

Appendix Test Data for BLE (Conducted Measurement)

Product Name: Wireless Keyboard

Trade Mark: Lemokey, Keychron

Test Model: P1 Pro

FCC ID: 2BGKB-P1

Environmental Conditions

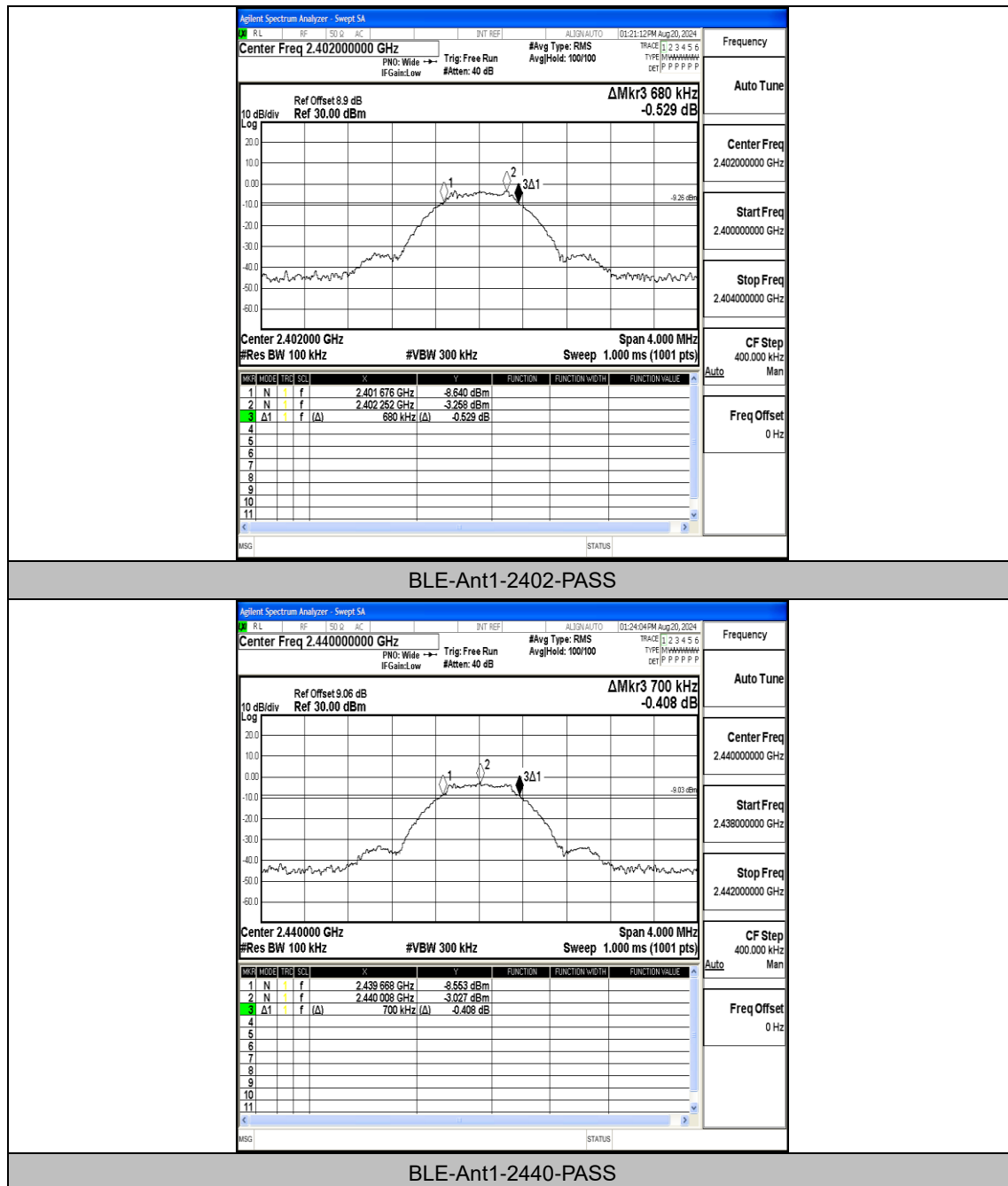
Temperature:	23.8℃
Relative Humidity:	58%
ATM Pressure:	100.0 kPa
Test Engineer:	Allen Lai
Supervised by:	Hugo Chen
NOTE	N/A

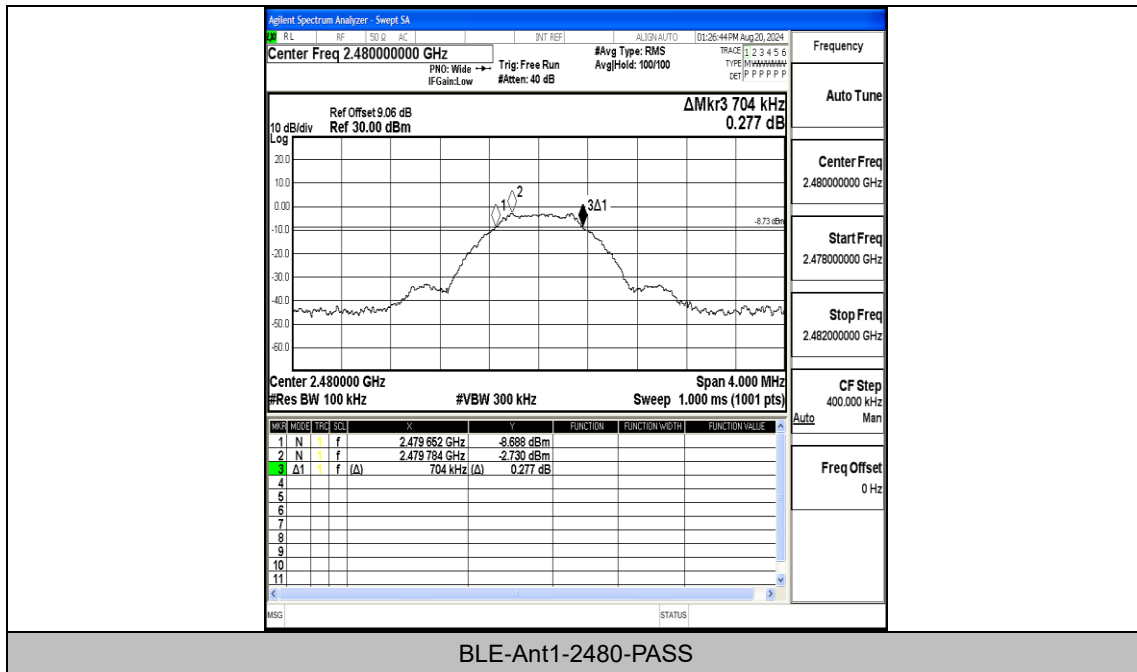
Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE	Ant1	2402	0.680	2401.676	2402.356	0.5	PASS
BLE	Ant1	2440	0.700	2439.668	2440.368	0.5	PASS
BLE	Ant1	2480	0.704	2479.652	2480.356	0.5	PASS

