

Appendix Test Data for BLE (Conducted Measurement)

Product Name: Body fat scale

Trade Mark: TAYLOR

Test Model: 5297054

FCC ID: 2AJ5E-5297054

Environmental Conditions

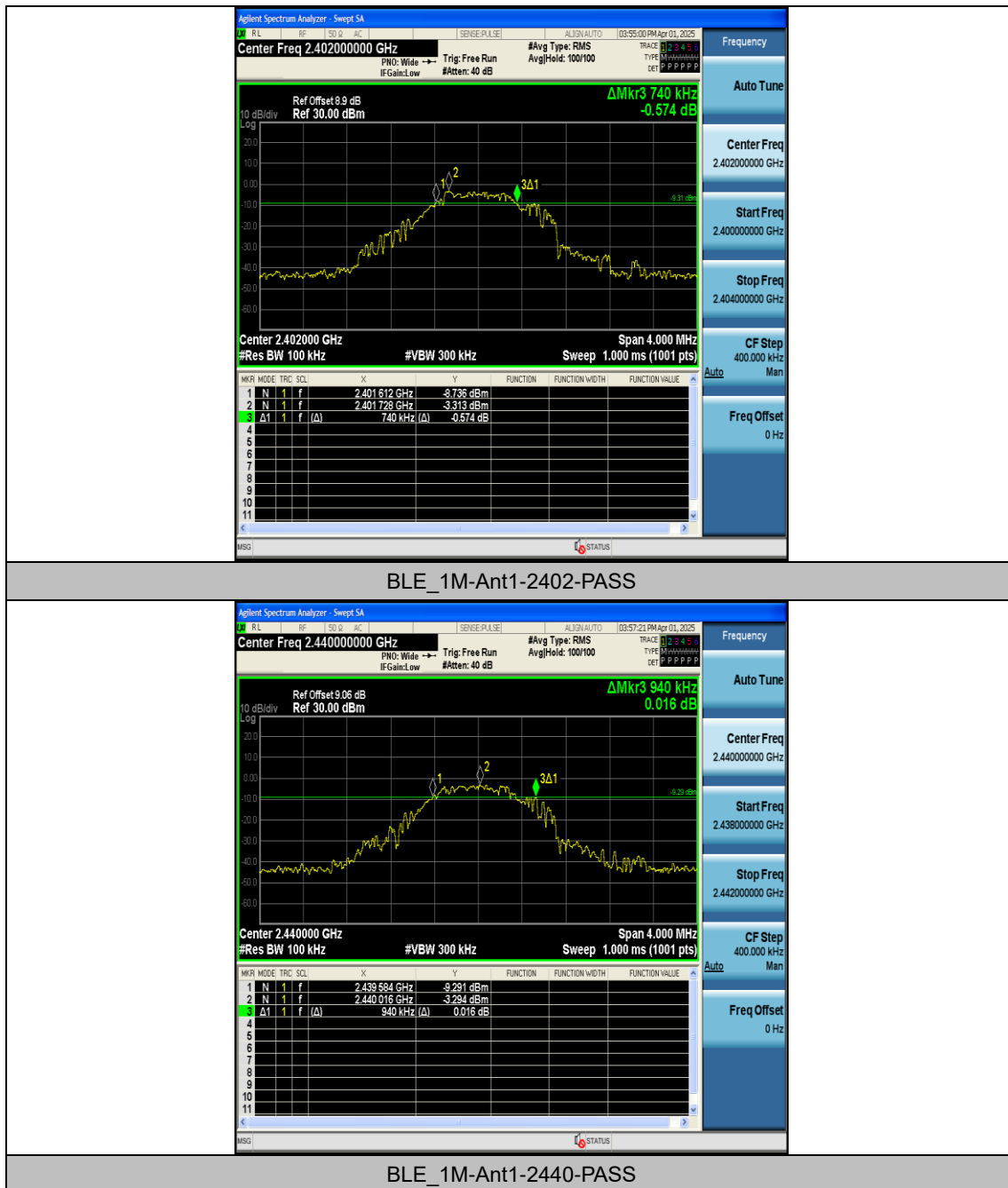
Temperature:	23.5℃
Relative Humidity:	58%
ATM Pressure:	100.0 kPa
Test Engineer:	Allen Lai
Supervised by:	Max Zhang
NOTE	N/A

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	0.740	2401.612	2402.352	0.5	PASS
BLE_1M	Ant1	2440	0.940	2439.584	2440.524	0.5	PASS
BLE_1M	Ant1	2480	0.772	2479.580	2480.352	0.5	PASS

