

Appendix Test Data for BLE (Conducted Measurement)

Product Name: Wireless Mechanical Keyboard

Trade Mark: Keychron

Test Model: V2 Max

FCC ID: 2BGKB-V2MAX

Environmental Conditions

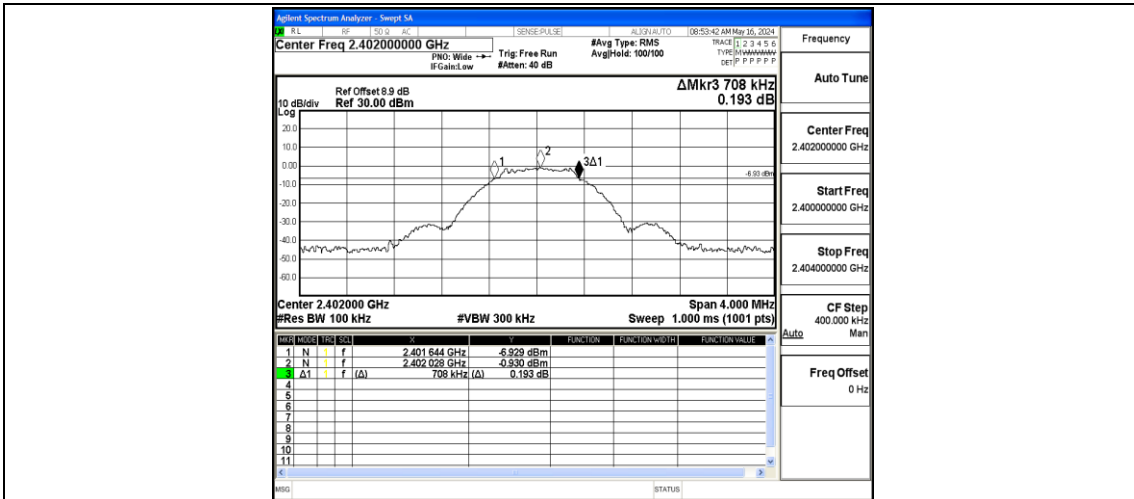
Temperature:	22.8° C
Relative Humidity:	56%
ATM Pressure:	100.0 kPa
Test Engineer:	Allen Lai
Supervised by:	Hugo Chen
NOTE	N/A

Appendix A: DTS Bandwidth

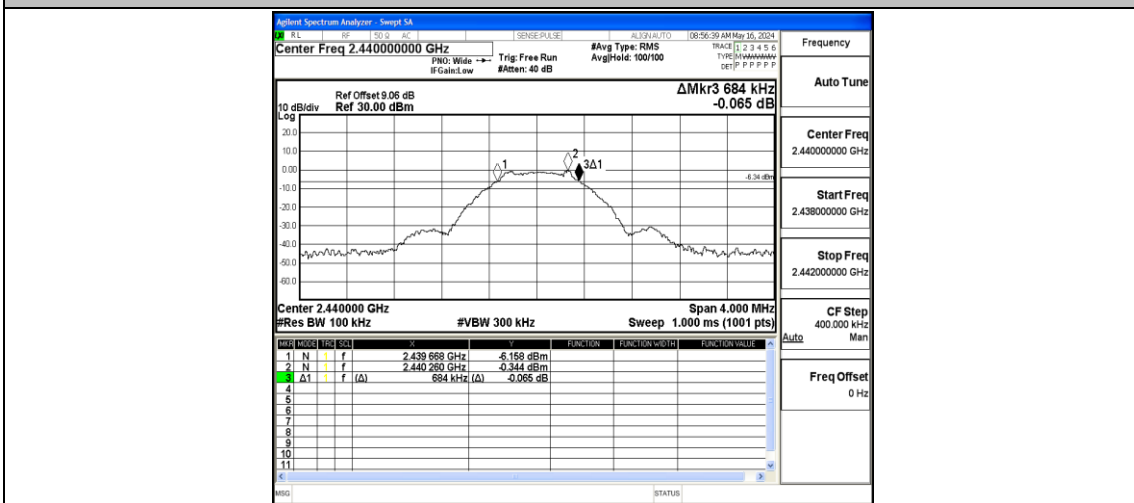
Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.708	2401.644	2402.352	0.5	PASS
BLE_1M	Ant1	2440	0.684	2439.668	2440.352	0.5	PASS
BLE_1M	Ant1	2480	0.696	2479.668	2480.364	0.5	PASS

