

FCC Appendix RF Test Data for BLE

Company: : ShenZhen DeFengYuan Technology Co.,Ltd

EUT : wireless keyboard with case

Model Number : K07D

FCC ID : 2ADBH-K07D

Report No. : CTA25091100901

Reviewed By : Eric Wang

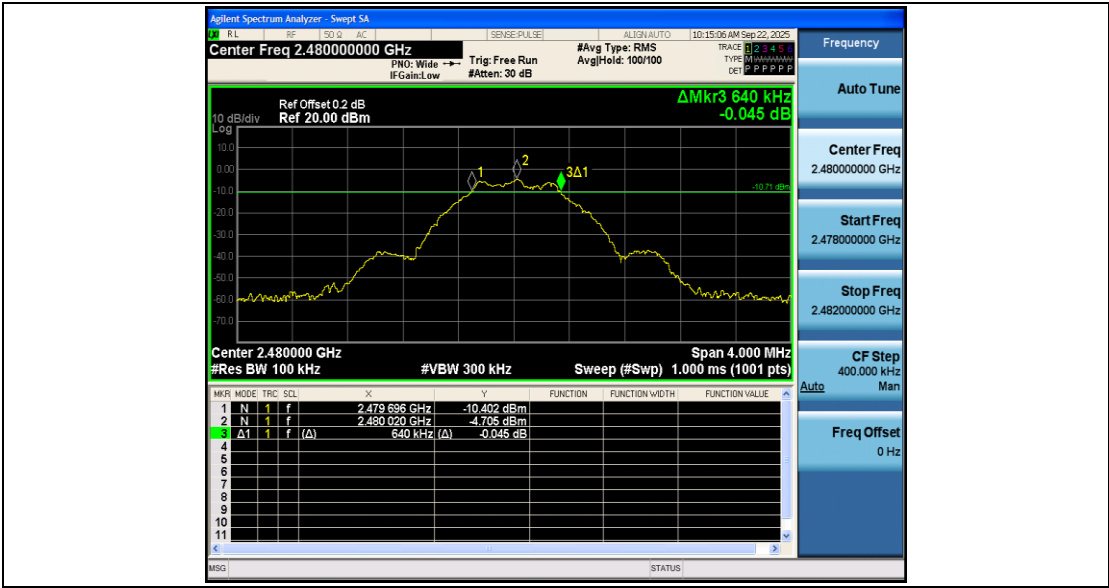
Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.660	2401.680	2402.340	0.5	PASS
		2440	0.648	2439.688	2440.336	0.5	PASS
		2480	0.640	2479.696	2480.336	0.5	PASS

