

FCC Appendix RF Test Data for BLE

FCC ID : 2BSQQ-GO-0
Company : QUKER LTD
EUT : MANGOGO
Model Number : GO-0
Report No. : CTA25091200901
Reviewed By : Eric Wang

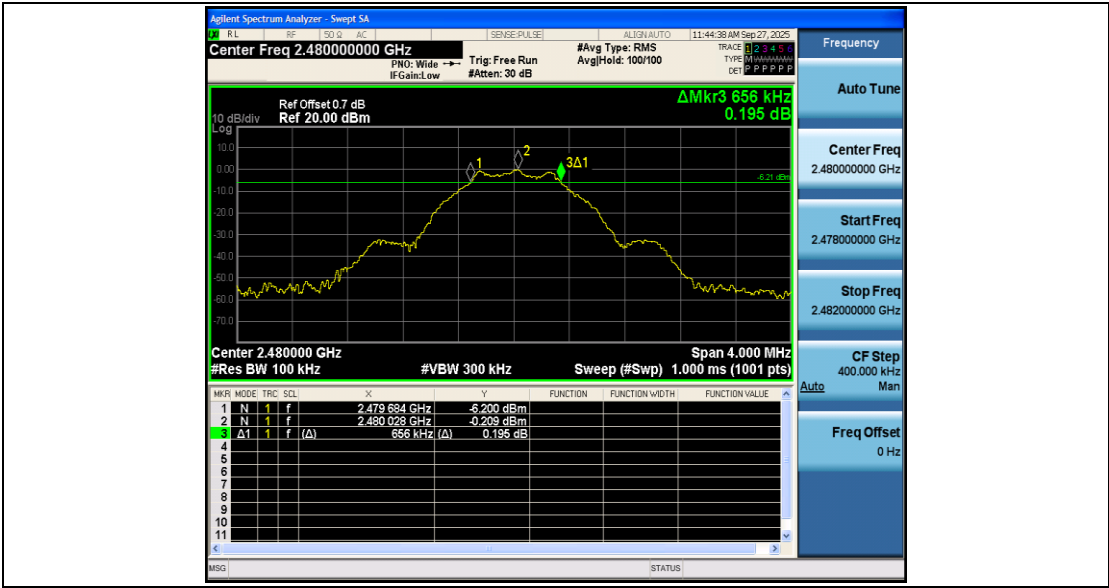
Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.644	2401.688	2402.332	0.5	PASS
		2440	0.664	2439.680	2440.344	0.5	PASS
		2480	0.656	2479.684	2480.340	0.5	PASS