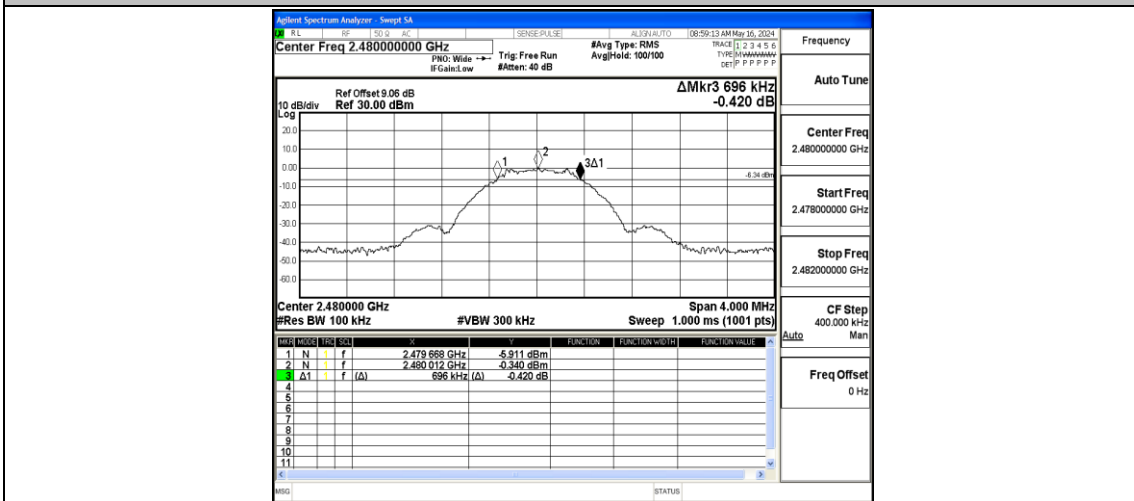
Test Graphs



BLE_1M-Ant1-240-PASS



BLE_1M-Ant1-244-PASS



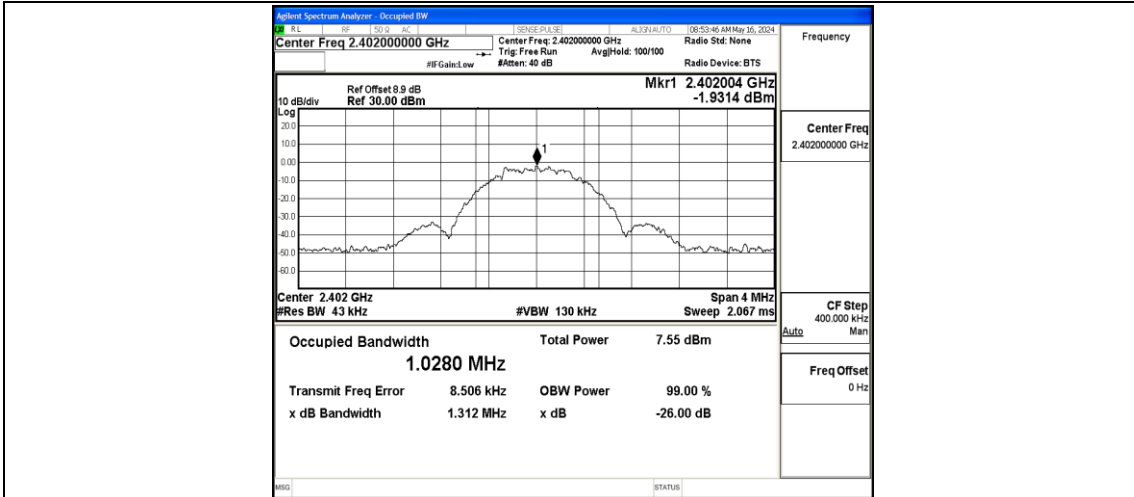
BLE_1M-Ant1-2480-PASS

Appendix B: Occupied Channel Bandwidth

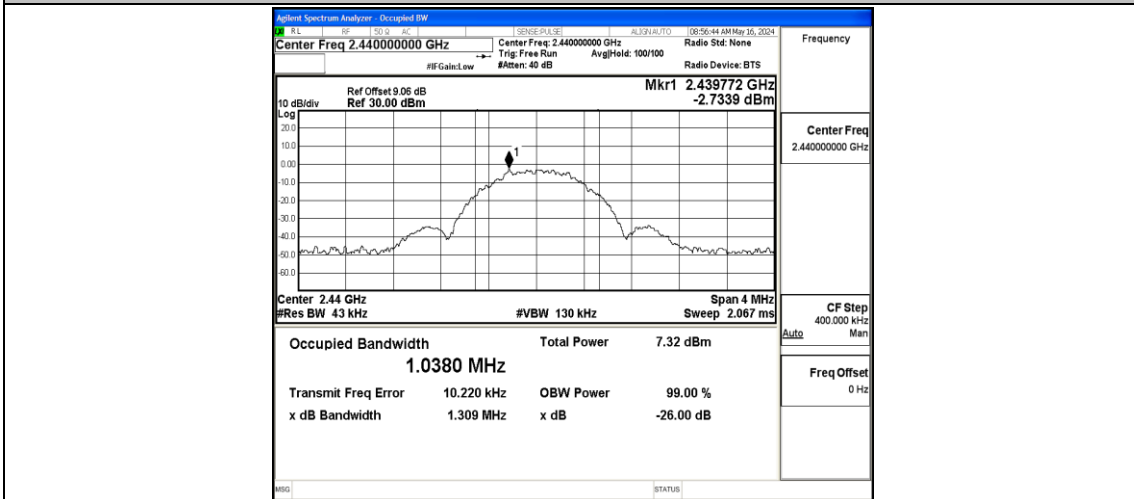
Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0280	2401.4945	2402.5225	---	---
BLE_1M	Ant1	2440	1.0380	2439.4912	2440.5292	---	---
BLE_1M	Ant1	2480	1.0355	2479.4887	2480.5242	---	---

