

FCC Appendix RF Test Data

FCC ID : 2BC3X-T7

Company: : Dongguan Langchen Technology Co.,Ltd.

EUT : Smart watch

Model Number : T7

Report No. : CTA25050801001

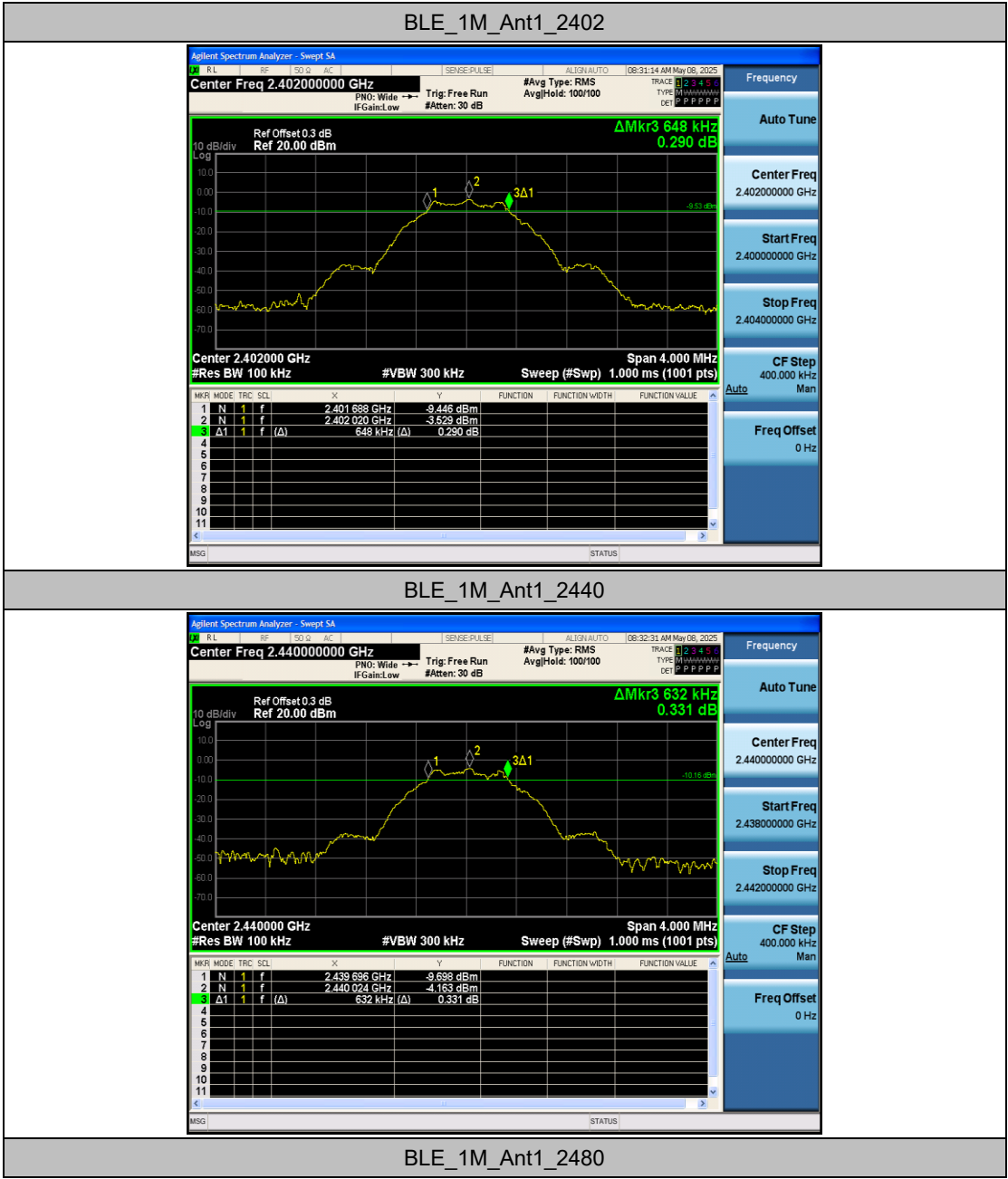
Reviewed By : Eric Wang