Test Graphs



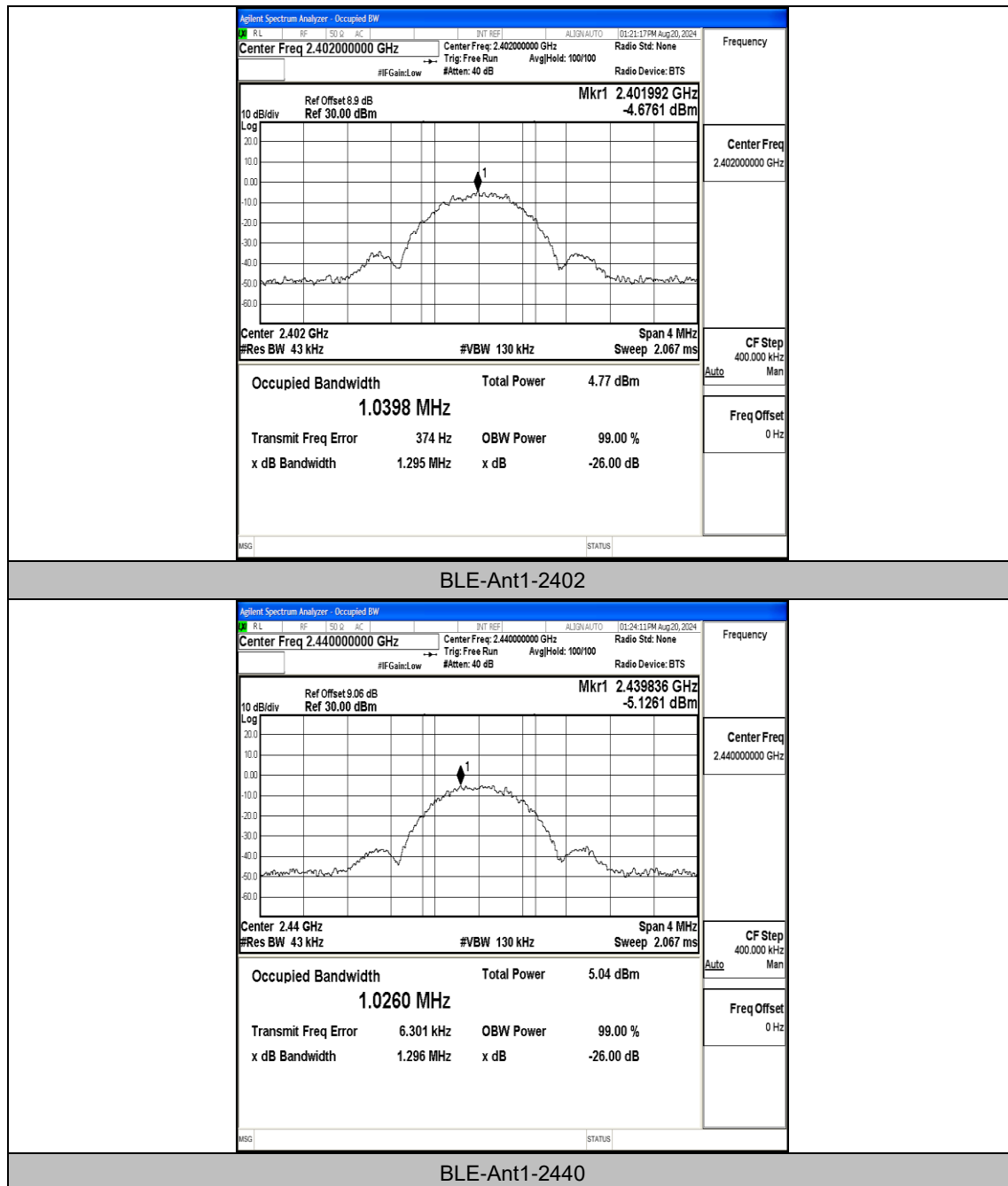


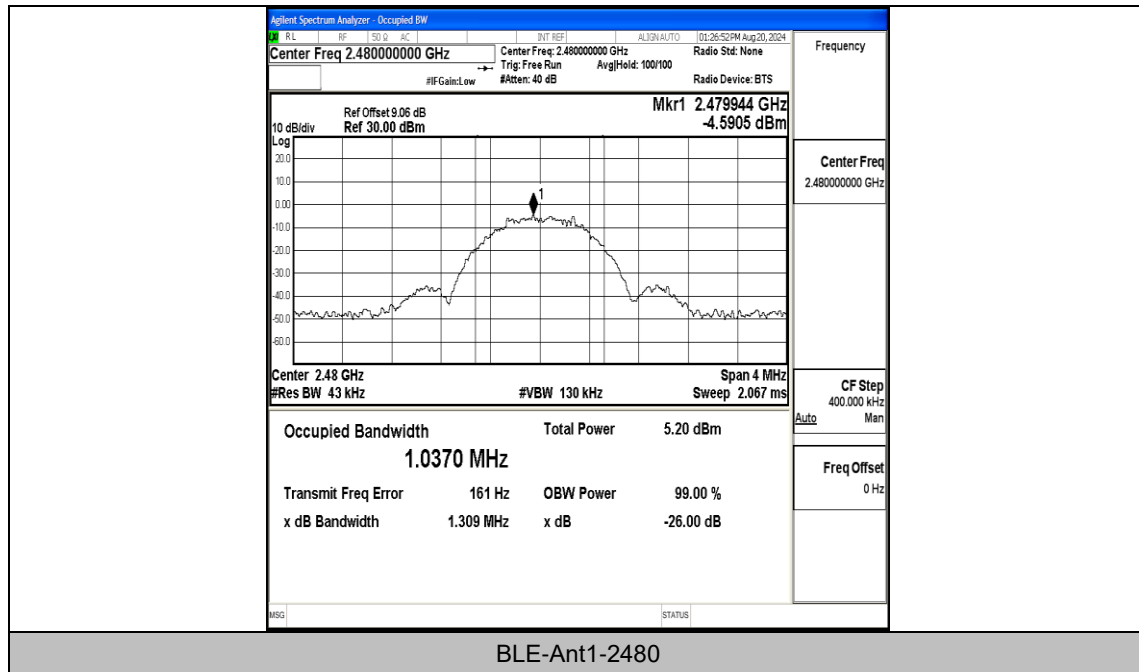
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE	Ant1	2402	1.0398	2401.4805	2402.5203	---	---
BLE	Ant1	2440	1.0260	2439.4933	2440.5193	---	---
BLE	Ant1	2480	1.0370	2479.4817	2480.5187	---	---

