

Appendix Test Data for BLE (Conducted Measurement)

Product Name: Wireless Keyboard

Trade Mark: Keychron

Test Model: K8 Max

FCC ID: 2BGKB-K8MAX

Environmental Conditions

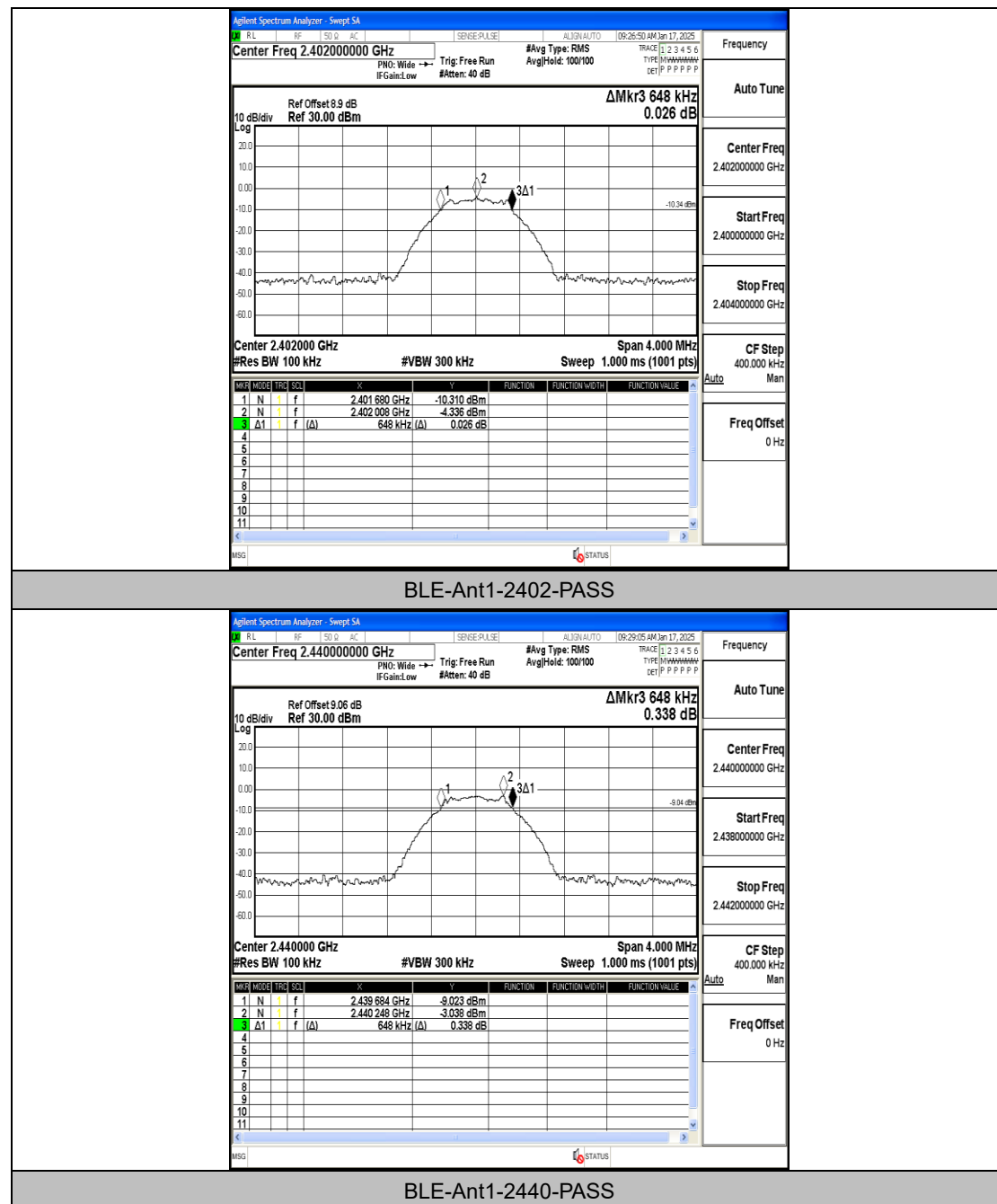
Temperature:	23.5℃
Relative Humidity:	58%
ATM Pressure:	100.0 kPa
Test Engineer:	Allen Lai
Supervised by:	Hugo Chen
NOTE	N/A

