

Appendix: Bluetooth LE

Contents

Appendix A: DTS Bandwidth 3

 Test Result 3

 Test Graphs 4

Appendix B: Occupied Channel Bandwidth6

 Test Result 6

 Test Graphs 7

Appendix C: Maximum conducted output power9

 Test Result Peak 9

 Test Graphs Peak 10

Appendix D: Maximum power spectral density 12

 Test Result 12

 Test Graphs 13

Appendix F: Band edge measurements15

 Test Result 15

 Test Graphs 16

Appendix G: Conducted Spurious Emission 17

 Test Result 17

 Test Graphs 18

Appendix H: Duty Cycle 23

 Test Result 23

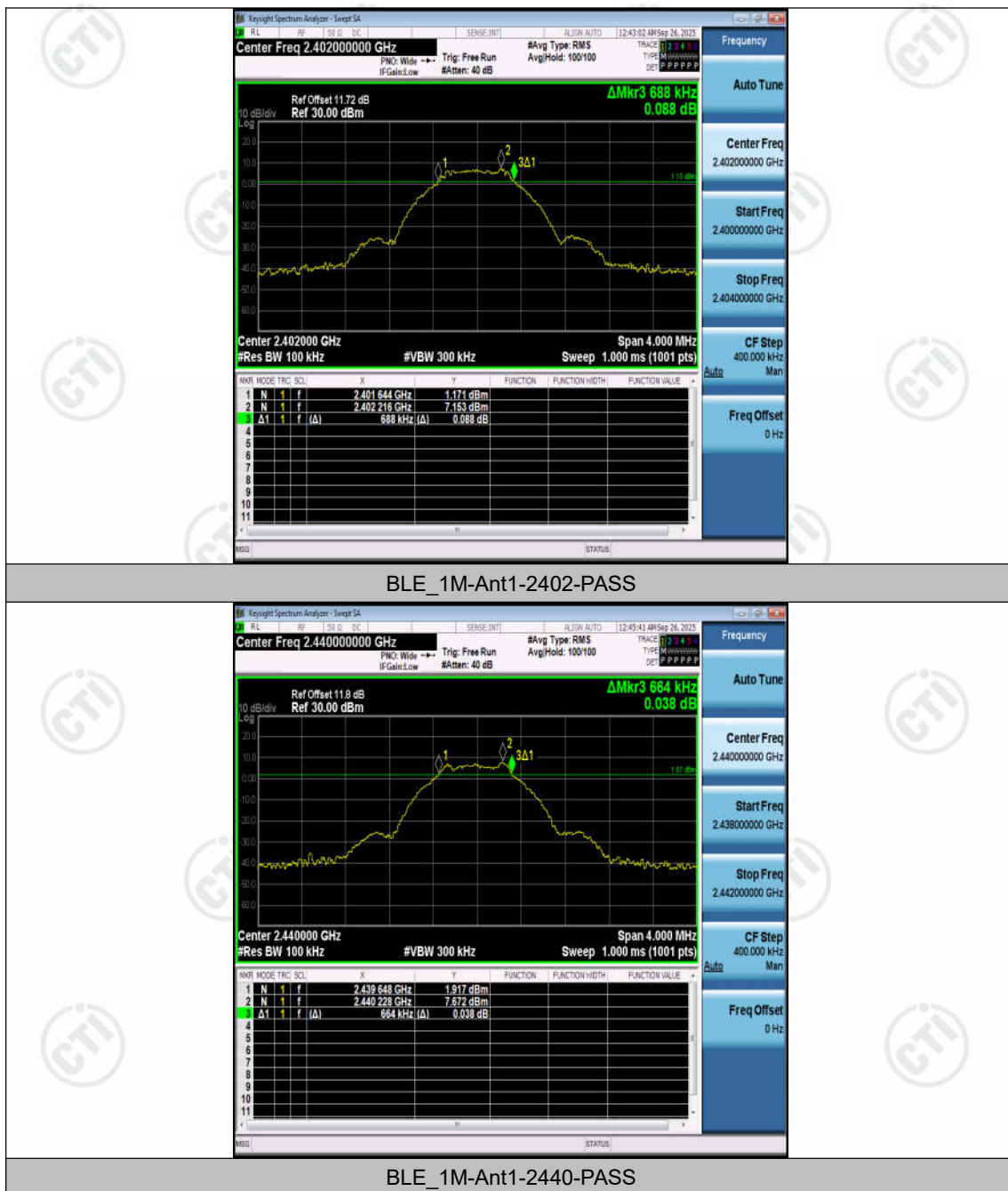
 Test Graphs 24

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.688	2401.644	2402.332	0.5	PASS
BLE_1M	Ant1	2440	0.664	2439.648	2440.312	0.5	PASS
BLE_1M	Ant1	2480	0.652	2479.664	2480.316	0.5	PASS

