

FCC Appendix RF Test Data for BLE

FCC ID : **R38YLCPK21**

Company : **Yulong Computer Telecommunication
Scientific (Shenzhen) Co., Ltd**

EUT : **Smart Phone**

Model Number : **K21**

Report No. : **CTA25091901814**

Reviewed By : **Eric Wang**

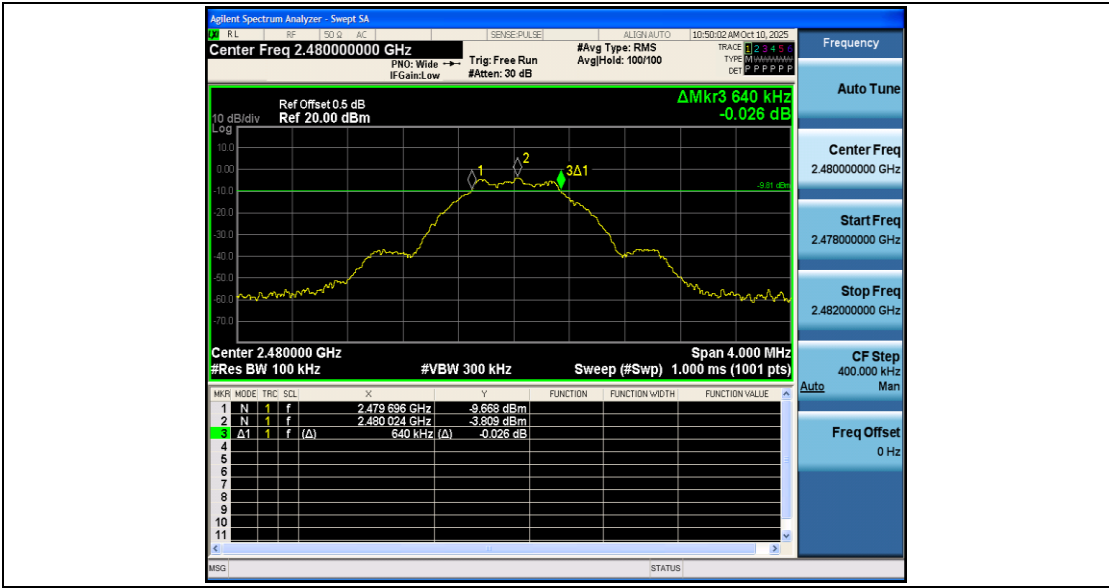
Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.636	2401.696	2402.332	0.5	PASS
		2440	0.640	2439.700	2440.340	0.5	PASS
		2480	0.640	2479.696	2480.336	0.5	PASS

