

FCC Appendix RF Test Data for BLE

FCC ID : 2AYDA-500L

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

EUT : Aroma Diffuser

Model Number : 500L

Report No. : CTA25111403001

Reviewed By : Eric Wang

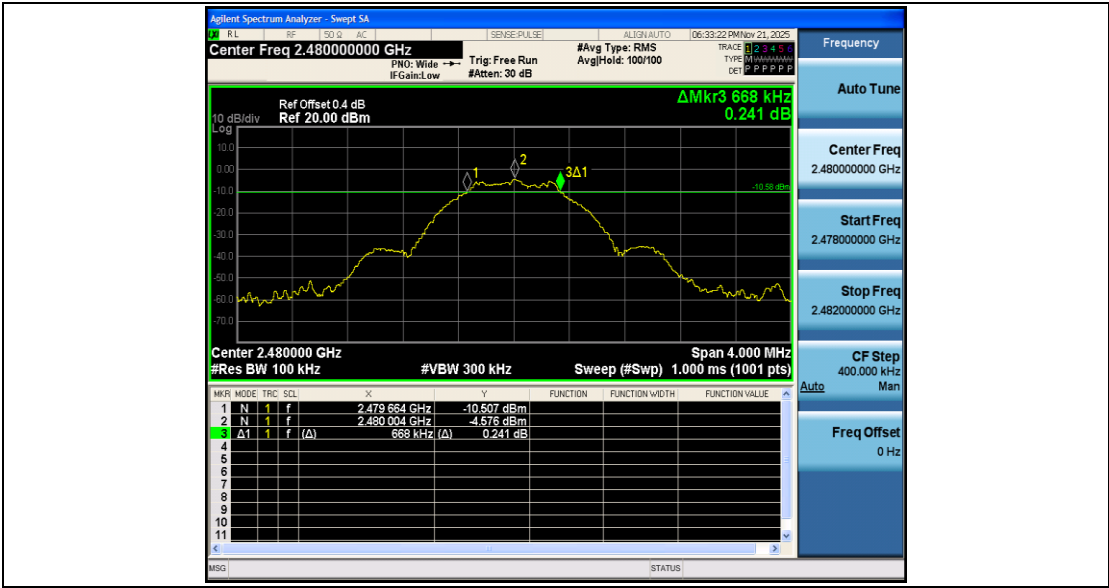
Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.672	2401.660	2402.332	0.5	PASS
		2440	0.652	2439.672	2440.324	0.5	PASS
		2480	0.668	2479.664	2480.332	0.5	PASS

