

FCC Appendix RF Test Data for BLE

FCC ID : 2BSTF-L-SIDEA2031

Company : Korllo (shanghai) Technology co., Ltd.

EUT : Wireless Bluetooth Earbuds

Model Number : L-Side A2031

Report No. : CTA25101301501

Reviewed By : Eric Wang

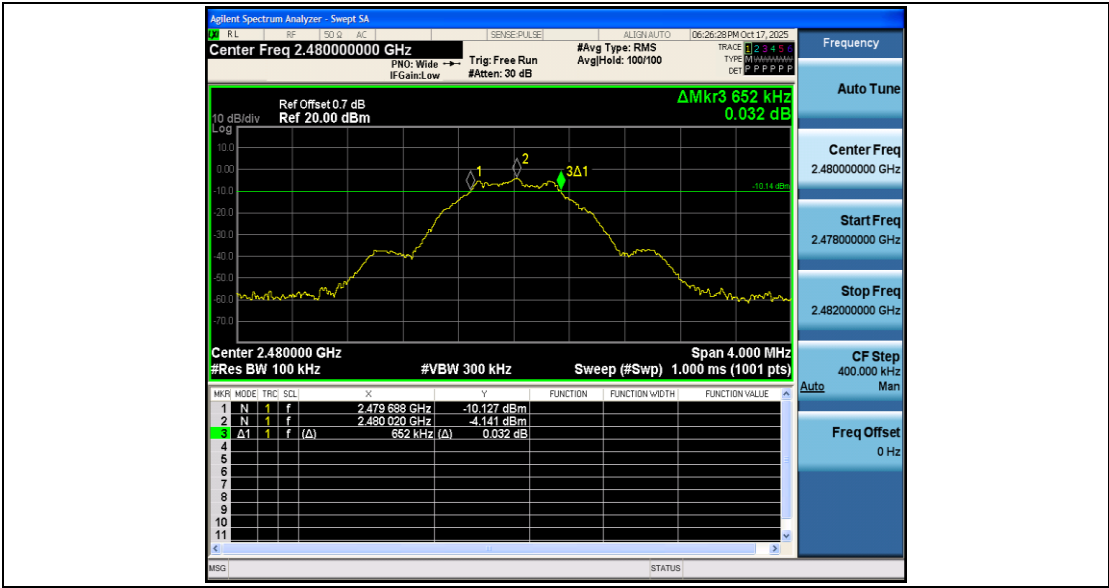
Appendix A: DTS Bandwidth

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	0.632	2439.700	2440.332	0.5	PASS
		2480	0.652	2479.688	2480.340	0.5	PASS

