

Appendix Test Data for BLE (Conducted Measurement)

Product Name: Wanbo Projector

Trade Mark: wanbo

Test Model: WPD24

FCC ID: 2A7PIWPD24

Environmental Conditions

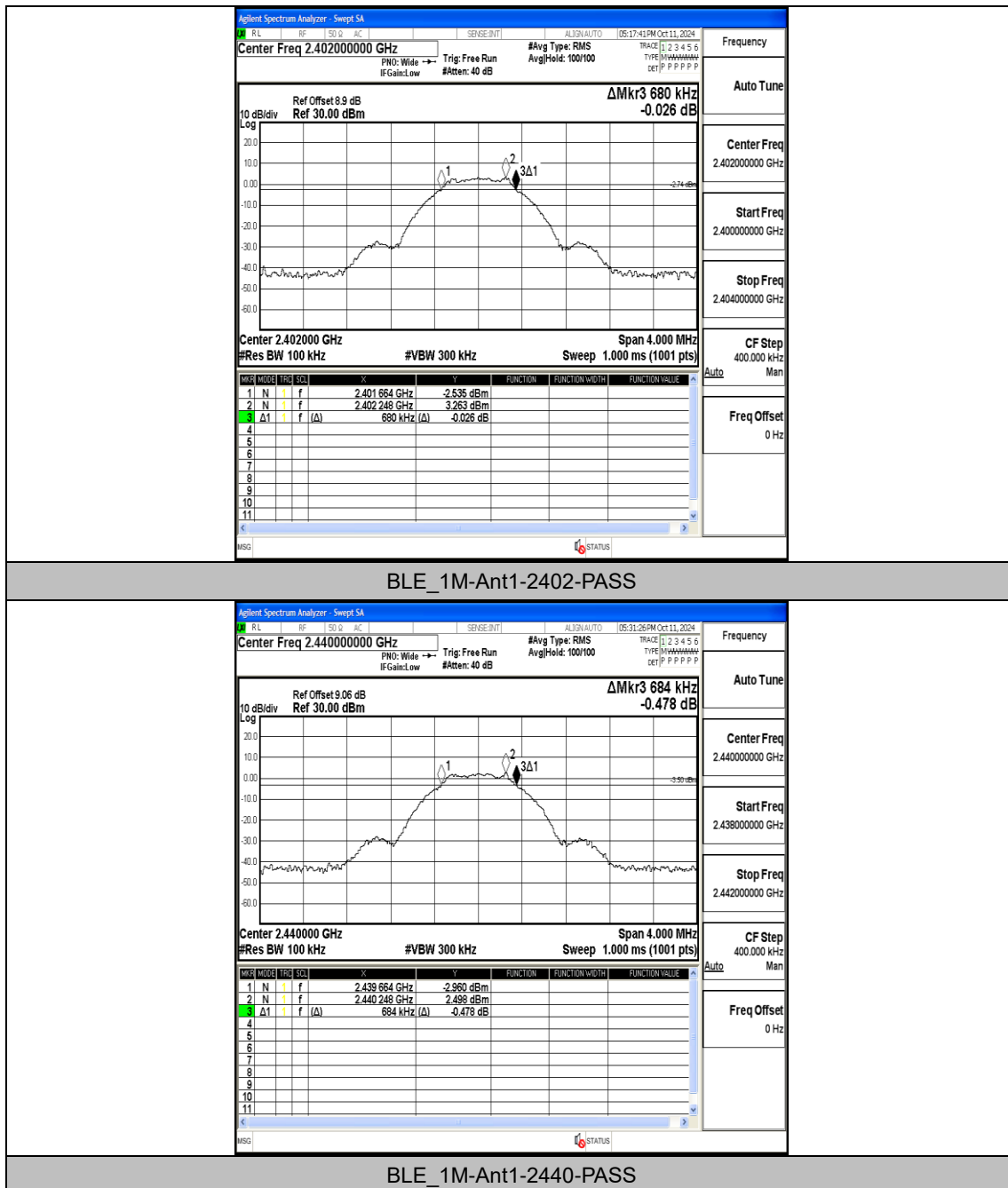
Temperature:	23.8℃
Relative Humidity:	58%
ATM Pressure:	100.0 kPa
Test Engineer:	Allen Lai
Supervised by:	Hugo Chen
NOTE	N/A

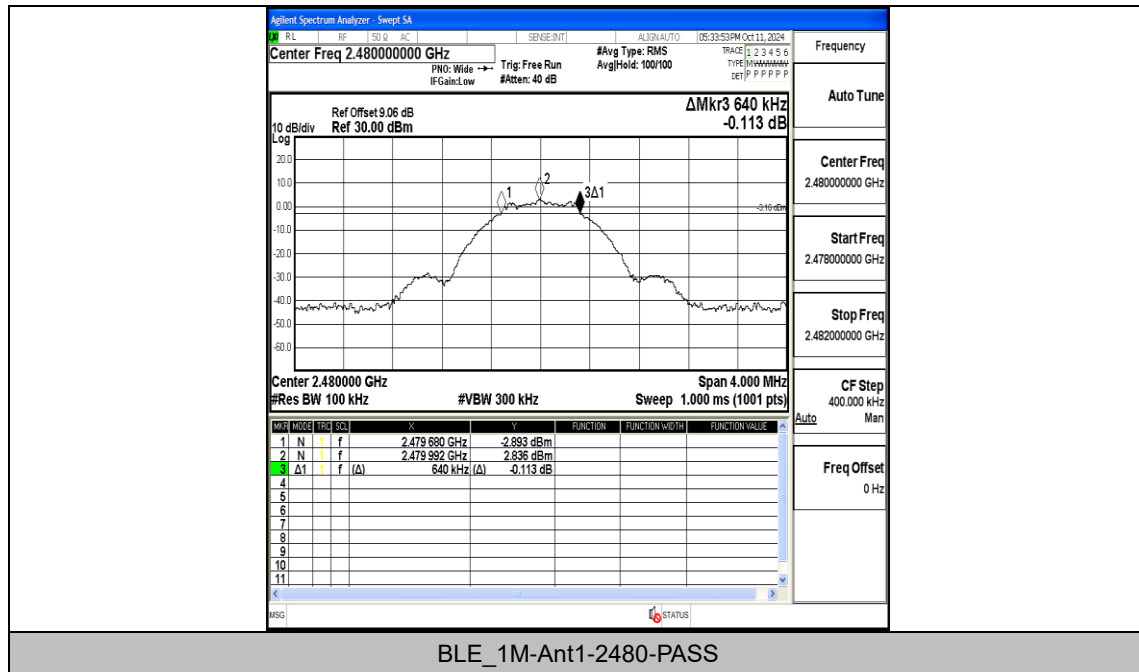
Appendix A: DTS Bandwidth

Test Result

Test Mode	Antenna	Frequency [MHz]	DTS BW [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
BLE_1M	Ant1	2402	0.680	2401.664	2402.344	0.5	PASS
BLE_1M	Ant1	2440	0.684	2439.664	2440.348	0.5	PASS
BLE_1M	Ant1	2480	0.640	2479.680	2480.320	0.5	PASS