Test Graphs



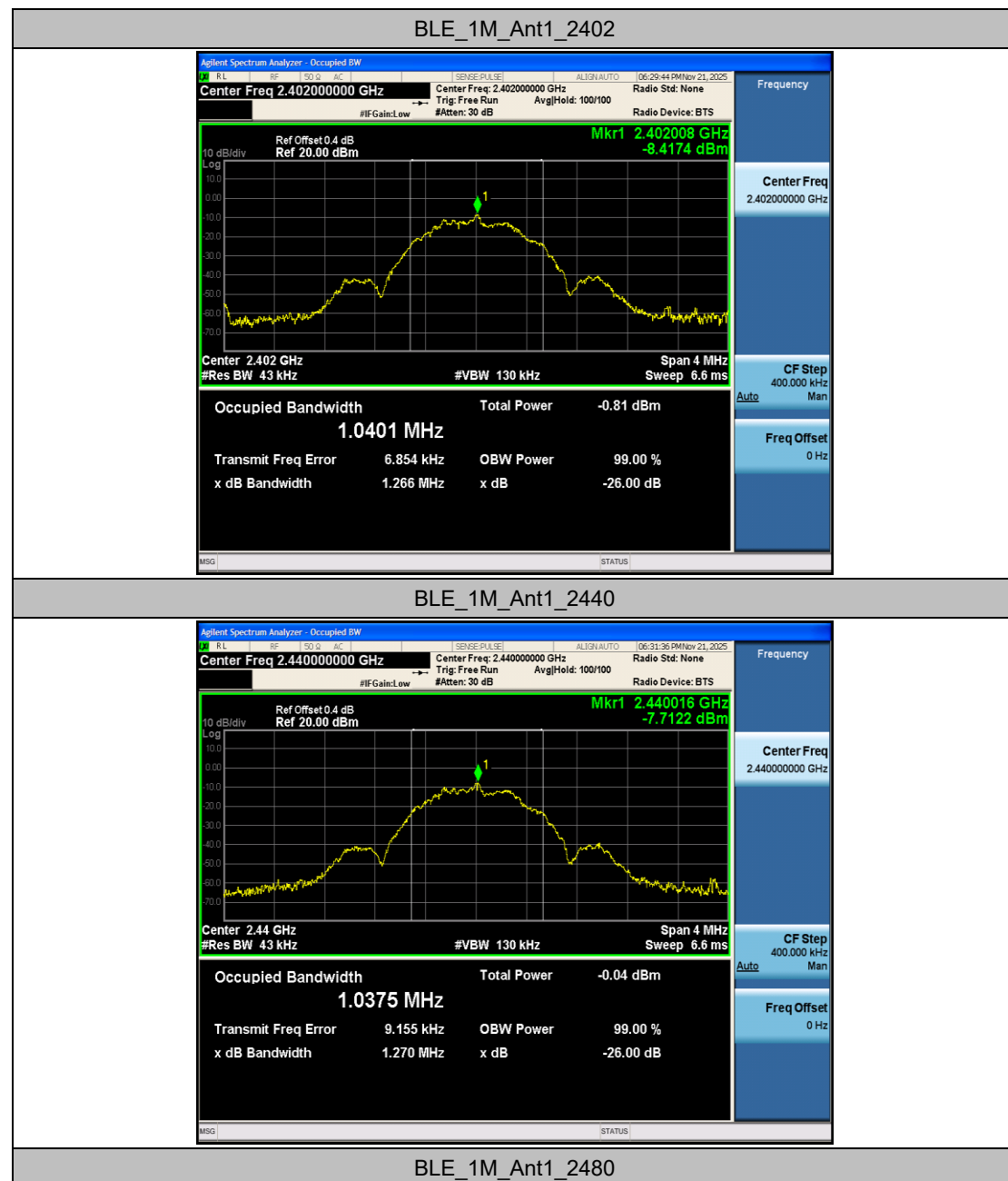


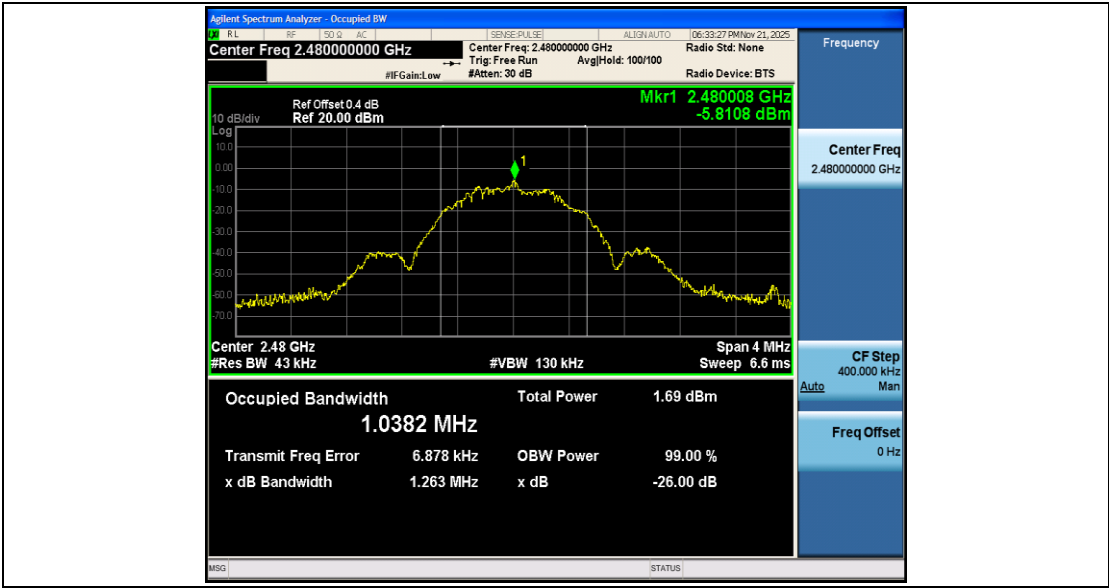
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0401	2401.4868	2402.5269	---	---
		2440	1.0375	2439.4904	2440.5279	---	---
		2480	1.0382	2479.4878	2480.5260	---	---