Test Graphs





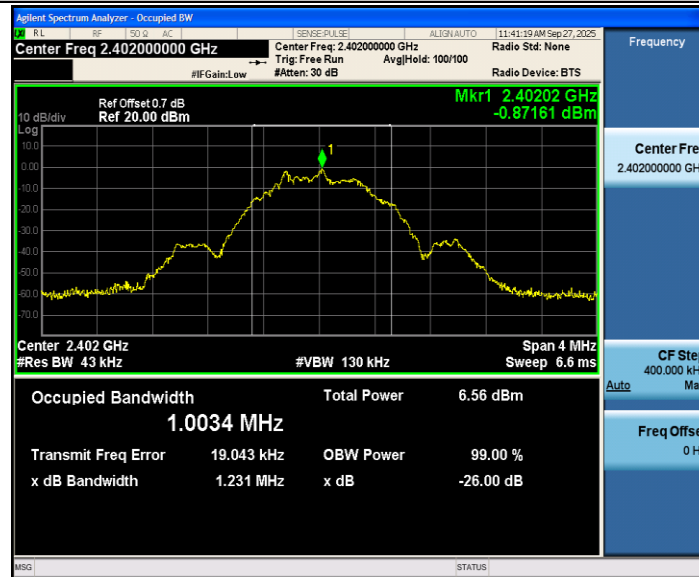
Appendix B: Occupied Channel Bandwidth

Test Result

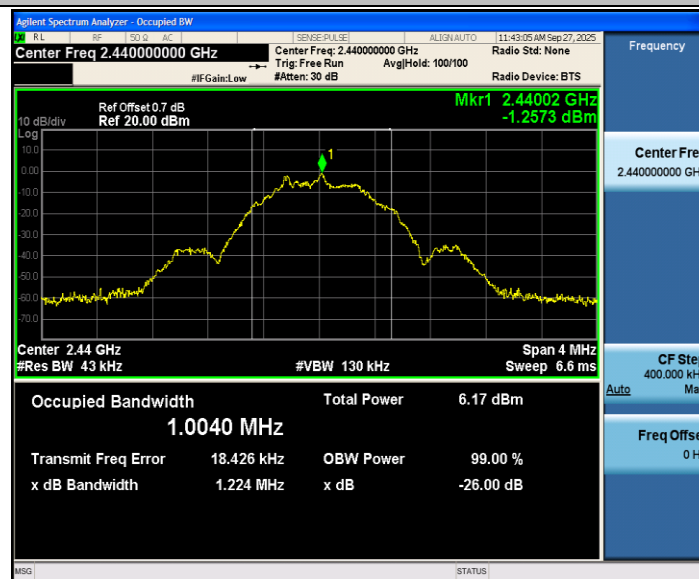
TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0034	2401.5173	2402.5207	---	---
		2440	1.0040	2439.5164	2440.5204	---	---
		2480	0.99945	2479.5203	2480.5197	---	---

Test Graphs

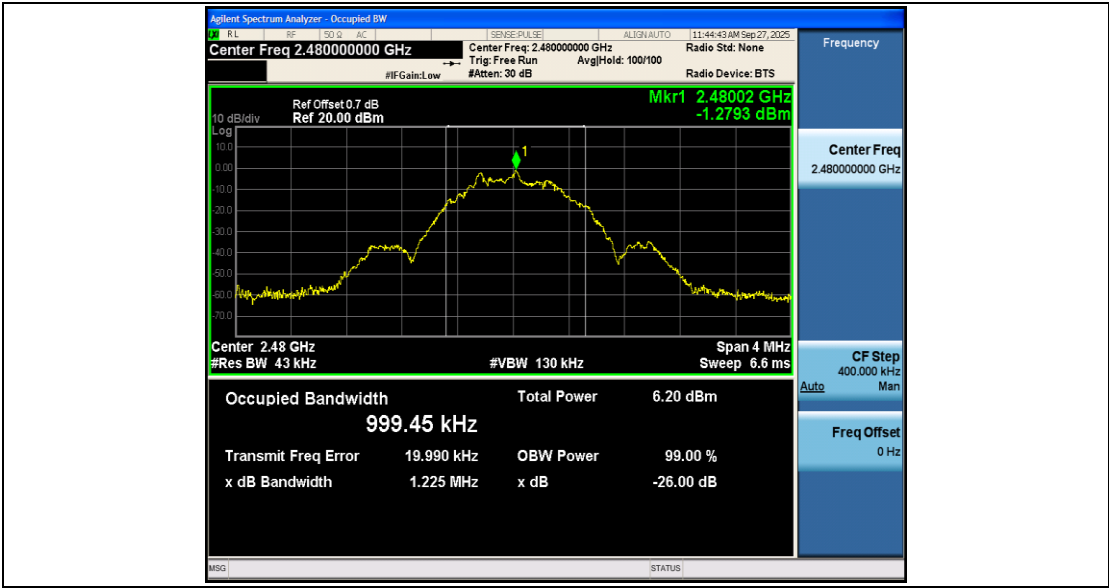
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