Test Graphs



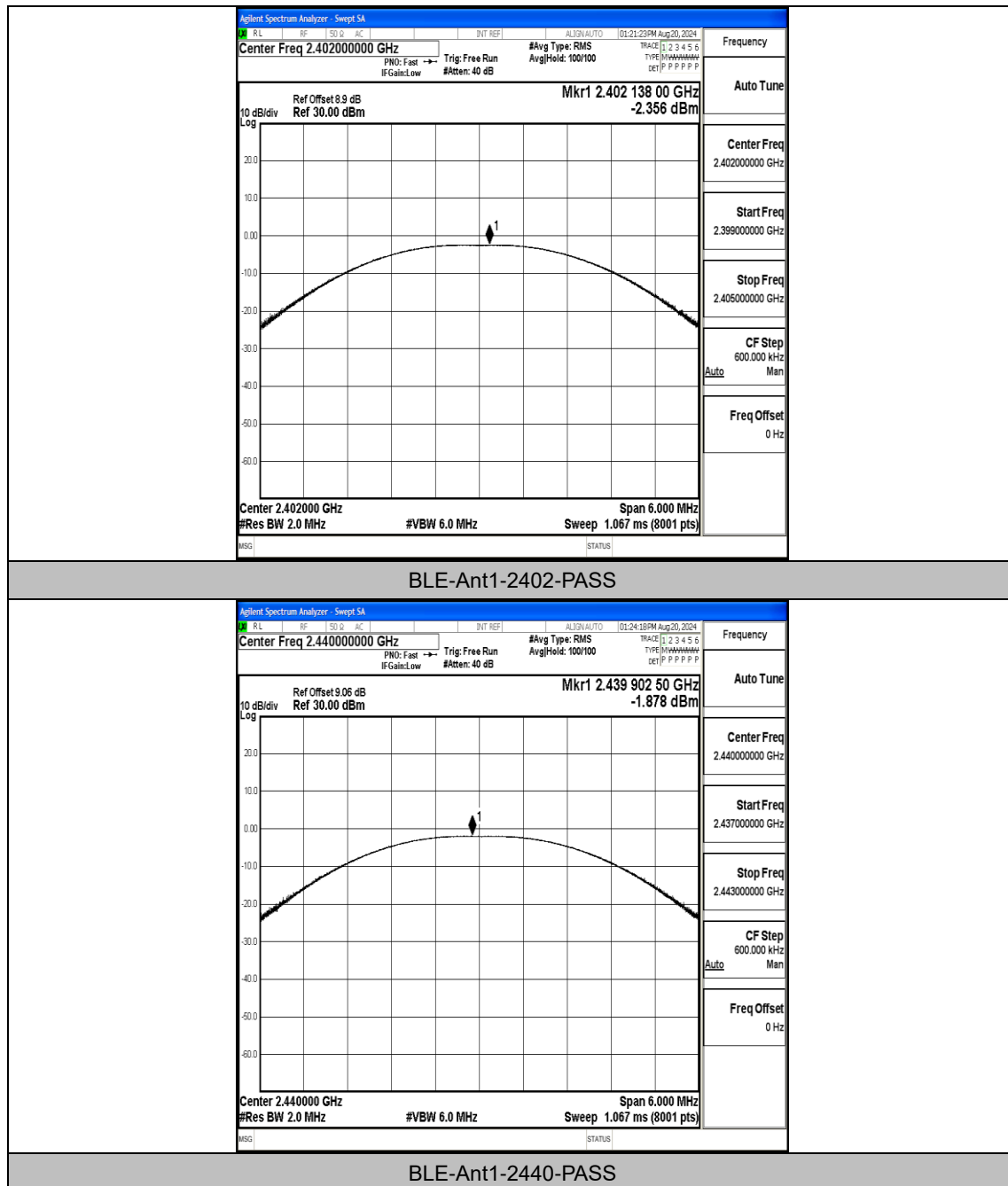


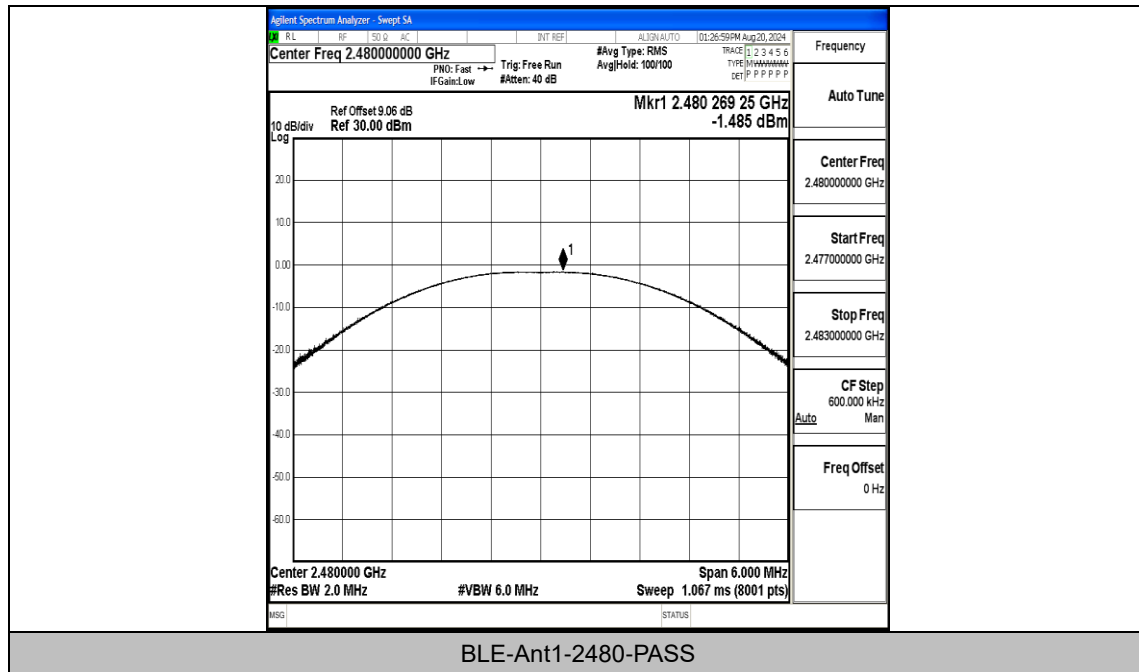
Appendix C: Maximum peak conducted output power

Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE	Ant1	2402	-2.36	≤30	PASS
BLE	Ant1	2440	-1.88	≤30	PASS
BLE	Ant1	2480	-1.49	≤30	PASS

Test Graphs Peak



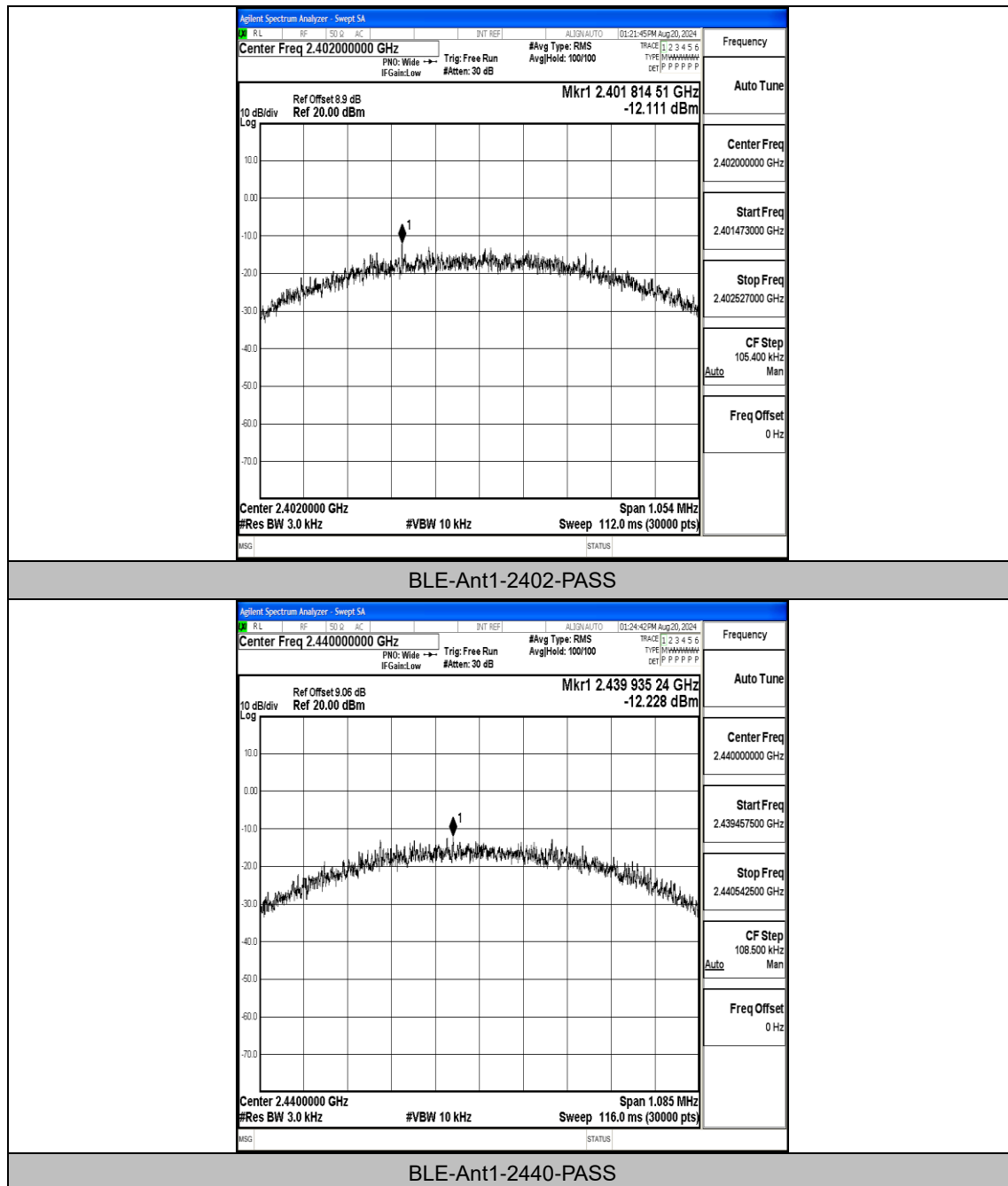


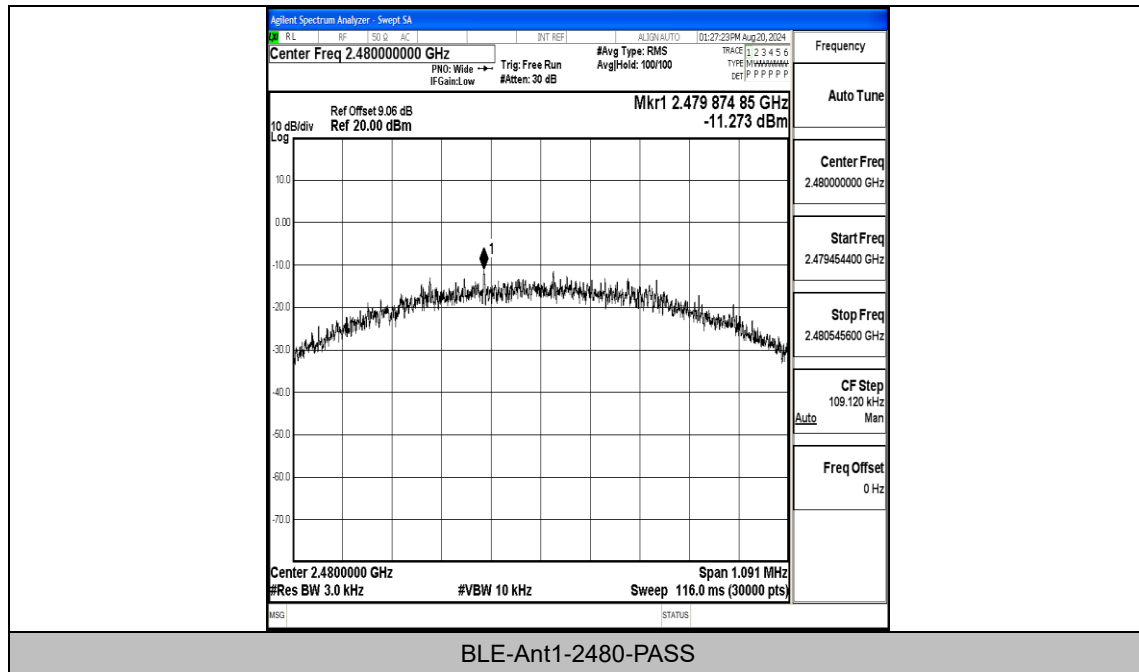
Appendix D: Maximum peak power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE	Ant1	2402	-12.11	≤8.00	PASS
BLE	Ant1	2440	-12.23	≤8.00	PASS
BLE	Ant1	2480	-11.27	≤8.00	PASS

