

FCC Appendix RF Test Data

FCC ID : 2BOU9-R82

Company: : Shenzhen Yuntian Intelligent Terminal Co.,LTD.

EUT : SMART LOCK

Model Number : R82

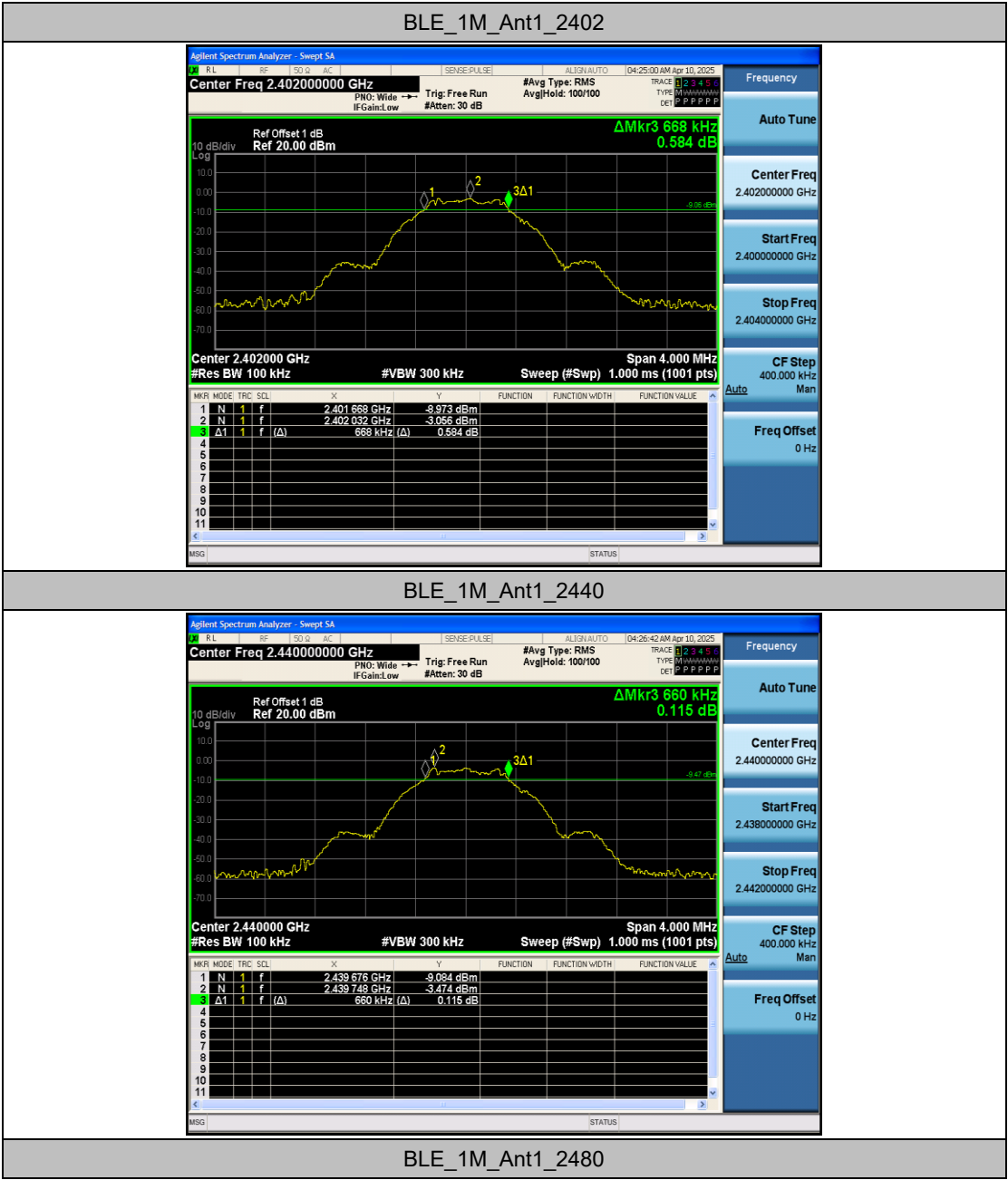
Reviewed By : Eric Wang