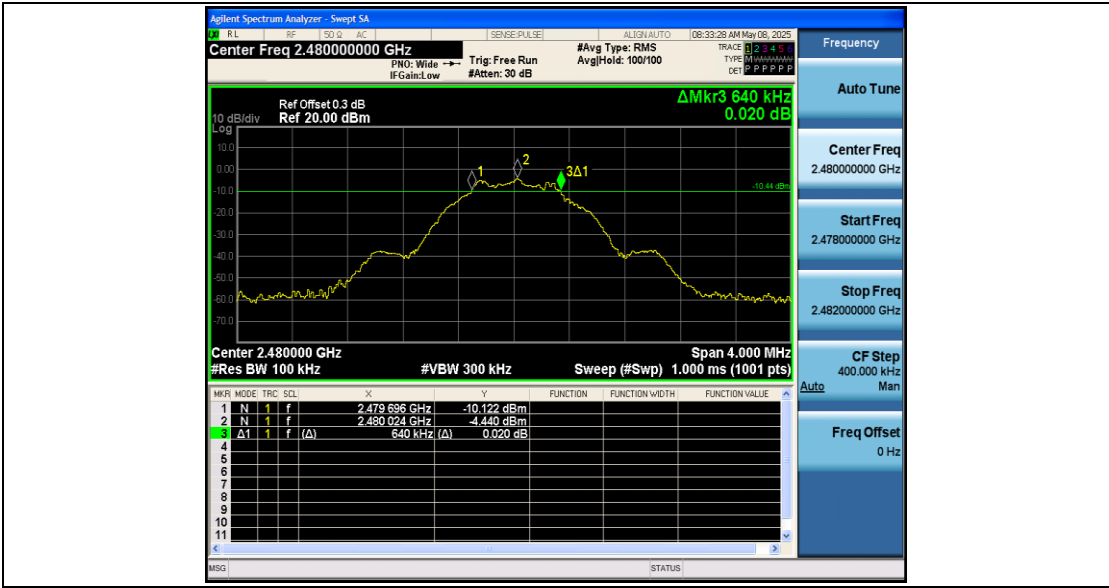
Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.648	2401.688	2402.336	0.5	PASS
		2440	0.632	2439.696	2440.328	0.5	PASS
		2480	0.640	2479.696	2480.336	0.5	PASS