Test Graphs



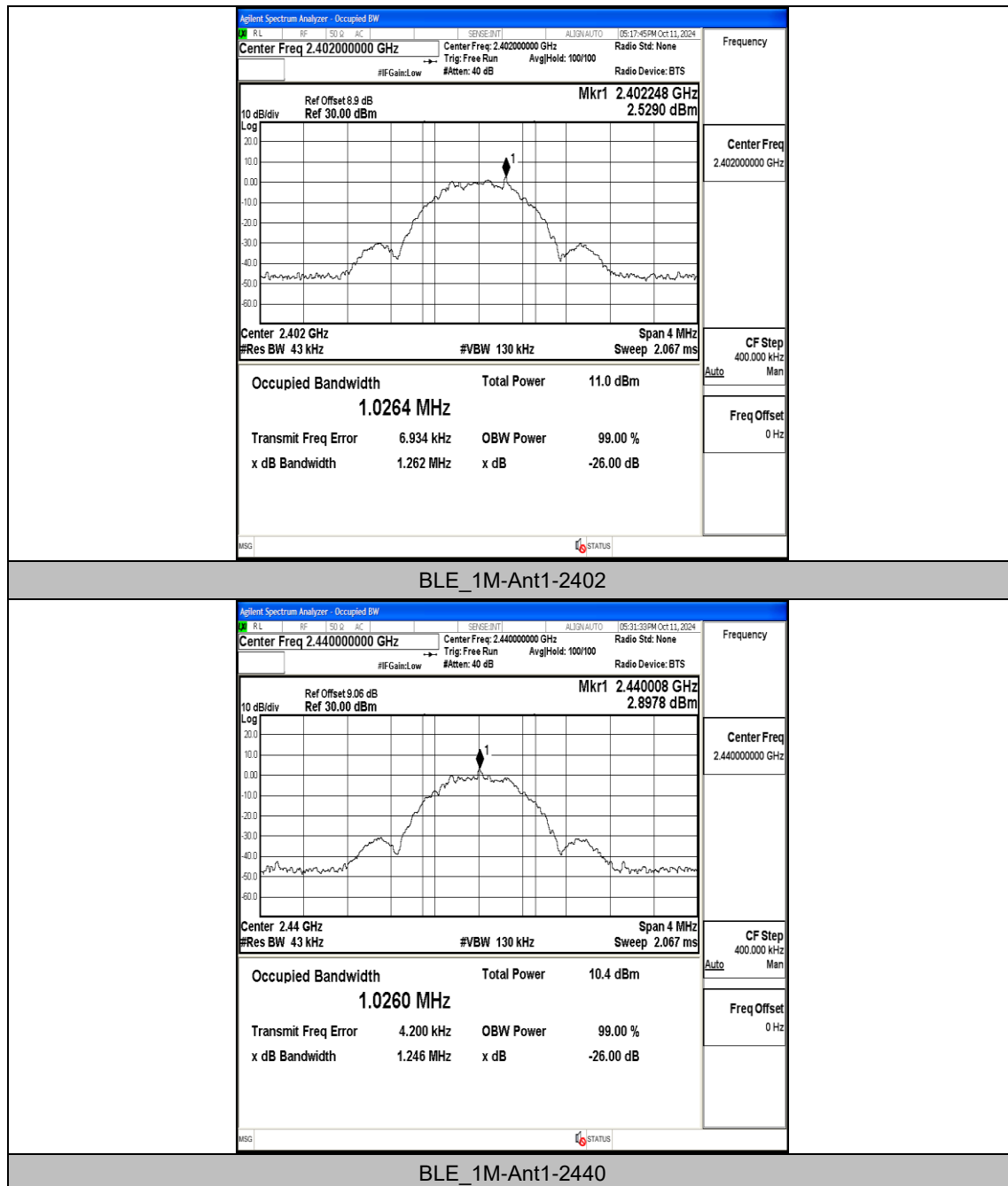


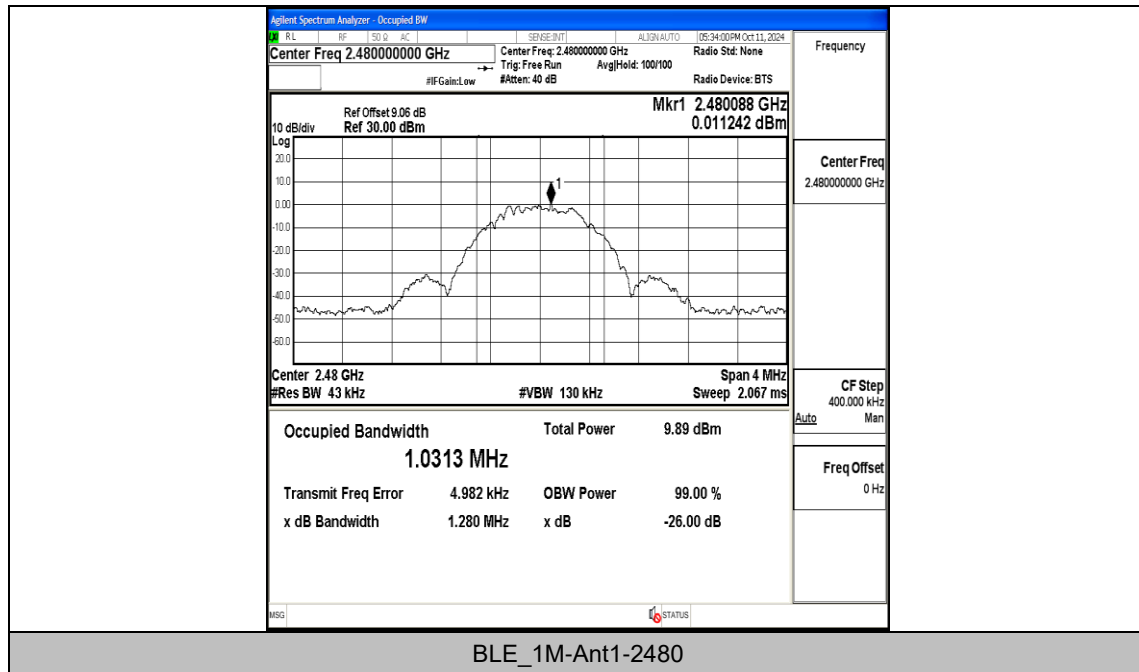
Appendix B: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Frequency [MHz]	OCB [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
BLE_1M	Ant1	2402	1.0264	2401.4937	2402.5201	---	---
BLE_1M	Ant1	2440	1.0260	2439.4912	2440.5172	---	---
BLE_1M	Ant1	2480	1.0313	2479.4893	2480.5206	---	---

