

Appendix: Bluetooth LE

Contents

Appendix A: DTS Bandwidth..... 3

 Test Result.....3

 Test Graphs.....4

Appendix B: Occupied Channel Bandwidth..... 6

 Test Result.....6

 Test Graphs.....7

Appendix C: Maximum conducted output power..... 9

 Test Result Peak..... 9

 Test Graphs Peak.....10

Appendix D: Maximum power spectral density..... 12

 Test Result.....12

 Test Graphs.....13

Appendix E: Band edge measurements..... 16

 Test Result.....16

 Test Graphs.....17

Appendix F: Conducted Spurious Emission..... 18

 Test Result.....18

 Test Graphs.....19

Appendix G: Duty Cycle..... 24

 Test Result.....24

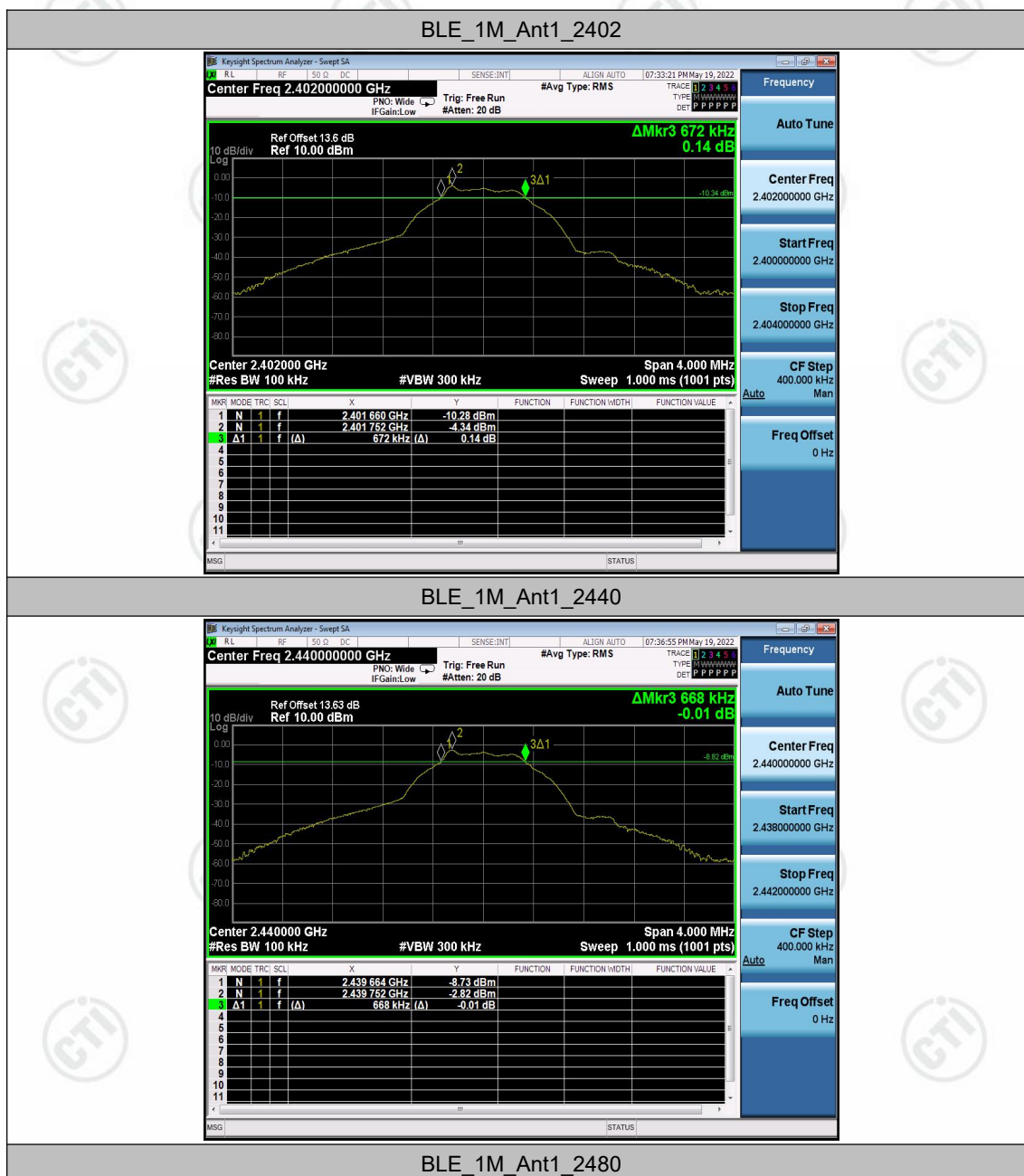
 Test Graphs.....25

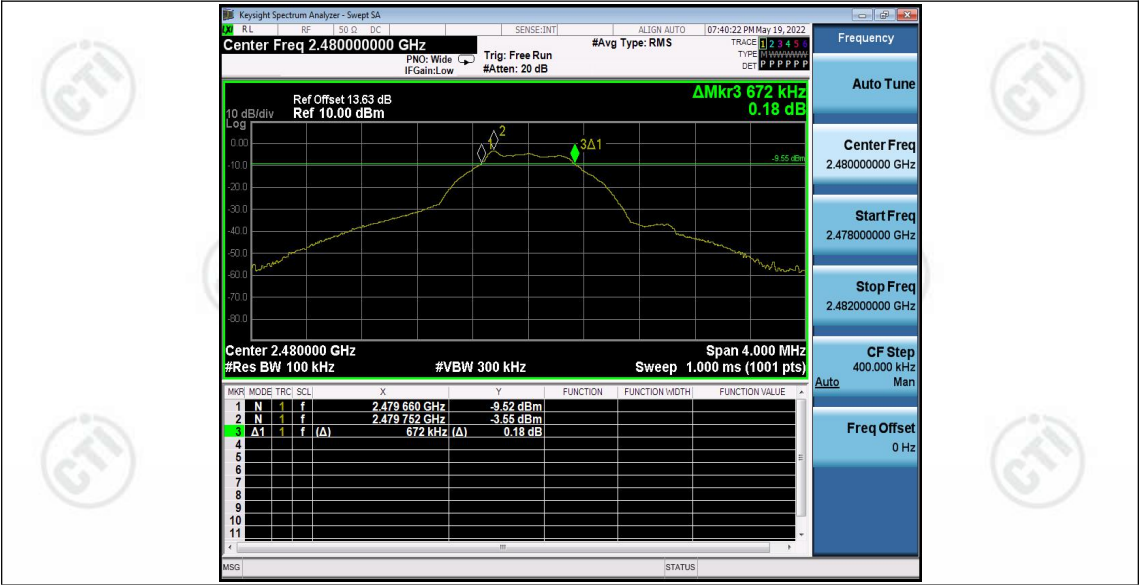
Appendix A: DTS Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.672	2401.660	2402.332	0.5	PASS
		2440	0.668	2439.664	2440.332	0.5	PASS
		2480	0.672	2479.660	2480.332	0.5	PASS

