



Appendix A

RF Test Data for BLE (Conducted Measurement)

Product Name: Heart Rate Monitor

Test Model: C5

Environmental Conditions

Temperature:	23.8 ° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Joker Hu
Supervised by:	Ling Zhu



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A.1 -6dB Bandwidth

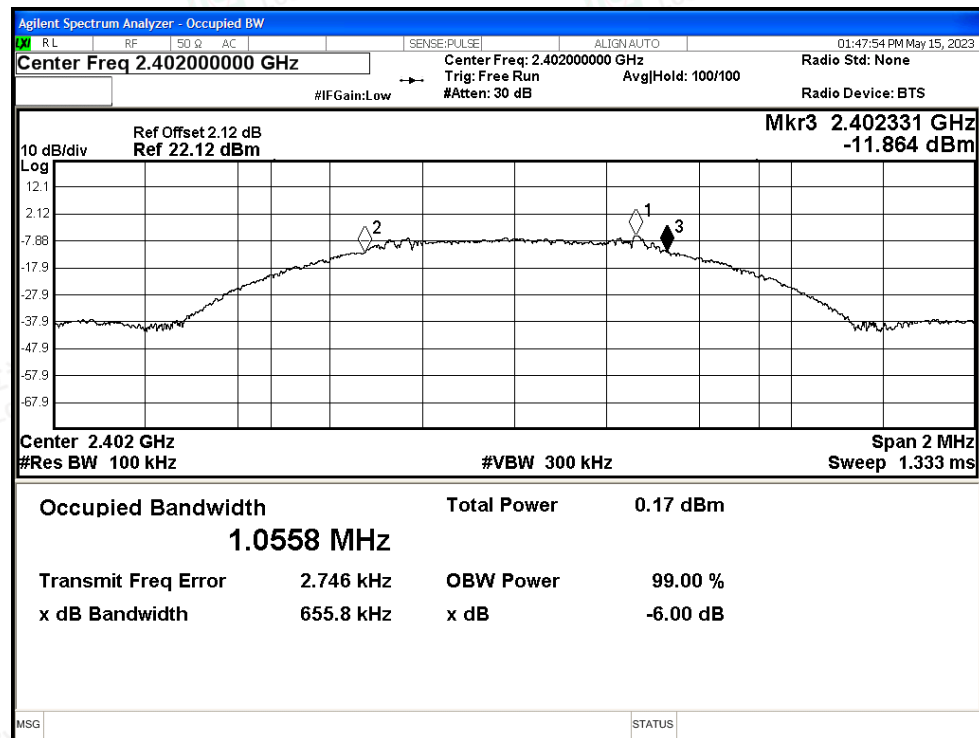
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE	2402	Ant	0.656	≥ 0.5	Pass
NVNT	BLE	2440	Ant	0.649	≥ 0.5	Pass
NVNT	BLE	2480	Ant	0.651	≥ 0.5	Pass



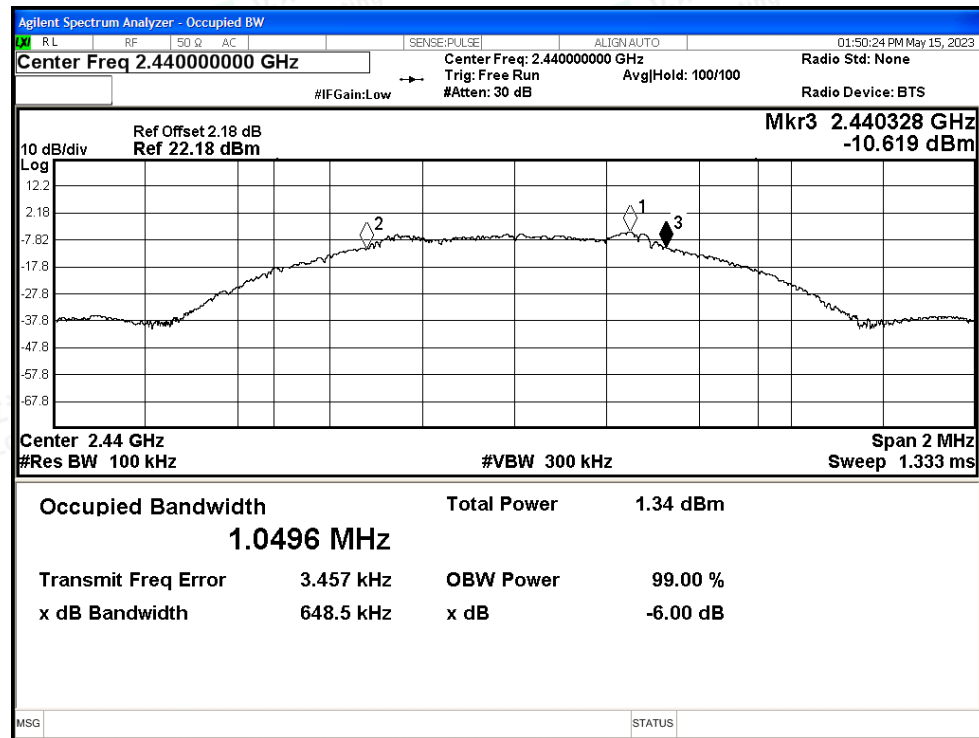


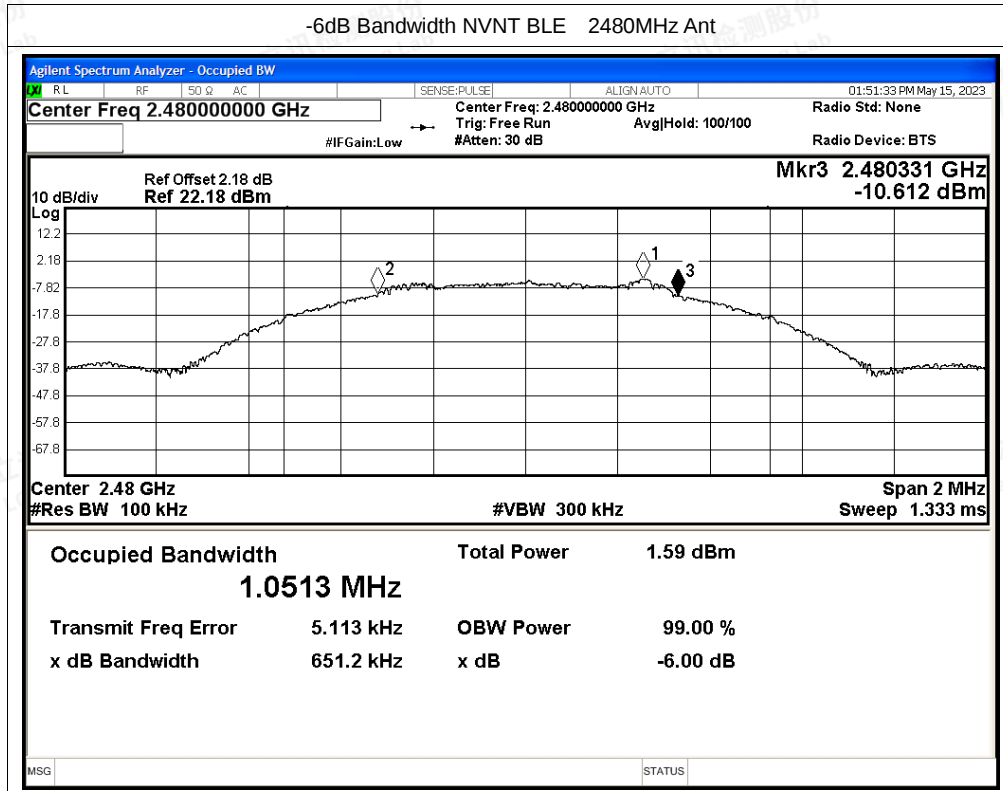
Test Graphs

-6dB Bandwidth NVNT BLE 2402MHz Ant



-6dB Bandwidth NVNT BLE 2440MHz Ant







A.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE	2402	Ant	-5.54	30	Pass
NVNT	BLE	2440	Ant	-4.59	30	Pass
NVNT	BLE	2480	Ant	-4.29	30	Pass