Test Graphs



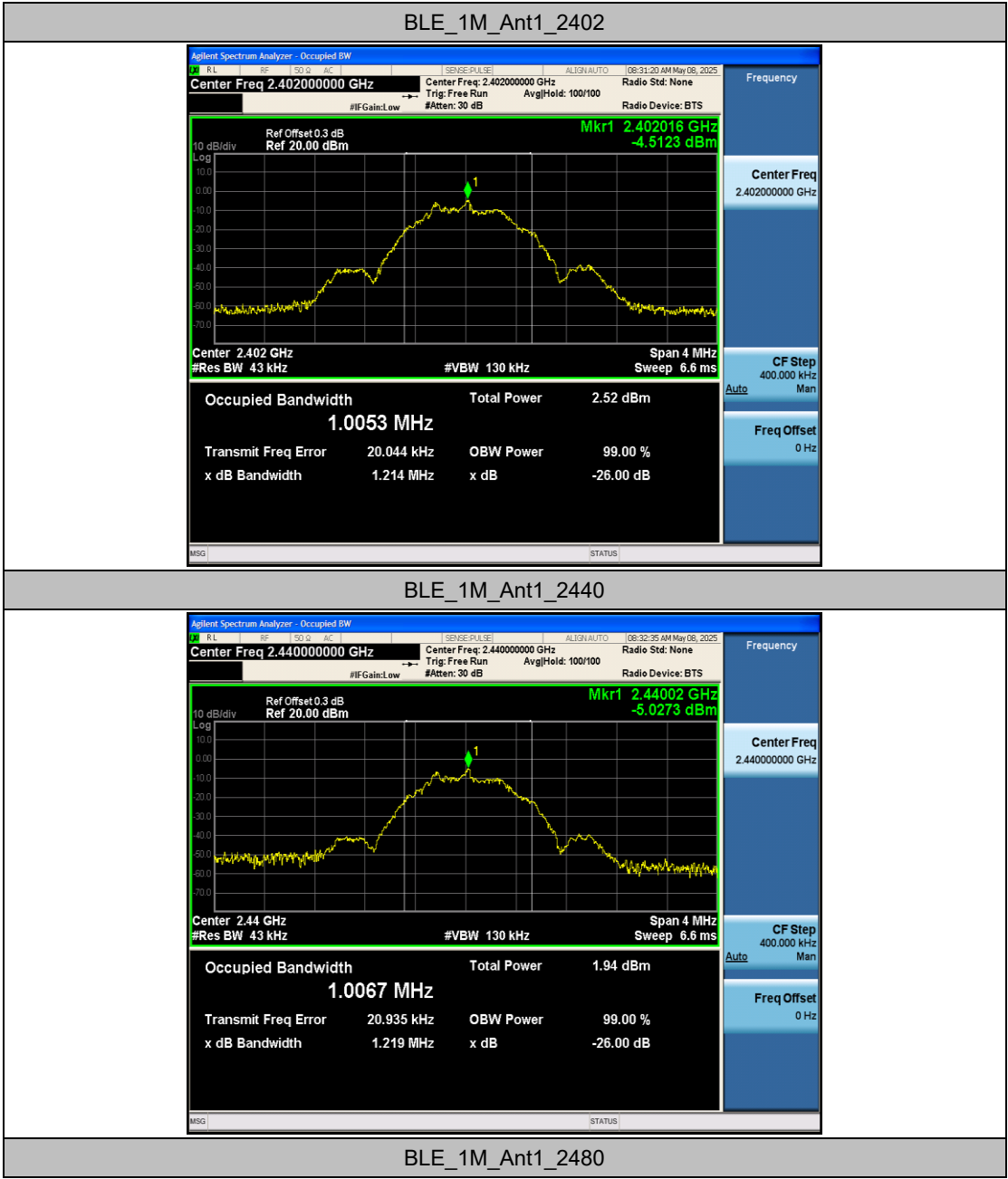


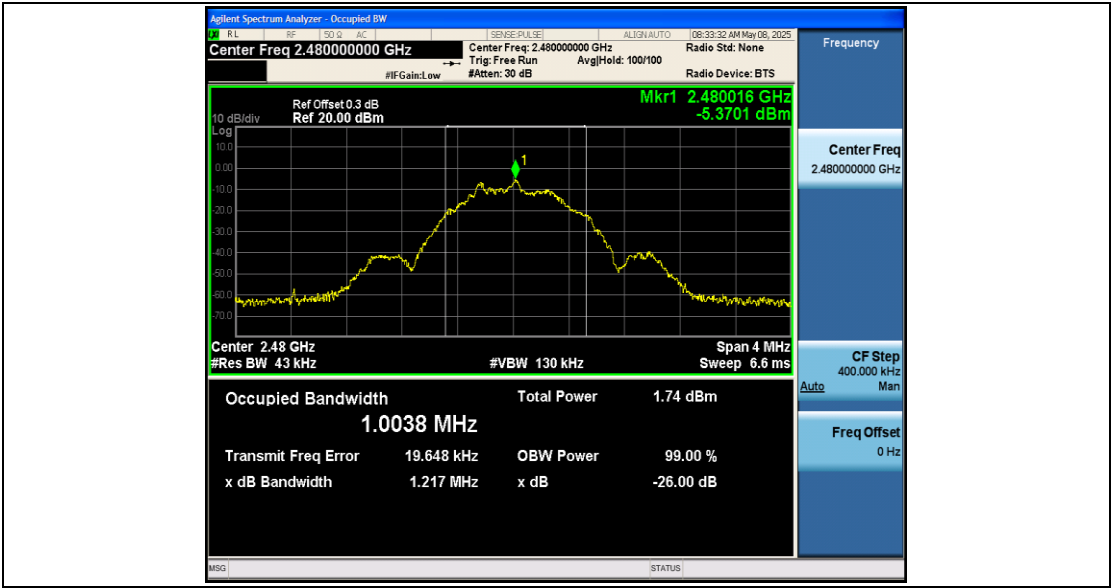
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0053	2401.5174	2402.5227	---	---
		2440	1.0067	2439.5176	2440.5243	---	---
		2480	1.0038	2479.5178	2480.5216	---	---

