

FCC Appendix RF Test Data for BLE

FCC ID : 2A8LG-EY5A131

Company : COOLING Spolka z o.o.

EUT : Thock V2 wireless

Model Number : EY5A131

Report No. : CTA25063000802

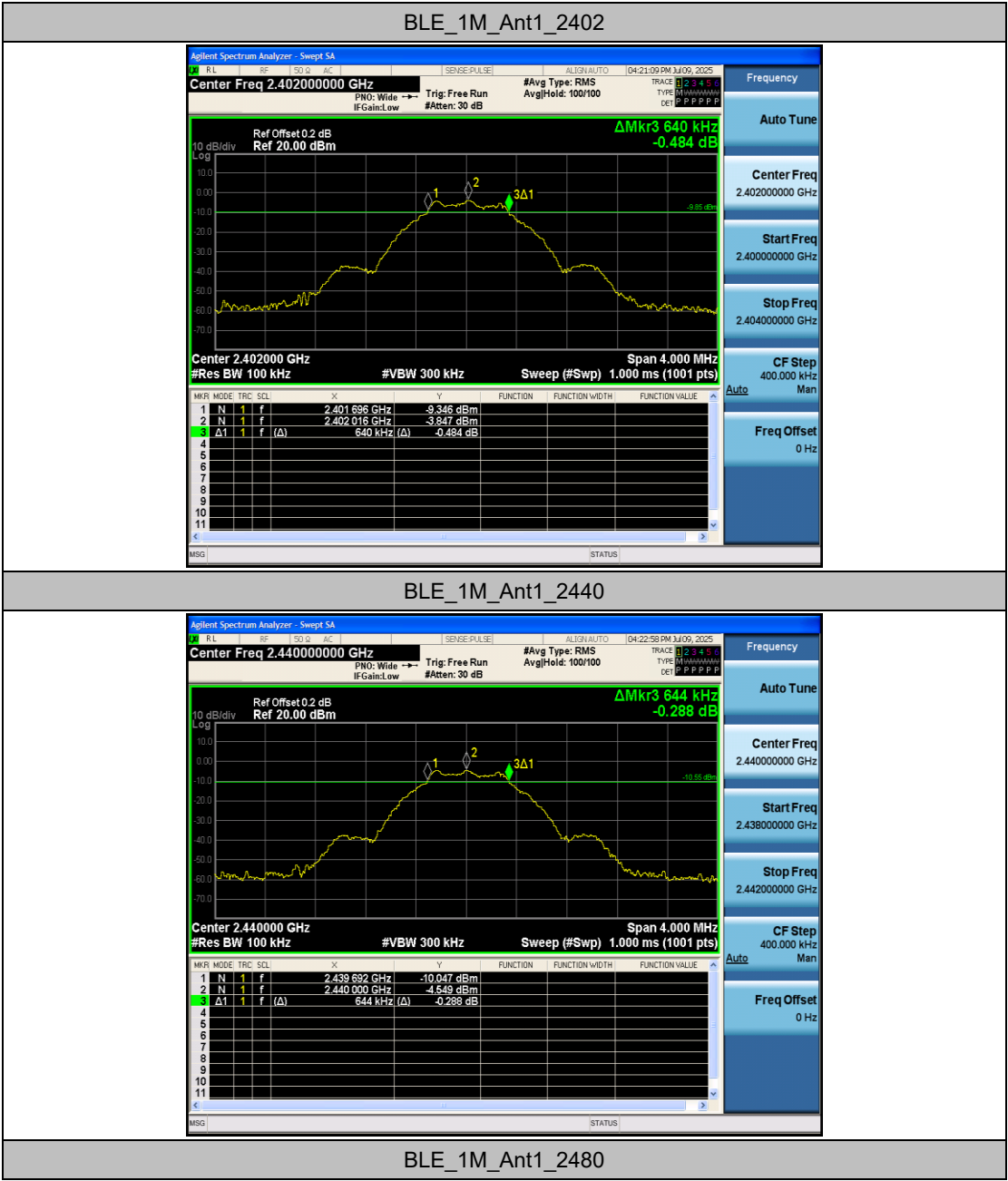