Test Graphs



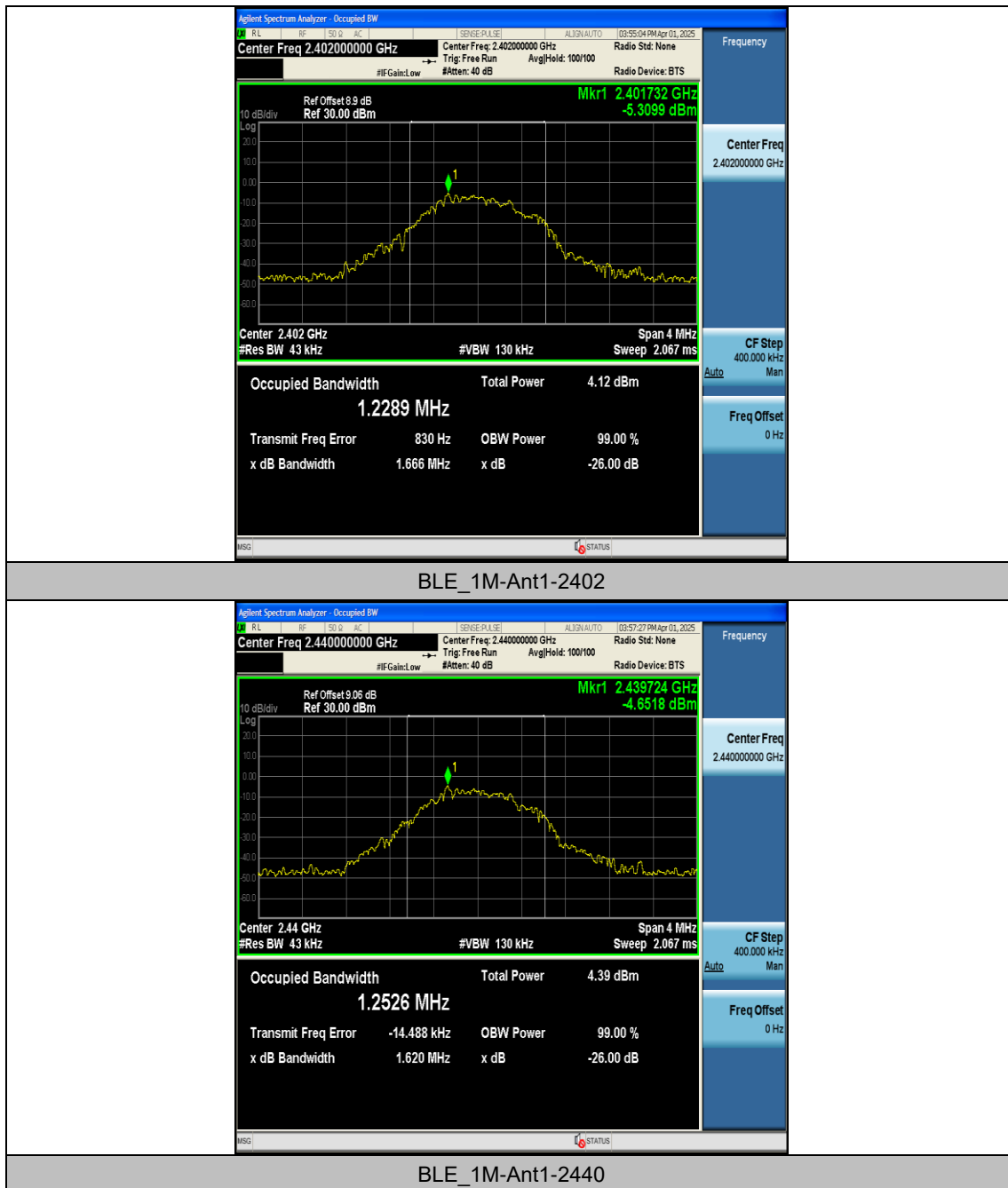


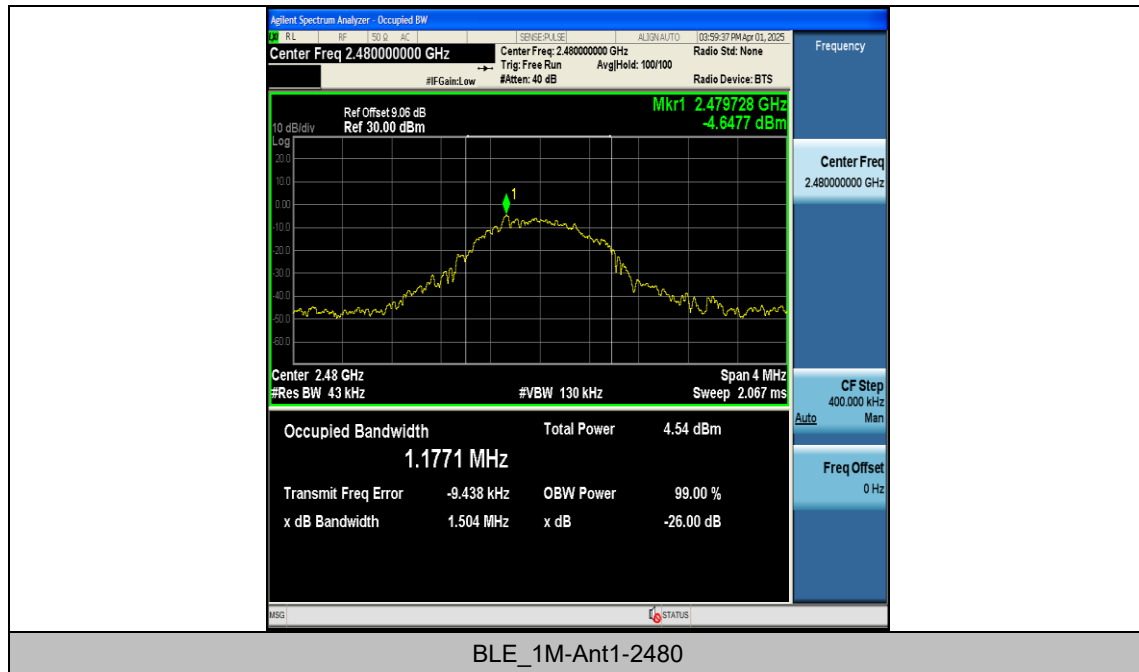
Appendix B: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Frequency [MHz]	OCB [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
BLE_1M	Ant1	2402	1.2289	2401.3864	2402.6153	---	---
BLE_1M	Ant1	2440	1.2526	2439.3592	2440.6118	---	---
BLE_1M	Ant1	2480	1.1771	2479.4020	2480.5791	---	---