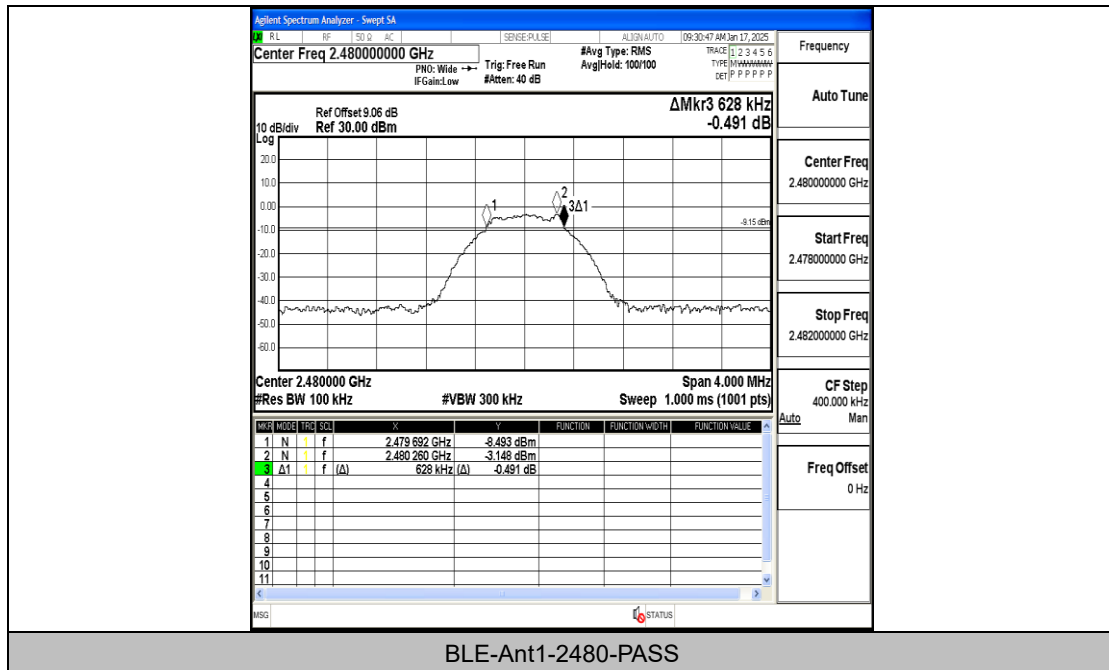
Appendix A: DTS Bandwidth

Test Result

Test Mode	Antenna	Frequency [MHz]	DTS BW [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
BLE	Ant1	2402	0.648	2401.680	2402.328	0.5	PASS
BLE	Ant1	2440	0.648	2439.684	2440.332	0.5	PASS
BLE	Ant1	2480	0.628	2479.692	2480.320	0.5	PASS

