

FCC Appendix RF Test Data for BLE

FCC ID : 2BLVO-AEON

Company : Guangzhou JiDongTai Intelligent Equipment Co.,LTD

EUT : Electric unicycle

Model Number : AEON

Report No. : CTA25112200801

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	0.644	2401.692	2402.336	0.5	PASS
		2440	0.652	2439.688	2440.340	0.5	PASS
		2480	0.664	2479.680	2480.344	0.5	PASS

Test Graphs



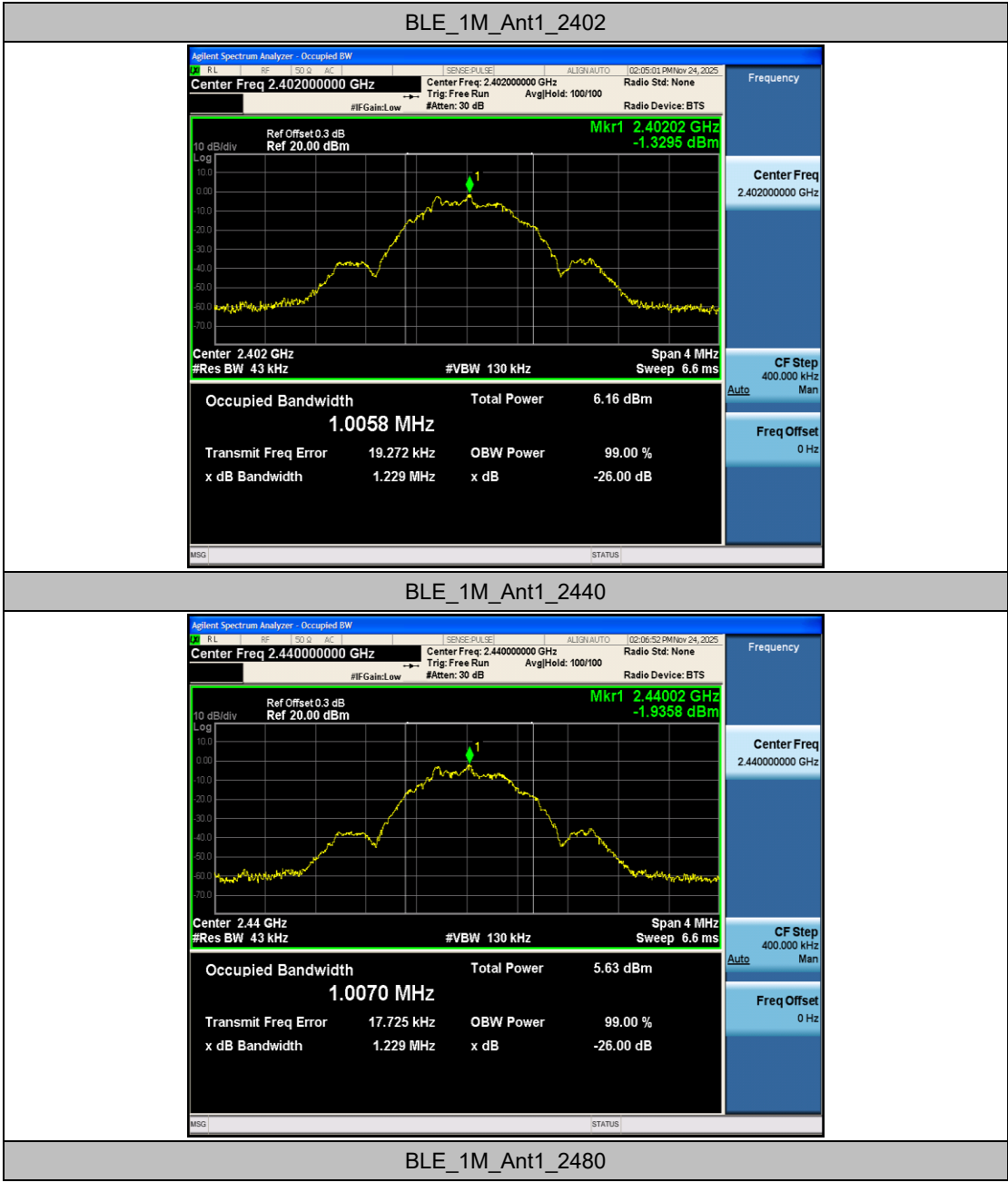


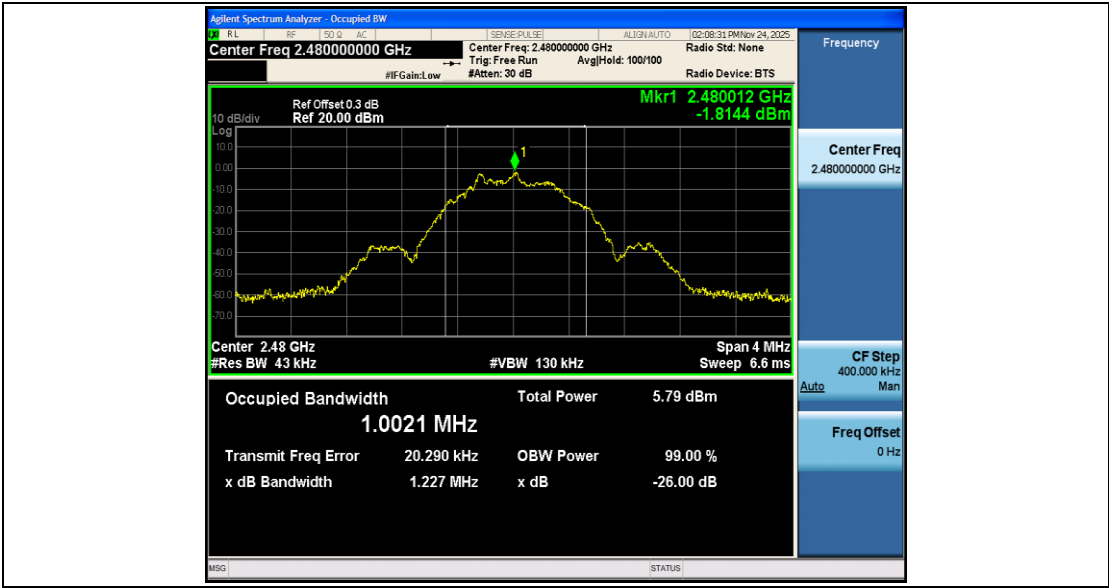
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0058	2401.5164	2402.5222	---	---
		2440	1.0070	2439.5142	2440.5212	---	---
		2480	1.0021	2479.5192	2480.5213	---	---