Test Graphs



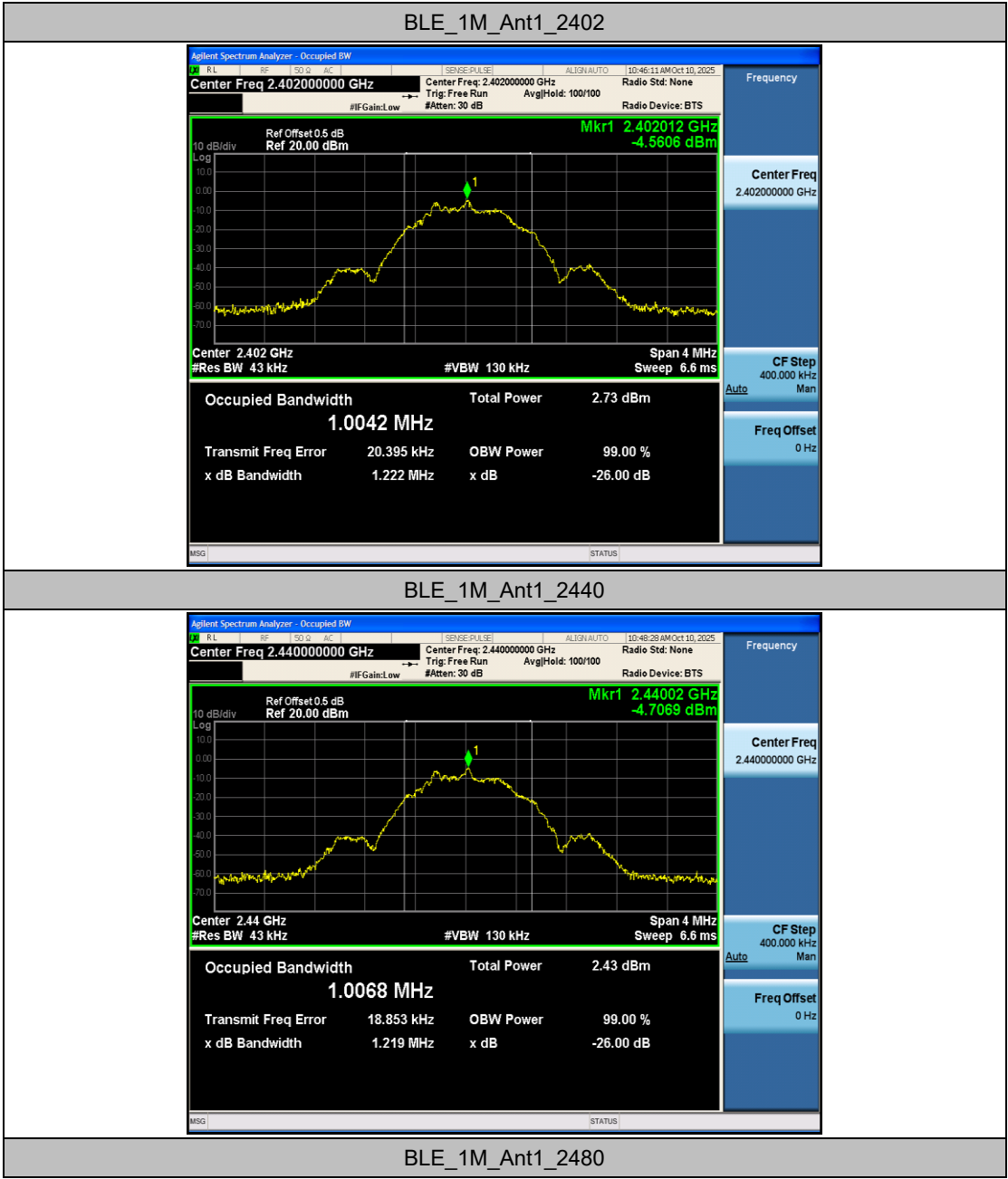


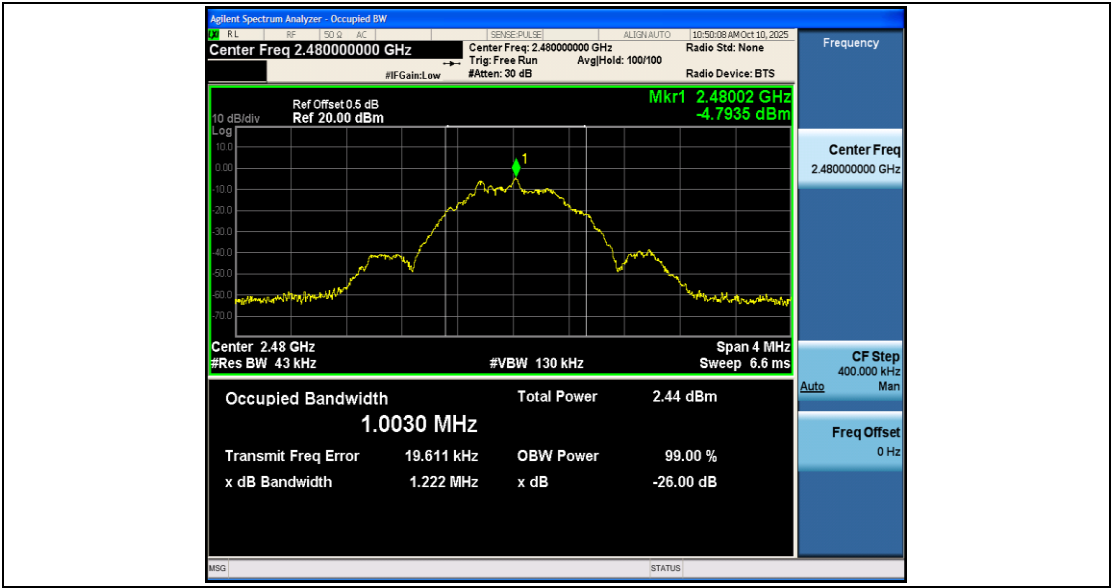
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0042	2401.5183	2402.5225	---	---
		2440	1.0068	2439.5155	2440.5223	---	---
		2480	1.0030	2479.5181	2480.5211	---	---

