

Appendix RF Test Data for BLE

FCC ID : 2BRMD-S200

Company : Guangzhou Lotson International Trading Co., Ltd.

EUT : Scent Diffuser

Model Number : S200

Report No. : CTA25062100501

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	0.652	2401.688	2402.340	0.5	PASS
		2440	0.636	2439.696	2440.332	0.5	PASS
		2480	0.640	2479.696	2480.336	0.5	PASS

Test Graphs



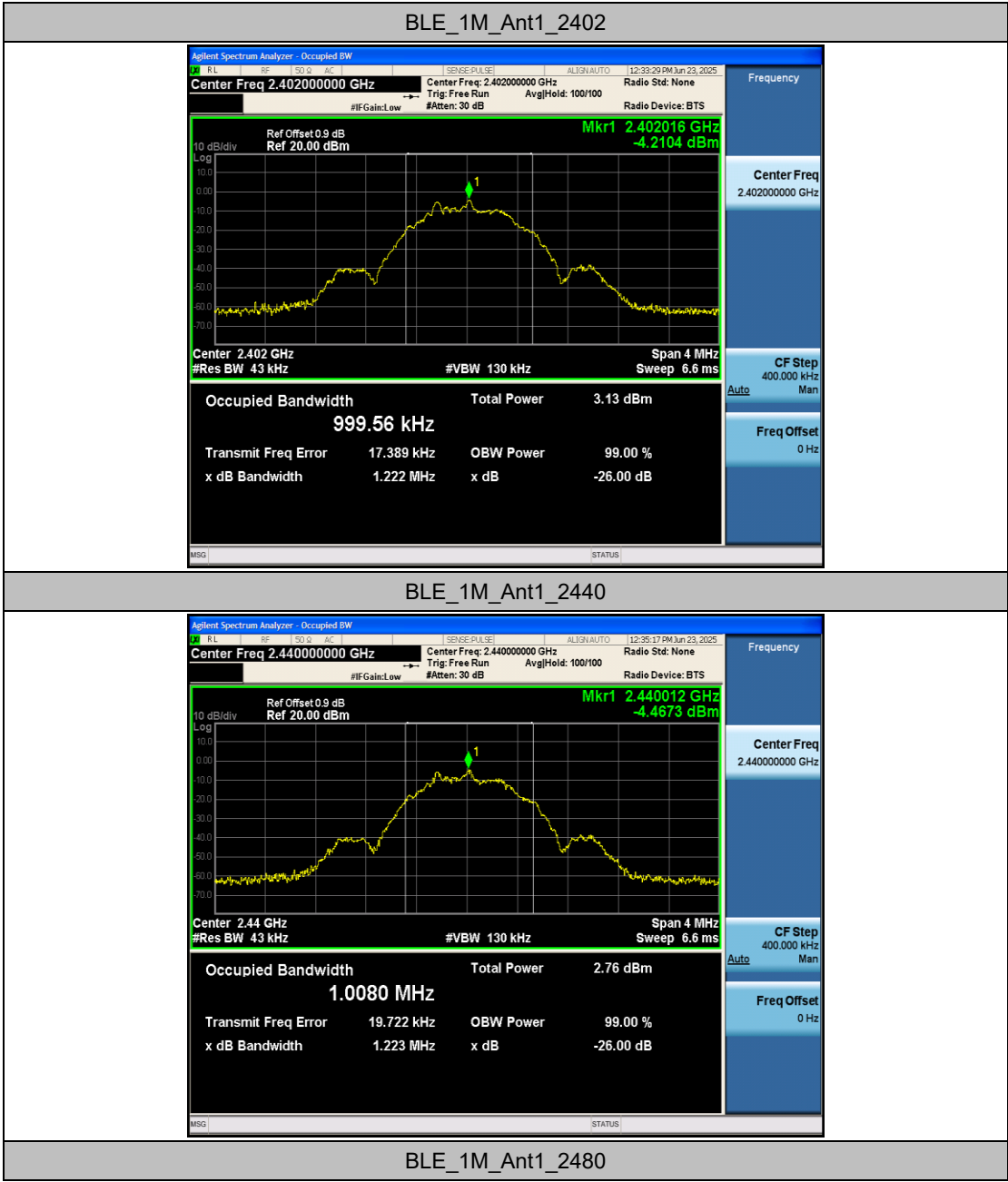


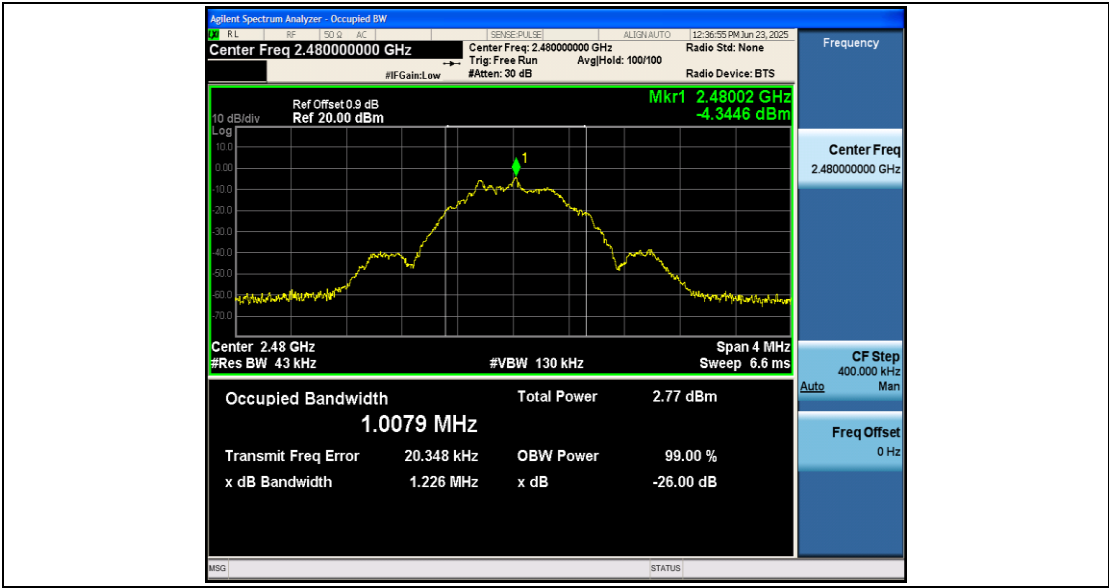
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.99956	2401.5176	2402.5172	---	---
		2440	1.0080	2439.5157	2440.5237	---	---
		2480	1.0079	2479.5164	2480.5243	---	---

