

Appendix Test Data for BLE (Conducted Measurement)

Product Name: Wireless Mechanical Keyboard

Trade Mark: Keychron

Test Model: V6 Max

FCC ID: 2BGKB-V6MAX

Environmental Conditions

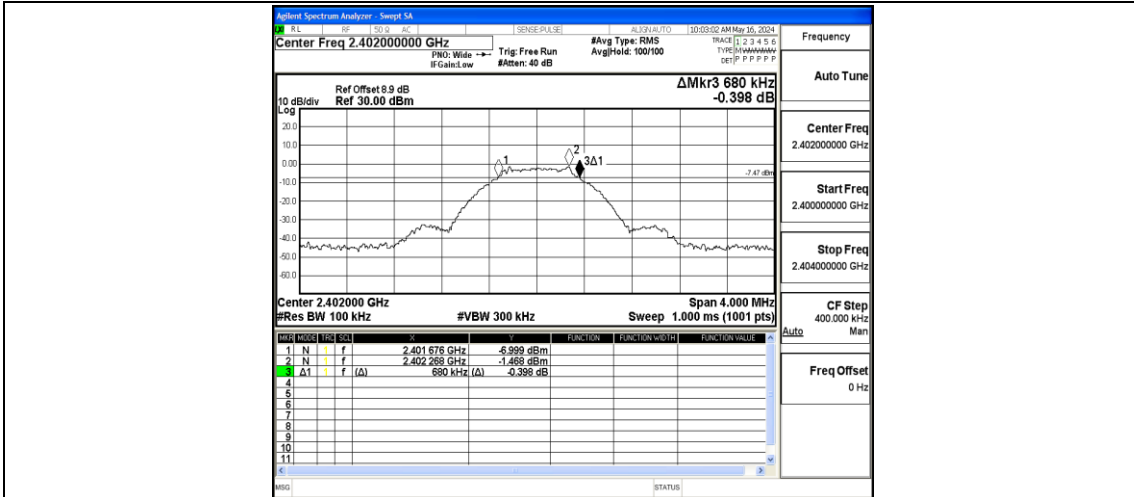
Temperature:	22.8° C
Relative Humidity:	56%
ATM Pressure:	100.0 kPa
Test Engineer:	Allen Lai
Supervised by:	Hugo Chen
NOTE	N/A

Appendix A: DTS Bandwidth

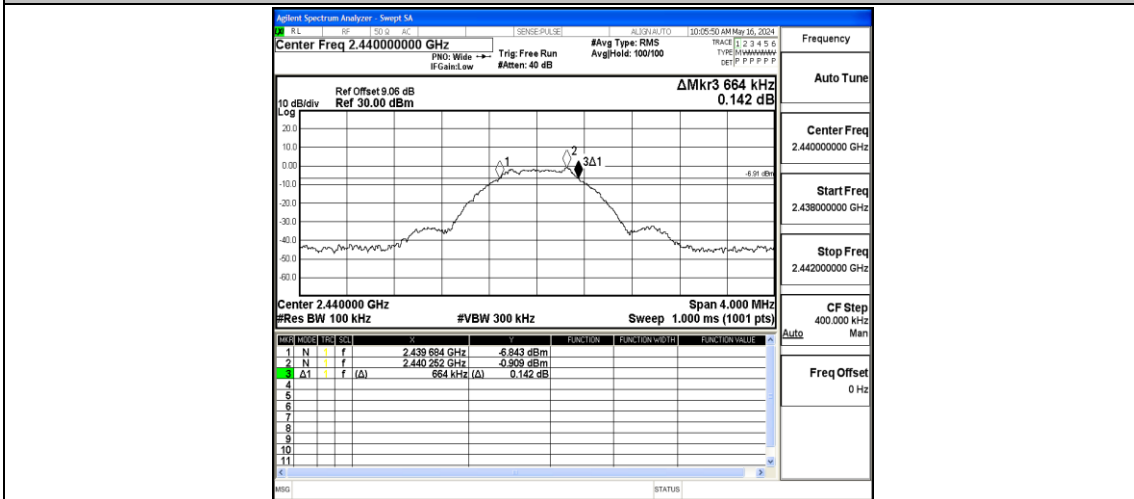
Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.680	2401.676	2402.356	0.5	PASS
BLE_1M	Ant1	2440	0.664	2439.684	2440.348	0.5	PASS
BLE_1M	Ant1	2480	0.700	2479.664	2480.364	0.5	PASS