Test Graphs

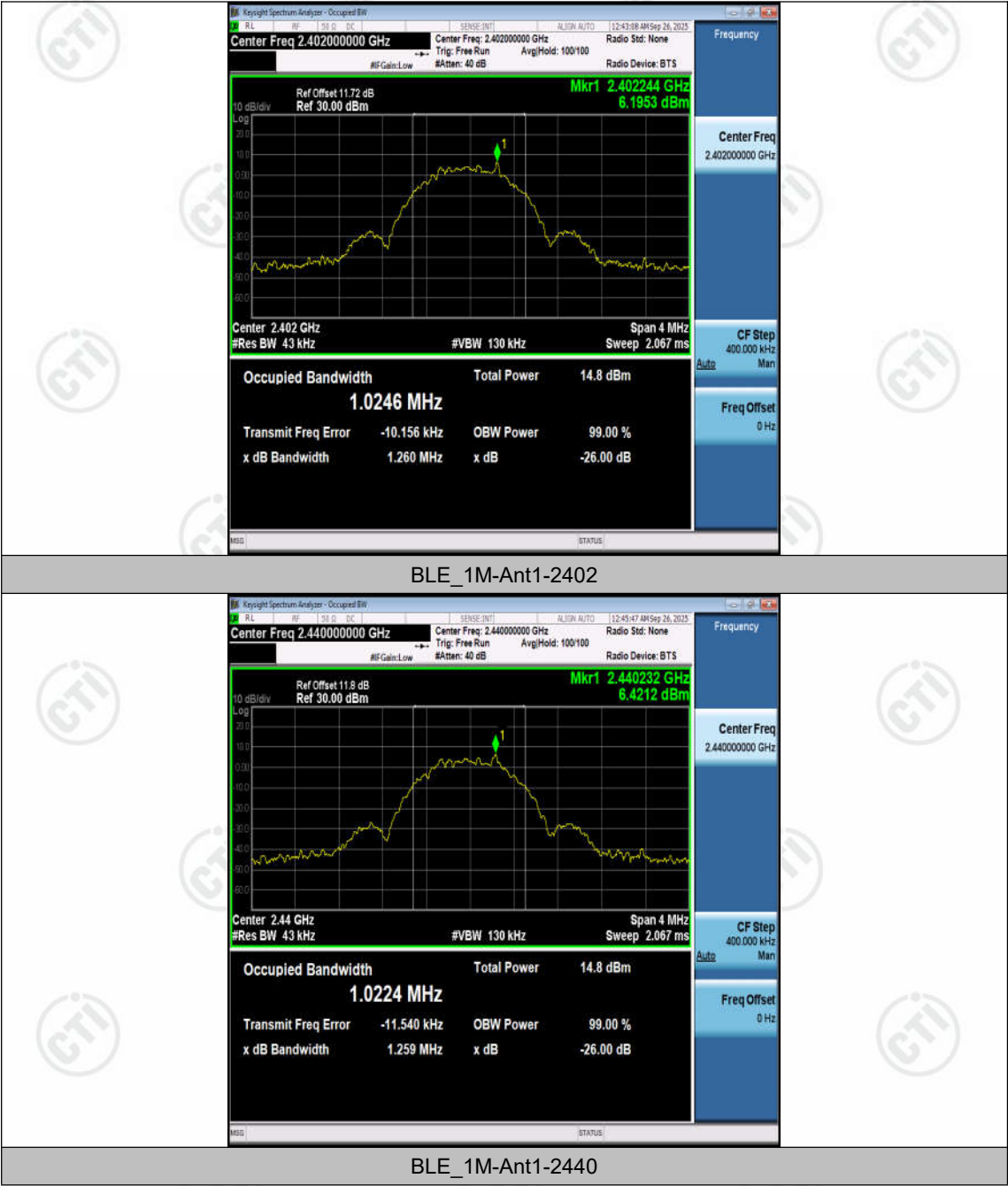


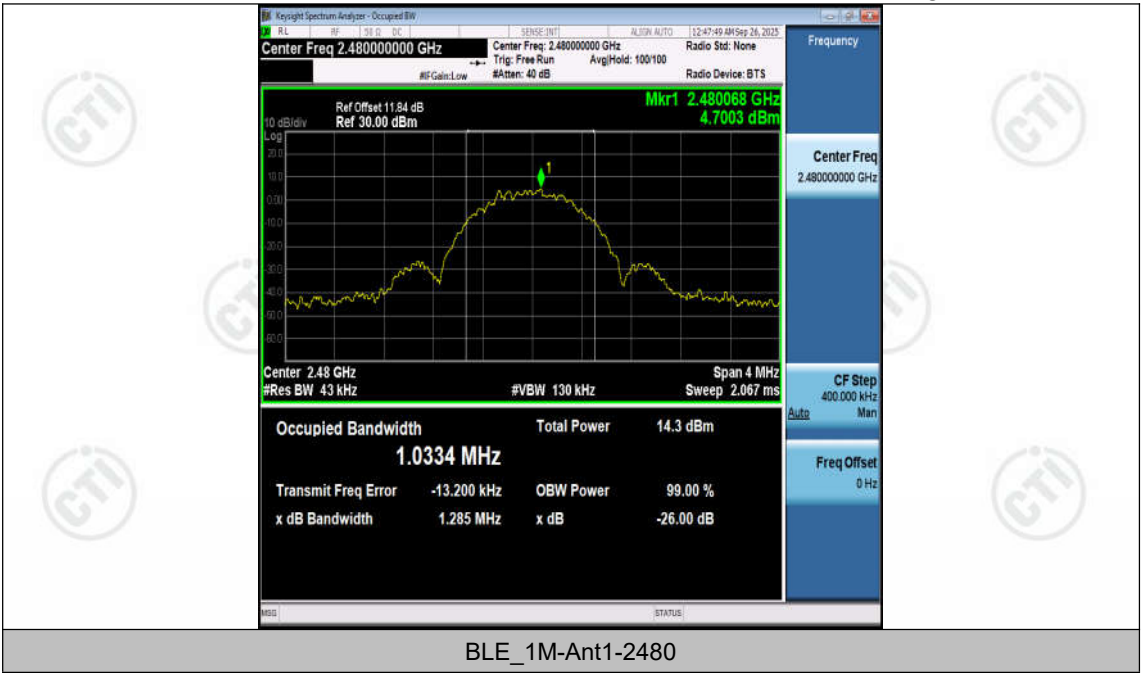
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0246	2401.4775	2402.5021	---	---
BLE_1M	Ant1	2440	1.0224	2439.4773	2440.4997	---	---
BLE_1M	Ant1	2480	1.0334	2479.4701	2480.5035	---	---

