

Appendix Test Data for BLE (Conducted Measurement)

Product Name: Wireless Mechanical Keyboard

Trade Mark: Keychron

Test Model: L1

FCC ID: 2BGKB-L1

Environmental Conditions

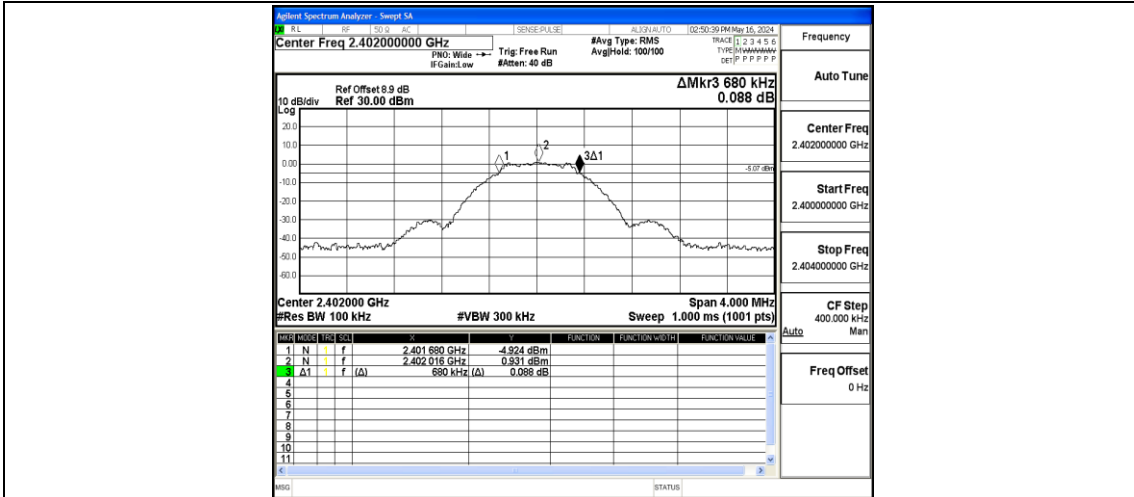
Temperature:	22.8° C
Relative Humidity:	56%
ATM Pressure:	100.0 kPa
Test Engineer:	Allen Lai
Supervised by:	Hugo Chen
NOTE	N/A

Appendix A: DTS Bandwidth

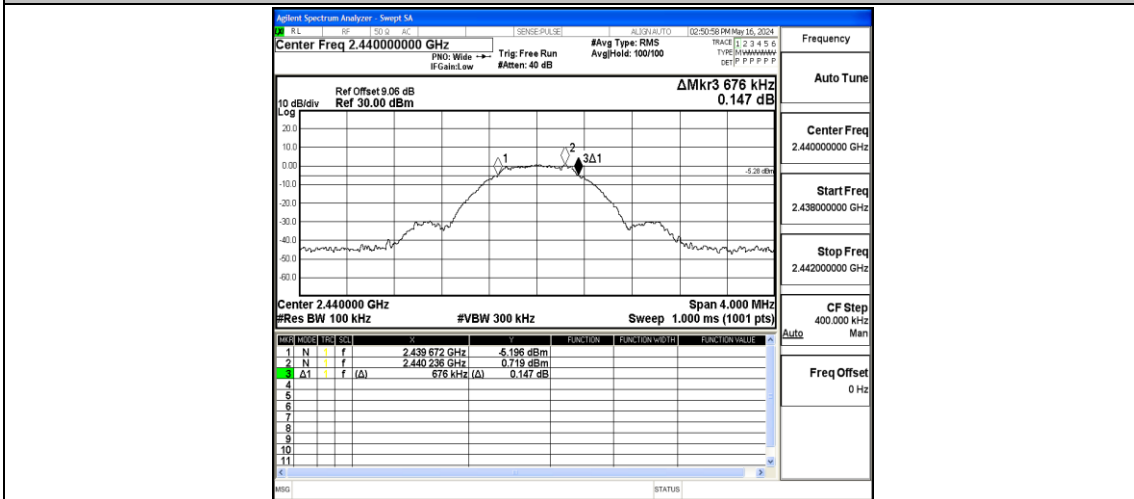
Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.680	2401.680	2402.360	0.5	PASS
BLE_1M	Ant1	2440	0.676	2439.672	2440.348	0.5	PASS
BLE_1M	Ant1	2480	0.708	2479.660	2480.368	0.5	PASS

