

FCC Appendix RF Test Data for BLE

FCC ID : 2AYDA-6000AF

Company : Guangzhou Tang Mei Environmental Protection
Technology Co., Ltd.

EUT : Aroma Diffuser

Model Number : 6000AF

Report No. : CTA25112400701

Reviewed By : Eric Wang

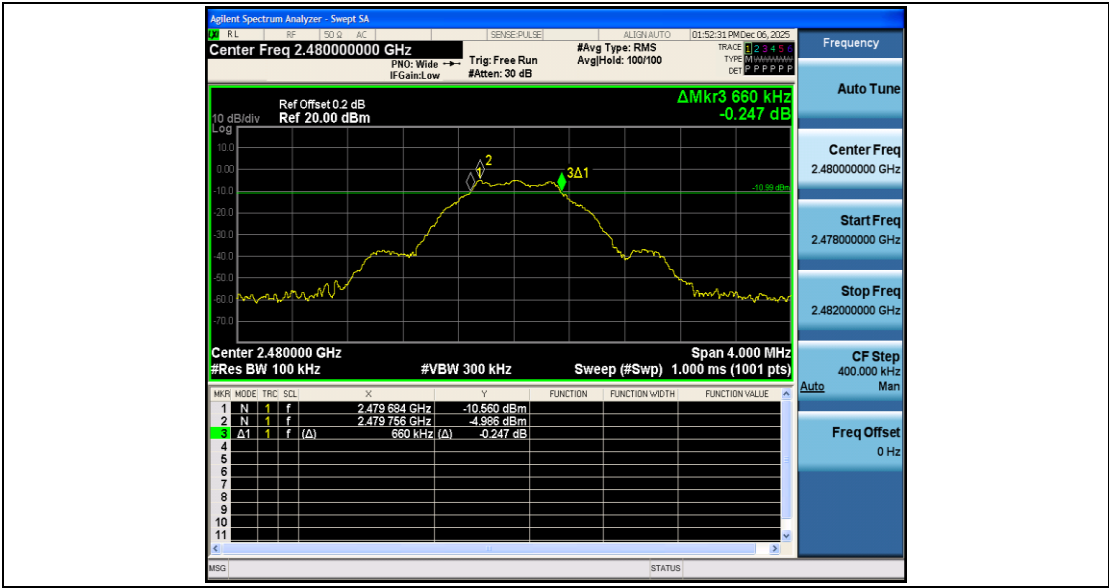
Appendix A: DTS Bandwidth

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	0.648	2439.688	2440.336	0.5	PASS
		2480	0.660	2479.684	2480.344	0.5	PASS