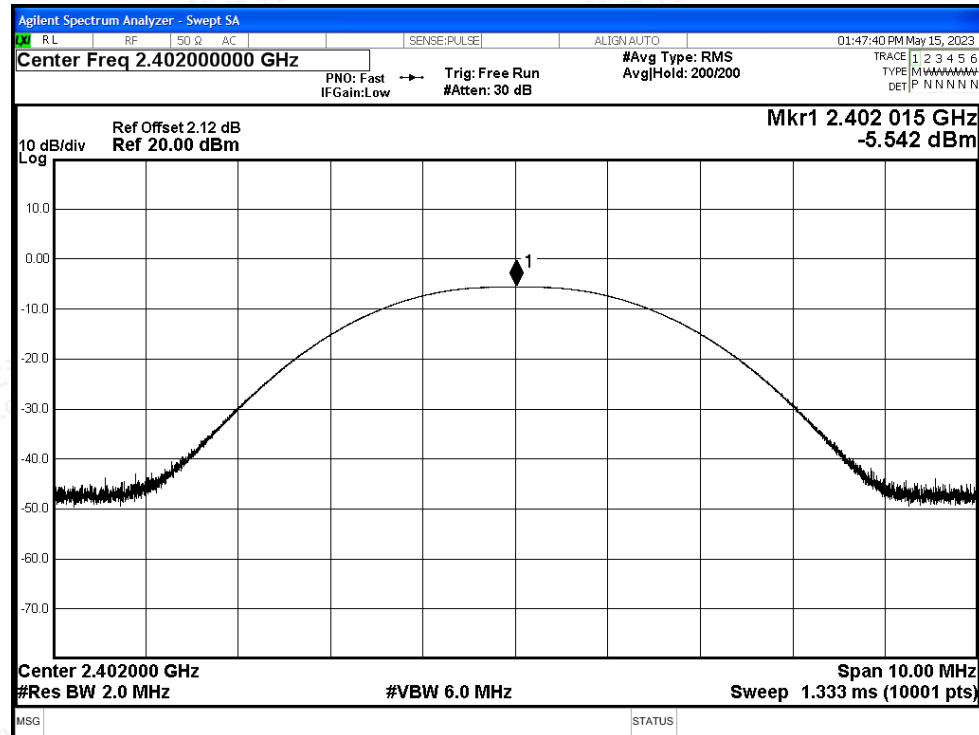


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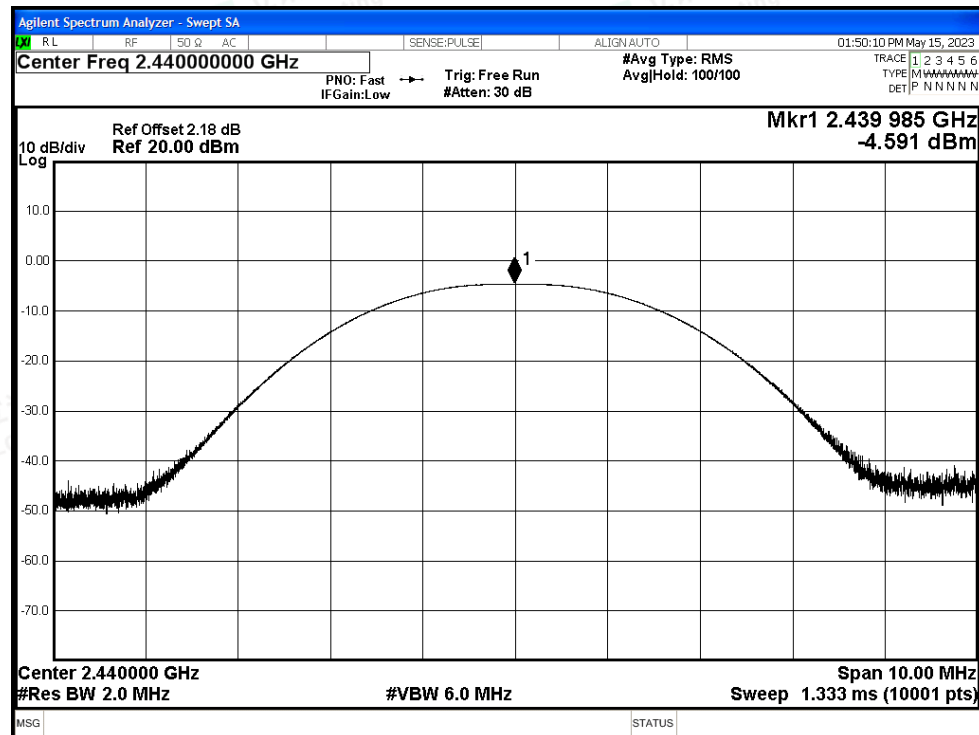


