

Appendix Test Data for BLE (Conducted Measurement)

Product Name: F6 MVTag

Trade Mark: 

Test Model: F6 MVTag

FCC ID: 2BON6-F6MVTag

Environmental Conditions

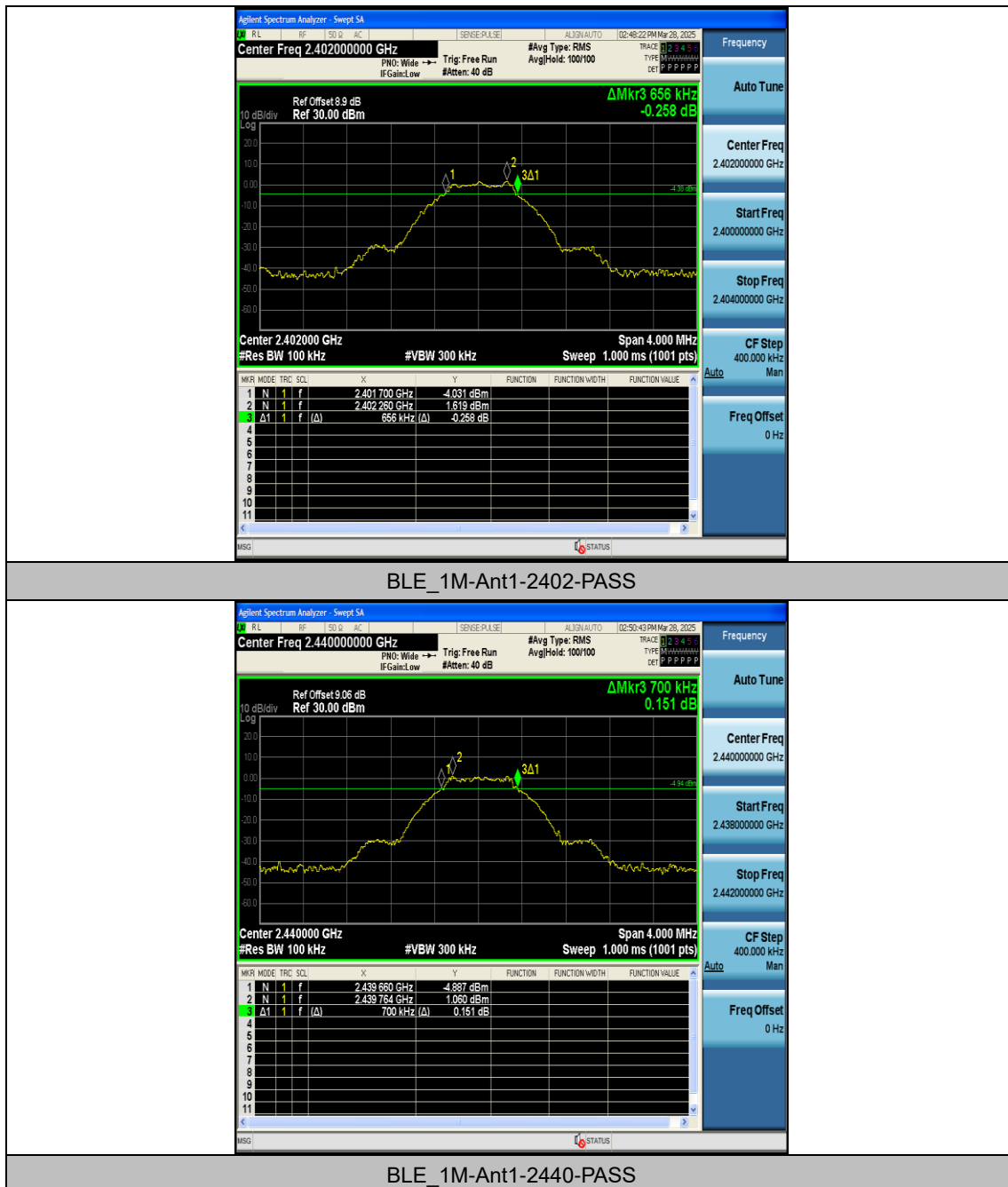
Temperature:	23.5℃
Relative Humidity:	58%
ATM Pressure:	100.0 kPa
Test Engineer:	Allen Lai
Supervised by:	Max Zhang
NOTE	N/A

Appendix A: DTS Bandwidth

Test Result

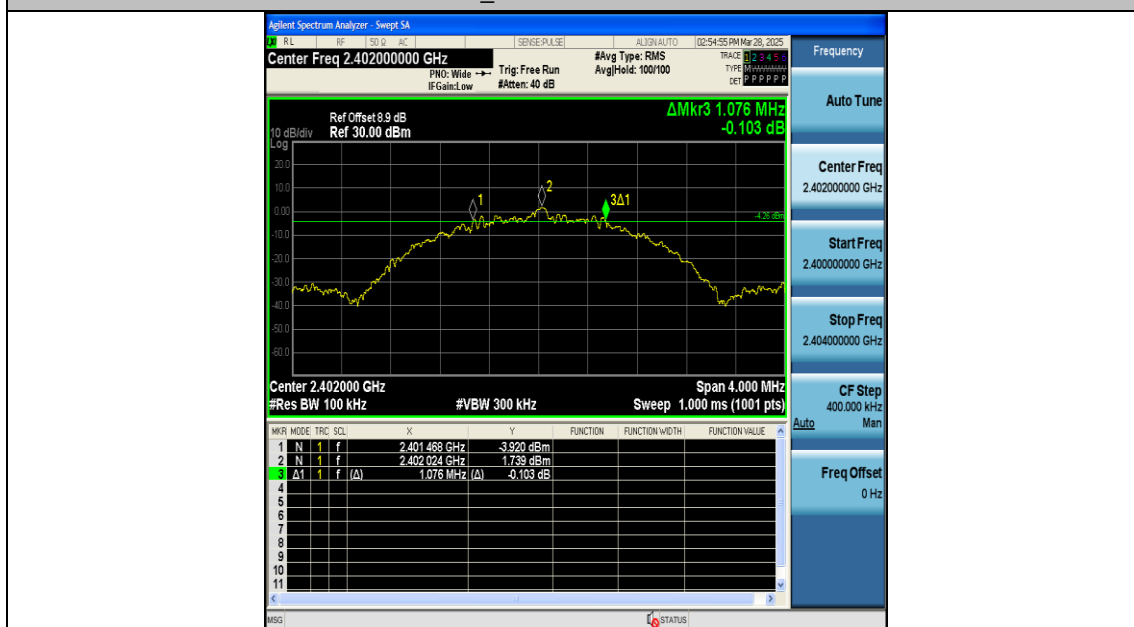
Test Mode	Antenna	Frequency [MHz]	DTS BW [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
BLE_1M	Ant1	2402	0.656	2401.700	2402.356	0.5	PASS
BLE_1M	Ant1	2440	0.700	2439.660	2440.360	0.5	PASS
BLE_1M	Ant1	2480	0.728	2479.644	2480.372	0.5	PASS
BLE_2M	Ant1	2402	1.076	2401.468	2402.544	0.5	PASS
BLE_2M	Ant1	2440	1.136	2439.456	2440.592	0.5	PASS
BLE_2M	Ant1	2480	1.372	2479.332	2480.704	0.5	PASS