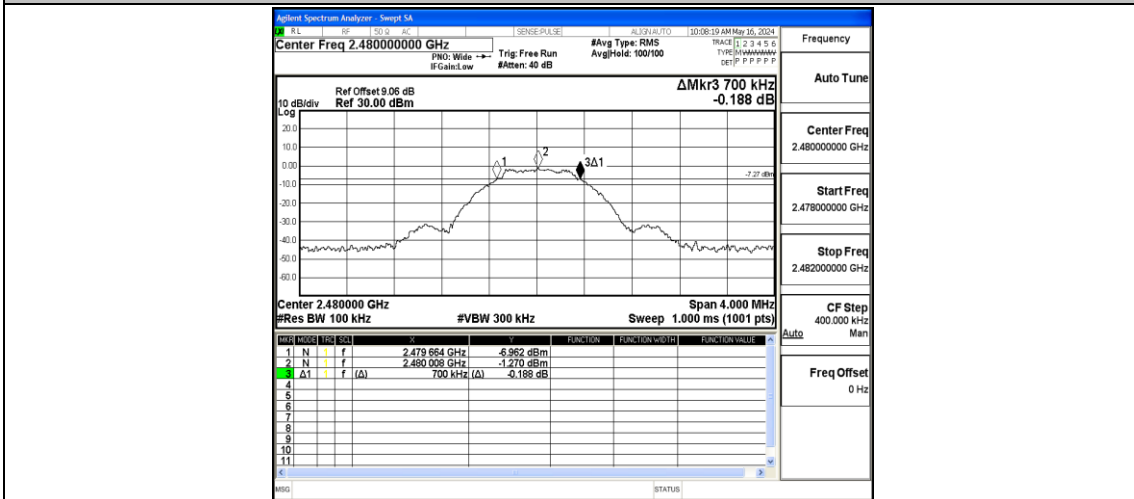
Test Graphs



BLE_1M-Ant1-240-PASS



BLE_1M-Ant1-244-PASS



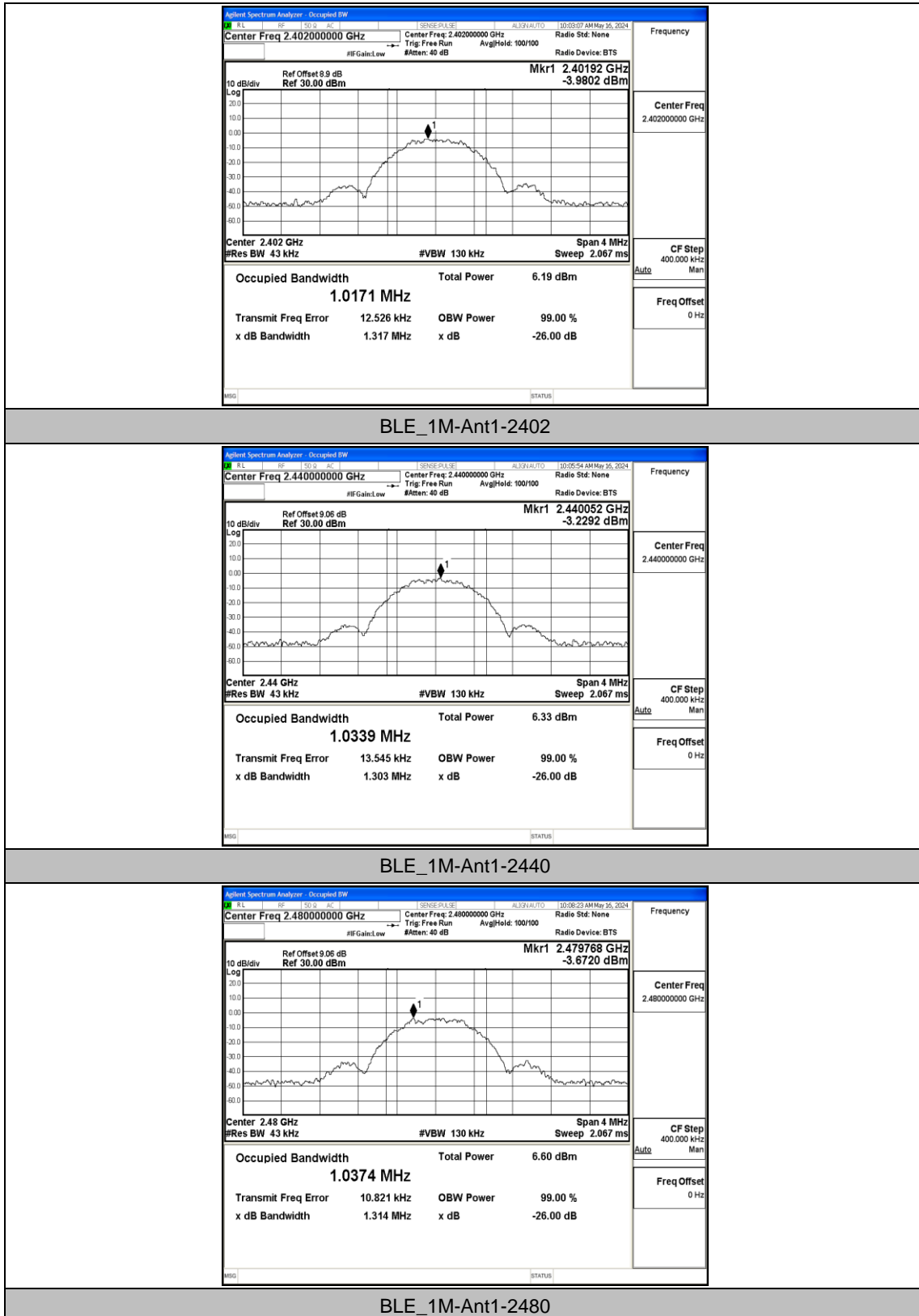
BLE_1M-Ant1-2480-PASS

Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0171	2401.5040	2402.5211	---	---
BLE_1M	Ant1	2440	1.0339	2439.4966	2440.5305	---	---
BLE_1M	Ant1	2480	1.0374	2479.4921	2480.5295	---	---