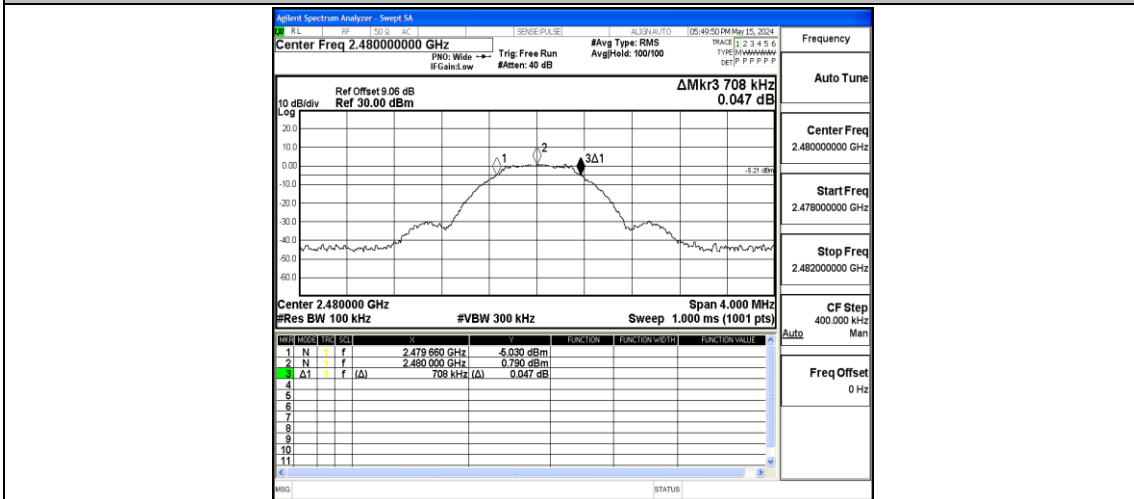
Test Graphs



BLE_1M-Ant1-240-PASS



BLE_1M-Ant1-244-PASS



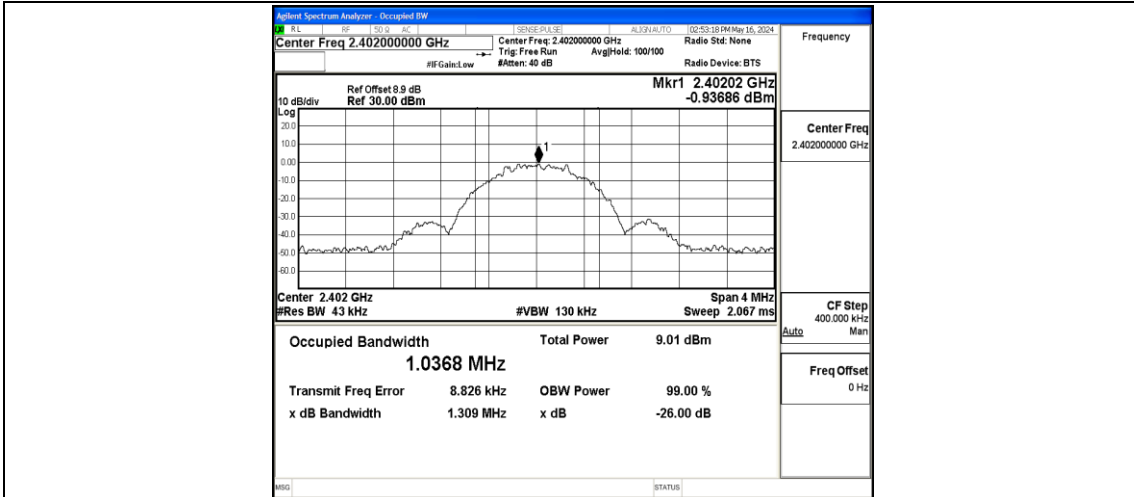
BLE_1M-Ant1-2480-PASS

Appendix B: Occupied Channel Bandwidth

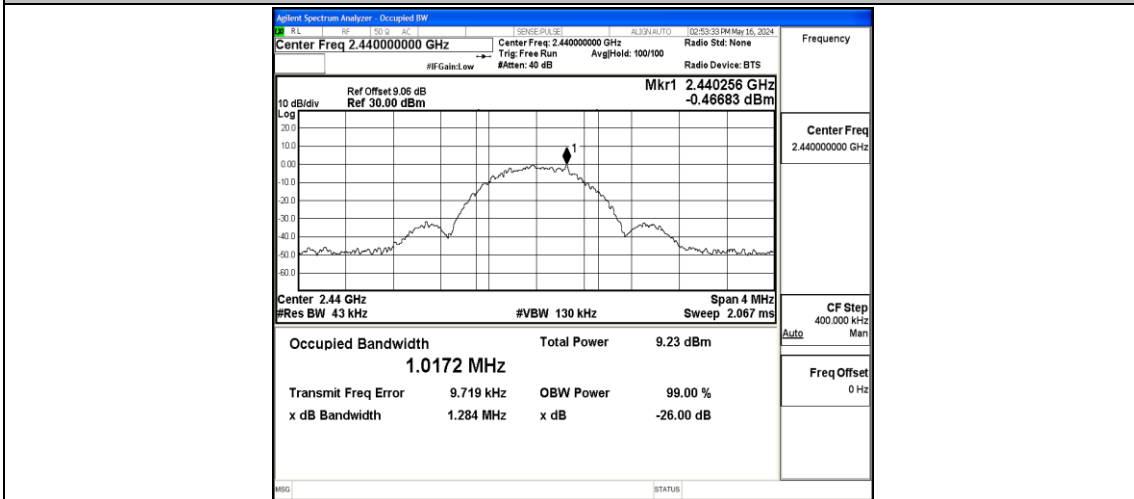
Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0368	2401.4904	2402.5272	---	---
BLE_1M	Ant1	2440	1.0172	2439.5011	2440.5183	---	---
BLE_1M	Ant1	2480	1.0280	2479.4971	2480.5251	---	---