Test Graphs



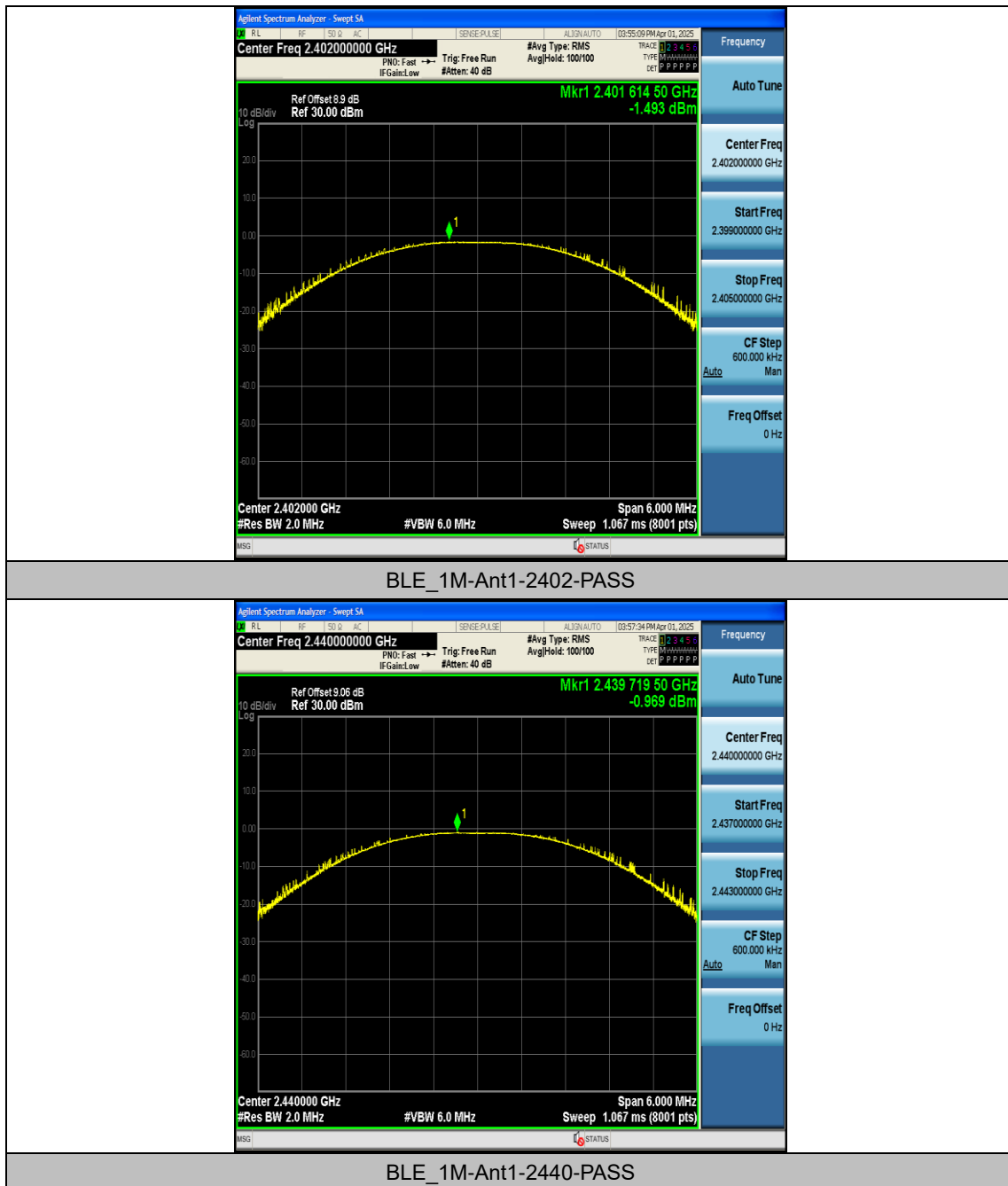


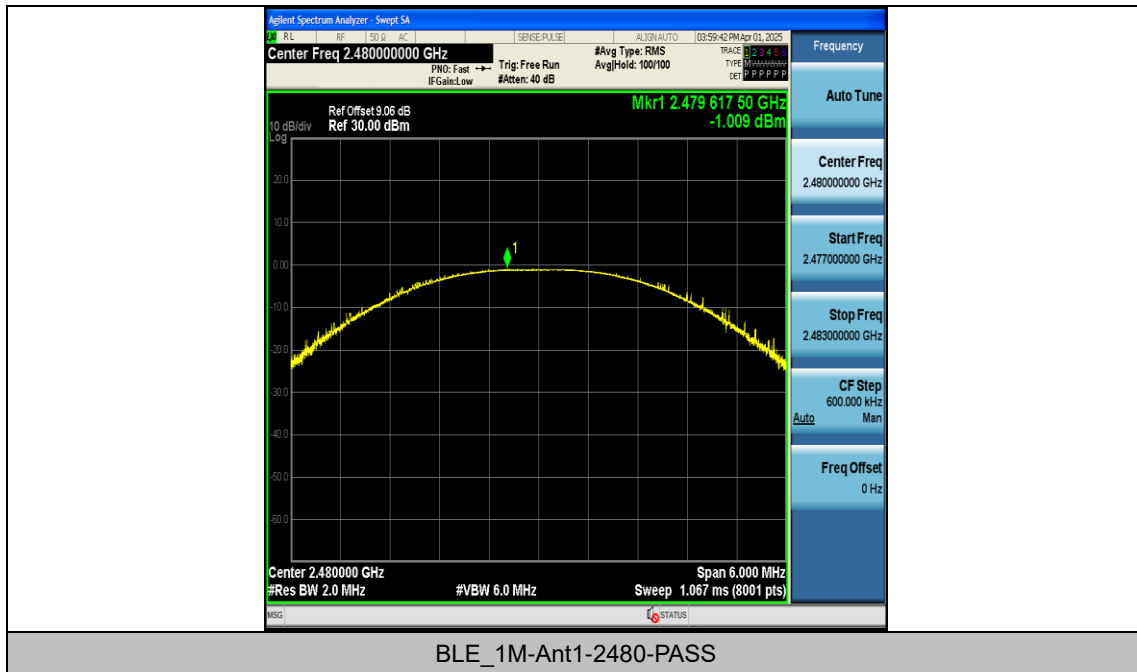
Appendix C: Maximum peak conducted output power

Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power [dBm]	Conducted Limit [dBm]	Verdict
BLE_1M	Ant1	2402	-1.49	≤30	PASS
BLE_1M	Ant1	2440	-0.97	≤30	PASS
BLE_1M	Ant1	2480	-1.01	≤30	PASS

Test Graphs Peak



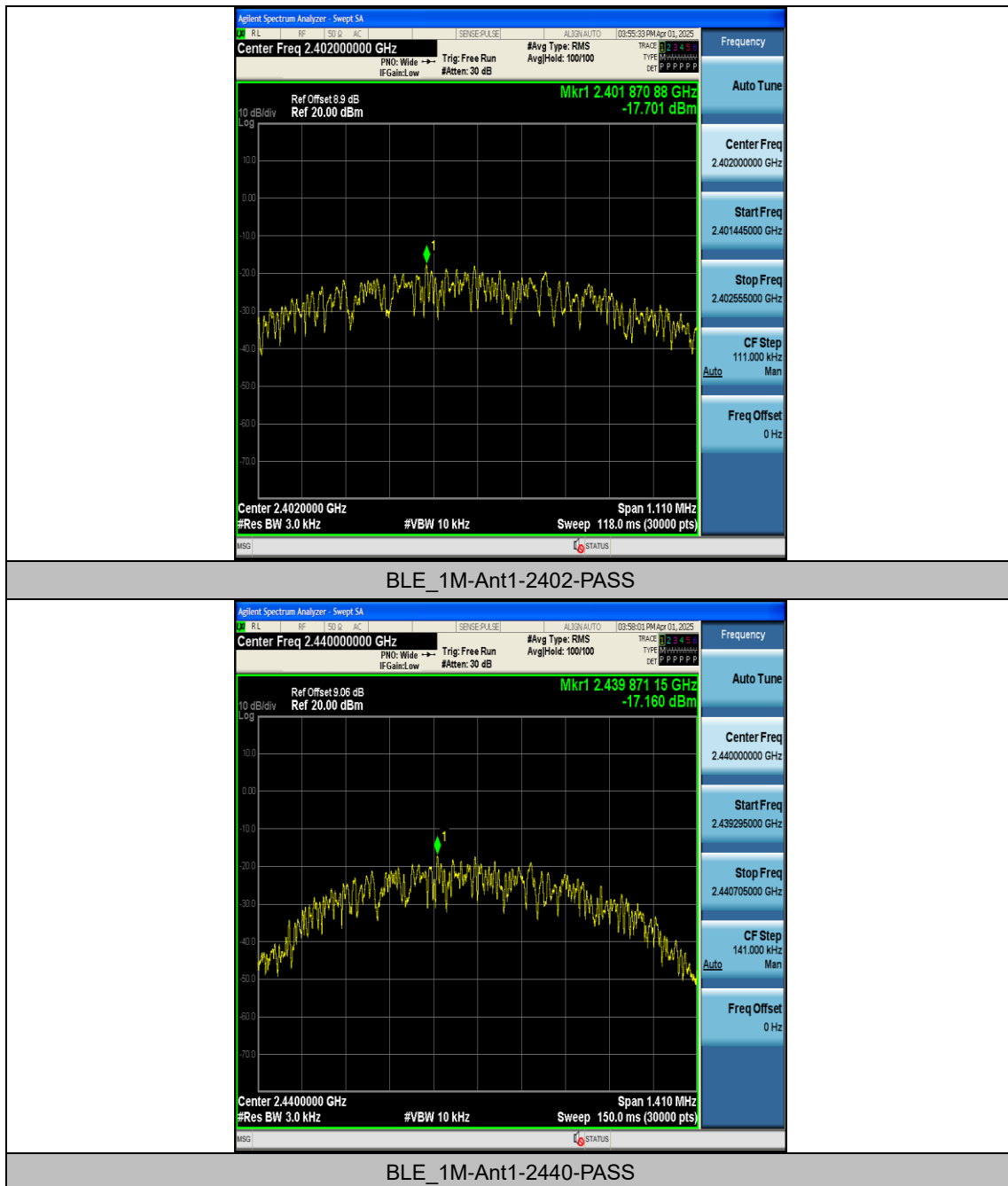


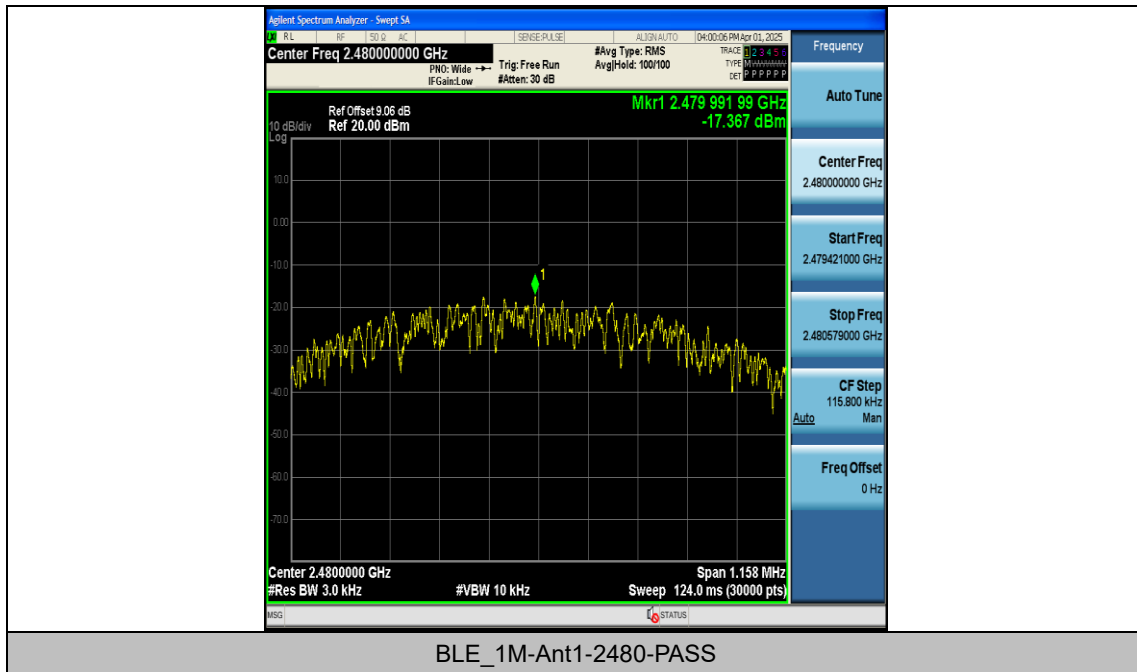
Appendix D: Maximum peak power spectral density

Test Result

Test Mode	Antenna	Frequency [MHz]	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-17.70	≤8.00	PASS
BLE_1M	Ant1	2440	-17.16	≤8.00	PASS
BLE_1M	Ant1	2480	-17.37	≤8.00	PASS