Test Graphs



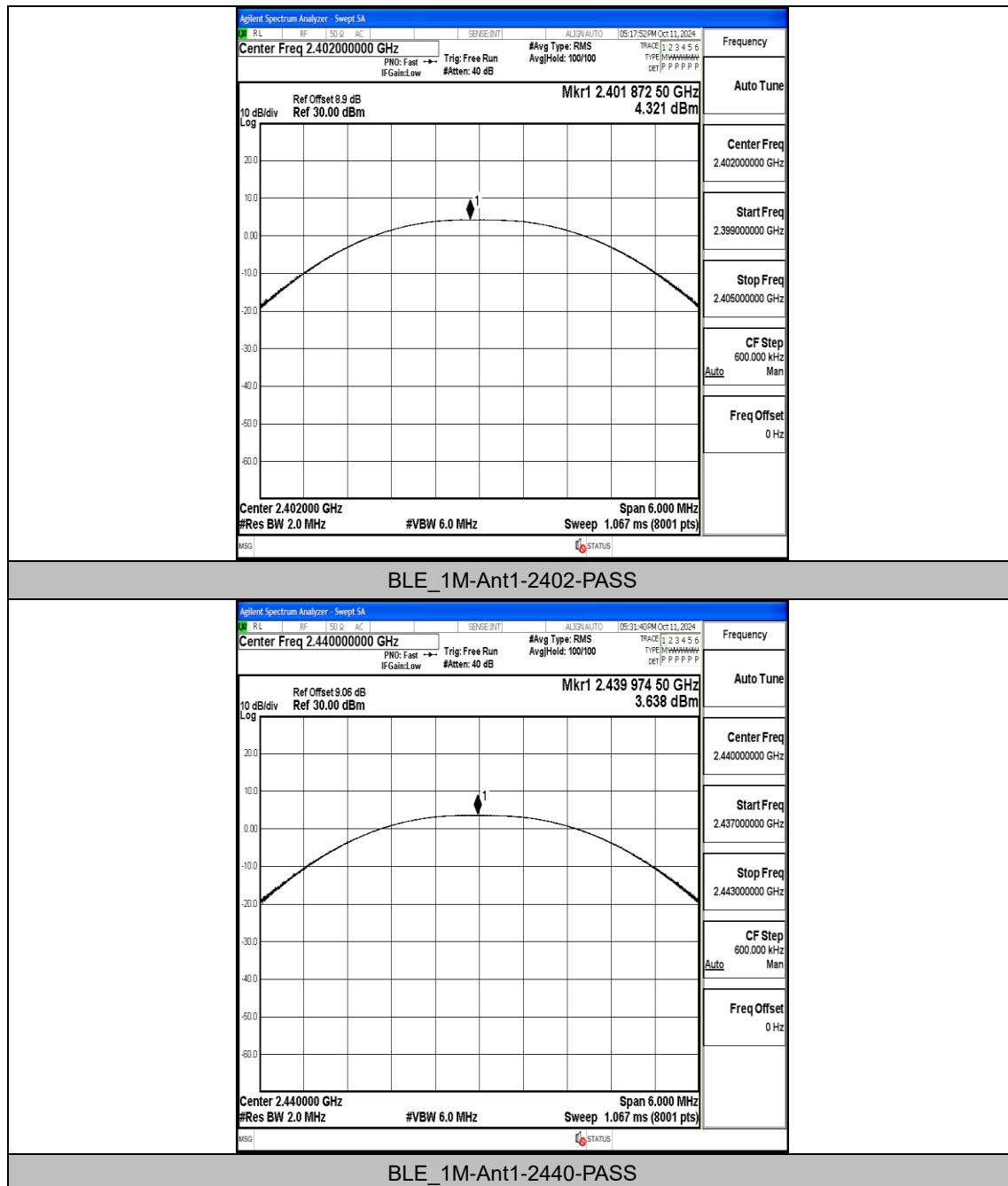


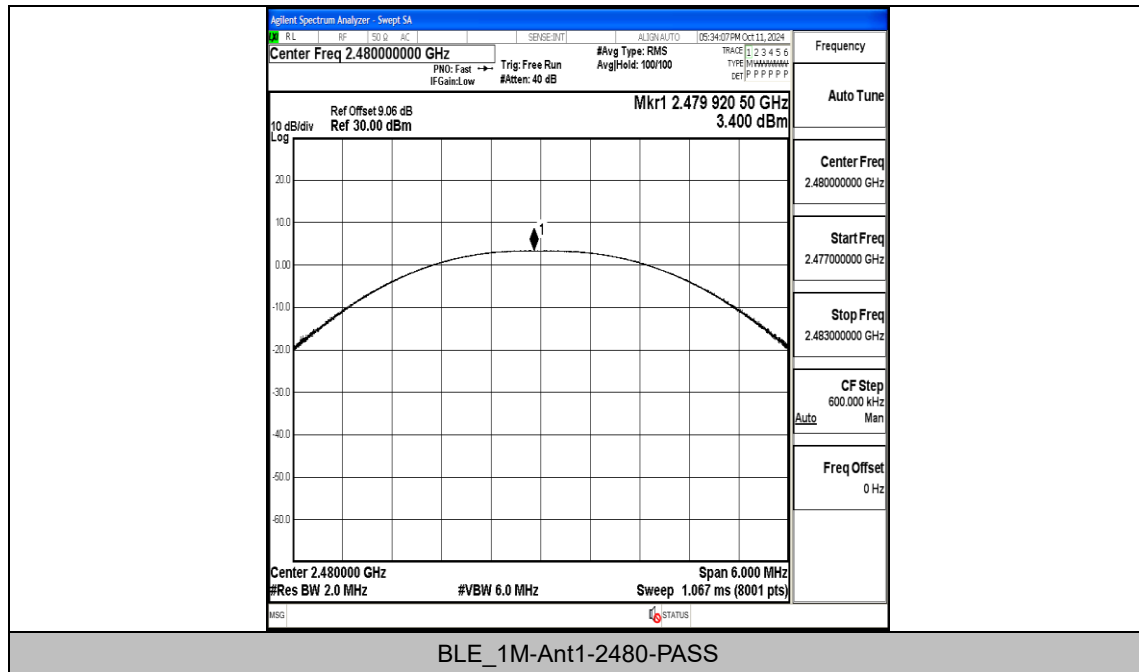
Appendix C: Maximum peak conducted output power

Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power [dBm]	Conducted Limit [dBm]	Verdict
BLE_1M	Ant1	2402	4.32	≤30	PASS
BLE_1M	Ant1	2440	3.64	≤30	PASS
BLE_1M	Ant1	2480	3.40	≤30	PASS

Test Graphs Peak



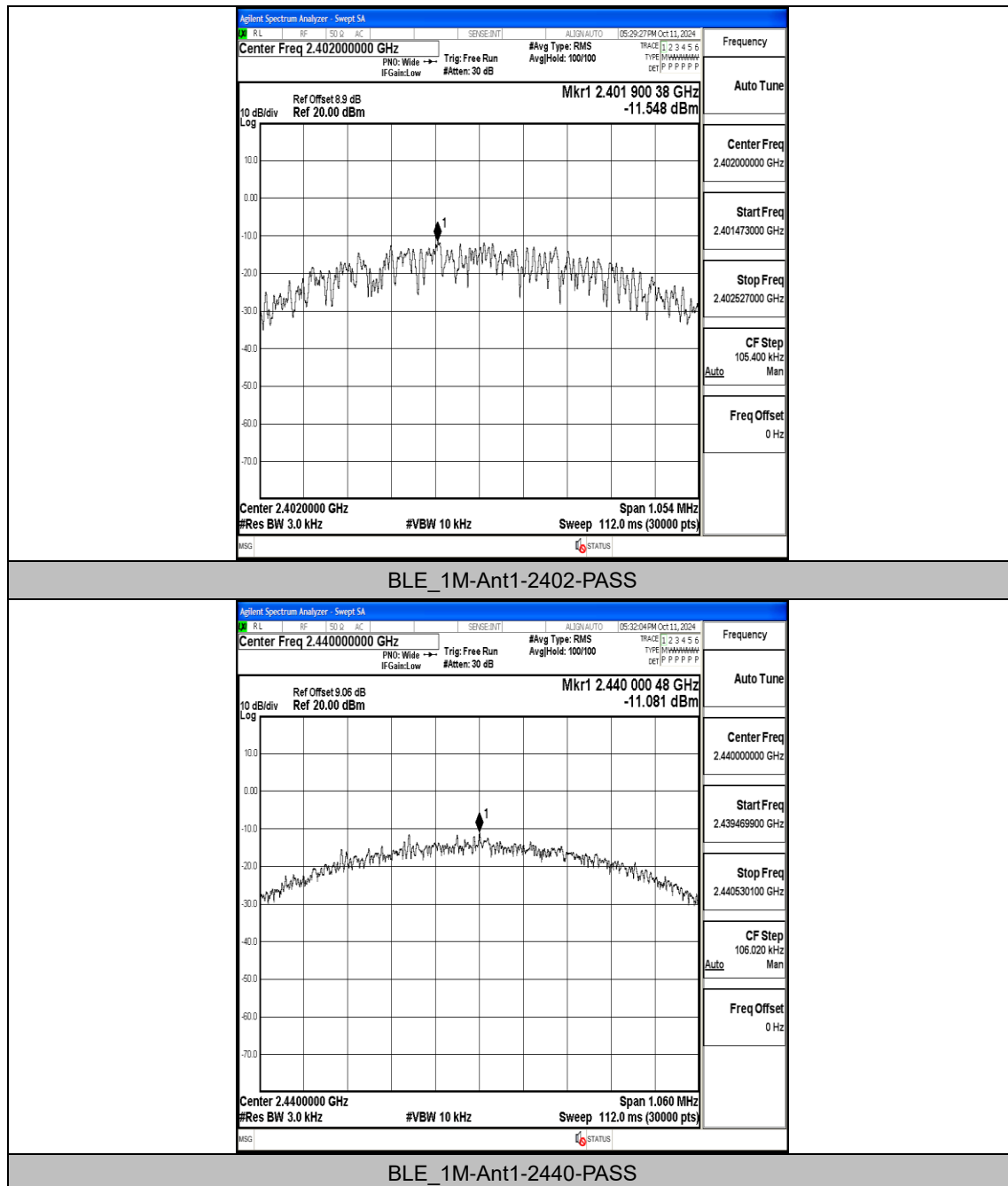


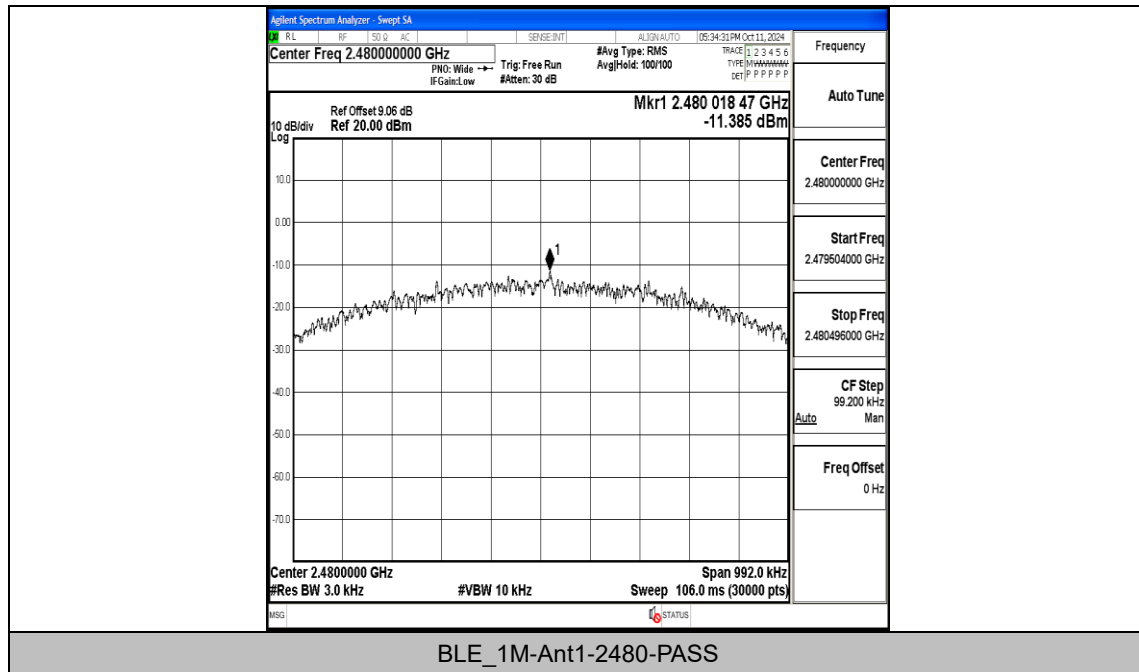
Appendix D: Maximum peak power spectral density