Test Graphs

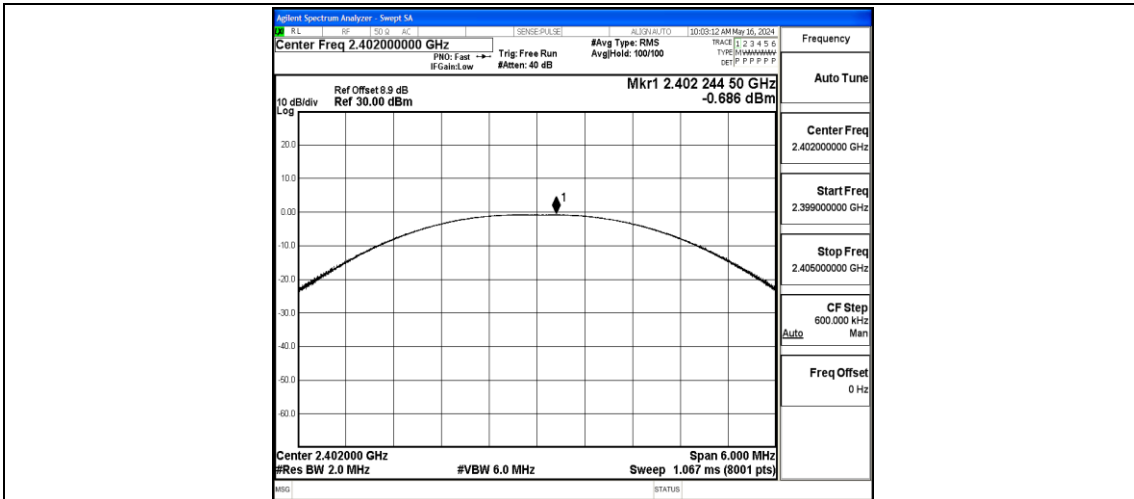


Appendix C: Maximum peak conducted output power

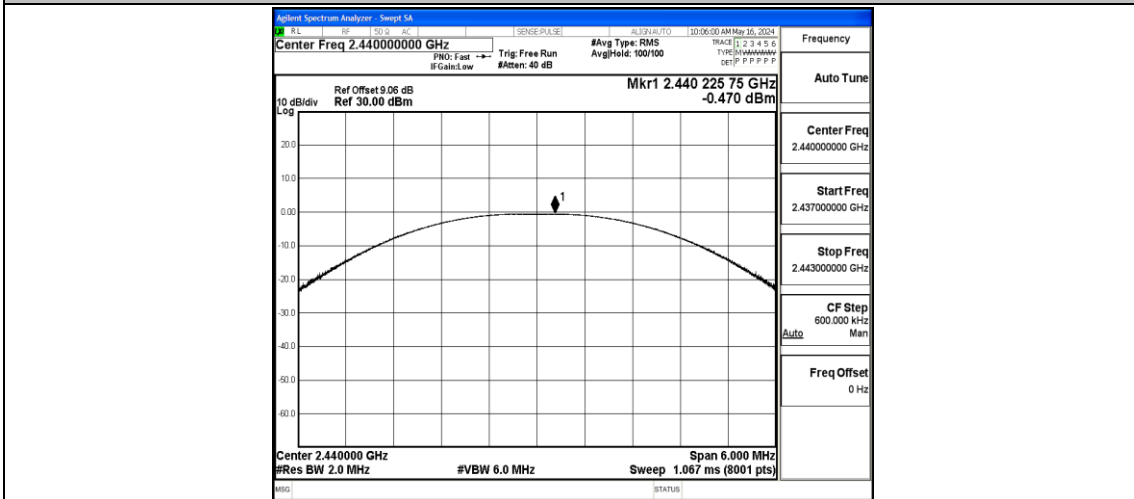
Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-0.69	≤30	PASS
BLE_1M	Ant1	2440	-0.47	≤30	PASS
BLE_1M	Ant1	2480	-0.21	≤30	PASS