Test Graphs



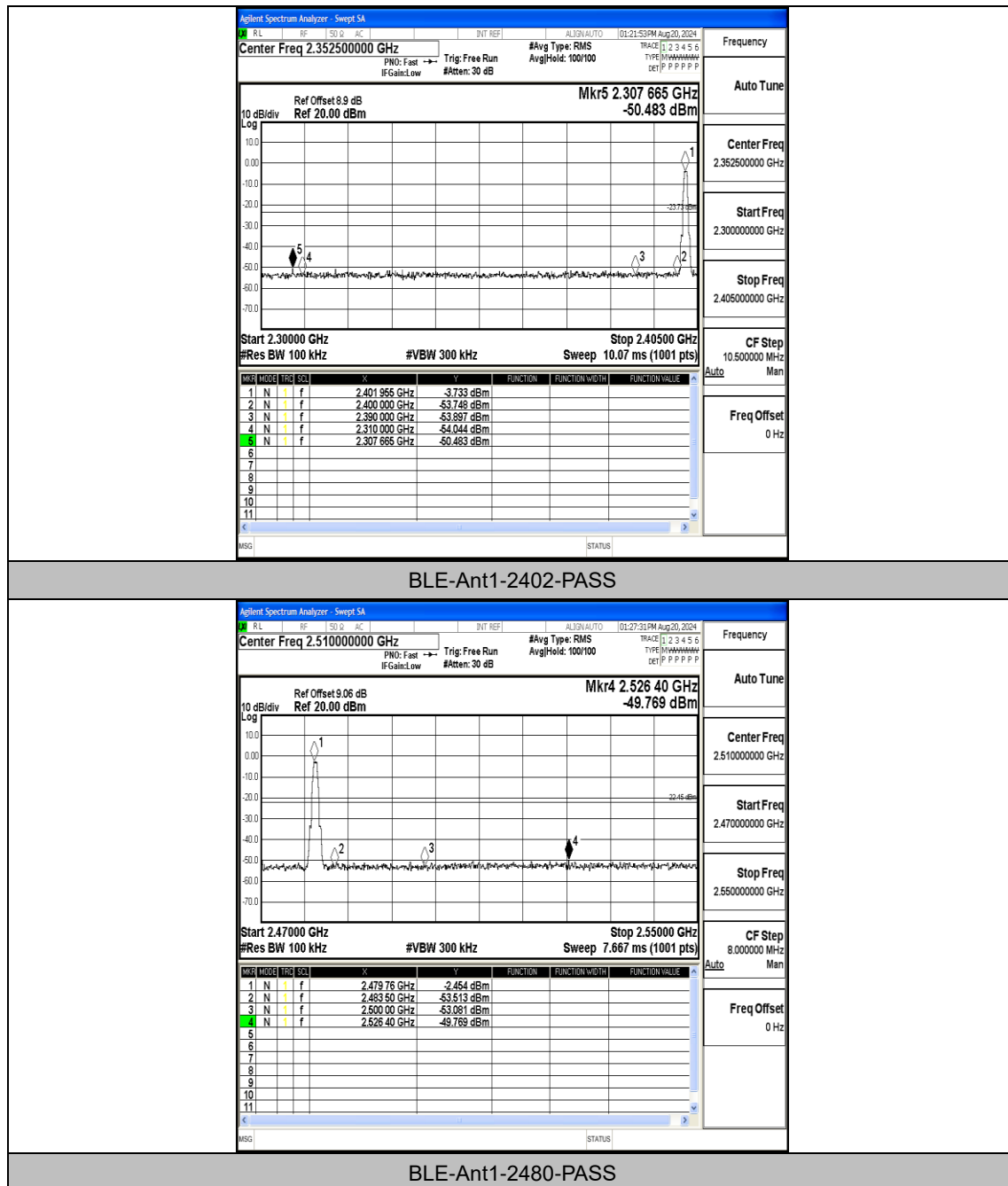


Appendix E: Band edge measurements

Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE	Ant1	Low	2402	-3.73	-50.48	≤-23.73	PASS
BLE	Ant1	High	2480	-2.45	-49.77	≤-22.45	PASS