Test Graphs



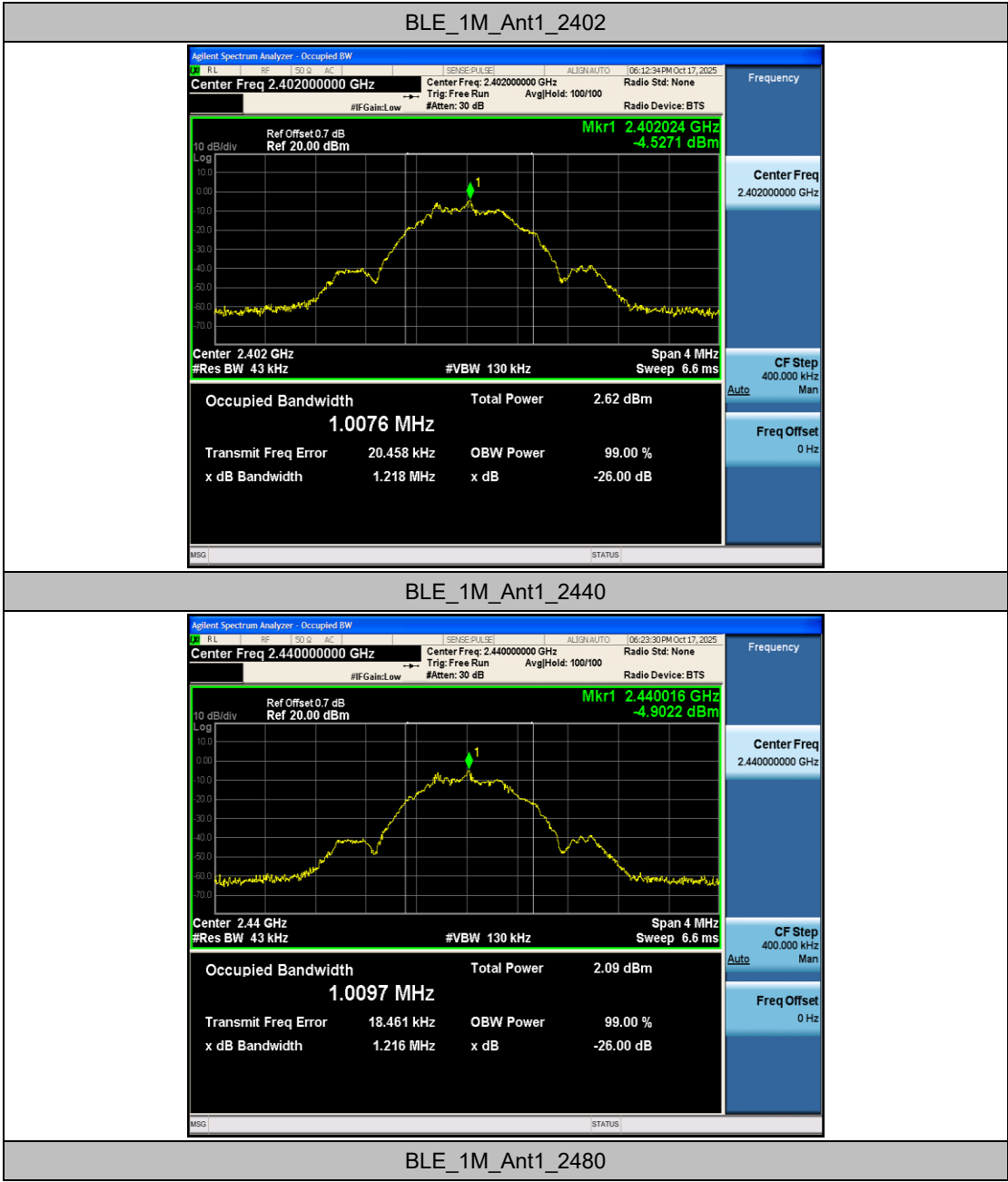


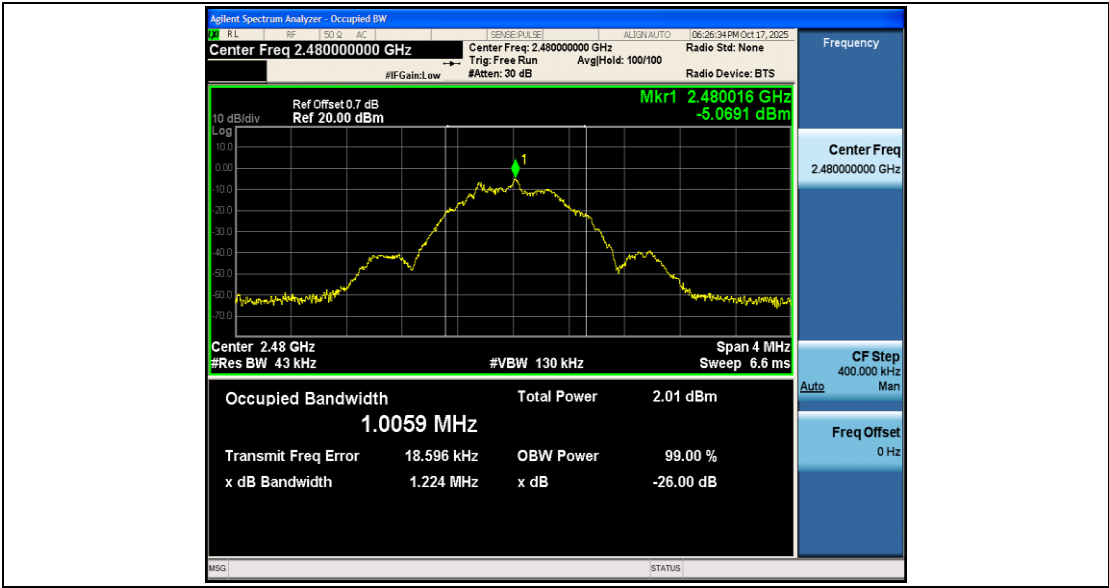
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0076	2401.5167	2402.5243	---	---
		2440	1.0097	2439.5136	2440.5233	---	---
		2480	1.0059	2479.5157	2480.5216	---	---