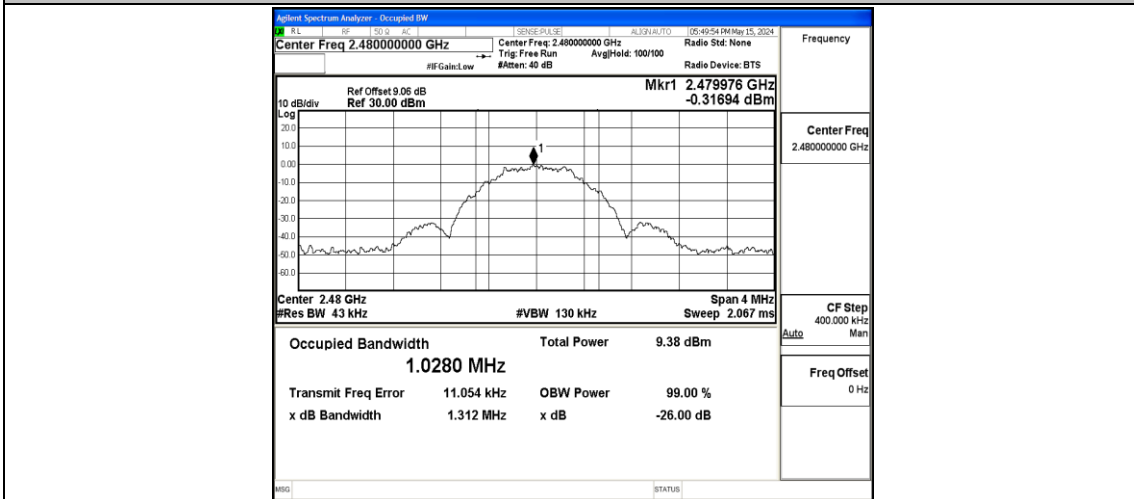
Test Graphs



BLE_1M-Ant1-2402



BLE_1M-Ant1-2440



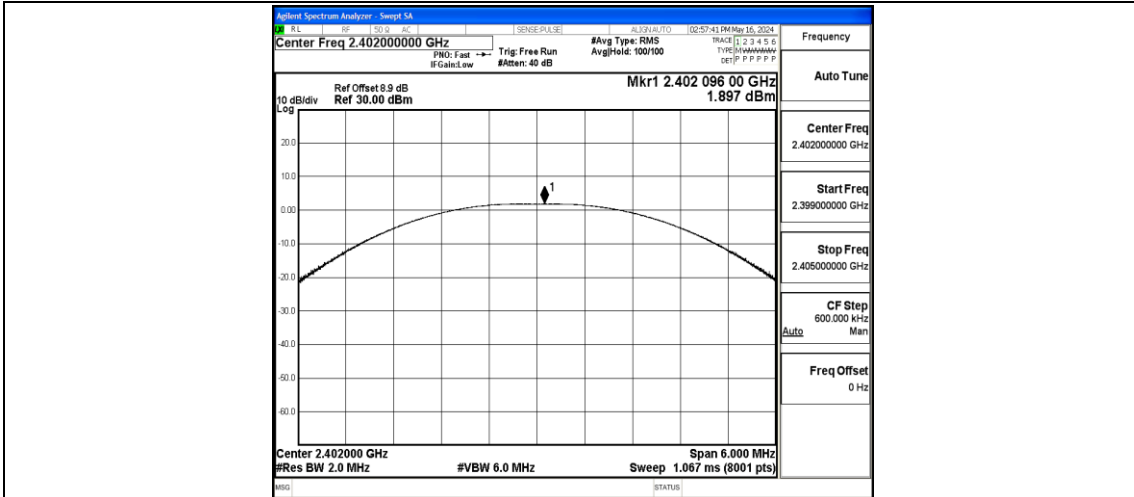
BLE_1M-Ant1-2480

Appendix C: Maximum peak conducted output power

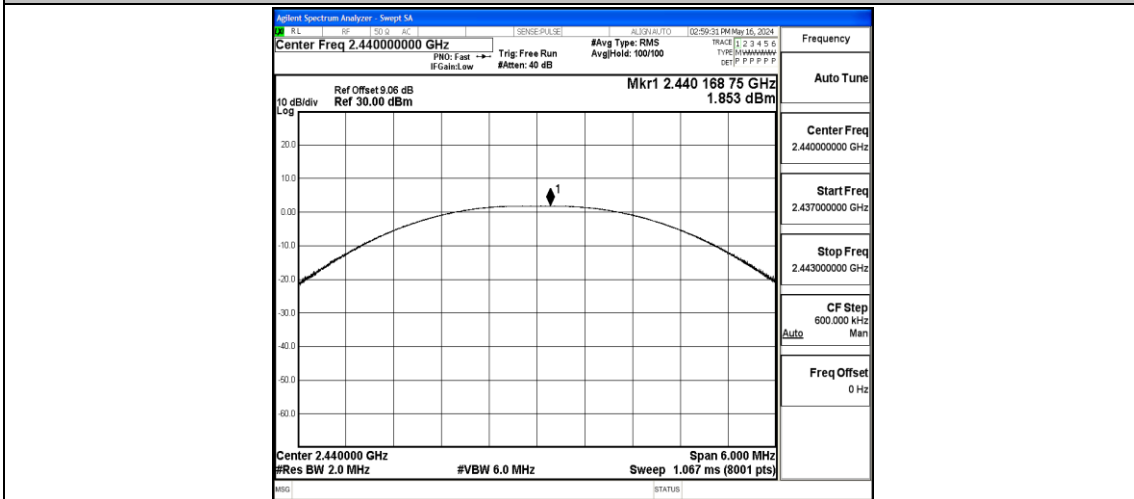
Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	1.90	≤30	PASS
BLE_1M	Ant1	2440	1.85	≤30	PASS
BLE_1M	Ant1	2480	2.05	≤30	PASS

