

FCC Appendix RF Test Data for BLE

FCC ID : 2BM7C-GD-82

Company : Xiamen Deyin Technology Co.,Ltd

EUT : Thermal printer

Model Number : GD-82

Report No. : CTA25091801201

Reviewed By : Eric Wang

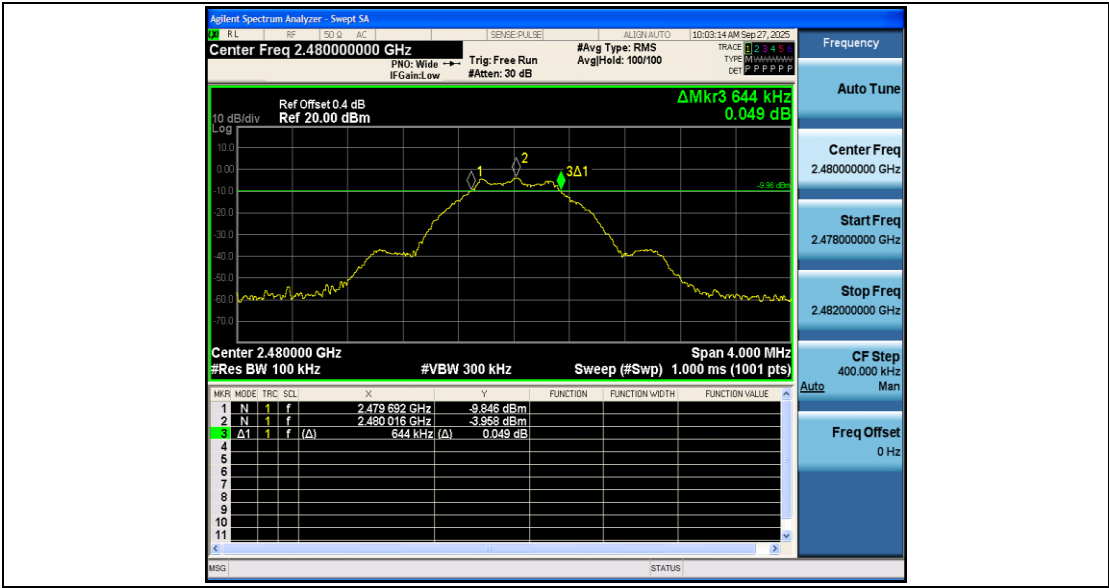
Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.648	2401.692	2402.340	0.5	PASS
		2440	0.644	2439.692	2440.336	0.5	PASS
		2480	0.644	2479.692	2480.336	0.5	PASS