Reviewed By : Eric Wang

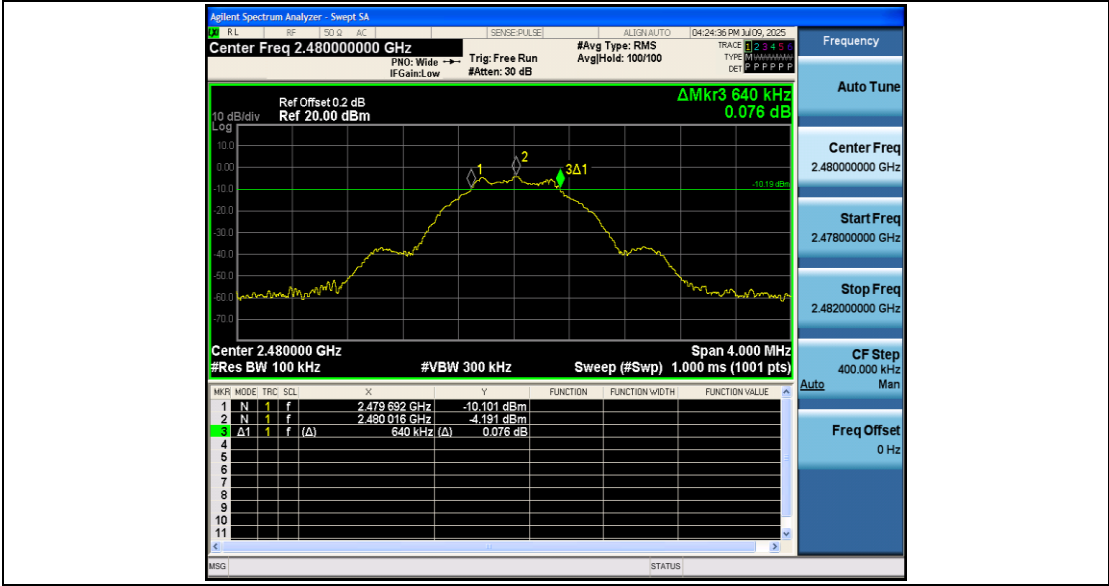
Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.640	2401.696	2402.336	0.5	PASS
		2440	0.644	2439.692	2440.336	0.5	PASS
		2480	0.640	2479.692	2480.332	0.5	PASS