Test Graphs



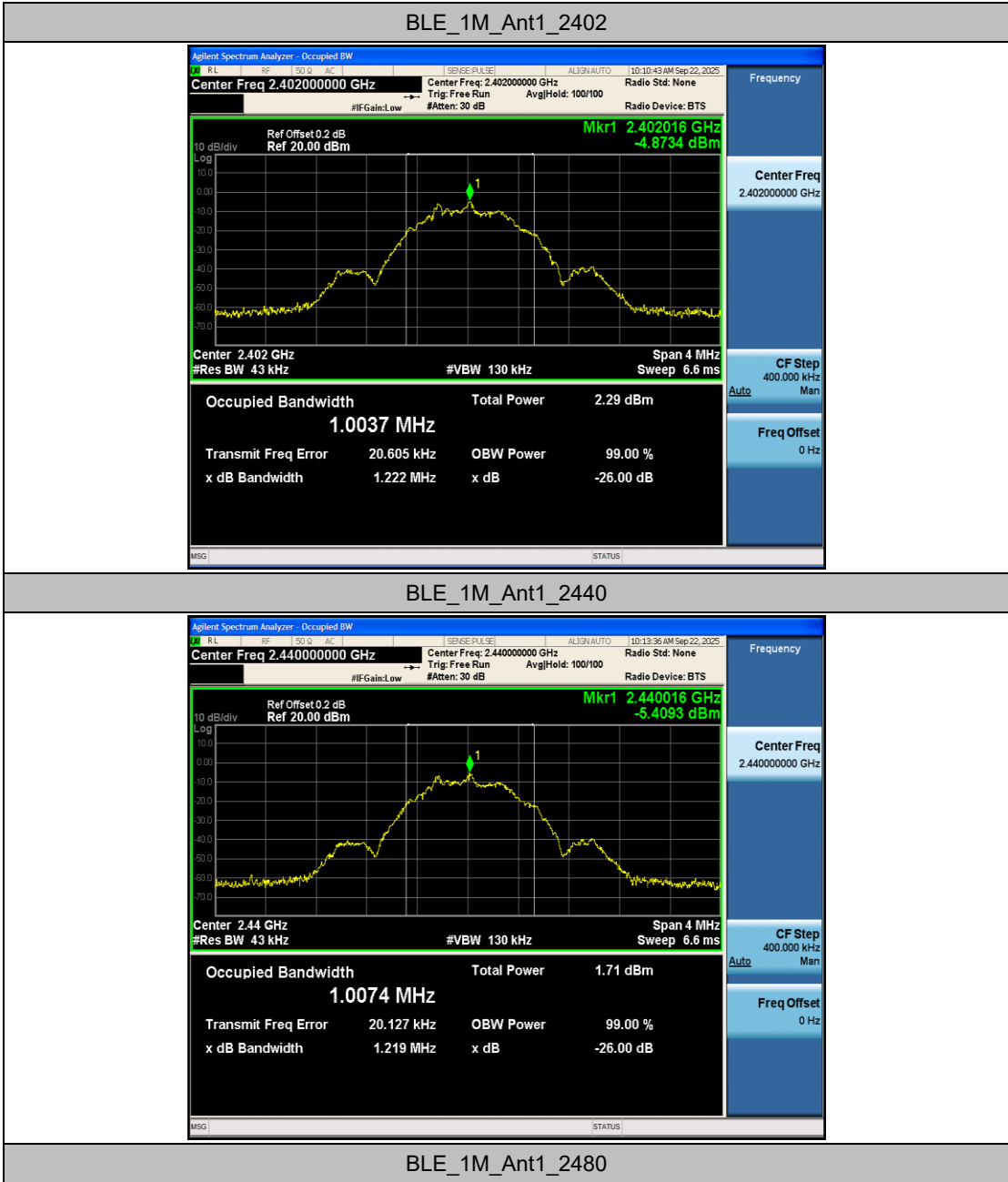


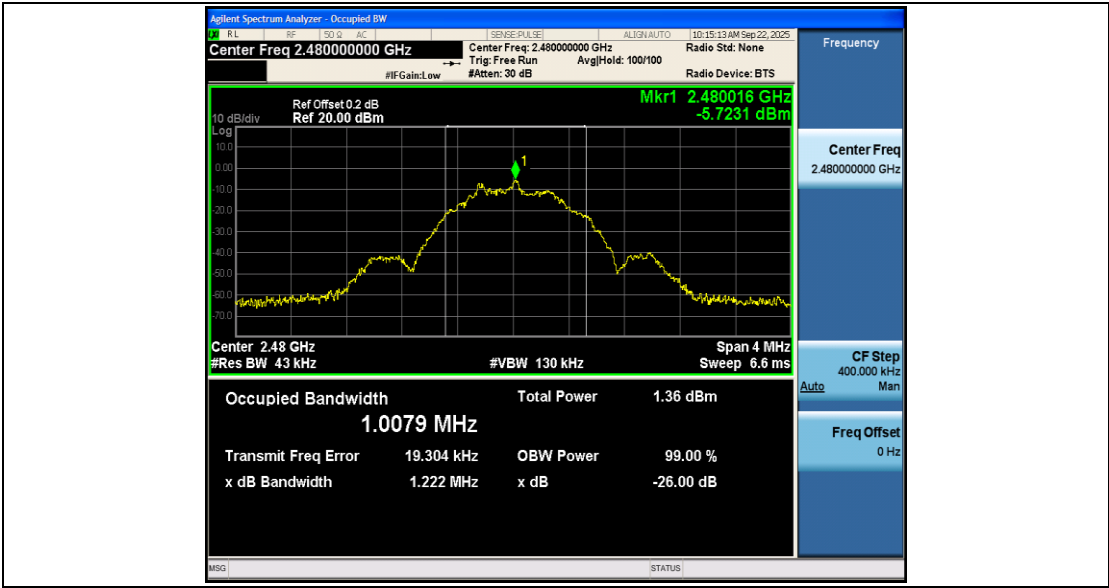
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0037	2401.5188	2402.5225	---	---
		2440	1.0074	2439.5164	2440.5238	---	---
		2480	1.0079	2479.5154	2480.5233	---	---

