

FCC Appendix RF Test Data for BLE

FCC ID : 2A5ZU-BTL306

Company : Shenzhen Baojia Battery Technology Co.,Ltd.

EUT : PLAYBULB OVAL

Model Number : BTL306

Report No. : CTA25090200301

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	0.664	2401.648	2402.312	0.5	PASS
		2440	0.664	2439.648	2440.312	0.5	PASS
		2480	0.680	2479.640	2480.320	0.5	PASS

Test Graphs





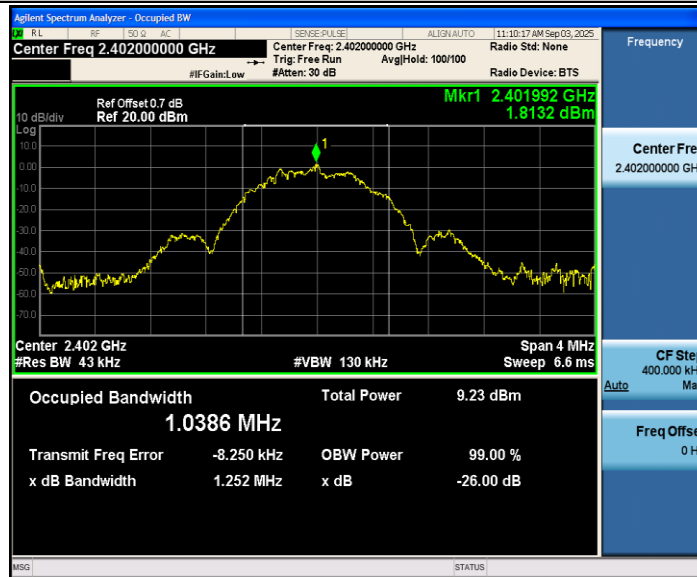
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0386	2401.4725	2402.5111	---	---
		2440	1.0328	2439.4774	2440.5102	---	---
		2480	1.0346	2479.4736	2480.5082	---	---

Test Graphs

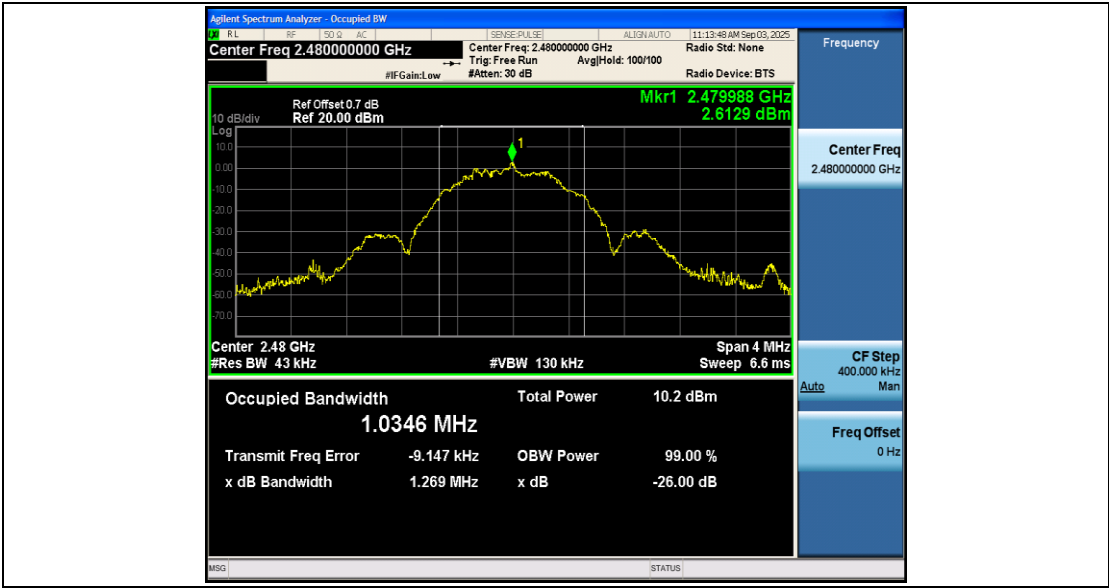
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