Test Graphs





Appendix C: Maximum conducted output power

Test Result Peak

Left:

TestMode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-3.32	≤30	PASS
		2440	-3.74	≤30	PASS
		2480	-3.93	≤30	PASS

Right:

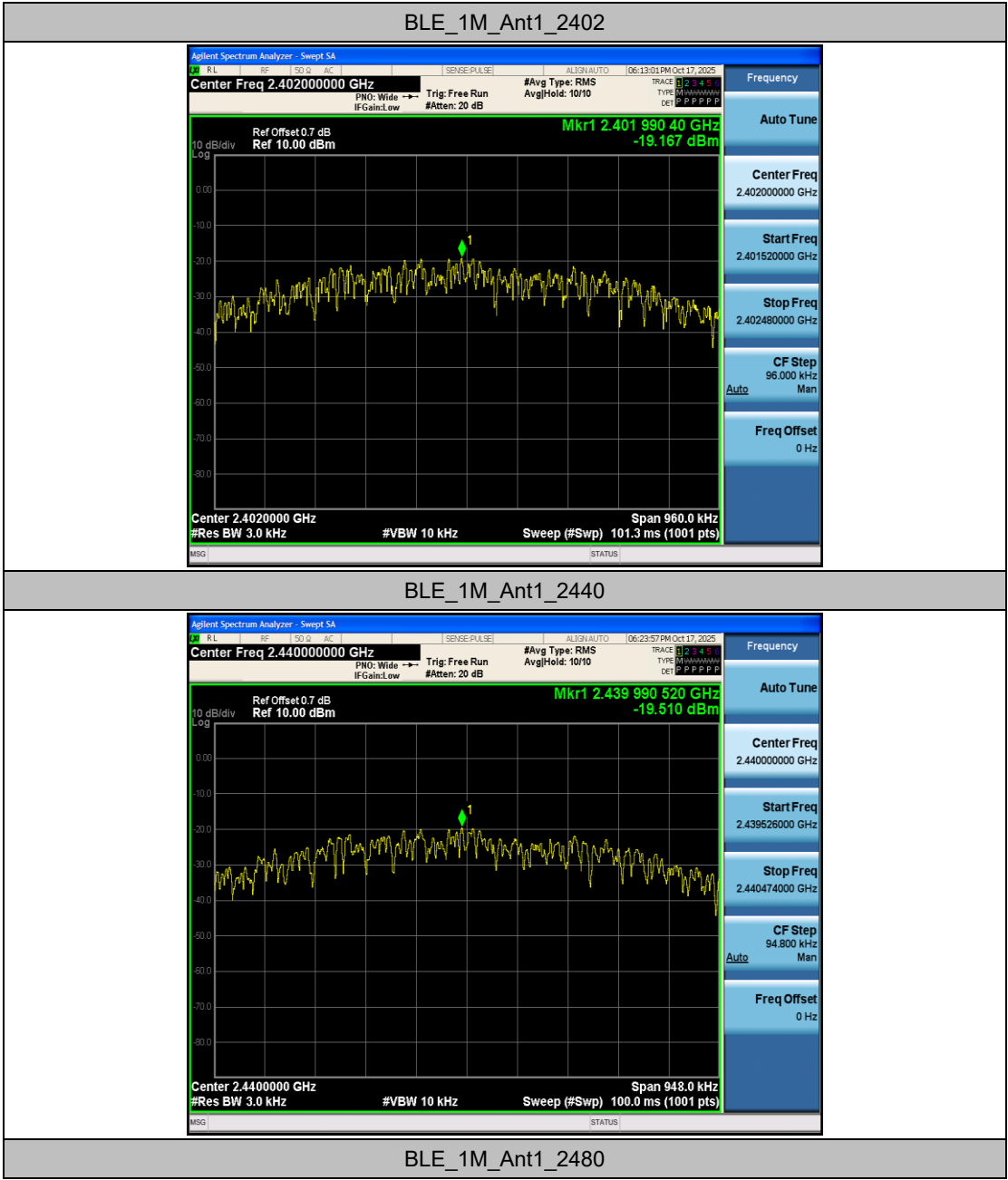
TestMode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-3.33	≤30	PASS
		2440	-3.77	≤30	PASS
		2480	-3.95	≤30	PASS