Test Graphs





Appendix C: Maximum conducted output power

Test Result Peak

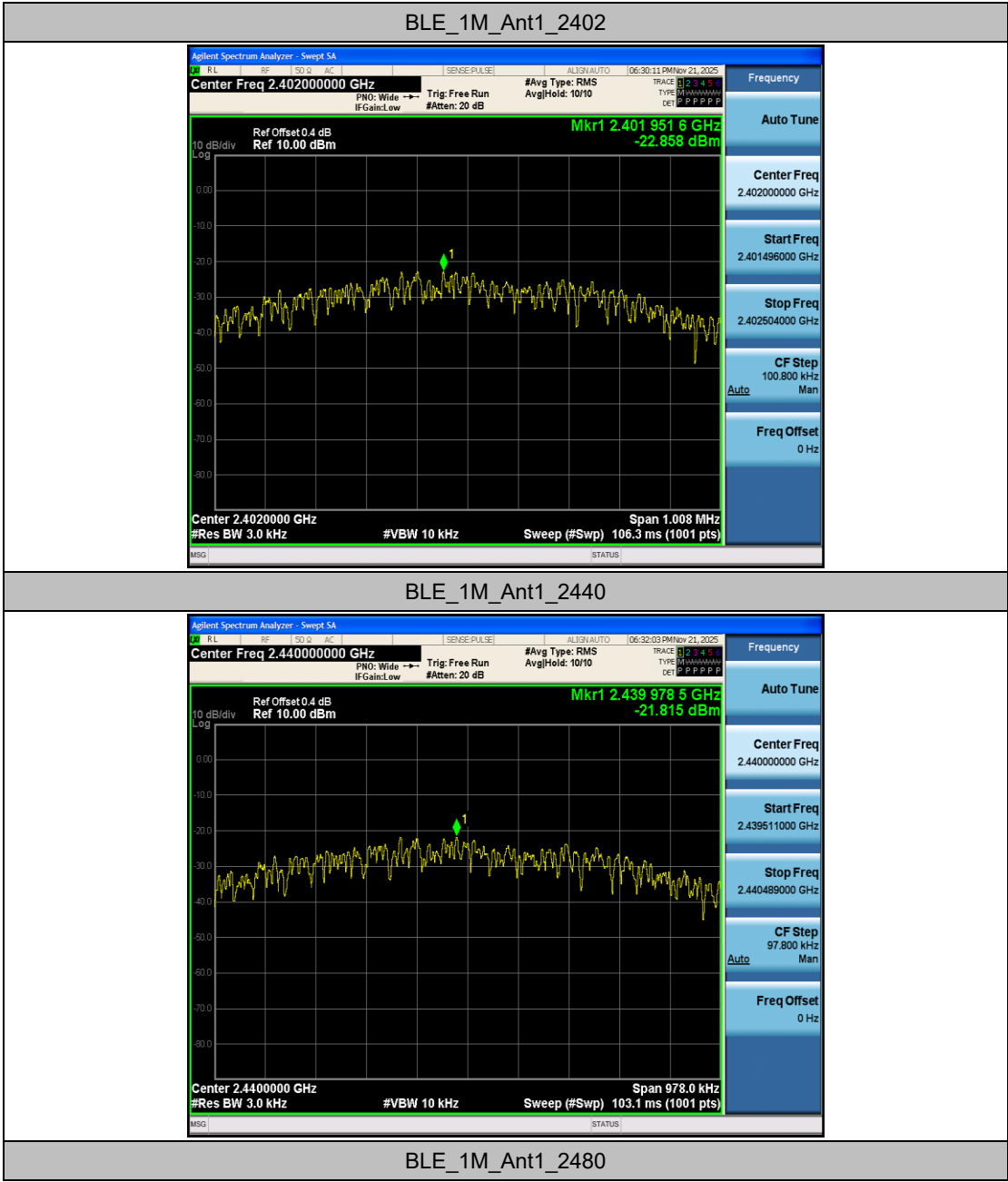
TestMode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-6.96	≤30	PASS
		2440	-6.19	≤30	PASS
		2480	-4.45	≤30	PASS