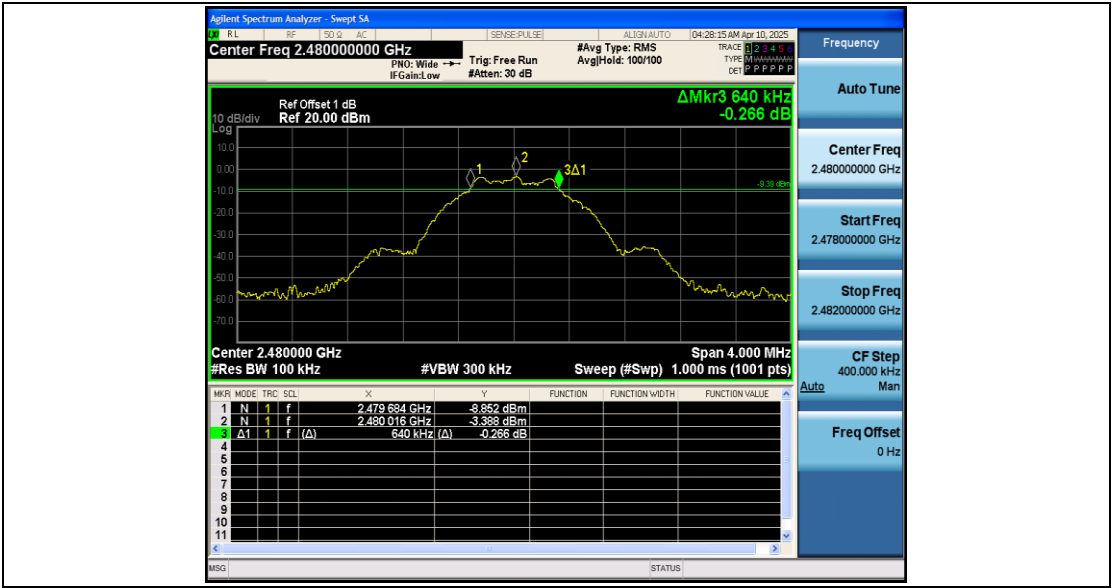
Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.668	2401.668	2402.336	0.5	PASS
		2440	0.660	2439.676	2440.336	0.5	PASS
		2480	0.640	2479.684	2480.324	0.5	PASS