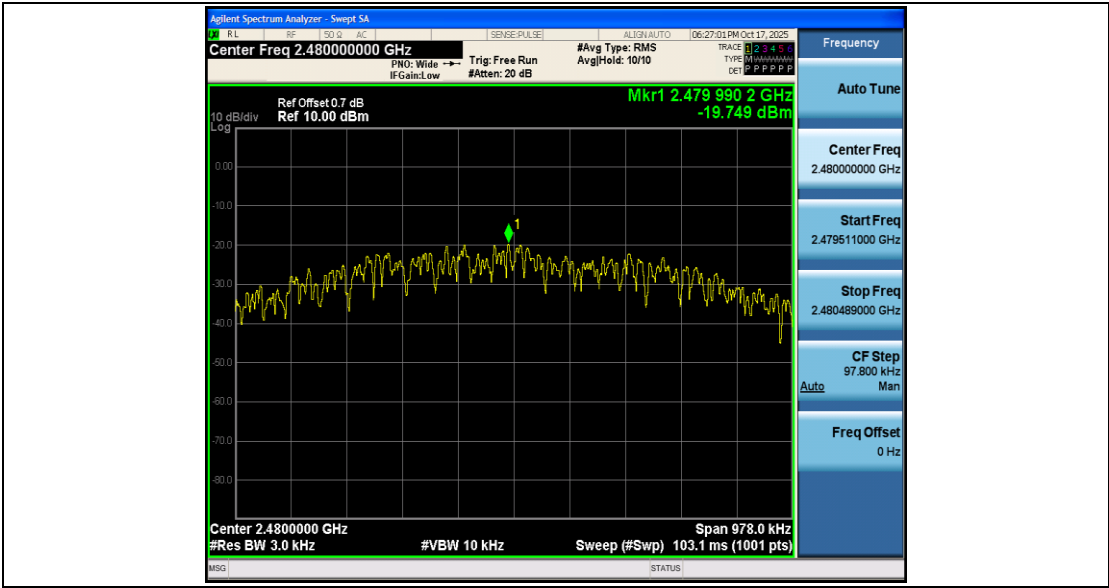
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-19.17	≤8.00	PASS
		2440	-19.51	≤8.00	PASS
		2480	-19.75	≤8.00	PASS

