

Appendix Test Data for BLE (Conducted Measurement)

Product Name: Wireless Keyboard

Trade Mark: Keychron

Test Model: K10 Max

FCC ID: 2BGKB-K10MAX

Environmental Conditions

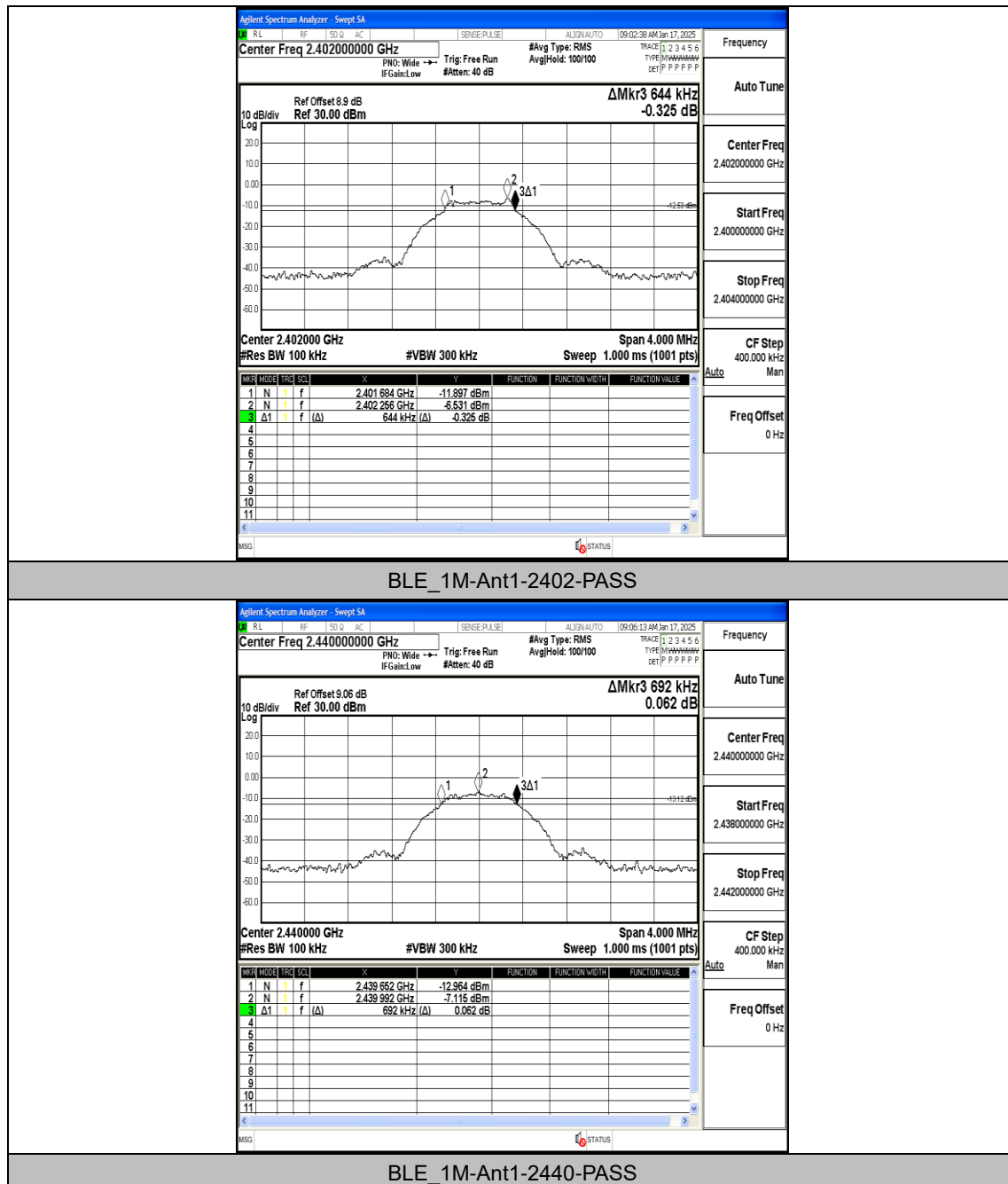
Temperature:	23.5℃
Relative Humidity:	58%
ATM Pressure:	100.0 kPa
Test Engineer:	Allen Lai
Supervised by:	Hugo Chen
NOTE	N/A

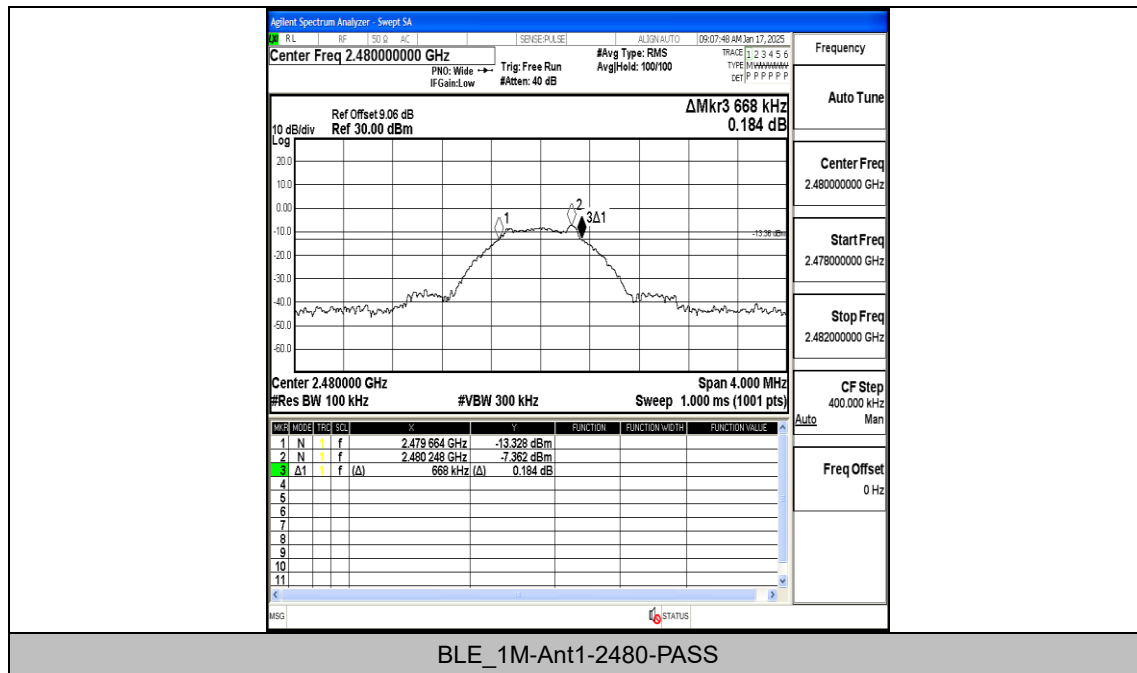
Appendix A: DTS Bandwidth

Test Result

Test Mode	Antenna	Frequency [MHz]	DTS BW [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
BLE_1M	Ant1	2402	0.644	2401.684	2402.328	0.5	PASS
BLE_1M	Ant1	2440	0.692	2439.652	2440.344	0.5	PASS
BLE_1M	Ant1	2480	0.668	2479.664	2480.332	0.5	PASS