Test Graphs





Appendix C: Maximum conducted output power

Test Result Peak

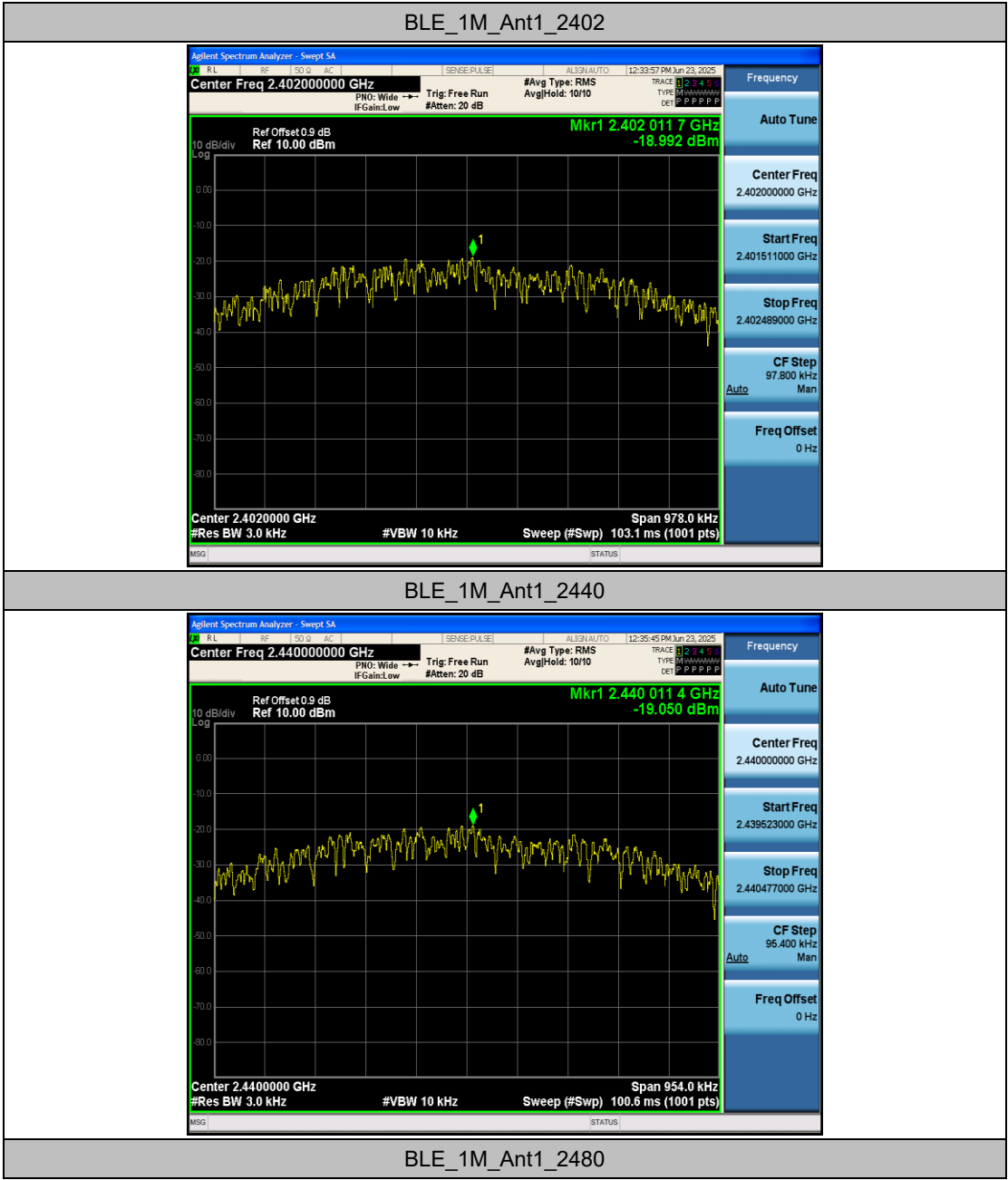
TestMode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-3.04	≤30	PASS