Test Graphs





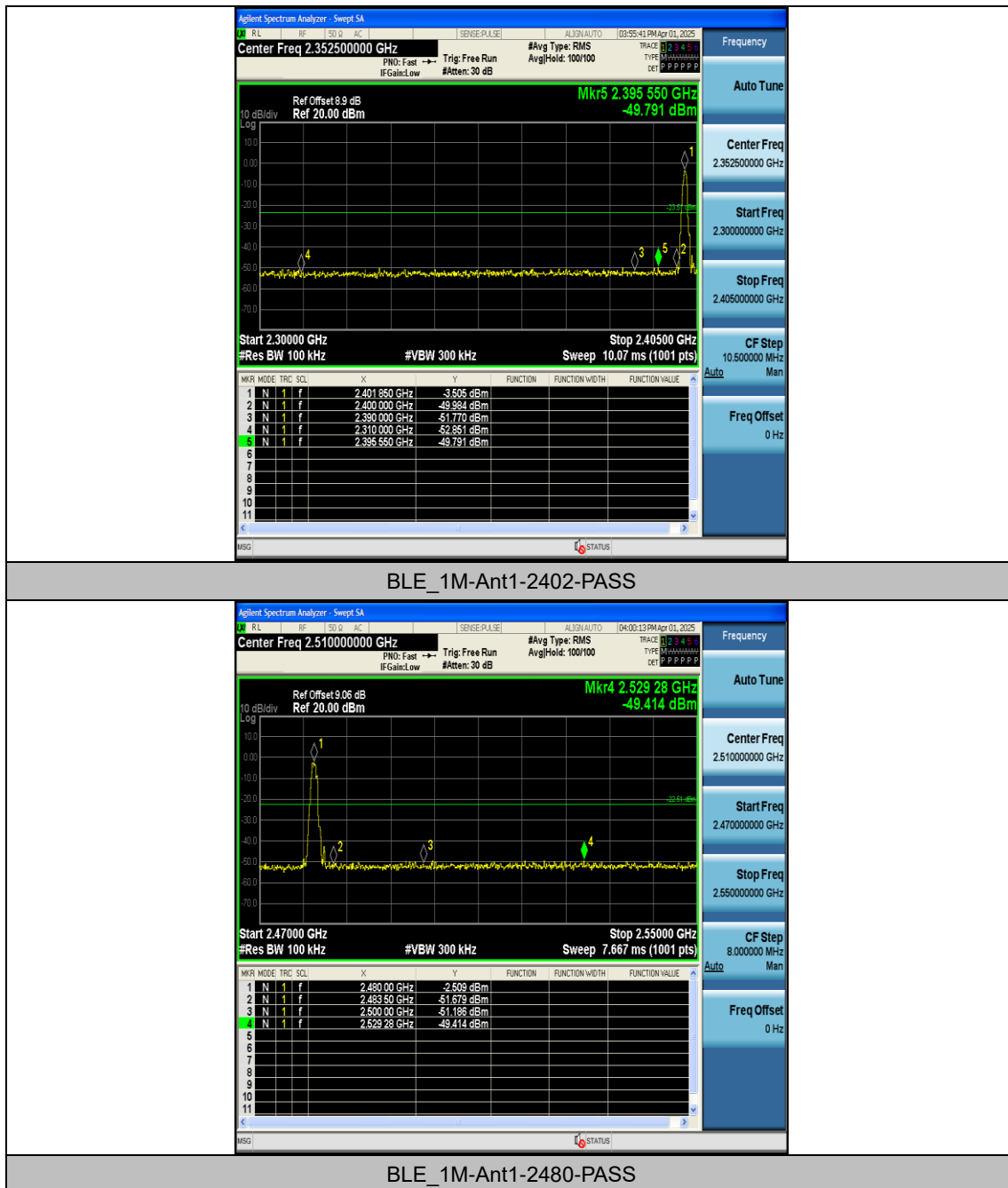
BLE_1M-Ant1-2480-PASS

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	-3.51	-49.79	≤-23.51	PASS
BLE_1M	Ant1	High	2480	-2.51	-49.41	≤-22.51	PASS