Test Graphs





Appendix C: Maximum conducted output power

Test Result Peak

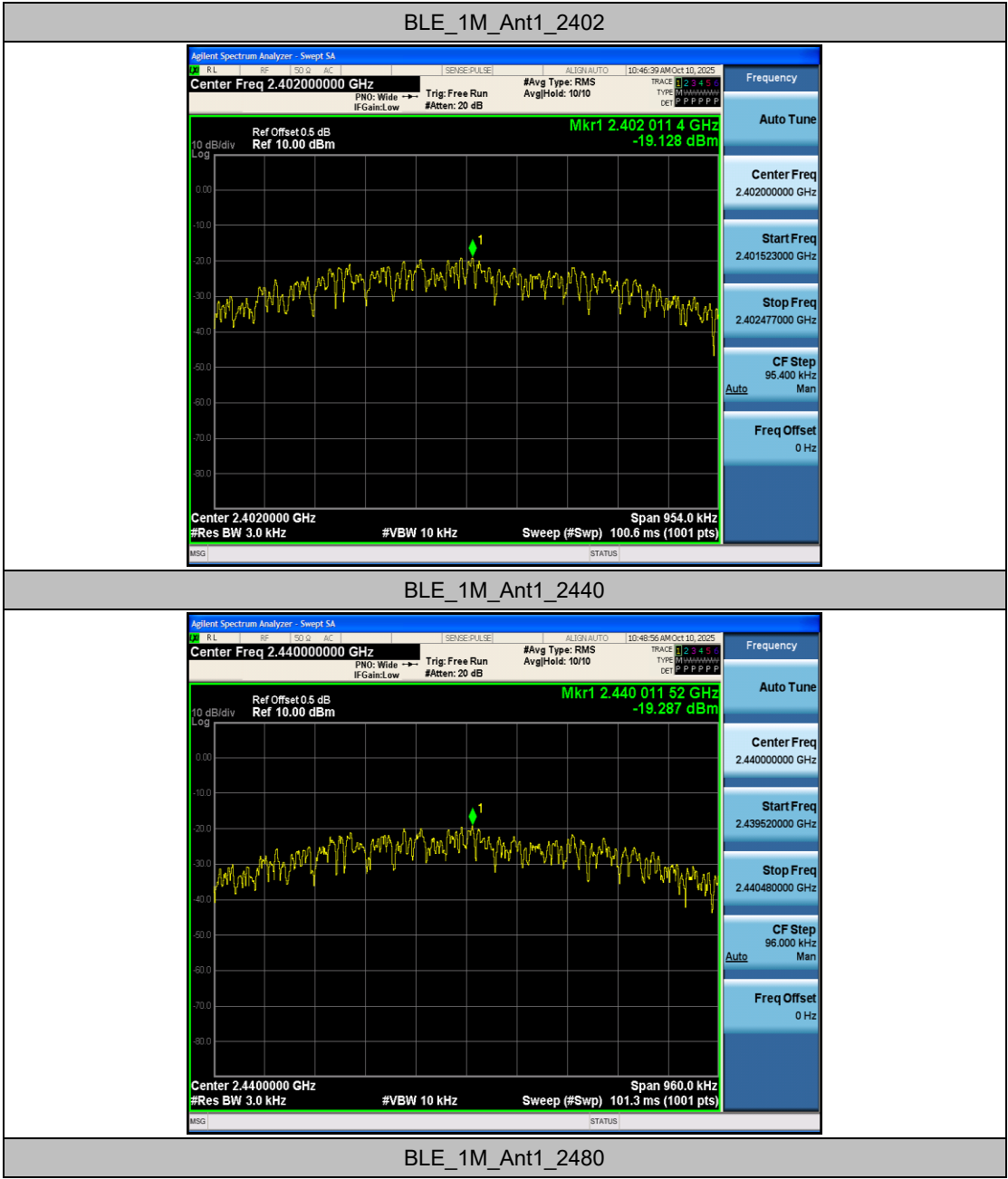
TestMode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-3.39	≤30	PASS
		2440	-3.65	≤30	PASS
		2480	-3.70	≤30	PASS