Test Graphs



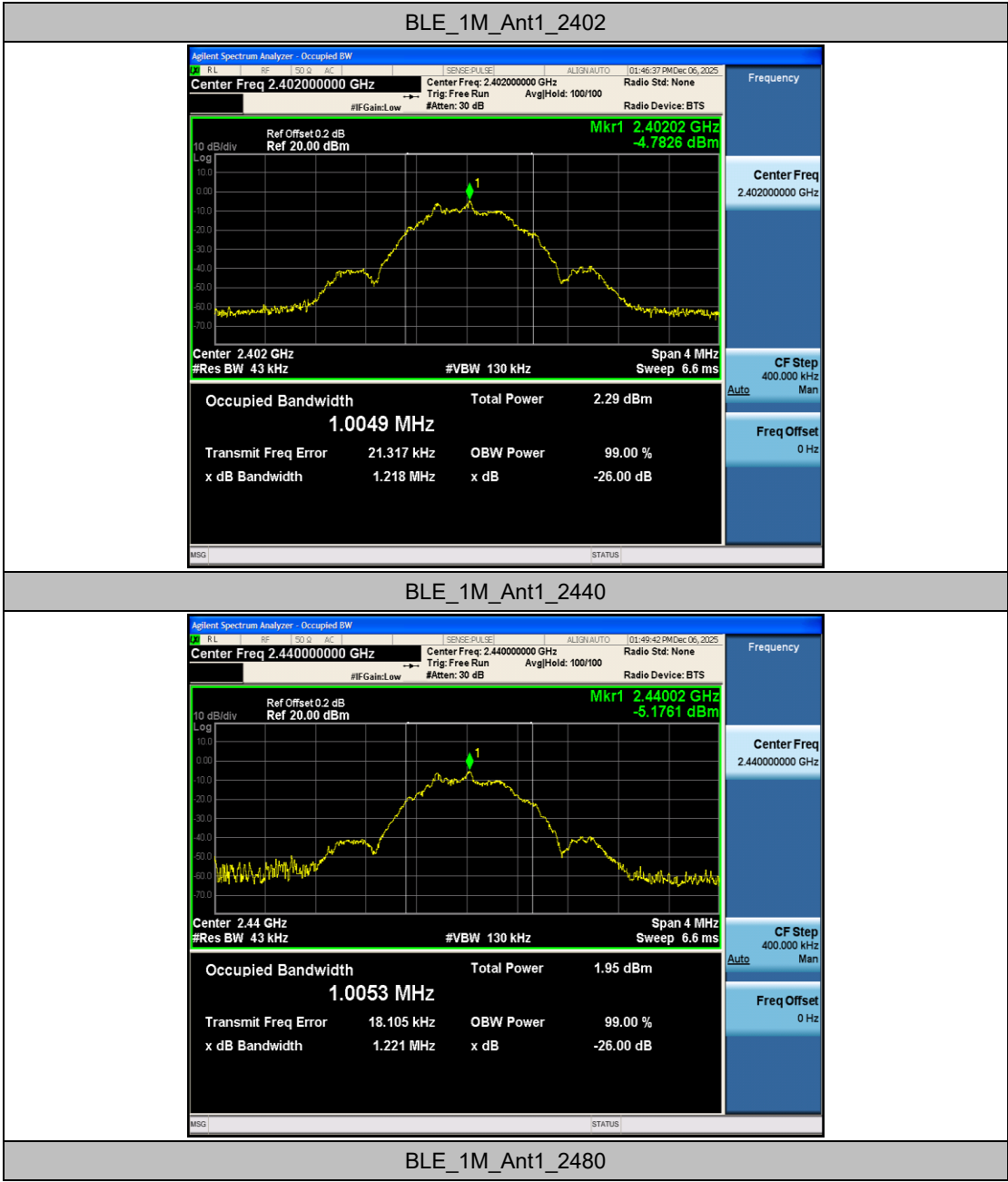


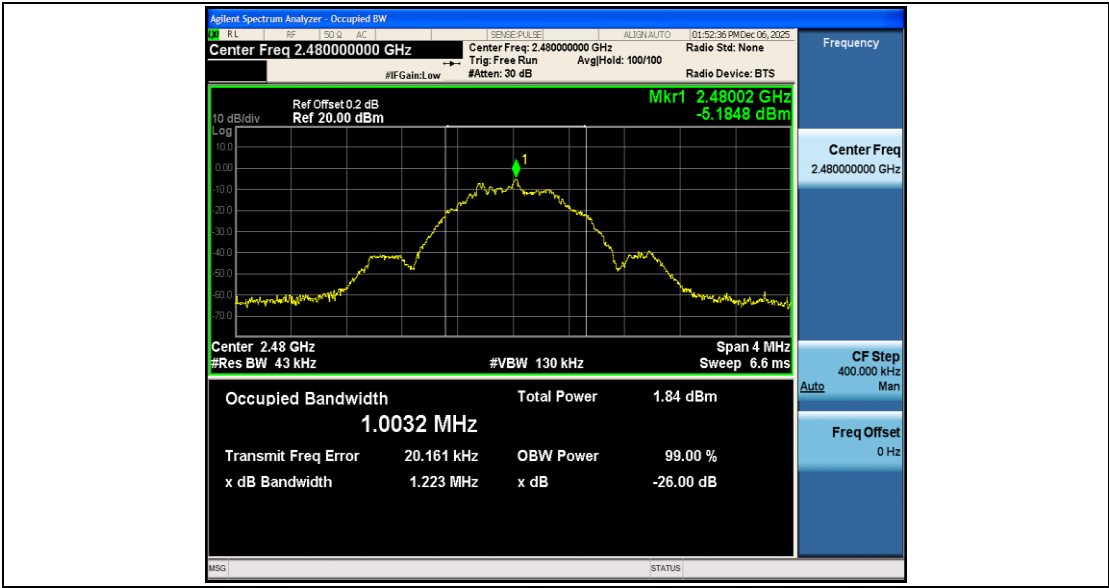
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0049	2401.5189	2402.5238	---	---
		2440	1.0053	2439.5155	2440.5208	---	---
		2480	1.0032	2479.5186	2480.5218	---	---