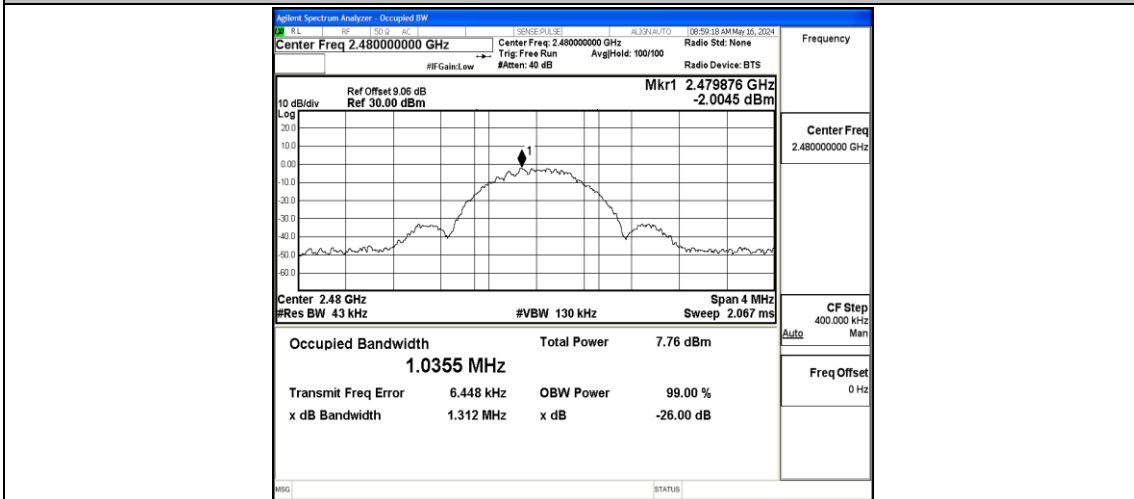
Test Graphs



BLE_1M-Ant1-2402



BLE_1M-Ant1-2440



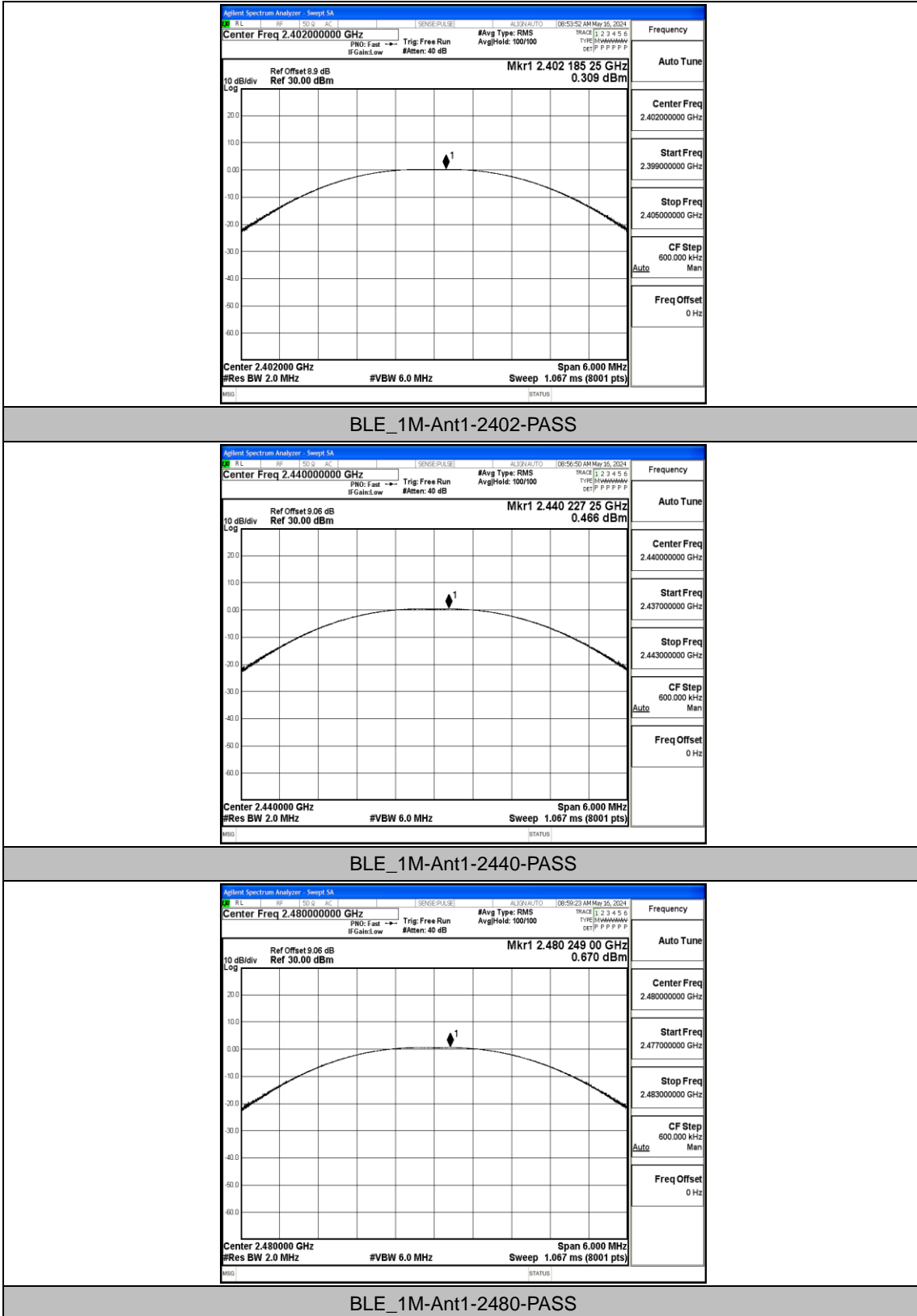
BLE_1M-Ant1-2480

Appendix C: Maximum peak conducted output power

Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0.31	≤30	PASS
BLE_1M	Ant1	2440	0.47	≤30	PASS
BLE_1M	Ant1	2480	0.67	≤30	PASS