Test Graphs

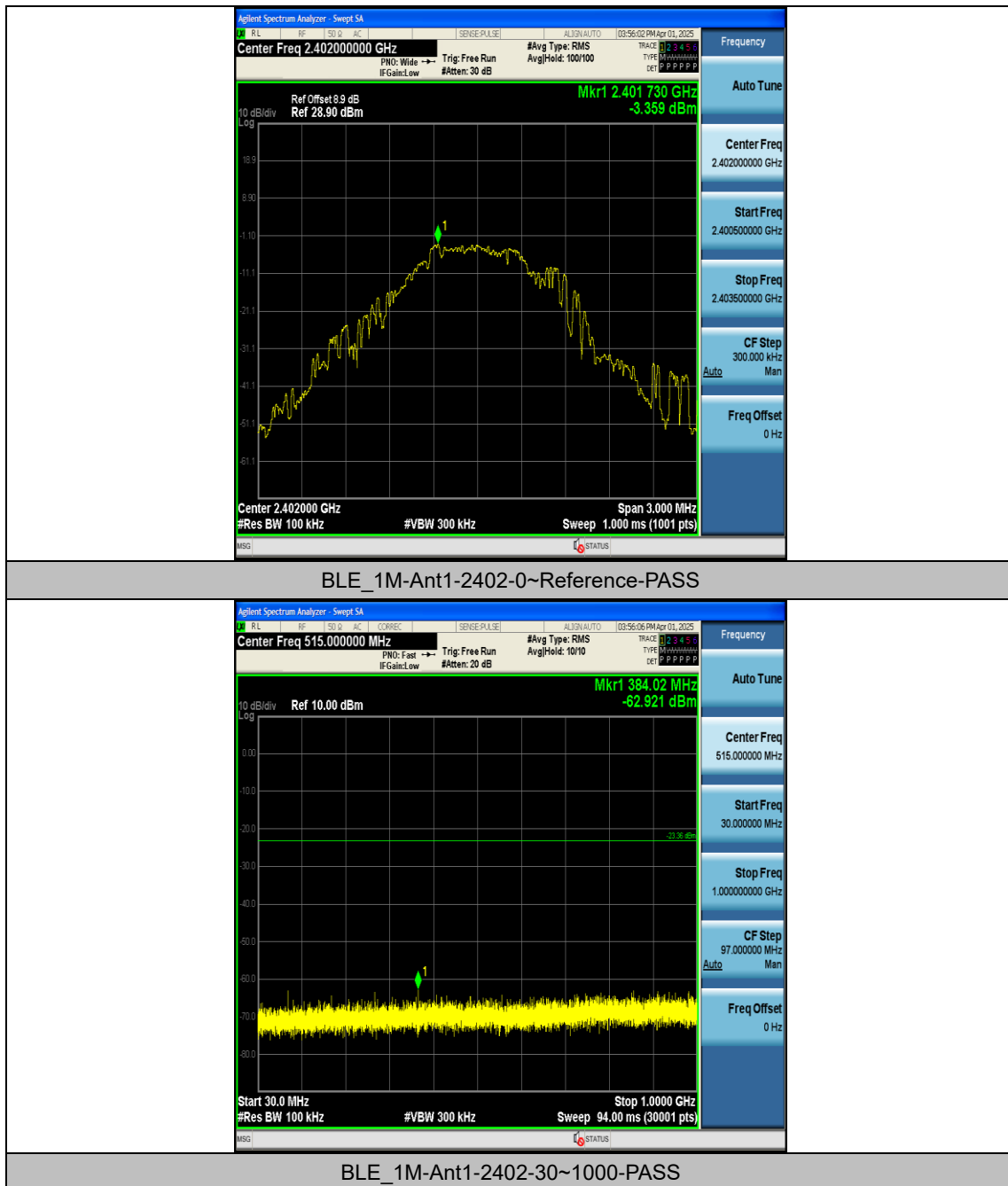


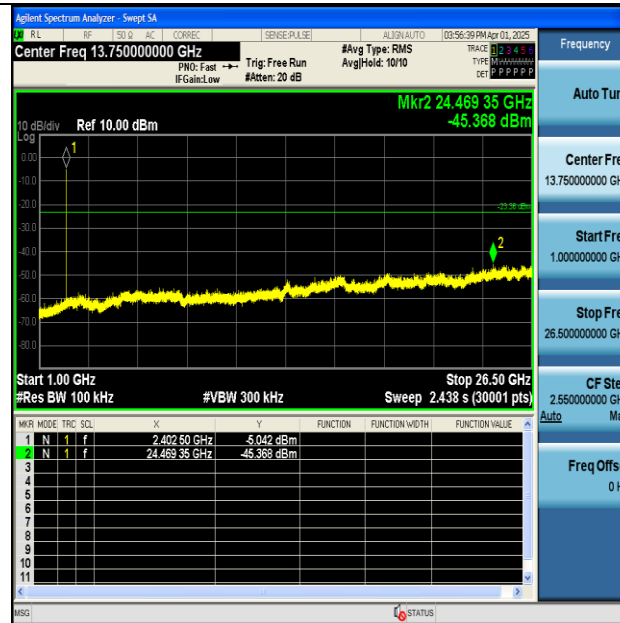
Appendix F: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	-3.36	-3.36	---	PASS
BLE_1M	Ant1	2402	30~1000	-3.36	-62.92	≤ -23.36	PASS
BLE_1M	Ant1	2402	1000~26500	-3.36	-45.37	≤ -23.36	PASS
BLE_1M	Ant1	2440	0~Reference	-2.98	-2.98	---	PASS
BLE_1M	Ant1	2440	30~1000	-2.98	-61.82	≤ -22.98	PASS
BLE_1M	Ant1	2440	1000~26500	-2.98	-45.63	≤ -22.98	PASS
BLE_1M	Ant1	2480	0~Reference	-3.06	-3.06	---	PASS
BLE_1M	Ant1	2480	30~1000	-3.06	-62.26	≤ -23.06	PASS
BLE_1M	Ant1	2480	1000~26500	-3.06	-45.3	≤ -23.06	PASS