Test Graphs





Appendix C: Maximum conducted output power

Test Result Peak

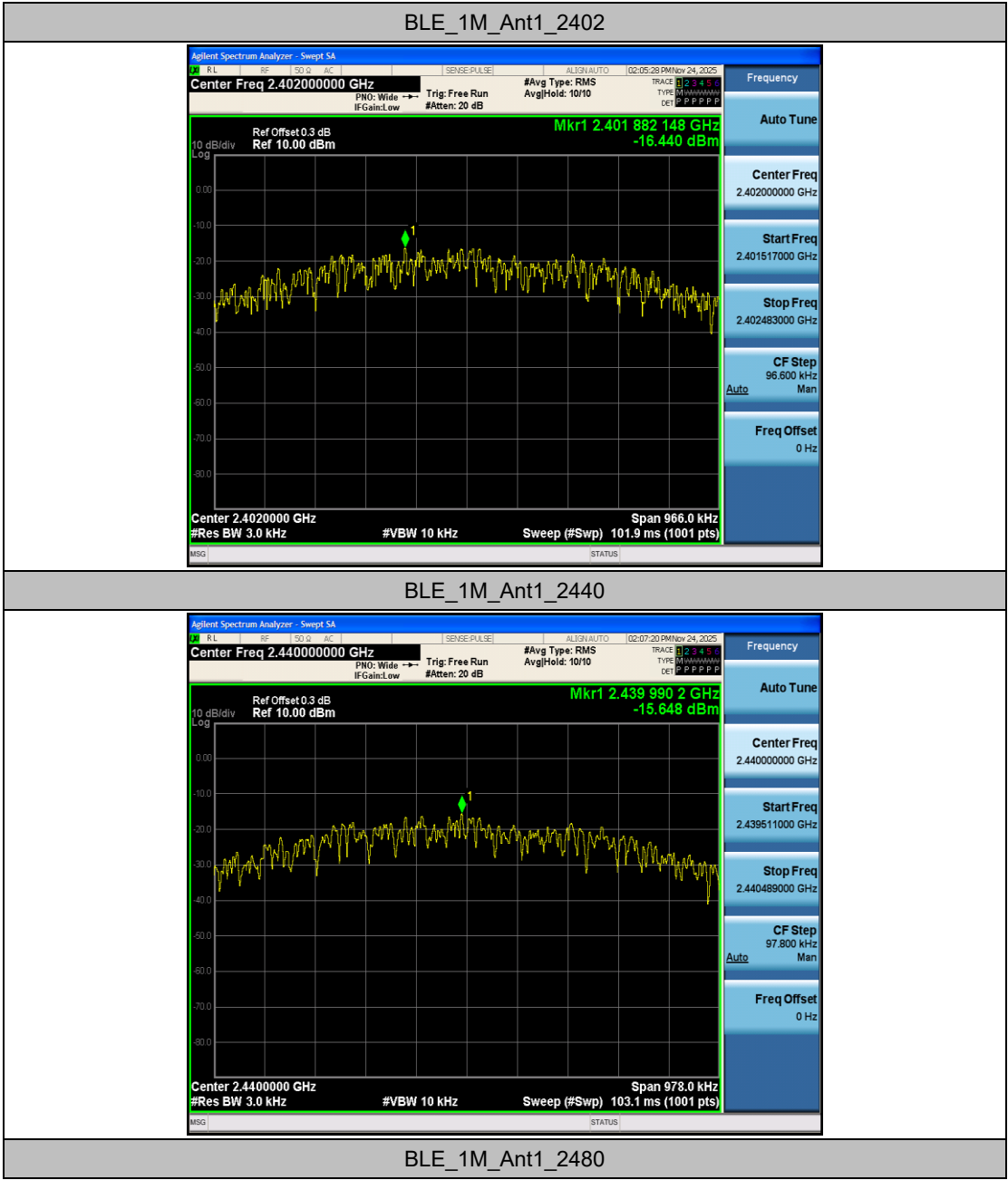
TestMode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-0.05	≤30	PASS
		2440	-0.46	≤30	PASS
		2480	-0.45	≤30	PASS