Test Graphs





Appendix C: Maximum conducted output power

Test Result Peak

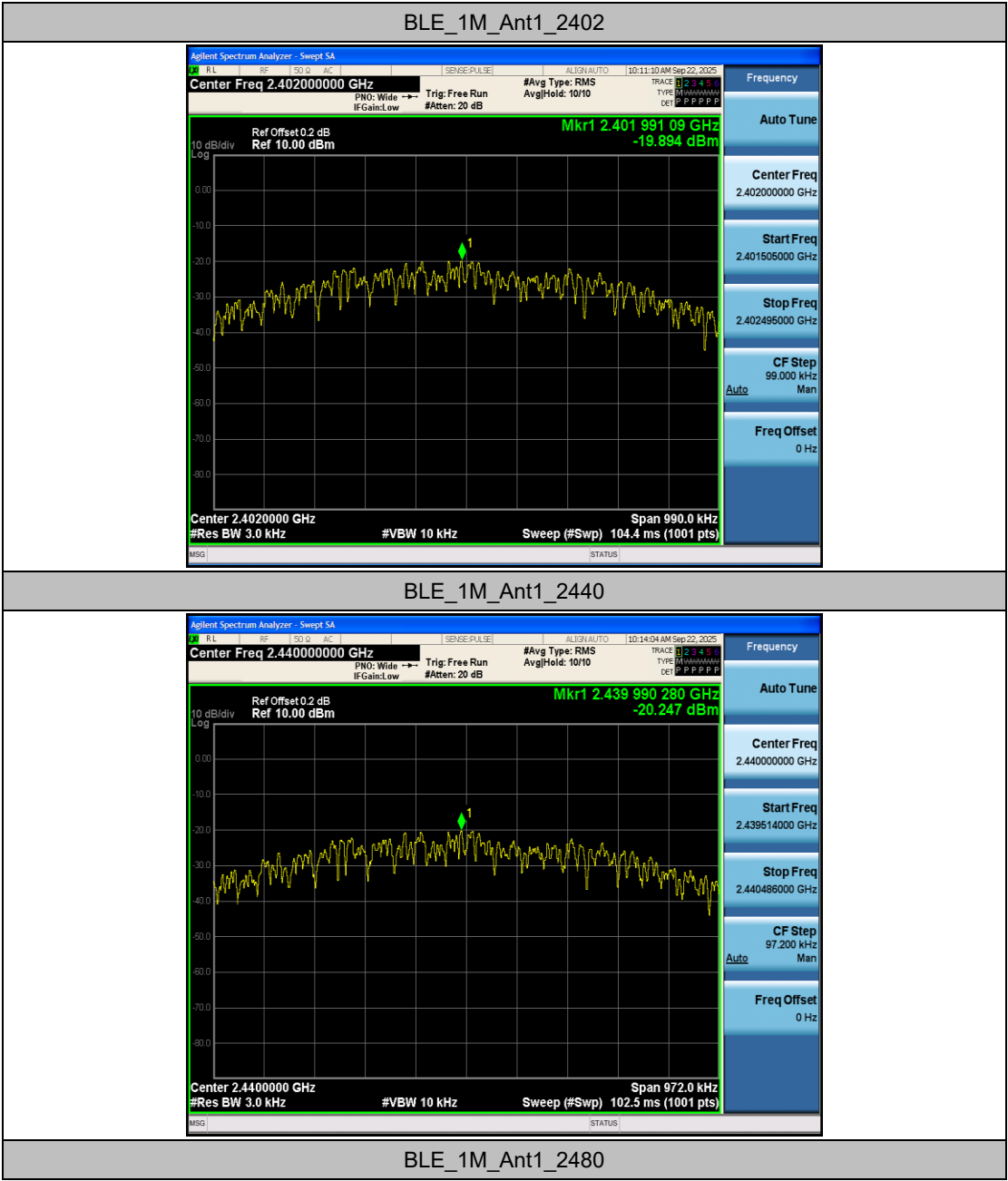
TestMode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-3.90	≤30	PASS
		2440	-4.47	≤30	PASS
		2480	-4.81	≤30	PASS

