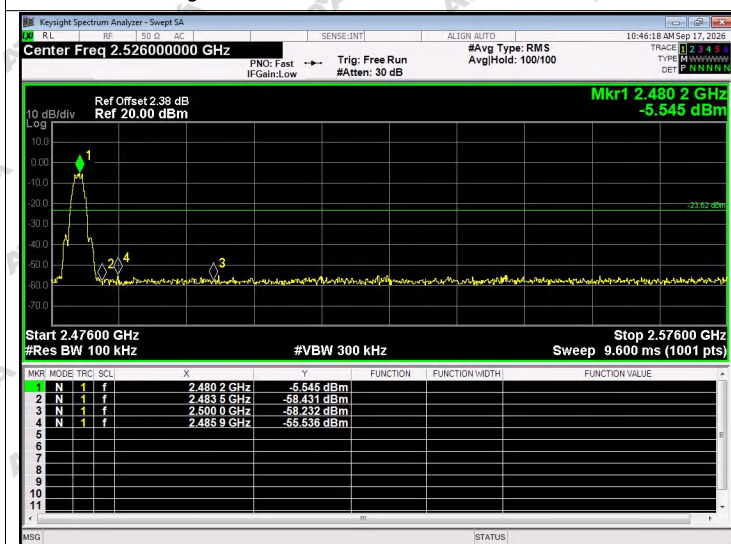
Band Edge NVNT BLE 2M 2402MHz Ant1 Emission SISO



Band Edge NVNT BLE 2M 2480MHz Ant1 Ref SISO



Band Edge NVNT BLE 2M 2480MHz Ant1 Emission SISO



Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M SISO	2402	Ant1	-37.1	-20	Pass
NVNT	BLE 1M SISO	2440	Ant1	-38.64	-20	Pass
NVNT	BLE 1M SISO	2480	Ant1	-37.79	-20	Pass
NVNT	BLE 2M SISO	2402	Ant1	-37.67	-20	Pass
NVNT	BLE 2M SISO	2440	Ant1	-37.72	-20	Pass
NVNT	BLE 2M SISO	2480	Ant1	-37.1	-20	Pass