Appendix C: Maximum conducted output power

Test Result Peak

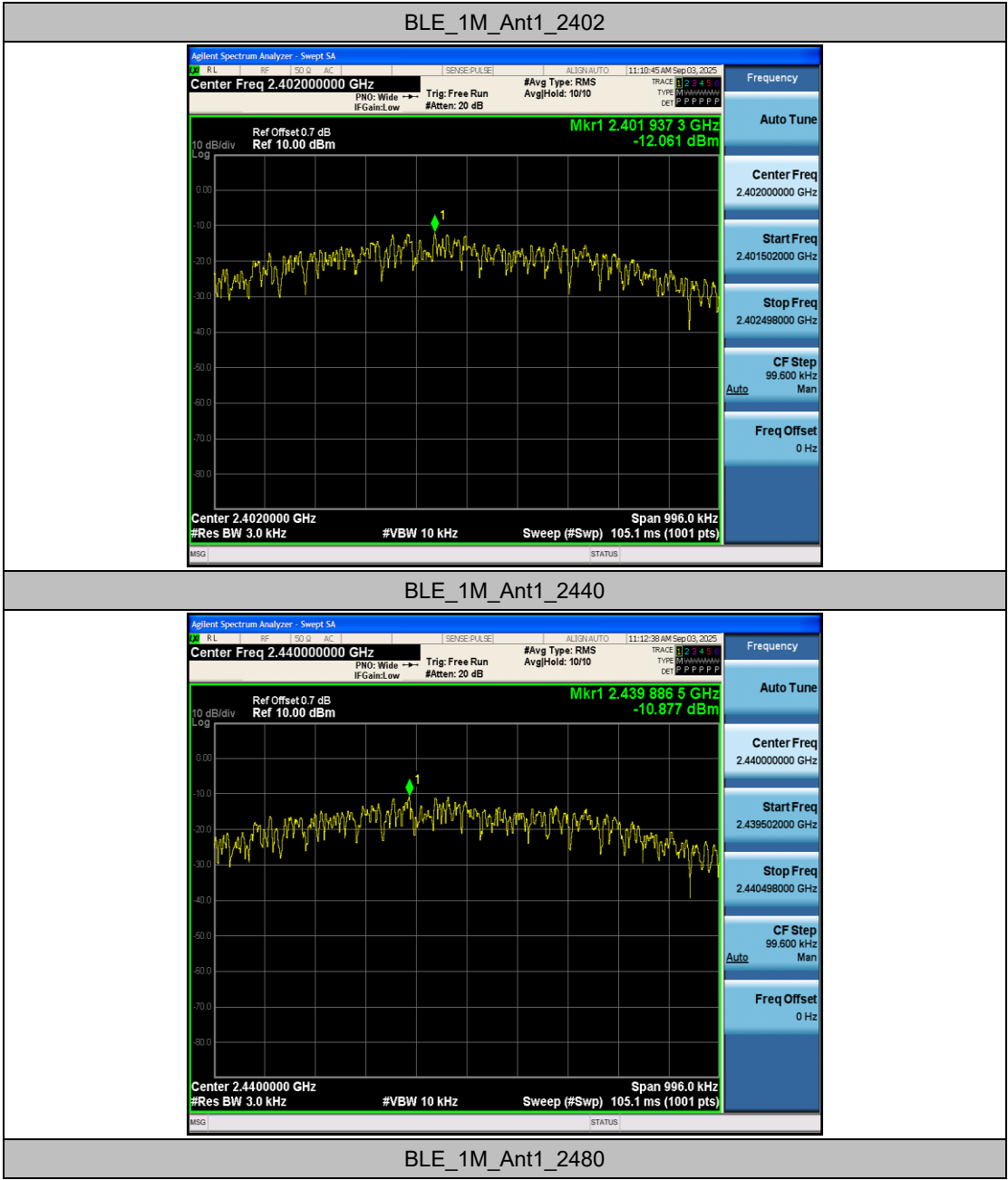
TestMode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	3.10	≤30	PASS
		2440	4.50	≤30	PASS
		2480	3.97	≤30	PASS

Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-12.06	≤8.00	PASS
		2440	-10.88	≤8.00	PASS
		2480	-11.81	≤8.00	PASS

Test Graphs



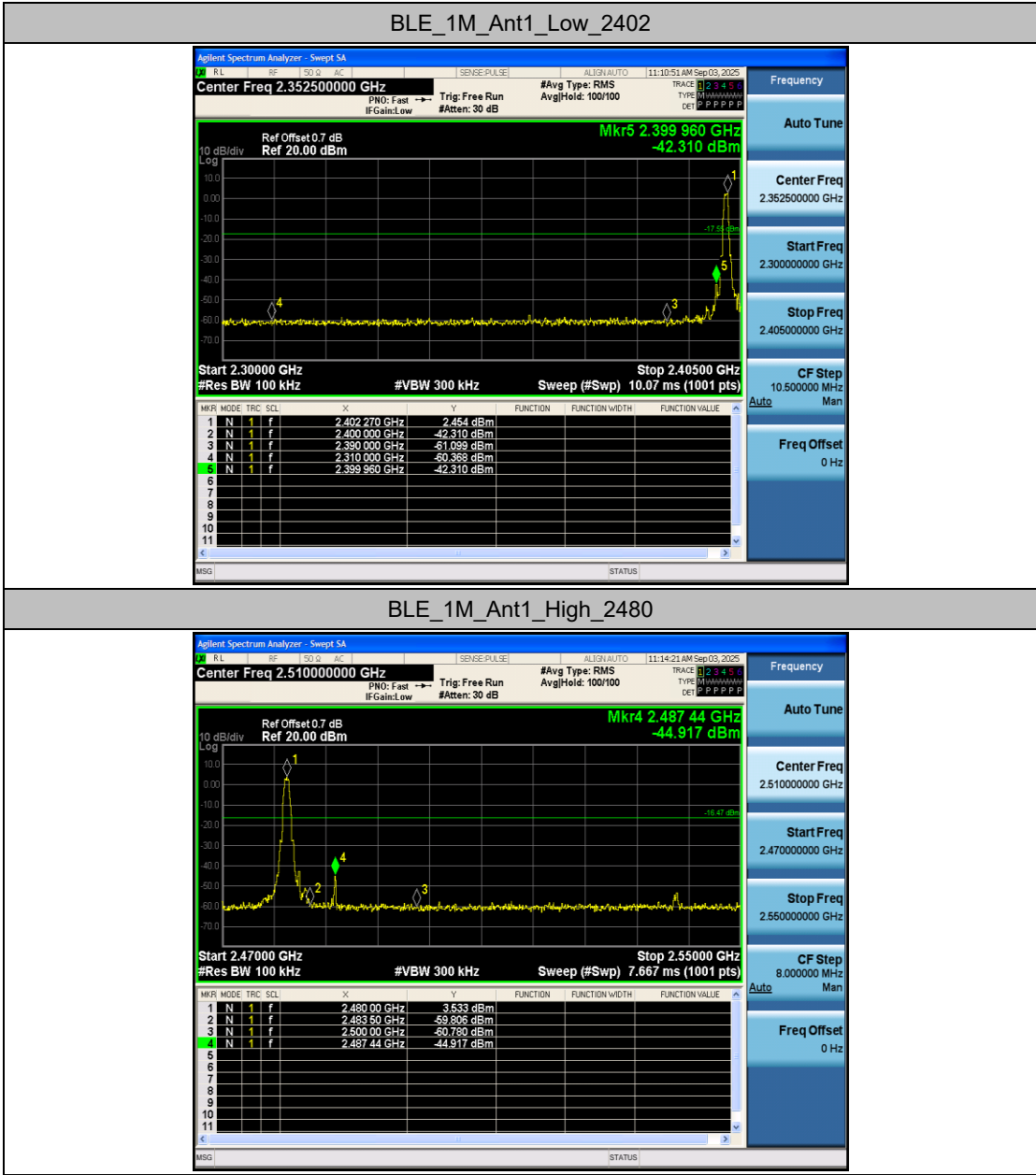


Appendix E: Band edge measurements

Test Result

TestMod e	Antenn a	ChNam e	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdic t
BLE_1M	Ant1	Low	2402	2.45	-42.31	≤-17.55	PASS
		High	2480	3.53	-44.92	≤-16.47	PASS