Test Graphs

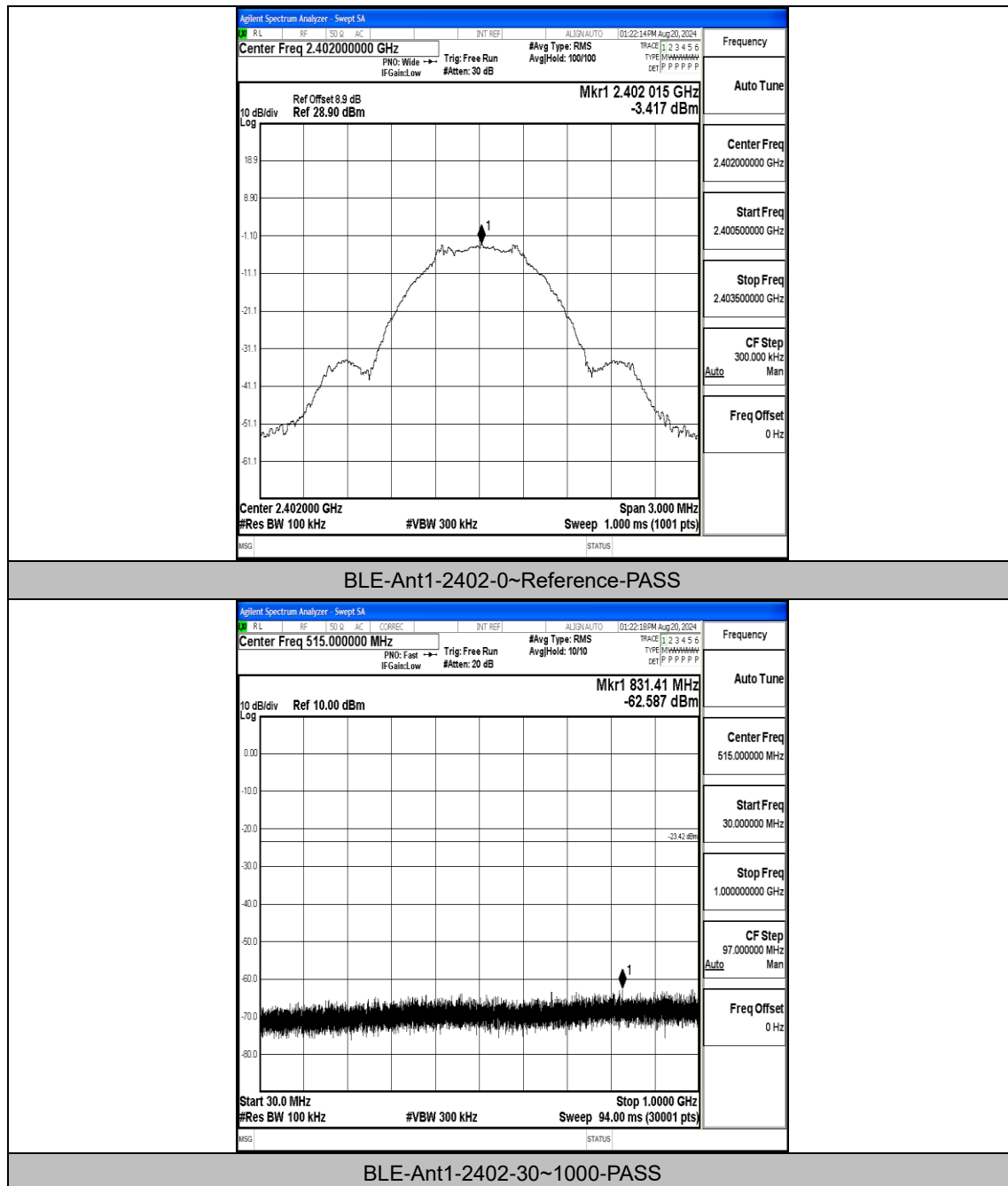


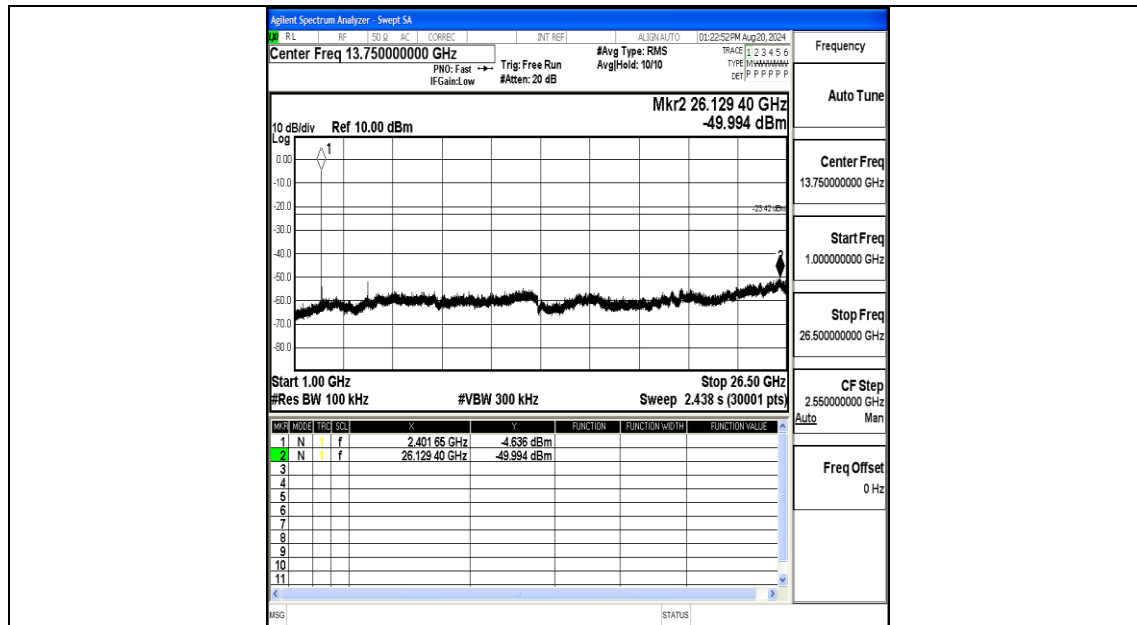
Appendix F: Conducted Spurious Emission

Test Result

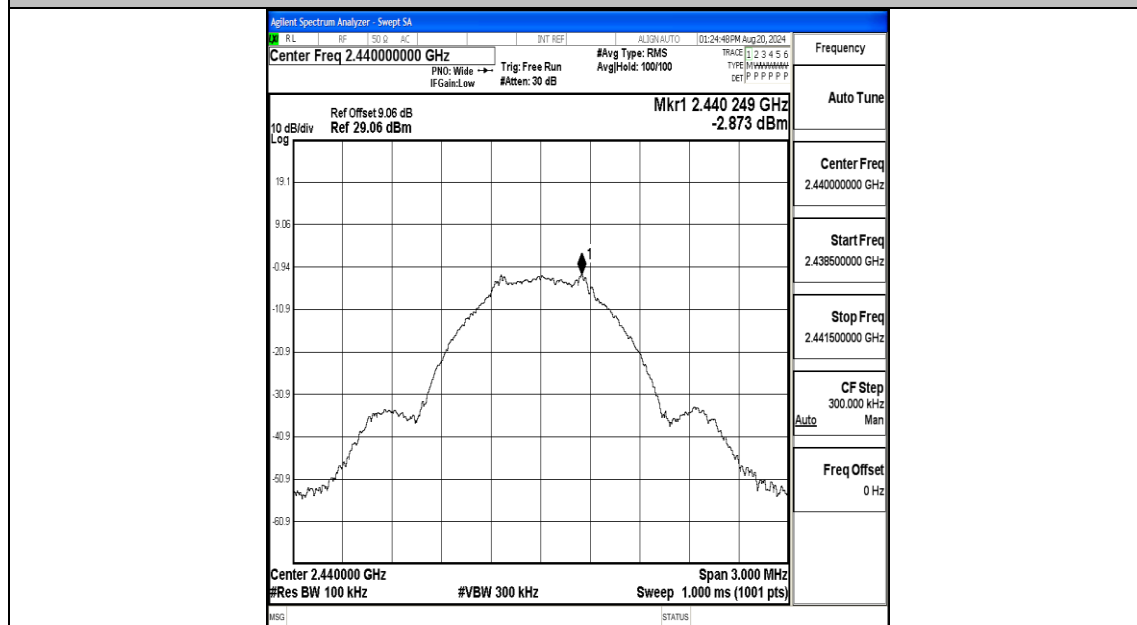
TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE	Ant1	2402	0~Reference	-3.42	-3.42	---	PASS
BLE	Ant1	2402	30~1000	-3.42	-62.59	≤-23.42	PASS
BLE	Ant1	2402	1000~26500	-3.42	-49.99	≤-23.42	PASS
BLE	Ant1	2440	0~Reference	-2.87	-2.87	---	PASS
BLE	Ant1	2440	30~1000	-2.87	-58.88	≤-22.87	PASS
BLE	Ant1	2440	1000~26500	-2.87	-30.24	≤-22.87	PASS
BLE	Ant1	2480	0~Reference	-2.62	-2.62	---	PASS
BLE	Ant1	2480	30~1000	-2.62	-62.47	≤-22.62	PASS
BLE	Ant1	2480	1000~26500	-2.62	-50.27	≤-22.62	PASS