Test Result

Test Mode	Antenna	Frequency [MHz]	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-11.55	≤8.00	PASS
BLE_1M	Ant1	2440	-11.08	≤8.00	PASS
BLE_1M	Ant1	2480	-11.39	≤8.00	PASS

Test Graphs



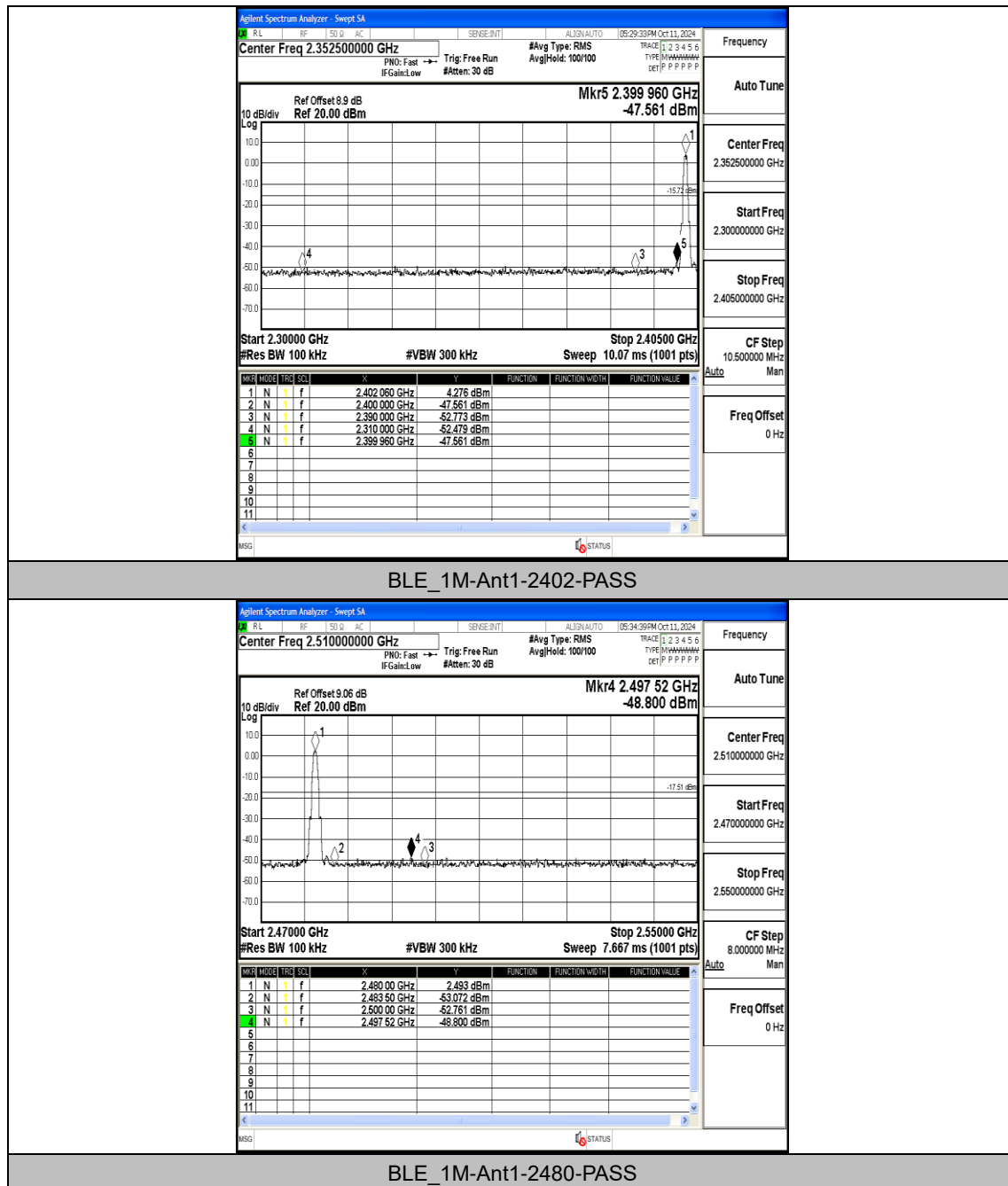


Appendix E: Band edge measurements

Test Result

Test Mode	Antenna	Ch. Name	Frequency [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	4.28	-47.56	≤-15.72	PASS
BLE_1M	Ant1	High	2480	2.49	-48.8	≤-17.51	PASS