Test Graphs



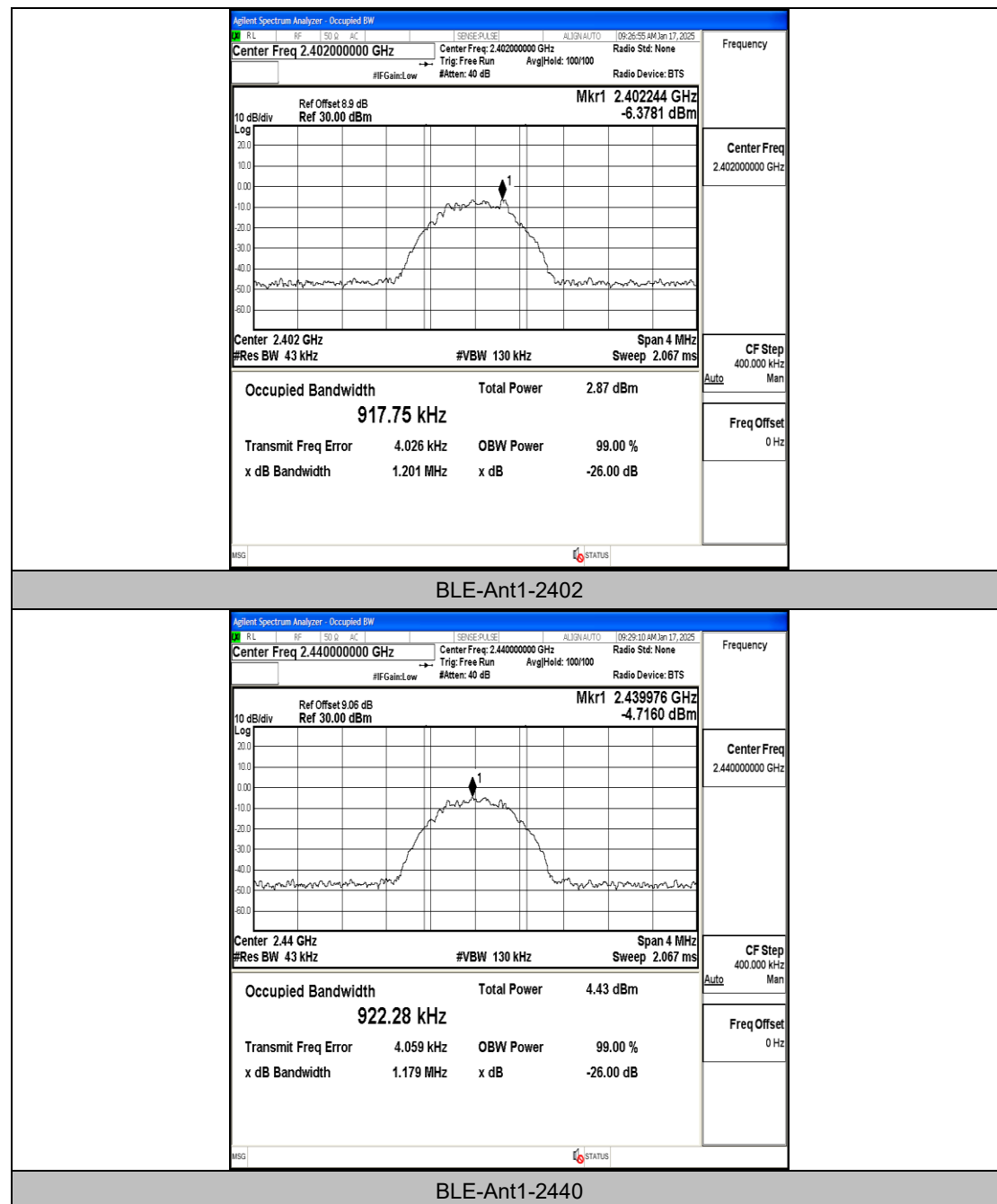


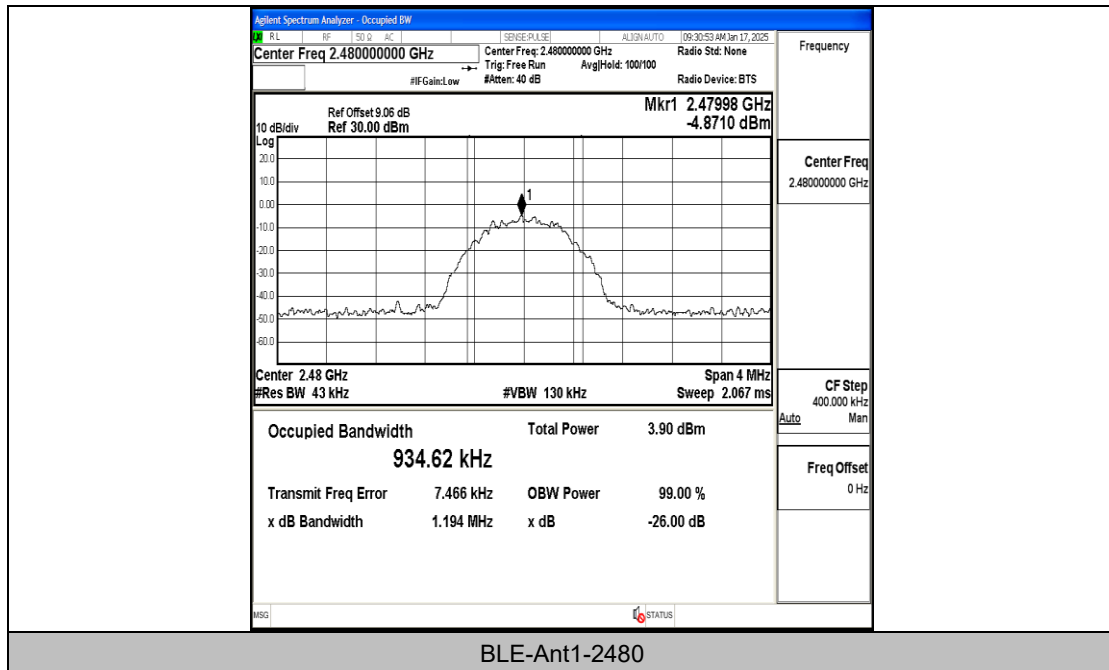
Appendix B: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Frequency [MHz]	OCB [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
BLE	Ant1	2402	0.91775	2401.5452	2402.4629	---	---
BLE	Ant1	2440	0.92228	2439.5429	2440.4652	---	---
BLE	Ant1	2480	0.93462	2479.5402	2480.4748	---	---