Test Graphs

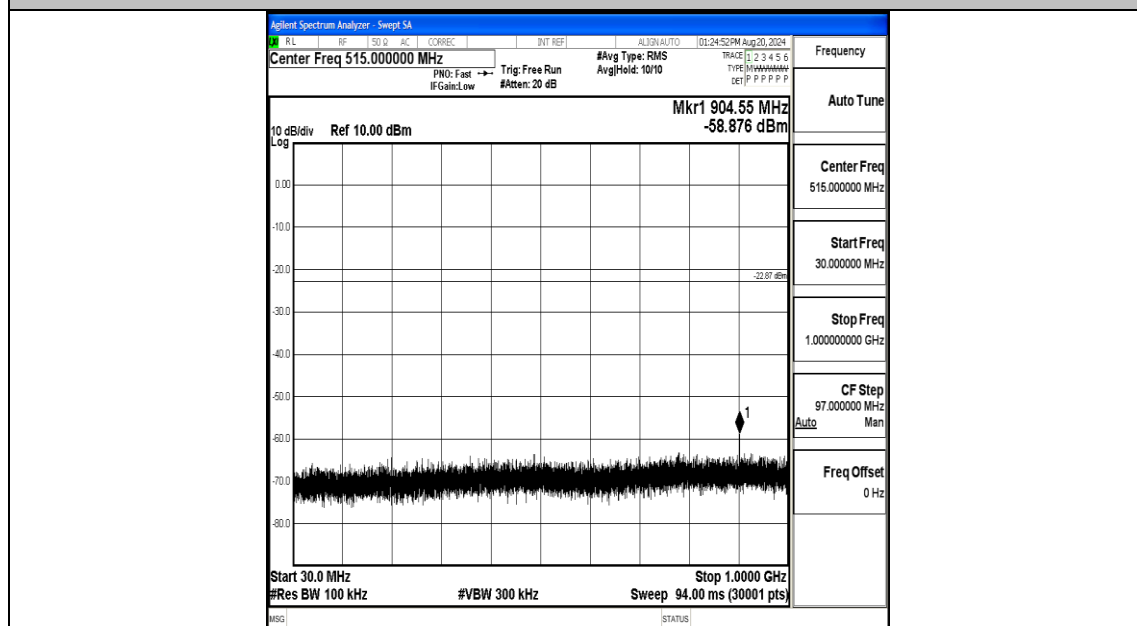




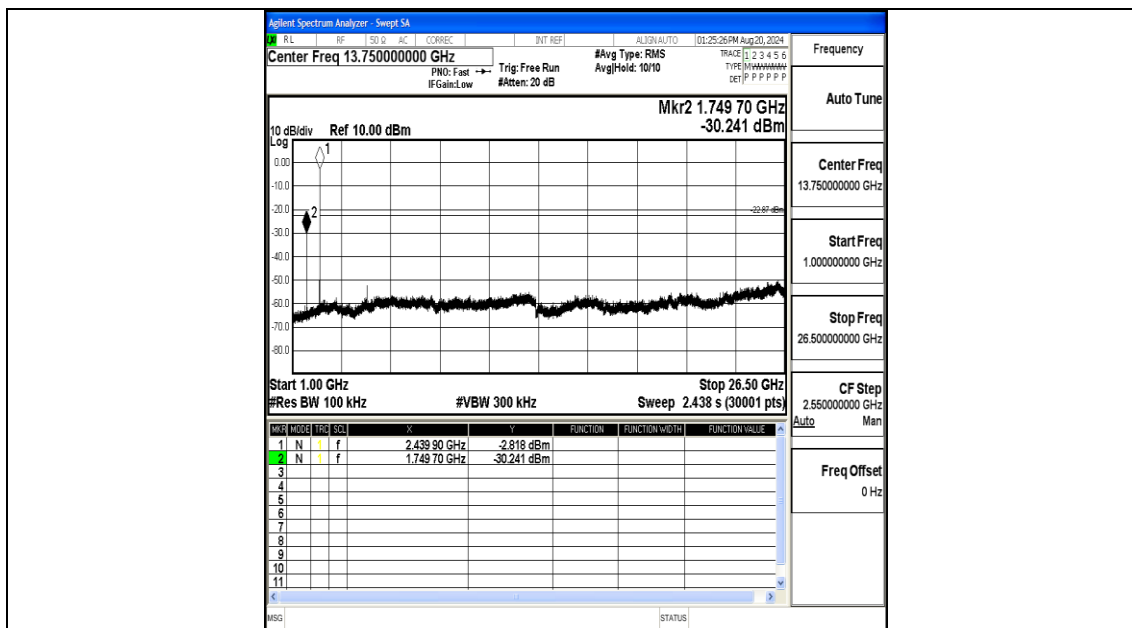
BLE-Ant1-2402-1000~26500-PASS



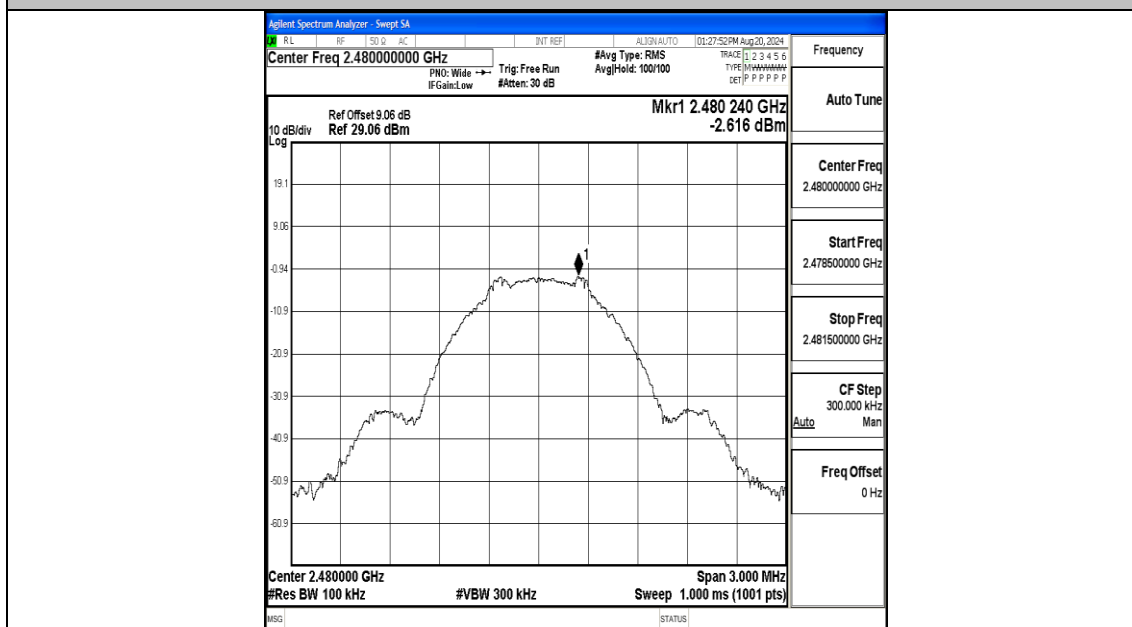
BLE-Ant1-2440-0~Reference-PASS



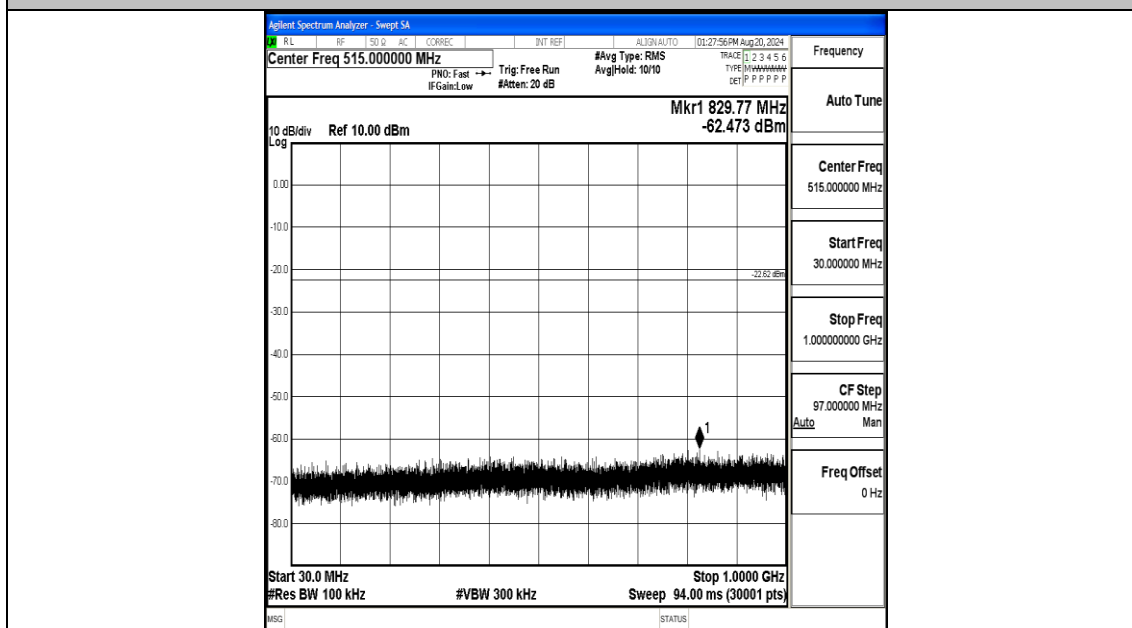