Test Graphs



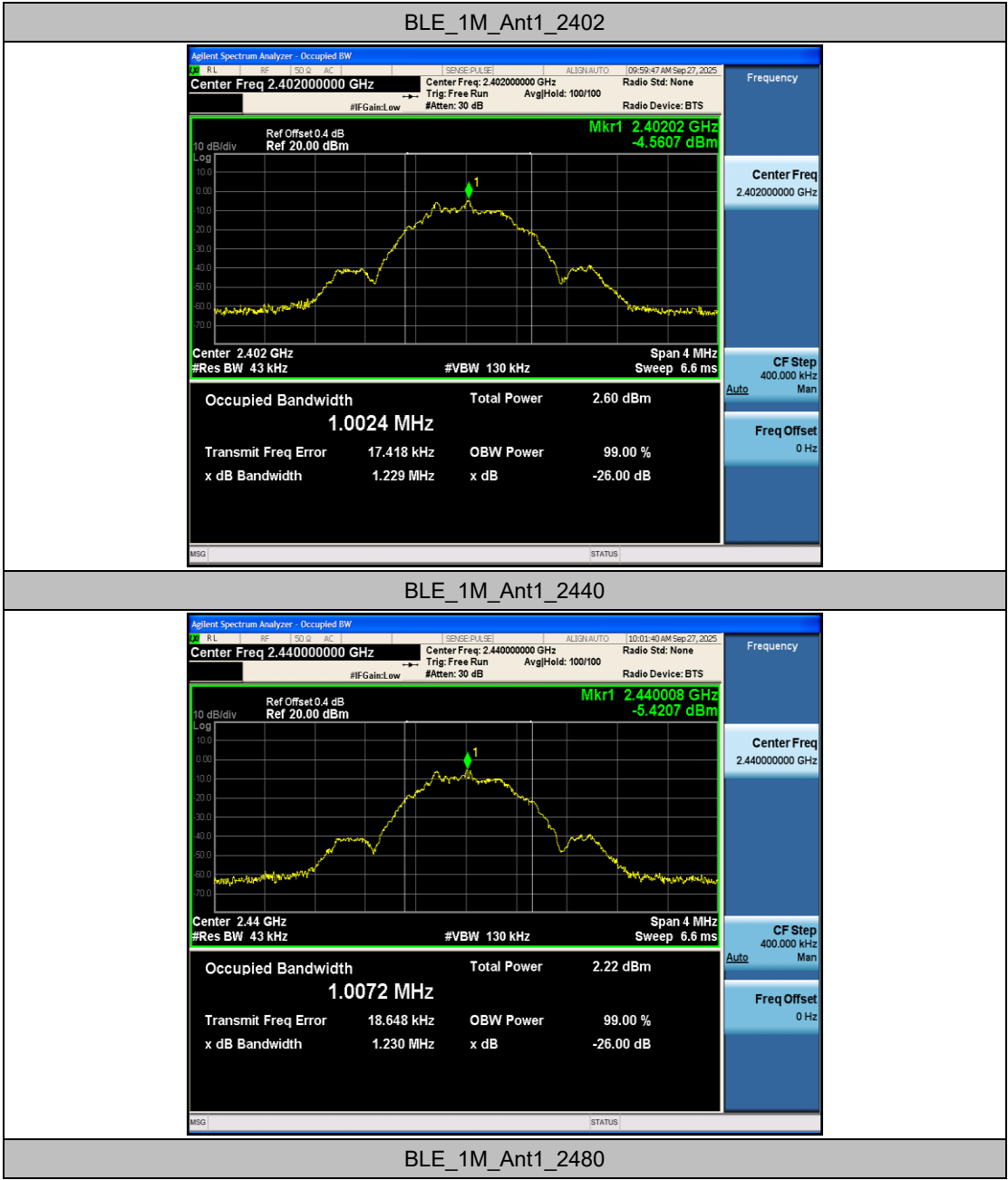


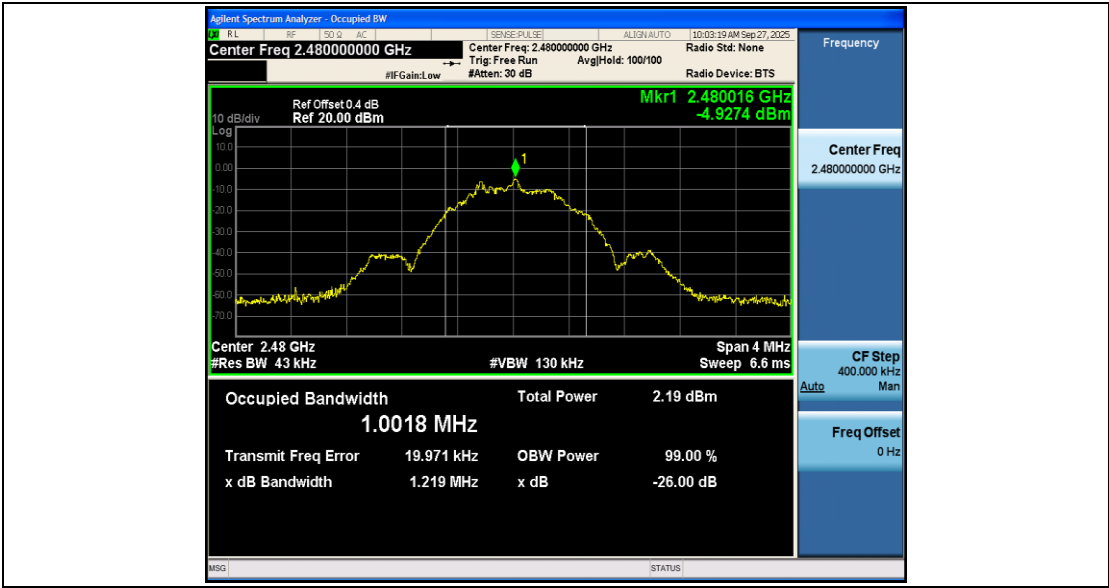
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0024	2401.5162	2402.5186	---	---
		2440	1.0072	2439.5151	2440.5223	---	---
		2480	1.0018	2479.5191	2480.5209	---	---