Appendix C: Maximum conducted output power

Test Result Peak

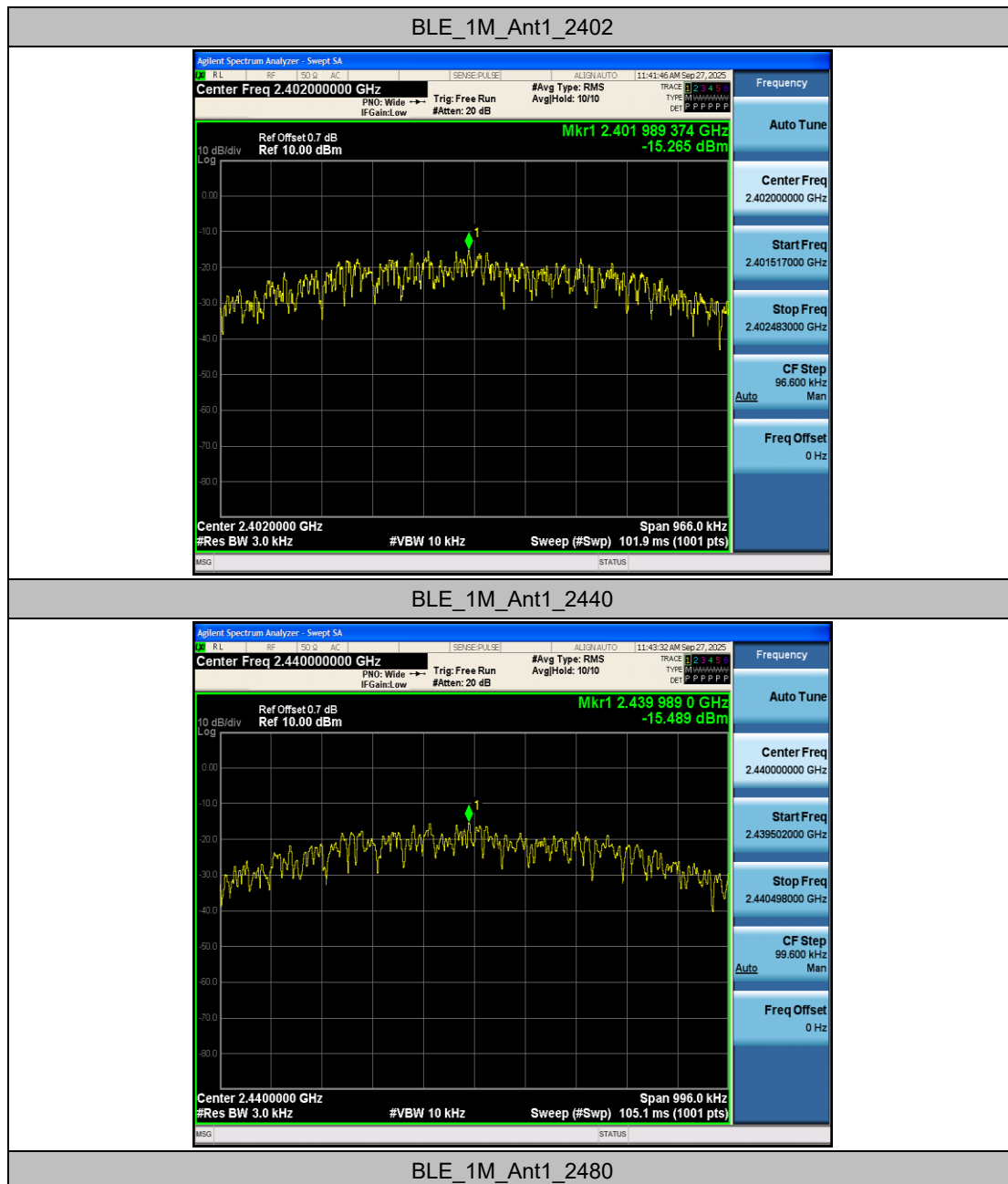
TestMode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0.35	≤30	PASS
		2440	-0.01	≤30	PASS
		2480	-0.01	≤30	PASS