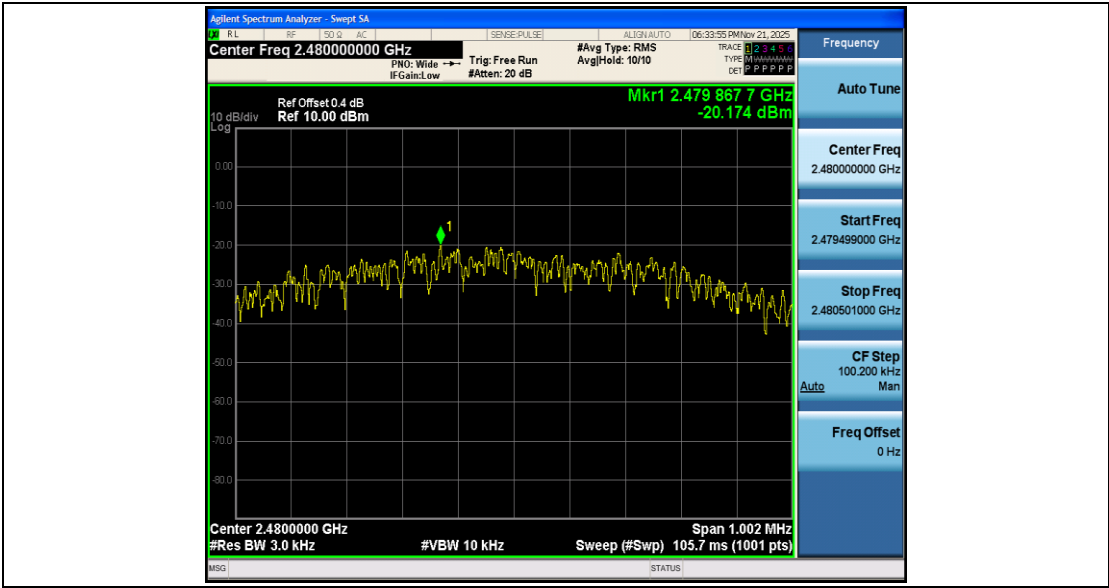
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-22.86	≤8.00	PASS
		2440	-21.82	≤8.00	PASS
		2480	-20.17	≤8.00	PASS