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	-3.50	≤30	PASS
		2440	-3.80	≤30	PASS
		2480	-3.85	≤30	PASS

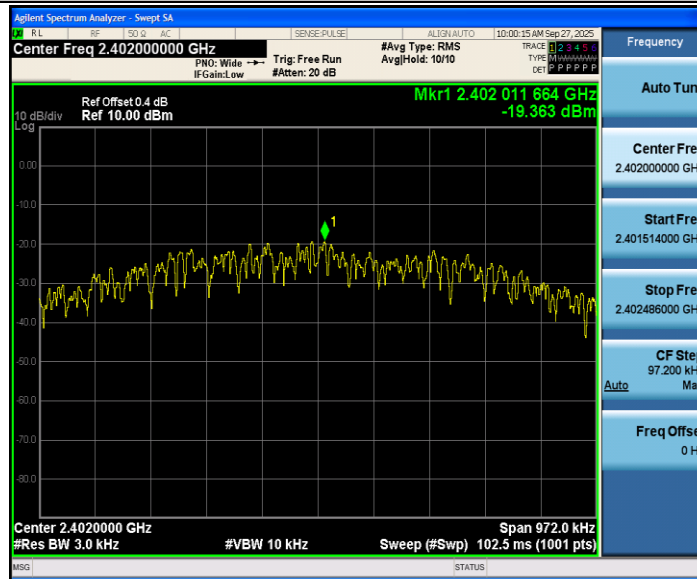
Appendix D: Maximum power spectral density

Test Result

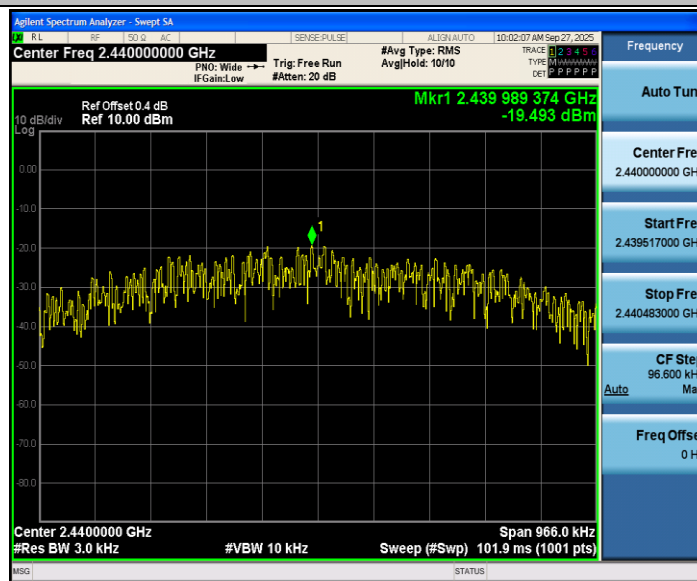
TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-19.36	≤8.00	PASS
		2440	-19.49	≤8.00	PASS
		2480	-19.46	≤8.00	PASS