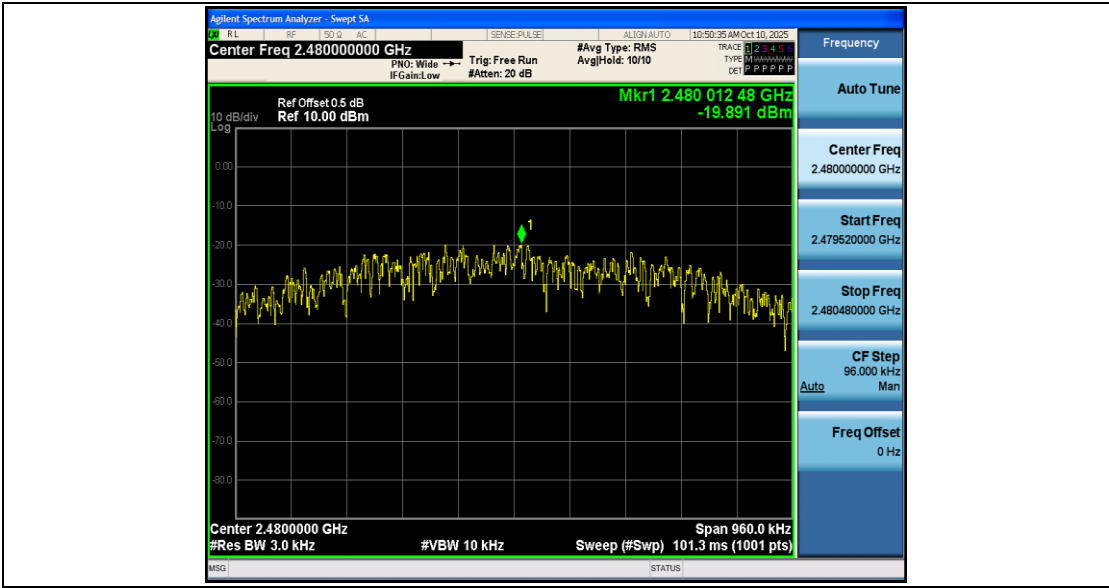
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-19.13	≤8.00	PASS
		2440	-19.29	≤8.00	PASS
		2480	-19.89	≤8.00	PASS