Test Graphs

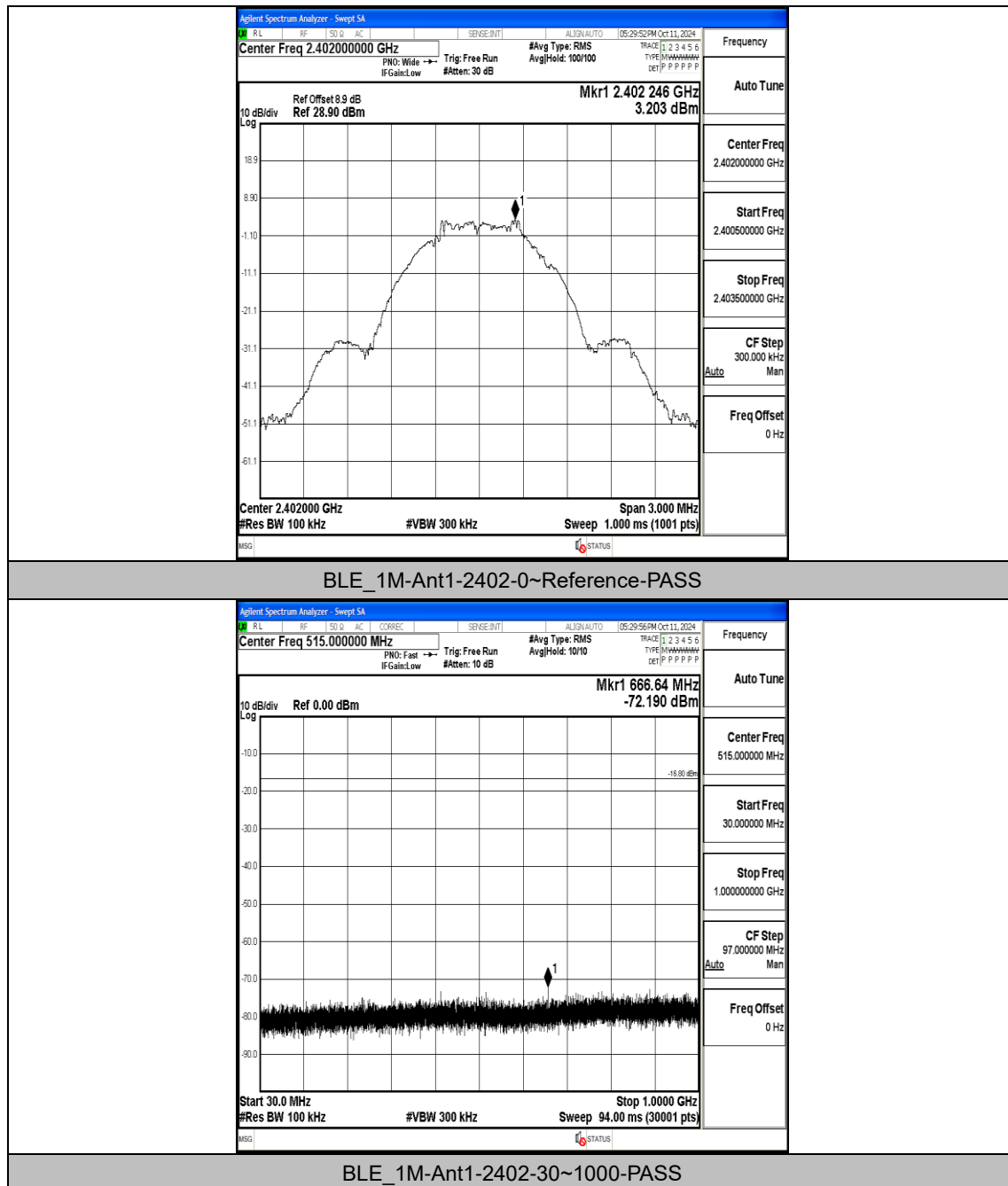


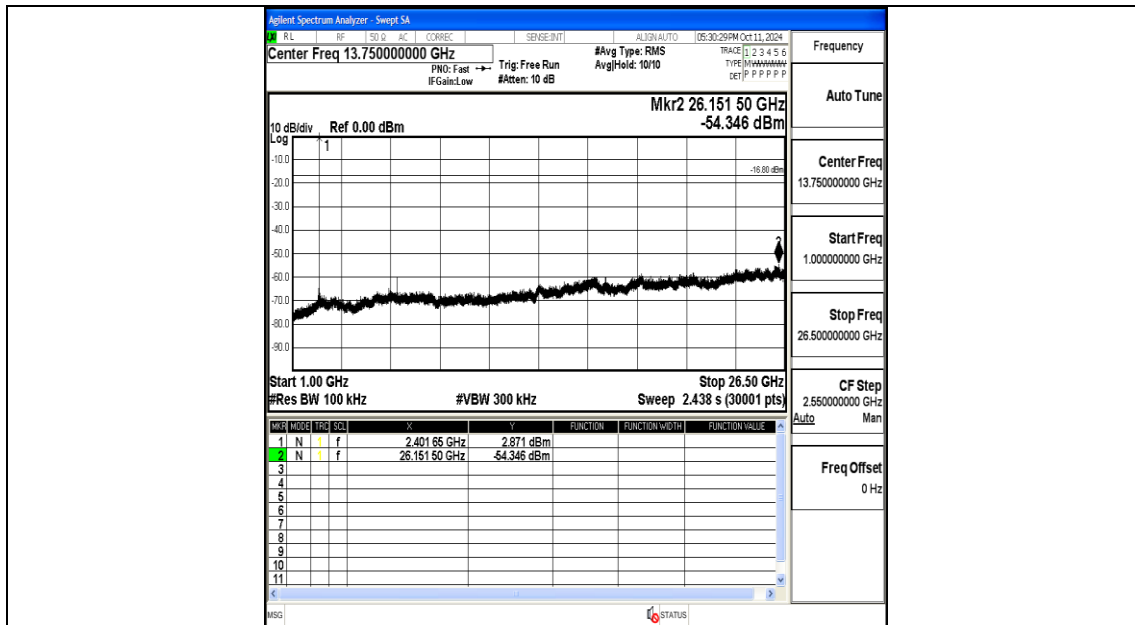
Appendix F: Conducted Spurious Emission

Test Result

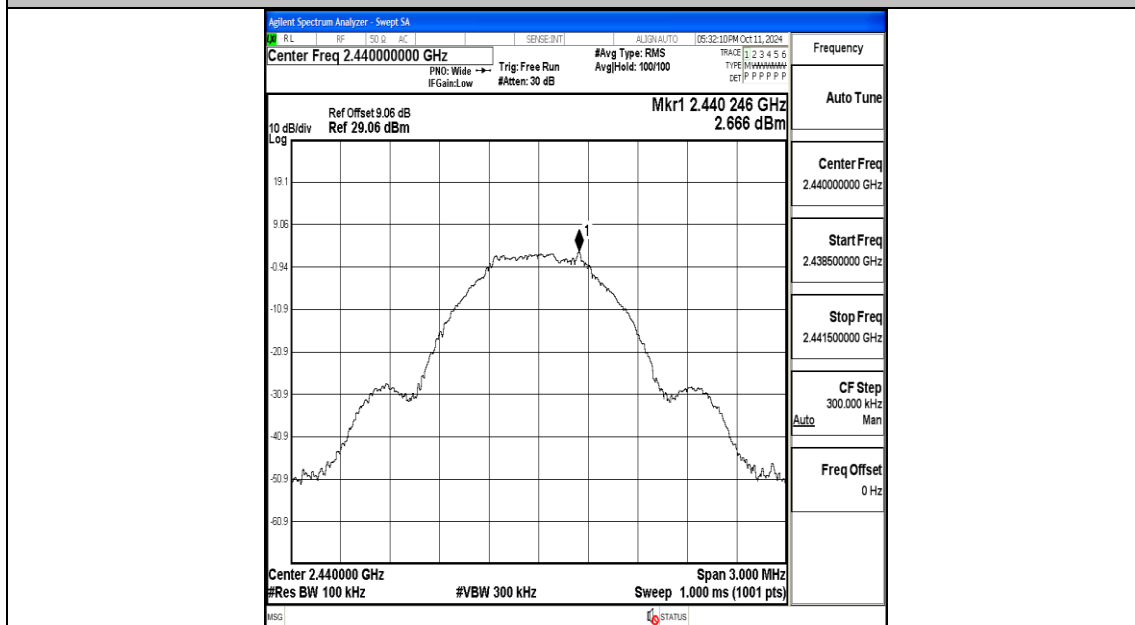
Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	3.20	3.20	---	PASS
BLE_1M	Ant1	2402	30~1000	3.20	-72.19	≤-16.8	PASS
BLE_1M	Ant1	2402	1000~26500	3.20	-54.35	≤-16.8	PASS
BLE_1M	Ant1	2440	0~Reference	2.67	2.67	---	PASS
BLE_1M	Ant1	2440	30~1000	2.67	-71.36	≤-17.33	PASS
BLE_1M	Ant1	2440	1000~26500	2.67	-55.03	≤-17.33	PASS
BLE_1M	Ant1	2480	0~Reference	2.12	2.12	---	PASS
BLE_1M	Ant1	2480	30~1000	2.12	-72.26	≤-17.88	PASS
BLE_1M	Ant1	2480	1000~26500	2.12	-55.49	≤-17.88	PASS