Test Graphs

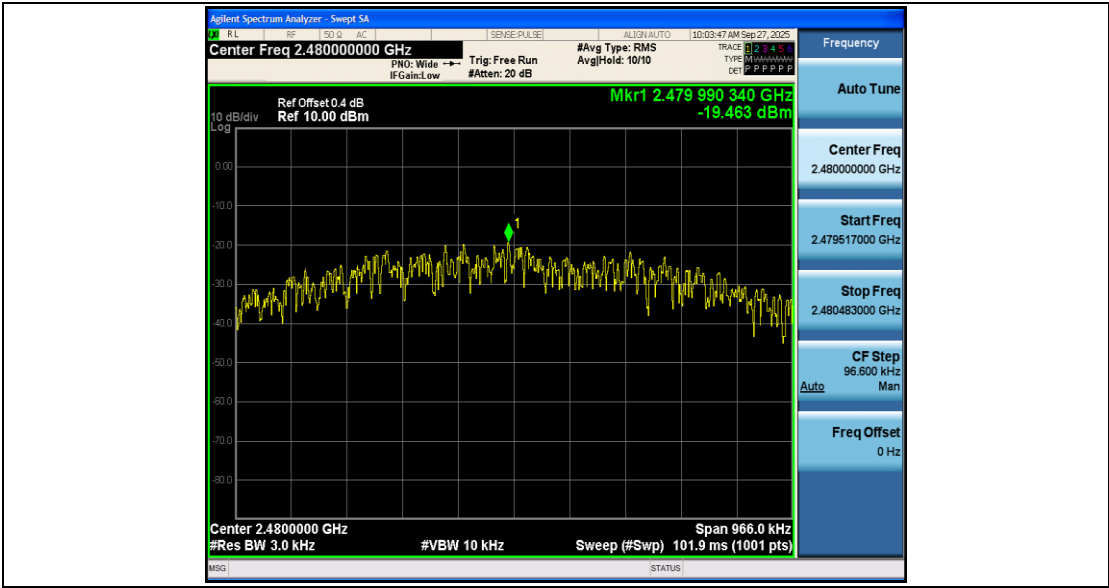
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