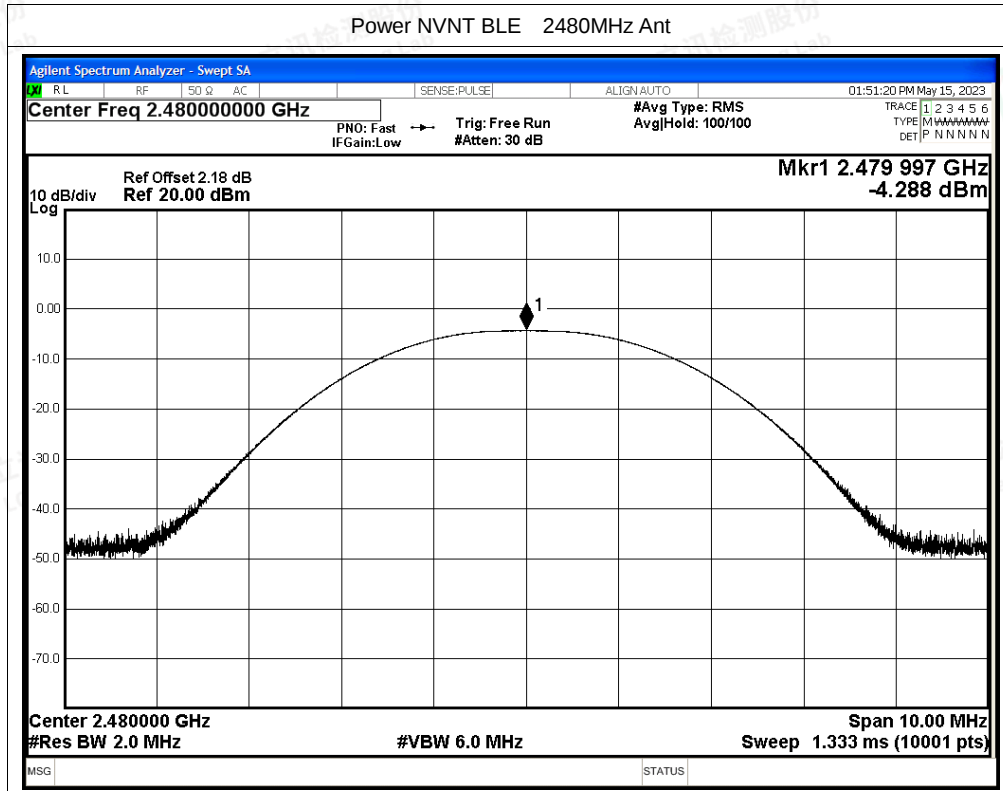
Test Graphs

Power NVNT BLE 2402MHz Ant



Power NVNT BLE 2440MHz Ant







A.3 Maximum Power Spectral Density Level

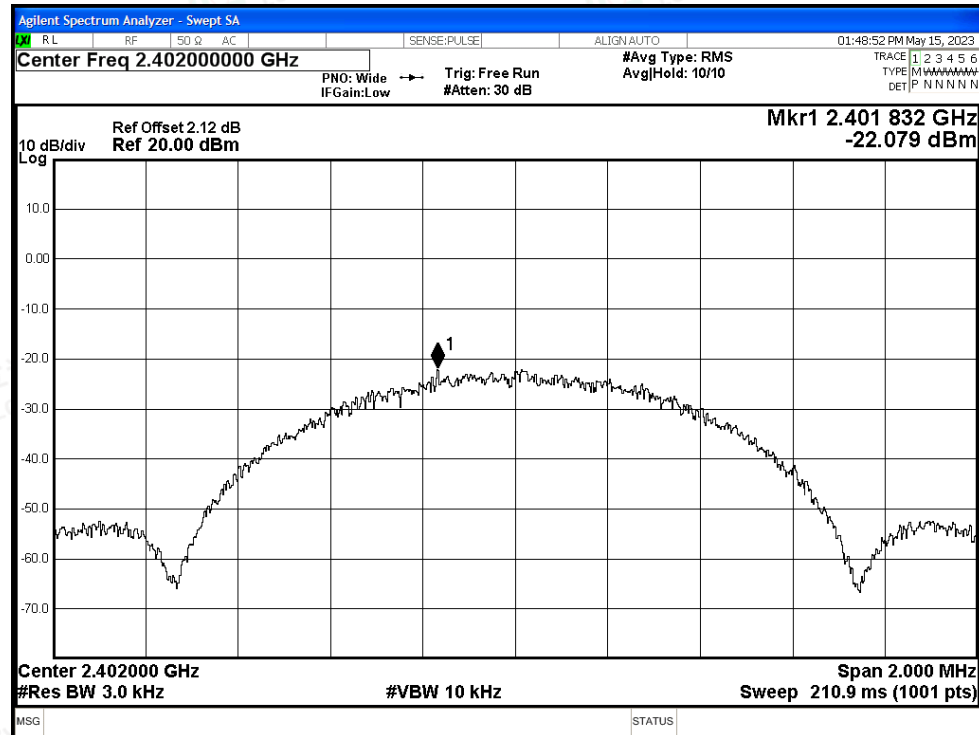
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	BLE	2402	Ant	-22.08	8	Pass
NVNT	BLE	2440	Ant	-21.25	8	Pass
NVNT	BLE	2480	Ant	-20.78	8	Pass



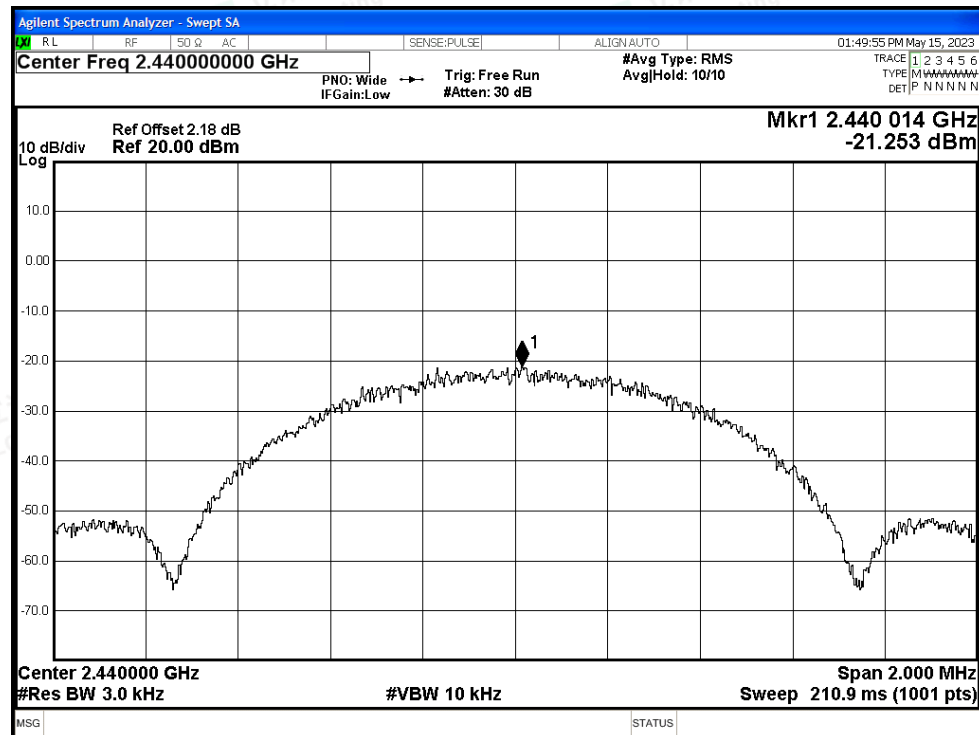


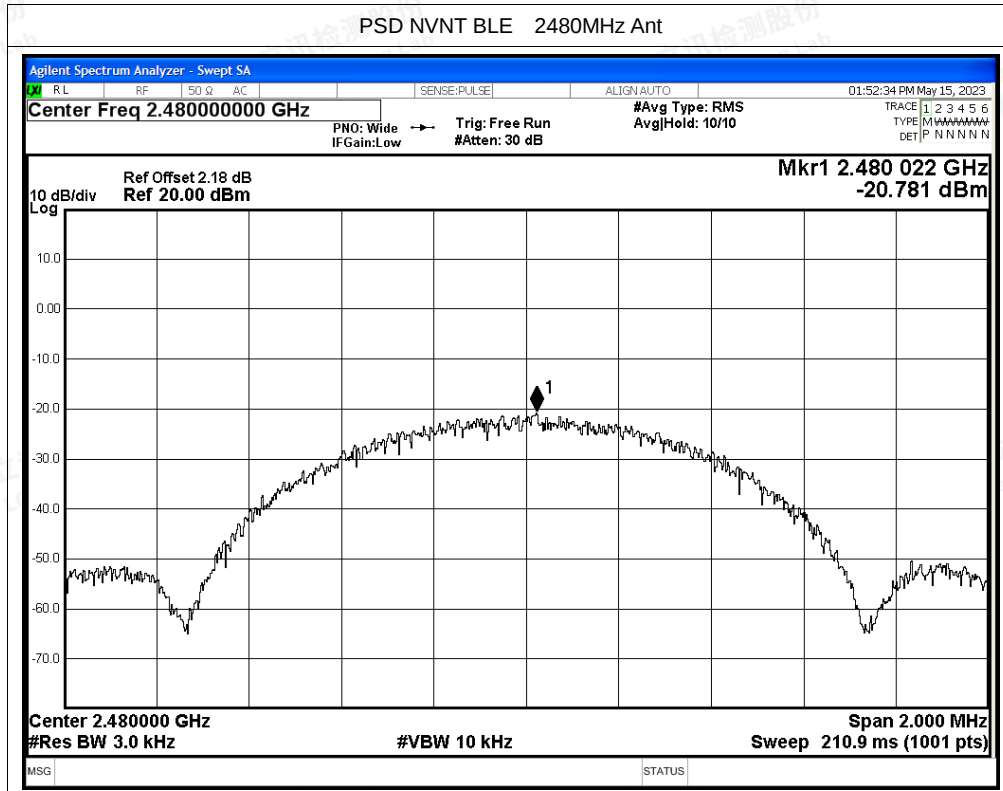
Test Graphs

PSD NVNT BLE 2402MHz Ant



PSD NVNT BLE 2440MHz Ant







A.4 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE	2402	Ant	-50.85	-20	Pass
NVNT	BLE	2480	Ant	-51.8	-20	Pass