Test Graphs



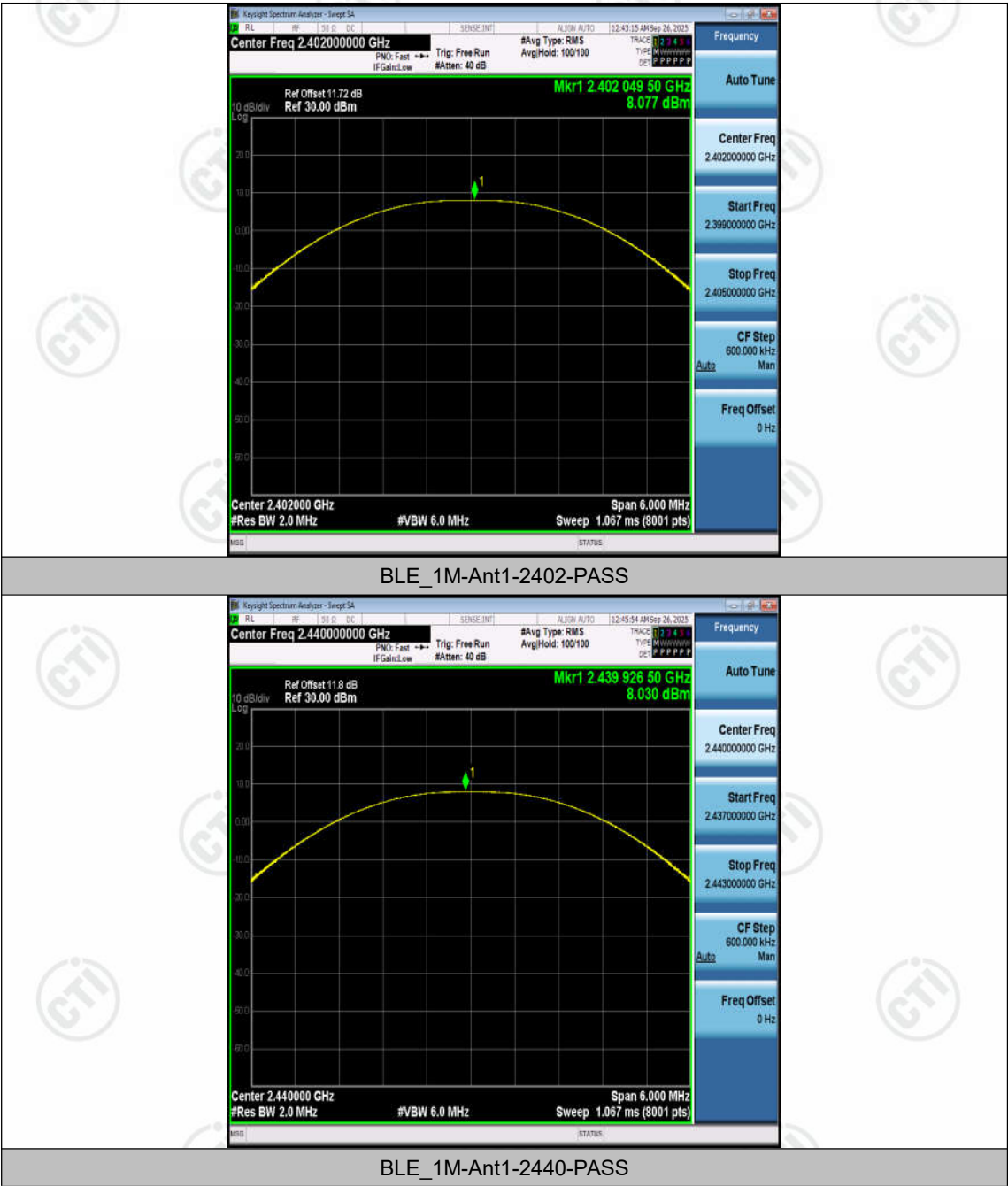


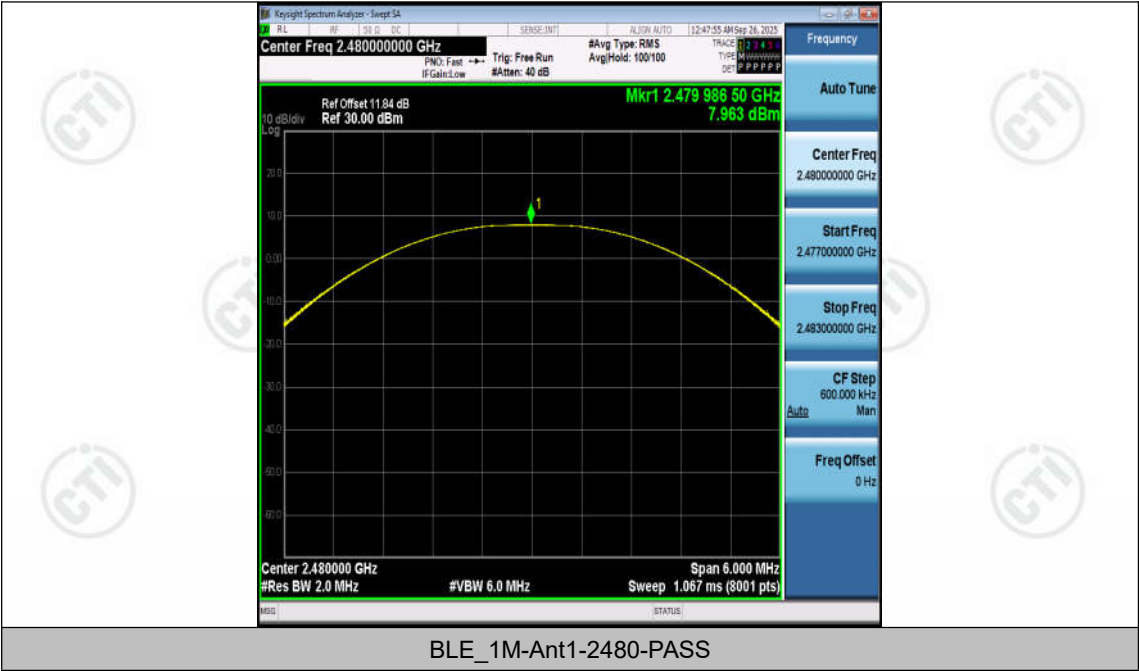
Appendix C: Maximum conducted output power

Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	8.08	≤30	PASS
BLE_1M	Ant1	2440	8.03	≤30	PASS
BLE_1M	Ant1	2480	7.96	≤30	PASS