		2440	-3.30	≤30	PASS
		2480	-3.29	≤30	PASS

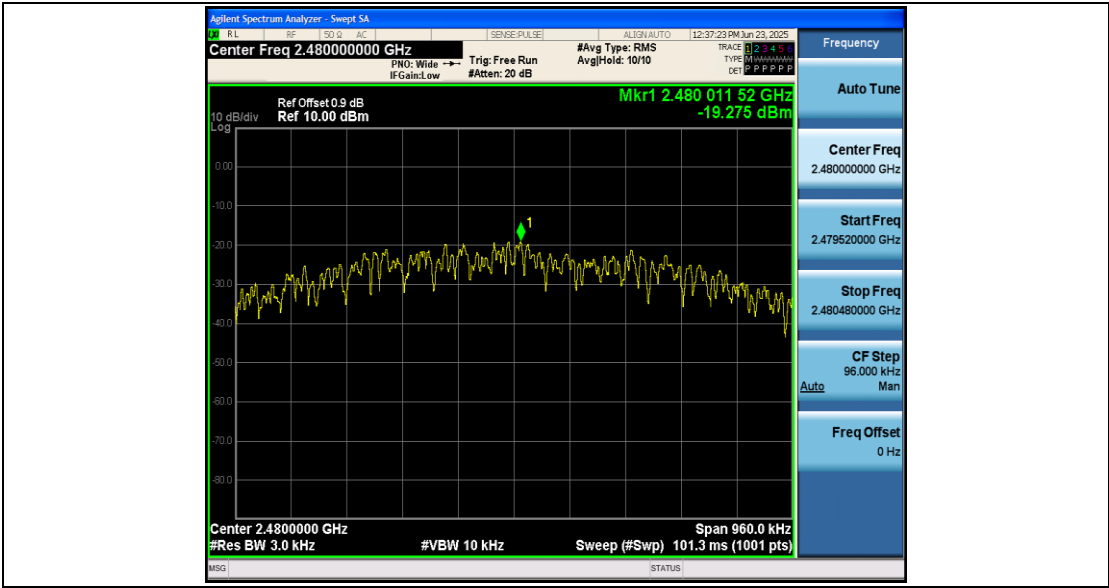
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-18.99	≤8.00	PASS
		2440	-19.05	≤8.00	PASS
		2480	-19.28	≤8.00	PASS