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	-3.74	≤30	PASS
		2440	-3.94	≤30	PASS
		2480	-4.14	≤30	PASS

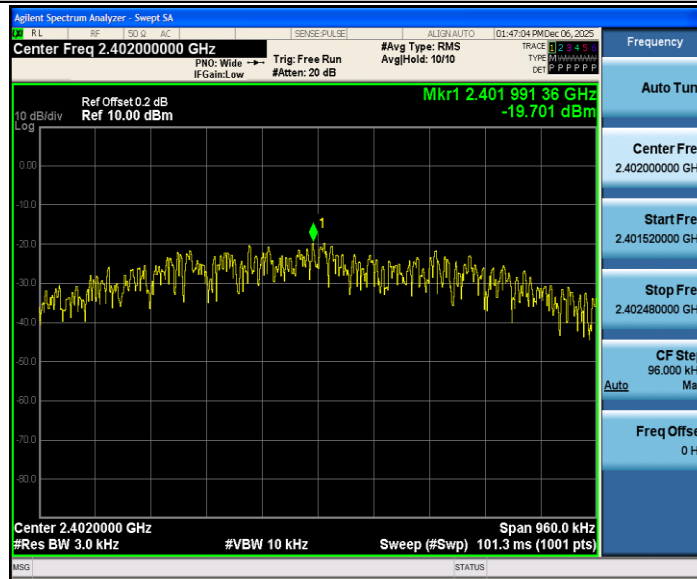
Appendix D: Maximum power spectral density

Test Result

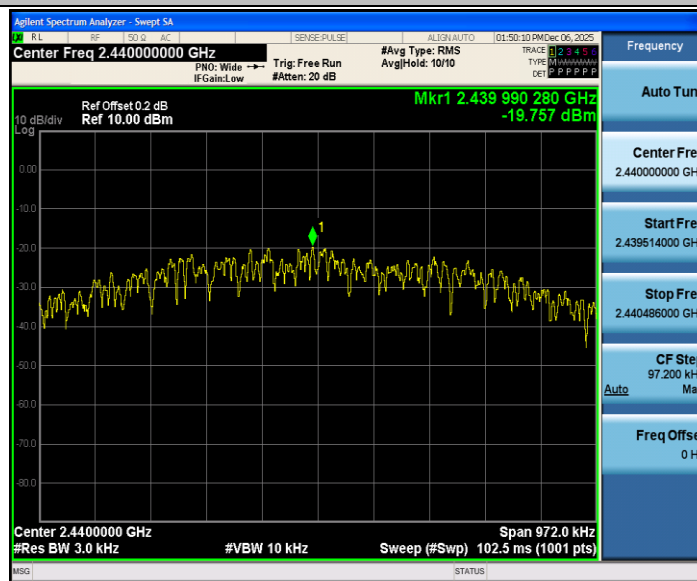
TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-19.70	≤8.00	PASS
		2440	-19.76	≤8.00	PASS
		2480	-19.81	≤8.00	PASS