Test Graphs





BLE_1M-Ant1-2480-PASS



BLE_2M-Ant1-2402-PASS



BLE_2M-Ant1-2440-PASS

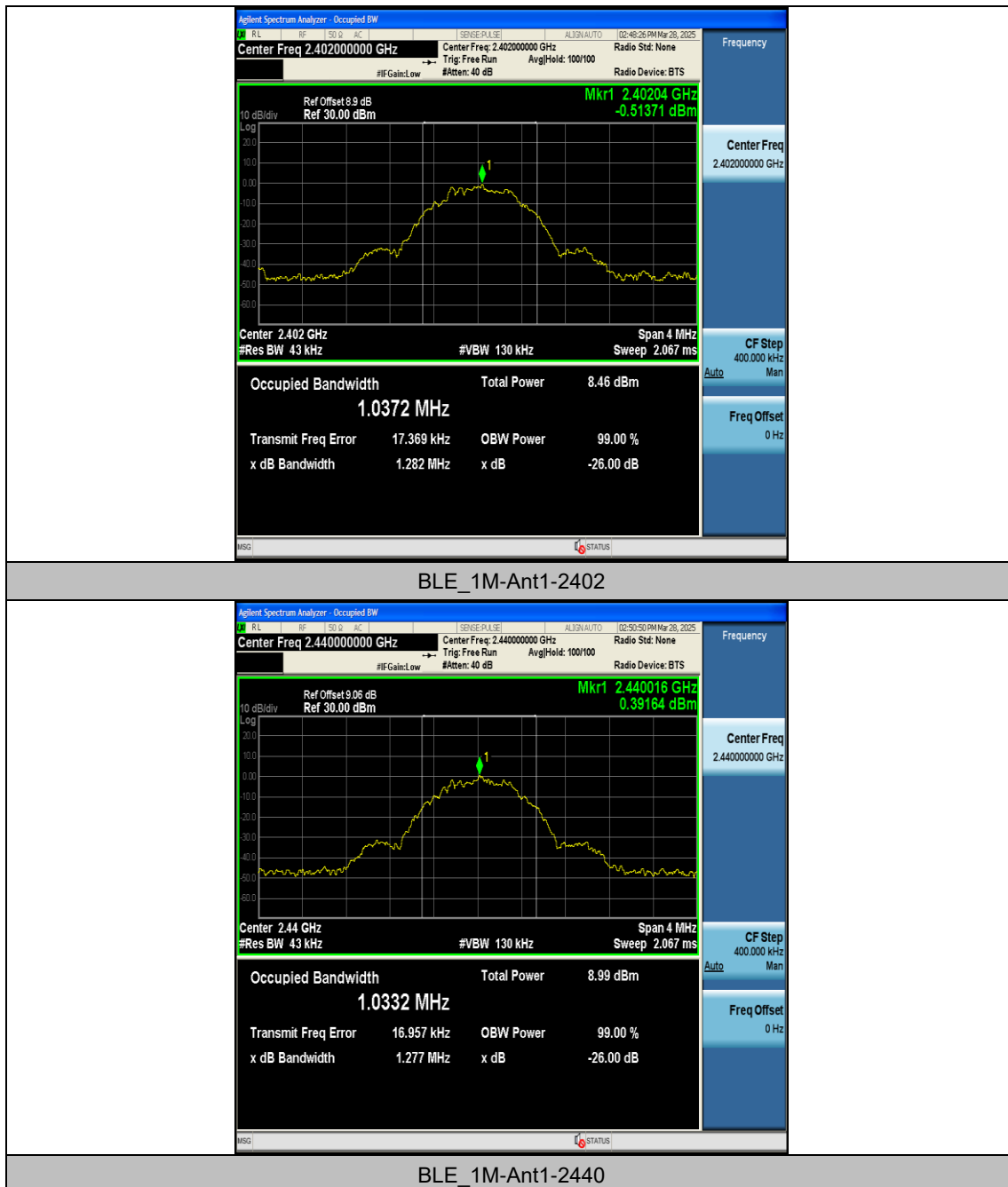


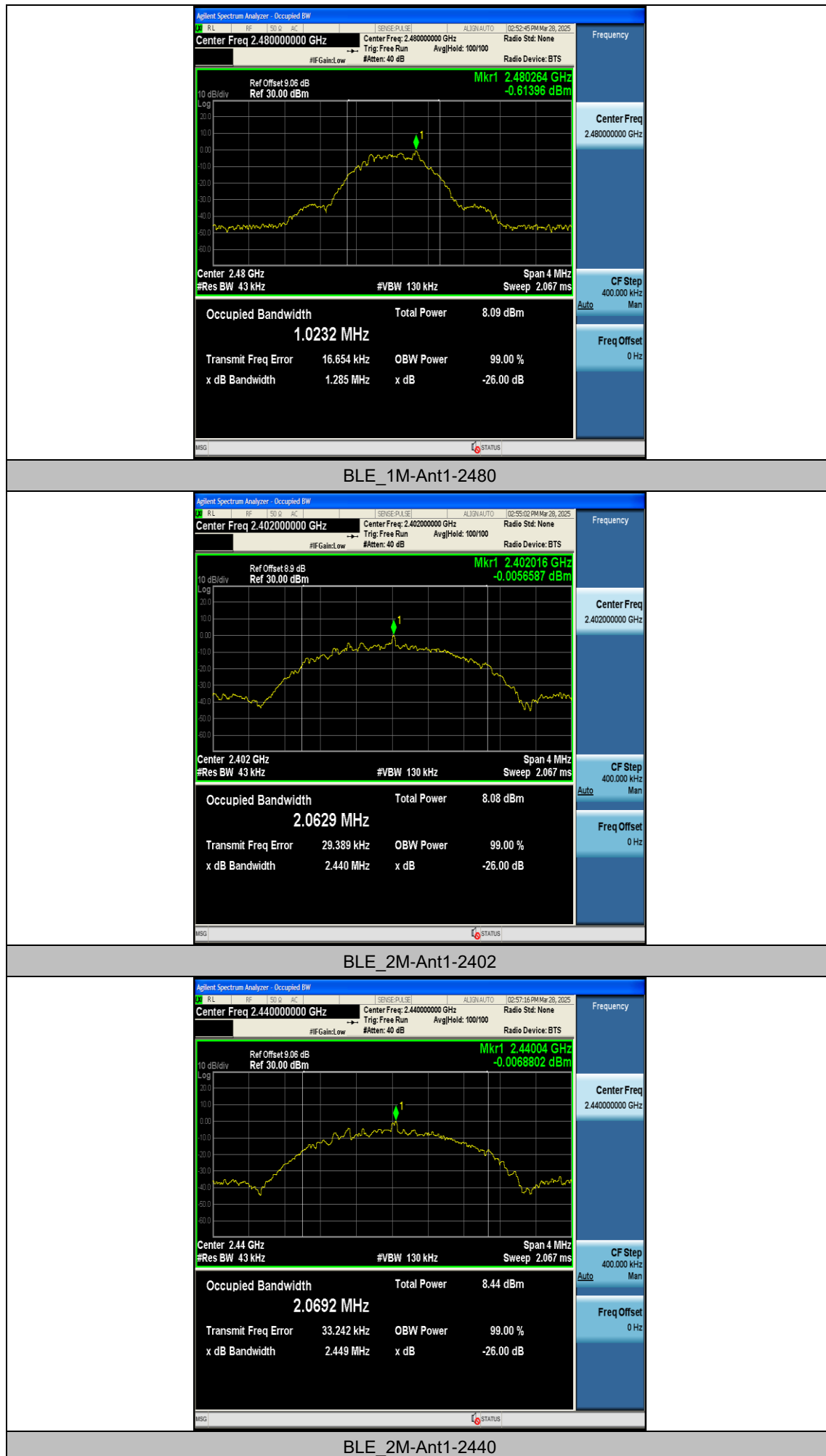
Appendix B: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Frequency [MHz]	OCB [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
BLE_1M	Ant1	2402	1.0372	2401.4988	2402.5360	---	---
BLE_1M	Ant1	2440	1.0332	2439.5004	2440.5336	---	---
BLE_1M	Ant1	2480	1.0232	2479.5051	2480.5283	---	---
BLE_2M	Ant1	2402	2.0629	2400.9979	2403.0608	---	---
BLE_2M	Ant1	2440	2.0692	2438.9986	2441.0678	---	---
BLE_2M	Ant1	2480	2.0571	2479.0002	2481.0573	---	---

Test Graphs





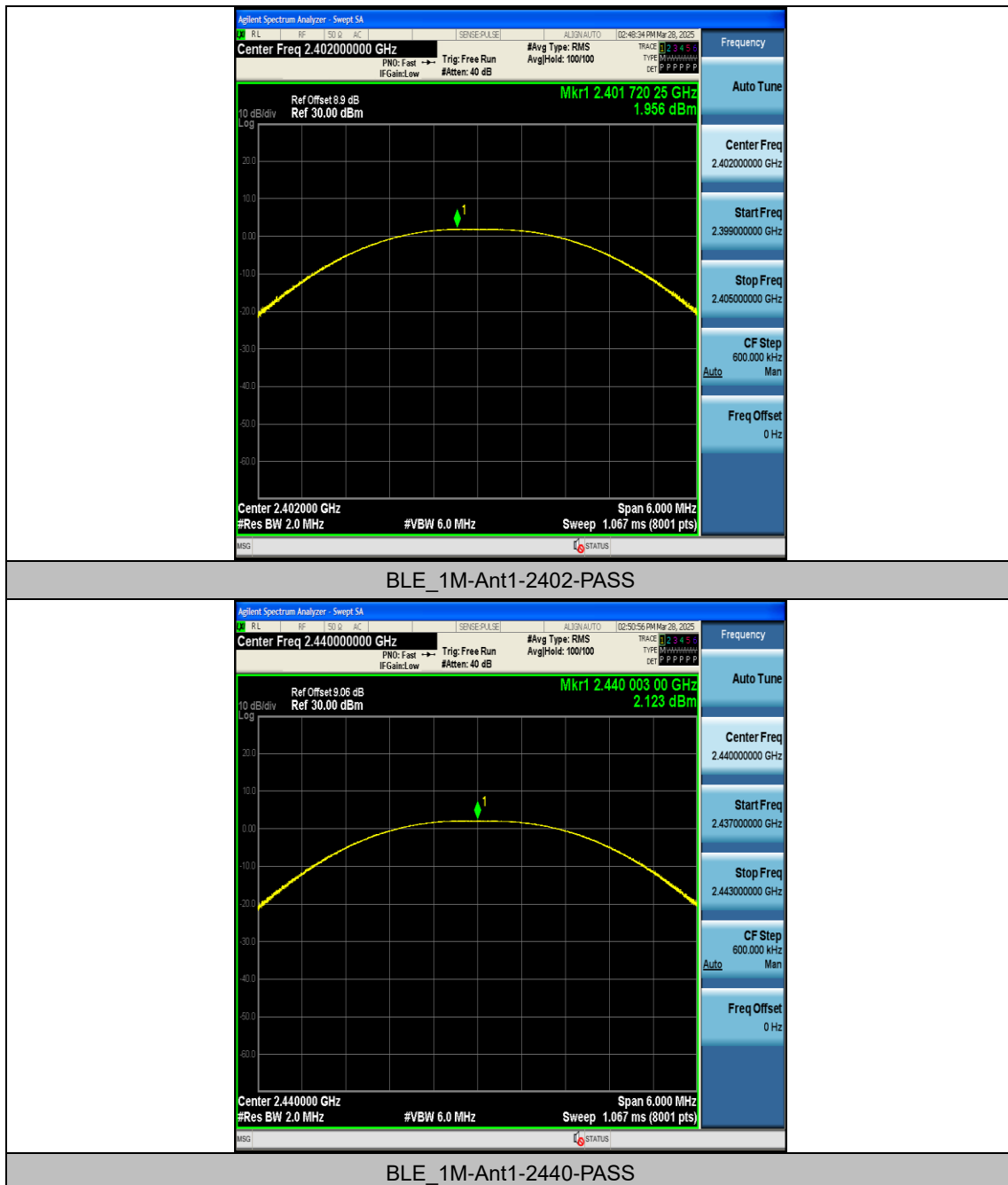


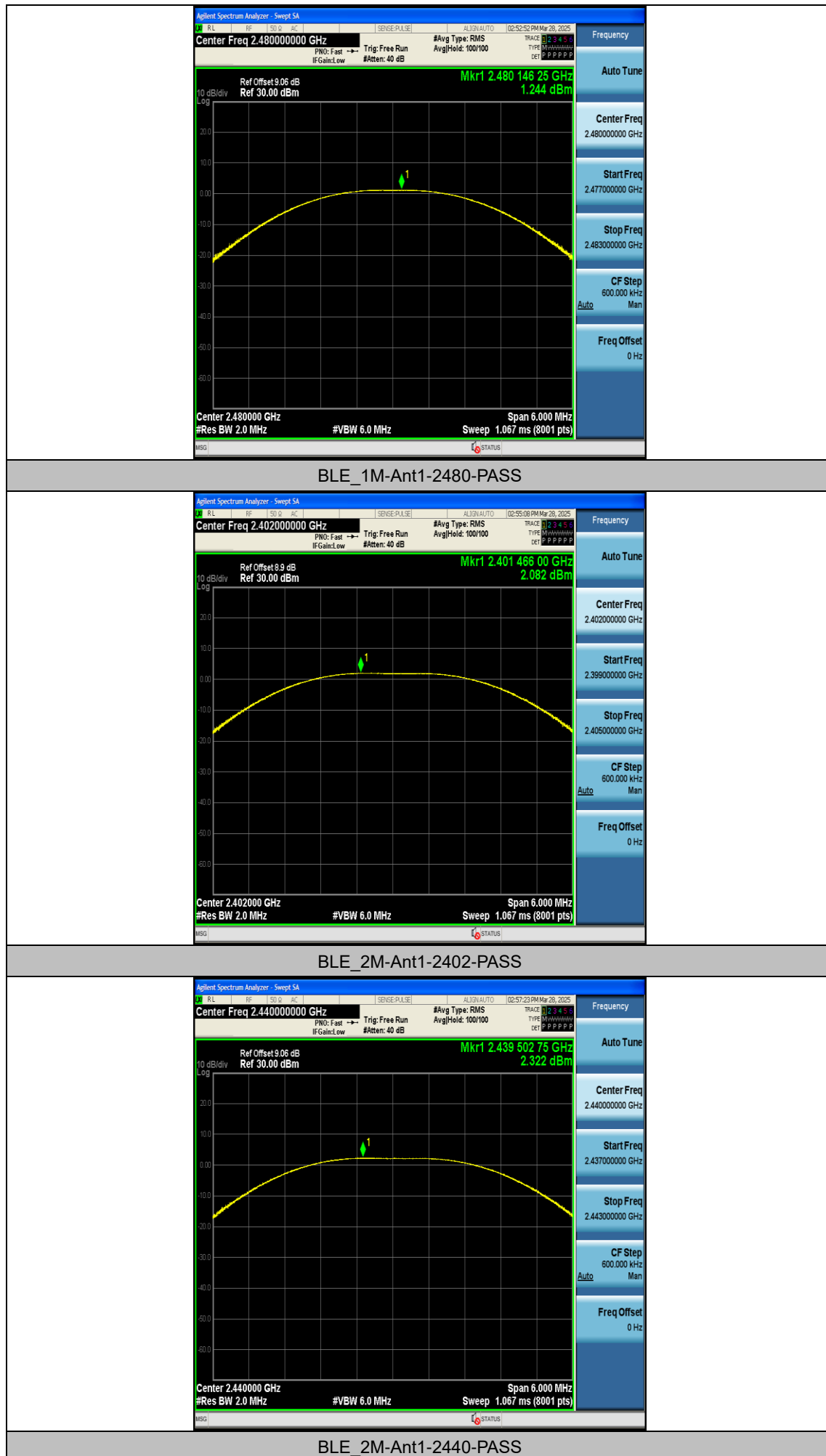
Appendix C: Maximum peak conducted output power