Test Graphs



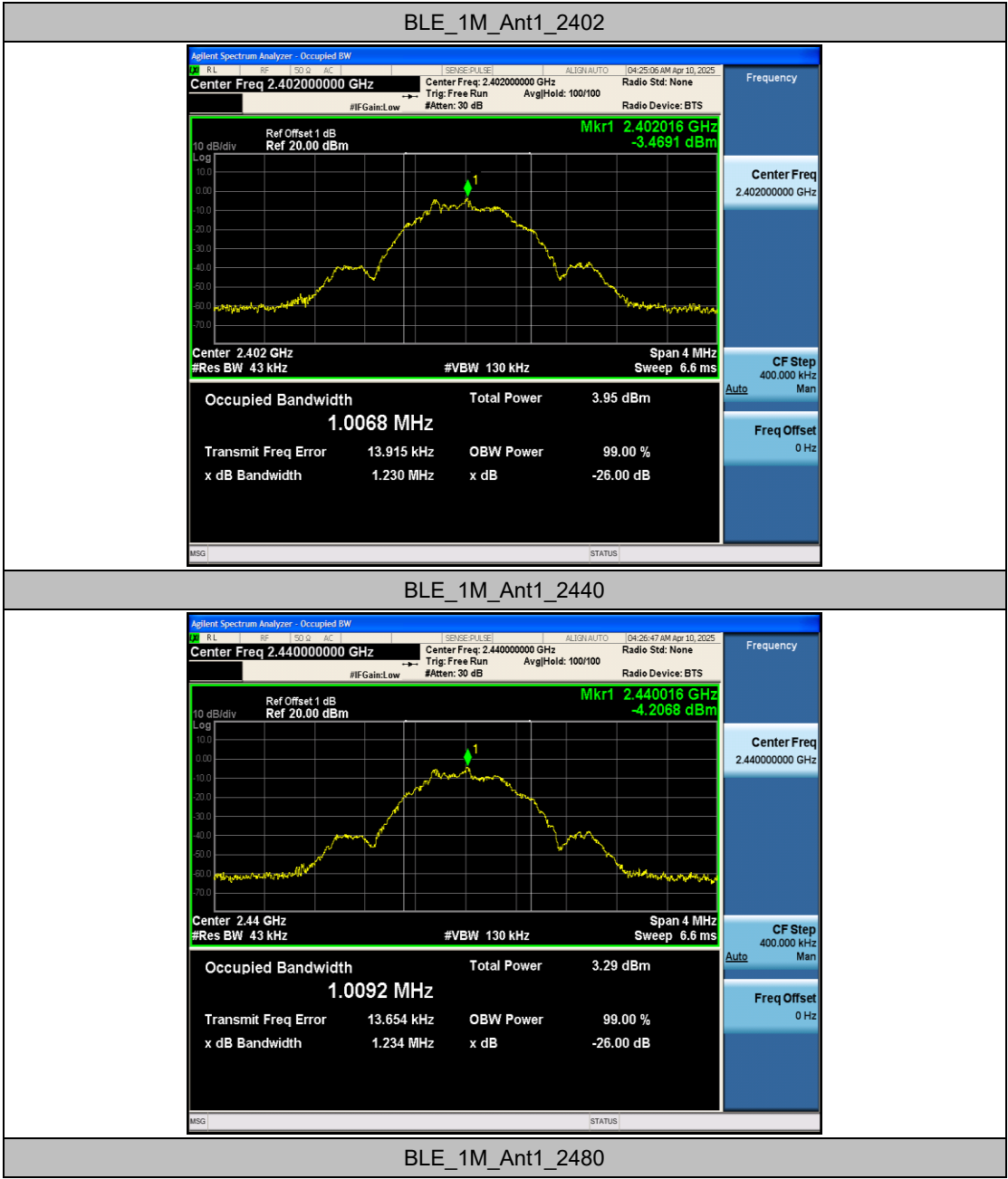


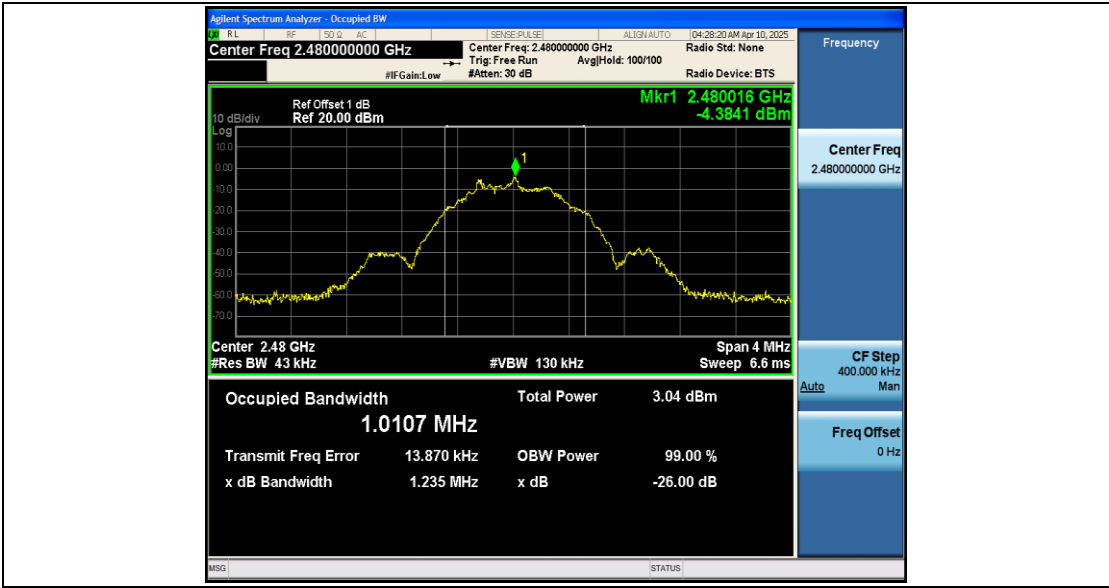
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0068	2401.5105	2402.5173	---	---
		2440	1.0092	2439.5091	2440.5183	---	---
		2480	1.0107	2479.5085	2480.5192	---	---