Test Graphs



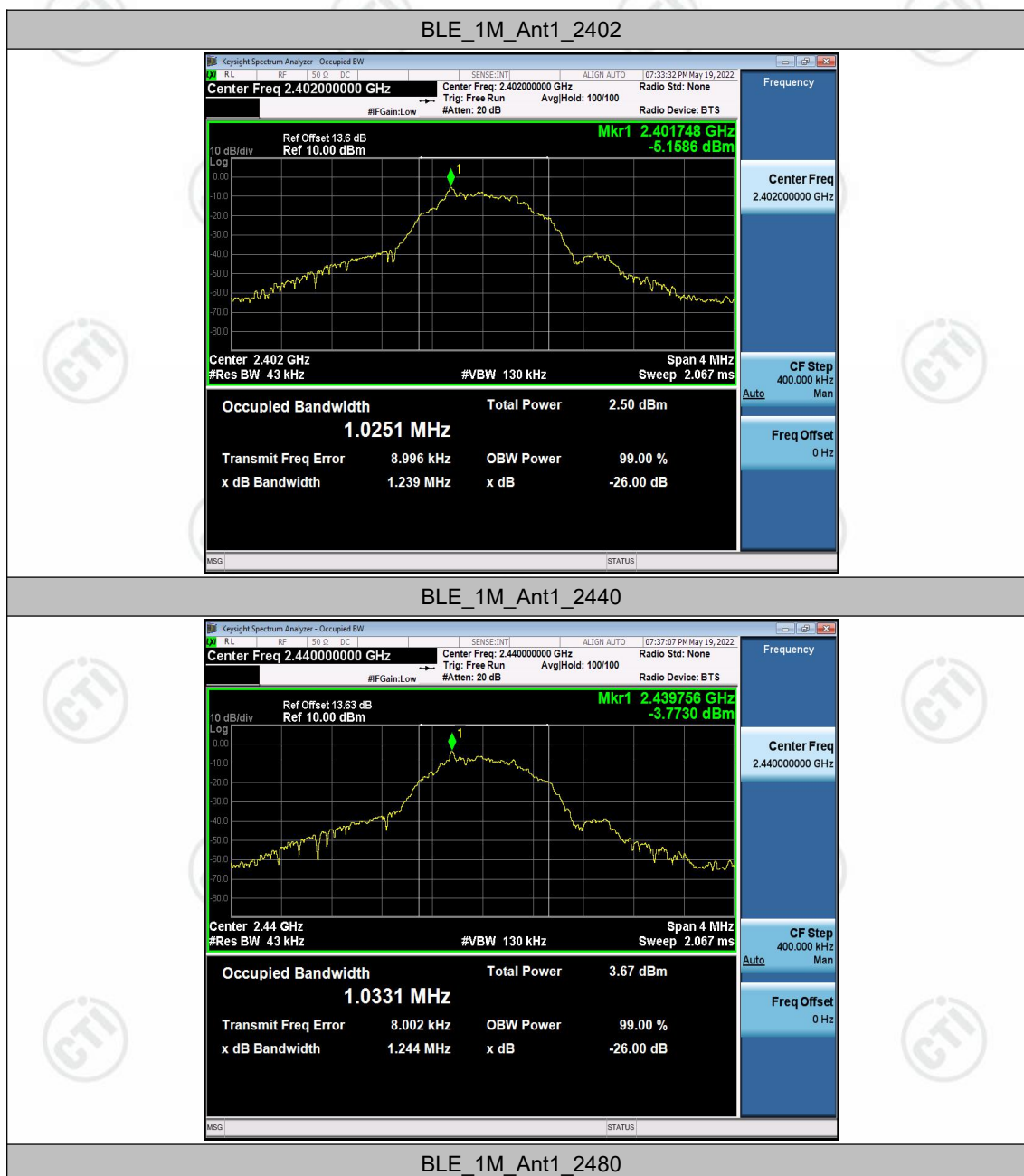


Appendix B: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0251	2401.496	2402.522	---	---
		2440	1.0331	2439.491	2440.525	---	---
		2480	1.0213	2479.497	2480.518	---	---