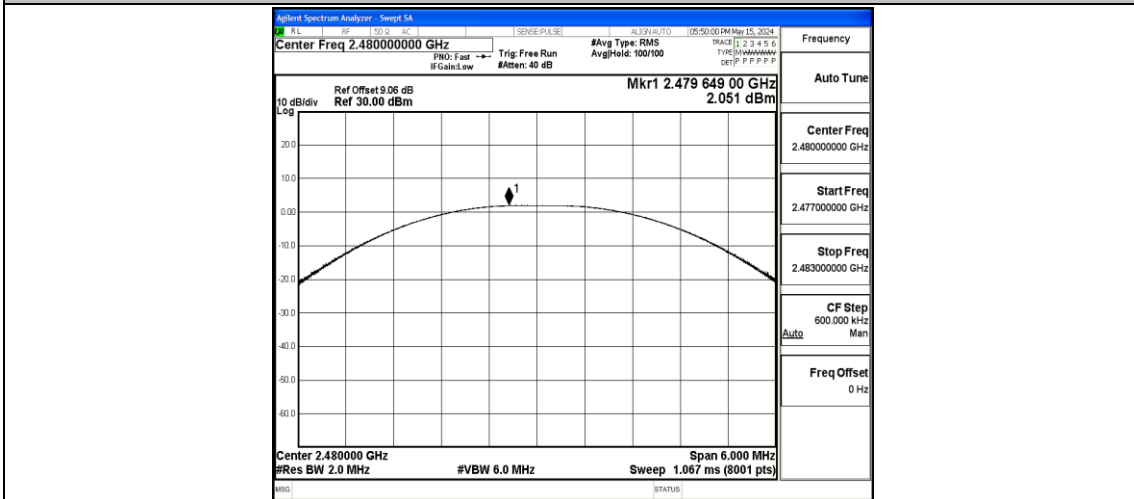
Test Graphs Peak



BLE_1M-Ant1-240-PASS



BLE_1M-Ant1-244-PASS



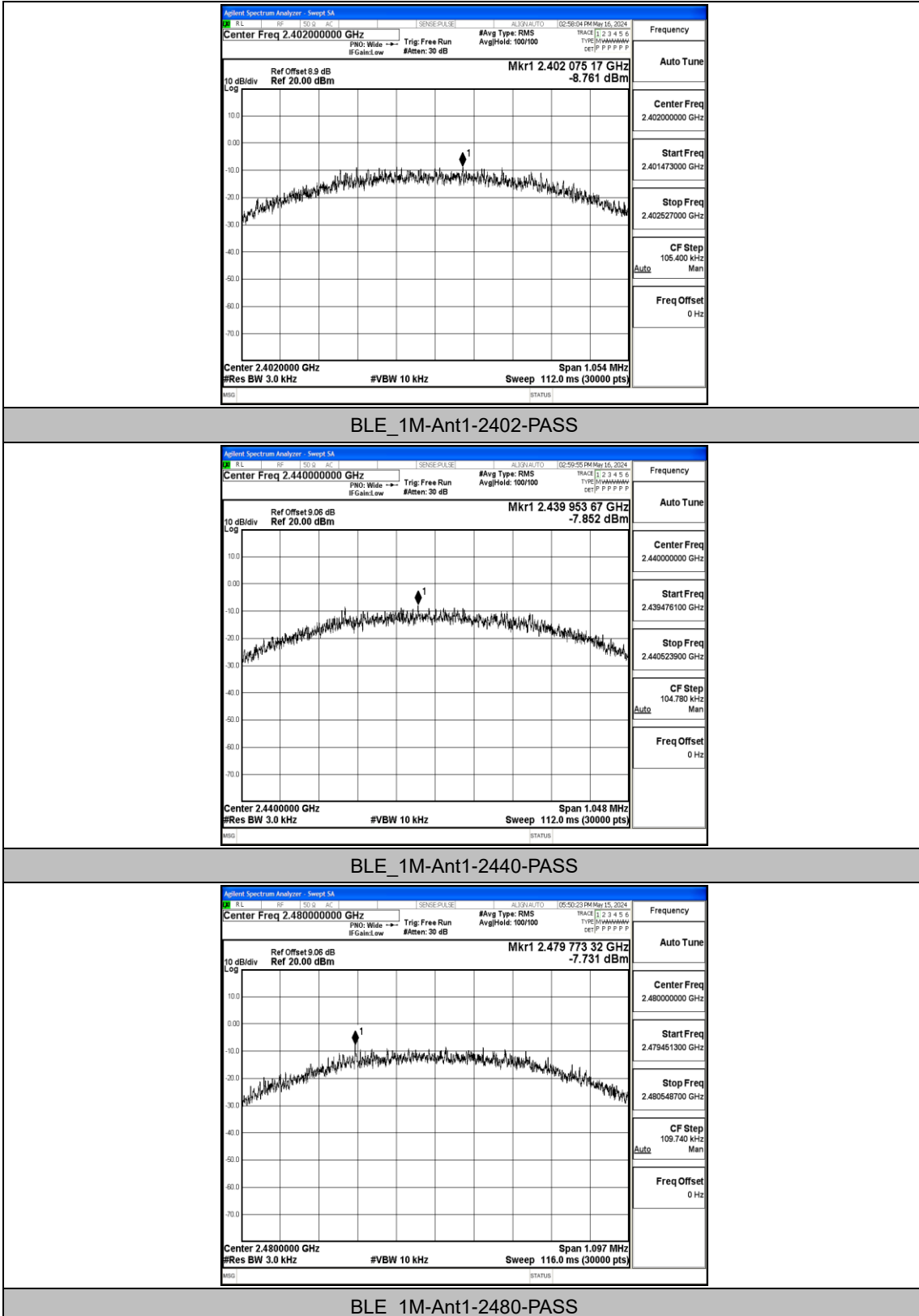
BLE_1M-Ant1-248-PASS

Appendix D: Maximum peak power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-8.76	≤8.00	PASS
BLE_1M	Ant1	2440	-7.85	≤8.00	PASS
BLE_1M	Ant1	2480	-7.73	≤8.00	PASS