Test Graphs Peak

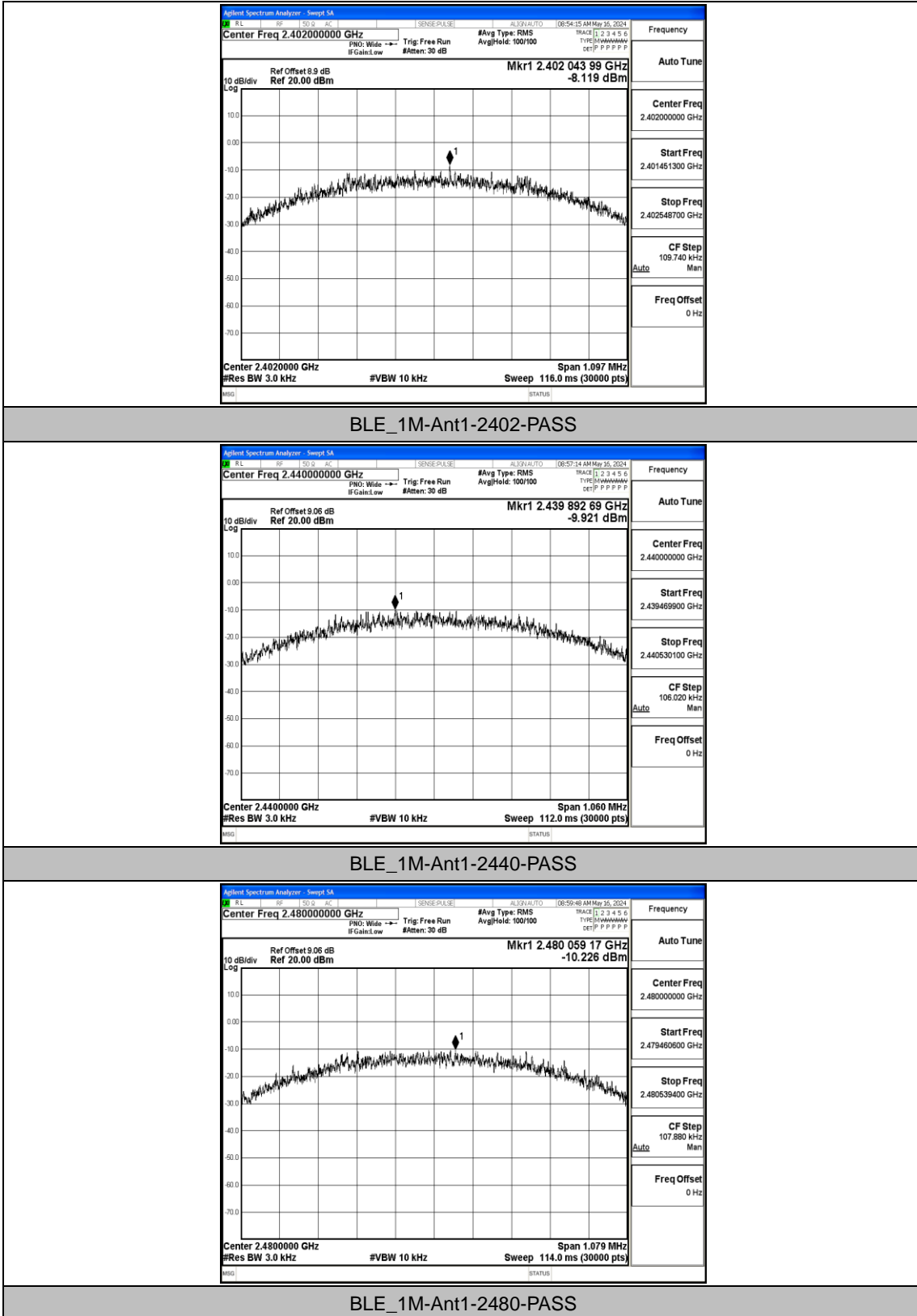


Appendix D: Maximum peak power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-8.12	≤8.00	PASS
BLE_1M	Ant1	2440	-9.92	≤8.00	PASS
BLE_1M	Ant1	2480	-10.23	≤8.00	PASS

Test Graphs

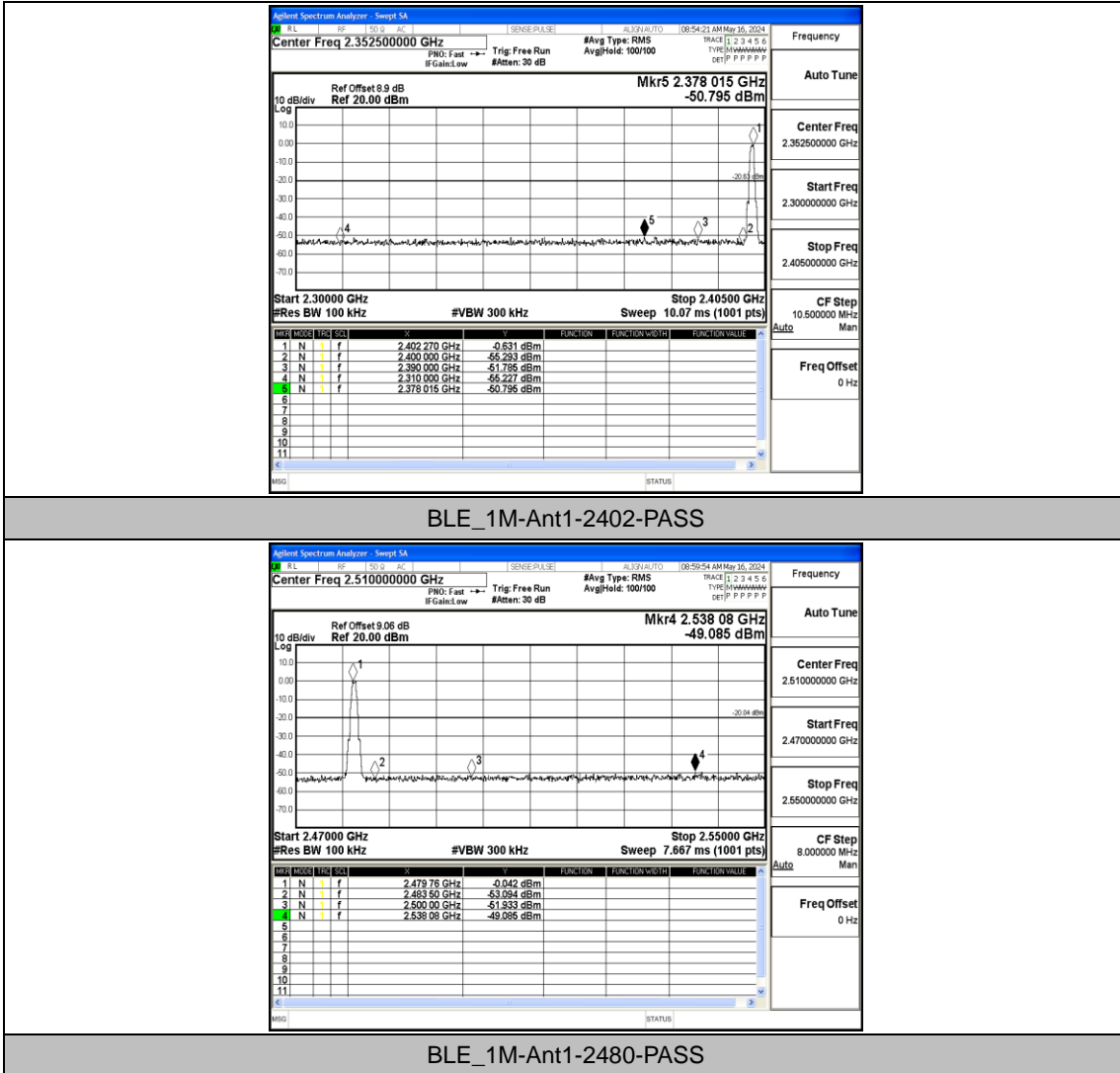


Appendix E: Band edge measurements

Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-0.63	-50.8	≤-20.63	PASS
BLE_1M	Ant1	High	2480	-0.04	-49.09	≤-20.04	PASS