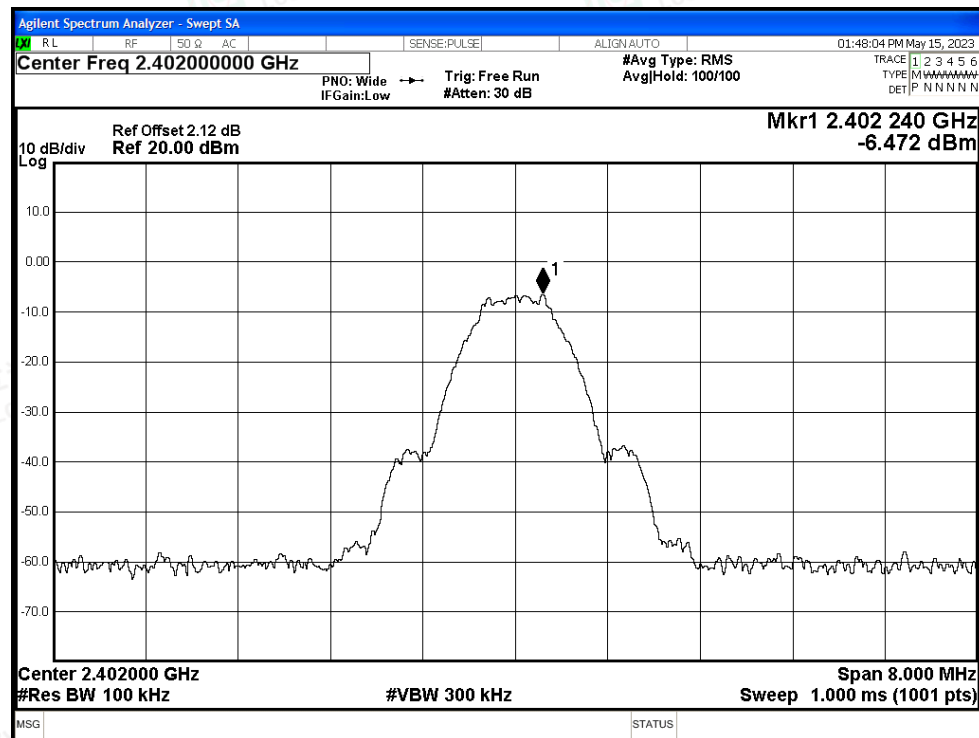


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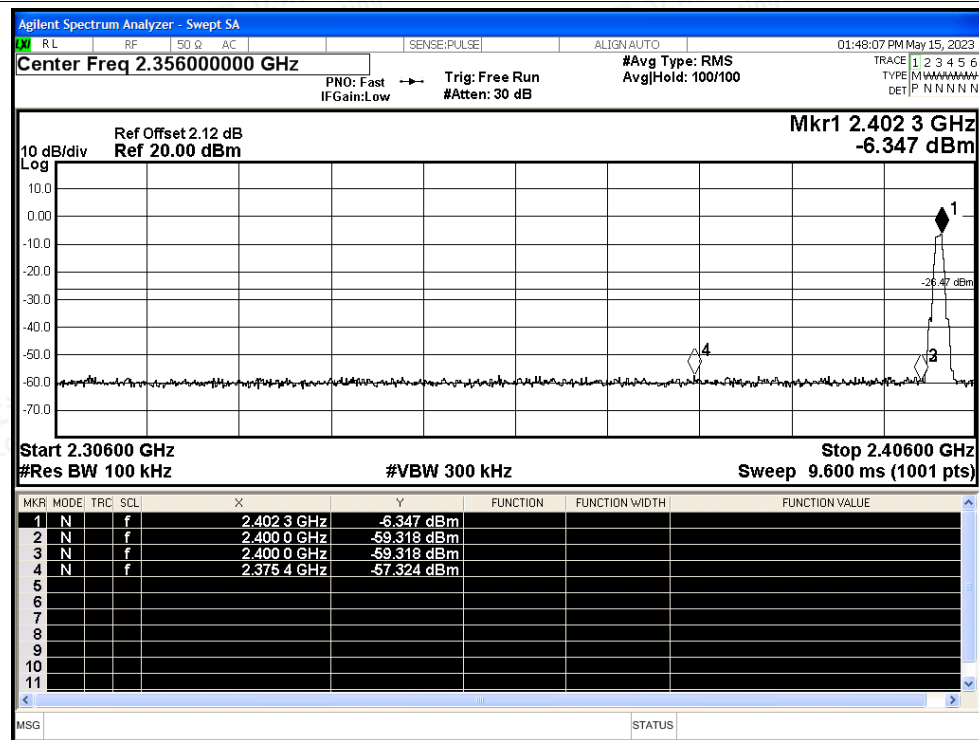