Test Graphs



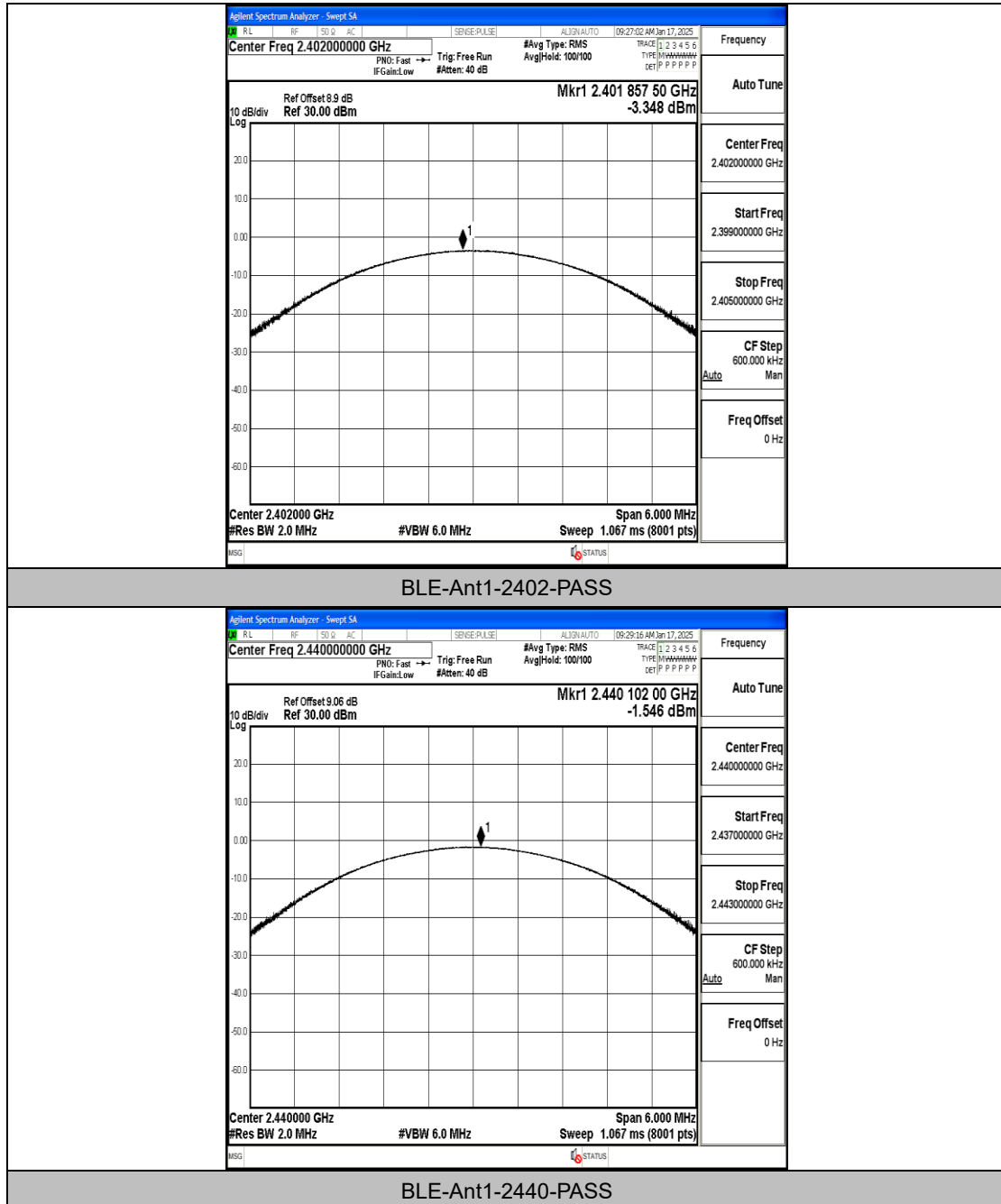


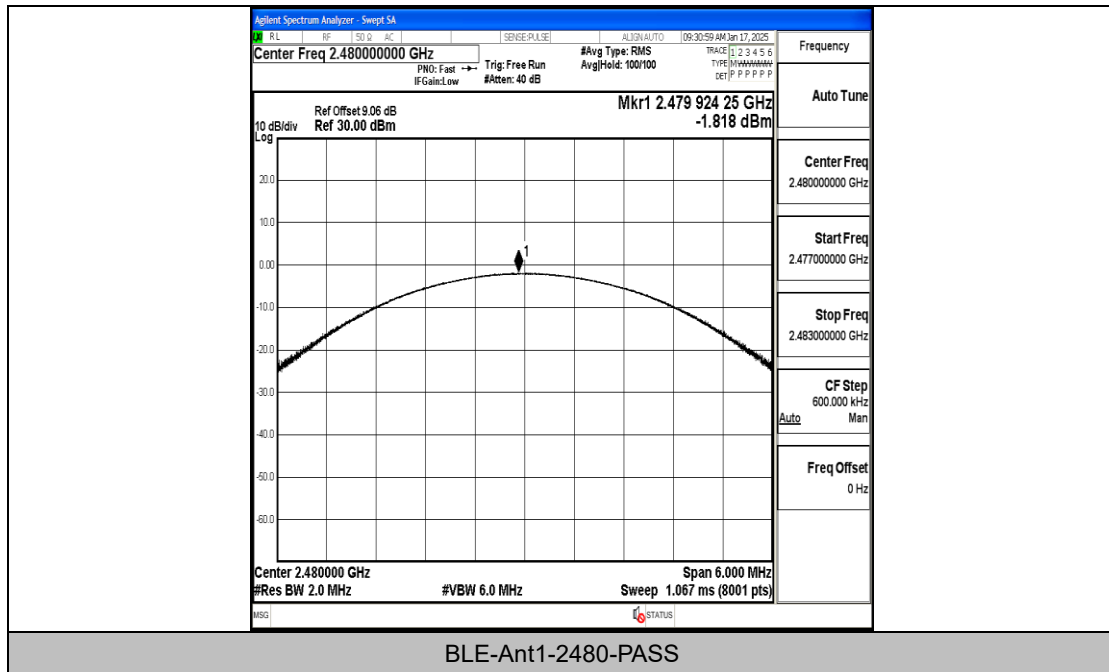
Appendix C: Maximum peak conducted output power

Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power [dBm]	Conducted Limit [dBm]	Verdict
BLE	Ant1	2402	-3.35	≤30	PASS
BLE	Ant1	2440	-1.55	≤30	PASS
BLE	Ant1	2480	-1.82	≤30	PASS