Test Graphs

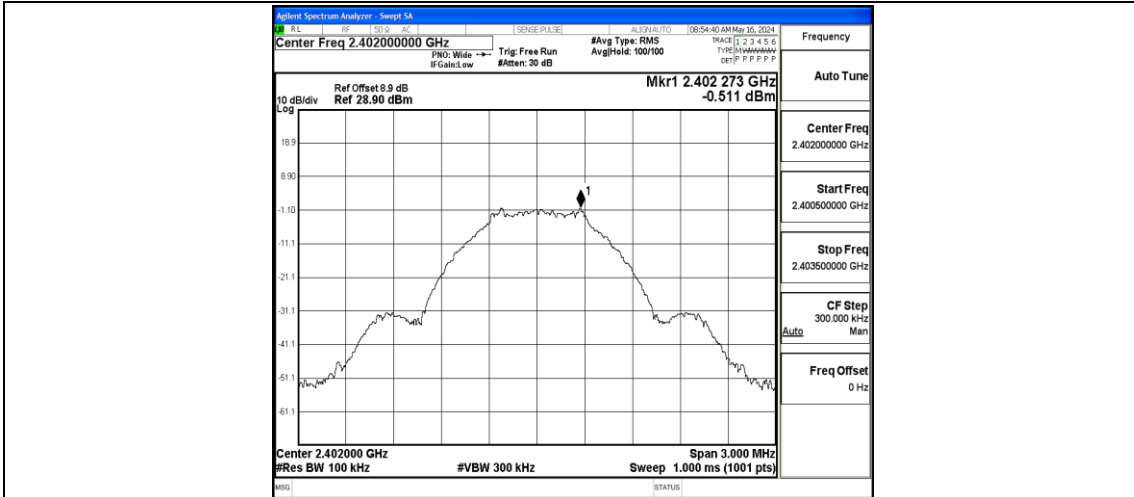


Appendix F: Conducted Spurious Emission

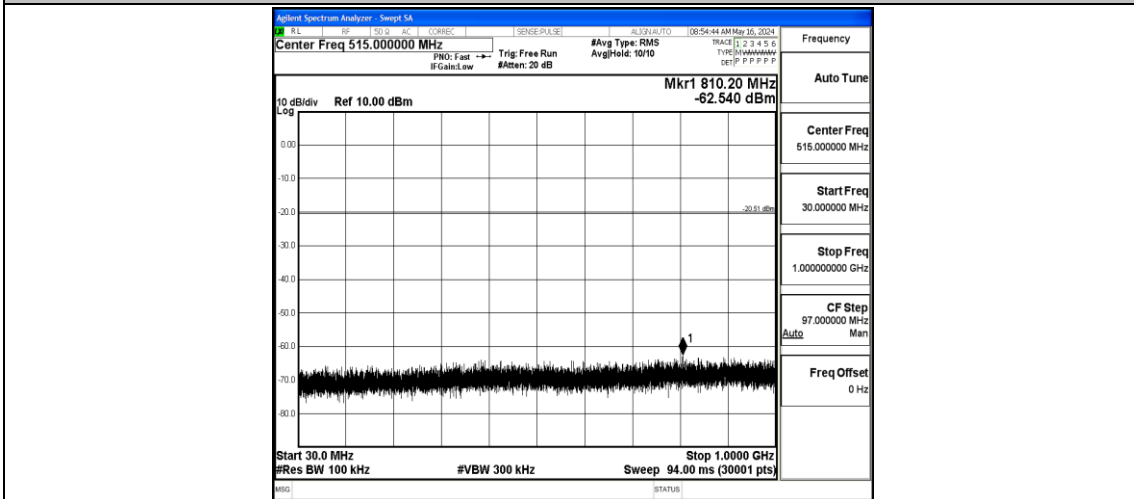
Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	-0.51	-0.51	---	PASS
BLE_1M	Ant1	2402	30~1000	-0.51	-62.54	≤-20.51	PASS
BLE_1M	Ant1	2402	1000~26500	-0.51	-48.43	≤-20.51	PASS
BLE_1M	Ant1	2440	0~Reference	0.06	0.06	---	PASS
BLE_1M	Ant1	2440	30~1000	0.06	-62.25	≤-19.94	PASS
BLE_1M	Ant1	2440	1000~26500	0.06	-49.61	≤-19.94	PASS
BLE_1M	Ant1	2480	0~Reference	-0.06	-0.06	---	PASS
BLE_1M	Ant1	2480	30~1000	-0.06	-62.77	≤-20.06	PASS
BLE_1M	Ant1	2480	1000~26500	-0.06	-48.26	≤-20.06	PASS