Test Graphs

Band Edge NVNT BLE 2402MHz Ant Ref

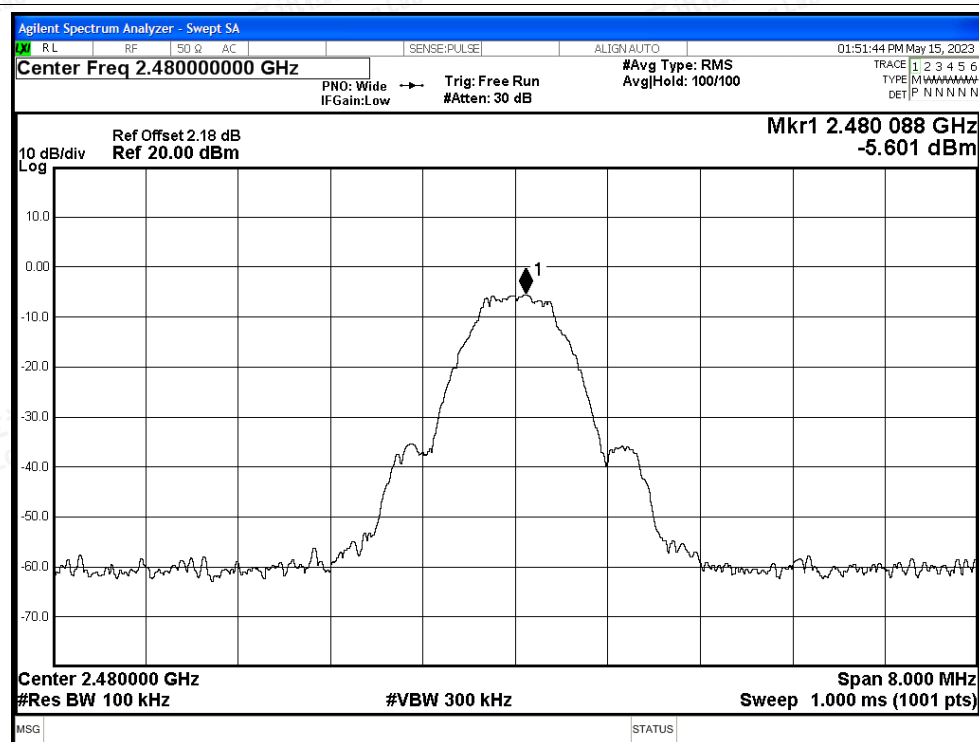


Band Edge NVNT BLE 2402MHz Ant Emission

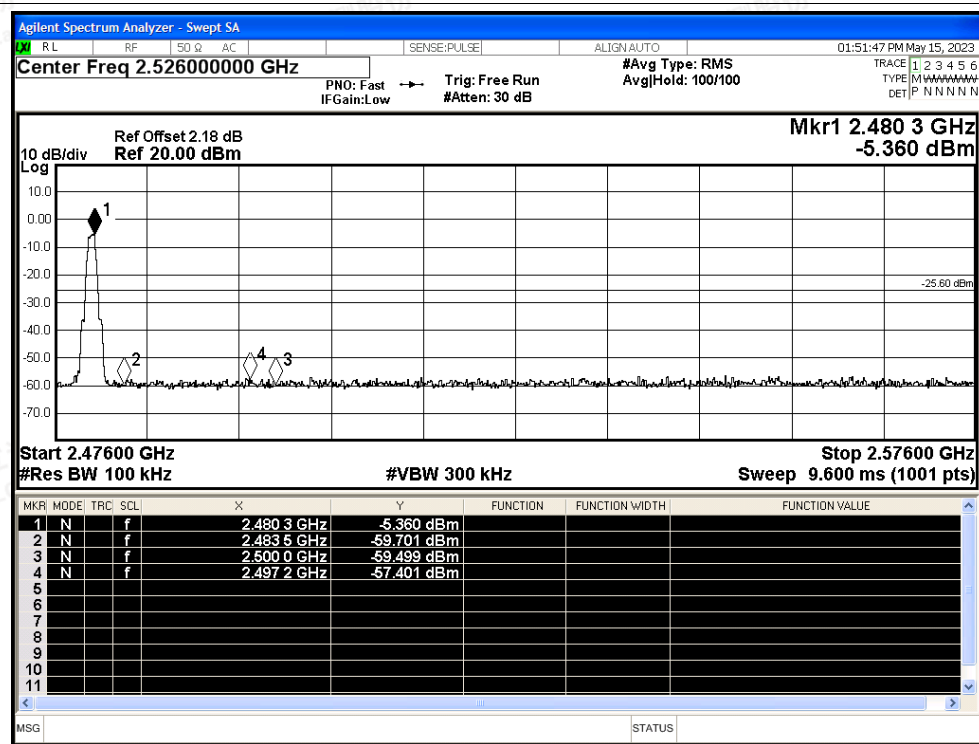




Band Edge NVNT BLE 2480MHz Ant Ref



Band Edge NVNT BLE 2480MHz Ant Emission





A.5 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE	2402	Ant	-49.58	-20	Pass
NVNT	BLE	2440	Ant	-50.3	-20	Pass
NVNT	BLE	2480	Ant	-50.86	-20	Pass

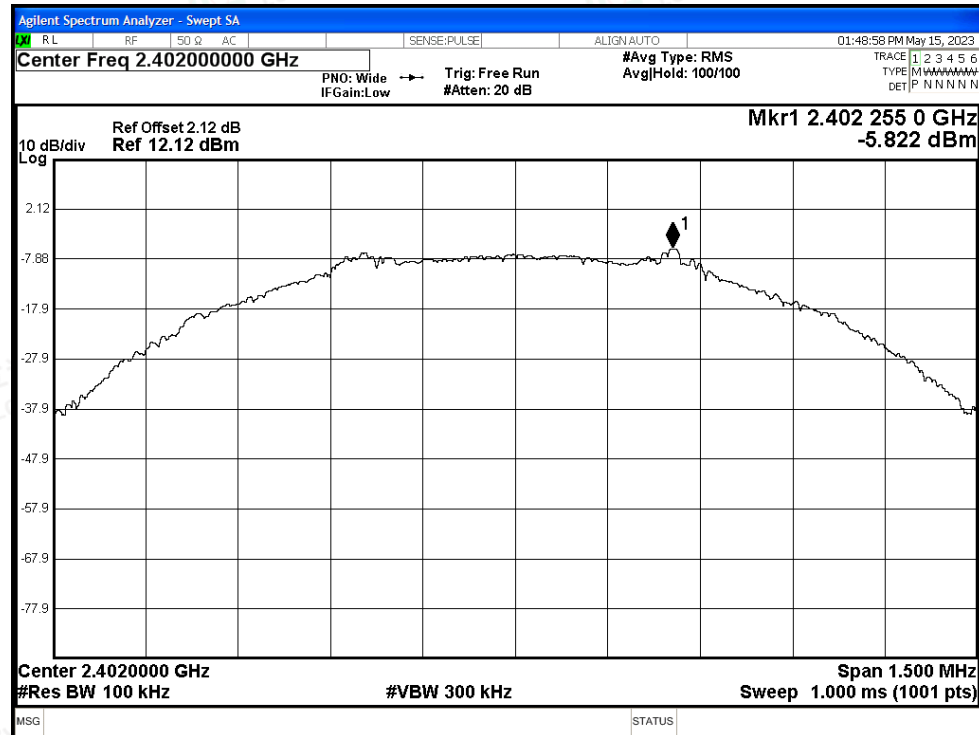


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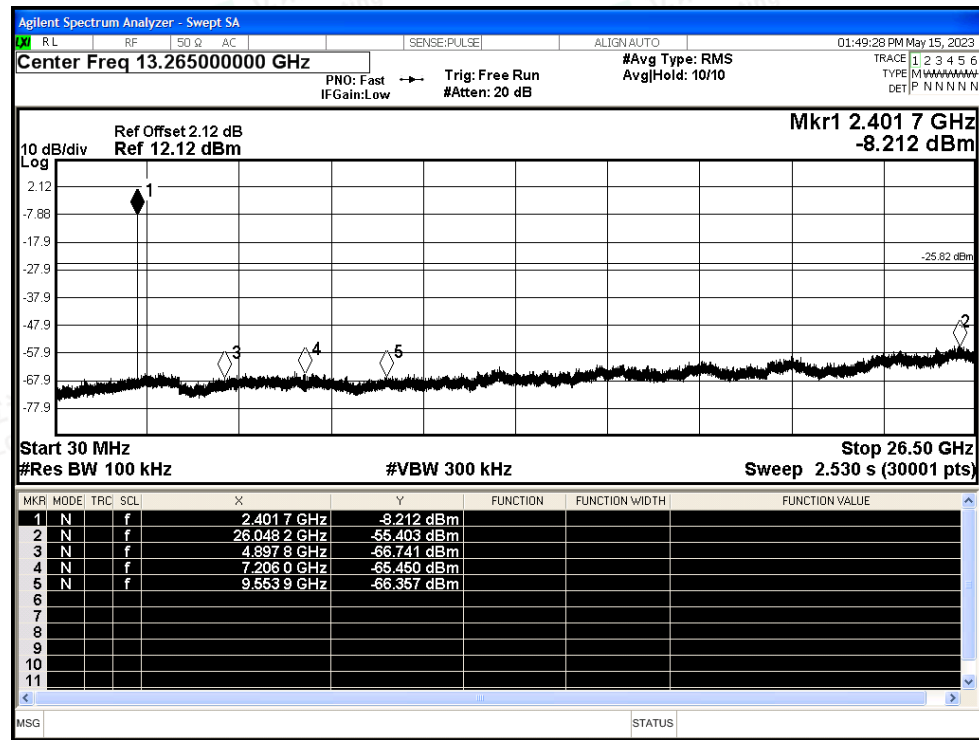