Test Graphs



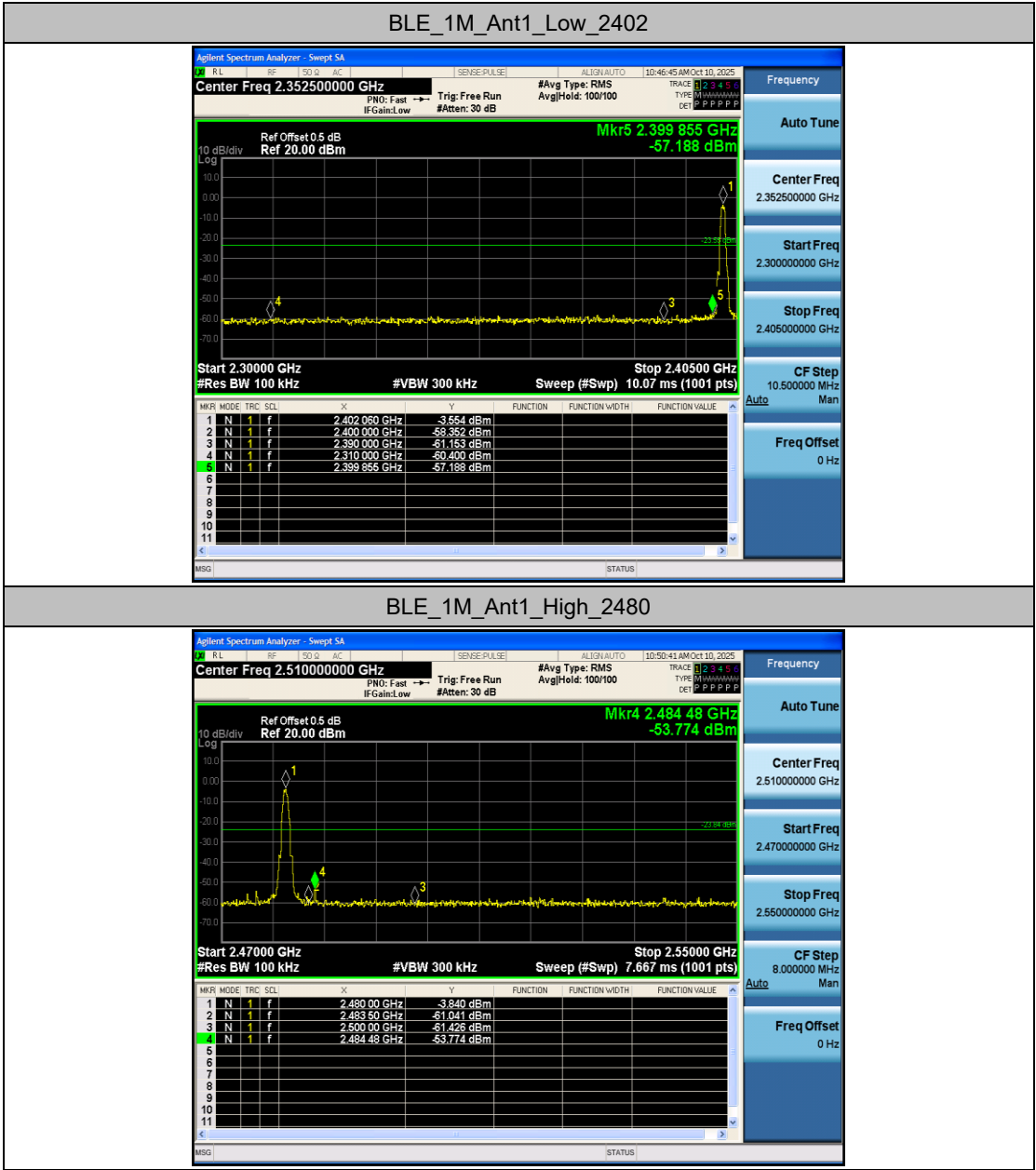


Appendix E: Band edge measurements

Test Result

TestMode	Antenna	Channel	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-3.55	-57.19	≤-23.55	PASS
		High	2480	-3.84	-53.77	≤-23.84	PASS