Test Graphs



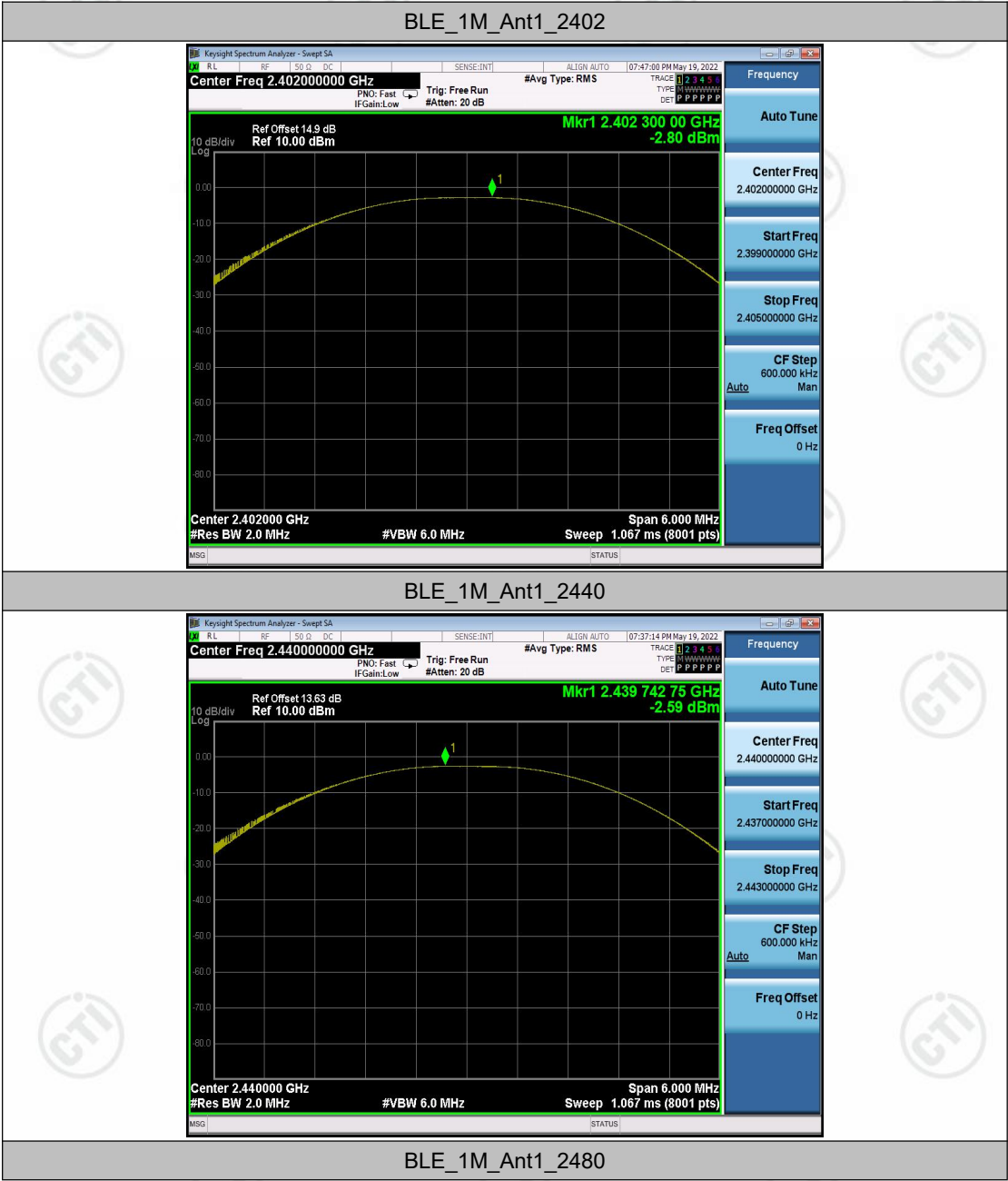


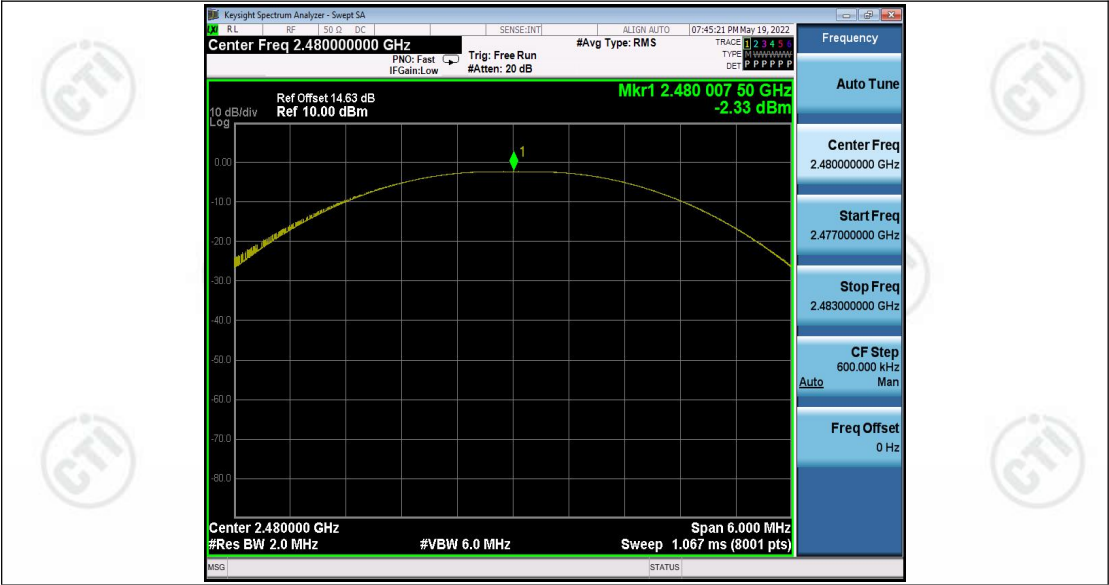
Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-2.80	≤30	PASS
		2440	-2.59	≤30	PASS
		2480	-2.33	≤30	PASS