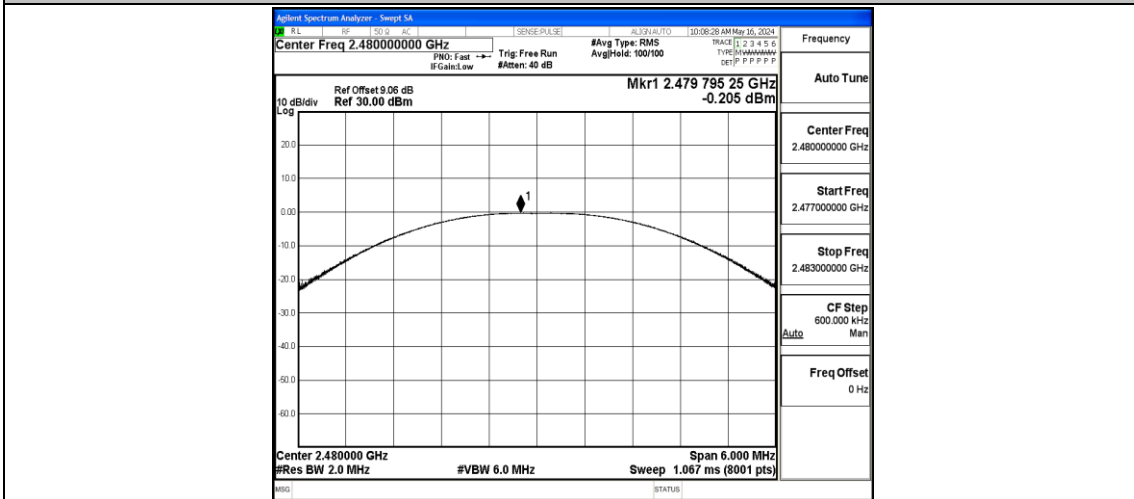
Test Graphs Peak



BLE_1M-Ant1-240-PASS



BLE_1M-Ant1-2440-PASS



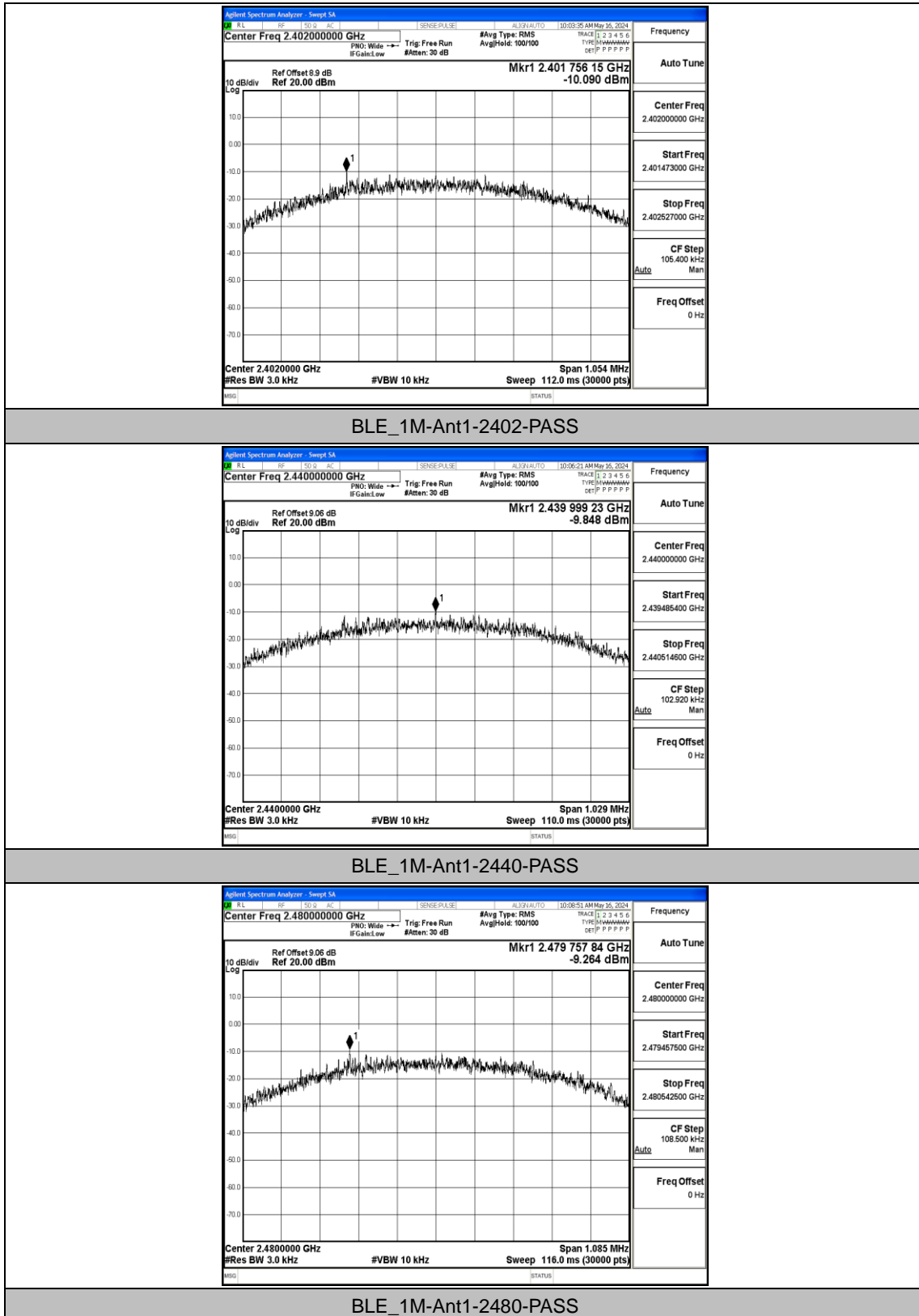
BLE_1M-Ant1-2480-PASS

Appendix D: Maximum peak power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-10.09	≤8.00	PASS
BLE_1M	Ant1	2440	-9.85	≤8.00	PASS
BLE_1M	Ant1	2480	-9.26	≤8.00	PASS

Test Graphs

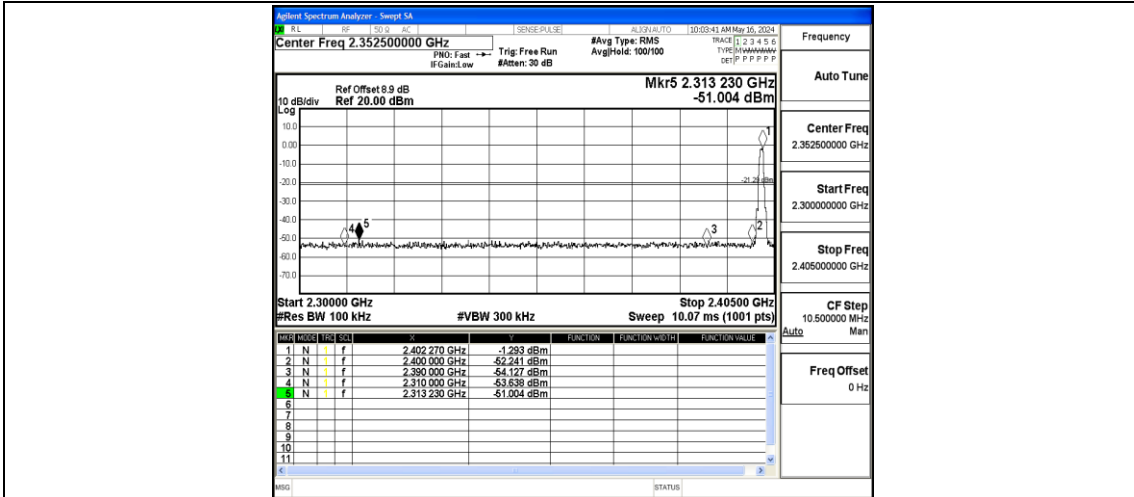


Appendix E: Band edge measurements

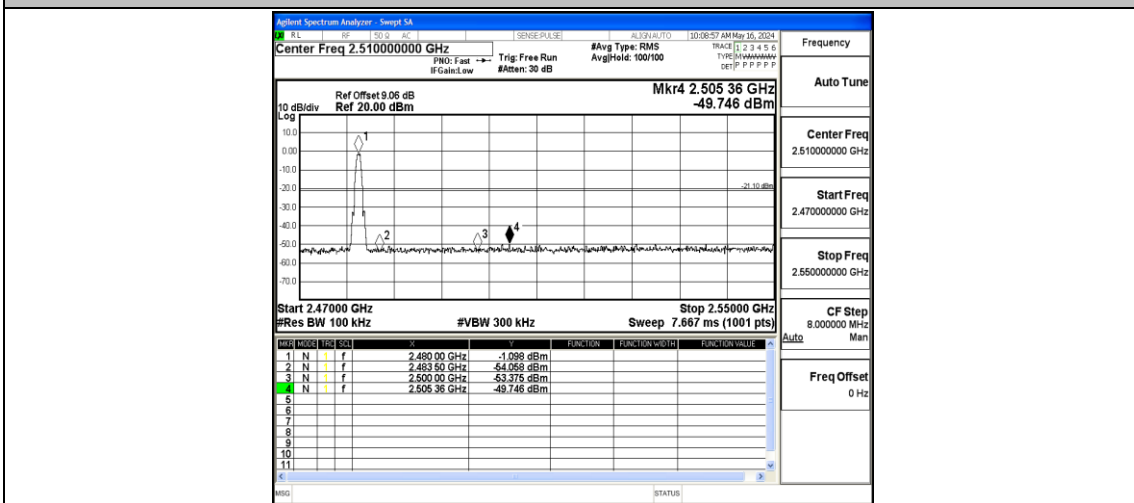
Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-1.29	-51	≤-21.29	PASS
BLE_1M	Ant1	High	2480	-1.10	-49.75	≤-21.1	PASS