Test Graphs





Appendix C: Maximum conducted output power

Test Result Peak

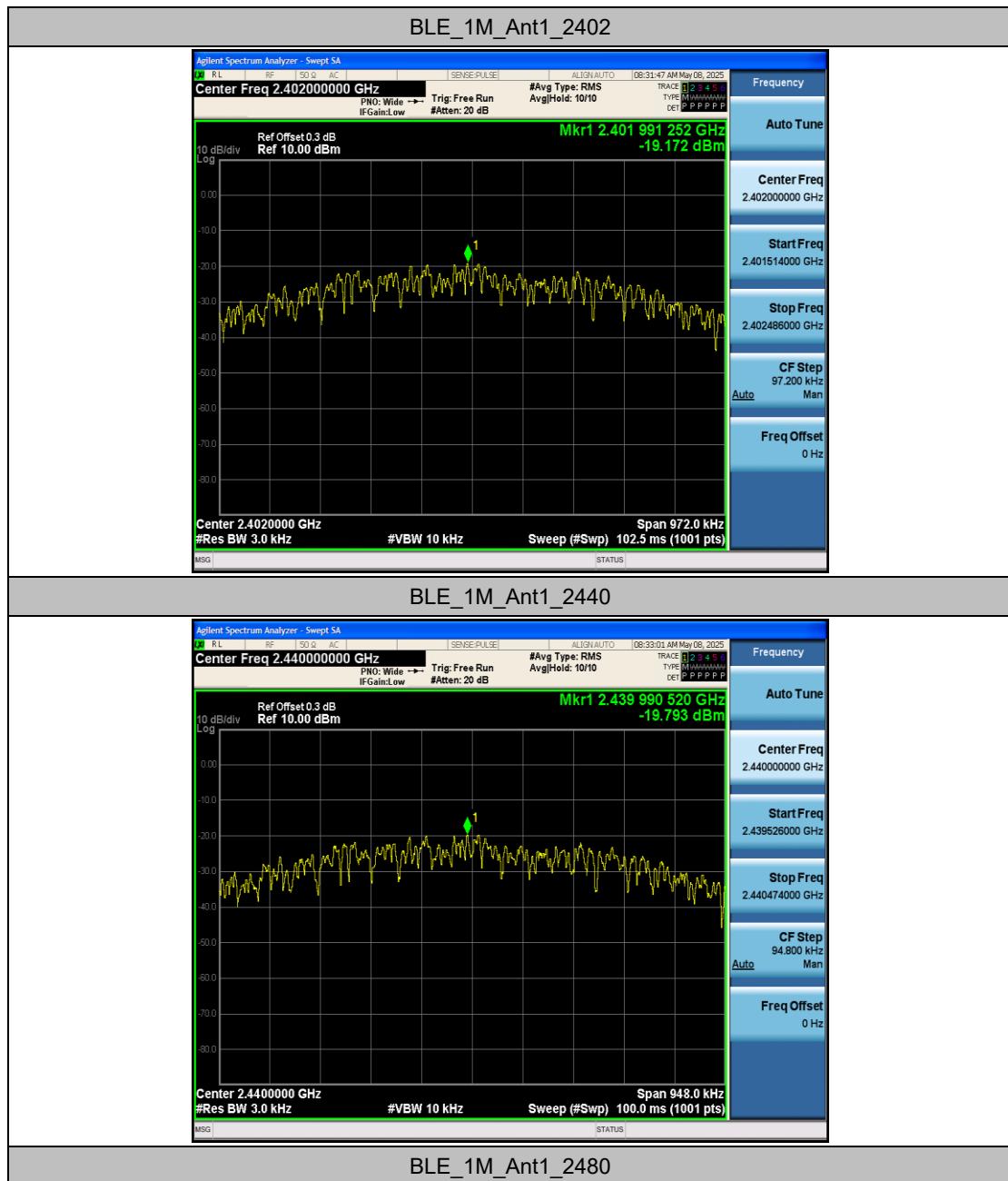
TestMode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-3.43	≤30	PASS
		2440	-3.95	≤30	PASS
		2480	-4.31	≤30	PASS