Test Graphs Peak



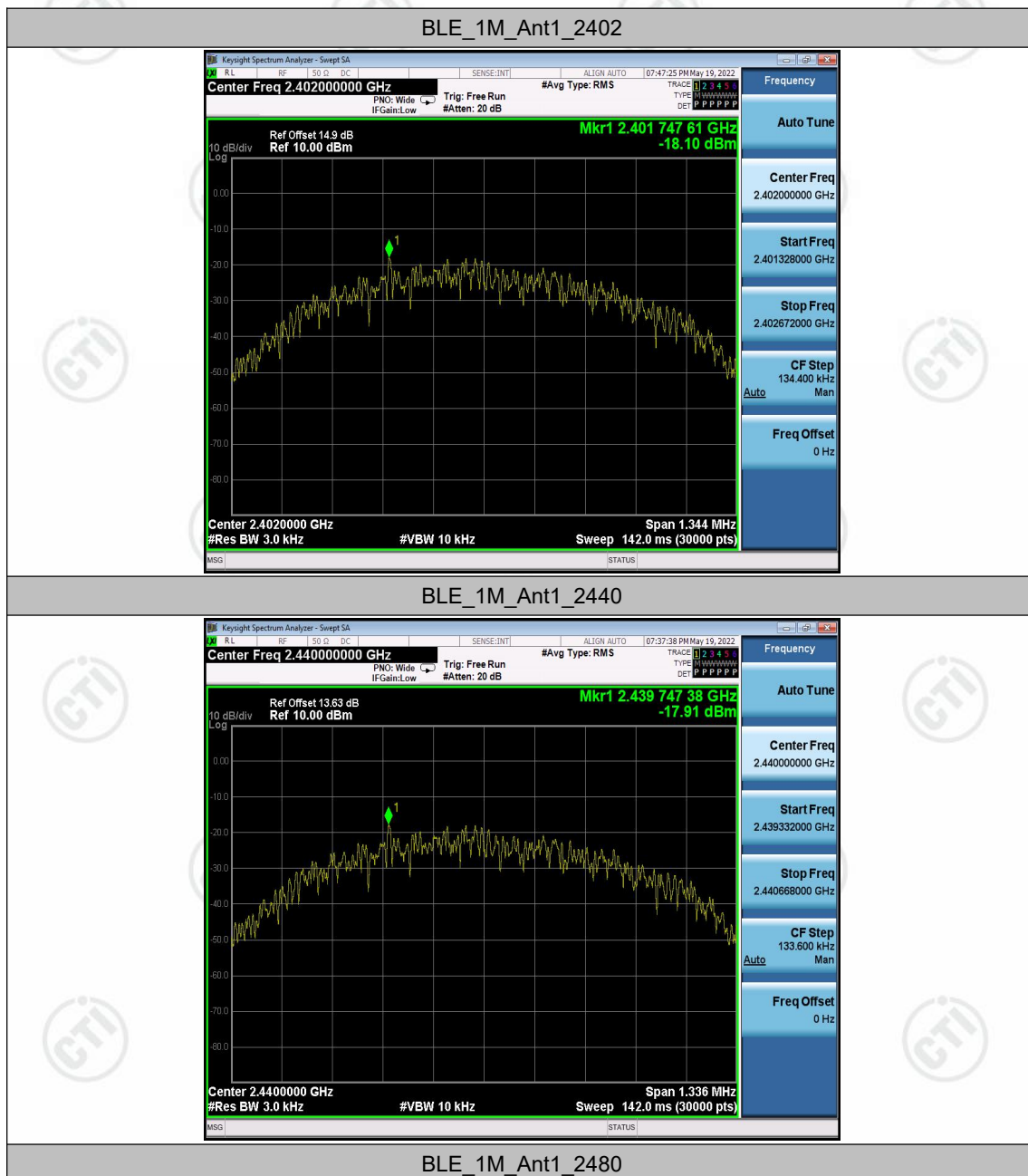


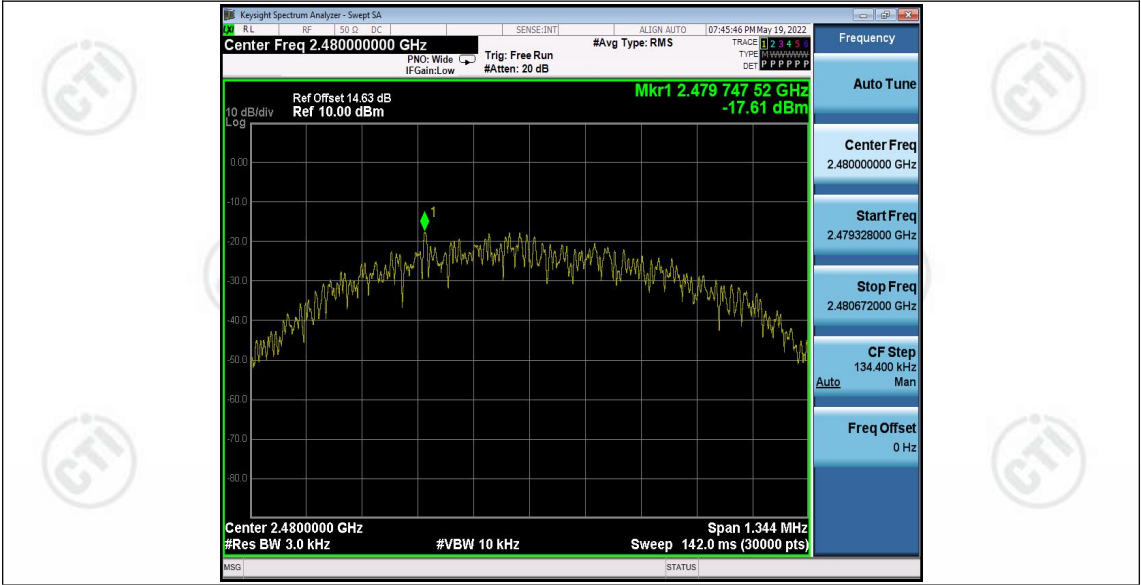
Appendix D: Maximum power spectral density

Test Result

Test Mode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-18.1	≤8.00	PASS
		2440	-17.91	≤8.00	PASS
		2480	-17.61	≤8.00	PASS