Test Graphs Peak



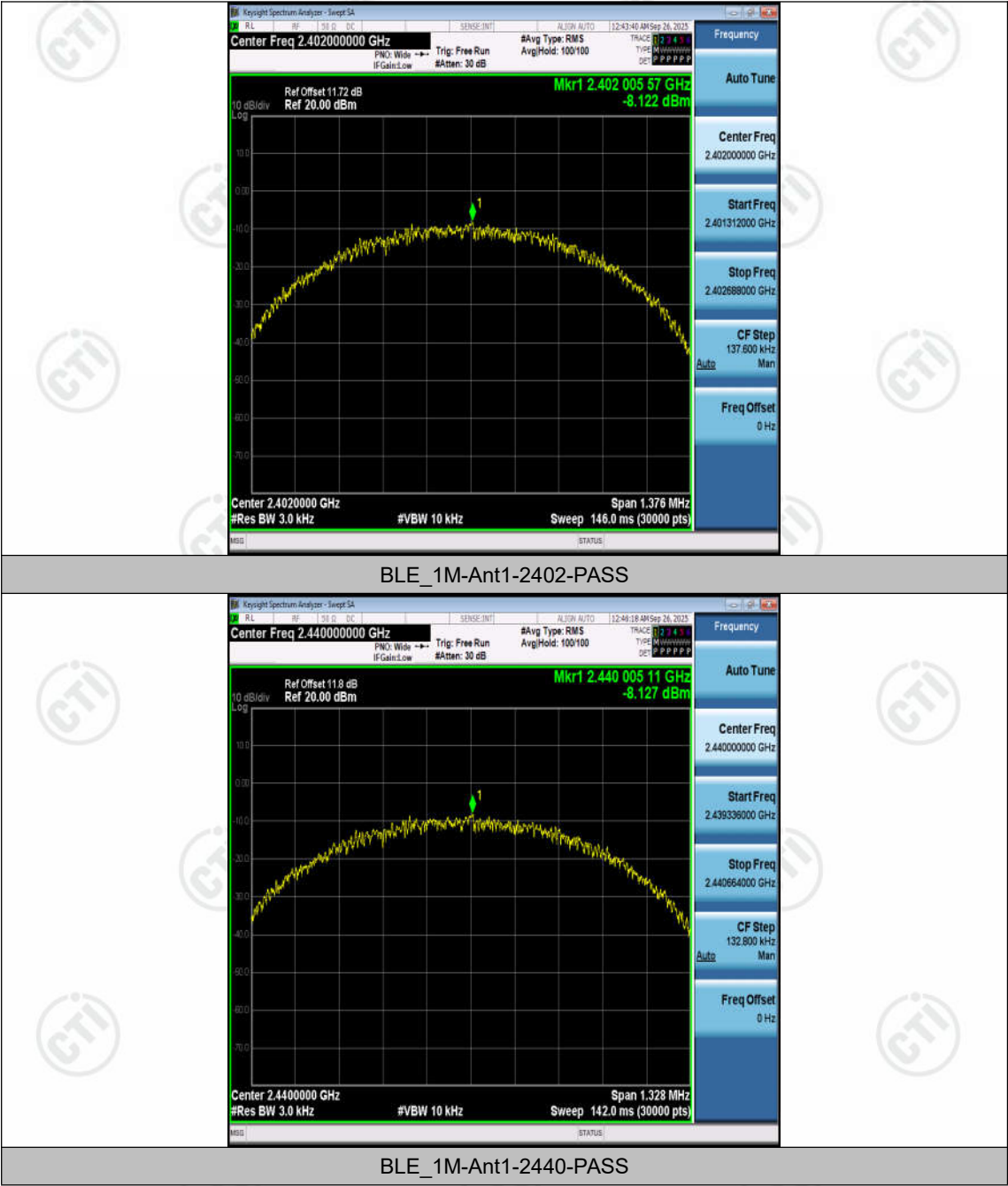


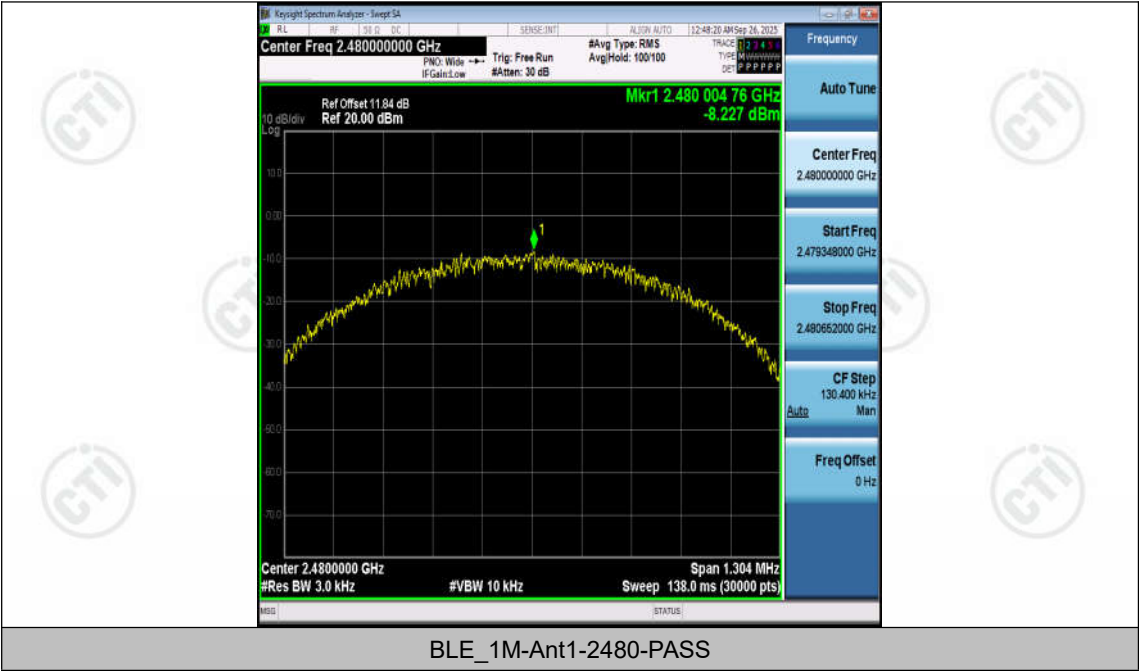
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-8.12	≤8.00	PASS
BLE_1M	Ant1	2440	-8.13	≤8.00	PASS
BLE_1M	Ant1	2480	-8.23	≤8.00	PASS