Test Graphs Peak



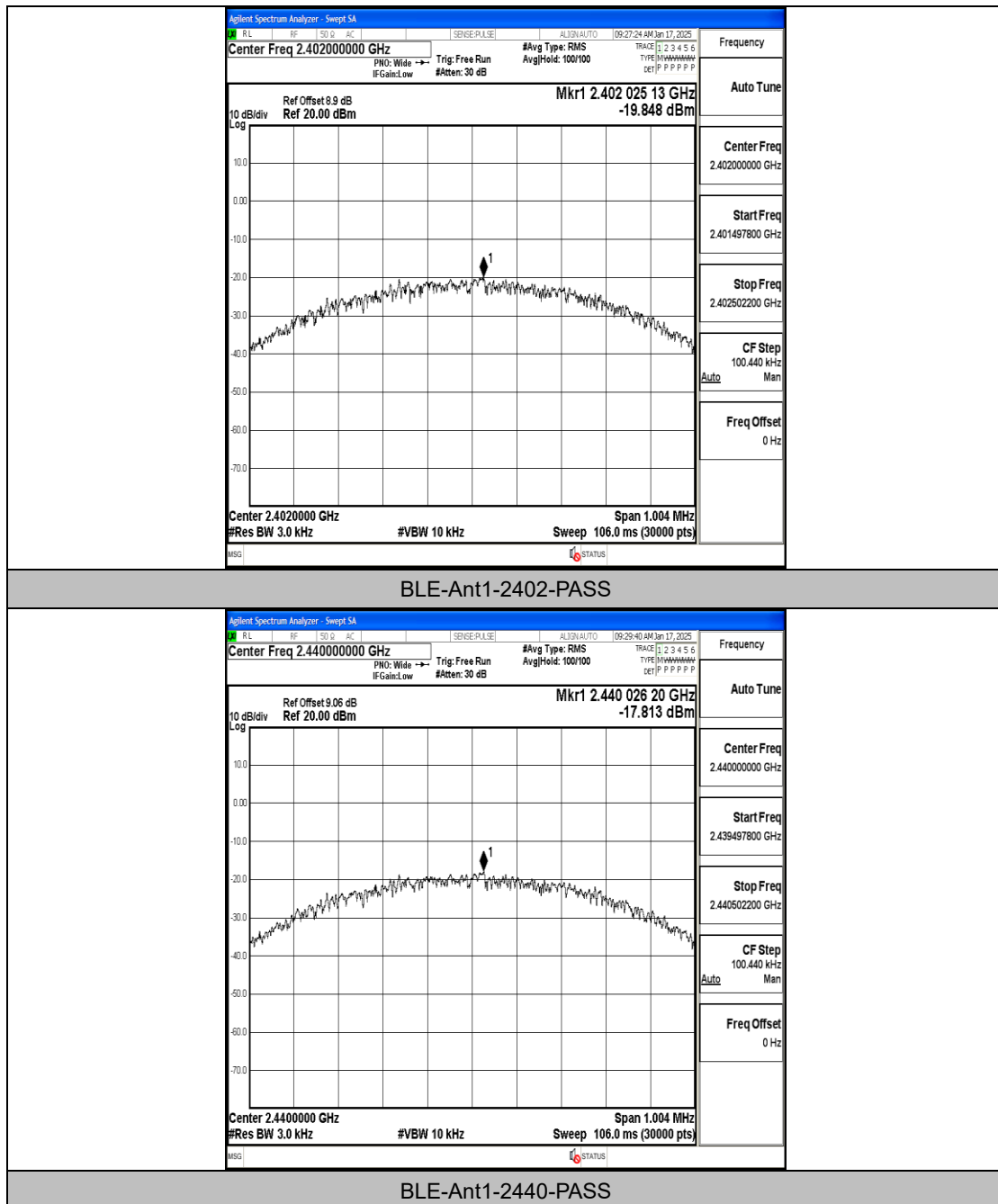


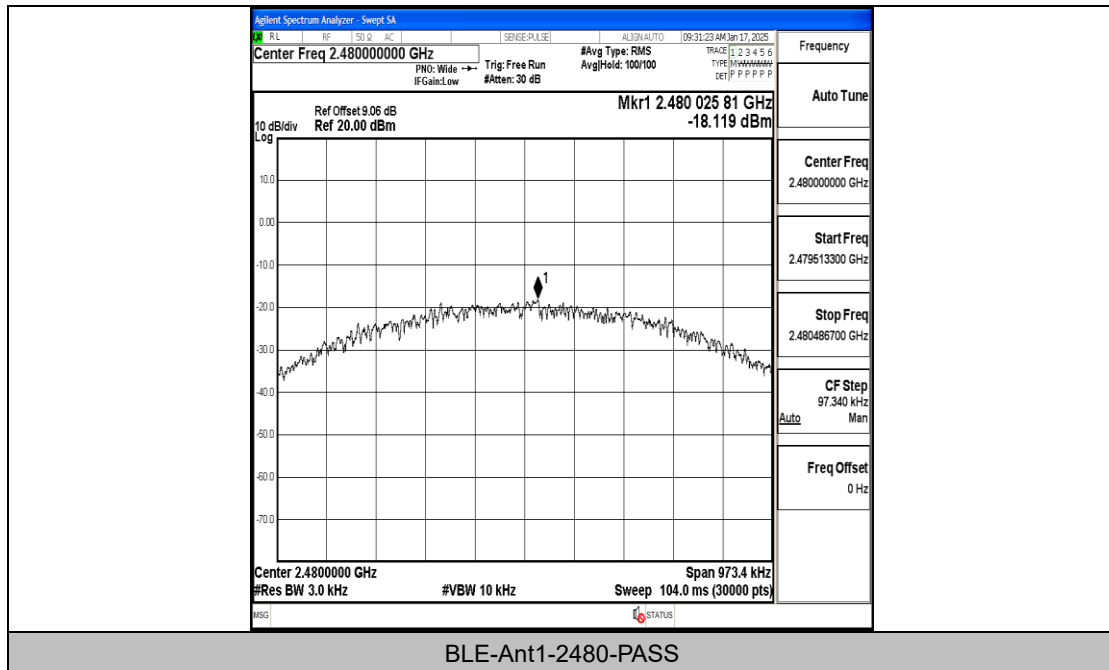
Appendix D: Maximum peak power spectral density

Test Result

Test Mode	Antenna	Frequency [MHz]	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
BLE	Ant1	2402	-19.85	≤8.00	PASS
BLE	Ant1	2440	-17.81	≤8.00	PASS
BLE	Ant1	2480	-18.12	≤8.00	PASS