Test Graphs

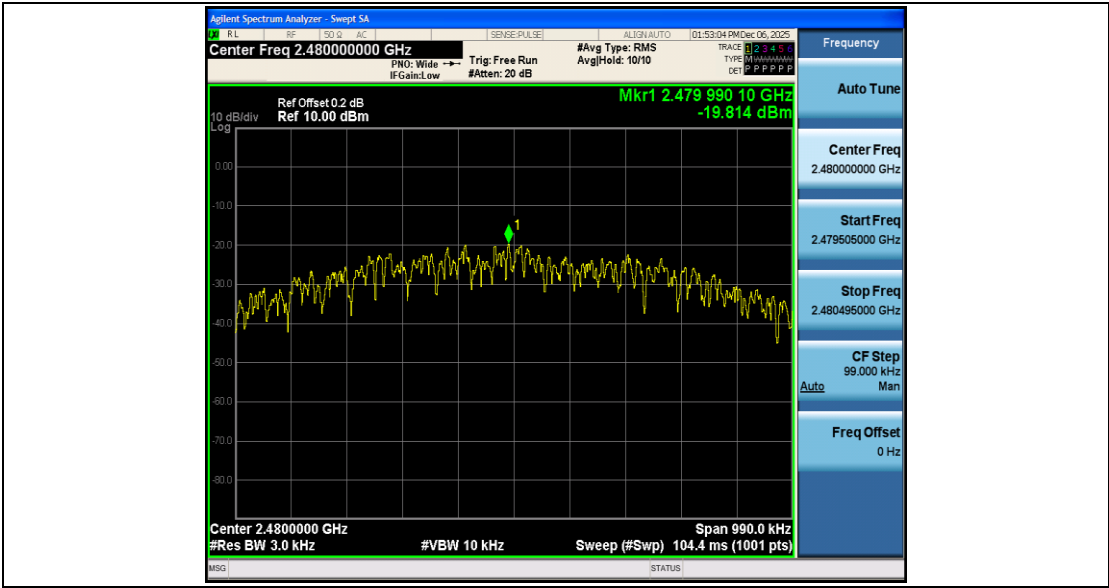
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