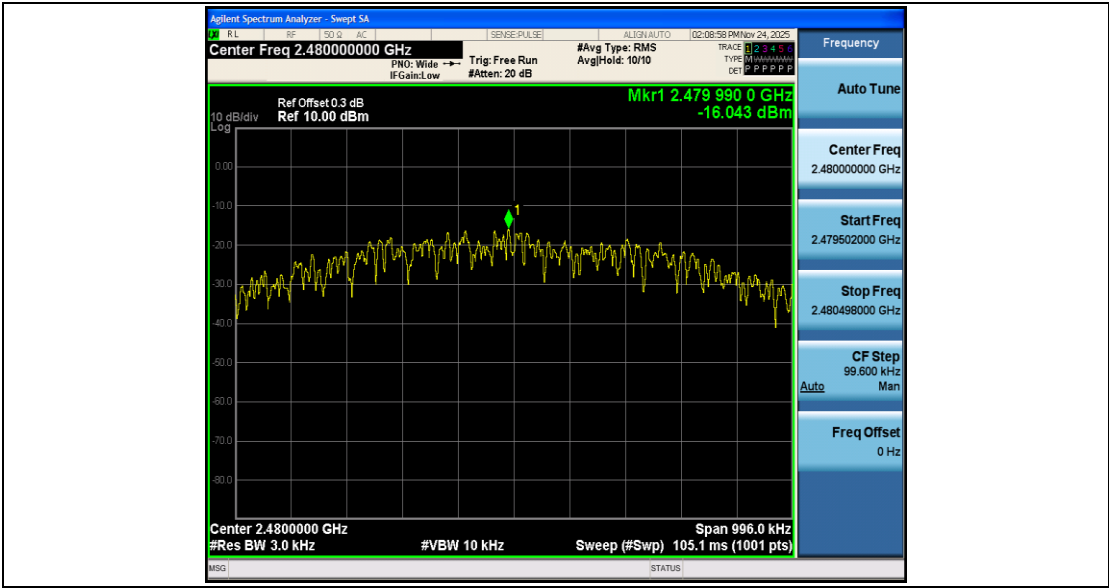
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-16.44	≤8.00	PASS
		2440	-15.65	≤8.00	PASS
		2480	-16.04	≤8.00	PASS

Test Graphs





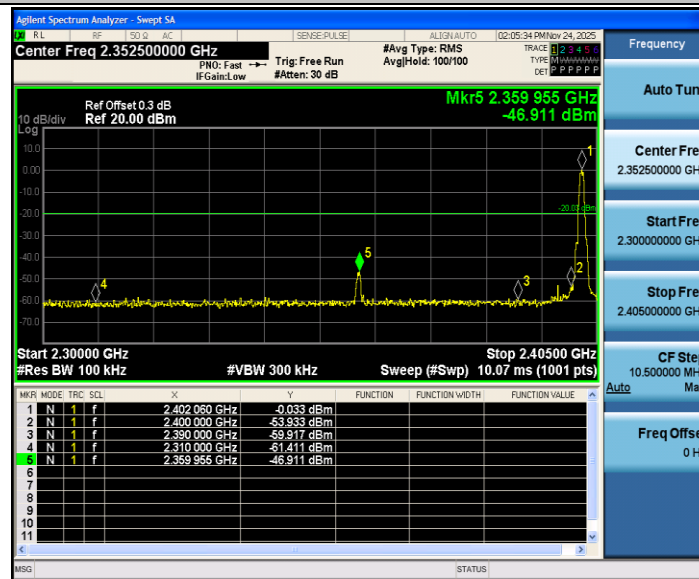
Appendix E: Band edge measurements

Test Result

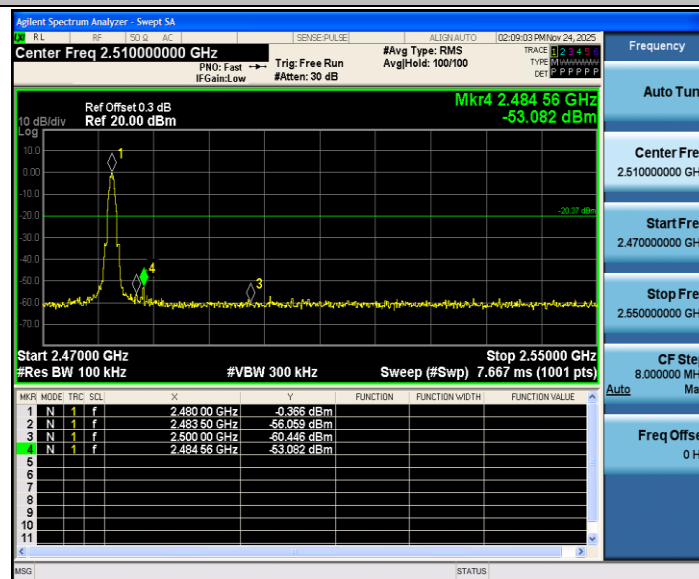
TestMod e	Antenn a	ChNam e	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdic t
BLE_1M	Ant1	Low	2402	-0.03	-46.91	≤-20.03	PASS
		High	2480	-0.37	-53.08	≤-20.37	PASS