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	-2.20	≤30	PASS
		2440	-2.84	≤30	PASS
		2480	-3.10	≤30	PASS

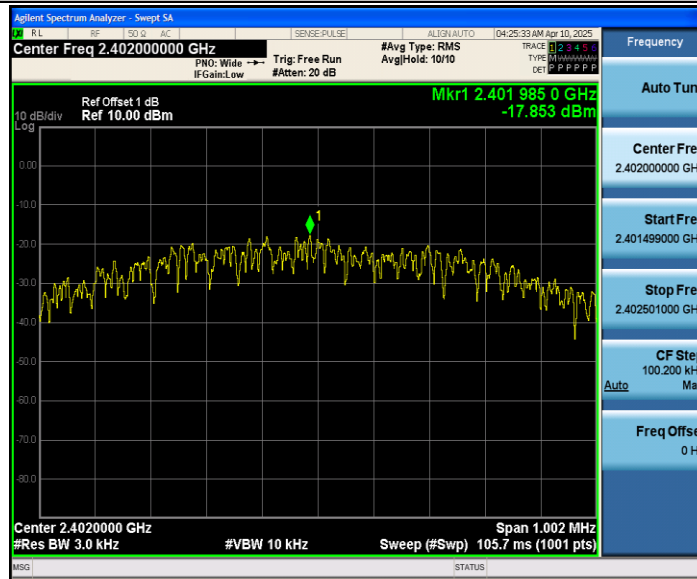
Appendix D: Maximum power spectral density

Test Result

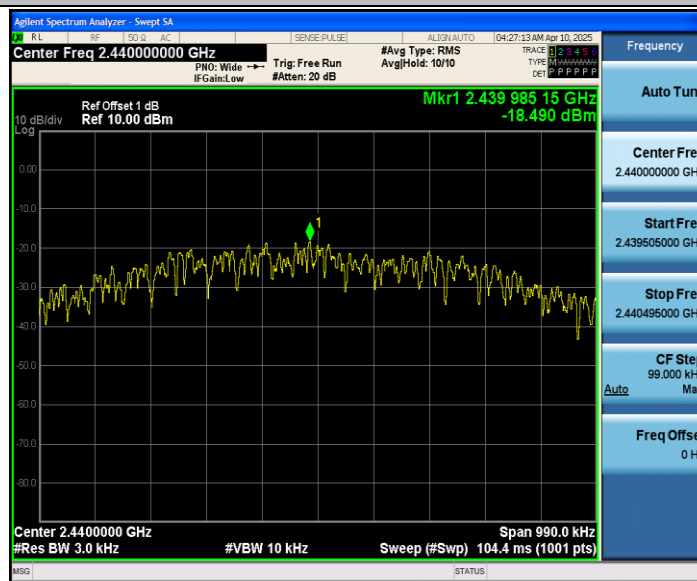
TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-17.85	≤8.00	PASS
		2440	-18.49	≤8.00	PASS
		2480	-18.57	≤8.00	PASS