Test Graphs



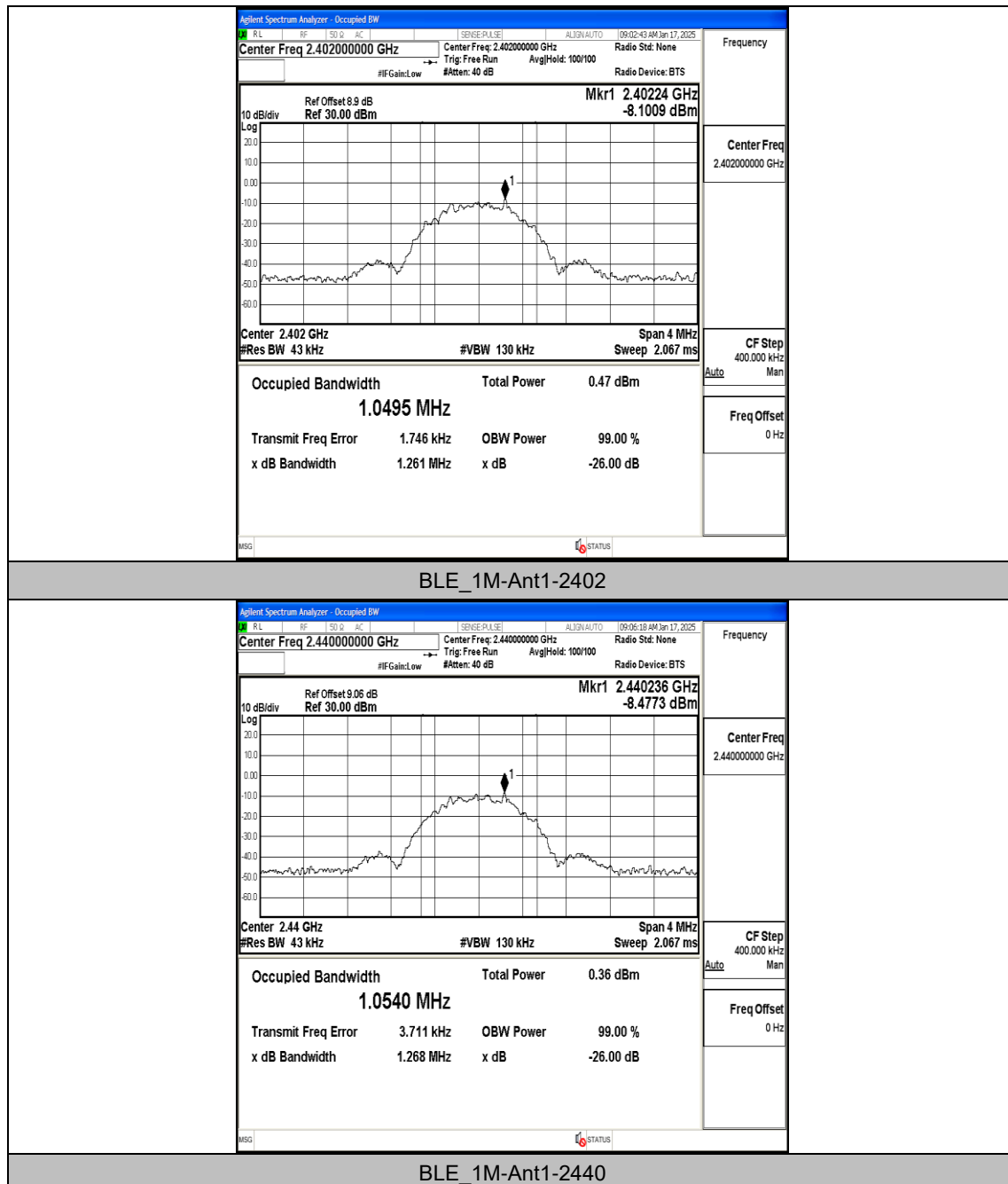


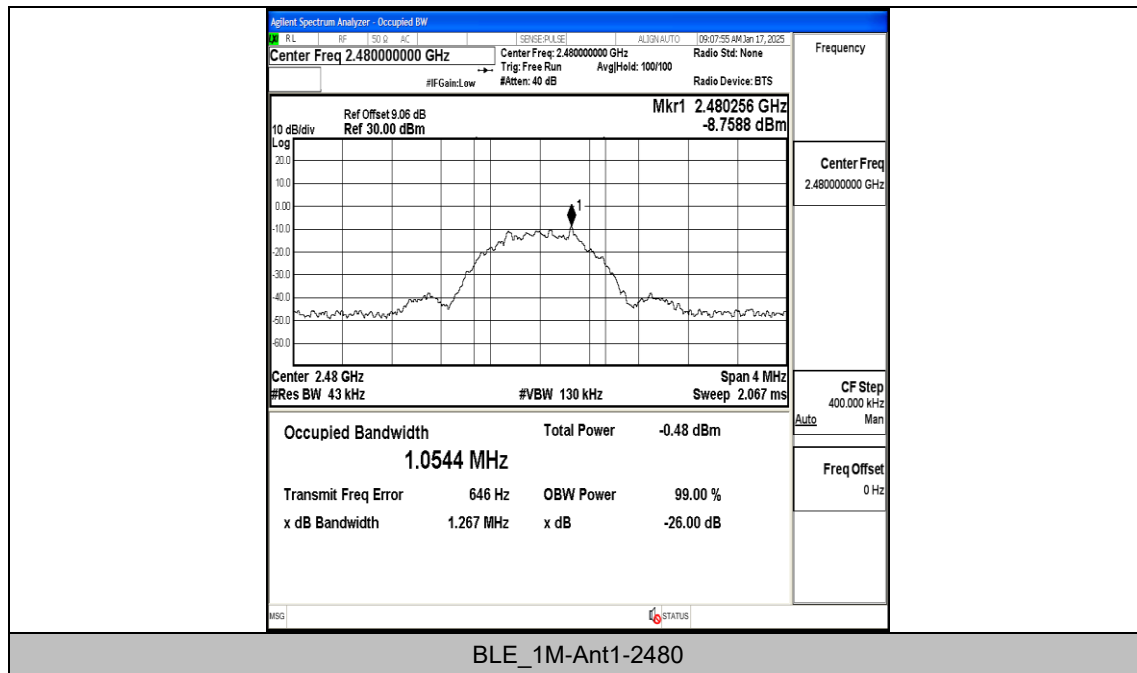
Appendix B: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Frequency [MHz]	OCB [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
BLE_1M	Ant1	2402	1.0495	2401.4770	2402.5265	---	---
BLE_1M	Ant1	2440	1.0540	2439.4767	2440.5307	---	---
BLE_1M	Ant1	2480	1.0544	2479.4735	2480.5279	---	---