Test Graphs



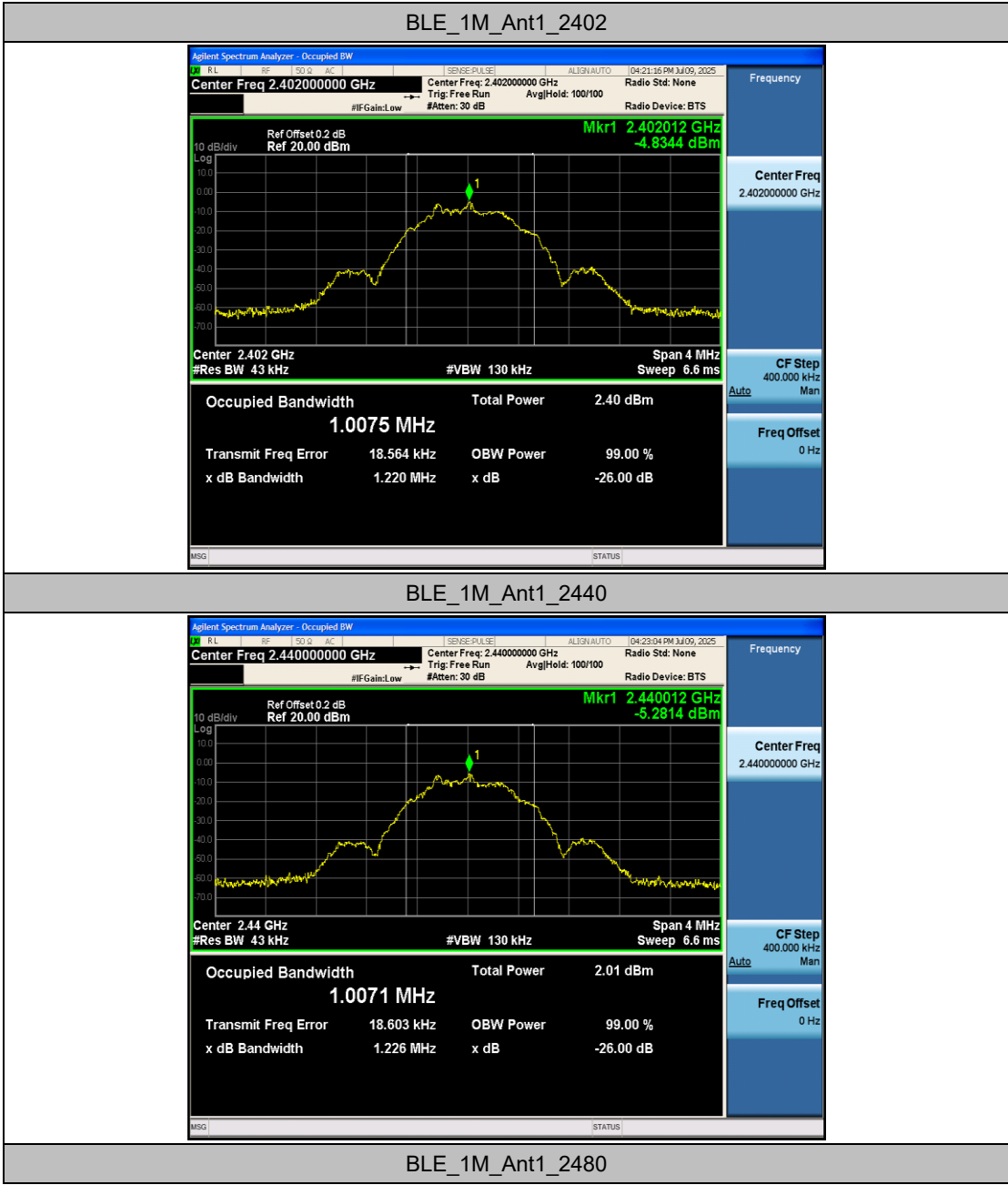


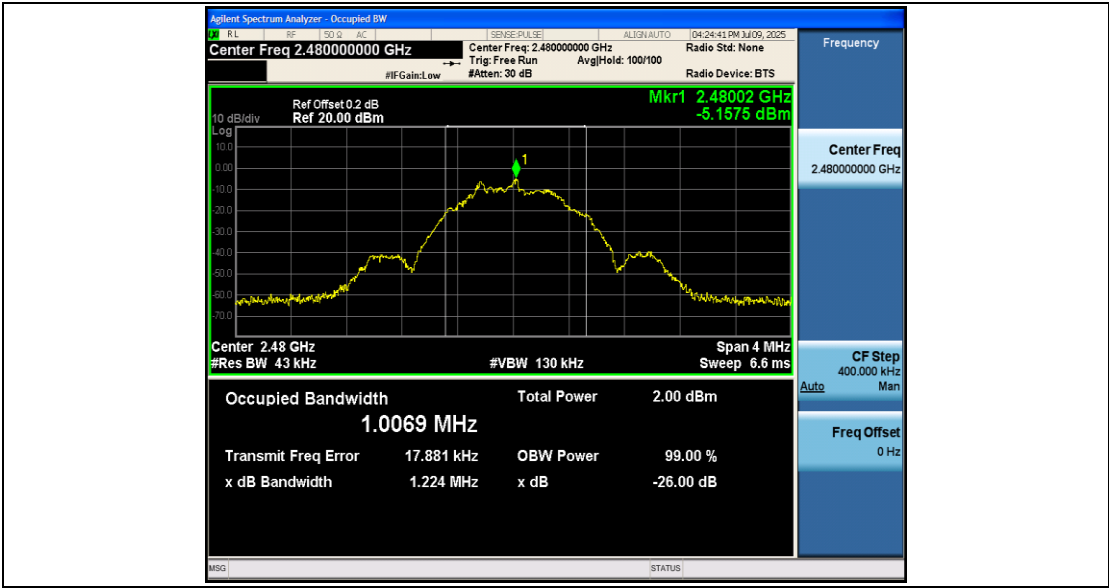
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0075	2401.5148	2402.5223	---	---
		2440	1.0071	2439.5151	2440.5222	---	---
		2480	1.0069	2479.5144	2480.5213	---	---