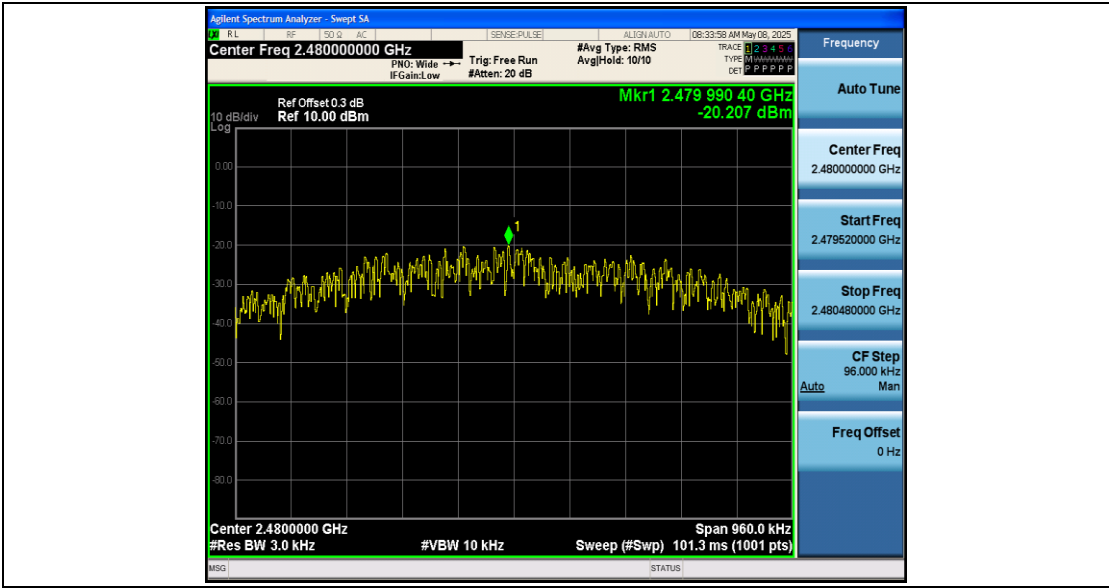
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-19.17	≤8.00	PASS
		2440	-19.79	≤8.00	PASS
		2480	-20.21	≤8.00	PASS