Test Graphs

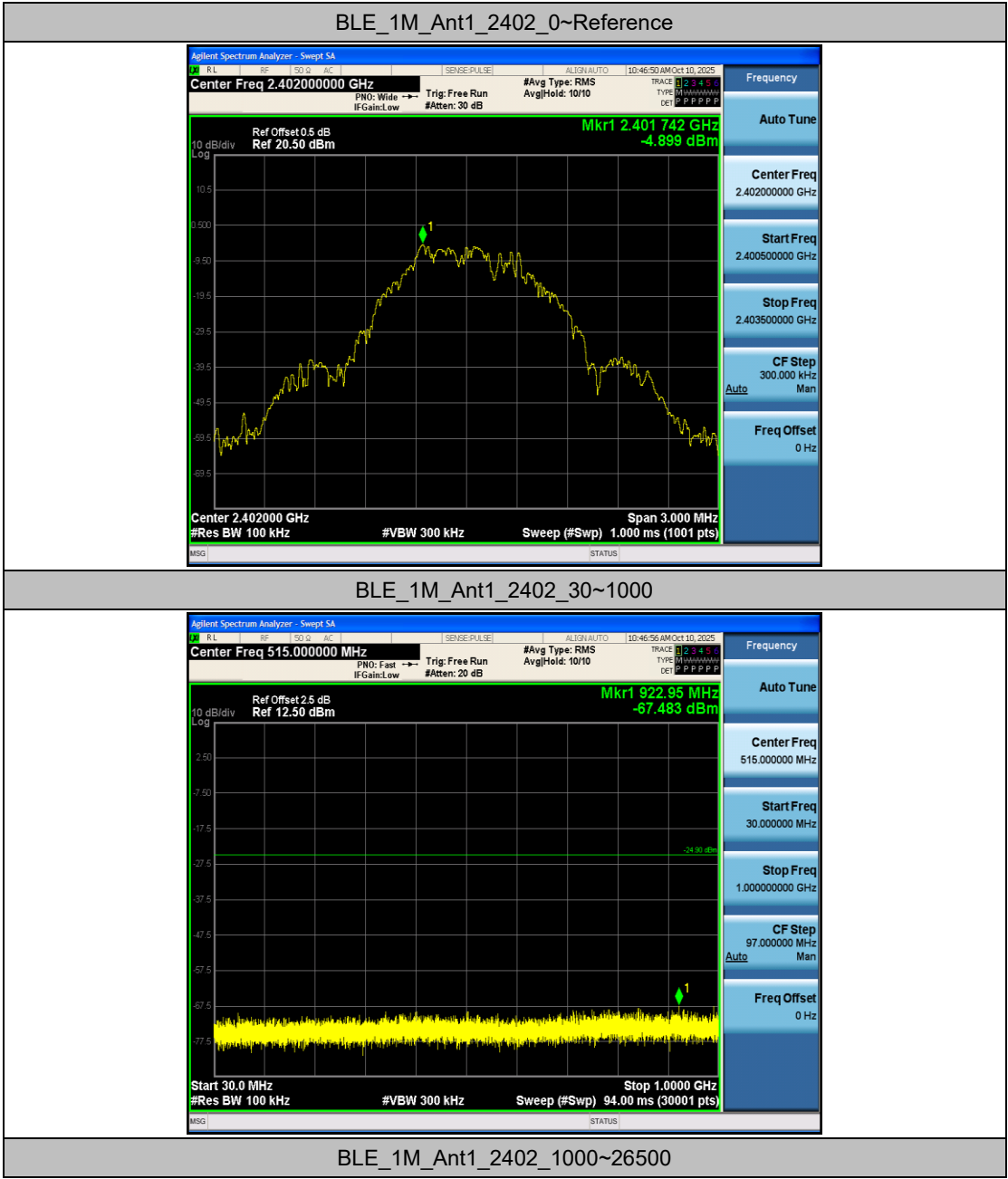


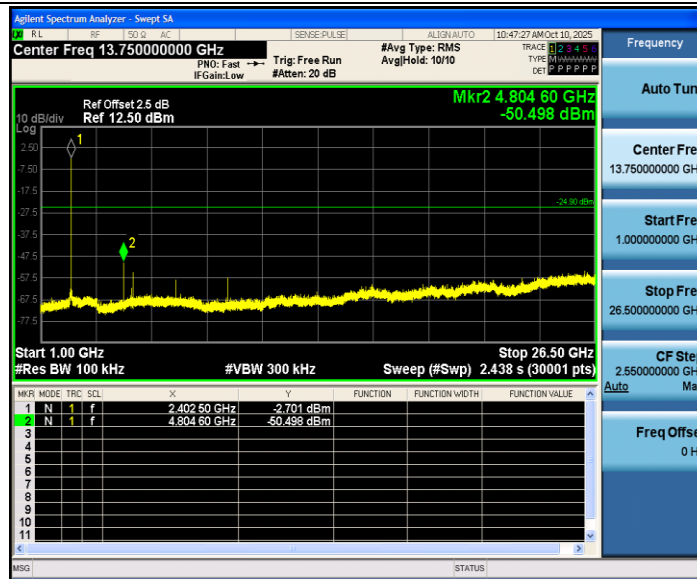
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-4.90	-4.90	---	PASS
			30~1000	-4.90	-67.48	≤-24.9	PASS
			1000~26500	-4.90	-50.5	≤-24.9	PASS
		2440	Reference	-4.91	-4.91	---	PASS
			30~1000	-4.91	-68.1	≤-24.91	PASS
			1000~26500	-4.91	-47.77	≤-24.91	PASS
		2480	Reference	-4.80	-4.80	---	PASS
			30~1000	-4.80	-66.79	≤-24.8	PASS
			1000~26500	-4.80	-44.63	≤-24.8	PASS