Test Graphs



BLE_1M-Ant1-240-PASS



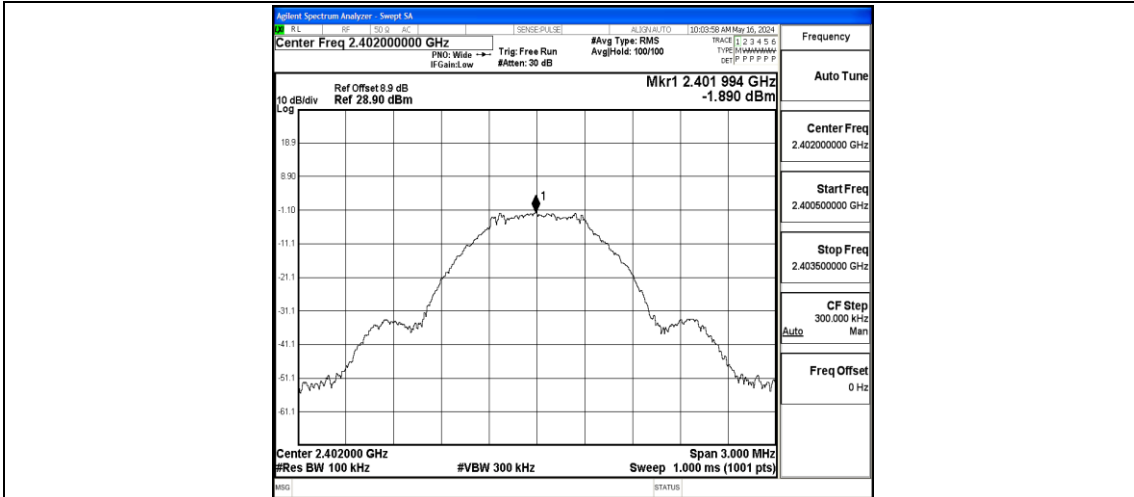
BLE_1M-Ant1-2480-PASS

Appendix F: Conducted Spurious Emission

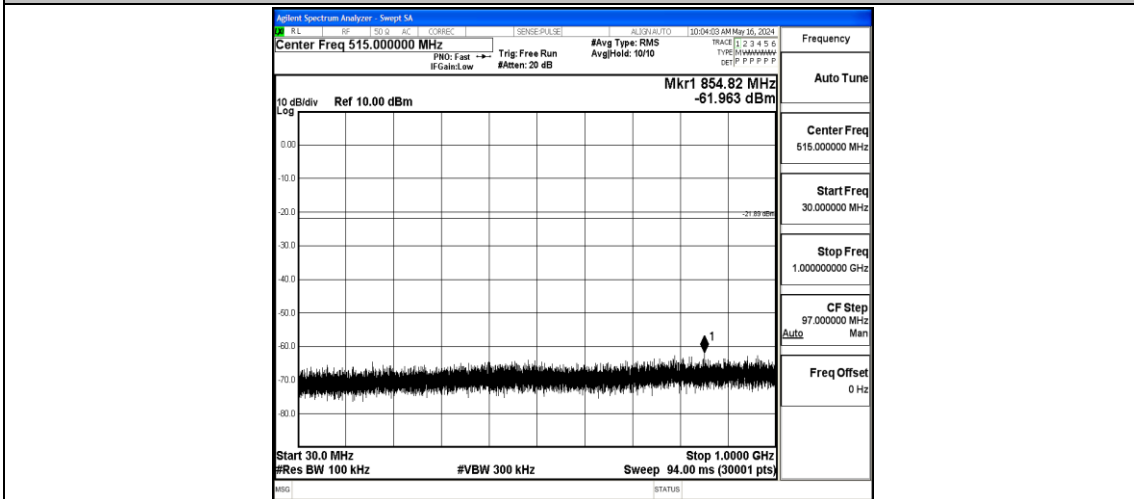
Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	-1.89	-1.89	---	PASS
BLE_1M	Ant1	2402	30~1000	-1.89	-61.96	≤-21.89	PASS
BLE_1M	Ant1	2402	1000~26500	-1.89	-46.37	≤-21.89	PASS
BLE_1M	Ant1	2440	0~Reference	-0.95	-0.95	---	PASS
BLE_1M	Ant1	2440	30~1000	-0.95	-62.13	≤-20.95	PASS
BLE_1M	Ant1	2440	1000~26500	-0.95	-50.23	≤-20.95	PASS
BLE_1M	Ant1	2480	0~Reference	-0.98	-0.98	---	PASS
BLE_1M	Ant1	2480	30~1000	-0.98	-62.64	≤-20.98	PASS
BLE_1M	Ant1	2480	1000~26500	-0.98	-49.5	≤-20.98	PASS