Test Graphs





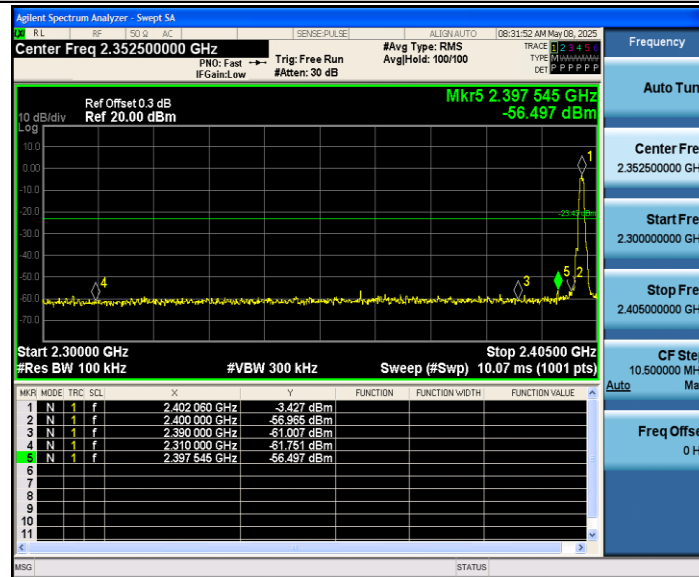
Appendix E: Band edge measurements

Test Result

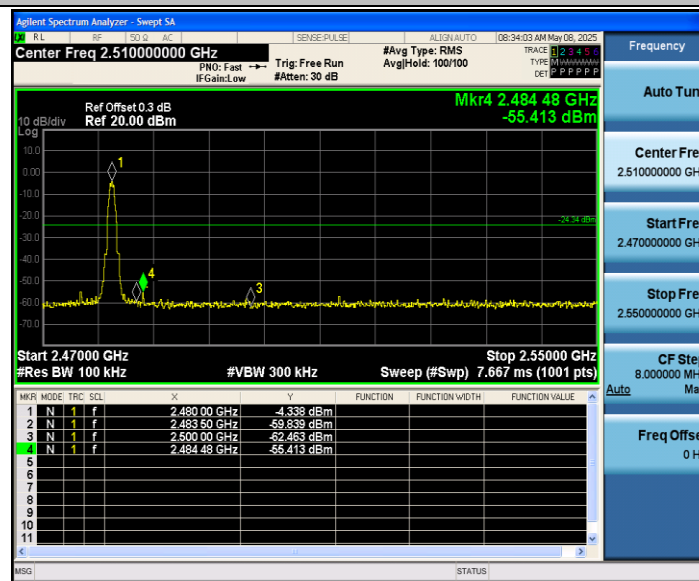
TestMod e	Antenn a	ChNam e	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdic t
BLE_1M	Ant1	Low	2402	-3.43	-56.5	≤-23.43	PASS
		High	2480	-4.34	-55.41	≤-24.34	PASS