Test Graphs

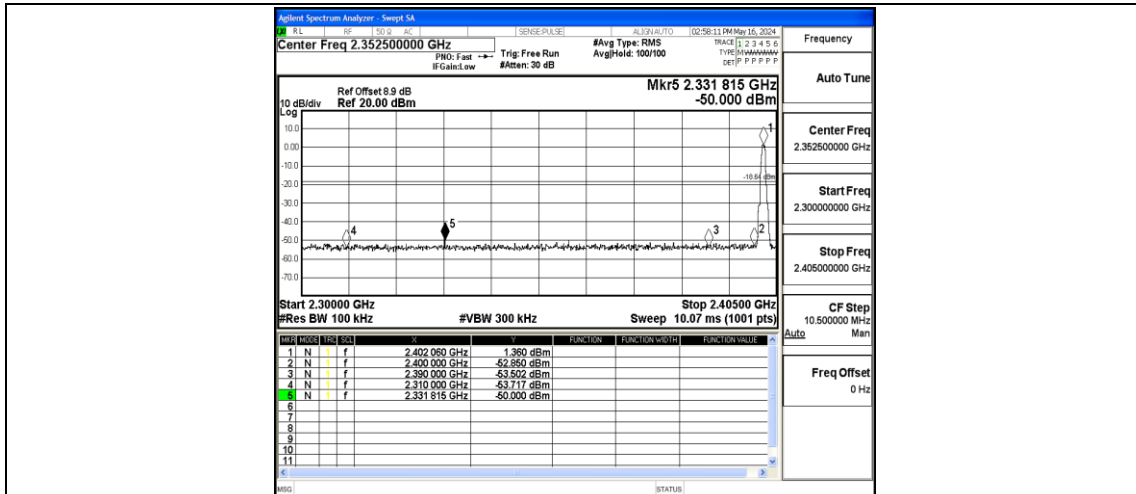


Appendix E: Band edge measurements

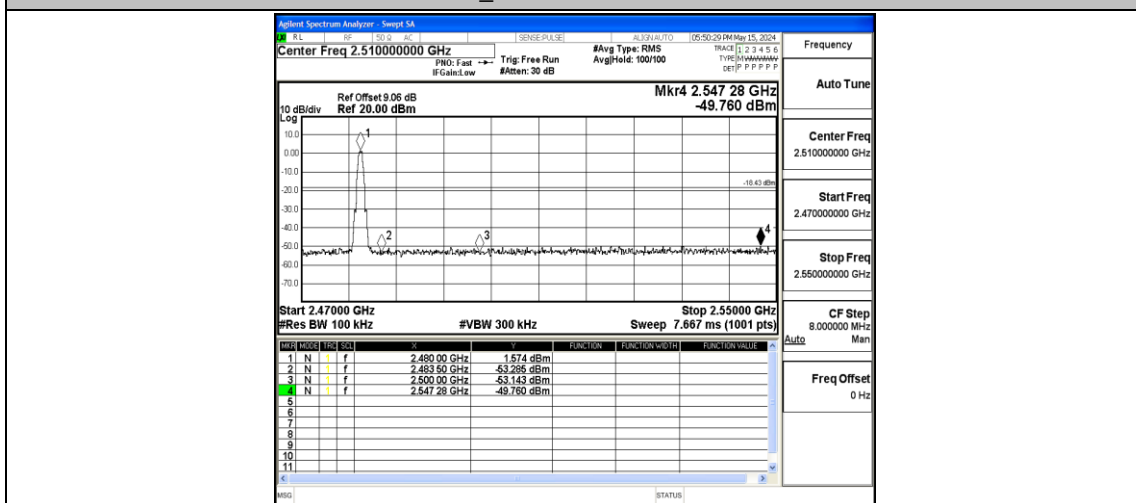
Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	1.36	-50	≤-18.64	PASS
BLE_1M	Ant1	High	2480	1.57	-49.76	≤-18.43	PASS

Test Graphs



BLE_1M-Ant1-240-PASS



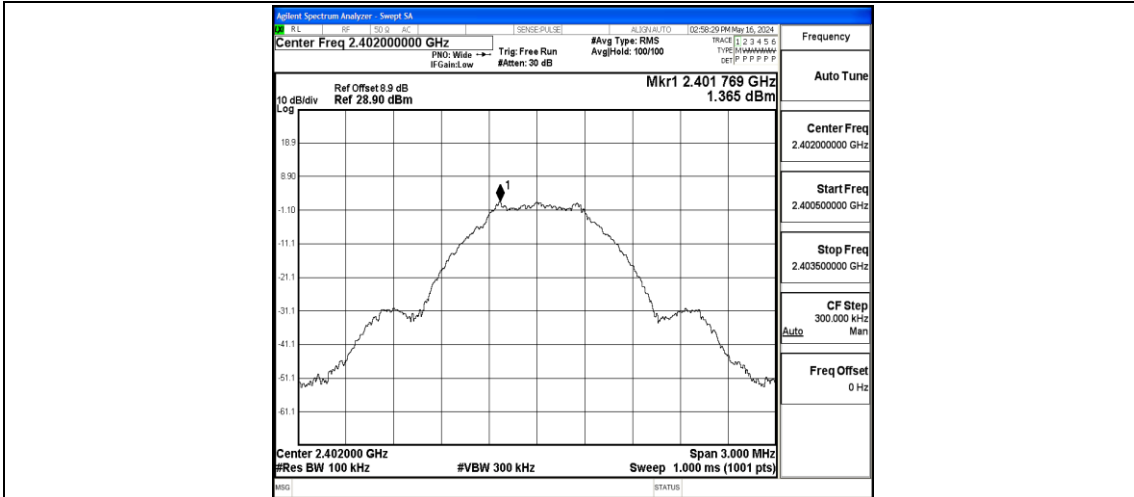
BLE_1M-Ant1-2480-PASS

Appendix F: Conducted Spurious Emission

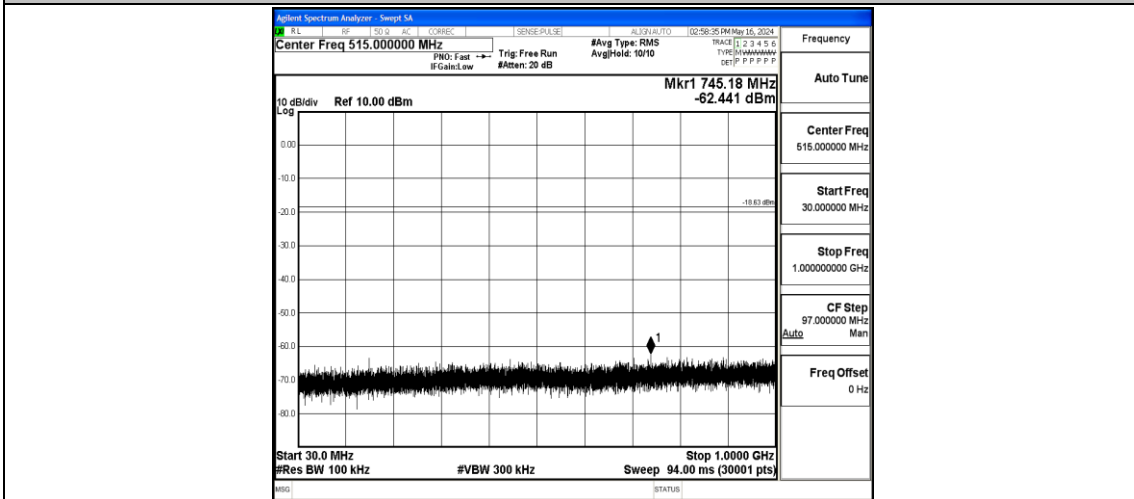
Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	1.37	1.37	---	PASS
BLE_1M	Ant1	2402	30~1000	1.37	-62.44	≤-18.63	PASS
BLE_1M	Ant1	2402	1000~26500	1.37	-42.18	≤-18.63	PASS
BLE_1M	Ant1	2440	0~Reference	0.84	0.84	---	PASS
BLE_1M	Ant1	2440	30~1000	0.84	-63.12	≤-19.16	PASS
BLE_1M	Ant1	2440	1000~26500	0.84	-44.54	≤-19.16	PASS
BLE_1M	Ant1	2480	0~Reference	1.19	1.19	---	PASS
BLE_1M	Ant1	2480	30~1000	1.19	-61.37	≤-18.81	PASS
BLE_1M	Ant1	2480	1000~26500	1.19	-46.35	≤-18.81	PASS