Test Graphs



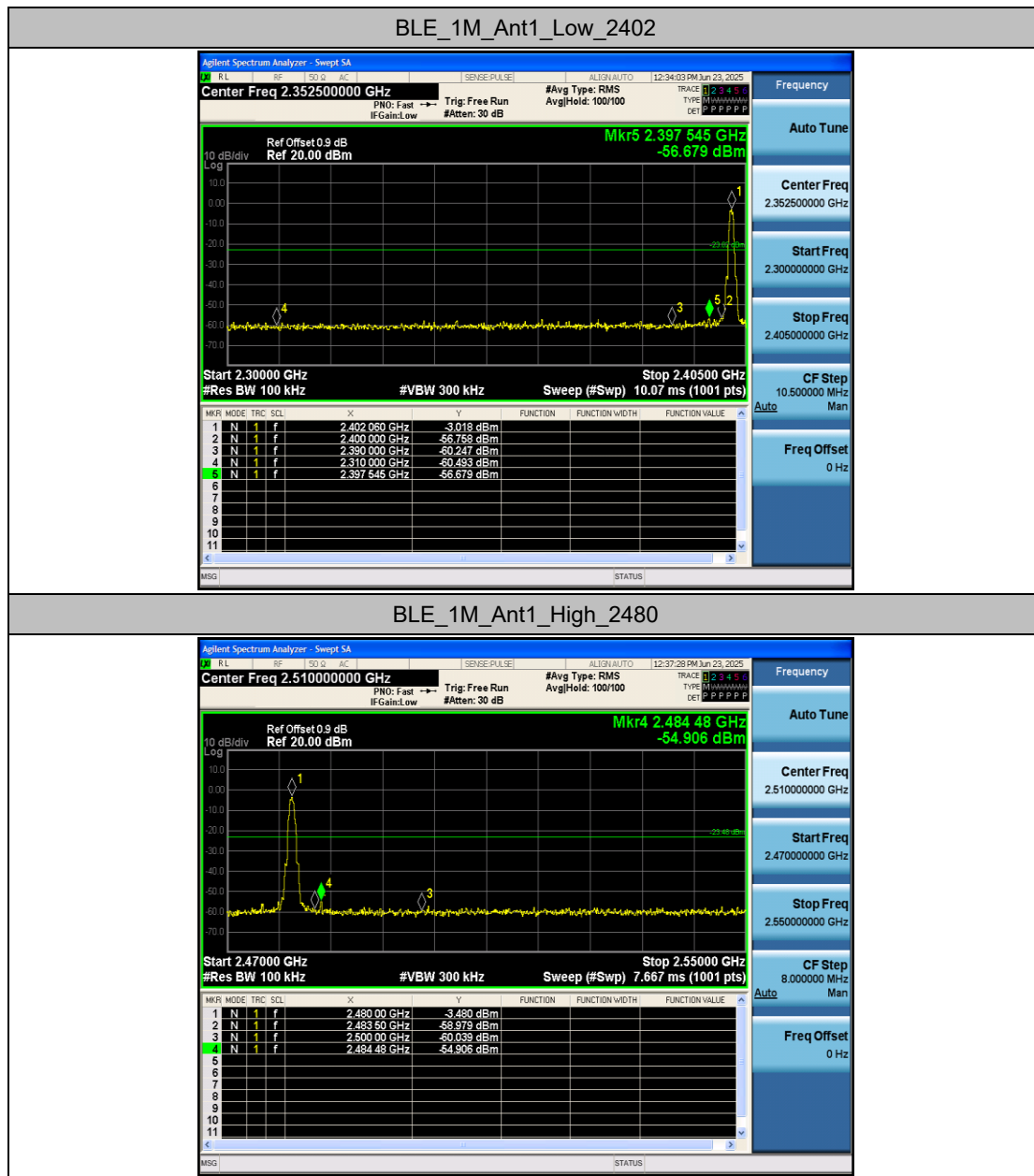


Appendix E: Band edge measurements

Test Result

TestMode	Antenna	Channel	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-3.02	-56.68	≤-23.02	PASS
		High	2480	-3.48	-54.91	≤-23.48	PASS