Test Graphs



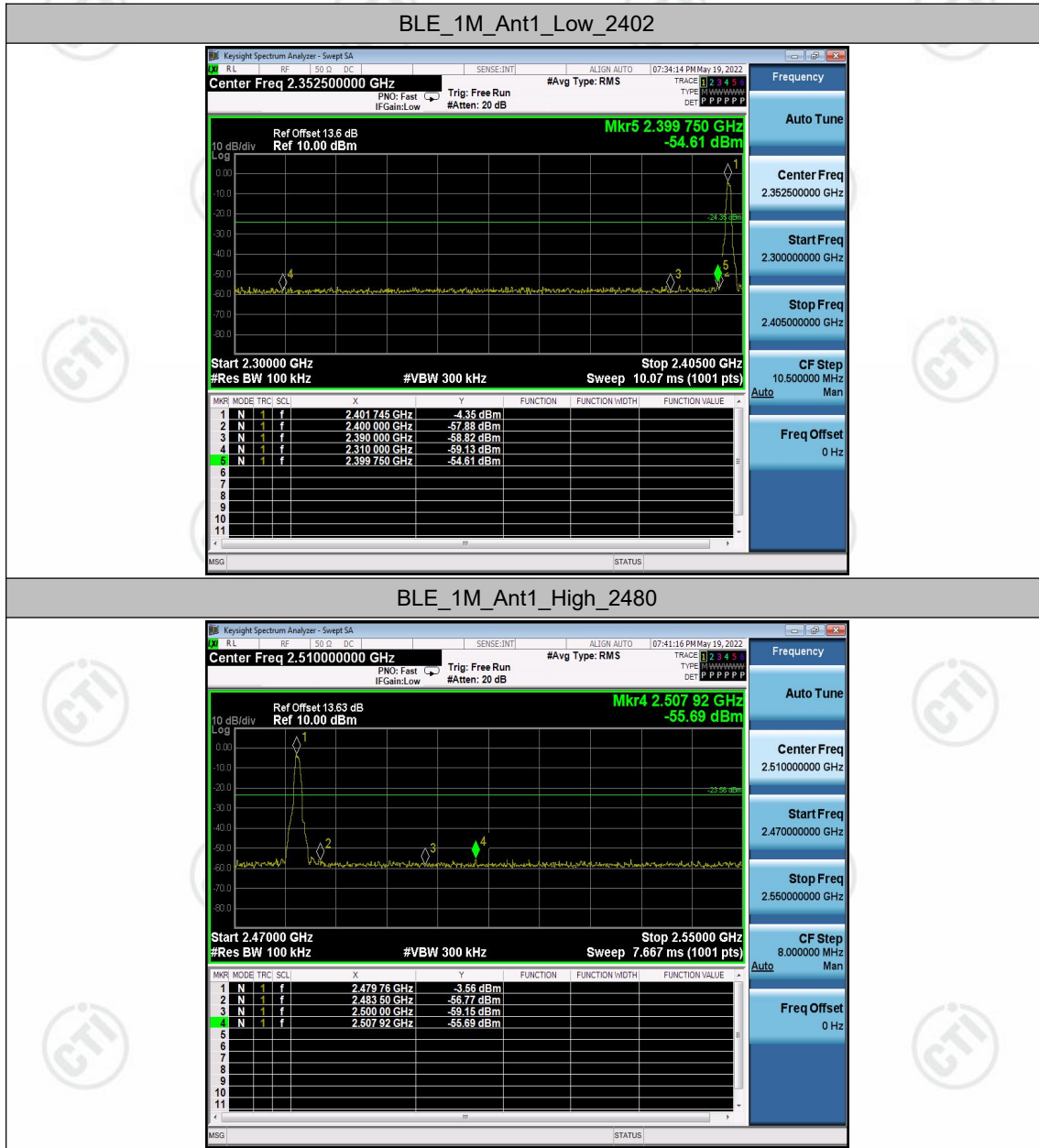


Appendix E: Band edge measurements

Test Result

Test Mode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-4.35	-54.61	≤-24.35	PASS
		High	2480	-3.56	-55.69	≤-23.56	PASS