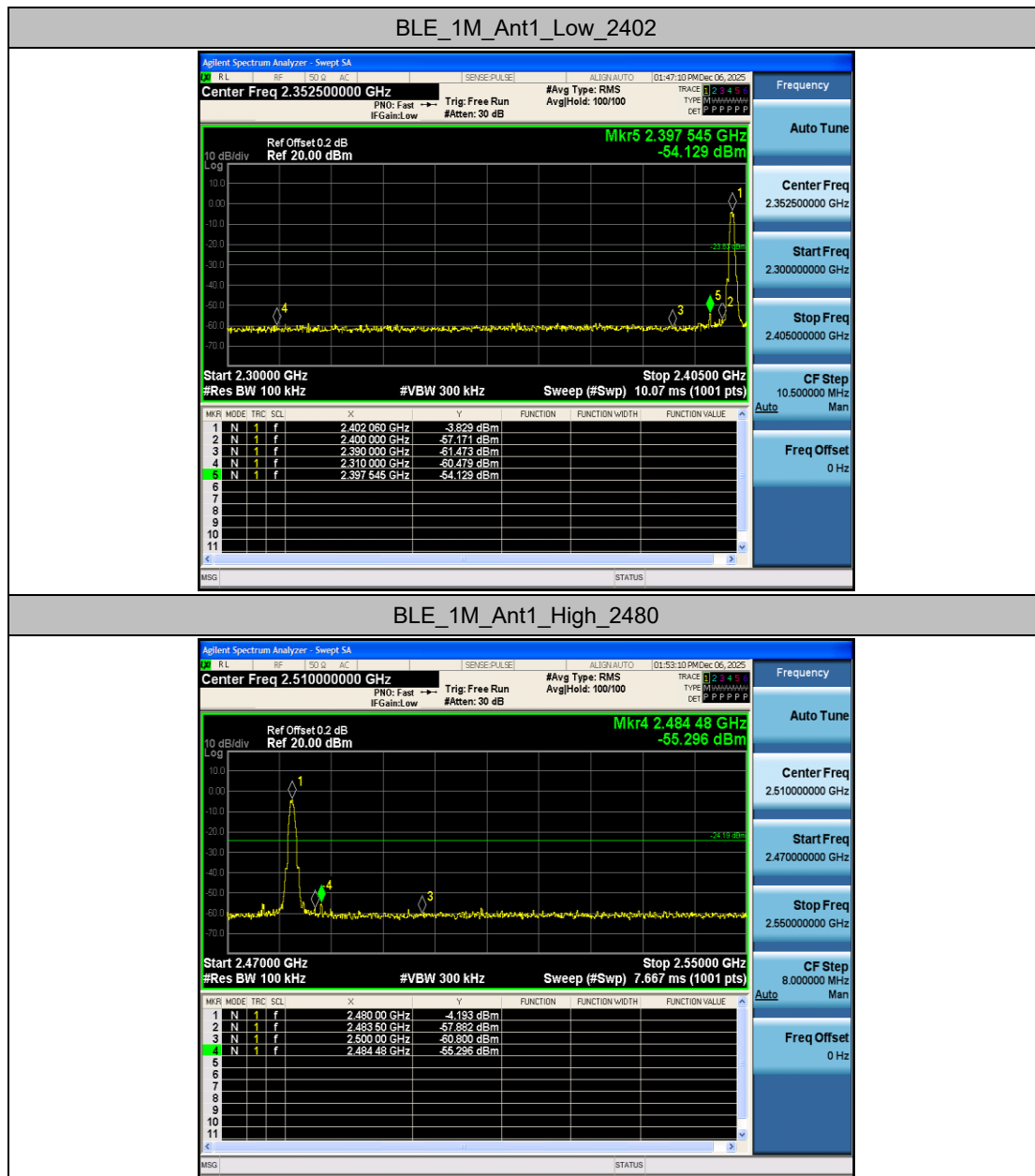


Appendix E: Band edge measurements

Test Result

TestMod e	Antenn a	ChNam e	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdic t
BLE_1M	Ant1	Low	2402	-3.83	-54.13	≤-23.83	PASS
		High	2480	-4.19	-55.3	≤-24.19	PASS