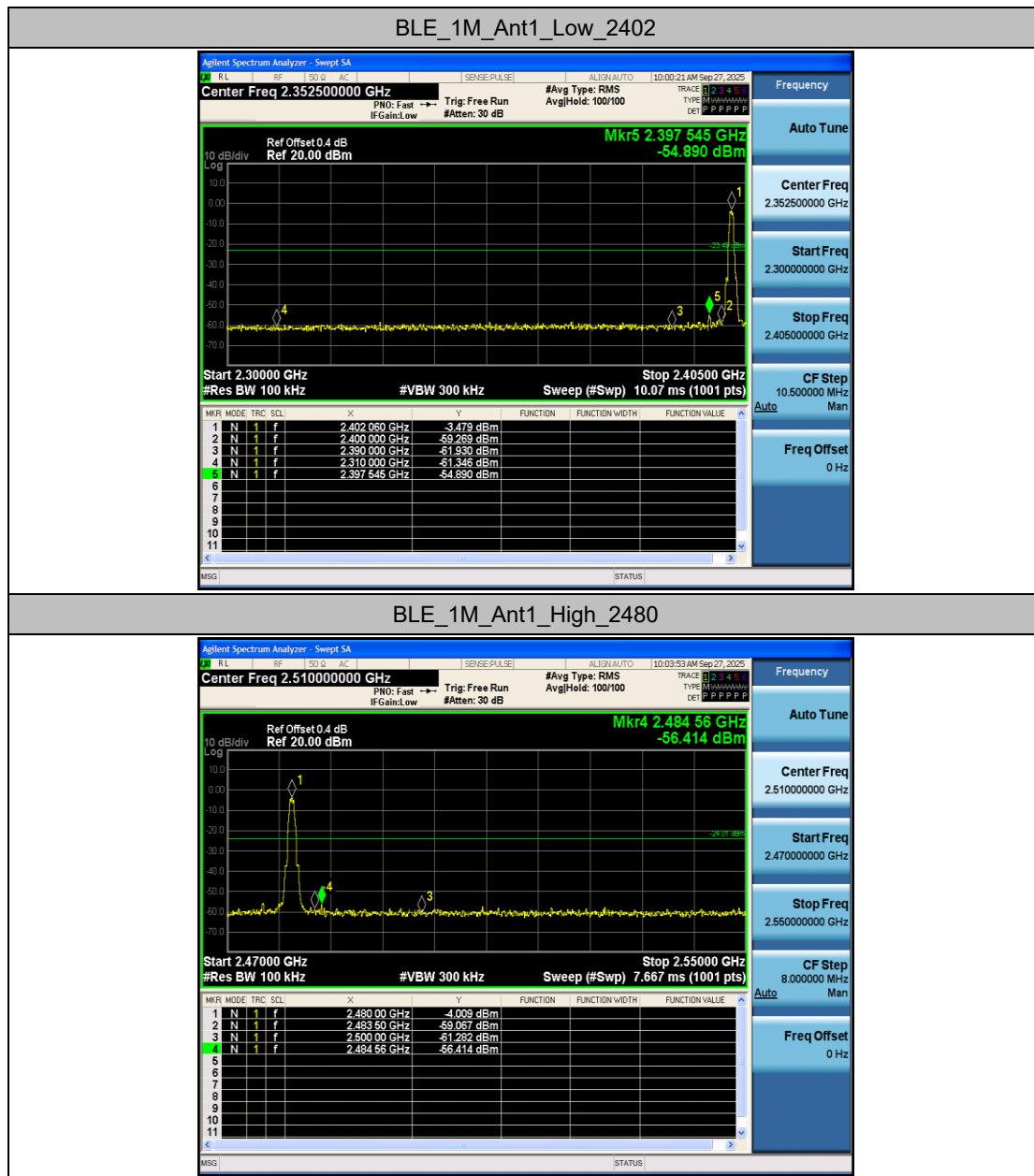


Appendix E: Band edge measurements

Test Result

TestMode	Antenna	Channel	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-3.48	-54.89	≤-23.48	PASS
		High	2480	-4.01	-56.41	≤-24.01	PASS