Test Graphs

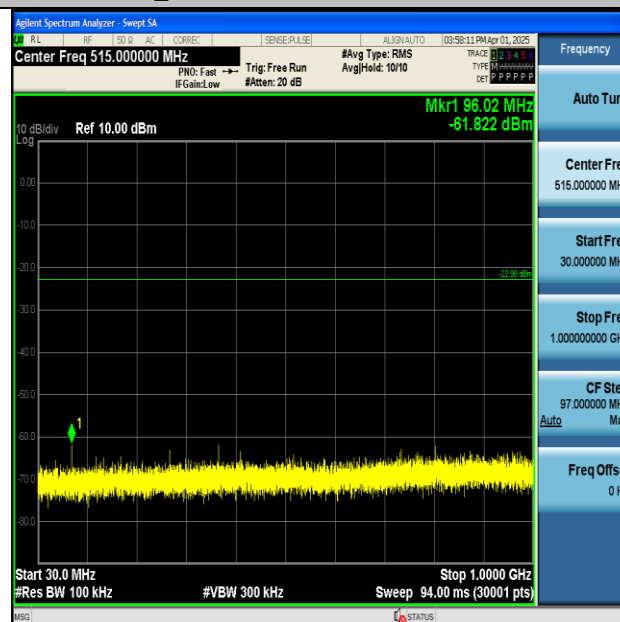




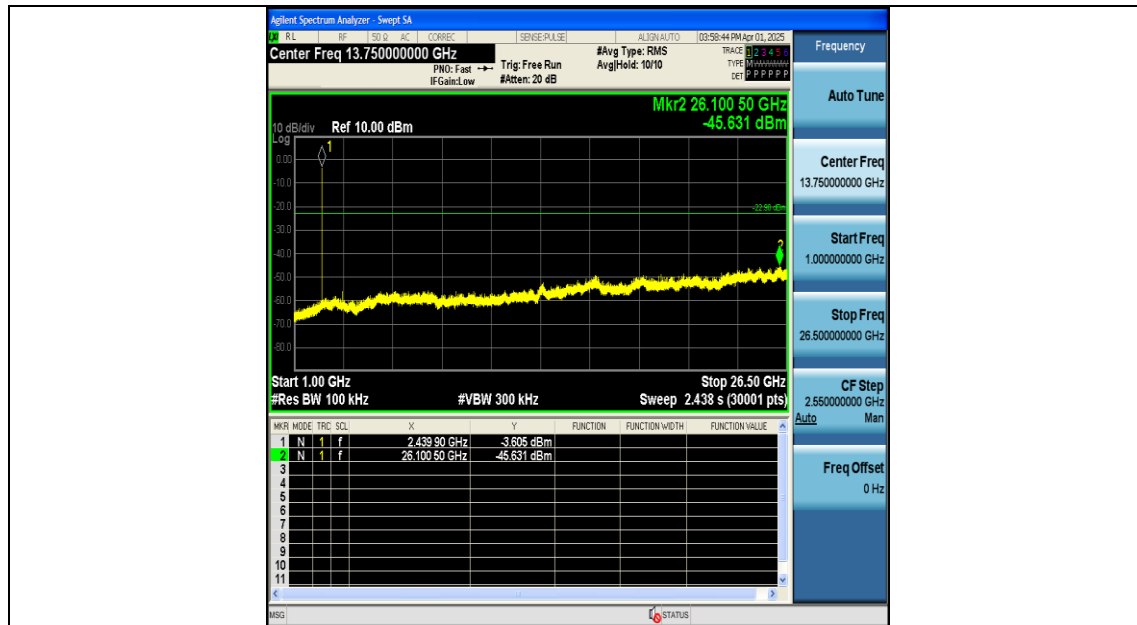
BLE_1M-Ant1-2402-1000~26500-PASS



BLE_1M-Ant1-2440-0~Reference-PASS



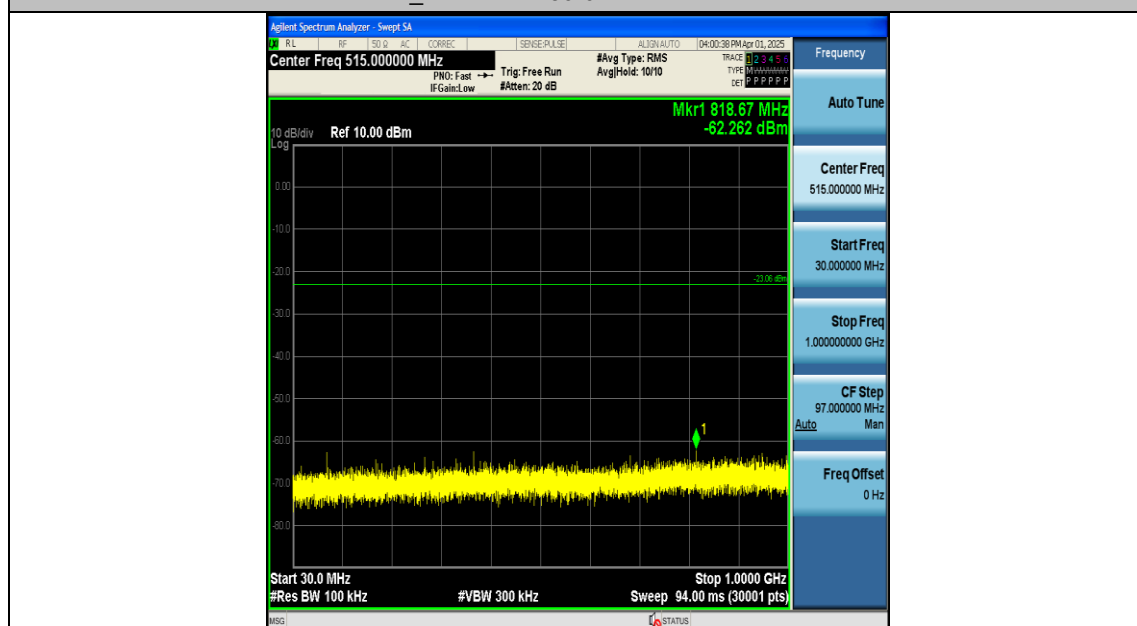
BLE_1M-Ant1-2440-30~1000-PASS