Test Graphs

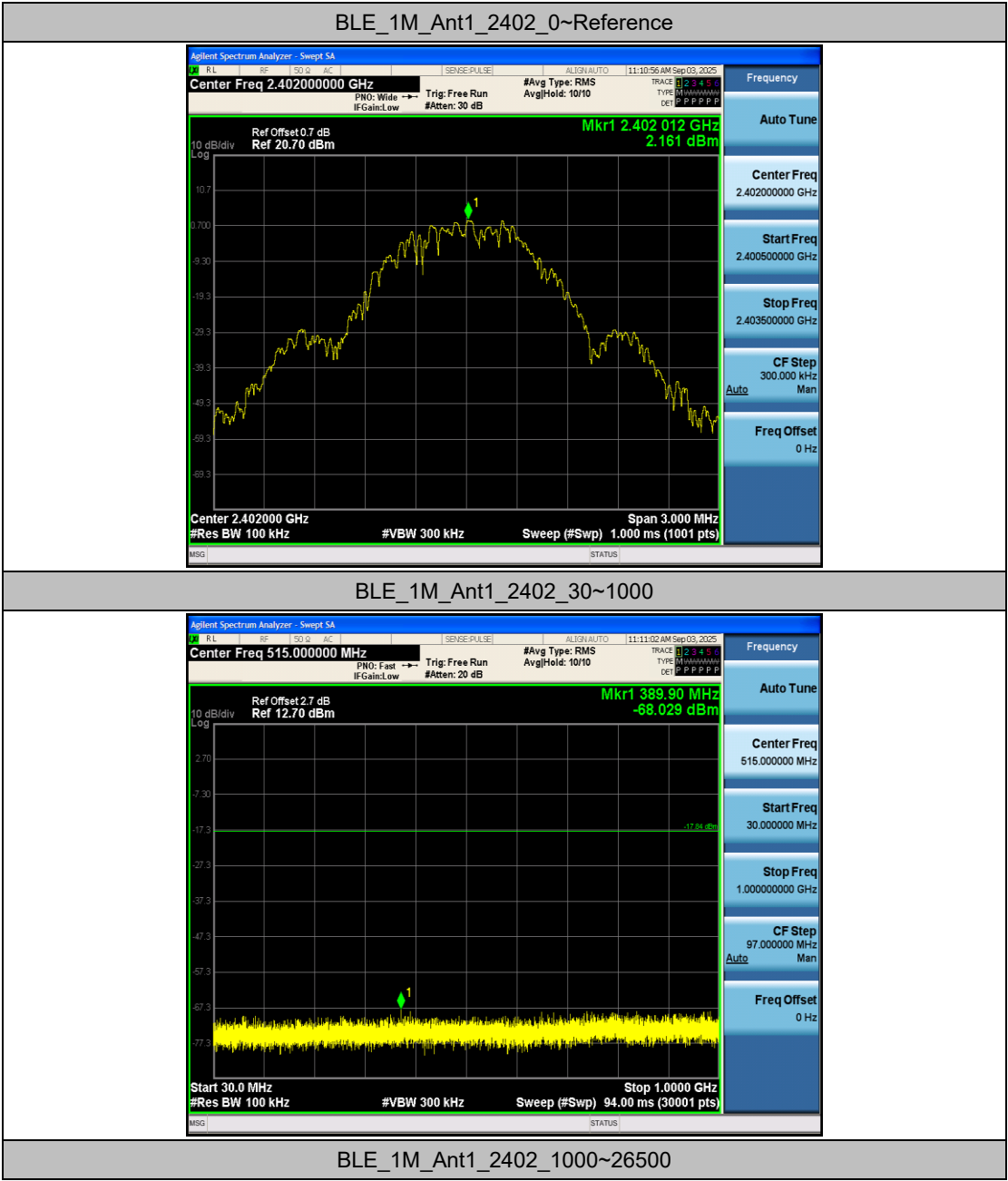


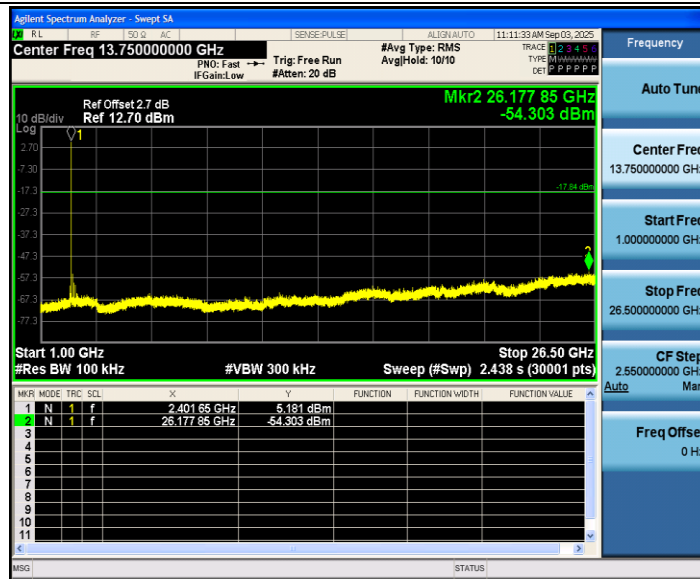
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	2.16	2.16	---	PASS
			30~1000	2.16	-68.03	≤-17.84	PASS
			1000~26500	2.16	-54.3	≤-17.84	PASS
		2440	Reference	4.27	4.27	---	PASS
			30~1000	4.27	-65.85	≤-15.73	PASS
			1000~26500	4.27	-54.3	≤-15.73	PASS
		2480	Reference	2.95	2.95	---	PASS
			30~1000	2.95	-67.75	≤-17.05	PASS
			1000~26500	2.95	-54.41	≤-17.05	PASS