Test Graphs





Appendix C: Maximum conducted output power

Test Result Peak

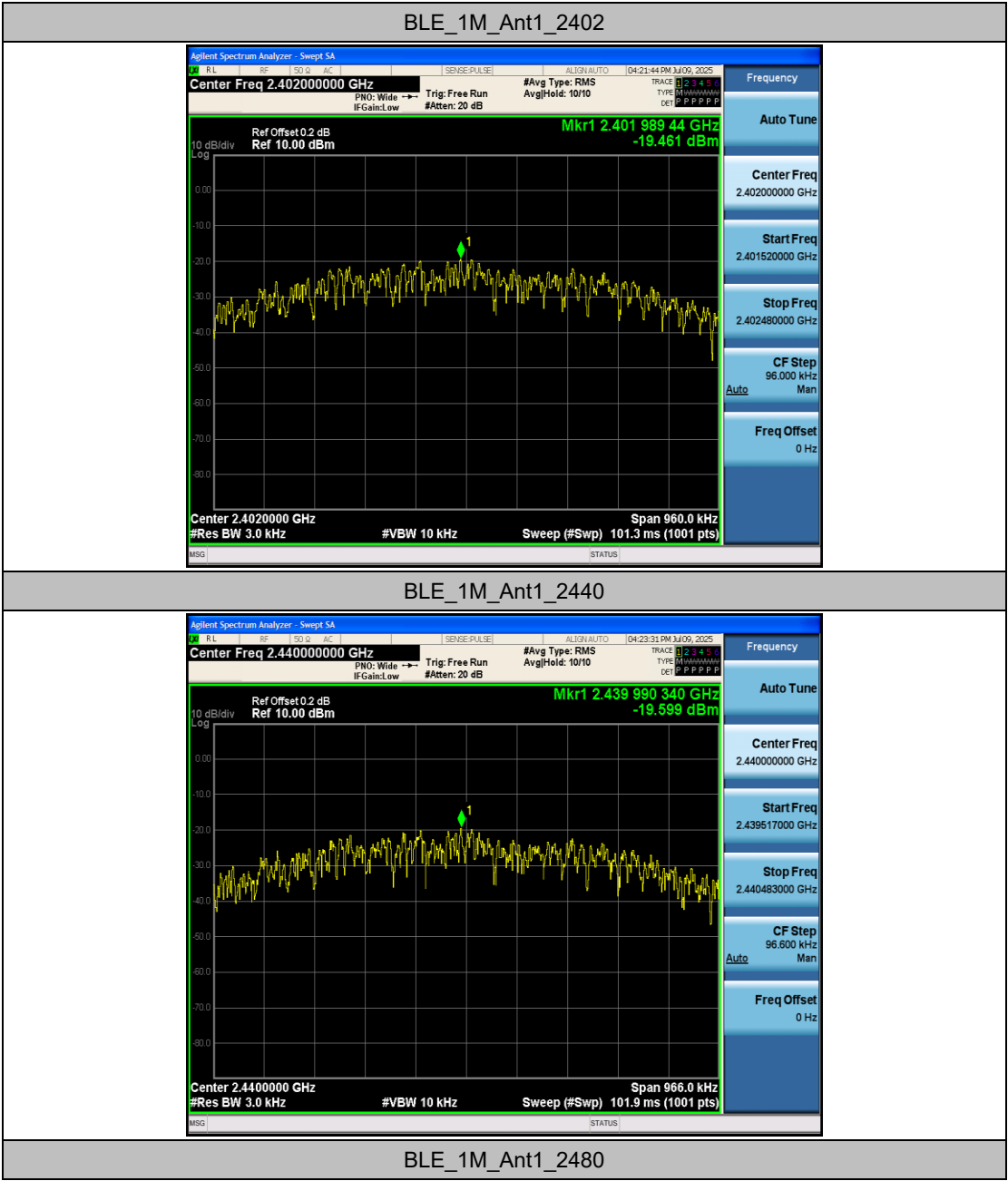
TestMode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-3.71	≤30	PASS
		2440	-4.03	≤30	PASS
		2480	-4.07	≤30	PASS

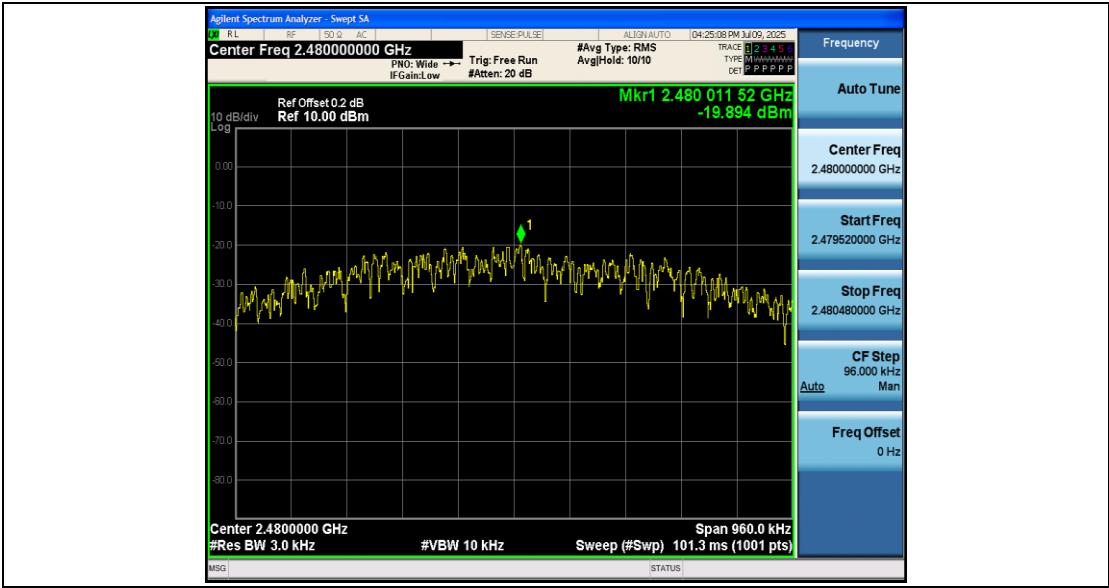
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-19.46	≤8.00	PASS
		2440	-19.60	≤8.00	PASS
		2480	-19.89	≤8.00	PASS