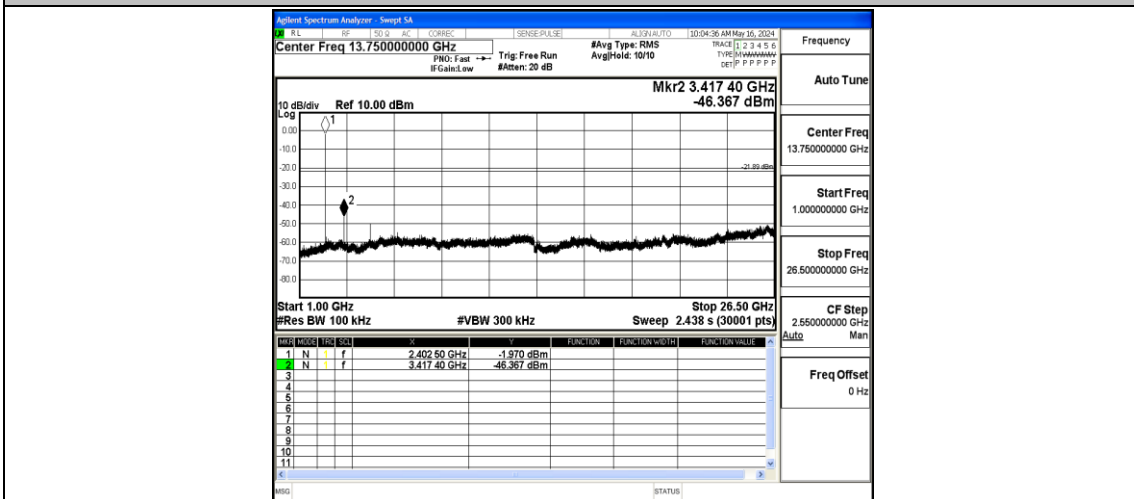
Test Graphs



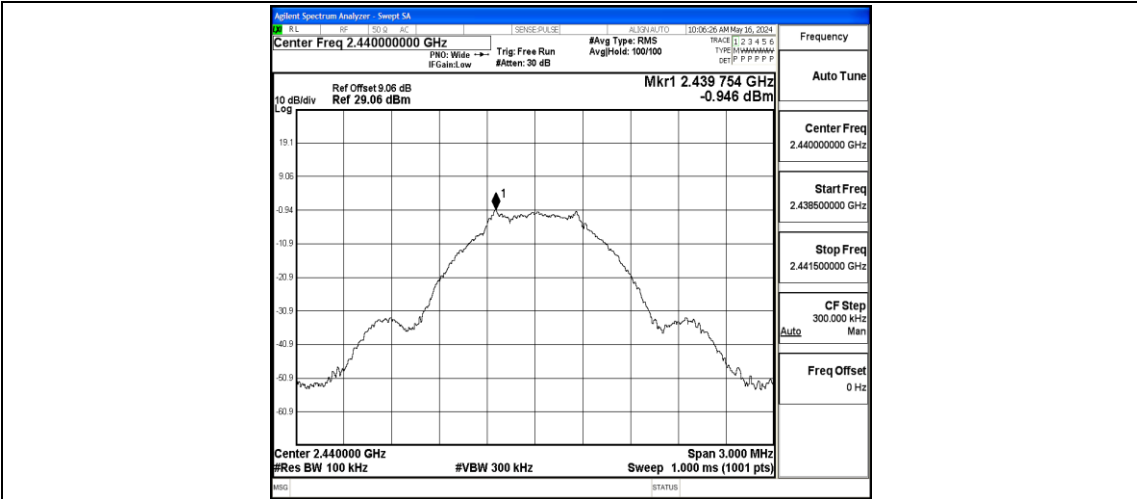
BLE_1M-Ant1-2402-0~Reference-PASS



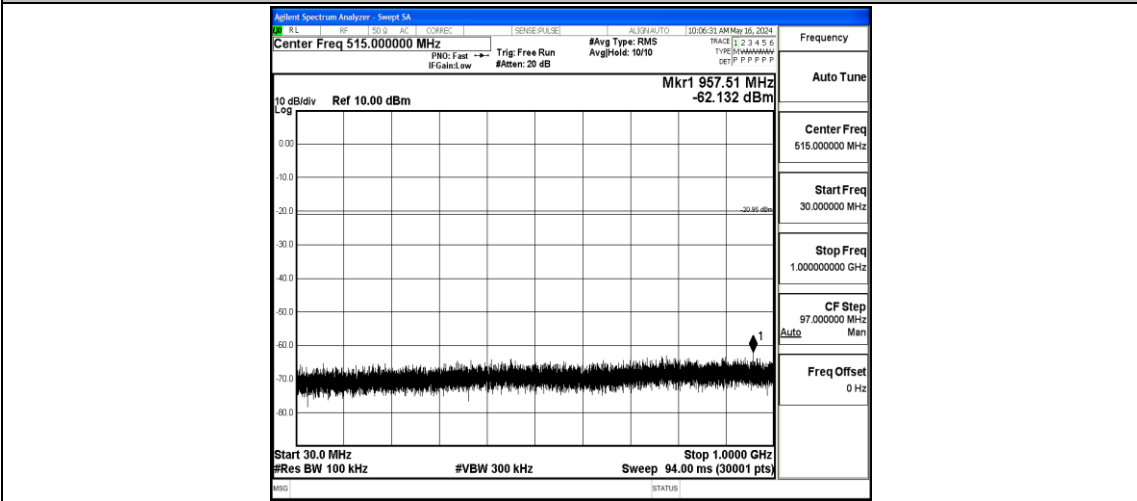
BLE_1M-Ant1-2402-30~1000-PASS



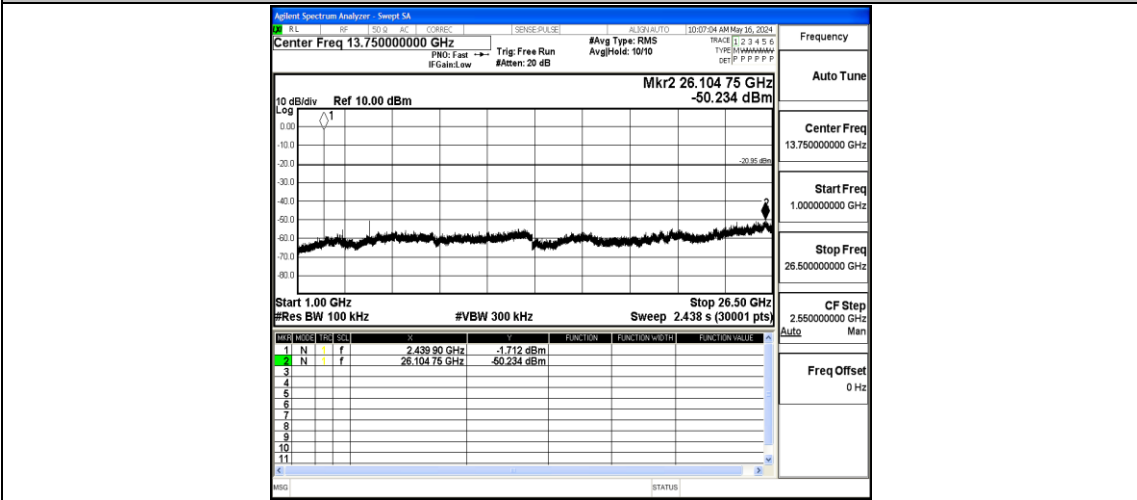
BLE_1M-Ant1-2402-1000~26500-PASS



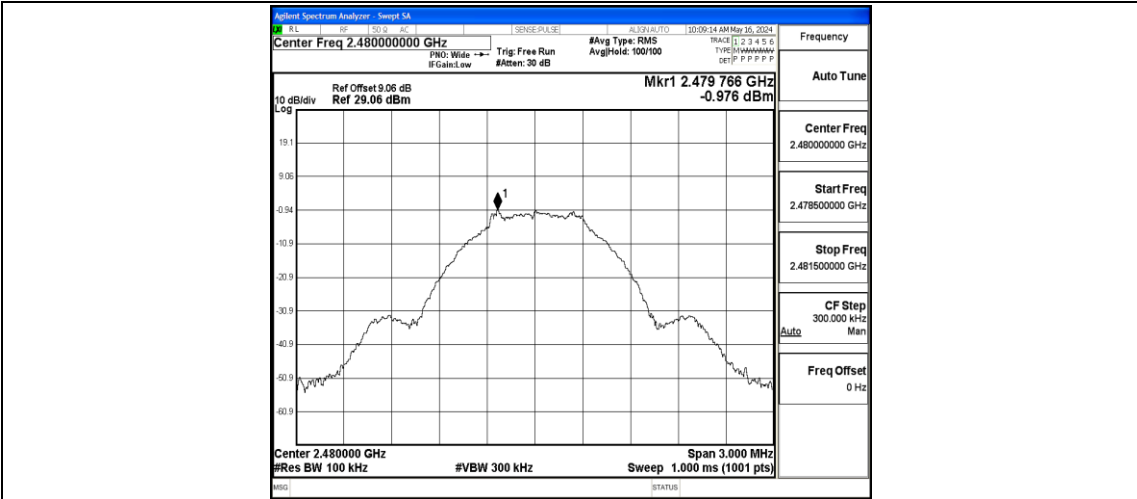