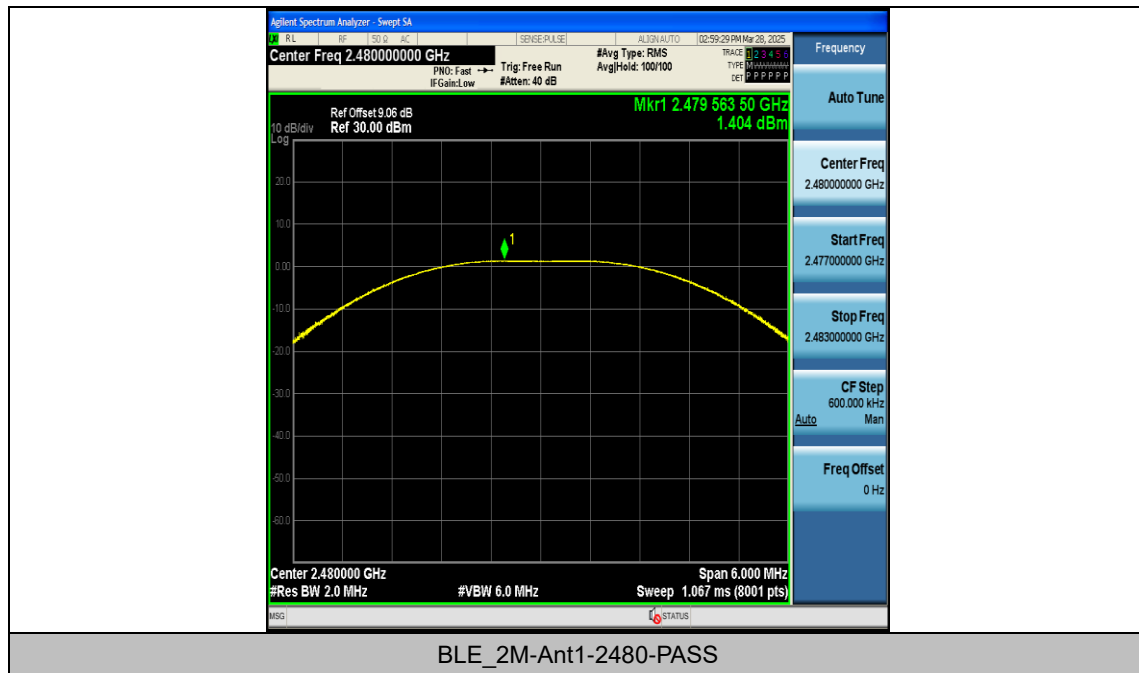
Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power [dBm]	Conducted Limit [dBm]	Verdict
BLE_1M	Ant1	2402	1.96	≤30	PASS
BLE_1M	Ant1	2440	2.12	≤30	PASS
BLE_1M	Ant1	2480	1.24	≤30	PASS
BLE_2M	Ant1	2402	2.08	≤30	PASS
BLE_2M	Ant1	2440	2.32	≤30	PASS
BLE_2M	Ant1	2480	1.40	≤30	PASS

Test Graphs Peak





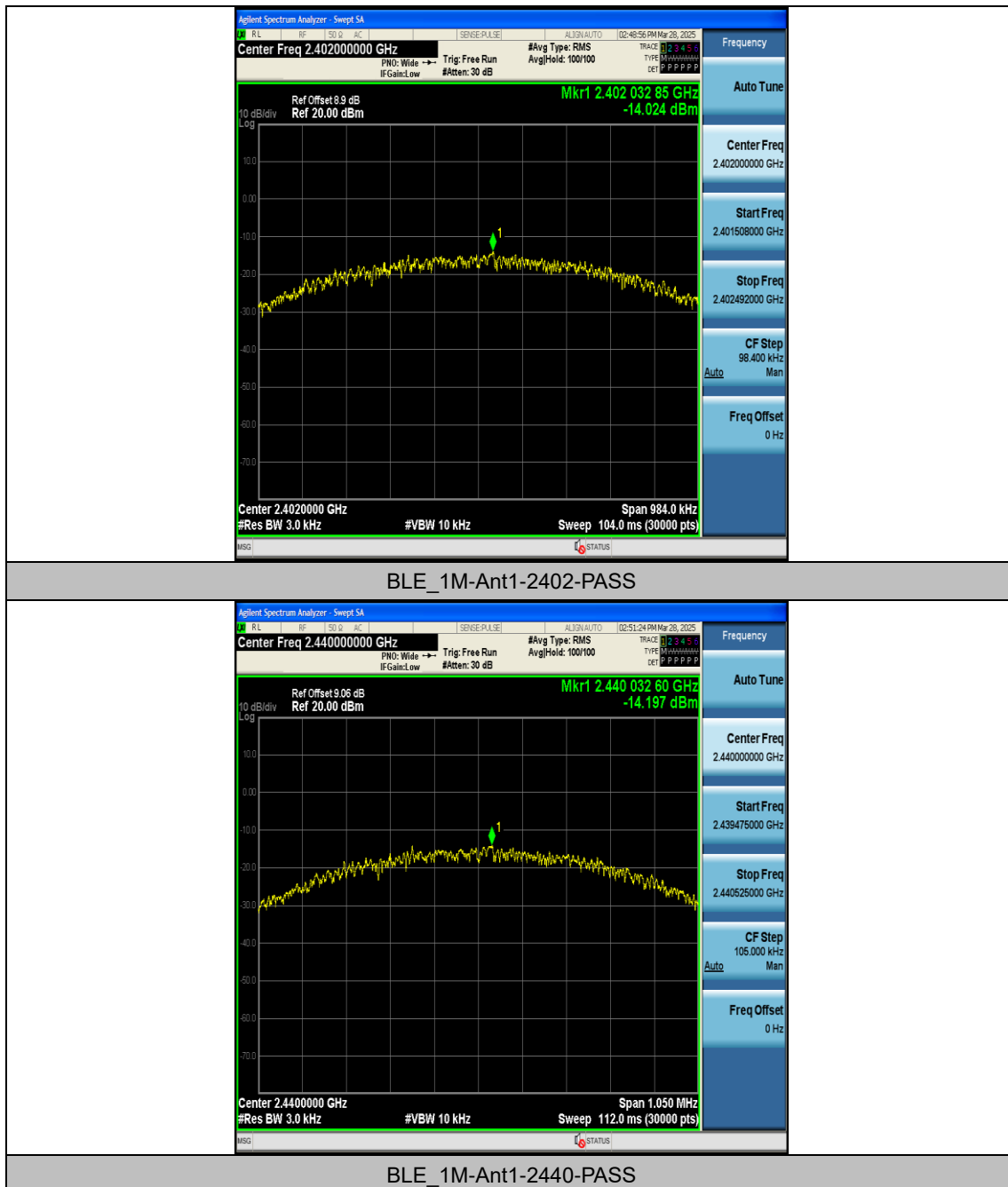


Appendix D: Maximum peak power spectral density

Test Result

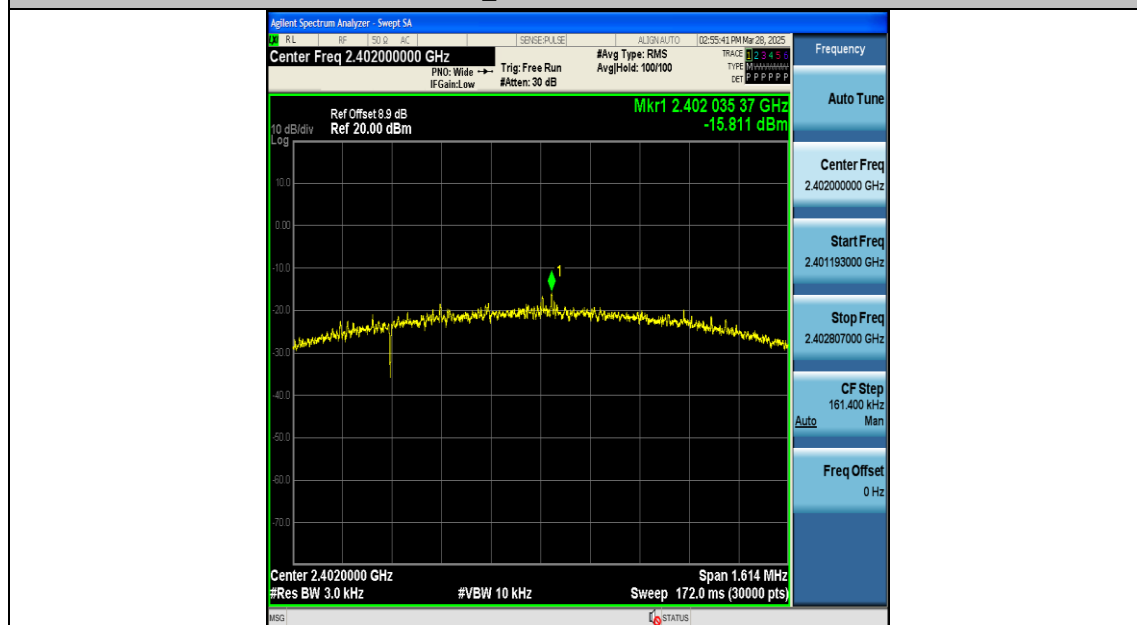
Test Mode	Antenna	Frequency [MHz]	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-14.02	≤8.00	PASS
BLE_1M	Ant1	2440	-14.20	≤8.00	PASS
BLE_1M	Ant1	2480	-14.65	≤8.00	PASS
BLE_2M	Ant1	2402	-15.81	≤8.00	PASS
BLE_2M	Ant1	2440	-15.70	≤8.00	PASS
BLE_2M	Ant1	2480	-16.49	≤8.00	PASS