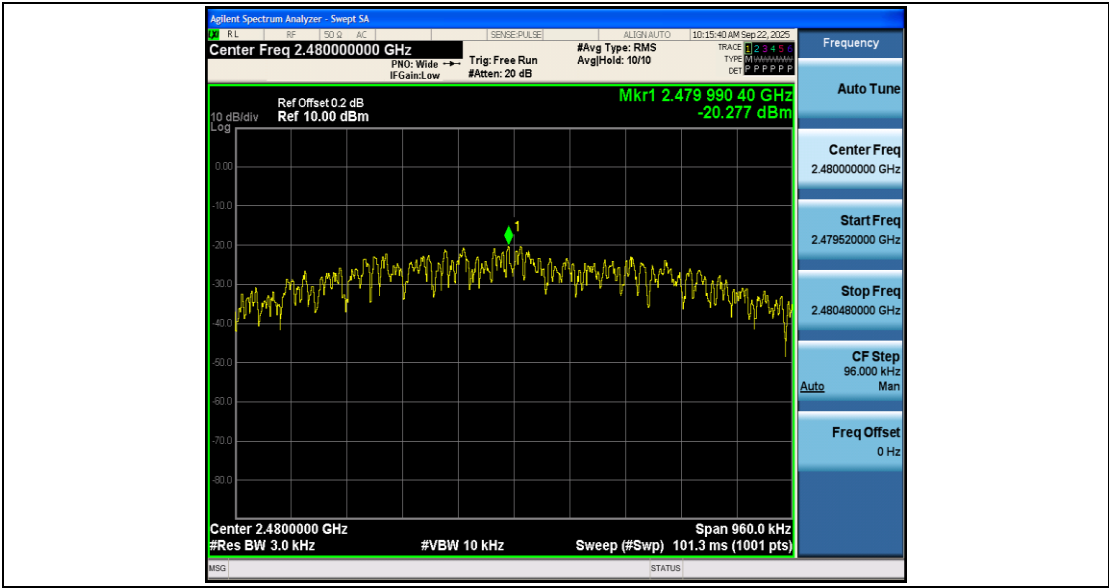
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-19.89	≤8.00	PASS
		2440	-20.25	≤8.00	PASS
		2480	-20.28	≤8.00	PASS