Test Graphs

BLE_1M_Ant1_Low_2402



BLE_1M_Ant1_High_2480

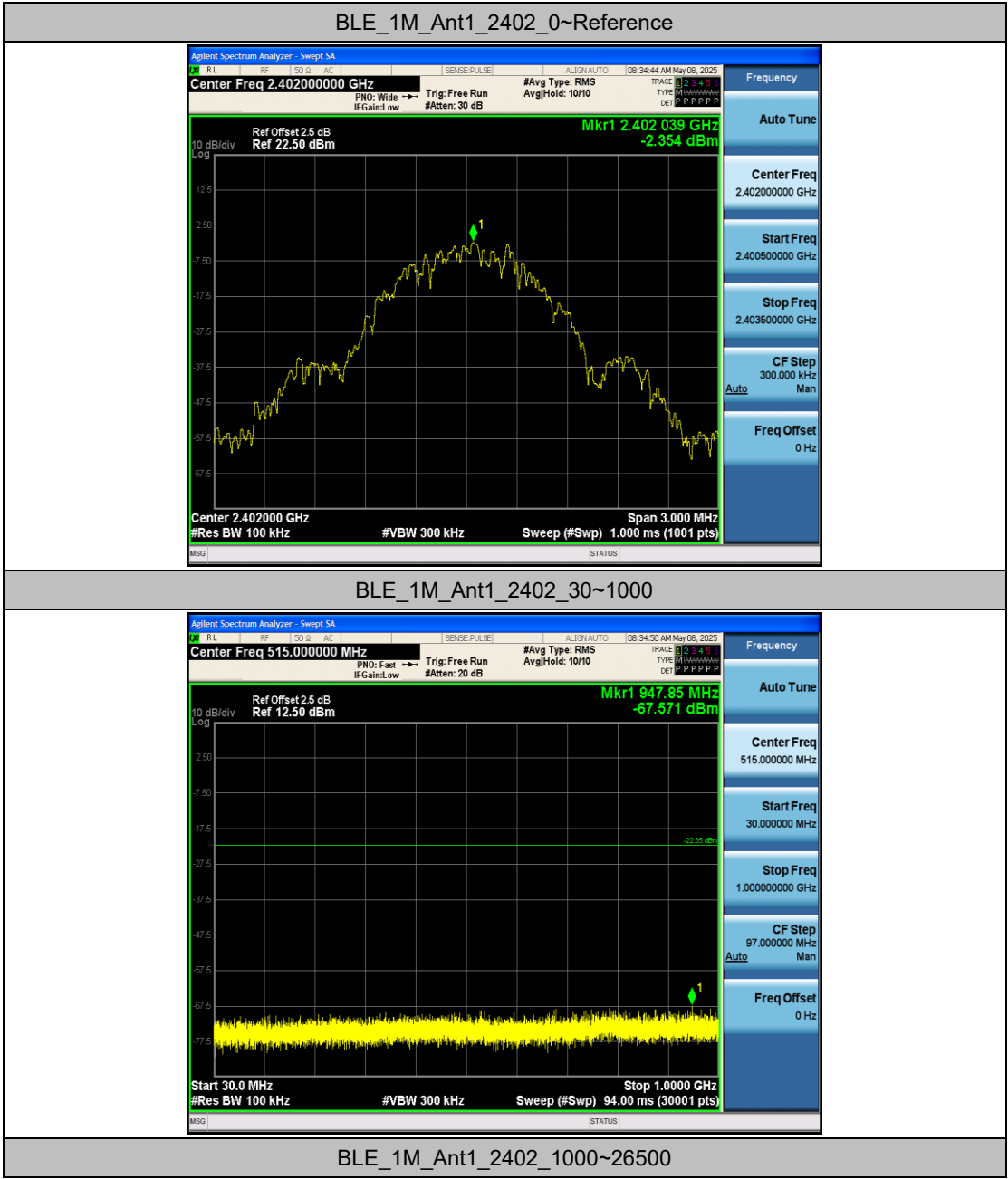


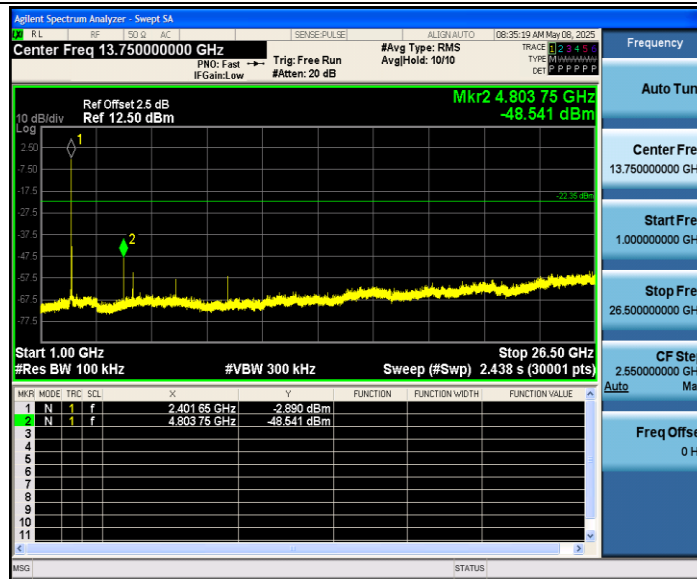
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-2.35	-2.35	---	PASS
			30~1000	-2.35	-67.57	≤-22.35	PASS
			1000~26500	-2.35	-48.54	≤-22.35	PASS
		2440	Reference	-2.63	-2.63	---	PASS
			30~1000	-2.63	-68.53	≤-22.63	PASS
			1000~26500	-2.63	-45.85	≤-22.63	PASS
		2480	Reference	-3.06	-3.06	---	PASS
			30~1000	-3.06	-67.41	≤-23.06	PASS
			1000~26500	-3.06	-46.62	≤-23.06	PASS