Test Graphs



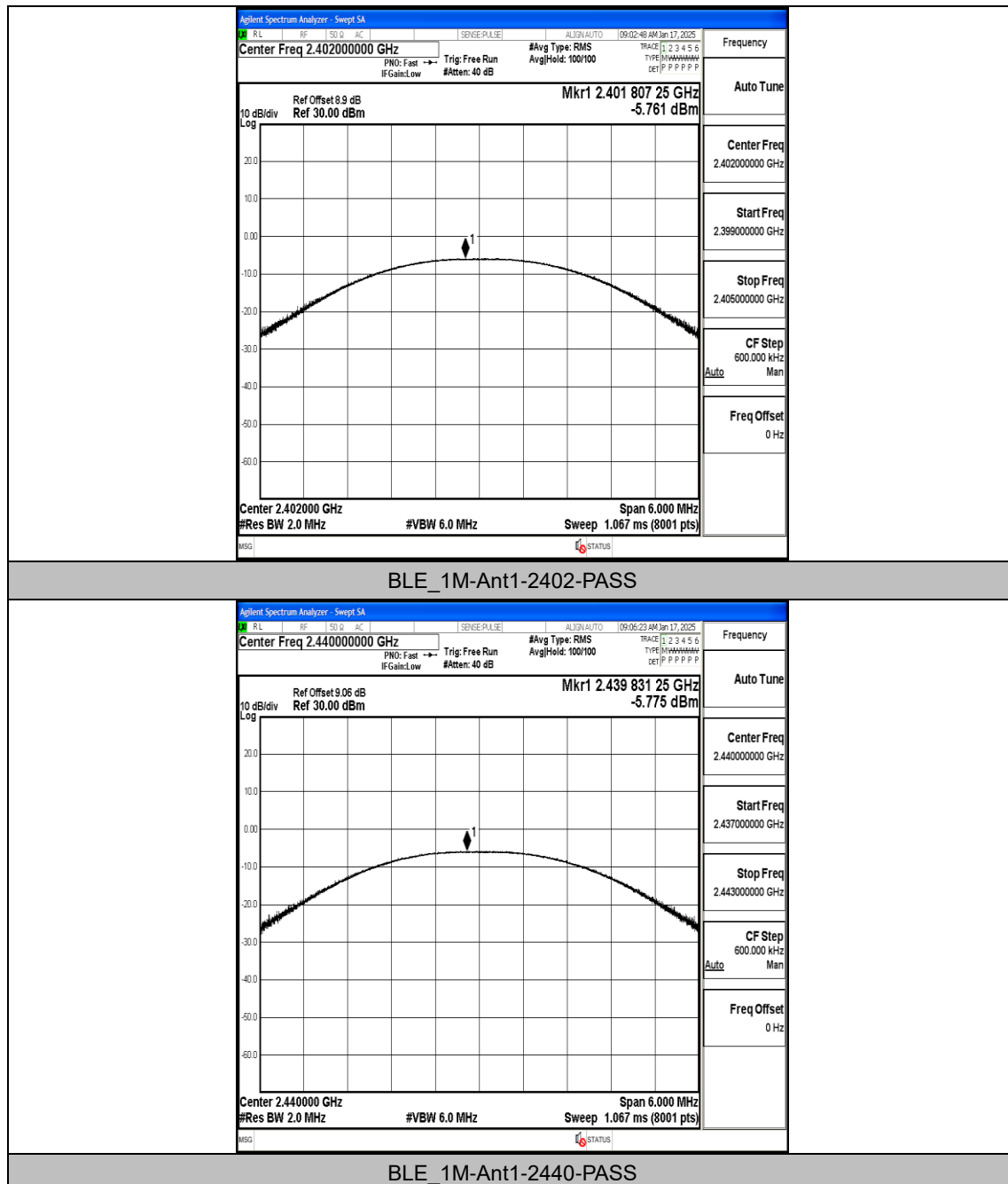


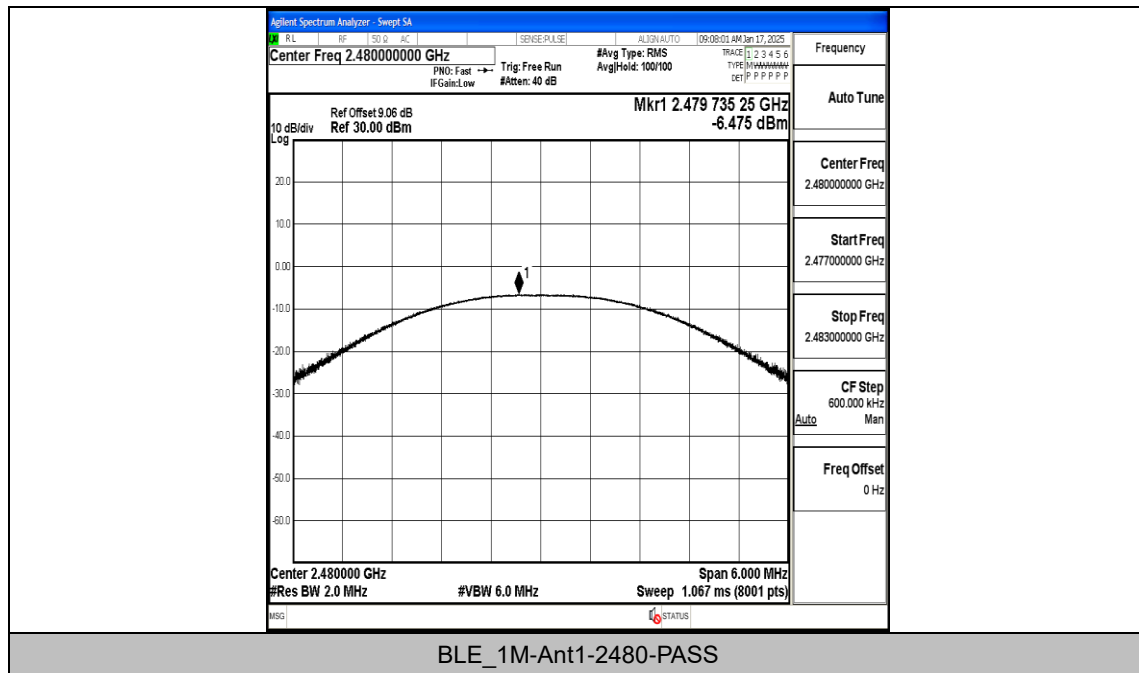
Appendix C: Maximum peak conducted output power

Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power [dBm]	Conducted Limit [dBm]	Verdict
BLE_1M	Ant1	2402	-5.76	≤30	PASS
BLE_1M	Ant1	2440	-5.78	≤30	PASS
BLE_1M	Ant1	2480	-6.48	≤30	PASS

Test Graphs Peak



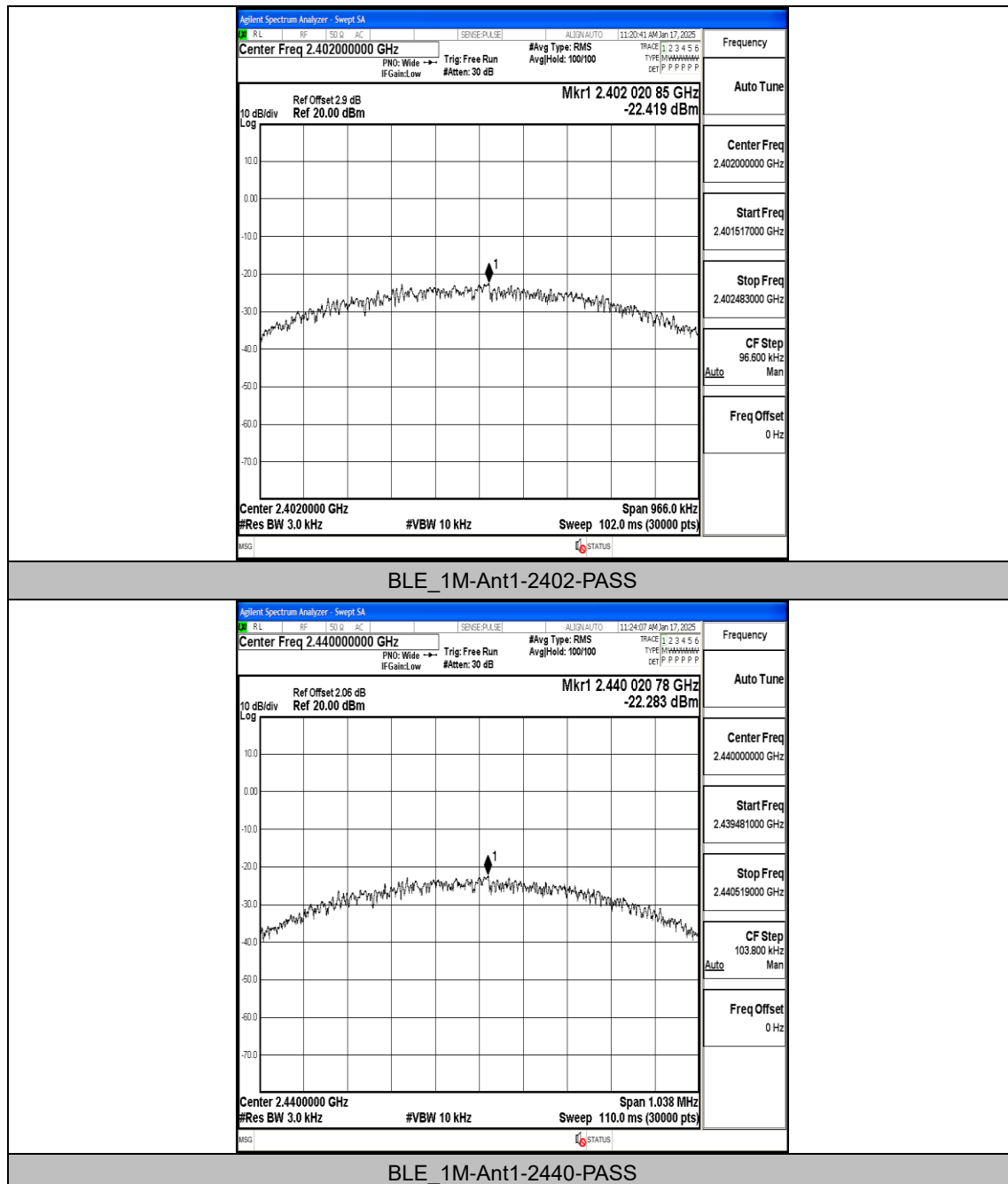


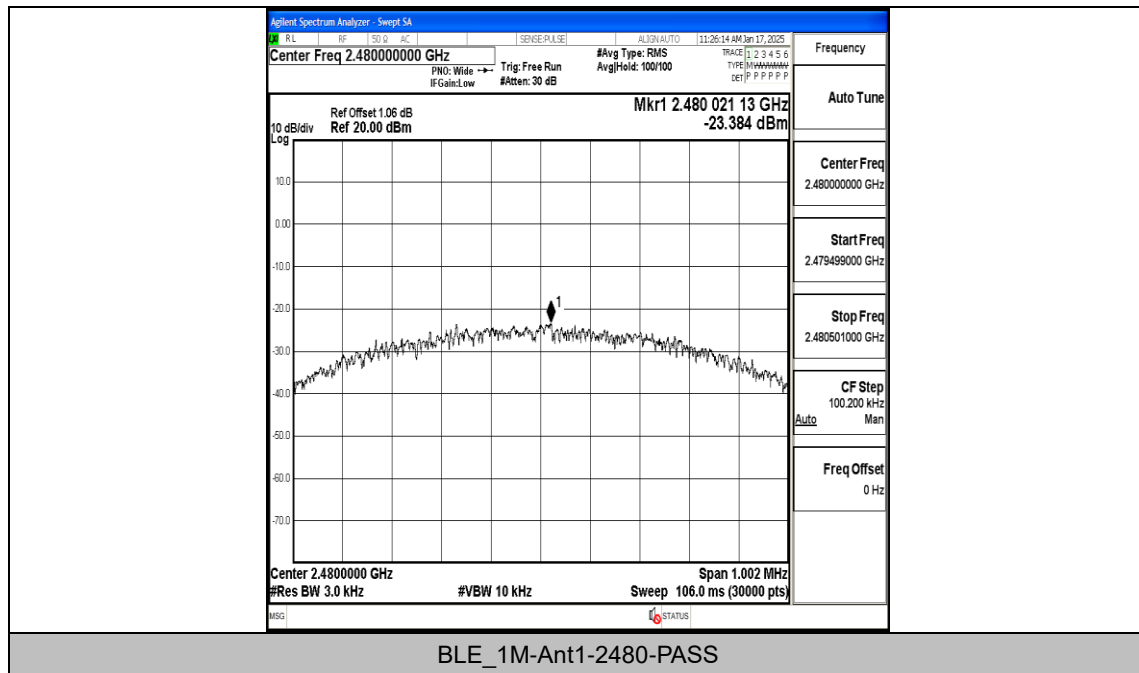
Appendix D: Maximum peak power spectral density