Test Graphs





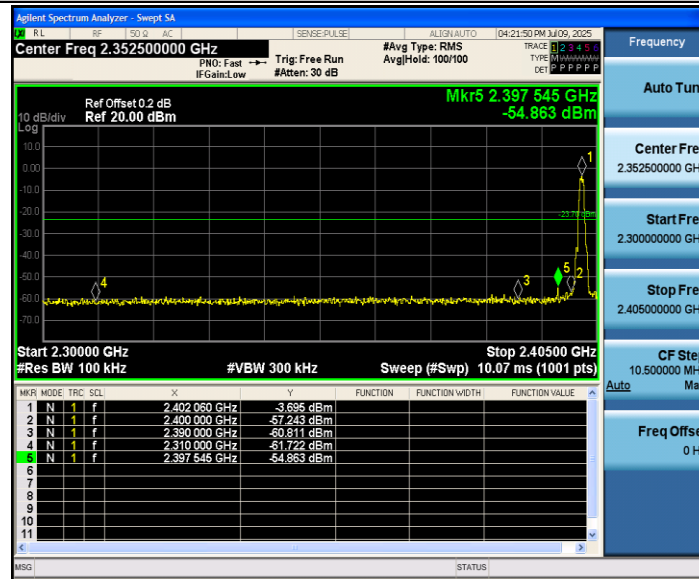
Appendix E: Band edge measurements

Test Result

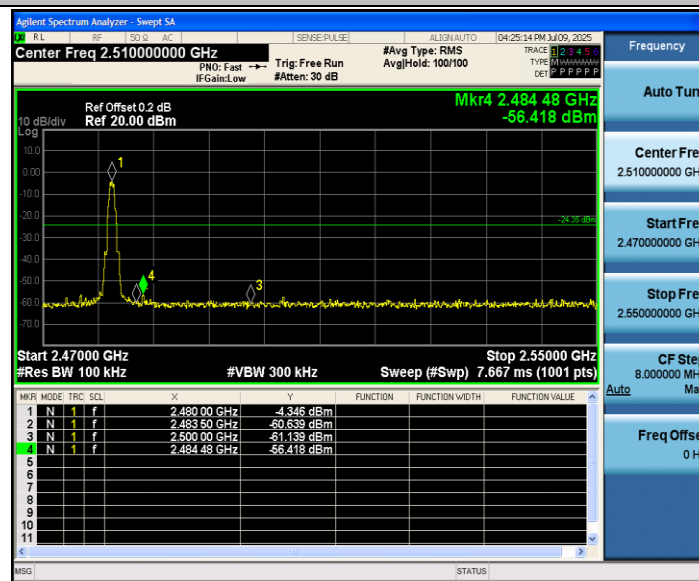
TestMode	Antenna	Channel	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-3.70	-54.86	≤-23.7	PASS
		High	2480	-4.35	-56.42	≤-24.35	PASS