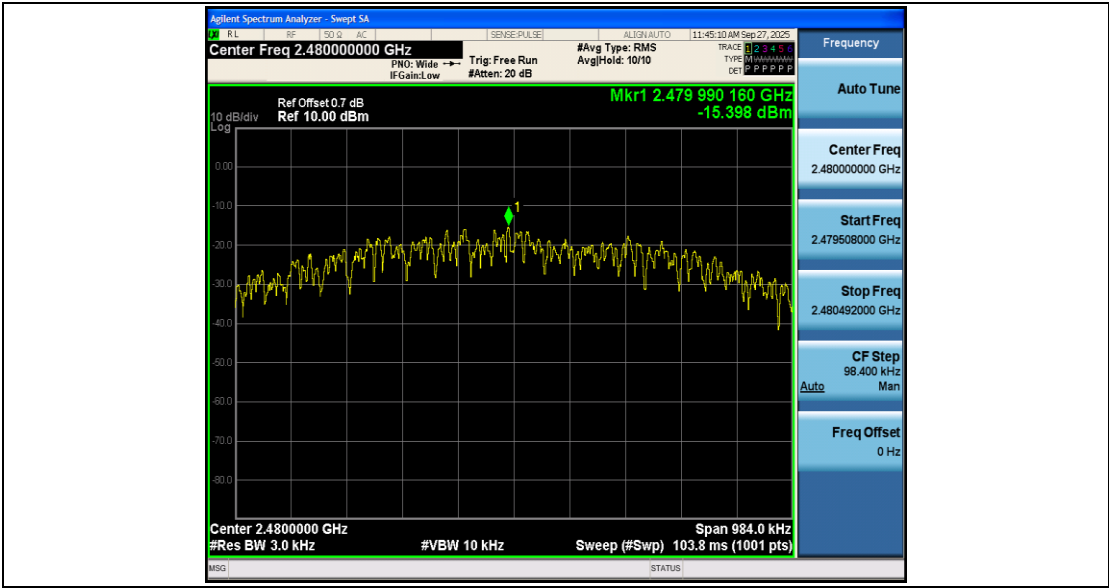
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-15.27	≤8.00	PASS
		2440	-15.49	≤8.00	PASS
		2480	-15.40	≤8.00	PASS

Test Graphs





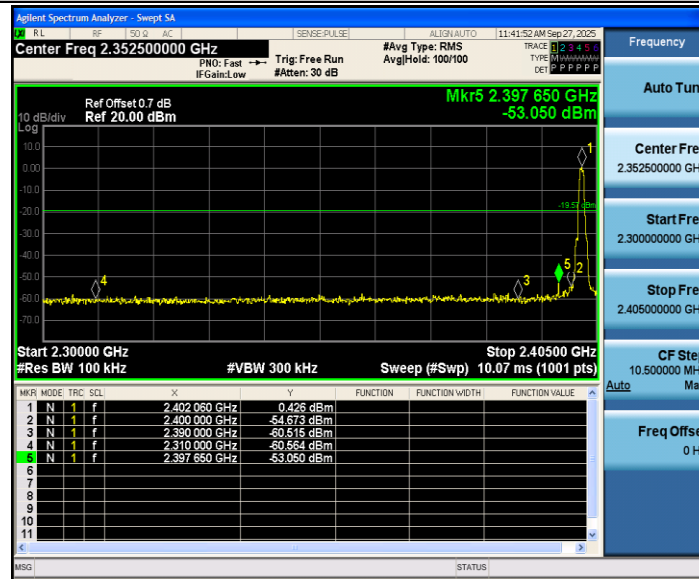
Appendix E: Band edge measurements

Test Result

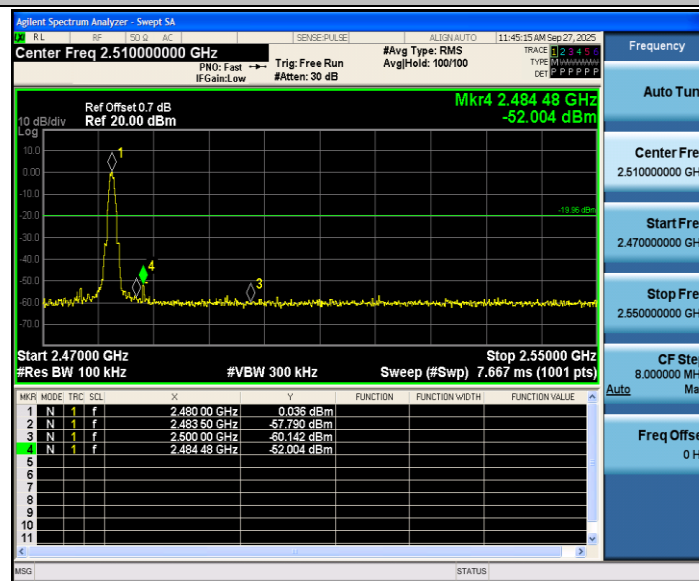
TestMod e	Antenn a	ChNam e	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdic t
BLE_1M	Ant1	Low	2402	0.43	-53.05	≤-19.57	PASS
		High	2480	0.04	-52	≤-19.96	PASS