Test Graphs

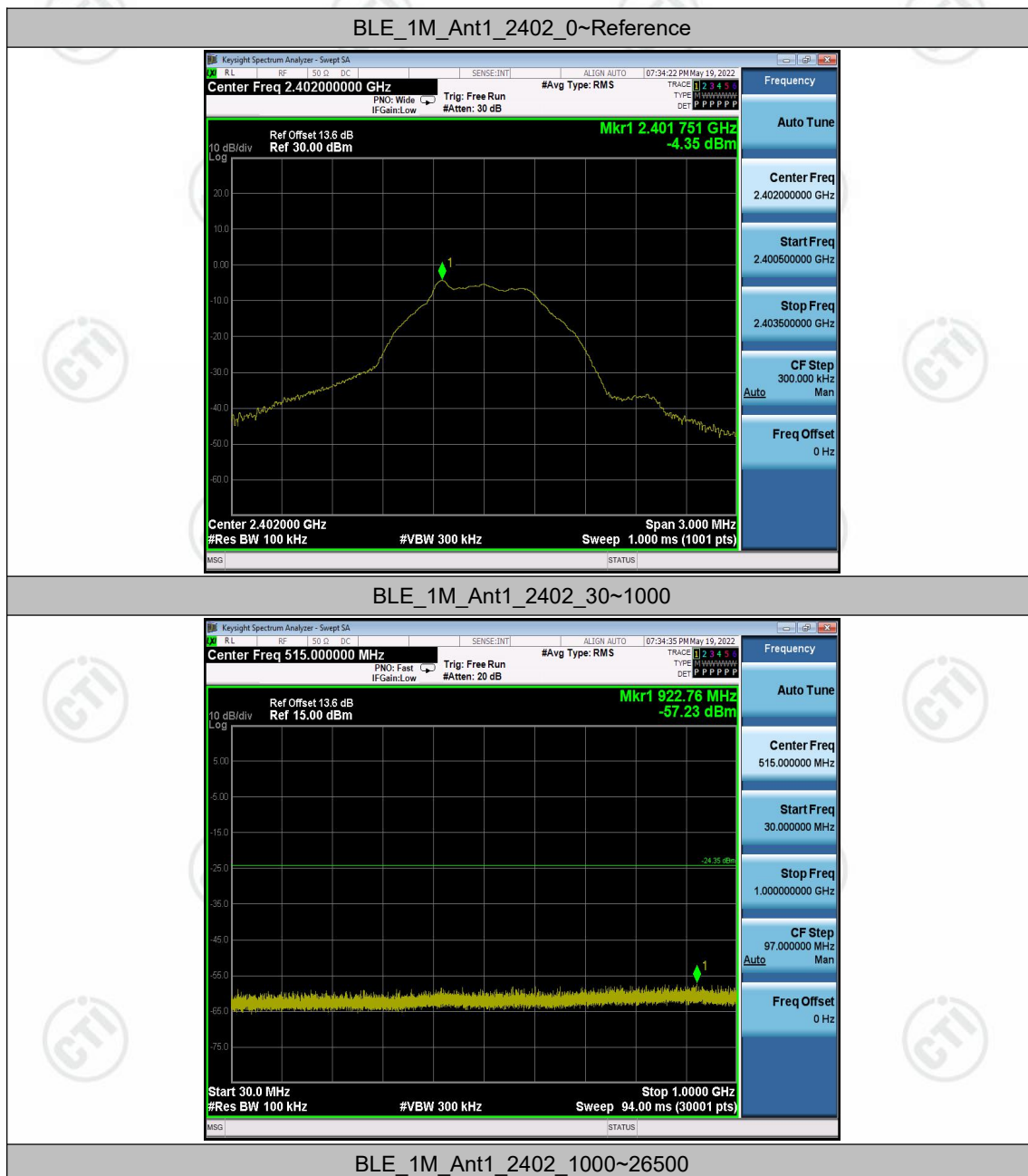


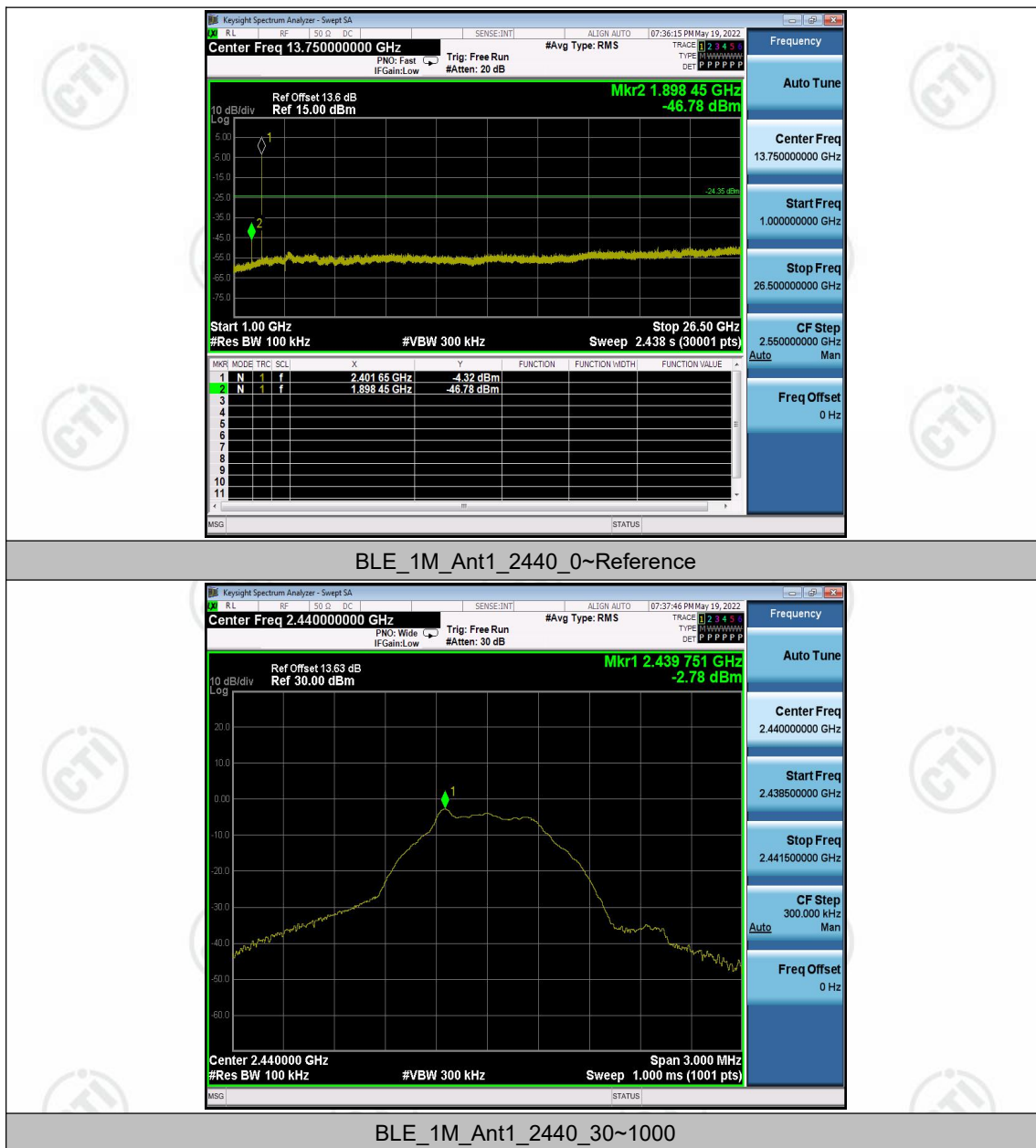
Appendix F: Conducted Spurious Emission

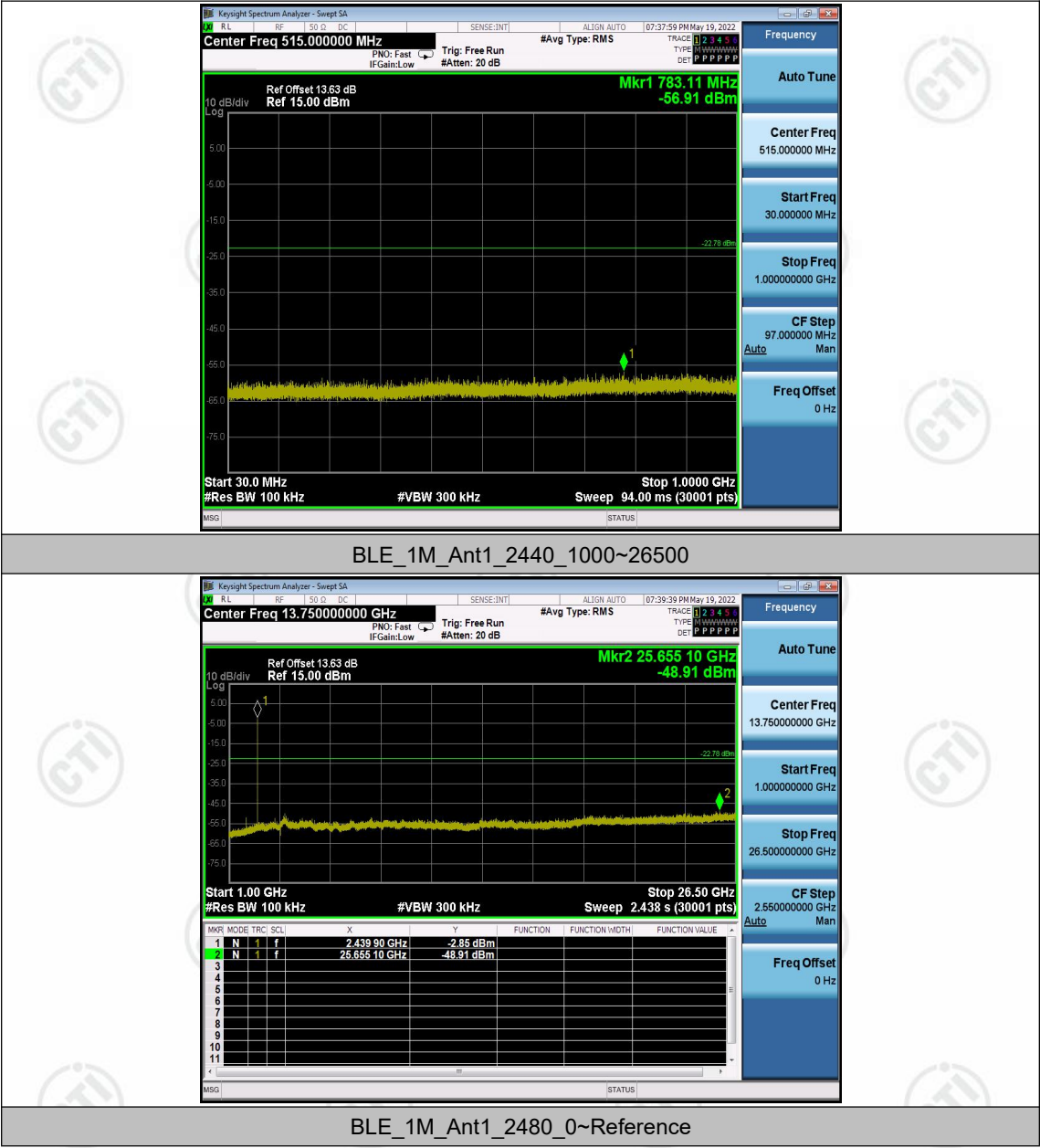
Test Result

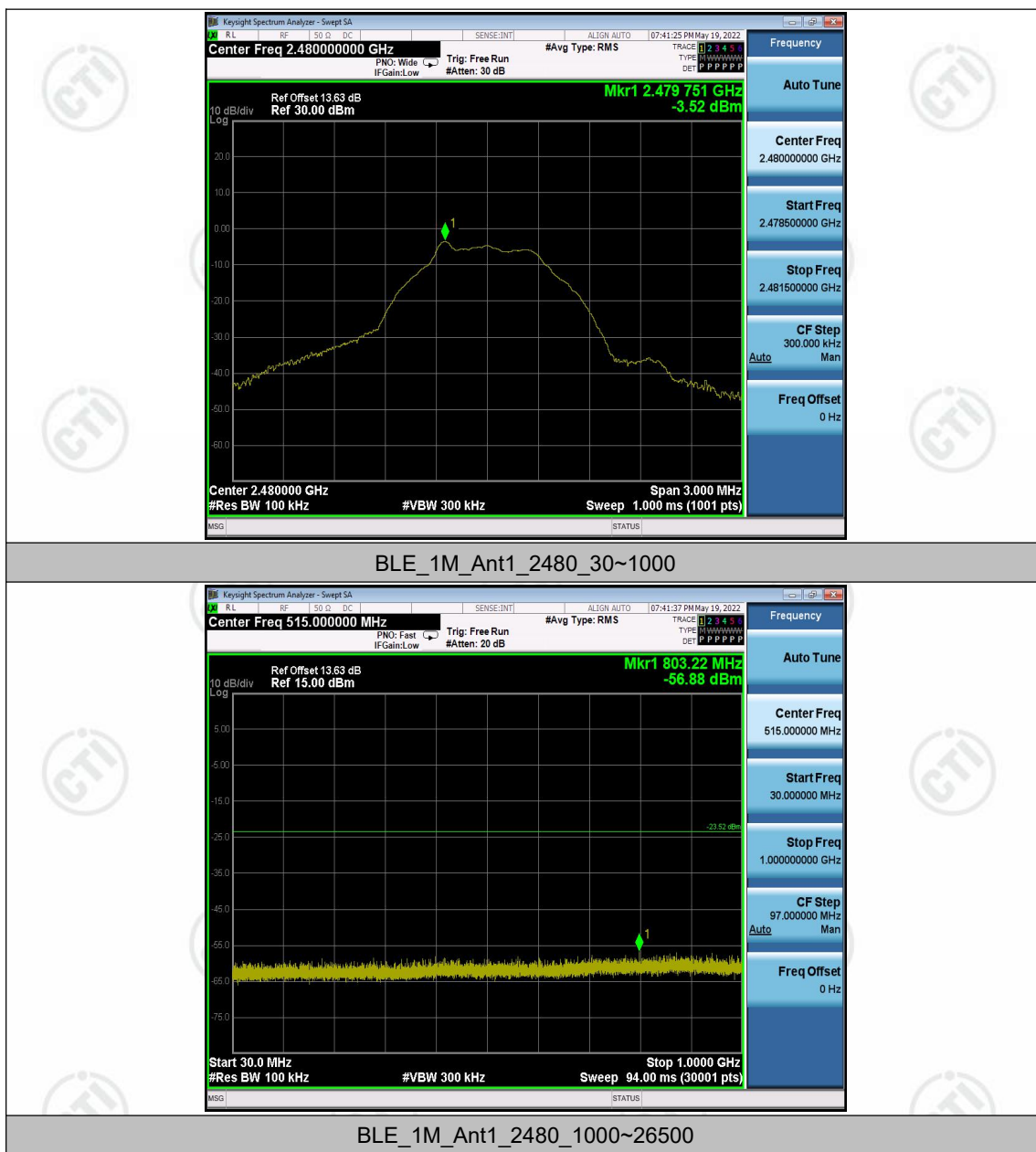
Test Mode	Antenna	Frequency [MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-4.35	-4.35	---	PASS
			30~1000	---	-57.23	≤-24.35	PASS
			1000~26500	---	-46.78	≤-24.35	PASS
		2440	Reference	-2.78	-2.78	---	PASS
			30~1000	---	-56.91	≤-22.78	PASS
			1000~26500	---	-48.91	≤-22.78	PASS
		2480	Reference	-3.52	-3.52	---	PASS
			30~1000	---	-56.88	≤-23.52	PASS
			1000~26500	---	-49	≤-23.52	PASS