Test Graphs

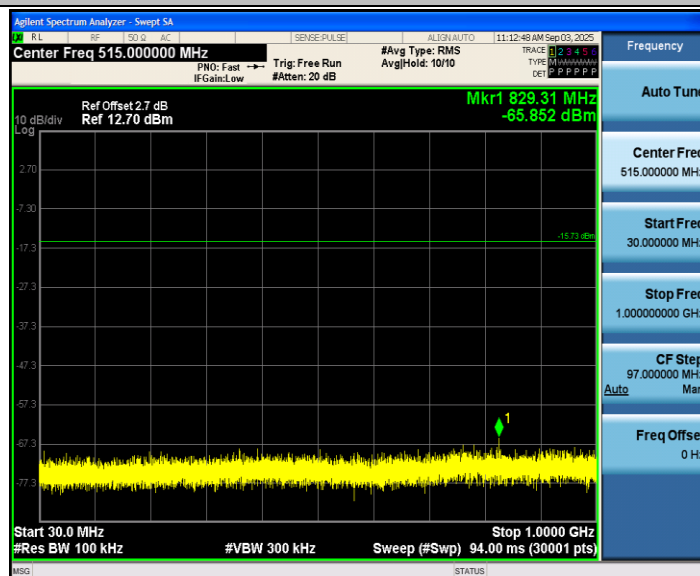




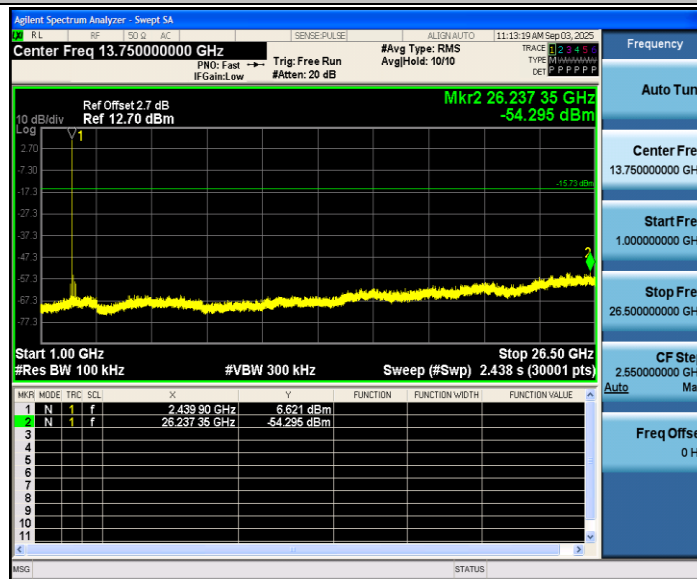
BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



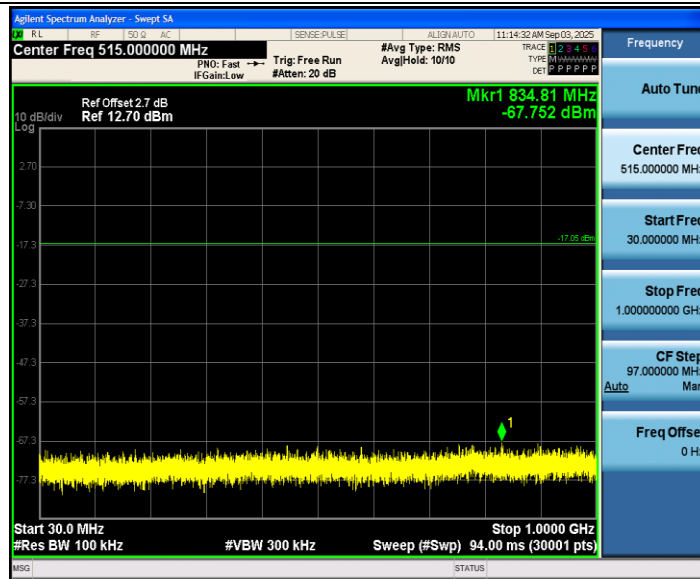
BLE_1M_Ant1_2440_1000~26500



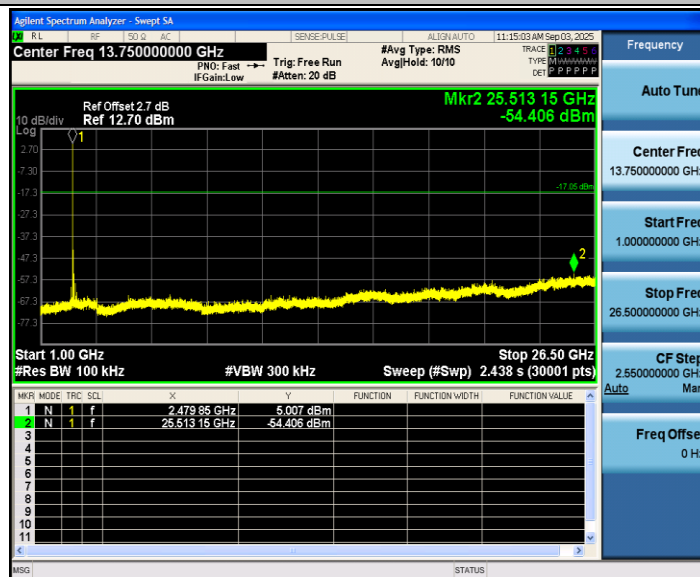
BLE_1M_Ant1_2480_0~Reference



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