Test Graphs

BLE_1M_Ant1_Low_2402



BLE_1M_Ant1_High_2480

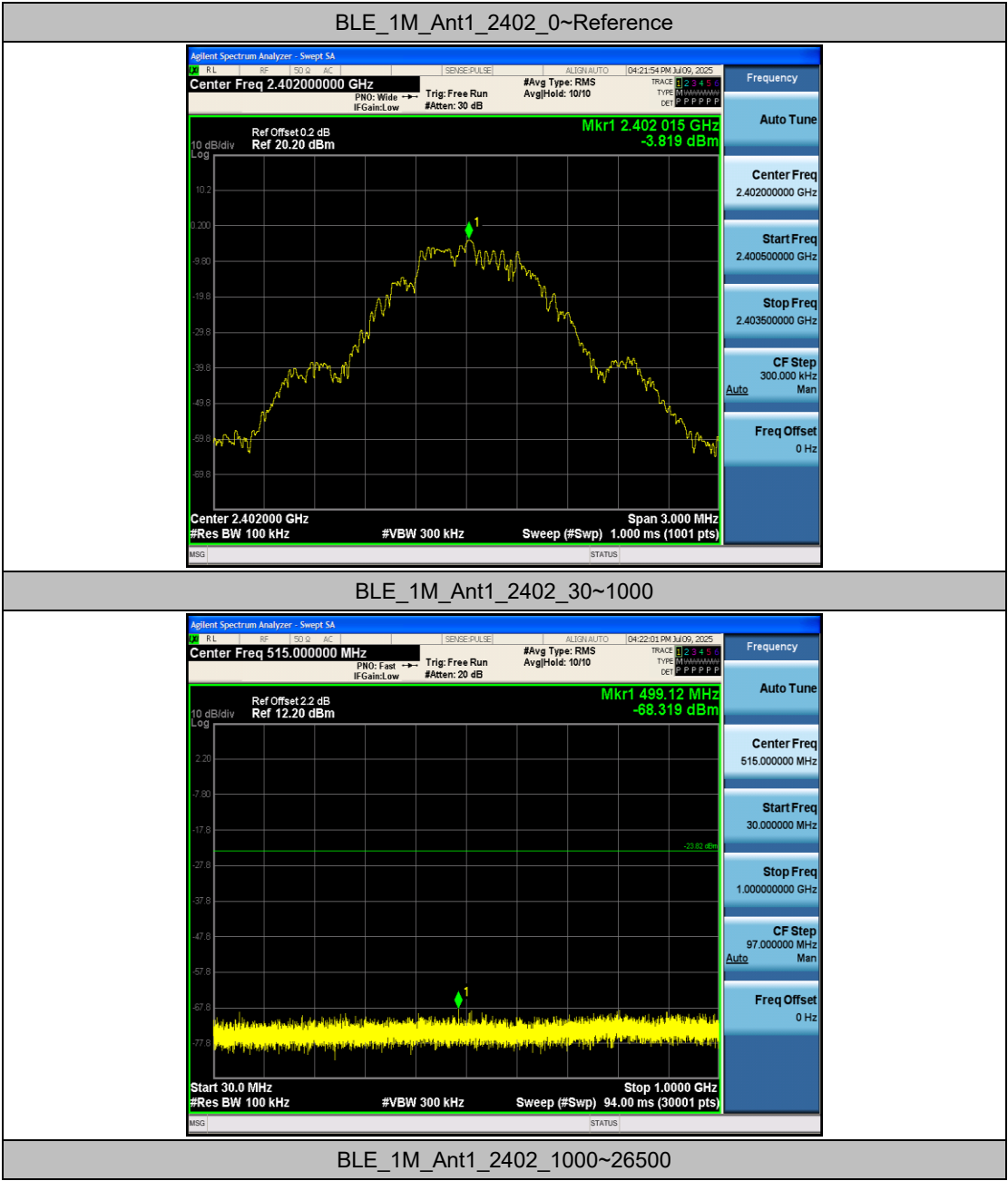


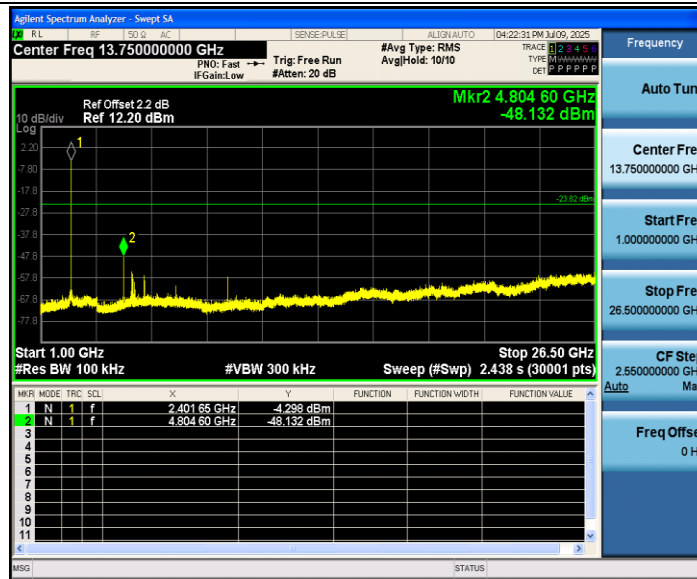
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-3.82	-3.82	---	PASS
			30~1000	-3.82	-68.32	≤-23.82	PASS
			1000~26500	-3.82	-48.13	≤-23.82	PASS
		2440	Reference	-5.15	-5.15	---	PASS
			30~1000	-5.15	-67.92	≤-25.15	PASS
			1000~26500	-5.15	-47.19	≤-25.15	PASS
		2480	Reference	-5.47	-5.47	---	PASS
			30~1000	-5.47	-68.51	≤-25.47	PASS
			1000~26500	-5.47	-48.18	≤-25.47	PASS