Test Result

Test Mode	Antenna	Frequency [MHz]	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-22.42	≤8.00	PASS
BLE_1M	Ant1	2440	-22.28	≤8.00	PASS
BLE_1M	Ant1	2480	-23.38	≤8.00	PASS

Test Graphs



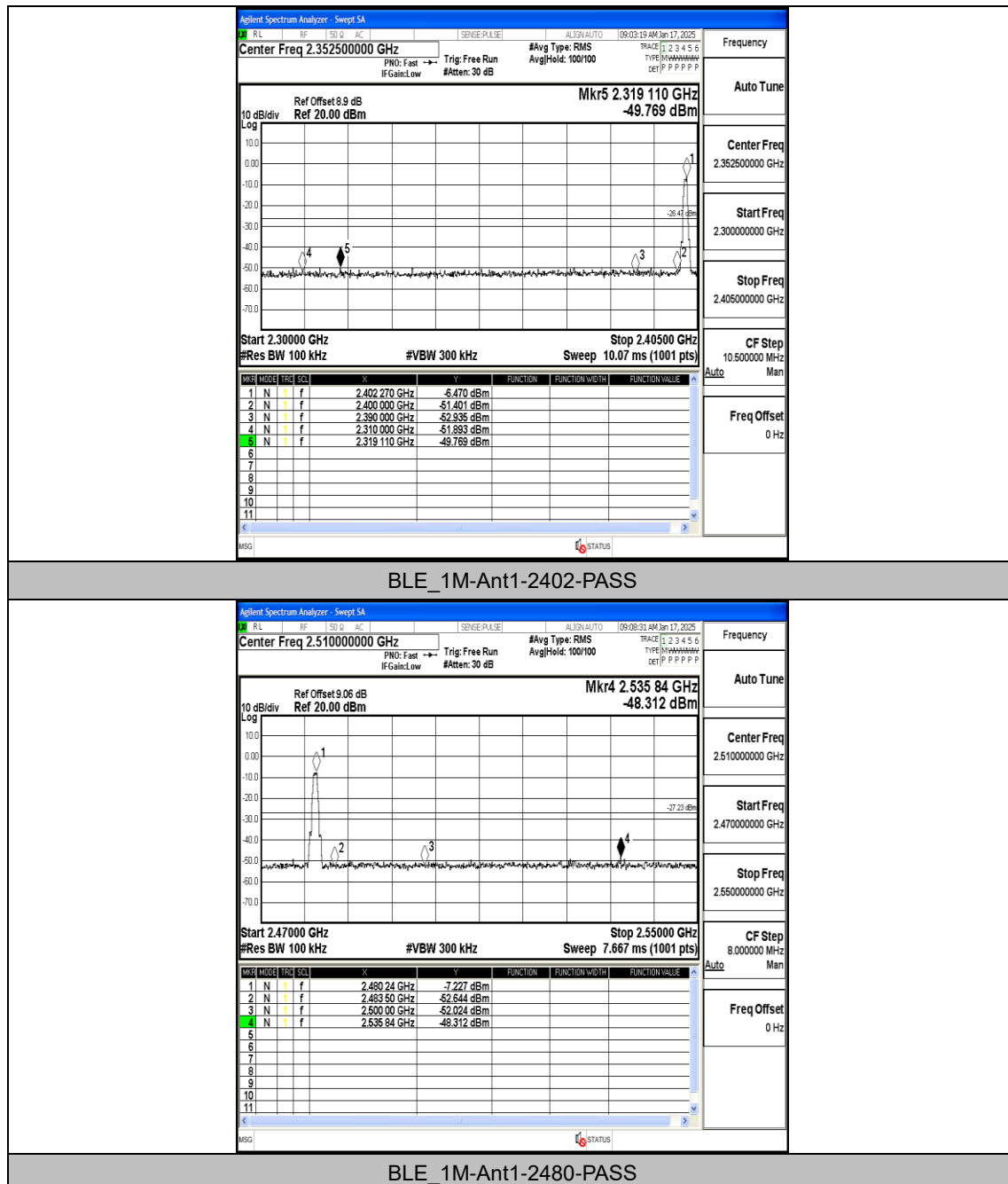


Appendix E: Band edge measurements

Test Result

Test Mode	Antenna	Ch. Name	Frequency [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	-6.47	-49.77	≤ -26.47	PASS
BLE_1M	Ant1	High	2480	-7.23	-48.31	≤ -27.23	PASS