Test Graphs

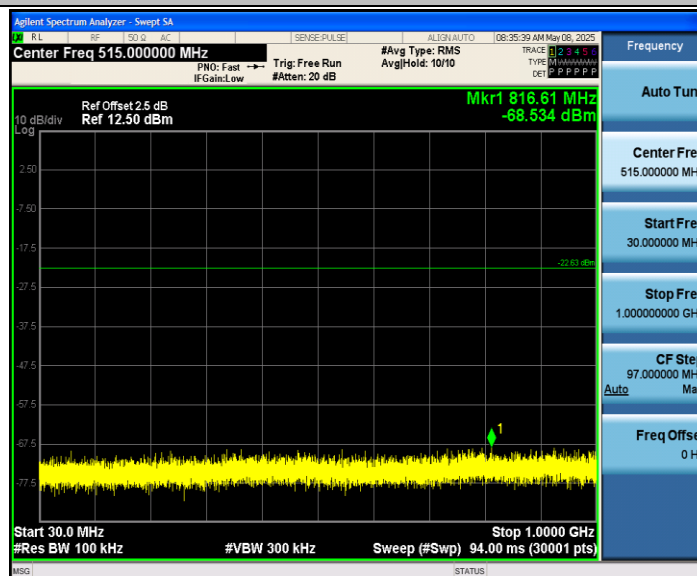




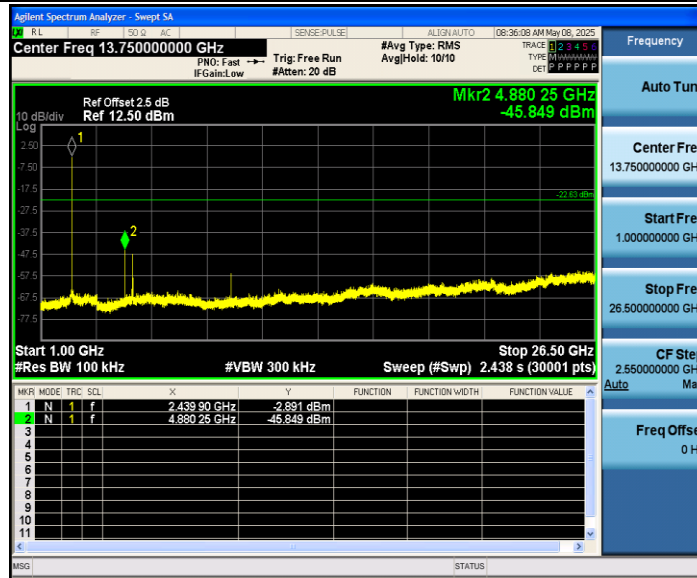
BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



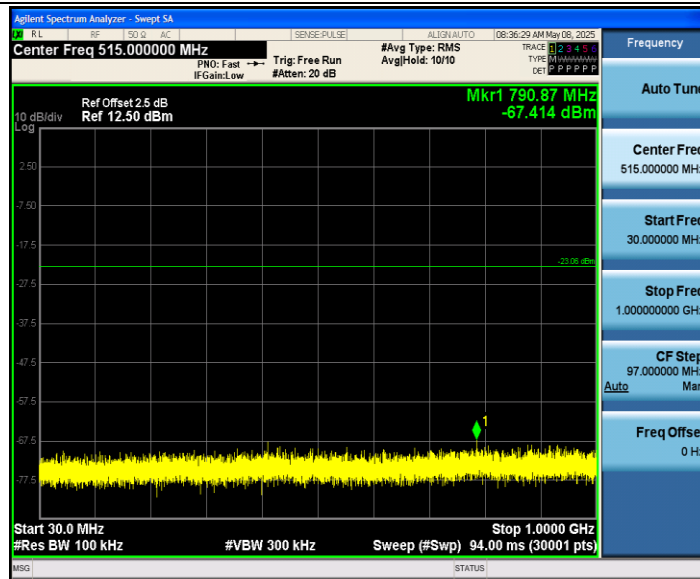
BLE_1M_Ant1_2440_1000~26500



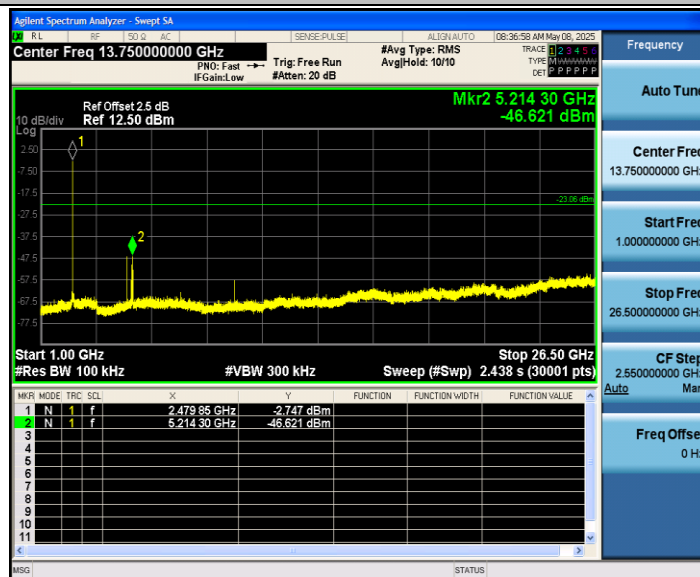
BLE_1M_Ant1_2480_0~Reference



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