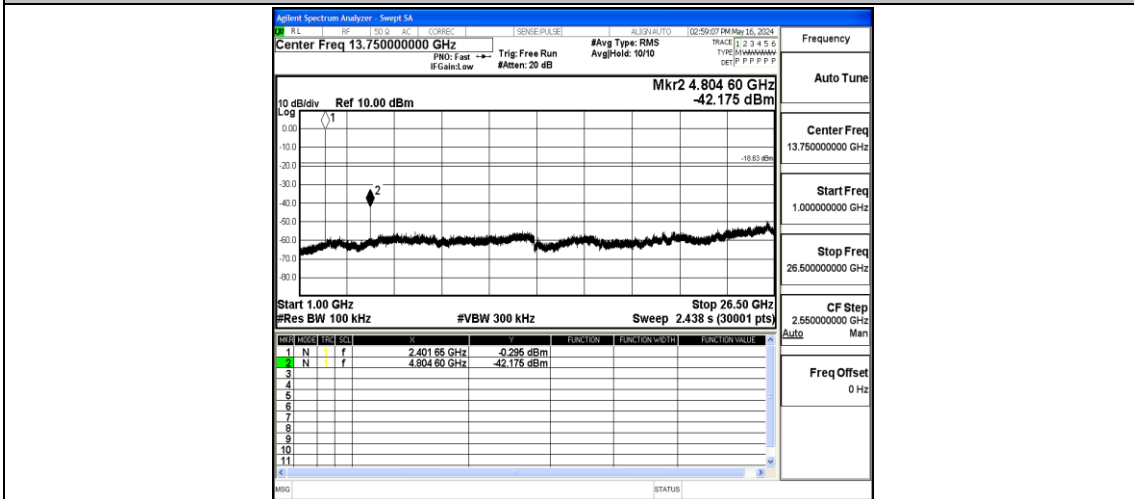
Test Graphs



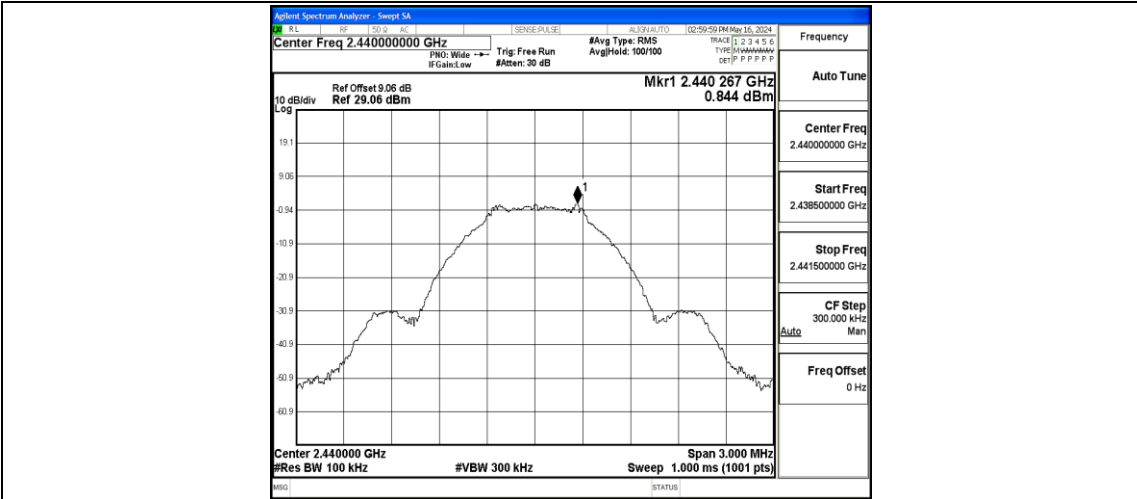
BLE_1M-Ant1-2402-0~Reference-PASS



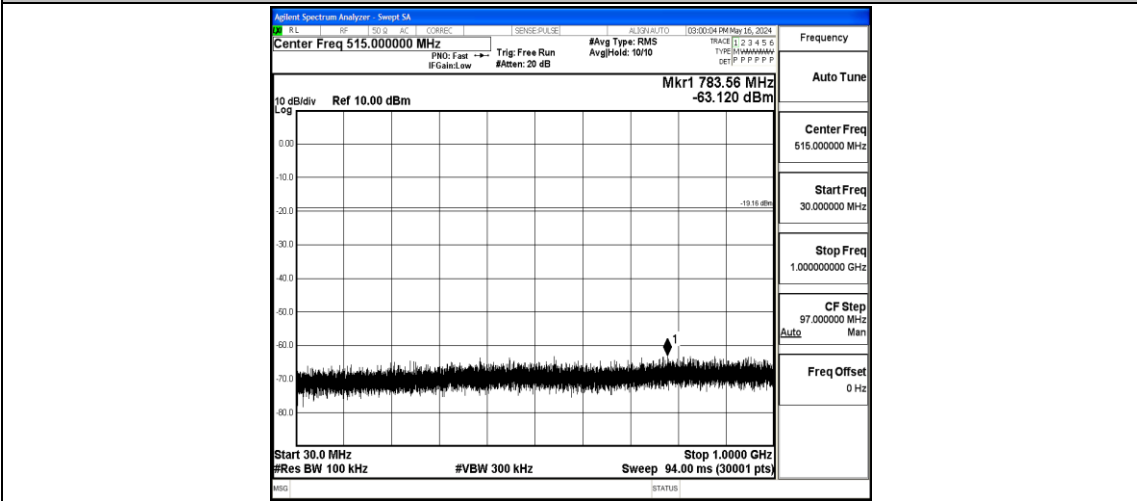
BLE_1M-Ant1-2402-30~1000-PASS



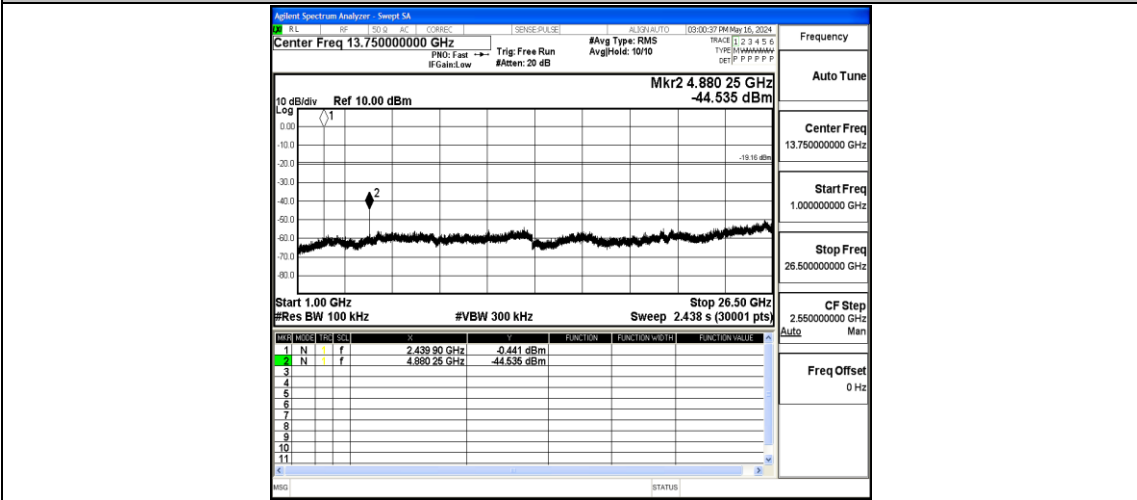
BLE_1M-Ant1-2402-1000~26500-PASS



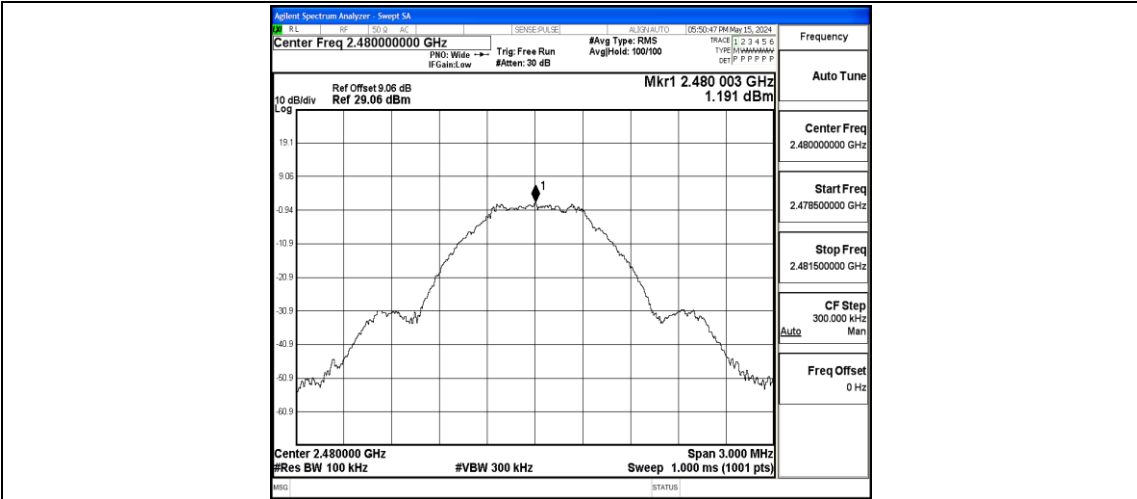