Test Graphs

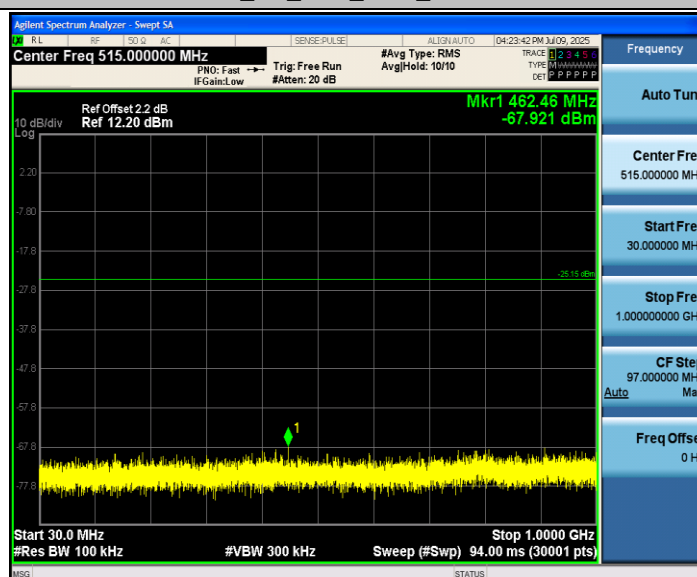




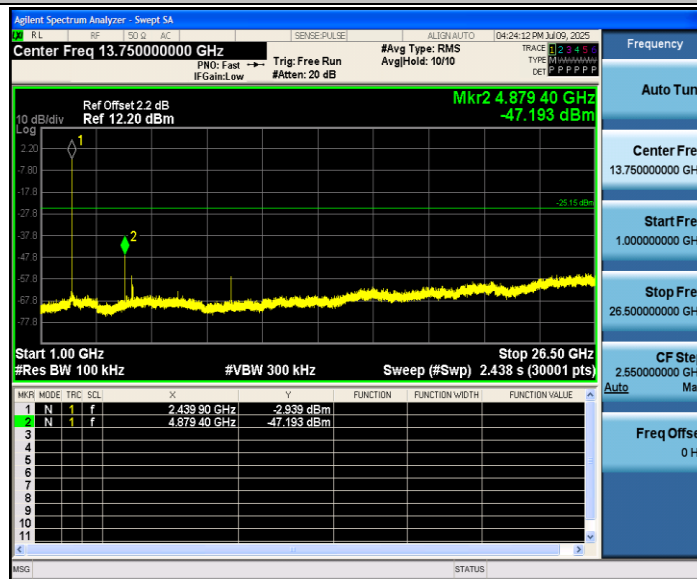
BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