Test Graphs

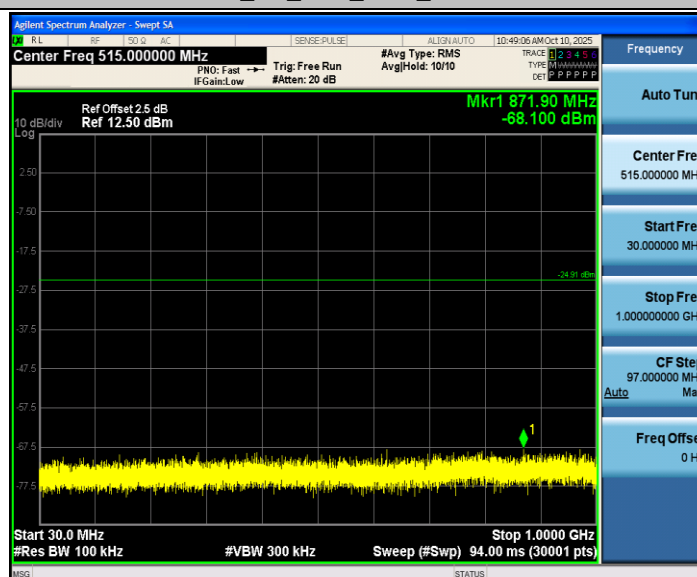




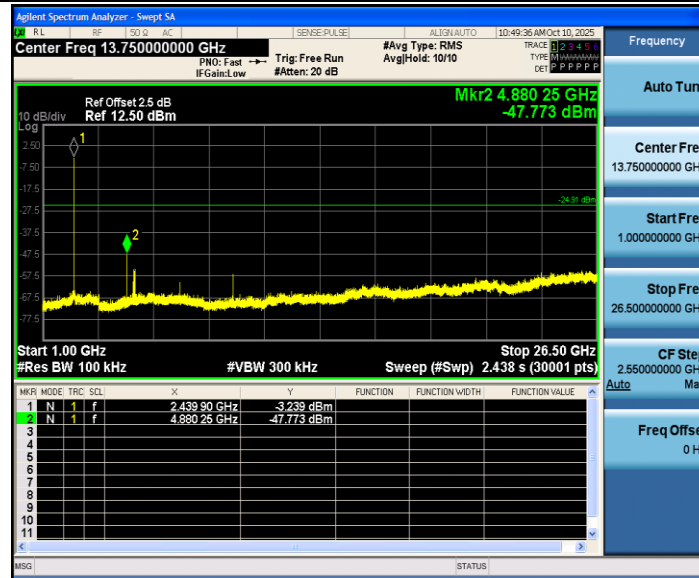
BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



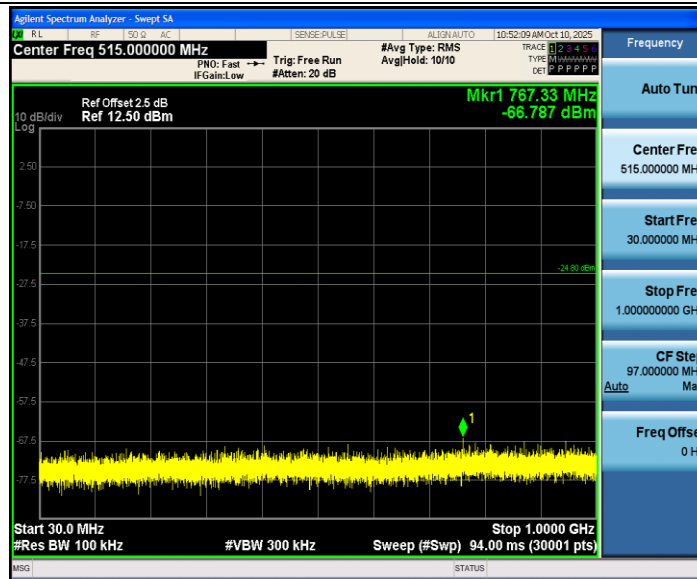
BLE_1M_Ant1_2440_1000~26500



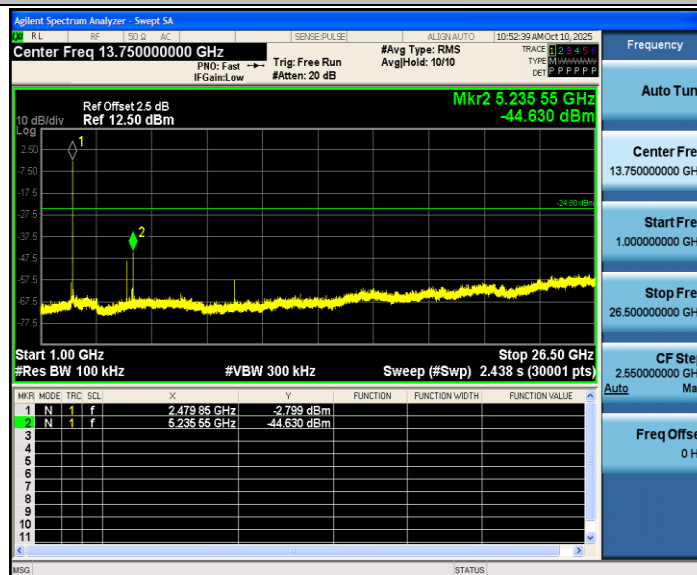
BLE_1M_Ant1_2480_0~Reference



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