BLE_1M-Ant1-2440-0~Reference-PASS



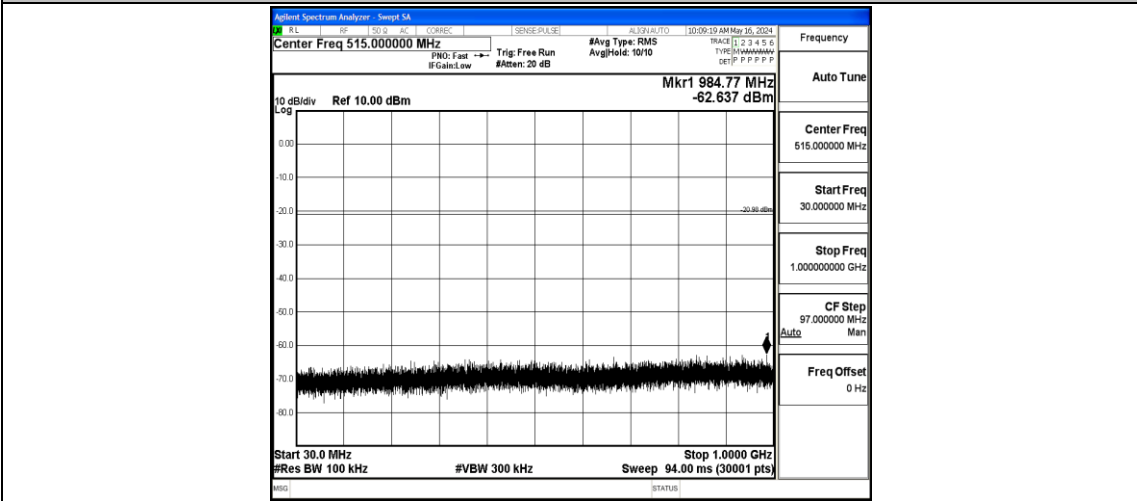
BLE_1M-Ant1-2440-30~1000-PASS



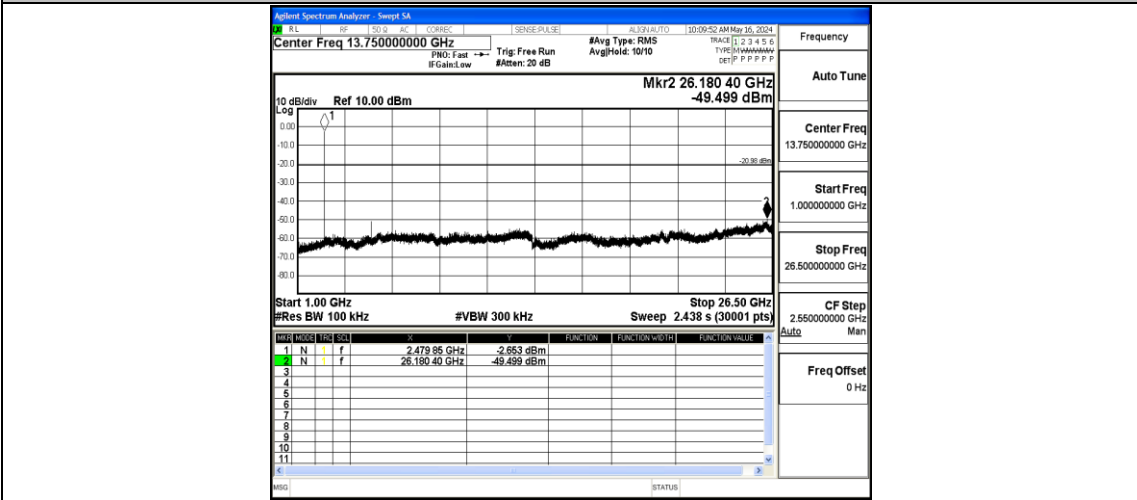
BLE_1M-Ant1-2440-1000~26500-PASS



BLE_1M-Ant1-2480-0~Reference-PASS



BLE_1M-Ant1-2480-30~1000-PASS



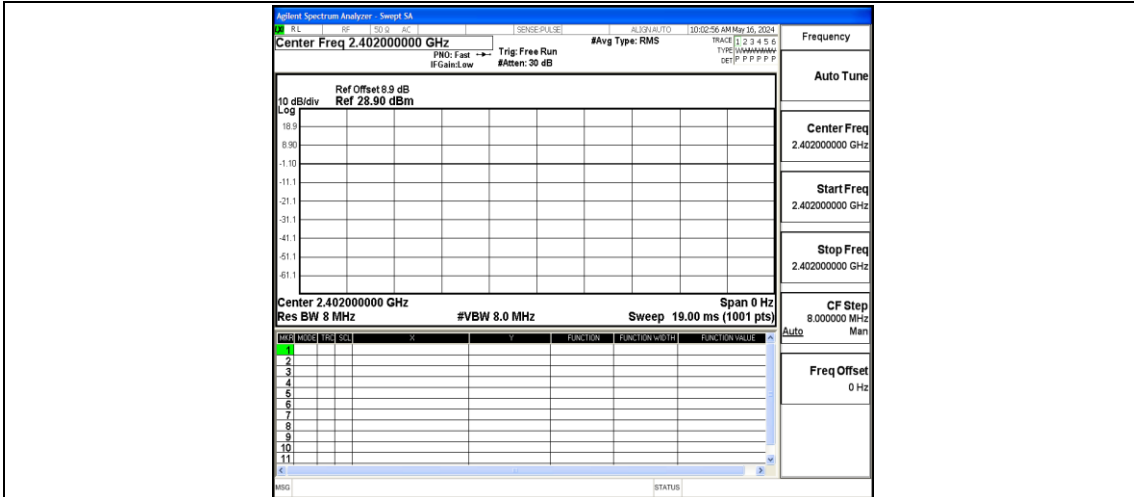