Test Graphs



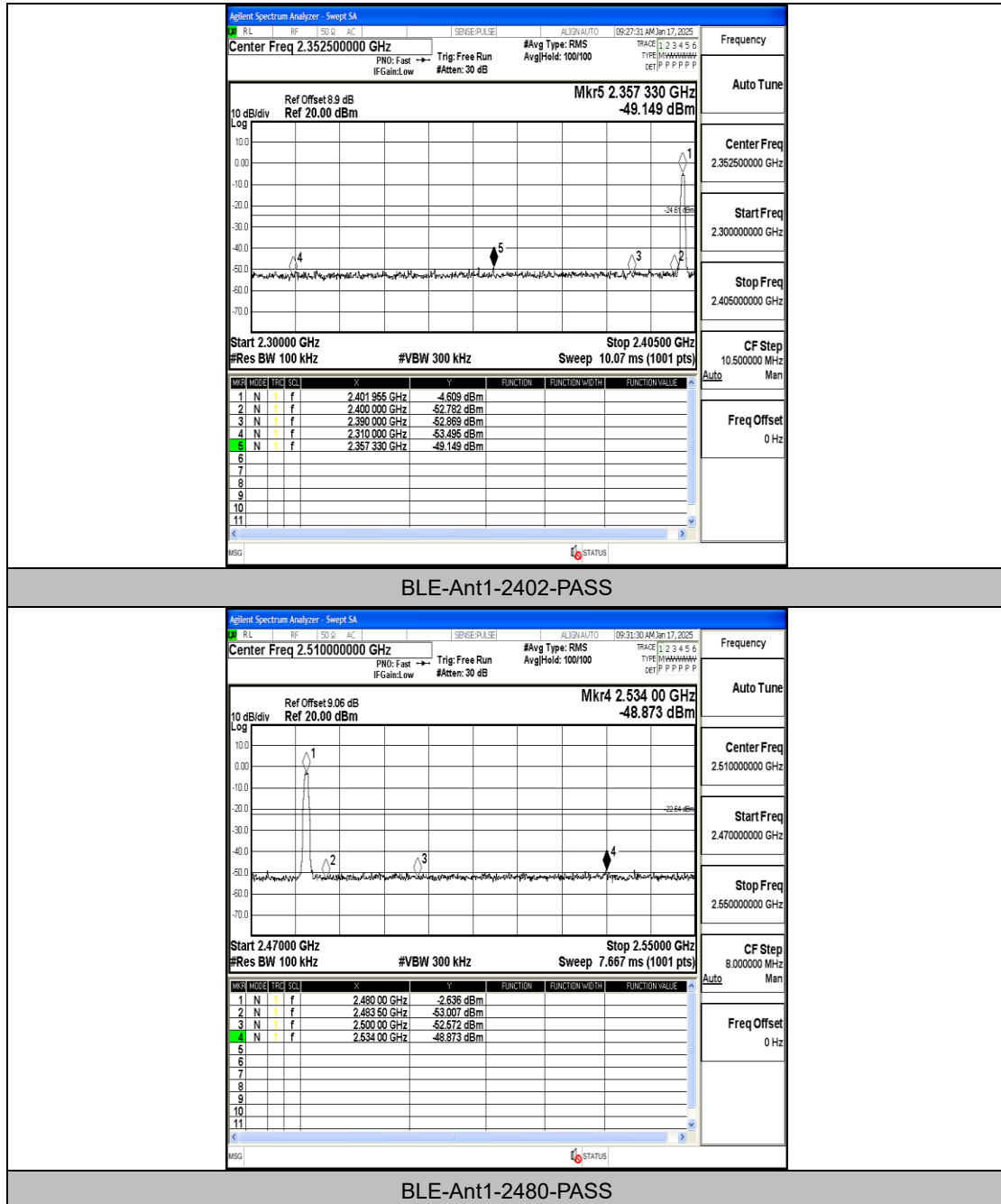


Appendix E: Band edge measurements

Test Result

Test Mode	Antenna	Ch. Name	Frequency [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE	Ant1	Low	2402	-4.61	-49.15	≤ -24.61	PASS
BLE	Ant1	High	2480	-2.64	-48.87	≤ -22.64	PASS