Test Graphs

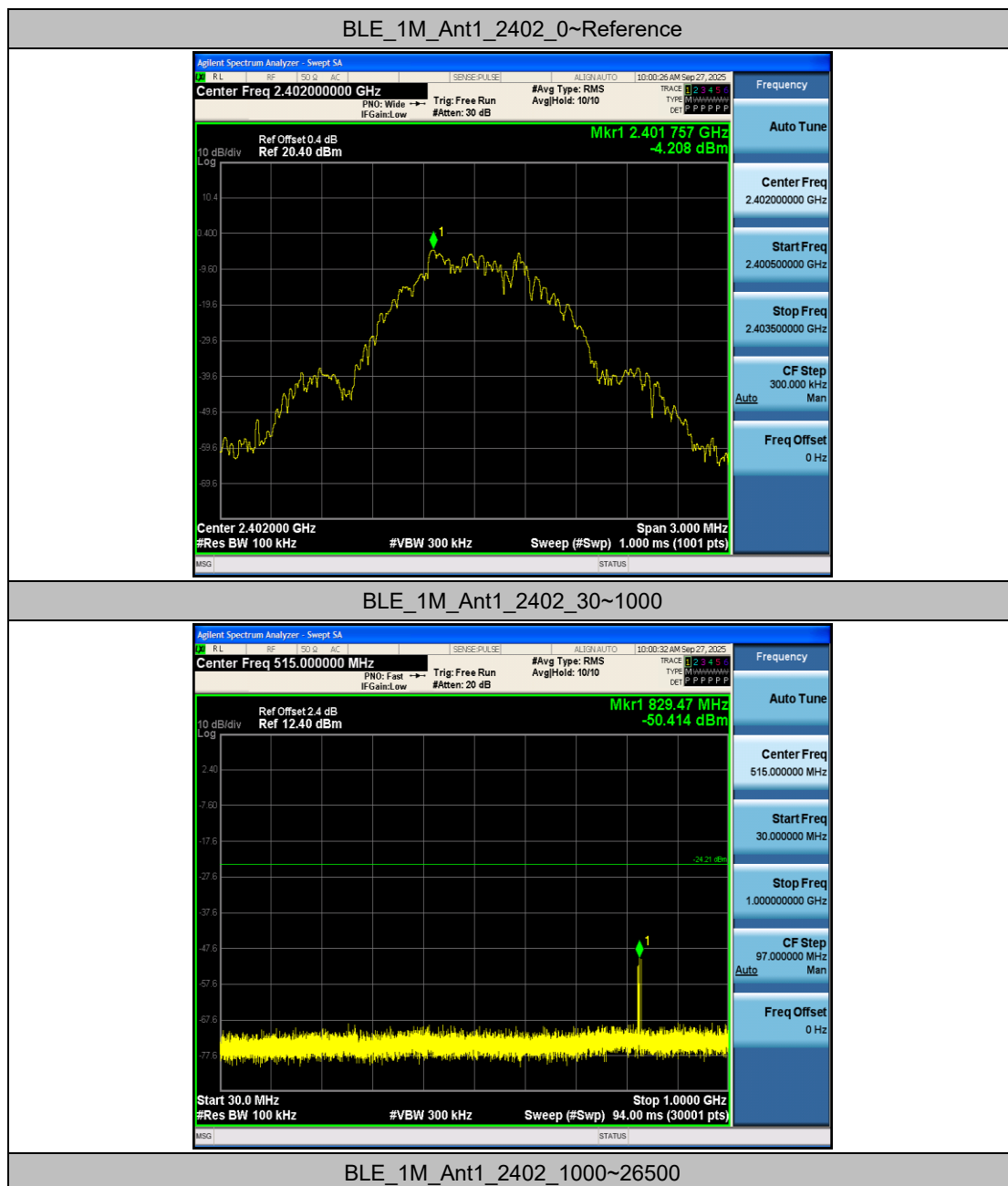


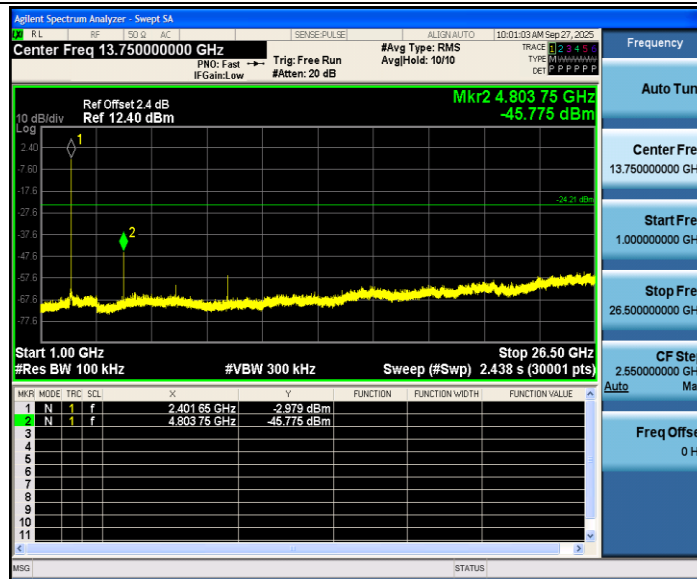
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-4.21	-4.21	---	PASS
			30~1000	-4.21	-50.41	≤-24.21	PASS
			1000~26500	-4.21	-45.78	≤-24.21	PASS
		2440	Reference	-3.91	-3.91	---	PASS
			30~1000	-3.91	-68.11	≤-23.91	PASS
			1000~26500	-3.91	-46.4	≤-23.91	PASS
		2480	Reference	-5.16	-5.16	---	PASS
			30~1000	-5.16	-67.17	≤-25.16	PASS
			1000~26500	-5.16	-48.25	≤-25.16	PASS