Test Graphs

BLE_1M_Ant1_Low_2402



BLE_1M_Ant1_High_2480

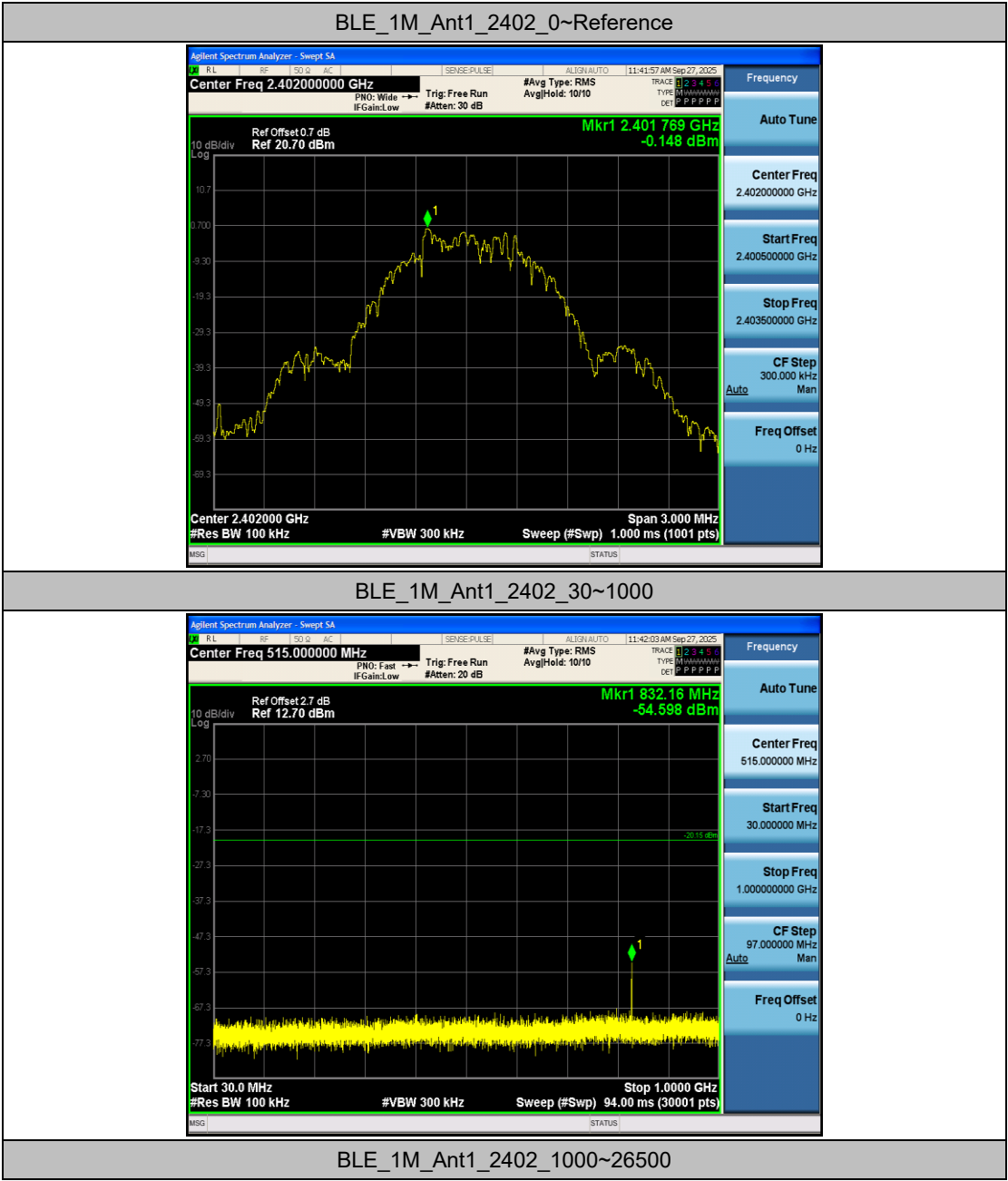


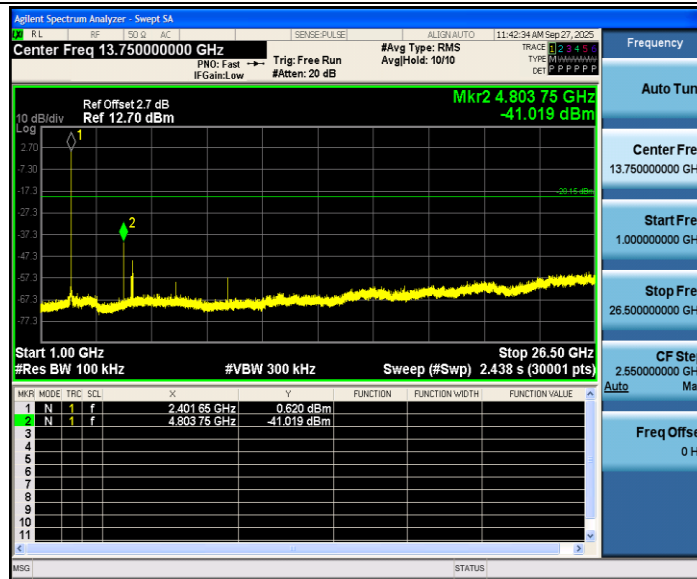
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-0.15	-0.15	---	PASS
			30~1000	-0.15	-54.6	≤-20.15	PASS
			1000~26500	-0.15	-41.02	≤-20.15	PASS
		2440	Reference	-1.48	-1.48	---	PASS
			30~1000	-1.48	-68.09	≤-21.48	PASS
			1000~26500	-1.48	-41.37	≤-21.48	PASS
		2480	Reference	-1.33	-1.33	---	PASS
			30~1000	-1.33	-49.05	≤-21.33	PASS
			1000~26500	-1.33	-42.04	≤-21.33	PASS