Test Graphs

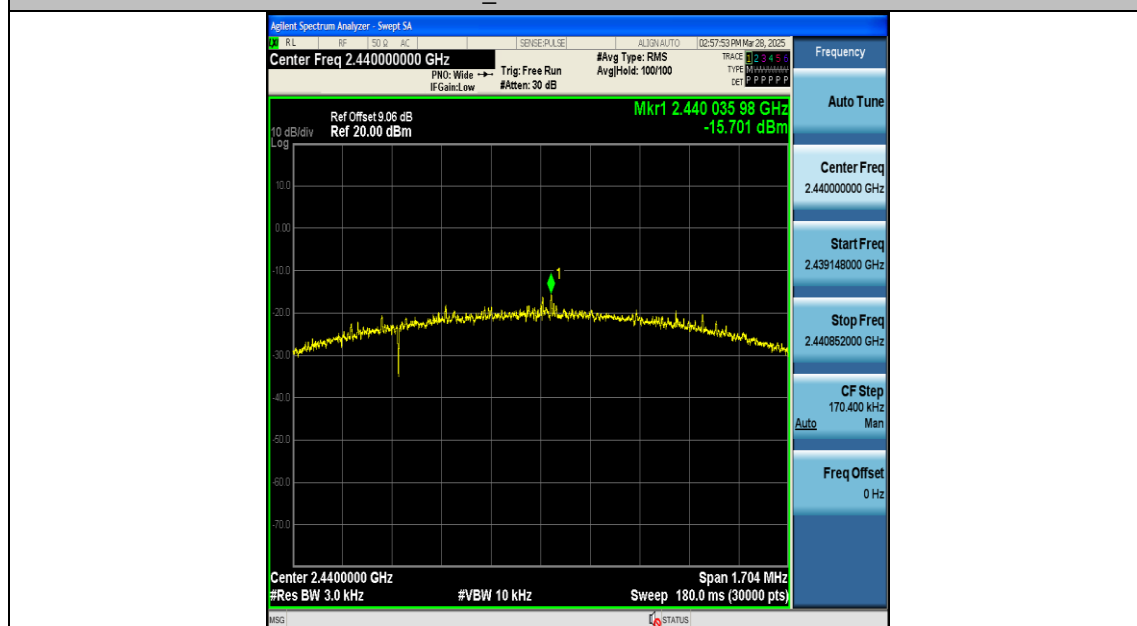




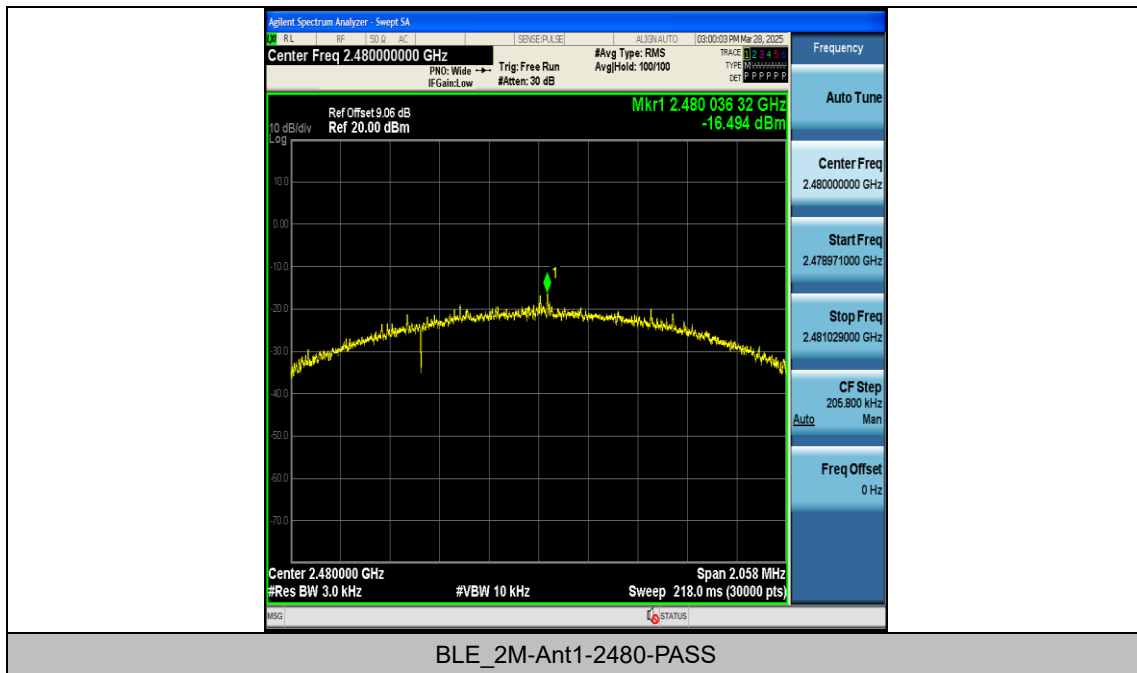
BLE_1M-Ant1-2480-PASS



BLE_2M-Ant1-2402-PASS



BLE_2M-Ant1-2440-PASS

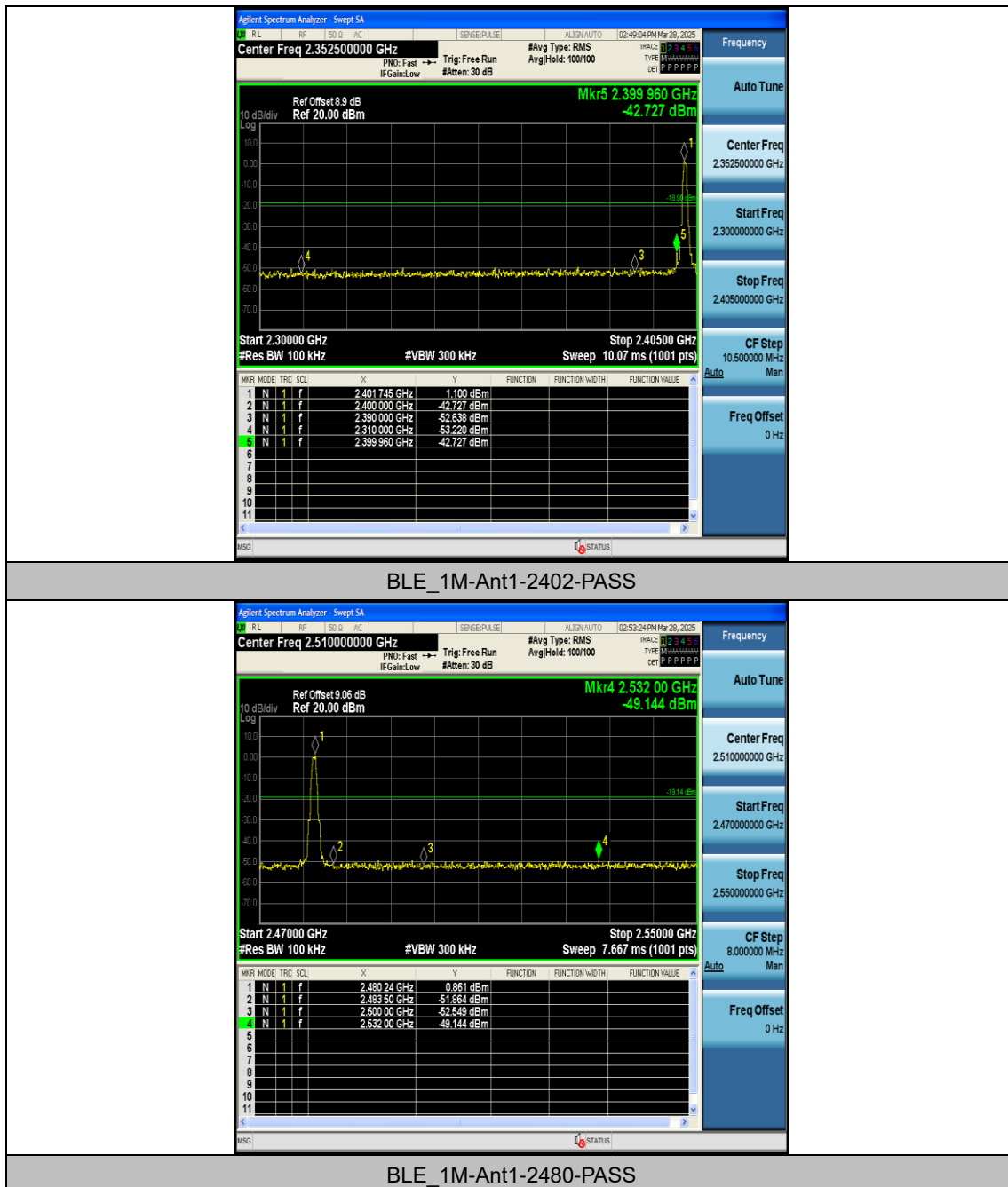


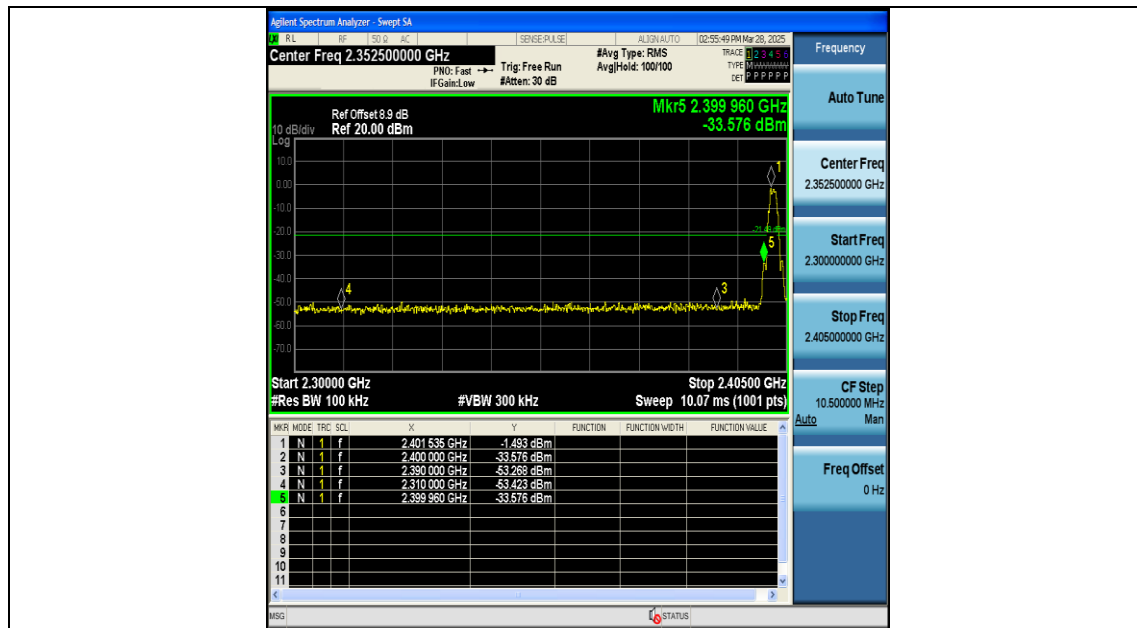
Appendix E: Band edge measurements

Test Result

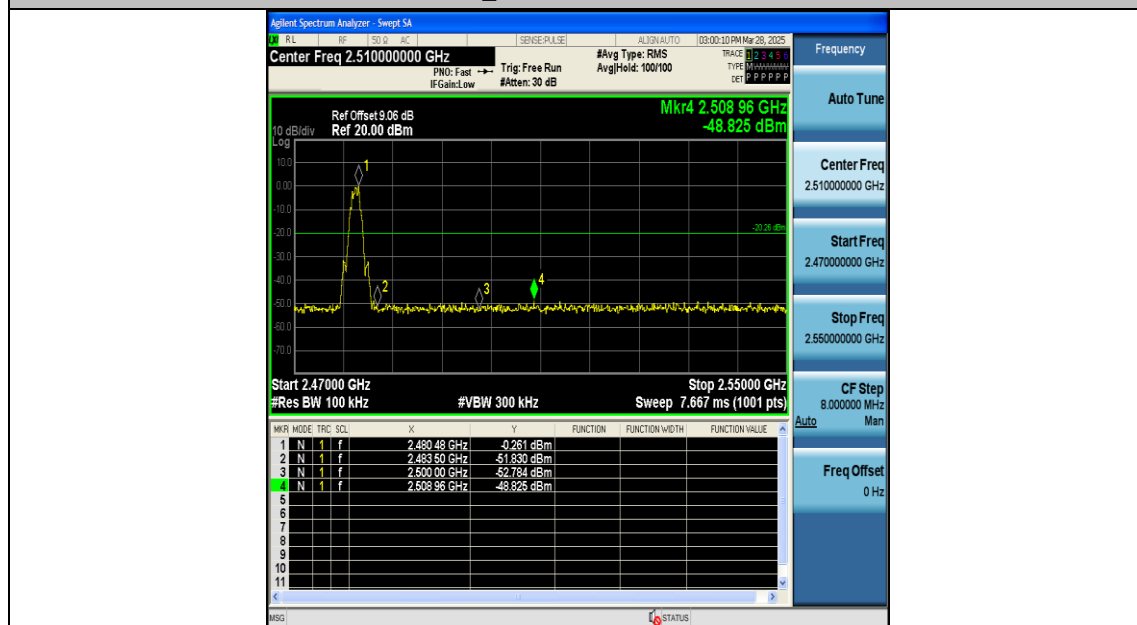
Test Mode	Antenna	Ch. Name	Frequency [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	1.10	-42.73	≤ -18.9	PASS
BLE_1M	Ant1	High	2480	0.86	-49.14	≤ -19.14	PASS
BLE_2M	Ant1	Low	2402	-1.49	-33.58	≤ -21.49	PASS
BLE_2M	Ant1	High	2480	-0.26	-48.83	≤ -20.26	PASS