Test Graphs

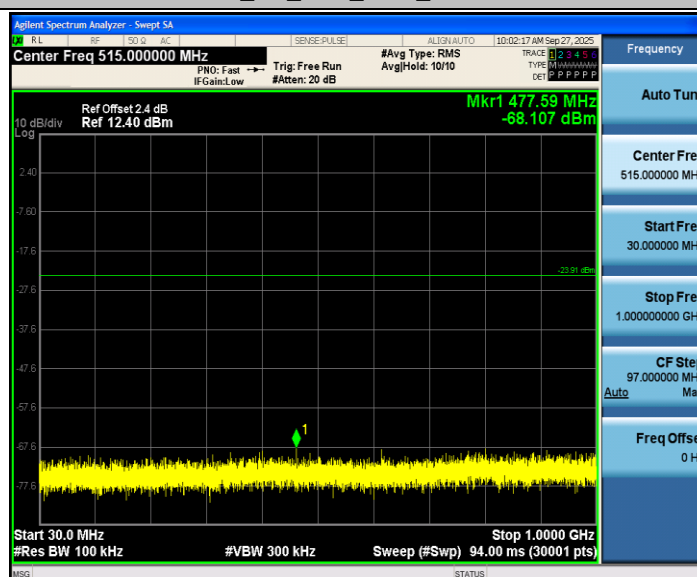




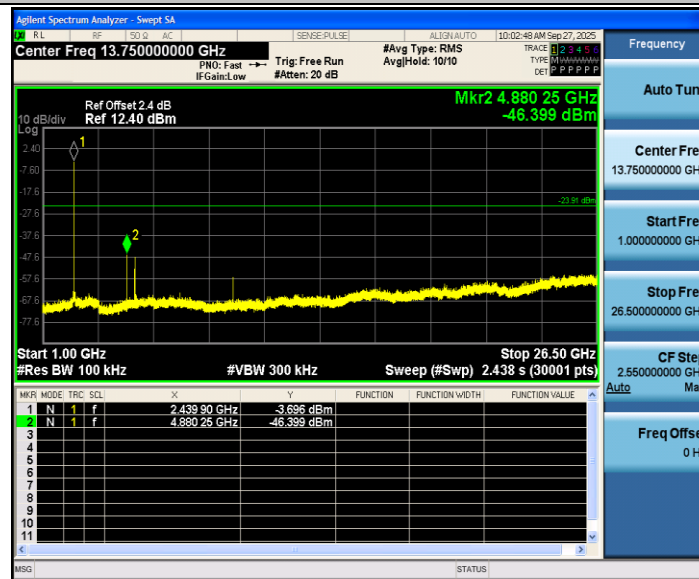
BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



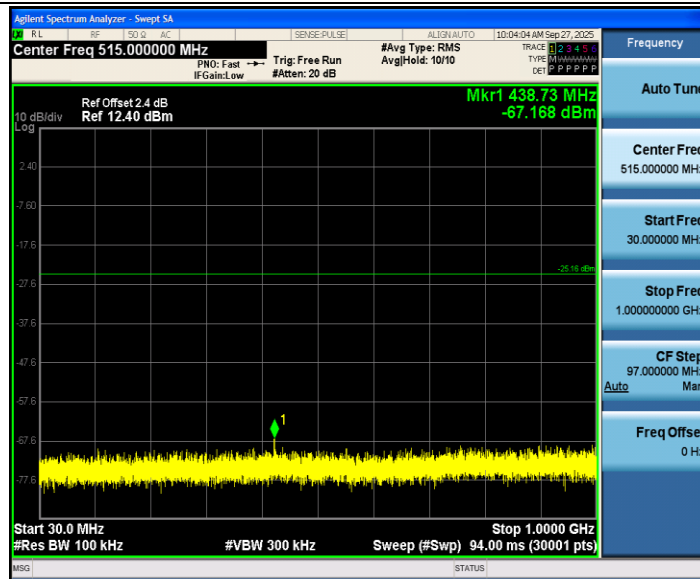
BLE_1M_Ant1_2440_1000~26500



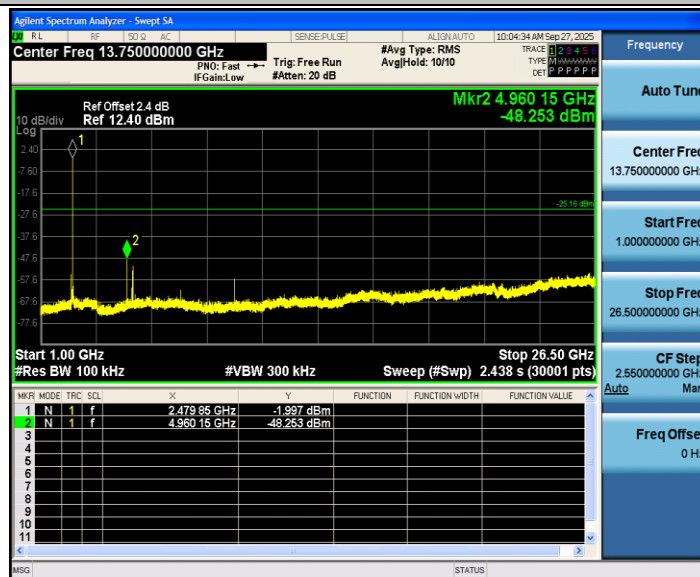
BLE_1M_Ant1_2480_0~Reference



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