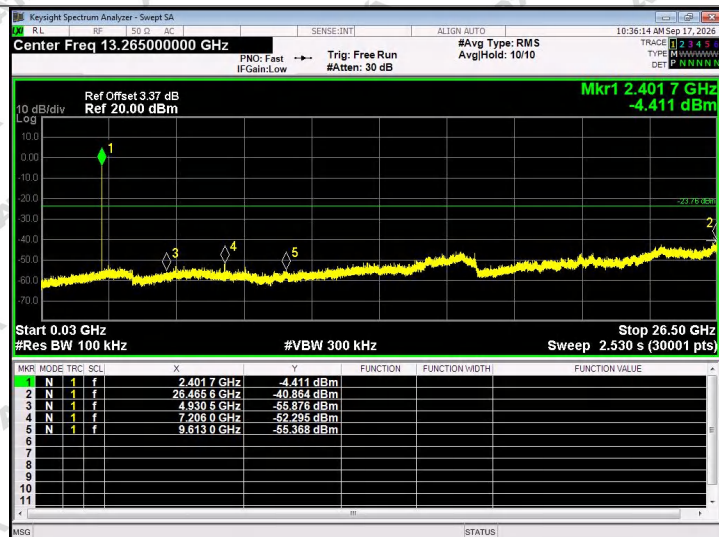


Test Graphs

Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Ref SISO



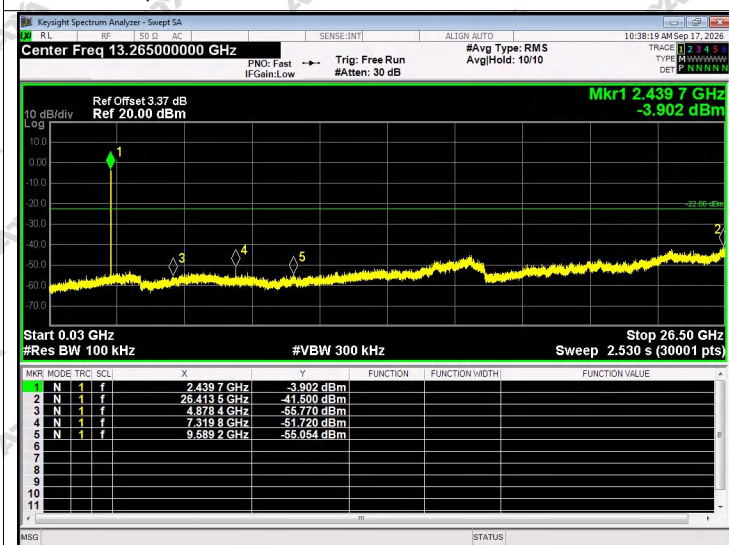
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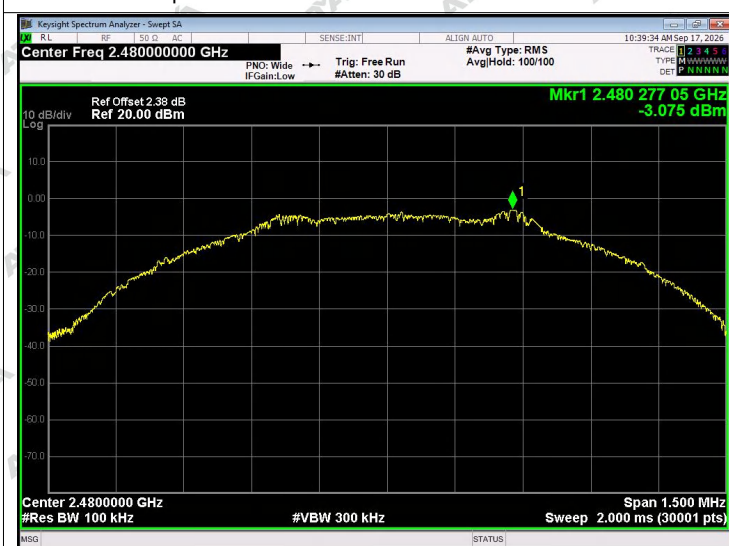
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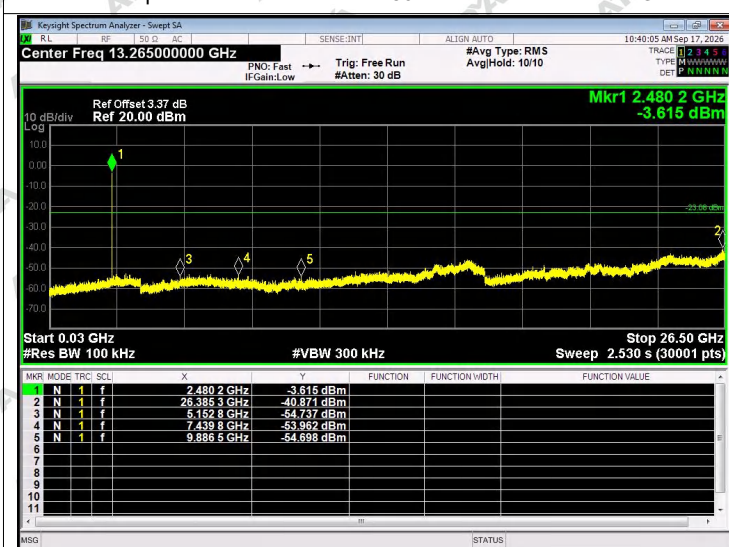
Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Emission SISO



Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Ref SISO



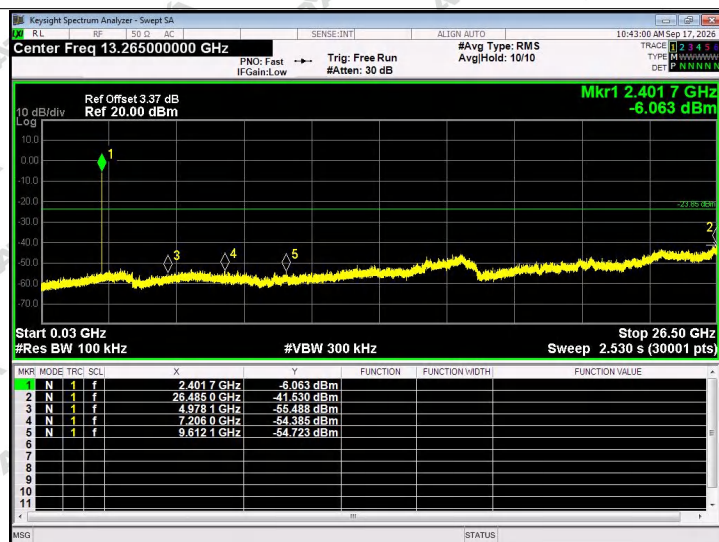
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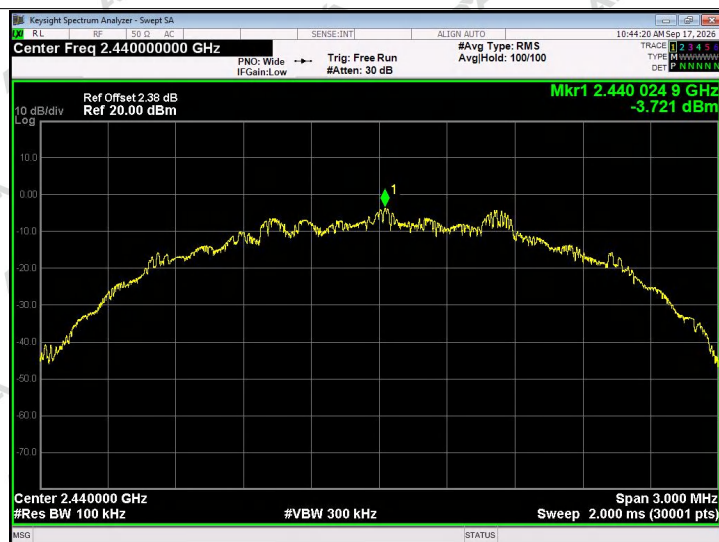
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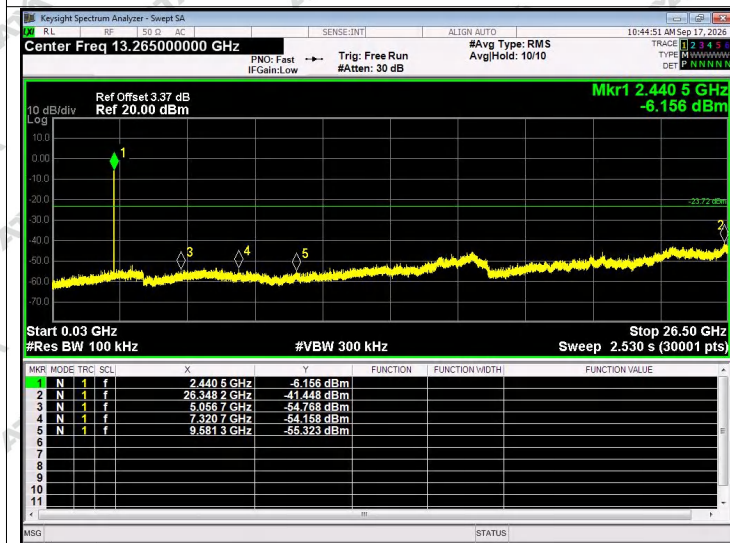
Tx. Spurious NVNT BLE 2M 2402MHz Ant1 Emission SISO



Tx. Spurious NVNT BLE 2M 2440MHz Ant1 Ref SISO



Tx. Spurious NVNT BLE 2M 2440MHz Ant1 Emission SISO



Tx. Spurious NVNT BLE 2M 2480MHz Ant1 Ref SISO



Tx. Spurious NVNT BLE 2M 2480MHz Ant1 Emission SISO