Test Graphs

BLE_1M_Ant1_Low_2402



BLE_1M_Ant1_High_2480

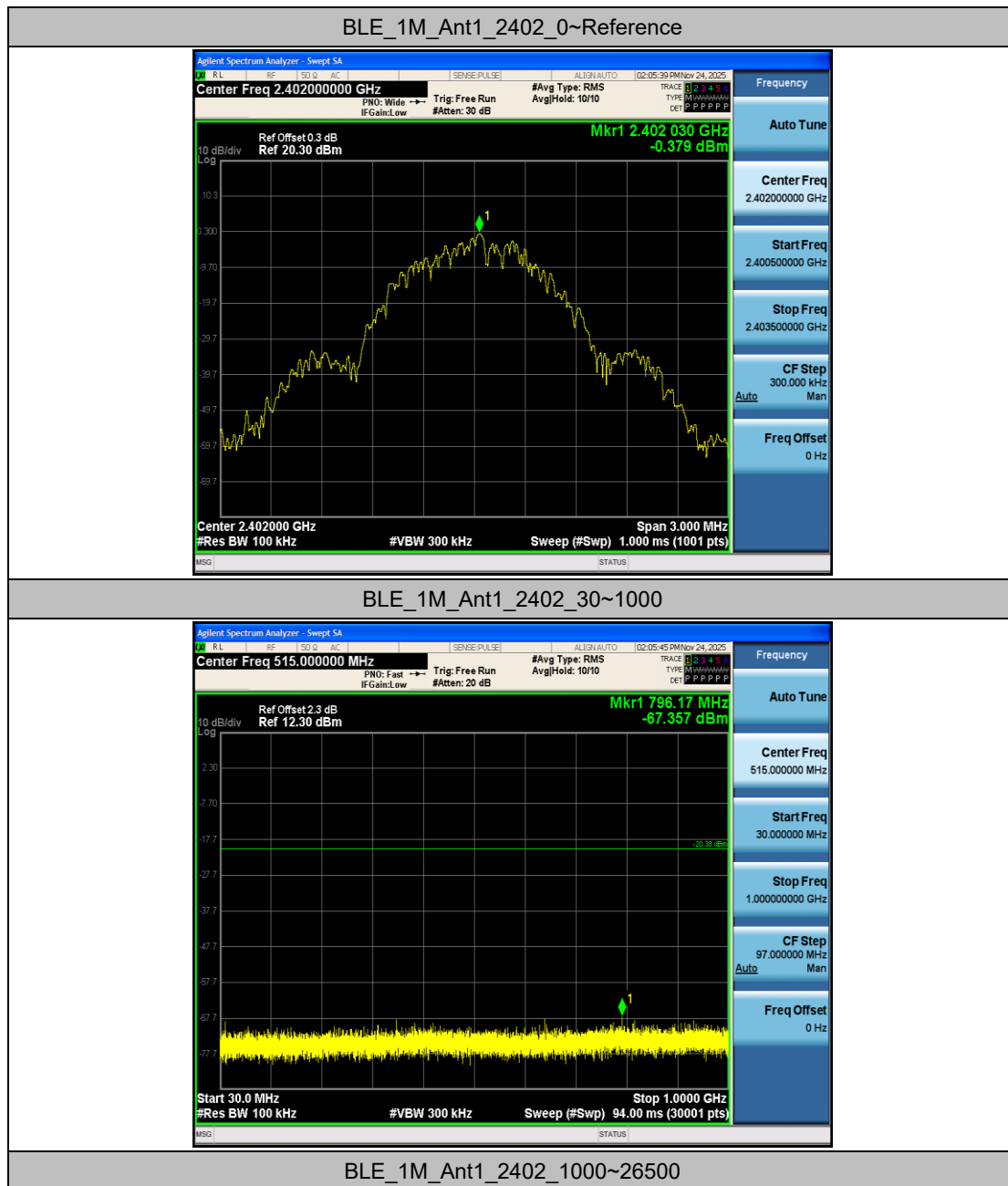


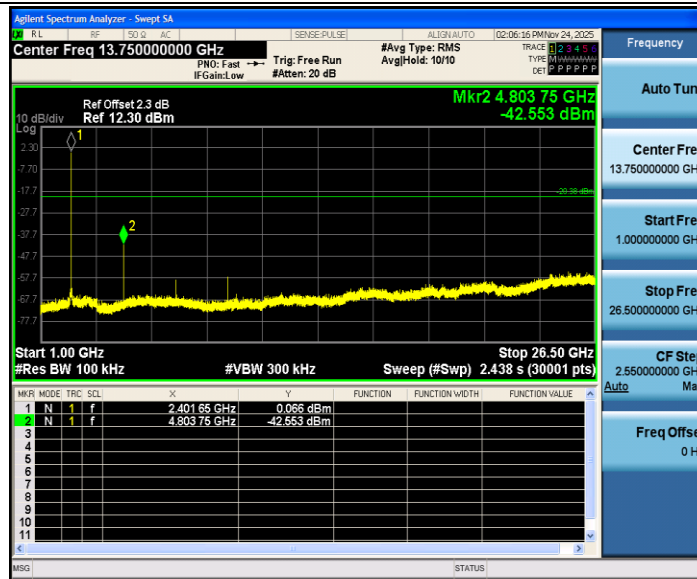
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-0.38	-0.38	---	PASS
			30~1000	-0.38	-67.36	≤-20.38	PASS
			1000~26500	-0.38	-42.55	≤-20.38	PASS
		2440	Reference	-0.58	-0.58	---	PASS
			30~1000	-0.58	-67.6	≤-20.58	PASS
			1000~26500	-0.58	-44.36	≤-20.58	PASS
		2480	Reference	-1.74	-1.74	---	PASS
			30~1000	-1.74	-50.56	≤-21.74	PASS
			1000~26500	-1.74	-42.14	≤-21.74	PASS