Test Graphs





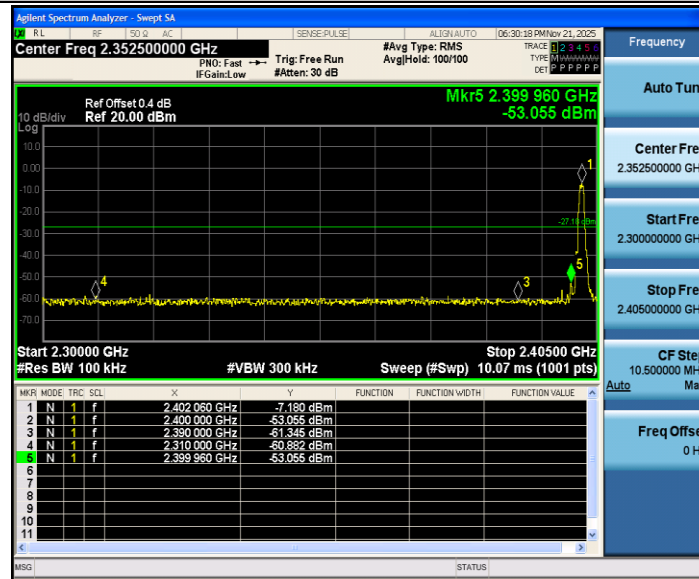
Appendix E: Band edge measurements

Test Result

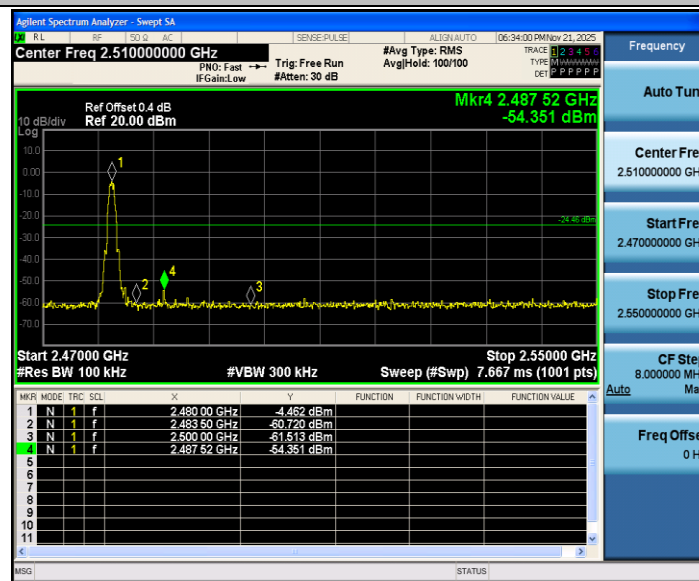
TestMod e	Antenn a	ChNam e	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdic t
BLE_1M	Ant1	Low	2402	-7.18	-53.06	≤-27.18	PASS
		High	2480	-4.46	-54.35	≤-24.46	PASS