Test Graphs





BLE_2M-Ant1-2402-PASS



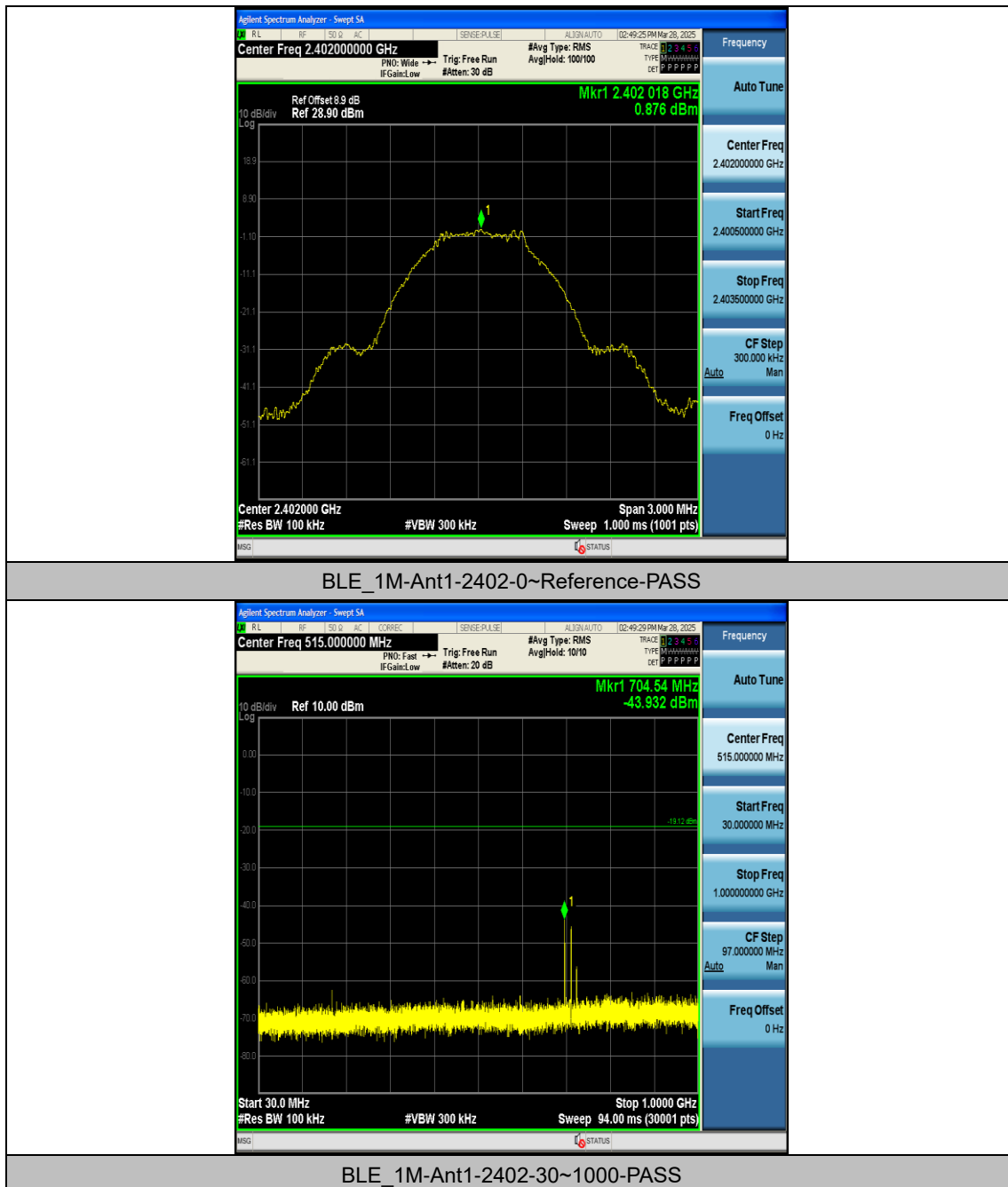
BLE_2M-Ant1-2480-PASS

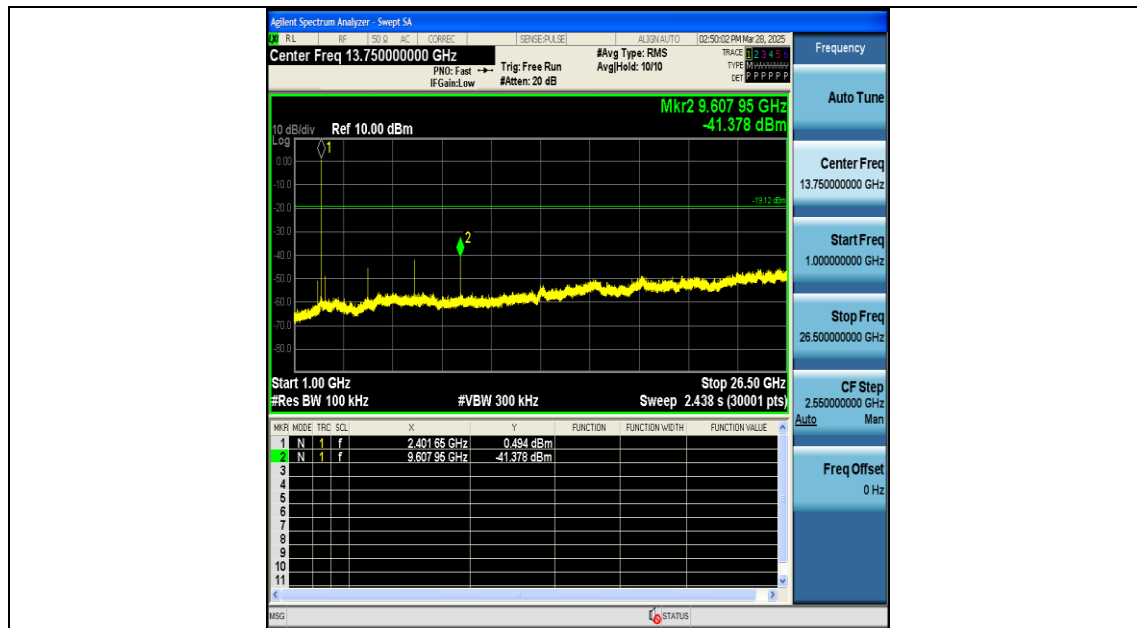
Appendix F: Conducted Spurious Emission

Test Result

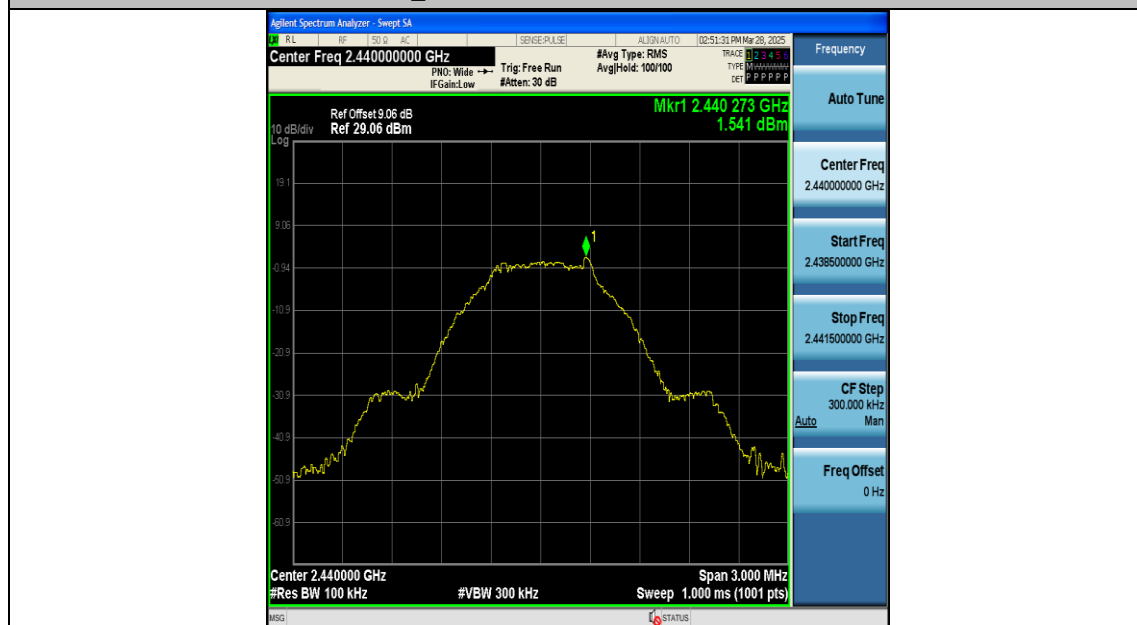
Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	0.88	0.88	---	PASS
BLE_1M	Ant1	2402	30~1000	0.88	-43.93	≤-19.12	PASS
BLE_1M	Ant1	2402	1000~26500	0.88	-41.38	≤-19.12	PASS
BLE_1M	Ant1	2440	0~Reference	1.54	1.54	---	PASS
BLE_1M	Ant1	2440	30~1000	1.54	-61.4	≤-18.46	PASS
BLE_1M	Ant1	2440	1000~26500	1.54	-39	≤-18.46	PASS
BLE_1M	Ant1	2480	0~Reference	0.92	0.92	---	PASS
BLE_1M	Ant1	2480	30~1000	0.92	-41.37	≤-19.08	PASS
BLE_1M	Ant1	2480	1000~26500	0.92	-41.76	≤-19.08	PASS
BLE_2M	Ant1	2402	0~Reference	0.10	0.10	---	PASS
BLE_2M	Ant1	2402	30~1000	0.10	-44.4	≤-19.9	PASS
BLE_2M	Ant1	2402	1000~26500	0.10	-41.11	≤-19.9	PASS
BLE_2M	Ant1	2440	0~Reference	-0.18	-0.18	---	PASS
BLE_2M	Ant1	2440	30~1000	-0.18	-60.45	≤-20.18	PASS
BLE_2M	Ant1	2440	1000~26500	-0.18	-38.66	≤-20.18	PASS
BLE_2M	Ant1	2480	0~Reference	-0.01	-0.01	---	PASS
BLE_2M	Ant1	2480	30~1000	-0.01	-48.33	≤-20.01	PASS
BLE_2M	Ant1	2480	1000~26500	-0.01	-41.61	≤-20.01	PASS