Test Graphs

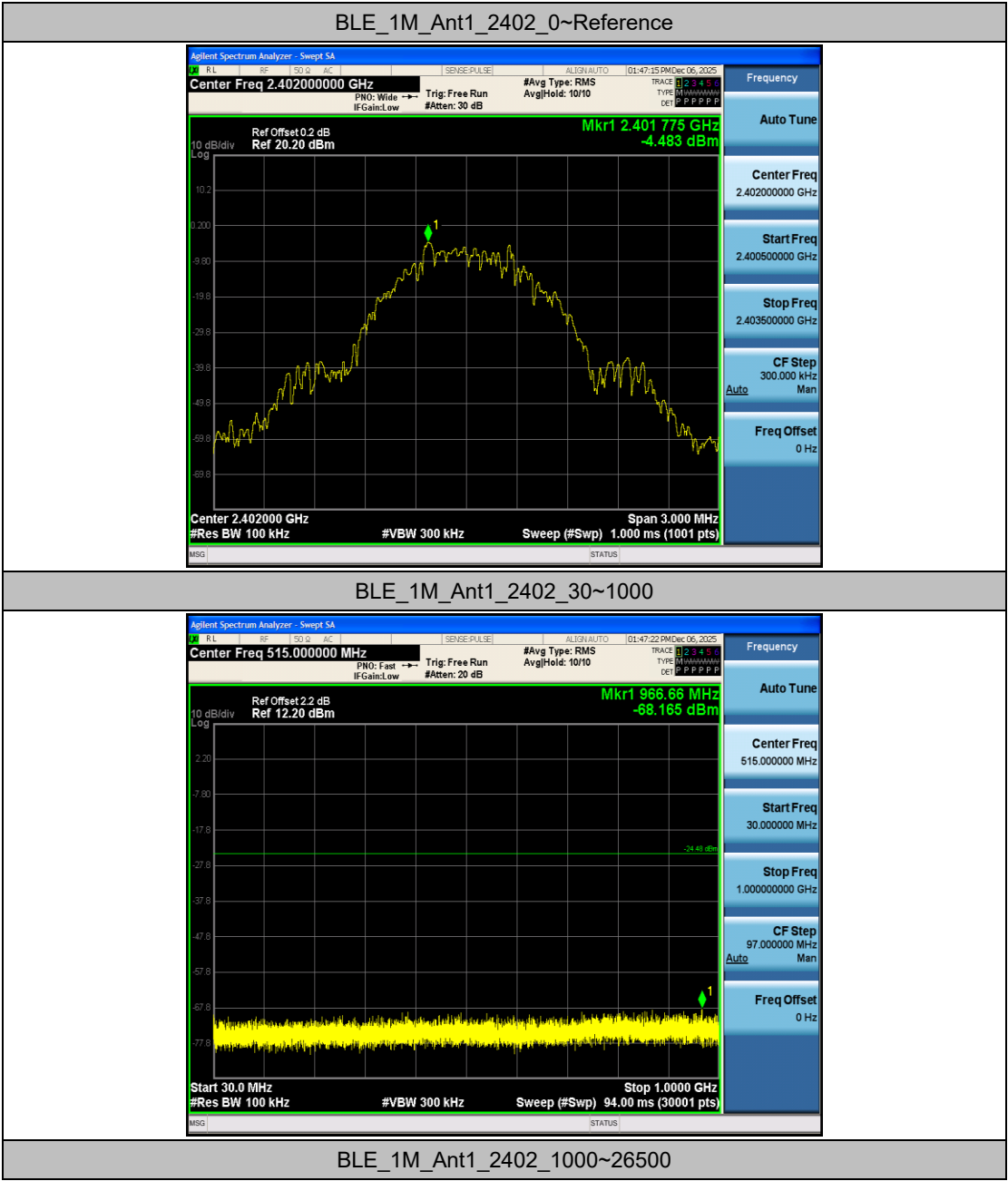


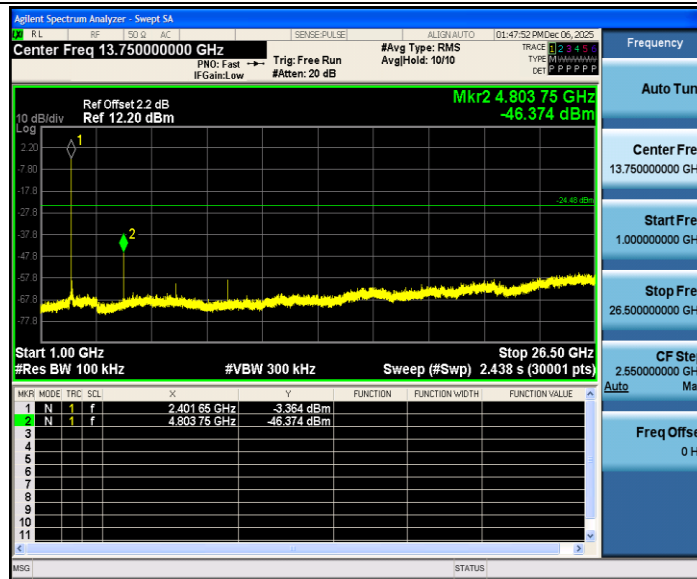
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-4.48	-4.48	---	PASS
			30~1000	-4.48	-68.17	≤-24.48	PASS
			1000~26500	-4.48	-46.37	≤-24.48	PASS
		2440	Reference	-4.38	-4.38	---	PASS
			30~1000	-4.38	-67.67	≤-24.38	PASS
			1000~26500	-4.38	-46.57	≤-24.38	PASS
		2480	Reference	-5.07	-5.07	---	PASS
			30~1000	-5.07	-63.69	≤-25.07	PASS
			1000~26500	-5.07	-47.76	≤-25.07	PASS