Test Graphs

BLE_1M_Ant1_Low_2402



BLE_1M_Ant1_High_2480

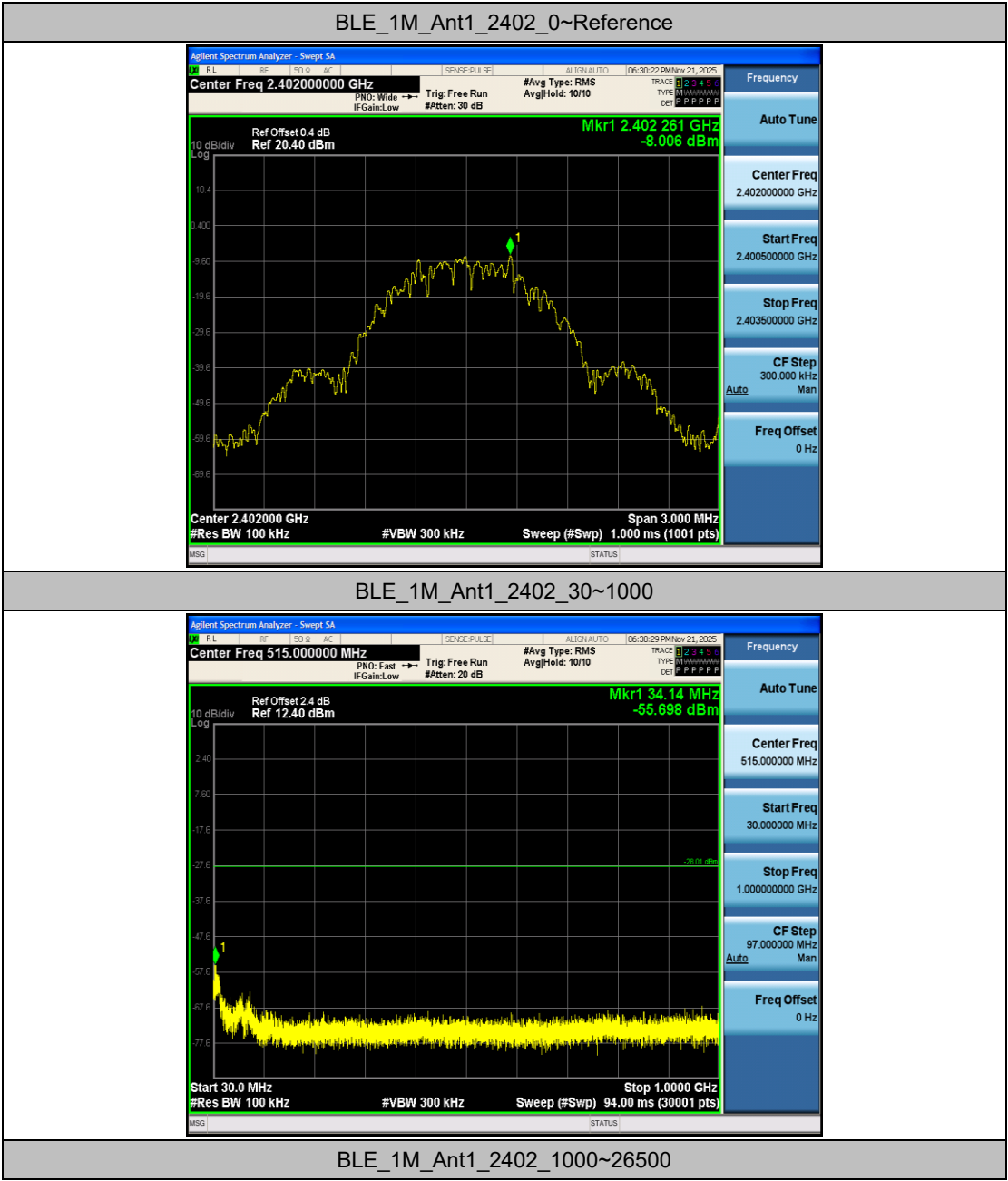


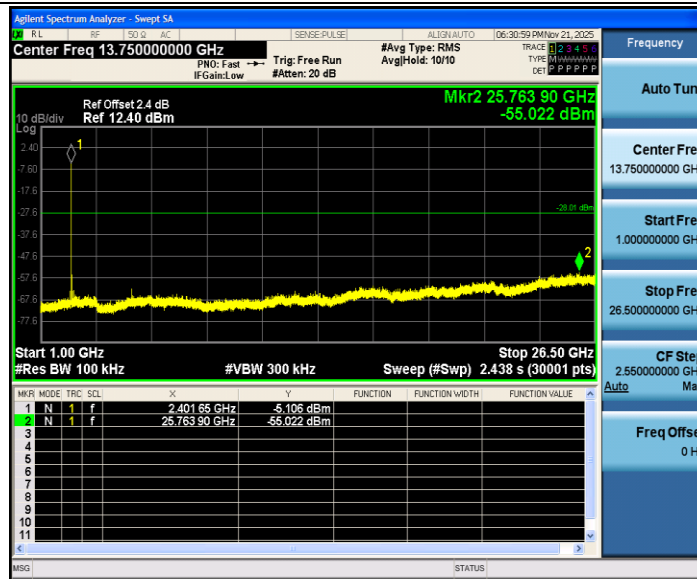
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-8.01	-8.01	---	PASS
			30~1000	-8.01	-55.7	≤-28.01	PASS
			1000~26500	-8.01	-55.02	≤-28.01	PASS
		2440	Reference	-7.23	-7.23	---	PASS
			30~1000	-7.23	-53.09	≤-27.23	PASS
			1000~26500	-7.23	-54.71	≤-27.23	PASS
		2480	Reference	-5.13	-5.13	---	PASS
			30~1000	-5.13	-54.84	≤-25.13	PASS
			1000~26500	-5.13	-48.96	≤-25.13	PASS