Test Graphs

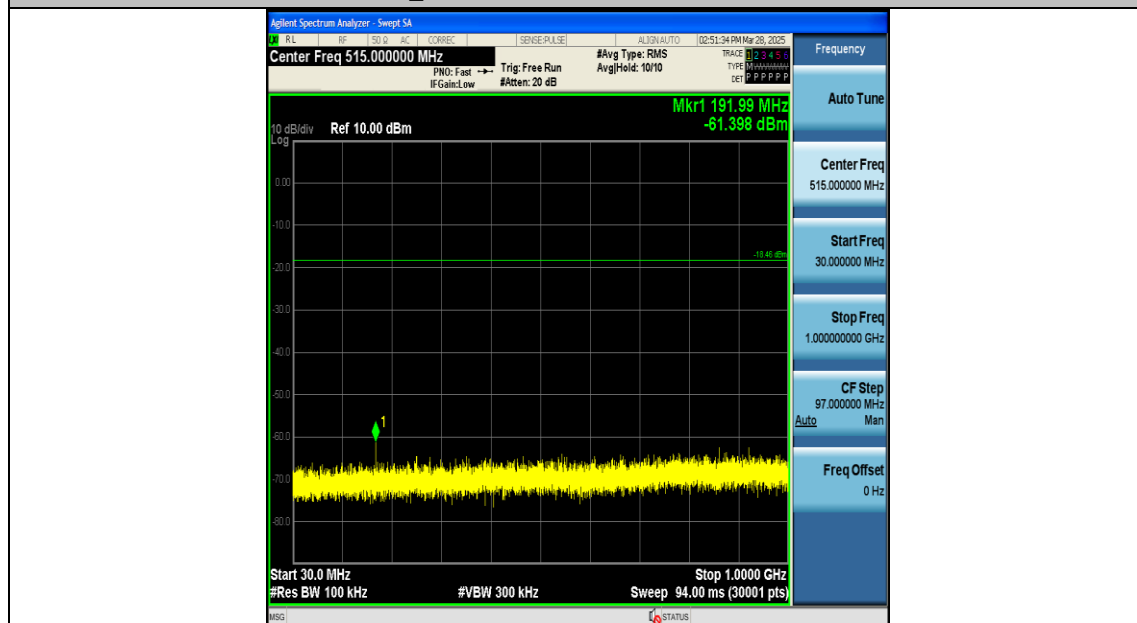




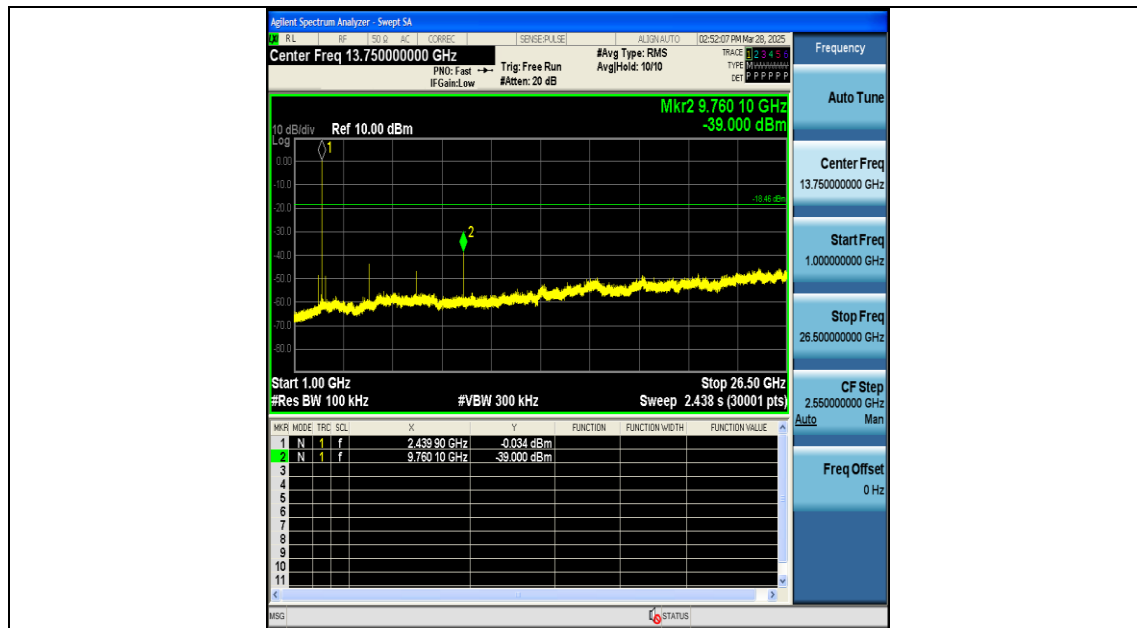
BLE_1M-Ant1-2402-1000~26500-PASS



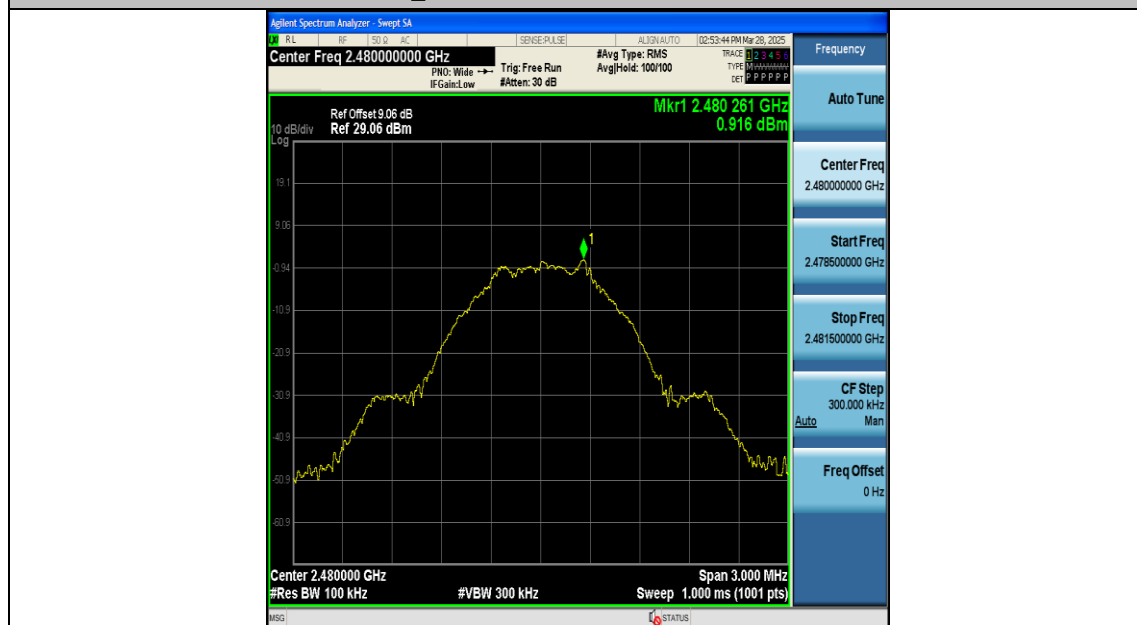
BLE_1M-Ant1-2440-0~Reference-PASS



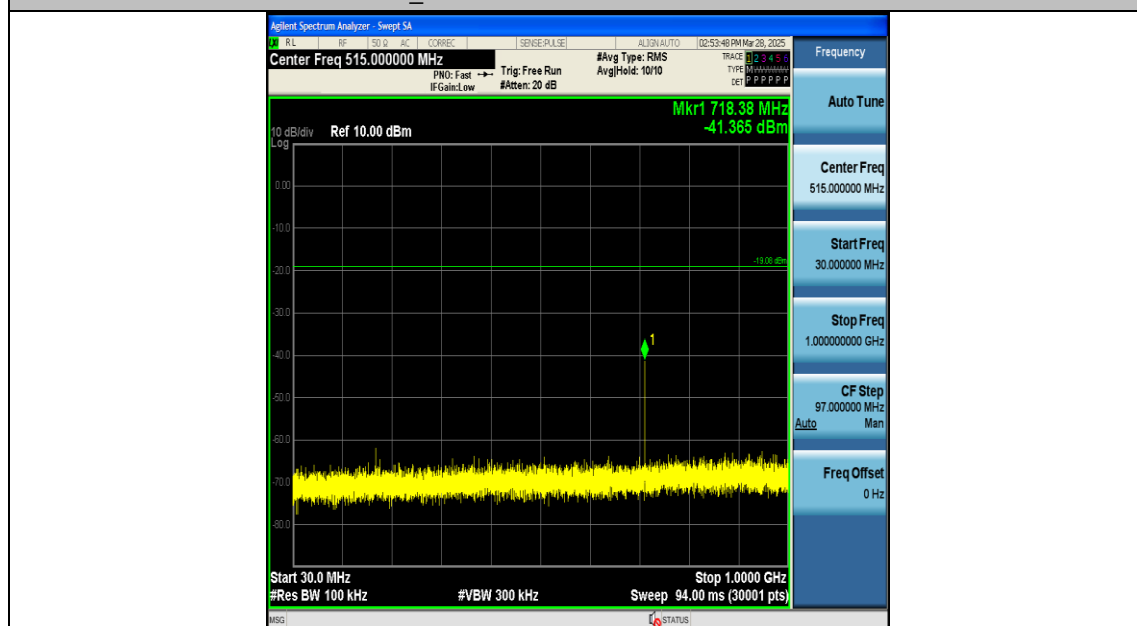
BLE_1M-Ant1-2440-30~1000-PASS



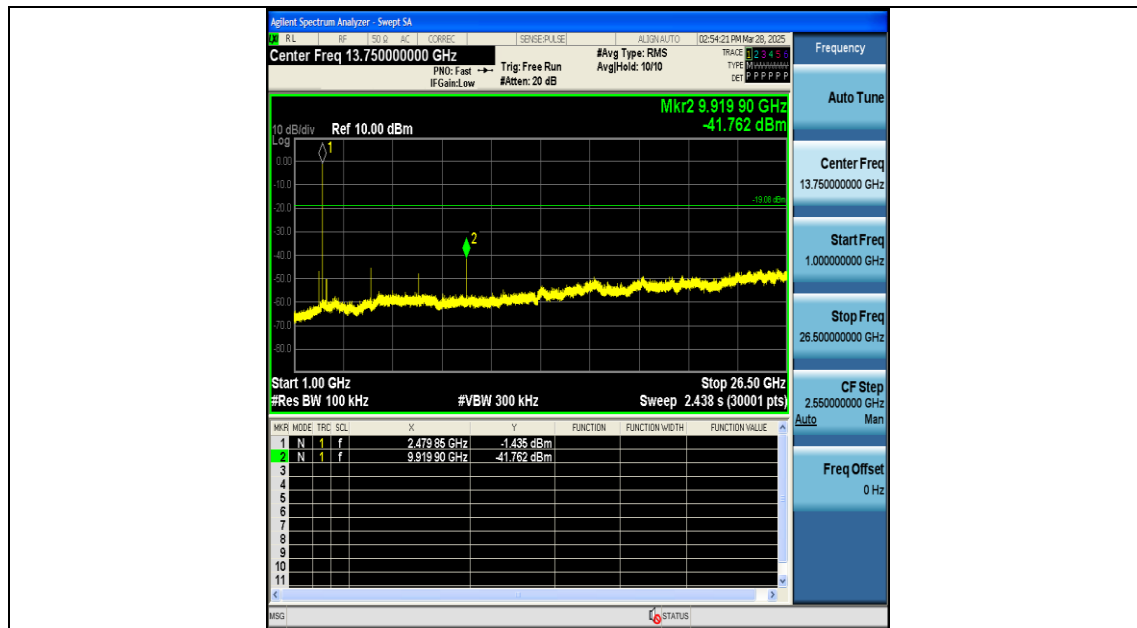
BLE_1M-Ant1-2440-1000~26500-PASS



BLE_1M-Ant1-2480-0~Reference-PASS



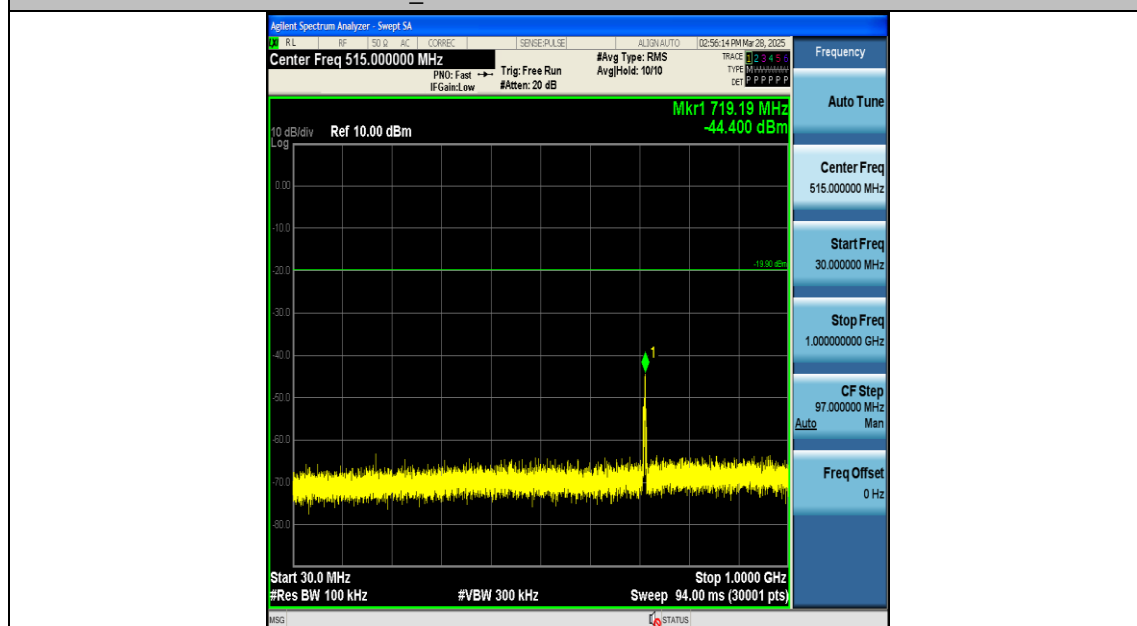
BLE_1M-Ant1-2480-30~1000-PASS



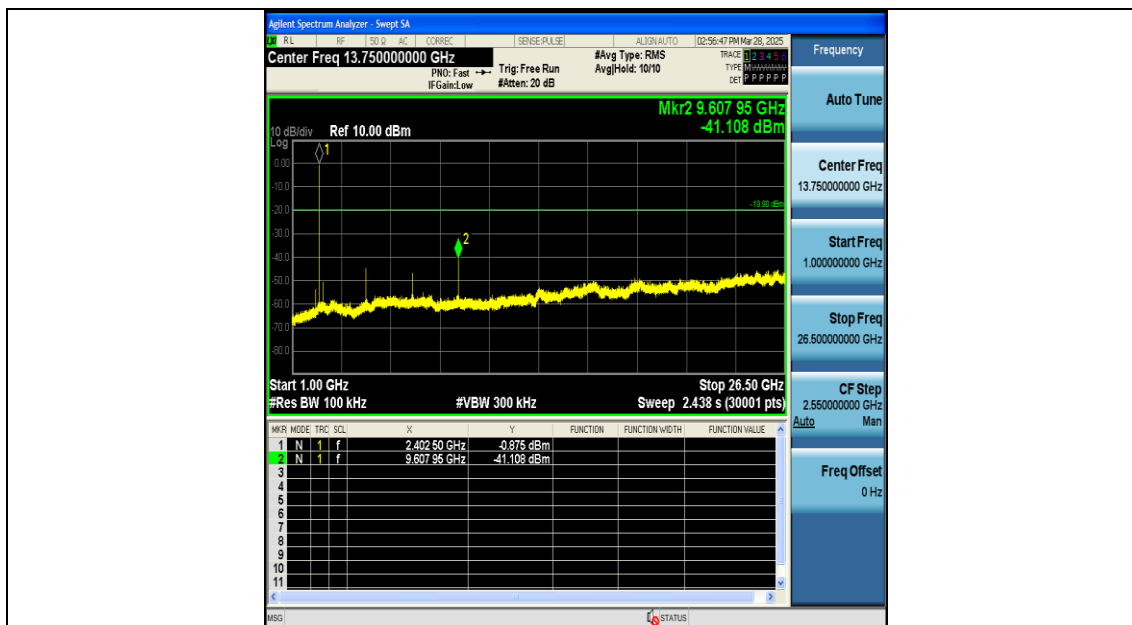
BLE_1M-Ant1-2480-1000~26500-PASS