Test Graphs

Tx. Spurious NVNT BLE 2402MHz Ant Ref

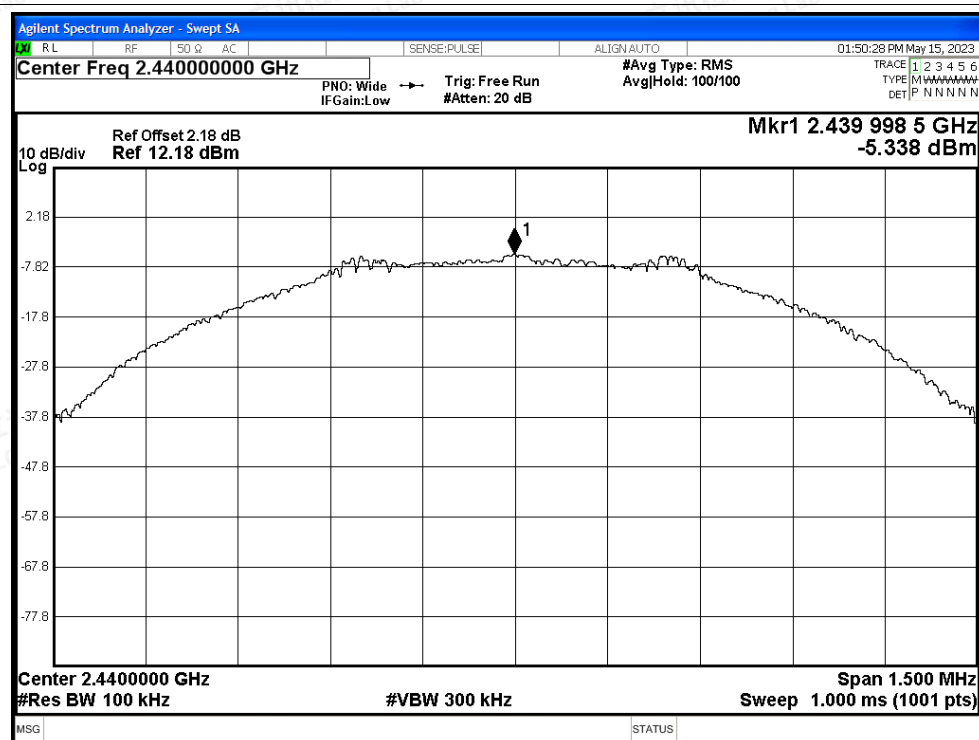


Tx. Spurious NVNT BLE 2402MHz Ant Emission

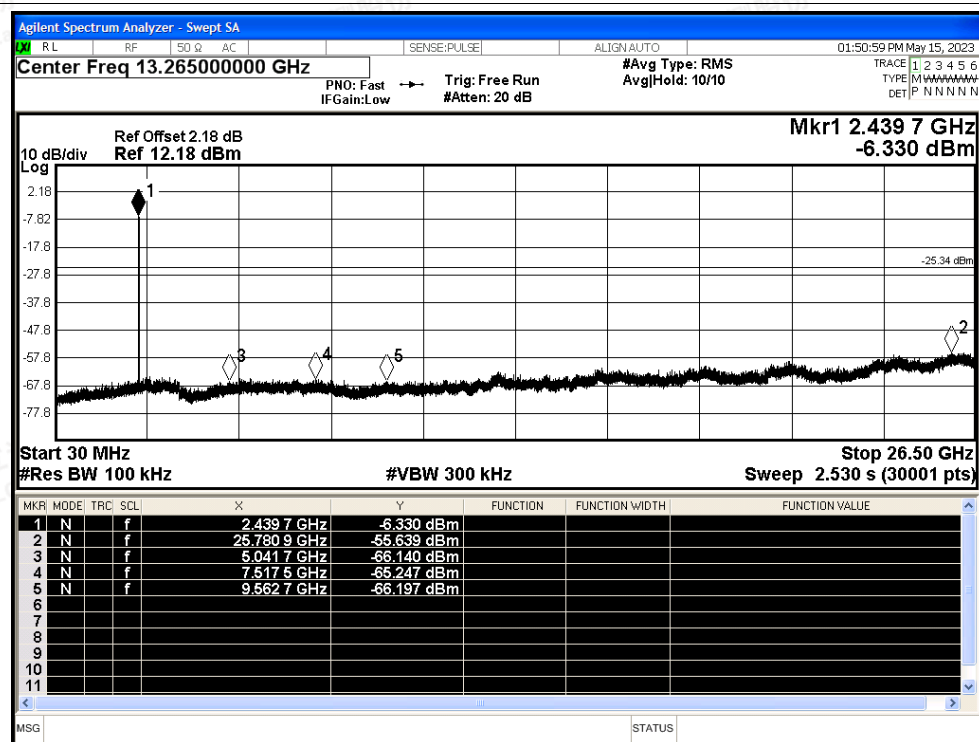




Tx. Spurious NVNT BLE 2440MHz Ant Ref

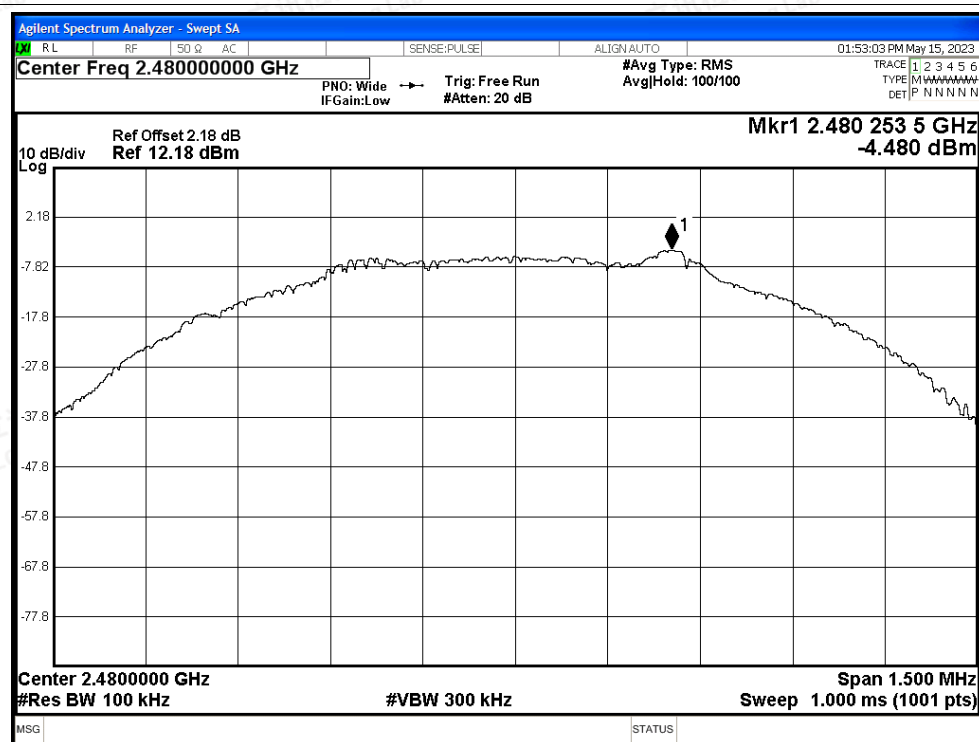


Tx. Spurious NVNT BLE 2440MHz Ant Emission

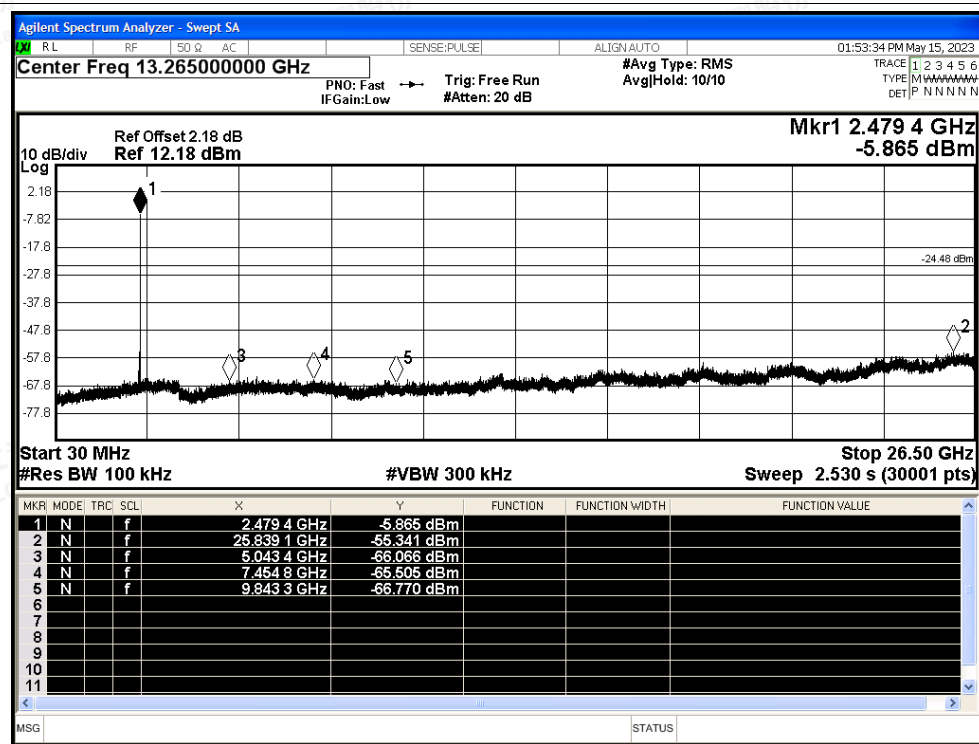




Tx. Spurious NVNT BLE 2480MHz Ant Ref



Tx. Spurious NVNT BLE 2480MHz Ant Emission





A.6 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	BLE	2402	Ant	85.1	0.7	0.47
NVNT	BLE	2440	Ant	85.1	0.7	0.47
NVNT	BLE	2480	Ant	85.1	0.7	0.47