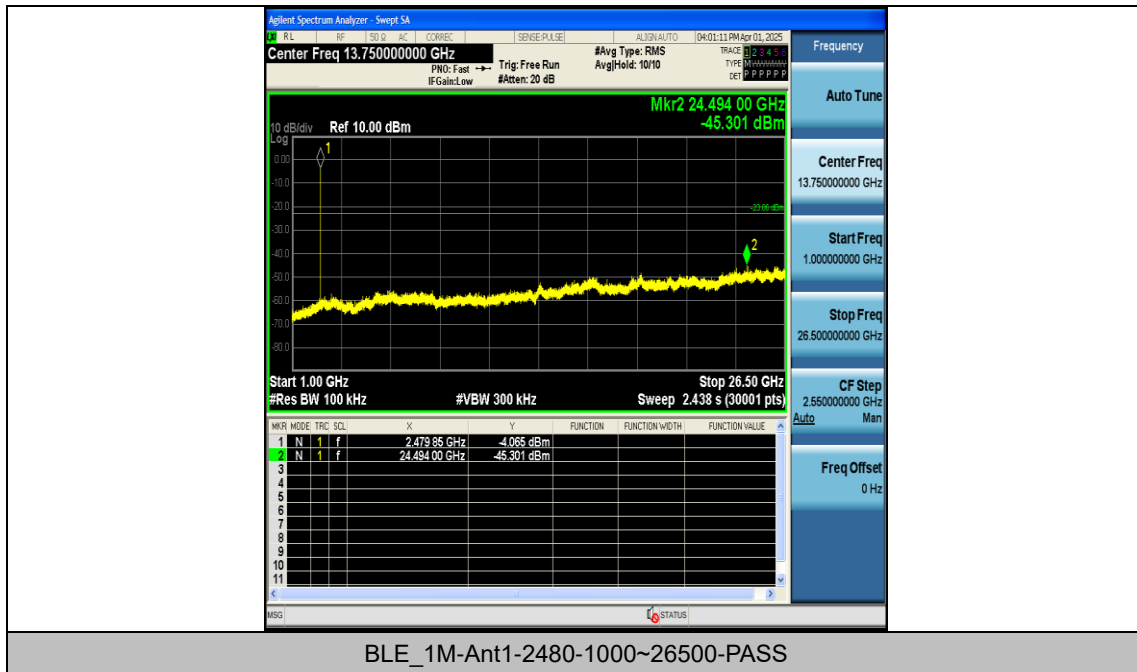
BLE_1M-Ant1-2440-1000~26500-PASS



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	0.29	1.05	27.62	5.59
BLE_1M	Ant1	2440	0.29	1.05	27.62	5.59
BLE_1M	Ant1	2480	0.29	1.06	27.36	5.63

Test Graphs