BLE_1M-Ant1-2440-0~Reference-PASS



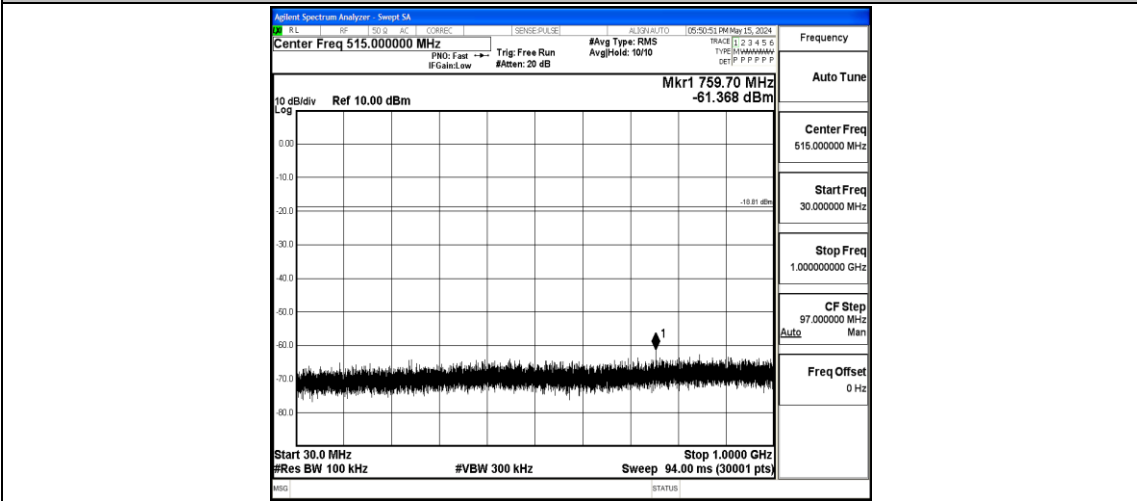
BLE_1M-Ant1-2440-30~1000-PASS



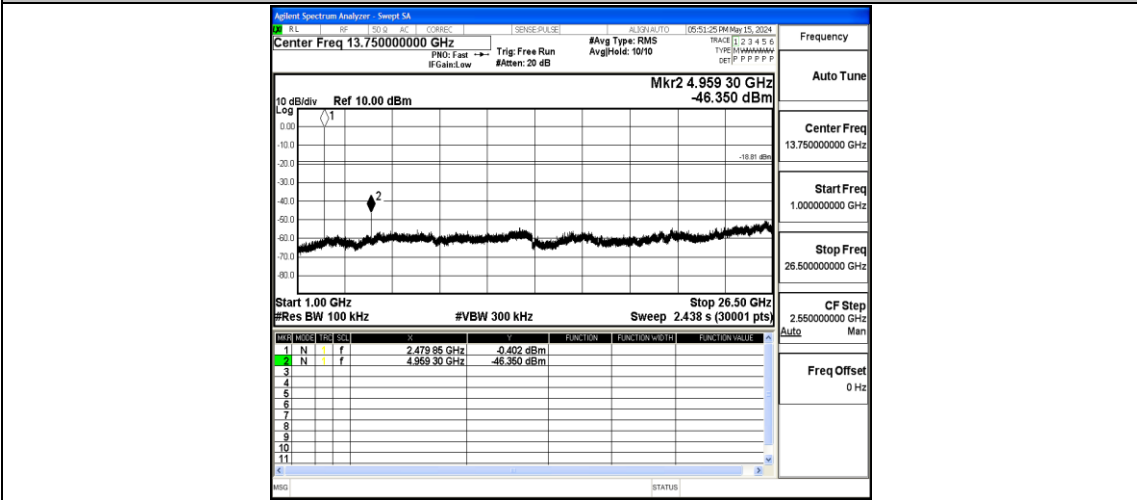
BLE_1M-Ant1-2440-1000~26500-PASS



BLE_1M-Ant1-2480-0~Reference-PASS



BLE_1M-Ant1-2480-30~1000-PASS



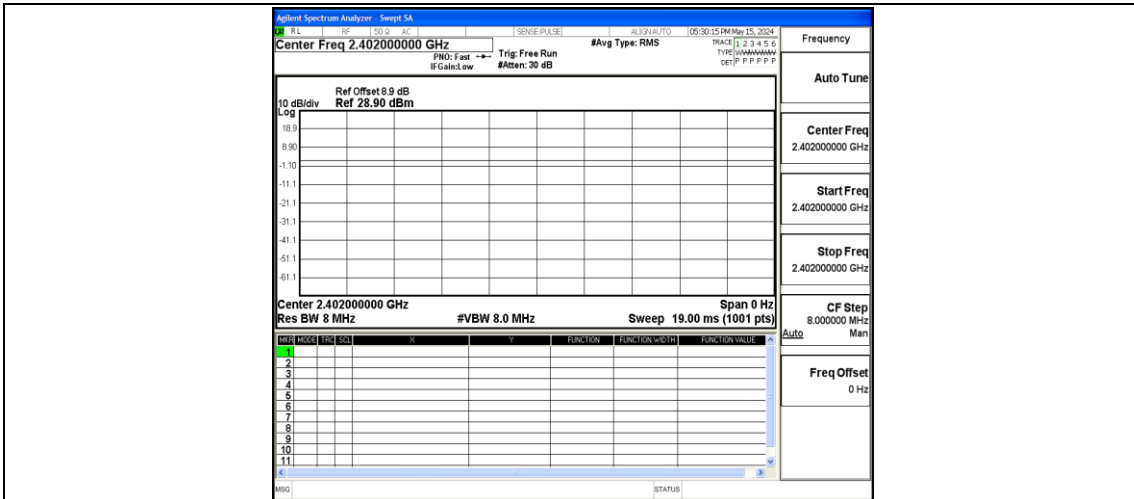