Test Graphs

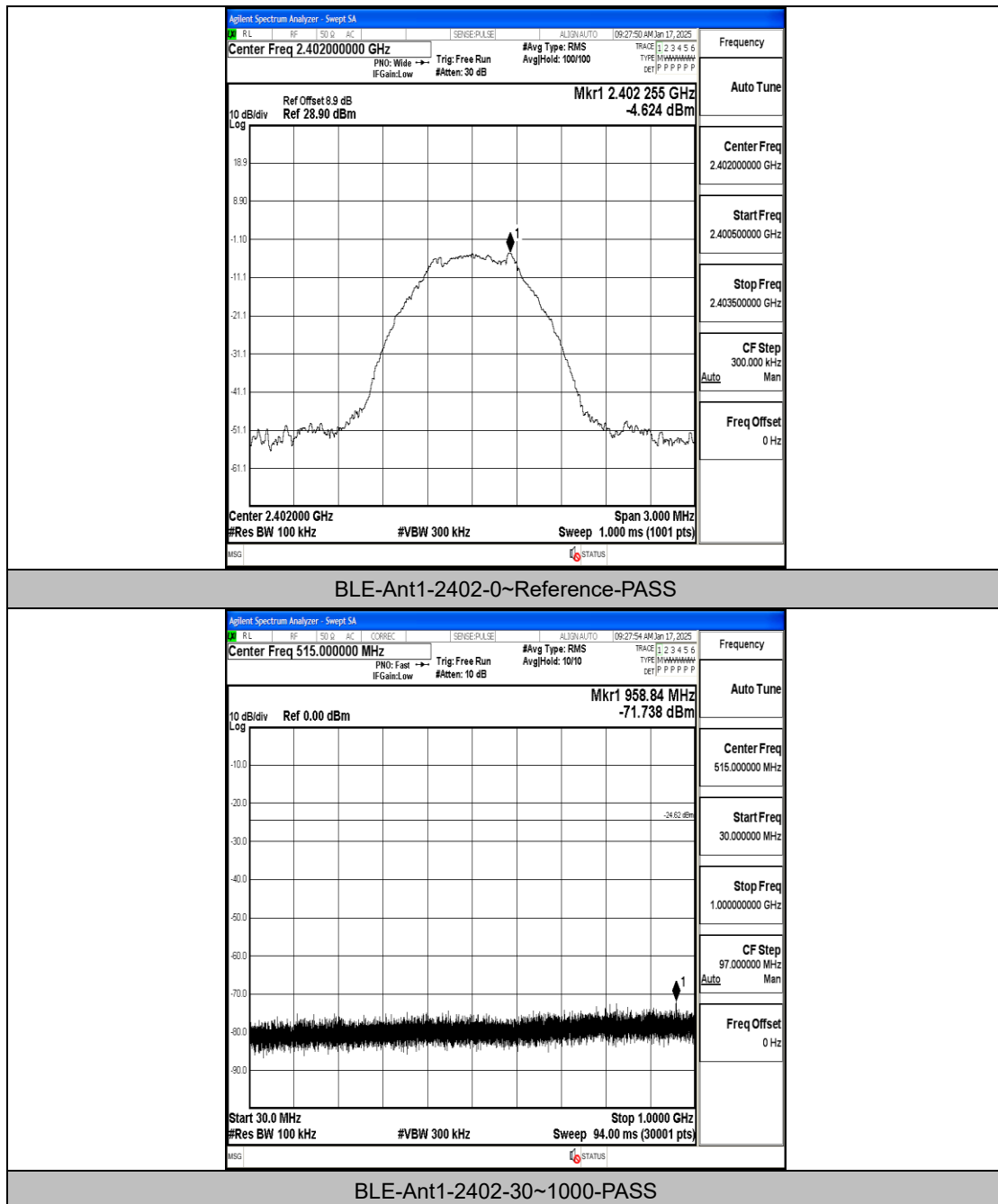


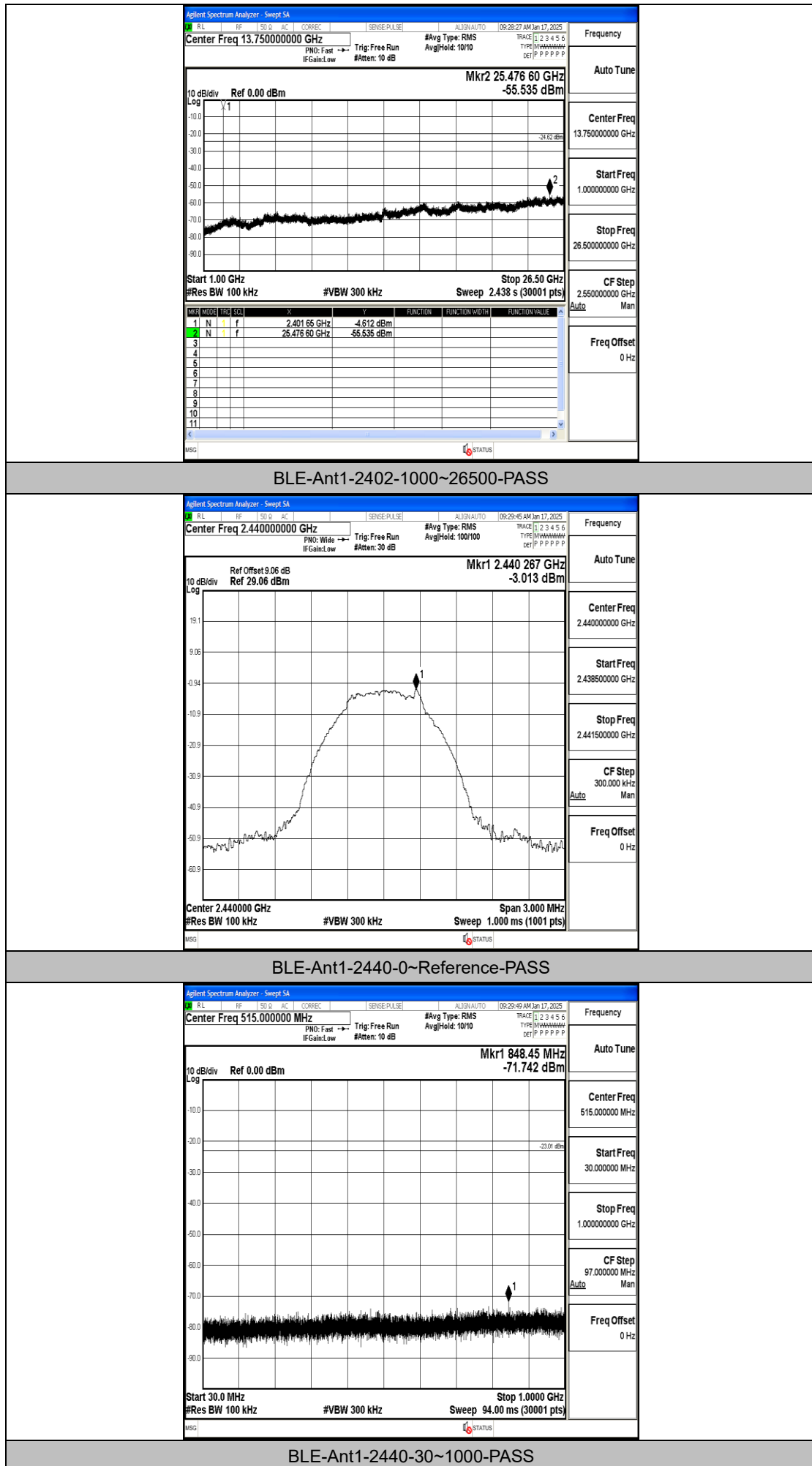
Appendix F: Conducted Spurious Emission

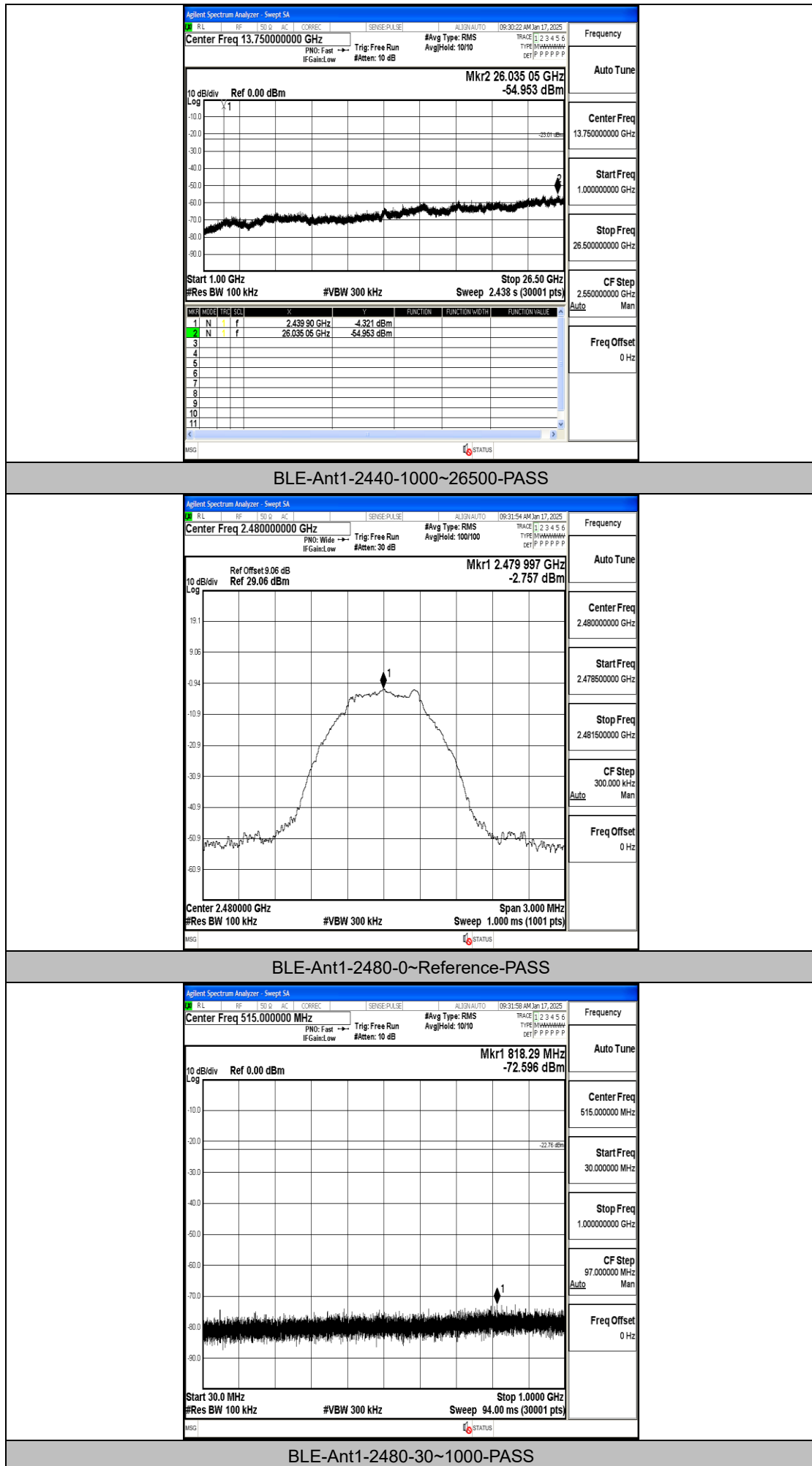
Test Result

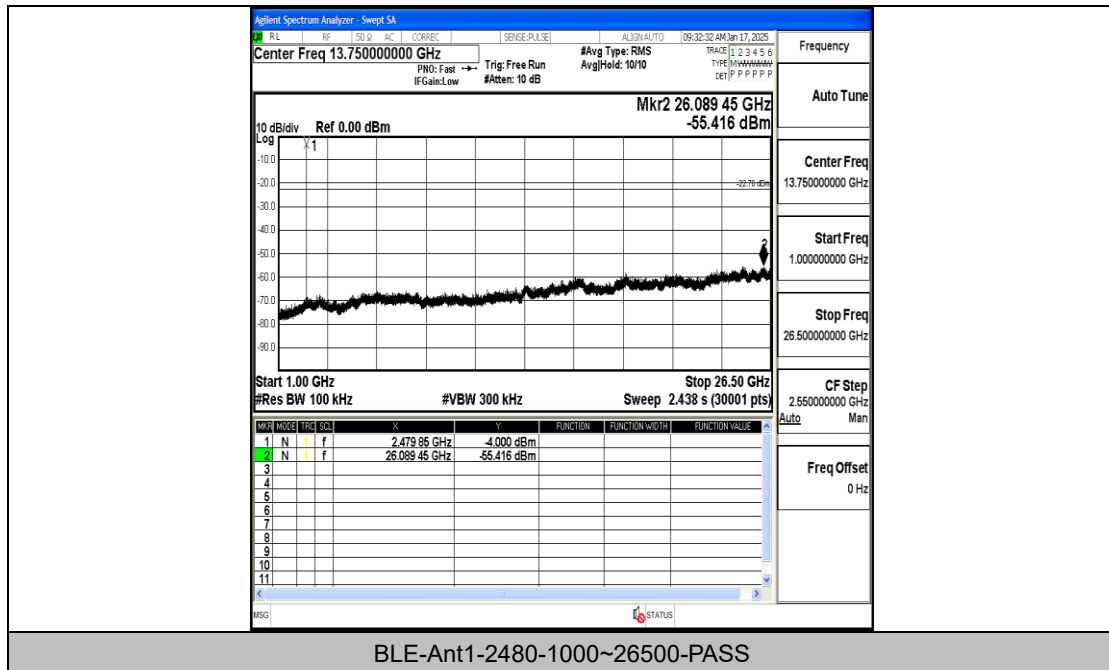
Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE	Ant1	2402	0~Reference	-4.62	-4.62	---	PASS
BLE	Ant1	2402	30~1000	-4.62	-71.74	≤-24.62	PASS
BLE	Ant1	2402	1000~26500	-4.62	-55.54	≤-24.62	PASS
BLE	Ant1	2440	0~Reference	-3.01	-3.01	---	PASS
BLE	Ant1	2440	30~1000	-3.01	-71.74	≤-23.01	PASS
BLE	Ant1	2440	1000~26500	-3.01	-54.95	≤-23.01	PASS
BLE	Ant1	2480	0~Reference	-2.76	-2.76	---	PASS
BLE	Ant1	2480	30~1000	-2.76	-72.6	≤-22.76	PASS
BLE	Ant1	2480	1000~26500	-2.76	-55.42	≤-22.76	PASS

Test Graphs









Appendix G: Duty Cycle

Test Result

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

Test Graphs