Test Graphs



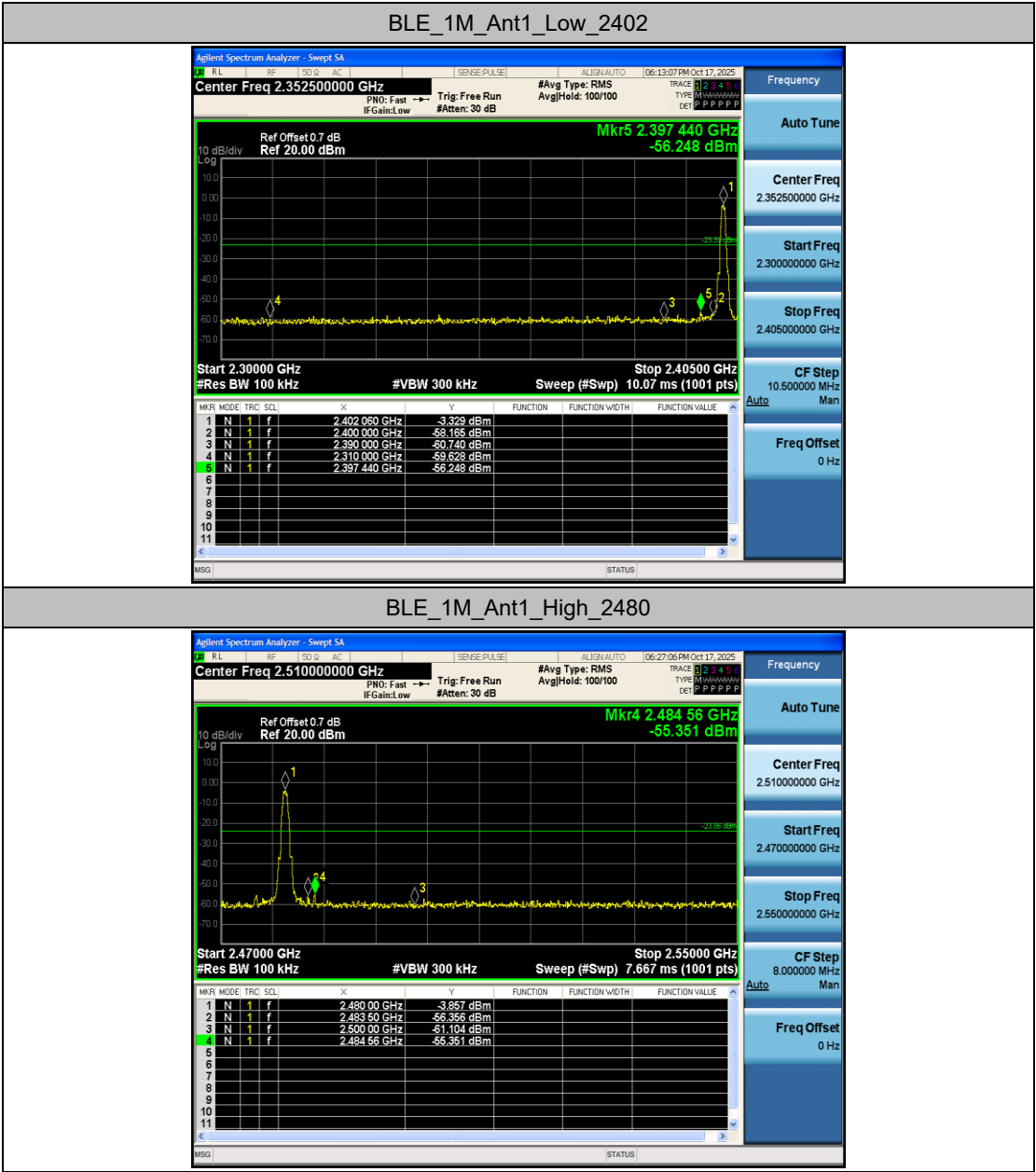


Appendix E: Band edge measurements

Test Result

TestMode	Antenna	Channel	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-3.33	-56.25	≤-23.33	PASS
		High	2480	-3.86	-55.35	≤-23.86	PASS