Test Graphs

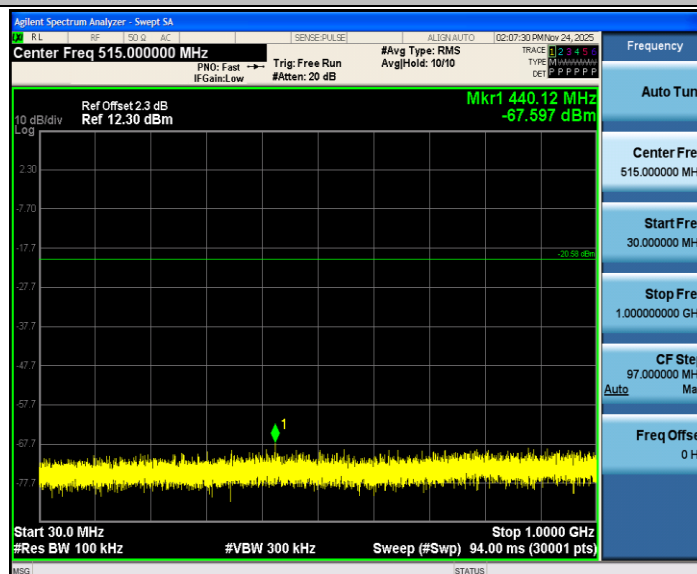




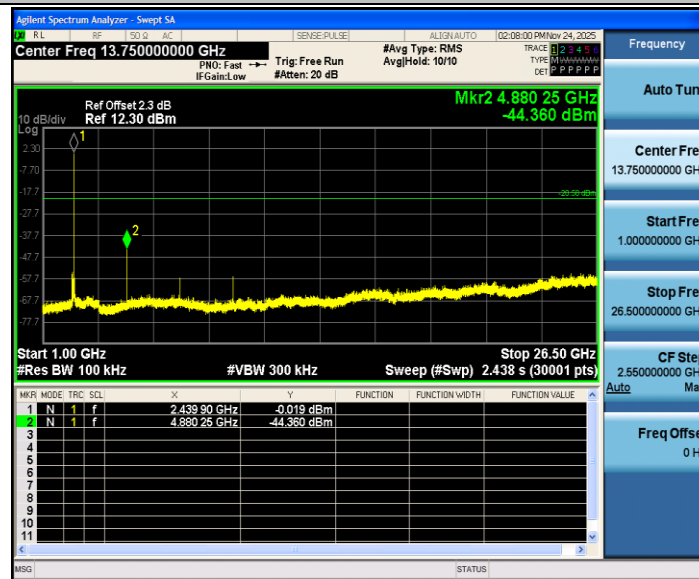
BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



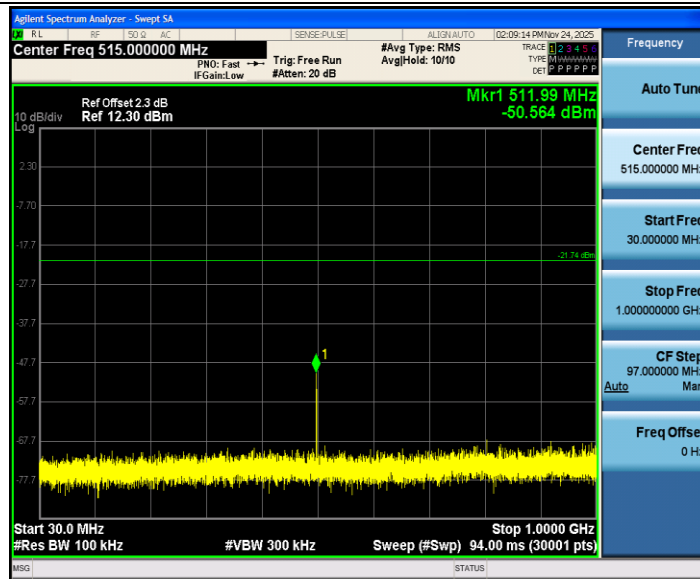
BLE_1M_Ant1_2440_1000~26500



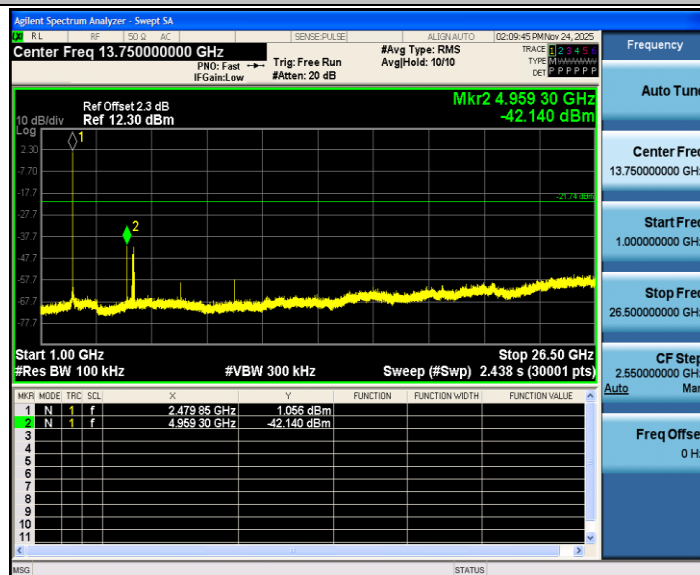
BLE_1M_Ant1_2480_0~Reference



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	0.62	0.6613	66.13	1.80	---	---
		2440	0.41	0.62	0.6613	66.13	1.80	---	---
		2480	0.41	0.62	0.6613	66.13	1.80	---	---

Test Graphs