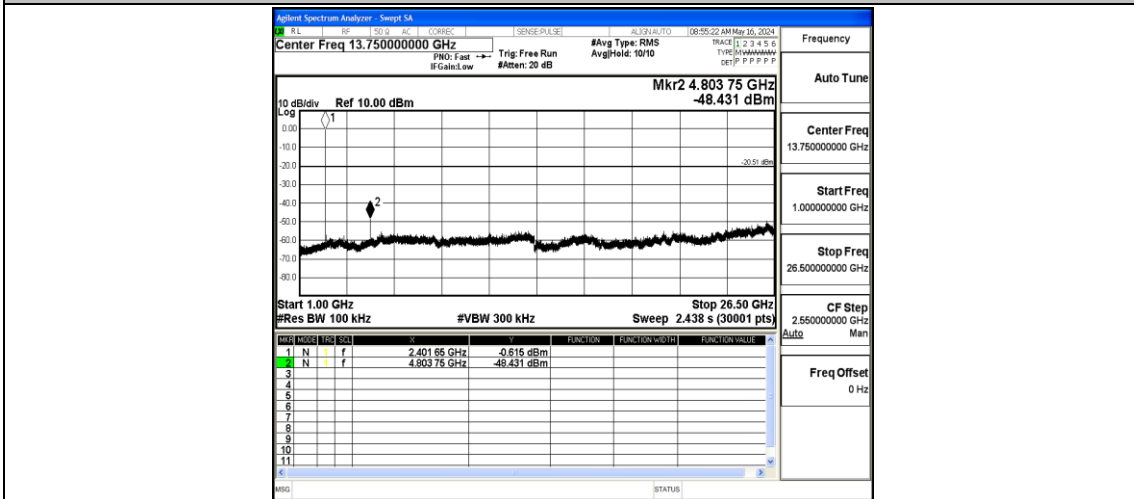
Test Graphs



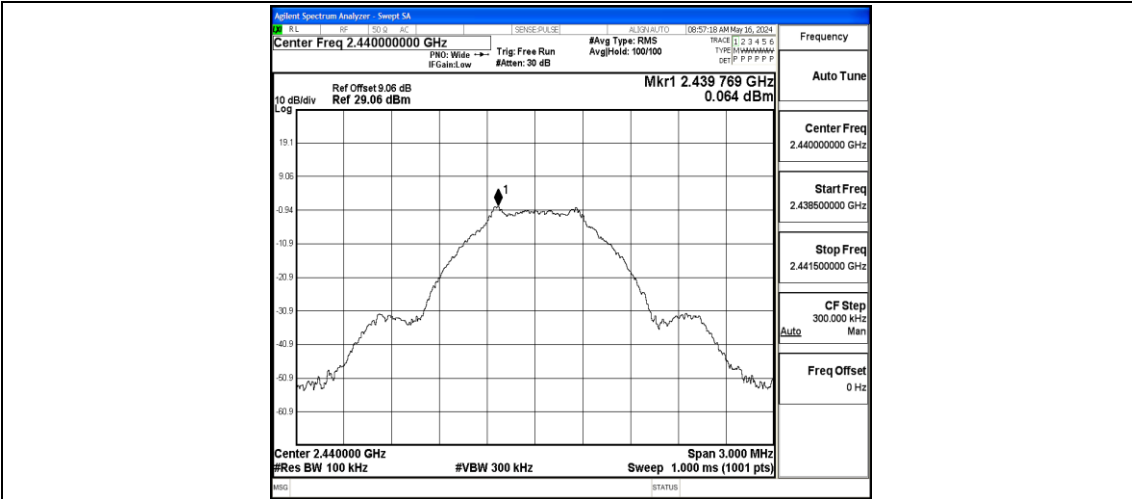
BLE_1M-Ant1-2402-0~Reference-PASS



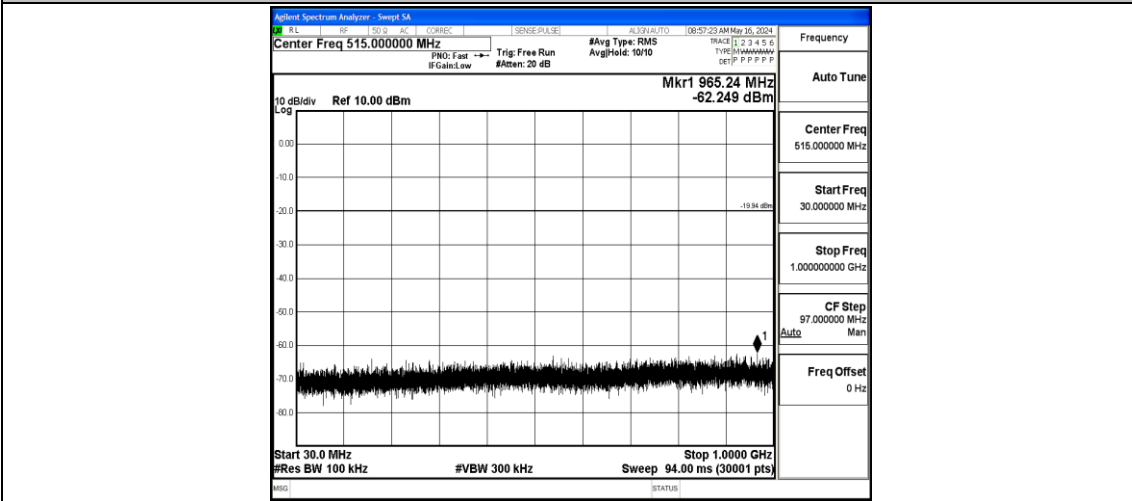
BLE_1M-Ant1-2402-30~1000-PASS



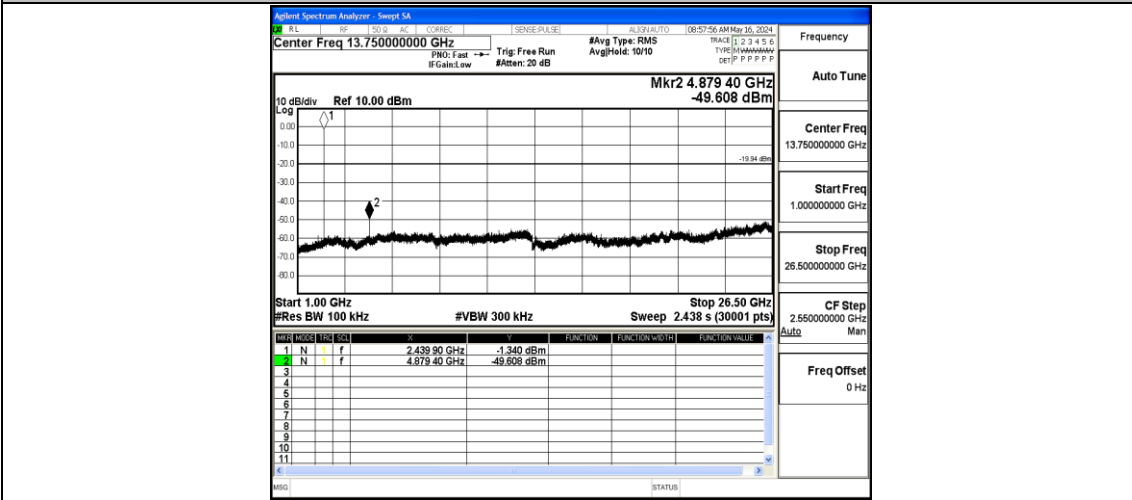
BLE_1M-Ant1-2402-1000~26500-PASS



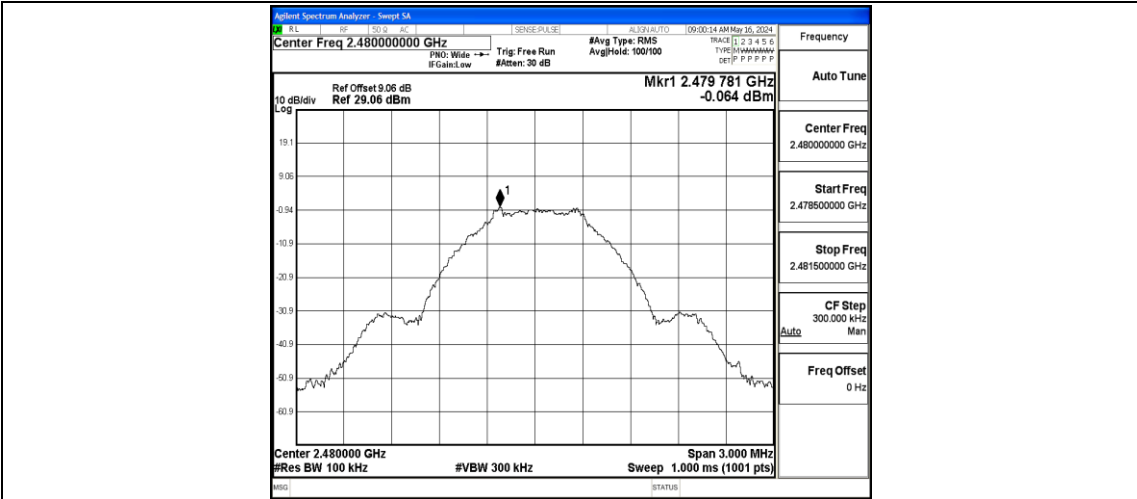