Test Graphs

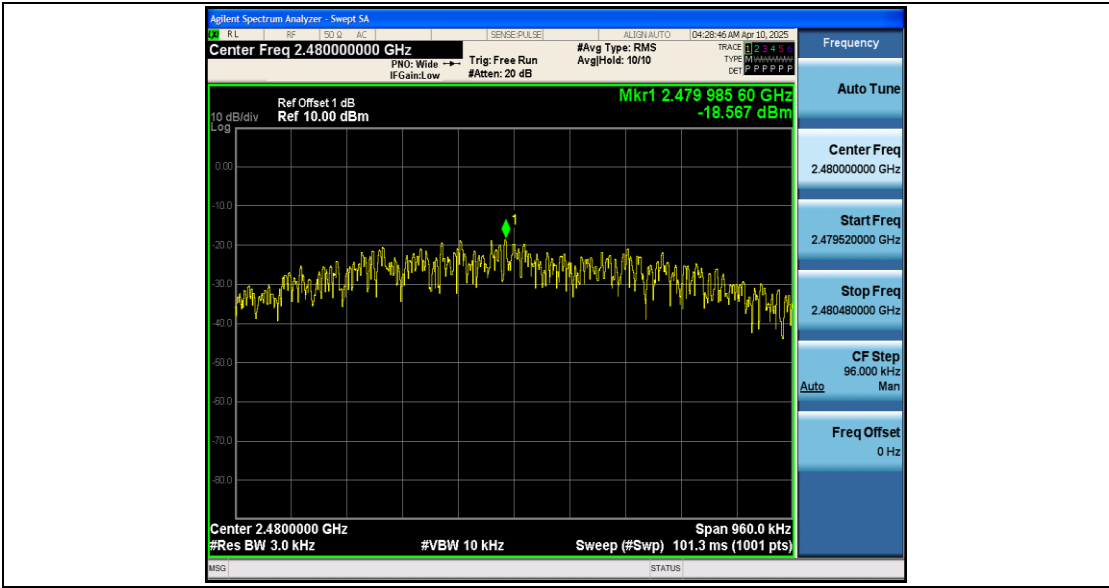
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



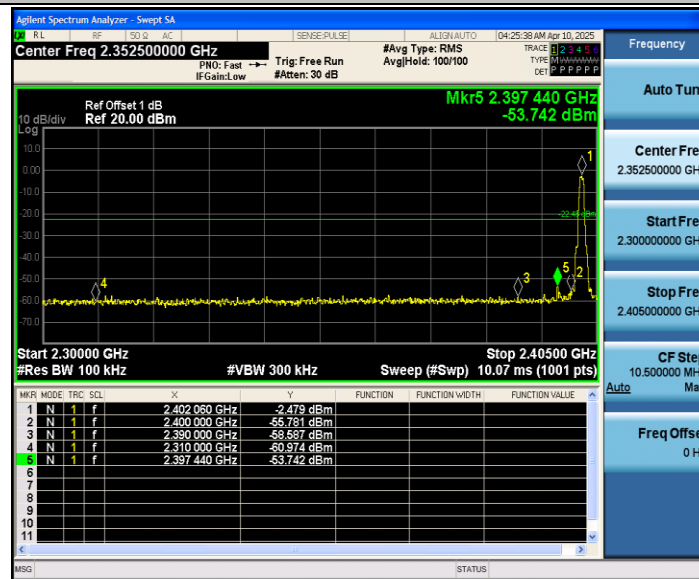
Appendix E: Band edge measurements

Test Result

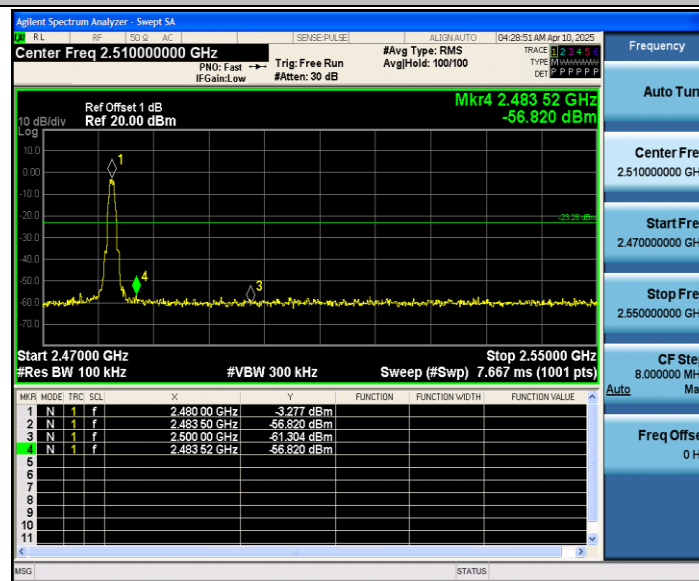
TestMod e	Antenn a	ChNam e	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdic t
BLE_1M	Ant1	Low	2402	-2.48	-53.74	≤-22.48	PASS
		High	2480	-3.28	-56.82	≤-23.28	PASS