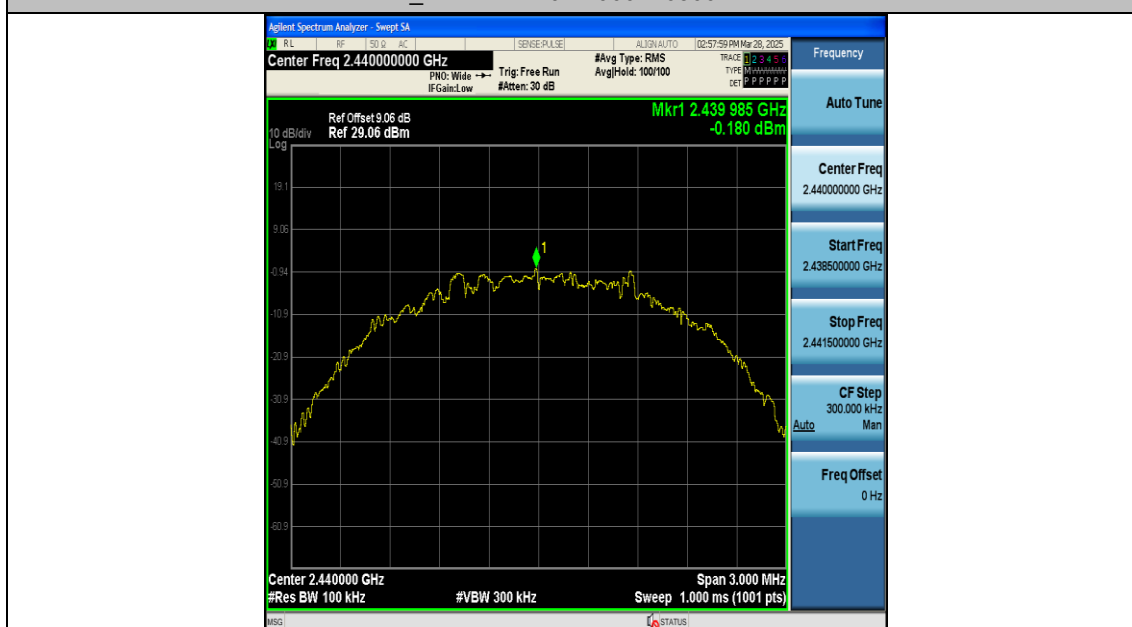
BLE_2M-Ant1-2402-0~Reference-PASS



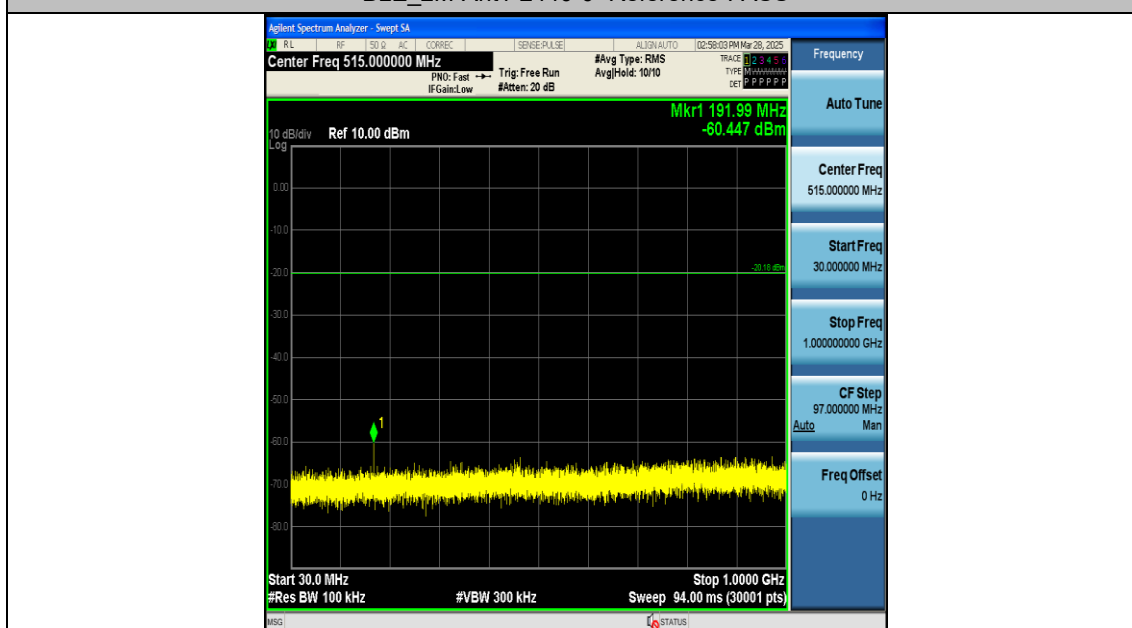
BLE_2M-Ant1-2402-30~1000-PASS



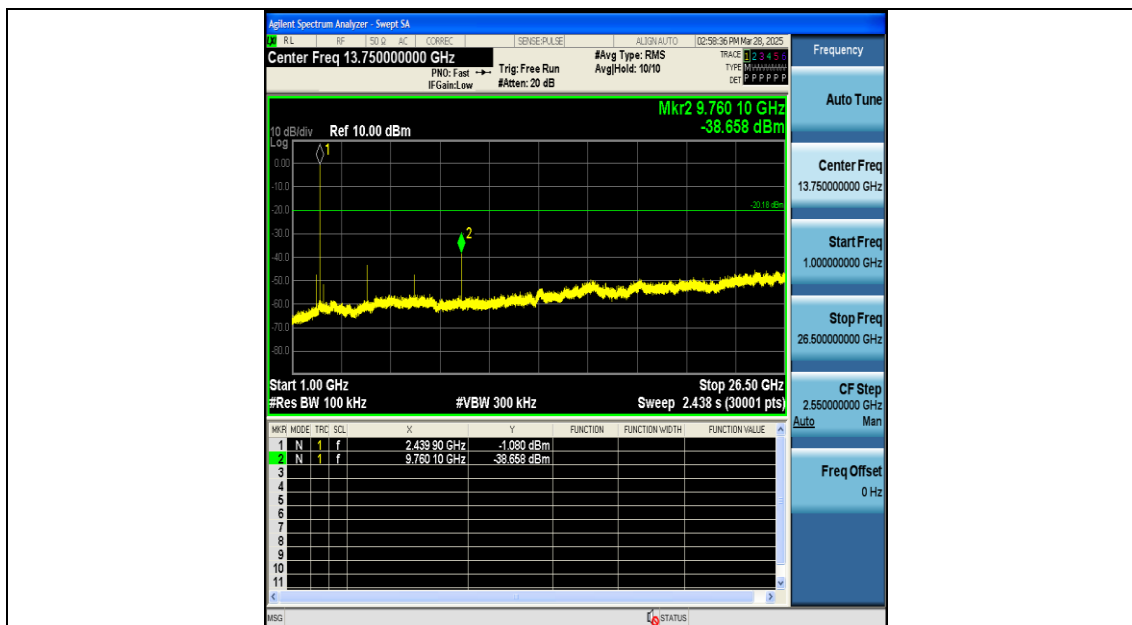
BLE_2M-Ant1-2402-1000~26500-PASS



BLE_2M-Ant1-2440-0~Reference-PASS



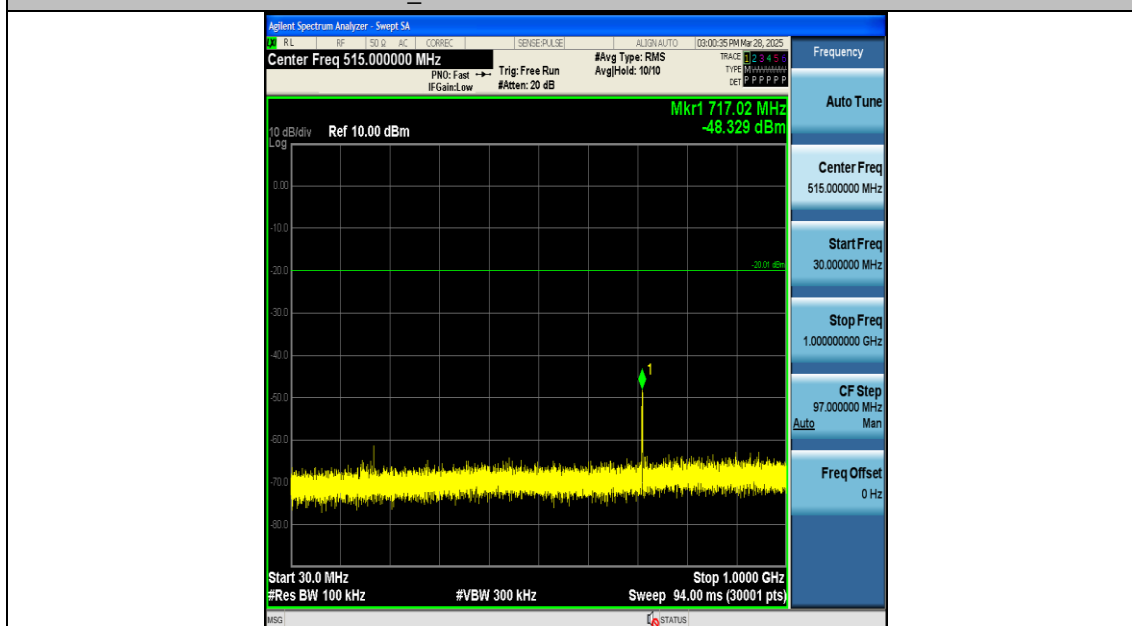
BLE_2M-Ant1-2440-30~1000-PASS



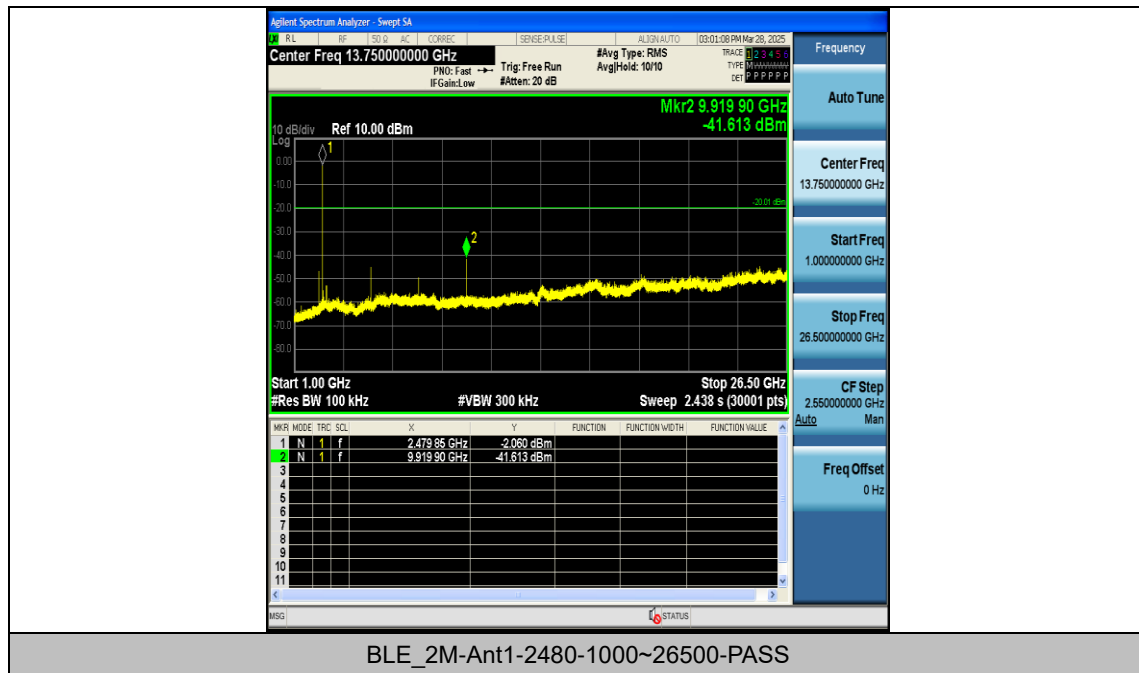
BLE_2M-Ant1-2440-1000~26500-PASS



BLE_2M-Ant1-2480-0~Reference-PASS



BLE_2M-Ant1-2480-30~1000-PASS

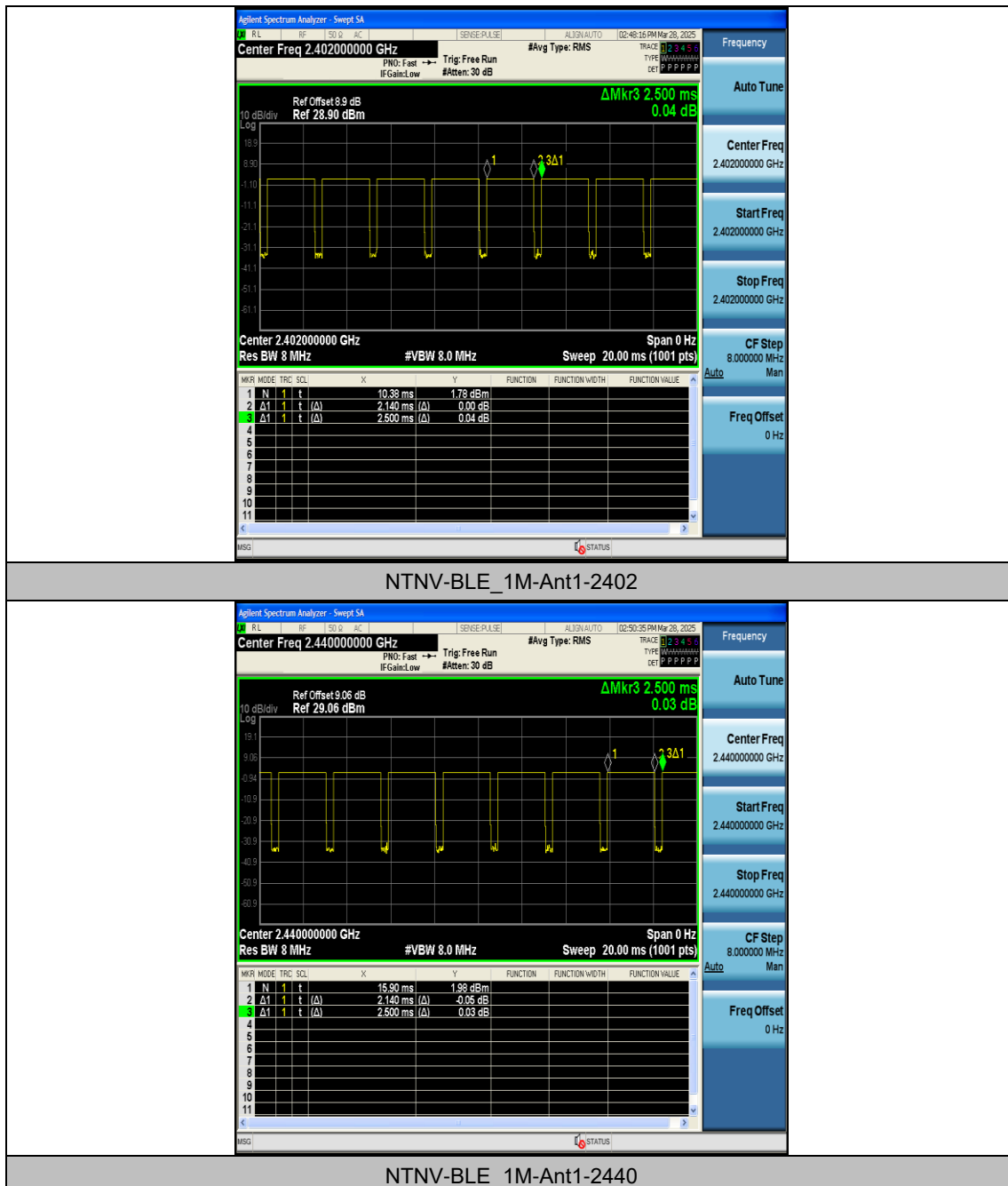