Test Graphs

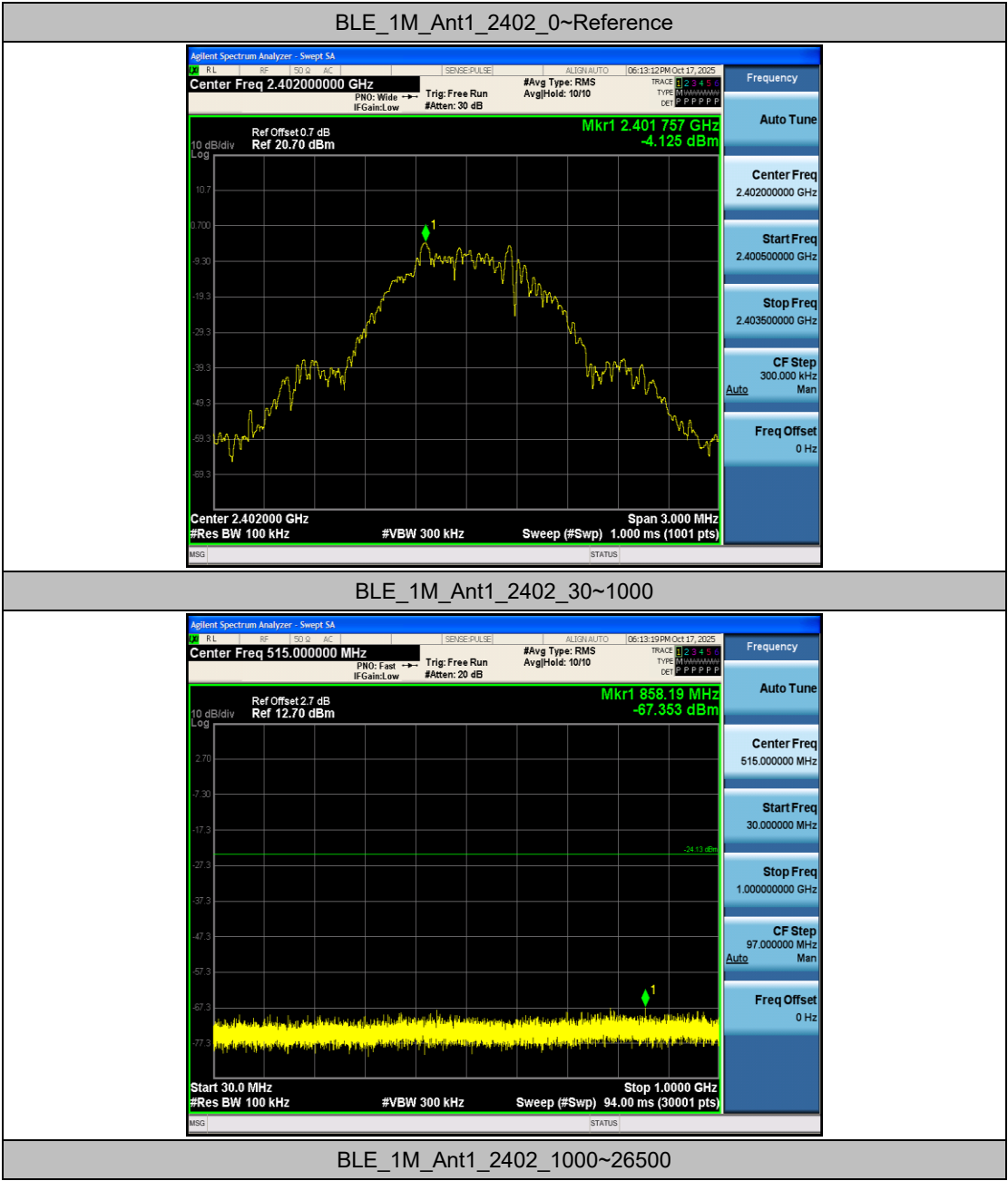


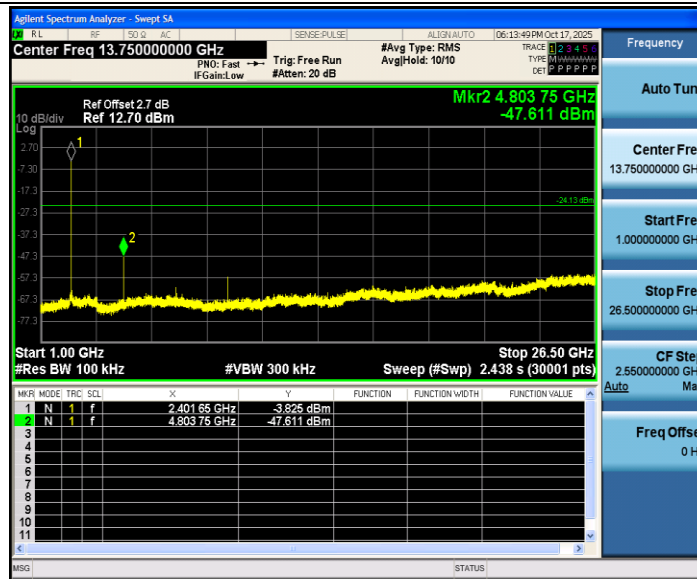
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-4.13	-4.13	---	PASS
			30~1000	-4.13	-67.35	≤-24.13	PASS
			1000~26500	-4.13	-47.61	≤-24.13	PASS
		2440	Reference	-5.18	-5.18	---	PASS
			30~1000	-5.18	-68.21	≤-25.18	PASS
			1000~26500	-5.18	-47.76	≤-25.18	PASS
		2480	Reference	-5.85	-5.85	---	PASS
			30~1000	-5.85	-67.14	≤-25.85	PASS
			1000~26500	-5.85	-50.4	≤-25.85	PASS