Test Graphs

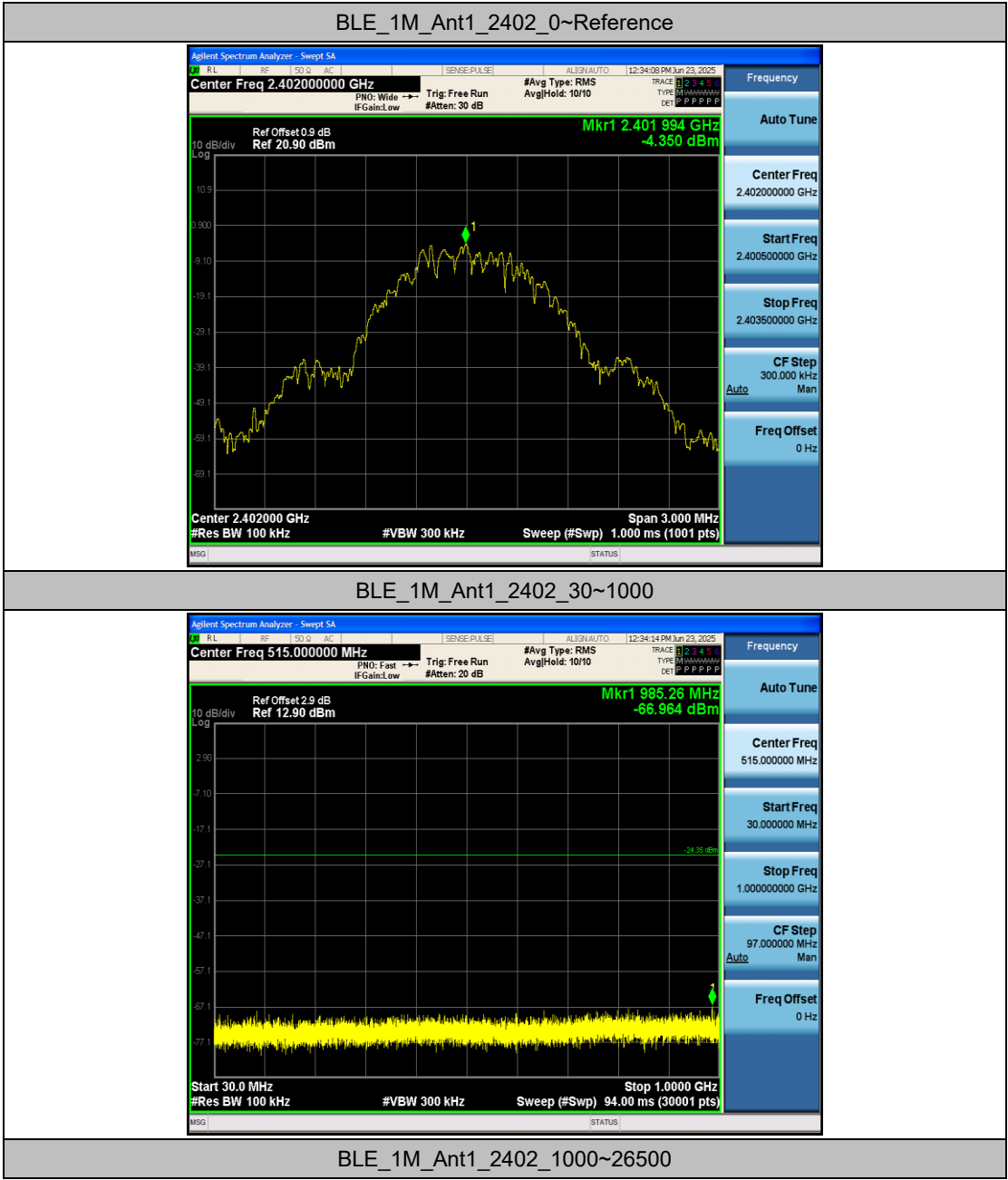


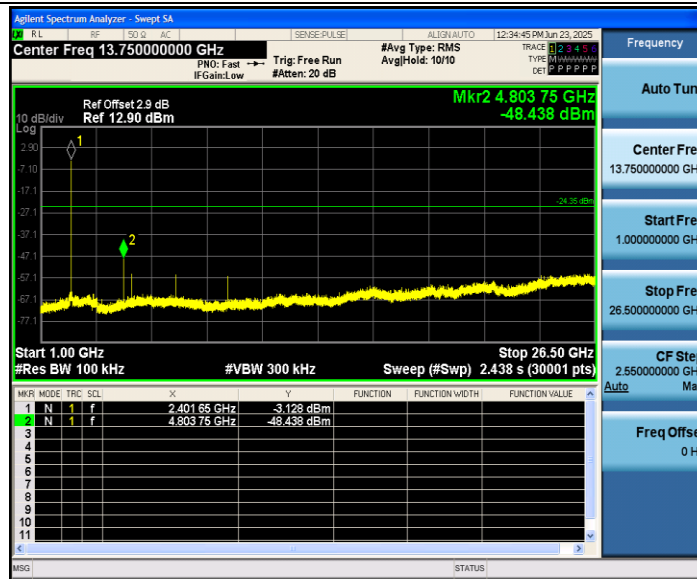
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-4.35	-4.35	---	PASS
			30~1000	-4.35	-66.96	≤-24.35	PASS
			1000~26500	-4.35	-48.44	≤-24.35	PASS
		2440	Reference	-5.55	-5.55	---	PASS
			30~1000	-5.55	-67.96	≤-25.55	PASS
			1000~26500	-5.55	-46.87	≤-25.55	PASS
		2480	Reference	-5.03	-5.03	---	PASS
			30~1000	-5.03	-67	≤-25.03	PASS
			1000~26500	-5.03	-47.03	≤-25.03	PASS