Test Graphs



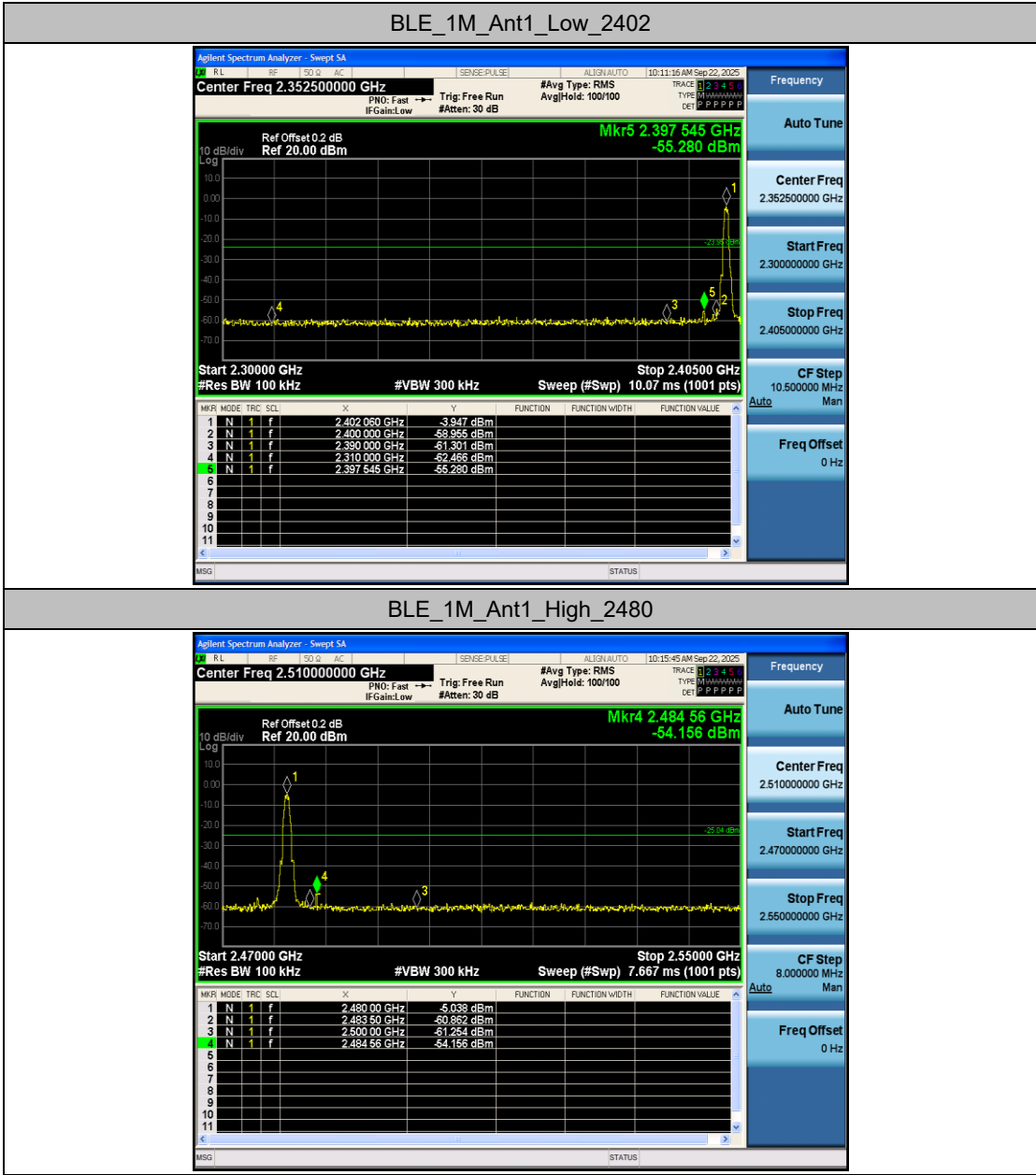


Appendix E: Band edge measurements

Test Result

TestMod e	Antenn a	ChNam e	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdic t
BLE_1M	Ant1	Low	2402	-3.95	-55.28	≤-23.95	PASS
		High	2480	-5.04	-54.16	≤-25.04	PASS