Test Graphs



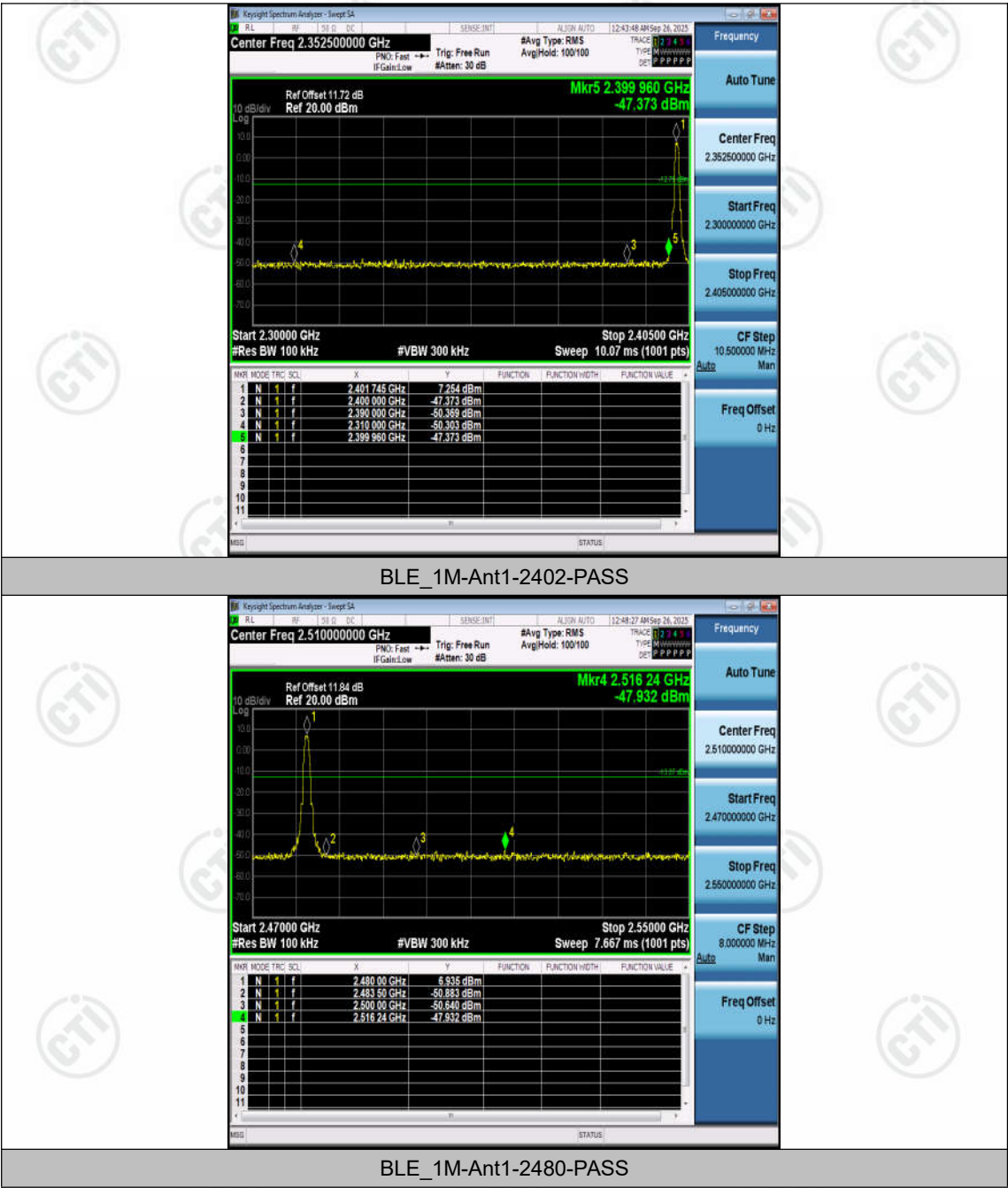


Appendix F: Band edge measurements

Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	7.25	-47.37	≤-12.75	PASS
BLE_1M	Ant1	High	2480	6.94	-47.93	≤-13.07	PASS