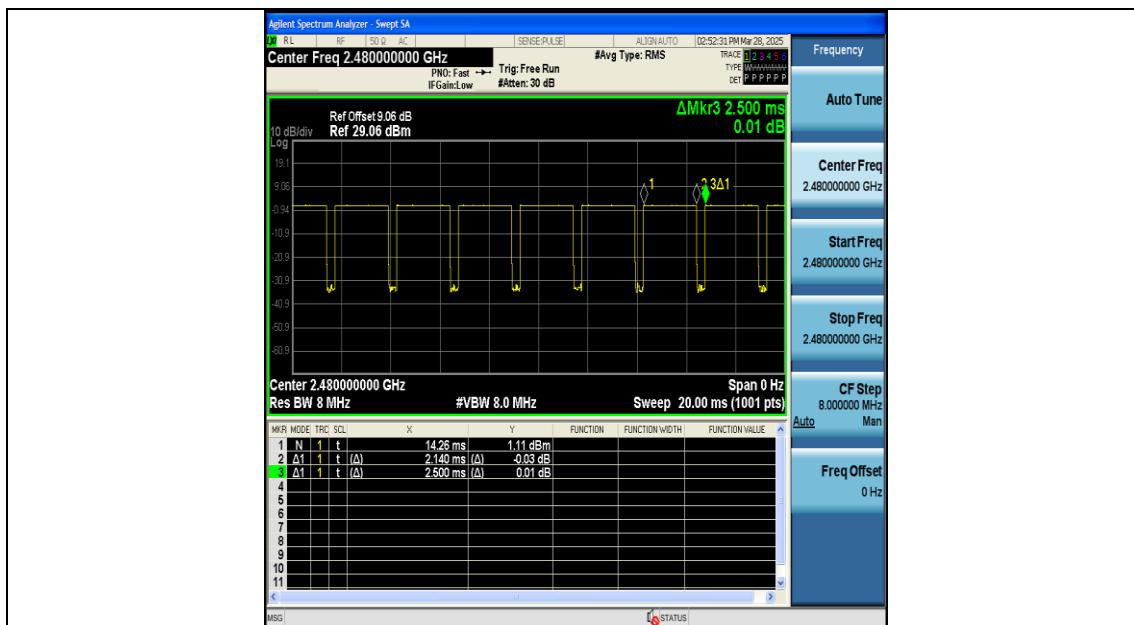
Appendix G: Duty Cycle

Test Result

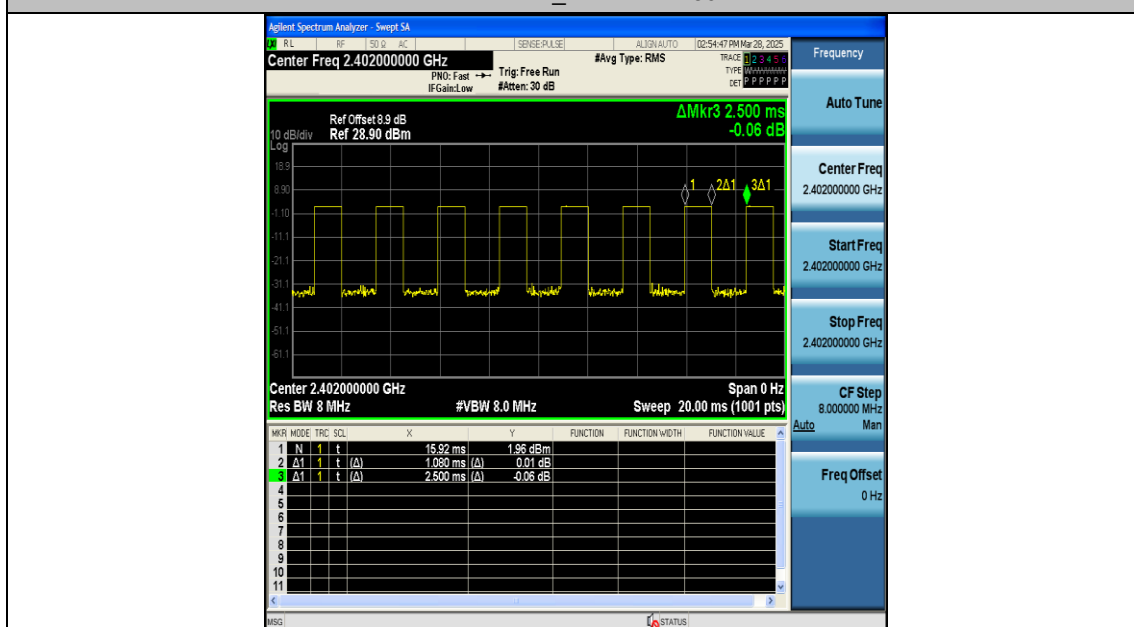
Test Mode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor [dB]
BLE_1M	Ant1	2402	2.14	2.50	85.60	0.68
BLE_1M	Ant1	2440	2.14	2.50	85.60	0.68
BLE_1M	Ant1	2480	2.14	2.50	85.60	0.68
BLE_2M	Ant1	2402	1.08	2.50	43.20	3.65
BLE_2M	Ant1	2440	1.08	2.50	43.20	3.65
BLE_2M	Ant1	2480	1.08	2.50	43.20	3.65

Test Graphs

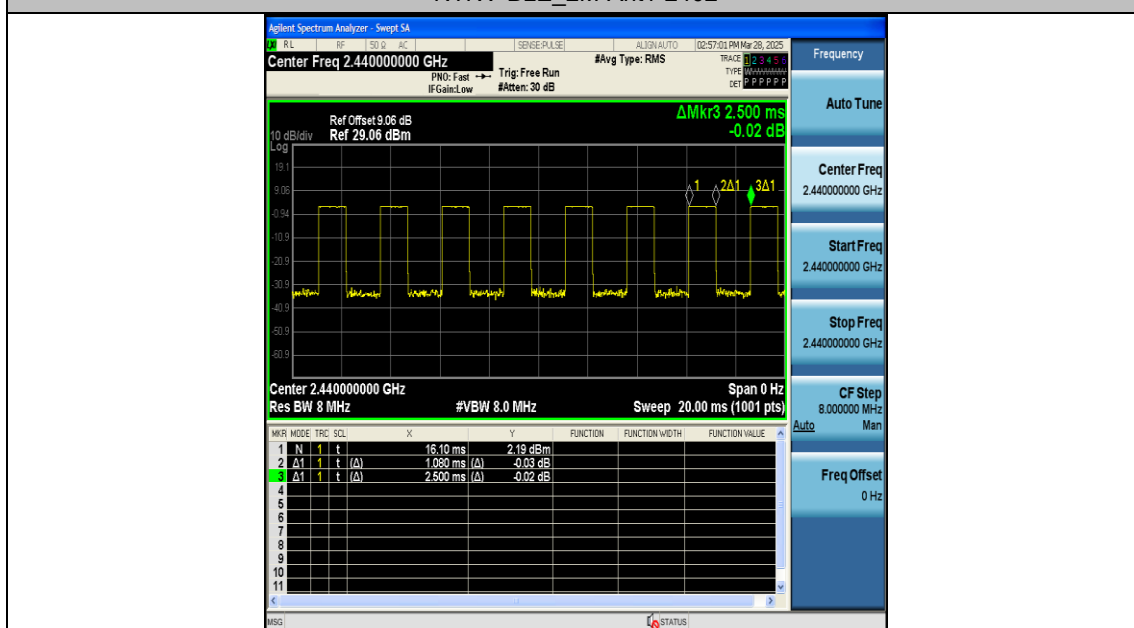




NTNV-BLE_1M-Ant1-2480



NTNV-BLE_2M-Ant1-2402



NTNV-BLE_2M-Ant1-2440