Test Graphs

BLE_1M_Ant1_Low_2402



BLE_1M_Ant1_High_2480

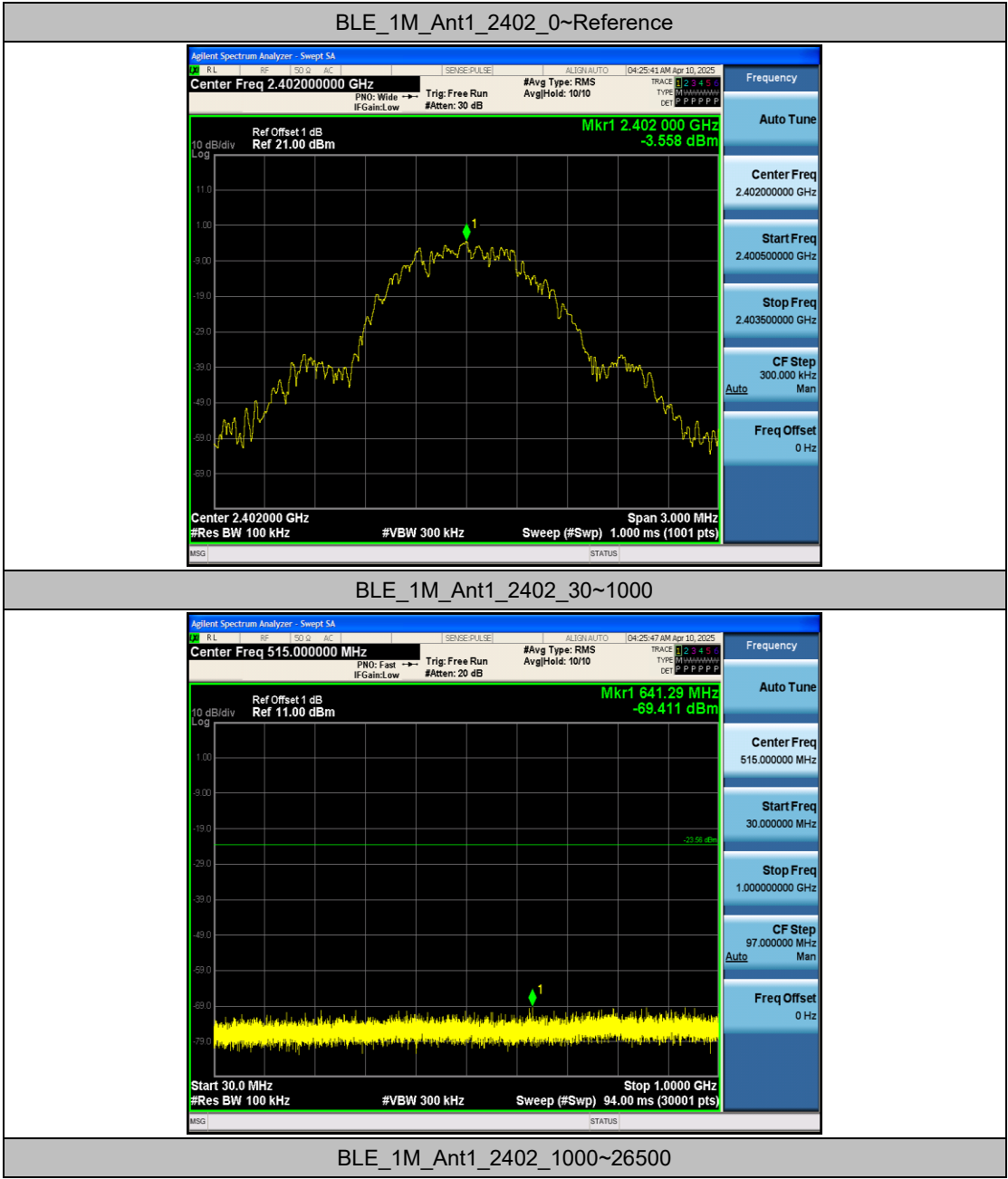


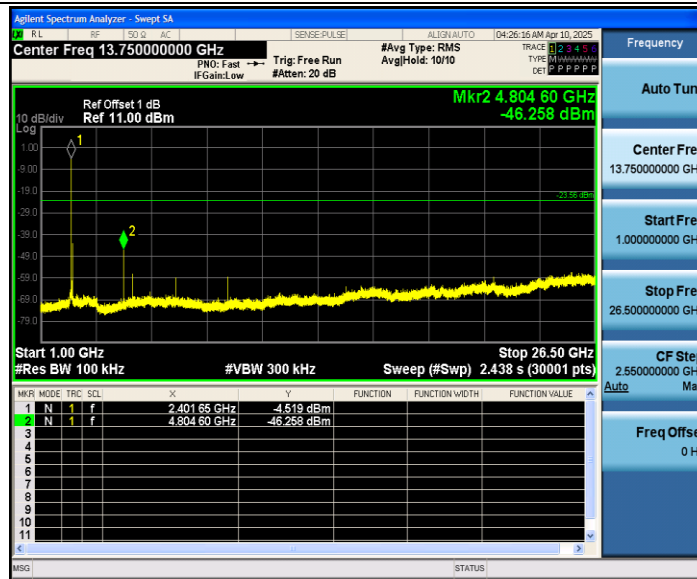
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-3.56	-3.56	---	PASS
			30~1000	-3.56	-69.41	≤-23.56	PASS
			1000~26500	-3.56	-46.26	≤-23.56	PASS
		2440	Reference	-4.17	-4.17	---	PASS
			30~1000	-4.17	-69.23	≤-24.17	PASS
			1000~26500	-4.17	-46.88	≤-24.17	PASS
		2480	Reference	-3.54	-3.54	---	PASS
			30~1000	-3.54	-68.39	≤-23.54	PASS
			1000~26500	-3.54	-47.31	≤-23.54	PASS