Test Graphs

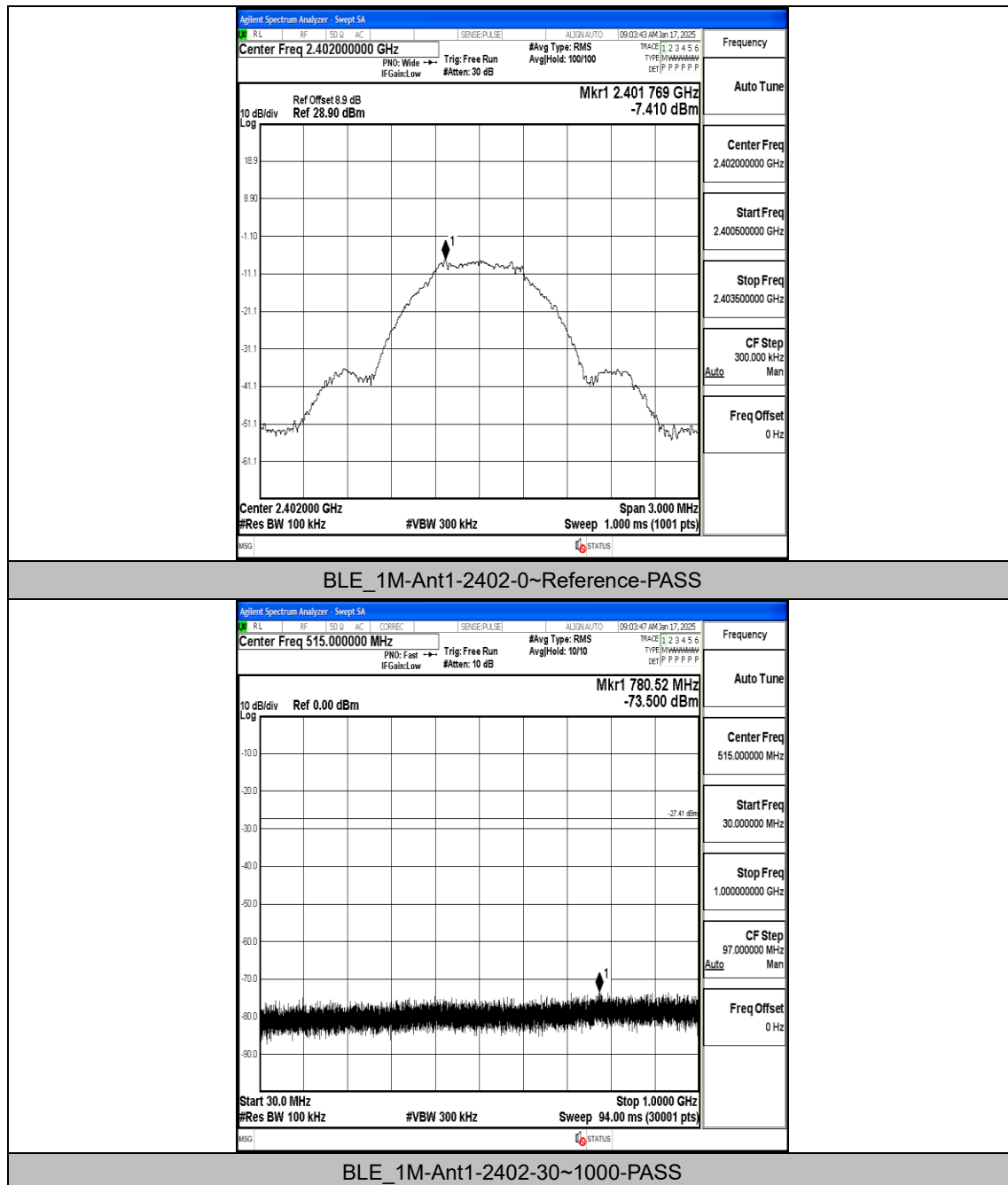


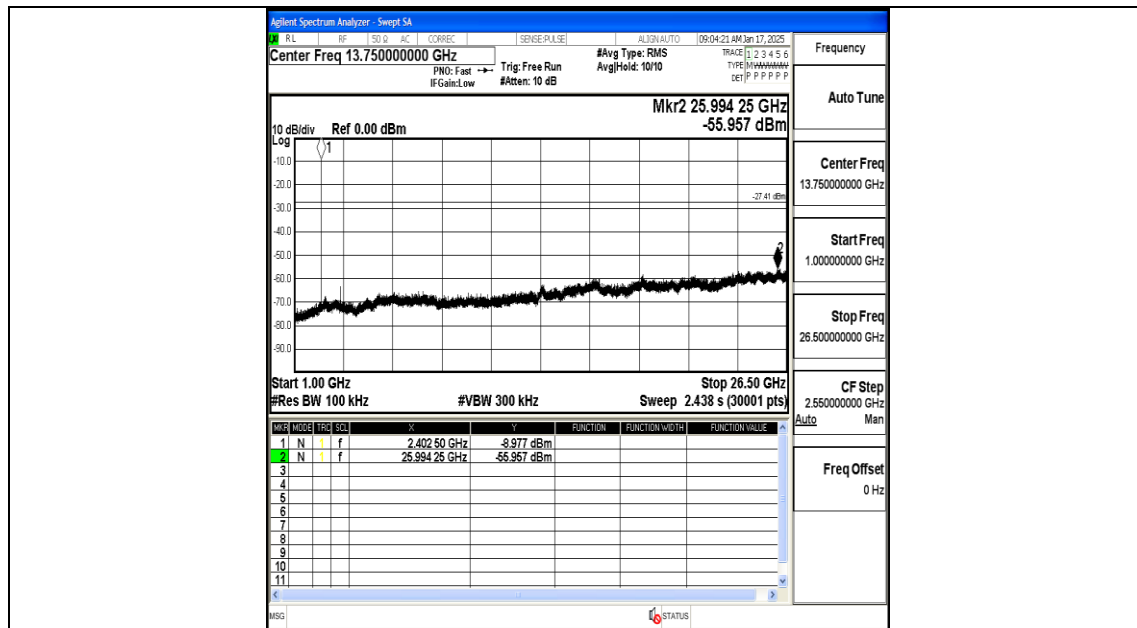
Appendix F: Conducted Spurious Emission

Test Result

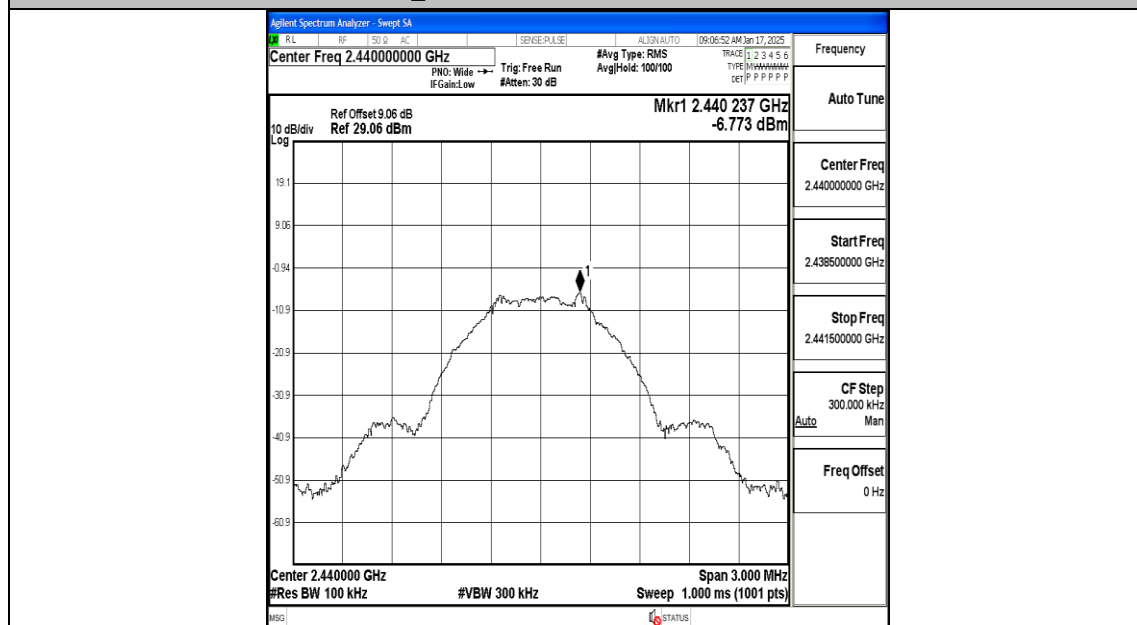
Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	-7.41	-7.41	---	PASS
BLE_1M	Ant1	2402	30~1000	-7.41	-73.5	≤-27.41	PASS
BLE_1M	Ant1	2402	1000~26500	-7.41	-55.96	≤-27.41	PASS
BLE_1M	Ant1	2440	0~Reference	-6.77	-6.77	---	PASS
BLE_1M	Ant1	2440	30~1000	-6.77	-73.14	≤-26.77	PASS
BLE_1M	Ant1	2440	1000~26500	-6.77	-55.23	≤-26.77	PASS
BLE_1M	Ant1	2480	0~Reference	-7.30	-7.30	---	PASS
BLE_1M	Ant1	2480	30~1000	-7.30	-73.24	≤-27.3	PASS
BLE_1M	Ant1	2480	1000~26500	-7.30	-55.23	≤-27.3	PASS