Test Graphs

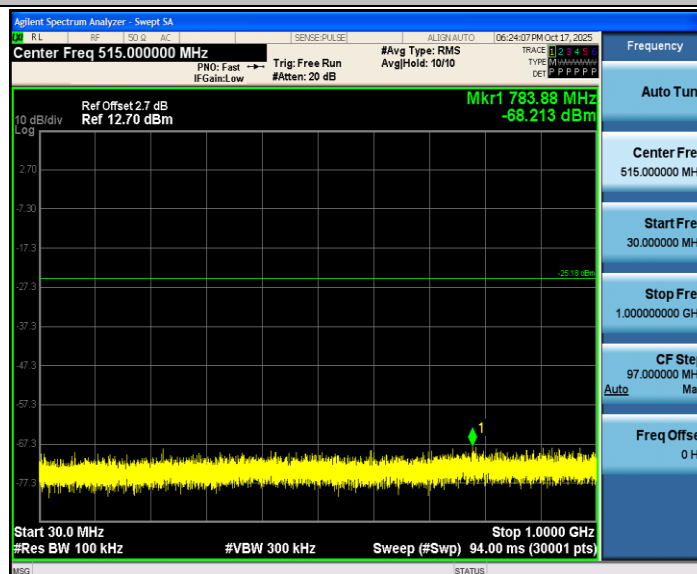




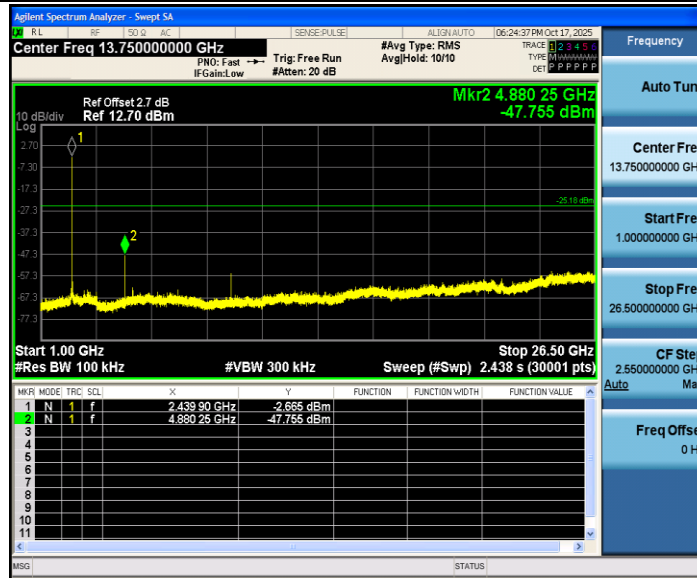
BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



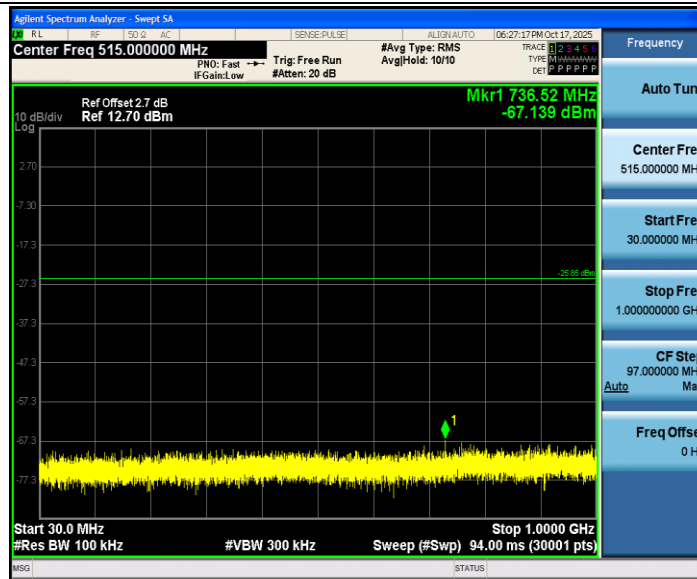
BLE_1M_Ant1_2440_1000~26500



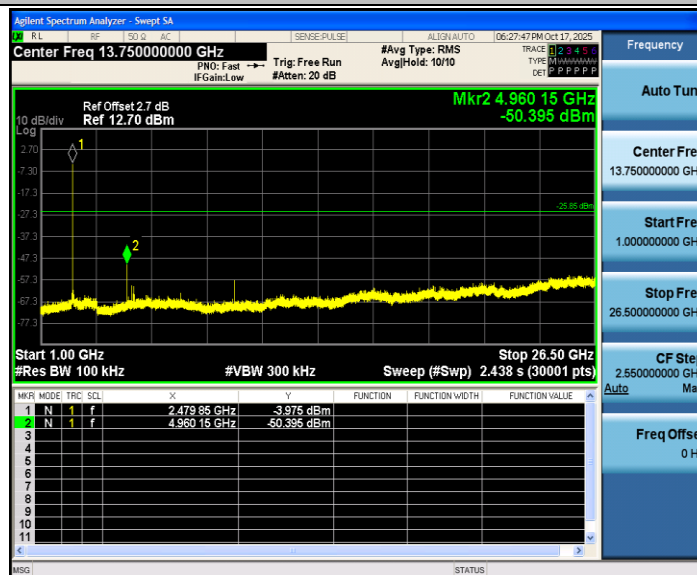
BLE_1M_Ant1_2480_0~Reference



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