Test Graphs

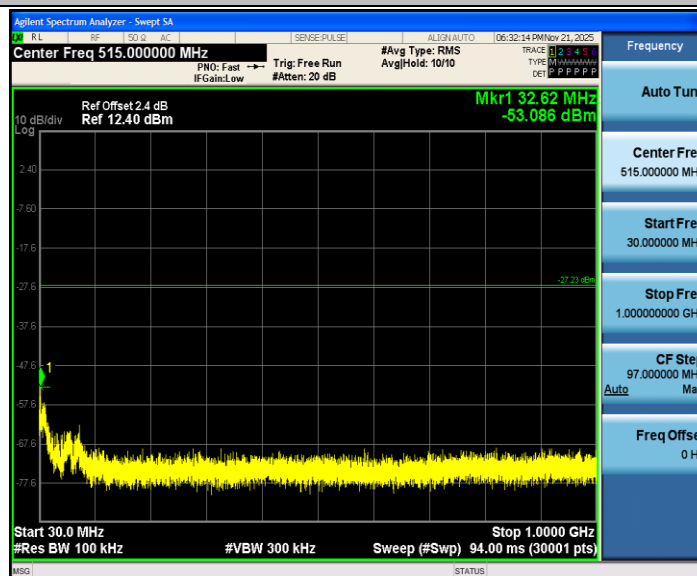




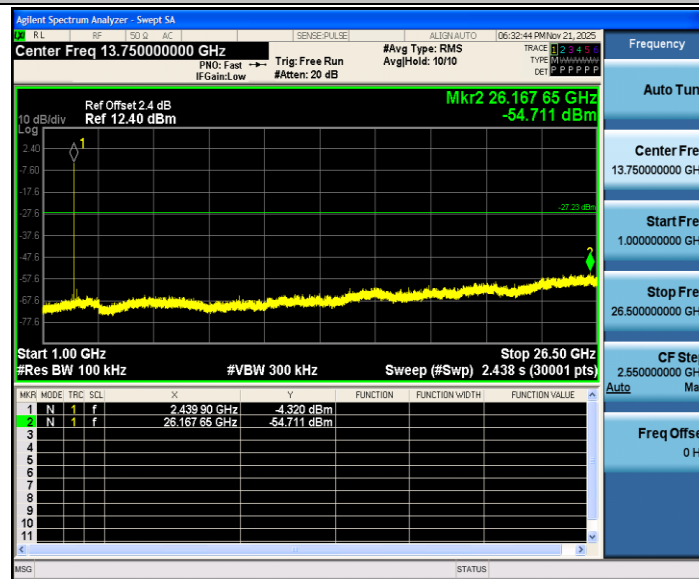
BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



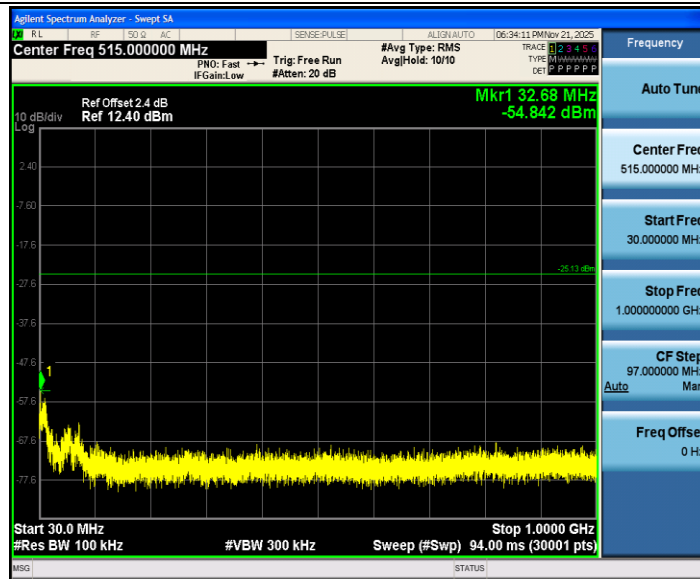
BLE_1M_Ant1_2440_1000~26500



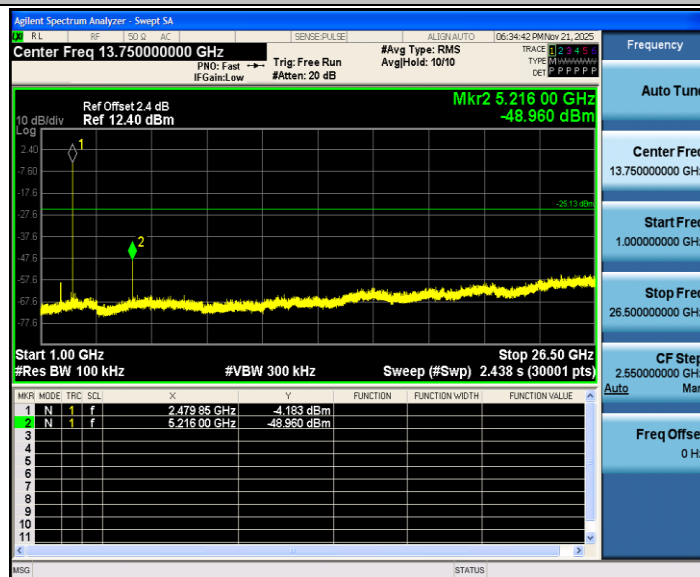
BLE_1M_Ant1_2480_0~Reference



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	0.39	0.62	0.6290	62.90	2.01	---	---
		2440	0.39	0.62	0.6290	62.90	2.01	---	---
		2480	0.39	0.62	0.6290	62.90	2.01	---	---

Test Graphs