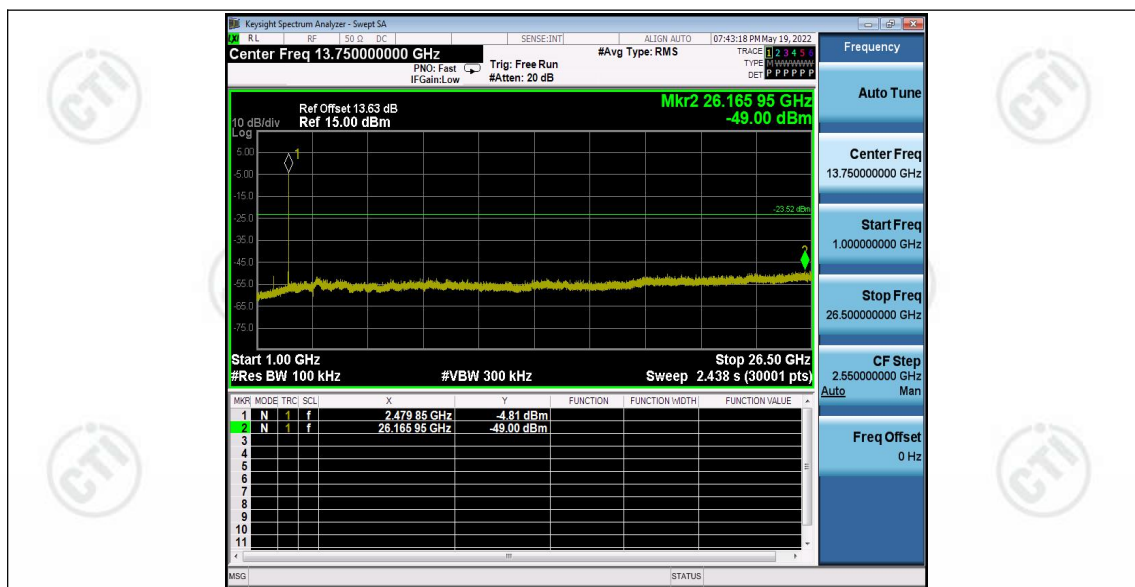
Test Graphs









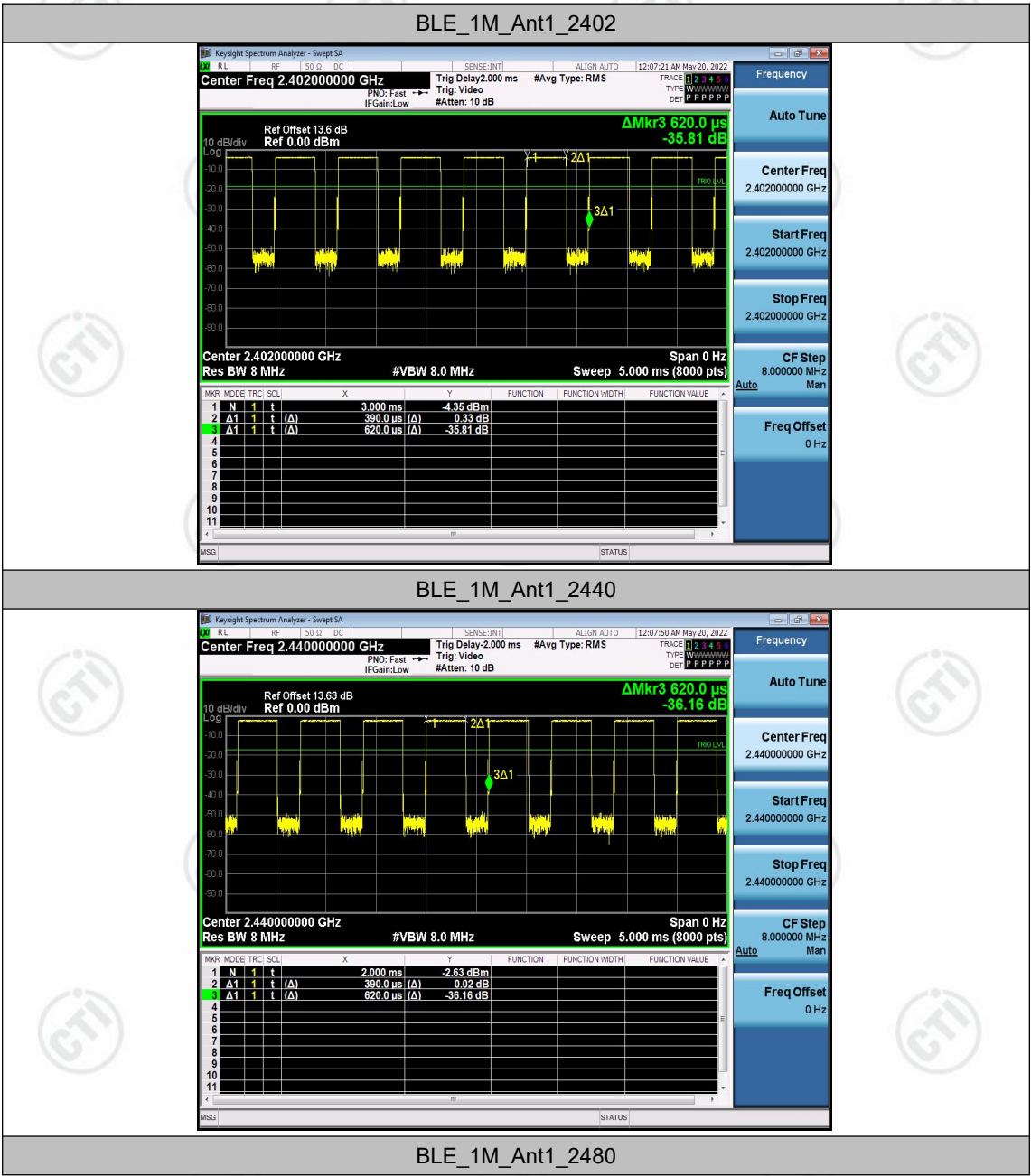


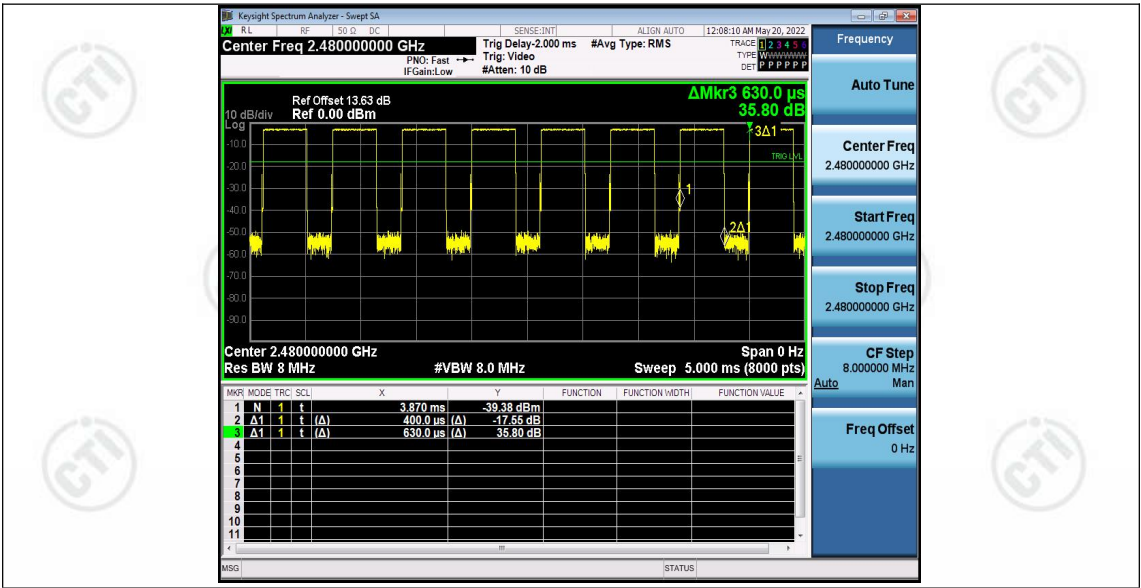
Appendix G: Duty Cycle

Test Result

Test Mode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	0.39	0.62	62.90	2.01
		2440	0.39	0.62	62.90	2.01
		2480	0.40	0.63	63.49	1.97

Test Graphs





END OF REPORT