Test Graphs

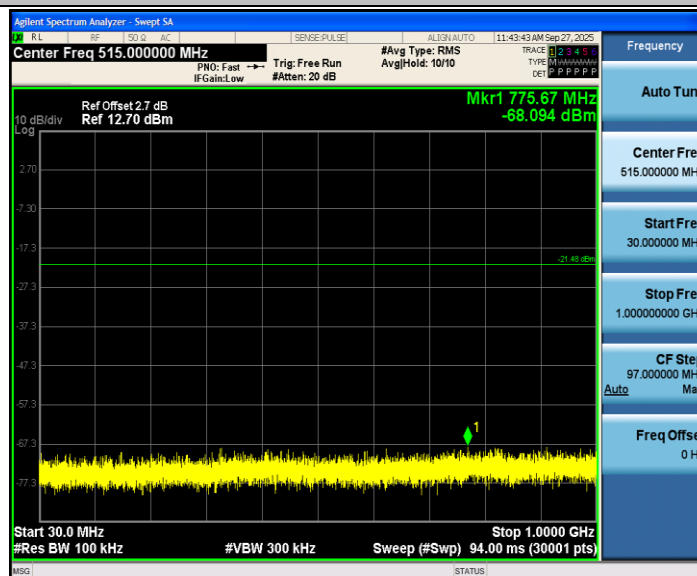




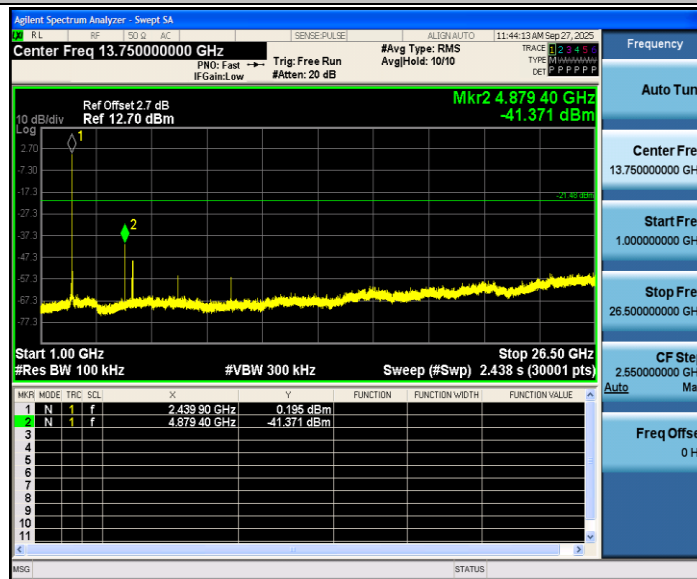
BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



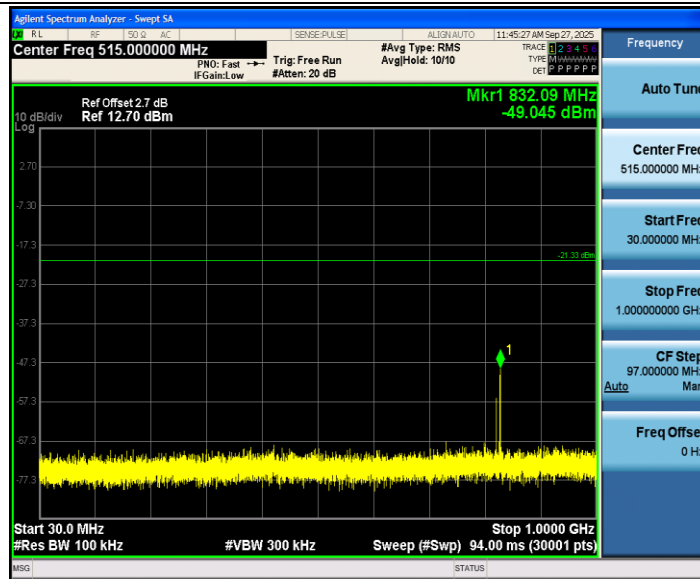
BLE_1M_Ant1_2440_1000~26500



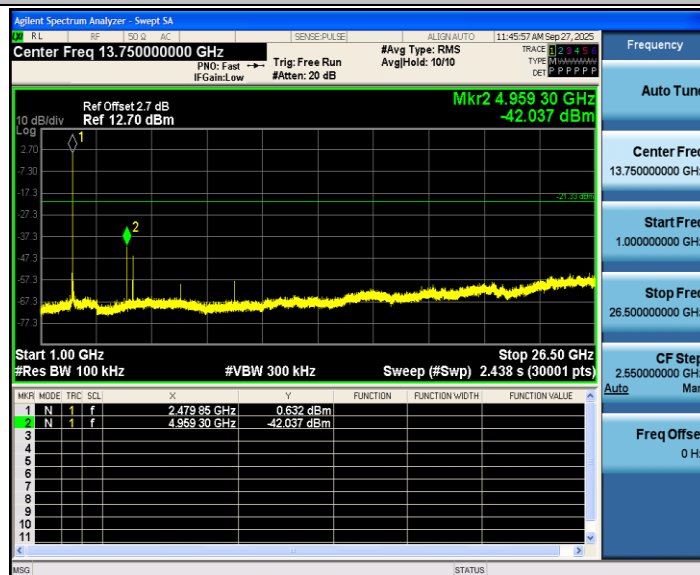
BLE_1M_Ant1_2480_0~Reference



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