Test Graphs

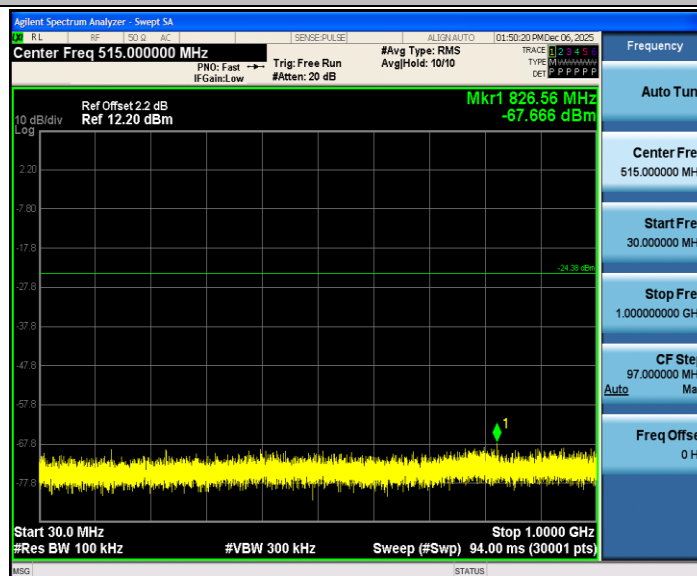




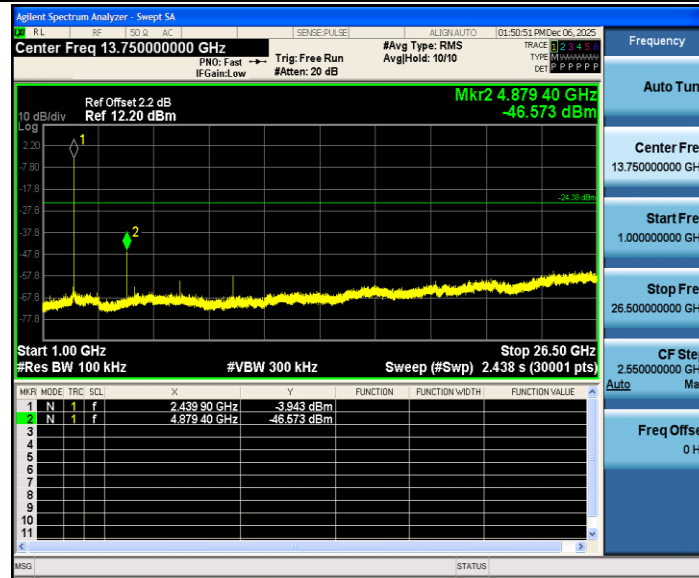
BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



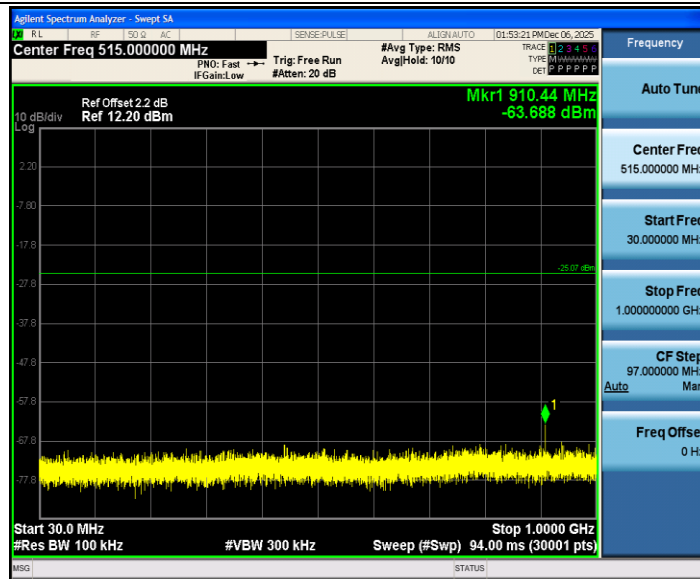
BLE_1M_Ant1_2440_1000~26500



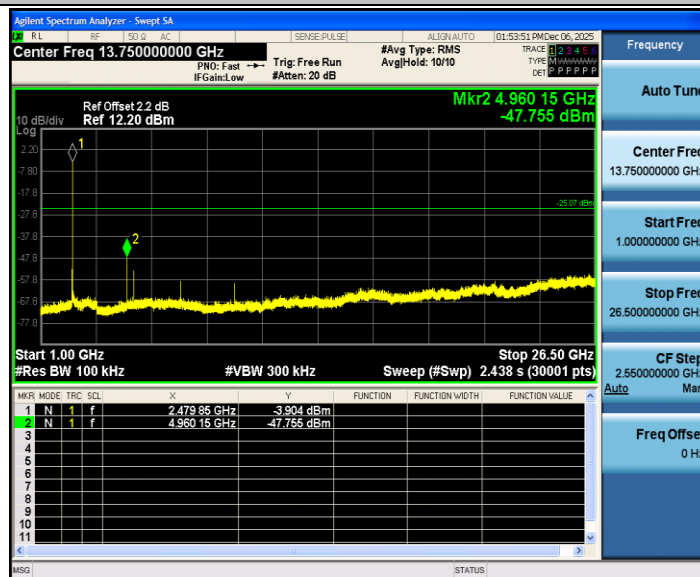
BLE_1M_Ant1_2480_0~Reference



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