Test Graphs

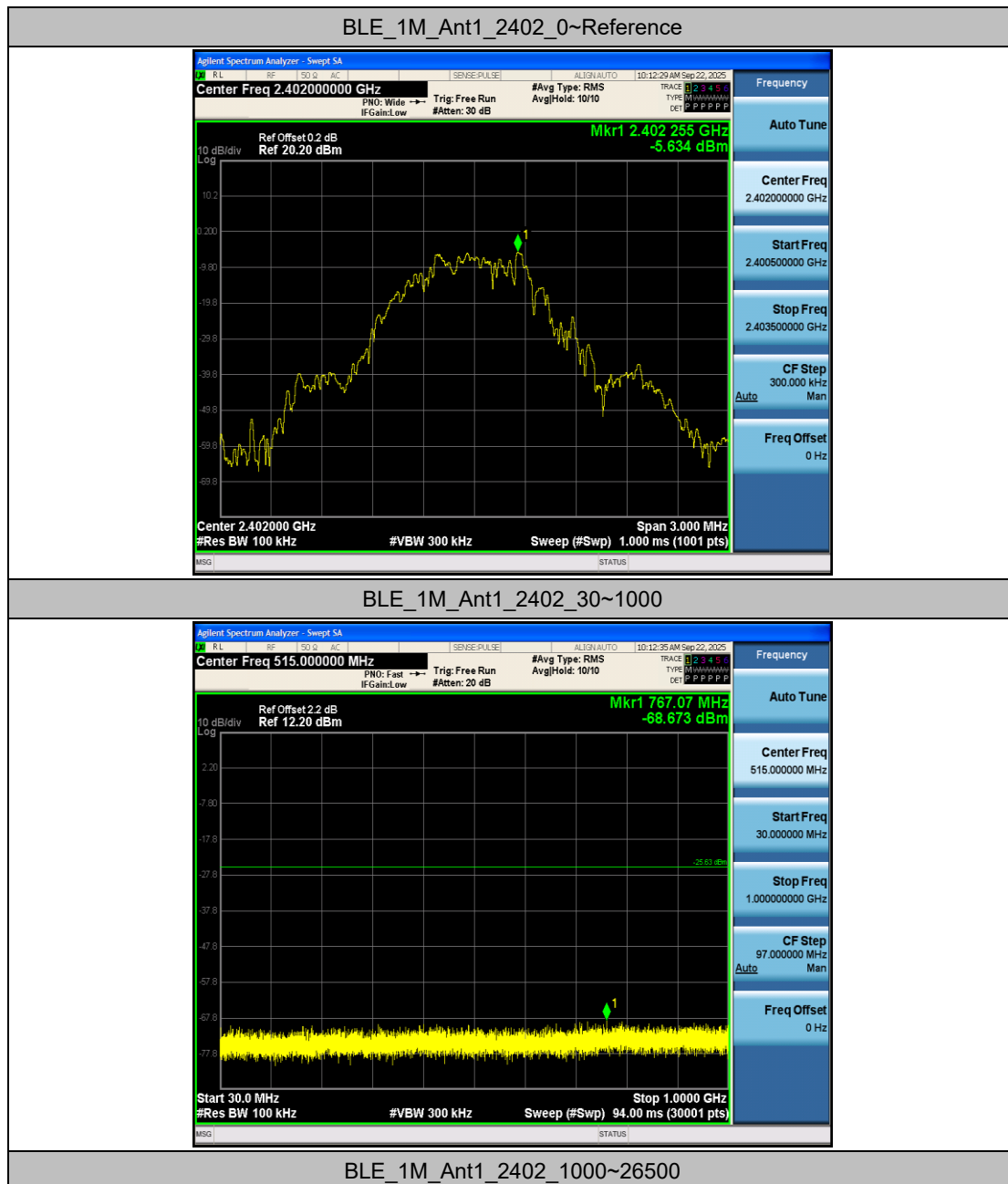


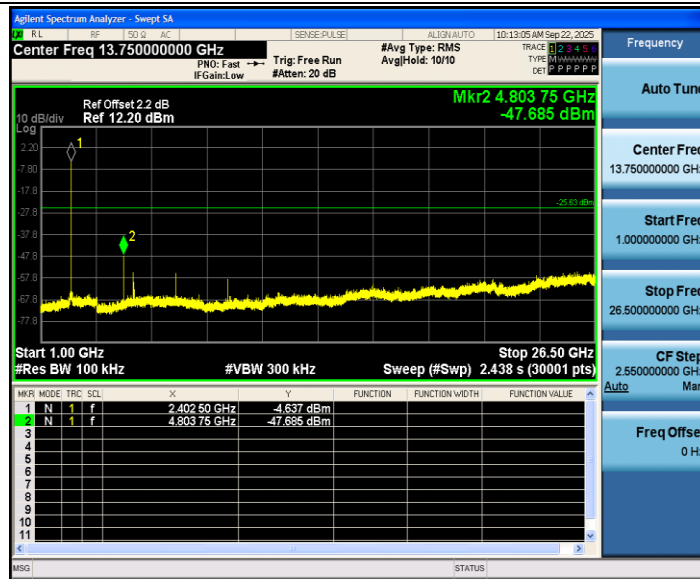
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-5.63	-5.63	---	PASS
			30~1000	-5.63	-68.67	≤-25.63	PASS
			1000~26500	-5.63	-47.69	≤-25.63	PASS
		2440	Reference	-4.69	-4.69	---	PASS
			30~1000	-4.69	-68.79	≤-24.69	PASS
			1000~26500	-4.69	-49.6	≤-24.69	PASS
		2480	Reference	-5.68	-5.68	---	PASS
			30~1000	-5.68	-68.14	≤-25.68	PASS
			1000~26500	-5.68	-48.13	≤-25.68	PASS