BLE_1M-Ant1-2480-1000~26500-PASS

Appendix G: Duty Cycle

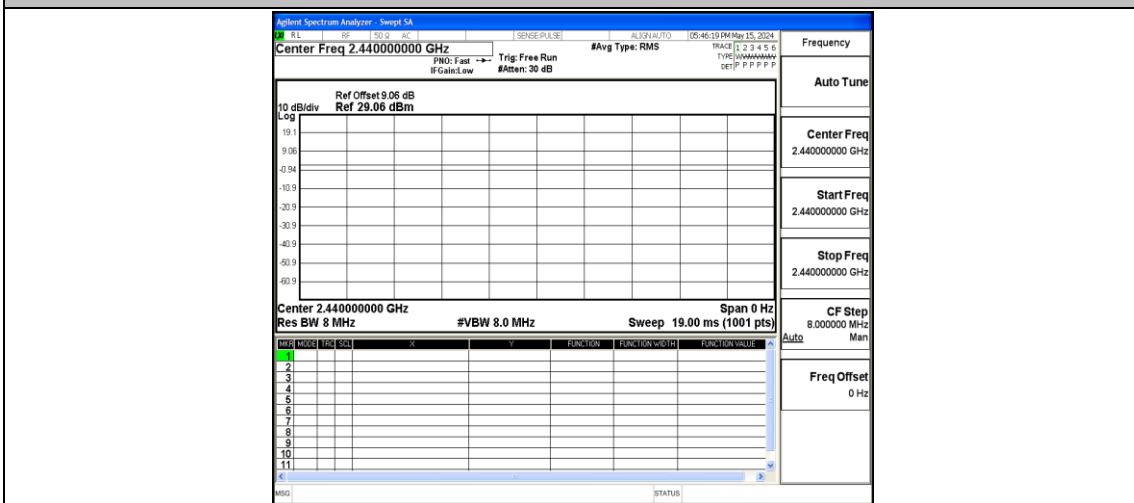
Test Result

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

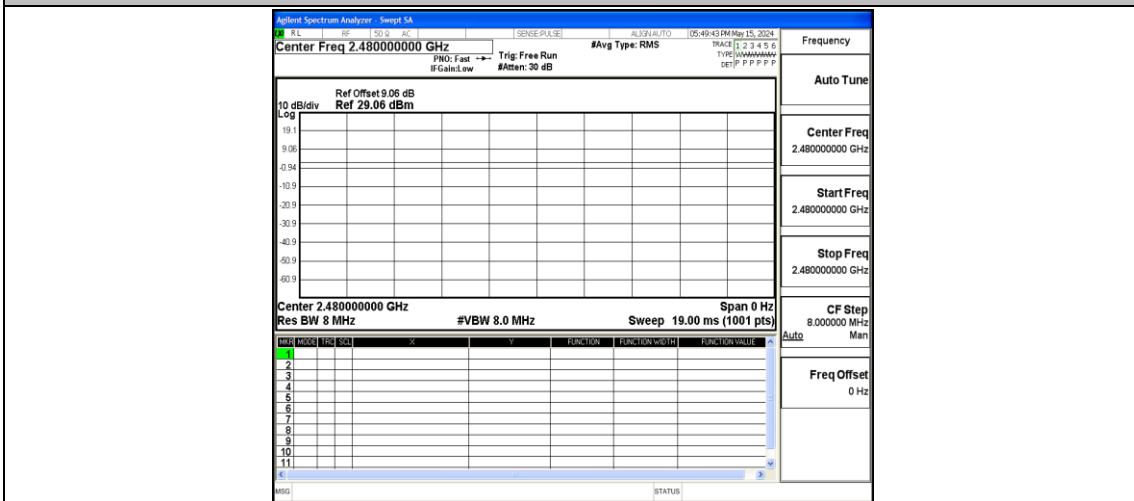
Test Graphs



NTNV-BLE_1M-Ant1-2402



NTNV-BLE_1M-Ant1-2440



NTNV-BLE_1M-Ant1-2480