Test Graphs

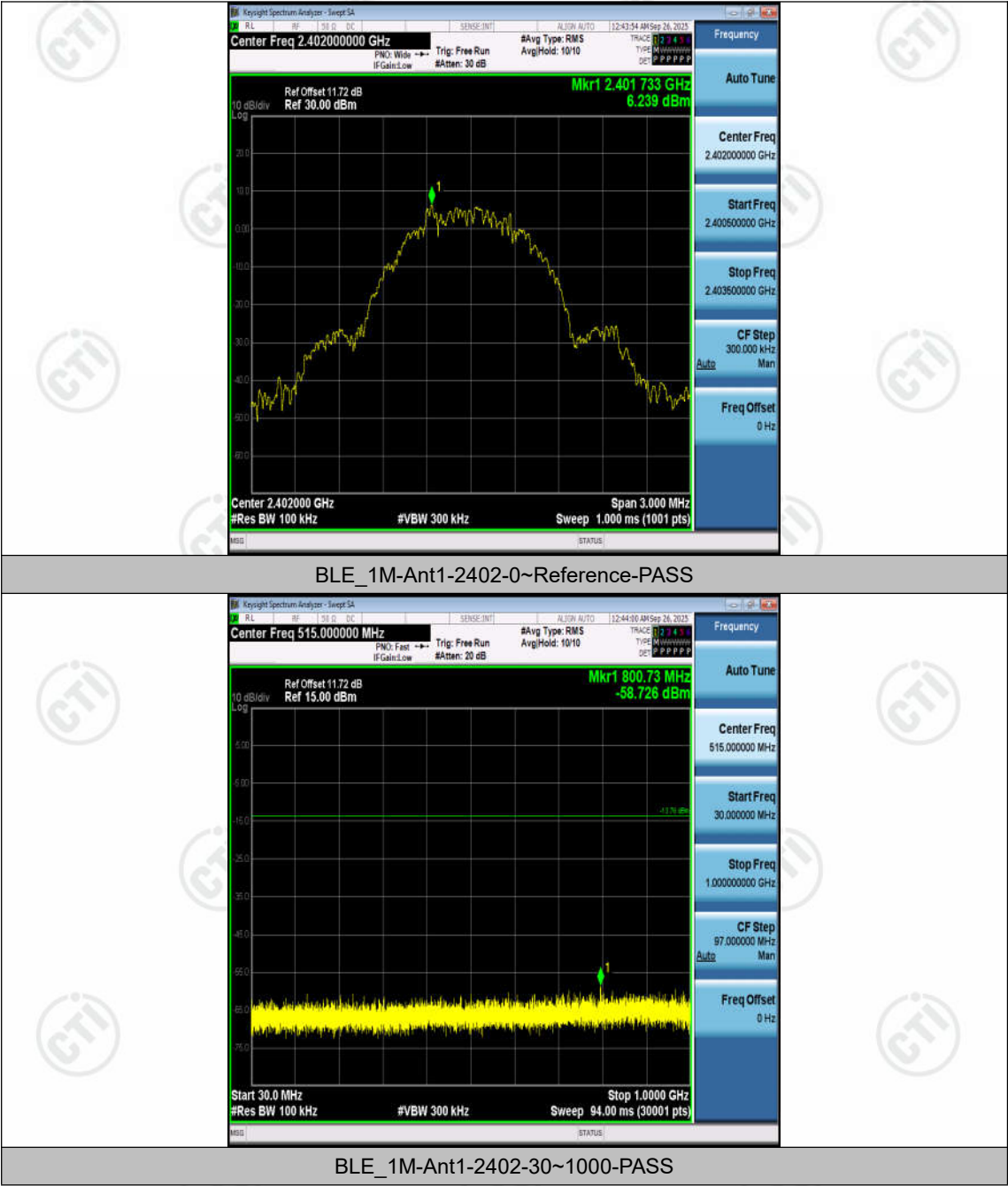


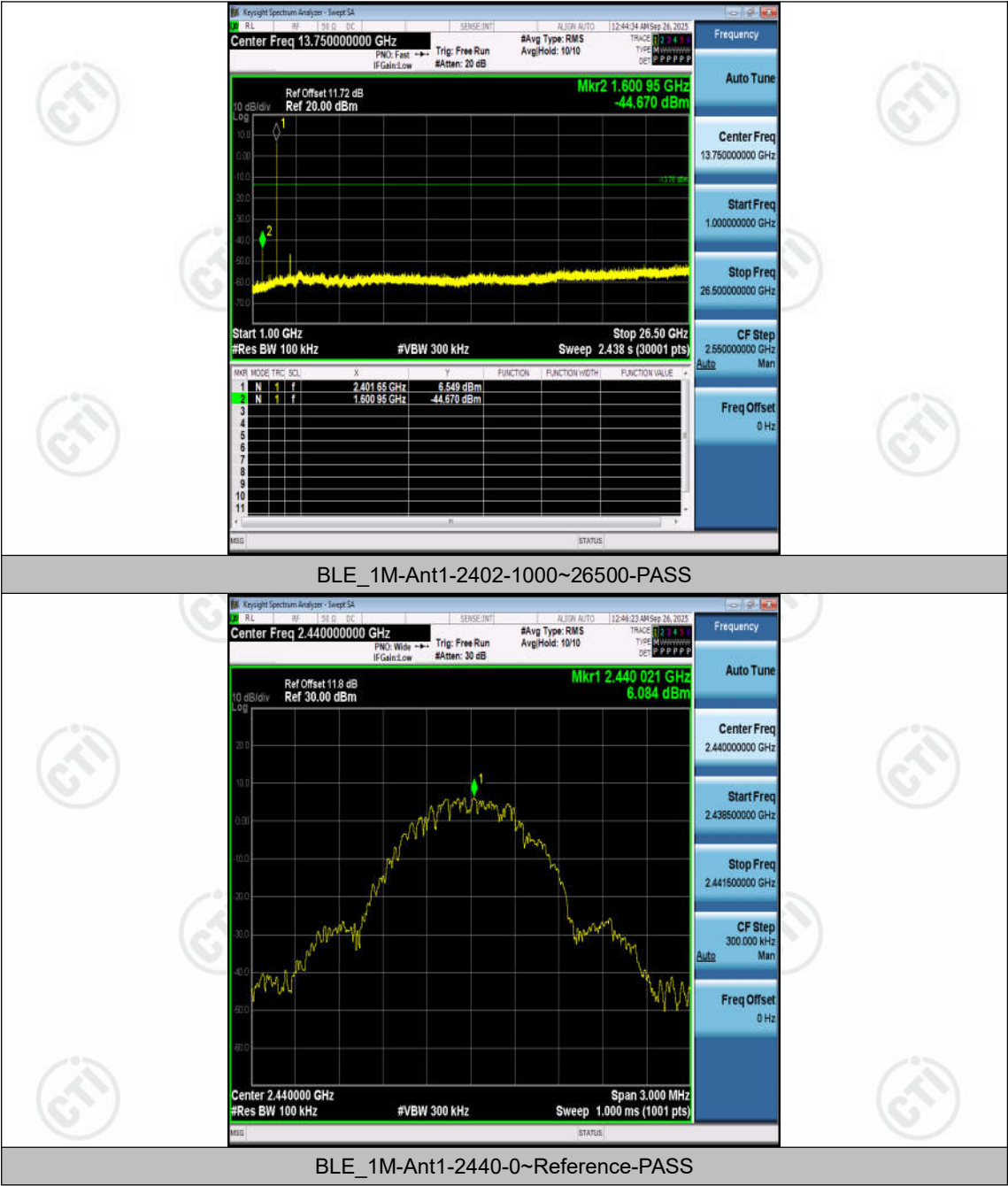
Appendix G: Conducted Spurious Emission

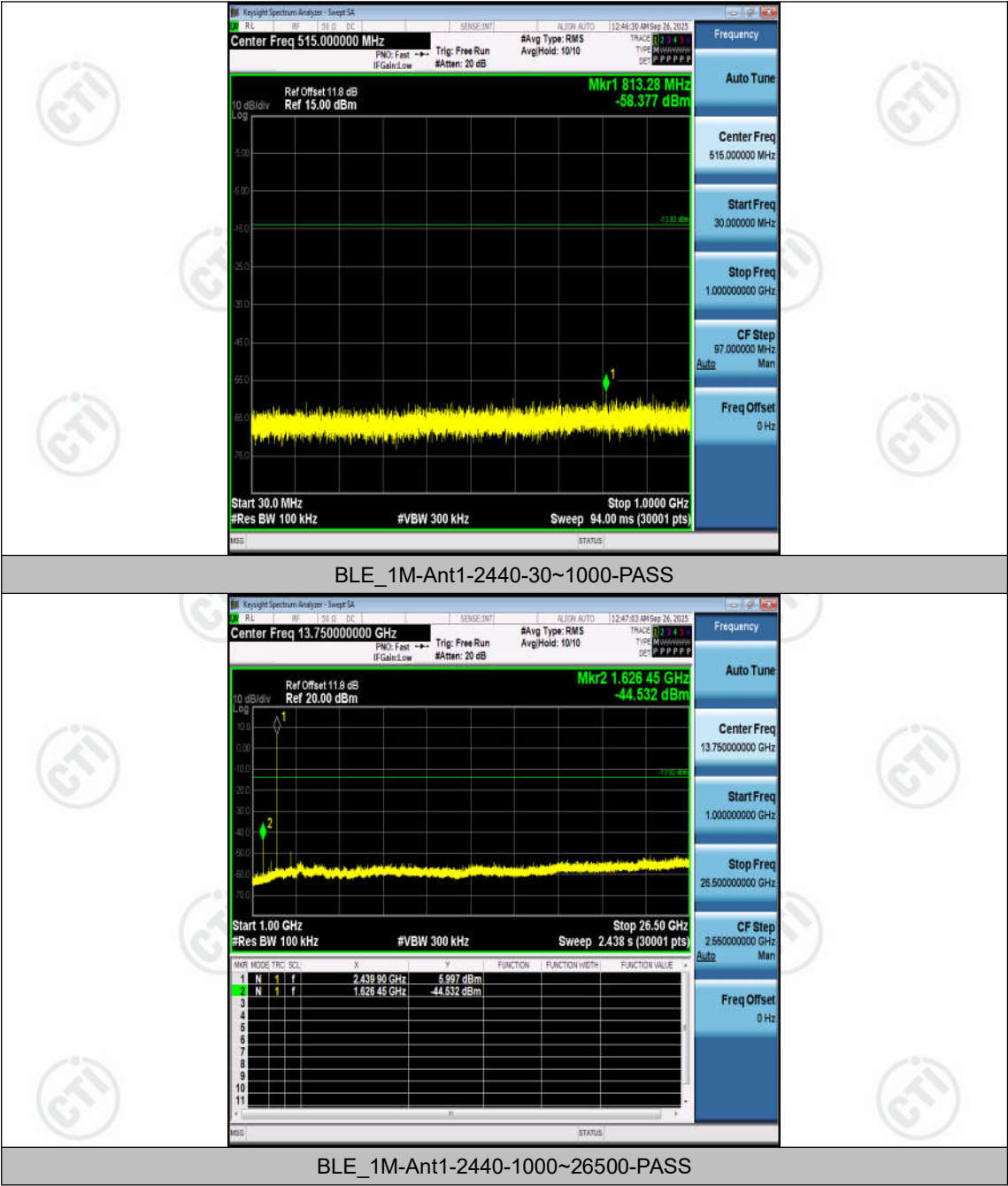
Test Result

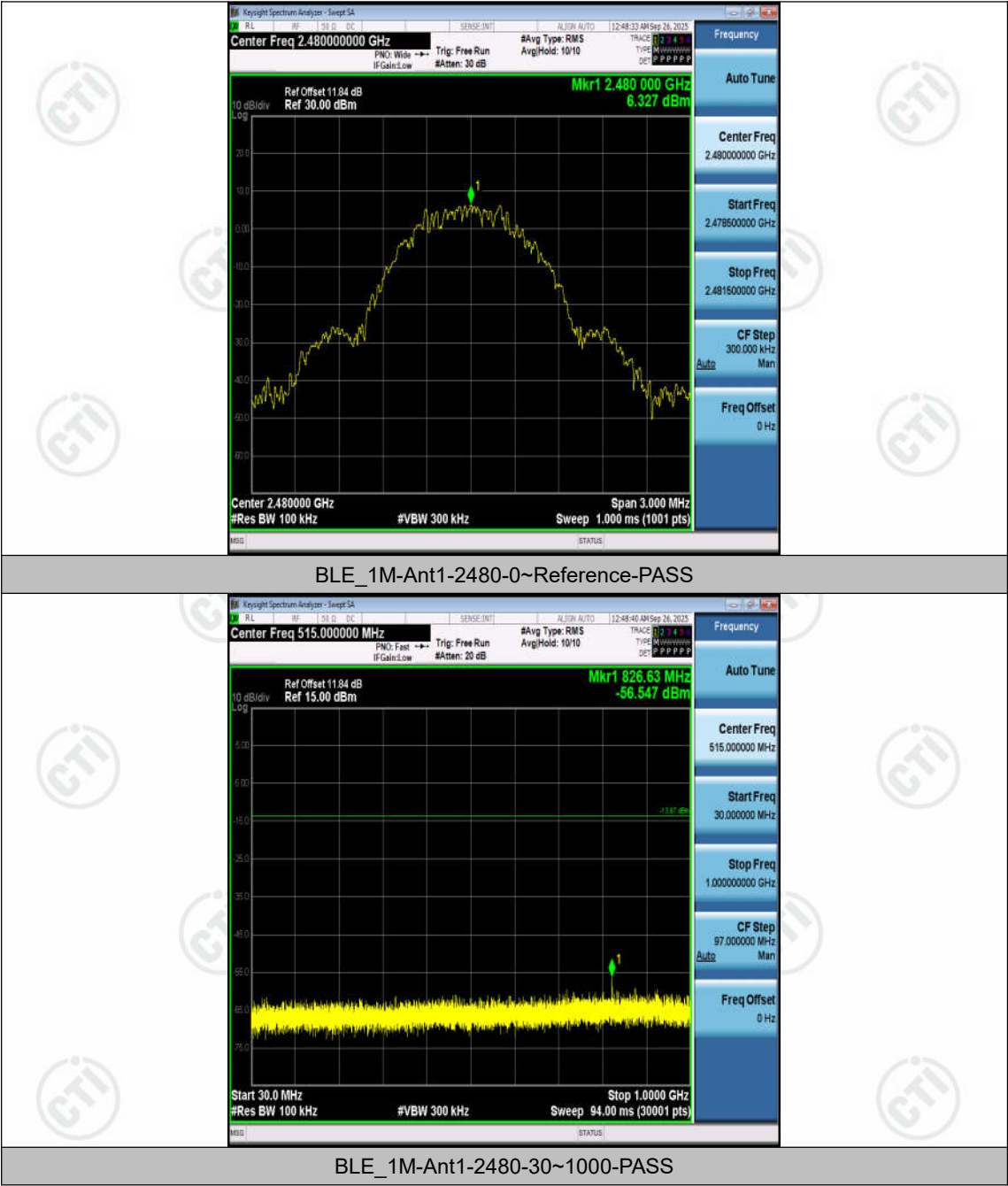
TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	6.24	6.24	---	PASS
BLE_1M	Ant1	2402	30~1000	6.24	-58.73	≤-13.76	PASS
BLE_1M	Ant1	2402	1000~26500	6.24	-44.67	≤-13.76	PASS
BLE_1M	Ant1	2440	0~Reference	6.08	6.08	---	PASS
BLE_1M	Ant1	2440	30~1000	6.08	-58.38	≤-13.92	PASS
BLE_1M	Ant1	2440	1000~26500	6.08	-44.53	≤-13.92	PASS
BLE_1M	Ant1	2480	0~Reference	6.33	6.33	---	PASS
BLE_1M	Ant1	2480	30~1000	6.33	-56.55	≤-13.67	PASS
BLE_1M	Ant1	2480	1000~26500	6.33	-43.61	≤-13.67	PASS