Test Graphs

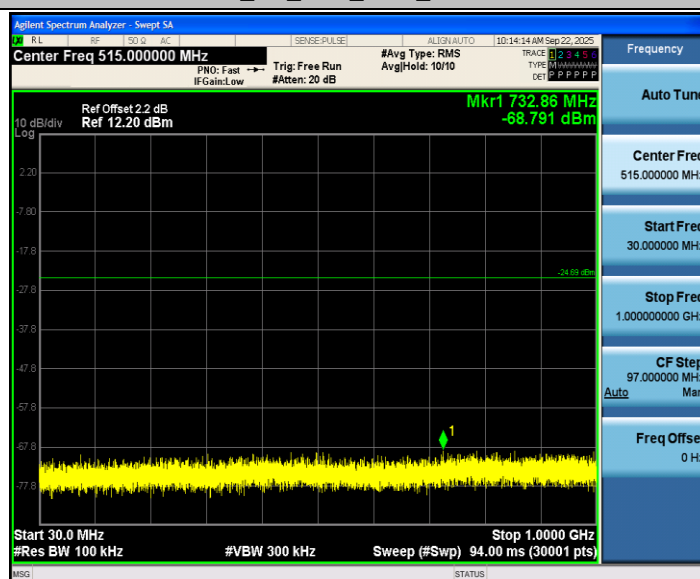




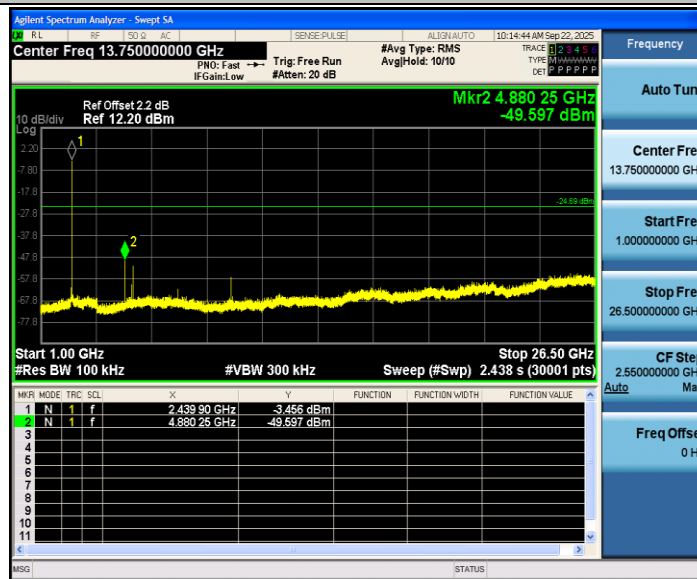
BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



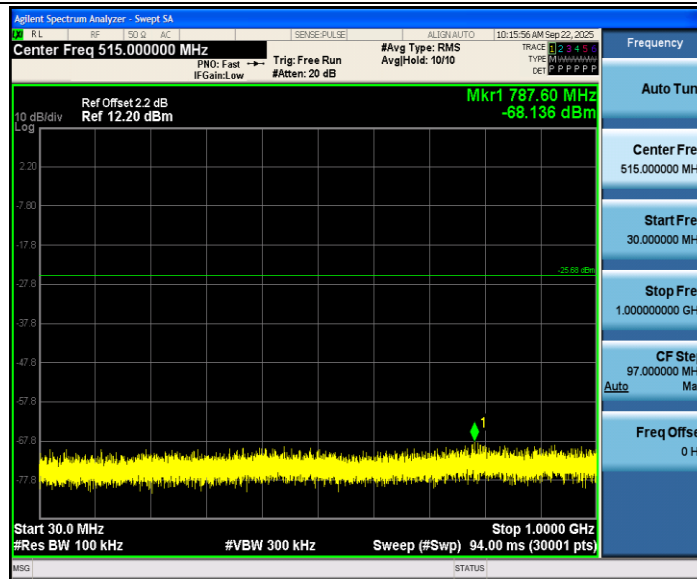
BLE_1M_Ant1_2440_1000~26500



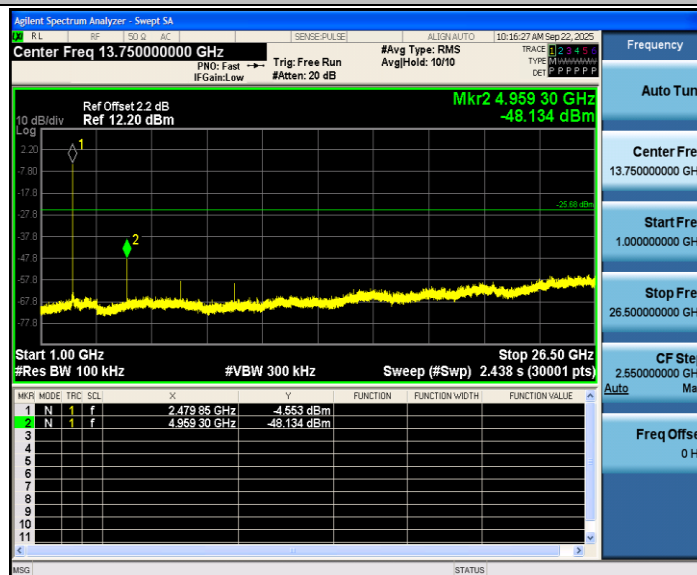
BLE_1M_Ant1_2480_0~Reference



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