Test Graphs

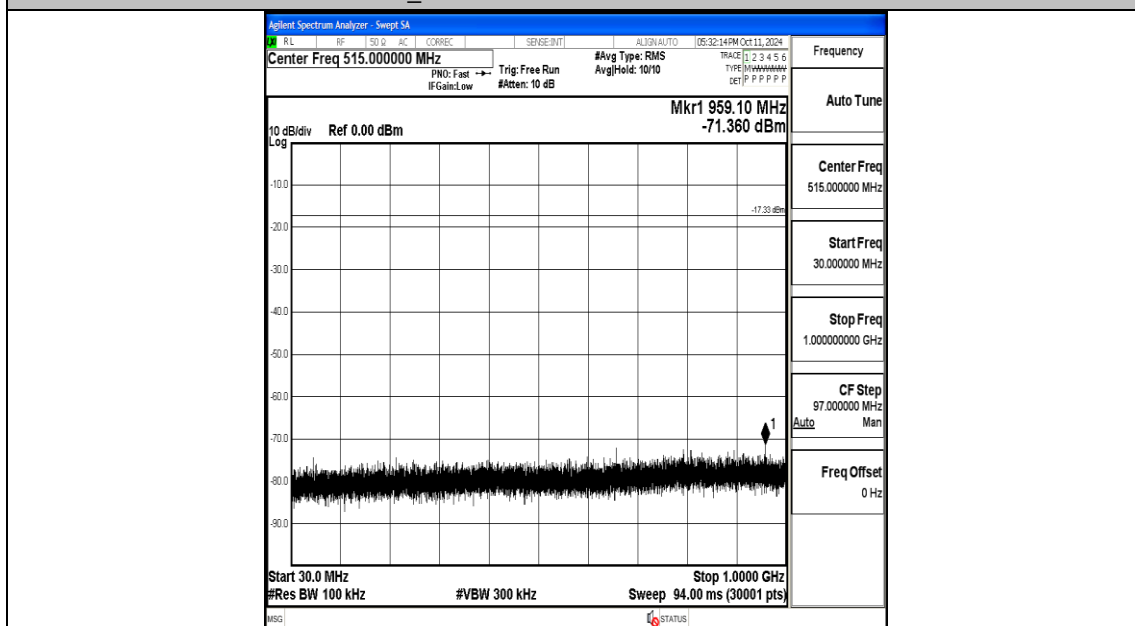




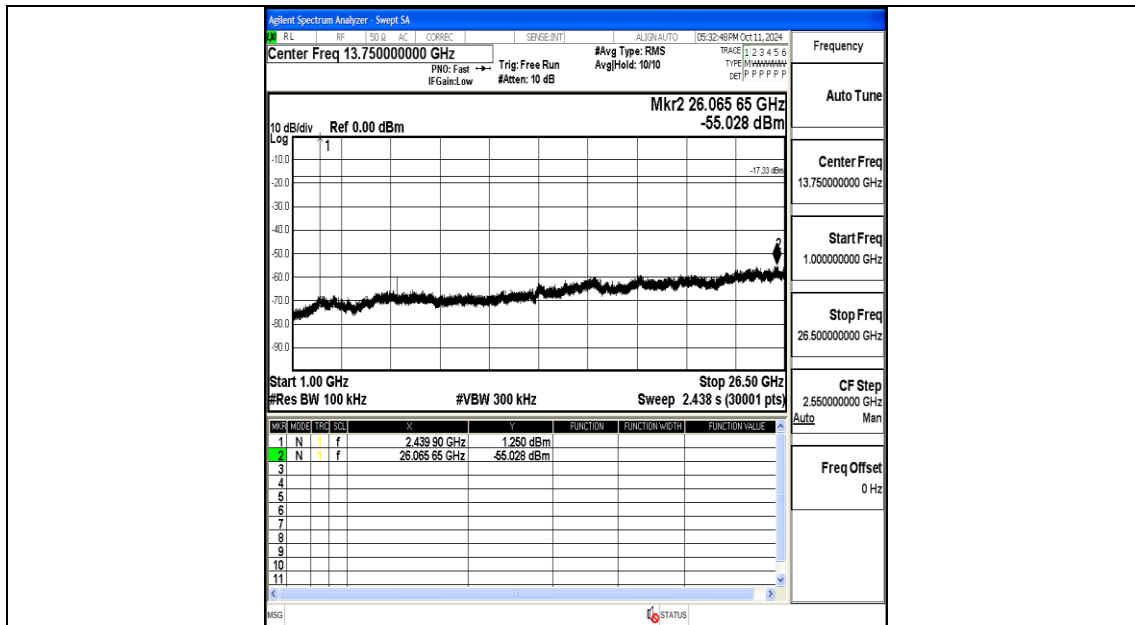
BLE_1M-Ant1-2402-1000~26500-PASS



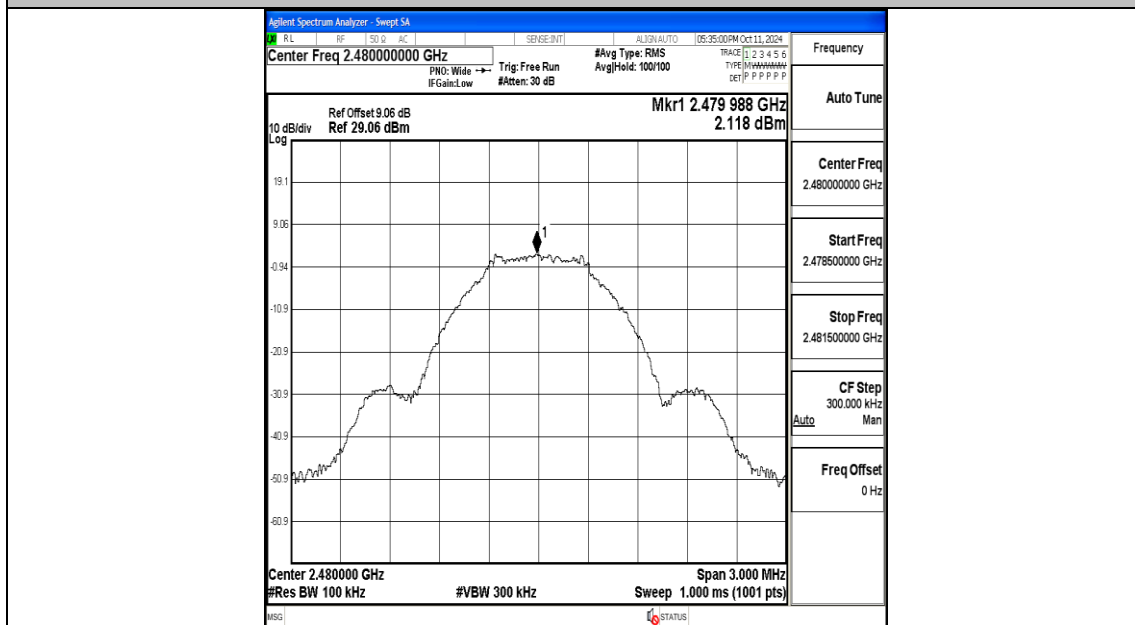
BLE_1M-Ant1-2440-0~Reference-PASS



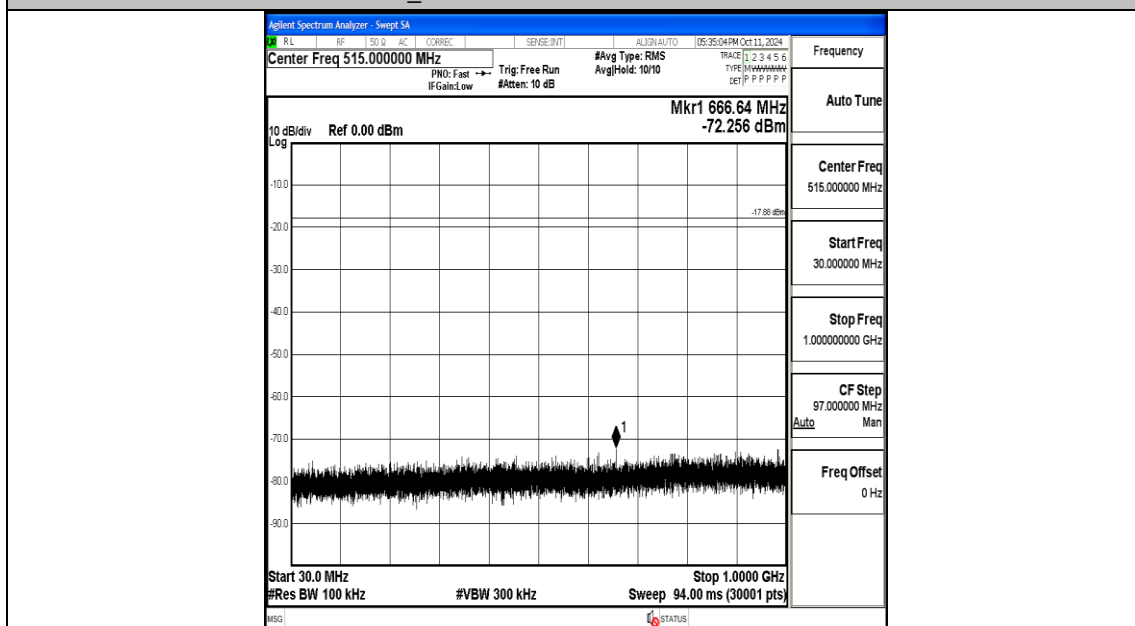
BLE_1M-Ant1-2440-30~1000-PASS



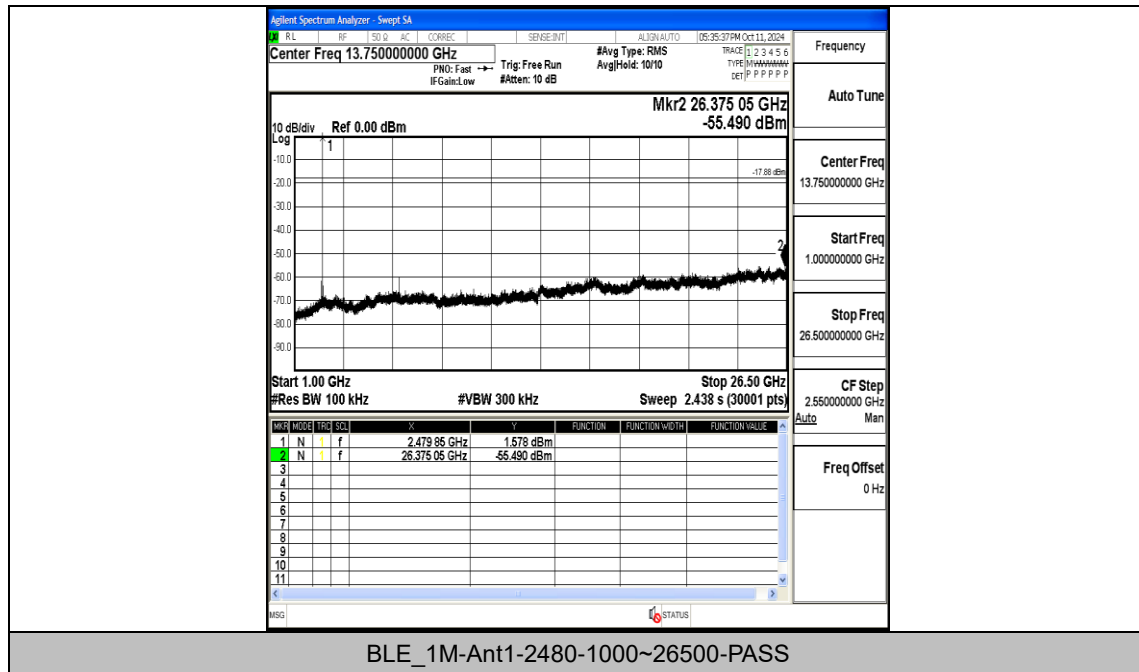
BLE_1M-Ant1-2440-1000~26500-PASS



BLE_1M-Ant1-2480-0~Reference-PASS



BLE_1M-Ant1-2480-30~1000-PASS



Appendix G: Duty Cycle

Test Result

Test Mode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor [dB]
BLE_1M	Ant1	2402	2.14	2.50	85.60	0.68
BLE_1M	Ant1	2440	2.14	2.50	85.60	0.68
BLE_1M	Ant1	2480	2.14	2.50	85.60	0.68

Test Graphs