Test Graphs

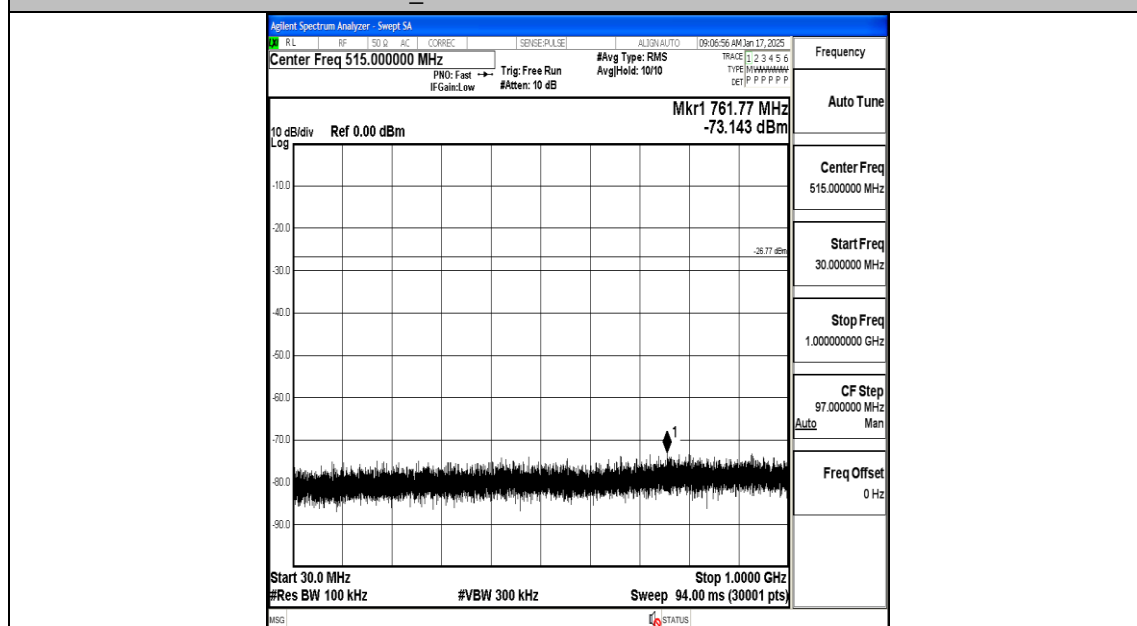




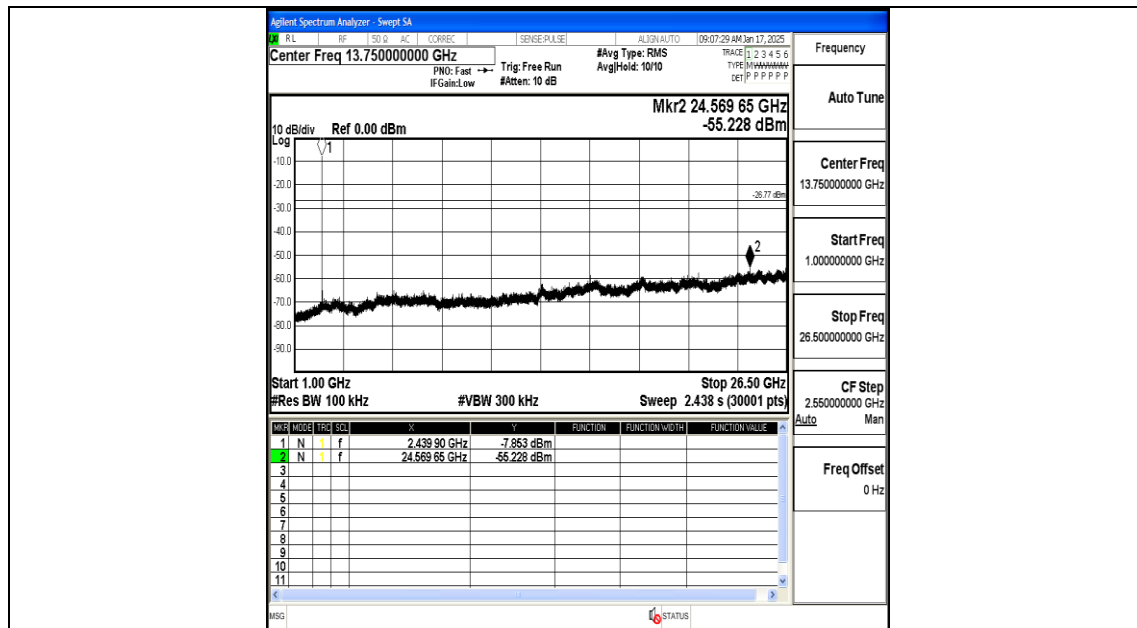
BLE_1M-Ant1-2402-1000~26500-PASS



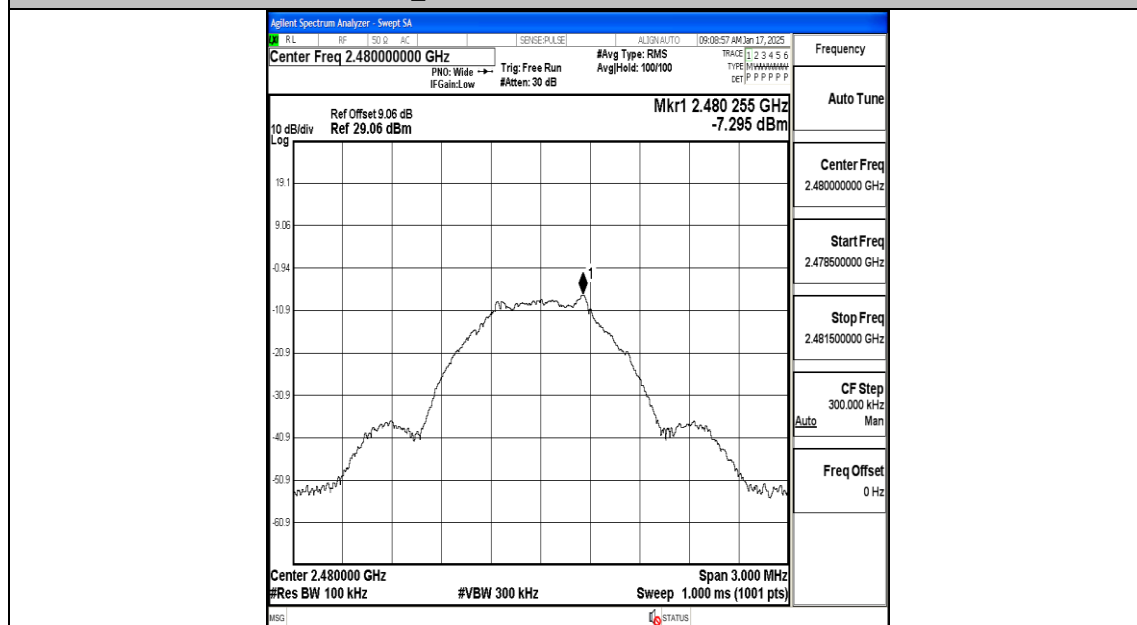
BLE_1M-Ant1-2440-0~Reference-PASS



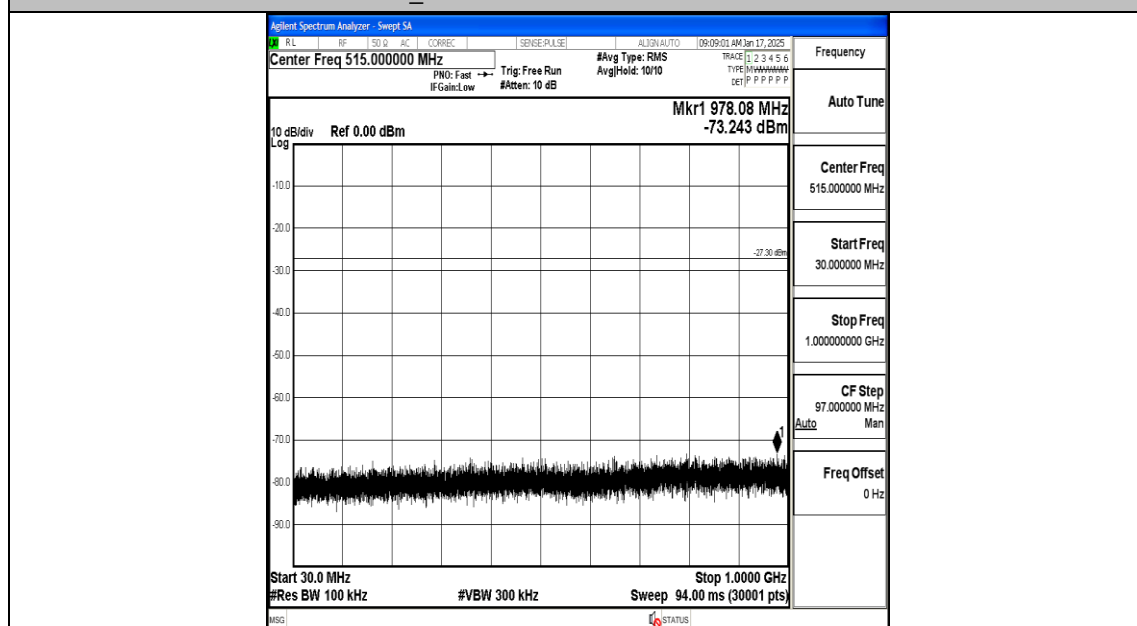