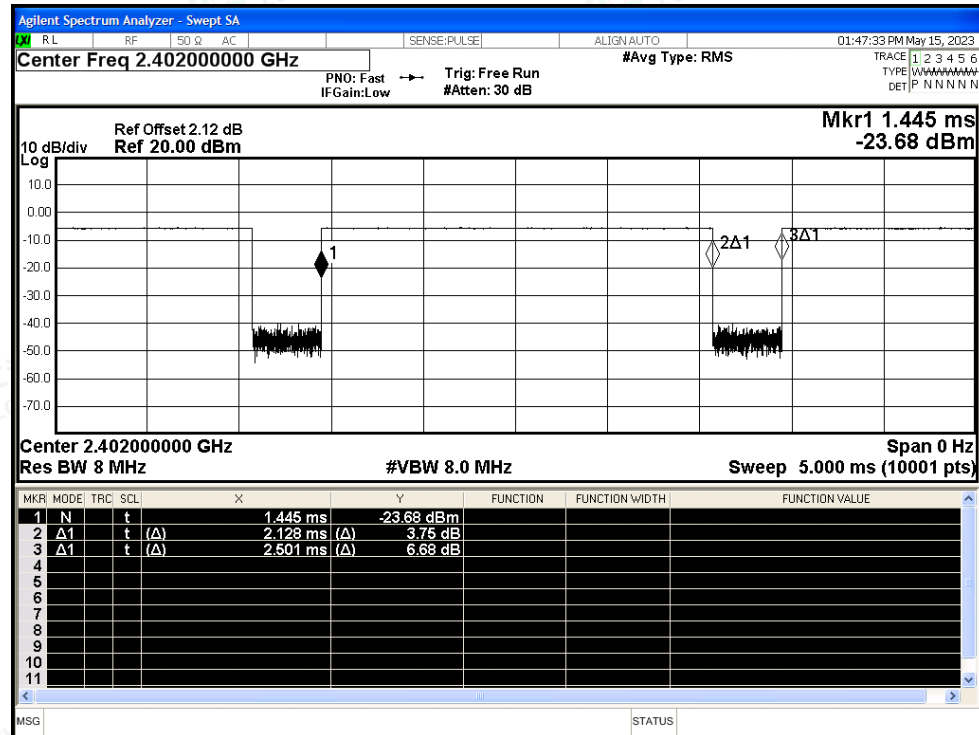


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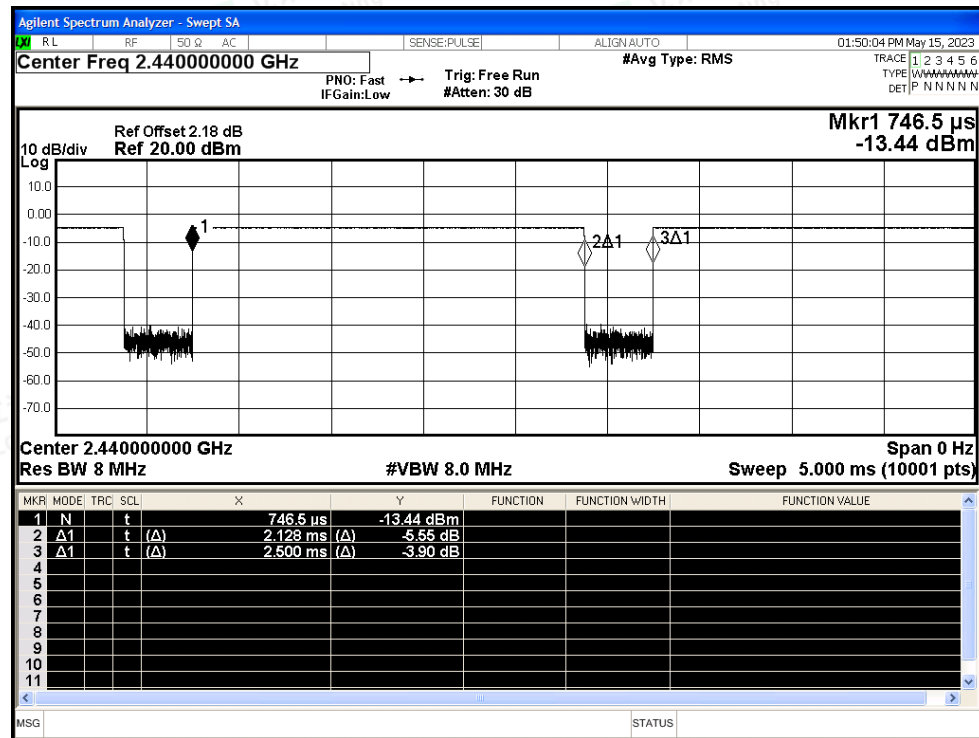


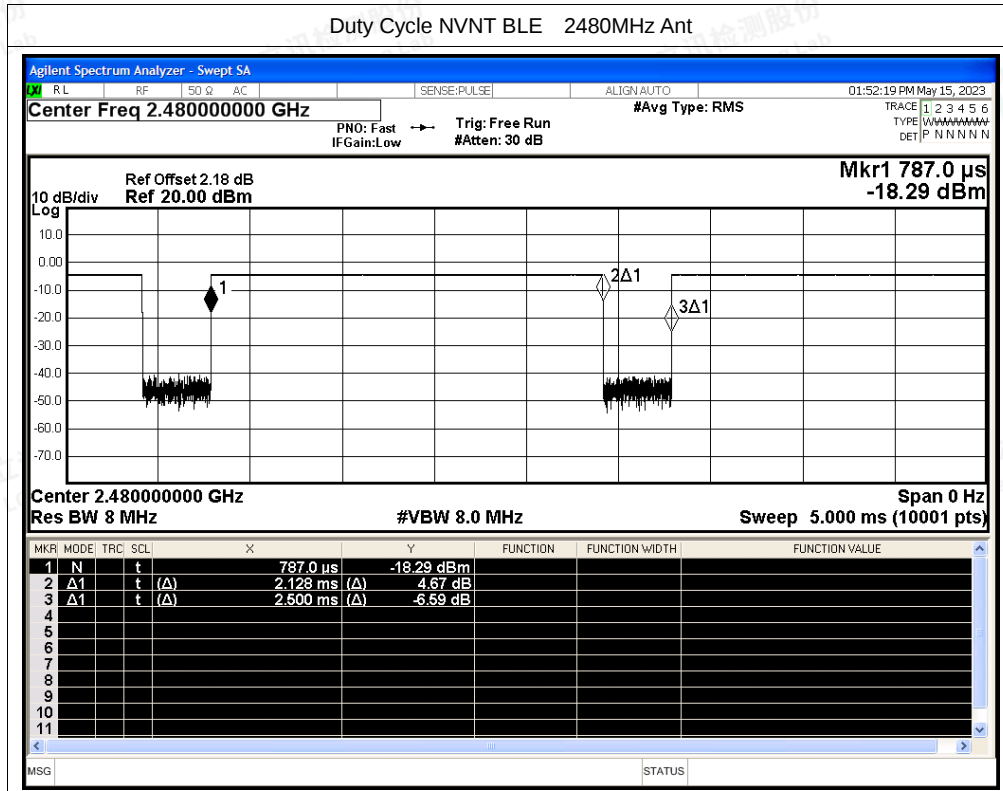
Test Graphs

Duty Cycle NVNT BLE 2402MHz Ant



Duty Cycle NVNT BLE 2440MHz Ant







A.7 Restrict Band

Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	BLE	2402	Ant	2310	-51.63	2	45.63	Peak	74	Pass
NVNT	BLE	2402	Ant	2310	-57.77	2	39.49	Average	54	Pass
NVNT	BLE	2402	Ant	2336.976	-47.09	2	50.17	Peak	74	Pass
NVNT	BLE	2402	Ant	2382.096	-57.26	2	40	Average	54	Pass
NVNT	BLE	2402	Ant	2390	-50.91	2	46.35	Peak	74	Pass
NVNT	BLE	2402	Ant	2390	-57.34	2	39.92	Average	54	Pass
NVNT	BLE	2480	Ant	2483.5	-51.2	2	46.06	Peak	74	Pass
NVNT	BLE	2480	Ant	2483.5	-56.5	2	40.76	Average	54	Pass
NVNT	BLE	2480	Ant	2495.776	-46.67	2	50.59	Peak	74	Pass
NVNT	BLE	2480	Ant	2483.512	-56.5	2	40.76	Average	54	Pass
NVNT	BLE	2480	Ant	2500	-50.01	2	47.25	Peak	74	Pass
NVNT	BLE	2480	Ant	2500	-57.15	2	40.11	Average	54	Pass