Test Graphs

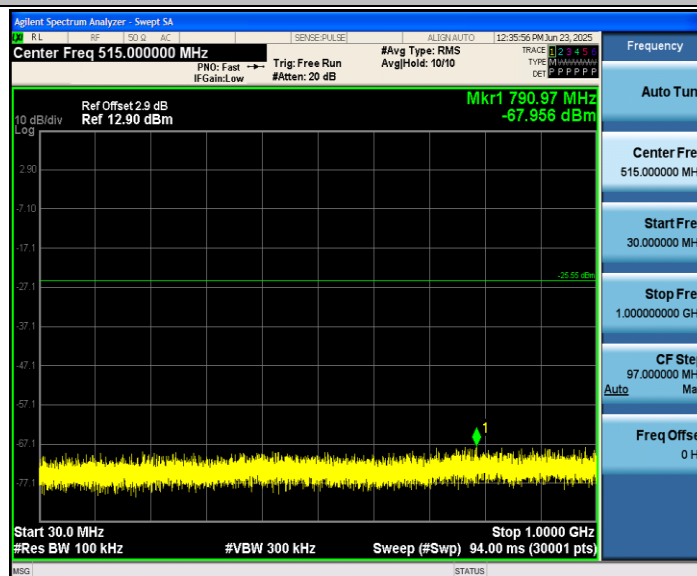




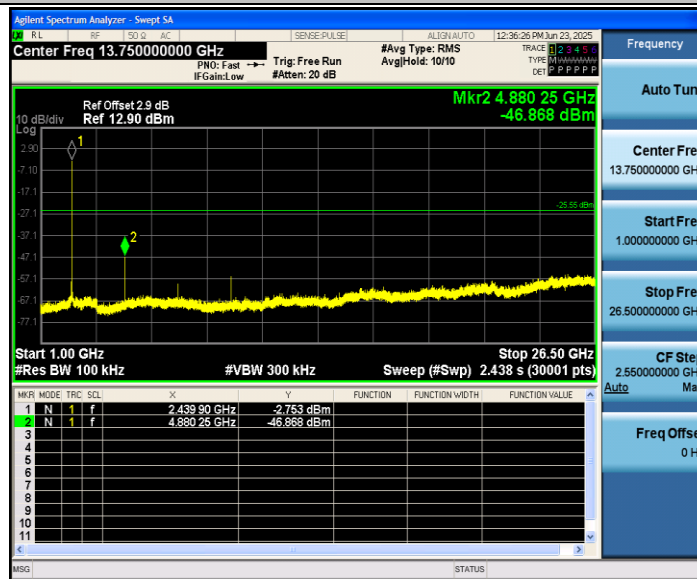
BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



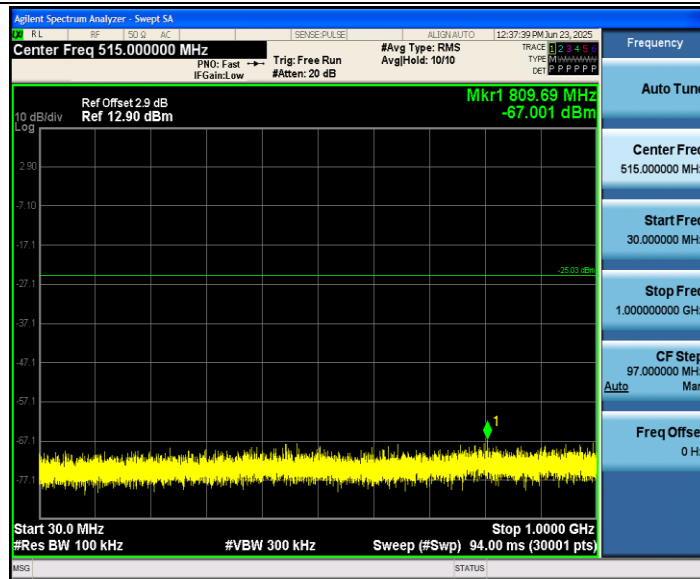
BLE_1M_Ant1_2440_1000~26500



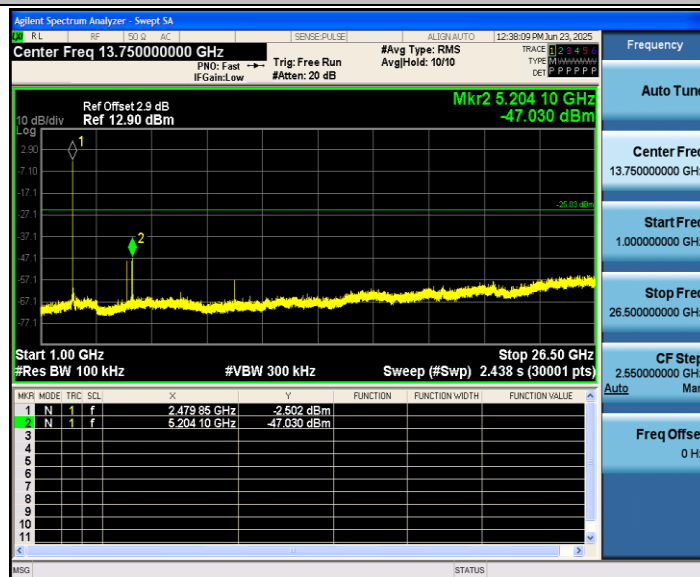
BLE_1M_Ant1_2480_0~Reference



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