BLE_1M-Ant1-2440-30~1000-PASS



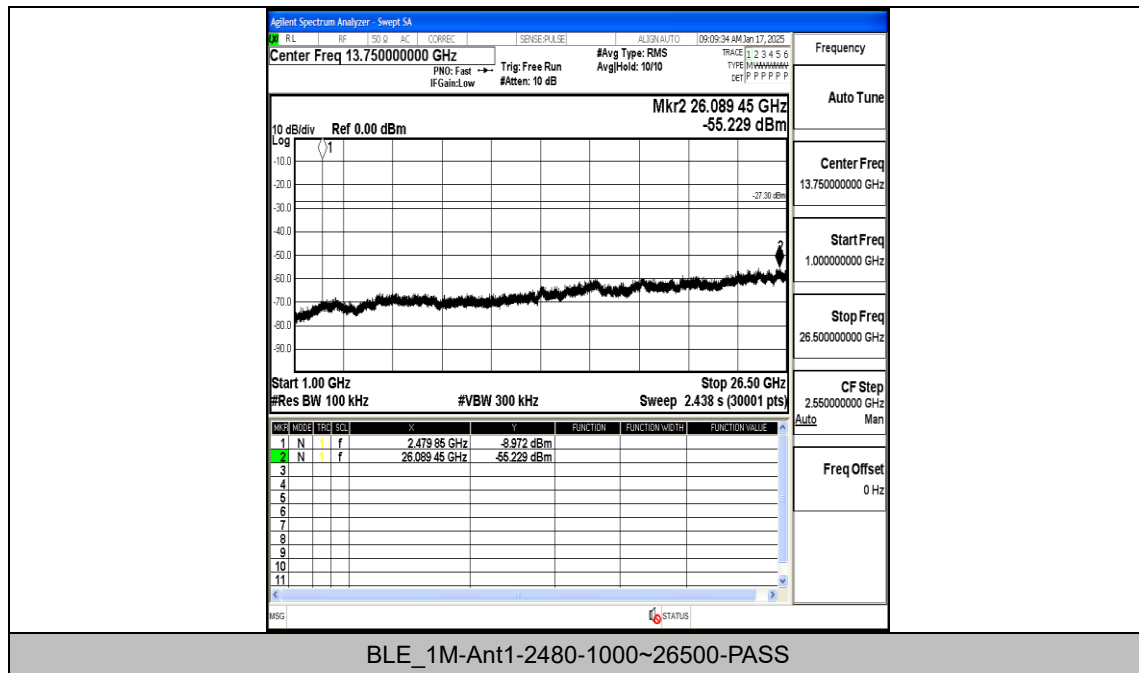
BLE_1M-Ant1-2440-1000~26500-PASS



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	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