Test Graphs

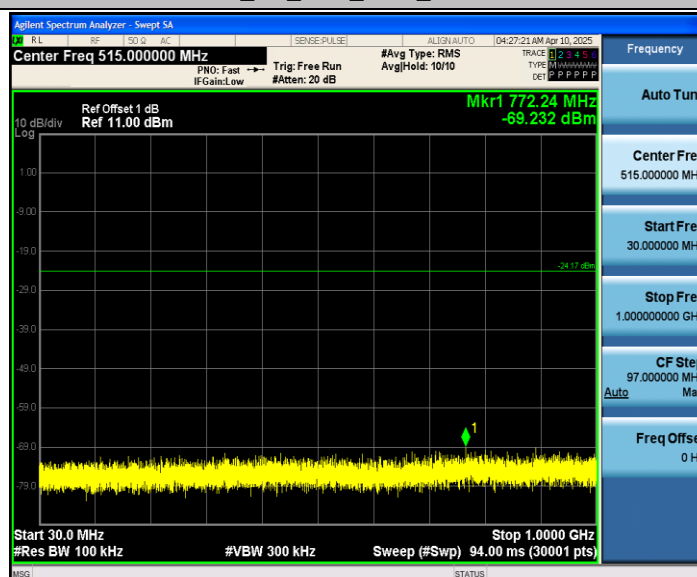




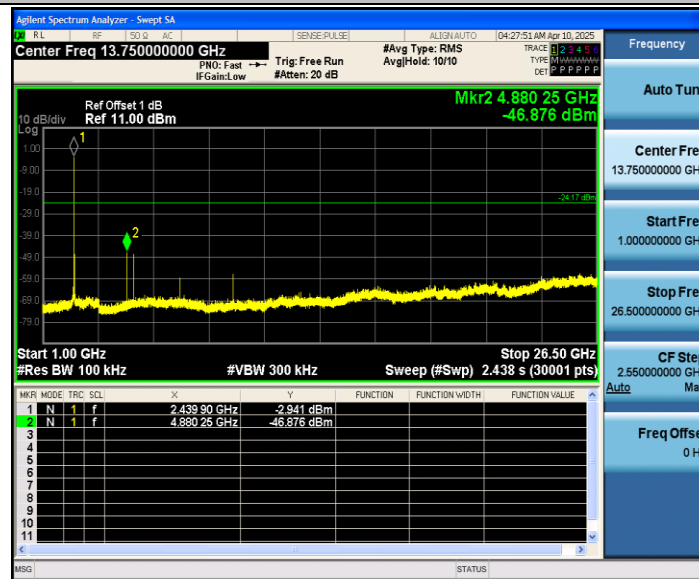
BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



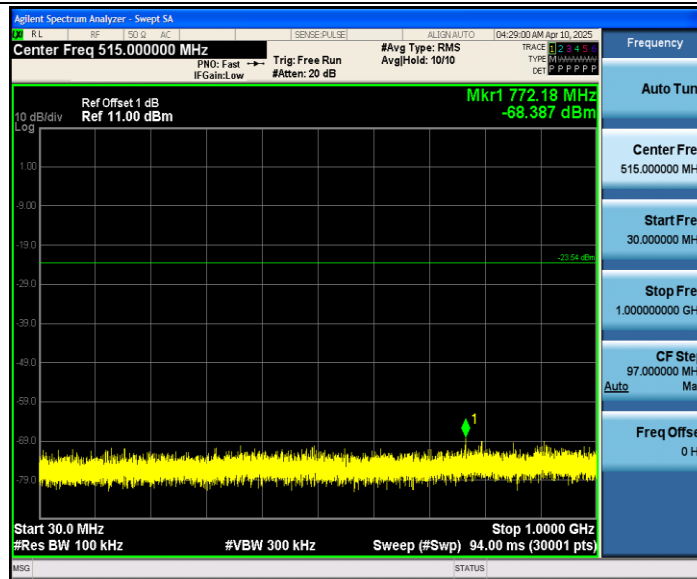
BLE_1M_Ant1_2440_1000~26500



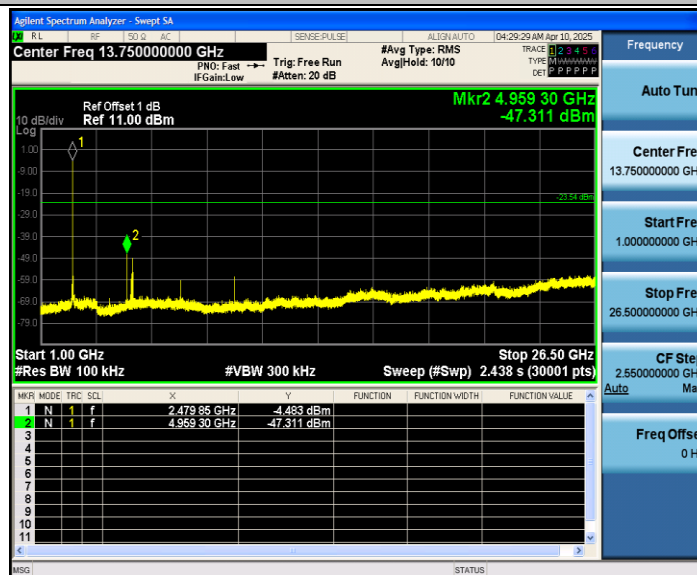
BLE_1M_Ant1_2480_0~Reference



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