BLE_1M-Ant1-2440-0~Reference-PASS



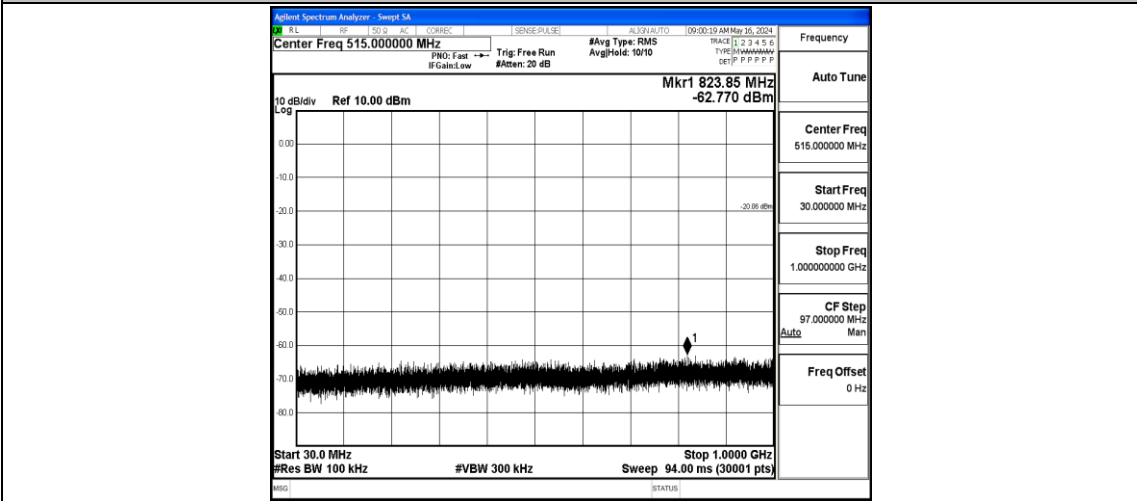
BLE_1M-Ant1-2440-30~1000-PASS



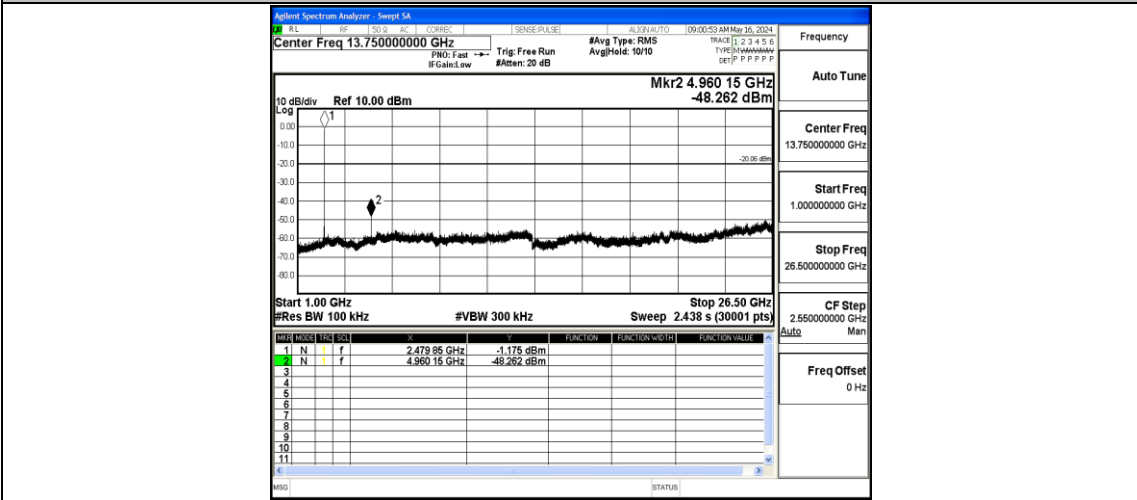
BLE_1M-Ant1-2440-1000~26500-PASS



BLE_1M-Ant1-2480-0~Reference-PASS



BLE_1M-Ant1-2480-30~1000-PASS



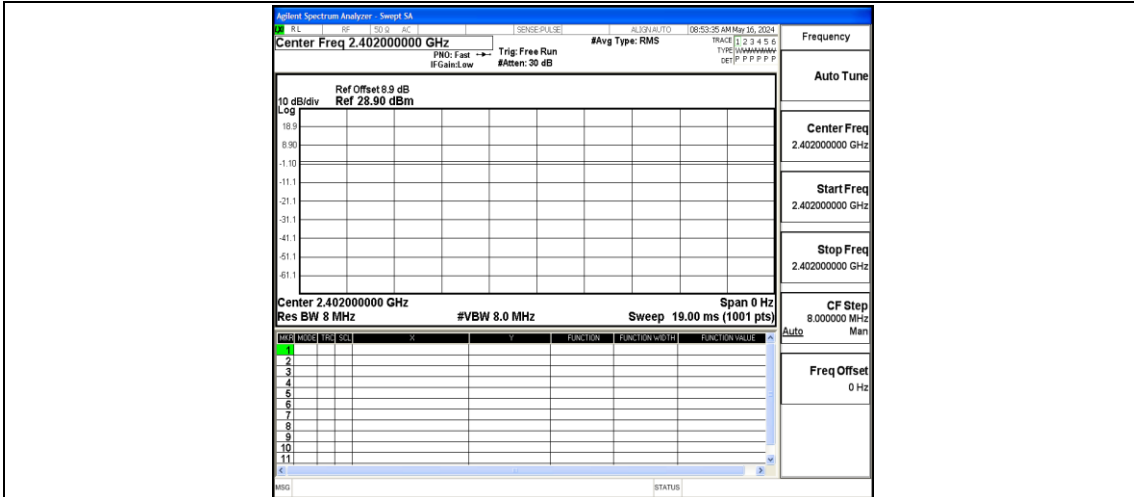
BLE_1M-Ant1-2480-1000~26500-PASS

Appendix G: Duty Cycle