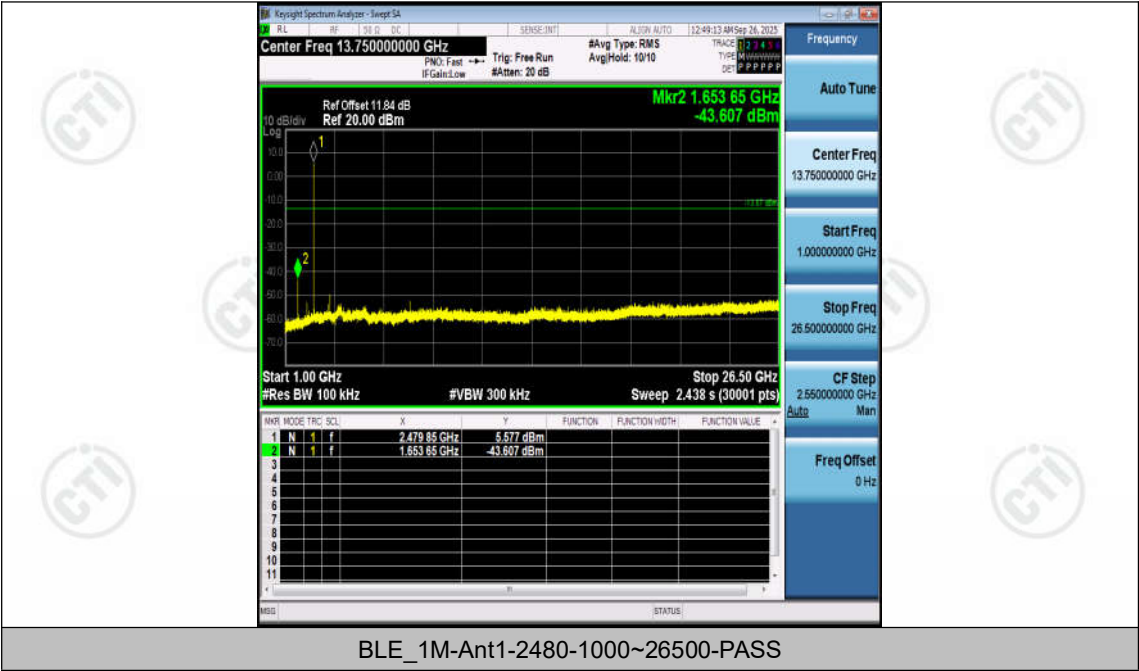
Test Graphs











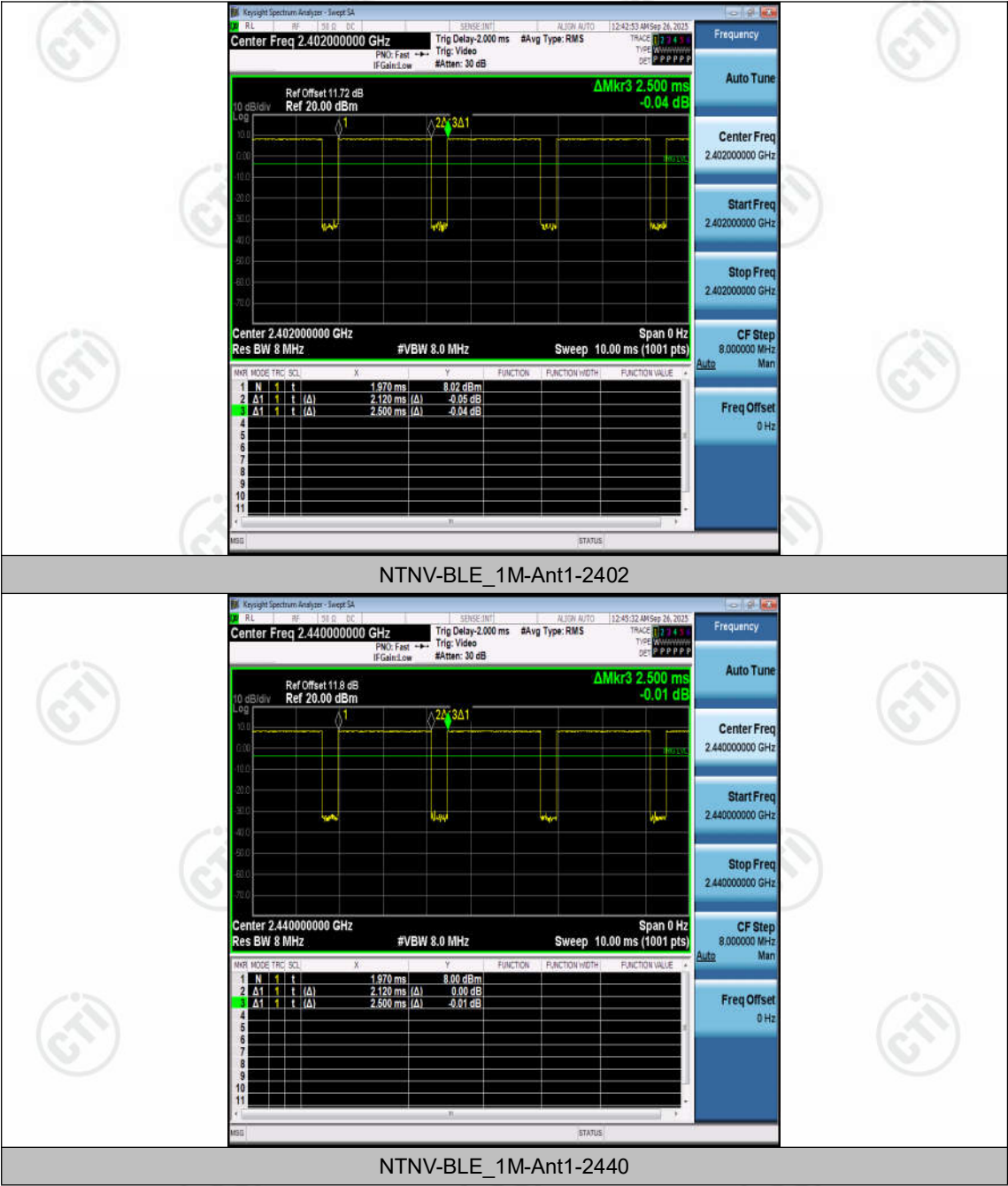
BLE_1M-Ant1-2480-1000~26500-PASS

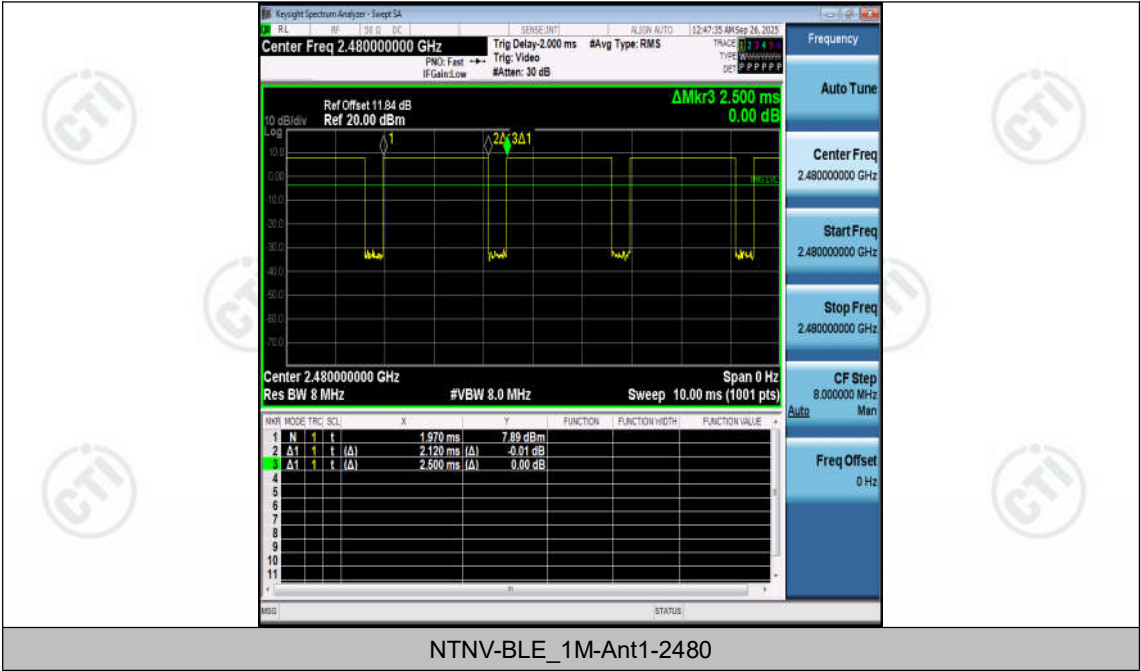
Appendix H: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	2.12	2.50	84.80	0.72
BLE_1M	Ant1	2440	2.12	2.50	84.80	0.72
BLE_1M	Ant1	2480	2.12	2.50	84.80	0.72

Test Graphs





*** End of Report ***