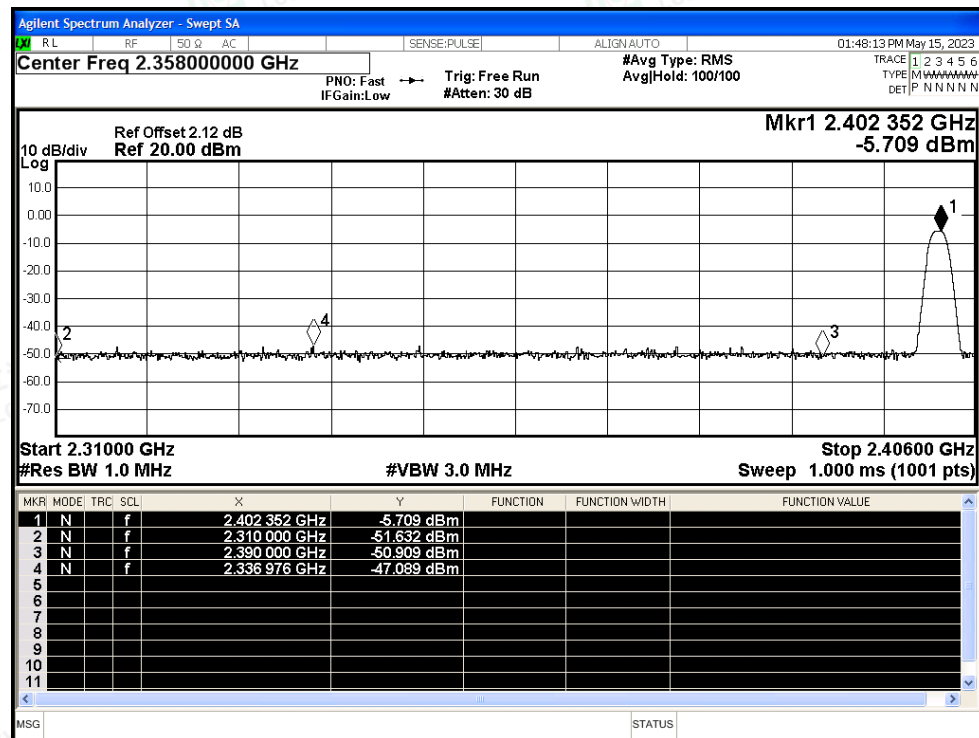


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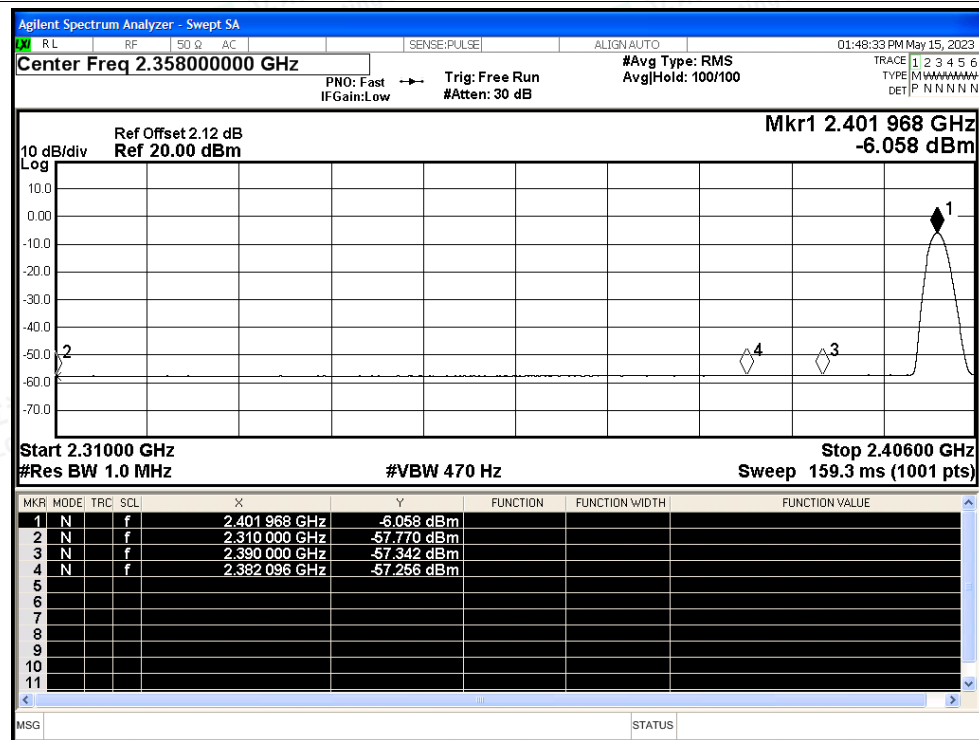


Test Graphs

Restrict Band NVNT BLE 2402MHz Ant Peak

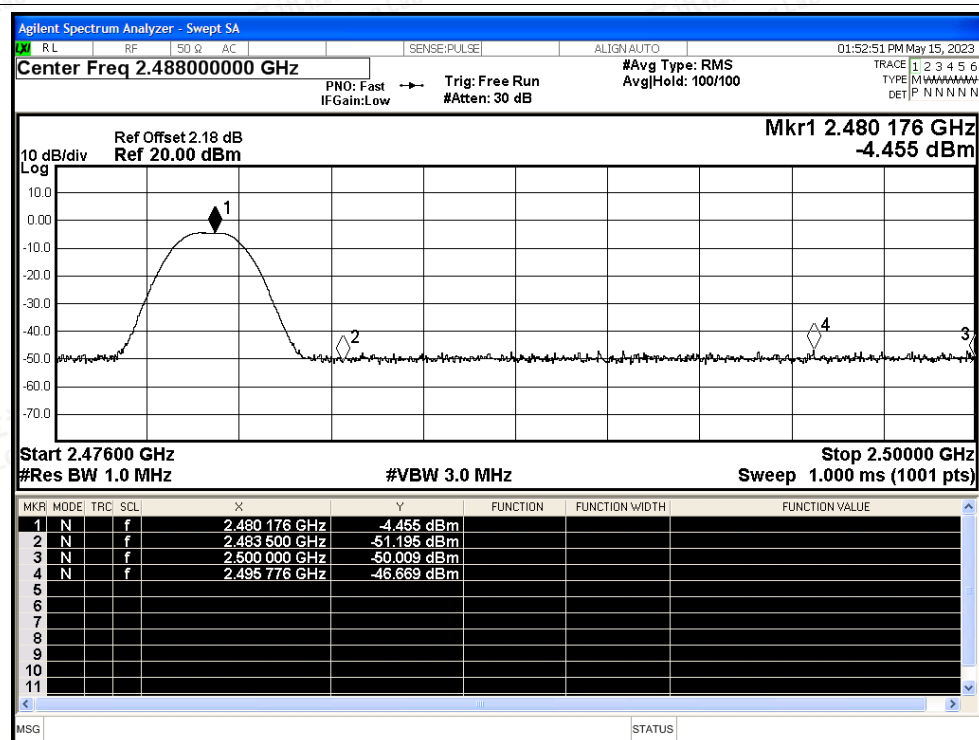


Restrict Band NVNT BLE 2402MHz Ant Average





Restrict Band NVNT BLE 2480MHz Ant Peak



Restrict Band NVNT BLE 2480MHz Ant Average