BLE-Ant1-2440-30~1000-PASS



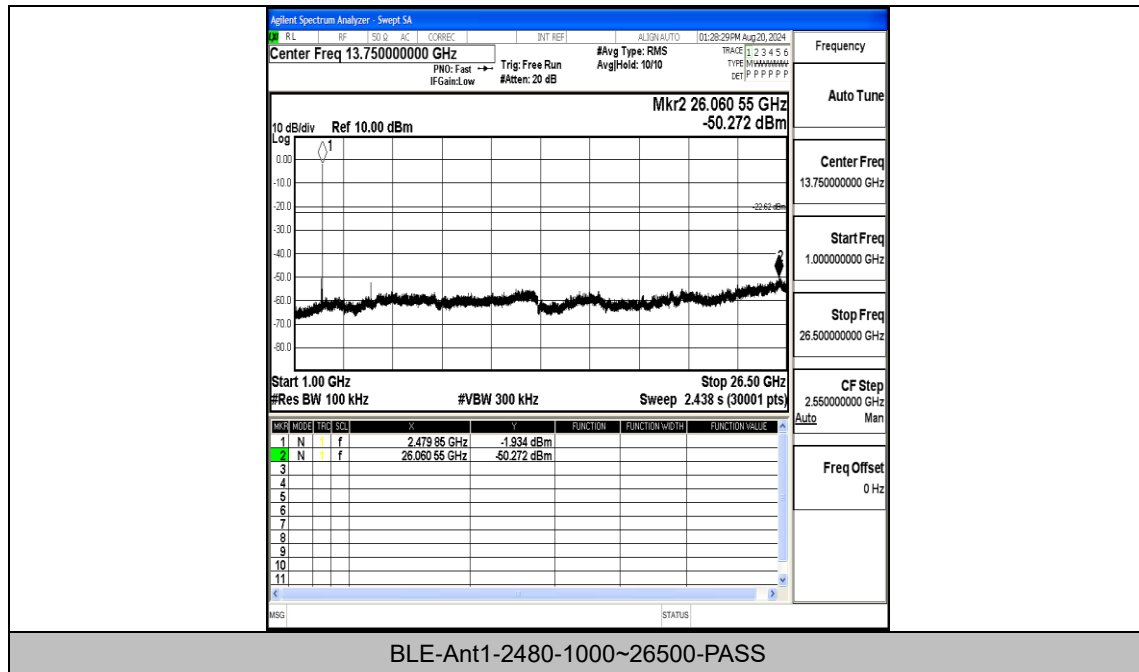
BLE-Ant1-2440-1000~26500-PASS



BLE-Ant1-2480-0~Reference-PASS



BLE-Ant1-2480-30~1000-PASS



Appendix G: Duty Cycle

Test Result

TestMode	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