BLE_1M-Ant1-2480-1000~26500-PASS

Appendix G: Duty Cycle

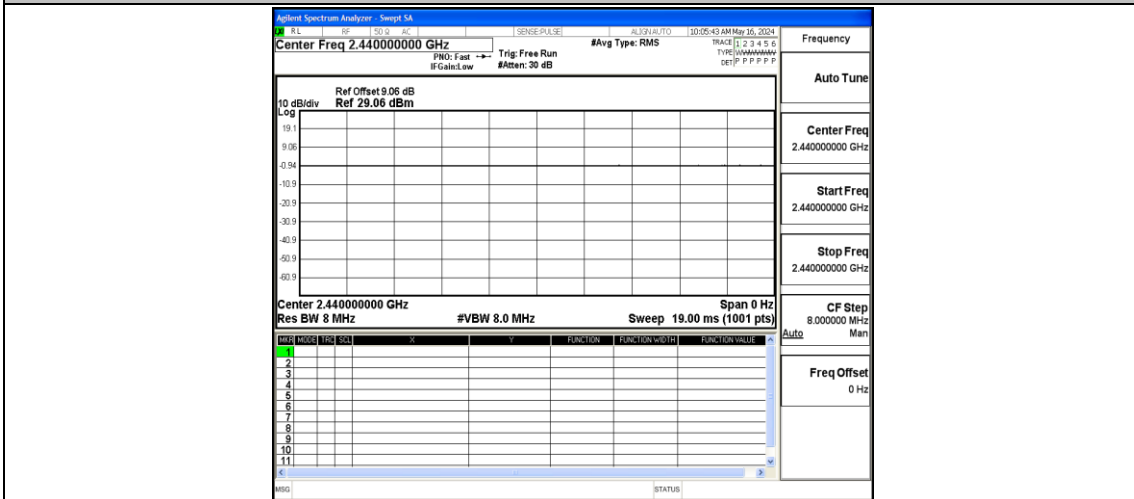
Test Result

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

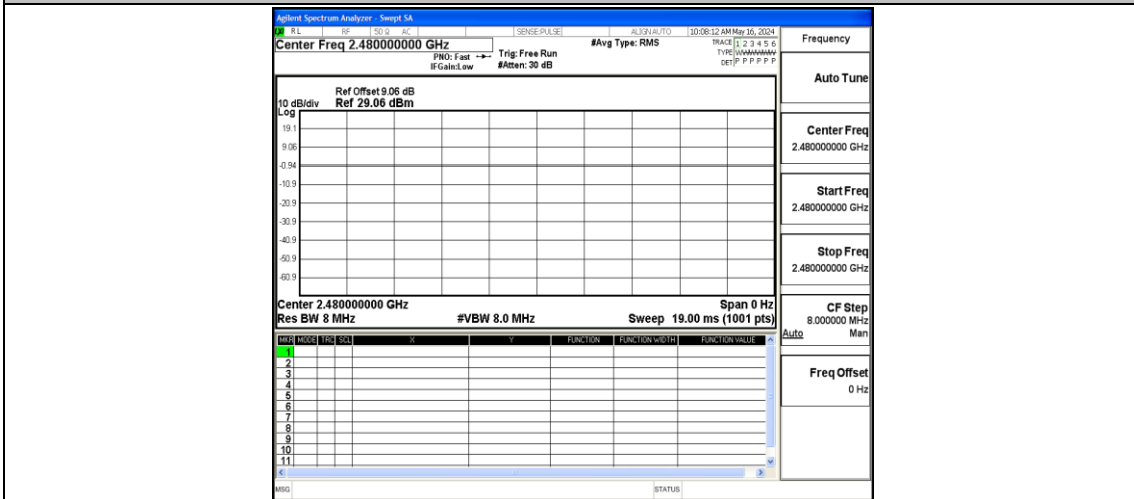
Test Graphs



NTNV-BLE_1M-Ant1-2402



NTNV-BLE_1M-Ant1-2440



NTNV-BLE_1M-Ant1-2480