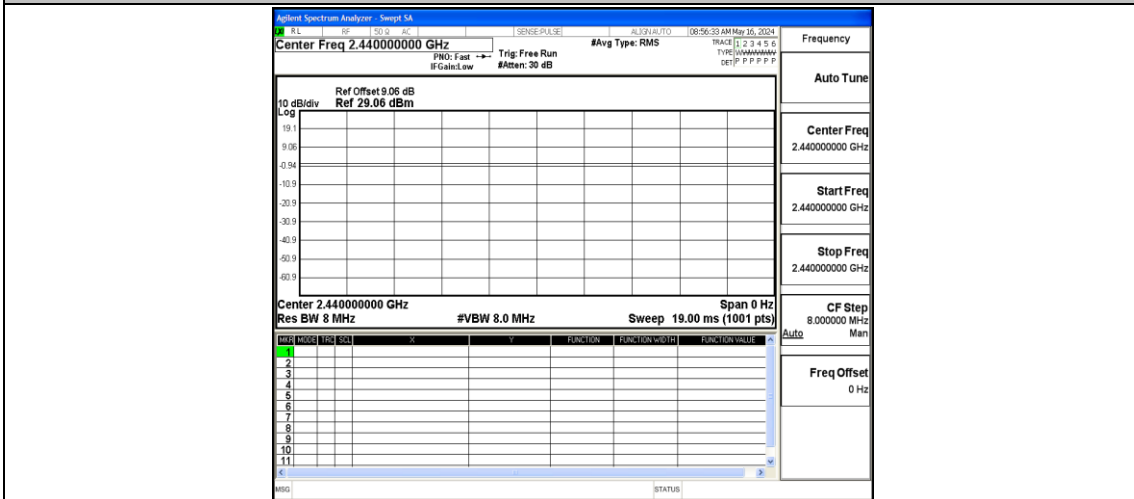
Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	19.00	19.00	100.00	0.00
BLE_1M	Ant1	2440	19.00	19.00	100.00	0.00
BLE_1M	Ant1	2480	19.00	19.00	100.00	0.00

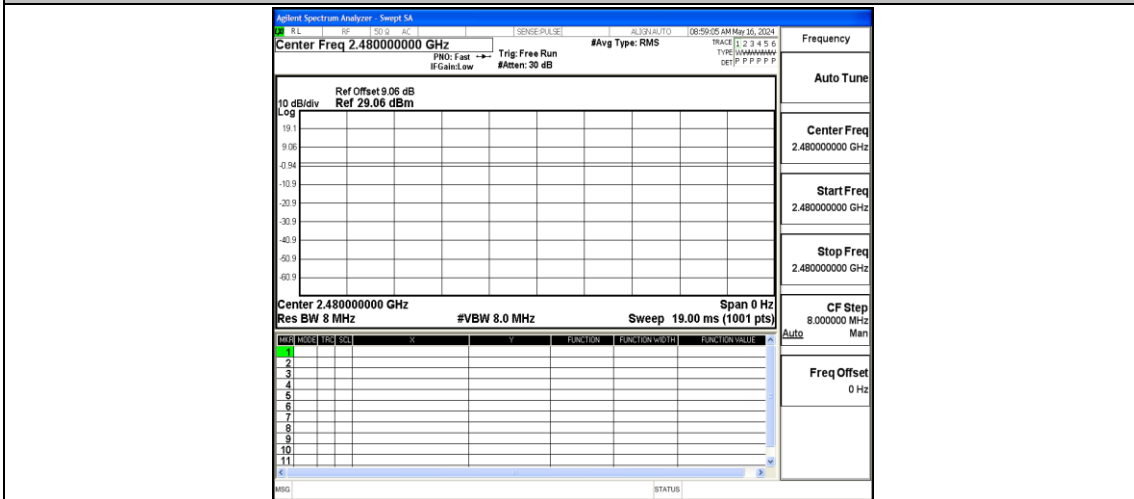
Test Graphs



NTNV-BLE_1M-Ant1-2402



NTNV-BLE_1M-Ant1-2440



NTNV-BLE_1M-Ant1-2480