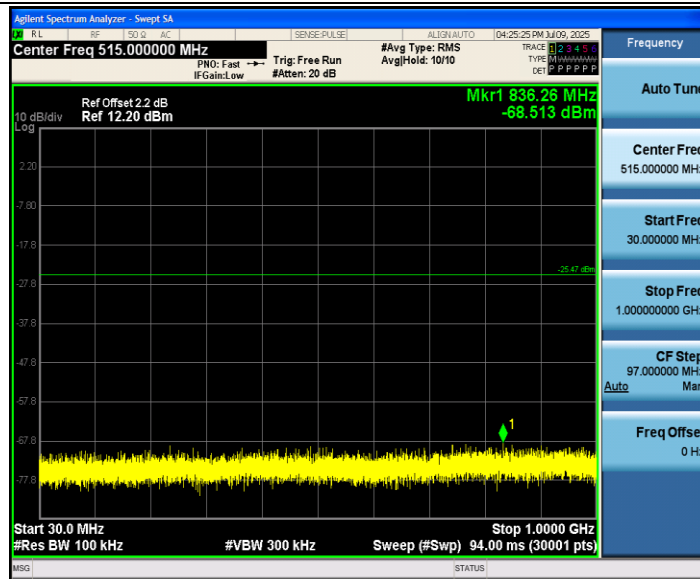
BLE_1M_Ant1_2440_1000~26500



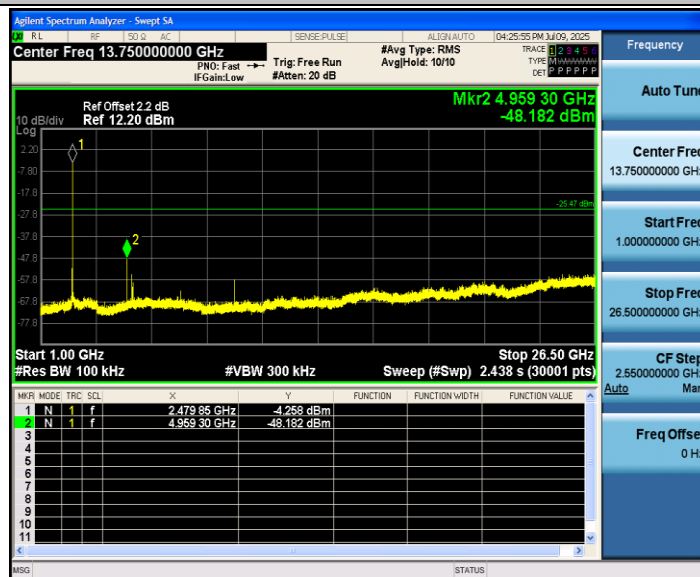
BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500



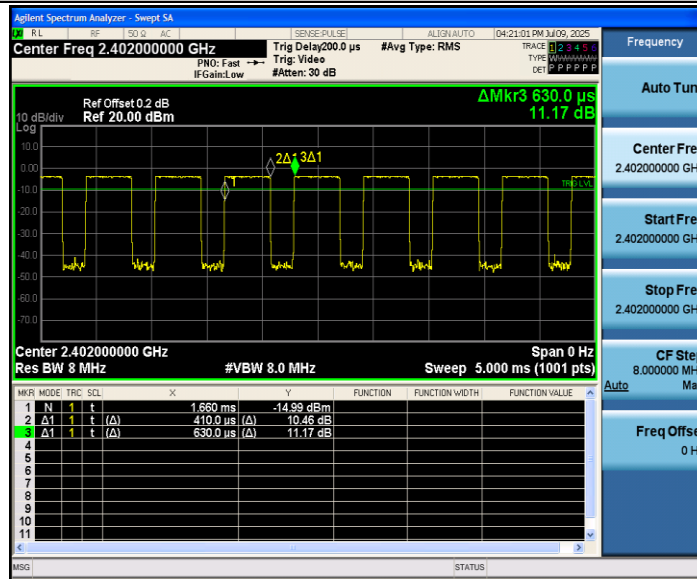
Appendix G: Duty Cycle

Test Result

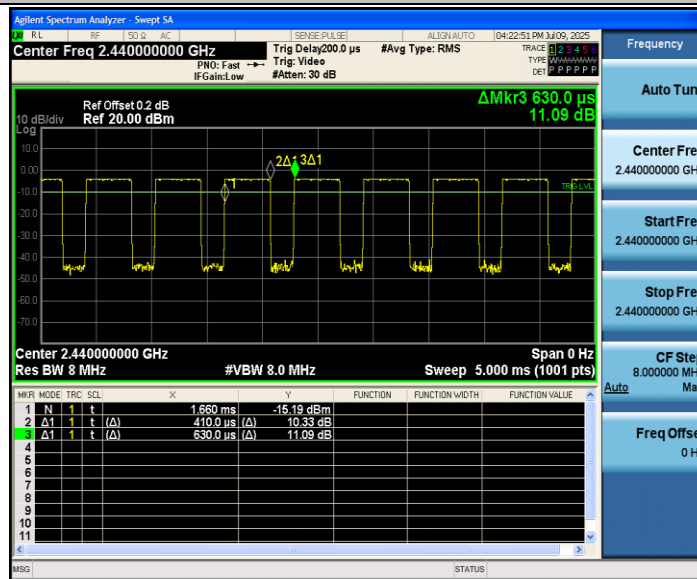
TestMode	Antenna	Freq(MHz)	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
BLE_1M	Ant1	2402	0.41	0.63	0.6508	65.08	1.87	---	---
		2440	0.41	0.63	0.6508	65.08	1.87	---	---
		2480	0.41	0.63	0.6508	65.08	1.87	---	---

Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

